URBANTECH

SWM DESIGN CALCULATIONS - POND
Contributing Drainage Area and Land Use

Project Name: 150 Steeles Avenue East
Municipality: Town of Milton
Project No.: 21-678
Date: 27-Jan-26

Prepared by: J.P.O

POND

POND	From	To	Area [ha]	Runoff Coefficient	Imperviousness %IMP=100 X (C-0.2)/0.7	Design Requirement		
						Conveyance	Quantity	Quality
Subject Lands (Including Pond Block)			15.53	0.83	90.0	•	•	•
Honda Lands			2.56	0.90	100.0	•	•	•
Total Drainage Area (Quality Control Only)			**18.09**	**0.84**	91.4	**18.09**	**18.09**	**18.09**
Total Drainage Area (Quantity Control Only)			**18.09**	**0.84**	91.4	**18.09**	**18.09**	**18.09**
Total Drainage Area to Pond			**18.09**	**0.84**	91.4	**18.09**	**18.09**	**18.09**

URBANTECH

SWM POND DESIGN CALCULATIONS
Drawdown Time

Project Name: 150 Steeles Avenue East
Municipality: Town of Milton
Project No.: 21-678
Date: 27-Jan-26

Prepared by: J.P.O

Pond

Detention Time Calculations

$t = (0.66C_2h^{1.5}+2C_3h^{0.5})/2.75Ao$ *(MOECC Eq'n 4.11)*

t= 148983	*drawdown time in seconds*
t= 41	*drawdown time in hours*
d = 0.150	*diameter of orifice (m)*
A_0= 0.0177	*cross-sectional area of the orifice (m^2)*
h= 0.725	*maximum water elevation above orifice (m)*
$Q_{ext\ det}$ = 0.0400	*proposed extended detention release rate (m3/s)*
C_2= 1541.51	*slope coefficient from the area-depth linear regression*
C_3= 3883	*intercept from the area-depth linear regression*

Pond area-depth relationship for linear regression:

	Elevation (m)	Area (m^2)	Depth (m)
PERM POOL	201.70	3883	0.00
EXT DET	202.50	5116	0.80

The drawdown time for the Pond is 41.4 hours (1.7 days)

URBANTECH

SWM DESIGN CALCULATIONS
EMERGENCY SPILLWAY WEIR

Project Name: 150 Steeles Avenue East
Municipality: Town of Milton
Project No.: 21-678
Date: 2025-03-11

Prepared by: J.P.O

POND

Input Parameters:

Side Slope, S_1	12	:1
Side Slope, S_2	12	:1
Spillway Invert	204.70	m
Water Level	205.0	m
Flow Depth, H	0.3	m
Bottom Width, B:	30.0	m

Weir equation:	**$Q = BxC_dxH^{3/2} + SxC_dxH^{5/2}$**
	C_d = 1.5
where:	*Q=flow rate (m3/s)*
	H= head on the weir (m)
	B=width of the weir (m)
	S = side slopes of weir (H:V)

Computed Values:

Capacity, Q at 205m	**8.28**	m^3/s
Emergency Flow Required via Spillway	**7.63**	m^3/s

The proposed emergency spillway provides sufficient capacity.

```
================================================================================
=========================

       V    V   I    SSSSS  U   U    A    L              (v 6.2.2019)
       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

        OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
       O   O    T      T    H   H   Y Y   MM MM  O   O
       O   O    T      T    H   H    Y    M   M  O   O
        OOO     T      T    H   H    Y    M   M   OOO
Developed and Distributed by Smart City Water Inc
Copyright 2007 - 2022 Smart City Water Inc
All rights reserved.


                  *****  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\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\1c1582
7f-23ea-4111-a027-3d89b26e205c\scenari
  Summary filename:
C:\Users\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\1c1582
7f-23ea-4111-a027-3d89b26e205c\scenari


DATE: 01-27-2026                          TIME: 01:43:14

USER:


COMMENTS: _____________________________________________________________


--------------------------------------------------------------------------------
-------------------------
  ************************************************
  ** SIMULATION : 1 - 25MM4HRC_10min Edited 201 **
  ************************************************


--------------------
|    READ STORM    |    Filename: C:\Users\kong\AppD
|                  |              ata\Local\Temp\
|                  |              7ecefdc7-37f7-4b7e-b187-d3f313fb54da\cb44d379
| Ptotal= 25.00 mm |    Comments: 25MM4HRC_10min Edited 2012
--------------------
                TIME    RAIN |  TIME    RAIN |'  TIME    RAIN |  TIME    RAIN
                 hrs   mm/hr |   hrs   mm/hr |'   hrs   mm/hr |   hrs   mm/hr
               0.00    2.07 |  1.00    5.70 |  2.00    5.19 |  3.00    2.80
               0.17    2.27 |  1.17   10.78 |  2.17    4.47 |  3.17    2.62
               0.33    2.52 |  1.33   50.21 |  2.33    3.95 |  3.33    2.48
               0.50    2.88 |  1.50   13.37 |  2.50    3.56 |  3.50    2.35
               0.67    3.38 |  1.67    8.29 |  2.67    3.25 |  3.67    2.23
               0.83    4.18 |  1.83    6.30 |  2.83    3.01 |  3.83    2.14

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

--------------------
| CALIB            |
| STANDHYD (  0010)|   Area    (ha)=  15.53
|ID= 1 DT= 1.0 min |   Total Imp(%)=  90.00   Dir. Conn.(%)=  90.00
--------------------
                              IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=      13.98         1.55
     Dep. Storage     (mm)=       1.00         5.00
     Average Slope     (%)=       1.00         2.00
     Length            (m)=     321.77        40.00
     Mannings n            =      0.013        0.250

         NOTE:  RAINFALL WAS TRANSFORMED TO   1.0 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
               0.017    2.07 | 1.017    5.70 | 2.017    5.19 |  3.02    2.80
               0.033    2.07 | 1.033    5.70 | 2.033    5.19 |  3.03    2.80
               0.050    2.07 | 1.050    5.70 | 2.050    5.19 |  3.05    2.80
               0.067    2.07 | 1.067    5.70 | 2.067    5.19 |  3.07    2.80
               0.083    2.07 | 1.083    5.70 | 2.083    5.19 |  3.08    2.80
               0.100    2.07 | 1.100    5.70 | 2.100    5.19 |  3.10    2.80
               0.117    2.07 | 1.117    5.70 | 2.117    5.19 |  3.12    2.80
               0.133    2.07 | 1.133    5.70 | 2.133    5.19 |  3.13    2.80
               0.150    2.07 | 1.150    5.70 | 2.150    5.19 |  3.15    2.80
               0.167    2.07 | 1.167    5.70 | 2.167    5.19 |  3.17    2.80
               0.183    2.27 | 1.183   10.78 | 2.183    4.47 |  3.18    2.62
               0.200    2.27 | 1.200   10.78 | 2.200    4.47 |  3.20    2.62
               0.217    2.27 | 1.217   10.78 | 2.217    4.47 |  3.22    2.62
               0.233    2.27 | 1.233   10.78 | 2.233    4.47 |  3.23    2.62
               0.250    2.27 | 1.250   10.78 | 2.250    4.47 |  3.25    2.62
               0.267    2.27 | 1.267   10.78 | 2.267    4.47 |  3.27    2.62
               0.283    2.27 | 1.283   10.78 | 2.283    4.47 |  3.28    2.62
               0.300    2.27 | 1.300   10.78 | 2.300    4.47 |  3.30    2.62
               0.317    2.27 | 1.317   10.78 | 2.317    4.47 |  3.32    2.62
               0.333    2.27 | 1.333   10.78 | 2.333    4.47 |  3.33    2.62
               0.350    2.52 | 1.350   50.21 | 2.350    3.95 |  3.35    2.48
               0.367    2.52 | 1.367   50.21 | 2.367    3.95 |  3.37    2.48
               0.383    2.52 | 1.383   50.21 | 2.383    3.95 |  3.38    2.48
               0.400    2.52 | 1.400   50.21 | 2.400    3.95 |  3.40    2.48
               0.417    2.52 | 1.417   50.21 | 2.417    3.95 |  3.42    2.48
               0.433    2.52 | 1.433   50.21 | 2.433    3.95 |  3.43    2.48
               0.450    2.52 | 1.450   50.21 | 2.450    3.95 |  3.45    2.48
               0.467    2.52 | 1.467   50.21 | 2.467    3.95 |  3.47    2.48
               0.483    2.52 | 1.483   50.21 | 2.483    3.95 |  3.48    2.48
               0.500    2.52 | 1.500   50.21 | 2.500    3.95 |  3.50    2.48
               0.517    2.88 | 1.517   13.37 | 2.517    3.56 |  3.52    2.35
               0.533    2.88 | 1.533   13.37 | 2.533    3.56 |  3.53    2.35
               0.550    2.88 | 1.550   13.37 | 2.550    3.56 |  3.55    2.35
               0.567    2.88 | 1.567   13.37 | 2.567    3.56 |  3.57    2.35
               0.583    2.88 | 1.583   13.37 | 2.583    3.56 |  3.58    2.35
               0.600    2.88 | 1.600   13.37 | 2.600    3.56 |  3.60    2.35
               0.617    2.88 | 1.617   13.37 | 2.617    3.56 |  3.62    2.35
               0.633    2.88 | 1.633   13.37 | 2.633    3.56 |  3.63    2.35
               0.650    2.88 | 1.650   13.37 | 2.650    3.56 |  3.65    2.35
               0.667    2.88 | 1.667   13.37 | 2.667    3.56 |  3.67    2.35
               0.683    3.38 | 1.683    8.29 | 2.683    3.25 |  3.68    2.23
               0.700    3.38 | 1.700    8.29 | 2.700    3.25 |  3.70    2.23
               0.717    3.38 | 1.717    8.29 | 2.717    3.25 |  3.72    2.23
               0.733    3.38 | 1.733    8.29 | 2.733    3.25 |  3.73    2.23
               0.750    3.38 | 1.750    8.29 | 2.750    3.25 |  3.75    2.23
               0.767    3.38 | 1.767    8.29 | 2.767    3.25 |  3.77    2.23
               0.783    3.38 | 1.783    8.29 | 2.783    3.25 |  3.78    2.23
               0.800    3.38 | 1.800    8.29 | 2.800    3.25 |  3.80    2.23
               0.817    3.38 | 1.817    8.29 | 2.817    3.25 |  3.82    2.23
               0.833    3.38 | 1.833    8.29 | 2.833    3.25 |  3.83    2.23
               0.850    4.17 | 1.850    6.30 | 2.850    3.01 |  3.85    2.14
               0.867    4.18 | 1.867    6.30 | 2.867    3.01 |  3.87    2.14
               0.883    4.18 | 1.883    6.30 | 2.883    3.01 |  3.88    2.14
               0.900    4.18 | 1.900    6.30 | 2.900    3.01 |  3.90    2.14
               0.917    4.18 | 1.917    6.30 | 2.917    3.01 |  3.92    2.14
               0.933    4.18 | 1.933    6.30 | 2.933    3.01 |  3.93    2.14
               0.950    4.18 | 1.950    6.30 | 2.950    3.01 |  3.95    2.14
               0.967    4.18 | 1.967    6.30 | 2.967    3.01 |  3.97    2.14
               0.983    4.18 | 1.983    6.30 | 2.983    3.01 |  3.98    2.14
               1.000    4.18 | 2.000    6.30 | 3.000    3.01 |  4.00    2.14

    Max.Eff.Inten.(mm/hr)=      50.21         9.18
              over (min)        7.00        11.00
    Storage Coeff.  (min)=      6.78 (ii)   10.65 (ii)
    Unit Hyd. Tpeak (min)=      7.00        11.00
    Unit Hyd. peak  (cms)=      0.17         0.11
                                                    *TOTALS*
    PEAK FLOW       (cms)=      1.43         0.02         1.448 (iii)
    TIME TO PEAK    (hrs)=      1.55         1.67          1.55
    RUNOFF VOLUME    (mm)=     24.00         6.17         22.21
    TOTAL RAINFALL   (mm)=     25.00        25.00         25.00
    RUNOFF COEFFICIENT   =      0.96         0.25          0.89


      (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
           CN*  =  85.0    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            |
| STANDHYD (  0013)|   Area    (ha)=   2.56
|ID= 1 DT= 1.0 min |   Total Imp(%)=  99.00   Dir. Conn.(%)=  99.00
--------------------
                              IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=       2.53         0.03
     Dep. Storage     (mm)=       1.00         5.00
     Average Slope     (%)=       1.00         2.00
     Length            (m)=     130.64        40.00
     Mannings n            =      0.013        0.250

         NOTE:  RAINFALL WAS TRANSFORMED TO   1.0 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
               0.017    2.07 | 1.017    5.70 | 2.017    5.19 |  3.02    2.80
               0.033    2.07 | 1.033    5.70 | 2.033    5.19 |  3.03    2.80
               0.050    2.07 | 1.050    5.70 | 2.050    5.19 |  3.05    2.80
               0.067    2.07 | 1.067    5.70 | 2.067    5.19 |  3.07    2.80
               0.083    2.07 | 1.083    5.70 | 2.083    5.19 |  3.08    2.80
               0.100    2.07 | 1.100    5.70 | 2.100    5.19 |  3.10    2.80
               0.117    2.07 | 1.117    5.70 | 2.117    5.19 |  3.12    2.80
               0.133    2.07 | 1.133    5.70 | 2.133    5.19 |  3.13    2.80
               0.150    2.07 | 1.150    5.70 | 2.150    5.19 |  3.15    2.80
               0.167    2.07 | 1.167    5.70 | 2.167    5.19 |  3.17    2.80
               0.183    2.27 | 1.183   10.78 | 2.183    4.47 |  3.18    2.62
               0.200    2.27 | 1.200   10.78 | 2.200    4.47 |  3.20    2.62
               0.217    2.27 | 1.217   10.78 | 2.217    4.47 |  3.22    2.62
               0.233    2.27 | 1.233   10.78 | 2.233    4.47 |  3.23    2.62
               0.250    2.27 | 1.250   10.78 | 2.250    4.47 |  3.25    2.62
               0.267    2.27 | 1.267   10.78 | 2.267    4.47 |  3.27    2.62
               0.283    2.27 | 1.283   10.78 | 2.283    4.47 |  3.28    2.62
               0.300    2.27 | 1.300   10.78 | 2.300    4.47 |  3.30    2.62
               0.317    2.27 | 1.317   10.78 | 2.317    4.47 |  3.32    2.62
```

0.333	2.27	1.333	10.78	2.333	4.47	3.33	2.62
0.350	2.52	1.350	50.21	2.350	3.95	3.35	2.48
0.367	2.52	1.367	50.21	2.367	3.95	3.37	2.48
0.383	2.52	1.383	50.21	2.383	3.95	3.38	2.48
0.400	2.52	1.400	50.21	2.400	3.95	3.40	2.48
0.417	2.52	1.417	50.21	2.417	3.95	3.42	2.48
0.433	2.52	1.433	50.21	2.433	3.95	3.43	2.48
0.450	2.52	1.450	50.21	2.450	3.95	3.45	2.48
0.467	2.52	1.467	50.21	2.467	3.95	3.47	2.48
0.483	2.52	1.483	50.21	2.483	3.95	3.48	2.48
0.500	2.52	1.500	50.21	2.500	3.95	3.50	2.48
0.517	2.88	1.517	13.37	2.517	3.56	3.52	2.35
0.533	2.88	1.533	13.37	2.533	3.56	3.53	2.35
0.550	2.88	1.550	13.37	2.550	3.56	3.55	2.35
0.567	2.88	1.567	13.37	2.567	3.56	3.57	2.35
0.583	2.88	1.583	13.37	2.583	3.56	3.58	2.35
0.600	2.88	1.600	13.37	2.600	3.56	3.60	2.35
0.617	2.88	1.617	13.37	2.617	3.56	3.62	2.35
0.633	2.88	1.633	13.37	2.633	3.56	3.63	2.35
0.650	2.88	1.650	13.37	2.650	3.56	3.65	2.35
0.667	2.88	1.667	13.37	2.667	3.56	3.67	2.35
0.683	3.38	1.683	8.29	2.683	3.25	3.68	2.23
0.700	3.38	1.700	8.29	2.700	3.25	3.70	2.23
0.717	3.38	1.717	8.29	2.717	3.25	3.72	2.23
0.733	3.38	1.733	8.29	2.733	3.25	3.73	2.23
0.750	3.38	1.750	8.29	2.750	3.25	3.75	2.23
0.767	3.38	1.767	8.29	2.767	3.25	3.77	2.23
0.783	3.38	1.783	8.29	2.783	3.25	3.78	2.23
0.800	3.38	1.800	8.29	2.800	3.25	3.80	2.23
0.817	3.38	1.817	8.29	2.817	3.25	3.82	2.23
0.833	3.38	1.833	8.29	2.833	3.25	3.83	2.23
0.850	4.17	1.850	6.30	2.850	3.01	3.85	2.14
0.867	4.18	1.867	6.30	2.867	3.01	3.87	2.14
0.883	4.18	1.883	6.30	2.883	3.01	3.88	2.14
0.900	4.18	1.900	6.30	2.900	3.01	3.90	2.14
0.917	4.18	1.917	6.30	2.917	3.01	3.92	2.14
0.933	4.18	1.933	6.30	2.933	3.01	3.93	2.14
0.950	4.18	1.950	6.30	2.950	3.01	3.95	2.14
0.967	4.18	1.967	6.30	2.967	3.01	3.97	2.14
0.983	4.18	1.983	6.30	2.983	3.01	3.98	2.14
1.000	4.18	2.000	6.30	3.000	3.01	4.00	2.14

Max.Eff.Inten.(mm/hr)=	50.21	9.18	
over (min)	5.00	6.00	
Storage Coeff. (min)=	3.95 (ii)	5.43 (ii)	
Unit Hyd. Tpeak (min)=	5.00	6.00	
Unit Hyd. peak (cms)=	0.26	0.20	
			TOTALS
PEAK FLOW (cms)=	0.31	0.00	0.313 (iii)
TIME TO PEAK (hrs)=	1.52	1.57	1.52
RUNOFF VOLUME (mm)=	24.00	6.17	23.82
TOTAL RAINFALL (mm)=	25.00	25.00	25.00
RUNOFF COEFFICIENT =	0.96	0.25	0.95

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 85.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0012)		AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3		(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0010):		15.53	1.448	1.55	22.21
+ ID2= 2 (0013):		2.56	0.313	1.52	23.82
ID = 3 (0012):		18.09	1.746	1.53	22.44

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

RESERVOIR(0011)	OVERFLOW IS OFF			
IN= 2---> OUT= 1				
DT= 1.0 min	OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
	0.0000	0.0000	2.8110	0.4813
	0.0590	0.3542	3.2550	0.5511
	1.5560	0.3695	4.0320	0.5885
	2.2770	0.4312	4.6420	0.6202

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0012)	18.090	1.746	1.53	22.44
OUTFLOW: ID= 1 (0011)	18.090	0.061	4.12	19.02

PEAK FLOW REDUCTION [Qout/Qin](%)= 3.51
TIME SHIFT OF PEAK FLOW (min)=155.00
MAXIMUM STORAGE USED (ha.m.)= 0.3542

V V I SSSSS U U A L (v 6.2.2019)
V V I SS U U A A L
V V I SS U U AAAAA L

V V I SSSSS U U A L
VV I SSSSS UUUUU A A LLLLL

OOO TTTTT TTTTT H H Y Y M M OOO TM
O O T T H H Y Y MM MM O O
O O T T H H Y M M O O
OOO T T H H Y M M OOO

***** 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\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\0df9a5f6-866f-41de-b2e6-c5a14d7b13e0\scenari
Summary filename:
C:\Users\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\0df9a5f6-866f-41de-b2e6-c5a14d7b13e0\scenari

DATE: 01-27-2026 TIME: 01:43:13

USER:

COMMENTS: _____

** SIMULATION : 2 - 2-Year 24hr Chic - Milton **

CHICAGO STORM	IDF curve parameters: A= 779.000
Ptotal= 47.70 mm	B= 6.000
	C= 0.821

used in: INTENSITY = A / (t + B)^C

Duration of storm = 24.00 hrs
Storm time step = 10.00 min
Time to peak ratio = 0.33

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.00	0.37	6.00	1.29	12.00	1.14	18.00	0.53
0.17	0.38	6.17	1.41	12.17	1.10	18.17	0.52
0.33	0.38	6.33	1.55	12.33	1.06	18.33	0.52
0.50	0.39	6.50	1.73	12.50	1.03	18.50	0.51
0.67	0.40	6.67	1.96	12.67	1.00	18.67	0.50
0.83	0.41	6.83	2.26	12.83	0.97	18.83	0.50
1.00	0.42	7.00	2.70	13.00	0.94	19.00	0.49
1.17	0.42	7.17	3.37	13.17	0.92	19.17	0.48
1.33	0.43	7.33	4.53	13.33	0.89	19.33	0.48
1.50	0.44	7.50	7.13	13.50	0.87	19.50	0.47
1.67	0.45	7.67	18.18	13.67	0.85	19.67	0.47
1.83	0.46	7.83	80.06	13.83	0.83	19.83	0.46
2.00	0.47	8.00	24.18	14.00	0.81	20.00	0.46
2.17	0.49	8.17	12.21	14.17	0.79	20.17	0.45
2.33	0.50	8.33	8.15	14.33	0.78	20.33	0.45
2.50	0.51	8.50	6.13	14.50	0.76	20.50	0.44
2.67	0.53	8.67	4.94	14.67	0.74	20.67	0.44
2.83	0.54	8.83	4.14	14.83	0.73	20.83	0.43
3.00	0.56	9.00	3.58	15.00	0.71	21.00	0.43
3.17	0.57	9.17	3.16	15.17	0.70	21.17	0.42
3.33	0.59	9.33	2.83	15.33	0.69	21.33	0.42
3.50	0.61	9.50	2.57	15.50	0.67	21.50	0.41
3.67	0.63	9.67	2.36	15.67	0.66	21.67	0.41
3.83	0.65	9.83	2.18	15.83	0.65	21.83	0.41
4.00	0.68	10.00	2.02	16.00	0.64	22.00	0.40
4.17	0.71	10.17	1.89	16.17	0.63	22.17	0.40
4.33	0.73	10.33	1.78	16.33	0.62	22.33	0.39
4.50	0.77	10.50	1.68	16.50	0.61	22.50	0.39
4.67	0.80	10.67	1.59	16.67	0.60	22.67	0.39
4.83	0.84	10.83	1.51	16.83	0.59	22.83	0.38
5.00	0.88	11.00	1.44	17.00	0.58	23.00	0.38
5.17	0.93	11.17	1.38	17.17	0.57	23.17	0.38
5.33	0.98	11.33	1.32	17.33	0.56	23.33	0.37
5.50	1.04	11.50	1.27	17.50	0.55	23.50	0.37
5.67	1.12	11.67	1.22	17.67	0.55	23.67	0.37
5.83	1.20	11.83	1.18	17.83	0.54	23.83	0.36

CALIB			
STANDHYD (0010)	Area (ha)=	15.53	
ID= 1 DT= 1.0 min	Total Imp(%)=	90.00	Dir. Conn.(%)= 90.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	13.98	1.55
Dep. Storage (mm)=	1.00	5.00
Average Slope (%)=	1.00	2.00

Length (m)= 321.77 40.00
Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 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
0.017	0.37	6.017	1.29	12.017	1.14	18.02	0.53
0.033	0.37	6.033	1.29	12.033	1.14	18.03	0.53
0.050	0.37	6.050	1.29	12.050	1.14	18.05	0.53
0.067	0.37	6.067	1.29	12.067	1.14	18.07	0.53
0.083	0.37	6.083	1.29	12.083	1.14	18.08	0.53
0.100	0.37	6.100	1.29	12.100	1.14	18.10	0.53
0.117	0.37	6.117	1.29	12.117	1.14	18.12	0.53
0.133	0.37	6.133	1.29	12.133	1.14	18.13	0.53
0.150	0.37	6.150	1.29	12.150	1.14	18.15	0.53
0.167	0.37	6.167	1.29	12.167	1.14	18.17	0.53
0.183	0.38	6.183	1.41	12.183	1.10	18.18	0.52
0.200	0.38	6.200	1.41	12.200	1.10	18.20	0.52
0.217	0.38	6.217	1.41	12.217	1.10	18.22	0.52
0.233	0.38	6.233	1.41	12.233	1.10	18.23	0.52
0.250	0.38	6.250	1.41	12.250	1.10	18.25	0.52
0.267	0.38	6.267	1.41	12.267	1.10	18.27	0.52
0.283	0.38	6.283	1.41	12.283	1.10	18.28	0.52
0.300	0.38	6.300	1.41	12.300	1.10	18.30	0.52
0.317	0.38	6.317	1.41	12.317	1.10	18.32	0.52
0.333	0.38	6.333	1.41	12.333	1.10	18.33	0.52
0.350	0.38	6.350	1.55	12.350	1.06	18.35	0.52
0.367	0.38	6.367	1.55	12.367	1.06	18.37	0.52
0.383	0.38	6.383	1.55	12.383	1.06	18.38	0.52
0.400	0.38	6.400	1.55	12.400	1.06	18.40	0.52
0.417	0.38	6.417	1.55	12.417	1.06	18.42	0.52
0.433	0.38	6.433	1.55	12.433	1.06	18.43	0.52
0.450	0.38	6.450	1.55	12.450	1.06	18.45	0.52
0.467	0.38	6.467	1.55	12.467	1.06	18.47	0.52
0.483	0.38	6.483	1.55	12.483	1.06	18.48	0.52
0.500	0.38	6.500	1.55	12.500	1.06	18.50	0.52
0.517	0.39	6.517	1.73	12.517	1.03	18.52	0.51
0.533	0.39	6.533	1.73	12.533	1.03	18.53	0.51
0.550	0.39	6.550	1.73	12.550	1.03	18.55	0.51
0.567	0.39	6.567	1.73	12.567	1.03	18.57	0.51
0.583	0.39	6.583	1.73	12.583	1.03	18.58	0.51
0.600	0.39	6.600	1.73	12.600	1.03	18.60	0.51
0.617	0.39	6.617	1.73	12.617	1.03	18.62	0.51
0.633	0.39	6.633	1.73	12.633	1.03	18.63	0.51
0.650	0.39	6.650	1.73	12.650	1.03	18.65	0.51
0.667	0.39	6.667	1.73	12.667	1.03	18.67	0.51
0.683	0.40	6.683	1.96	12.683	1.00	18.68	0.50
0.700	0.40	6.700	1.96	12.700	1.00	18.70	0.50
0.717	0.40	6.717	1.96	12.717	1.00	18.72	0.50
0.733	0.40	6.733	1.96	12.733	1.00	18.73	0.50
0.750	0.40	6.750	1.96	12.750	1.00	18.75	0.50
0.767	0.40	6.767	1.96	12.767	1.00	18.77	0.50
0.783	0.40	6.783	1.96	12.783	1.00	18.78	0.50
0.800	0.40	6.800	1.96	12.800	1.00	18.80	0.50
0.817	0.40	6.817	1.96	12.817	1.00	18.82	0.50
0.833	0.40	6.833	1.96	12.833	1.00	18.83	0.50
0.850	0.41	6.850	2.26	12.850	0.97	18.85	0.50
0.867	0.41	6.867	2.26	12.867	0.97	18.87	0.50
0.883	0.41	6.883	2.26	12.883	0.97	18.88	0.50
0.900	0.41	6.900	2.26	12.900	0.97	18.90	0.50
0.917	0.41	6.917	2.26	12.917	0.97	18.92	0.50
0.933	0.41	6.933	2.26	12.933	0.97	18.93	0.50
0.950	0.41	6.950	2.26	12.950	0.97	18.95	0.50
0.967	0.41	6.967	2.26	12.967	0.97	18.97	0.50
0.983	0.41	6.983	2.26	12.983	0.97	18.98	0.50
1.000	0.41	7.000	2.26	13.000	0.97	19.00	0.50
1.017	0.42	7.017	2.70	13.017	0.94	19.02	0.49
1.033	0.42	7.033	2.70	13.033	0.94	19.03	0.49
1.050	0.42	7.050	2.70	13.050	0.94	19.05	0.49
1.067	0.42	7.067	2.70	13.067	0.94	19.07	0.49
1.083	0.42	7.083	2.70	13.083	0.94	19.08	0.49
1.100	0.42	7.100	2.70	13.100	0.94	19.10	0.49
1.117	0.42	7.117	2.70	13.117	0.94	19.12	0.49
1.133	0.42	7.133	2.70	13.133	0.94	19.13	0.49
1.150	0.42	7.150	2.70	13.150	0.94	19.15	0.49
1.167	0.42	7.167	2.70	13.167	0.94	19.17	0.49
1.183	0.42	7.183	3.37	13.183	0.92	19.18	0.48
1.200	0.42	7.200	3.37	13.200	0.92	19.20	0.48
1.217	0.42	7.217	3.37	13.217	0.92	19.22	0.48
1.233	0.42	7.233	3.37	13.233	0.92	19.23	0.48
1.250	0.42	7.250	3.37	13.250	0.92	19.25	0.48
1.267	0.42	7.267	3.37	13.267	0.92	19.27	0.48
1.283	0.42	7.283	3.37	13.283	0.92	19.28	0.48
1.300	0.42	7.300	3.37	13.300	0.92	19.30	0.48
1.317	0.42	7.317	3.37	13.317	0.92	19.32	0.48
1.333	0.42	7.333	3.37	13.333	0.92	19.33	0.48
1.350	0.43	7.350	4.53	13.350	0.89	19.35	0.48
1.367	0.43	7.367	4.53	13.367	0.89	19.37	0.48
1.383	0.43	7.383	4.53	13.383	0.89	19.38	0.48
1.400	0.43	7.400	4.53	13.400	0.89	19.40	0.48
1.417	0.43	7.417	4.53	13.417	0.89	19.42	0.48
1.433	0.43	7.433	4.53	13.433	0.89	19.43	0.48
1.450	0.43	7.450	4.53	13.450	0.89	19.45	0.48
1.467	0.43	7.467	4.53	13.467	0.89	19.47	0.48
1.483	0.43	7.483	4.53	13.483	0.89	19.48	0.48
1.500	0.43	7.500	4.54	13.500	0.89	19.50	0.48
1.517	0.44	7.517	7.13	13.517	0.87	19.52	0.47
1.533	0.44	7.533	7.13	13.533	0.87	19.53	0.47
1.550	0.44	7.550	7.13	13.550	0.87	19.55	0.47
1.567	0.44	7.567	7.13	13.567	0.87	19.57	0.47
1.583	0.44	7.583	7.13	13.583	0.87	19.58	0.47
1.600	0.44	7.600	7.13	13.600	0.87	19.60	0.47
1.617	0.44	7.617	7.13	13.617	0.87	19.62	0.47
1.633	0.44	7.633	7.13	13.633	0.87	19.63	0.47
1.650	0.44	7.650	7.13	13.650	0.87	19.65	0.47
1.667	0.44	7.667	7.16	13.667	0.87	19.67	0.47
1.683	0.45	7.683	18.18	13.683	0.85	19.68	0.47
1.700	0.45	7.700	18.18	13.700	0.85	19.70	0.47
1.717	0.45	7.717	18.18	13.717	0.85	19.72	0.47
1.733	0.45	7.733	18.18	13.733	0.85	19.73	0.47
1.750	0.45	7.750	18.18	13.750	0.85	19.75	0.47
1.767	0.45	7.767	18.18	13.767	0.85	19.77	0.47
1.783	0.45	7.783	18.18	13.783	0.85	19.78	0.47
1.800	0.45	7.800	18.18	13.800	0.85	19.80	0.47
1.817	0.45	7.817	18.18	13.817	0.85	19.82	0.47
1.833	0.45	7.833	18.36	13.833	0.85	19.83	0.47
1.850	0.46	7.850	80.06	13.850	0.83	19.85	0.46
1.867	0.46	7.867	80.06	13.867	0.83	19.87	0.46
1.883	0.46	7.883	80.06	13.883	0.83	19.88	0.46
1.900	0.46	7.900	80.06	13.900	0.83	19.90	0.46
1.917	0.46	7.917	80.06	13.917	0.83	19.92	0.46
1.933	0.46	7.933	80.06	13.933	0.83	19.93	0.46
1.950	0.46	7.950	80.06	13.950	0.83	19.95	0.46
1.967	0.46	7.967	80.06	13.967	0.83	19.97	0.46
1.983	0.46	7.983	80.06	13.983	0.83	19.98	0.46
2.000	0.46	8.000	79.90	14.000	0.83	20.00	0.46
2.017	0.47	8.017	24.18	14.017	0.81	20.02	0.46
2.033	0.47	8.033	24.18	14.033	0.81	20.03	0.46
2.050	0.47	8.050	24.18	14.050	0.81	20.05	0.46
2.067	0.47	8.067	24.18	14.067	0.81	20.07	0.46
2.083	0.47	8.083	24.18	14.083	0.81	20.08	0.46
2.100	0.47	8.100	24.18	14.100	0.81	20.10	0.46
2.117	0.47	8.117	24.18	14.117	0.81	20.12	0.46
2.133	0.47	8.133	24.18	14.133	0.81	20.13	0.46
2.150	0.47	8.150	24.18	14.150	0.81	20.15	0.46
2.167	0.47	8.167	24.14	14.167	0.81	20.17	0.46
2.183	0.49	8.183	12.21	14.183	0.79	20.18	0.45
2.200	0.49	8.200	12.21	14.200	0.79	20.20	0.45
2.217	0.49	8.217	12.21	14.217	0.79	20.22	0.45
2.233	0.49	8.233	12.21	14.233	0.79	20.23	0.45
2.250	0.49	8.250	12.21	14.250	0.79	20.25	0.45
2.267	0.49	8.267	12.21	14.267	0.79	20.27	0.45
2.283	0.49	8.283	12.21	14.283	0.79	20.28	0.45
2.300	0.49	8.300	12.21	14.300	0.79	20.30	0.45
2.317	0.49	8.317	12.21	14.317	0.79	20.32	0.45
2.333	0.49	8.333	12.20	14.333	0.79	20.33	0.45
2.350	0.50	8.350	8.15	14.350	0.78	20.35	0.45
2.367	0.50	8.367	8.15	14.367	0.78	20.37	0.45
2.383	0.50	8.383	8.15	14.383	0.78	20.38	0.45
2.400	0.50	8.400	8.15	14.400	0.78	20.40	0.45
2.417	0.50	8.417	8.15	14.417	0.78	20.42	0.45
2.433	0.50	8.433	8.15	14.433	0.78	20.43	0.45
2.450	0.50	8.450	8.15	14.450	0.78	20.45	0.45
2.467	0.50	8.467	8.15	14.467	0.78	20.47	0.45
2.483	0.50	8.483	8.15	14.483	0.78	20.48	0.45
2.500	0.50	8.500	8.14	14.500	0.78	20.50	0.45
2.517	0.51	8.517	6.13	14.517	0.76	20.52	0.44
2.533	0.51	8.533	6.13	14.533	0.76	20.53	0.44
2.550	0.51	8.550	6.13	14.550	0.76	20.55	0.44
2.567	0.51	8.567	6.13	14.567	0.76	20.57	0.44
2.583	0.51	8.583	6.13	14.583	0.76	20.58	0.44
2.600	0.51	8.600	6.13	14.600	0.76	20.60	0.44
2.617	0.51	8.617	6.13	14.617	0.76	20.62	0.44
2.633	0.51	8.633	6.13	14.633	0.76	20.63	0.44
2.650	0.51	8.650	6.13	14.650	0.76	20.65	0.44
2.667	0.51	8.667	6.13	14.667	0.76	20.67	0.44
2.683	0.53	8.683	4.94	14.683	0.74	20.68	0.44
2.700	0.53	8.700	4.94	14.700	0.74	20.70	0.44
2.717	0.53	8.717	4.94	14.717	0.74	20.72	0.44
2.733	0.53	8.733	4.94	14.733	0.74	20.73	0.44
2.750	0.53	8.750	4.94	14.750	0.74	20.75	0.44
2.767	0.53	8.767	4.94	14.767	0.74	20.77	0.44
2.783	0.53	8.783	4.94	14.783	0.74	20.78	0.44
2.800	0.53	8.800	4.94	14.800	0.74	20.80	0.44
2.817	0.53	8.817	4.94	14.817	0.74	20.82	0.44
2.833	0.53	8.833	4.93	14.833	0.74	20.83	0.44
2.850	0.54	8.850	4.14	14.850	0.73	20.85	0.43
2.867	0.54	8.867	4.14	14.867	0.73	20.87	0.43
2.883	0.54	8.883	4.14	14.883	0.73	20.88	0.43
2.900	0.54	8.900	4.14	14.900	0.73	20.90	0.43
2.917	0.54	8.917	4.14	14.917	0.73	20.92	0.43
2.933	0.54	8.933	4.14	14.933	0.73	20.93	0.43
2.950	0.54	8.950	4.14	14.950	0.73	20.95	0.43
2.967	0.54	8.967	4.14	14.967	0.73	20.97	0.43
2.983	0.54	8.983	4.14	14.983	0.73	20.98	0.43
3.000	0.54	9.000	4.14	15.000	0.73	21.00	0.43
3.017	0.56	9.017	3.58	15.017	0.71	21.02	0.43
3.033	0.56	9.033	3.58	15.033	0.71	21.03	0.43
3.050	0.56	9.050	3.58	15.050	0.71	21.05	0.43
3.067	0.56	9.067	3.58	15.067	0.71	21.07	0.43
3.083	0.56	9.083	3.58	15.083	0.71	21.08	0.43
3.100	0.56	9.100	3.58	15.100	0.71	21.10	0.43
3.117	0.56	9.117	3.58	15.117	0.71	21.12	0.43
3.133	0.56	9.133	3.58	15.133	0.71	21.13	0.43
3.150	0.56	9.150	3.58	15.150	0.71	21.15	0.43
3.167	0.56	9.167	3.58	15.167	0.71	21.17	0.43
3.183	0.57	9.183	3.16	15.183	0.70	21.18	0.42

3.200	0.57	9.200	3.16	15.200	0.70	21.20	0.42
3.217	0.57	9.217	3.16	15.217	0.70	21.22	0.42
3.233	0.57	9.233	3.16	15.233	0.70	21.23	0.42
3.250	0.57	9.250	3.16	15.250	0.70	21.25	0.42
3.267	0.57	9.267	3.16	15.267	0.70	21.27	0.42
3.283	0.57	9.283	3.16	15.283	0.70	21.28	0.42
3.300	0.57	9.300	3.16	15.300	0.70	21.30	0.42
3.317	0.57	9.317	3.16	15.317	0.70	21.32	0.42
3.333	0.57	9.333	3.16	15.333	0.70	21.33	0.42
3.350	0.59	9.350	2.83	15.350	0.69	21.35	0.42
3.367	0.59	9.367	2.83	15.367	0.69	21.37	0.42
3.383	0.59	9.383	2.83	15.383	0.69	21.38	0.42
3.400	0.59	9.400	2.83	15.400	0.69	21.40	0.42
3.417	0.59	9.417	2.83	15.417	0.69	21.42	0.42
3.433	0.59	9.433	2.83	15.433	0.69	21.43	0.42
3.450	0.59	9.450	2.83	15.450	0.69	21.45	0.42
3.467	0.59	9.467	2.83	15.467	0.69	21.47	0.42
3.483	0.59	9.483	2.83	15.483	0.69	21.48	0.42
3.500	0.59	9.500	2.83	15.500	0.69	21.50	0.42
3.517	0.61	9.517	2.57	15.517	0.67	21.52	0.41
3.533	0.61	9.533	2.57	15.533	0.67	21.53	0.41
3.550	0.61	9.550	2.57	15.550	0.67	21.55	0.41
3.567	0.61	9.567	2.57	15.567	0.67	21.57	0.41
3.583	0.61	9.583	2.57	15.583	0.67	21.58	0.41
3.600	0.61	9.600	2.57	15.600	0.67	21.60	0.41
3.617	0.61	9.617	2.57	15.617	0.67	21.62	0.41
3.633	0.61	9.633	2.57	15.633	0.67	21.63	0.41
3.650	0.61	9.650	2.57	15.650	0.67	21.65	0.41
3.667	0.61	9.667	2.57	15.667	0.67	21.67	0.41
3.683	0.63	9.683	2.36	15.683	0.66	21.68	0.41
3.700	0.63	9.700	2.36	15.700	0.66	21.70	0.41
3.717	0.63	9.717	2.36	15.717	0.66	21.72	0.41
3.733	0.63	9.733	2.36	15.733	0.66	21.73	0.41
3.750	0.63	9.750	2.36	15.750	0.66	21.75	0.41
3.767	0.63	9.767	2.36	15.767	0.66	21.77	0.41
3.783	0.63	9.783	2.36	15.783	0.66	21.78	0.41
3.800	0.63	9.800	2.36	15.800	0.66	21.80	0.41
3.817	0.63	9.817	2.36	15.817	0.66	21.82	0.41
3.833	0.63	9.833	2.35	15.833	0.66	21.83	0.41
3.850	0.65	9.850	2.18	15.850	0.65	21.85	0.41
3.867	0.65	9.867	2.18	15.867	0.65	21.87	0.41
3.883	0.65	9.883	2.18	15.883	0.65	21.88	0.41
3.900	0.65	9.900	2.18	15.900	0.65	21.90	0.41
3.917	0.65	9.917	2.18	15.917	0.65	21.92	0.41
3.933	0.65	9.933	2.18	15.933	0.65	21.93	0.41
3.950	0.65	9.950	2.18	15.950	0.65	21.95	0.41
3.967	0.65	9.967	2.18	15.967	0.65	21.97	0.41
3.983	0.65	9.983	2.18	15.983	0.65	21.98	0.41
4.000	0.65	10.000	2.18	16.000	0.65	22.00	0.41
4.017	0.68	10.017	2.02	16.017	0.64	22.02	0.40
4.033	0.68	10.033	2.02	16.033	0.64	22.03	0.40
4.050	0.68	10.050	2.02	16.050	0.64	22.05	0.40
4.067	0.68	10.067	2.02	16.067	0.64	22.07	0.40
4.083	0.68	10.083	2.02	16.083	0.64	22.08	0.40
4.100	0.68	10.100	2.02	16.100	0.64	22.10	0.40
4.117	0.68	10.117	2.02	16.117	0.64	22.12	0.40
4.133	0.68	10.133	2.02	16.133	0.64	22.13	0.40
4.150	0.68	10.150	2.02	16.150	0.64	22.15	0.40
4.167	0.68	10.167	2.02	16.167	0.64	22.17	0.40
4.183	0.71	10.183	1.89	16.183	0.63	22.18	0.40
4.200	0.71	10.200	1.89	16.200	0.63	22.20	0.40
4.217	0.71	10.217	1.89	16.217	0.63	22.22	0.40
4.233	0.71	10.233	1.89	16.233	0.63	22.23	0.40
4.250	0.71	10.250	1.89	16.250	0.63	22.25	0.40
4.267	0.71	10.267	1.89	16.267	0.63	22.27	0.40
4.283	0.71	10.283	1.89	16.283	0.63	22.28	0.40
4.300	0.71	10.300	1.89	16.300	0.63	22.30	0.40
4.317	0.71	10.317	1.89	16.317	0.63	22.32	0.40
4.333	0.71	10.333	1.89	16.333	0.63	22.33	0.40
4.350	0.73	10.350	1.78	16.350	0.62	22.35	0.39
4.367	0.73	10.367	1.78	16.367	0.62	22.37	0.39
4.383	0.73	10.383	1.78	16.383	0.62	22.38	0.39
4.400	0.73	10.400	1.78	16.400	0.62	22.40	0.39
4.417	0.73	10.417	1.78	16.417	0.62	22.42	0.39
4.433	0.73	10.433	1.78	16.433	0.62	22.43	0.39
4.450	0.73	10.450	1.78	16.450	0.62	22.45	0.39
4.467	0.73	10.467	1.78	16.467	0.62	22.47	0.39
4.483	0.73	10.483	1.78	16.483	0.62	22.48	0.39
4.500	0.73	10.500	1.78	16.500	0.62	22.50	0.39
4.517	0.77	10.517	1.68	16.517	0.61	22.52	0.39
4.533	0.77	10.533	1.68	16.533	0.61	22.53	0.39
4.550	0.77	10.550	1.68	16.550	0.61	22.55	0.39
4.567	0.77	10.567	1.68	16.567	0.61	22.57	0.39
4.583	0.77	10.583	1.68	16.583	0.61	22.58	0.39
4.600	0.77	10.600	1.68	16.600	0.61	22.60	0.39
4.617	0.77	10.617	1.68	16.617	0.61	22.62	0.39
4.633	0.77	10.633	1.68	16.633	0.61	22.63	0.39
4.650	0.77	10.650	1.68	16.650	0.61	22.65	0.39
4.667	0.77	10.667	1.68	16.667	0.61	22.67	0.39
4.683	0.80	10.683	1.59	16.683	0.60	22.68	0.39
4.700	0.80	10.700	1.59	16.700	0.60	22.70	0.39
4.717	0.80	10.717	1.59	16.717	0.60	22.72	0.39
4.733	0.80	10.733	1.59	16.733	0.60	22.73	0.39
4.750	0.80	10.750	1.59	16.750	0.60	22.75	0.39
4.767	0.80	10.767	1.59	16.767	0.60	22.77	0.39
4.783	0.80	10.783	1.59	16.783	0.60	22.78	0.39
4.800	0.80	10.800	1.59	16.800	0.60	22.80	0.39
4.817	0.80	10.817	1.59	16.817	0.60	22.82	0.39
4.833	0.80	10.833	1.59	16.833	0.60	22.83	0.39
4.850	0.84	10.850	1.51	16.850	0.59	22.85	0.38
4.867	0.84	10.867	1.51	16.867	0.59	22.87	0.38
4.883	0.84	10.883	1.51	16.883	0.59	22.88	0.38
4.900	0.84	10.900	1.51	16.900	0.59	22.90	0.38
4.917	0.84	10.917	1.51	16.917	0.59	22.92	0.38
4.933	0.84	10.933	1.51	16.933	0.59	22.93	0.38
4.950	0.84	10.950	1.51	16.950	0.59	22.95	0.38
4.967	0.84	10.967	1.51	16.967	0.59	22.97	0.38
4.983	0.84	10.983	1.51	16.983	0.59	22.98	0.38
5.000	0.84	11.000	1.51	17.000	0.59	23.00	0.38
5.017	0.88	11.017	1.44	17.017	0.58	23.02	0.38
5.033	0.88	11.033	1.44	17.033	0.58	23.03	0.38
5.050	0.88	11.050	1.44	17.050	0.58	23.05	0.38
5.067	0.88	11.067	1.44	17.067	0.58	23.07	0.38
5.083	0.88	11.083	1.44	17.083	0.58	23.08	0.38
5.100	0.88	11.100	1.44	17.100	0.58	23.10	0.38
5.117	0.88	11.117	1.44	17.117	0.58	23.12	0.38
5.133	0.88	11.133	1.44	17.133	0.58	23.13	0.38
5.150	0.88	11.150	1.44	17.150	0.58	23.15	0.38
5.167	0.88	11.167	1.44	17.167	0.58	23.17	0.38
5.183	0.93	11.183	1.38	17.183	0.57	23.18	0.38
5.200	0.93	11.200	1.38	17.200	0.57	23.20	0.38
5.217	0.93	11.217	1.38	17.217	0.57	23.22	0.38
5.233	0.93	11.233	1.38	17.233	0.57	23.23	0.38
5.250	0.93	11.250	1.38	17.250	0.57	23.25	0.38
5.267	0.93	11.267	1.38	17.267	0.57	23.27	0.38
5.283	0.93	11.283	1.38	17.283	0.57	23.28	0.38
5.300	0.93	11.300	1.38	17.300	0.57	23.30	0.38
5.317	0.93	11.317	1.38	17.317	0.57	23.32	0.38
5.333	0.93	11.333	1.38	17.333	0.57	23.33	0.38
5.350	0.98	11.350	1.32	17.350	0.56	23.35	0.37
5.367	0.98	11.367	1.32	17.367	0.56	23.37	0.37
5.383	0.98	11.383	1.32	17.383	0.56	23.38	0.37
5.400	0.98	11.400	1.32	17.400	0.56	23.40	0.37
5.417	0.98	11.417	1.32	17.417	0.56	23.42	0.37
5.433	0.98	11.433	1.32	17.433	0.56	23.43	0.37
5.450	0.98	11.450	1.32	17.450	0.56	23.45	0.37
5.467	0.98	11.467	1.32	17.467	0.56	23.47	0.37
5.483	0.98	11.483	1.32	17.483	0.56	23.48	0.37
5.500	0.98	11.500	1.32	17.500	0.56	23.50	0.37
5.517	1.04	11.517	1.27	17.517	0.55	23.52	0.37
5.533	1.04	11.533	1.27	17.533	0.55	23.53	0.37
5.550	1.04	11.550	1.27	17.550	0.55	23.55	0.37
5.567	1.04	11.567	1.27	17.567	0.55	23.57	0.37
5.583	1.04	11.583	1.27	17.583	0.55	23.58	0.37
5.600	1.04	11.600	1.27	17.600	0.55	23.60	0.37
5.617	1.04	11.617	1.27	17.617	0.55	23.62	0.37
5.633	1.04	11.633	1.27	17.633	0.55	23.63	0.37
5.650	1.04	11.650	1.27	17.650	0.55	23.65	0.37
5.667	1.05	11.667	1.27	17.667	0.55	23.67	0.37
5.683	1.12	11.683	1.22	17.683	0.55	23.68	0.37
5.700	1.12	11.700	1.22	17.700	0.55	23.70	0.37
5.717	1.12	11.717	1.22	17.717	0.55	23.72	0.37
5.733	1.12	11.733	1.22	17.733	0.55	23.73	0.37
5.750	1.12	11.750	1.22	17.750	0.55	23.75	0.37
5.767	1.12	11.767	1.22	17.767	0.55	23.77	0.37
5.783	1.12	11.783	1.22	17.783	0.55	23.78	0.37
5.800	1.12	11.800	1.22	17.800	0.55	23.80	0.37
5.817	1.12	11.817	1.22	17.817	0.55	23.82	0.37
5.833	1.12	11.833	1.22	17.833	0.55	23.83	0.37
5.850	1.20	11.850	1.18	17.850	0.54	23.85	0.36
5.867	1.20	11.867	1.18	17.867	0.54	23.87	0.36
5.883	1.20	11.883	1.18	17.883	0.54	23.88	0.36
5.900	1.20	11.900	1.18	17.900	0.54	23.90	0.36
5.917	1.20	11.917	1.18	17.917	0.54	23.92	0.36
5.933	1.20	11.933	1.18	17.933	0.54	23.93	0.36
5.950	1.20	11.950	1.18	17.950	0.54	23.95	0.36
5.967	1.20	11.967	1.18	17.967	0.54	23.97	0.36
5.983	1.20	11.983	1.18	17.983	0.54	23.98	0.36
6.000	1.20	12.000	1.18	18.000	0.54	24.00	0.36

Max.Eff.Inten.(mm/hr)=	80.06	31.43	
over (min)	6.00	9.00	
Storage Coeff. (min)=	5.63 (ii)	8.83 (ii)	
Unit Hyd. Tpeak (min)=	6.00	9.00	
Unit Hyd. peak (cms)=	0.20	0.13	
			TOTALS
PEAK FLOW (cms)=	2.47	0.09	2.550 (iii)
TIME TO PEAK (hrs)=	8.03	8.10	8.03
RUNOFF VOLUME (mm)=	46.69	20.83	44.11
TOTAL RAINFALL (mm)=	47.70	47.70	47.70
RUNOFF COEFFICIENT =	0.98	0.44	0.92

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 85.0 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	
STANDHYD (0013)	Area (ha)= 2.56
ID= 1 DT= 1.0 min	Total Imp(%)= 99.00 Dir. Conn.(%)= 99.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	2.53	0.03
Dep. Storage	(mm)=	1.00	5.00
Average Slope	(%)=	1.00	2.00
Length	(m)=	130.64	40.00

Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 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
0.017	0.37	6.017	1.29	12.017	1.14	18.02	0.53
0.033	0.37	6.033	1.29	12.033	1.14	18.03	0.53
0.050	0.37	6.050	1.29	12.050	1.14	18.05	0.53
0.067	0.37	6.067	1.29	12.067	1.14	18.07	0.53
0.083	0.37	6.083	1.29	12.083	1.14	18.08	0.53
0.100	0.37	6.100	1.29	12.100	1.14	18.10	0.53
0.117	0.37	6.117	1.29	12.117	1.14	18.12	0.53
0.133	0.37	6.133	1.29	12.133	1.14	18.13	0.53
0.150	0.37	6.150	1.29	12.150	1.14	18.15	0.53
0.167	0.37	6.167	1.29	12.167	1.14	18.17	0.53
0.183	0.38	6.183	1.41	12.183	1.10	18.18	0.52
0.200	0.38	6.200	1.41	12.200	1.10	18.20	0.52
0.217	0.38	6.217	1.41	12.217	1.10	18.22	0.52
0.233	0.38	6.233	1.41	12.233	1.10	18.23	0.52
0.250	0.38	6.250	1.41	12.250	1.10	18.25	0.52
0.267	0.38	6.267	1.41	12.267	1.10	18.27	0.52
0.283	0.38	6.283	1.41	12.283	1.10	18.28	0.52
0.300	0.38	6.300	1.41	12.300	1.10	18.30	0.52
0.317	0.38	6.317	1.41	12.317	1.10	18.32	0.52
0.333	0.38	6.333	1.41	12.333	1.10	18.33	0.52
0.350	0.38	6.350	1.55	12.350	1.06	18.35	0.52
0.367	0.38	6.367	1.55	12.367	1.06	18.37	0.52
0.383	0.38	6.383	1.55	12.383	1.06	18.38	0.52
0.400	0.38	6.400	1.55	12.400	1.06	18.40	0.52
0.417	0.38	6.417	1.55	12.417	1.06	18.42	0.52
0.433	0.38	6.433	1.55	12.433	1.06	18.43	0.52
0.450	0.38	6.450	1.55	12.450	1.06	18.45	0.52
0.467	0.38	6.467	1.55	12.467	1.06	18.47	0.52
0.483	0.38	6.483	1.55	12.483	1.06	18.48	0.52
0.500	0.38	6.500	1.55	12.500	1.06	18.50	0.52
0.517	0.39	6.517	1.73	12.517	1.03	18.52	0.51
0.533	0.39	6.533	1.73	12.533	1.03	18.53	0.51
0.550	0.39	6.550	1.73	12.550	1.03	18.55	0.51
0.567	0.39	6.567	1.73	12.567	1.03	18.57	0.51
0.583	0.39	6.583	1.73	12.583	1.03	18.58	0.51
0.600	0.39	6.600	1.73	12.600	1.03	18.60	0.51
0.617	0.39	6.617	1.73	12.617	1.03	18.62	0.51
0.633	0.39	6.633	1.73	12.633	1.03	18.63	0.51
0.650	0.39	6.650	1.73	12.650	1.03	18.65	0.51
0.667	0.39	6.667	1.73	12.667	1.03	18.67	0.51
0.683	0.40	6.683	1.96	12.683	1.00	18.68	0.50
0.700	0.40	6.700	1.96	12.700	1.00	18.70	0.50
0.717	0.40	6.717	1.96	12.717	1.00	18.72	0.50
0.733	0.40	6.733	1.96	12.733	1.00	18.73	0.50
0.750	0.40	6.750	1.96	12.750	1.00	18.75	0.50
0.767	0.40	6.767	1.96	12.767	1.00	18.77	0.50
0.783	0.40	6.783	1.96	12.783	1.00	18.78	0.50
0.800	0.40	6.800	1.96	12.800	1.00	18.80	0.50
0.817	0.40	6.817	1.96	12.817	1.00	18.82	0.50
0.833	0.40	6.833	1.96	12.833	1.00	18.83	0.50
0.850	0.41	6.850	2.26	12.850	0.97	18.85	0.50
0.867	0.41	6.867	2.26	12.867	0.97	18.87	0.50
0.883	0.41	6.883	2.26	12.883	0.97	18.88	0.50
0.900	0.41	6.900	2.26	12.900	0.97	18.90	0.50
0.917	0.41	6.917	2.26	12.917	0.97	18.92	0.50
0.933	0.41	6.933	2.26	12.933	0.97	18.93	0.50
0.950	0.41	6.950	2.26	12.950	0.97	18.95	0.50
0.967	0.41	6.967	2.26	12.967	0.97	18.97	0.50
0.983	0.41	6.983	2.26	12.983	0.97	18.98	0.50
1.000	0.41	7.000	2.26	13.000	0.97	19.00	0.50
1.017	0.42	7.017	2.70	13.017	0.94	19.02	0.49
1.033	0.42	7.033	2.70	13.033	0.94	19.03	0.49
1.050	0.42	7.050	2.70	13.050	0.94	19.05	0.49
1.067	0.42	7.067	2.70	13.067	0.94	19.07	0.49
1.083	0.42	7.083	2.70	13.083	0.94	19.08	0.49
1.100	0.42	7.100	2.70	13.100	0.94	19.10	0.49
1.117	0.42	7.117	2.70	13.117	0.94	19.12	0.49
1.133	0.42	7.133	2.70	13.133	0.94	19.13	0.49
1.150	0.42	7.150	2.70	13.150	0.94	19.15	0.49
1.167	0.42	7.167	2.70	13.167	0.94	19.17	0.49
1.183	0.42	7.183	3.37	13.183	0.92	19.18	0.48
1.200	0.42	7.200	3.37	13.200	0.92	19.20	0.48
1.217	0.42	7.217	3.37	13.217	0.92	19.22	0.48
1.233	0.42	7.233	3.37	13.233	0.92	19.23	0.48
1.250	0.42	7.250	3.37	13.250	0.92	19.25	0.48
1.267	0.42	7.267	3.37	13.267	0.92	19.27	0.48
1.283	0.42	7.283	3.37	13.283	0.92	19.28	0.48
1.300	0.42	7.300	3.37	13.300	0.92	19.30	0.48
1.317	0.42	7.317	3.37	13.317	0.92	19.32	0.48
1.333	0.42	7.333	3.37	13.333	0.92	19.33	0.48
1.350	0.43	7.350	4.53	13.350	0.89	19.35	0.48
1.367	0.43	7.367	4.53	13.367	0.89	19.37	0.48
1.383	0.43	7.383	4.53	13.383	0.89	19.38	0.48
1.400	0.43	7.400	4.53	13.400	0.89	19.40	0.48
1.417	0.43	7.417	4.53	13.417	0.89	19.42	0.48
1.433	0.43	7.433	4.53	13.433	0.89	19.43	0.48
1.450	0.43	7.450	4.53	13.450	0.89	19.45	0.48
1.467	0.43	7.467	4.53	13.467	0.89	19.47	0.48
1.483	0.43	7.483	4.53	13.483	0.89	19.48	0.48
1.500	0.43	7.500	4.54	13.500	0.89	19.50	0.48
1.517	0.44	7.517	7.13	13.517	0.87	19.52	0.47
1.533	0.44	7.533	7.13	13.533	0.87	19.53	0.47
1.550	0.44	7.550	7.13	13.550	0.87	19.55	0.47
1.567	0.44	7.567	7.13	13.567	0.87	19.57	0.47
1.583	0.44	7.583	7.13	13.583	0.87	19.58	0.47
1.600	0.44	7.600	7.13	13.600	0.87	19.60	0.47
1.617	0.44	7.617	7.13	13.617	0.87	19.62	0.47
1.633	0.44	7.633	7.13	13.633	0.87	19.63	0.47
1.650	0.44	7.650	7.13	13.650	0.87	19.65	0.47
1.667	0.44	7.667	7.16	13.667	0.87	19.67	0.47
1.683	0.45	7.683	18.18	13.683	0.85	19.68	0.47
1.700	0.45	7.700	18.18	13.700	0.85	19.70	0.47
1.717	0.45	7.717	18.18	13.717	0.85	19.72	0.47
1.733	0.45	7.733	18.18	13.733	0.85	19.73	0.47
1.750	0.45	7.750	18.18	13.750	0.85	19.75	0.47
1.767	0.45	7.767	18.18	13.767	0.85	19.77	0.47
1.783	0.45	7.783	18.18	13.783	0.85	19.78	0.47
1.800	0.45	7.800	18.18	13.800	0.85	19.80	0.47
1.817	0.45	7.817	18.18	13.817	0.85	19.82	0.47
1.833	0.45	7.833	18.36	13.833	0.85	19.83	0.47
1.850	0.46	7.850	80.06	13.850	0.83	19.85	0.46
1.867	0.46	7.867	80.06	13.867	0.83	19.87	0.46
1.883	0.46	7.883	80.06	13.883	0.83	19.88	0.46
1.900	0.46	7.900	80.06	13.900	0.83	19.90	0.46
1.917	0.46	7.917	80.06	13.917	0.83	19.92	0.46
1.933	0.46	7.933	80.06	13.933	0.83	19.93	0.46
1.950	0.46	7.950	80.06	13.950	0.83	19.95	0.46
1.967	0.46	7.967	80.06	13.967	0.83	19.97	0.46
1.983	0.46	7.983	80.06	13.983	0.83	19.98	0.46
2.000	0.46	8.000	79.90	14.000	0.83	20.00	0.46
2.017	0.47	8.017	24.18	14.017	0.81	20.02	0.46
2.033	0.47	8.033	24.18	14.033	0.81	20.03	0.46
2.050	0.47	8.050	24.18	14.050	0.81	20.05	0.46
2.067	0.47	8.067	24.18	14.067	0.81	20.07	0.46
2.083	0.47	8.083	24.18	14.083	0.81	20.08	0.46
2.100	0.47	8.100	24.18	14.100	0.81	20.10	0.46
2.117	0.47	8.117	24.18	14.117	0.81	20.12	0.46
2.133	0.47	8.133	24.18	14.133	0.81	20.13	0.46
2.150	0.47	8.150	24.18	14.150	0.81	20.15	0.46
2.167	0.47	8.167	24.14	14.167	0.81	20.17	0.46
2.183	0.49	8.183	12.21	14.183	0.79	20.18	0.45
2.200	0.49	8.200	12.21	14.200	0.79	20.20	0.45
2.217	0.49	8.217	12.21	14.217	0.79	20.22	0.45
2.233	0.49	8.233	12.21	14.233	0.79	20.23	0.45
2.250	0.49	8.250	12.21	14.250	0.79	20.25	0.45
2.267	0.49	8.267	12.21	14.267	0.79	20.27	0.45
2.283	0.49	8.283	12.21	14.283	0.79	20.28	0.45
2.300	0.49	8.300	12.21	14.300	0.79	20.30	0.45
2.317	0.49	8.317	12.21	14.317	0.79	20.32	0.45
2.333	0.49	8.333	12.20	14.333	0.79	20.33	0.45
2.350	0.50	8.350	8.15	14.350	0.78	20.35	0.45
2.367	0.50	8.367	8.15	14.367	0.78	20.37	0.45
2.383	0.50	8.383	8.15	14.383	0.78	20.38	0.45
2.400	0.50	8.400	8.15	14.400	0.78	20.40	0.45
2.417	0.50	8.417	8.15	14.417	0.78	20.42	0.45
2.433	0.50	8.433	8.15	14.433	0.78	20.43	0.45
2.450	0.50	8.450	8.15	14.450	0.78	20.45	0.45
2.467	0.50	8.467	8.15	14.467	0.78	20.47	0.45
2.483	0.50	8.483	8.15	14.483	0.78	20.48	0.45
2.500	0.50	8.500	8.14	14.500	0.78	20.50	0.45
2.517	0.51	8.517	6.13	14.517	0.76	20.52	0.44
2.533	0.51	8.533	6.13	14.533	0.76	20.53	0.44
2.550	0.51	8.550	6.13	14.550	0.76	20.55	0.44
2.567	0.51	8.567	6.13	14.567	0.76	20.57	0.44
2.583	0.51	8.583	6.13	14.583	0.76	20.58	0.44
2.600	0.51	8.600	6.13	14.600	0.76	20.60	0.44
2.617	0.51	8.617	6.13	14.617	0.76	20.62	0.44
2.633	0.51	8.633	6.13	14.633	0.76	20.63	0.44
2.650	0.51	8.650	6.13	14.650	0.76	20.65	0.44
2.667	0.51	8.667	6.13	14.667	0.76	20.67	0.44
2.683	0.53	8.683	4.94	14.683	0.74	20.68	0.44
2.700	0.53	8.700	4.94	14.700	0.74	20.70	0.44
2.717	0.53	8.717	4.94	14.717	0.74	20.72	0.44
2.733	0.53	8.733	4.94	14.733	0.74	20.73	0.44
2.750	0.53	8.750	4.94	14.750	0.74	20.75	0.44
2.767	0.53	8.767	4.94	14.767	0.74	20.77	0.44
2.783	0.53	8.783	4.94	14.783	0.74	20.78	0.44
2.800	0.53	8.800	4.94	14.800	0.74	20.80	0.44
2.817	0.53	8.817	4.94	14.817	0.74	20.82	0.44
2.833	0.53	8.833	4.93	14.833	0.74	20.83	0.44
2.850	0.54	8.850	4.14	14.850	0.73	20.85	0.43
2.867	0.54	8.867	4.14	14.867	0.73	20.87	0.43
2.883	0.54	8.883	4.14	14.883	0.73	20.88	0.43
2.900	0.54	8.900	4.14	14.900	0.73	20.90	0.43
2.917	0.54	8.917	4.14	14.917	0.73	20.92	0.43
2.933	0.54	8.933	4.14	14.933	0.73	20.93	0.43
2.950	0.54	8.950	4.14	14.950	0.73	20.95	0.43
2.967	0.54	8.967	4.14	14.967	0.73	20.97	0.43
2.983	0.54	8.983	4.14	14.983	0.73	20.98	0.43
3.000	0.54	9.000	4.14	15.000	0.73	21.00	0.43
3.017	0.56	9.017	3.58	15.017	0.71	21.02	0.43
3.033	0.56	9.033	3.58	15.033	0.71	21.03	0.43
3.050	0.56	9.050	3.58	15.050	0.71	21.05	0.43
3.067	0.56	9.067	3.58	15.067	0.71	21.07	0.43
3.083	0.56	9.083	3.58	15.083	0.71	21.08	0.43
3.100	0.56	9.100	3.58	15.100	0.71	21.10	0.43
3.117	0.56	9.117	3.58	15.117	0.71	21.12	0.43
3.133	0.56	9.133	3.58	15.133	0.71	21.13	0.43
3.150	0.56	9.150	3.58	15.150	0.71	21.15	0.43
3.167	0.56	9.167	3.58	15.167	0.71	21.17	0.43
3.183	0.57	9.183	3.16	15.183	0.70	21.18	0.42
3.200	0.57	9.200	3.16	15.200	0.70	21.20	0.42

3.217	0.57	9.217	3.16	15.217	0.70	21.22	0.42
3.233	0.57	9.233	3.16	15.233	0.70	21.23	0.42
3.250	0.57	9.250	3.16	15.250	0.70	21.25	0.42
3.267	0.57	9.267	3.16	15.267	0.70	21.27	0.42
3.283	0.57	9.283	3.16	15.283	0.70	21.28	0.42
3.300	0.57	9.300	3.16	15.300	0.70	21.30	0.42
3.317	0.57	9.317	3.16	15.317	0.70	21.32	0.42
3.333	0.57	9.333	3.16	15.333	0.70	21.33	0.42
3.350	0.59	9.350	2.83	15.350	0.69	21.35	0.42
3.367	0.59	9.367	2.83	15.367	0.69	21.37	0.42
3.383	0.59	9.383	2.83	15.383	0.69	21.38	0.42
3.400	0.59	9.400	2.83	15.400	0.69	21.40	0.42
3.417	0.59	9.417	2.83	15.417	0.69	21.42	0.42
3.433	0.59	9.433	2.83	15.433	0.69	21.43	0.42
3.450	0.59	9.450	2.83	15.450	0.69	21.45	0.42
3.467	0.59	9.467	2.83	15.467	0.69	21.47	0.42
3.483	0.59	9.483	2.83	15.483	0.69	21.48	0.42
3.500	0.59	9.500	2.83	15.500	0.69	21.50	0.42
3.517	0.61	9.517	2.57	15.517	0.67	21.52	0.41
3.533	0.61	9.533	2.57	15.533	0.67	21.53	0.41
3.550	0.61	9.550	2.57	15.550	0.67	21.55	0.41
3.567	0.61	9.567	2.57	15.567	0.67	21.57	0.41
3.583	0.61	9.583	2.57	15.583	0.67	21.58	0.41
3.600	0.61	9.600	2.57	15.600	0.67	21.60	0.41
3.617	0.61	9.617	2.57	15.617	0.67	21.62	0.41
3.633	0.61	9.633	2.57	15.633	0.67	21.63	0.41
3.650	0.61	9.650	2.57	15.650	0.67	21.65	0.41
3.667	0.61	9.667	2.57	15.667	0.67	21.67	0.41
3.683	0.63	9.683	2.36	15.683	0.66	21.68	0.41
3.700	0.63	9.700	2.36	15.700	0.66	21.70	0.41
3.717	0.63	9.717	2.36	15.717	0.66	21.72	0.41
3.733	0.63	9.733	2.36	15.733	0.66	21.73	0.41
3.750	0.63	9.750	2.36	15.750	0.66	21.75	0.41
3.767	0.63	9.767	2.36	15.767	0.66	21.77	0.41
3.783	0.63	9.783	2.36	15.783	0.66	21.78	0.41
3.800	0.63	9.800	2.36	15.800	0.66	21.80	0.41
3.817	0.63	9.817	2.36	15.817	0.66	21.82	0.41
3.833	0.63	9.833	2.35	15.833	0.66	21.83	0.41
3.850	0.65	9.850	2.18	15.850	0.65	21.85	0.41
3.867	0.65	9.867	2.18	15.867	0.65	21.87	0.41
3.883	0.65	9.883	2.18	15.883	0.65	21.88	0.41
3.900	0.65	9.900	2.18	15.900	0.65	21.90	0.41
3.917	0.65	9.917	2.18	15.917	0.65	21.92	0.41
3.933	0.65	9.933	2.18	15.933	0.65	21.93	0.41
3.950	0.65	9.950	2.18	15.950	0.65	21.95	0.41
3.967	0.65	9.967	2.18	15.967	0.65	21.97	0.41
3.983	0.65	9.983	2.18	15.983	0.65	21.98	0.41
4.000	0.65	10.000	2.18	16.000	0.65	22.00	0.41
4.017	0.68	10.017	2.02	16.017	0.64	22.02	0.40
4.033	0.68	10.033	2.02	16.033	0.64	22.03	0.40
4.050	0.68	10.050	2.02	16.050	0.64	22.05	0.40
4.067	0.68	10.067	2.02	16.067	0.64	22.07	0.40
4.083	0.68	10.083	2.02	16.083	0.64	22.08	0.40
4.100	0.68	10.100	2.02	16.100	0.64	22.10	0.40
4.117	0.68	10.117	2.02	16.117	0.64	22.12	0.40
4.133	0.68	10.133	2.02	16.133	0.64	22.13	0.40
4.150	0.68	10.150	2.02	16.150	0.64	22.15	0.40
4.167	0.68	10.167	2.02	16.167	0.64	22.17	0.40
4.183	0.71	10.183	1.89	16.183	0.63	22.18	0.40
4.200	0.71	10.200	1.89	16.200	0.63	22.20	0.40
4.217	0.71	10.217	1.89	16.217	0.63	22.22	0.40
4.233	0.71	10.233	1.89	16.233	0.63	22.23	0.40
4.250	0.71	10.250	1.89	16.250	0.63	22.25	0.40
4.267	0.71	10.267	1.89	16.267	0.63	22.27	0.40
4.283	0.71	10.283	1.89	16.283	0.63	22.28	0.40
4.300	0.71	10.300	1.89	16.300	0.63	22.30	0.40
4.317	0.71	10.317	1.89	16.317	0.63	22.32	0.40
4.333	0.71	10.333	1.89	16.333	0.63	22.33	0.40
4.350	0.73	10.350	1.78	16.350	0.62	22.35	0.39
4.367	0.73	10.367	1.78	16.367	0.62	22.37	0.39
4.383	0.73	10.383	1.78	16.383	0.62	22.38	0.39
4.400	0.73	10.400	1.78	16.400	0.62	22.40	0.39
4.417	0.73	10.417	1.78	16.417	0.62	22.42	0.39
4.433	0.73	10.433	1.78	16.433	0.62	22.43	0.39
4.450	0.73	10.450	1.78	16.450	0.62	22.45	0.39
4.467	0.73	10.467	1.78	16.467	0.62	22.47	0.39
4.483	0.73	10.483	1.78	16.483	0.62	22.48	0.39
4.500	0.73	10.500	1.78	16.500	0.62	22.50	0.39
4.517	0.77	10.517	1.68	16.517	0.61	22.52	0.39
4.533	0.77	10.533	1.68	16.533	0.61	22.53	0.39
4.550	0.77	10.550	1.68	16.550	0.61	22.55	0.39
4.567	0.77	10.567	1.68	16.567	0.61	22.57	0.39
4.583	0.77	10.583	1.68	16.583	0.61	22.58	0.39
4.600	0.77	10.600	1.68	16.600	0.61	22.60	0.39
4.617	0.77	10.617	1.68	16.617	0.61	22.62	0.39
4.633	0.77	10.633	1.68	16.633	0.61	22.63	0.39
4.650	0.77	10.650	1.68	16.650	0.61	22.65	0.39
4.667	0.77	10.667	1.68	16.667	0.61	22.67	0.39
4.683	0.80	10.683	1.59	16.683	0.60	22.68	0.39
4.700	0.80	10.700	1.59	16.700	0.60	22.70	0.39
4.717	0.80	10.717	1.59	16.717	0.60	22.72	0.39
4.733	0.80	10.733	1.59	16.733	0.60	22.73	0.39
4.750	0.80	10.750	1.59	16.750	0.60	22.75	0.39
4.767	0.80	10.767	1.59	16.767	0.60	22.77	0.39
4.783	0.80	10.783	1.59	16.783	0.60	22.78	0.39
4.800	0.80	10.800	1.59	16.800	0.60	22.80	0.39
4.817	0.80	10.817	1.59	16.817	0.60	22.82	0.39
4.833	0.80	10.833	1.59	16.833	0.60	22.83	0.39
4.850	0.84	10.850	1.51	16.850	0.59	22.85	0.38
4.867	0.84	10.867	1.51	16.867	0.59	22.87	0.38
4.883	0.84	10.883	1.51	16.883	0.59	22.88	0.38
4.900	0.84	10.900	1.51	16.900	0.59	22.90	0.38
4.917	0.84	10.917	1.51	16.917	0.59	22.92	0.38
4.933	0.84	10.933	1.51	16.933	0.59	22.93	0.38
4.950	0.84	10.950	1.51	16.950	0.59	22.95	0.38
4.967	0.84	10.967	1.51	16.967	0.59	22.97	0.38
4.983	0.84	10.983	1.51	16.983	0.59	22.98	0.38
5.000	0.84	11.000	1.51	17.000	0.59	23.00	0.38
5.017	0.88	11.017	1.44	17.017	0.58	23.02	0.38
5.033	0.88	11.033	1.44	17.033	0.58	23.03	0.38
5.050	0.88	11.050	1.44	17.050	0.58	23.05	0.38
5.067	0.88	11.067	1.44	17.067	0.58	23.07	0.38
5.083	0.88	11.083	1.44	17.083	0.58	23.08	0.38
5.100	0.88	11.100	1.44	17.100	0.58	23.10	0.38
5.117	0.88	11.117	1.44	17.117	0.58	23.12	0.38
5.133	0.88	11.133	1.44	17.133	0.58	23.13	0.38
5.150	0.88	11.150	1.44	17.150	0.58	23.15	0.38
5.167	0.88	11.167	1.44	17.167	0.58	23.17	0.38
5.183	0.93	11.183	1.38	17.183	0.57	23.18	0.38
5.200	0.93	11.200	1.38	17.200	0.57	23.20	0.38
5.217	0.93	11.217	1.38	17.217	0.57	23.22	0.38
5.233	0.93	11.233	1.38	17.233	0.57	23.23	0.38
5.250	0.93	11.250	1.38	17.250	0.57	23.25	0.38
5.267	0.93	11.267	1.38	17.267	0.57	23.27	0.38
5.283	0.93	11.283	1.38	17.283	0.57	23.28	0.38
5.300	0.93	11.300	1.38	17.300	0.57	23.30	0.38
5.317	0.93	11.317	1.38	17.317	0.57	23.32	0.38
5.333	0.93	11.333	1.38	17.333	0.57	23.33	0.38
5.350	0.98	11.350	1.32	17.350	0.56	23.35	0.37
5.367	0.98	11.367	1.32	17.367	0.56	23.37	0.37
5.383	0.98	11.383	1.32	17.383	0.56	23.38	0.37
5.400	0.98	11.400	1.32	17.400	0.56	23.40	0.37
5.417	0.98	11.417	1.32	17.417	0.56	23.42	0.37
5.433	0.98	11.433	1.32	17.433	0.56	23.43	0.37
5.450	0.98	11.450	1.32	17.450	0.56	23.45	0.37
5.467	0.98	11.467	1.32	17.467	0.56	23.47	0.37
5.483	0.98	11.483	1.32	17.483	0.56	23.48	0.37
5.500	0.98	11.500	1.32	17.500	0.56	23.50	0.37
5.517	1.04	11.517	1.27	17.517	0.55	23.52	0.37
5.533	1.04	11.533	1.27	17.533	0.55	23.53	0.37
5.550	1.04	11.550	1.27	17.550	0.55	23.55	0.37
5.567	1.04	11.567	1.27	17.567	0.55	23.57	0.37
5.583	1.04	11.583	1.27	17.583	0.55	23.58	0.37
5.600	1.04	11.600	1.27	17.600	0.55	23.60	0.37
5.617	1.04	11.617	1.27	17.617	0.55	23.62	0.37
5.633	1.04	11.633	1.27	17.633	0.55	23.63	0.37
5.650	1.04	11.650	1.27	17.650	0.55	23.65	0.37
5.667	1.05	11.667	1.27	17.667	0.55	23.67	0.37
5.683	1.12	11.683	1.22	17.683	0.55	23.68	0.37
5.700	1.12	11.700	1.22	17.700	0.55	23.70	0.37
5.717	1.12	11.717	1.22	17.717	0.55	23.72	0.37
5.733	1.12	11.733	1.22	17.733	0.55	23.73	0.37
5.750	1.12	11.750	1.22	17.750	0.55	23.75	0.37
5.767	1.12	11.767	1.22	17.767	0.55	23.77	0.37
5.783	1.12	11.783	1.22	17.783	0.55	23.78	0.37
5.800	1.12	11.800	1.22	17.800	0.55	23.80	0.37
5.817	1.12	11.817	1.22	17.817	0.55	23.82	0.37
5.833	1.12	11.833	1.22	17.833	0.55	23.83	0.37
5.850	1.20	11.850	1.18	17.850	0.54	23.85	0.36
5.867	1.20	11.867	1.18	17.867	0.54	23.87	0.36
5.883	1.20	11.883	1.18	17.883	0.54	23.88	0.36
5.900	1.20	11.900	1.18	17.900	0.54	23.90	0.36
5.917	1.20	11.917	1.18	17.917	0.54	23.92	0.36
5.933	1.20	11.933	1.18	17.933	0.54	23.93	0.36
5.950	1.20	11.950	1.18	17.950	0.54	23.95	0.36
5.967	1.20	11.967	1.18	17.967	0.54	23.97	0.36
5.983	1.20	11.983	1.18	17.983	0.54	23.98	0.36
6.000	1.20	12.000	1.18	18.000	0.54	24.00	0.36

Max.Eff.Inten.(mm/hr)=	80.06	31.43	
over (min)	5.00	5.00	
Storage Coeff. (min)=	3.28 (ii)	4.51 (ii)	
Unit Hyd. Tpeak (min)=	5.00	5.00	
Unit Hyd. peak (cms)=	0.29	0.24	
			TOTALS
PEAK FLOW (cms)=	0.52	0.00	0.519 (iii)
TIME TO PEAK (hrs)=	8.00	8.03	8.00
RUNOFF VOLUME (mm)=	46.69	20.83	46.44
TOTAL RAINFALL (mm)=	47.70	47.70	47.70
RUNOFF COEFFICIENT =	0.98	0.44	0.97

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 85.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0012) 1 + 2 = 3	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0010):	15.53	2.550	8.03	44.11
+ ID2= 2 (0013):	2.56	0.519	8.00	46.44
ID = 3 (0012):	18.09	3.050	8.03	44.44

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```
--------------------------------------------------------------------------------
--------------------
| RESERVOIR(  0011)|     OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT=  1.0 min     |     OUTFLOW    STORAGE   |  OUTFLOW    STORAGE
--------------------      (cms)     (ha.m.)   |  (cms)     (ha.m.)
                          0.0000      0.0000   |   2.8110      0.4813
                          0.0590      0.3542   |   3.2550      0.5511
                          1.5560      0.3695   |   4.0320      0.5885
                          2.2770      0.4312   |   4.6420      0.6202

                               AREA     QPEAK     TPEAK       R.V.
                               (ha)     (cms)     (hrs)       (mm)
   INFLOW : ID= 2 (  0012)     18.090      3.050      8.03      44.44
   OUTFLOW: ID= 1 (  0011)     18.090      1.547      8.20      36.26

                  PEAK   FLOW   REDUCTION [Qout/Qin](%)= 50.72
                  TIME SHIFT OF PEAK FLOW         (min)= 10.00
                  MAXIMUM  STORAGE   USED      (ha.m.)=  0.3695

--------------------------------------------------------------------------------
================================================================================
========================

       V    V   I    SSSSS  U   U    A    L              (v 6.2.2019)
       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

        OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
       O   O    T      T    H   H   Y Y   MM MM  O   O
       O   O    T      T    H   H    Y    M   M  O   O
        OOO     T      T    H   H    Y    M   M   OOO
Developed and Distributed by Smart City Water Inc
Copyright 2007 - 2022 Smart City Water Inc
All rights reserved.


                  *****  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\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\277dd6
8a-7ca5-4abc-b4a2-d83b13c0c469\scenari
  Summary filename:
C:\Users\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\277dd6
8a-7ca5-4abc-b4a2-d83b13c0c469\scenari
```

DATE: 01-27-2026 TIME: 01:43:14

USER:

COMMENTS: _____

```
--------------------------------------------------------------------------------
------------------------
  ************************************************
  ** SIMULATION : 3 - 5-Year 24hr Chic- Milton  **
  ************************************************

--------------------
| CHICAGO STORM    |    IDF curve parameters: A= 959.000
| Ptotal= 67.05 mm |                          B=   5.700
--------------------                          C=   0.802
                         used in:   INTENSITY =  A / (t + B)^C

                         Duration of storm  = 24.00 hrs
                         Storm time step    = 10.00 min
                         Time to peak ratio =  0.33
```

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.00	0.57	6.00	1.93	12.00	1.70	18.00	0.81
0.17	0.58	6.17	2.10	12.17	1.64	18.17	0.80
0.33	0.59	6.33	2.30	12.33	1.59	18.33	0.79
0.50	0.60	6.50	2.55	12.50	1.55	18.50	0.78
0.67	0.61	6.67	2.88	12.67	1.50	18.67	0.77
0.83	0.63	6.83	3.31	12.83	1.46	18.83	0.76
1.00	0.64	7.00	3.92	13.00	1.42	19.00	0.75
1.17	0.65	7.17	4.85	13.17	1.38	19.17	0.74
1.33	0.67	7.33	6.45	13.33	1.35	19.33	0.73
1.50	0.68	7.50	9.95	13.50	1.31	19.50	0.72
1.67	0.70	7.67	24.45	13.67	1.28	19.67	0.72
1.83	0.71	7.83	105.25	13.83	1.25	19.83	0.71
2.00	0.73	8.00	32.26	14.00	1.23	20.00	0.70
2.17	0.75	8.17	16.67	14.17	1.20	20.17	0.69
2.33	0.76	8.33	11.31	14.33	1.17	20.33	0.69
2.50	0.78	8.50	8.62	14.50	1.15	20.50	0.68
2.67	0.80	8.67	7.00	14.67	1.13	20.67	0.67
2.83	0.83	8.83	5.92	14.83	1.10	20.83	0.66
3.00	0.85	9.00	5.14	15.00	1.08	21.00	0.66
3.17	0.88	9.17	4.56	15.17	1.06	21.17	0.65
3.33	0.90	9.33	4.11	15.33	1.04	21.33	0.64
3.50	0.93	9.50	3.74	15.50	1.02	21.50	0.64
3.67	0.96	9.67	3.44	15.67	1.01	21.67	0.63
3.83	1.00	9.83	3.19	15.83	0.99	21.83	0.62
4.00	1.03	10.00	2.97	16.00	0.97	22.00	0.62
4.17	1.07	10.17	2.79	16.17	0.96	22.17	0.61
4.33	1.11	10.33	2.63	16.33	0.94	22.33	0.61
4.50	1.16	10.50	2.48	16.50	0.92	22.50	0.60
4.67	1.21	10.67	2.36	16.67	0.91	22.67	0.60
4.83	1.27	10.83	2.25	16.83	0.90	22.83	0.59
5.00	1.33	11.00	2.14	17.00	0.88	23.00	0.59
5.17	1.40	11.17	2.05	17.17	0.87	23.17	0.58
5.33	1.48	11.33	1.97	17.33	0.86	23.33	0.57
5.50	1.57	11.50	1.89	17.50	0.85	23.50	0.57
5.67	1.67	11.67	1.82	17.67	0.83	23.67	0.57
5.83	1.79	11.83	1.76	17.83	0.82	23.83	0.56

```
--------------------------------------------------------------------------------
--------------------
| CALIB            |
| STANDHYD (  0010)|   Area    (ha)=  15.53
|ID= 1 DT= 1.0 min |   Total Imp(%)=  90.00   Dir. Conn.(%)=  90.00
--------------------
                          IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=      13.98         1.55
     Dep. Storage     (mm)=       1.00         5.00
     Average Slope     (%)=       1.00         2.00
     Length            (m)=     321.77        40.00
     Mannings n           =      0.013        0.250

         NOTE:  RAINFALL WAS TRANSFORMED TO   1.0 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
0.017	0.57	6.017	1.93	12.017	1.70	18.02	0.81
0.033	0.57	6.033	1.93	12.033	1.70	18.03	0.81
0.050	0.57	6.050	1.93	12.050	1.70	18.05	0.81
0.067	0.57	6.067	1.93	12.067	1.70	18.07	0.81
0.083	0.57	6.083	1.93	12.083	1.70	18.08	0.81
0.100	0.57	6.100	1.93	12.100	1.70	18.10	0.81
0.117	0.57	6.117	1.93	12.117	1.70	18.12	0.81
0.133	0.57	6.133	1.93	12.133	1.70	18.13	0.81
0.150	0.57	6.150	1.93	12.150	1.70	18.15	0.81
0.167	0.57	6.167	1.93	12.167	1.70	18.17	0.81
0.183	0.58	6.183	2.10	12.183	1.64	18.18	0.80
0.200	0.58	6.200	2.10	12.200	1.64	18.20	0.80
0.217	0.58	6.217	2.10	12.217	1.64	18.22	0.80
0.233	0.58	6.233	2.10	12.233	1.64	18.23	0.80
0.250	0.58	6.250	2.10	12.250	1.64	18.25	0.80
0.267	0.58	6.267	2.10	12.267	1.64	18.27	0.80
0.283	0.58	6.283	2.10	12.283	1.64	18.28	0.80
0.300	0.58	6.300	2.10	12.300	1.64	18.30	0.80
0.317	0.58	6.317	2.10	12.317	1.64	18.32	0.80
0.333	0.58	6.333	2.10	12.333	1.64	18.33	0.80
0.350	0.59	6.350	2.30	12.350	1.59	18.35	0.79
0.367	0.59	6.367	2.30	12.367	1.59	18.37	0.79
0.383	0.59	6.383	2.30	12.383	1.59	18.38	0.79
0.400	0.59	6.400	2.30	12.400	1.59	18.40	0.79
0.417	0.59	6.417	2.30	12.417	1.59	18.42	0.79
0.433	0.59	6.433	2.30	12.433	1.59	18.43	0.79
0.450	0.59	6.450	2.30	12.450	1.59	18.45	0.79
0.467	0.59	6.467	2.30	12.467	1.59	18.47	0.79
0.483	0.59	6.483	2.30	12.483	1.59	18.48	0.79
0.500	0.59	6.500	2.30	12.500	1.59	18.50	0.79
0.517	0.60	6.517	2.55	12.517	1.55	18.52	0.78
0.533	0.60	6.533	2.55	12.533	1.55	18.53	0.78
0.550	0.60	6.550	2.55	12.550	1.55	18.55	0.78
0.567	0.60	6.567	2.55	12.567	1.55	18.57	0.78
0.583	0.60	6.583	2.55	12.583	1.55	18.58	0.78
0.600	0.60	6.600	2.55	12.600	1.55	18.60	0.78
0.617	0.60	6.617	2.55	12.617	1.55	18.62	0.78
0.633	0.60	6.633	2.55	12.633	1.55	18.63	0.78
0.650	0.60	6.650	2.55	12.650	1.55	18.65	0.78
0.667	0.60	6.667	2.55	12.667	1.55	18.67	0.78
0.683	0.61	6.683	2.88	12.683	1.50	18.68	0.77
0.700	0.61	6.700	2.88	12.700	1.50	18.70	0.77
0.717	0.61	6.717	2.88	12.717	1.50	18.72	0.77
0.733	0.61	6.733	2.88	12.733	1.50	18.73	0.77
0.750	0.61	6.750	2.88	12.750	1.50	18.75	0.77
0.767	0.61	6.767	2.88	12.767	1.50	18.77	0.77
0.783	0.61	6.783	2.88	12.783	1.50	18.78	0.77
0.800	0.61	6.800	2.88	12.800	1.50	18.80	0.77
0.817	0.61	6.817	2.88	12.817	1.50	18.82	0.77
0.833	0.61	6.833	2.88	12.833	1.50	18.83	0.77
0.850	0.63	6.850	3.31	12.850	1.46	18.85	0.76
0.867	0.63	6.867	3.31	12.867	1.46	18.87	0.76
0.883	0.63	6.883	3.31	12.883	1.46	18.88	0.76
0.900	0.63	6.900	3.31	12.900	1.46	18.90	0.76
0.917	0.63	6.917	3.31	12.917	1.46	18.92	0.76
0.933	0.63	6.933	3.31	12.933	1.46	18.93	0.76
0.950	0.63	6.950	3.31	12.950	1.46	18.95	0.76
0.967	0.63	6.967	3.31	12.967	1.46	18.97	0.76
0.983	0.63	6.983	3.31	12.983	1.46	18.98	0.76
1.000	0.63	7.000	3.31	13.000	1.46	19.00	0.76
1.017	0.64	7.017	3.92	13.017	1.42	19.02	0.75
1.033	0.64	7.033	3.92	13.033	1.42	19.03	0.75
1.050	0.64	7.050	3.92	13.050	1.42	19.05	0.75
1.067	0.64	7.067	3.92	13.067	1.42	19.07	0.75

1.083	0.64	7.083	3.92	13.083	1.42	19.08	0.75
1.100	0.64	7.100	3.92	13.100	1.42	19.10	0.75
1.117	0.64	7.117	3.92	13.117	1.42	19.12	0.75
1.133	0.64	7.133	3.92	13.133	1.42	19.13	0.75
1.150	0.64	7.150	3.92	13.150	1.42	19.15	0.75
1.167	0.64	7.167	3.92	13.167	1.42	19.17	0.75
1.183	0.65	7.183	4.85	13.183	1.38	19.18	0.74
1.200	0.65	7.200	4.85	13.200	1.38	19.20	0.74
1.217	0.65	7.217	4.85	13.217	1.38	19.22	0.74
1.233	0.65	7.233	4.85	13.233	1.38	19.23	0.74
1.250	0.65	7.250	4.85	13.250	1.38	19.25	0.74
1.267	0.65	7.267	4.85	13.267	1.38	19.27	0.74
1.283	0.65	7.283	4.85	13.283	1.38	19.28	0.74
1.300	0.65	7.300	4.85	13.300	1.38	19.30	0.74
1.317	0.65	7.317	4.85	13.317	1.38	19.32	0.74
1.333	0.65	7.333	4.85	13.333	1.38	19.33	0.74
1.350	0.67	7.350	6.45	13.350	1.35	19.35	0.73
1.367	0.67	7.367	6.45	13.367	1.35	19.37	0.73
1.383	0.67	7.383	6.45	13.383	1.35	19.38	0.73
1.400	0.67	7.400	6.45	13.400	1.35	19.40	0.73
1.417	0.67	7.417	6.45	13.417	1.35	19.42	0.73
1.433	0.67	7.433	6.45	13.433	1.35	19.43	0.73
1.450	0.67	7.450	6.45	13.450	1.35	19.45	0.73
1.467	0.67	7.467	6.45	13.467	1.35	19.47	0.73
1.483	0.67	7.483	6.45	13.483	1.35	19.48	0.73
1.500	0.67	7.500	6.46	13.500	1.35	19.50	0.73
1.517	0.68	7.517	9.95	13.517	1.31	19.52	0.72
1.533	0.68	7.533	9.95	13.533	1.31	19.53	0.72
1.550	0.68	7.550	9.95	13.550	1.31	19.55	0.72
1.567	0.68	7.567	9.95	13.567	1.31	19.57	0.72
1.583	0.68	7.583	9.95	13.583	1.31	19.58	0.72
1.600	0.68	7.600	9.95	13.600	1.31	19.60	0.72
1.617	0.68	7.617	9.95	13.617	1.31	19.62	0.72
1.633	0.68	7.633	9.95	13.633	1.31	19.63	0.72
1.650	0.68	7.650	9.95	13.650	1.31	19.65	0.72
1.667	0.68	7.667	9.99	13.667	1.31	19.67	0.72
1.683	0.70	7.683	24.45	13.683	1.28	19.68	0.72
1.700	0.70	7.700	24.45	13.700	1.28	19.70	0.72
1.717	0.70	7.717	24.45	13.717	1.28	19.72	0.72
1.733	0.70	7.733	24.45	13.733	1.28	19.73	0.72
1.750	0.70	7.750	24.45	13.750	1.28	19.75	0.72
1.767	0.70	7.767	24.45	13.767	1.28	19.77	0.72
1.783	0.70	7.783	24.45	13.783	1.28	19.78	0.72
1.800	0.70	7.800	24.45	13.800	1.28	19.80	0.72
1.817	0.70	7.817	24.45	13.817	1.28	19.82	0.72
1.833	0.70	7.833	24.68	13.833	1.28	19.83	0.72
1.850	0.71	7.850	105.25	13.850	1.25	19.85	0.71
1.867	0.71	7.867	105.25	13.867	1.25	19.87	0.71
1.883	0.71	7.883	105.25	13.883	1.25	19.88	0.71
1.900	0.71	7.900	105.25	13.900	1.25	19.90	0.71
1.917	0.71	7.917	105.25	13.917	1.25	19.92	0.71
1.933	0.71	7.933	105.25	13.933	1.25	19.93	0.71
1.950	0.71	7.950	105.25	13.950	1.25	19.95	0.71
1.967	0.71	7.967	105.25	13.967	1.25	19.97	0.71
1.983	0.71	7.983	105.25	13.983	1.25	19.98	0.71
2.000	0.71	8.000	105.04	14.000	1.25	20.00	0.71
2.017	0.73	8.017	32.26	14.017	1.23	20.02	0.70
2.033	0.73	8.033	32.26	14.033	1.23	20.03	0.70
2.050	0.73	8.050	32.26	14.050	1.23	20.05	0.70
2.067	0.73	8.067	32.26	14.067	1.23	20.07	0.70
2.083	0.73	8.083	32.26	14.083	1.23	20.08	0.70
2.100	0.73	8.100	32.26	14.100	1.23	20.10	0.70
2.117	0.73	8.117	32.26	14.117	1.23	20.12	0.70
2.133	0.73	8.133	32.26	14.133	1.23	20.13	0.70
2.150	0.73	8.150	32.26	14.150	1.23	20.15	0.70
2.167	0.73	8.167	32.21	14.167	1.23	20.17	0.70
2.183	0.75	8.183	16.67	14.183	1.20	20.18	0.69
2.200	0.75	8.200	16.67	14.200	1.20	20.20	0.69
2.217	0.75	8.217	16.67	14.217	1.20	20.22	0.69
2.233	0.75	8.233	16.67	14.233	1.20	20.23	0.69
2.250	0.75	8.250	16.67	14.250	1.20	20.25	0.69
2.267	0.75	8.267	16.67	14.267	1.20	20.27	0.69
2.283	0.75	8.283	16.67	14.283	1.20	20.28	0.69
2.300	0.75	8.300	16.67	14.300	1.20	20.30	0.69
2.317	0.75	8.317	16.67	14.317	1.20	20.32	0.69
2.333	0.75	8.333	16.66	14.333	1.20	20.33	0.69
2.350	0.76	8.350	11.31	14.350	1.17	20.35	0.69
2.367	0.76	8.367	11.31	14.367	1.17	20.37	0.69
2.383	0.76	8.383	11.31	14.383	1.17	20.38	0.69
2.400	0.76	8.400	11.31	14.400	1.17	20.40	0.69
2.417	0.76	8.417	11.31	14.417	1.17	20.42	0.69
2.433	0.76	8.433	11.31	14.433	1.17	20.43	0.69
2.450	0.76	8.450	11.31	14.450	1.17	20.45	0.69
2.467	0.76	8.467	11.31	14.467	1.17	20.47	0.69
2.483	0.76	8.483	11.31	14.483	1.17	20.48	0.69
2.500	0.76	8.500	11.30	14.500	1.17	20.50	0.69
2.517	0.78	8.517	8.62	14.517	1.15	20.52	0.68
2.533	0.78	8.533	8.62	14.533	1.15	20.53	0.68
2.550	0.78	8.550	8.62	14.550	1.15	20.55	0.68
2.567	0.78	8.567	8.62	14.567	1.15	20.57	0.68
2.583	0.78	8.583	8.62	14.583	1.15	20.58	0.68
2.600	0.78	8.600	8.62	14.600	1.15	20.60	0.68
2.617	0.78	8.617	8.62	14.617	1.15	20.62	0.68
2.633	0.78	8.633	8.62	14.633	1.15	20.63	0.68
2.650	0.78	8.650	8.62	14.650	1.15	20.65	0.68
2.667	0.78	8.667	8.61	14.667	1.15	20.67	0.68
2.683	0.80	8.683	7.00	14.683	1.13	20.68	0.67
2.700	0.80	8.700	7.00	14.700	1.13	20.70	0.67
2.717	0.80	8.717	7.00	14.717	1.13	20.72	0.67
2.733	0.80	8.733	7.00	14.733	1.13	20.73	0.67
2.750	0.80	8.750	7.00	14.750	1.13	20.75	0.67
2.767	0.80	8.767	7.00	14.767	1.13	20.77	0.67
2.783	0.80	8.783	7.00	14.783	1.13	20.78	0.67
2.800	0.80	8.800	7.00	14.800	1.13	20.80	0.67
2.817	0.80	8.817	7.00	14.817	1.13	20.82	0.67
2.833	0.80	8.833	7.00	14.833	1.13	20.83	0.67
2.850	0.83	8.850	5.92	14.850	1.10	20.85	0.66
2.867	0.83	8.867	5.92	14.867	1.10	20.87	0.66
2.883	0.83	8.883	5.92	14.883	1.10	20.88	0.66
2.900	0.83	8.900	5.92	14.900	1.10	20.90	0.66
2.917	0.83	8.917	5.92	14.917	1.10	20.92	0.66
2.933	0.83	8.933	5.92	14.933	1.10	20.93	0.66
2.950	0.83	8.950	5.92	14.950	1.10	20.95	0.66
2.967	0.83	8.967	5.92	14.967	1.10	20.97	0.66
2.983	0.83	8.983	5.92	14.983	1.10	20.98	0.66
3.000	0.83	9.000	5.92	15.000	1.10	21.00	0.66
3.017	0.85	9.017	5.14	15.017	1.08	21.02	0.66
3.033	0.85	9.033	5.14	15.033	1.08	21.03	0.66
3.050	0.85	9.050	5.14	15.050	1.08	21.05	0.66
3.067	0.85	9.067	5.14	15.067	1.08	21.07	0.66
3.083	0.85	9.083	5.14	15.083	1.08	21.08	0.66
3.100	0.85	9.100	5.14	15.100	1.08	21.10	0.66
3.117	0.85	9.117	5.14	15.117	1.08	21.12	0.66
3.133	0.85	9.133	5.14	15.133	1.08	21.13	0.66
3.150	0.85	9.150	5.14	15.150	1.08	21.15	0.66
3.167	0.85	9.167	5.14	15.167	1.08	21.17	0.66
3.183	0.88	9.183	4.56	15.183	1.06	21.18	0.65
3.200	0.88	9.200	4.56	15.200	1.06	21.20	0.65
3.217	0.88	9.217	4.56	15.217	1.06	21.22	0.65
3.233	0.88	9.233	4.56	15.233	1.06	21.23	0.65
3.250	0.88	9.250	4.56	15.250	1.06	21.25	0.65
3.267	0.88	9.267	4.56	15.267	1.06	21.27	0.65
3.283	0.88	9.283	4.56	15.283	1.06	21.28	0.65
3.300	0.88	9.300	4.56	15.300	1.06	21.30	0.65
3.317	0.88	9.317	4.56	15.317	1.06	21.32	0.65
3.333	0.88	9.333	4.56	15.333	1.06	21.33	0.65
3.350	0.90	9.350	4.11	15.350	1.04	21.35	0.64
3.367	0.90	9.367	4.11	15.367	1.04	21.37	0.64
3.383	0.90	9.383	4.11	15.383	1.04	21.38	0.64
3.400	0.90	9.400	4.11	15.400	1.04	21.40	0.64
3.417	0.90	9.417	4.11	15.417	1.04	21.42	0.64
3.433	0.90	9.433	4.11	15.433	1.04	21.43	0.64
3.450	0.90	9.450	4.11	15.450	1.04	21.45	0.64
3.467	0.90	9.467	4.11	15.467	1.04	21.47	0.64
3.483	0.90	9.483	4.11	15.483	1.04	21.48	0.64
3.500	0.90	9.500	4.10	15.500	1.04	21.50	0.64
3.517	0.93	9.517	3.74	15.517	1.02	21.52	0.64
3.533	0.93	9.533	3.74	15.533	1.02	21.53	0.64
3.550	0.93	9.550	3.74	15.550	1.02	21.55	0.64
3.567	0.93	9.567	3.74	15.567	1.02	21.57	0.64
3.583	0.93	9.583	3.74	15.583	1.02	21.58	0.64
3.600	0.93	9.600	3.74	15.600	1.02	21.60	0.64
3.617	0.93	9.617	3.74	15.617	1.02	21.62	0.64
3.633	0.93	9.633	3.74	15.633	1.02	21.63	0.64
3.650	0.93	9.650	3.74	15.650	1.02	21.65	0.64
3.667	0.93	9.667	3.74	15.667	1.02	21.67	0.64
3.683	0.96	9.683	3.44	15.683	1.01	21.68	0.63
3.700	0.96	9.700	3.44	15.700	1.01	21.70	0.63
3.717	0.96	9.717	3.44	15.717	1.01	21.72	0.63
3.733	0.96	9.733	3.44	15.733	1.01	21.73	0.63
3.750	0.96	9.750	3.44	15.750	1.01	21.75	0.63
3.767	0.96	9.767	3.44	15.767	1.01	21.77	0.63
3.783	0.96	9.783	3.44	15.783	1.01	21.78	0.63
3.800	0.96	9.800	3.44	15.800	1.01	21.80	0.63
3.817	0.96	9.817	3.44	15.817	1.01	21.82	0.63
3.833	0.96	9.833	3.44	15.833	1.01	21.83	0.63
3.850	1.00	9.850	3.19	15.850	0.99	21.85	0.62
3.867	1.00	9.867	3.19	15.867	0.99	21.87	0.62
3.883	1.00	9.883	3.19	15.883	0.99	21.88	0.62
3.900	1.00	9.900	3.19	15.900	0.99	21.90	0.62
3.917	1.00	9.917	3.19	15.917	0.99	21.92	0.62
3.933	1.00	9.933	3.19	15.933	0.99	21.93	0.62
3.950	1.00	9.950	3.19	15.950	0.99	21.95	0.62
3.967	1.00	9.967	3.19	15.967	0.99	21.97	0.62
3.983	1.00	9.983	3.19	15.983	0.99	21.98	0.62
4.000	1.00	10.000	3.19	16.000	0.99	22.00	0.62
4.017	1.03	10.017	2.97	16.017	0.97	22.02	0.62
4.033	1.03	10.033	2.97	16.033	0.97	22.03	0.62
4.050	1.03	10.050	2.97	16.050	0.97	22.05	0.62
4.067	1.03	10.067	2.97	16.067	0.97	22.07	0.62
4.083	1.03	10.083	2.97	16.083	0.97	22.08	0.62
4.100	1.03	10.100	2.97	16.100	0.97	22.10	0.62
4.117	1.03	10.117	2.97	16.117	0.97	22.12	0.62
4.133	1.03	10.133	2.97	16.133	0.97	22.13	0.62
4.150	1.03	10.150	2.97	16.150	0.97	22.15	0.62
4.167	1.03	10.167	2.97	16.167	0.97	22.17	0.62
4.183	1.07	10.183	2.79	16.183	0.96	22.18	0.61
4.200	1.07	10.200	2.79	16.200	0.96	22.20	0.61
4.217	1.07	10.217	2.79	16.217	0.96	22.22	0.61
4.233	1.07	10.233	2.79	16.233	0.96	22.23	0.61
4.250	1.07	10.250	2.79	16.250	0.96	22.25	0.61
4.267	1.07	10.267	2.79	16.267	0.96	22.27	0.61
4.283	1.07	10.283	2.79	16.283	0.96	22.28	0.61
4.300	1.07	10.300	2.79	16.300	0.96	22.30	0.61
4.317	1.07	10.317	2.79	16.317	0.96	22.32	0.61
4.333	1.07	10.333	2.79	16.333	0.96	22.33	0.61
4.350	1.11	10.350	2.63	16.350	0.94	22.35	0.61
4.367	1.11	10.367	2.63	16.367	0.94	22.37	0.61
4.383	1.11	10.383	2.63	16.383	0.94	22.38	0.61
4.400	1.11	10.400	2.63	16.400	0.94	22.40	0.61

4.417	1.11	10.417	2.63	16.417	0.94	22.42	0.61
4.433	1.11	10.433	2.63	16.433	0.94	22.43	0.61
4.450	1.11	10.450	2.63	16.450	0.94	22.45	0.61
4.467	1.11	10.467	2.63	16.467	0.94	22.47	0.61
4.483	1.11	10.483	2.63	16.483	0.94	22.48	0.61
4.500	1.11	10.500	2.62	16.500	0.94	22.50	0.61
4.517	1.16	10.517	2.48	16.517	0.92	22.52	0.60
4.533	1.16	10.533	2.48	16.533	0.92	22.53	0.60
4.550	1.16	10.550	2.48	16.550	0.92	22.55	0.60
4.567	1.16	10.567	2.48	16.567	0.92	22.57	0.60
4.583	1.16	10.583	2.48	16.583	0.92	22.58	0.60
4.600	1.16	10.600	2.48	16.600	0.92	22.60	0.60
4.617	1.16	10.617	2.48	16.617	0.92	22.62	0.60
4.633	1.16	10.633	2.48	16.633	0.92	22.63	0.60
4.650	1.16	10.650	2.48	16.650	0.92	22.65	0.60
4.667	1.16	10.667	2.48	16.667	0.92	22.67	0.60
4.683	1.21	10.683	2.36	16.683	0.91	22.68	0.60
4.700	1.21	10.700	2.36	16.700	0.91	22.70	0.60
4.717	1.21	10.717	2.36	16.717	0.91	22.72	0.60
4.733	1.21	10.733	2.36	16.733	0.91	22.73	0.60
4.750	1.21	10.750	2.36	16.750	0.91	22.75	0.60
4.767	1.21	10.767	2.36	16.767	0.91	22.77	0.60
4.783	1.21	10.783	2.36	16.783	0.91	22.78	0.60
4.800	1.21	10.800	2.36	16.800	0.91	22.80	0.60
4.817	1.21	10.817	2.36	16.817	0.91	22.82	0.60
4.833	1.21	10.833	2.36	16.833	0.91	22.83	0.60
4.850	1.27	10.850	2.25	16.850	0.90	22.85	0.59
4.867	1.27	10.867	2.25	16.867	0.90	22.87	0.59
4.883	1.27	10.883	2.25	16.883	0.90	22.88	0.59
4.900	1.27	10.900	2.25	16.900	0.90	22.90	0.59
4.917	1.27	10.917	2.25	16.917	0.90	22.92	0.59
4.933	1.27	10.933	2.25	16.933	0.90	22.93	0.59
4.950	1.27	10.950	2.25	16.950	0.90	22.95	0.59
4.967	1.27	10.967	2.25	16.967	0.90	22.97	0.59
4.983	1.27	10.983	2.25	16.983	0.90	22.98	0.59
5.000	1.27	11.000	2.25	17.000	0.90	23.00	0.59
5.017	1.33	11.017	2.14	17.017	0.88	23.02	0.59
5.033	1.33	11.033	2.14	17.033	0.88	23.03	0.59
5.050	1.33	11.050	2.14	17.050	0.88	23.05	0.59
5.067	1.33	11.067	2.14	17.067	0.88	23.07	0.59
5.083	1.33	11.083	2.14	17.083	0.88	23.08	0.59
5.100	1.33	11.100	2.14	17.100	0.88	23.10	0.59
5.117	1.33	11.117	2.14	17.117	0.88	23.12	0.59
5.133	1.33	11.133	2.14	17.133	0.88	23.13	0.59
5.150	1.33	11.150	2.14	17.150	0.88	23.15	0.59
5.167	1.33	11.167	2.14	17.167	0.88	23.17	0.59
5.183	1.40	11.183	2.05	17.183	0.87	23.18	0.58
5.200	1.40	11.200	2.05	17.200	0.87	23.20	0.58
5.217	1.40	11.217	2.05	17.217	0.87	23.22	0.58
5.233	1.40	11.233	2.05	17.233	0.87	23.23	0.58
5.250	1.40	11.250	2.05	17.250	0.87	23.25	0.58
5.267	1.40	11.267	2.05	17.267	0.87	23.27	0.58
5.283	1.40	11.283	2.05	17.283	0.87	23.28	0.58
5.300	1.40	11.300	2.05	17.300	0.87	23.30	0.58
5.317	1.40	11.317	2.05	17.317	0.87	23.32	0.58
5.333	1.40	11.333	2.05	17.333	0.87	23.33	0.58
5.350	1.48	11.350	1.97	17.350	0.86	23.35	0.57
5.367	1.48	11.367	1.97	17.367	0.86	23.37	0.57
5.383	1.48	11.383	1.97	17.383	0.86	23.38	0.57
5.400	1.48	11.400	1.97	17.400	0.86	23.40	0.57
5.417	1.48	11.417	1.97	17.417	0.86	23.42	0.57
5.433	1.48	11.433	1.97	17.433	0.86	23.43	0.57
5.450	1.48	11.450	1.97	17.450	0.86	23.45	0.57
5.467	1.48	11.467	1.97	17.467	0.86	23.47	0.57
5.483	1.48	11.483	1.97	17.483	0.86	23.48	0.57
5.500	1.48	11.500	1.97	17.500	0.86	23.50	0.57
5.517	1.57	11.517	1.89	17.517	0.85	23.52	0.57
5.533	1.57	11.533	1.89	17.533	0.85	23.53	0.57
5.550	1.57	11.550	1.89	17.550	0.85	23.55	0.57
5.567	1.57	11.567	1.89	17.567	0.85	23.57	0.57
5.583	1.57	11.583	1.89	17.583	0.85	23.58	0.57
5.600	1.57	11.600	1.89	17.600	0.85	23.60	0.57
5.617	1.57	11.617	1.89	17.617	0.85	23.62	0.57
5.633	1.57	11.633	1.89	17.633	0.85	23.63	0.57
5.650	1.57	11.650	1.89	17.650	0.85	23.65	0.57
5.667	1.57	11.667	1.89	17.667	0.85	23.67	0.57
5.683	1.67	11.683	1.82	17.683	0.83	23.68	0.57
5.700	1.67	11.700	1.82	17.700	0.83	23.70	0.57
5.717	1.67	11.717	1.82	17.717	0.83	23.72	0.57
5.733	1.67	11.733	1.82	17.733	0.83	23.73	0.57
5.750	1.67	11.750	1.82	17.750	0.83	23.75	0.57
5.767	1.67	11.767	1.82	17.767	0.83	23.77	0.57
5.783	1.67	11.783	1.82	17.783	0.83	23.78	0.57
5.800	1.67	11.800	1.82	17.800	0.83	23.80	0.57
5.817	1.67	11.817	1.82	17.817	0.83	23.82	0.57
5.833	1.67	11.833	1.82	17.833	0.83	23.83	0.57
5.850	1.79	11.850	1.76	17.850	0.82	23.85	0.56
5.867	1.79	11.867	1.76	17.867	0.82	23.87	0.56
5.883	1.79	11.883	1.76	17.883	0.82	23.88	0.56
5.900	1.79	11.900	1.76	17.900	0.82	23.90	0.56
5.917	1.79	11.917	1.76	17.917	0.82	23.92	0.56
5.933	1.79	11.933	1.76	17.933	0.82	23.93	0.56
5.950	1.79	11.950	1.76	17.950	0.82	23.95	0.56
5.967	1.79	11.967	1.76	17.967	0.82	23.97	0.56
5.983	1.79	11.983	1.76	17.983	0.82	23.98	0.56
6.000	1.79	12.000	1.76	18.000	0.82	24.00	0.56

Max.Eff.Inten.(mm/hr)=	105.25	54.30	
over (min)	5.00	8.00	
Storage Coeff. (min)=	5.05 (ii)	7.92 (ii)	

Unit Hyd. Tpeak (min)=	5.00	8.00	
Unit Hyd. peak (cms)=	0.22	0.14	
			TOTALS
PEAK FLOW (cms)=	3.42	0.16	3.560 (iii)
TIME TO PEAK (hrs)=	8.02	8.08	8.02
RUNOFF VOLUME (mm)=	66.04	36.02	63.04
TOTAL RAINFALL (mm)=	67.05	67.05	67.05
RUNOFF COEFFICIENT =	0.98	0.54	0.94

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 85.0 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			
STANDHYD (0013)	Area (ha)=	2.56	
ID= 1 DT= 1.0 min	Total Imp(%)=	99.00	Dir. Conn.(%)= 99.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	2.53	0.03
Dep. Storage	(mm)=	1.00	5.00
Average Slope	(%)=	1.00	2.00
Length	(m)=	130.64	40.00
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 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
0.017	0.57	6.017	1.93	12.017	1.70	18.02	0.81
0.033	0.57	6.033	1.93	12.033	1.70	18.03	0.81
0.050	0.57	6.050	1.93	12.050	1.70	18.05	0.81
0.067	0.57	6.067	1.93	12.067	1.70	18.07	0.81
0.083	0.57	6.083	1.93	12.083	1.70	18.08	0.81
0.100	0.57	6.100	1.93	12.100	1.70	18.10	0.81
0.117	0.57	6.117	1.93	12.117	1.70	18.12	0.81
0.133	0.57	6.133	1.93	12.133	1.70	18.13	0.81
0.150	0.57	6.150	1.93	12.150	1.70	18.15	0.81
0.167	0.57	6.167	1.93	12.167	1.70	18.17	0.81
0.183	0.58	6.183	2.10	12.183	1.64	18.18	0.80
0.200	0.58	6.200	2.10	12.200	1.64	18.20	0.80
0.217	0.58	6.217	2.10	12.217	1.64	18.22	0.80
0.233	0.58	6.233	2.10	12.233	1.64	18.23	0.80
0.250	0.58	6.250	2.10	12.250	1.64	18.25	0.80
0.267	0.58	6.267	2.10	12.267	1.64	18.27	0.80
0.283	0.58	6.283	2.10	12.283	1.64	18.28	0.80
0.300	0.58	6.300	2.10	12.300	1.64	18.30	0.80
0.317	0.58	6.317	2.10	12.317	1.64	18.32	0.80
0.333	0.58	6.333	2.10	12.333	1.64	18.33	0.80
0.350	0.59	6.350	2.30	12.350	1.59	18.35	0.79
0.367	0.59	6.367	2.30	12.367	1.59	18.37	0.79
0.383	0.59	6.383	2.30	12.383	1.59	18.38	0.79
0.400	0.59	6.400	2.30	12.400	1.59	18.40	0.79
0.417	0.59	6.417	2.30	12.417	1.59	18.42	0.79
0.433	0.59	6.433	2.30	12.433	1.59	18.43	0.79
0.450	0.59	6.450	2.30	12.450	1.59	18.45	0.79
0.467	0.59	6.467	2.30	12.467	1.59	18.47	0.79
0.483	0.59	6.483	2.30	12.483	1.59	18.48	0.79
0.500	0.59	6.500	2.30	12.500	1.59	18.50	0.79
0.517	0.60	6.517	2.55	12.517	1.55	18.52	0.78
0.533	0.60	6.533	2.55	12.533	1.55	18.53	0.78
0.550	0.60	6.550	2.55	12.550	1.55	18.55	0.78
0.567	0.60	6.567	2.55	12.567	1.55	18.57	0.78
0.583	0.60	6.583	2.55	12.583	1.55	18.58	0.78
0.600	0.60	6.600	2.55	12.600	1.55	18.60	0.78
0.617	0.60	6.617	2.55	12.617	1.55	18.62	0.78
0.633	0.60	6.633	2.55	12.633	1.55	18.63	0.78
0.650	0.60	6.650	2.55	12.650	1.55	18.65	0.78
0.667	0.60	6.667	2.55	12.667	1.55	18.67	0.78
0.683	0.61	6.683	2.88	12.683	1.50	18.68	0.77
0.700	0.61	6.700	2.88	12.700	1.50	18.70	0.77
0.717	0.61	6.717	2.88	12.717	1.50	18.72	0.77
0.733	0.61	6.733	2.88	12.733	1.50	18.73	0.77
0.750	0.61	6.750	2.88	12.750	1.50	18.75	0.77
0.767	0.61	6.767	2.88	12.767	1.50	18.77	0.77
0.783	0.61	6.783	2.88	12.783	1.50	18.78	0.77
0.800	0.61	6.800	2.88	12.800	1.50	18.80	0.77
0.817	0.61	6.817	2.88	12.817	1.50	18.82	0.77
0.833	0.61	6.833	2.88	12.833	1.50	18.83	0.77
0.850	0.63	6.850	3.31	12.850	1.46	18.85	0.76
0.867	0.63	6.867	3.31	12.867	1.46	18.87	0.76
0.883	0.63	6.883	3.31	12.883	1.46	18.88	0.76
0.900	0.63	6.900	3.31	12.900	1.46	18.90	0.76
0.917	0.63	6.917	3.31	12.917	1.46	18.92	0.76
0.933	0.63	6.933	3.31	12.933	1.46	18.93	0.76
0.950	0.63	6.950	3.31	12.950	1.46	18.95	0.76
0.967	0.63	6.967	3.31	12.967	1.46	18.97	0.76
0.983	0.63	6.983	3.31	12.983	1.46	18.98	0.76
1.000	0.63	7.000	3.31	13.000	1.46	19.00	0.76
1.017	0.64	7.017	3.92	13.017	1.42	19.02	0.75
1.033	0.64	7.033	3.92	13.033	1.42	19.03	0.75
1.050	0.64	7.050	3.92	13.050	1.42	19.05	0.75
1.067	0.64	7.067	3.92	13.067	1.42	19.07	0.75
1.083	0.64	7.083	3.92	13.083	1.42	19.08	0.75

1.100	0.64	7.100	3.92	13.100	1.42	19.10	0.75
1.117	0.64	7.117	3.92	13.117	1.42	19.12	0.75
1.133	0.64	7.133	3.92	13.133	1.42	19.13	0.75
1.150	0.64	7.150	3.92	13.150	1.42	19.15	0.75
1.167	0.64	7.167	3.92	13.167	1.42	19.17	0.75
1.183	0.65	7.183	4.85	13.183	1.38	19.18	0.74
1.200	0.65	7.200	4.85	13.200	1.38	19.20	0.74
1.217	0.65	7.217	4.85	13.217	1.38	19.22	0.74
1.233	0.65	7.233	4.85	13.233	1.38	19.23	0.74
1.250	0.65	7.250	4.85	13.250	1.38	19.25	0.74
1.267	0.65	7.267	4.85	13.267	1.38	19.27	0.74
1.283	0.65	7.283	4.85	13.283	1.38	19.28	0.74
1.300	0.65	7.300	4.85	13.300	1.38	19.30	0.74
1.317	0.65	7.317	4.85	13.317	1.38	19.32	0.74
1.333	0.65	7.333	4.85	13.333	1.38	19.33	0.74
1.350	0.67	7.350	6.45	13.350	1.35	19.35	0.73
1.367	0.67	7.367	6.45	13.367	1.35	19.37	0.73
1.383	0.67	7.383	6.45	13.383	1.35	19.38	0.73
1.400	0.67	7.400	6.45	13.400	1.35	19.40	0.73
1.417	0.67	7.417	6.45	13.417	1.35	19.42	0.73
1.433	0.67	7.433	6.45	13.433	1.35	19.43	0.73
1.450	0.67	7.450	6.45	13.450	1.35	19.45	0.73
1.467	0.67	7.467	6.45	13.467	1.35	19.47	0.73
1.483	0.67	7.483	6.45	13.483	1.35	19.48	0.73
1.500	0.67	7.500	6.46	13.500	1.35	19.50	0.73
1.517	0.68	7.517	9.95	13.517	1.31	19.52	0.72
1.533	0.68	7.533	9.95	13.533	1.31	19.53	0.72
1.550	0.68	7.550	9.95	13.550	1.31	19.55	0.72
1.567	0.68	7.567	9.95	13.567	1.31	19.57	0.72
1.583	0.68	7.583	9.95	13.583	1.31	19.58	0.72
1.600	0.68	7.600	9.95	13.600	1.31	19.60	0.72
1.617	0.68	7.617	9.95	13.617	1.31	19.62	0.72
1.633	0.68	7.633	9.95	13.633	1.31	19.63	0.72
1.650	0.68	7.650	9.95	13.650	1.31	19.65	0.72
1.667	0.68	7.667	9.99	13.667	1.31	19.67	0.72
1.683	0.70	7.683	24.45	13.683	1.28	19.68	0.72
1.700	0.70	7.700	24.45	13.700	1.28	19.70	0.72
1.717	0.70	7.717	24.45	13.717	1.28	19.72	0.72
1.733	0.70	7.733	24.45	13.733	1.28	19.73	0.72
1.750	0.70	7.750	24.45	13.750	1.28	19.75	0.72
1.767	0.70	7.767	24.45	13.767	1.28	19.77	0.72
1.783	0.70	7.783	24.45	13.783	1.28	19.78	0.72
1.800	0.70	7.800	24.45	13.800	1.28	19.80	0.72
1.817	0.70	7.817	24.45	13.817	1.28	19.82	0.72
1.833	0.70	7.833	24.68	13.833	1.28	19.83	0.72
1.850	0.71	7.850	105.25	13.850	1.25	19.85	0.71
1.867	0.71	7.867	105.25	13.867	1.25	19.87	0.71
1.883	0.71	7.883	105.25	13.883	1.25	19.88	0.71
1.900	0.71	7.900	105.25	13.900	1.25	19.90	0.71
1.917	0.71	7.917	105.25	13.917	1.25	19.92	0.71
1.933	0.71	7.933	105.25	13.933	1.25	19.93	0.71
1.950	0.71	7.950	105.25	13.950	1.25	19.95	0.71
1.967	0.71	7.967	105.25	13.967	1.25	19.97	0.71
1.983	0.71	7.983	105.25	13.983	1.25	19.98	0.71
2.000	0.71	8.000	105.04	14.000	1.25	20.00	0.71
2.017	0.73	8.017	32.26	14.017	1.23	20.02	0.70
2.033	0.73	8.033	32.26	14.033	1.23	20.03	0.70
2.050	0.73	8.050	32.26	14.050	1.23	20.05	0.70
2.067	0.73	8.067	32.26	14.067	1.23	20.07	0.70
2.083	0.73	8.083	32.26	14.083	1.23	20.08	0.70
2.100	0.73	8.100	32.26	14.100	1.23	20.10	0.70
2.117	0.73	8.117	32.26	14.117	1.23	20.12	0.70
2.133	0.73	8.133	32.26	14.133	1.23	20.13	0.70
2.150	0.73	8.150	32.26	14.150	1.23	20.15	0.70
2.167	0.73	8.167	32.21	14.167	1.23	20.17	0.70
2.183	0.75	8.183	16.67	14.183	1.20	20.18	0.69
2.200	0.75	8.200	16.67	14.200	1.20	20.20	0.69
2.217	0.75	8.217	16.67	14.217	1.20	20.22	0.69
2.233	0.75	8.233	16.67	14.233	1.20	20.23	0.69
2.250	0.75	8.250	16.67	14.250	1.20	20.25	0.69
2.267	0.75	8.267	16.67	14.267	1.20	20.27	0.69
2.283	0.75	8.283	16.67	14.283	1.20	20.28	0.69
2.300	0.75	8.300	16.67	14.300	1.20	20.30	0.69
2.317	0.75	8.317	16.67	14.317	1.20	20.32	0.69
2.333	0.75	8.333	16.66	14.333	1.20	20.33	0.69
2.350	0.76	8.350	11.31	14.350	1.17	20.35	0.69
2.367	0.76	8.367	11.31	14.367	1.17	20.37	0.69
2.383	0.76	8.383	11.31	14.383	1.17	20.38	0.69
2.400	0.76	8.400	11.31	14.400	1.17	20.40	0.69
2.417	0.76	8.417	11.31	14.417	1.17	20.42	0.69
2.433	0.76	8.433	11.31	14.433	1.17	20.43	0.69
2.450	0.76	8.450	11.31	14.450	1.17	20.45	0.69
2.467	0.76	8.467	11.31	14.467	1.17	20.47	0.69
2.483	0.76	8.483	11.31	14.483	1.17	20.48	0.69
2.500	0.76	8.500	11.30	14.500	1.17	20.50	0.69
2.517	0.78	8.517	8.62	14.517	1.15	20.52	0.68
2.533	0.78	8.533	8.62	14.533	1.15	20.53	0.68
2.550	0.78	8.550	8.62	14.550	1.15	20.55	0.68
2.567	0.78	8.567	8.62	14.567	1.15	20.57	0.68
2.583	0.78	8.583	8.62	14.583	1.15	20.58	0.68
2.600	0.78	8.600	8.62	14.600	1.15	20.60	0.68
2.617	0.78	8.617	8.62	14.617	1.15	20.62	0.68
2.633	0.78	8.633	8.62	14.633	1.15	20.63	0.68
2.650	0.78	8.650	8.62	14.650	1.15	20.65	0.68
2.667	0.78	8.667	8.61	14.667	1.15	20.67	0.68
2.683	0.80	8.683	7.00	14.683	1.13	20.68	0.67
2.700	0.80	8.700	7.00	14.700	1.13	20.70	0.67
2.717	0.80	8.717	7.00	14.717	1.13	20.72	0.67
2.733	0.80	8.733	7.00	14.733	1.13	20.73	0.67
2.750	0.80	8.750	7.00	14.750	1.13	20.75	0.67
2.767	0.80	8.767	7.00	14.767	1.13	20.77	0.67
2.783	0.80	8.783	7.00	14.783	1.13	20.78	0.67
2.800	0.80	8.800	7.00	14.800	1.13	20.80	0.67
2.817	0.80	8.817	7.00	14.817	1.13	20.82	0.67
2.833	0.80	8.833	7.00	14.833	1.13	20.83	0.67
2.850	0.83	8.850	5.92	14.850	1.10	20.85	0.66
2.867	0.83	8.867	5.92	14.867	1.10	20.87	0.66
2.883	0.83	8.883	5.92	14.883	1.10	20.88	0.66
2.900	0.83	8.900	5.92	14.900	1.10	20.90	0.66
2.917	0.83	8.917	5.92	14.917	1.10	20.92	0.66
2.933	0.83	8.933	5.92	14.933	1.10	20.93	0.66
2.950	0.83	8.950	5.92	14.950	1.10	20.95	0.66
2.967	0.83	8.967	5.92	14.967	1.10	20.97	0.66
2.983	0.83	8.983	5.92	14.983	1.10	20.98	0.66
3.000	0.83	9.000	5.92	15.000	1.10	21.00	0.66
3.017	0.85	9.017	5.14	15.017	1.08	21.02	0.66
3.033	0.85	9.033	5.14	15.033	1.08	21.03	0.66
3.050	0.85	9.050	5.14	15.050	1.08	21.05	0.66
3.067	0.85	9.067	5.14	15.067	1.08	21.07	0.66
3.083	0.85	9.083	5.14	15.083	1.08	21.08	0.66
3.100	0.85	9.100	5.14	15.100	1.08	21.10	0.66
3.117	0.85	9.117	5.14	15.117	1.08	21.12	0.66
3.133	0.85	9.133	5.14	15.133	1.08	21.13	0.66
3.150	0.85	9.150	5.14	15.150	1.08	21.15	0.66
3.167	0.85	9.167	5.14	15.167	1.08	21.17	0.66
3.183	0.88	9.183	4.56	15.183	1.06	21.18	0.65
3.200	0.88	9.200	4.56	15.200	1.06	21.20	0.65
3.217	0.88	9.217	4.56	15.217	1.06	21.22	0.65
3.233	0.88	9.233	4.56	15.233	1.06	21.23	0.65
3.250	0.88	9.250	4.56	15.250	1.06	21.25	0.65
3.267	0.88	9.267	4.56	15.267	1.06	21.27	0.65
3.283	0.88	9.283	4.56	15.283	1.06	21.28	0.65
3.300	0.88	9.300	4.56	15.300	1.06	21.30	0.65
3.317	0.88	9.317	4.56	15.317	1.06	21.32	0.65
3.333	0.88	9.333	4.56	15.333	1.06	21.33	0.65
3.350	0.90	9.350	4.11	15.350	1.04	21.35	0.64
3.367	0.90	9.367	4.11	15.367	1.04	21.37	0.64
3.383	0.90	9.383	4.11	15.383	1.04	21.38	0.64
3.400	0.90	9.400	4.11	15.400	1.04	21.40	0.64
3.417	0.90	9.417	4.11	15.417	1.04	21.42	0.64
3.433	0.90	9.433	4.11	15.433	1.04	21.43	0.64
3.450	0.90	9.450	4.11	15.450	1.04	21.45	0.64
3.467	0.90	9.467	4.11	15.467	1.04	21.47	0.64
3.483	0.90	9.483	4.11	15.483	1.04	21.48	0.64
3.500	0.90	9.500	4.10	15.500	1.04	21.50	0.64
3.517	0.93	9.517	3.74	15.517	1.02	21.52	0.64
3.533	0.93	9.533	3.74	15.533	1.02	21.53	0.64
3.550	0.93	9.550	3.74	15.550	1.02	21.55	0.64
3.567	0.93	9.567	3.74	15.567	1.02	21.57	0.64
3.583	0.93	9.583	3.74	15.583	1.02	21.58	0.64
3.600	0.93	9.600	3.74	15.600	1.02	21.60	0.64
3.617	0.93	9.617	3.74	15.617	1.02	21.62	0.64
3.633	0.93	9.633	3.74	15.633	1.02	21.63	0.64
3.650	0.93	9.650	3.74	15.650	1.02	21.65	0.64
3.667	0.93	9.667	3.74	15.667	1.02	21.67	0.64
3.683	0.96	9.683	3.44	15.683	1.01	21.68	0.63
3.700	0.96	9.700	3.44	15.700	1.01	21.70	0.63
3.717	0.96	9.717	3.44	15.717	1.01	21.72	0.63
3.733	0.96	9.733	3.44	15.733	1.01	21.73	0.63
3.750	0.96	9.750	3.44	15.750	1.01	21.75	0.63
3.767	0.96	9.767	3.44	15.767	1.01	21.77	0.63
3.783	0.96	9.783	3.44	15.783	1.01	21.78	0.63
3.800	0.96	9.800	3.44	15.800	1.01	21.80	0.63
3.817	0.96	9.817	3.44	15.817	1.01	21.82	0.63
3.833	0.96	9.833	3.44	15.833	1.01	21.83	0.63
3.850	1.00	9.850	3.19	15.850	0.99	21.85	0.62
3.867	1.00	9.867	3.19	15.867	0.99	21.87	0.62
3.883	1.00	9.883	3.19	15.883	0.99	21.88	0.62
3.900	1.00	9.900	3.19	15.900	0.99	21.90	0.62
3.917	1.00	9.917	3.19	15.917	0.99	21.92	0.62
3.933	1.00	9.933	3.19	15.933	0.99	21.93	0.62
3.950	1.00	9.950	3.19	15.950	0.99	21.95	0.62
3.967	1.00	9.967	3.19	15.967	0.99	21.97	0.62
3.983	1.00	9.983	3.19	15.983	0.99	21.98	0.62
4.000	1.00	10.000	3.19	16.000	0.99	22.00	0.62
4.017	1.03	10.017	2.97	16.017	0.97	22.02	0.62
4.033	1.03	10.033	2.97	16.033	0.97	22.03	0.62
4.050	1.03	10.050	2.97	16.050	0.97	22.05	0.62
4.067	1.03	10.067	2.97	16.067	0.97	22.07	0.62
4.083	1.03	10.083	2.97	16.083	0.97	22.08	0.62
4.100	1.03	10.100	2.97	16.100	0.97	22.10	0.62
4.117	1.03	10.117	2.97	16.117	0.97	22.12	0.62
4.133	1.03	10.133	2.97	16.133	0.97	22.13	0.62
4.150	1.03	10.150	2.97	16.150	0.97	22.15	0.62
4.167	1.03	10.167	2.97	16.167	0.97	22.17	0.62
4.183	1.07	10.183	2.79	16.183	0.96	22.18	0.61
4.200	1.07	10.200	2.79	16.200	0.96	22.20	0.61
4.217	1.07	10.217	2.79	16.217	0.96	22.22	0.61
4.233	1.07	10.233	2.79	16.233	0.96	22.23	0.61
4.250	1.07	10.250	2.79	16.250	0.96	22.25	0.61
4.267	1.07	10.267	2.79	16.267	0.96	22.27	0.61
4.283	1.07	10.283	2.79	16.283	0.96	22.28	0.61
4.300	1.07	10.300	2.79	16.300	0.96	22.30	0.61
4.317	1.07	10.317	2.79	16.317	0.96	22.32	0.61
4.333	1.07	10.333	2.79	16.333	0.96	22.33	0.61
4.350	1.11	10.350	2.63	16.350	0.94	22.35	0.61
4.367	1.11	10.367	2.63	16.367	0.94	22.37	0.61
4.383	1.11	10.383	2.63	16.383	0.94	22.38	0.61
4.400	1.11	10.400	2.63	16.400	0.94	22.40	0.61
4.417	1.11	10.417	2.63	16.417	0.94	22.42	0.61

4.433	1.11	10.433	2.63	16.433	0.94	22.43	0.61
4.450	1.11	10.450	2.63	16.450	0.94	22.45	0.61
4.467	1.11	10.467	2.63	16.467	0.94	22.47	0.61
4.483	1.11	10.483	2.63	16.483	0.94	22.48	0.61
4.500	1.11	10.500	2.62	16.500	0.94	22.50	0.61
4.517	1.16	10.517	2.48	16.517	0.92	22.52	0.60
4.533	1.16	10.533	2.48	16.533	0.92	22.53	0.60
4.550	1.16	10.550	2.48	16.550	0.92	22.55	0.60
4.567	1.16	10.567	2.48	16.567	0.92	22.57	0.60
4.583	1.16	10.583	2.48	16.583	0.92	22.58	0.60
4.600	1.16	10.600	2.48	16.600	0.92	22.60	0.60
4.617	1.16	10.617	2.48	16.617	0.92	22.62	0.60
4.633	1.16	10.633	2.48	16.633	0.92	22.63	0.60
4.650	1.16	10.650	2.48	16.650	0.92	22.65	0.60
4.667	1.16	10.667	2.48	16.667	0.92	22.67	0.60
4.683	1.21	10.683	2.36	16.683	0.91	22.68	0.60
4.700	1.21	10.700	2.36	16.700	0.91	22.70	0.60
4.717	1.21	10.717	2.36	16.717	0.91	22.72	0.60
4.733	1.21	10.733	2.36	16.733	0.91	22.73	0.60
4.750	1.21	10.750	2.36	16.750	0.91	22.75	0.60
4.767	1.21	10.767	2.36	16.767	0.91	22.77	0.60
4.783	1.21	10.783	2.36	16.783	0.91	22.78	0.60
4.800	1.21	10.800	2.36	16.800	0.91	22.80	0.60
4.817	1.21	10.817	2.36	16.817	0.91	22.82	0.60
4.833	1.21	10.833	2.36	16.833	0.91	22.83	0.60
4.850	1.27	10.850	2.25	16.850	0.90	22.85	0.59
4.867	1.27	10.867	2.25	16.867	0.90	22.87	0.59
4.883	1.27	10.883	2.25	16.883	0.90	22.88	0.59
4.900	1.27	10.900	2.25	16.900	0.90	22.90	0.59
4.917	1.27	10.917	2.25	16.917	0.90	22.92	0.59
4.933	1.27	10.933	2.25	16.933	0.90	22.93	0.59
4.950	1.27	10.950	2.25	16.950	0.90	22.95	0.59
4.967	1.27	10.967	2.25	16.967	0.90	22.97	0.59
4.983	1.27	10.983	2.25	16.983	0.90	22.98	0.59
5.000	1.27	11.000	2.25	17.000	0.90	23.00	0.59
5.017	1.33	11.017	2.14	17.017	0.88	23.02	0.59
5.033	1.33	11.033	2.14	17.033	0.88	23.03	0.59
5.050	1.33	11.050	2.14	17.050	0.88	23.05	0.59
5.067	1.33	11.067	2.14	17.067	0.88	23.07	0.59
5.083	1.33	11.083	2.14	17.083	0.88	23.08	0.59
5.100	1.33	11.100	2.14	17.100	0.88	23.10	0.59
5.117	1.33	11.117	2.14	17.117	0.88	23.12	0.59
5.133	1.33	11.133	2.14	17.133	0.88	23.13	0.59
5.150	1.33	11.150	2.14	17.150	0.88	23.15	0.59
5.167	1.33	11.167	2.14	17.167	0.88	23.17	0.59
5.183	1.40	11.183	2.05	17.183	0.87	23.18	0.58
5.200	1.40	11.200	2.05	17.200	0.87	23.20	0.58
5.217	1.40	11.217	2.05	17.217	0.87	23.22	0.58
5.233	1.40	11.233	2.05	17.233	0.87	23.23	0.58
5.250	1.40	11.250	2.05	17.250	0.87	23.25	0.58
5.267	1.40	11.267	2.05	17.267	0.87	23.27	0.58
5.283	1.40	11.283	2.05	17.283	0.87	23.28	0.58
5.300	1.40	11.300	2.05	17.300	0.87	23.30	0.58
5.317	1.40	11.317	2.05	17.317	0.87	23.32	0.58
5.333	1.40	11.333	2.05	17.333	0.87	23.33	0.58
5.350	1.48	11.350	1.97	17.350	0.86	23.35	0.57
5.367	1.48	11.367	1.97	17.367	0.86	23.37	0.57
5.383	1.48	11.383	1.97	17.383	0.86	23.38	0.57
5.400	1.48	11.400	1.97	17.400	0.86	23.40	0.57
5.417	1.48	11.417	1.97	17.417	0.86	23.42	0.57
5.433	1.48	11.433	1.97	17.433	0.86	23.43	0.57
5.450	1.48	11.450	1.97	17.450	0.86	23.45	0.57
5.467	1.48	11.467	1.97	17.467	0.86	23.47	0.57
5.483	1.48	11.483	1.97	17.483	0.86	23.48	0.57
5.500	1.48	11.500	1.97	17.500	0.86	23.50	0.57
5.517	1.57	11.517	1.89	17.517	0.85	23.52	0.57
5.533	1.57	11.533	1.89	17.533	0.85	23.53	0.57
5.550	1.57	11.550	1.89	17.550	0.85	23.55	0.57
5.567	1.57	11.567	1.89	17.567	0.85	23.57	0.57
5.583	1.57	11.583	1.89	17.583	0.85	23.58	0.57
5.600	1.57	11.600	1.89	17.600	0.85	23.60	0.57
5.617	1.57	11.617	1.89	17.617	0.85	23.62	0.57
5.633	1.57	11.633	1.89	17.633	0.85	23.63	0.57
5.650	1.57	11.650	1.89	17.650	0.85	23.65	0.57
5.667	1.57	11.667	1.89	17.667	0.85	23.67	0.57
5.683	1.67	11.683	1.82	17.683	0.83	23.68	0.57
5.700	1.67	11.700	1.82	17.700	0.83	23.70	0.57
5.717	1.67	11.717	1.82	17.717	0.83	23.72	0.57
5.733	1.67	11.733	1.82	17.733	0.83	23.73	0.57
5.750	1.67	11.750	1.82	17.750	0.83	23.75	0.57
5.767	1.67	11.767	1.82	17.767	0.83	23.77	0.57
5.783	1.67	11.783	1.82	17.783	0.83	23.78	0.57
5.800	1.67	11.800	1.82	17.800	0.83	23.80	0.57
5.817	1.67	11.817	1.82	17.817	0.83	23.82	0.57
5.833	1.67	11.833	1.82	17.833	0.83	23.83	0.57
5.850	1.79	11.850	1.76	17.850	0.82	23.85	0.56
5.867	1.79	11.867	1.76	17.867	0.82	23.87	0.56
5.883	1.79	11.883	1.76	17.883	0.82	23.88	0.56
5.900	1.79	11.900	1.76	17.900	0.82	23.90	0.56
5.917	1.79	11.917	1.76	17.917	0.82	23.92	0.56
5.933	1.79	11.933	1.76	17.933	0.82	23.93	0.56
5.950	1.79	11.950	1.76	17.950	0.82	23.95	0.56
5.967	1.79	11.967	1.76	17.967	0.82	23.97	0.56
5.983	1.79	11.983	1.76	17.983	0.82	23.98	0.56
6.000	1.79	12.000	1.76	18.000	0.82	24.00	0.56

Max.Eff.Inten.(mm/hr)=	105.25	54.30	
over (min)	5.00	5.00	
Storage Coeff. (min)=	2.94 (ii)	4.04 (ii)	
Unit Hyd. Tpeak (min)=	5.00	5.00	

Unit Hyd. peak (cms)=	0.31	0.26	
			TOTALS
PEAK FLOW (cms)=	0.69	0.00	0.697 (iii)
TIME TO PEAK (hrs)=	8.00	8.03	8.00
RUNOFF VOLUME (mm)=	66.04	36.02	65.75
TOTAL RAINFALL (mm)=	67.05	67.05	67.05
RUNOFF COEFFICIENT =	0.99	0.54	0.98

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 85.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0012)		AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3		(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0010):		15.53	3.560	8.02	63.04
+ ID2= 2 (0013):		2.56	0.697	8.00	65.75
ID = 3 (0012):		18.09	4.252	8.02	63.43

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

RESERVOIR(0011)	OVERFLOW IS OFF			
IN= 2---> OUT= 1				
DT= 1.0 min	OUTFLOW	STORAGE	OUTFLOW	STORAGE
	(cms)	(ha.m.)	(cms)	(ha.m.)
	0.0000	0.0000	2.8110	0.4813
	0.0590	0.3542	3.2550	0.5511
	1.5560	0.3695	4.0320	0.5885
	2.2770	0.4312	4.6420	0.6202

	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
INFLOW : ID= 2 (0012)	18.090	4.252	8.02	63.43
OUTFLOW: ID= 1 (0011)	18.090	2.275	8.15	53.96

PEAK FLOW REDUCTION [Qout/Qin](%)= 53.50
TIME SHIFT OF PEAK FLOW (min)= 8.00
MAXIMUM STORAGE USED (ha.m.)= 0.4312

```
      V    V   I    SSSSS  U   U    A    L              (v 6.2.2019)
      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

       OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
      O   O    T      T    H   H   Y Y   MM MM  O   O
      O   O    T      T    H   H    Y    M   M  O   O
       OOO     T      T    H   H    Y    M   M   OOO
Developed and Distributed by Smart City Water Inc
Copyright 2007 - 2022 Smart City Water Inc
All rights reserved.
```

***** 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\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\ef4708e3-322e-4088-93b8-6c58dd9f6e33\scenari
Summary filename:
C:\Users\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\ef4708e3-322e-4088-93b8-6c58dd9f6e33\scenari

DATE: 01-27-2026 TIME: 01:43:14

USER:

COMMENTS: _____

** SIMULATION : 4 - 10-Year 24hr Chic - Milto **

CHICAGO STORM	IDF curve parameters: A=1089.000
Ptotal= 80.06 mm	B= 5.700
	C= 0.795

used in: INTENSITY = A / (t + B)^C

Duration of storm = 24.00 hrs
Storm time step = 10.00 min
Time to peak ratio = 0.33

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.00	0.71	6.00	2.35	12.00	2.08	18.00	1.00
0.17	0.72	6.17	2.55	12.17	2.01	18.17	0.99
0.33	0.73	6.33	2.80	12.33	1.95	18.33	0.97
0.50	0.74	6.50	3.10	12.50	1.89	18.50	0.96
0.67	0.76	6.67	3.49	12.67	1.84	18.67	0.95
0.83	0.77	6.83	4.01	12.83	1.78	18.83	0.94
1.00	0.79	7.00	4.74	13.00	1.74	19.00	0.93
1.17	0.80	7.17	5.85	13.17	1.69	19.17	0.91
1.33	0.82	7.33	7.75	13.33	1.65	19.33	0.90
1.50	0.84	7.50	11.89	13.50	1.61	19.50	0.89
1.67	0.86	7.67	28.81	13.67	1.57	19.67	0.88
1.83	0.88	7.83	121.81	13.83	1.54	19.83	0.87
2.00	0.90	8.00	37.88	14.00	1.50	20.00	0.86
2.17	0.92	8.17	19.77	14.17	1.47	20.17	0.85
2.33	0.94	8.33	13.48	14.33	1.44	20.33	0.84
2.50	0.97	8.50	10.31	14.50	1.41	20.50	0.84
2.67	0.99	8.67	8.40	14.67	1.38	20.67	0.83
2.83	1.02	8.83	7.12	14.83	1.35	20.83	0.82
3.00	1.05	9.00	6.20	15.00	1.33	21.00	0.81
3.17	1.08	9.17	5.51	15.17	1.30	21.17	0.80
3.33	1.11	9.33	4.96	15.33	1.28	21.33	0.79
3.50	1.14	9.50	4.53	15.50	1.26	21.50	0.79
3.67	1.18	9.67	4.17	15.67	1.23	21.67	0.78
3.83	1.22	9.83	3.86	15.83	1.21	21.83	0.77
4.00	1.27	10.00	3.61	16.00	1.19	22.00	0.76
4.17	1.31	10.17	3.38	16.17	1.17	22.17	0.76
4.33	1.37	10.33	3.19	16.33	1.15	22.33	0.75
4.50	1.42	10.50	3.02	16.50	1.14	22.50	0.74
4.67	1.48	10.67	2.87	16.67	1.12	22.67	0.74
4.83	1.55	10.83	2.73	16.83	1.10	22.83	0.73
5.00	1.63	11.00	2.61	17.00	1.09	23.00	0.72
5.17	1.71	11.17	2.50	17.17	1.07	23.17	0.72
5.33	1.81	11.33	2.40	17.33	1.05	23.33	0.71
5.50	1.92	11.50	2.31	17.50	1.04	23.50	0.70
5.67	2.04	11.67	2.23	17.67	1.03	23.67	0.70
5.83	2.18	11.83	2.15	17.83	1.01	23.83	0.69

CALIB
STANDHYD (0010)
ID= 1 DT= 1.0 min

Area (ha)= 15.53
Total Imp(%)= 90.00 Dir. Conn.(%)= 90.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	13.98	1.55
Dep. Storage (mm)=	1.00	5.00
Average Slope (%)=	1.00	2.00
Length (m)=	321.77	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 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
0.017	0.71	6.017	2.35	12.017	2.08	18.02	1.00
0.033	0.71	6.033	2.35	12.033	2.08	18.03	1.00
0.050	0.71	6.050	2.35	12.050	2.08	18.05	1.00
0.067	0.71	6.067	2.35	12.067	2.08	18.07	1.00
0.083	0.71	6.083	2.35	12.083	2.08	18.08	1.00
0.100	0.71	6.100	2.35	12.100	2.08	18.10	1.00
0.117	0.71	6.117	2.35	12.117	2.08	18.12	1.00
0.133	0.71	6.133	2.35	12.133	2.08	18.13	1.00
0.150	0.71	6.150	2.35	12.150	2.08	18.15	1.00
0.167	0.71	6.167	2.35	12.167	2.08	18.17	1.00
0.183	0.72	6.183	2.55	12.183	2.01	18.18	0.99
0.200	0.72	6.200	2.55	12.200	2.01	18.20	0.99
0.217	0.72	6.217	2.55	12.217	2.01	18.22	0.99
0.233	0.72	6.233	2.55	12.233	2.01	18.23	0.99
0.250	0.72	6.250	2.55	12.250	2.01	18.25	0.99
0.267	0.72	6.267	2.55	12.267	2.01	18.27	0.99
0.283	0.72	6.283	2.55	12.283	2.01	18.28	0.99
0.300	0.72	6.300	2.55	12.300	2.01	18.30	0.99
0.317	0.72	6.317	2.55	12.317	2.01	18.32	0.99
0.333	0.72	6.333	2.55	12.333	2.01	18.33	0.99
0.350	0.73	6.350	2.80	12.350	1.95	18.35	0.97
0.367	0.73	6.367	2.80	12.367	1.95	18.37	0.97
0.383	0.73	6.383	2.80	12.383	1.95	18.38	0.97
0.400	0.73	6.400	2.80	12.400	1.95	18.40	0.97
0.417	0.73	6.417	2.80	12.417	1.95	18.42	0.97
0.433	0.73	6.433	2.80	12.433	1.95	18.43	0.97
0.450	0.73	6.450	2.80	12.450	1.95	18.45	0.97
0.467	0.73	6.467	2.80	12.467	1.95	18.47	0.97
0.483	0.73	6.483	2.80	12.483	1.95	18.48	0.97
0.500	0.73	6.500	2.80	12.500	1.95	18.50	0.97
0.517	0.74	6.517	3.10	12.517	1.89	18.52	0.96
0.533	0.74	6.533	3.10	12.533	1.89	18.53	0.96
0.550	0.74	6.550	3.10	12.550	1.89	18.55	0.96
0.567	0.74	6.567	3.10	12.567	1.89	18.57	0.96
0.583	0.74	6.583	3.10	12.583	1.89	18.58	0.96
0.600	0.74	6.600	3.10	12.600	1.89	18.60	0.96
0.617	0.74	6.617	3.10	12.617	1.89	18.62	0.96
0.633	0.74	6.633	3.10	12.633	1.89	18.63	0.96
0.650	0.74	6.650	3.10	12.650	1.89	18.65	0.96
0.667	0.74	6.667	3.10	12.667	1.89	18.67	0.96
0.683	0.76	6.683	3.49	12.683	1.84	18.68	0.95
0.700	0.76	6.700	3.49	12.700	1.84	18.70	0.95
0.717	0.76	6.717	3.49	12.717	1.84	18.72	0.95
0.733	0.76	6.733	3.49	12.733	1.84	18.73	0.95
0.750	0.76	6.750	3.49	12.750	1.84	18.75	0.95
0.767	0.76	6.767	3.49	12.767	1.84	18.77	0.95
0.783	0.76	6.783	3.49	12.783	1.84	18.78	0.95
0.800	0.76	6.800	3.49	12.800	1.84	18.80	0.95
0.817	0.76	6.817	3.49	12.817	1.84	18.82	0.95
0.833	0.76	6.833	3.49	12.833	1.84	18.83	0.95
0.850	0.77	6.850	4.01	12.850	1.78	18.85	0.94
0.867	0.77	6.867	4.01	12.867	1.78	18.87	0.94
0.883	0.77	6.883	4.01	12.883	1.78	18.88	0.94
0.900	0.77	6.900	4.01	12.900	1.78	18.90	0.94
0.917	0.77	6.917	4.01	12.917	1.78	18.92	0.94
0.933	0.77	6.933	4.01	12.933	1.78	18.93	0.94
0.950	0.77	6.950	4.01	12.950	1.78	18.95	0.94
0.967	0.77	6.967	4.01	12.967	1.78	18.97	0.94
0.983	0.77	6.983	4.01	12.983	1.78	18.98	0.94
1.000	0.77	7.000	4.01	13.000	1.78	19.00	0.94
1.017	0.79	7.017	4.74	13.017	1.74	19.02	0.93
1.033	0.79	7.033	4.74	13.033	1.74	19.03	0.93
1.050	0.79	7.050	4.74	13.050	1.74	19.05	0.93
1.067	0.79	7.067	4.74	13.067	1.74	19.07	0.93
1.083	0.79	7.083	4.74	13.083	1.74	19.08	0.93
1.100	0.79	7.100	4.74	13.100	1.74	19.10	0.93
1.117	0.79	7.117	4.74	13.117	1.74	19.12	0.93
1.133	0.79	7.133	4.74	13.133	1.74	19.13	0.93
1.150	0.79	7.150	4.74	13.150	1.74	19.15	0.93
1.167	0.79	7.167	4.74	13.167	1.74	19.17	0.93
1.183	0.80	7.183	5.85	13.183	1.69	19.18	0.91
1.200	0.80	7.200	5.85	13.200	1.69	19.20	0.91
1.217	0.80	7.217	5.85	13.217	1.69	19.22	0.91
1.233	0.80	7.233	5.85	13.233	1.69	19.23	0.91
1.250	0.80	7.250	5.85	13.250	1.69	19.25	0.91
1.267	0.80	7.267	5.85	13.267	1.69	19.27	0.91
1.283	0.80	7.283	5.85	13.283	1.69	19.28	0.91
1.300	0.80	7.300	5.85	13.300	1.69	19.30	0.91
1.317	0.80	7.317	5.85	13.317	1.69	19.32	0.91
1.333	0.80	7.333	5.85	13.333	1.69	19.33	0.91
1.350	0.82	7.350	7.75	13.350	1.65	19.35	0.90
1.367	0.82	7.367	7.75	13.367	1.65	19.37	0.90
1.383	0.82	7.383	7.75	13.383	1.65	19.38	0.90
1.400	0.82	7.400	7.75	13.400	1.65	19.40	0.90
1.417	0.82	7.417	7.75	13.417	1.65	19.42	0.90
1.433	0.82	7.433	7.75	13.433	1.65	19.43	0.90
1.450	0.82	7.450	7.75	13.450	1.65	19.45	0.90
1.467	0.82	7.467	7.75	13.467	1.65	19.47	0.90
1.483	0.82	7.483	7.75	13.483	1.65	19.48	0.90
1.500	0.82	7.500	7.76	13.500	1.65	19.50	0.90
1.517	0.84	7.517	11.89	13.517	1.61	19.52	0.89
1.533	0.84	7.533	11.89	13.533	1.61	19.53	0.89
1.550	0.84	7.550	11.89	13.550	1.61	19.55	0.89
1.567	0.84	7.567	11.89	13.567	1.61	19.57	0.89
1.583	0.84	7.583	11.89	13.583	1.61	19.58	0.89
1.600	0.84	7.600	11.89	13.600	1.61	19.60	0.89
1.617	0.84	7.617	11.89	13.617	1.61	19.62	0.89
1.633	0.84	7.633	11.89	13.633	1.61	19.63	0.89
1.650	0.84	7.650	11.89	13.650	1.61	19.65	0.89
1.667	0.84	7.667	11.93	13.667	1.61	19.67	0.89
1.683	0.86	7.683	28.81	13.683	1.57	19.68	0.88
1.700	0.86	7.700	28.81	13.700	1.57	19.70	0.88
1.717	0.86	7.717	28.81	13.717	1.57	19.72	0.88
1.733	0.86	7.733	28.81	13.733	1.57	19.73	0.88
1.750	0.86	7.750	28.81	13.750	1.57	19.75	0.88
1.767	0.86	7.767	28.81	13.767	1.57	19.77	0.88
1.783	0.86	7.783	28.81	13.783	1.57	19.78	0.88
1.800	0.86	7.800	28.81	13.800	1.57	19.80	0.88
1.817	0.86	7.817	28.81	13.817	1.57	19.82	0.88
1.833	0.86	7.833	29.07	13.833	1.57	19.83	0.88
1.850	0.88	7.850	121.81	13.850	1.54	19.85	0.87
1.867	0.88	7.867	121.81	13.867	1.54	19.87	0.87
1.883	0.88	7.883	121.81	13.883	1.54	19.88	0.87
1.900	0.88	7.900	121.81	13.900	1.54	19.90	0.87
1.917	0.88	7.917	121.81	13.917	1.54	19.92	0.87
1.933	0.88	7.933	121.81	13.933	1.54	19.93	0.87
1.950	0.88	7.950	121.81	13.950	1.54	19.95	0.87
1.967	0.88	7.967	121.81	13.967	1.54	19.97	0.87
1.983	0.88	7.983	121.81	13.983	1.54	19.98	0.87
2.000	0.88	8.000	121.56	14.000	1.54	20.00	0.87
2.017	0.90	8.017	37.88	14.017	1.50	20.02	0.86
2.033	0.90	8.033	37.88	14.033	1.50	20.03	0.86
2.050	0.90	8.050	37.88	14.050	1.50	20.05	0.86
2.067	0.90	8.067	37.88	14.067	1.50	20.07	0.86
2.083	0.90	8.083	37.88	14.083	1.50	20.08	0.86
2.100	0.90	8.100	37.88	14.100	1.50	20.10	0.86
2.117	0.90	8.117	37.88	14.117	1.50	20.12	0.86
2.133	0.90	8.133	37.88	14.133	1.50	20.13	0.86
2.150	0.90	8.150	37.88	14.150	1.50	20.15	0.86
2.167	0.90	8.167	37.83	14.167	1.50	20.17	0.86
2.183	0.92	8.183	19.77	14.183	1.47	20.18	0.85
2.200	0.92	8.200	19.77	14.200	1.47	20.20	0.85
2.217	0.92	8.217	19.77	14.217	1.47	20.22	0.85
2.233	0.92	8.233	19.77	14.233	1.47	20.23	0.85
2.250	0.92	8.250	19.77	14.250	1.47	20.25	0.85
2.267	0.92	8.267	19.77	14.267	1.47	20.27	0.85
2.283	0.92	8.283	19.77	14.283	1.47	20.28	0.85

2.300	0.92	8.300	19.77	14.300	1.47	20.30	0.85
2.317	0.92	8.317	19.77	14.317	1.47	20.32	0.85
2.333	0.92	8.333	19.75	14.333	1.47	20.33	0.85
2.350	0.94	8.350	13.48	14.350	1.44	20.35	0.84
2.367	0.94	8.367	13.48	14.367	1.44	20.37	0.84
2.383	0.94	8.383	13.48	14.383	1.44	20.38	0.84
2.400	0.94	8.400	13.48	14.400	1.44	20.40	0.84
2.417	0.94	8.417	13.48	14.417	1.44	20.42	0.84
2.433	0.94	8.433	13.48	14.433	1.44	20.43	0.84
2.450	0.94	8.450	13.48	14.450	1.44	20.45	0.84
2.467	0.94	8.467	13.48	14.467	1.44	20.47	0.84
2.483	0.94	8.483	13.48	14.483	1.44	20.48	0.84
2.500	0.94	8.500	13.48	14.500	1.44	20.50	0.84
2.517	0.97	8.517	10.31	14.517	1.41	20.52	0.84
2.533	0.97	8.533	10.31	14.533	1.41	20.53	0.84
2.550	0.97	8.550	10.31	14.550	1.41	20.55	0.84
2.567	0.97	8.567	10.31	14.567	1.41	20.57	0.84
2.583	0.97	8.583	10.31	14.583	1.41	20.58	0.84
2.600	0.97	8.600	10.31	14.600	1.41	20.60	0.84
2.617	0.97	8.617	10.31	14.617	1.41	20.62	0.84
2.633	0.97	8.633	10.31	14.633	1.41	20.63	0.84
2.650	0.97	8.650	10.31	14.650	1.41	20.65	0.84
2.667	0.97	8.667	10.31	14.667	1.41	20.67	0.84
2.683	0.99	8.683	8.40	14.683	1.38	20.68	0.83
2.700	0.99	8.700	8.40	14.700	1.38	20.70	0.83
2.717	0.99	8.717	8.40	14.717	1.38	20.72	0.83
2.733	0.99	8.733	8.40	14.733	1.38	20.73	0.83
2.750	0.99	8.750	8.40	14.750	1.38	20.75	0.83
2.767	0.99	8.767	8.40	14.767	1.38	20.77	0.83
2.783	0.99	8.783	8.40	14.783	1.38	20.78	0.83
2.800	0.99	8.800	8.40	14.800	1.38	20.80	0.83
2.817	0.99	8.817	8.40	14.817	1.38	20.82	0.83
2.833	0.99	8.833	8.40	14.833	1.38	20.83	0.83
2.850	1.02	8.850	7.12	14.850	1.35	20.85	0.82
2.867	1.02	8.867	7.12	14.867	1.35	20.87	0.82
2.883	1.02	8.883	7.12	14.883	1.35	20.88	0.82
2.900	1.02	8.900	7.12	14.900	1.35	20.90	0.82
2.917	1.02	8.917	7.12	14.917	1.35	20.92	0.82
2.933	1.02	8.933	7.12	14.933	1.35	20.93	0.82
2.950	1.02	8.950	7.12	14.950	1.35	20.95	0.82
2.967	1.02	8.967	7.12	14.967	1.35	20.97	0.82
2.983	1.02	8.983	7.12	14.983	1.35	20.98	0.82
3.000	1.02	9.000	7.12	15.000	1.35	21.00	0.82
3.017	1.05	9.017	6.20	15.017	1.33	21.02	0.81
3.033	1.05	9.033	6.20	15.033	1.33	21.03	0.81
3.050	1.05	9.050	6.20	15.050	1.33	21.05	0.81
3.067	1.05	9.067	6.20	15.067	1.33	21.07	0.81
3.083	1.05	9.083	6.20	15.083	1.33	21.08	0.81
3.100	1.05	9.100	6.20	15.100	1.33	21.10	0.81
3.117	1.05	9.117	6.20	15.117	1.33	21.12	0.81

3.133	1.05	9.133	6.20	15.133	1.33	21.13	0.81
3.150	1.05	9.150	6.20	15.150	1.33	21.15	0.81
3.167	1.05	9.167	6.20	15.167	1.33	21.17	0.81
3.183	1.08	9.183	5.51	15.183	1.30	21.18	0.80
3.200	1.08	9.200	5.51	15.200	1.30	21.20	0.80
3.217	1.08	9.217	5.51	15.217	1.30	21.22	0.80
3.233	1.08	9.233	5.51	15.233	1.30	21.23	0.80
3.250	1.08	9.250	5.51	15.250	1.30	21.25	0.80
3.267	1.08	9.267	5.51	15.267	1.30	21.27	0.80
3.283	1.08	9.283	5.51	15.283	1.30	21.28	0.80
3.300	1.08	9.300	5.51	15.300	1.30	21.30	0.80
3.317	1.08	9.317	5.51	15.317	1.30	21.32	0.80
3.333	1.08	9.333	5.51	15.333	1.30	21.33	0.80
3.350	1.11	9.350	4.96	15.350	1.28	21.35	0.79
3.367	1.11	9.367	4.96	15.367	1.28	21.37	0.79
3.383	1.11	9.383	4.96	15.383	1.28	21.38	0.79
3.400	1.11	9.400	4.96	15.400	1.28	21.40	0.79
3.417	1.11	9.417	4.96	15.417	1.28	21.42	0.79
3.433	1.11	9.433	4.96	15.433	1.28	21.43	0.79
3.450	1.11	9.450	4.96	15.450	1.28	21.45	0.79
3.467	1.11	9.467	4.96	15.467	1.28	21.47	0.79
3.483	1.11	9.483	4.96	15.483	1.28	21.48	0.79
3.500	1.11	9.500	4.96	15.500	1.28	21.50	0.79
3.517	1.14	9.517	4.53	15.517	1.26	21.52	0.79
3.533	1.14	9.533	4.53	15.533	1.26	21.53	0.79
3.550	1.14	9.550	4.53	15.550	1.26	21.55	0.79
3.567	1.14	9.567	4.53	15.567	1.26	21.57	0.79
3.583	1.14	9.583	4.53	15.583	1.26	21.58	0.79
3.600	1.14	9.600	4.53	15.600	1.26	21.60	0.79
3.617	1.14	9.617	4.53	15.617	1.26	21.62	0.79
3.633	1.14	9.633	4.53	15.633	1.26	21.63	0.79
3.650	1.14	9.650	4.53	15.650	1.26	21.65	0.79
3.667	1.14	9.667	4.53	15.667	1.26	21.67	0.79
3.683	1.18	9.683	4.17	15.683	1.23	21.68	0.78
3.700	1.18	9.700	4.17	15.700	1.23	21.70	0.78
3.717	1.18	9.717	4.17	15.717	1.23	21.72	0.78
3.733	1.18	9.733	4.17	15.733	1.23	21.73	0.78
3.750	1.18	9.750	4.17	15.750	1.23	21.75	0.78
3.767	1.18	9.767	4.17	15.767	1.23	21.77	0.78
3.783	1.18	9.783	4.17	15.783	1.23	21.78	0.78
3.800	1.18	9.800	4.17	15.800	1.23	21.80	0.78
3.817	1.18	9.817	4.17	15.817	1.23	21.82	0.78
3.833	1.18	9.833	4.17	15.833	1.23	21.83	0.78
3.850	1.22	9.850	3.86	15.850	1.21	21.85	0.77
3.867	1.22	9.867	3.86	15.867	1.21	21.87	0.77
3.883	1.22	9.883	3.86	15.883	1.21	21.88	0.77
3.900	1.22	9.900	3.86	15.900	1.21	21.90	0.77
3.917	1.22	9.917	3.86	15.917	1.21	21.92	0.77
3.933	1.22	9.933	3.86	15.933	1.21	21.93	0.77
3.950	1.22	9.950	3.86	15.950	1.21	21.95	0.77

3.967	1.22	9.967	3.86	15.967	1.21	21.97	0.77
3.983	1.22	9.983	3.86	15.983	1.21	21.98	0.77
4.000	1.22	10.000	3.86	16.000	1.21	22.00	0.77
4.017	1.27	10.017	3.61	16.017	1.19	22.02	0.76
4.033	1.27	10.033	3.61	16.033	1.19	22.03	0.76
4.050	1.27	10.050	3.61	16.050	1.19	22.05	0.76
4.067	1.27	10.067	3.61	16.067	1.19	22.07	0.76
4.083	1.27	10.083	3.61	16.083	1.19	22.08	0.76
4.100	1.27	10.100	3.61	16.100	1.19	22.10	0.76
4.117	1.27	10.117	3.61	16.117	1.19	22.12	0.76
4.133	1.27	10.133	3.61	16.133	1.19	22.13	0.76
4.150	1.27	10.150	3.61	16.150	1.19	22.15	0.76
4.167	1.27	10.167	3.61	16.167	1.19	22.17	0.76
4.183	1.31	10.183	3.38	16.183	1.17	22.18	0.76
4.200	1.31	10.200	3.38	16.200	1.17	22.20	0.76
4.217	1.31	10.217	3.38	16.217	1.17	22.22	0.76
4.233	1.31	10.233	3.38	16.233	1.17	22.23	0.76
4.250	1.31	10.250	3.38	16.250	1.17	22.25	0.76
4.267	1.31	10.267	3.38	16.267	1.17	22.27	0.76
4.283	1.31	10.283	3.38	16.283	1.17	22.28	0.76
4.300	1.31	10.300	3.38	16.300	1.17	22.30	0.76
4.317	1.31	10.317	3.38	16.317	1.17	22.32	0.76
4.333	1.31	10.333	3.38	16.333	1.17	22.33	0.76
4.350	1.37	10.350	3.19	16.350	1.16	22.35	0.75
4.367	1.37	10.367	3.19	16.367	1.15	22.37	0.75
4.383	1.37	10.383	3.19	16.383	1.15	22.38	0.75
4.400	1.37	10.400	3.19	16.400	1.15	22.40	0.75
4.417	1.37	10.417	3.19	16.417	1.15	22.42	0.75
4.433	1.37	10.433	3.19	16.433	1.15	22.43	0.75
4.450	1.37	10.450	3.19	16.450	1.15	22.45	0.75
4.467	1.37	10.467	3.19	16.467	1.15	22.47	0.75
4.483	1.37	10.483	3.19	16.483	1.15	22.48	0.75
4.500	1.37	10.500	3.19	16.500	1.15	22.50	0.75
4.517	1.42	10.517	3.02	16.517	1.14	22.52	0.74
4.533	1.42	10.533	3.02	16.533	1.14	22.53	0.74
4.550	1.42	10.550	3.02	16.550	1.14	22.55	0.74
4.567	1.42	10.567	3.02	16.567	1.14	22.57	0.74
4.583	1.42	10.583	3.02	16.583	1.14	22.58	0.74
4.600	1.42	10.600	3.02	16.600	1.14	22.60	0.74
4.617	1.42	10.617	3.02	16.617	1.14	22.62	0.74
4.633	1.42	10.633	3.02	16.633	1.14	22.63	0.74
4.650	1.42	10.650	3.02	16.650	1.14	22.65	0.74
4.667	1.42	10.667	3.02	16.667	1.14	22.67	0.74
4.683	1.48	10.683	2.87	16.683	1.12	22.68	0.74
4.700	1.48	10.700	2.87	16.700	1.12	22.70	0.74
4.717	1.48	10.717	2.87	16.717	1.12	22.72	0.74
4.733	1.48	10.733	2.87	16.733	1.12	22.73	0.74
4.750	1.48	10.750	2.87	16.750	1.12	22.75	0.74
4.767	1.48	10.767	2.87	16.767	1.12	22.77	0.74
4.783	1.48	10.783	2.87	16.783	1.12	22.78	0.74

4.800	1.48	10.800	2.87	16.800	1.12	22.80	0.74
4.817	1.48	10.817	2.87	16.817	1.12	22.82	0.74
4.833	1.48	10.833	2.87	16.833	1.12	22.83	0.74
4.850	1.55	10.850	2.73	16.850	1.10	22.85	0.73
4.867	1.55	10.867	2.73	16.867	1.10	22.87	0.73
4.883	1.55	10.883	2.73	16.883	1.10	22.88	0.73
4.900	1.55	10.900	2.73	16.900	1.10	22.90	0.73
4.917	1.55	10.917	2.73	16.917	1.10	22.92	0.73
4.933	1.55	10.933	2.73	16.933	1.10	22.93	0.73
4.950	1.55	10.950	2.73	16.950	1.10	22.95	0.73
4.967	1.55	10.967	2.73	16.967	1.10	22.97	0.73
4.983	1.55	10.983	2.73	16.983	1.10	22.98	0.73
5.000	1.55	11.000	2.73	17.000	1.10	23.00	0.73
5.017	1.63	11.017	2.61	17.017	1.09	23.02	0.72
5.033	1.63	11.033	2.61	17.033	1.09	23.03	0.72
5.050	1.63	11.050	2.61	17.050	1.09	23.05	0.72
5.067	1.63	11.067	2.61	17.067	1.09	23.07	0.72
5.083	1.63	11.083	2.61	17.083	1.09	23.08	0.72
5.100	1.63	11.100	2.61	17.100	1.09	23.10	0.72
5.117	1.63	11.117	2.61	17.117	1.09	23.12	0.72
5.133	1.63	11.133	2.61	17.133	1.09	23.13	0.72
5.150	1.63	11.150	2.61	17.150	1.09	23.15	0.72
5.167	1.63	11.167	2.61	17.167	1.09	23.17	0.72
5.183	1.71	11.183	2.50	17.183	1.07	23.18	0.72
5.200	1.71	11.200	2.50	17.200	1.07	23.20	0.72
5.217	1.71	11.217	2.50	17.217	1.07	23.22	0.72
5.233	1.71	11.233	2.50	17.233	1.07	23.23	0.72
5.250	1.71	11.250	2.50	17.250	1.07	23.25	0.72
5.267	1.71	11.267	2.50	17.267	1.07	23.27	0.72
5.283	1.71	11.283	2.50	17.283	1.07	23.28	0.72
5.300	1.71	11.300	2.50	17.300	1.07	23.30	0.72
5.317	1.71	11.317	2.50	17.317	1.07	23.32	0.72
5.333	1.71	11.333	2.50	17.333	1.07	23.33	0.72
5.350	1.81	11.350	2.40	17.350	1.06	23.35	0.71
5.367	1.81	11.367	2.40	17.367	1.05	23.37	0.71
5.383	1.81	11.383	2.40	17.383	1.05	23.38	0.71
5.400	1.81	11.400	2.40	17.400	1.05	23.40	0.71
5.417	1.81	11.417	2.40	17.417	1.05	23.42	0.71
5.433	1.81	11.433	2.40	17.433	1.05	23.43	0.71
5.450	1.81	11.450	2.40	17.450	1.05	23.45	0.71
5.467	1.81	11.467	2.40	17.467	1.05	23.47	0.71
5.483	1.81	11.483	2.40	17.483	1.05	23.48	0.71
5.500	1.81	11.500	2.40	17.500	1.05	23.50	0.71
5.517	1.92	11.517	2.31	17.517	1.04	23.52	0.70
5.533	1.92	11.533	2.31	17.533	1.04	23.53	0.70
5.550	1.92	11.550	2.31	17.550	1.04	23.55	0.70
5.567	1.92	11.567	2.31	17.567	1.04	23.57	0.70
5.583	1.92	11.583	2.31	17.583	1.04	23.58	0.70
5.600	1.92	11.600	2.31	17.600	1.04	23.60	0.70
5.617	1.92	11.617	2.31	17.617	1.04	23.62	0.70

5.633	1.92	11.633	2.31	17.633	1.04	23.63	0.70
5.650	1.92	11.650	2.31	17.650	1.04	23.65	0.70
5.667	1.92	11.667	2.31	17.667	1.04	23.67	0.70
5.683	2.04	11.683	2.23	17.683	1.03	23.68	0.70
5.700	2.04	11.700	2.23	17.700	1.03	23.70	0.70
5.717	2.04	11.717	2.23	17.717	1.03	23.72	0.70
5.733	2.04	11.733	2.23	17.733	1.03	23.73	0.70
5.750	2.04	11.750	2.23	17.750	1.03	23.75	0.70
5.767	2.04	11.767	2.23	17.767	1.03	23.77	0.70
5.783	2.04	11.783	2.23	17.783	1.03	23.78	0.70
5.800	2.04	11.800	2.23	17.800	1.03	23.80	0.70
5.817	2.04	11.817	2.23	17.817	1.03	23.82	0.70
5.833	2.04	11.833	2.23	17.833	1.03	23.83	0.70
5.850	2.18	11.850	2.15	17.850	1.01	23.85	0.69
5.867	2.18	11.867	2.15	17.867	1.01	23.87	0.69
5.883	2.18	11.883	2.15	17.883	1.01	23.88	0.69
5.900	2.18	11.900	2.15	17.900	1.01	23.90	0.69
5.917	2.18	11.917	2.15	17.917	1.01	23.92	0.69
5.933	2.18	11.933	2.15	17.933	1.01	23.93	0.69
5.950	2.18	11.950	2.15	17.950	1.01	23.95	0.69
5.967	2.18	11.967	2.15	17.967	1.01	23.97	0.69
5.983	2.18	11.983	2.15	17.983	1.01	23.98	0.69
6.000	2.18	12.000	2.15	18.000	1.01	24.00	0.69

Max.Eff.Inten.(mm/hr)=	121.81	70.49	
over (min)	5.00	8.00	
Storage Coeff. (min)=	4.76 (ii)	7.47 (ii)	
Unit Hyd. Tpeak (min)=	5.00	8.00	
Unit Hyd. peak (cms)=	0.23	0.15	
			TOTALS
PEAK FLOW (cms)=	4.02	0.22	4.214 (iii)
TIME TO PEAK (hrs)=	8.02	8.08	8.02
RUNOFF VOLUME (mm)=	79.04	46.98	75.85
TOTAL RAINFALL (mm)=	80.06	80.06	80.06
RUNOFF COEFFICIENT =	0.99	0.59	0.95

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 85.0 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	
STANDHYD (0013)	Area (ha)= 2.56
ID= 1 DT= 1.0 min	Total Imp(%)= 99.00 Dir. Conn.(%)= 99.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	2.53	0.03
Dep. Storage (mm)=	1.00	5.00
Average Slope (%)=	1.00	2.00
Length (m)=	130.64	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 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
0.017	0.71	6.017	2.35	12.017	2.08	18.02	1.00
0.033	0.71	6.033	2.35	12.033	2.08	18.03	1.00
0.050	0.71	6.050	2.35	12.050	2.08	18.05	1.00
0.067	0.71	6.067	2.35	12.067	2.08	18.07	1.00
0.083	0.71	6.083	2.35	12.083	2.08	18.08	1.00
0.100	0.71	6.100	2.35	12.100	2.08	18.10	1.00
0.117	0.71	6.117	2.35	12.117	2.08	18.12	1.00
0.133	0.71	6.133	2.35	12.133	2.08	18.13	1.00
0.150	0.71	6.150	2.35	12.150	2.08	18.15	1.00
0.167	0.71	6.167	2.35	12.167	2.08	18.17	1.00
0.183	0.72	6.183	2.55	12.183	2.01	18.18	0.99
0.200	0.72	6.200	2.55	12.200	2.01	18.20	0.99
0.217	0.72	6.217	2.55	12.217	2.01	18.22	0.99
0.233	0.72	6.233	2.55	12.233	2.01	18.23	0.99
0.250	0.72	6.250	2.55	12.250	2.01	18.25	0.99
0.267	0.72	6.267	2.55	12.267	2.01	18.27	0.99
0.283	0.72	6.283	2.55	12.283	2.01	18.28	0.99
0.300	0.72	6.300	2.55	12.300	2.01	18.30	0.99
0.317	0.72	6.317	2.55	12.317	2.01	18.32	0.99
0.333	0.72	6.333	2.55	12.333	2.01	18.33	0.99
0.350	0.73	6.350	2.80	12.350	1.95	18.35	0.97
0.367	0.73	6.367	2.80	12.367	1.95	18.37	0.97
0.383	0.73	6.383	2.80	12.383	1.95	18.38	0.97
0.400	0.73	6.400	2.80	12.400	1.95	18.40	0.97
0.417	0.73	6.417	2.80	12.417	1.95	18.42	0.97
0.433	0.73	6.433	2.80	12.433	1.95	18.43	0.97
0.450	0.73	6.450	2.80	12.450	1.95	18.45	0.97
0.467	0.73	6.467	2.80	12.467	1.95	18.47	0.97
0.483	0.73	6.483	2.80	12.483	1.95	18.48	0.97
0.500	0.73	6.500	2.80	12.500	1.95	18.50	0.97
0.517	0.74	6.517	3.10	12.517	1.89	18.52	0.96
0.533	0.74	6.533	3.10	12.533	1.89	18.53	0.96
0.550	0.74	6.550	3.10	12.550	1.89	18.55	0.96
0.567	0.74	6.567	3.10	12.567	1.89	18.57	0.96
0.583	0.74	6.583	3.10	12.583	1.89	18.58	0.96
0.600	0.74	6.600	3.10	12.600	1.89	18.60	0.96
0.617	0.74	6.617	3.10	12.617	1.89	18.62	0.96
0.633	0.74	6.633	3.10	12.633	1.89	18.63	0.96
0.650	0.74	6.650	3.10	12.650	1.89	18.65	0.96
0.667	0.74	6.667	3.10	12.667	1.89	18.67	0.96
0.683	0.76	6.683	3.49	12.683	1.84	18.68	0.95
0.700	0.76	6.700	3.49	12.700	1.84	18.70	0.95
0.717	0.76	6.717	3.49	12.717	1.84	18.72	0.95
0.733	0.76	6.733	3.49	12.733	1.84	18.73	0.95
0.750	0.76	6.750	3.49	12.750	1.84	18.75	0.95
0.767	0.76	6.767	3.49	12.767	1.84	18.77	0.95
0.783	0.76	6.783	3.49	12.783	1.84	18.78	0.95
0.800	0.76	6.800	3.49	12.800	1.84	18.80	0.95
0.817	0.76	6.817	3.49	12.817	1.84	18.82	0.95
0.833	0.76	6.833	3.49	12.833	1.84	18.83	0.95
0.850	0.77	6.850	4.01	12.850	1.78	18.85	0.94
0.867	0.77	6.867	4.01	12.867	1.78	18.87	0.94
0.883	0.77	6.883	4.01	12.883	1.78	18.88	0.94
0.900	0.77	6.900	4.01	12.900	1.78	18.90	0.94
0.917	0.77	6.917	4.01	12.917	1.78	18.92	0.94
0.933	0.77	6.933	4.01	12.933	1.78	18.93	0.94
0.950	0.77	6.950	4.01	12.950	1.78	18.95	0.94
0.967	0.77	6.967	4.01	12.967	1.78	18.97	0.94
0.983	0.77	6.983	4.01	12.983	1.78	18.98	0.94
1.000	0.77	7.000	4.01	13.000	1.78	19.00	0.94
1.017	0.79	7.017	4.74	13.017	1.74	19.02	0.93
1.033	0.79	7.033	4.74	13.033	1.74	19.03	0.93
1.050	0.79	7.050	4.74	13.050	1.74	19.05	0.93
1.067	0.79	7.067	4.74	13.067	1.74	19.07	0.93
1.083	0.79	7.083	4.74	13.083	1.74	19.08	0.93
1.100	0.79	7.100	4.74	13.100	1.74	19.10	0.93
1.117	0.79	7.117	4.74	13.117	1.74	19.12	0.93
1.133	0.79	7.133	4.74	13.133	1.74	19.13	0.93
1.150	0.79	7.150	4.74	13.150	1.74	19.15	0.93
1.167	0.79	7.167	4.74	13.167	1.74	19.17	0.93
1.183	0.80	7.183	5.85	13.183	1.69	19.18	0.91
1.200	0.80	7.200	5.85	13.200	1.69	19.20	0.91
1.217	0.80	7.217	5.85	13.217	1.69	19.22	0.91
1.233	0.80	7.233	5.85	13.233	1.69	19.23	0.91
1.250	0.80	7.250	5.85	13.250	1.69	19.25	0.91
1.267	0.80	7.267	5.85	13.267	1.69	19.27	0.91
1.283	0.80	7.283	5.85	13.283	1.69	19.28	0.91
1.300	0.80	7.300	5.85	13.300	1.69	19.30	0.91
1.317	0.80	7.317	5.85	13.317	1.69	19.32	0.91
1.333	0.80	7.333	5.85	13.333	1.69	19.33	0.91
1.350	0.82	7.350	7.75	13.350	1.65	19.35	0.90
1.367	0.82	7.367	7.75	13.367	1.65	19.37	0.90
1.383	0.82	7.383	7.75	13.383	1.65	19.38	0.90
1.400	0.82	7.400	7.75	13.400	1.65	19.40	0.90
1.417	0.82	7.417	7.75	13.417	1.65	19.42	0.90
1.433	0.82	7.433	7.75	13.433	1.65	19.43	0.90
1.450	0.82	7.450	7.75	13.450	1.65	19.45	0.90
1.467	0.82	7.467	7.75	13.467	1.65	19.47	0.90
1.483	0.82	7.483	7.75	13.483	1.65	19.48	0.90
1.500	0.82	7.500	7.76	13.500	1.65	19.50	0.90
1.517	0.84	7.517	11.89	13.517	1.61	19.52	0.89
1.533	0.84	7.533	11.89	13.533	1.61	19.53	0.89
1.550	0.84	7.550	11.89	13.550	1.61	19.55	0.89
1.567	0.84	7.567	11.89	13.567	1.61	19.57	0.89
1.583	0.84	7.583	11.89	13.583	1.61	19.58	0.89
1.600	0.84	7.600	11.89	13.600	1.61	19.60	0.89
1.617	0.84	7.617	11.89	13.617	1.61	19.62	0.89
1.633	0.84	7.633	11.89	13.633	1.61	19.63	0.89
1.650	0.84	7.650	11.89	13.650	1.61	19.65	0.89
1.667	0.84	7.667	11.93	13.667	1.61	19.67	0.89
1.683	0.86	7.683	28.81	13.683	1.57	19.68	0.88
1.700	0.86	7.700	28.81	13.700	1.57	19.70	0.88
1.717	0.86	7.717	28.81	13.717	1.57	19.72	0.88
1.733	0.86	7.733	28.81	13.733	1.57	19.73	0.88
1.750	0.86	7.750	28.81	13.750	1.57	19.75	0.88
1.767	0.86	7.767	28.81	13.767	1.57	19.77	0.88
1.783	0.86	7.783	28.81	13.783	1.57	19.78	0.88
1.800	0.86	7.800	28.81	13.800	1.57	19.80	0.88
1.817	0.86	7.817	28.81	13.817	1.57	19.82	0.88
1.833	0.86	7.833	29.07	13.833	1.57	19.83	0.88
1.850	0.88	7.850	121.81	13.850	1.54	19.85	0.87
1.867	0.88	7.867	121.81	13.867	1.54	19.87	0.87
1.883	0.88	7.883	121.81	13.883	1.54	19.88	0.87
1.900	0.88	7.900	121.81	13.900	1.54	19.90	0.87
1.917	0.88	7.917	121.81	13.917	1.54	19.92	0.87
1.933	0.88	7.933	121.81	13.933	1.54	19.93	0.87
1.950	0.88	7.950	121.81	13.950	1.54	19.95	0.87
1.967	0.88	7.967	121.81	13.967	1.54	19.97	0.87
1.983	0.88	7.983	121.81	13.983	1.54	19.98	0.87
2.000	0.88	8.000	121.56	14.000	1.54	20.00	0.87
2.017	0.90	8.017	37.88	14.017	1.50	20.02	0.86
2.033	0.90	8.033	37.88	14.033	1.50	20.03	0.86
2.050	0.90	8.050	37.88	14.050	1.50	20.05	0.86
2.067	0.90	8.067	37.88	14.067	1.50	20.07	0.86
2.083	0.90	8.083	37.88	14.083	1.50	20.08	0.86
2.100	0.90	8.100	37.88	14.100	1.50	20.10	0.86
2.117	0.90	8.117	37.88	14.117	1.50	20.12	0.86
2.133	0.90	8.133	37.88	14.133	1.50	20.13	0.86
2.150	0.90	8.150	37.88	14.150	1.50	20.15	0.86
2.167	0.90	8.167	37.83	14.167	1.50	20.17	0.86
2.183	0.92	8.183	19.77	14.183	1.47	20.18	0.85
2.200	0.92	8.200	19.77	14.200	1.47	20.20	0.85
2.217	0.92	8.217	19.77	14.217	1.47	20.22	0.85
2.233	0.92	8.233	19.77	14.233	1.47	20.23	0.85
2.250	0.92	8.250	19.77	14.250	1.47	20.25	0.85
2.267	0.92	8.267	19.77	14.267	1.47	20.27	0.85
2.283	0.92	8.283	19.77	14.283	1.47	20.28	0.85
2.300	0.92	8.300	19.77	14.300	1.47	20.30	0.85

2.317	0.92	8.317	19.77	14.317	1.47	20.32	0.85
2.333	0.92	8.333	19.75	14.333	1.47	20.33	0.85
2.350	0.94	8.350	13.48	14.350	1.44	20.35	0.84
2.367	0.94	8.367	13.48	14.367	1.44	20.37	0.84
2.383	0.94	8.383	13.48	14.383	1.44	20.38	0.84
2.400	0.94	8.400	13.48	14.400	1.44	20.40	0.84
2.417	0.94	8.417	13.48	14.417	1.44	20.42	0.84
2.433	0.94	8.433	13.48	14.433	1.44	20.43	0.84
2.450	0.94	8.450	13.48	14.450	1.44	20.45	0.84
2.467	0.94	8.467	13.48	14.467	1.44	20.47	0.84
2.483	0.94	8.483	13.48	14.483	1.44	20.48	0.84
2.500	0.94	8.500	13.48	14.500	1.44	20.50	0.84
2.517	0.97	8.517	10.31	14.517	1.41	20.52	0.84
2.533	0.97	8.533	10.31	14.533	1.41	20.53	0.84
2.550	0.97	8.550	10.31	14.550	1.41	20.55	0.84
2.567	0.97	8.567	10.31	14.567	1.41	20.57	0.84
2.583	0.97	8.583	10.31	14.583	1.41	20.58	0.84
2.600	0.97	8.600	10.31	14.600	1.41	20.60	0.84
2.617	0.97	8.617	10.31	14.617	1.41	20.62	0.84
2.633	0.97	8.633	10.31	14.633	1.41	20.63	0.84
2.650	0.97	8.650	10.31	14.650	1.41	20.65	0.84
2.667	0.97	8.667	10.31	14.667	1.41	20.67	0.84
2.683	0.99	8.683	8.40	14.683	1.38	20.68	0.83
2.700	0.99	8.700	8.40	14.700	1.38	20.70	0.83
2.717	0.99	8.717	8.40	14.717	1.38	20.72	0.83
2.733	0.99	8.733	8.40	14.733	1.38	20.73	0.83
2.750	0.99	8.750	8.40	14.750	1.38	20.75	0.83
2.767	0.99	8.767	8.40	14.767	1.38	20.77	0.83
2.783	0.99	8.783	8.40	14.783	1.38	20.78	0.83
2.800	0.99	8.800	8.40	14.800	1.38	20.80	0.83
2.817	0.99	8.817	8.40	14.817	1.38	20.82	0.83
2.833	0.99	8.833	8.40	14.833	1.38	20.83	0.83
2.850	1.02	8.850	7.12	14.850	1.35	20.85	0.82
2.867	1.02	8.867	7.12	14.867	1.35	20.87	0.82
2.883	1.02	8.883	7.12	14.883	1.35	20.88	0.82
2.900	1.02	8.900	7.12	14.900	1.35	20.90	0.82
2.917	1.02	8.917	7.12	14.917	1.35	20.92	0.82
2.933	1.02	8.933	7.12	14.933	1.35	20.93	0.82
2.950	1.02	8.950	7.12	14.950	1.35	20.95	0.82
2.967	1.02	8.967	7.12	14.967	1.35	20.97	0.82
2.983	1.02	8.983	7.12	14.983	1.35	20.98	0.82
3.000	1.02	9.000	7.12	15.000	1.35	21.00	0.82
3.017	1.05	9.017	6.20	15.017	1.33	21.02	0.81
3.033	1.05	9.033	6.20	15.033	1.33	21.03	0.81
3.050	1.05	9.050	6.20	15.050	1.33	21.05	0.81
3.067	1.05	9.067	6.20	15.067	1.33	21.07	0.81
3.083	1.05	9.083	6.20	15.083	1.33	21.08	0.81
3.100	1.05	9.100	6.20	15.100	1.33	21.10	0.81
3.117	1.05	9.117	6.20	15.117	1.33	21.12	0.81
3.133	1.05	9.133	6.20	15.133	1.33	21.13	0.81

3.150	1.05	9.150	6.20	15.150	1.33	21.15	0.81
3.167	1.05	9.167	6.20	15.167	1.33	21.17	0.81
3.183	1.08	9.183	5.51	15.183	1.30	21.18	0.80
3.200	1.08	9.200	5.51	15.200	1.30	21.20	0.80
3.217	1.08	9.217	5.51	15.217	1.30	21.22	0.80
3.233	1.08	9.233	5.51	15.233	1.30	21.23	0.80
3.250	1.08	9.250	5.51	15.250	1.30	21.25	0.80
3.267	1.08	9.267	5.51	15.267	1.30	21.27	0.80
3.283	1.08	9.283	5.51	15.283	1.30	21.28	0.80
3.300	1.08	9.300	5.51	15.300	1.30	21.30	0.80
3.317	1.08	9.317	5.51	15.317	1.30	21.32	0.80
3.333	1.08	9.333	5.51	15.333	1.30	21.33	0.80
3.350	1.11	9.350	4.96	15.350	1.28	21.35	0.79
3.367	1.11	9.367	4.96	15.367	1.28	21.37	0.79
3.383	1.11	9.383	4.96	15.383	1.28	21.38	0.79
3.400	1.11	9.400	4.96	15.400	1.28	21.40	0.79
3.417	1.11	9.417	4.96	15.417	1.28	21.42	0.79
3.433	1.11	9.433	4.96	15.433	1.28	21.43	0.79
3.450	1.11	9.450	4.96	15.450	1.28	21.45	0.79
3.467	1.11	9.467	4.96	15.467	1.28	21.47	0.79
3.483	1.11	9.483	4.96	15.483	1.28	21.48	0.79
3.500	1.11	9.500	4.96	15.500	1.28	21.50	0.79
3.517	1.14	9.517	4.53	15.517	1.26	21.52	0.79
3.533	1.14	9.533	4.53	15.533	1.26	21.53	0.79
3.550	1.14	9.550	4.53	15.550	1.26	21.55	0.79
3.567	1.14	9.567	4.53	15.567	1.26	21.57	0.79
3.583	1.14	9.583	4.53	15.583	1.26	21.58	0.79
3.600	1.14	9.600	4.53	15.600	1.26	21.60	0.79
3.617	1.14	9.617	4.53	15.617	1.26	21.62	0.79
3.633	1.14	9.633	4.53	15.633	1.26	21.63	0.79
3.650	1.14	9.650	4.53	15.650	1.26	21.65	0.79
3.667	1.14	9.667	4.53	15.667	1.26	21.67	0.79
3.683	1.18	9.683	4.17	15.683	1.23	21.68	0.78
3.700	1.18	9.700	4.17	15.700	1.23	21.70	0.78
3.717	1.18	9.717	4.17	15.717	1.23	21.72	0.78
3.733	1.18	9.733	4.17	15.733	1.23	21.73	0.78
3.750	1.18	9.750	4.17	15.750	1.23	21.75	0.78
3.767	1.18	9.767	4.17	15.767	1.23	21.77	0.78
3.783	1.18	9.783	4.17	15.783	1.23	21.78	0.78
3.800	1.18	9.800	4.17	15.800	1.23	21.80	0.78
3.817	1.18	9.817	4.17	15.817	1.23	21.82	0.78
3.833	1.18	9.833	4.17	15.833	1.23	21.83	0.78
3.850	1.22	9.850	3.86	15.850	1.21	21.85	0.77
3.867	1.22	9.867	3.86	15.867	1.21	21.87	0.77
3.883	1.22	9.883	3.86	15.883	1.21	21.88	0.77
3.900	1.22	9.900	3.86	15.900	1.21	21.90	0.77
3.917	1.22	9.917	3.86	15.917	1.21	21.92	0.77
3.933	1.22	9.933	3.86	15.933	1.21	21.93	0.77
3.950	1.22	9.950	3.86	15.950	1.21	21.95	0.77
3.967	1.22	9.967	3.86	15.967	1.21	21.97	0.77

3.983	1.22	9.983	3.86	15.983	1.21	21.98	0.77
4.000	1.22	10.000	3.86	16.000	1.21	22.00	0.77
4.017	1.27	10.017	3.61	16.017	1.19	22.02	0.76
4.033	1.27	10.033	3.61	16.033	1.19	22.03	0.76
4.050	1.27	10.050	3.61	16.050	1.19	22.05	0.76
4.067	1.27	10.067	3.61	16.067	1.19	22.07	0.76
4.083	1.27	10.083	3.61	16.083	1.19	22.08	0.76
4.100	1.27	10.100	3.61	16.100	1.19	22.10	0.76
4.117	1.27	10.117	3.61	16.117	1.19	22.12	0.76
4.133	1.27	10.133	3.61	16.133	1.19	22.13	0.76
4.150	1.27	10.150	3.61	16.150	1.19	22.15	0.76
4.167	1.27	10.167	3.61	16.167	1.19	22.17	0.76
4.183	1.31	10.183	3.38	16.183	1.17	22.18	0.76
4.200	1.31	10.200	3.38	16.200	1.17	22.20	0.76
4.217	1.31	10.217	3.38	16.217	1.17	22.22	0.76
4.233	1.31	10.233	3.38	16.233	1.17	22.23	0.76
4.250	1.31	10.250	3.38	16.250	1.17	22.25	0.76
4.267	1.31	10.267	3.38	16.267	1.17	22.27	0.76
4.283	1.31	10.283	3.38	16.283	1.17	22.28	0.76
4.300	1.31	10.300	3.38	16.300	1.17	22.30	0.76
4.317	1.31	10.317	3.38	16.317	1.17	22.32	0.76
4.333	1.31	10.333	3.38	16.333	1.17	22.33	0.76
4.350	1.37	10.350	3.19	16.350	1.16	22.35	0.75
4.367	1.37	10.367	3.19	16.367	1.15	22.37	0.75
4.383	1.37	10.383	3.19	16.383	1.15	22.38	0.75
4.400	1.37	10.400	3.19	16.400	1.15	22.40	0.75
4.417	1.37	10.417	3.19	16.417	1.15	22.42	0.75
4.433	1.37	10.433	3.19	16.433	1.15	22.43	0.75
4.450	1.37	10.450	3.19	16.450	1.15	22.45	0.75
4.467	1.37	10.467	3.19	16.467	1.15	22.47	0.75
4.483	1.37	10.483	3.19	16.483	1.15	22.48	0.75
4.500	1.37	10.500	3.19	16.500	1.15	22.50	0.75
4.517	1.42	10.517	3.02	16.517	1.14	22.52	0.74
4.533	1.42	10.533	3.02	16.533	1.14	22.53	0.74
4.550	1.42	10.550	3.02	16.550	1.14	22.55	0.74
4.567	1.42	10.567	3.02	16.567	1.14	22.57	0.74
4.583	1.42	10.583	3.02	16.583	1.14	22.58	0.74
4.600	1.42	10.600	3.02	16.600	1.14	22.60	0.74
4.617	1.42	10.617	3.02	16.617	1.14	22.62	0.74
4.633	1.42	10.633	3.02	16.633	1.14	22.63	0.74
4.650	1.42	10.650	3.02	16.650	1.14	22.65	0.74
4.667	1.42	10.667	3.02	16.667	1.14	22.67	0.74
4.683	1.48	10.683	2.87	16.683	1.12	22.68	0.74
4.700	1.48	10.700	2.87	16.700	1.12	22.70	0.74
4.717	1.48	10.717	2.87	16.717	1.12	22.72	0.74
4.733	1.48	10.733	2.87	16.733	1.12	22.73	0.74
4.750	1.48	10.750	2.87	16.750	1.12	22.75	0.74
4.767	1.48	10.767	2.87	16.767	1.12	22.77	0.74
4.783	1.48	10.783	2.87	16.783	1.12	22.78	0.74
4.800	1.48	10.800	2.87	16.800	1.12	22.80	0.74

4.817	1.48	10.817	2.87	16.817	1.12	22.82	0.74
4.833	1.48	10.833	2.87	16.833	1.12	22.83	0.74
4.850	1.55	10.850	2.73	16.850	1.10	22.85	0.73
4.867	1.55	10.867	2.73	16.867	1.10	22.87	0.73
4.883	1.55	10.883	2.73	16.883	1.10	22.88	0.73
4.900	1.55	10.900	2.73	16.900	1.10	22.90	0.73
4.917	1.55	10.917	2.73	16.917	1.10	22.92	0.73
4.933	1.55	10.933	2.73	16.933	1.10	22.93	0.73
4.950	1.55	10.950	2.73	16.950	1.10	22.95	0.73
4.967	1.55	10.967	2.73	16.967	1.10	22.97	0.73
4.983	1.55	10.983	2.73	16.983	1.10	22.98	0.73
5.000	1.55	11.000	2.73	17.000	1.10	23.00	0.73
5.017	1.63	11.017	2.61	17.017	1.09	23.02	0.72
5.033	1.63	11.033	2.61	17.033	1.09	23.03	0.72
5.050	1.63	11.050	2.61	17.050	1.09	23.05	0.72
5.067	1.63	11.067	2.61	17.067	1.09	23.07	0.72
5.083	1.63	11.083	2.61	17.083	1.09	23.08	0.72
5.100	1.63	11.100	2.61	17.100	1.09	23.10	0.72
5.117	1.63	11.117	2.61	17.117	1.09	23.12	0.72
5.133	1.63	11.133	2.61	17.133	1.09	23.13	0.72
5.150	1.63	11.150	2.61	17.150	1.09	23.15	0.72
5.167	1.63	11.167	2.61	17.167	1.09	23.17	0.72
5.183	1.71	11.183	2.50	17.183	1.07	23.18	0.72
5.200	1.71	11.200	2.50	17.200	1.07	23.20	0.72
5.217	1.71	11.217	2.50	17.217	1.07	23.22	0.72
5.233	1.71	11.233	2.50	17.233	1.07	23.23	0.72
5.250	1.71	11.250	2.50	17.250	1.07	23.25	0.72
5.267	1.71	11.267	2.50	17.267	1.07	23.27	0.72
5.283	1.71	11.283	2.50	17.283	1.07	23.28	0.72
5.300	1.71	11.300	2.50	17.300	1.07	23.30	0.72
5.317	1.71	11.317	2.50	17.317	1.07	23.32	0.72
5.333	1.71	11.333	2.50	17.333	1.07	23.33	0.72
5.350	1.81	11.350	2.40	17.350	1.06	23.35	0.71
5.367	1.81	11.367	2.40	17.367	1.05	23.37	0.71
5.383	1.81	11.383	2.40	17.383	1.05	23.38	0.71
5.400	1.81	11.400	2.40	17.400	1.05	23.40	0.71
5.417	1.81	11.417	2.40	17.417	1.05	23.42	0.71
5.433	1.81	11.433	2.40	17.433	1.05	23.43	0.71
5.450	1.81	11.450	2.40	17.450	1.05	23.45	0.71
5.467	1.81	11.467	2.40	17.467	1.05	23.47	0.71
5.483	1.81	11.483	2.40	17.483	1.05	23.48	0.71
5.500	1.81	11.500	2.40	17.500	1.05	23.50	0.71
5.517	1.92	11.517	2.31	17.517	1.04	23.52	0.70
5.533	1.92	11.533	2.31	17.533	1.04	23.53	0.70
5.550	1.92	11.550	2.31	17.550	1.04	23.55	0.70
5.567	1.92	11.567	2.31	17.567	1.04	23.57	0.70
5.583	1.92	11.583	2.31	17.583	1.04	23.58	0.70
5.600	1.92	11.600	2.31	17.600	1.04	23.60	0.70
5.617	1.92	11.617	2.31	17.617	1.04	23.62	0.70
5.633	1.92	11.633	2.31	17.633	1.04	23.63	0.70

5.650	1.92	11.650	2.31	17.650	1.04	23.65	0.70
5.667	1.92	11.667	2.31	17.667	1.04	23.67	0.70
5.683	2.04	11.683	2.23	17.683	1.03	23.68	0.70
5.700	2.04	11.700	2.23	17.700	1.03	23.70	0.70
5.717	2.04	11.717	2.23	17.717	1.03	23.72	0.70
5.733	2.04	11.733	2.23	17.733	1.03	23.73	0.70
5.750	2.04	11.750	2.23	17.750	1.03	23.75	0.70
5.767	2.04	11.767	2.23	17.767	1.03	23.77	0.70
5.783	2.04	11.783	2.23	17.783	1.03	23.78	0.70
5.800	2.04	11.800	2.23	17.800	1.03	23.80	0.70
5.817	2.04	11.817	2.23	17.817	1.03	23.82	0.70
5.833	2.04	11.833	2.23	17.833	1.03	23.83	0.70
5.850	2.18	11.850	2.15	17.850	1.01	23.85	0.69
5.867	2.18	11.867	2.15	17.867	1.01	23.87	0.69
5.883	2.18	11.883	2.15	17.883	1.01	23.88	0.69
5.900	2.18	11.900	2.15	17.900	1.01	23.90	0.69
5.917	2.18	11.917	2.15	17.917	1.01	23.92	0.69
5.933	2.18	11.933	2.15	17.933	1.01	23.93	0.69
5.950	2.18	11.950	2.15	17.950	1.01	23.95	0.69
5.967	2.18	11.967	2.15	17.967	1.01	23.97	0.69
5.983	2.18	11.983	2.15	17.983	1.01	23.98	0.69
6.000	2.18	12.000	2.15	18.000	1.01	24.00	0.69

Max.Eff.Inten.(mm/hr)=	121.81	70.49	
over (min)	5.00	4.00	
Storage Coeff. (min)=	2.77 (ii)	3.81 (ii)	
Unit Hyd. Tpeak (min)=	5.00	4.00	
Unit Hyd. peak (cms)=	0.32	0.29	
			TOTALS
PEAK FLOW (cms)=	0.81	0.00	0.815 (iii)
TIME TO PEAK (hrs)=	8.00	8.02	8.00
RUNOFF VOLUME (mm)=	79.05	46.99	78.73
TOTAL RAINFALL (mm)=	80.06	80.06	80.06
RUNOFF COEFFICIENT =	0.99	0.59	0.98

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 85.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0012)		AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3		(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0010):		15.53	4.214	8.02	75.85
+ ID2= 2 (0013):		2.56	0.815	8.00	78.73

==========
ID = 3 (0012): 18.09 5.021 8.02 76.26

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

RESERVOIR(0011)	OVERFLOW IS OFF			
IN= 2---> OUT= 1				
DT= 1.0 min	OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
	0.0000	0.0000	2.8110	0.4813
	0.0590	0.3542	3.2550	0.5511
	1.5560	0.3695	4.0320	0.5885
	2.2770	0.4312	4.6420	0.6202

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0012)	18.090	5.021	8.02	76.26
OUTFLOW: ID= 1 (0011)	18.090	2.808	8.13	66.13

PEAK FLOW REDUCTION [Qout/Qin](%)= 55.93
TIME SHIFT OF PEAK FLOW (min)= 7.00
MAXIMUM STORAGE USED (ha.m.)= 0.4813

==========

V V I SSSSS U U A L (v 6.2.2019)
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

OOO TTTTT TTTTT H H Y Y M M OOO TM
O O T T H H Y Y MM MM O O
O O T T H H Y M M O O
OOO T T H H Y M M OOO

Developed and Distributed by Smart City Water Inc

***** 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\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\dabaa9

07-8668-400e-a623-66d1b8577746\scenari
Summary filename:
C:\Users\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\dabaa9
07-8668-400e-a623-66d1b8577746\scenari

DATE: 01-27-2026 TIME: 01:43:14

USER:

COMMENTS: _____

** SIMULATION : 5 - 25-Year 24hr Chic - Milto **

CHICAGO STORM	IDF curve parameters: A=1234.000
Ptotal= 97.01 mm	B= 5.500
	C= 0.786

used in: INTENSITY = A / (t + B)^C

Duration of storm = 24.00 hrs
Storm time step = 10.00 min
Time to peak ratio = 0.33

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.00	0.89	6.00	2.92	12.00	2.59	18.00	1.26
0.17	0.91	6.17	3.17	12.17	2.50	18.17	1.24
0.33	0.92	6.33	3.47	12.33	2.43	18.33	1.22
0.50	0.94	6.50	3.84	12.50	2.36	18.50	1.21
0.67	0.96	6.67	4.31	12.67	2.29	18.67	1.19
0.83	0.98	6.83	4.94	12.83	2.23	18.83	1.18
1.00	1.00	7.00	5.82	13.00	2.17	19.00	1.17
1.17	1.02	7.17	7.15	13.17	2.11	19.17	1.15
1.33	1.04	7.33	9.42	13.33	2.06	19.33	1.14
1.50	1.06	7.50	14.31	13.50	2.01	19.50	1.13
1.67	1.08	7.67	34.08	13.67	1.97	19.67	1.11
1.83	1.11	7.83	143.01	13.83	1.92	19.83	1.10
2.00	1.13	8.00	44.65	14.00	1.88	20.00	1.09
2.17	1.16	8.17	23.56	14.17	1.84	20.17	1.08
2.33	1.19	8.33	16.20	14.33	1.80	20.33	1.07
2.50	1.22	8.50	12.46	14.50	1.76	20.50	1.05
2.67	1.25	8.67	10.19	14.67	1.73	20.67	1.04
2.83	1.28	8.83	8.67	14.83	1.70	20.83	1.03
3.00	1.32	9.00	7.57	15.00	1.66	21.00	1.02
3.17	1.35	9.17	6.74	15.17	1.63	21.17	1.01
3.33	1.39	9.33	6.09	15.33	1.60	21.33	1.00
3.50	1.44	9.50	5.56	15.50	1.58	21.50	0.99
3.67	1.48	9.67	5.13	15.67	1.55	21.67	0.98
3.83	1.53	9.83	4.76	15.83	1.52	21.83	0.97
4.00	1.59	10.00	4.45	16.00	1.50	22.00	0.96
4.17	1.65	10.17	4.18	16.17	1.47	22.17	0.96
4.33	1.71	10.33	3.95	16.33	1.45	22.33	0.95
4.50	1.78	10.50	3.74	16.50	1.43	22.50	0.94
4.67	1.86	10.67	3.55	16.67	1.41	22.67	0.93
4.83	1.94	10.83	3.39	16.83	1.39	22.83	0.92
5.00	2.03	11.00	3.24	17.00	1.37	23.00	0.91
5.17	2.14	11.17	3.11	17.17	1.35	23.17	0.91
5.33	2.26	11.33	2.98	17.33	1.33	23.33	0.90
5.50	2.39	11.50	2.87	17.50	1.31	23.50	0.89
5.67	2.54	11.67	2.77	17.67	1.29	23.67	0.88
5.83	2.72	11.83	2.67	17.83	1.27	23.83	0.88

CALIB					
STANDHYD (0010)	Area (ha)= 15.53				
ID= 1 DT= 1.0 min	Total Imp(%)= 90.00	Dir. Conn.(%)= 90.00			

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	13.98	1.55
Dep. Storage	(mm)=	1.00	5.00
Average Slope	(%)=	1.00	2.00
Length	(m)=	321.77	40.00
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 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
0.017	0.89	6.017	2.92	12.017	2.59	18.02	1.26
0.033	0.89	6.033	2.92	12.033	2.59	18.03	1.26
0.050	0.89	6.050	2.92	12.050	2.59	18.05	1.26
0.067	0.89	6.067	2.92	12.067	2.59	18.07	1.26
0.083	0.89	6.083	2.92	12.083	2.59	18.08	1.26
0.100	0.89	6.100	2.92	12.100	2.59	18.10	1.26
0.117	0.89	6.117	2.92	12.117	2.59	18.12	1.26
0.133	0.89	6.133	2.92	12.133	2.59	18.13	1.26
0.150	0.89	6.150	2.92	12.150	2.59	18.15	1.26
0.167	0.89	6.167	2.92	12.167	2.59	18.17	1.26

0.183	0.91	6.183	3.17	12.183	2.50	18.18	1.24
0.200	0.91	6.200	3.17	12.200	2.50	18.20	1.24
0.217	0.91	6.217	3.17	12.217	2.50	18.22	1.24
0.233	0.91	6.233	3.17	12.233	2.50	18.23	1.24
0.250	0.91	6.250	3.17	12.250	2.50	18.25	1.24
0.267	0.91	6.267	3.17	12.267	2.50	18.27	1.24
0.283	0.91	6.283	3.17	12.283	2.50	18.28	1.24
0.300	0.91	6.300	3.17	12.300	2.50	18.30	1.24
0.317	0.91	6.317	3.17	12.317	2.50	18.32	1.24
0.333	0.91	6.333	3.17	12.333	2.50	18.33	1.24
0.350	0.92	6.350	3.47	12.350	2.43	18.35	1.22
0.367	0.92	6.367	3.47	12.367	2.43	18.37	1.22
0.383	0.92	6.383	3.47	12.383	2.43	18.38	1.22
0.400	0.92	6.400	3.47	12.400	2.43	18.40	1.22
0.417	0.92	6.417	3.47	12.417	2.43	18.42	1.22
0.433	0.92	6.433	3.47	12.433	2.43	18.43	1.22
0.450	0.92	6.450	3.47	12.450	2.43	18.45	1.22
0.467	0.92	6.467	3.47	12.467	2.43	18.47	1.22
0.483	0.92	6.483	3.47	12.483	2.43	18.48	1.22
0.500	0.92	6.500	3.47	12.500	2.43	18.50	1.22
0.517	0.94	6.517	3.84	12.517	2.36	18.52	1.21
0.533	0.94	6.533	3.84	12.533	2.36	18.53	1.21
0.550	0.94	6.550	3.84	12.550	2.36	18.55	1.21
0.567	0.94	6.567	3.84	12.567	2.36	18.57	1.21
0.583	0.94	6.583	3.84	12.583	2.36	18.58	1.21
0.600	0.94	6.600	3.84	12.600	2.36	18.60	1.21
0.617	0.94	6.617	3.84	12.617	2.36	18.62	1.21
0.633	0.94	6.633	3.84	12.633	2.36	18.63	1.21
0.650	0.94	6.650	3.84	12.650	2.36	18.65	1.21
0.667	0.94	6.667	3.84	12.667	2.36	18.67	1.21
0.683	0.96	6.683	4.31	12.683	2.29	18.68	1.19
0.700	0.96	6.700	4.31	12.700	2.29	18.70	1.19
0.717	0.96	6.717	4.31	12.717	2.29	18.72	1.19
0.733	0.96	6.733	4.31	12.733	2.29	18.73	1.19
0.750	0.96	6.750	4.31	12.750	2.29	18.75	1.19
0.767	0.96	6.767	4.31	12.767	2.29	18.77	1.19
0.783	0.96	6.783	4.31	12.783	2.29	18.78	1.19
0.800	0.96	6.800	4.31	12.800	2.29	18.80	1.19
0.817	0.96	6.817	4.31	12.817	2.29	18.82	1.19
0.833	0.96	6.833	4.31	12.833	2.29	18.83	1.19
0.850	0.98	6.850	4.94	12.850	2.23	18.85	1.18
0.867	0.98	6.867	4.94	12.867	2.23	18.87	1.18
0.883	0.98	6.883	4.94	12.883	2.23	18.88	1.18
0.900	0.98	6.900	4.94	12.900	2.23	18.90	1.18
0.917	0.98	6.917	4.94	12.917	2.23	18.92	1.18
0.933	0.98	6.933	4.94	12.933	2.23	18.93	1.18
0.950	0.98	6.950	4.94	12.950	2.23	18.95	1.18
0.967	0.98	6.967	4.94	12.967	2.23	18.97	1.18
0.983	0.98	6.983	4.94	12.983	2.23	18.98	1.18
1.000	0.98	7.000	4.94	13.000	2.23	19.00	1.18

1.017	1.00	7.017	5.82	13.017	2.17	19.02	1.17
1.033	1.00	7.033	5.82	13.033	2.17	19.03	1.17
1.050	1.00	7.050	5.82	13.050	2.17	19.05	1.17
1.067	1.00	7.067	5.82	13.067	2.17	19.07	1.17
1.083	1.00	7.083	5.82	13.083	2.17	19.08	1.17
1.100	1.00	7.100	5.82	13.100	2.17	19.10	1.17
1.117	1.00	7.117	5.82	13.117	2.17	19.12	1.17
1.133	1.00	7.133	5.82	13.133	2.17	19.13	1.17
1.150	1.00	7.150	5.82	13.150	2.17	19.15	1.17
1.167	1.00	7.167	5.82	13.167	2.17	19.17	1.17
1.183	1.02	7.183	7.15	13.183	2.11	19.18	1.15
1.200	1.02	7.200	7.15	13.200	2.11	19.20	1.15
1.217	1.02	7.217	7.15	13.217	2.11	19.22	1.15
1.233	1.02	7.233	7.15	13.233	2.11	19.23	1.15
1.250	1.02	7.250	7.15	13.250	2.11	19.25	1.15
1.267	1.02	7.267	7.15	13.267	2.11	19.27	1.15
1.283	1.02	7.283	7.15	13.283	2.11	19.28	1.15
1.300	1.02	7.300	7.15	13.300	2.11	19.30	1.15
1.317	1.02	7.317	7.15	13.317	2.11	19.32	1.15
1.333	1.02	7.333	7.15	13.333	2.11	19.33	1.15
1.350	1.04	7.350	9.42	13.350	2.06	19.35	1.14
1.367	1.04	7.367	9.42	13.367	2.06	19.37	1.14
1.383	1.04	7.383	9.42	13.383	2.06	19.38	1.14
1.400	1.04	7.400	9.42	13.400	2.06	19.40	1.14
1.417	1.04	7.417	9.42	13.417	2.06	19.42	1.14
1.433	1.04	7.433	9.42	13.433	2.06	19.43	1.14
1.450	1.04	7.450	9.42	13.450	2.06	19.45	1.14
1.467	1.04	7.467	9.42	13.467	2.06	19.47	1.14
1.483	1.04	7.483	9.42	13.483	2.06	19.48	1.14
1.500	1.04	7.500	9.43	13.500	2.06	19.50	1.14
1.517	1.06	7.517	14.31	13.517	2.01	19.52	1.13
1.533	1.06	7.533	14.31	13.533	2.01	19.53	1.13
1.550	1.06	7.550	14.31	13.550	2.01	19.55	1.13
1.567	1.06	7.567	14.31	13.567	2.01	19.57	1.13
1.583	1.06	7.583	14.31	13.583	2.01	19.58	1.13
1.600	1.06	7.600	14.31	13.600	2.01	19.60	1.13
1.617	1.06	7.617	14.31	13.617	2.01	19.62	1.13
1.633	1.06	7.633	14.31	13.633	2.01	19.63	1.13
1.650	1.06	7.650	14.31	13.650	2.01	19.65	1.13
1.667	1.06	7.667	14.37	13.667	2.01	19.67	1.13
1.683	1.08	7.683	34.08	13.683	1.97	19.68	1.11
1.700	1.08	7.700	34.08	13.700	1.97	19.70	1.11
1.717	1.08	7.717	34.08	13.717	1.97	19.72	1.11
1.733	1.08	7.733	34.08	13.733	1.97	19.73	1.11
1.750	1.08	7.750	34.08	13.750	1.97	19.75	1.11
1.767	1.08	7.767	34.08	13.767	1.97	19.77	1.11
1.783	1.08	7.783	34.08	13.783	1.97	19.78	1.11
1.800	1.08	7.800	34.08	13.800	1.97	19.80	1.11
1.817	1.08	7.817	34.08	13.817	1.97	19.82	1.11
1.833	1.08	7.833	34.39	13.833	1.97	19.83	1.11

1.850	1.11	7.850	143.01	13.850	1.92	19.85	1.10
1.867	1.11	7.867	143.01	13.867	1.92	19.87	1.10
1.883	1.11	7.883	143.01	13.883	1.92	19.88	1.10
1.900	1.11	7.900	143.01	13.900	1.92	19.90	1.10
1.917	1.11	7.917	143.01	13.917	1.92	19.92	1.10
1.933	1.11	7.933	143.01	13.933	1.92	19.93	1.10
1.950	1.11	7.950	143.01	13.950	1.92	19.95	1.10
1.967	1.11	7.967	143.01	13.967	1.92	19.97	1.10
1.983	1.11	7.983	143.01	13.983	1.92	19.98	1.10
2.000	1.11	8.000	142.72	14.000	1.92	20.00	1.10
2.017	1.13	8.017	44.65	14.017	1.88	20.02	1.09
2.033	1.13	8.033	44.65	14.033	1.88	20.03	1.09
2.050	1.13	8.050	44.65	14.050	1.88	20.05	1.09
2.067	1.13	8.067	44.65	14.067	1.88	20.07	1.09
2.083	1.13	8.083	44.65	14.083	1.88	20.08	1.09
2.100	1.13	8.100	44.65	14.100	1.88	20.10	1.09
2.117	1.13	8.117	44.65	14.117	1.88	20.12	1.09
2.133	1.13	8.133	44.65	14.133	1.88	20.13	1.09
2.150	1.13	8.150	44.65	14.150	1.88	20.15	1.09
2.167	1.13	8.167	44.59	14.167	1.88	20.17	1.09
2.183	1.16	8.183	23.56	14.183	1.84	20.18	1.08
2.200	1.16	8.200	23.56	14.200	1.84	20.20	1.08
2.217	1.16	8.217	23.56	14.217	1.84	20.22	1.08
2.233	1.16	8.233	23.56	14.233	1.84	20.23	1.08
2.250	1.16	8.250	23.56	14.250	1.84	20.25	1.08
2.267	1.16	8.267	23.56	14.267	1.84	20.27	1.08
2.283	1.16	8.283	23.56	14.283	1.84	20.28	1.08
2.300	1.16	8.300	23.56	14.300	1.84	20.30	1.08
2.317	1.16	8.317	23.56	14.317	1.84	20.32	1.08
2.333	1.16	8.333	23.54	14.333	1.84	20.33	1.08
2.350	1.19	8.350	16.20	14.350	1.80	20.35	1.07
2.367	1.19	8.367	16.20	14.367	1.80	20.37	1.07
2.383	1.19	8.383	16.20	14.383	1.80	20.38	1.07
2.400	1.19	8.400	16.20	14.400	1.80	20.40	1.07
2.417	1.19	8.417	16.20	14.417	1.80	20.42	1.07
2.433	1.19	8.433	16.20	14.433	1.80	20.43	1.07
2.450	1.19	8.450	16.20	14.450	1.80	20.45	1.07
2.467	1.19	8.467	16.20	14.467	1.80	20.47	1.07
2.483	1.19	8.483	16.20	14.483	1.80	20.48	1.07
2.500	1.19	8.500	16.19	14.500	1.80	20.50	1.07
2.517	1.22	8.517	12.46	14.517	1.76	20.52	1.05
2.533	1.22	8.533	12.46	14.533	1.76	20.53	1.05
2.550	1.22	8.550	12.46	14.550	1.76	20.55	1.05
2.567	1.22	8.567	12.46	14.567	1.76	20.57	1.05
2.583	1.22	8.583	12.46	14.583	1.76	20.58	1.05
2.600	1.22	8.600	12.46	14.600	1.76	20.60	1.05
2.617	1.22	8.617	12.46	14.617	1.76	20.62	1.05
2.633	1.22	8.633	12.46	14.633	1.76	20.63	1.05
2.650	1.22	8.650	12.46	14.650	1.76	20.65	1.05
2.667	1.22	8.667	12.45	14.667	1.76	20.67	1.05

2.683	1.25	8.683	10.19	14.683	1.73	20.68	1.04
2.700	1.25	8.700	10.19	14.700	1.73	20.70	1.04
2.717	1.25	8.717	10.19	14.717	1.73	20.72	1.04
2.733	1.25	8.733	10.19	14.733	1.73	20.73	1.04
2.750	1.25	8.750	10.19	14.750	1.73	20.75	1.04
2.767	1.25	8.767	10.19	14.767	1.73	20.77	1.04
2.783	1.25	8.783	10.19	14.783	1.73	20.78	1.04
2.800	1.25	8.800	10.19	14.800	1.73	20.80	1.04
2.817	1.25	8.817	10.19	14.817	1.73	20.82	1.04
2.833	1.25	8.833	10.19	14.833	1.73	20.83	1.04
2.850	1.28	8.850	8.67	14.850	1.70	20.85	1.03
2.867	1.28	8.867	8.67	14.867	1.70	20.87	1.03
2.883	1.28	8.883	8.67	14.883	1.70	20.88	1.03
2.900	1.28	8.900	8.67	14.900	1.70	20.90	1.03
2.917	1.28	8.917	8.67	14.917	1.70	20.92	1.03
2.933	1.28	8.933	8.67	14.933	1.70	20.93	1.03
2.950	1.28	8.950	8.67	14.950	1.70	20.95	1.03
2.967	1.28	8.967	8.67	14.967	1.70	20.97	1.03
2.983	1.28	8.983	8.67	14.983	1.70	20.98	1.03
3.000	1.28	9.000	8.67	15.000	1.70	21.00	1.03
3.017	1.32	9.017	7.57	15.017	1.66	21.02	1.02
3.033	1.32	9.033	7.57	15.033	1.66	21.03	1.02
3.050	1.32	9.050	7.57	15.050	1.66	21.05	1.02
3.067	1.32	9.067	7.57	15.067	1.66	21.07	1.02
3.083	1.32	9.083	7.57	15.083	1.66	21.08	1.02
3.100	1.32	9.100	7.57	15.100	1.66	21.10	1.02
3.117	1.32	9.117	7.57	15.117	1.66	21.12	1.02
3.133	1.32	9.133	7.57	15.133	1.66	21.13	1.02
3.150	1.32	9.150	7.57	15.150	1.66	21.15	1.02
3.167	1.32	9.167	7.57	15.167	1.66	21.17	1.02
3.183	1.35	9.183	6.74	15.183	1.63	21.18	1.01
3.200	1.35	9.200	6.74	15.200	1.63	21.20	1.01
3.217	1.35	9.217	6.74	15.217	1.63	21.22	1.01
3.233	1.35	9.233	6.74	15.233	1.63	21.23	1.01
3.250	1.35	9.250	6.74	15.250	1.63	21.25	1.01
3.267	1.35	9.267	6.74	15.267	1.63	21.27	1.01
3.283	1.35	9.283	6.74	15.283	1.63	21.28	1.01
3.300	1.35	9.300	6.74	15.300	1.63	21.30	1.01
3.317	1.35	9.317	6.74	15.317	1.63	21.32	1.01
3.333	1.35	9.333	6.74	15.333	1.63	21.33	1.01
3.350	1.39	9.350	6.09	15.350	1.60	21.35	1.00
3.367	1.39	9.367	6.09	15.367	1.60	21.37	1.00
3.383	1.39	9.383	6.09	15.383	1.60	21.38	1.00
3.400	1.39	9.400	6.09	15.400	1.60	21.40	1.00
3.417	1.39	9.417	6.09	15.417	1.60	21.42	1.00
3.433	1.39	9.433	6.09	15.433	1.60	21.43	1.00
3.450	1.39	9.450	6.09	15.450	1.60	21.45	1.00
3.467	1.39	9.467	6.09	15.467	1.60	21.47	1.00
3.483	1.39	9.483	6.09	15.483	1.60	21.48	1.00
3.500	1.39	9.500	6.09	15.500	1.60	21.50	1.00

3.517	1.44	9.517	5.56	15.517	1.58	21.52	0.99
3.533	1.44	9.533	5.56	15.533	1.58	21.53	0.99
3.550	1.44	9.550	5.56	15.550	1.58	21.55	0.99
3.567	1.44	9.567	5.56	15.567	1.58	21.57	0.99
3.583	1.44	9.583	5.56	15.583	1.58	21.58	0.99
3.600	1.44	9.600	5.56	15.600	1.58	21.60	0.99
3.617	1.44	9.617	5.56	15.617	1.58	21.62	0.99
3.633	1.44	9.633	5.56	15.633	1.58	21.63	0.99
3.650	1.44	9.650	5.56	15.650	1.58	21.65	0.99
3.667	1.44	9.667	5.56	15.667	1.58	21.67	0.99
3.683	1.48	9.683	5.13	15.683	1.55	21.68	0.98
3.700	1.48	9.700	5.13	15.700	1.55	21.70	0.98
3.717	1.48	9.717	5.13	15.717	1.55	21.72	0.98
3.733	1.48	9.733	5.13	15.733	1.55	21.73	0.98
3.750	1.48	9.750	5.13	15.750	1.55	21.75	0.98
3.767	1.48	9.767	5.13	15.767	1.55	21.77	0.98
3.783	1.48	9.783	5.13	15.783	1.55	21.78	0.98
3.800	1.48	9.800	5.13	15.800	1.55	21.80	0.98
3.817	1.48	9.817	5.13	15.817	1.55	21.82	0.98
3.833	1.48	9.833	5.13	15.833	1.55	21.83	0.98
3.850	1.53	9.850	4.76	15.850	1.52	21.85	0.97
3.867	1.53	9.867	4.76	15.867	1.52	21.87	0.97
3.883	1.53	9.883	4.76	15.883	1.52	21.88	0.97
3.900	1.53	9.900	4.76	15.900	1.52	21.90	0.97
3.917	1.53	9.917	4.76	15.917	1.52	21.92	0.97
3.933	1.53	9.933	4.76	15.933	1.52	21.93	0.97
3.950	1.53	9.950	4.76	15.950	1.52	21.95	0.97
3.967	1.53	9.967	4.76	15.967	1.52	21.97	0.97
3.983	1.53	9.983	4.76	15.983	1.52	21.98	0.97
4.000	1.53	10.000	4.76	16.000	1.52	22.00	0.97
4.017	1.59	10.017	4.45	16.017	1.50	22.02	0.96
4.033	1.59	10.033	4.45	16.033	1.50	22.03	0.96
4.050	1.59	10.050	4.45	16.050	1.50	22.05	0.96
4.067	1.59	10.067	4.45	16.067	1.50	22.07	0.96
4.083	1.59	10.083	4.45	16.083	1.50	22.08	0.96
4.100	1.59	10.100	4.45	16.100	1.50	22.10	0.96
4.117	1.59	10.117	4.45	16.117	1.50	22.12	0.96
4.133	1.59	10.133	4.45	16.133	1.50	22.13	0.96
4.150	1.59	10.150	4.45	16.150	1.50	22.15	0.96
4.167	1.59	10.167	4.45	16.167	1.50	22.17	0.96
4.183	1.65	10.183	4.18	16.183	1.47	22.18	0.96
4.200	1.65	10.200	4.18	16.200	1.47	22.20	0.96
4.217	1.65	10.217	4.18	16.217	1.47	22.22	0.96
4.233	1.65	10.233	4.18	16.233	1.47	22.23	0.96
4.250	1.65	10.250	4.18	16.250	1.47	22.25	0.96
4.267	1.65	10.267	4.18	16.267	1.47	22.27	0.96
4.283	1.65	10.283	4.18	16.283	1.47	22.28	0.96
4.300	1.65	10.300	4.18	16.300	1.47	22.30	0.96
4.317	1.65	10.317	4.18	16.317	1.47	22.32	0.96
4.333	1.65	10.333	4.18	16.333	1.47	22.33	0.96
4.350	1.71	10.350	3.95	16.350	1.45	22.35	0.95
4.367	1.71	10.367	3.95	16.367	1.45	22.37	0.95
4.383	1.71	10.383	3.95	16.383	1.45	22.38	0.95
4.400	1.71	10.400	3.95	16.400	1.45	22.40	0.95
4.417	1.71	10.417	3.95	16.417	1.45	22.42	0.95
4.433	1.71	10.433	3.95	16.433	1.45	22.43	0.95
4.450	1.71	10.450	3.95	16.450	1.45	22.45	0.95
4.467	1.71	10.467	3.95	16.467	1.45	22.47	0.95
4.483	1.71	10.483	3.95	16.483	1.45	22.48	0.95
4.500	1.71	10.500	3.95	16.500	1.45	22.50	0.95
4.517	1.78	10.517	3.74	16.517	1.43	22.52	0.94
4.533	1.78	10.533	3.74	16.533	1.43	22.53	0.94
4.550	1.78	10.550	3.74	16.550	1.43	22.55	0.94
4.567	1.78	10.567	3.74	16.567	1.43	22.57	0.94
4.583	1.78	10.583	3.74	16.583	1.43	22.58	0.94
4.600	1.78	10.600	3.74	16.600	1.43	22.60	0.94
4.617	1.78	10.617	3.74	16.617	1.43	22.62	0.94
4.633	1.78	10.633	3.74	16.633	1.43	22.63	0.94
4.650	1.78	10.650	3.74	16.650	1.43	22.65	0.94
4.667	1.78	10.667	3.74	16.667	1.43	22.67	0.94
4.683	1.86	10.683	3.55	16.683	1.41	22.68	0.93
4.700	1.86	10.700	3.55	16.700	1.41	22.70	0.93
4.717	1.86	10.717	3.55	16.717	1.41	22.72	0.93
4.733	1.86	10.733	3.55	16.733	1.41	22.73	0.93
4.750	1.86	10.750	3.55	16.750	1.41	22.75	0.93
4.767	1.86	10.767	3.55	16.767	1.41	22.77	0.93
4.783	1.86	10.783	3.55	16.783	1.41	22.78	0.93
4.800	1.86	10.800	3.55	16.800	1.41	22.80	0.93
4.817	1.86	10.817	3.55	16.817	1.41	22.82	0.93
4.833	1.86	10.833	3.55	16.833	1.41	22.83	0.93
4.850	1.94	10.850	3.39	16.850	1.39	22.85	0.92
4.867	1.94	10.867	3.39	16.867	1.39	22.87	0.92
4.883	1.94	10.883	3.39	16.883	1.39	22.88	0.92
4.900	1.94	10.900	3.39	16.900	1.39	22.90	0.92
4.917	1.94	10.917	3.39	16.917	1.39	22.92	0.92
4.933	1.94	10.933	3.39	16.933	1.39	22.93	0.92
4.950	1.94	10.950	3.39	16.950	1.39	22.95	0.92
4.967	1.94	10.967	3.39	16.967	1.39	22.97	0.92
4.983	1.94	10.983	3.39	16.983	1.39	22.98	0.92
5.000	1.94	11.000	3.39	17.000	1.39	23.00	0.92
5.017	2.03	11.017	3.24	17.017	1.37	23.02	0.91
5.033	2.03	11.033	3.24	17.033	1.37	23.03	0.91
5.050	2.03	11.050	3.24	17.050	1.37	23.05	0.91
5.067	2.03	11.067	3.24	17.067	1.37	23.07	0.91
5.083	2.03	11.083	3.24	17.083	1.37	23.08	0.91
5.100	2.03	11.100	3.24	17.100	1.37	23.10	0.91
5.117	2.03	11.117	3.24	17.117	1.37	23.12	0.91
5.133	2.03	11.133	3.24	17.133	1.37	23.13	0.91
5.150	2.03	11.150	3.24	17.150	1.37	23.15	0.91
5.167	2.03	11.167	3.24	17.167	1.37	23.17	0.91
5.183	2.14	11.183	3.11	17.183	1.35	23.18	0.91
5.200	2.14	11.200	3.11	17.200	1.35	23.20	0.91
5.217	2.14	11.217	3.11	17.217	1.35	23.22	0.91
5.233	2.14	11.233	3.11	17.233	1.35	23.23	0.91
5.250	2.14	11.250	3.11	17.250	1.35	23.25	0.91
5.267	2.14	11.267	3.11	17.267	1.35	23.27	0.91
5.283	2.14	11.283	3.11	17.283	1.35	23.28	0.91
5.300	2.14	11.300	3.11	17.300	1.35	23.30	0.91
5.317	2.14	11.317	3.11	17.317	1.35	23.32	0.91
5.333	2.14	11.333	3.11	17.333	1.35	23.33	0.91
5.350	2.26	11.350	2.98	17.350	1.33	23.35	0.90
5.367	2.26	11.367	2.98	17.367	1.33	23.37	0.90
5.383	2.26	11.383	2.98	17.383	1.33	23.38	0.90
5.400	2.26	11.400	2.98	17.400	1.33	23.40	0.90
5.417	2.26	11.417	2.98	17.417	1.33	23.42	0.90
5.433	2.26	11.433	2.98	17.433	1.33	23.43	0.90
5.450	2.26	11.450	2.98	17.450	1.33	23.45	0.90
5.467	2.26	11.467	2.98	17.467	1.33	23.47	0.90
5.483	2.26	11.483	2.98	17.483	1.33	23.48	0.90
5.500	2.26	11.500	2.98	17.500	1.33	23.50	0.90
5.517	2.39	11.517	2.87	17.517	1.31	23.52	0.89
5.533	2.39	11.533	2.87	17.533	1.31	23.53	0.89
5.550	2.39	11.550	2.87	17.550	1.31	23.55	0.89
5.567	2.39	11.567	2.87	17.567	1.31	23.57	0.89
5.583	2.39	11.583	2.87	17.583	1.31	23.58	0.89
5.600	2.39	11.600	2.87	17.600	1.31	23.60	0.89
5.617	2.39	11.617	2.87	17.617	1.31	23.62	0.89
5.633	2.39	11.633	2.87	17.633	1.31	23.63	0.89
5.650	2.39	11.650	2.87	17.650	1.31	23.65	0.89
5.667	2.39	11.667	2.87	17.667	1.31	23.67	0.89
5.683	2.54	11.683	2.77	17.683	1.29	23.68	0.88
5.700	2.54	11.700	2.77	17.700	1.29	23.70	0.88
5.717	2.54	11.717	2.77	17.717	1.29	23.72	0.88
5.733	2.54	11.733	2.77	17.733	1.29	23.73	0.88
5.750	2.54	11.750	2.77	17.750	1.29	23.75	0.88
5.767	2.54	11.767	2.77	17.767	1.29	23.77	0.88
5.783	2.54	11.783	2.77	17.783	1.29	23.78	0.88
5.800	2.54	11.800	2.77	17.800	1.29	23.80	0.88
5.817	2.54	11.817	2.77	17.817	1.29	23.82	0.88
5.833	2.54	11.833	2.77	17.833	1.29	23.83	0.88
5.850	2.72	11.850	2.67	17.850	1.27	23.85	0.88
5.867	2.72	11.867	2.67	17.867	1.27	23.87	0.88
5.883	2.72	11.883	2.67	17.883	1.27	23.88	0.88
5.900	2.72	11.900	2.67	17.900	1.27	23.90	0.88
5.917	2.72	11.917	2.67	17.917	1.27	23.92	0.88
5.933	2.72	11.933	2.67	17.933	1.27	23.93	0.88
5.950	2.72	11.950	2.67	17.950	1.27	23.95	0.88
5.967	2.72	11.967	2.67	17.967	1.27	23.97	0.88
5.983	2.72	11.983	2.67	17.983	1.27	23.98	0.88
6.000	2.72	12.000	2.67	18.000	1.27	24.00	0.88

Max.Eff.Inten.(mm/hr)=	143.01	92.02	
over (min)	5.00	8.00	
Storage Coeff. (min)=	4.46 (ii)	7.00 (ii)	
Unit Hyd. Tpeak (min)=	5.00	8.00	
Unit Hyd. peak (cms)=	0.24	0.15	
			TOTALS
PEAK FLOW (cms)=	4.80	0.29	5.059 (iii)
TIME TO PEAK (hrs)=	8.02	8.07	8.02
RUNOFF VOLUME (mm)=	96.00	61.86	92.59
TOTAL RAINFALL (mm)=	97.01	97.01	97.01
RUNOFF COEFFICIENT =	0.99	0.64	0.95

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 85.0 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
STANDHYD (0013) | Area (ha)= 2.56
ID= 1 DT= 1.0 min | Total Imp(%)= 99.00 Dir. Conn.(%)= 99.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	2.53	0.03
Dep. Storage	(mm)=	1.00	5.00
Average Slope	(%)=	1.00	2.00
Length	(m)=	130.64	40.00
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 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
0.017	0.89	6.017	2.92	12.017	2.59	18.02	1.26
0.033	0.89	6.033	2.92	12.033	2.59	18.03	1.26
0.050	0.89	6.050	2.92	12.050	2.59	18.05	1.26
0.067	0.89	6.067	2.92	12.067	2.59	18.07	1.26
0.083	0.89	6.083	2.92	12.083	2.59	18.08	1.26
0.100	0.89	6.100	2.92	12.100	2.59	18.10	1.26
0.117	0.89	6.117	2.92	12.117	2.59	18.12	1.26
0.133	0.89	6.133	2.92	12.133	2.59	18.13	1.26
0.150	0.89	6.150	2.92	12.150	2.59	18.15	1.26
0.167	0.89	6.167	2.92	12.167	2.59	18.17	1.26
0.183	0.91	6.183	3.17	12.183	2.50	18.18	1.24

0.200	0.91	6.200	3.17	12.200	2.50	18.20	1.24
0.217	0.91	6.217	3.17	12.217	2.50	18.22	1.24
0.233	0.91	6.233	3.17	12.233	2.50	18.23	1.24
0.250	0.91	6.250	3.17	12.250	2.50	18.25	1.24
0.267	0.91	6.267	3.17	12.267	2.50	18.27	1.24
0.283	0.91	6.283	3.17	12.283	2.50	18.28	1.24
0.300	0.91	6.300	3.17	12.300	2.50	18.30	1.24
0.317	0.91	6.317	3.17	12.317	2.50	18.32	1.24
0.333	0.91	6.333	3.17	12.333	2.50	18.33	1.24
0.350	0.92	6.350	3.47	12.350	2.43	18.35	1.22
0.367	0.92	6.367	3.47	12.367	2.43	18.37	1.22
0.383	0.92	6.383	3.47	12.383	2.43	18.38	1.22
0.400	0.92	6.400	3.47	12.400	2.43	18.40	1.22
0.417	0.92	6.417	3.47	12.417	2.43	18.42	1.22
0.433	0.92	6.433	3.47	12.433	2.43	18.43	1.22
0.450	0.92	6.450	3.47	12.450	2.43	18.45	1.22
0.467	0.92	6.467	3.47	12.467	2.43	18.47	1.22
0.483	0.92	6.483	3.47	12.483	2.43	18.48	1.22
0.500	0.92	6.500	3.47	12.500	2.43	18.50	1.22
0.517	0.94	6.517	3.84	12.517	2.36	18.52	1.21
0.533	0.94	6.533	3.84	12.533	2.36	18.53	1.21
0.550	0.94	6.550	3.84	12.550	2.36	18.55	1.21
0.567	0.94	6.567	3.84	12.567	2.36	18.57	1.21
0.583	0.94	6.583	3.84	12.583	2.36	18.58	1.21
0.600	0.94	6.600	3.84	12.600	2.36	18.60	1.21
0.617	0.94	6.617	3.84	12.617	2.36	18.62	1.21
0.633	0.94	6.633	3.84	12.633	2.36	18.63	1.21
0.650	0.94	6.650	3.84	12.650	2.36	18.65	1.21
0.667	0.94	6.667	3.84	12.667	2.36	18.67	1.21
0.683	0.96	6.683	4.31	12.683	2.29	18.68	1.19
0.700	0.96	6.700	4.31	12.700	2.29	18.70	1.19
0.717	0.96	6.717	4.31	12.717	2.29	18.72	1.19
0.733	0.96	6.733	4.31	12.733	2.29	18.73	1.19
0.750	0.96	6.750	4.31	12.750	2.29	18.75	1.19
0.767	0.96	6.767	4.31	12.767	2.29	18.77	1.19
0.783	0.96	6.783	4.31	12.783	2.29	18.78	1.19
0.800	0.96	6.800	4.31	12.800	2.29	18.80	1.19
0.817	0.96	6.817	4.31	12.817	2.29	18.82	1.19
0.833	0.96	6.833	4.31	12.833	2.29	18.83	1.19
0.850	0.98	6.850	4.94	12.850	2.23	18.85	1.18
0.867	0.98	6.867	4.94	12.867	2.23	18.87	1.18
0.883	0.98	6.883	4.94	12.883	2.23	18.88	1.18
0.900	0.98	6.900	4.94	12.900	2.23	18.90	1.18
0.917	0.98	6.917	4.94	12.917	2.23	18.92	1.18
0.933	0.98	6.933	4.94	12.933	2.23	18.93	1.18
0.950	0.98	6.950	4.94	12.950	2.23	18.95	1.18
0.967	0.98	6.967	4.94	12.967	2.23	18.97	1.18
0.983	0.98	6.983	4.94	12.983	2.23	18.98	1.18
1.000	0.98	7.000	4.94	13.000	2.23	19.00	1.18
1.017	1.00	7.017	5.82	13.017	2.17	19.02	1.17
1.033	1.00	7.033	5.82	13.033	2.17	19.03	1.17
1.050	1.00	7.050	5.82	13.050	2.17	19.05	1.17
1.067	1.00	7.067	5.82	13.067	2.17	19.07	1.17
1.083	1.00	7.083	5.82	13.083	2.17	19.08	1.17
1.100	1.00	7.100	5.82	13.100	2.17	19.10	1.17
1.117	1.00	7.117	5.82	13.117	2.17	19.12	1.17
1.133	1.00	7.133	5.82	13.133	2.17	19.13	1.17
1.150	1.00	7.150	5.82	13.150	2.17	19.15	1.17
1.167	1.00	7.167	5.82	13.167	2.17	19.17	1.17
1.183	1.02	7.183	7.15	13.183	2.11	19.18	1.15
1.200	1.02	7.200	7.15	13.200	2.11	19.20	1.15
1.217	1.02	7.217	7.15	13.217	2.11	19.22	1.15
1.233	1.02	7.233	7.15	13.233	2.11	19.23	1.15
1.250	1.02	7.250	7.15	13.250	2.11	19.25	1.15
1.267	1.02	7.267	7.15	13.267	2.11	19.27	1.15
1.283	1.02	7.283	7.15	13.283	2.11	19.28	1.15
1.300	1.02	7.300	7.15	13.300	2.11	19.30	1.15
1.317	1.02	7.317	7.15	13.317	2.11	19.32	1.15
1.333	1.02	7.333	7.15	13.333	2.11	19.33	1.15
1.350	1.04	7.350	9.42	13.350	2.06	19.35	1.14
1.367	1.04	7.367	9.42	13.367	2.06	19.37	1.14
1.383	1.04	7.383	9.42	13.383	2.06	19.38	1.14
1.400	1.04	7.400	9.42	13.400	2.06	19.40	1.14
1.417	1.04	7.417	9.42	13.417	2.06	19.42	1.14
1.433	1.04	7.433	9.42	13.433	2.06	19.43	1.14
1.450	1.04	7.450	9.42	13.450	2.06	19.45	1.14
1.467	1.04	7.467	9.42	13.467	2.06	19.47	1.14
1.483	1.04	7.483	9.42	13.483	2.06	19.48	1.14
1.500	1.04	7.500	9.43	13.500	2.06	19.50	1.14
1.517	1.06	7.517	14.31	13.517	2.01	19.52	1.13
1.533	1.06	7.533	14.31	13.533	2.01	19.53	1.13
1.550	1.06	7.550	14.31	13.550	2.01	19.55	1.13
1.567	1.06	7.567	14.31	13.567	2.01	19.57	1.13
1.583	1.06	7.583	14.31	13.583	2.01	19.58	1.13
1.600	1.06	7.600	14.31	13.600	2.01	19.60	1.13
1.617	1.06	7.617	14.31	13.617	2.01	19.62	1.13
1.633	1.06	7.633	14.31	13.633	2.01	19.63	1.13
1.650	1.06	7.650	14.31	13.650	2.01	19.65	1.13
1.667	1.06	7.667	14.37	13.667	2.01	19.67	1.13
1.683	1.08	7.683	34.08	13.683	1.97	19.68	1.11
1.700	1.08	7.700	34.08	13.700	1.97	19.70	1.11
1.717	1.08	7.717	34.08	13.717	1.97	19.72	1.11
1.733	1.08	7.733	34.08	13.733	1.97	19.73	1.11
1.750	1.08	7.750	34.08	13.750	1.97	19.75	1.11
1.767	1.08	7.767	34.08	13.767	1.97	19.77	1.11
1.783	1.08	7.783	34.08	13.783	1.97	19.78	1.11
1.800	1.08	7.800	34.08	13.800	1.97	19.80	1.11
1.817	1.08	7.817	34.08	13.817	1.97	19.82	1.11
1.833	1.08	7.833	34.39	13.833	1.97	19.83	1.11
1.850	1.11	7.850	143.01	13.850	1.92	19.85	1.10
1.867	1.11	7.867	143.01	13.867	1.92	19.87	1.10
1.883	1.11	7.883	143.01	13.883	1.92	19.88	1.10
1.900	1.11	7.900	143.01	13.900	1.92	19.90	1.10
1.917	1.11	7.917	143.01	13.917	1.92	19.92	1.10
1.933	1.11	7.933	143.01	13.933	1.92	19.93	1.10
1.950	1.11	7.950	143.01	13.950	1.92	19.95	1.10
1.967	1.11	7.967	143.01	13.967	1.92	19.97	1.10
1.983	1.11	7.983	143.01	13.983	1.92	19.98	1.10
2.000	1.11	8.000	142.72	14.000	1.92	20.00	1.10
2.017	1.13	8.017	44.65	14.017	1.88	20.02	1.09
2.033	1.13	8.033	44.65	14.033	1.88	20.03	1.09
2.050	1.13	8.050	44.65	14.050	1.88	20.05	1.09
2.067	1.13	8.067	44.65	14.067	1.88	20.07	1.09
2.083	1.13	8.083	44.65	14.083	1.88	20.08	1.09
2.100	1.13	8.100	44.65	14.100	1.88	20.10	1.09
2.117	1.13	8.117	44.65	14.117	1.88	20.12	1.09
2.133	1.13	8.133	44.65	14.133	1.88	20.13	1.09
2.150	1.13	8.150	44.65	14.150	1.88	20.15	1.09
2.167	1.13	8.167	44.59	14.167	1.88	20.17	1.09
2.183	1.16	8.183	23.56	14.183	1.84	20.18	1.08
2.200	1.16	8.200	23.56	14.200	1.84	20.20	1.08
2.217	1.16	8.217	23.56	14.217	1.84	20.22	1.08
2.233	1.16	8.233	23.56	14.233	1.84	20.23	1.08
2.250	1.16	8.250	23.56	14.250	1.84	20.25	1.08
2.267	1.16	8.267	23.56	14.267	1.84	20.27	1.08
2.283	1.16	8.283	23.56	14.283	1.84	20.28	1.08
2.300	1.16	8.300	23.56	14.300	1.84	20.30	1.08
2.317	1.16	8.317	23.56	14.317	1.84	20.32	1.08
2.333	1.16	8.333	23.54	14.333	1.84	20.33	1.08
2.350	1.19	8.350	16.20	14.350	1.80	20.35	1.07
2.367	1.19	8.367	16.20	14.367	1.80	20.37	1.07
2.383	1.19	8.383	16.20	14.383	1.80	20.38	1.07
2.400	1.19	8.400	16.20	14.400	1.80	20.40	1.07
2.417	1.19	8.417	16.20	14.417	1.80	20.42	1.07
2.433	1.19	8.433	16.20	14.433	1.80	20.43	1.07
2.450	1.19	8.450	16.20	14.450	1.80	20.45	1.07
2.467	1.19	8.467	16.20	14.467	1.80	20.47	1.07
2.483	1.19	8.483	16.20	14.483	1.80	20.48	1.07
2.500	1.19	8.500	16.19	14.500	1.80	20.50	1.07
2.517	1.22	8.517	12.46	14.517	1.76	20.52	1.05
2.533	1.22	8.533	12.46	14.533	1.76	20.53	1.05
2.550	1.22	8.550	12.46	14.550	1.76	20.55	1.05
2.567	1.22	8.567	12.46	14.567	1.76	20.57	1.05
2.583	1.22	8.583	12.46	14.583	1.76	20.58	1.05
2.600	1.22	8.600	12.46	14.600	1.76	20.60	1.05
2.617	1.22	8.617	12.46	14.617	1.76	20.62	1.05
2.633	1.22	8.633	12.46	14.633	1.76	20.63	1.05
2.650	1.22	8.650	12.46	14.650	1.76	20.65	1.05
2.667	1.22	8.667	12.45	14.667	1.76	20.67	1.05
2.683	1.25	8.683	10.19	14.683	1.73	20.68	1.04
2.700	1.25	8.700	10.19	14.700	1.73	20.70	1.04
2.717	1.25	8.717	10.19	14.717	1.73	20.72	1.04
2.733	1.25	8.733	10.19	14.733	1.73	20.73	1.04
2.750	1.25	8.750	10.19	14.750	1.73	20.75	1.04
2.767	1.25	8.767	10.19	14.767	1.73	20.77	1.04
2.783	1.25	8.783	10.19	14.783	1.73	20.78	1.04
2.800	1.25	8.800	10.19	14.800	1.73	20.80	1.04
2.817	1.25	8.817	10.19	14.817	1.73	20.82	1.04
2.833	1.25	8.833	10.19	14.833	1.73	20.83	1.04
2.850	1.28	8.850	8.67	14.850	1.70	20.85	1.03
2.867	1.28	8.867	8.67	14.867	1.70	20.87	1.03
2.883	1.28	8.883	8.67	14.883	1.70	20.88	1.03
2.900	1.28	8.900	8.67	14.900	1.70	20.90	1.03
2.917	1.28	8.917	8.67	14.917	1.70	20.92	1.03
2.933	1.28	8.933	8.67	14.933	1.70	20.93	1.03
2.950	1.28	8.950	8.67	14.950	1.70	20.95	1.03
2.967	1.28	8.967	8.67	14.967	1.70	20.97	1.03
2.983	1.28	8.983	8.67	14.983	1.70	20.98	1.03
3.000	1.28	9.000	8.67	15.000	1.70	21.00	1.03
3.017	1.32	9.017	7.57	15.017	1.66	21.02	1.02
3.033	1.32	9.033	7.57	15.033	1.66	21.03	1.02
3.050	1.32	9.050	7.57	15.050	1.66	21.05	1.02
3.067	1.32	9.067	7.57	15.067	1.66	21.07	1.02
3.083	1.32	9.083	7.57	15.083	1.66	21.08	1.02
3.100	1.32	9.100	7.57	15.100	1.66	21.10	1.02
3.117	1.32	9.117	7.57	15.117	1.66	21.12	1.02
3.133	1.32	9.133	7.57	15.133	1.66	21.13	1.02
3.150	1.32	9.150	7.57	15.150	1.66	21.15	1.02
3.167	1.32	9.167	7.57	15.167	1.66	21.17	1.02
3.183	1.35	9.183	6.74	15.183	1.63	21.18	1.01
3.200	1.35	9.200	6.74	15.200	1.63	21.20	1.01
3.217	1.35	9.217	6.74	15.217	1.63	21.22	1.01
3.233	1.35	9.233	6.74	15.233	1.63	21.23	1.01
3.250	1.35	9.250	6.74	15.250	1.63	21.25	1.01
3.267	1.35	9.267	6.74	15.267	1.63	21.27	1.01
3.283	1.35	9.283	6.74	15.283	1.63	21.28	1.01
3.300	1.35	9.300	6.74	15.300	1.63	21.30	1.01
3.317	1.35	9.317	6.74	15.317	1.63	21.32	1.01
3.333	1.35	9.333	6.74	15.333	1.63	21.33	1.01
3.350	1.39	9.350	6.09	15.350	1.60	21.35	1.00
3.367	1.39	9.367	6.09	15.367	1.60	21.37	1.00
3.383	1.39	9.383	6.09	15.383	1.60	21.38	1.00
3.400	1.39	9.400	6.09	15.400	1.60	21.40	1.00
3.417	1.39	9.417	6.09	15.417	1.60	21.42	1.00
3.433	1.39	9.433	6.09	15.433	1.60	21.43	1.00
3.450	1.39	9.450	6.09	15.450	1.60	21.45	1.00
3.467	1.39	9.467	6.09	15.467	1.60	21.47	1.00
3.483	1.39	9.483	6.09	15.483	1.60	21.48	1.00
3.500	1.39	9.500	6.09	15.500	1.60	21.50	1.00
3.517	1.44	9.517	5.56	15.517	1.58	21.52	0.99

3.533	1.44	9.533	5.56	15.533	1.58	21.53	0.99
3.550	1.44	9.550	5.56	15.550	1.58	21.55	0.99
3.567	1.44	9.567	5.56	15.567	1.58	21.57	0.99
3.583	1.44	9.583	5.56	15.583	1.58	21.58	0.99
3.600	1.44	9.600	5.56	15.600	1.58	21.60	0.99
3.617	1.44	9.617	5.56	15.617	1.58	21.62	0.99
3.633	1.44	9.633	5.56	15.633	1.58	21.63	0.99
3.650	1.44	9.650	5.56	15.650	1.58	21.65	0.99
3.667	1.44	9.667	5.56	15.667	1.58	21.67	0.99
3.683	1.48	9.683	5.13	15.683	1.55	21.68	0.98
3.700	1.48	9.700	5.13	15.700	1.55	21.70	0.98
3.717	1.48	9.717	5.13	15.717	1.55	21.72	0.98
3.733	1.48	9.733	5.13	15.733	1.55	21.73	0.98
3.750	1.48	9.750	5.13	15.750	1.55	21.75	0.98
3.767	1.48	9.767	5.13	15.767	1.55	21.77	0.98
3.783	1.48	9.783	5.13	15.783	1.55	21.78	0.98
3.800	1.48	9.800	5.13	15.800	1.55	21.80	0.98
3.817	1.48	9.817	5.13	15.817	1.55	21.82	0.98
3.833	1.48	9.833	5.13	15.833	1.55	21.83	0.98
3.850	1.53	9.850	4.76	15.850	1.52	21.85	0.97
3.867	1.53	9.867	4.76	15.867	1.52	21.87	0.97
3.883	1.53	9.883	4.76	15.883	1.52	21.88	0.97
3.900	1.53	9.900	4.76	15.900	1.52	21.90	0.97
3.917	1.53	9.917	4.76	15.917	1.52	21.92	0.97
3.933	1.53	9.933	4.76	15.933	1.52	21.93	0.97
3.950	1.53	9.950	4.76	15.950	1.52	21.95	0.97
3.967	1.53	9.967	4.76	15.967	1.52	21.97	0.97
3.983	1.53	9.983	4.76	15.983	1.52	21.98	0.97
4.000	1.53	10.000	4.76	16.000	1.52	22.00	0.97
4.017	1.59	10.017	4.45	16.017	1.50	22.02	0.96
4.033	1.59	10.033	4.45	16.033	1.50	22.03	0.96
4.050	1.59	10.050	4.45	16.050	1.50	22.05	0.96
4.067	1.59	10.067	4.45	16.067	1.50	22.07	0.96
4.083	1.59	10.083	4.45	16.083	1.50	22.08	0.96
4.100	1.59	10.100	4.45	16.100	1.50	22.10	0.96
4.117	1.59	10.117	4.45	16.117	1.50	22.12	0.96
4.133	1.59	10.133	4.45	16.133	1.50	22.13	0.96
4.150	1.59	10.150	4.45	16.150	1.50	22.15	0.96
4.167	1.59	10.167	4.45	16.167	1.50	22.17	0.96
4.183	1.65	10.183	4.18	16.183	1.47	22.18	0.96
4.200	1.65	10.200	4.18	16.200	1.47	22.20	0.96
4.217	1.65	10.217	4.18	16.217	1.47	22.22	0.96
4.233	1.65	10.233	4.18	16.233	1.47	22.23	0.96
4.250	1.65	10.250	4.18	16.250	1.47	22.25	0.96
4.267	1.65	10.267	4.18	16.267	1.47	22.27	0.96
4.283	1.65	10.283	4.18	16.283	1.47	22.28	0.96
4.300	1.65	10.300	4.18	16.300	1.47	22.30	0.96
4.317	1.65	10.317	4.18	16.317	1.47	22.32	0.96
4.333	1.65	10.333	4.18	16.333	1.47	22.33	0.96
4.350	1.71	10.350	3.95	16.350	1.45	22.35	0.95
4.367	1.71	10.367	3.95	16.367	1.45	22.37	0.95
4.383	1.71	10.383	3.95	16.383	1.45	22.38	0.95
4.400	1.71	10.400	3.95	16.400	1.45	22.40	0.95
4.417	1.71	10.417	3.95	16.417	1.45	22.42	0.95
4.433	1.71	10.433	3.95	16.433	1.45	22.43	0.95
4.450	1.71	10.450	3.95	16.450	1.45	22.45	0.95
4.467	1.71	10.467	3.95	16.467	1.45	22.47	0.95
4.483	1.71	10.483	3.95	16.483	1.45	22.48	0.95
4.500	1.71	10.500	3.95	16.500	1.45	22.50	0.95
4.517	1.78	10.517	3.74	16.517	1.43	22.52	0.94
4.533	1.78	10.533	3.74	16.533	1.43	22.53	0.94
4.550	1.78	10.550	3.74	16.550	1.43	22.55	0.94
4.567	1.78	10.567	3.74	16.567	1.43	22.57	0.94
4.583	1.78	10.583	3.74	16.583	1.43	22.58	0.94
4.600	1.78	10.600	3.74	16.600	1.43	22.60	0.94
4.617	1.78	10.617	3.74	16.617	1.43	22.62	0.94
4.633	1.78	10.633	3.74	16.633	1.43	22.63	0.94
4.650	1.78	10.650	3.74	16.650	1.43	22.65	0.94
4.667	1.78	10.667	3.74	16.667	1.43	22.67	0.94
4.683	1.86	10.683	3.55	16.683	1.41	22.68	0.93
4.700	1.86	10.700	3.55	16.700	1.41	22.70	0.93
4.717	1.86	10.717	3.55	16.717	1.41	22.72	0.93
4.733	1.86	10.733	3.55	16.733	1.41	22.73	0.93
4.750	1.86	10.750	3.55	16.750	1.41	22.75	0.93
4.767	1.86	10.767	3.55	16.767	1.41	22.77	0.93
4.783	1.86	10.783	3.55	16.783	1.41	22.78	0.93
4.800	1.86	10.800	3.55	16.800	1.41	22.80	0.93
4.817	1.86	10.817	3.55	16.817	1.41	22.82	0.93
4.833	1.86	10.833	3.55	16.833	1.41	22.83	0.93
4.850	1.94	10.850	3.39	16.850	1.39	22.85	0.92
4.867	1.94	10.867	3.39	16.867	1.39	22.87	0.92
4.883	1.94	10.883	3.39	16.883	1.39	22.88	0.92
4.900	1.94	10.900	3.39	16.900	1.39	22.90	0.92
4.917	1.94	10.917	3.39	16.917	1.39	22.92	0.92
4.933	1.94	10.933	3.39	16.933	1.39	22.93	0.92
4.950	1.94	10.950	3.39	16.950	1.39	22.95	0.92
4.967	1.94	10.967	3.39	16.967	1.39	22.97	0.92
4.983	1.94	10.983	3.39	16.983	1.39	22.98	0.92
5.000	1.94	11.000	3.39	17.000	1.39	23.00	0.92
5.017	2.03	11.017	3.24	17.017	1.37	23.02	0.91
5.033	2.03	11.033	3.24	17.033	1.37	23.03	0.91
5.050	2.03	11.050	3.24	17.050	1.37	23.05	0.91
5.067	2.03	11.067	3.24	17.067	1.37	23.07	0.91
5.083	2.03	11.083	3.24	17.083	1.37	23.08	0.91
5.100	2.03	11.100	3.24	17.100	1.37	23.10	0.91
5.117	2.03	11.117	3.24	17.117	1.37	23.12	0.91
5.133	2.03	11.133	3.24	17.133	1.37	23.13	0.91
5.150	2.03	11.150	3.24	17.150	1.37	23.15	0.91
5.167	2.03	11.167	3.24	17.167	1.37	23.17	0.91
5.183	2.14	11.183	3.11	17.183	1.35	23.18	0.91
5.200	2.14	11.200	3.11	17.200	1.35	23.20	0.91
5.217	2.14	11.217	3.11	17.217	1.35	23.22	0.91
5.233	2.14	11.233	3.11	17.233	1.35	23.23	0.91
5.250	2.14	11.250	3.11	17.250	1.35	23.25	0.91
5.267	2.14	11.267	3.11	17.267	1.35	23.27	0.91
5.283	2.14	11.283	3.11	17.283	1.35	23.28	0.91
5.300	2.14	11.300	3.11	17.300	1.35	23.30	0.91
5.317	2.14	11.317	3.11	17.317	1.35	23.32	0.91
5.333	2.14	11.333	3.11	17.333	1.35	23.33	0.91
5.350	2.26	11.350	2.98	17.350	1.33	23.35	0.90
5.367	2.26	11.367	2.98	17.367	1.33	23.37	0.90
5.383	2.26	11.383	2.98	17.383	1.33	23.38	0.90
5.400	2.26	11.400	2.98	17.400	1.33	23.40	0.90
5.417	2.26	11.417	2.98	17.417	1.33	23.42	0.90
5.433	2.26	11.433	2.98	17.433	1.33	23.43	0.90
5.450	2.26	11.450	2.98	17.450	1.33	23.45	0.90
5.467	2.26	11.467	2.98	17.467	1.33	23.47	0.90
5.483	2.26	11.483	2.98	17.483	1.33	23.48	0.90
5.500	2.26	11.500	2.98	17.500	1.33	23.50	0.90
5.517	2.39	11.517	2.87	17.517	1.31	23.52	0.89
5.533	2.39	11.533	2.87	17.533	1.31	23.53	0.89
5.550	2.39	11.550	2.87	17.550	1.31	23.55	0.89
5.567	2.39	11.567	2.87	17.567	1.31	23.57	0.89
5.583	2.39	11.583	2.87	17.583	1.31	23.58	0.89
5.600	2.39	11.600	2.87	17.600	1.31	23.60	0.89
5.617	2.39	11.617	2.87	17.617	1.31	23.62	0.89
5.633	2.39	11.633	2.87	17.633	1.31	23.63	0.89
5.650	2.39	11.650	2.87	17.650	1.31	23.65	0.89
5.667	2.39	11.667	2.87	17.667	1.31	23.67	0.89
5.683	2.54	11.683	2.77	17.683	1.29	23.68	0.88
5.700	2.54	11.700	2.77	17.700	1.29	23.70	0.88
5.717	2.54	11.717	2.77	17.717	1.29	23.72	0.88
5.733	2.54	11.733	2.77	17.733	1.29	23.73	0.88
5.750	2.54	11.750	2.77	17.750	1.29	23.75	0.88
5.767	2.54	11.767	2.77	17.767	1.29	23.77	0.88
5.783	2.54	11.783	2.77	17.783	1.29	23.78	0.88
5.800	2.54	11.800	2.77	17.800	1.29	23.80	0.88
5.817	2.54	11.817	2.77	17.817	1.29	23.82	0.88
5.833	2.54	11.833	2.77	17.833	1.29	23.83	0.88
5.850	2.72	11.850	2.67	17.850	1.27	23.85	0.88
5.867	2.72	11.867	2.67	17.867	1.27	23.87	0.88
5.883	2.72	11.883	2.67	17.883	1.27	23.88	0.88
5.900	2.72	11.900	2.67	17.900	1.27	23.90	0.88
5.917	2.72	11.917	2.67	17.917	1.27	23.92	0.88
5.933	2.72	11.933	2.67	17.933	1.27	23.93	0.88
5.950	2.72	11.950	2.67	17.950	1.27	23.95	0.88
5.967	2.72	11.967	2.67	17.967	1.27	23.97	0.88
5.983	2.72	11.983	2.67	17.983	1.27	23.98	0.88
6.000	2.72	12.000	2.67	18.000	1.27	24.00	0.88

```
    Max.Eff.Inten.(mm/hr)=     143.01        92.02
              over (min)         5.00         4.00
    Storage Coeff.  (min)=      2.60 (ii)    3.57 (ii)
    Unit Hyd. Tpeak (min)=      5.00         4.00
    Unit Hyd. peak  (cms)=      0.33         0.30
                                                        *TOTALS*
    PEAK FLOW       (cms)=      0.96         0.01          0.966 (iii)
    TIME TO PEAK    (hrs)=      8.00         8.02          8.00
    RUNOFF VOLUME    (mm)=     96.00        61.86         95.66
    TOTAL RAINFALL   (mm)=     97.01        97.01         97.01
    RUNOFF COEFFICIENT   =      0.99         0.64          0.99


      (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
           CN*  =  85.0    Ia = Dep. Storage  (Above)
     (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
          THAN THE STORAGE COEFFICIENT.
    (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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

--------------------
| ADD HYD  (  0012)|
|   1 +  2 =  3    |         AREA    QPEAK    TPEAK     R.V.
--------------------         (ha)    (cms)    (hrs)     (mm)
       ID1= 1 (  0010):    15.53   5.059     8.02    92.59
     + ID2= 2 (  0013):     2.56   0.966     8.00    95.66
       ================================================
       ID = 3 (  0012):    18.09   6.014     8.02    93.03

    NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
--------------------------------------------------------------------------------
--------------------
| RESERVOIR(  0011)|     OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT=  1.0 min     |     OUTFLOW    STORAGE   |  OUTFLOW    STORAGE
--------------------      (cms)     (ha.m.)   |   (cms)     (ha.m.)
                          0.0000      0.0000   |    2.8110      0.4813
                          0.0590      0.3542   |    3.2550      0.5511
                          1.5560      0.3695   |    4.0320      0.5885
                          2.2770      0.4312   |    4.6420      0.6202

                               AREA     QPEAK     TPEAK       R.V.
                               (ha)     (cms)     (hrs)       (mm)
   INFLOW : ID= 2 (  0012)     18.090      6.014      8.02      93.03
   OUTFLOW: ID= 1 (  0011)     18.090      3.253      8.13      82.22

                PEAK   FLOW   REDUCTION [Qout/Qin](%)= 54.09
                TIME SHIFT OF PEAK FLOW         (min)=  7.00
                MAXIMUM  STORAGE   USED       (ha.m.)=  0.5511
```

```
--------------------------------------------------------------------------------

 FINISH
================================================================================
========================

================================================================================
========================

       V    V   I    SSSSS  U   U    A    L              (v 6.2.2019)
       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

        OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
       O   O    T      T    H   H   Y Y   MM MM  O   O
       O   O    T      T    H   H    Y    M   M  O   O
        OOO     T      T    H   H    Y    M   M   OOO
Developed and Distributed by Smart City Water Inc
Copyright 2007 - 2022 Smart City Water Inc
All rights reserved.


                  *****  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\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\996e83
f8-b648-4675-94a9-f8a5826c9a8e\scenari
  Summary filename:
C:\Users\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\996e83
f8-b648-4675-94a9-f8a5826c9a8e\scenari


DATE: 01-27-2026                          TIME: 01:43:14

USER:


COMMENTS: _____________________________________________________________


--------------------------------------------------------------------------------
-------------------------
  ***********************************************
```

```
  ** SIMULATION : 6 - 50-Year 24hr Chic - Milto **
  ***********************************************

--------------------
| CHICAGO STORM    |    IDF curve parameters: A=1323.000
| Ptotal=110.01 mm |                          B=   5.300
--------------------                          C=   0.779
                         used in:   INTENSITY =  A / (t + B)^C

                         Duration of storm  = 24.00 hrs
                         Storm time step    = 10.00 min
                         Time to peak ratio =  0.33
```

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.00	1.05	6.00	3.38	12.00	3.00	18.00	1.47
0.17	1.07	6.17	3.66	12.17	2.90	18.17	1.45
0.33	1.08	6.33	4.00	12.33	2.82	18.33	1.43
0.50	1.10	6.50	4.42	12.50	2.73	18.50	1.41
0.67	1.12	6.67	4.96	12.67	2.66	18.67	1.40
0.83	1.14	6.83	5.67	12.83	2.59	18.83	1.38
1.00	1.17	7.00	6.66	13.00	2.52	19.00	1.36
1.17	1.19	7.17	8.15	13.17	2.46	19.17	1.35
1.33	1.21	7.33	10.70	13.33	2.40	19.33	1.33
1.50	1.24	7.50	16.13	13.50	2.34	19.50	1.32
1.67	1.27	7.67	37.84	13.67	2.29	19.67	1.30
1.83	1.29	7.83	158.18	13.83	2.23	19.83	1.29
2.00	1.32	8.00	49.42	14.00	2.19	20.00	1.27
2.17	1.35	8.17	26.31	14.17	2.14	20.17	1.26
2.33	1.39	8.33	18.21	14.33	2.10	20.33	1.25
2.50	1.42	8.50	14.08	14.50	2.05	20.50	1.23
2.67	1.46	8.67	11.56	14.67	2.01	20.67	1.22
2.83	1.50	8.83	9.86	14.83	1.98	20.83	1.21
3.00	1.54	9.00	8.63	15.00	1.94	21.00	1.20
3.17	1.58	9.17	7.70	15.17	1.90	21.17	1.19
3.33	1.63	9.33	6.96	15.33	1.87	21.33	1.17
3.50	1.68	9.50	6.37	15.50	1.84	21.50	1.16
3.67	1.73	9.67	5.88	15.67	1.81	21.67	1.15
3.83	1.79	9.83	5.47	15.83	1.78	21.83	1.14
4.00	1.85	10.00	5.12	16.00	1.75	22.00	1.13
4.17	1.92	10.17	4.81	16.17	1.72	22.17	1.12
4.33	1.99	10.33	4.55	16.33	1.69	22.33	1.11
4.50	2.07	10.50	4.31	16.50	1.67	22.50	1.10
4.67	2.16	10.67	4.10	16.67	1.64	22.67	1.09
4.83	2.26	10.83	3.91	16.83	1.62	22.83	1.08
5.00	2.36	11.00	3.74	17.00	1.59	23.00	1.07
5.17	2.48	11.17	3.59	17.17	1.57	23.17	1.06
5.33	2.62	11.33	3.45	17.33	1.55	23.33	1.05
5.50	2.77	11.50	3.32	17.50	1.53	23.50	1.04
5.67	2.95	11.67	3.20	17.67	1.51	23.67	1.04
5.83	3.15	11.83	3.10	17.83	1.49	23.83	1.03

```
--------------------------------------------------------------------------------
--------------------
| CALIB            |
| STANDHYD (  0010)|   Area    (ha)=  15.53
|ID= 1 DT= 1.0 min |   Total Imp(%)=  90.00   Dir. Conn.(%)=  90.00
--------------------
                          IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=      13.98         1.55
     Dep. Storage     (mm)=       1.00         5.00
     Average Slope     (%)=       1.00         2.00
     Length            (m)=     321.77        40.00
     Mannings n           =      0.013        0.250

         NOTE:  RAINFALL WAS TRANSFORMED TO   1.0 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
0.017	1.05	6.017	3.38	12.017	3.00	18.02	1.47
0.033	1.05	6.033	3.38	12.033	3.00	18.03	1.47
0.050	1.05	6.050	3.38	12.050	3.00	18.05	1.47
0.067	1.05	6.067	3.38	12.067	3.00	18.07	1.47
0.083	1.05	6.083	3.38	12.083	3.00	18.08	1.47
0.100	1.05	6.100	3.38	12.100	3.00	18.10	1.47
0.117	1.05	6.117	3.38	12.117	3.00	18.12	1.47
0.133	1.05	6.133	3.38	12.133	3.00	18.13	1.47
0.150	1.05	6.150	3.38	12.150	3.00	18.15	1.47
0.167	1.05	6.167	3.38	12.167	3.00	18.17	1.47
0.183	1.07	6.183	3.66	12.183	2.90	18.18	1.45
0.200	1.07	6.200	3.66	12.200	2.90	18.20	1.45
0.217	1.07	6.217	3.66	12.217	2.90	18.22	1.45
0.233	1.07	6.233	3.66	12.233	2.90	18.23	1.45
0.250	1.07	6.250	3.66	12.250	2.90	18.25	1.45
0.267	1.07	6.267	3.66	12.267	2.90	18.27	1.45
0.283	1.07	6.283	3.66	12.283	2.90	18.28	1.45
0.300	1.07	6.300	3.66	12.300	2.90	18.30	1.45
0.317	1.07	6.317	3.66	12.317	2.90	18.32	1.45
0.333	1.07	6.333	3.66	12.333	2.90	18.33	1.45
0.350	1.08	6.350	4.00	12.350	2.82	18.35	1.43
0.367	1.08	6.367	4.00	12.367	2.82	18.37	1.43
0.383	1.08	6.383	4.00	12.383	2.82	18.38	1.43
0.400	1.08	6.400	4.00	12.400	2.82	18.40	1.43
0.417	1.08	6.417	4.00	12.417	2.82	18.42	1.43
0.433	1.08	6.433	4.00	12.433	2.82	18.43	1.43
0.450	1.08	6.450	4.00	12.450	2.82	18.45	1.43
0.467	1.08	6.467	4.00	12.467	2.82	18.47	1.43
0.483	1.08	6.483	4.00	12.483	2.82	18.48	1.43
0.500	1.08	6.500	4.00	12.500	2.82	18.50	1.43
0.517	1.10	6.517	4.42	12.517	2.73	18.52	1.41
0.533	1.10	6.533	4.42	12.533	2.73	18.53	1.41
0.550	1.10	6.550	4.42	12.550	2.73	18.55	1.41
0.567	1.10	6.567	4.42	12.567	2.73	18.57	1.41
0.583	1.10	6.583	4.42	12.583	2.73	18.58	1.41
0.600	1.10	6.600	4.42	12.600	2.73	18.60	1.41
0.617	1.10	6.617	4.42	12.617	2.73	18.62	1.41
0.633	1.10	6.633	4.42	12.633	2.73	18.63	1.41
0.650	1.10	6.650	4.42	12.650	2.73	18.65	1.41
0.667	1.10	6.667	4.42	12.667	2.73	18.67	1.41
0.683	1.12	6.683	4.96	12.683	2.66	18.68	1.40
0.700	1.12	6.700	4.96	12.700	2.66	18.70	1.40
0.717	1.12	6.717	4.96	12.717	2.66	18.72	1.40
0.733	1.12	6.733	4.96	12.733	2.66	18.73	1.40
0.750	1.12	6.750	4.96	12.750	2.66	18.75	1.40
0.767	1.12	6.767	4.96	12.767	2.66	18.77	1.40
0.783	1.12	6.783	4.96	12.783	2.66	18.78	1.40
0.800	1.12	6.800	4.96	12.800	2.66	18.80	1.40
0.817	1.12	6.817	4.96	12.817	2.66	18.82	1.40
0.833	1.12	6.833	4.96	12.833	2.66	18.83	1.40
0.850	1.14	6.850	5.67	12.850	2.59	18.85	1.38
0.867	1.14	6.867	5.67	12.867	2.59	18.87	1.38
0.883	1.14	6.883	5.67	12.883	2.59	18.88	1.38
0.900	1.14	6.900	5.67	12.900	2.59	18.90	1.38
0.917	1.14	6.917	5.67	12.917	2.59	18.92	1.38
0.933	1.14	6.933	5.67	12.933	2.59	18.93	1.38
0.950	1.14	6.950	5.67	12.950	2.59	18.95	1.38
0.967	1.14	6.967	5.67	12.967	2.59	18.97	1.38
0.983	1.14	6.983	5.67	12.983	2.59	18.98	1.38
1.000	1.14	7.000	5.67	13.000	2.59	19.00	1.38
1.017	1.17	7.017	6.66	13.017	2.52	19.02	1.36
1.033	1.17	7.033	6.66	13.033	2.52	19.03	1.36
1.050	1.17	7.050	6.66	13.050	2.52	19.05	1.36
1.067	1.17	7.067	6.66	13.067	2.52	19.07	1.36
1.083	1.17	7.083	6.66	13.083	2.52	19.08	1.36
1.100	1.17	7.100	6.66	13.100	2.52	19.10	1.36
1.117	1.17	7.117	6.66	13.117	2.52	19.12	1.36
1.133	1.17	7.133	6.66	13.133	2.52	19.13	1.36
1.150	1.17	7.150	6.66	13.150	2.52	19.15	1.36
1.167	1.17	7.167	6.66	13.167	2.52	19.17	1.36
1.183	1.19	7.183	8.15	13.183	2.46	19.18	1.35
1.200	1.19	7.200	8.15	13.200	2.46	19.20	1.35
1.217	1.19	7.217	8.15	13.217	2.46	19.22	1.35
1.233	1.19	7.233	8.15	13.233	2.46	19.23	1.35
1.250	1.19	7.250	8.15	13.250	2.46	19.25	1.35
1.267	1.19	7.267	8.15	13.267	2.46	19.27	1.35
1.283	1.19	7.283	8.15	13.283	2.46	19.28	1.35
1.300	1.19	7.300	8.15	13.300	2.46	19.30	1.35

1.317	1.19	7.317	8.15	13.317	2.46	19.32	1.35
1.333	1.19	7.333	8.16	13.333	2.46	19.33	1.35
1.350	1.21	7.350	10.70	13.350	2.40	19.35	1.33
1.367	1.21	7.367	10.70	13.367	2.40	19.37	1.33
1.383	1.21	7.383	10.70	13.383	2.40	19.38	1.33
1.400	1.21	7.400	10.70	13.400	2.40	19.40	1.33
1.417	1.21	7.417	10.70	13.417	2.40	19.42	1.33
1.433	1.21	7.433	10.70	13.433	2.40	19.43	1.33
1.450	1.21	7.450	10.70	13.450	2.40	19.45	1.33
1.467	1.21	7.467	10.70	13.467	2.40	19.47	1.33
1.483	1.21	7.483	10.70	13.483	2.40	19.48	1.33
1.500	1.21	7.500	10.71	13.500	2.40	19.50	1.33
1.517	1.24	7.517	16.13	13.517	2.34	19.52	1.32
1.533	1.24	7.533	16.13	13.533	2.34	19.53	1.32
1.550	1.24	7.550	16.13	13.550	2.34	19.55	1.32
1.567	1.24	7.567	16.13	13.567	2.34	19.57	1.32
1.583	1.24	7.583	16.13	13.583	2.34	19.58	1.32
1.600	1.24	7.600	16.13	13.600	2.34	19.60	1.32
1.617	1.24	7.617	16.13	13.617	2.34	19.62	1.32
1.633	1.24	7.633	16.13	13.633	2.34	19.63	1.32
1.650	1.24	7.650	16.13	13.650	2.34	19.65	1.32
1.667	1.24	7.667	16.19	13.667	2.34	19.67	1.32
1.683	1.27	7.683	37.84	13.683	2.29	19.68	1.30
1.700	1.27	7.700	37.84	13.700	2.29	19.70	1.30
1.717	1.27	7.717	37.84	13.717	2.29	19.72	1.30
1.733	1.27	7.733	37.84	13.733	2.29	19.73	1.30
1.750	1.27	7.750	37.84	13.750	2.29	19.75	1.30
1.767	1.27	7.767	37.84	13.767	2.29	19.77	1.30
1.783	1.27	7.783	37.84	13.783	2.29	19.78	1.30
1.800	1.27	7.800	37.84	13.800	2.29	19.80	1.30
1.817	1.27	7.817	37.84	13.817	2.29	19.82	1.30
1.833	1.27	7.833	38.19	13.833	2.29	19.83	1.30
1.850	1.29	7.850	158.18	13.850	2.23	19.85	1.29
1.867	1.29	7.867	158.18	13.867	2.23	19.87	1.29
1.883	1.29	7.883	158.18	13.883	2.23	19.88	1.29
1.900	1.29	7.900	158.18	13.900	2.23	19.90	1.29
1.917	1.29	7.917	158.18	13.917	2.23	19.92	1.29
1.933	1.29	7.933	158.18	13.933	2.23	19.93	1.29
1.950	1.29	7.950	158.18	13.950	2.23	19.95	1.29
1.967	1.29	7.967	158.18	13.967	2.23	19.97	1.29
1.983	1.29	7.983	158.18	13.983	2.23	19.98	1.29
2.000	1.29	8.000	157.86	14.000	2.23	20.00	1.29
2.017	1.32	8.017	49.42	14.017	2.19	20.02	1.27
2.033	1.32	8.033	49.42	14.033	2.19	20.03	1.27
2.050	1.32	8.050	49.42	14.050	2.19	20.05	1.27
2.067	1.32	8.067	49.42	14.067	2.19	20.07	1.27
2.083	1.32	8.083	49.42	14.083	2.19	20.08	1.27
2.100	1.32	8.100	49.42	14.100	2.19	20.10	1.27
2.117	1.32	8.117	49.42	14.117	2.19	20.12	1.27
2.133	1.32	8.133	49.42	14.133	2.19	20.13	1.27
2.150	1.32	8.150	49.42	14.150	2.19	20.15	1.27
2.167	1.32	8.167	49.35	14.167	2.19	20.17	1.27
2.183	1.35	8.183	26.31	14.183	2.14	20.18	1.26
2.200	1.35	8.200	26.31	14.200	2.14	20.20	1.26
2.217	1.35	8.217	26.31	14.217	2.14	20.22	1.26
2.233	1.35	8.233	26.31	14.233	2.14	20.23	1.26
2.250	1.35	8.250	26.31	14.250	2.14	20.25	1.26
2.267	1.35	8.267	26.31	14.267	2.14	20.27	1.26
2.283	1.35	8.283	26.31	14.283	2.14	20.28	1.26
2.300	1.35	8.300	26.31	14.300	2.14	20.30	1.26
2.317	1.35	8.317	26.31	14.317	2.14	20.32	1.26
2.333	1.35	8.333	26.29	14.333	2.14	20.33	1.26
2.350	1.39	8.350	18.21	14.350	2.10	20.35	1.25
2.367	1.39	8.367	18.21	14.367	2.10	20.37	1.25
2.383	1.39	8.383	18.21	14.383	2.10	20.38	1.25
2.400	1.39	8.400	18.21	14.400	2.10	20.40	1.25
2.417	1.39	8.417	18.21	14.417	2.10	20.42	1.25
2.433	1.39	8.433	18.21	14.433	2.10	20.43	1.25
2.450	1.39	8.450	18.21	14.450	2.10	20.45	1.25
2.467	1.39	8.467	18.21	14.467	2.10	20.47	1.25
2.483	1.39	8.483	18.21	14.483	2.10	20.48	1.25
2.500	1.39	8.500	18.20	14.500	2.10	20.50	1.25
2.517	1.42	8.517	14.08	14.517	2.05	20.52	1.23
2.533	1.42	8.533	14.08	14.533	2.05	20.53	1.23
2.550	1.42	8.550	14.08	14.550	2.05	20.55	1.23
2.567	1.42	8.567	14.08	14.567	2.05	20.57	1.23
2.583	1.42	8.583	14.08	14.583	2.05	20.58	1.23
2.600	1.42	8.600	14.08	14.600	2.05	20.60	1.23
2.617	1.42	8.617	14.08	14.617	2.05	20.62	1.23
2.633	1.42	8.633	14.08	14.633	2.05	20.63	1.23
2.650	1.42	8.650	14.08	14.650	2.05	20.65	1.23
2.667	1.42	8.667	14.07	14.667	2.05	20.67	1.23
2.683	1.46	8.683	11.56	14.683	2.01	20.68	1.22
2.700	1.46	8.700	11.56	14.700	2.01	20.70	1.22
2.717	1.46	8.717	11.56	14.717	2.01	20.72	1.22
2.733	1.46	8.733	11.56	14.733	2.01	20.73	1.22
2.750	1.46	8.750	11.56	14.750	2.01	20.75	1.22
2.767	1.46	8.767	11.56	14.767	2.01	20.77	1.22
2.783	1.46	8.783	11.56	14.783	2.01	20.78	1.22
2.800	1.46	8.800	11.56	14.800	2.01	20.80	1.22
2.817	1.46	8.817	11.56	14.817	2.01	20.82	1.22
2.833	1.46	8.833	11.56	14.833	2.01	20.83	1.22
2.850	1.50	8.850	9.86	14.850	1.98	20.85	1.21
2.867	1.50	8.867	9.86	14.867	1.98	20.87	1.21
2.883	1.50	8.883	9.86	14.883	1.98	20.88	1.21
2.900	1.50	8.900	9.86	14.900	1.98	20.90	1.21
2.917	1.50	8.917	9.86	14.917	1.98	20.92	1.21
2.933	1.50	8.933	9.86	14.933	1.98	20.93	1.21
2.950	1.50	8.950	9.86	14.950	1.98	20.95	1.21
2.967	1.50	8.967	9.86	14.967	1.98	20.97	1.21
2.983	1.50	8.983	9.86	14.983	1.98	20.98	1.21
3.000	1.50	9.000	9.86	15.000	1.98	21.00	1.21
3.017	1.54	9.017	8.63	15.017	1.94	21.02	1.20
3.033	1.54	9.033	8.63	15.033	1.94	21.03	1.20
3.050	1.54	9.050	8.63	15.050	1.94	21.05	1.20
3.067	1.54	9.067	8.63	15.067	1.94	21.07	1.20
3.083	1.54	9.083	8.63	15.083	1.94	21.08	1.20
3.100	1.54	9.100	8.63	15.100	1.94	21.10	1.20
3.117	1.54	9.117	8.63	15.117	1.94	21.12	1.20
3.133	1.54	9.133	8.63	15.133	1.94	21.13	1.20
3.150	1.54	9.150	8.63	15.150	1.94	21.15	1.20
3.167	1.54	9.167	8.63	15.167	1.94	21.17	1.20
3.183	1.58	9.183	7.70	15.183	1.90	21.18	1.19
3.200	1.58	9.200	7.70	15.200	1.90	21.20	1.19
3.217	1.58	9.217	7.70	15.217	1.90	21.22	1.19
3.233	1.58	9.233	7.70	15.233	1.90	21.23	1.19
3.250	1.58	9.250	7.70	15.250	1.90	21.25	1.19
3.267	1.58	9.267	7.70	15.267	1.90	21.27	1.19
3.283	1.58	9.283	7.70	15.283	1.90	21.28	1.19
3.300	1.58	9.300	7.70	15.300	1.90	21.30	1.19
3.317	1.58	9.317	7.70	15.317	1.90	21.32	1.19
3.333	1.58	9.333	7.70	15.333	1.90	21.33	1.19
3.350	1.63	9.350	6.96	15.350	1.87	21.35	1.17
3.367	1.63	9.367	6.96	15.367	1.87	21.37	1.17
3.383	1.63	9.383	6.96	15.383	1.87	21.38	1.17
3.400	1.63	9.400	6.96	15.400	1.87	21.40	1.17
3.417	1.63	9.417	6.96	15.417	1.87	21.42	1.17
3.433	1.63	9.433	6.96	15.433	1.87	21.43	1.17
3.450	1.63	9.450	6.96	15.450	1.87	21.45	1.17
3.467	1.63	9.467	6.96	15.467	1.87	21.47	1.17
3.483	1.63	9.483	6.96	15.483	1.87	21.48	1.17
3.500	1.63	9.500	6.96	15.500	1.87	21.50	1.17
3.517	1.68	9.517	6.37	15.517	1.84	21.52	1.16
3.533	1.68	9.533	6.37	15.533	1.84	21.53	1.16
3.550	1.68	9.550	6.37	15.550	1.84	21.55	1.16
3.567	1.68	9.567	6.37	15.567	1.84	21.57	1.16
3.583	1.68	9.583	6.37	15.583	1.84	21.58	1.16
3.600	1.68	9.600	6.37	15.600	1.84	21.60	1.16
3.617	1.68	9.617	6.37	15.617	1.84	21.62	1.16
3.633	1.68	9.633	6.37	15.633	1.84	21.63	1.16
3.650	1.68	9.650	6.37	15.650	1.84	21.65	1.16
3.667	1.68	9.667	6.37	15.667	1.84	21.67	1.16
3.683	1.73	9.683	5.88	15.683	1.81	21.68	1.15
3.700	1.73	9.700	5.88	15.700	1.81	21.70	1.15
3.717	1.73	9.717	5.88	15.717	1.81	21.72	1.15
3.733	1.73	9.733	5.88	15.733	1.81	21.73	1.15
3.750	1.73	9.750	5.88	15.750	1.81	21.75	1.15
3.767	1.73	9.767	5.88	15.767	1.81	21.77	1.15
3.783	1.73	9.783	5.88	15.783	1.81	21.78	1.15
3.800	1.73	9.800	5.88	15.800	1.81	21.80	1.15
3.817	1.73	9.817	5.88	15.817	1.81	21.82	1.15
3.833	1.73	9.833	5.88	15.833	1.81	21.83	1.15
3.850	1.79	9.850	5.47	15.850	1.78	21.85	1.14
3.867	1.79	9.867	5.47	15.867	1.78	21.87	1.14
3.883	1.79	9.883	5.47	15.883	1.78	21.88	1.14
3.900	1.79	9.900	5.47	15.900	1.78	21.90	1.14
3.917	1.79	9.917	5.47	15.917	1.78	21.92	1.14
3.933	1.79	9.933	5.47	15.933	1.78	21.93	1.14
3.950	1.79	9.950	5.47	15.950	1.78	21.95	1.14
3.967	1.79	9.967	5.47	15.967	1.78	21.97	1.14
3.983	1.79	9.983	5.47	15.983	1.78	21.98	1.14
4.000	1.79	10.000	5.47	16.000	1.78	22.00	1.14
4.017	1.85	10.017	5.12	16.017	1.75	22.02	1.13
4.033	1.85	10.033	5.12	16.033	1.75	22.03	1.13
4.050	1.85	10.050	5.12	16.050	1.75	22.05	1.13
4.067	1.85	10.067	5.12	16.067	1.75	22.07	1.13
4.083	1.85	10.083	5.12	16.083	1.75	22.08	1.13
4.100	1.85	10.100	5.12	16.100	1.75	22.10	1.13
4.117	1.85	10.117	5.12	16.117	1.75	22.12	1.13
4.133	1.85	10.133	5.12	16.133	1.75	22.13	1.13
4.150	1.85	10.150	5.12	16.150	1.75	22.15	1.13
4.167	1.85	10.167	5.12	16.167	1.75	22.17	1.13
4.183	1.92	10.183	4.81	16.183	1.72	22.18	1.12
4.200	1.92	10.200	4.81	16.200	1.72	22.20	1.12
4.217	1.92	10.217	4.81	16.217	1.72	22.22	1.12
4.233	1.92	10.233	4.81	16.233	1.72	22.23	1.12
4.250	1.92	10.250	4.81	16.250	1.72	22.25	1.12
4.267	1.92	10.267	4.81	16.267	1.72	22.27	1.12
4.283	1.92	10.283	4.81	16.283	1.72	22.28	1.12
4.300	1.92	10.300	4.81	16.300	1.72	22.30	1.12
4.317	1.92	10.317	4.81	16.317	1.72	22.32	1.12
4.333	1.92	10.333	4.81	16.333	1.72	22.33	1.12
4.350	1.99	10.350	4.55	16.350	1.69	22.35	1.11
4.367	1.99	10.367	4.55	16.367	1.69	22.37	1.11
4.383	1.99	10.383	4.55	16.383	1.69	22.38	1.11
4.400	1.99	10.400	4.55	16.400	1.69	22.40	1.11
4.417	1.99	10.417	4.55	16.417	1.69	22.42	1.11
4.433	1.99	10.433	4.55	16.433	1.69	22.43	1.11
4.450	1.99	10.450	4.55	16.450	1.69	22.45	1.11
4.467	1.99	10.467	4.55	16.467	1.69	22.47	1.11
4.483	1.99	10.483	4.55	16.483	1.69	22.48	1.11
4.500	1.99	10.500	4.54	16.500	1.69	22.50	1.11
4.517	2.07	10.517	4.31	16.517	1.67	22.52	1.10
4.533	2.07	10.533	4.31	16.533	1.67	22.53	1.10
4.550	2.07	10.550	4.31	16.550	1.67	22.55	1.10
4.567	2.07	10.567	4.31	16.567	1.67	22.57	1.10
4.583	2.07	10.583	4.31	16.583	1.67	22.58	1.10
4.600	2.07	10.600	4.31	16.600	1.67	22.60	1.10
4.617	2.07	10.617	4.31	16.617	1.67	22.62	1.10
4.633	2.07	10.633	4.31	16.633	1.67	22.63	1.10

4.650	2.07	10.650	4.31	16.650	1.67	22.65	1.10
4.667	2.07	10.667	4.31	16.667	1.67	22.67	1.10
4.683	2.16	10.683	4.10	16.683	1.64	22.68	1.09
4.700	2.16	10.700	4.10	16.700	1.64	22.70	1.09
4.717	2.16	10.717	4.10	16.717	1.64	22.72	1.09
4.733	2.16	10.733	4.10	16.733	1.64	22.73	1.09
4.750	2.16	10.750	4.10	16.750	1.64	22.75	1.09
4.767	2.16	10.767	4.10	16.767	1.64	22.77	1.09
4.783	2.16	10.783	4.10	16.783	1.64	22.78	1.09
4.800	2.16	10.800	4.10	16.800	1.64	22.80	1.09
4.817	2.16	10.817	4.10	16.817	1.64	22.82	1.09
4.833	2.16	10.833	4.10	16.833	1.64	22.83	1.09
4.850	2.26	10.850	3.91	16.850	1.62	22.85	1.08
4.867	2.26	10.867	3.91	16.867	1.62	22.87	1.08
4.883	2.26	10.883	3.91	16.883	1.62	22.88	1.08
4.900	2.26	10.900	3.91	16.900	1.62	22.90	1.08
4.917	2.26	10.917	3.91	16.917	1.62	22.92	1.08
4.933	2.26	10.933	3.91	16.933	1.62	22.93	1.08
4.950	2.26	10.950	3.91	16.950	1.62	22.95	1.08
4.967	2.26	10.967	3.91	16.967	1.62	22.97	1.08
4.983	2.26	10.983	3.91	16.983	1.62	22.98	1.08
5.000	2.26	11.000	3.91	17.000	1.62	23.00	1.08
5.017	2.36	11.017	3.74	17.017	1.59	23.02	1.07
5.033	2.36	11.033	3.74	17.033	1.59	23.03	1.07
5.050	2.36	11.050	3.74	17.050	1.59	23.05	1.07
5.067	2.36	11.067	3.74	17.067	1.59	23.07	1.07
5.083	2.36	11.083	3.74	17.083	1.59	23.08	1.07
5.100	2.36	11.100	3.74	17.100	1.59	23.10	1.07
5.117	2.36	11.117	3.74	17.117	1.59	23.12	1.07
5.133	2.36	11.133	3.74	17.133	1.59	23.13	1.07
5.150	2.36	11.150	3.74	17.150	1.59	23.15	1.07
5.167	2.36	11.167	3.74	17.167	1.59	23.17	1.07
5.183	2.48	11.183	3.59	17.183	1.57	23.18	1.06
5.200	2.48	11.200	3.59	17.200	1.57	23.20	1.06
5.217	2.48	11.217	3.59	17.217	1.57	23.22	1.06
5.233	2.48	11.233	3.59	17.233	1.57	23.23	1.06
5.250	2.48	11.250	3.59	17.250	1.57	23.25	1.06
5.267	2.48	11.267	3.59	17.267	1.57	23.27	1.06
5.283	2.48	11.283	3.59	17.283	1.57	23.28	1.06
5.300	2.48	11.300	3.59	17.300	1.57	23.30	1.06
5.317	2.48	11.317	3.59	17.317	1.57	23.32	1.06
5.333	2.48	11.333	3.59	17.333	1.57	23.33	1.06
5.350	2.62	11.350	3.45	17.350	1.55	23.35	1.05
5.367	2.62	11.367	3.45	17.367	1.55	23.37	1.05
5.383	2.62	11.383	3.45	17.383	1.55	23.38	1.05
5.400	2.62	11.400	3.45	17.400	1.55	23.40	1.05
5.417	2.62	11.417	3.45	17.417	1.55	23.42	1.05
5.433	2.62	11.433	3.45	17.433	1.55	23.43	1.05
5.450	2.62	11.450	3.45	17.450	1.55	23.45	1.05
5.467	2.62	11.467	3.45	17.467	1.55	23.47	1.05
5.483	2.62	11.483	3.45	17.483	1.55	23.48	1.05
5.500	2.62	11.500	3.45	17.500	1.55	23.50	1.05
5.517	2.77	11.517	3.32	17.517	1.53	23.52	1.04
5.533	2.77	11.533	3.32	17.533	1.53	23.53	1.04
5.550	2.77	11.550	3.32	17.550	1.53	23.55	1.04
5.567	2.77	11.567	3.32	17.567	1.53	23.57	1.04
5.583	2.77	11.583	3.32	17.583	1.53	23.58	1.04
5.600	2.77	11.600	3.32	17.600	1.53	23.60	1.04
5.617	2.77	11.617	3.32	17.617	1.53	23.62	1.04
5.633	2.77	11.633	3.32	17.633	1.53	23.63	1.04
5.650	2.77	11.650	3.32	17.650	1.53	23.65	1.04
5.667	2.77	11.667	3.32	17.667	1.53	23.67	1.04
5.683	2.95	11.683	3.20	17.683	1.51	23.68	1.04
5.700	2.95	11.700	3.20	17.700	1.51	23.70	1.04
5.717	2.95	11.717	3.20	17.717	1.51	23.72	1.04
5.733	2.95	11.733	3.20	17.733	1.51	23.73	1.04
5.750	2.95	11.750	3.20	17.750	1.51	23.75	1.04
5.767	2.95	11.767	3.20	17.767	1.51	23.77	1.04
5.783	2.95	11.783	3.20	17.783	1.51	23.78	1.04
5.800	2.95	11.800	3.20	17.800	1.51	23.80	1.04
5.817	2.95	11.817	3.20	17.817	1.51	23.82	1.04
5.833	2.95	11.833	3.20	17.833	1.51	23.83	1.04
5.850	3.15	11.850	3.10	17.850	1.49	23.85	1.03
5.867	3.15	11.867	3.10	17.867	1.49	23.87	1.03
5.883	3.15	11.883	3.10	17.883	1.49	23.88	1.03
5.900	3.15	11.900	3.10	17.900	1.49	23.90	1.03
5.917	3.15	11.917	3.10	17.917	1.49	23.92	1.03
5.933	3.15	11.933	3.10	17.933	1.49	23.93	1.03
5.950	3.15	11.950	3.10	17.950	1.49	23.95	1.03
5.967	3.15	11.967	3.10	17.967	1.49	23.97	1.03
5.983	3.15	11.983	3.10	17.983	1.49	23.98	1.03
6.000	3.15	12.000	3.10	18.000	1.49	24.00	1.03

			TOTALS
Max.Eff.Inten.(mm/hr)=	158.18	108.10	
over (min)	5.00	7.00	
Storage Coeff. (min)=	4.29 (ii)	6.73 (ii)	
Unit Hyd. Tpeak (min)=	5.00	7.00	
Unit Hyd. peak (cms)=	0.25	0.17	
PEAK FLOW (cms)=	5.36	0.35	5.688 (iii)
TIME TO PEAK (hrs)=	8.02	8.05	8.02
RUNOFF VOLUME (mm)=	109.00	73.58	105.47
TOTAL RAINFALL (mm)=	110.01	110.01	110.01
RUNOFF COEFFICIENT =	0.99	0.67	0.96

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 85.0 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			
STANDHYD (0013)	Area (ha)=	2.56	
ID= 1 DT= 1.0 min	Total Imp(%)=	99.00	Dir. Conn.(%)= 99.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	2.53	0.03
Dep. Storage	(mm)=	1.00	5.00
Average Slope	(%)=	1.00	2.00
Length	(m)=	130.64	40.00
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 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
0.017	1.05	6.017	3.38	12.017	3.00	18.02	1.47
0.033	1.05	6.033	3.38	12.033	3.00	18.03	1.47
0.050	1.05	6.050	3.38	12.050	3.00	18.05	1.47
0.067	1.05	6.067	3.38	12.067	3.00	18.07	1.47
0.083	1.05	6.083	3.38	12.083	3.00	18.08	1.47
0.100	1.05	6.100	3.38	12.100	3.00	18.10	1.47
0.117	1.05	6.117	3.38	12.117	3.00	18.12	1.47
0.133	1.05	6.133	3.38	12.133	3.00	18.13	1.47
0.150	1.05	6.150	3.38	12.150	3.00	18.15	1.47
0.167	1.05	6.167	3.38	12.167	3.00	18.17	1.47
0.183	1.07	6.183	3.66	12.183	2.90	18.18	1.45
0.200	1.07	6.200	3.66	12.200	2.90	18.20	1.45
0.217	1.07	6.217	3.66	12.217	2.90	18.22	1.45
0.233	1.07	6.233	3.66	12.233	2.90	18.23	1.45
0.250	1.07	6.250	3.66	12.250	2.90	18.25	1.45
0.267	1.07	6.267	3.66	12.267	2.90	18.27	1.45
0.283	1.07	6.283	3.66	12.283	2.90	18.28	1.45
0.300	1.07	6.300	3.66	12.300	2.90	18.30	1.45
0.317	1.07	6.317	3.66	12.317	2.90	18.32	1.45
0.333	1.07	6.333	3.66	12.333	2.90	18.33	1.45
0.350	1.08	6.350	4.00	12.350	2.82	18.35	1.43
0.367	1.08	6.367	4.00	12.367	2.82	18.37	1.43
0.383	1.08	6.383	4.00	12.383	2.82	18.38	1.43
0.400	1.08	6.400	4.00	12.400	2.82	18.40	1.43
0.417	1.08	6.417	4.00	12.417	2.82	18.42	1.43
0.433	1.08	6.433	4.00	12.433	2.82	18.43	1.43
0.450	1.08	6.450	4.00	12.450	2.82	18.45	1.43
0.467	1.08	6.467	4.00	12.467	2.82	18.47	1.43
0.483	1.08	6.483	4.00	12.483	2.82	18.48	1.43
0.500	1.08	6.500	4.00	12.500	2.82	18.50	1.43
0.517	1.10	6.517	4.42	12.517	2.73	18.52	1.41
0.533	1.10	6.533	4.42	12.533	2.73	18.53	1.41
0.550	1.10	6.550	4.42	12.550	2.73	18.55	1.41
0.567	1.10	6.567	4.42	12.567	2.73	18.57	1.41
0.583	1.10	6.583	4.42	12.583	2.73	18.58	1.41
0.600	1.10	6.600	4.42	12.600	2.73	18.60	1.41
0.617	1.10	6.617	4.42	12.617	2.73	18.62	1.41
0.633	1.10	6.633	4.42	12.633	2.73	18.63	1.41
0.650	1.10	6.650	4.42	12.650	2.73	18.65	1.41
0.667	1.10	6.667	4.42	12.667	2.73	18.67	1.41
0.683	1.12	6.683	4.96	12.683	2.66	18.68	1.40
0.700	1.12	6.700	4.96	12.700	2.66	18.70	1.40
0.717	1.12	6.717	4.96	12.717	2.66	18.72	1.40
0.733	1.12	6.733	4.96	12.733	2.66	18.73	1.40
0.750	1.12	6.750	4.96	12.750	2.66	18.75	1.40
0.767	1.12	6.767	4.96	12.767	2.66	18.77	1.40
0.783	1.12	6.783	4.96	12.783	2.66	18.78	1.40
0.800	1.12	6.800	4.96	12.800	2.66	18.80	1.40
0.817	1.12	6.817	4.96	12.817	2.66	18.82	1.40
0.833	1.12	6.833	4.96	12.833	2.66	18.83	1.40
0.850	1.14	6.850	5.67	12.850	2.59	18.85	1.38
0.867	1.14	6.867	5.67	12.867	2.59	18.87	1.38
0.883	1.14	6.883	5.67	12.883	2.59	18.88	1.38
0.900	1.14	6.900	5.67	12.900	2.59	18.90	1.38
0.917	1.14	6.917	5.67	12.917	2.59	18.92	1.38
0.933	1.14	6.933	5.67	12.933	2.59	18.93	1.38
0.950	1.14	6.950	5.67	12.950	2.59	18.95	1.38
0.967	1.14	6.967	5.67	12.967	2.59	18.97	1.38
0.983	1.14	6.983	5.67	12.983	2.59	18.98	1.38
1.000	1.14	7.000	5.67	13.000	2.59	19.00	1.38
1.017	1.17	7.017	6.66	13.017	2.52	19.02	1.36
1.033	1.17	7.033	6.66	13.033	2.52	19.03	1.36
1.050	1.17	7.050	6.66	13.050	2.52	19.05	1.36
1.067	1.17	7.067	6.66	13.067	2.52	19.07	1.36
1.083	1.17	7.083	6.66	13.083	2.52	19.08	1.36
1.100	1.17	7.100	6.66	13.100	2.52	19.10	1.36
1.117	1.17	7.117	6.66	13.117	2.52	19.12	1.36
1.133	1.17	7.133	6.66	13.133	2.52	19.13	1.36
1.150	1.17	7.150	6.66	13.150	2.52	19.15	1.36
1.167	1.17	7.167	6.66	13.167	2.52	19.17	1.36
1.183	1.19	7.183	8.15	13.183	2.46	19.18	1.35
1.200	1.19	7.200	8.15	13.200	2.46	19.20	1.35
1.217	1.19	7.217	8.15	13.217	2.46	19.22	1.35
1.233	1.19	7.233	8.15	13.233	2.46	19.23	1.35
1.250	1.19	7.250	8.15	13.250	2.46	19.25	1.35
1.267	1.19	7.267	8.15	13.267	2.46	19.27	1.35
1.283	1.19	7.283	8.15	13.283	2.46	19.28	1.35
1.300	1.19	7.300	8.15	13.300	2.46	19.30	1.35
1.317	1.19	7.317	8.15	13.317	2.46	19.32	1.35

1.333	1.19	7.333	8.16	13.333	2.46	19.33	1.35
1.350	1.21	7.350	10.70	13.350	2.40	19.35	1.33
1.367	1.21	7.367	10.70	13.367	2.40	19.37	1.33
1.383	1.21	7.383	10.70	13.383	2.40	19.38	1.33
1.400	1.21	7.400	10.70	13.400	2.40	19.40	1.33
1.417	1.21	7.417	10.70	13.417	2.40	19.42	1.33
1.433	1.21	7.433	10.70	13.433	2.40	19.43	1.33
1.450	1.21	7.450	10.70	13.450	2.40	19.45	1.33
1.467	1.21	7.467	10.70	13.467	2.40	19.47	1.33
1.483	1.21	7.483	10.70	13.483	2.40	19.48	1.33
1.500	1.21	7.500	10.71	13.500	2.40	19.50	1.33
1.517	1.24	7.517	16.13	13.517	2.34	19.52	1.32
1.533	1.24	7.533	16.13	13.533	2.34	19.53	1.32
1.550	1.24	7.550	16.13	13.550	2.34	19.55	1.32
1.567	1.24	7.567	16.13	13.567	2.34	19.57	1.32
1.583	1.24	7.583	16.13	13.583	2.34	19.58	1.32
1.600	1.24	7.600	16.13	13.600	2.34	19.60	1.32
1.617	1.24	7.617	16.13	13.617	2.34	19.62	1.32
1.633	1.24	7.633	16.13	13.633	2.34	19.63	1.32
1.650	1.24	7.650	16.13	13.650	2.34	19.65	1.32
1.667	1.24	7.667	16.19	13.667	2.34	19.67	1.32
1.683	1.27	7.683	37.84	13.683	2.29	19.68	1.30
1.700	1.27	7.700	37.84	13.700	2.29	19.70	1.30
1.717	1.27	7.717	37.84	13.717	2.29	19.72	1.30
1.733	1.27	7.733	37.84	13.733	2.29	19.73	1.30
1.750	1.27	7.750	37.84	13.750	2.29	19.75	1.30
1.767	1.27	7.767	37.84	13.767	2.29	19.77	1.30
1.783	1.27	7.783	37.84	13.783	2.29	19.78	1.30
1.800	1.27	7.800	37.84	13.800	2.29	19.80	1.30
1.817	1.27	7.817	37.84	13.817	2.29	19.82	1.30
1.833	1.27	7.833	38.19	13.833	2.29	19.83	1.30
1.850	1.29	7.850	158.18	13.850	2.23	19.85	1.29
1.867	1.29	7.867	158.18	13.867	2.23	19.87	1.29
1.883	1.29	7.883	158.18	13.883	2.23	19.88	1.29
1.900	1.29	7.900	158.18	13.900	2.23	19.90	1.29
1.917	1.29	7.917	158.18	13.917	2.23	19.92	1.29
1.933	1.29	7.933	158.18	13.933	2.23	19.93	1.29
1.950	1.29	7.950	158.18	13.950	2.23	19.95	1.29
1.967	1.29	7.967	158.18	13.967	2.23	19.97	1.29
1.983	1.29	7.983	158.18	13.983	2.23	19.98	1.29
2.000	1.29	8.000	157.86	14.000	2.23	20.00	1.29
2.017	1.32	8.017	49.42	14.017	2.19	20.02	1.27
2.033	1.32	8.033	49.42	14.033	2.19	20.03	1.27
2.050	1.32	8.050	49.42	14.050	2.19	20.05	1.27
2.067	1.32	8.067	49.42	14.067	2.19	20.07	1.27
2.083	1.32	8.083	49.42	14.083	2.19	20.08	1.27
2.100	1.32	8.100	49.42	14.100	2.19	20.10	1.27
2.117	1.32	8.117	49.42	14.117	2.19	20.12	1.27
2.133	1.32	8.133	49.42	14.133	2.19	20.13	1.27
2.150	1.32	8.150	49.42	14.150	2.19	20.15	1.27
2.167	1.32	8.167	49.35	14.167	2.19	20.17	1.27
2.183	1.35	8.183	26.31	14.183	2.14	20.18	1.26
2.200	1.35	8.200	26.31	14.200	2.14	20.20	1.26
2.217	1.35	8.217	26.31	14.217	2.14	20.22	1.26
2.233	1.35	8.233	26.31	14.233	2.14	20.23	1.26
2.250	1.35	8.250	26.31	14.250	2.14	20.25	1.26
2.267	1.35	8.267	26.31	14.267	2.14	20.27	1.26
2.283	1.35	8.283	26.31	14.283	2.14	20.28	1.26
2.300	1.35	8.300	26.31	14.300	2.14	20.30	1.26
2.317	1.35	8.317	26.31	14.317	2.14	20.32	1.26
2.333	1.35	8.333	26.29	14.333	2.14	20.33	1.26
2.350	1.39	8.350	18.21	14.350	2.10	20.35	1.25
2.367	1.39	8.367	18.21	14.367	2.10	20.37	1.25
2.383	1.39	8.383	18.21	14.383	2.10	20.38	1.25
2.400	1.39	8.400	18.21	14.400	2.10	20.40	1.25
2.417	1.39	8.417	18.21	14.417	2.10	20.42	1.25
2.433	1.39	8.433	18.21	14.433	2.10	20.43	1.25
2.450	1.39	8.450	18.21	14.450	2.10	20.45	1.25
2.467	1.39	8.467	18.21	14.467	2.10	20.47	1.25
2.483	1.39	8.483	18.21	14.483	2.10	20.48	1.25
2.500	1.39	8.500	18.20	14.500	2.10	20.50	1.25
2.517	1.42	8.517	14.08	14.517	2.05	20.52	1.23
2.533	1.42	8.533	14.08	14.533	2.05	20.53	1.23
2.550	1.42	8.550	14.08	14.550	2.05	20.55	1.23
2.567	1.42	8.567	14.08	14.567	2.05	20.57	1.23
2.583	1.42	8.583	14.08	14.583	2.05	20.58	1.23
2.600	1.42	8.600	14.08	14.600	2.05	20.60	1.23
2.617	1.42	8.617	14.08	14.617	2.05	20.62	1.23
2.633	1.42	8.633	14.08	14.633	2.05	20.63	1.23
2.650	1.42	8.650	14.08	14.650	2.05	20.65	1.23
2.667	1.42	8.667	14.07	14.667	2.05	20.67	1.23
2.683	1.46	8.683	11.56	14.683	2.01	20.68	1.22
2.700	1.46	8.700	11.56	14.700	2.01	20.70	1.22
2.717	1.46	8.717	11.56	14.717	2.01	20.72	1.22
2.733	1.46	8.733	11.56	14.733	2.01	20.73	1.22
2.750	1.46	8.750	11.56	14.750	2.01	20.75	1.22
2.767	1.46	8.767	11.56	14.767	2.01	20.77	1.22
2.783	1.46	8.783	11.56	14.783	2.01	20.78	1.22
2.800	1.46	8.800	11.56	14.800	2.01	20.80	1.22
2.817	1.46	8.817	11.56	14.817	2.01	20.82	1.22
2.833	1.46	8.833	11.56	14.833	2.01	20.83	1.22
2.850	1.50	8.850	9.86	14.850	1.98	20.85	1.21
2.867	1.50	8.867	9.86	14.867	1.98	20.87	1.21
2.883	1.50	8.883	9.86	14.883	1.98	20.88	1.21
2.900	1.50	8.900	9.86	14.900	1.98	20.90	1.21
2.917	1.50	8.917	9.86	14.917	1.98	20.92	1.21
2.933	1.50	8.933	9.86	14.933	1.98	20.93	1.21
2.950	1.50	8.950	9.86	14.950	1.98	20.95	1.21
2.967	1.50	8.967	9.86	14.967	1.98	20.97	1.21
2.983	1.50	8.983	9.86	14.983	1.98	20.98	1.21
3.000	1.50	9.000	9.86	15.000	1.98	21.00	1.21
3.017	1.54	9.017	8.63	15.017	1.94	21.02	1.20
3.033	1.54	9.033	8.63	15.033	1.94	21.03	1.20
3.050	1.54	9.050	8.63	15.050	1.94	21.05	1.20
3.067	1.54	9.067	8.63	15.067	1.94	21.07	1.20
3.083	1.54	9.083	8.63	15.083	1.94	21.08	1.20
3.100	1.54	9.100	8.63	15.100	1.94	21.10	1.20
3.117	1.54	9.117	8.63	15.117	1.94	21.12	1.20
3.133	1.54	9.133	8.63	15.133	1.94	21.13	1.20
3.150	1.54	9.150	8.63	15.150	1.94	21.15	1.20
3.167	1.54	9.167	8.63	15.167	1.94	21.17	1.20
3.183	1.58	9.183	7.70	15.183	1.90	21.18	1.19
3.200	1.58	9.200	7.70	15.200	1.90	21.20	1.19
3.217	1.58	9.217	7.70	15.217	1.90	21.22	1.19
3.233	1.58	9.233	7.70	15.233	1.90	21.23	1.19
3.250	1.58	9.250	7.70	15.250	1.90	21.25	1.19
3.267	1.58	9.267	7.70	15.267	1.90	21.27	1.19
3.283	1.58	9.283	7.70	15.283	1.90	21.28	1.19
3.300	1.58	9.300	7.70	15.300	1.90	21.30	1.19
3.317	1.58	9.317	7.70	15.317	1.90	21.32	1.19
3.333	1.58	9.333	7.70	15.333	1.90	21.33	1.19
3.350	1.63	9.350	6.96	15.350	1.87	21.35	1.17
3.367	1.63	9.367	6.96	15.367	1.87	21.37	1.17
3.383	1.63	9.383	6.96	15.383	1.87	21.38	1.17
3.400	1.63	9.400	6.96	15.400	1.87	21.40	1.17
3.417	1.63	9.417	6.96	15.417	1.87	21.42	1.17
3.433	1.63	9.433	6.96	15.433	1.87	21.43	1.17
3.450	1.63	9.450	6.96	15.450	1.87	21.45	1.17
3.467	1.63	9.467	6.96	15.467	1.87	21.47	1.17
3.483	1.63	9.483	6.96	15.483	1.87	21.48	1.17
3.500	1.63	9.500	6.96	15.500	1.87	21.50	1.17
3.517	1.68	9.517	6.37	15.517	1.84	21.52	1.16
3.533	1.68	9.533	6.37	15.533	1.84	21.53	1.16
3.550	1.68	9.550	6.37	15.550	1.84	21.55	1.16
3.567	1.68	9.567	6.37	15.567	1.84	21.57	1.16
3.583	1.68	9.583	6.37	15.583	1.84	21.58	1.16
3.600	1.68	9.600	6.37	15.600	1.84	21.60	1.16
3.617	1.68	9.617	6.37	15.617	1.84	21.62	1.16
3.633	1.68	9.633	6.37	15.633	1.84	21.63	1.16
3.650	1.68	9.650	6.37	15.650	1.84	21.65	1.16
3.667	1.68	9.667	6.37	15.667	1.84	21.67	1.16
3.683	1.73	9.683	5.88	15.683	1.81	21.68	1.15
3.700	1.73	9.700	5.88	15.700	1.81	21.70	1.15
3.717	1.73	9.717	5.88	15.717	1.81	21.72	1.15
3.733	1.73	9.733	5.88	15.733	1.81	21.73	1.15
3.750	1.73	9.750	5.88	15.750	1.81	21.75	1.15
3.767	1.73	9.767	5.88	15.767	1.81	21.77	1.15
3.783	1.73	9.783	5.88	15.783	1.81	21.78	1.15
3.800	1.73	9.800	5.88	15.800	1.81	21.80	1.15
3.817	1.73	9.817	5.88	15.817	1.81	21.82	1.15
3.833	1.73	9.833	5.88	15.833	1.81	21.83	1.15
3.850	1.79	9.850	5.47	15.850	1.78	21.85	1.14
3.867	1.79	9.867	5.47	15.867	1.78	21.87	1.14
3.883	1.79	9.883	5.47	15.883	1.78	21.88	1.14
3.900	1.79	9.900	5.47	15.900	1.78	21.90	1.14
3.917	1.79	9.917	5.47	15.917	1.78	21.92	1.14
3.933	1.79	9.933	5.47	15.933	1.78	21.93	1.14
3.950	1.79	9.950	5.47	15.950	1.78	21.95	1.14
3.967	1.79	9.967	5.47	15.967	1.78	21.97	1.14
3.983	1.79	9.983	5.47	15.983	1.78	21.98	1.14
4.000	1.79	10.000	5.47	16.000	1.78	22.00	1.14
4.017	1.85	10.017	5.12	16.017	1.75	22.02	1.13
4.033	1.85	10.033	5.12	16.033	1.75	22.03	1.13
4.050	1.85	10.050	5.12	16.050	1.75	22.05	1.13
4.067	1.85	10.067	5.12	16.067	1.75	22.07	1.13
4.083	1.85	10.083	5.12	16.083	1.75	22.08	1.13
4.100	1.85	10.100	5.12	16.100	1.75	22.10	1.13
4.117	1.85	10.117	5.12	16.117	1.75	22.12	1.13
4.133	1.85	10.133	5.12	16.133	1.75	22.13	1.13
4.150	1.85	10.150	5.12	16.150	1.75	22.15	1.13
4.167	1.85	10.167	5.12	16.167	1.75	22.17	1.13
4.183	1.92	10.183	4.81	16.183	1.72	22.18	1.12
4.200	1.92	10.200	4.81	16.200	1.72	22.20	1.12
4.217	1.92	10.217	4.81	16.217	1.72	22.22	1.12
4.233	1.92	10.233	4.81	16.233	1.72	22.23	1.12
4.250	1.92	10.250	4.81	16.250	1.72	22.25	1.12
4.267	1.92	10.267	4.81	16.267	1.72	22.27	1.12
4.283	1.92	10.283	4.81	16.283	1.72	22.28	1.12
4.300	1.92	10.300	4.81	16.300	1.72	22.30	1.12
4.317	1.92	10.317	4.81	16.317	1.72	22.32	1.12
4.333	1.92	10.333	4.81	16.333	1.72	22.33	1.12
4.350	1.99	10.350	4.55	16.350	1.69	22.35	1.11
4.367	1.99	10.367	4.55	16.367	1.69	22.37	1.11
4.383	1.99	10.383	4.55	16.383	1.69	22.38	1.11
4.400	1.99	10.400	4.55	16.400	1.69	22.40	1.11
4.417	1.99	10.417	4.55	16.417	1.69	22.42	1.11
4.433	1.99	10.433	4.55	16.433	1.69	22.43	1.11
4.450	1.99	10.450	4.55	16.450	1.69	22.45	1.11
4.467	1.99	10.467	4.55	16.467	1.69	22.47	1.11
4.483	1.99	10.483	4.55	16.483	1.69	22.48	1.11
4.500	1.99	10.500	4.54	16.500	1.69	22.50	1.11
4.517	2.07	10.517	4.31	16.517	1.67	22.52	1.10
4.533	2.07	10.533	4.31	16.533	1.67	22.53	1.10
4.550	2.07	10.550	4.31	16.550	1.67	22.55	1.10
4.567	2.07	10.567	4.31	16.567	1.67	22.57	1.10
4.583	2.07	10.583	4.31	16.583	1.67	22.58	1.10
4.600	2.07	10.600	4.31	16.600	1.67	22.60	1.10
4.617	2.07	10.617	4.31	16.617	1.67	22.62	1.10
4.633	2.07	10.633	4.31	16.633	1.67	22.63	1.10
4.650	2.07	10.650	4.31	16.650	1.67	22.65	1.10

4.667	2.07	10.667	4.31	16.667	1.67	22.67	1.10
4.683	2.16	10.683	4.10	16.683	1.64	22.68	1.09
4.700	2.16	10.700	4.10	16.700	1.64	22.70	1.09
4.717	2.16	10.717	4.10	16.717	1.64	22.72	1.09
4.733	2.16	10.733	4.10	16.733	1.64	22.73	1.09
4.750	2.16	10.750	4.10	16.750	1.64	22.75	1.09
4.767	2.16	10.767	4.10	16.767	1.64	22.77	1.09
4.783	2.16	10.783	4.10	16.783	1.64	22.78	1.09
4.800	2.16	10.800	4.10	16.800	1.64	22.80	1.09
4.817	2.16	10.817	4.10	16.817	1.64	22.82	1.09
4.833	2.16	10.833	4.10	16.833	1.64	22.83	1.09
4.850	2.26	10.850	3.91	16.850	1.62	22.85	1.08
4.867	2.26	10.867	3.91	16.867	1.62	22.87	1.08
4.883	2.26	10.883	3.91	16.883	1.62	22.88	1.08
4.900	2.26	10.900	3.91	16.900	1.62	22.90	1.08
4.917	2.26	10.917	3.91	16.917	1.62	22.92	1.08
4.933	2.26	10.933	3.91	16.933	1.62	22.93	1.08
4.950	2.26	10.950	3.91	16.950	1.62	22.95	1.08
4.967	2.26	10.967	3.91	16.967	1.62	22.97	1.08
4.983	2.26	10.983	3.91	16.983	1.62	22.98	1.08
5.000	2.26	11.000	3.91	17.000	1.62	23.00	1.08
5.017	2.36	11.017	3.74	17.017	1.59	23.02	1.07
5.033	2.36	11.033	3.74	17.033	1.59	23.03	1.07
5.050	2.36	11.050	3.74	17.050	1.59	23.05	1.07
5.067	2.36	11.067	3.74	17.067	1.59	23.07	1.07
5.083	2.36	11.083	3.74	17.083	1.59	23.08	1.07
5.100	2.36	11.100	3.74	17.100	1.59	23.10	1.07
5.117	2.36	11.117	3.74	17.117	1.59	23.12	1.07
5.133	2.36	11.133	3.74	17.133	1.59	23.13	1.07
5.150	2.36	11.150	3.74	17.150	1.59	23.15	1.07
5.167	2.36	11.167	3.74	17.167	1.59	23.17	1.07
5.183	2.48	11.183	3.59	17.183	1.57	23.18	1.06
5.200	2.48	11.200	3.59	17.200	1.57	23.20	1.06
5.217	2.48	11.217	3.59	17.217	1.57	23.22	1.06
5.233	2.48	11.233	3.59	17.233	1.57	23.23	1.06
5.250	2.48	11.250	3.59	17.250	1.57	23.25	1.06
5.267	2.48	11.267	3.59	17.267	1.57	23.27	1.06
5.283	2.48	11.283	3.59	17.283	1.57	23.28	1.06
5.300	2.48	11.300	3.59	17.300	1.57	23.30	1.06
5.317	2.48	11.317	3.59	17.317	1.57	23.32	1.06
5.333	2.48	11.333	3.59	17.333	1.57	23.33	1.06
5.350	2.62	11.350	3.45	17.350	1.55	23.35	1.05
5.367	2.62	11.367	3.45	17.367	1.55	23.37	1.05
5.383	2.62	11.383	3.45	17.383	1.55	23.38	1.05
5.400	2.62	11.400	3.45	17.400	1.55	23.40	1.05
5.417	2.62	11.417	3.45	17.417	1.55	23.42	1.05
5.433	2.62	11.433	3.45	17.433	1.55	23.43	1.05
5.450	2.62	11.450	3.45	17.450	1.55	23.45	1.05
5.467	2.62	11.467	3.45	17.467	1.55	23.47	1.05
5.483	2.62	11.483	3.45	17.483	1.55	23.48	1.05

5.500	2.62	11.500	3.45	17.500	1.55	23.50	1.05
5.517	2.77	11.517	3.32	17.517	1.53	23.52	1.04
5.533	2.77	11.533	3.32	17.533	1.53	23.53	1.04
5.550	2.77	11.550	3.32	17.550	1.53	23.55	1.04
5.567	2.77	11.567	3.32	17.567	1.53	23.57	1.04
5.583	2.77	11.583	3.32	17.583	1.53	23.58	1.04
5.600	2.77	11.600	3.32	17.600	1.53	23.60	1.04
5.617	2.77	11.617	3.32	17.617	1.53	23.62	1.04
5.633	2.77	11.633	3.32	17.633	1.53	23.63	1.04
5.650	2.77	11.650	3.32	17.650	1.53	23.65	1.04
5.667	2.77	11.667	3.32	17.667	1.53	23.67	1.04
5.683	2.95	11.683	3.20	17.683	1.51	23.68	1.04
5.700	2.95	11.700	3.20	17.700	1.51	23.70	1.04
5.717	2.95	11.717	3.20	17.717	1.51	23.72	1.04
5.733	2.95	11.733	3.20	17.733	1.51	23.73	1.04
5.750	2.95	11.750	3.20	17.750	1.51	23.75	1.04
5.767	2.95	11.767	3.20	17.767	1.51	23.77	1.04
5.783	2.95	11.783	3.20	17.783	1.51	23.78	1.04
5.800	2.95	11.800	3.20	17.800	1.51	23.80	1.04
5.817	2.95	11.817	3.20	17.817	1.51	23.82	1.04
5.833	2.95	11.833	3.20	17.833	1.51	23.83	1.04
5.850	3.15	11.850	3.10	17.850	1.49	23.85	1.03
5.867	3.15	11.867	3.10	17.867	1.49	23.87	1.03
5.883	3.15	11.883	3.10	17.883	1.49	23.88	1.03
5.900	3.15	11.900	3.10	17.900	1.49	23.90	1.03
5.917	3.15	11.917	3.10	17.917	1.49	23.92	1.03
5.933	3.15	11.933	3.10	17.933	1.49	23.93	1.03
5.950	3.15	11.950	3.10	17.950	1.49	23.95	1.03
5.967	3.15	11.967	3.10	17.967	1.49	23.97	1.03
5.983	3.15	11.983	3.10	17.983	1.49	23.98	1.03
6.000	3.15	12.000	3.10	18.000	1.49	24.00	1.03

Max.Eff.Inten.(mm/hr)=	158.18	108.10	
over (min)	5.00	4.00	
Storage Coeff. (min)=	2.50 (ii)	3.43 (ii)	
Unit Hyd. Tpeak (min)=	5.00	4.00	
Unit Hyd. peak (cms)=	0.34	0.31	
			TOTALS
PEAK FLOW (cms)=	1.07	0.01	1.075 (iii)
TIME TO PEAK (hrs)=	8.00	8.02	8.00
RUNOFF VOLUME (mm)=	109.00	73.59	108.65
TOTAL RAINFALL (mm)=	110.01	110.01	110.01
RUNOFF COEFFICIENT =	0.99	0.67	0.99

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 85.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0012)		AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3		(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0010):		15.53	5.688	8.02	105.47
+ ID2= 2 (0013):		2.56	1.075	8.00	108.65
ID = 3 (0012):		18.09	6.747	8.02	105.92

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

RESERVOIR(0011)	OVERFLOW IS OFF			
IN= 2---> OUT= 1				
DT= 1.0 min	OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
	0.0000	0.0000	2.8110	0.4813
	0.0590	0.3542	3.2550	0.5511
	1.5560	0.3695	4.0320	0.5885
	2.2770	0.4312	4.6420	0.6202

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0012)	18.090	6.747	8.02	105.92
OUTFLOW: ID= 1 (0011)	18.090	4.032	8.12	94.77

PEAK FLOW REDUCTION [Qout/Qin](%)= 59.76
TIME SHIFT OF PEAK FLOW (min)= 6.00
MAXIMUM STORAGE USED (ha.m.)= 0.5885

```
V    V   I    SSSSS  U   U    A    L              (v 6.2.2019)
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

 OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
O   O    T      T    H   H   Y Y   MM MM  O   O
O   O    T      T    H   H    Y    M   M  O   O
 OOO     T      T    H   H    Y    M   M   OOO
```


***** 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\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\52e1c45c-38f7-4a61-965a-dc6a3659fbbd\scenari
Summary filename:
C:\Users\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\52e1c45c-38f7-4a61-965a-dc6a3659fbbd\scenari

DATE: 01-27-2026 TIME: 01:43:13

USER:

COMMENTS: _____

```
**********************************************
** SIMULATION : 7 - 100-year 24hr Chic - Milt **
**********************************************
```

CHICAGO STORM	IDF curve parameters: A=1435.000
Ptotal=122.41 mm	B= 5.200
	C= 0.775

used in: INTENSITY = A / (t + B)^C

Duration of storm = 24.00 hrs
Storm time step = 10.00 min
Time to peak ratio = 0.33

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.00	1.18	6.00	3.80	12.00	3.36	18.00	1.66
0.17	1.20	6.17	4.11	12.17	3.26	18.17	1.64
0.33	1.22	6.33	4.49	12.33	3.16	18.33	1.61
0.50	1.25	6.50	4.95	12.50	3.07	18.50	1.59
0.67	1.27	6.67	5.55	12.67	2.99	18.67	1.58
0.83	1.29	6.83	6.34	12.83	2.91	18.83	1.56
1.00	1.32	7.00	7.44	13.00	2.83	19.00	1.54
1.17	1.34	7.17	9.10	13.17	2.76	19.17	1.52

1.33	1.37	7.33	11.90	13.33	2.69	19.33	1.50
1.50	1.40	7.50	17.89	13.50	2.63	19.50	1.49
1.67	1.43	7.67	41.69	13.67	2.57	19.67	1.47
1.83	1.46	7.83	174.10	13.83	2.51	19.83	1.45
2.00	1.49	8.00	54.37	14.00	2.46	20.00	1.44
2.17	1.53	8.17	29.07	14.17	2.41	20.17	1.42
2.33	1.56	8.33	20.18	14.33	2.36	20.33	1.41
2.50	1.60	8.50	15.63	14.50	2.31	20.50	1.39
2.67	1.64	8.67	12.86	14.67	2.27	20.67	1.38
2.83	1.69	8.83	10.98	14.83	2.22	20.83	1.37
3.00	1.73	9.00	9.62	15.00	2.18	21.00	1.35
3.17	1.78	9.17	8.59	15.17	2.14	21.17	1.34
3.33	1.83	9.33	7.78	15.33	2.11	21.33	1.33
3.50	1.89	9.50	7.12	15.50	2.07	21.50	1.31
3.67	1.95	9.67	6.58	15.67	2.03	21.67	1.30
3.83	2.02	9.83	6.12	15.83	2.00	21.83	1.29
4.00	2.09	10.00	5.73	16.00	1.97	22.00	1.28
4.17	2.16	10.17	5.39	16.17	1.94	22.17	1.26
4.33	2.24	10.33	5.09	16.33	1.91	22.33	1.25
4.50	2.33	10.50	4.83	16.50	1.88	22.50	1.24
4.67	2.43	10.67	4.60	16.67	1.85	22.67	1.23
4.83	2.54	10.83	4.39	16.83	1.82	22.83	1.22
5.00	2.66	11.00	4.20	17.00	1.80	23.00	1.21
5.17	2.79	11.17	4.03	17.17	1.77	23.17	1.20
5.33	2.94	11.33	3.87	17.33	1.75	23.33	1.19
5.50	3.11	11.50	3.73	17.50	1.72	23.50	1.18
5.67	3.31	11.67	3.60	17.67	1.70	23.67	1.17
5.83	3.53	11.83	3.48	17.83	1.68	23.83	1.16

CALIB							
STANDHYD (0010)	Area (ha)= 15.53						
ID= 1 DT= 1.0 min	Total Imp(%)= 90.00		Dir. Conn.(%)= 90.00				

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	13.98	1.55
Dep. Storage	(mm)=	1.00	5.00
Average Slope	(%)=	1.00	2.00
Length	(m)=	321.77	40.00
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 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
0.017	1.18	6.017	3.80	12.017	3.36	18.02	1.66
0.033	1.18	6.033	3.80	12.033	3.36	18.03	1.66
0.050	1.18	6.050	3.80	12.050	3.36	18.05	1.66
0.067	1.18	6.067	3.80	12.067	3.36	18.07	1.66
0.083	1.18	6.083	3.80	12.083	3.36	18.08	1.66
0.100	1.18	6.100	3.80	12.100	3.36	18.10	1.66
0.117	1.18	6.117	3.80	12.117	3.36	18.12	1.66
0.133	1.18	6.133	3.80	12.133	3.36	18.13	1.66
0.150	1.18	6.150	3.80	12.150	3.36	18.15	1.66
0.167	1.18	6.167	3.80	12.167	3.36	18.17	1.66
0.183	1.20	6.183	4.11	12.183	3.26	18.18	1.64
0.200	1.20	6.200	4.11	12.200	3.26	18.20	1.64
0.217	1.20	6.217	4.11	12.217	3.26	18.22	1.64
0.233	1.20	6.233	4.11	12.233	3.26	18.23	1.64
0.250	1.20	6.250	4.11	12.250	3.26	18.25	1.64
0.267	1.20	6.267	4.11	12.267	3.26	18.27	1.64
0.283	1.20	6.283	4.11	12.283	3.26	18.28	1.64
0.300	1.20	6.300	4.11	12.300	3.26	18.30	1.64
0.317	1.20	6.317	4.11	12.317	3.26	18.32	1.64
0.333	1.20	6.333	4.11	12.333	3.26	18.33	1.64
0.350	1.22	6.350	4.49	12.350	3.16	18.35	1.61
0.367	1.22	6.367	4.49	12.367	3.16	18.37	1.61
0.383	1.22	6.383	4.49	12.383	3.16	18.38	1.61
0.400	1.22	6.400	4.49	12.400	3.16	18.40	1.61
0.417	1.22	6.417	4.49	12.417	3.16	18.42	1.61
0.433	1.22	6.433	4.49	12.433	3.16	18.43	1.61
0.450	1.22	6.450	4.49	12.450	3.16	18.45	1.61
0.467	1.22	6.467	4.49	12.467	3.16	18.47	1.61
0.483	1.22	6.483	4.49	12.483	3.16	18.48	1.61
0.500	1.22	6.500	4.49	12.500	3.16	18.50	1.61
0.517	1.25	6.517	4.95	12.517	3.07	18.52	1.60
0.533	1.25	6.533	4.95	12.533	3.07	18.53	1.59
0.550	1.25	6.550	4.95	12.550	3.07	18.55	1.59
0.567	1.25	6.567	4.95	12.567	3.07	18.57	1.59
0.583	1.25	6.583	4.95	12.583	3.07	18.58	1.59
0.600	1.25	6.600	4.95	12.600	3.07	18.60	1.59
0.617	1.25	6.617	4.95	12.617	3.07	18.62	1.59
0.633	1.25	6.633	4.95	12.633	3.07	18.63	1.59
0.650	1.25	6.650	4.95	12.650	3.07	18.65	1.59
0.667	1.25	6.667	4.96	12.667	3.07	18.67	1.59
0.683	1.27	6.683	5.55	12.683	2.99	18.68	1.58
0.700	1.27	6.700	5.55	12.700	2.99	18.70	1.58
0.717	1.27	6.717	5.55	12.717	2.99	18.72	1.58
0.733	1.27	6.733	5.55	12.733	2.99	18.73	1.58
0.750	1.27	6.750	5.55	12.750	2.99	18.75	1.58
0.767	1.27	6.767	5.55	12.767	2.99	18.77	1.58
0.783	1.27	6.783	5.55	12.783	2.99	18.78	1.58
0.800	1.27	6.800	5.55	12.800	2.99	18.80	1.58
0.817	1.27	6.817	5.55	12.817	2.99	18.82	1.58
0.833	1.27	6.833	5.55	12.833	2.99	18.83	1.58
0.850	1.29	6.850	6.34	12.850	2.91	18.85	1.56
0.867	1.29	6.867	6.34	12.867	2.91	18.87	1.56
0.883	1.29	6.883	6.34	12.883	2.91	18.88	1.56
0.900	1.29	6.900	6.34	12.900	2.91	18.90	1.56
0.917	1.29	6.917	6.34	12.917	2.91	18.92	1.56
0.933	1.29	6.933	6.34	12.933	2.91	18.93	1.56
0.950	1.29	6.950	6.34	12.950	2.91	18.95	1.56
0.967	1.29	6.967	6.34	12.967	2.91	18.97	1.56
0.983	1.29	6.983	6.34	12.983	2.91	18.98	1.56
1.000	1.29	7.000	6.34	13.000	2.91	19.00	1.56
1.017	1.32	7.017	7.44	13.017	2.83	19.02	1.54
1.033	1.32	7.033	7.44	13.033	2.83	19.03	1.54
1.050	1.32	7.050	7.44	13.050	2.83	19.05	1.54
1.067	1.32	7.067	7.44	13.067	2.83	19.07	1.54
1.083	1.32	7.083	7.44	13.083	2.83	19.08	1.54
1.100	1.32	7.100	7.44	13.100	2.83	19.10	1.54
1.117	1.32	7.117	7.44	13.117	2.83	19.12	1.54
1.133	1.32	7.133	7.44	13.133	2.83	19.13	1.54
1.150	1.32	7.150	7.44	13.150	2.83	19.15	1.54
1.167	1.32	7.167	7.44	13.167	2.83	19.17	1.54
1.183	1.34	7.183	9.10	13.183	2.76	19.18	1.52
1.200	1.34	7.200	9.10	13.200	2.76	19.20	1.52
1.217	1.34	7.217	9.10	13.217	2.76	19.22	1.52
1.233	1.34	7.233	9.10	13.233	2.76	19.23	1.52
1.250	1.34	7.250	9.10	13.250	2.76	19.25	1.52
1.267	1.34	7.267	9.10	13.267	2.76	19.27	1.52
1.283	1.34	7.283	9.10	13.283	2.76	19.28	1.52
1.300	1.34	7.300	9.10	13.300	2.76	19.30	1.52
1.317	1.34	7.317	9.10	13.317	2.76	19.32	1.52
1.333	1.34	7.333	9.10	13.333	2.76	19.33	1.52
1.350	1.37	7.350	11.90	13.350	2.69	19.35	1.50
1.367	1.37	7.367	11.90	13.367	2.69	19.37	1.50
1.383	1.37	7.383	11.90	13.383	2.69	19.38	1.50
1.400	1.37	7.400	11.90	13.400	2.69	19.40	1.50
1.417	1.37	7.417	11.90	13.417	2.69	19.42	1.50
1.433	1.37	7.433	11.90	13.433	2.69	19.43	1.50
1.450	1.37	7.450	11.90	13.450	2.69	19.45	1.50
1.467	1.37	7.467	11.90	13.467	2.69	19.47	1.50
1.483	1.37	7.483	11.90	13.483	2.69	19.48	1.50
1.500	1.37	7.500	11.92	13.500	2.69	19.50	1.50
1.517	1.40	7.517	17.89	13.517	2.63	19.52	1.49
1.533	1.40	7.533	17.89	13.533	2.63	19.53	1.49
1.550	1.40	7.550	17.89	13.550	2.63	19.55	1.49
1.567	1.40	7.567	17.89	13.567	2.63	19.57	1.49
1.583	1.40	7.583	17.89	13.583	2.63	19.58	1.49
1.600	1.40	7.600	17.89	13.600	2.63	19.60	1.49
1.617	1.40	7.617	17.89	13.617	2.63	19.62	1.49
1.633	1.40	7.633	17.89	13.633	2.63	19.63	1.49
1.650	1.40	7.650	17.89	13.650	2.63	19.65	1.49
1.667	1.40	7.667	17.95	13.667	2.63	19.67	1.49
1.683	1.43	7.683	41.69	13.683	2.57	19.68	1.47
1.700	1.43	7.700	41.69	13.700	2.57	19.70	1.47
1.717	1.43	7.717	41.69	13.717	2.57	19.72	1.47
1.733	1.43	7.733	41.69	13.733	2.57	19.73	1.47
1.750	1.43	7.750	41.69	13.750	2.57	19.75	1.47
1.767	1.43	7.767	41.69	13.767	2.57	19.77	1.47
1.783	1.43	7.783	41.69	13.783	2.57	19.78	1.47
1.800	1.43	7.800	41.69	13.800	2.57	19.80	1.47
1.817	1.43	7.817	41.69	13.817	2.57	19.82	1.47
1.833	1.43	7.833	42.07	13.833	2.57	19.83	1.47
1.850	1.46	7.850	174.10	13.850	2.51	19.85	1.45
1.867	1.46	7.867	174.10	13.867	2.51	19.87	1.45
1.883	1.46	7.883	174.10	13.883	2.51	19.88	1.45
1.900	1.46	7.900	174.10	13.900	2.51	19.90	1.45
1.917	1.46	7.917	174.10	13.917	2.51	19.92	1.45
1.933	1.46	7.933	174.10	13.933	2.51	19.93	1.45
1.950	1.46	7.950	174.10	13.950	2.51	19.95	1.45
1.967	1.46	7.967	174.10	13.967	2.51	19.97	1.45
1.983	1.46	7.983	174.10	13.983	2.51	19.98	1.45
2.000	1.46	8.000	173.75	14.000	2.51	20.00	1.45
2.017	1.49	8.017	54.37	14.017	2.46	20.02	1.44
2.033	1.49	8.033	54.37	14.033	2.46	20.03	1.44
2.050	1.49	8.050	54.37	14.050	2.46	20.05	1.44
2.067	1.49	8.067	54.37	14.067	2.46	20.07	1.44
2.083	1.49	8.083	54.37	14.083	2.46	20.08	1.44
2.100	1.49	8.100	54.37	14.100	2.46	20.10	1.44
2.117	1.49	8.117	54.37	14.117	2.46	20.12	1.44
2.133	1.49	8.133	54.37	14.133	2.46	20.13	1.44
2.150	1.49	8.150	54.37	14.150	2.46	20.15	1.44
2.167	1.49	8.167	54.30	14.167	2.46	20.17	1.44
2.183	1.53	8.183	29.07	14.183	2.41	20.18	1.42
2.200	1.53	8.200	29.07	14.200	2.41	20.20	1.42
2.217	1.53	8.217	29.07	14.217	2.41	20.22	1.42
2.233	1.53	8.233	29.07	14.233	2.41	20.23	1.42
2.250	1.53	8.250	29.07	14.250	2.41	20.25	1.42
2.267	1.53	8.267	29.07	14.267	2.41	20.27	1.42
2.283	1.53	8.283	29.07	14.283	2.41	20.28	1.42
2.300	1.53	8.300	29.07	14.300	2.41	20.30	1.42
2.317	1.53	8.317	29.07	14.317	2.41	20.32	1.42
2.333	1.53	8.333	29.05	14.333	2.41	20.33	1.42
2.350	1.56	8.350	20.18	14.350	2.36	20.35	1.41
2.367	1.56	8.367	20.18	14.367	2.36	20.37	1.41
2.383	1.56	8.383	20.18	14.383	2.36	20.38	1.41
2.400	1.56	8.400	20.18	14.400	2.36	20.40	1.41
2.417	1.56	8.417	20.18	14.417	2.36	20.42	1.41
2.433	1.56	8.433	20.18	14.433	2.36	20.43	1.41
2.450	1.56	8.450	20.18	14.450	2.36	20.45	1.41
2.467	1.56	8.467	20.18	14.467	2.36	20.47	1.41
2.483	1.56	8.483	20.18	14.483	2.36	20.48	1.41
2.500	1.56	8.500	20.17	14.500	2.36	20.50	1.41
2.517	1.60	8.517	15.63	14.517	2.31	20.52	1.39

2.533	1.60	8.533	15.63	14.533	2.31	20.53	1.39
2.550	1.60	8.550	15.63	14.550	2.31	20.55	1.39
2.567	1.60	8.567	15.63	14.567	2.31	20.57	1.39
2.583	1.60	8.583	15.63	14.583	2.31	20.58	1.39
2.600	1.60	8.600	15.63	14.600	2.31	20.60	1.39
2.617	1.60	8.617	15.63	14.617	2.31	20.62	1.39
2.633	1.60	8.633	15.63	14.633	2.31	20.63	1.39
2.650	1.60	8.650	15.63	14.650	2.31	20.65	1.39
2.667	1.60	8.667	15.62	14.667	2.31	20.67	1.39
2.683	1.64	8.683	12.86	14.683	2.27	20.68	1.38
2.700	1.64	8.700	12.86	14.700	2.27	20.70	1.38
2.717	1.64	8.717	12.86	14.717	2.27	20.72	1.38
2.733	1.64	8.733	12.86	14.733	2.27	20.73	1.38
2.750	1.64	8.750	12.86	14.750	2.27	20.75	1.38
2.767	1.64	8.767	12.86	14.767	2.27	20.77	1.38
2.783	1.64	8.783	12.86	14.783	2.27	20.78	1.38
2.800	1.64	8.800	12.86	14.800	2.27	20.80	1.38
2.817	1.64	8.817	12.86	14.817	2.27	20.82	1.38
2.833	1.64	8.833	12.85	14.833	2.27	20.83	1.38
2.850	1.69	8.850	10.98	14.850	2.22	20.85	1.37
2.867	1.69	8.867	10.98	14.867	2.22	20.87	1.37
2.883	1.69	8.883	10.98	14.883	2.22	20.88	1.37
2.900	1.69	8.900	10.98	14.900	2.22	20.90	1.37
2.917	1.69	8.917	10.98	14.917	2.22	20.92	1.37
2.933	1.69	8.933	10.98	14.933	2.22	20.93	1.37
2.950	1.69	8.950	10.98	14.950	2.22	20.95	1.37
2.967	1.69	8.967	10.98	14.967	2.22	20.97	1.37
2.983	1.69	8.983	10.98	14.983	2.22	20.98	1.37
3.000	1.69	9.000	10.98	15.000	2.22	21.00	1.37
3.017	1.73	9.017	9.62	15.017	2.18	21.02	1.35
3.033	1.73	9.033	9.62	15.033	2.18	21.03	1.35
3.050	1.73	9.050	9.62	15.050	2.18	21.05	1.35
3.067	1.73	9.067	9.62	15.067	2.18	21.07	1.35
3.083	1.73	9.083	9.62	15.083	2.18	21.08	1.35
3.100	1.73	9.100	9.62	15.100	2.18	21.10	1.35
3.117	1.73	9.117	9.62	15.117	2.18	21.12	1.35
3.133	1.73	9.133	9.62	15.133	2.18	21.13	1.35
3.150	1.73	9.150	9.62	15.150	2.18	21.15	1.35
3.167	1.73	9.167	9.62	15.167	2.18	21.17	1.35
3.183	1.78	9.183	8.59	15.183	2.14	21.18	1.34
3.200	1.78	9.200	8.59	15.200	2.14	21.20	1.34
3.217	1.78	9.217	8.59	15.217	2.14	21.22	1.34
3.233	1.78	9.233	8.59	15.233	2.14	21.23	1.34
3.250	1.78	9.250	8.59	15.250	2.14	21.25	1.34
3.267	1.78	9.267	8.59	15.267	2.14	21.27	1.34
3.283	1.78	9.283	8.59	15.283	2.14	21.28	1.34
3.300	1.78	9.300	8.59	15.300	2.14	21.30	1.34
3.317	1.78	9.317	8.59	15.317	2.14	21.32	1.34
3.333	1.78	9.333	8.59	15.333	2.14	21.33	1.34
3.350	1.83	9.350	7.78	15.350	2.11	21.35	1.33
3.367	1.83	9.367	7.78	15.367	2.11	21.37	1.33
3.383	1.83	9.383	7.78	15.383	2.11	21.38	1.33
3.400	1.83	9.400	7.78	15.400	2.11	21.40	1.33
3.417	1.83	9.417	7.78	15.417	2.11	21.42	1.33
3.433	1.83	9.433	7.78	15.433	2.11	21.43	1.33
3.450	1.83	9.450	7.78	15.450	2.11	21.45	1.33
3.467	1.83	9.467	7.78	15.467	2.11	21.47	1.33
3.483	1.83	9.483	7.78	15.483	2.11	21.48	1.33
3.500	1.83	9.500	7.78	15.500	2.11	21.50	1.33
3.517	1.89	9.517	7.12	15.517	2.07	21.52	1.31
3.533	1.89	9.533	7.12	15.533	2.07	21.53	1.31
3.550	1.89	9.550	7.12	15.550	2.07	21.55	1.31
3.567	1.89	9.567	7.12	15.567	2.07	21.57	1.31
3.583	1.89	9.583	7.12	15.583	2.07	21.58	1.31
3.600	1.89	9.600	7.12	15.600	2.07	21.60	1.31
3.617	1.89	9.617	7.12	15.617	2.07	21.62	1.31
3.633	1.89	9.633	7.12	15.633	2.07	21.63	1.31
3.650	1.89	9.650	7.12	15.650	2.07	21.65	1.31
3.667	1.89	9.667	7.12	15.667	2.07	21.67	1.31
3.683	1.95	9.683	6.58	15.683	2.03	21.68	1.30
3.700	1.95	9.700	6.58	15.700	2.03	21.70	1.30
3.717	1.95	9.717	6.58	15.717	2.03	21.72	1.30
3.733	1.95	9.733	6.58	15.733	2.03	21.73	1.30
3.750	1.95	9.750	6.58	15.750	2.03	21.75	1.30
3.767	1.95	9.767	6.58	15.767	2.03	21.77	1.30
3.783	1.95	9.783	6.58	15.783	2.03	21.78	1.30
3.800	1.95	9.800	6.58	15.800	2.03	21.80	1.30
3.817	1.95	9.817	6.58	15.817	2.03	21.82	1.30
3.833	1.95	9.833	6.58	15.833	2.03	21.83	1.30
3.850	2.02	9.850	6.12	15.850	2.00	21.85	1.29
3.867	2.02	9.867	6.12	15.867	2.00	21.87	1.29
3.883	2.02	9.883	6.12	15.883	2.00	21.88	1.29
3.900	2.02	9.900	6.12	15.900	2.00	21.90	1.29
3.917	2.02	9.917	6.12	15.917	2.00	21.92	1.29
3.933	2.02	9.933	6.12	15.933	2.00	21.93	1.29
3.950	2.02	9.950	6.12	15.950	2.00	21.95	1.29
3.967	2.02	9.967	6.12	15.967	2.00	21.97	1.29
3.983	2.02	9.983	6.12	15.983	2.00	21.98	1.29
4.000	2.02	10.000	6.12	16.000	2.00	22.00	1.29
4.017	2.09	10.017	5.73	16.017	1.97	22.02	1.28
4.033	2.09	10.033	5.73	16.033	1.97	22.03	1.28
4.050	2.09	10.050	5.73	16.050	1.97	22.05	1.28
4.067	2.09	10.067	5.73	16.067	1.97	22.07	1.28
4.083	2.09	10.083	5.73	16.083	1.97	22.08	1.28
4.100	2.09	10.100	5.73	16.100	1.97	22.10	1.28
4.117	2.09	10.117	5.73	16.117	1.97	22.12	1.28
4.133	2.09	10.133	5.73	16.133	1.97	22.13	1.28
4.150	2.09	10.150	5.73	16.150	1.97	22.15	1.28
4.167	2.09	10.167	5.73	16.167	1.97	22.17	1.28
4.183	2.16	10.183	5.39	16.183	1.94	22.18	1.26
4.200	2.16	10.200	5.39	16.200	1.94	22.20	1.26
4.217	2.16	10.217	5.39	16.217	1.94	22.22	1.26
4.233	2.16	10.233	5.39	16.233	1.94	22.23	1.26
4.250	2.16	10.250	5.39	16.250	1.94	22.25	1.26
4.267	2.16	10.267	5.39	16.267	1.94	22.27	1.26
4.283	2.16	10.283	5.39	16.283	1.94	22.28	1.26
4.300	2.16	10.300	5.39	16.300	1.94	22.30	1.26
4.317	2.16	10.317	5.39	16.317	1.94	22.32	1.26
4.333	2.16	10.333	5.39	16.333	1.94	22.33	1.26
4.350	2.24	10.350	5.09	16.350	1.91	22.35	1.25
4.367	2.24	10.367	5.09	16.367	1.91	22.37	1.25
4.383	2.24	10.383	5.09	16.383	1.91	22.38	1.25
4.400	2.24	10.400	5.09	16.400	1.91	22.40	1.25
4.417	2.24	10.417	5.09	16.417	1.91	22.42	1.25
4.433	2.24	10.433	5.09	16.433	1.91	22.43	1.25
4.450	2.24	10.450	5.09	16.450	1.91	22.45	1.25
4.467	2.24	10.467	5.09	16.467	1.91	22.47	1.25
4.483	2.24	10.483	5.09	16.483	1.91	22.48	1.25
4.500	2.24	10.500	5.09	16.500	1.91	22.50	1.25
4.517	2.33	10.517	4.83	16.517	1.88	22.52	1.24
4.533	2.33	10.533	4.83	16.533	1.88	22.53	1.24
4.550	2.33	10.550	4.83	16.550	1.88	22.55	1.24
4.567	2.33	10.567	4.83	16.567	1.88	22.57	1.24
4.583	2.33	10.583	4.83	16.583	1.88	22.58	1.24
4.600	2.33	10.600	4.83	16.600	1.88	22.60	1.24
4.617	2.33	10.617	4.83	16.617	1.88	22.62	1.24
4.633	2.33	10.633	4.83	16.633	1.88	22.63	1.24
4.650	2.33	10.650	4.83	16.650	1.88	22.65	1.24
4.667	2.33	10.667	4.83	16.667	1.88	22.67	1.24
4.683	2.43	10.683	4.60	16.683	1.85	22.68	1.23
4.700	2.43	10.700	4.60	16.700	1.85	22.70	1.23
4.717	2.43	10.717	4.60	16.717	1.85	22.72	1.23
4.733	2.43	10.733	4.60	16.733	1.85	22.73	1.23
4.750	2.43	10.750	4.60	16.750	1.85	22.75	1.23
4.767	2.43	10.767	4.60	16.767	1.85	22.77	1.23
4.783	2.43	10.783	4.60	16.783	1.85	22.78	1.23
4.800	2.43	10.800	4.60	16.800	1.85	22.80	1.23
4.817	2.43	10.817	4.60	16.817	1.85	22.82	1.23
4.833	2.43	10.833	4.60	16.833	1.85	22.83	1.23
4.850	2.54	10.850	4.39	16.850	1.82	22.85	1.22
4.867	2.54	10.867	4.39	16.867	1.82	22.87	1.22
4.883	2.54	10.883	4.39	16.883	1.82	22.88	1.22
4.900	2.54	10.900	4.39	16.900	1.82	22.90	1.22
4.917	2.54	10.917	4.39	16.917	1.82	22.92	1.22
4.933	2.54	10.933	4.39	16.933	1.82	22.93	1.22
4.950	2.54	10.950	4.39	16.950	1.82	22.95	1.22
4.967	2.54	10.967	4.39	16.967	1.82	22.97	1.22
4.983	2.54	10.983	4.39	16.983	1.82	22.98	1.22
5.000	2.54	11.000	4.39	17.000	1.82	23.00	1.22
5.017	2.66	11.017	4.20	17.017	1.80	23.02	1.21
5.033	2.66	11.033	4.20	17.033	1.80	23.03	1.21
5.050	2.66	11.050	4.20	17.050	1.80	23.05	1.21
5.067	2.66	11.067	4.20	17.067	1.80	23.07	1.21
5.083	2.66	11.083	4.20	17.083	1.80	23.08	1.21
5.100	2.66	11.100	4.20	17.100	1.80	23.10	1.21
5.117	2.66	11.117	4.20	17.117	1.80	23.12	1.21
5.133	2.66	11.133	4.20	17.133	1.80	23.13	1.21
5.150	2.66	11.150	4.20	17.150	1.80	23.15	1.21
5.167	2.66	11.167	4.20	17.167	1.80	23.17	1.21
5.183	2.79	11.183	4.03	17.183	1.77	23.18	1.20
5.200	2.79	11.200	4.03	17.200	1.77	23.20	1.20
5.217	2.79	11.217	4.03	17.217	1.77	23.22	1.20
5.233	2.79	11.233	4.03	17.233	1.77	23.23	1.20
5.250	2.79	11.250	4.03	17.250	1.77	23.25	1.20
5.267	2.79	11.267	4.03	17.267	1.77	23.27	1.20
5.283	2.79	11.283	4.03	17.283	1.77	23.28	1.20
5.300	2.79	11.300	4.03	17.300	1.77	23.30	1.20
5.317	2.79	11.317	4.03	17.317	1.77	23.32	1.20
5.333	2.79	11.333	4.03	17.333	1.77	23.33	1.20
5.350	2.94	11.350	3.87	17.350	1.75	23.35	1.19
5.367	2.94	11.367	3.87	17.367	1.75	23.37	1.19
5.383	2.94	11.383	3.87	17.383	1.75	23.38	1.19
5.400	2.94	11.400	3.87	17.400	1.75	23.40	1.19
5.417	2.94	11.417	3.87	17.417	1.75	23.42	1.19
5.433	2.94	11.433	3.87	17.433	1.75	23.43	1.19
5.450	2.94	11.450	3.87	17.450	1.75	23.45	1.19
5.467	2.94	11.467	3.87	17.467	1.75	23.47	1.19
5.483	2.94	11.483	3.87	17.483	1.75	23.48	1.19
5.500	2.94	11.500	3.87	17.500	1.75	23.50	1.19
5.517	3.11	11.517	3.73	17.517	1.72	23.52	1.18
5.533	3.11	11.533	3.73	17.533	1.72	23.53	1.18
5.550	3.11	11.550	3.73	17.550	1.72	23.55	1.18
5.567	3.11	11.567	3.73	17.567	1.72	23.57	1.18
5.583	3.11	11.583	3.73	17.583	1.72	23.58	1.18
5.600	3.11	11.600	3.73	17.600	1.72	23.60	1.18
5.617	3.11	11.617	3.73	17.617	1.72	23.62	1.18
5.633	3.11	11.633	3.73	17.633	1.72	23.63	1.18
5.650	3.11	11.650	3.73	17.650	1.72	23.65	1.18
5.667	3.11	11.667	3.73	17.667	1.72	23.67	1.18
5.683	3.31	11.683	3.60	17.683	1.70	23.68	1.17
5.700	3.31	11.700	3.60	17.700	1.70	23.70	1.17
5.717	3.31	11.717	3.60	17.717	1.70	23.72	1.17
5.733	3.31	11.733	3.60	17.733	1.70	23.73	1.17
5.750	3.31	11.750	3.60	17.750	1.70	23.75	1.17
5.767	3.31	11.767	3.60	17.767	1.70	23.77	1.17
5.783	3.31	11.783	3.60	17.783	1.70	23.78	1.17
5.800	3.31	11.800	3.60	17.800	1.70	23.80	1.17
5.817	3.31	11.817	3.60	17.817	1.70	23.82	1.17
5.833	3.31	11.833	3.60	17.833	1.70	23.83	1.17
5.850	3.53	11.850	3.48	17.850	1.68	23.85	1.16

5.867	3.53	11.867	3.48	17.867	1.68	23.87	1.16
5.883	3.53	11.883	3.48	17.883	1.68	23.88	1.16
5.900	3.53	11.900	3.48	17.900	1.68	23.90	1.16
5.917	3.53	11.917	3.48	17.917	1.68	23.92	1.16
5.933	3.53	11.933	3.48	17.933	1.68	23.93	1.16
5.950	3.53	11.950	3.48	17.950	1.68	23.95	1.16
5.967	3.53	11.967	3.48	17.967	1.68	23.97	1.16
5.983	3.53	11.983	3.48	17.983	1.68	23.98	1.16
6.000	3.53	12.000	3.48	18.000	1.68	24.00	1.16

Max.Eff.Inten.(mm/hr)=	174.10	124.59	
over (min)	5.00	7.00	
Storage Coeff. (min)=	4.13 (ii)	6.47 (ii)	
Unit Hyd. Tpeak (min)=	5.00	7.00	
Unit Hyd. peak (cms)=	0.26	0.17	
			TOTALS
PEAK FLOW (cms)=	5.95	0.41	6.334 (iii)
TIME TO PEAK (hrs)=	8.02	8.05	8.02
RUNOFF VOLUME (mm)=	121.39	84.95	117.76
TOTAL RAINFALL (mm)=	122.41	122.41	122.41
RUNOFF COEFFICIENT =	0.99	0.69	0.96

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 85.0 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			
STANDHYD (0013)	Area (ha)=	2.56	
ID= 1 DT= 1.0 min	Total Imp(%)=	99.00	Dir. Conn.(%)= 99.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	2.53	0.03
Dep. Storage	(mm)=	1.00	5.00
Average Slope	(%)=	1.00	2.00
Length	(m)=	130.64	40.00
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 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
0.017	1.18	6.017	3.80	12.017	3.36	18.02	1.66
0.033	1.18	6.033	3.80	12.033	3.36	18.03	1.66
0.050	1.18	6.050	3.80	12.050	3.36	18.05	1.66
0.067	1.18	6.067	3.80	12.067	3.36	18.07	1.66
0.083	1.18	6.083	3.80	12.083	3.36	18.08	1.66
0.100	1.18	6.100	3.80	12.100	3.36	18.10	1.66
0.117	1.18	6.117	3.80	12.117	3.36	18.12	1.66
0.133	1.18	6.133	3.80	12.133	3.36	18.13	1.66
0.150	1.18	6.150	3.80	12.150	3.36	18.15	1.66
0.167	1.18	6.167	3.80	12.167	3.36	18.17	1.66
0.183	1.20	6.183	4.11	12.183	3.26	18.18	1.64
0.200	1.20	6.200	4.11	12.200	3.26	18.20	1.64
0.217	1.20	6.217	4.11	12.217	3.26	18.22	1.64
0.233	1.20	6.233	4.11	12.233	3.26	18.23	1.64
0.250	1.20	6.250	4.11	12.250	3.26	18.25	1.64
0.267	1.20	6.267	4.11	12.267	3.26	18.27	1.64
0.283	1.20	6.283	4.11	12.283	3.26	18.28	1.64
0.300	1.20	6.300	4.11	12.300	3.26	18.30	1.64
0.317	1.20	6.317	4.11	12.317	3.26	18.32	1.64
0.333	1.20	6.333	4.11	12.333	3.26	18.33	1.64
0.350	1.22	6.350	4.49	12.350	3.16	18.35	1.61
0.367	1.22	6.367	4.49	12.367	3.16	18.37	1.61
0.383	1.22	6.383	4.49	12.383	3.16	18.38	1.61
0.400	1.22	6.400	4.49	12.400	3.16	18.40	1.61
0.417	1.22	6.417	4.49	12.417	3.16	18.42	1.61
0.433	1.22	6.433	4.49	12.433	3.16	18.43	1.61
0.450	1.22	6.450	4.49	12.450	3.16	18.45	1.61
0.467	1.22	6.467	4.49	12.467	3.16	18.47	1.61
0.483	1.22	6.483	4.49	12.483	3.16	18.48	1.61
0.500	1.22	6.500	4.49	12.500	3.16	18.50	1.61
0.517	1.25	6.517	4.95	12.517	3.07	18.52	1.60
0.533	1.25	6.533	4.95	12.533	3.07	18.53	1.59
0.550	1.25	6.550	4.95	12.550	3.07	18.55	1.59
0.567	1.25	6.567	4.95	12.567	3.07	18.57	1.59
0.583	1.25	6.583	4.95	12.583	3.07	18.58	1.59
0.600	1.25	6.600	4.95	12.600	3.07	18.60	1.59
0.617	1.25	6.617	4.95	12.617	3.07	18.62	1.59
0.633	1.25	6.633	4.95	12.633	3.07	18.63	1.59
0.650	1.25	6.650	4.95	12.650	3.07	18.65	1.59
0.667	1.25	6.667	4.96	12.667	3.07	18.67	1.59
0.683	1.27	6.683	5.55	12.683	2.99	18.68	1.58
0.700	1.27	6.700	5.55	12.700	2.99	18.70	1.58
0.717	1.27	6.717	5.55	12.717	2.99	18.72	1.58
0.733	1.27	6.733	5.55	12.733	2.99	18.73	1.58
0.750	1.27	6.750	5.55	12.750	2.99	18.75	1.58
0.767	1.27	6.767	5.55	12.767	2.99	18.77	1.58
0.783	1.27	6.783	5.55	12.783	2.99	18.78	1.58
0.800	1.27	6.800	5.55	12.800	2.99	18.80	1.58
0.817	1.27	6.817	5.55	12.817	2.99	18.82	1.58
0.833	1.27	6.833	5.55	12.833	2.99	18.83	1.58
0.850	1.29	6.850	6.34	12.850	2.91	18.85	1.56
0.867	1.29	6.867	6.34	12.867	2.91	18.87	1.56
0.883	1.29	6.883	6.34	12.883	2.91	18.88	1.56
0.900	1.29	6.900	6.34	12.900	2.91	18.90	1.56
0.917	1.29	6.917	6.34	12.917	2.91	18.92	1.56
0.933	1.29	6.933	6.34	12.933	2.91	18.93	1.56
0.950	1.29	6.950	6.34	12.950	2.91	18.95	1.56
0.967	1.29	6.967	6.34	12.967	2.91	18.97	1.56
0.983	1.29	6.983	6.34	12.983	2.91	18.98	1.56
1.000	1.29	7.000	6.34	13.000	2.91	19.00	1.56
1.017	1.32	7.017	7.44	13.017	2.83	19.02	1.54
1.033	1.32	7.033	7.44	13.033	2.83	19.03	1.54
1.050	1.32	7.050	7.44	13.050	2.83	19.05	1.54
1.067	1.32	7.067	7.44	13.067	2.83	19.07	1.54
1.083	1.32	7.083	7.44	13.083	2.83	19.08	1.54
1.100	1.32	7.100	7.44	13.100	2.83	19.10	1.54
1.117	1.32	7.117	7.44	13.117	2.83	19.12	1.54
1.133	1.32	7.133	7.44	13.133	2.83	19.13	1.54
1.150	1.32	7.150	7.44	13.150	2.83	19.15	1.54
1.167	1.32	7.167	7.44	13.167	2.83	19.17	1.54
1.183	1.34	7.183	9.10	13.183	2.76	19.18	1.52
1.200	1.34	7.200	9.10	13.200	2.76	19.20	1.52
1.217	1.34	7.217	9.10	13.217	2.76	19.22	1.52
1.233	1.34	7.233	9.10	13.233	2.76	19.23	1.52
1.250	1.34	7.250	9.10	13.250	2.76	19.25	1.52
1.267	1.34	7.267	9.10	13.267	2.76	19.27	1.52
1.283	1.34	7.283	9.10	13.283	2.76	19.28	1.52
1.300	1.34	7.300	9.10	13.300	2.76	19.30	1.52
1.317	1.34	7.317	9.10	13.317	2.76	19.32	1.52
1.333	1.34	7.333	9.10	13.333	2.76	19.33	1.52
1.350	1.37	7.350	11.90	13.350	2.69	19.35	1.50
1.367	1.37	7.367	11.90	13.367	2.69	19.37	1.50
1.383	1.37	7.383	11.90	13.383	2.69	19.38	1.50
1.400	1.37	7.400	11.90	13.400	2.69	19.40	1.50
1.417	1.37	7.417	11.90	13.417	2.69	19.42	1.50
1.433	1.37	7.433	11.90	13.433	2.69	19.43	1.50
1.450	1.37	7.450	11.90	13.450	2.69	19.45	1.50
1.467	1.37	7.467	11.90	13.467	2.69	19.47	1.50
1.483	1.37	7.483	11.90	13.483	2.69	19.48	1.50
1.500	1.37	7.500	11.92	13.500	2.69	19.50	1.50
1.517	1.40	7.517	17.89	13.517	2.63	19.52	1.49
1.533	1.40	7.533	17.89	13.533	2.63	19.53	1.49
1.550	1.40	7.550	17.89	13.550	2.63	19.55	1.49
1.567	1.40	7.567	17.89	13.567	2.63	19.57	1.49
1.583	1.40	7.583	17.89	13.583	2.63	19.58	1.49
1.600	1.40	7.600	17.89	13.600	2.63	19.60	1.49
1.617	1.40	7.617	17.89	13.617	2.63	19.62	1.49
1.633	1.40	7.633	17.89	13.633	2.63	19.63	1.49
1.650	1.40	7.650	17.89	13.650	2.63	19.65	1.49
1.667	1.40	7.667	17.95	13.667	2.63	19.67	1.49
1.683	1.43	7.683	41.69	13.683	2.57	19.68	1.47
1.700	1.43	7.700	41.69	13.700	2.57	19.70	1.47
1.717	1.43	7.717	41.69	13.717	2.57	19.72	1.47
1.733	1.43	7.733	41.69	13.733	2.57	19.73	1.47
1.750	1.43	7.750	41.69	13.750	2.57	19.75	1.47
1.767	1.43	7.767	41.69	13.767	2.57	19.77	1.47
1.783	1.43	7.783	41.69	13.783	2.57	19.78	1.47
1.800	1.43	7.800	41.69	13.800	2.57	19.80	1.47
1.817	1.43	7.817	41.69	13.817	2.57	19.82	1.47
1.833	1.43	7.833	42.07	13.833	2.57	19.83	1.47
1.850	1.46	7.850	174.10	13.850	2.51	19.85	1.45
1.867	1.46	7.867	174.10	13.867	2.51	19.87	1.45
1.883	1.46	7.883	174.10	13.883	2.51	19.88	1.45
1.900	1.46	7.900	174.10	13.900	2.51	19.90	1.45
1.917	1.46	7.917	174.10	13.917	2.51	19.92	1.45
1.933	1.46	7.933	174.10	13.933	2.51	19.93	1.45
1.950	1.46	7.950	174.10	13.950	2.51	19.95	1.45
1.967	1.46	7.967	174.10	13.967	2.51	19.97	1.45
1.983	1.46	7.983	174.10	13.983	2.51	19.98	1.45
2.000	1.46	8.000	173.75	14.000	2.51	20.00	1.45
2.017	1.49	8.017	54.37	14.017	2.46	20.02	1.44
2.033	1.49	8.033	54.37	14.033	2.46	20.03	1.44
2.050	1.49	8.050	54.37	14.050	2.46	20.05	1.44
2.067	1.49	8.067	54.37	14.067	2.46	20.07	1.44
2.083	1.49	8.083	54.37	14.083	2.46	20.08	1.44
2.100	1.49	8.100	54.37	14.100	2.46	20.10	1.44
2.117	1.49	8.117	54.37	14.117	2.46	20.12	1.44
2.133	1.49	8.133	54.37	14.133	2.46	20.13	1.44
2.150	1.49	8.150	54.37	14.150	2.46	20.15	1.44
2.167	1.49	8.167	54.30	14.167	2.46	20.17	1.44
2.183	1.53	8.183	29.07	14.183	2.41	20.18	1.42
2.200	1.53	8.200	29.07	14.200	2.41	20.20	1.42
2.217	1.53	8.217	29.07	14.217	2.41	20.22	1.42
2.233	1.53	8.233	29.07	14.233	2.41	20.23	1.42
2.250	1.53	8.250	29.07	14.250	2.41	20.25	1.42
2.267	1.53	8.267	29.07	14.267	2.41	20.27	1.42
2.283	1.53	8.283	29.07	14.283	2.41	20.28	1.42
2.300	1.53	8.300	29.07	14.300	2.41	20.30	1.42
2.317	1.53	8.317	29.07	14.317	2.41	20.32	1.42
2.333	1.53	8.333	29.05	14.333	2.41	20.33	1.42
2.350	1.56	8.350	20.18	14.350	2.36	20.35	1.41
2.367	1.56	8.367	20.18	14.367	2.36	20.37	1.41
2.383	1.56	8.383	20.18	14.383	2.36	20.38	1.41
2.400	1.56	8.400	20.18	14.400	2.36	20.40	1.41
2.417	1.56	8.417	20.18	14.417	2.36	20.42	1.41
2.433	1.56	8.433	20.18	14.433	2.36	20.43	1.41
2.450	1.56	8.450	20.18	14.450	2.36	20.45	1.41
2.467	1.56	8.467	20.18	14.467	2.36	20.47	1.41
2.483	1.56	8.483	20.18	14.483	2.36	20.48	1.41
2.500	1.56	8.500	20.17	14.500	2.36	20.50	1.41
2.517	1.60	8.517	15.63	14.517	2.31	20.52	1.39
2.533	1.60	8.533	15.63	14.533	2.31	20.53	1.39

2.550	1.60	8.550	15.63	14.550	2.31	20.55	1.39
2.567	1.60	8.567	15.63	14.567	2.31	20.57	1.39
2.583	1.60	8.583	15.63	14.583	2.31	20.58	1.39
2.600	1.60	8.600	15.63	14.600	2.31	20.60	1.39
2.617	1.60	8.617	15.63	14.617	2.31	20.62	1.39
2.633	1.60	8.633	15.63	14.633	2.31	20.63	1.39
2.650	1.60	8.650	15.63	14.650	2.31	20.65	1.39
2.667	1.60	8.667	15.62	14.667	2.31	20.67	1.39
2.683	1.64	8.683	12.86	14.683	2.27	20.68	1.38
2.700	1.64	8.700	12.86	14.700	2.27	20.70	1.38
2.717	1.64	8.717	12.86	14.717	2.27	20.72	1.38
2.733	1.64	8.733	12.86	14.733	2.27	20.73	1.38
2.750	1.64	8.750	12.86	14.750	2.27	20.75	1.38
2.767	1.64	8.767	12.86	14.767	2.27	20.77	1.38
2.783	1.64	8.783	12.86	14.783	2.27	20.78	1.38
2.800	1.64	8.800	12.86	14.800	2.27	20.80	1.38
2.817	1.64	8.817	12.86	14.817	2.27	20.82	1.38
2.833	1.64	8.833	12.85	14.833	2.27	20.83	1.38
2.850	1.69	8.850	10.98	14.850	2.22	20.85	1.37
2.867	1.69	8.867	10.98	14.867	2.22	20.87	1.37
2.883	1.69	8.883	10.98	14.883	2.22	20.88	1.37
2.900	1.69	8.900	10.98	14.900	2.22	20.90	1.37
2.917	1.69	8.917	10.98	14.917	2.22	20.92	1.37
2.933	1.69	8.933	10.98	14.933	2.22	20.93	1.37
2.950	1.69	8.950	10.98	14.950	2.22	20.95	1.37
2.967	1.69	8.967	10.98	14.967	2.22	20.97	1.37
2.983	1.69	8.983	10.98	14.983	2.22	20.98	1.37
3.000	1.69	9.000	10.98	15.000	2.22	21.00	1.37
3.017	1.73	9.017	9.62	15.017	2.18	21.02	1.35
3.033	1.73	9.033	9.62	15.033	2.18	21.03	1.35
3.050	1.73	9.050	9.62	15.050	2.18	21.05	1.35
3.067	1.73	9.067	9.62	15.067	2.18	21.07	1.35
3.083	1.73	9.083	9.62	15.083	2.18	21.08	1.35
3.100	1.73	9.100	9.62	15.100	2.18	21.10	1.35
3.117	1.73	9.117	9.62	15.117	2.18	21.12	1.35
3.133	1.73	9.133	9.62	15.133	2.18	21.13	1.35
3.150	1.73	9.150	9.62	15.150	2.18	21.15	1.35
3.167	1.73	9.167	9.62	15.167	2.18	21.17	1.35
3.183	1.78	9.183	8.59	15.183	2.14	21.18	1.34
3.200	1.78	9.200	8.59	15.200	2.14	21.20	1.34
3.217	1.78	9.217	8.59	15.217	2.14	21.22	1.34
3.233	1.78	9.233	8.59	15.233	2.14	21.23	1.34
3.250	1.78	9.250	8.59	15.250	2.14	21.25	1.34
3.267	1.78	9.267	8.59	15.267	2.14	21.27	1.34
3.283	1.78	9.283	8.59	15.283	2.14	21.28	1.34
3.300	1.78	9.300	8.59	15.300	2.14	21.30	1.34
3.317	1.78	9.317	8.59	15.317	2.14	21.32	1.34
3.333	1.78	9.333	8.59	15.333	2.14	21.33	1.34
3.350	1.83	9.350	7.78	15.350	2.11	21.35	1.33
3.367	1.83	9.367	7.78	15.367	2.11	21.37	1.33
3.383	1.83	9.383	7.78	15.383	2.11	21.38	1.33
3.400	1.83	9.400	7.78	15.400	2.11	21.40	1.33
3.417	1.83	9.417	7.78	15.417	2.11	21.42	1.33
3.433	1.83	9.433	7.78	15.433	2.11	21.43	1.33
3.450	1.83	9.450	7.78	15.450	2.11	21.45	1.33
3.467	1.83	9.467	7.78	15.467	2.11	21.47	1.33
3.483	1.83	9.483	7.78	15.483	2.11	21.48	1.33
3.500	1.83	9.500	7.78	15.500	2.11	21.50	1.33
3.517	1.89	9.517	7.12	15.517	2.07	21.52	1.31
3.533	1.89	9.533	7.12	15.533	2.07	21.53	1.31
3.550	1.89	9.550	7.12	15.550	2.07	21.55	1.31
3.567	1.89	9.567	7.12	15.567	2.07	21.57	1.31
3.583	1.89	9.583	7.12	15.583	2.07	21.58	1.31
3.600	1.89	9.600	7.12	15.600	2.07	21.60	1.31
3.617	1.89	9.617	7.12	15.617	2.07	21.62	1.31
3.633	1.89	9.633	7.12	15.633	2.07	21.63	1.31
3.650	1.89	9.650	7.12	15.650	2.07	21.65	1.31
3.667	1.89	9.667	7.12	15.667	2.07	21.67	1.31
3.683	1.95	9.683	6.58	15.683	2.03	21.68	1.30
3.700	1.95	9.700	6.58	15.700	2.03	21.70	1.30
3.717	1.95	9.717	6.58	15.717	2.03	21.72	1.30
3.733	1.95	9.733	6.58	15.733	2.03	21.73	1.30
3.750	1.95	9.750	6.58	15.750	2.03	21.75	1.30
3.767	1.95	9.767	6.58	15.767	2.03	21.77	1.30
3.783	1.95	9.783	6.58	15.783	2.03	21.78	1.30
3.800	1.95	9.800	6.58	15.800	2.03	21.80	1.30
3.817	1.95	9.817	6.58	15.817	2.03	21.82	1.30
3.833	1.95	9.833	6.58	15.833	2.03	21.83	1.30
3.850	2.02	9.850	6.12	15.850	2.00	21.85	1.29
3.867	2.02	9.867	6.12	15.867	2.00	21.87	1.29
3.883	2.02	9.883	6.12	15.883	2.00	21.88	1.29
3.900	2.02	9.900	6.12	15.900	2.00	21.90	1.29
3.917	2.02	9.917	6.12	15.917	2.00	21.92	1.29
3.933	2.02	9.933	6.12	15.933	2.00	21.93	1.29
3.950	2.02	9.950	6.12	15.950	2.00	21.95	1.29
3.967	2.02	9.967	6.12	15.967	2.00	21.97	1.29
3.983	2.02	9.983	6.12	15.983	2.00	21.98	1.29
4.000	2.02	10.000	6.12	16.000	2.00	22.00	1.29
4.017	2.09	10.017	5.73	16.017	1.97	22.02	1.28
4.033	2.09	10.033	5.73	16.033	1.97	22.03	1.28
4.050	2.09	10.050	5.73	16.050	1.97	22.05	1.28
4.067	2.09	10.067	5.73	16.067	1.97	22.07	1.28
4.083	2.09	10.083	5.73	16.083	1.97	22.08	1.28
4.100	2.09	10.100	5.73	16.100	1.97	22.10	1.28
4.117	2.09	10.117	5.73	16.117	1.97	22.12	1.28
4.133	2.09	10.133	5.73	16.133	1.97	22.13	1.28
4.150	2.09	10.150	5.73	16.150	1.97	22.15	1.28
4.167	2.09	10.167	5.73	16.167	1.97	22.17	1.28
4.183	2.16	10.183	5.39	16.183	1.94	22.18	1.26
4.200	2.16	10.200	5.39	16.200	1.94	22.20	1.26
4.217	2.16	10.217	5.39	16.217	1.94	22.22	1.26
4.233	2.16	10.233	5.39	16.233	1.94	22.23	1.26
4.250	2.16	10.250	5.39	16.250	1.94	22.25	1.26
4.267	2.16	10.267	5.39	16.267	1.94	22.27	1.26
4.283	2.16	10.283	5.39	16.283	1.94	22.28	1.26
4.300	2.16	10.300	5.39	16.300	1.94	22.30	1.26
4.317	2.16	10.317	5.39	16.317	1.94	22.32	1.26
4.333	2.16	10.333	5.39	16.333	1.94	22.33	1.26
4.350	2.24	10.350	5.09	16.350	1.91	22.35	1.25
4.367	2.24	10.367	5.09	16.367	1.91	22.37	1.25
4.383	2.24	10.383	5.09	16.383	1.91	22.38	1.25
4.400	2.24	10.400	5.09	16.400	1.91	22.40	1.25
4.417	2.24	10.417	5.09	16.417	1.91	22.42	1.25
4.433	2.24	10.433	5.09	16.433	1.91	22.43	1.25
4.450	2.24	10.450	5.09	16.450	1.91	22.45	1.25
4.467	2.24	10.467	5.09	16.467	1.91	22.47	1.25
4.483	2.24	10.483	5.09	16.483	1.91	22.48	1.25
4.500	2.24	10.500	5.09	16.500	1.91	22.50	1.25
4.517	2.33	10.517	4.83	16.517	1.88	22.52	1.24
4.533	2.33	10.533	4.83	16.533	1.88	22.53	1.24
4.550	2.33	10.550	4.83	16.550	1.88	22.55	1.24
4.567	2.33	10.567	4.83	16.567	1.88	22.57	1.24
4.583	2.33	10.583	4.83	16.583	1.88	22.58	1.24
4.600	2.33	10.600	4.83	16.600	1.88	22.60	1.24
4.617	2.33	10.617	4.83	16.617	1.88	22.62	1.24
4.633	2.33	10.633	4.83	16.633	1.88	22.63	1.24
4.650	2.33	10.650	4.83	16.650	1.88	22.65	1.24
4.667	2.33	10.667	4.83	16.667	1.88	22.67	1.24
4.683	2.43	10.683	4.60	16.683	1.85	22.68	1.23
4.700	2.43	10.700	4.60	16.700	1.85	22.70	1.23
4.717	2.43	10.717	4.60	16.717	1.85	22.72	1.23
4.733	2.43	10.733	4.60	16.733	1.85	22.73	1.23
4.750	2.43	10.750	4.60	16.750	1.85	22.75	1.23
4.767	2.43	10.767	4.60	16.767	1.85	22.77	1.23
4.783	2.43	10.783	4.60	16.783	1.85	22.78	1.23
4.800	2.43	10.800	4.60	16.800	1.85	22.80	1.23
4.817	2.43	10.817	4.60	16.817	1.85	22.82	1.23
4.833	2.43	10.833	4.60	16.833	1.85	22.83	1.23
4.850	2.54	10.850	4.39	16.850	1.82	22.85	1.22
4.867	2.54	10.867	4.39	16.867	1.82	22.87	1.22
4.883	2.54	10.883	4.39	16.883	1.82	22.88	1.22
4.900	2.54	10.900	4.39	16.900	1.82	22.90	1.22
4.917	2.54	10.917	4.39	16.917	1.82	22.92	1.22
4.933	2.54	10.933	4.39	16.933	1.82	22.93	1.22
4.950	2.54	10.950	4.39	16.950	1.82	22.95	1.22
4.967	2.54	10.967	4.39	16.967	1.82	22.97	1.22
4.983	2.54	10.983	4.39	16.983	1.82	22.98	1.22
5.000	2.54	11.000	4.39	17.000	1.82	23.00	1.22
5.017	2.66	11.017	4.20	17.017	1.80	23.02	1.21
5.033	2.66	11.033	4.20	17.033	1.80	23.03	1.21
5.050	2.66	11.050	4.20	17.050	1.80	23.05	1.21
5.067	2.66	11.067	4.20	17.067	1.80	23.07	1.21
5.083	2.66	11.083	4.20	17.083	1.80	23.08	1.21
5.100	2.66	11.100	4.20	17.100	1.80	23.10	1.21
5.117	2.66	11.117	4.20	17.117	1.80	23.12	1.21
5.133	2.66	11.133	4.20	17.133	1.80	23.13	1.21
5.150	2.66	11.150	4.20	17.150	1.80	23.15	1.21
5.167	2.66	11.167	4.20	17.167	1.80	23.17	1.21
5.183	2.79	11.183	4.03	17.183	1.77	23.18	1.20
5.200	2.79	11.200	4.03	17.200	1.77	23.20	1.20
5.217	2.79	11.217	4.03	17.217	1.77	23.22	1.20
5.233	2.79	11.233	4.03	17.233	1.77	23.23	1.20
5.250	2.79	11.250	4.03	17.250	1.77	23.25	1.20
5.267	2.79	11.267	4.03	17.267	1.77	23.27	1.20
5.283	2.79	11.283	4.03	17.283	1.77	23.28	1.20
5.300	2.79	11.300	4.03	17.300	1.77	23.30	1.20
5.317	2.79	11.317	4.03	17.317	1.77	23.32	1.20
5.333	2.79	11.333	4.03	17.333	1.77	23.33	1.20
5.350	2.94	11.350	3.87	17.350	1.75	23.35	1.19
5.367	2.94	11.367	3.87	17.367	1.75	23.37	1.19
5.383	2.94	11.383	3.87	17.383	1.75	23.38	1.19
5.400	2.94	11.400	3.87	17.400	1.75	23.40	1.19
5.417	2.94	11.417	3.87	17.417	1.75	23.42	1.19
5.433	2.94	11.433	3.87	17.433	1.75	23.43	1.19
5.450	2.94	11.450	3.87	17.450	1.75	23.45	1.19
5.467	2.94	11.467	3.87	17.467	1.75	23.47	1.19
5.483	2.94	11.483	3.87	17.483	1.75	23.48	1.19
5.500	2.94	11.500	3.87	17.500	1.75	23.50	1.19
5.517	3.11	11.517	3.73	17.517	1.72	23.52	1.18
5.533	3.11	11.533	3.73	17.533	1.72	23.53	1.18
5.550	3.11	11.550	3.73	17.550	1.72	23.55	1.18
5.567	3.11	11.567	3.73	17.567	1.72	23.57	1.18
5.583	3.11	11.583	3.73	17.583	1.72	23.58	1.18
5.600	3.11	11.600	3.73	17.600	1.72	23.60	1.18
5.617	3.11	11.617	3.73	17.617	1.72	23.62	1.18
5.633	3.11	11.633	3.73	17.633	1.72	23.63	1.18
5.650	3.11	11.650	3.73	17.650	1.72	23.65	1.18
5.667	3.11	11.667	3.73	17.667	1.72	23.67	1.18
5.683	3.31	11.683	3.60	17.683	1.70	23.68	1.17
5.700	3.31	11.700	3.60	17.700	1.70	23.70	1.17
5.717	3.31	11.717	3.60	17.717	1.70	23.72	1.17
5.733	3.31	11.733	3.60	17.733	1.70	23.73	1.17
5.750	3.31	11.750	3.60	17.750	1.70	23.75	1.17
5.767	3.31	11.767	3.60	17.767	1.70	23.77	1.17
5.783	3.31	11.783	3.60	17.783	1.70	23.78	1.17
5.800	3.31	11.800	3.60	17.800	1.70	23.80	1.17
5.817	3.31	11.817	3.60	17.817	1.70	23.82	1.17
5.833	3.31	11.833	3.60	17.833	1.70	23.83	1.17
5.850	3.53	11.850	3.48	17.850	1.68	23.85	1.16
5.867	3.53	11.867	3.48	17.867	1.68	23.87	1.16

5.883	3.53	11.883	3.48	17.883	1.68	23.88	1.16
5.900	3.53	11.900	3.48	17.900	1.68	23.90	1.16
5.917	3.53	11.917	3.48	17.917	1.68	23.92	1.16
5.933	3.53	11.933	3.48	17.933	1.68	23.93	1.16
5.950	3.53	11.950	3.48	17.950	1.68	23.95	1.16
5.967	3.53	11.967	3.48	17.967	1.68	23.97	1.16
5.983	3.53	11.983	3.48	17.983	1.68	23.98	1.16
6.000	3.53	12.000	3.48	18.000	1.68	24.00	1.16

Max.Eff.Inten.(mm/hr)=	174.10	124.59		
over (min)	5.00	4.00		
Storage Coeff. (min)=	2.40 (ii)	3.30 (ii)		
Unit Hyd. Tpeak (min)=	5.00	4.00		
Unit Hyd. peak (cms)=	0.34	0.32		
			TOTALS	
PEAK FLOW (cms)=	1.18	0.01	1.188 (iii)	
TIME TO PEAK (hrs)=	8.00	8.02	8.00	
RUNOFF VOLUME (mm)=	121.40	84.96	121.04	
TOTAL RAINFALL (mm)=	122.41	122.41	122.41	
RUNOFF COEFFICIENT =	0.99	0.69	0.99	

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 85.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0012)				
1 + 2 = 3	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0010):	15.53	6.334	8.02	117.76
+ ID2= 2 (0013):	2.56	1.188	8.00	121.04
ID = 3 (0012):	18.09	7.504	8.02	118.23

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

RESERVOIR(0011)	OVERFLOW IS OFF			
IN= 2---> OUT= 1				
DT= 1.0 min	OUTFLOW	STORAGE	OUTFLOW	STORAGE
	(cms)	(ha.m.)	(cms)	(ha.m.)
	0.0000	0.0000	2.8110	0.4813
	0.0590	0.3542	3.2550	0.5511
	1.5560	0.3695	4.0320	0.5885
	2.2770	0.4312	4.6420	0.6202

	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
INFLOW : ID= 2 (0012)	18.090	7.504	8.02	118.23
OUTFLOW: ID= 1 (0011)	18.090	4.629	8.12	106.96

PEAK FLOW REDUCTION [Qout/Qin](%)= 61.69
TIME SHIFT OF PEAK FLOW (min)= 6.00
MAXIMUM STORAGE USED (ha.m.)= 0.6202

```
================================================================================
=========================


       V    V   I    SSSSS  U   U    A    L              (v 6.2.2019)
       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

        OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
       O   O    T      T    H   H   Y Y   MM MM  O   O
       O   O    T      T    H   H    Y    M   M  O   O
        OOO     T      T    H   H    Y    M   M   OOO
Developed and Distributed by Smart City Water Inc
Copyright 2007 - 2022 Smart City Water Inc
All rights reserved.


                  *****  S U M M A R Y   O U T P U T  *****


  Input   filename: C:\Program Files (x86)\Visual OTTHYMO 6.2\VO2\voin.dat

  Output  filename:
C:\Users\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\1c1582
7f-23ea-4111-a027-3d89b26e205c\scenari
  Summary filename:
C:\Users\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\1c1582
7f-23ea-4111-a027-3d89b26e205c\scenari


DATE: 01-27-2026                          TIME: 01:43:14

USER:


COMMENTS: _____________________________________________________________


  ************************************************
  ** SIMULATION : 1 - 25MM4HRC_10min Edited 201 **
  ************************************************

  W/E COMMAND             HYD ID   DT    AREA  ' Qpeak Tpeak   R.V. R.C.   Qbase
                                   min     ha   '  cms   hrs     mm          cms

      START @  0.00 hrs
      --------------------
    READ STORM                10.0
```

```
    [ Ptot= 25.00 mm ]
    fname :
C:\Users\kong\AppData\Local\Temp\7ecefdc7-37f7-4b7e-b187-d3f313fb54da\cb44d379-39a
8-4907-8998-c426d2
    remark: 25MM4HRC_10min Edited 2012

*
 ** CALIB STANDHYD       0010  1  1.0   15.53    1.45  1.55  22.21 0.89   0.000
    [I%=90.0:S%= 2.00]
*
    READ STORM                10.0
    [ Ptot= 25.00 mm ]
    fname :
C:\Users\kong\AppData\Local\Temp\7ecefdc7-37f7-4b7e-b187-d3f313fb54da\cb44d379-39a
8-4907-8998-c426d2
    remark: 25MM4HRC_10min Edited 2012

*
 ** CALIB STANDHYD       0013  1  1.0    2.56    0.31  1.52  23.82 0.95   0.000
    [I%=99.0:S%= 2.00]
*
    ADD [  0010+  0013]  0012  3  1.0   18.09    1.75  1.53  22.44  n/a   0.000
*
 ** Reservoir
    OUTFLOW:              0011  1  1.0   18.09    0.06  4.12  19.02  n/a   0.000
*
================================================================================
=========================


       V    V   I    SSSSS  U   U    A    L              (v 6.2.2019)
       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

        OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
       O   O    T      T    H   H   Y Y   MM MM  O   O
       O   O    T      T    H   H    Y    M   M  O   O
        OOO     T      T    H   H    Y    M   M   OOO
Developed and Distributed by Smart City Water Inc
Copyright 2007 - 2022 Smart City Water Inc
All rights reserved.


                  *****  S U M M A R Y   O U T P U T  *****


  Input   filename: C:\Program Files (x86)\Visual OTTHYMO 6.2\VO2\voin.dat
```

```
  Output  filename:
C:\Users\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\0df9a5
f6-866f-41de-b2e6-c5a14d7b13e0\scenari
  Summary filename:
C:\Users\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\0df9a5
f6-866f-41de-b2e6-c5a14d7b13e0\scenari


DATE: 01-27-2026                          TIME: 01:43:13

USER:


COMMENTS: _____________________________________________________________


  ************************************************
  ** SIMULATION : 2 - 2-Year 24hr Chic - Milton **
  ************************************************

  W/E COMMAND             HYD ID   DT    AREA  ' Qpeak Tpeak   R.V. R.C.   Qbase
                                   min     ha   '  cms   hrs     mm          cms

      START @  0.00 hrs
      --------------------
    CHIC STORM                10.0
    [ Ptot= 47.70 mm ]
*
 ** CALIB STANDHYD       0010  1  1.0   15.53    2.55  8.03  44.11 0.92   0.000
    [I%=90.0:S%= 2.00]
*
    CHIC STORM                10.0
    [ Ptot= 47.70 mm ]
*
 ** CALIB STANDHYD       0013  1  1.0    2.56    0.52  8.00  46.44 0.97   0.000
    [I%=99.0:S%= 2.00]
*
    ADD [  0010+  0013]  0012  3  1.0   18.09    3.05  8.03  44.44  n/a   0.000
*
 ** Reservoir
    OUTFLOW:              0011  1  1.0   18.09    1.55  8.20  36.26  n/a   0.000
*
================================================================================
=========================


       V    V   I    SSSSS  U   U    A    L              (v 6.2.2019)
       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

        OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
       O   O    T      T    H   H   Y Y   MM MM  O   O
       O   O    T      T    H   H    Y    M   M  O   O
        OOO     T      T    H   H    Y    M   M   OOO
Developed and Distributed by Smart City Water Inc
Copyright 2007 - 2022 Smart City Water Inc
All rights reserved.


                  *****  S U M M A R Y   O U T P U T  *****


  Input   filename: C:\Program Files (x86)\Visual OTTHYMO 6.2\VO2\voin.dat

  Output  filename:
C:\Users\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\277dd6
8a-7ca5-4abc-b4a2-d83b13c0c469\scenari
  Summary filename:
C:\Users\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\277dd6
8a-7ca5-4abc-b4a2-d83b13c0c469\scenari


DATE: 01-27-2026                          TIME: 01:43:14

USER:


COMMENTS: _____________________________________________________________


  ************************************************
  ** SIMULATION : 3 - 5-Year 24hr Chic- Milton  **
  ************************************************

  W/E COMMAND             HYD ID   DT    AREA  ' Qpeak Tpeak   R.V. R.C.   Qbase
                                   min     ha   '  cms   hrs     mm          cms

      START @  0.00 hrs
      --------------------
    CHIC STORM                10.0
    [ Ptot= 67.05 mm ]
*
 ** CALIB STANDHYD       0010  1  1.0   15.53    3.56  8.02  63.04 0.94   0.000
    [I%=90.0:S%= 2.00]
*
    CHIC STORM                10.0
    [ Ptot= 67.05 mm ]
*
```

```
 ** CALIB STANDHYD       0013  1  1.0    2.56    0.70  8.00  65.75 0.98   0.000
    [I%=99.0:S%= 2.00]
*
    ADD [  0010+  0013]  0012  3  1.0   18.09    4.25  8.02  63.43  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             0011  1  1.0   18.09    2.28  8.15  53.96  n/a   0.000
*
================================================================================
========================


       V    V   I    SSSSS  U   U    A    L              (v 6.2.2019)
       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

        OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
       O   O    T      T    H   H   Y Y   MM MM  O   O
       O   O    T      T    H   H    Y    M   M  O   O
        OOO     T      T    H   H    Y    M   M   OOO
Developed and Distributed by Smart City Water Inc
Copyright 2007 - 2022 Smart City Water Inc
All rights reserved.


                  *****  S U M M A R Y   O U T P U T  *****


  Input   filename: C:\Program Files (x86)\Visual OTTHYMO 6.2\VO2\voin.dat

  Output  filename:
C:\Users\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\ef4708
e3-322e-4088-93b8-6c58dd9f6e33\scenari
  Summary filename:
C:\Users\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\ef4708
e3-322e-4088-93b8-6c58dd9f6e33\scenari


DATE: 01-27-2026                          TIME: 01:43:14

USER:


COMMENTS: _____________________________________________________________


  ************************************************
  ** SIMULATION : 4 - 10-Year 24hr Chic - Milto **
```

```
07-8668-400e-a623-66d1b8577746\scenari
  Summary filename:
C:\Users\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\dabaa9
07-8668-400e-a623-66d1b8577746\scenari


DATE: 01-27-2026                          TIME: 01:43:14

USER:


COMMENTS: _____________________________________________________________


  ************************************************
  ** SIMULATION : 5 - 25-Year 24hr Chic - Milto **
  ************************************************

  W/E COMMAND             HYD ID   DT    AREA  ' Qpeak Tpeak   R.V. R.C.   Qbase
                                   min     ha   '  cms   hrs     mm          cms

     START @  0.00 hrs
     --------------------
    CHIC STORM                10.0
    [ Ptot= 97.01 mm ]
*
 ** CALIB STANDHYD       0010  1  1.0   15.53    5.06  8.02  92.59 0.95   0.000
    [I%=90.0:S%= 2.00]
*
    CHIC STORM                10.0
    [ Ptot= 97.01 mm ]
*
 ** CALIB STANDHYD       0013  1  1.0    2.56    0.97  8.00  95.66 0.99   0.000
    [I%=99.0:S%= 2.00]
*
    ADD [  0010+  0013]  0012  3  1.0   18.09    6.01  8.02  93.03  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             0011  1  1.0   18.09    3.25  8.13  82.22  n/a   0.000
*
 FINISH

================================================================================
========================

================================================================================
========================


       V    V   I    SSSSS  U   U    A    L              (v 6.2.2019)
```

```
  ************************************************

  W/E COMMAND             HYD ID   DT    AREA  ' Qpeak Tpeak   R.V. R.C.   Qbase
                                   min     ha   '  cms   hrs     mm          cms

     START @  0.00 hrs
     --------------------
    CHIC STORM                10.0
    [ Ptot= 80.06 mm ]
*
 ** CALIB STANDHYD       0010  1  1.0   15.53    4.21  8.02  75.85 0.95   0.000
    [I%=90.0:S%= 2.00]
*
    CHIC STORM                10.0
    [ Ptot= 80.06 mm ]
*
 ** CALIB STANDHYD       0013  1  1.0    2.56    0.82  8.00  78.73 0.98   0.000
    [I%=99.0:S%= 2.00]
*
    ADD [  0010+  0013]  0012  3  1.0   18.09    5.02  8.02  76.26  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             0011  1  1.0   18.09    2.81  8.13  66.13  n/a   0.000
*
================================================================================
========================


       V    V   I    SSSSS  U   U    A    L              (v 6.2.2019)
       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

        OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
       O   O    T      T    H   H   Y Y   MM MM  O   O
       O   O    T      T    H   H    Y    M   M  O   O
        OOO     T      T    H   H    Y    M   M   OOO
Developed and Distributed by Smart City Water Inc
Copyright 2007 - 2022 Smart City Water Inc
All rights reserved.


                  *****  S U M M A R Y   O U T P U T  *****


  Input   filename: C:\Program Files (x86)\Visual OTTHYMO 6.2\VO2\voin.dat

  Output  filename:
C:\Users\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\dabaa9
```

```
       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

        OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
       O   O    T      T    H   H   Y Y   MM MM  O   O
       O   O    T      T    H   H    Y    M   M  O   O
        OOO     T      T    H   H    Y    M   M   OOO
Developed and Distributed by Smart City Water Inc
Copyright 2007 - 2022 Smart City Water Inc
All rights reserved.


                  *****  S U M M A R Y   O U T P U T  *****


  Input   filename: C:\Program Files (x86)\Visual OTTHYMO 6.2\VO2\voin.dat

  Output  filename:
C:\Users\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\996e83
f8-b648-4675-94a9-f8a5826c9a8e\scenari
  Summary filename:
C:\Users\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\996e83
f8-b648-4675-94a9-f8a5826c9a8e\scenari


DATE: 01-27-2026                          TIME: 01:43:14

USER:


COMMENTS: _____________________________________________________________


  ************************************************
  ** SIMULATION : 6 - 50-Year 24hr Chic - Milto **
  ************************************************

  W/E COMMAND             HYD ID   DT    AREA  ' Qpeak Tpeak   R.V. R.C.   Qbase
                                   min     ha   '  cms   hrs     mm          cms

     START @  0.00 hrs
     --------------------
    CHIC STORM                10.0
    [ Ptot=110.01 mm ]
*
 ** CALIB STANDHYD       0010  1  1.0   15.53    5.69  8.02 105.47 0.96   0.000
    [I%=90.0:S%= 2.00]
*
```

```
    CHIC STORM                10.0
    [ Ptot=110.01 mm ]
*
 ** CALIB STANDHYD       0013  1  1.0    2.56    1.07  8.00 108.65 0.99   0.000
    [I%=99.0:S%= 2.00]
*
    ADD [  0010+  0013]  0012  3  1.0   18.09    6.75  8.02 105.92  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             0011  1  1.0   18.09    4.03  8.12  94.77  n/a   0.000
*
================================================================================
========================


       V    V   I    SSSSS  U   U    A    L              (v 6.2.2019)
       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

        OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
       O   O    T      T    H   H   Y Y   MM MM  O   O
       O   O    T      T    H   H    Y    M   M  O   O
        OOO     T      T    H   H    Y    M   M   OOO
Developed and Distributed by Smart City Water Inc
Copyright 2007 - 2022 Smart City Water Inc
All rights reserved.


                  *****  S U M M A R Y   O U T P U T  *****


  Input   filename: C:\Program Files (x86)\Visual OTTHYMO 6.2\VO2\voin.dat

  Output  filename:
C:\Users\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\52e1c4
5c-38f7-4a61-965a-dc6a3659fbbd\scenari
  Summary filename:
C:\Users\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\52e1c4
5c-38f7-4a61-965a-dc6a3659fbbd\scenari


DATE: 01-27-2026                          TIME: 01:43:13

USER:


COMMENTS: _____________________________________________________________
```

```
  ************************************************
  ** SIMULATION : 7 - 100-year 24hr Chic - Milt **
  ************************************************

  W/E COMMAND             HYD ID   DT    AREA  ' Qpeak Tpeak   R.V. R.C.   Qbase
                                  min     ha   '  cms   hrs     mm          cms


      START @  0.00 hrs
      --------------------
    CHIC STORM                10.0
    [ Ptot=122.41 mm ]
*
 ** CALIB STANDHYD       0010  1  1.0   15.53    6.33  8.02 117.76 0.96   0.000
    [I%=90.0:S%= 2.00]
*
    CHIC STORM                10.0
    [ Ptot=122.41 mm ]
*
 ** CALIB STANDHYD       0013  1  1.0    2.56    1.19  8.00 121.04 0.99   0.000
    [I%=99.0:S%= 2.00]
*
    ADD [  0010+  0013]  0012  3  1.0   18.09    7.50  8.02 118.23  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             0011  1  1.0   18.09    4.63  8.12 106.96  n/a   0.000
*
```

```
================================================================================
=========================

       V    V   I    SSSSS  U   U    A    L              (v 6.2.2019)
       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

        OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
       O   O    T      T    H   H   Y Y   MM MM  O   O
       O   O    T      T    H   H    Y    M M M  O   O
        OOO     T      T    H   H    Y    M   M   OOO
Developed and Distributed by Smart City Water Inc
Copyright 2007 - 2022 Smart City Water Inc
All rights reserved.


                  *****  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\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\5d5c13
58-fe67-469d-bd30-25a5eb5cbd2a\scenari
  Summary filename:
C:\Users\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\5d5c13
58-fe67-469d-bd30-25a5eb5cbd2a\scenari


DATE: 01-27-2026                          TIME: 01:46:13

USER:



COMMENTS: _____________________________________________________


--------------------------------------------------------------------------------
-------------------------
  ************************************************
  ** SIMULATION : Hazel                         **
  ************************************************


--------------------
|    READ STORM    |    Filename: C:\Users\kong\AppD
|                  |              ata\Local\Temp\
|                  |              313c7de9-72da-46da-8f95-85b2d7552f32\008167ef
| Ptotal=212.00 mm |    Comments: HAZEL
--------------------
                TIME    RAIN |  TIME    RAIN |'  TIME    RAIN |  TIME    RAIN
                 hrs   mm/hr |   hrs   mm/hr |'   hrs   mm/hr |   hrs   mm/hr
               0.00    6.00 |  3.00   13.00 |  6.00   23.00 |  9.00   53.00
               1.00    4.00 |  4.00   17.00 |  7.00   13.00 | 10.00   38.00
               2.00    6.00 |  5.00   13.00 |  8.00   13.00 | 11.00   13.00

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


--------------------
| CALIB            |
| STANDHYD (  0002)|   Area    (ha)=  15.53
|ID= 1 DT= 1.0 min |   Total Imp(%)=  90.00   Dir. Conn.(%)=  90.00
--------------------
                                IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=      13.98         1.55
     Dep. Storage     (mm)=       1.00         0.00
     Average Slope     (%)=       1.00         2.00
     Length            (m)=     321.77        40.00
     Mannings n            =      0.013        0.250

         NOTE:  RAINFALL WAS TRANSFORMED TO   1.0 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
               0.017    6.00 | 3.017   13.00 | 6.017   23.00 |  9.02   53.00
               0.033    6.00 | 3.033   13.00 | 6.033   23.00 |  9.03   53.00
               0.050    6.00 | 3.050   13.00 | 6.050   23.00 |  9.05   53.00
               0.067    6.00 | 3.067   13.00 | 6.067   23.00 |  9.07   53.00
               0.083    6.00 | 3.083   13.00 | 6.083   23.00 |  9.08   53.00
               0.100    6.00 | 3.100   13.00 | 6.100   23.00 |  9.10   53.00
               0.117    6.00 | 3.117   13.00 | 6.117   23.00 |  9.12   53.00
               0.133    6.00 | 3.133   13.00 | 6.133   23.00 |  9.13   53.00
               0.150    6.00 | 3.150   13.00 | 6.150   23.00 |  9.15   53.00
               0.167    6.00 | 3.167   13.00 | 6.167   23.00 |  9.17   53.00
               0.183    6.00 | 3.183   13.00 | 6.183   23.00 |  9.18   53.00
               0.200    6.00 | 3.200   13.00 | 6.200   23.00 |  9.20   53.00
               0.217    6.00 | 3.217   13.00 | 6.217   23.00 |  9.22   53.00
               0.233    6.00 | 3.233   13.00 | 6.233   23.00 |  9.23   53.00
               0.250    6.00 | 3.250   13.00 | 6.250   23.00 |  9.25   53.00
               0.267    6.00 | 3.267   13.00 | 6.267   23.00 |  9.27   53.00
               0.283    6.00 | 3.283   13.00 | 6.283   23.00 |  9.28   53.00
               0.300    6.00 | 3.300   13.00 | 6.300   23.00 |  9.30   53.00
               0.317    6.00 | 3.317   13.00 | 6.317   23.00 |  9.32   53.00
               0.333    6.00 | 3.333   13.00 | 6.333   23.00 |  9.33   53.00
               0.350    6.00 | 3.350   13.00 | 6.350   23.00 |  9.35   53.00
               0.367    6.00 | 3.367   13.00 | 6.367   23.00 |  9.37   53.00
               0.383    6.00 | 3.383   13.00 | 6.383   23.00 |  9.38   53.00
               0.400    6.00 | 3.400   13.00 | 6.400   23.00 |  9.40   53.00
               0.417    6.00 | 3.417   13.00 | 6.417   23.00 |  9.42   53.00
               0.433    6.00 | 3.433   13.00 | 6.433   23.00 |  9.43   53.00
               0.450    6.00 | 3.450   13.00 | 6.450   23.00 |  9.45   53.00
               0.467    6.00 | 3.467   13.00 | 6.467   23.00 |  9.47   53.00
               0.483    6.00 | 3.483   13.00 | 6.483   23.00 |  9.48   53.00
               0.500    6.00 | 3.500   13.00 | 6.500   23.00 |  9.50   53.00
               0.517    6.00 | 3.517   13.00 | 6.517   23.00 |  9.52   53.00
               0.533    6.00 | 3.533   13.00 | 6.533   23.00 |  9.53   53.00
               0.550    6.00 | 3.550   13.00 | 6.550   23.00 |  9.55   53.00
               0.567    6.00 | 3.567   13.00 | 6.567   23.00 |  9.57   53.00
               0.583    6.00 | 3.583   13.00 | 6.583   23.00 |  9.58   53.00
               0.600    6.00 | 3.600   13.00 | 6.600   23.00 |  9.60   53.00
               0.617    6.00 | 3.617   13.00 | 6.617   23.00 |  9.62   53.00
               0.633    6.00 | 3.633   13.00 | 6.633   23.00 |  9.63   53.00
               0.650    6.00 | 3.650   13.00 | 6.650   23.00 |  9.65   53.00
               0.667    6.00 | 3.667   13.00 | 6.667   23.00 |  9.67   53.00
               0.683    6.00 | 3.683   13.00 | 6.683   23.00 |  9.68   53.00
               0.700    6.00 | 3.700   13.00 | 6.700   23.00 |  9.70   53.00
               0.717    6.00 | 3.717   13.00 | 6.717   23.00 |  9.72   53.00
               0.733    6.00 | 3.733   13.00 | 6.733   23.00 |  9.73   53.00
               0.750    6.00 | 3.750   13.00 | 6.750   23.00 |  9.75   53.00
               0.767    6.00 | 3.767   13.00 | 6.767   23.00 |  9.77   53.00
               0.783    6.00 | 3.783   13.00 | 6.783   23.00 |  9.78   53.00
               0.800    6.00 | 3.800   13.00 | 6.800   23.00 |  9.80   53.00
               0.817    6.00 | 3.817   13.00 | 6.817   23.00 |  9.82   53.00
               0.833    6.00 | 3.833   13.00 | 6.833   23.00 |  9.83   53.00
               0.850    6.00 | 3.850   13.00 | 6.850   23.00 |  9.85   53.00
               0.867    6.00 | 3.867   13.00 | 6.867   23.00 |  9.87   53.00
               0.883    6.00 | 3.883   13.00 | 6.883   23.00 |  9.88   53.00
               0.900    6.00 | 3.900   13.00 | 6.900   23.00 |  9.90   53.00
               0.917    6.00 | 3.917   13.00 | 6.917   23.00 |  9.92   53.00
               0.933    6.00 | 3.933   13.00 | 6.933   23.00 |  9.93   53.00
               0.950    6.00 | 3.950   13.00 | 6.950   23.00 |  9.95   53.00
               0.967    6.00 | 3.967   13.00 | 6.967   23.00 |  9.97   53.00
               0.983    6.00 | 3.983   13.00 | 6.983   23.00 |  9.98   53.00
               1.000    6.00 | 4.000   13.00 | 7.000   22.98 | 10.00   52.98
               1.017    4.00 | 4.017   17.00 | 7.017   13.00 | 10.02   38.00
               1.033    4.00 | 4.033   17.00 | 7.033   13.00 | 10.03   38.00
               1.050    4.00 | 4.050   17.00 | 7.050   13.00 | 10.05   38.00
               1.067    4.00 | 4.067   17.00 | 7.067   13.00 | 10.07   38.00
               1.083    4.00 | 4.083   17.00 | 7.083   13.00 | 10.08   38.00
               1.100    4.00 | 4.100   17.00 | 7.100   13.00 | 10.10   38.00
               1.117    4.00 | 4.117   17.00 | 7.117   13.00 | 10.12   38.00
               1.133    4.00 | 4.133   17.00 | 7.133   13.00 | 10.13   38.00
               1.150    4.00 | 4.150   17.00 | 7.150   13.00 | 10.15   38.00
               1.167    4.00 | 4.167   17.00 | 7.167   13.00 | 10.17   38.00
               1.183    4.00 | 4.183   17.00 | 7.183   13.00 | 10.18   38.00
               1.200    4.00 | 4.200   17.00 | 7.200   13.00 | 10.20   38.00
               1.217    4.00 | 4.217   17.00 | 7.217   13.00 | 10.22   38.00
               1.233    4.00 | 4.233   17.00 | 7.233   13.00 | 10.23   38.00
               1.250    4.00 | 4.250   17.00 | 7.250   13.00 | 10.25   38.00
               1.267    4.00 | 4.267   17.00 | 7.267   13.00 | 10.27   38.00
               1.283    4.00 | 4.283   17.00 | 7.283   13.00 | 10.28   38.00
               1.300    4.00 | 4.300   17.00 | 7.300   13.00 | 10.30   38.00
               1.317    4.00 | 4.317   17.00 | 7.317   13.00 | 10.32   38.00
               1.333    4.00 | 4.333   17.00 | 7.333   13.00 | 10.33   38.00
               1.350    4.00 | 4.350   17.00 | 7.350   13.00 | 10.35   38.00
               1.367    4.00 | 4.367   17.00 | 7.367   13.00 | 10.37   38.00
               1.383    4.00 | 4.383   17.00 | 7.383   13.00 | 10.38   38.00
               1.400    4.00 | 4.400   17.00 | 7.400   13.00 | 10.40   38.00
               1.417    4.00 | 4.417   17.00 | 7.417   13.00 | 10.42   38.00
               1.433    4.00 | 4.433   17.00 | 7.433   13.00 | 10.43   38.00
               1.450    4.00 | 4.450   17.00 | 7.450   13.00 | 10.45   38.00
               1.467    4.00 | 4.467   17.00 | 7.467   13.00 | 10.47   38.00
               1.483    4.00 | 4.483   17.00 | 7.483   13.00 | 10.48   38.00
               1.500    4.00 | 4.500   17.00 | 7.500   13.00 | 10.50   38.00
               1.517    4.00 | 4.517   17.00 | 7.517   13.00 | 10.52   38.00
               1.533    4.00 | 4.533   17.00 | 7.533   13.00 | 10.53   38.00
               1.550    4.00 | 4.550   17.00 | 7.550   13.00 | 10.55   38.00
               1.567    4.00 | 4.567   17.00 | 7.567   13.00 | 10.57   38.00
               1.583    4.00 | 4.583   17.00 | 7.583   13.00 | 10.58   38.00
               1.600    4.00 | 4.600   17.00 | 7.600   13.00 | 10.60   38.00
               1.617    4.00 | 4.617   17.00 | 7.617   13.00 | 10.62   38.00
               1.633    4.00 | 4.633   17.00 | 7.633   13.00 | 10.63   38.00
               1.650    4.00 | 4.650   17.00 | 7.650   13.00 | 10.65   38.00
               1.667    4.00 | 4.667   17.00 | 7.667   13.00 | 10.67   38.00
               1.683    4.00 | 4.683   17.00 | 7.683   13.00 | 10.68   38.00
               1.700    4.00 | 4.700   17.00 | 7.700   13.00 | 10.70   38.00
               1.717    4.00 | 4.717   17.00 | 7.717   13.00 | 10.72   38.00
               1.733    4.00 | 4.733   17.00 | 7.733   13.00 | 10.73   38.00
               1.750    4.00 | 4.750   17.00 | 7.750   13.00 | 10.75   38.00
               1.767    4.00 | 4.767   17.00 | 7.767   13.00 | 10.77   38.00
               1.783    4.00 | 4.783   17.00 | 7.783   13.00 | 10.78   38.00
               1.800    4.00 | 4.800   17.00 | 7.800   13.00 | 10.80   38.00
               1.817    4.00 | 4.817   17.00 | 7.817   13.00 | 10.82   38.00
               1.833    4.00 | 4.833   17.00 | 7.833   13.00 | 10.83   38.00
               1.850    4.00 | 4.850   17.00 | 7.850   13.00 | 10.85   38.00
               1.867    4.00 | 4.867   17.00 | 7.867   13.00 | 10.87   38.00
               1.883    4.00 | 4.883   17.00 | 7.883   13.00 | 10.88   38.00
               1.900    4.00 | 4.900   17.00 | 7.900   13.00 | 10.90   38.00
               1.917    4.00 | 4.917   17.00 | 7.917   13.00 | 10.92   38.00
               1.933    4.00 | 4.933   17.00 | 7.933   13.00 | 10.93   38.00
               1.950    4.00 | 4.950   17.00 | 7.950   13.00 | 10.95   38.00
               1.967    4.00 | 4.967   17.00 | 7.967   13.00 | 10.97   38.00
               1.983    4.00 | 4.983   17.00 | 7.983   13.00 | 10.98   38.00
               2.000    4.00 | 5.000   17.00 | 8.000   13.00 | 11.00   37.99
               2.017    6.00 | 5.017   13.00 | 8.017   13.00 | 11.02   13.00
```

2.033	6.00	5.033	13.00	8.033	13.00	11.03	13.00
2.050	6.00	5.050	13.00	8.050	13.00	11.05	13.00
2.067	6.00	5.067	13.00	8.067	13.00	11.07	13.00
2.083	6.00	5.083	13.00	8.083	13.00	11.08	13.00
2.100	6.00	5.100	13.00	8.100	13.00	11.10	13.00
2.117	6.00	5.117	13.00	8.117	13.00	11.12	13.00
2.133	6.00	5.133	13.00	8.133	13.00	11.13	13.00
2.150	6.00	5.150	13.00	8.150	13.00	11.15	13.00
2.167	6.00	5.167	13.00	8.167	13.00	11.17	13.00
2.183	6.00	5.183	13.00	8.183	13.00	11.18	13.00
2.200	6.00	5.200	13.00	8.200	13.00	11.20	13.00
2.217	6.00	5.217	13.00	8.217	13.00	11.22	13.00
2.233	6.00	5.233	13.00	8.233	13.00	11.23	13.00
2.250	6.00	5.250	13.00	8.250	13.00	11.25	13.00
2.267	6.00	5.267	13.00	8.267	13.00	11.27	13.00
2.283	6.00	5.283	13.00	8.283	13.00	11.28	13.00
2.300	6.00	5.300	13.00	8.300	13.00	11.30	13.00
2.317	6.00	5.317	13.00	8.317	13.00	11.32	13.00
2.333	6.00	5.333	13.00	8.333	13.00	11.33	13.00
2.350	6.00	5.350	13.00	8.350	13.00	11.35	13.00
2.367	6.00	5.367	13.00	8.367	13.00	11.37	13.00
2.383	6.00	5.383	13.00	8.383	13.00	11.38	13.00
2.400	6.00	5.400	13.00	8.400	13.00	11.40	13.00
2.417	6.00	5.417	13.00	8.417	13.00	11.42	13.00
2.433	6.00	5.433	13.00	8.433	13.00	11.43	13.00
2.450	6.00	5.450	13.00	8.450	13.00	11.45	13.00
2.467	6.00	5.467	13.00	8.467	13.00	11.47	13.00
2.483	6.00	5.483	13.00	8.483	13.00	11.48	13.00
2.500	6.00	5.500	13.00	8.500	13.00	11.50	13.00
2.517	6.00	5.517	13.00	8.517	13.00	11.52	13.00
2.533	6.00	5.533	13.00	8.533	13.00	11.53	13.00
2.550	6.00	5.550	13.00	8.550	13.00	11.55	13.00
2.567	6.00	5.567	13.00	8.567	13.00	11.57	13.00
2.583	6.00	5.583	13.00	8.583	13.00	11.58	13.00
2.600	6.00	5.600	13.00	8.600	13.00	11.60	13.00
2.617	6.00	5.617	13.00	8.617	13.00	11.62	13.00
2.633	6.00	5.633	13.00	8.633	13.00	11.63	13.00
2.650	6.00	5.650	13.00	8.650	13.00	11.65	13.00
2.667	6.00	5.667	13.00	8.667	13.00	11.67	13.00
2.683	6.00	5.683	13.00	8.683	13.00	11.68	13.00
2.700	6.00	5.700	13.00	8.700	13.00	11.70	13.00
2.717	6.00	5.717	13.00	8.717	13.00	11.72	13.00
2.733	6.00	5.733	13.00	8.733	13.00	11.73	13.00
2.750	6.00	5.750	13.00	8.750	13.00	11.75	13.00
2.767	6.00	5.767	13.00	8.767	13.00	11.77	13.00
2.783	6.00	5.783	13.00	8.783	13.00	11.78	13.00
2.800	6.00	5.800	13.00	8.800	13.00	11.80	13.00
2.817	6.00	5.817	13.00	8.817	13.00	11.82	13.00
2.833	6.00	5.833	13.00	8.833	13.00	11.83	13.00
2.850	6.00	5.850	13.00	8.850	13.00	11.85	13.00
2.867	6.00	5.867	13.00	8.867	13.00	11.87	13.00
2.883	6.00	5.883	13.00	8.883	13.00	11.88	13.00
2.900	6.00	5.900	13.00	8.900	13.00	11.90	13.00
2.917	6.00	5.917	13.00	8.917	13.00	11.92	13.00
2.933	6.00	5.933	13.00	8.933	13.00	11.93	13.00
2.950	6.00	5.950	13.00	8.950	13.00	11.95	13.00
2.967	6.00	5.967	13.00	8.967	13.00	11.97	13.00
2.983	6.00	5.983	13.00	8.983	13.00	11.98	13.00
3.000	6.00	6.000	13.01	9.000	13.08	12.00	13.00

Max.Eff.Inten.(mm/hr)=	53.00	52.53	
over (min)	7.00	11.00	
Storage Coeff. (min)=	6.64 (ii)	10.42 (ii)	
Unit Hyd. Tpeak (min)=	7.00	11.00	
Unit Hyd. peak (cms)=	0.17	0.11	
			TOTALS
PEAK FLOW (cms)=	2.06	0.23	2.283 (iii)
TIME TO PEAK (hrs)=	10.00	10.00	10.00
RUNOFF VOLUME (mm)=	210.99	196.92	209.59
TOTAL RAINFALL (mm)=	212.00	212.00	212.00
RUNOFF COEFFICIENT =	1.00	0.93	0.99

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 94.0 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	
STANDHYD (0007)	Area (ha)= 2.56
ID= 1 DT= 1.0 min	Total Imp(%)= 99.00 Dir. Conn.(%)= 99.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	2.53	0.03
Dep. Storage	(mm)=	1.00	0.00
Average Slope	(%)=	1.00	2.00
Length	(m)=	130.64	40.00
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 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
0.017	6.00	3.017	13.00	6.017	23.00	9.02	53.00
0.033	6.00	3.033	13.00	6.033	23.00	9.03	53.00
0.050	6.00	3.050	13.00	6.050	23.00	9.05	53.00
0.067	6.00	3.067	13.00	6.067	23.00	9.07	53.00
0.083	6.00	3.083	13.00	6.083	23.00	9.08	53.00
0.100	6.00	3.100	13.00	6.100	23.00	9.10	53.00
0.117	6.00	3.117	13.00	6.117	23.00	9.12	53.00
0.133	6.00	3.133	13.00	6.133	23.00	9.13	53.00
0.150	6.00	3.150	13.00	6.150	23.00	9.15	53.00
0.167	6.00	3.167	13.00	6.167	23.00	9.17	53.00
0.183	6.00	3.183	13.00	6.183	23.00	9.18	53.00
0.200	6.00	3.200	13.00	6.200	23.00	9.20	53.00
0.217	6.00	3.217	13.00	6.217	23.00	9.22	53.00
0.233	6.00	3.233	13.00	6.233	23.00	9.23	53.00
0.250	6.00	3.250	13.00	6.250	23.00	9.25	53.00
0.267	6.00	3.267	13.00	6.267	23.00	9.27	53.00
0.283	6.00	3.283	13.00	6.283	23.00	9.28	53.00
0.300	6.00	3.300	13.00	6.300	23.00	9.30	53.00
0.317	6.00	3.317	13.00	6.317	23.00	9.32	53.00
0.333	6.00	3.333	13.00	6.333	23.00	9.33	53.00
0.350	6.00	3.350	13.00	6.350	23.00	9.35	53.00
0.367	6.00	3.367	13.00	6.367	23.00	9.37	53.00
0.383	6.00	3.383	13.00	6.383	23.00	9.38	53.00
0.400	6.00	3.400	13.00	6.400	23.00	9.40	53.00
0.417	6.00	3.417	13.00	6.417	23.00	9.42	53.00
0.433	6.00	3.433	13.00	6.433	23.00	9.43	53.00
0.450	6.00	3.450	13.00	6.450	23.00	9.45	53.00
0.467	6.00	3.467	13.00	6.467	23.00	9.47	53.00
0.483	6.00	3.483	13.00	6.483	23.00	9.48	53.00
0.500	6.00	3.500	13.00	6.500	23.00	9.50	53.00
0.517	6.00	3.517	13.00	6.517	23.00	9.52	53.00
0.533	6.00	3.533	13.00	6.533	23.00	9.53	53.00
0.550	6.00	3.550	13.00	6.550	23.00	9.55	53.00
0.567	6.00	3.567	13.00	6.567	23.00	9.57	53.00
0.583	6.00	3.583	13.00	6.583	23.00	9.58	53.00
0.600	6.00	3.600	13.00	6.600	23.00	9.60	53.00
0.617	6.00	3.617	13.00	6.617	23.00	9.62	53.00
0.633	6.00	3.633	13.00	6.633	23.00	9.63	53.00
0.650	6.00	3.650	13.00	6.650	23.00	9.65	53.00
0.667	6.00	3.667	13.00	6.667	23.00	9.67	53.00
0.683	6.00	3.683	13.00	6.683	23.00	9.68	53.00
0.700	6.00	3.700	13.00	6.700	23.00	9.70	53.00
0.717	6.00	3.717	13.00	6.717	23.00	9.72	53.00
0.733	6.00	3.733	13.00	6.733	23.00	9.73	53.00
0.750	6.00	3.750	13.00	6.750	23.00	9.75	53.00
0.767	6.00	3.767	13.00	6.767	23.00	9.77	53.00
0.783	6.00	3.783	13.00	6.783	23.00	9.78	53.00
0.800	6.00	3.800	13.00	6.800	23.00	9.80	53.00
0.817	6.00	3.817	13.00	6.817	23.00	9.82	53.00
0.833	6.00	3.833	13.00	6.833	23.00	9.83	53.00
0.850	6.00	3.850	13.00	6.850	23.00	9.85	53.00
0.867	6.00	3.867	13.00	6.867	23.00	9.87	53.00
0.883	6.00	3.883	13.00	6.883	23.00	9.88	53.00
0.900	6.00	3.900	13.00	6.900	23.00	9.90	53.00
0.917	6.00	3.917	13.00	6.917	23.00	9.92	53.00
0.933	6.00	3.933	13.00	6.933	23.00	9.93	53.00
0.950	6.00	3.950	13.00	6.950	23.00	9.95	53.00
0.967	6.00	3.967	13.00	6.967	23.00	9.97	53.00
0.983	6.00	3.983	13.00	6.983	23.00	9.98	53.00
1.000	6.00	4.000	13.00	7.000	22.98	10.00	52.98
1.017	4.00	4.017	17.00	7.017	13.00	10.02	38.00
1.033	4.00	4.033	17.00	7.033	13.00	10.03	38.00
1.050	4.00	4.050	17.00	7.050	13.00	10.05	38.00
1.067	4.00	4.067	17.00	7.067	13.00	10.07	38.00
1.083	4.00	4.083	17.00	7.083	13.00	10.08	38.00
1.100	4.00	4.100	17.00	7.100	13.00	10.10	38.00
1.117	4.00	4.117	17.00	7.117	13.00	10.12	38.00
1.133	4.00	4.133	17.00	7.133	13.00	10.13	38.00
1.150	4.00	4.150	17.00	7.150	13.00	10.15	38.00
1.167	4.00	4.167	17.00	7.167	13.00	10.17	38.00
1.183	4.00	4.183	17.00	7.183	13.00	10.18	38.00
1.200	4.00	4.200	17.00	7.200	13.00	10.20	38.00
1.217	4.00	4.217	17.00	7.217	13.00	10.22	38.00
1.233	4.00	4.233	17.00	7.233	13.00	10.23	38.00
1.250	4.00	4.250	17.00	7.250	13.00	10.25	38.00
1.267	4.00	4.267	17.00	7.267	13.00	10.27	38.00
1.283	4.00	4.283	17.00	7.283	13.00	10.28	38.00
1.300	4.00	4.300	17.00	7.300	13.00	10.30	38.00
1.317	4.00	4.317	17.00	7.317	13.00	10.32	38.00
1.333	4.00	4.333	17.00	7.333	13.00	10.33	38.00
1.350	4.00	4.350	17.00	7.350	13.00	10.35	38.00
1.367	4.00	4.367	17.00	7.367	13.00	10.37	38.00
1.383	4.00	4.383	17.00	7.383	13.00	10.38	38.00
1.400	4.00	4.400	17.00	7.400	13.00	10.40	38.00
1.417	4.00	4.417	17.00	7.417	13.00	10.42	38.00
1.433	4.00	4.433	17.00	7.433	13.00	10.43	38.00
1.450	4.00	4.450	17.00	7.450	13.00	10.45	38.00
1.467	4.00	4.467	17.00	7.467	13.00	10.47	38.00
1.483	4.00	4.483	17.00	7.483	13.00	10.48	38.00
1.500	4.00	4.500	17.00	7.500	13.00	10.50	38.00
1.517	4.00	4.517	17.00	7.517	13.00	10.52	38.00
1.533	4.00	4.533	17.00	7.533	13.00	10.53	38.00
1.550	4.00	4.550	17.00	7.550	13.00	10.55	38.00
1.567	4.00	4.567	17.00	7.567	13.00	10.57	38.00
1.583	4.00	4.583	17.00	7.583	13.00	10.58	38.00
1.600	4.00	4.600	17.00	7.600	13.00	10.60	38.00
1.617	4.00	4.617	17.00	7.617	13.00	10.62	38.00
1.633	4.00	4.633	17.00	7.633	13.00	10.63	38.00
1.650	4.00	4.650	17.00	7.650	13.00	10.65	38.00
1.667	4.00	4.667	17.00	7.667	13.00	10.67	38.00
1.683	4.00	4.683	17.00	7.683	13.00	10.68	38.00
1.700	4.00	4.700	17.00	7.700	13.00	10.70	38.00

1.717	4.00	4.717	17.00	7.717	13.00	10.72	38.00
1.733	4.00	4.733	17.00	7.733	13.00	10.73	38.00
1.750	4.00	4.750	17.00	7.750	13.00	10.75	38.00
1.767	4.00	4.767	17.00	7.767	13.00	10.77	38.00
1.783	4.00	4.783	17.00	7.783	13.00	10.78	38.00
1.800	4.00	4.800	17.00	7.800	13.00	10.80	38.00
1.817	4.00	4.817	17.00	7.817	13.00	10.82	38.00
1.833	4.00	4.833	17.00	7.833	13.00	10.83	38.00
1.850	4.00	4.850	17.00	7.850	13.00	10.85	38.00
1.867	4.00	4.867	17.00	7.867	13.00	10.87	38.00
1.883	4.00	4.883	17.00	7.883	13.00	10.88	38.00
1.900	4.00	4.900	17.00	7.900	13.00	10.90	38.00
1.917	4.00	4.917	17.00	7.917	13.00	10.92	38.00
1.933	4.00	4.933	17.00	7.933	13.00	10.93	38.00
1.950	4.00	4.950	17.00	7.950	13.00	10.95	38.00
1.967	4.00	4.967	17.00	7.967	13.00	10.97	38.00
1.983	4.00	4.983	17.00	7.983	13.00	10.98	38.00
2.000	4.00	5.000	17.00	8.000	13.00	11.00	37.99
2.017	6.00	5.017	13.00	8.017	13.00	11.02	13.00
2.033	6.00	5.033	13.00	8.033	13.00	11.03	13.00
2.050	6.00	5.050	13.00	8.050	13.00	11.05	13.00
2.067	6.00	5.067	13.00	8.067	13.00	11.07	13.00
2.083	6.00	5.083	13.00	8.083	13.00	11.08	13.00
2.100	6.00	5.100	13.00	8.100	13.00	11.10	13.00
2.117	6.00	5.117	13.00	8.117	13.00	11.12	13.00
2.133	6.00	5.133	13.00	8.133	13.00	11.13	13.00
2.150	6.00	5.150	13.00	8.150	13.00	11.15	13.00
2.167	6.00	5.167	13.00	8.167	13.00	11.17	13.00
2.183	6.00	5.183	13.00	8.183	13.00	11.18	13.00
2.200	6.00	5.200	13.00	8.200	13.00	11.20	13.00
2.217	6.00	5.217	13.00	8.217	13.00	11.22	13.00
2.233	6.00	5.233	13.00	8.233	13.00	11.23	13.00
2.250	6.00	5.250	13.00	8.250	13.00	11.25	13.00
2.267	6.00	5.267	13.00	8.267	13.00	11.27	13.00
2.283	6.00	5.283	13.00	8.283	13.00	11.28	13.00
2.300	6.00	5.300	13.00	8.300	13.00	11.30	13.00
2.317	6.00	5.317	13.00	8.317	13.00	11.32	13.00
2.333	6.00	5.333	13.00	8.333	13.00	11.33	13.00
2.350	6.00	5.350	13.00	8.350	13.00	11.35	13.00
2.367	6.00	5.367	13.00	8.367	13.00	11.37	13.00
2.383	6.00	5.383	13.00	8.383	13.00	11.38	13.00
2.400	6.00	5.400	13.00	8.400	13.00	11.40	13.00
2.417	6.00	5.417	13.00	8.417	13.00	11.42	13.00
2.433	6.00	5.433	13.00	8.433	13.00	11.43	13.00
2.450	6.00	5.450	13.00	8.450	13.00	11.45	13.00
2.467	6.00	5.467	13.00	8.467	13.00	11.47	13.00
2.483	6.00	5.483	13.00	8.483	13.00	11.48	13.00
2.500	6.00	5.500	13.00	8.500	13.00	11.50	13.00
2.517	6.00	5.517	13.00	8.517	13.00	11.52	13.00
2.533	6.00	5.533	13.00	8.533	13.00	11.53	13.00
2.550	6.00	5.550	13.00	8.550	13.00	11.55	13.00
2.567	6.00	5.567	13.00	8.567	13.00	11.57	13.00
2.583	6.00	5.583	13.00	8.583	13.00	11.58	13.00
2.600	6.00	5.600	13.00	8.600	13.00	11.60	13.00
2.617	6.00	5.617	13.00	8.617	13.00	11.62	13.00
2.633	6.00	5.633	13.00	8.633	13.00	11.63	13.00
2.650	6.00	5.650	13.00	8.650	13.00	11.65	13.00
2.667	6.00	5.667	13.00	8.667	13.00	11.67	13.00
2.683	6.00	5.683	13.00	8.683	13.00	11.68	13.00
2.700	6.00	5.700	13.00	8.700	13.00	11.70	13.00
2.717	6.00	5.717	13.00	8.717	13.00	11.72	13.00
2.733	6.00	5.733	13.00	8.733	13.00	11.73	13.00
2.750	6.00	5.750	13.00	8.750	13.00	11.75	13.00
2.767	6.00	5.767	13.00	8.767	13.00	11.77	13.00
2.783	6.00	5.783	13.00	8.783	13.00	11.78	13.00
2.800	6.00	5.800	13.00	8.800	13.00	11.80	13.00
2.817	6.00	5.817	13.00	8.817	13.00	11.82	13.00
2.833	6.00	5.833	13.00	8.833	13.00	11.83	13.00
2.850	6.00	5.850	13.00	8.850	13.00	11.85	13.00
2.867	6.00	5.867	13.00	8.867	13.00	11.87	13.00
2.883	6.00	5.883	13.00	8.883	13.00	11.88	13.00
2.900	6.00	5.900	13.00	8.900	13.00	11.90	13.00
2.917	6.00	5.917	13.00	8.917	13.00	11.92	13.00
2.933	6.00	5.933	13.00	8.933	13.00	11.93	13.00
2.950	6.00	5.950	13.00	8.950	13.00	11.95	13.00
2.967	6.00	5.967	13.00	8.967	13.00	11.97	13.00
2.983	6.00	5.983	13.00	8.983	13.00	11.98	13.00
3.000	6.00	6.000	13.01	9.000	13.08	12.00	13.00

Max.Eff.Inten.(mm/hr)=	53.00	52.53	
over (min)	5.00	6.00	
Storage Coeff. (min)=	3.87 (ii)	5.31 (ii)	
Unit Hyd. Tpeak (min)=	5.00	6.00	
Unit Hyd. peak (cms)=	0.27	0.20	
			TOTALS
PEAK FLOW (cms)=	0.37	0.00	0.377 (iii)
TIME TO PEAK (hrs)=	9.98	10.00	9.98
RUNOFF VOLUME (mm)=	210.99	196.94	210.86
TOTAL RAINFALL (mm)=	212.00	212.00	212.00
RUNOFF COEFFICIENT =	1.00	0.93	0.99

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 94.0 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 (0002):	15.53	2.283	10.00	209.59
+ ID2= 2 (0007):	2.56	0.377	9.98	210.86
ID = 3 (0012):	18.09	2.660	10.00	209.77

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

RESERVOIR(0011) | OVERFLOW IS OFF
IN= 2---> OUT= 1
DT= 1.0 min

OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
0.0000	0.0000	2.8110	0.4813
0.0590	0.3542	3.2550	0.5511
1.5560	0.3695	4.0320	0.5885
2.2770	0.4312	4.6420	0.6202

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0012)	18.090	2.660	10.00	209.77
OUTFLOW: ID= 1 (0011)	18.090	2.602	10.05	204.17

PEAK FLOW REDUCTION [Qout/Qin](%)= 97.81
TIME SHIFT OF PEAK FLOW (min)= 3.00
MAXIMUM STORAGE USED (ha.m.)= 0.4617

FINISH

```
================================================================================
=========================


       V    V   I    SSSSS  U   U    A    L              (v 6.2.2019)
       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

        OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
       O   O    T      T    H   H   Y Y   MM MM  O   O
       O   O    T      T    H   H    Y    M   M  O   O
        OOO     T      T    H   H    Y    M   M   OOO
Developed and Distributed by Smart City Water Inc
Copyright 2007 - 2022 Smart City Water Inc
All rights reserved.


                  *****  S U M M A R Y   O U T P U T  *****


  Input   filename: C:\Program Files (x86)\Visual OTTHYMO 6.2\VO2\voin.dat

  Output  filename:
C:\Users\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\5d5c13
58-fe67-469d-bd30-25a5eb5cbd2a\scenari
  Summary filename:
C:\Users\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\5d5c13
58-fe67-469d-bd30-25a5eb5cbd2a\scenari


DATE: 01-27-2026                          TIME: 01:46:13

USER:


COMMENTS: _____________________________________________________________


  ************************************************
  ** SIMULATION : Hazel                         **
  ************************************************

  W/E COMMAND             HYD ID   DT    AREA  ' Qpeak Tpeak   R.V. R.C.   Qbase
                                   min     ha   '  cms   hrs     mm          cms

      START @  0.00 hrs
      --------------------
    READ STORM                60.0
    [ Ptot=212.00 mm ]
    fname :
C:\Users\kong\AppData\Local\Temp\313c7de9-72da-46da-8f95-85b2d7552f32\008167ef-3d9
7-4248-b2f7-35530a
    remark: HAZEL

*
 ** CALIB STANDHYD       0002  1  1.0   15.53    2.28 10.00 209.59 0.99   0.000
    [I%=90.0:S%= 2.00]
*
    READ STORM                60.0
    [ Ptot=212.00 mm ]
    fname :
C:\Users\kong\AppData\Local\Temp\313c7de9-72da-46da-8f95-85b2d7552f32\008167ef-3d9
7-4248-b2f7-35530a
    remark: HAZEL

*
 ** CALIB STANDHYD       0007  1  1.0    2.56    0.38  9.98 210.86 0.99   0.000
    [I%=99.0:S%= 2.00]
*
    ADD [  0002+  0007]  0012  3  1.0   18.09    2.66 10.00 209.77  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             0011  1  1.0   18.09    2.60 10.05 204.17  n/a   0.000
*
 FINISH

================================================================================
=========================
```

```
================================================================================
========================

       V    V   I    SSSSS  U   U    A    L              (v 6.2.2019)
       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

        OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
       O   O    T      T    H   H   Y Y   MM MM  O   O
       O   O    T      T    H   H    Y    M   M  O   O
        OOO     T      T    H   H    Y    M   M   OOO
Developed and Distributed by Smart City Water Inc
Copyright 2007 - 2022 Smart City Water Inc
All rights reserved.


                  *****  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\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\14b5fc
3d-f290-4ac8-84a1-89c5acb7f969\scenari
  Summary filename:
C:\Users\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\14b5fc
3d-f290-4ac8-84a1-89c5acb7f969\scenari


DATE: 01-27-2026                          TIME: 02:07:38

USER:


COMMENTS: _____


--------------------------------------------------------------------------------
-------------------------
  ************************************************
  ** SIMULATION : 1 - 25MM4HRC_10min Edited 201 **
  ************************************************


--------------------
|    READ STORM    |    Filename: C:\Users\kong\AppD
|                  |              ata\Local\Temp\
|                  |              4b24bae0-43e7-4523-b2f3-4ca6a98d7aa8\cb44d379
| Ptotal= 25.00 mm |   Comments: 25MM4HRC_10min Edited 2012
--------------------
```

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.00	2.07	1.00	5.70	2.00	5.19	3.00	2.80
0.17	2.27	1.17	10.78	2.17	4.47	3.17	2.62
0.33	2.52	1.33	50.21	2.33	3.95	3.33	2.48
0.50	2.88	1.50	13.37	2.50	3.56	3.50	2.35
0.67	3.38	1.67	8.29	2.67	3.25	3.67	2.23
0.83	4.18	1.83	6.30	2.83	3.01	3.83	2.14

```
--------------------------------------------------------------------------------

--------------------
| CALIB            |
| STANDHYD (  0001)|   Area    (ha)=  15.57
|ID= 1 DT= 1.0 min |   Total Imp(%)=  49.00   Dir. Conn.(%)=  49.00
--------------------
                              IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=       7.63         7.94
     Dep. Storage     (mm)=       1.00         5.00
     Average Slope     (%)=       1.00         2.00
     Length            (m)=     322.18        40.00
     Mannings n            =      0.013        0.250

         NOTE:  RAINFALL WAS TRANSFORMED TO   1.0 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
0.017	2.07	1.017	5.70	2.017	5.19	3.02	2.80
0.033	2.07	1.033	5.70	2.033	5.19	3.03	2.80
0.050	2.07	1.050	5.70	2.050	5.19	3.05	2.80
0.067	2.07	1.067	5.70	2.067	5.19	3.07	2.80
0.083	2.07	1.083	5.70	2.083	5.19	3.08	2.80
0.100	2.07	1.100	5.70	2.100	5.19	3.10	2.80
0.117	2.07	1.117	5.70	2.117	5.19	3.12	2.80
0.133	2.07	1.133	5.70	2.133	5.19	3.13	2.80
0.150	2.07	1.150	5.70	2.150	5.19	3.15	2.80
0.167	2.07	1.167	5.70	2.167	5.19	3.17	2.80
0.183	2.27	1.183	10.78	2.183	4.47	3.18	2.62
0.200	2.27	1.200	10.78	2.200	4.47	3.20	2.62
0.217	2.27	1.217	10.78	2.217	4.47	3.22	2.62
0.233	2.27	1.233	10.78	2.233	4.47	3.23	2.62
0.250	2.27	1.250	10.78	2.250	4.47	3.25	2.62
0.267	2.27	1.267	10.78	2.267	4.47	3.27	2.62
0.283	2.27	1.283	10.78	2.283	4.47	3.28	2.62
0.300	2.27	1.300	10.78	2.300	4.47	3.30	2.62
0.317	2.27	1.317	10.78	2.317	4.47	3.32	2.62
0.333	2.27	1.333	10.78	2.333	4.47	3.33	2.62
0.350	2.52	1.350	50.21	2.350	3.95	3.35	2.48
0.367	2.52	1.367	50.21	2.367	3.95	3.37	2.48
0.383	2.52	1.383	50.21	2.383	3.95	3.38	2.48
0.400	2.52	1.400	50.21	2.400	3.95	3.40	2.48
0.417	2.52	1.417	50.21	2.417	3.95	3.42	2.48
0.433	2.52	1.433	50.21	2.433	3.95	3.43	2.48
0.450	2.52	1.450	50.21	2.450	3.95	3.45	2.48
0.467	2.52	1.467	50.21	2.467	3.95	3.47	2.48
0.483	2.52	1.483	50.21	2.483	3.95	3.48	2.48
0.500	2.52	1.500	50.21	2.500	3.95	3.50	2.48
0.517	2.88	1.517	13.37	2.517	3.56	3.52	2.35
0.533	2.88	1.533	13.37	2.533	3.56	3.53	2.35
0.550	2.88	1.550	13.37	2.550	3.56	3.55	2.35
0.567	2.88	1.567	13.37	2.567	3.56	3.57	2.35
0.583	2.88	1.583	13.37	2.583	3.56	3.58	2.35
0.600	2.88	1.600	13.37	2.600	3.56	3.60	2.35
0.617	2.88	1.617	13.37	2.617	3.56	3.62	2.35
0.633	2.88	1.633	13.37	2.633	3.56	3.63	2.35
0.650	2.88	1.650	13.37	2.650	3.56	3.65	2.35
0.667	2.88	1.667	13.37	2.667	3.56	3.67	2.35
0.683	3.38	1.683	8.29	2.683	3.25	3.68	2.23
0.700	3.38	1.700	8.29	2.700	3.25	3.70	2.23
0.717	3.38	1.717	8.29	2.717	3.25	3.72	2.23
0.733	3.38	1.733	8.29	2.733	3.25	3.73	2.23
0.750	3.38	1.750	8.29	2.750	3.25	3.75	2.23
0.767	3.38	1.767	8.29	2.767	3.25	3.77	2.23
0.783	3.38	1.783	8.29	2.783	3.25	3.78	2.23
0.800	3.38	1.800	8.29	2.800	3.25	3.80	2.23
0.817	3.38	1.817	8.29	2.817	3.25	3.82	2.23
0.833	3.38	1.833	8.29	2.833	3.25	3.83	2.23
0.850	4.17	1.850	6.30	2.850	3.01	3.85	2.14
0.867	4.18	1.867	6.30	2.867	3.01	3.87	2.14
0.883	4.18	1.883	6.30	2.883	3.01	3.88	2.14
0.900	4.18	1.900	6.30	2.900	3.01	3.90	2.14
0.917	4.18	1.917	6.30	2.917	3.01	3.92	2.14
0.933	4.18	1.933	6.30	2.933	3.01	3.93	2.14
0.950	4.18	1.950	6.30	2.950	3.01	3.95	2.14
0.967	4.18	1.967	6.30	2.967	3.01	3.97	2.14
0.983	4.18	1.983	6.30	2.983	3.01	3.98	2.14
1.000	4.18	2.000	6.30	3.000	3.01	4.00	2.14

```
     Max.Eff.Inten.(mm/hr)=      50.21         6.58
               over (min)         7.00        28.00
     Storage Coeff.  (min)=       6.79 (ii)   27.75 (ii)
     Unit Hyd. Tpeak (min)=       7.00        28.00
     Unit Hyd. peak  (cms)=       0.16         0.04
                                                    *TOTALS*
     PEAK FLOW       (cms)=       0.78         0.07          0.794 (iii)
     TIME TO PEAK    (hrs)=       1.55         2.03           1.55
     RUNOFF VOLUME    (mm)=      24.00         6.17          14.90
     TOTAL RAINFALL   (mm)=      25.00        25.00          25.00
     RUNOFF COEFFICIENT   =       0.96         0.25           0.60


       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
            CN*  =  85.0    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            |
| STANDHYD (  0002)|   Area    (ha)=  15.57
|ID= 1 DT= 1.0 min |   Total Imp(%)=  49.00   Dir. Conn.(%)=  49.00
--------------------
                              IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=       7.63         7.94
     Dep. Storage     (mm)=       1.00         0.00
     Average Slope     (%)=       1.00         2.00
     Length            (m)=     322.18        40.00
     Mannings n            =      0.013        0.250

         NOTE:  RAINFALL WAS TRANSFORMED TO   1.0 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
0.017	2.07	1.017	5.70	2.017	5.19	3.02	2.80
0.033	2.07	1.033	5.70	2.033	5.19	3.03	2.80
0.050	2.07	1.050	5.70	2.050	5.19	3.05	2.80
0.067	2.07	1.067	5.70	2.067	5.19	3.07	2.80
0.083	2.07	1.083	5.70	2.083	5.19	3.08	2.80
0.100	2.07	1.100	5.70	2.100	5.19	3.10	2.80
0.117	2.07	1.117	5.70	2.117	5.19	3.12	2.80
0.133	2.07	1.133	5.70	2.133	5.19	3.13	2.80
0.150	2.07	1.150	5.70	2.150	5.19	3.15	2.80
0.167	2.07	1.167	5.70	2.167	5.19	3.17	2.80
0.183	2.27	1.183	10.78	2.183	4.47	3.18	2.62
0.200	2.27	1.200	10.78	2.200	4.47	3.20	2.62
0.217	2.27	1.217	10.78	2.217	4.47	3.22	2.62
0.233	2.27	1.233	10.78	2.233	4.47	3.23	2.62
0.250	2.27	1.250	10.78	2.250	4.47	3.25	2.62
0.267	2.27	1.267	10.78	2.267	4.47	3.27	2.62
0.283	2.27	1.283	10.78	2.283	4.47	3.28	2.62
0.300	2.27	1.300	10.78	2.300	4.47	3.30	2.62
0.317	2.27	1.317	10.78	2.317	4.47	3.32	2.62

0.333	2.27	1.333	10.78	2.333	4.47	3.33	2.62
0.350	2.52	1.350	50.21	2.350	3.95	3.35	2.48
0.367	2.52	1.367	50.21	2.367	3.95	3.37	2.48
0.383	2.52	1.383	50.21	2.383	3.95	3.38	2.48
0.400	2.52	1.400	50.21	2.400	3.95	3.40	2.48
0.417	2.52	1.417	50.21	2.417	3.95	3.42	2.48
0.433	2.52	1.433	50.21	2.433	3.95	3.43	2.48
0.450	2.52	1.450	50.21	2.450	3.95	3.45	2.48
0.467	2.52	1.467	50.21	2.467	3.95	3.47	2.48
0.483	2.52	1.483	50.21	2.483	3.95	3.48	2.48
0.500	2.52	1.500	50.21	2.500	3.95	3.50	2.48
0.517	2.88	1.517	13.37	2.517	3.56	3.52	2.35
0.533	2.88	1.533	13.37	2.533	3.56	3.53	2.35
0.550	2.88	1.550	13.37	2.550	3.56	3.55	2.35
0.567	2.88	1.567	13.37	2.567	3.56	3.57	2.35
0.583	2.88	1.583	13.37	2.583	3.56	3.58	2.35
0.600	2.88	1.600	13.37	2.600	3.56	3.60	2.35
0.617	2.88	1.617	13.37	2.617	3.56	3.62	2.35
0.633	2.88	1.633	13.37	2.633	3.56	3.63	2.35
0.650	2.88	1.650	13.37	2.650	3.56	3.65	2.35
0.667	2.88	1.667	13.37	2.667	3.56	3.67	2.35
0.683	3.38	1.683	8.29	2.683	3.25	3.68	2.23
0.700	3.38	1.700	8.29	2.700	3.25	3.70	2.23
0.717	3.38	1.717	8.29	2.717	3.25	3.72	2.23
0.733	3.38	1.733	8.29	2.733	3.25	3.73	2.23
0.750	3.38	1.750	8.29	2.750	3.25	3.75	2.23
0.767	3.38	1.767	8.29	2.767	3.25	3.77	2.23
0.783	3.38	1.783	8.29	2.783	3.25	3.78	2.23
0.800	3.38	1.800	8.29	2.800	3.25	3.80	2.23
0.817	3.38	1.817	8.29	2.817	3.25	3.82	2.23
0.833	3.38	1.833	8.29	2.833	3.25	3.83	2.23
0.850	4.17	1.850	6.30	2.850	3.01	3.85	2.14
0.867	4.18	1.867	6.30	2.867	3.01	3.87	2.14
0.883	4.18	1.883	6.30	2.883	3.01	3.88	2.14
0.900	4.18	1.900	6.30	2.900	3.01	3.90	2.14
0.917	4.18	1.917	6.30	2.917	3.01	3.92	2.14
0.933	4.18	1.933	6.30	2.933	3.01	3.93	2.14
0.950	4.18	1.950	6.30	2.950	3.01	3.95	2.14
0.967	4.18	1.967	6.30	2.967	3.01	3.97	2.14
0.983	4.18	1.983	6.30	2.983	3.01	3.98	2.14
1.000	4.18	2.000	6.30	3.000	3.01	4.00	2.14

Max.Eff.Inten.(mm/hr)=	50.21	26.77	
over (min)	7.00	19.00	
Storage Coeff. (min)=	6.79 (ii)	18.75 (ii)	
Unit Hyd. Tpeak (min)=	7.00	19.00	
Unit Hyd. peak (cms)=	0.16	0.06	
			TOTALS
PEAK FLOW (cms)=	0.78	0.28	0.927 (iii)
TIME TO PEAK (hrs)=	1.55	1.77	1.57

RUNOFF VOLUME (mm)=	24.00	15.16	19.49
TOTAL RAINFALL (mm)=	25.00	25.00	25.00
RUNOFF COEFFICIENT =	0.96	0.61	0.78

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 94.0 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.

V V I SSSSS U U A L (v 6.2.2019)
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

OOO TTTTT TTTTT H H Y Y M M OOO TM
O O T T H H Y Y MM MM O O
O O T T H H Y M M O O
OOO T T H H Y M M OOO

***** 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\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\2d409a30-c830-45b1-9e91-fc6484da53ba\scenari
Summary filename:
C:\Users\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\2d409a30-c830-45b1-9e91-fc6484da53ba\scenari

DATE: 01-27-2026 TIME: 02:07:38

USER:

COMMENTS: _____

** SIMULATION : 2 - 2-Year 24hr Chic - Milton **

CHICAGO STORM
Ptotal= 47.70 mm

IDF curve parameters: A= 779.000
B= 6.000
C= 0.821
used in: INTENSITY = A / (t + B)^C

Duration of storm = 24.00 hrs
Storm time step = 10.00 min
Time to peak ratio = 0.33

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.00	0.37	6.00	1.29	12.00	1.14	18.00	0.53
0.17	0.38	6.17	1.41	12.17	1.10	18.17	0.52
0.33	0.38	6.33	1.55	12.33	1.06	18.33	0.52
0.50	0.39	6.50	1.73	12.50	1.03	18.50	0.51
0.67	0.40	6.67	1.96	12.67	1.00	18.67	0.50
0.83	0.41	6.83	2.26	12.83	0.97	18.83	0.50
1.00	0.42	7.00	2.70	13.00	0.94	19.00	0.49
1.17	0.42	7.17	3.37	13.17	0.92	19.17	0.48
1.33	0.43	7.33	4.53	13.33	0.89	19.33	0.48
1.50	0.44	7.50	7.13	13.50	0.87	19.50	0.47
1.67	0.45	7.67	18.18	13.67	0.85	19.67	0.47
1.83	0.46	7.83	80.06	13.83	0.83	19.83	0.46
2.00	0.47	8.00	24.18	14.00	0.81	20.00	0.46
2.17	0.49	8.17	12.21	14.17	0.79	20.17	0.45
2.33	0.50	8.33	8.15	14.33	0.78	20.33	0.45
2.50	0.51	8.50	6.13	14.50	0.76	20.50	0.44
2.67	0.53	8.67	4.94	14.67	0.74	20.67	0.44
2.83	0.54	8.83	4.14	14.83	0.73	20.83	0.43
3.00	0.56	9.00	3.58	15.00	0.71	21.00	0.43
3.17	0.57	9.17	3.16	15.17	0.70	21.17	0.42
3.33	0.59	9.33	2.83	15.33	0.69	21.33	0.42
3.50	0.61	9.50	2.57	15.50	0.67	21.50	0.41
3.67	0.63	9.67	2.36	15.67	0.66	21.67	0.41
3.83	0.65	9.83	2.18	15.83	0.65	21.83	0.41
4.00	0.68	10.00	2.02	16.00	0.64	22.00	0.40
4.17	0.71	10.17	1.89	16.17	0.63	22.17	0.40
4.33	0.73	10.33	1.78	16.33	0.62	22.33	0.39
4.50	0.77	10.50	1.68	16.50	0.61	22.50	0.39
4.67	0.80	10.67	1.59	16.67	0.60	22.67	0.39
4.83	0.84	10.83	1.51	16.83	0.59	22.83	0.38
5.00	0.88	11.00	1.44	17.00	0.58	23.00	0.38
5.17	0.93	11.17	1.38	17.17	0.57	23.17	0.38
5.33	0.98	11.33	1.32	17.33	0.56	23.33	0.37
5.50	1.04	11.50	1.27	17.50	0.55	23.50	0.37
5.67	1.12	11.67	1.22	17.67	0.55	23.67	0.37
5.83	1.20	11.83	1.18	17.83	0.54	23.83	0.36

CALIB
STANDHYD (0001)
ID= 1 DT= 1.0 min

Area (ha)= 15.57
Total Imp(%)= 49.00 Dir. Conn.(%)= 49.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	7.63	7.94
Dep. Storage	(mm)=	1.00	5.00
Average Slope	(%)=	1.00	2.00
Length	(m)=	322.18	40.00
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 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
0.017	0.37	6.017	1.29	12.017	1.14	18.02	0.53
0.033	0.37	6.033	1.29	12.033	1.14	18.03	0.53
0.050	0.37	6.050	1.29	12.050	1.14	18.05	0.53
0.067	0.37	6.067	1.29	12.067	1.14	18.07	0.53
0.083	0.37	6.083	1.29	12.083	1.14	18.08	0.53
0.100	0.37	6.100	1.29	12.100	1.14	18.10	0.53
0.117	0.37	6.117	1.29	12.117	1.14	18.12	0.53
0.133	0.37	6.133	1.29	12.133	1.14	18.13	0.53
0.150	0.37	6.150	1.29	12.150	1.14	18.15	0.53
0.167	0.37	6.167	1.29	12.167	1.14	18.17	0.53
0.183	0.38	6.183	1.41	12.183	1.10	18.18	0.52
0.200	0.38	6.200	1.41	12.200	1.10	18.20	0.52
0.217	0.38	6.217	1.41	12.217	1.10	18.22	0.52
0.233	0.38	6.233	1.41	12.233	1.10	18.23	0.52
0.250	0.38	6.250	1.41	12.250	1.10	18.25	0.52
0.267	0.38	6.267	1.41	12.267	1.10	18.27	0.52
0.283	0.38	6.283	1.41	12.283	1.10	18.28	0.52
0.300	0.38	6.300	1.41	12.300	1.10	18.30	0.52
0.317	0.38	6.317	1.41	12.317	1.10	18.32	0.52
0.333	0.38	6.333	1.41	12.333	1.10	18.33	0.52
0.350	0.38	6.350	1.55	12.350	1.06	18.35	0.52
0.367	0.38	6.367	1.55	12.367	1.06	18.37	0.52
0.383	0.38	6.383	1.55	12.383	1.06	18.38	0.52

0.400	0.38	6.400	1.55	12.400	1.06	18.40	0.52
0.417	0.38	6.417	1.55	12.417	1.06	18.42	0.52
0.433	0.38	6.433	1.55	12.433	1.06	18.43	0.52
0.450	0.38	6.450	1.55	12.450	1.06	18.45	0.52
0.467	0.38	6.467	1.55	12.467	1.06	18.47	0.52
0.483	0.38	6.483	1.55	12.483	1.06	18.48	0.52
0.500	0.38	6.500	1.55	12.500	1.06	18.50	0.52
0.517	0.39	6.517	1.73	12.517	1.03	18.52	0.51
0.533	0.39	6.533	1.73	12.533	1.03	18.53	0.51
0.550	0.39	6.550	1.73	12.550	1.03	18.55	0.51
0.567	0.39	6.567	1.73	12.567	1.03	18.57	0.51
0.583	0.39	6.583	1.73	12.583	1.03	18.58	0.51
0.600	0.39	6.600	1.73	12.600	1.03	18.60	0.51
0.617	0.39	6.617	1.73	12.617	1.03	18.62	0.51
0.633	0.39	6.633	1.73	12.633	1.03	18.63	0.51
0.650	0.39	6.650	1.73	12.650	1.03	18.65	0.51
0.667	0.39	6.667	1.73	12.667	1.03	18.67	0.51
0.683	0.40	6.683	1.96	12.683	1.00	18.68	0.50
0.700	0.40	6.700	1.96	12.700	1.00	18.70	0.50
0.717	0.40	6.717	1.96	12.717	1.00	18.72	0.50
0.733	0.40	6.733	1.96	12.733	1.00	18.73	0.50
0.750	0.40	6.750	1.96	12.750	1.00	18.75	0.50
0.767	0.40	6.767	1.96	12.767	1.00	18.77	0.50
0.783	0.40	6.783	1.96	12.783	1.00	18.78	0.50
0.800	0.40	6.800	1.96	12.800	1.00	18.80	0.50
0.817	0.40	6.817	1.96	12.817	1.00	18.82	0.50
0.833	0.40	6.833	1.96	12.833	1.00	18.83	0.50
0.850	0.41	6.850	2.26	12.850	0.97	18.85	0.50
0.867	0.41	6.867	2.26	12.867	0.97	18.87	0.50
0.883	0.41	6.883	2.26	12.883	0.97	18.88	0.50
0.900	0.41	6.900	2.26	12.900	0.97	18.90	0.50
0.917	0.41	6.917	2.26	12.917	0.97	18.92	0.50
0.933	0.41	6.933	2.26	12.933	0.97	18.93	0.50
0.950	0.41	6.950	2.26	12.950	0.97	18.95	0.50
0.967	0.41	6.967	2.26	12.967	0.97	18.97	0.50
0.983	0.41	6.983	2.26	12.983	0.97	18.98	0.50
1.000	0.41	7.000	2.26	13.000	0.97	19.00	0.50
1.017	0.42	7.017	2.70	13.017	0.94	19.02	0.49
1.033	0.42	7.033	2.70	13.033	0.94	19.03	0.49
1.050	0.42	7.050	2.70	13.050	0.94	19.05	0.49
1.067	0.42	7.067	2.70	13.067	0.94	19.07	0.49
1.083	0.42	7.083	2.70	13.083	0.94	19.08	0.49
1.100	0.42	7.100	2.70	13.100	0.94	19.10	0.49
1.117	0.42	7.117	2.70	13.117	0.94	19.12	0.49
1.133	0.42	7.133	2.70	13.133	0.94	19.13	0.49
1.150	0.42	7.150	2.70	13.150	0.94	19.15	0.49
1.167	0.42	7.167	2.70	13.167	0.94	19.17	0.49
1.183	0.42	7.183	3.37	13.183	0.92	19.18	0.48
1.200	0.42	7.200	3.37	13.200	0.92	19.20	0.48
1.217	0.42	7.217	3.37	13.217	0.92	19.22	0.48
1.233	0.42	7.233	3.37	13.233	0.92	19.23	0.48
1.250	0.42	7.250	3.37	13.250	0.92	19.25	0.48
1.267	0.42	7.267	3.37	13.267	0.92	19.27	0.48
1.283	0.42	7.283	3.37	13.283	0.92	19.28	0.48
1.300	0.42	7.300	3.37	13.300	0.92	19.30	0.48
1.317	0.42	7.317	3.37	13.317	0.92	19.32	0.48
1.333	0.42	7.333	3.37	13.333	0.92	19.33	0.48
1.350	0.43	7.350	4.53	13.350	0.89	19.35	0.48
1.367	0.43	7.367	4.53	13.367	0.89	19.37	0.48
1.383	0.43	7.383	4.53	13.383	0.89	19.38	0.48
1.400	0.43	7.400	4.53	13.400	0.89	19.40	0.48
1.417	0.43	7.417	4.53	13.417	0.89	19.42	0.48
1.433	0.43	7.433	4.53	13.433	0.89	19.43	0.48
1.450	0.43	7.450	4.53	13.450	0.89	19.45	0.48
1.467	0.43	7.467	4.53	13.467	0.89	19.47	0.48
1.483	0.43	7.483	4.53	13.483	0.89	19.48	0.48
1.500	0.43	7.500	4.54	13.500	0.89	19.50	0.48
1.517	0.44	7.517	7.13	13.517	0.87	19.52	0.47
1.533	0.44	7.533	7.13	13.533	0.87	19.53	0.47
1.550	0.44	7.550	7.13	13.550	0.87	19.55	0.47
1.567	0.44	7.567	7.13	13.567	0.87	19.57	0.47
1.583	0.44	7.583	7.13	13.583	0.87	19.58	0.47
1.600	0.44	7.600	7.13	13.600	0.87	19.60	0.47
1.617	0.44	7.617	7.13	13.617	0.87	19.62	0.47
1.633	0.44	7.633	7.13	13.633	0.87	19.63	0.47
1.650	0.44	7.650	7.13	13.650	0.87	19.65	0.47
1.667	0.44	7.667	7.16	13.667	0.87	19.67	0.47
1.683	0.45	7.683	18.18	13.683	0.85	19.68	0.47
1.700	0.45	7.700	18.18	13.700	0.85	19.70	0.47
1.717	0.45	7.717	18.18	13.717	0.85	19.72	0.47
1.733	0.45	7.733	18.18	13.733	0.85	19.73	0.47
1.750	0.45	7.750	18.18	13.750	0.85	19.75	0.47
1.767	0.45	7.767	18.18	13.767	0.85	19.77	0.47
1.783	0.45	7.783	18.18	13.783	0.85	19.78	0.47
1.800	0.45	7.800	18.18	13.800	0.85	19.80	0.47
1.817	0.45	7.817	18.18	13.817	0.85	19.82	0.47
1.833	0.45	7.833	18.36	13.833	0.85	19.83	0.47
1.850	0.46	7.850	80.06	13.850	0.83	19.85	0.46
1.867	0.46	7.867	80.06	13.867	0.83	19.87	0.46
1.883	0.46	7.883	80.06	13.883	0.83	19.88	0.46
1.900	0.46	7.900	80.06	13.900	0.83	19.90	0.46
1.917	0.46	7.917	80.06	13.917	0.83	19.92	0.46
1.933	0.46	7.933	80.06	13.933	0.83	19.93	0.46
1.950	0.46	7.950	80.06	13.950	0.83	19.95	0.46
1.967	0.46	7.967	80.06	13.967	0.83	19.97	0.46
1.983	0.46	7.983	80.06	13.983	0.83	19.98	0.46
2.000	0.46	8.000	79.90	14.000	0.83	20.00	0.46
2.017	0.47	8.017	24.18	14.017	0.81	20.02	0.46
2.033	0.47	8.033	24.18	14.033	0.81	20.03	0.46
2.050	0.47	8.050	24.18	14.050	0.81	20.05	0.46
2.067	0.47	8.067	24.18	14.067	0.81	20.07	0.46
2.083	0.47	8.083	24.18	14.083	0.81	20.08	0.46
2.100	0.47	8.100	24.18	14.100	0.81	20.10	0.46
2.117	0.47	8.117	24.18	14.117	0.81	20.12	0.46
2.133	0.47	8.133	24.18	14.133	0.81	20.13	0.46
2.150	0.47	8.150	24.18	14.150	0.81	20.15	0.46
2.167	0.47	8.167	24.14	14.167	0.81	20.17	0.46
2.183	0.49	8.183	12.21	14.183	0.79	20.18	0.45
2.200	0.49	8.200	12.21	14.200	0.79	20.20	0.45
2.217	0.49	8.217	12.21	14.217	0.79	20.22	0.45
2.233	0.49	8.233	12.21	14.233	0.79	20.23	0.45
2.250	0.49	8.250	12.21	14.250	0.79	20.25	0.45
2.267	0.49	8.267	12.21	14.267	0.79	20.27	0.45
2.283	0.49	8.283	12.21	14.283	0.79	20.28	0.45
2.300	0.49	8.300	12.21	14.300	0.79	20.30	0.45
2.317	0.49	8.317	12.21	14.317	0.79	20.32	0.45
2.333	0.49	8.333	12.20	14.333	0.79	20.33	0.45
2.350	0.50	8.350	8.15	14.350	0.78	20.35	0.45
2.367	0.50	8.367	8.15	14.367	0.78	20.37	0.45
2.383	0.50	8.383	8.15	14.383	0.78	20.38	0.45
2.400	0.50	8.400	8.15	14.400	0.78	20.40	0.45
2.417	0.50	8.417	8.15	14.417	0.78	20.42	0.45
2.433	0.50	8.433	8.15	14.433	0.78	20.43	0.45
2.450	0.50	8.450	8.15	14.450	0.78	20.45	0.45
2.467	0.50	8.467	8.15	14.467	0.78	20.47	0.45
2.483	0.50	8.483	8.15	14.483	0.78	20.48	0.45
2.500	0.50	8.500	8.14	14.500	0.78	20.50	0.45
2.517	0.51	8.517	6.13	14.517	0.76	20.52	0.44
2.533	0.51	8.533	6.13	14.533	0.76	20.53	0.44
2.550	0.51	8.550	6.13	14.550	0.76	20.55	0.44
2.567	0.51	8.567	6.13	14.567	0.76	20.57	0.44
2.583	0.51	8.583	6.13	14.583	0.76	20.58	0.44
2.600	0.51	8.600	6.13	14.600	0.76	20.60	0.44
2.617	0.51	8.617	6.13	14.617	0.76	20.62	0.44
2.633	0.51	8.633	6.13	14.633	0.76	20.63	0.44
2.650	0.51	8.650	6.13	14.650	0.76	20.65	0.44
2.667	0.51	8.667	6.13	14.667	0.76	20.67	0.44
2.683	0.53	8.683	4.94	14.683	0.74	20.68	0.44
2.700	0.53	8.700	4.94	14.700	0.74	20.70	0.44
2.717	0.53	8.717	4.94	14.717	0.74	20.72	0.44
2.733	0.53	8.733	4.94	14.733	0.74	20.73	0.44
2.750	0.53	8.750	4.94	14.750	0.74	20.75	0.44
2.767	0.53	8.767	4.94	14.767	0.74	20.77	0.44
2.783	0.53	8.783	4.94	14.783	0.74	20.78	0.44
2.800	0.53	8.800	4.94	14.800	0.74	20.80	0.44
2.817	0.53	8.817	4.94	14.817	0.74	20.82	0.44
2.833	0.53	8.833	4.93	14.833	0.74	20.83	0.44
2.850	0.54	8.850	4.14	14.850	0.73	20.85	0.43
2.867	0.54	8.867	4.14	14.867	0.73	20.87	0.43
2.883	0.54	8.883	4.14	14.883	0.73	20.88	0.43
2.900	0.54	8.900	4.14	14.900	0.73	20.90	0.43
2.917	0.54	8.917	4.14	14.917	0.73	20.92	0.43
2.933	0.54	8.933	4.14	14.933	0.73	20.93	0.43
2.950	0.54	8.950	4.14	14.950	0.73	20.95	0.43
2.967	0.54	8.967	4.14	14.967	0.73	20.97	0.43
2.983	0.54	8.983	4.14	14.983	0.73	20.98	0.43
3.000	0.54	9.000	4.14	15.000	0.73	21.00	0.43
3.017	0.56	9.017	3.58	15.017	0.71	21.02	0.43
3.033	0.56	9.033	3.58	15.033	0.71	21.03	0.43
3.050	0.56	9.050	3.58	15.050	0.71	21.05	0.43
3.067	0.56	9.067	3.58	15.067	0.71	21.07	0.43
3.083	0.56	9.083	3.58	15.083	0.71	21.08	0.43
3.100	0.56	9.100	3.58	15.100	0.71	21.10	0.43
3.117	0.56	9.117	3.58	15.117	0.71	21.12	0.43
3.133	0.56	9.133	3.58	15.133	0.71	21.13	0.43
3.150	0.56	9.150	3.58	15.150	0.71	21.15	0.43
3.167	0.56	9.167	3.58	15.167	0.71	21.17	0.43
3.183	0.57	9.183	3.16	15.183	0.70	21.18	0.42
3.200	0.57	9.200	3.16	15.200	0.70	21.20	0.42
3.217	0.57	9.217	3.16	15.217	0.70	21.22	0.42
3.233	0.57	9.233	3.16	15.233	0.70	21.23	0.42
3.250	0.57	9.250	3.16	15.250	0.70	21.25	0.42
3.267	0.57	9.267	3.16	15.267	0.70	21.27	0.42
3.283	0.57	9.283	3.16	15.283	0.70	21.28	0.42
3.300	0.57	9.300	3.16	15.300	0.70	21.30	0.42
3.317	0.57	9.317	3.16	15.317	0.70	21.32	0.42
3.333	0.57	9.333	3.16	15.333	0.70	21.33	0.42
3.350	0.59	9.350	2.83	15.350	0.69	21.35	0.42
3.367	0.59	9.367	2.83	15.367	0.69	21.37	0.42
3.383	0.59	9.383	2.83	15.383	0.69	21.38	0.42
3.400	0.59	9.400	2.83	15.400	0.69	21.40	0.42
3.417	0.59	9.417	2.83	15.417	0.69	21.42	0.42
3.433	0.59	9.433	2.83	15.433	0.69	21.43	0.42
3.450	0.59	9.450	2.83	15.450	0.69	21.45	0.42
3.467	0.59	9.467	2.83	15.467	0.69	21.47	0.42
3.483	0.59	9.483	2.83	15.483	0.69	21.48	0.42
3.500	0.59	9.500	2.83	15.500	0.69	21.50	0.42
3.517	0.61	9.517	2.57	15.517	0.67	21.52	0.41
3.533	0.61	9.533	2.57	15.533	0.67	21.53	0.41
3.550	0.61	9.550	2.57	15.550	0.67	21.55	0.41
3.567	0.61	9.567	2.57	15.567	0.67	21.57	0.41
3.583	0.61	9.583	2.57	15.583	0.67	21.58	0.41
3.600	0.61	9.600	2.57	15.600	0.67	21.60	0.41
3.617	0.61	9.617	2.57	15.617	0.67	21.62	0.41
3.633	0.61	9.633	2.57	15.633	0.67	21.63	0.41
3.650	0.61	9.650	2.57	15.650	0.67	21.65	0.41
3.667	0.61	9.667	2.57	15.667	0.67	21.67	0.41
3.683	0.63	9.683	2.36	15.683	0.66	21.68	0.41
3.700	0.63	9.700	2.36	15.700	0.66	21.70	0.41
3.717	0.63	9.717	2.36	15.717	0.66	21.72	0.41

3.733	0.63	9.733	2.36	15.733	0.66	21.73	0.41
3.750	0.63	9.750	2.36	15.750	0.66	21.75	0.41
3.767	0.63	9.767	2.36	15.767	0.66	21.77	0.41
3.783	0.63	9.783	2.36	15.783	0.66	21.78	0.41
3.800	0.63	9.800	2.36	15.800	0.66	21.80	0.41
3.817	0.63	9.817	2.36	15.817	0.66	21.82	0.41
3.833	0.63	9.833	2.35	15.833	0.66	21.83	0.41
3.850	0.65	9.850	2.18	15.850	0.65	21.85	0.41
3.867	0.65	9.867	2.18	15.867	0.65	21.87	0.41
3.883	0.65	9.883	2.18	15.883	0.65	21.88	0.41
3.900	0.65	9.900	2.18	15.900	0.65	21.90	0.41
3.917	0.65	9.917	2.18	15.917	0.65	21.92	0.41
3.933	0.65	9.933	2.18	15.933	0.65	21.93	0.41
3.950	0.65	9.950	2.18	15.950	0.65	21.95	0.41
3.967	0.65	9.967	2.18	15.967	0.65	21.97	0.41
3.983	0.65	9.983	2.18	15.983	0.65	21.98	0.41
4.000	0.65	10.000	2.18	16.000	0.65	22.00	0.41
4.017	0.68	10.017	2.02	16.017	0.64	22.02	0.40
4.033	0.68	10.033	2.02	16.033	0.64	22.03	0.40
4.050	0.68	10.050	2.02	16.050	0.64	22.05	0.40
4.067	0.68	10.067	2.02	16.067	0.64	22.07	0.40
4.083	0.68	10.083	2.02	16.083	0.64	22.08	0.40
4.100	0.68	10.100	2.02	16.100	0.64	22.10	0.40
4.117	0.68	10.117	2.02	16.117	0.64	22.12	0.40
4.133	0.68	10.133	2.02	16.133	0.64	22.13	0.40
4.150	0.68	10.150	2.02	16.150	0.64	22.15	0.40
4.167	0.68	10.167	2.02	16.167	0.64	22.17	0.40
4.183	0.71	10.183	1.89	16.183	0.63	22.18	0.40
4.200	0.71	10.200	1.89	16.200	0.63	22.20	0.40
4.217	0.71	10.217	1.89	16.217	0.63	22.22	0.40
4.233	0.71	10.233	1.89	16.233	0.63	22.23	0.40
4.250	0.71	10.250	1.89	16.250	0.63	22.25	0.40
4.267	0.71	10.267	1.89	16.267	0.63	22.27	0.40
4.283	0.71	10.283	1.89	16.283	0.63	22.28	0.40
4.300	0.71	10.300	1.89	16.300	0.63	22.30	0.40
4.317	0.71	10.317	1.89	16.317	0.63	22.32	0.40
4.333	0.71	10.333	1.89	16.333	0.63	22.33	0.40
4.350	0.73	10.350	1.78	16.350	0.62	22.35	0.39
4.367	0.73	10.367	1.78	16.367	0.62	22.37	0.39
4.383	0.73	10.383	1.78	16.383	0.62	22.38	0.39
4.400	0.73	10.400	1.78	16.400	0.62	22.40	0.39
4.417	0.73	10.417	1.78	16.417	0.62	22.42	0.39
4.433	0.73	10.433	1.78	16.433	0.62	22.43	0.39
4.450	0.73	10.450	1.78	16.450	0.62	22.45	0.39
4.467	0.73	10.467	1.78	16.467	0.62	22.47	0.39
4.483	0.73	10.483	1.78	16.483	0.62	22.48	0.39
4.500	0.73	10.500	1.78	16.500	0.62	22.50	0.39
4.517	0.77	10.517	1.68	16.517	0.61	22.52	0.39
4.533	0.77	10.533	1.68	16.533	0.61	22.53	0.39
4.550	0.77	10.550	1.68	16.550	0.61	22.55	0.39
4.567	0.77	10.567	1.68	16.567	0.61	22.57	0.39
4.583	0.77	10.583	1.68	16.583	0.61	22.58	0.39
4.600	0.77	10.600	1.68	16.600	0.61	22.60	0.39
4.617	0.77	10.617	1.68	16.617	0.61	22.62	0.39
4.633	0.77	10.633	1.68	16.633	0.61	22.63	0.39
4.650	0.77	10.650	1.68	16.650	0.61	22.65	0.39
4.667	0.77	10.667	1.68	16.667	0.61	22.67	0.39
4.683	0.80	10.683	1.59	16.683	0.60	22.68	0.39
4.700	0.80	10.700	1.59	16.700	0.60	22.70	0.39
4.717	0.80	10.717	1.59	16.717	0.60	22.72	0.39
4.733	0.80	10.733	1.59	16.733	0.60	22.73	0.39
4.750	0.80	10.750	1.59	16.750	0.60	22.75	0.39
4.767	0.80	10.767	1.59	16.767	0.60	22.77	0.39
4.783	0.80	10.783	1.59	16.783	0.60	22.78	0.39
4.800	0.80	10.800	1.59	16.800	0.60	22.80	0.39
4.817	0.80	10.817	1.59	16.817	0.60	22.82	0.39
4.833	0.80	10.833	1.59	16.833	0.60	22.83	0.39
4.850	0.84	10.850	1.51	16.850	0.59	22.85	0.38
4.867	0.84	10.867	1.51	16.867	0.59	22.87	0.38
4.883	0.84	10.883	1.51	16.883	0.59	22.88	0.38
4.900	0.84	10.900	1.51	16.900	0.59	22.90	0.38
4.917	0.84	10.917	1.51	16.917	0.59	22.92	0.38
4.933	0.84	10.933	1.51	16.933	0.59	22.93	0.38
4.950	0.84	10.950	1.51	16.950	0.59	22.95	0.38
4.967	0.84	10.967	1.51	16.967	0.59	22.97	0.38
4.983	0.84	10.983	1.51	16.983	0.59	22.98	0.38
5.000	0.84	11.000	1.51	17.000	0.59	23.00	0.38
5.017	0.88	11.017	1.44	17.017	0.58	23.02	0.38
5.033	0.88	11.033	1.44	17.033	0.58	23.03	0.38
5.050	0.88	11.050	1.44	17.050	0.58	23.05	0.38
5.067	0.88	11.067	1.44	17.067	0.58	23.07	0.38
5.083	0.88	11.083	1.44	17.083	0.58	23.08	0.38
5.100	0.88	11.100	1.44	17.100	0.58	23.10	0.38
5.117	0.88	11.117	1.44	17.117	0.58	23.12	0.38
5.133	0.88	11.133	1.44	17.133	0.58	23.13	0.38
5.150	0.88	11.150	1.44	17.150	0.58	23.15	0.38
5.167	0.88	11.167	1.44	17.167	0.58	23.17	0.38
5.183	0.93	11.183	1.38	17.183	0.57	23.18	0.38
5.200	0.93	11.200	1.38	17.200	0.57	23.20	0.38
5.217	0.93	11.217	1.38	17.217	0.57	23.22	0.38
5.233	0.93	11.233	1.38	17.233	0.57	23.23	0.38
5.250	0.93	11.250	1.38	17.250	0.57	23.25	0.38
5.267	0.93	11.267	1.38	17.267	0.57	23.27	0.38
5.283	0.93	11.283	1.38	17.283	0.57	23.28	0.38
5.300	0.93	11.300	1.38	17.300	0.57	23.30	0.38
5.317	0.93	11.317	1.38	17.317	0.57	23.32	0.38
5.333	0.93	11.333	1.38	17.333	0.57	23.33	0.38
5.350	0.98	11.350	1.32	17.350	0.56	23.35	0.37
5.367	0.98	11.367	1.32	17.367	0.56	23.37	0.37
5.383	0.98	11.383	1.32	17.383	0.56	23.38	0.37
5.400	0.98	11.400	1.32	17.400	0.56	23.40	0.37
5.417	0.98	11.417	1.32	17.417	0.56	23.42	0.37
5.433	0.98	11.433	1.32	17.433	0.56	23.43	0.37
5.450	0.98	11.450	1.32	17.450	0.56	23.45	0.37
5.467	0.98	11.467	1.32	17.467	0.56	23.47	0.37
5.483	0.98	11.483	1.32	17.483	0.56	23.48	0.37
5.500	0.98	11.500	1.32	17.500	0.56	23.50	0.37
5.517	1.04	11.517	1.27	17.517	0.55	23.52	0.37
5.533	1.04	11.533	1.27	17.533	0.55	23.53	0.37
5.550	1.04	11.550	1.27	17.550	0.55	23.55	0.37
5.567	1.04	11.567	1.27	17.567	0.55	23.57	0.37
5.583	1.04	11.583	1.27	17.583	0.55	23.58	0.37
5.600	1.04	11.600	1.27	17.600	0.55	23.60	0.37
5.617	1.04	11.617	1.27	17.617	0.55	23.62	0.37
5.633	1.04	11.633	1.27	17.633	0.55	23.63	0.37
5.650	1.04	11.650	1.27	17.650	0.55	23.65	0.37
5.667	1.05	11.667	1.27	17.667	0.55	23.67	0.37
5.683	1.12	11.683	1.22	17.683	0.55	23.68	0.37
5.700	1.12	11.700	1.22	17.700	0.55	23.70	0.37
5.717	1.12	11.717	1.22	17.717	0.55	23.72	0.37
5.733	1.12	11.733	1.22	17.733	0.55	23.73	0.37
5.750	1.12	11.750	1.22	17.750	0.55	23.75	0.37
5.767	1.12	11.767	1.22	17.767	0.55	23.77	0.37
5.783	1.12	11.783	1.22	17.783	0.55	23.78	0.37
5.800	1.12	11.800	1.22	17.800	0.55	23.80	0.37
5.817	1.12	11.817	1.22	17.817	0.55	23.82	0.37
5.833	1.12	11.833	1.22	17.833	0.55	23.83	0.37
5.850	1.20	11.850	1.18	17.850	0.54	23.85	0.36
5.867	1.20	11.867	1.18	17.867	0.54	23.87	0.36
5.883	1.20	11.883	1.18	17.883	0.54	23.88	0.36
5.900	1.20	11.900	1.18	17.900	0.54	23.90	0.36
5.917	1.20	11.917	1.18	17.917	0.54	23.92	0.36
5.933	1.20	11.933	1.18	17.933	0.54	23.93	0.36
5.950	1.20	11.950	1.18	17.950	0.54	23.95	0.36
5.967	1.20	11.967	1.18	17.967	0.54	23.97	0.36
5.983	1.20	11.983	1.18	17.983	0.54	23.98	0.36
6.000	1.20	12.000	1.18	18.000	0.54	24.00	0.36

Max.Eff.Inten.(mm/hr)=	80.06	31.43	
over (min)	6.00	14.00	
Storage Coeff. (min)=	5.63 (ii)	13.47 (ii)	
Unit Hyd. Tpeak (min)=	6.00	14.00	
Unit Hyd. peak (cms)=	0.20	0.08	
			TOTALS
PEAK FLOW (cms)=	1.35	0.37	1.556 (iii)
TIME TO PEAK (hrs)=	8.03	8.20	8.05
RUNOFF VOLUME (mm)=	46.69	20.83	33.51
TOTAL RAINFALL (mm)=	47.70	47.70	47.70
RUNOFF COEFFICIENT =	0.98	0.44	0.70

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 85.0 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		
STANDHYD (0002)	Area (ha)=	15.57
ID= 1 DT= 1.0 min	Total Imp(%)=	49.00 Dir. Conn.(%)= 49.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	7.63	7.94
Dep. Storage	(mm)=	1.00	0.00
Average Slope	(%)=	1.00	2.00
Length	(m)=	322.18	40.00
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 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
0.017	0.37	6.017	1.29	12.017	1.14	18.02	0.53
0.033	0.37	6.033	1.29	12.033	1.14	18.03	0.53
0.050	0.37	6.050	1.29	12.050	1.14	18.05	0.53
0.067	0.37	6.067	1.29	12.067	1.14	18.07	0.53
0.083	0.37	6.083	1.29	12.083	1.14	18.08	0.53
0.100	0.37	6.100	1.29	12.100	1.14	18.10	0.53
0.117	0.37	6.117	1.29	12.117	1.14	18.12	0.53
0.133	0.37	6.133	1.29	12.133	1.14	18.13	0.53
0.150	0.37	6.150	1.29	12.150	1.14	18.15	0.53
0.167	0.37	6.167	1.29	12.167	1.14	18.17	0.53
0.183	0.38	6.183	1.41	12.183	1.10	18.18	0.52
0.200	0.38	6.200	1.41	12.200	1.10	18.20	0.52
0.217	0.38	6.217	1.41	12.217	1.10	18.22	0.52
0.233	0.38	6.233	1.41	12.233	1.10	18.23	0.52
0.250	0.38	6.250	1.41	12.250	1.10	18.25	0.52
0.267	0.38	6.267	1.41	12.267	1.10	18.27	0.52
0.283	0.38	6.283	1.41	12.283	1.10	18.28	0.52
0.300	0.38	6.300	1.41	12.300	1.10	18.30	0.52
0.317	0.38	6.317	1.41	12.317	1.10	18.32	0.52
0.333	0.38	6.333	1.41	12.333	1.10	18.33	0.52
0.350	0.38	6.350	1.55	12.350	1.06	18.35	0.52
0.367	0.38	6.367	1.55	12.367	1.06	18.37	0.52
0.383	0.38	6.383	1.55	12.383	1.06	18.38	0.52
0.400	0.38	6.400	1.55	12.400	1.06	18.40	0.52

0.417	0.38	6.417	1.55	12.417	1.06	18.42	0.52
0.433	0.38	6.433	1.55	12.433	1.06	18.43	0.52
0.450	0.38	6.450	1.55	12.450	1.06	18.45	0.52
0.467	0.38	6.467	1.55	12.467	1.06	18.47	0.52
0.483	0.38	6.483	1.55	12.483	1.06	18.48	0.52
0.500	0.38	6.500	1.55	12.500	1.06	18.50	0.52
0.517	0.39	6.517	1.73	12.517	1.03	18.52	0.51
0.533	0.39	6.533	1.73	12.533	1.03	18.53	0.51
0.550	0.39	6.550	1.73	12.550	1.03	18.55	0.51
0.567	0.39	6.567	1.73	12.567	1.03	18.57	0.51
0.583	0.39	6.583	1.73	12.583	1.03	18.58	0.51
0.600	0.39	6.600	1.73	12.600	1.03	18.60	0.51
0.617	0.39	6.617	1.73	12.617	1.03	18.62	0.51
0.633	0.39	6.633	1.73	12.633	1.03	18.63	0.51
0.650	0.39	6.650	1.73	12.650	1.03	18.65	0.51
0.667	0.39	6.667	1.73	12.667	1.03	18.67	0.51
0.683	0.40	6.683	1.96	12.683	1.00	18.68	0.50
0.700	0.40	6.700	1.96	12.700	1.00	18.70	0.50
0.717	0.40	6.717	1.96	12.717	1.00	18.72	0.50
0.733	0.40	6.733	1.96	12.733	1.00	18.73	0.50
0.750	0.40	6.750	1.96	12.750	1.00	18.75	0.50
0.767	0.40	6.767	1.96	12.767	1.00	18.77	0.50
0.783	0.40	6.783	1.96	12.783	1.00	18.78	0.50
0.800	0.40	6.800	1.96	12.800	1.00	18.80	0.50
0.817	0.40	6.817	1.96	12.817	1.00	18.82	0.50
0.833	0.40	6.833	1.96	12.833	1.00	18.83	0.50
0.850	0.41	6.850	2.26	12.850	0.97	18.85	0.50
0.867	0.41	6.867	2.26	12.867	0.97	18.87	0.50
0.883	0.41	6.883	2.26	12.883	0.97	18.88	0.50
0.900	0.41	6.900	2.26	12.900	0.97	18.90	0.50
0.917	0.41	6.917	2.26	12.917	0.97	18.92	0.50
0.933	0.41	6.933	2.26	12.933	0.97	18.93	0.50
0.950	0.41	6.950	2.26	12.950	0.97	18.95	0.50
0.967	0.41	6.967	2.26	12.967	0.97	18.97	0.50
0.983	0.41	6.983	2.26	12.983	0.97	18.98	0.50
1.000	0.41	7.000	2.26	13.000	0.97	19.00	0.50
1.017	0.42	7.017	2.70	13.017	0.94	19.02	0.49
1.033	0.42	7.033	2.70	13.033	0.94	19.03	0.49
1.050	0.42	7.050	2.70	13.050	0.94	19.05	0.49
1.067	0.42	7.067	2.70	13.067	0.94	19.07	0.49
1.083	0.42	7.083	2.70	13.083	0.94	19.08	0.49
1.100	0.42	7.100	2.70	13.100	0.94	19.10	0.49
1.117	0.42	7.117	2.70	13.117	0.94	19.12	0.49
1.133	0.42	7.133	2.70	13.133	0.94	19.13	0.49
1.150	0.42	7.150	2.70	13.150	0.94	19.15	0.49
1.167	0.42	7.167	2.70	13.167	0.94	19.17	0.49
1.183	0.42	7.183	3.37	13.183	0.92	19.18	0.48
1.200	0.42	7.200	3.37	13.200	0.92	19.20	0.48
1.217	0.42	7.217	3.37	13.217	0.92	19.22	0.48
1.233	0.42	7.233	3.37	13.233	0.92	19.23	0.48
1.250	0.42	7.250	3.37	13.250	0.92	19.25	0.48
1.267	0.42	7.267	3.37	13.267	0.92	19.27	0.48
1.283	0.42	7.283	3.37	13.283	0.92	19.28	0.48
1.300	0.42	7.300	3.37	13.300	0.92	19.30	0.48
1.317	0.42	7.317	3.37	13.317	0.92	19.32	0.48
1.333	0.42	7.333	3.37	13.333	0.92	19.33	0.48
1.350	0.43	7.350	4.53	13.350	0.89	19.35	0.48
1.367	0.43	7.367	4.53	13.367	0.89	19.37	0.48
1.383	0.43	7.383	4.53	13.383	0.89	19.38	0.48
1.400	0.43	7.400	4.53	13.400	0.89	19.40	0.48
1.417	0.43	7.417	4.53	13.417	0.89	19.42	0.48
1.433	0.43	7.433	4.53	13.433	0.89	19.43	0.48
1.450	0.43	7.450	4.53	13.450	0.89	19.45	0.48
1.467	0.43	7.467	4.53	13.467	0.89	19.47	0.48
1.483	0.43	7.483	4.53	13.483	0.89	19.48	0.48
1.500	0.43	7.500	4.54	13.500	0.89	19.50	0.48
1.517	0.44	7.517	7.13	13.517	0.87	19.52	0.47
1.533	0.44	7.533	7.13	13.533	0.87	19.53	0.47
1.550	0.44	7.550	7.13	13.550	0.87	19.55	0.47
1.567	0.44	7.567	7.13	13.567	0.87	19.57	0.47
1.583	0.44	7.583	7.13	13.583	0.87	19.58	0.47
1.600	0.44	7.600	7.13	13.600	0.87	19.60	0.47
1.617	0.44	7.617	7.13	13.617	0.87	19.62	0.47
1.633	0.44	7.633	7.13	13.633	0.87	19.63	0.47
1.650	0.44	7.650	7.13	13.650	0.87	19.65	0.47
1.667	0.44	7.667	7.16	13.667	0.87	19.67	0.47
1.683	0.45	7.683	18.18	13.683	0.85	19.68	0.47
1.700	0.45	7.700	18.18	13.700	0.85	19.70	0.47
1.717	0.45	7.717	18.18	13.717	0.85	19.72	0.47
1.733	0.45	7.733	18.18	13.733	0.85	19.73	0.47
1.750	0.45	7.750	18.18	13.750	0.85	19.75	0.47
1.767	0.45	7.767	18.18	13.767	0.85	19.77	0.47
1.783	0.45	7.783	18.18	13.783	0.85	19.78	0.47
1.800	0.45	7.800	18.18	13.800	0.85	19.80	0.47
1.817	0.45	7.817	18.18	13.817	0.85	19.82	0.47
1.833	0.45	7.833	18.36	13.833	0.85	19.83	0.47
1.850	0.46	7.850	80.06	13.850	0.83	19.85	0.46
1.867	0.46	7.867	80.06	13.867	0.83	19.87	0.46
1.883	0.46	7.883	80.06	13.883	0.83	19.88	0.46
1.900	0.46	7.900	80.06	13.900	0.83	19.90	0.46
1.917	0.46	7.917	80.06	13.917	0.83	19.92	0.46
1.933	0.46	7.933	80.06	13.933	0.83	19.93	0.46
1.950	0.46	7.950	80.06	13.950	0.83	19.95	0.46
1.967	0.46	7.967	80.06	13.967	0.83	19.97	0.46
1.983	0.46	7.983	80.06	13.983	0.83	19.98	0.46
2.000	0.46	8.000	79.90	14.000	0.83	20.00	0.46
2.017	0.47	8.017	24.18	14.017	0.81	20.02	0.46
2.033	0.47	8.033	24.18	14.033	0.81	20.03	0.46
2.050	0.47	8.050	24.18	14.050	0.81	20.05	0.46
2.067	0.47	8.067	24.18	14.067	0.81	20.07	0.46
2.083	0.47	8.083	24.18	14.083	0.81	20.08	0.46
2.100	0.47	8.100	24.18	14.100	0.81	20.10	0.46
2.117	0.47	8.117	24.18	14.117	0.81	20.12	0.46
2.133	0.47	8.133	24.18	14.133	0.81	20.13	0.46
2.150	0.47	8.150	24.18	14.150	0.81	20.15	0.46
2.167	0.47	8.167	24.14	14.167	0.81	20.17	0.46
2.183	0.49	8.183	12.21	14.183	0.79	20.18	0.45
2.200	0.49	8.200	12.21	14.200	0.79	20.20	0.45
2.217	0.49	8.217	12.21	14.217	0.79	20.22	0.45
2.233	0.49	8.233	12.21	14.233	0.79	20.23	0.45
2.250	0.49	8.250	12.21	14.250	0.79	20.25	0.45
2.267	0.49	8.267	12.21	14.267	0.79	20.27	0.45
2.283	0.49	8.283	12.21	14.283	0.79	20.28	0.45
2.300	0.49	8.300	12.21	14.300	0.79	20.30	0.45
2.317	0.49	8.317	12.21	14.317	0.79	20.32	0.45
2.333	0.49	8.333	12.20	14.333	0.79	20.33	0.45
2.350	0.50	8.350	8.15	14.350	0.78	20.35	0.45
2.367	0.50	8.367	8.15	14.367	0.78	20.37	0.45
2.383	0.50	8.383	8.15	14.383	0.78	20.38	0.45
2.400	0.50	8.400	8.15	14.400	0.78	20.40	0.45
2.417	0.50	8.417	8.15	14.417	0.78	20.42	0.45
2.433	0.50	8.433	8.15	14.433	0.78	20.43	0.45
2.450	0.50	8.450	8.15	14.450	0.78	20.45	0.45
2.467	0.50	8.467	8.15	14.467	0.78	20.47	0.45
2.483	0.50	8.483	8.15	14.483	0.78	20.48	0.45
2.500	0.50	8.500	8.14	14.500	0.78	20.50	0.45
2.517	0.51	8.517	6.13	14.517	0.76	20.52	0.44
2.533	0.51	8.533	6.13	14.533	0.76	20.53	0.44
2.550	0.51	8.550	6.13	14.550	0.76	20.55	0.44
2.567	0.51	8.567	6.13	14.567	0.76	20.57	0.44
2.583	0.51	8.583	6.13	14.583	0.76	20.58	0.44
2.600	0.51	8.600	6.13	14.600	0.76	20.60	0.44
2.617	0.51	8.617	6.13	14.617	0.76	20.62	0.44
2.633	0.51	8.633	6.13	14.633	0.76	20.63	0.44
2.650	0.51	8.650	6.13	14.650	0.76	20.65	0.44
2.667	0.51	8.667	6.13	14.667	0.76	20.67	0.44
2.683	0.53	8.683	4.94	14.683	0.74	20.68	0.44
2.700	0.53	8.700	4.94	14.700	0.74	20.70	0.44
2.717	0.53	8.717	4.94	14.717	0.74	20.72	0.44
2.733	0.53	8.733	4.94	14.733	0.74	20.73	0.44
2.750	0.53	8.750	4.94	14.750	0.74	20.75	0.44
2.767	0.53	8.767	4.94	14.767	0.74	20.77	0.44
2.783	0.53	8.783	4.94	14.783	0.74	20.78	0.44
2.800	0.53	8.800	4.94	14.800	0.74	20.80	0.44
2.817	0.53	8.817	4.94	14.817	0.74	20.82	0.44
2.833	0.53	8.833	4.93	14.833	0.74	20.83	0.44
2.850	0.54	8.850	4.14	14.850	0.73	20.85	0.43
2.867	0.54	8.867	4.14	14.867	0.73	20.87	0.43
2.883	0.54	8.883	4.14	14.883	0.73	20.88	0.43
2.900	0.54	8.900	4.14	14.900	0.73	20.90	0.43
2.917	0.54	8.917	4.14	14.917	0.73	20.92	0.43
2.933	0.54	8.933	4.14	14.933	0.73	20.93	0.43
2.950	0.54	8.950	4.14	14.950	0.73	20.95	0.43
2.967	0.54	8.967	4.14	14.967	0.73	20.97	0.43
2.983	0.54	8.983	4.14	14.983	0.73	20.98	0.43
3.000	0.54	9.000	4.14	15.000	0.73	21.00	0.43
3.017	0.56	9.017	3.58	15.017	0.71	21.02	0.43
3.033	0.56	9.033	3.58	15.033	0.71	21.03	0.43
3.050	0.56	9.050	3.58	15.050	0.71	21.05	0.43
3.067	0.56	9.067	3.58	15.067	0.71	21.07	0.43
3.083	0.56	9.083	3.58	15.083	0.71	21.08	0.43
3.100	0.56	9.100	3.58	15.100	0.71	21.10	0.43
3.117	0.56	9.117	3.58	15.117	0.71	21.12	0.43
3.133	0.56	9.133	3.58	15.133	0.71	21.13	0.43
3.150	0.56	9.150	3.58	15.150	0.71	21.15	0.43
3.167	0.56	9.167	3.58	15.167	0.71	21.17	0.43
3.183	0.57	9.183	3.16	15.183	0.70	21.18	0.42
3.200	0.57	9.200	3.16	15.200	0.70	21.20	0.42
3.217	0.57	9.217	3.16	15.217	0.70	21.22	0.42
3.233	0.57	9.233	3.16	15.233	0.70	21.23	0.42
3.250	0.57	9.250	3.16	15.250	0.70	21.25	0.42
3.267	0.57	9.267	3.16	15.267	0.70	21.27	0.42
3.283	0.57	9.283	3.16	15.283	0.70	21.28	0.42
3.300	0.57	9.300	3.16	15.300	0.70	21.30	0.42
3.317	0.57	9.317	3.16	15.317	0.70	21.32	0.42
3.333	0.57	9.333	3.16	15.333	0.70	21.33	0.42
3.350	0.59	9.350	2.83	15.350	0.69	21.35	0.42
3.367	0.59	9.367	2.83	15.367	0.69	21.37	0.42
3.383	0.59	9.383	2.83	15.383	0.69	21.38	0.42
3.400	0.59	9.400	2.83	15.400	0.69	21.40	0.42
3.417	0.59	9.417	2.83	15.417	0.69	21.42	0.42
3.433	0.59	9.433	2.83	15.433	0.69	21.43	0.42
3.450	0.59	9.450	2.83	15.450	0.69	21.45	0.42
3.467	0.59	9.467	2.83	15.467	0.69	21.47	0.42
3.483	0.59	9.483	2.83	15.483	0.69	21.48	0.42
3.500	0.59	9.500	2.83	15.500	0.69	21.50	0.42
3.517	0.61	9.517	2.57	15.517	0.67	21.52	0.41
3.533	0.61	9.533	2.57	15.533	0.67	21.53	0.41
3.550	0.61	9.550	2.57	15.550	0.67	21.55	0.41
3.567	0.61	9.567	2.57	15.567	0.67	21.57	0.41
3.583	0.61	9.583	2.57	15.583	0.67	21.58	0.41
3.600	0.61	9.600	2.57	15.600	0.67	21.60	0.41
3.617	0.61	9.617	2.57	15.617	0.67	21.62	0.41
3.633	0.61	9.633	2.57	15.633	0.67	21.63	0.41
3.650	0.61	9.650	2.57	15.650	0.67	21.65	0.41
3.667	0.61	9.667	2.57	15.667	0.67	21.67	0.41
3.683	0.63	9.683	2.36	15.683	0.66	21.68	0.41
3.700	0.63	9.700	2.36	15.700	0.66	21.70	0.41
3.717	0.63	9.717	2.36	15.717	0.66	21.72	0.41
3.733	0.63	9.733	2.36	15.733	0.66	21.73	0.41

3.750	0.63	9.750	2.36	15.750	0.66	21.75	0.41
3.767	0.63	9.767	2.36	15.767	0.66	21.77	0.41
3.783	0.63	9.783	2.36	15.783	0.66	21.78	0.41
3.800	0.63	9.800	2.36	15.800	0.66	21.80	0.41
3.817	0.63	9.817	2.36	15.817	0.66	21.82	0.41
3.833	0.63	9.833	2.35	15.833	0.66	21.83	0.41
3.850	0.65	9.850	2.18	15.850	0.65	21.85	0.41
3.867	0.65	9.867	2.18	15.867	0.65	21.87	0.41
3.883	0.65	9.883	2.18	15.883	0.65	21.88	0.41
3.900	0.65	9.900	2.18	15.900	0.65	21.90	0.41
3.917	0.65	9.917	2.18	15.917	0.65	21.92	0.41
3.933	0.65	9.933	2.18	15.933	0.65	21.93	0.41
3.950	0.65	9.950	2.18	15.950	0.65	21.95	0.41
3.967	0.65	9.967	2.18	15.967	0.65	21.97	0.41
3.983	0.65	9.983	2.18	15.983	0.65	21.98	0.41
4.000	0.65	10.000	2.18	16.000	0.65	22.00	0.41
4.017	0.68	10.017	2.02	16.017	0.64	22.02	0.40
4.033	0.68	10.033	2.02	16.033	0.64	22.03	0.40
4.050	0.68	10.050	2.02	16.050	0.64	22.05	0.40
4.067	0.68	10.067	2.02	16.067	0.64	22.07	0.40
4.083	0.68	10.083	2.02	16.083	0.64	22.08	0.40
4.100	0.68	10.100	2.02	16.100	0.64	22.10	0.40
4.117	0.68	10.117	2.02	16.117	0.64	22.12	0.40
4.133	0.68	10.133	2.02	16.133	0.64	22.13	0.40
4.150	0.68	10.150	2.02	16.150	0.64	22.15	0.40
4.167	0.68	10.167	2.02	16.167	0.64	22.17	0.40
4.183	0.71	10.183	1.89	16.183	0.63	22.18	0.40
4.200	0.71	10.200	1.89	16.200	0.63	22.20	0.40
4.217	0.71	10.217	1.89	16.217	0.63	22.22	0.40
4.233	0.71	10.233	1.89	16.233	0.63	22.23	0.40
4.250	0.71	10.250	1.89	16.250	0.63	22.25	0.40
4.267	0.71	10.267	1.89	16.267	0.63	22.27	0.40
4.283	0.71	10.283	1.89	16.283	0.63	22.28	0.40
4.300	0.71	10.300	1.89	16.300	0.63	22.30	0.40
4.317	0.71	10.317	1.89	16.317	0.63	22.32	0.40
4.333	0.71	10.333	1.89	16.333	0.63	22.33	0.40
4.350	0.73	10.350	1.78	16.350	0.62	22.35	0.39
4.367	0.73	10.367	1.78	16.367	0.62	22.37	0.39
4.383	0.73	10.383	1.78	16.383	0.62	22.38	0.39
4.400	0.73	10.400	1.78	16.400	0.62	22.40	0.39
4.417	0.73	10.417	1.78	16.417	0.62	22.42	0.39
4.433	0.73	10.433	1.78	16.433	0.62	22.43	0.39
4.450	0.73	10.450	1.78	16.450	0.62	22.45	0.39
4.467	0.73	10.467	1.78	16.467	0.62	22.47	0.39
4.483	0.73	10.483	1.78	16.483	0.62	22.48	0.39
4.500	0.73	10.500	1.78	16.500	0.62	22.50	0.39
4.517	0.77	10.517	1.68	16.517	0.61	22.52	0.39
4.533	0.77	10.533	1.68	16.533	0.61	22.53	0.39
4.550	0.77	10.550	1.68	16.550	0.61	22.55	0.39
4.567	0.77	10.567	1.68	16.567	0.61	22.57	0.39
4.583	0.77	10.583	1.68	16.583	0.61	22.58	0.39
4.600	0.77	10.600	1.68	16.600	0.61	22.60	0.39
4.617	0.77	10.617	1.68	16.617	0.61	22.62	0.39
4.633	0.77	10.633	1.68	16.633	0.61	22.63	0.39
4.650	0.77	10.650	1.68	16.650	0.61	22.65	0.39
4.667	0.77	10.667	1.68	16.667	0.61	22.67	0.39
4.683	0.80	10.683	1.59	16.683	0.60	22.68	0.39
4.700	0.80	10.700	1.59	16.700	0.60	22.70	0.39
4.717	0.80	10.717	1.59	16.717	0.60	22.72	0.39
4.733	0.80	10.733	1.59	16.733	0.60	22.73	0.39
4.750	0.80	10.750	1.59	16.750	0.60	22.75	0.39
4.767	0.80	10.767	1.59	16.767	0.60	22.77	0.39
4.783	0.80	10.783	1.59	16.783	0.60	22.78	0.39
4.800	0.80	10.800	1.59	16.800	0.60	22.80	0.39
4.817	0.80	10.817	1.59	16.817	0.60	22.82	0.39
4.833	0.80	10.833	1.59	16.833	0.60	22.83	0.39
4.850	0.84	10.850	1.51	16.850	0.59	22.85	0.38
4.867	0.84	10.867	1.51	16.867	0.59	22.87	0.38
4.883	0.84	10.883	1.51	16.883	0.59	22.88	0.38
4.900	0.84	10.900	1.51	16.900	0.59	22.90	0.38
4.917	0.84	10.917	1.51	16.917	0.59	22.92	0.38
4.933	0.84	10.933	1.51	16.933	0.59	22.93	0.38
4.950	0.84	10.950	1.51	16.950	0.59	22.95	0.38
4.967	0.84	10.967	1.51	16.967	0.59	22.97	0.38
4.983	0.84	10.983	1.51	16.983	0.59	22.98	0.38
5.000	0.84	11.000	1.51	17.000	0.59	23.00	0.38
5.017	0.88	11.017	1.44	17.017	0.58	23.02	0.38
5.033	0.88	11.033	1.44	17.033	0.58	23.03	0.38
5.050	0.88	11.050	1.44	17.050	0.58	23.05	0.38
5.067	0.88	11.067	1.44	17.067	0.58	23.07	0.38
5.083	0.88	11.083	1.44	17.083	0.58	23.08	0.38
5.100	0.88	11.100	1.44	17.100	0.58	23.10	0.38
5.117	0.88	11.117	1.44	17.117	0.58	23.12	0.38
5.133	0.88	11.133	1.44	17.133	0.58	23.13	0.38
5.150	0.88	11.150	1.44	17.150	0.58	23.15	0.38
5.167	0.88	11.167	1.44	17.167	0.58	23.17	0.38
5.183	0.93	11.183	1.38	17.183	0.57	23.18	0.38
5.200	0.93	11.200	1.38	17.200	0.57	23.20	0.38
5.217	0.93	11.217	1.38	17.217	0.57	23.22	0.38
5.233	0.93	11.233	1.38	17.233	0.57	23.23	0.38
5.250	0.93	11.250	1.38	17.250	0.57	23.25	0.38
5.267	0.93	11.267	1.38	17.267	0.57	23.27	0.38
5.283	0.93	11.283	1.38	17.283	0.57	23.28	0.38
5.300	0.93	11.300	1.38	17.300	0.57	23.30	0.38
5.317	0.93	11.317	1.38	17.317	0.57	23.32	0.38
5.333	0.93	11.333	1.38	17.333	0.57	23.33	0.38
5.350	0.98	11.350	1.32	17.350	0.56	23.35	0.37
5.367	0.98	11.367	1.32	17.367	0.56	23.37	0.37
5.383	0.98	11.383	1.32	17.383	0.56	23.38	0.37
5.400	0.98	11.400	1.32	17.400	0.56	23.40	0.37
5.417	0.98	11.417	1.32	17.417	0.56	23.42	0.37
5.433	0.98	11.433	1.32	17.433	0.56	23.43	0.37
5.450	0.98	11.450	1.32	17.450	0.56	23.45	0.37
5.467	0.98	11.467	1.32	17.467	0.56	23.47	0.37
5.483	0.98	11.483	1.32	17.483	0.56	23.48	0.37
5.500	0.98	11.500	1.32	17.500	0.56	23.50	0.37
5.517	1.04	11.517	1.27	17.517	0.55	23.52	0.37
5.533	1.04	11.533	1.27	17.533	0.55	23.53	0.37
5.550	1.04	11.550	1.27	17.550	0.55	23.55	0.37
5.567	1.04	11.567	1.27	17.567	0.55	23.57	0.37
5.583	1.04	11.583	1.27	17.583	0.55	23.58	0.37
5.600	1.04	11.600	1.27	17.600	0.55	23.60	0.37
5.617	1.04	11.617	1.27	17.617	0.55	23.62	0.37
5.633	1.04	11.633	1.27	17.633	0.55	23.63	0.37
5.650	1.04	11.650	1.27	17.650	0.55	23.65	0.37
5.667	1.05	11.667	1.27	17.667	0.55	23.67	0.37
5.683	1.12	11.683	1.22	17.683	0.55	23.68	0.37
5.700	1.12	11.700	1.22	17.700	0.55	23.70	0.37
5.717	1.12	11.717	1.22	17.717	0.55	23.72	0.37
5.733	1.12	11.733	1.22	17.733	0.55	23.73	0.37
5.750	1.12	11.750	1.22	17.750	0.55	23.75	0.37
5.767	1.12	11.767	1.22	17.767	0.55	23.77	0.37
5.783	1.12	11.783	1.22	17.783	0.55	23.78	0.37
5.800	1.12	11.800	1.22	17.800	0.55	23.80	0.37
5.817	1.12	11.817	1.22	17.817	0.55	23.82	0.37
5.833	1.12	11.833	1.22	17.833	0.55	23.83	0.37
5.850	1.20	11.850	1.18	17.850	0.54	23.85	0.36
5.867	1.20	11.867	1.18	17.867	0.54	23.87	0.36
5.883	1.20	11.883	1.18	17.883	0.54	23.88	0.36
5.900	1.20	11.900	1.18	17.900	0.54	23.90	0.36
5.917	1.20	11.917	1.18	17.917	0.54	23.92	0.36
5.933	1.20	11.933	1.18	17.933	0.54	23.93	0.36
5.950	1.20	11.950	1.18	17.950	0.54	23.95	0.36
5.967	1.20	11.967	1.18	17.967	0.54	23.97	0.36
5.983	1.20	11.983	1.18	17.983	0.54	23.98	0.36
6.000	1.20	12.000	1.18	18.000	0.54	24.00	0.36

Max.Eff.Inten.(mm/hr)=	80.06	61.45	
over (min)	6.00	14.00	
Storage Coeff. (min)=	5.63 (ii)	13.47 (ii)	
Unit Hyd. Tpeak (min)=	6.00	14.00	
Unit Hyd. peak (cms)=	0.20	0.08	
		TOTALS	
PEAK FLOW (cms)=	1.35	0.70	1.839 (iii)
TIME TO PEAK (hrs)=	8.03	8.18	8.05
RUNOFF VOLUME (mm)=	46.69	35.59	41.04
TOTAL RAINFALL (mm)=	47.70	47.70	47.70
RUNOFF COEFFICIENT =	0.98	0.75	0.86

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 94.0 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.

```
      V    V   I    SSSSS  U   U    A    L              (v 6.2.2019)
      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

       OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
      O   O    T      T    H   H   Y Y   MM MM  O   O
      O   O    T      T    H   H    Y    M M M  O   O
       OOO     T      T    H   H    Y    M   M   OOO
```

Developed and Distributed by Smart City Water Inc

***** 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\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\f84224d5-5430-4893-81af-28446067d191\scenari
Summary filename:
C:\Users\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\f84224d5-5430-4893-81af-28446067d191\scenari

DATE: 01-27-2026 TIME: 02:07:39

USER:

COMMENTS: _____

****

** SIMULATION : 3 - 5-Year 24hr Chic- Milton **
****

CHICAGO STORM
Ptotal= 67.05 mm

IDF curve parameters: A= 959.000
B= 5.700
C= 0.802
used in: INTENSITY = A / (t + B)^C

Duration of storm = 24.00 hrs
Storm time step = 10.00 min
Time to peak ratio = 0.33

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.00	0.57	6.00	1.93	12.00	1.70	18.00	0.81
0.17	0.58	6.17	2.10	12.17	1.64	18.17	0.80
0.33	0.59	6.33	2.30	12.33	1.59	18.33	0.79
0.50	0.60	6.50	2.55	12.50	1.55	18.50	0.78
0.67	0.61	6.67	2.88	12.67	1.50	18.67	0.77
0.83	0.63	6.83	3.31	12.83	1.46	18.83	0.76
1.00	0.64	7.00	3.92	13.00	1.42	19.00	0.75
1.17	0.65	7.17	4.85	13.17	1.38	19.17	0.74
1.33	0.67	7.33	6.45	13.33	1.35	19.33	0.73
1.50	0.68	7.50	9.95	13.50	1.31	19.50	0.72
1.67	0.70	7.67	24.45	13.67	1.28	19.67	0.72
1.83	0.71	7.83	105.25	13.83	1.25	19.83	0.71
2.00	0.73	8.00	32.26	14.00	1.23	20.00	0.70
2.17	0.75	8.17	16.67	14.17	1.20	20.17	0.69
2.33	0.76	8.33	11.31	14.33	1.17	20.33	0.69
2.50	0.78	8.50	8.62	14.50	1.15	20.50	0.68
2.67	0.80	8.67	7.00	14.67	1.13	20.67	0.67
2.83	0.83	8.83	5.92	14.83	1.10	20.83	0.66
3.00	0.85	9.00	5.14	15.00	1.08	21.00	0.66
3.17	0.88	9.17	4.56	15.17	1.06	21.17	0.65
3.33	0.90	9.33	4.11	15.33	1.04	21.33	0.64
3.50	0.93	9.50	3.74	15.50	1.02	21.50	0.64
3.67	0.96	9.67	3.44	15.67	1.01	21.67	0.63
3.83	1.00	9.83	3.19	15.83	0.99	21.83	0.62
4.00	1.03	10.00	2.97	16.00	0.97	22.00	0.62
4.17	1.07	10.17	2.79	16.17	0.96	22.17	0.61
4.33	1.11	10.33	2.63	16.33	0.94	22.33	0.61
4.50	1.16	10.50	2.48	16.50	0.92	22.50	0.60
4.67	1.21	10.67	2.36	16.67	0.91	22.67	0.60
4.83	1.27	10.83	2.25	16.83	0.90	22.83	0.59
5.00	1.33	11.00	2.14	17.00	0.88	23.00	0.59
5.17	1.40	11.17	2.05	17.17	0.87	23.17	0.58
5.33	1.48	11.33	1.97	17.33	0.86	23.33	0.57
5.50	1.57	11.50	1.89	17.50	0.85	23.50	0.57
5.67	1.67	11.67	1.82	17.67	0.83	23.67	0.57
5.83	1.79	11.83	1.76	17.83	0.82	23.83	0.56

CALIB STANDHYD (0001) ID= 1 DT= 1.0 min	Area (ha)= 15.57 Total Imp(%)= 49.00 Dir. Conn.(%)= 49.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	7.63	7.94
Dep. Storage	(mm)=	1.00	5.00
Average Slope	(%)=	1.00	2.00
Length	(m)=	322.18	40.00
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 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
0.017	0.57	6.017	1.93	12.017	1.70	18.02	0.81
0.033	0.57	6.033	1.93	12.033	1.70	18.03	0.81
0.050	0.57	6.050	1.93	12.050	1.70	18.05	0.81
0.067	0.57	6.067	1.93	12.067	1.70	18.07	0.81
0.083	0.57	6.083	1.93	12.083	1.70	18.08	0.81
0.100	0.57	6.100	1.93	12.100	1.70	18.10	0.81
0.117	0.57	6.117	1.93	12.117	1.70	18.12	0.81
0.133	0.57	6.133	1.93	12.133	1.70	18.13	0.81
0.150	0.57	6.150	1.93	12.150	1.70	18.15	0.81
0.167	0.57	6.167	1.93	12.167	1.70	18.17	0.81
0.183	0.58	6.183	2.10	12.183	1.64	18.18	0.80
0.200	0.58	6.200	2.10	12.200	1.64	18.20	0.80
0.217	0.58	6.217	2.10	12.217	1.64	18.22	0.80
0.233	0.58	6.233	2.10	12.233	1.64	18.23	0.80
0.250	0.58	6.250	2.10	12.250	1.64	18.25	0.80
0.267	0.58	6.267	2.10	12.267	1.64	18.27	0.80
0.283	0.58	6.283	2.10	12.283	1.64	18.28	0.80
0.300	0.58	6.300	2.10	12.300	1.64	18.30	0.80
0.317	0.58	6.317	2.10	12.317	1.64	18.32	0.80
0.333	0.58	6.333	2.10	12.333	1.64	18.33	0.80
0.350	0.59	6.350	2.30	12.350	1.59	18.35	0.79
0.367	0.59	6.367	2.30	12.367	1.59	18.37	0.79
0.383	0.59	6.383	2.30	12.383	1.59	18.38	0.79
0.400	0.59	6.400	2.30	12.400	1.59	18.40	0.79
0.417	0.59	6.417	2.30	12.417	1.59	18.42	0.79
0.433	0.59	6.433	2.30	12.433	1.59	18.43	0.79
0.450	0.59	6.450	2.30	12.450	1.59	18.45	0.79
0.467	0.59	6.467	2.30	12.467	1.59	18.47	0.79
0.483	0.59	6.483	2.30	12.483	1.59	18.48	0.79
0.500	0.59	6.500	2.30	12.500	1.59	18.50	0.79
0.517	0.60	6.517	2.55	12.517	1.55	18.52	0.78
0.533	0.60	6.533	2.55	12.533	1.55	18.53	0.78
0.550	0.60	6.550	2.55	12.550	1.55	18.55	0.78
0.567	0.60	6.567	2.55	12.567	1.55	18.57	0.78
0.583	0.60	6.583	2.55	12.583	1.55	18.58	0.78
0.600	0.60	6.600	2.55	12.600	1.55	18.60	0.78
0.617	0.60	6.617	2.55	12.617	1.55	18.62	0.78
0.633	0.60	6.633	2.55	12.633	1.55	18.63	0.78
0.650	0.60	6.650	2.55	12.650	1.55	18.65	0.78
0.667	0.60	6.667	2.55	12.667	1.55	18.67	0.78
0.683	0.61	6.683	2.88	12.683	1.50	18.68	0.77
0.700	0.61	6.700	2.88	12.700	1.50	18.70	0.77
0.717	0.61	6.717	2.88	12.717	1.50	18.72	0.77
0.733	0.61	6.733	2.88	12.733	1.50	18.73	0.77
0.750	0.61	6.750	2.88	12.750	1.50	18.75	0.77
0.767	0.61	6.767	2.88	12.767	1.50	18.77	0.77
0.783	0.61	6.783	2.88	12.783	1.50	18.78	0.77
0.800	0.61	6.800	2.88	12.800	1.50	18.80	0.77
0.817	0.61	6.817	2.88	12.817	1.50	18.82	0.77
0.833	0.61	6.833	2.88	12.833	1.50	18.83	0.77
0.850	0.63	6.850	3.31	12.850	1.46	18.85	0.76
0.867	0.63	6.867	3.31	12.867	1.46	18.87	0.76
0.883	0.63	6.883	3.31	12.883	1.46	18.88	0.76
0.900	0.63	6.900	3.31	12.900	1.46	18.90	0.76
0.917	0.63	6.917	3.31	12.917	1.46	18.92	0.76
0.933	0.63	6.933	3.31	12.933	1.46	18.93	0.76
0.950	0.63	6.950	3.31	12.950	1.46	18.95	0.76
0.967	0.63	6.967	3.31	12.967	1.46	18.97	0.76
0.983	0.63	6.983	3.31	12.983	1.46	18.98	0.76
1.000	0.63	7.000	3.31	13.000	1.46	19.00	0.76
1.017	0.64	7.017	3.92	13.017	1.42	19.02	0.75
1.033	0.64	7.033	3.92	13.033	1.42	19.03	0.75
1.050	0.64	7.050	3.92	13.050	1.42	19.05	0.75
1.067	0.64	7.067	3.92	13.067	1.42	19.07	0.75
1.083	0.64	7.083	3.92	13.083	1.42	19.08	0.75
1.100	0.64	7.100	3.92	13.100	1.42	19.10	0.75
1.117	0.64	7.117	3.92	13.117	1.42	19.12	0.75
1.133	0.64	7.133	3.92	13.133	1.42	19.13	0.75
1.150	0.64	7.150	3.92	13.150	1.42	19.15	0.75
1.167	0.64	7.167	3.92	13.167	1.42	19.17	0.75
1.183	0.65	7.183	4.85	13.183	1.38	19.18	0.74
1.200	0.65	7.200	4.85	13.200	1.38	19.20	0.74
1.217	0.65	7.217	4.85	13.217	1.38	19.22	0.74
1.233	0.65	7.233	4.85	13.233	1.38	19.23	0.74
1.250	0.65	7.250	4.85	13.250	1.38	19.25	0.74
1.267	0.65	7.267	4.85	13.267	1.38	19.27	0.74
1.283	0.65	7.283	4.85	13.283	1.38	19.28	0.74
1.300	0.65	7.300	4.85	13.300	1.38	19.30	0.74
1.317	0.65	7.317	4.85	13.317	1.38	19.32	0.74
1.333	0.65	7.333	4.85	13.333	1.38	19.33	0.74
1.350	0.67	7.350	6.45	13.350	1.35	19.35	0.73
1.367	0.67	7.367	6.45	13.367	1.35	19.37	0.73
1.383	0.67	7.383	6.45	13.383	1.35	19.38	0.73
1.400	0.67	7.400	6.45	13.400	1.35	19.40	0.73
1.417	0.67	7.417	6.45	13.417	1.35	19.42	0.73
1.433	0.67	7.433	6.45	13.433	1.35	19.43	0.73
1.450	0.67	7.450	6.45	13.450	1.35	19.45	0.73
1.467	0.67	7.467	6.45	13.467	1.35	19.47	0.73
1.483	0.67	7.483	6.45	13.483	1.35	19.48	0.73
1.500	0.67	7.500	6.46	13.500	1.35	19.50	0.73
1.517	0.68	7.517	9.95	13.517	1.31	19.52	0.72
1.533	0.68	7.533	9.95	13.533	1.31	19.53	0.72
1.550	0.68	7.550	9.95	13.550	1.31	19.55	0.72
1.567	0.68	7.567	9.95	13.567	1.31	19.57	0.72
1.583	0.68	7.583	9.95	13.583	1.31	19.58	0.72
1.600	0.68	7.600	9.95	13.600	1.31	19.60	0.72
1.617	0.68	7.617	9.95	13.617	1.31	19.62	0.72
1.633	0.68	7.633	9.95	13.633	1.31	19.63	0.72
1.650	0.68	7.650	9.95	13.650	1.31	19.65	0.72
1.667	0.68	7.667	9.99	13.667	1.31	19.67	0.72
1.683	0.70	7.683	24.45	13.683	1.28	19.68	0.72
1.700	0.70	7.700	24.45	13.700	1.28	19.70	0.72
1.717	0.70	7.717	24.45	13.717	1.28	19.72	0.72
1.733	0.70	7.733	24.45	13.733	1.28	19.73	0.72
1.750	0.70	7.750	24.45	13.750	1.28	19.75	0.72
1.767	0.70	7.767	24.45	13.767	1.28	19.77	0.72
1.783	0.70	7.783	24.45	13.783	1.28	19.78	0.72
1.800	0.70	7.800	24.45	13.800	1.28	19.80	0.72
1.817	0.70	7.817	24.45	13.817	1.28	19.82	0.72
1.833	0.70	7.833	24.68	13.833	1.28	19.83	0.72
1.850	0.71	7.850	105.25	13.850	1.25	19.85	0.71
1.867	0.71	7.867	105.25	13.867	1.25	19.87	0.71
1.883	0.71	7.883	105.25	13.883	1.25	19.88	0.71
1.900	0.71	7.900	105.25	13.900	1.25	19.90	0.71
1.917	0.71	7.917	105.25	13.917	1.25	19.92	0.71
1.933	0.71	7.933	105.25	13.933	1.25	19.93	0.71
1.950	0.71	7.950	105.25	13.950	1.25	19.95	0.71
1.967	0.71	7.967	105.25	13.967	1.25	19.97	0.71
1.983	0.71	7.983	105.25	13.983	1.25	19.98	0.71
2.000	0.71	8.000	105.04	14.000	1.25	20.00	0.71
2.017	0.73	8.017	32.26	14.017	1.23	20.02	0.70
2.033	0.73	8.033	32.26	14.033	1.23	20.03	0.70
2.050	0.73	8.050	32.26	14.050	1.23	20.05	0.70
2.067	0.73	8.067	32.26	14.067	1.23	20.07	0.70
2.083	0.73	8.083	32.26	14.083	1.23	20.08	0.70
2.100	0.73	8.100	32.26	14.100	1.23	20.10	0.70
2.117	0.73	8.117	32.26	14.117	1.23	20.12	0.70
2.133	0.73	8.133	32.26	14.133	1.23	20.13	0.70

2.150	0.73	8.150	32.26	14.150	1.23	20.15	0.70
2.167	0.73	8.167	32.21	14.167	1.23	20.17	0.70
2.183	0.75	8.183	16.67	14.183	1.20	20.18	0.69
2.200	0.75	8.200	16.67	14.200	1.20	20.20	0.69
2.217	0.75	8.217	16.67	14.217	1.20	20.22	0.69
2.233	0.75	8.233	16.67	14.233	1.20	20.23	0.69
2.250	0.75	8.250	16.67	14.250	1.20	20.25	0.69
2.267	0.75	8.267	16.67	14.267	1.20	20.27	0.69
2.283	0.75	8.283	16.67	14.283	1.20	20.28	0.69
2.300	0.75	8.300	16.67	14.300	1.20	20.30	0.69
2.317	0.75	8.317	16.67	14.317	1.20	20.32	0.69
2.333	0.75	8.333	16.66	14.333	1.20	20.33	0.69
2.350	0.76	8.350	11.31	14.350	1.17	20.35	0.69
2.367	0.76	8.367	11.31	14.367	1.17	20.37	0.69
2.383	0.76	8.383	11.31	14.383	1.17	20.38	0.69
2.400	0.76	8.400	11.31	14.400	1.17	20.40	0.69
2.417	0.76	8.417	11.31	14.417	1.17	20.42	0.69
2.433	0.76	8.433	11.31	14.433	1.17	20.43	0.69
2.450	0.76	8.450	11.31	14.450	1.17	20.45	0.69
2.467	0.76	8.467	11.31	14.467	1.17	20.47	0.69
2.483	0.76	8.483	11.31	14.483	1.17	20.48	0.69
2.500	0.76	8.500	11.30	14.500	1.17	20.50	0.69
2.517	0.78	8.517	8.62	14.517	1.15	20.52	0.68
2.533	0.78	8.533	8.62	14.533	1.15	20.53	0.68
2.550	0.78	8.550	8.62	14.550	1.15	20.55	0.68
2.567	0.78	8.567	8.62	14.567	1.15	20.57	0.68
2.583	0.78	8.583	8.62	14.583	1.15	20.58	0.68
2.600	0.78	8.600	8.62	14.600	1.15	20.60	0.68
2.617	0.78	8.617	8.62	14.617	1.15	20.62	0.68
2.633	0.78	8.633	8.62	14.633	1.15	20.63	0.68
2.650	0.78	8.650	8.62	14.650	1.15	20.65	0.68
2.667	0.78	8.667	8.61	14.667	1.15	20.67	0.68
2.683	0.80	8.683	7.00	14.683	1.13	20.68	0.67
2.700	0.80	8.700	7.00	14.700	1.13	20.70	0.67
2.717	0.80	8.717	7.00	14.717	1.13	20.72	0.67
2.733	0.80	8.733	7.00	14.733	1.13	20.73	0.67
2.750	0.80	8.750	7.00	14.750	1.13	20.75	0.67
2.767	0.80	8.767	7.00	14.767	1.13	20.77	0.67
2.783	0.80	8.783	7.00	14.783	1.13	20.78	0.67
2.800	0.80	8.800	7.00	14.800	1.13	20.80	0.67
2.817	0.80	8.817	7.00	14.817	1.13	20.82	0.67
2.833	0.80	8.833	7.00	14.833	1.13	20.83	0.67
2.850	0.83	8.850	5.92	14.850	1.10	20.85	0.66
2.867	0.83	8.867	5.92	14.867	1.10	20.87	0.66
2.883	0.83	8.883	5.92	14.883	1.10	20.88	0.66
2.900	0.83	8.900	5.92	14.900	1.10	20.90	0.66
2.917	0.83	8.917	5.92	14.917	1.10	20.92	0.66
2.933	0.83	8.933	5.92	14.933	1.10	20.93	0.66
2.950	0.83	8.950	5.92	14.950	1.10	20.95	0.66
2.967	0.83	8.967	5.92	14.967	1.10	20.97	0.66

2.983	0.83	8.983	5.92	14.983	1.10	20.98	0.66
3.000	0.83	9.000	5.92	15.000	1.10	21.00	0.66
3.017	0.85	9.017	5.14	15.017	1.08	21.02	0.66
3.033	0.85	9.033	5.14	15.033	1.08	21.03	0.66
3.050	0.85	9.050	5.14	15.050	1.08	21.05	0.66
3.067	0.85	9.067	5.14	15.067	1.08	21.07	0.66
3.083	0.85	9.083	5.14	15.083	1.08	21.08	0.66
3.100	0.85	9.100	5.14	15.100	1.08	21.10	0.66
3.117	0.85	9.117	5.14	15.117	1.08	21.12	0.66
3.133	0.85	9.133	5.14	15.133	1.08	21.13	0.66
3.150	0.85	9.150	5.14	15.150	1.08	21.15	0.66
3.167	0.85	9.167	5.14	15.167	1.08	21.17	0.66
3.183	0.88	9.183	4.56	15.183	1.06	21.18	0.65
3.200	0.88	9.200	4.56	15.200	1.06	21.20	0.65
3.217	0.88	9.217	4.56	15.217	1.06	21.22	0.65
3.233	0.88	9.233	4.56	15.233	1.06	21.23	0.65
3.250	0.88	9.250	4.56	15.250	1.06	21.25	0.65
3.267	0.88	9.267	4.56	15.267	1.06	21.27	0.65
3.283	0.88	9.283	4.56	15.283	1.06	21.28	0.65
3.300	0.88	9.300	4.56	15.300	1.06	21.30	0.65
3.317	0.88	9.317	4.56	15.317	1.06	21.32	0.65
3.333	0.88	9.333	4.56	15.333	1.06	21.33	0.65
3.350	0.90	9.350	4.11	15.350	1.04	21.35	0.64
3.367	0.90	9.367	4.11	15.367	1.04	21.37	0.64
3.383	0.90	9.383	4.11	15.383	1.04	21.38	0.64
3.400	0.90	9.400	4.11	15.400	1.04	21.40	0.64
3.417	0.90	9.417	4.11	15.417	1.04	21.42	0.64
3.433	0.90	9.433	4.11	15.433	1.04	21.43	0.64
3.450	0.90	9.450	4.11	15.450	1.04	21.45	0.64
3.467	0.90	9.467	4.11	15.467	1.04	21.47	0.64
3.483	0.90	9.483	4.11	15.483	1.04	21.48	0.64
3.500	0.90	9.500	4.10	15.500	1.04	21.50	0.64
3.517	0.93	9.517	3.74	15.517	1.02	21.52	0.64
3.533	0.93	9.533	3.74	15.533	1.02	21.53	0.64
3.550	0.93	9.550	3.74	15.550	1.02	21.55	0.64
3.567	0.93	9.567	3.74	15.567	1.02	21.57	0.64
3.583	0.93	9.583	3.74	15.583	1.02	21.58	0.64
3.600	0.93	9.600	3.74	15.600	1.02	21.60	0.64
3.617	0.93	9.617	3.74	15.617	1.02	21.62	0.64
3.633	0.93	9.633	3.74	15.633	1.02	21.63	0.64
3.650	0.93	9.650	3.74	15.650	1.02	21.65	0.64
3.667	0.93	9.667	3.74	15.667	1.02	21.67	0.64
3.683	0.96	9.683	3.44	15.683	1.01	21.68	0.63
3.700	0.96	9.700	3.44	15.700	1.01	21.70	0.63
3.717	0.96	9.717	3.44	15.717	1.01	21.72	0.63
3.733	0.96	9.733	3.44	15.733	1.01	21.73	0.63
3.750	0.96	9.750	3.44	15.750	1.01	21.75	0.63
3.767	0.96	9.767	3.44	15.767	1.01	21.77	0.63
3.783	0.96	9.783	3.44	15.783	1.01	21.78	0.63
3.800	0.96	9.800	3.44	15.800	1.01	21.80	0.63

3.817	0.96	9.817	3.44	15.817	1.01	21.82	0.63
3.833	0.96	9.833	3.44	15.833	1.01	21.83	0.63
3.850	1.00	9.850	3.19	15.850	0.99	21.85	0.62
3.867	1.00	9.867	3.19	15.867	0.99	21.87	0.62
3.883	1.00	9.883	3.19	15.883	0.99	21.88	0.62
3.900	1.00	9.900	3.19	15.900	0.99	21.90	0.62
3.917	1.00	9.917	3.19	15.917	0.99	21.92	0.62
3.933	1.00	9.933	3.19	15.933	0.99	21.93	0.62
3.950	1.00	9.950	3.19	15.950	0.99	21.95	0.62
3.967	1.00	9.967	3.19	15.967	0.99	21.97	0.62
3.983	1.00	9.983	3.19	15.983	0.99	21.98	0.62
4.000	1.00	10.000	3.19	16.000	0.99	22.00	0.62
4.017	1.03	10.017	2.97	16.017	0.97	22.02	0.62
4.033	1.03	10.033	2.97	16.033	0.97	22.03	0.62
4.050	1.03	10.050	2.97	16.050	0.97	22.05	0.62
4.067	1.03	10.067	2.97	16.067	0.97	22.07	0.62
4.083	1.03	10.083	2.97	16.083	0.97	22.08	0.62
4.100	1.03	10.100	2.97	16.100	0.97	22.10	0.62
4.117	1.03	10.117	2.97	16.117	0.97	22.12	0.62
4.133	1.03	10.133	2.97	16.133	0.97	22.13	0.62
4.150	1.03	10.150	2.97	16.150	0.97	22.15	0.62
4.167	1.03	10.167	2.97	16.167	0.97	22.17	0.62
4.183	1.07	10.183	2.79	16.183	0.96	22.18	0.61
4.200	1.07	10.200	2.79	16.200	0.96	22.20	0.61
4.217	1.07	10.217	2.79	16.217	0.96	22.22	0.61
4.233	1.07	10.233	2.79	16.233	0.96	22.23	0.61
4.250	1.07	10.250	2.79	16.250	0.96	22.25	0.61
4.267	1.07	10.267	2.79	16.267	0.96	22.27	0.61
4.283	1.07	10.283	2.79	16.283	0.96	22.28	0.61
4.300	1.07	10.300	2.79	16.300	0.96	22.30	0.61
4.317	1.07	10.317	2.79	16.317	0.96	22.32	0.61
4.333	1.07	10.333	2.79	16.333	0.96	22.33	0.61
4.350	1.11	10.350	2.63	16.350	0.94	22.35	0.61
4.367	1.11	10.367	2.63	16.367	0.94	22.37	0.61
4.383	1.11	10.383	2.63	16.383	0.94	22.38	0.61
4.400	1.11	10.400	2.63	16.400	0.94	22.40	0.61
4.417	1.11	10.417	2.63	16.417	0.94	22.42	0.61
4.433	1.11	10.433	2.63	16.433	0.94	22.43	0.61
4.450	1.11	10.450	2.63	16.450	0.94	22.45	0.61
4.467	1.11	10.467	2.63	16.467	0.94	22.47	0.61
4.483	1.11	10.483	2.63	16.483	0.94	22.48	0.61
4.500	1.11	10.500	2.62	16.500	0.94	22.50	0.61
4.517	1.16	10.517	2.48	16.517	0.92	22.52	0.60
4.533	1.16	10.533	2.48	16.533	0.92	22.53	0.60
4.550	1.16	10.550	2.48	16.550	0.92	22.55	0.60
4.567	1.16	10.567	2.48	16.567	0.92	22.57	0.60
4.583	1.16	10.583	2.48	16.583	0.92	22.58	0.60
4.600	1.16	10.600	2.48	16.600	0.92	22.60	0.60
4.617	1.16	10.617	2.48	16.617	0.92	22.62	0.60
4.633	1.16	10.633	2.48	16.633	0.92	22.63	0.60

4.650	1.16	10.650	2.48	16.650	0.92	22.65	0.60
4.667	1.16	10.667	2.48	16.667	0.92	22.67	0.60
4.683	1.21	10.683	2.36	16.683	0.91	22.68	0.60
4.700	1.21	10.700	2.36	16.700	0.91	22.70	0.60
4.717	1.21	10.717	2.36	16.717	0.91	22.72	0.60
4.733	1.21	10.733	2.36	16.733	0.91	22.73	0.60
4.750	1.21	10.750	2.36	16.750	0.91	22.75	0.60
4.767	1.21	10.767	2.36	16.767	0.91	22.77	0.60
4.783	1.21	10.783	2.36	16.783	0.91	22.78	0.60
4.800	1.21	10.800	2.36	16.800	0.91	22.80	0.60
4.817	1.21	10.817	2.36	16.817	0.91	22.82	0.60
4.833	1.21	10.833	2.36	16.833	0.91	22.83	0.60
4.850	1.27	10.850	2.25	16.850	0.90	22.85	0.59
4.867	1.27	10.867	2.25	16.867	0.90	22.87	0.59
4.883	1.27	10.883	2.25	16.883	0.90	22.88	0.59
4.900	1.27	10.900	2.25	16.900	0.90	22.90	0.59
4.917	1.27	10.917	2.25	16.917	0.90	22.92	0.59
4.933	1.27	10.933	2.25	16.933	0.90	22.93	0.59
4.950	1.27	10.950	2.25	16.950	0.90	22.95	0.59
4.967	1.27	10.967	2.25	16.967	0.90	22.97	0.59
4.983	1.27	10.983	2.25	16.983	0.90	22.98	0.59
5.000	1.27	11.000	2.25	17.000	0.90	23.00	0.59
5.017	1.33	11.017	2.14	17.017	0.88	23.02	0.59
5.033	1.33	11.033	2.14	17.033	0.88	23.03	0.59
5.050	1.33	11.050	2.14	17.050	0.88	23.05	0.59
5.067	1.33	11.067	2.14	17.067	0.88	23.07	0.59
5.083	1.33	11.083	2.14	17.083	0.88	23.08	0.59
5.100	1.33	11.100	2.14	17.100	0.88	23.10	0.59
5.117	1.33	11.117	2.14	17.117	0.88	23.12	0.59
5.133	1.33	11.133	2.14	17.133	0.88	23.13	0.59
5.150	1.33	11.150	2.14	17.150	0.88	23.15	0.59
5.167	1.33	11.167	2.14	17.167	0.88	23.17	0.59
5.183	1.40	11.183	2.05	17.183	0.87	23.18	0.58
5.200	1.40	11.200	2.05	17.200	0.87	23.20	0.58
5.217	1.40	11.217	2.05	17.217	0.87	23.22	0.58
5.233	1.40	11.233	2.05	17.233	0.87	23.23	0.58
5.250	1.40	11.250	2.05	17.250	0.87	23.25	0.58
5.267	1.40	11.267	2.05	17.267	0.87	23.27	0.58
5.283	1.40	11.283	2.05	17.283	0.87	23.28	0.58
5.300	1.40	11.300	2.05	17.300	0.87	23.30	0.58
5.317	1.40	11.317	2.05	17.317	0.87	23.32	0.58
5.333	1.40	11.333	2.05	17.333	0.87	23.33	0.58
5.350	1.48	11.350	1.97	17.350	0.86	23.35	0.57
5.367	1.48	11.367	1.97	17.367	0.86	23.37	0.57
5.383	1.48	11.383	1.97	17.383	0.86	23.38	0.57
5.400	1.48	11.400	1.97	17.400	0.86	23.40	0.57
5.417	1.48	11.417	1.97	17.417	0.86	23.42	0.57
5.433	1.48	11.433	1.97	17.433	0.86	23.43	0.57
5.450	1.48	11.450	1.97	17.450	0.86	23.45	0.57
5.467	1.48	11.467	1.97	17.467	0.86	23.47	0.57

5.483	1.48	11.483	1.97	17.483	0.86	23.48	0.57
5.500	1.48	11.500	1.97	17.500	0.86	23.50	0.57
5.517	1.57	11.517	1.89	17.517	0.85	23.52	0.57
5.533	1.57	11.533	1.89	17.533	0.85	23.53	0.57
5.550	1.57	11.550	1.89	17.550	0.85	23.55	0.57
5.567	1.57	11.567	1.89	17.567	0.85	23.57	0.57
5.583	1.57	11.583	1.89	17.583	0.85	23.58	0.57
5.600	1.57	11.600	1.89	17.600	0.85	23.60	0.57
5.617	1.57	11.617	1.89	17.617	0.85	23.62	0.57
5.633	1.57	11.633	1.89	17.633	0.85	23.63	0.57
5.650	1.57	11.650	1.89	17.650	0.85	23.65	0.57
5.667	1.57	11.667	1.89	17.667	0.85	23.67	0.57
5.683	1.67	11.683	1.82	17.683	0.83	23.68	0.57
5.700	1.67	11.700	1.82	17.700	0.83	23.70	0.57
5.717	1.67	11.717	1.82	17.717	0.83	23.72	0.57
5.733	1.67	11.733	1.82	17.733	0.83	23.73	0.57
5.750	1.67	11.750	1.82	17.750	0.83	23.75	0.57
5.767	1.67	11.767	1.82	17.767	0.83	23.77	0.57
5.783	1.67	11.783	1.82	17.783	0.83	23.78	0.57
5.800	1.67	11.800	1.82	17.800	0.83	23.80	0.57
5.817	1.67	11.817	1.82	17.817	0.83	23.82	0.57
5.833	1.67	11.833	1.82	17.833	0.83	23.83	0.57
5.850	1.79	11.850	1.76	17.850	0.82	23.85	0.56
5.867	1.79	11.867	1.76	17.867	0.82	23.87	0.56
5.883	1.79	11.883	1.76	17.883	0.82	23.88	0.56
5.900	1.79	11.900	1.76	17.900	0.82	23.90	0.56
5.917	1.79	11.917	1.76	17.917	0.82	23.92	0.56
5.933	1.79	11.933	1.76	17.933	0.82	23.93	0.56
5.950	1.79	11.950	1.76	17.950	0.82	23.95	0.56
5.967	1.79	11.967	1.76	17.967	0.82	23.97	0.56
5.983	1.79	11.983	1.76	17.983	0.82	23.98	0.56
6.000	1.79	12.000	1.76	18.000	0.82	24.00	0.56

Max.Eff.Inten.(mm/hr)=	105.25	54.30	
over (min)	5.00	13.00	
Storage Coeff. (min)=	5.05 (ii)	12.08 (ii)	
Unit Hyd. Tpeak (min)=	5.00	13.00	
Unit Hyd. peak (cms)=	0.22	0.09	
			TOTALS
PEAK FLOW (cms)=	1.87	0.66	2.277 (iii)
TIME TO PEAK (hrs)=	8.02	8.17	8.03
RUNOFF VOLUME (mm)=	66.04	36.01	50.73
TOTAL RAINFALL (mm)=	67.05	67.05	67.05
RUNOFF COEFFICIENT =	0.98	0.54	0.76

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 85.0 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			
STANDHYD (0002)	Area (ha)=	15.57	
ID= 1 DT= 1.0 min	Total Imp(%)=	49.00	Dir. Conn.(%)= 49.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	7.63	7.94
Dep. Storage	(mm)=	1.00	0.00
Average Slope	(%)=	1.00	2.00
Length	(m)=	322.18	40.00
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 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
0.017	0.57	6.017	1.93	12.017	1.70	18.02	0.81
0.033	0.57	6.033	1.93	12.033	1.70	18.03	0.81
0.050	0.57	6.050	1.93	12.050	1.70	18.05	0.81
0.067	0.57	6.067	1.93	12.067	1.70	18.07	0.81
0.083	0.57	6.083	1.93	12.083	1.70	18.08	0.81
0.100	0.57	6.100	1.93	12.100	1.70	18.10	0.81
0.117	0.57	6.117	1.93	12.117	1.70	18.12	0.81
0.133	0.57	6.133	1.93	12.133	1.70	18.13	0.81
0.150	0.57	6.150	1.93	12.150	1.70	18.15	0.81
0.167	0.57	6.167	1.93	12.167	1.70	18.17	0.81
0.183	0.58	6.183	2.10	12.183	1.64	18.18	0.80
0.200	0.58	6.200	2.10	12.200	1.64	18.20	0.80
0.217	0.58	6.217	2.10	12.217	1.64	18.22	0.80
0.233	0.58	6.233	2.10	12.233	1.64	18.23	0.80
0.250	0.58	6.250	2.10	12.250	1.64	18.25	0.80
0.267	0.58	6.267	2.10	12.267	1.64	18.27	0.80
0.283	0.58	6.283	2.10	12.283	1.64	18.28	0.80
0.300	0.58	6.300	2.10	12.300	1.64	18.30	0.80
0.317	0.58	6.317	2.10	12.317	1.64	18.32	0.80
0.333	0.58	6.333	2.10	12.333	1.64	18.33	0.80
0.350	0.59	6.350	2.30	12.350	1.59	18.35	0.79
0.367	0.59	6.367	2.30	12.367	1.59	18.37	0.79
0.383	0.59	6.383	2.30	12.383	1.59	18.38	0.79
0.400	0.59	6.400	2.30	12.400	1.59	18.40	0.79
0.417	0.59	6.417	2.30	12.417	1.59	18.42	0.79
0.433	0.59	6.433	2.30	12.433	1.59	18.43	0.79
0.450	0.59	6.450	2.30	12.450	1.59	18.45	0.79
0.467	0.59	6.467	2.30	12.467	1.59	18.47	0.79
0.483	0.59	6.483	2.30	12.483	1.59	18.48	0.79
0.500	0.59	6.500	2.30	12.500	1.59	18.50	0.79
0.517	0.60	6.517	2.55	12.517	1.55	18.52	0.78
0.533	0.60	6.533	2.55	12.533	1.55	18.53	0.78
0.550	0.60	6.550	2.55	12.550	1.55	18.55	0.78
0.567	0.60	6.567	2.55	12.567	1.55	18.57	0.78
0.583	0.60	6.583	2.55	12.583	1.55	18.58	0.78
0.600	0.60	6.600	2.55	12.600	1.55	18.60	0.78
0.617	0.60	6.617	2.55	12.617	1.55	18.62	0.78
0.633	0.60	6.633	2.55	12.633	1.55	18.63	0.78
0.650	0.60	6.650	2.55	12.650	1.55	18.65	0.78
0.667	0.60	6.667	2.55	12.667	1.55	18.67	0.78
0.683	0.61	6.683	2.88	12.683	1.50	18.68	0.77
0.700	0.61	6.700	2.88	12.700	1.50	18.70	0.77
0.717	0.61	6.717	2.88	12.717	1.50	18.72	0.77
0.733	0.61	6.733	2.88	12.733	1.50	18.73	0.77
0.750	0.61	6.750	2.88	12.750	1.50	18.75	0.77
0.767	0.61	6.767	2.88	12.767	1.50	18.77	0.77
0.783	0.61	6.783	2.88	12.783	1.50	18.78	0.77
0.800	0.61	6.800	2.88	12.800	1.50	18.80	0.77
0.817	0.61	6.817	2.88	12.817	1.50	18.82	0.77
0.833	0.61	6.833	2.88	12.833	1.50	18.83	0.77
0.850	0.63	6.850	3.31	12.850	1.46	18.85	0.76
0.867	0.63	6.867	3.31	12.867	1.46	18.87	0.76
0.883	0.63	6.883	3.31	12.883	1.46	18.88	0.76
0.900	0.63	6.900	3.31	12.900	1.46	18.90	0.76
0.917	0.63	6.917	3.31	12.917	1.46	18.92	0.76
0.933	0.63	6.933	3.31	12.933	1.46	18.93	0.76
0.950	0.63	6.950	3.31	12.950	1.46	18.95	0.76
0.967	0.63	6.967	3.31	12.967	1.46	18.97	0.76
0.983	0.63	6.983	3.31	12.983	1.46	18.98	0.76
1.000	0.63	7.000	3.31	13.000	1.46	19.00	0.76
1.017	0.64	7.017	3.92	13.017	1.42	19.02	0.75
1.033	0.64	7.033	3.92	13.033	1.42	19.03	0.75
1.050	0.64	7.050	3.92	13.050	1.42	19.05	0.75
1.067	0.64	7.067	3.92	13.067	1.42	19.07	0.75
1.083	0.64	7.083	3.92	13.083	1.42	19.08	0.75
1.100	0.64	7.100	3.92	13.100	1.42	19.10	0.75
1.117	0.64	7.117	3.92	13.117	1.42	19.12	0.75
1.133	0.64	7.133	3.92	13.133	1.42	19.13	0.75
1.150	0.64	7.150	3.92	13.150	1.42	19.15	0.75
1.167	0.64	7.167	3.92	13.167	1.42	19.17	0.75
1.183	0.65	7.183	4.85	13.183	1.38	19.18	0.74
1.200	0.65	7.200	4.85	13.200	1.38	19.20	0.74
1.217	0.65	7.217	4.85	13.217	1.38	19.22	0.74
1.233	0.65	7.233	4.85	13.233	1.38	19.23	0.74
1.250	0.65	7.250	4.85	13.250	1.38	19.25	0.74
1.267	0.65	7.267	4.85	13.267	1.38	19.27	0.74
1.283	0.65	7.283	4.85	13.283	1.38	19.28	0.74
1.300	0.65	7.300	4.85	13.300	1.38	19.30	0.74
1.317	0.65	7.317	4.85	13.317	1.38	19.32	0.74
1.333	0.65	7.333	4.85	13.333	1.38	19.33	0.74
1.350	0.67	7.350	6.45	13.350	1.35	19.35	0.73
1.367	0.67	7.367	6.45	13.367	1.35	19.37	0.73
1.383	0.67	7.383	6.45	13.383	1.35	19.38	0.73
1.400	0.67	7.400	6.45	13.400	1.35	19.40	0.73
1.417	0.67	7.417	6.45	13.417	1.35	19.42	0.73
1.433	0.67	7.433	6.45	13.433	1.35	19.43	0.73
1.450	0.67	7.450	6.45	13.450	1.35	19.45	0.73
1.467	0.67	7.467	6.45	13.467	1.35	19.47	0.73
1.483	0.67	7.483	6.45	13.483	1.35	19.48	0.73
1.500	0.67	7.500	6.46	13.500	1.35	19.50	0.73
1.517	0.68	7.517	9.95	13.517	1.31	19.52	0.72
1.533	0.68	7.533	9.95	13.533	1.31	19.53	0.72
1.550	0.68	7.550	9.95	13.550	1.31	19.55	0.72
1.567	0.68	7.567	9.95	13.567	1.31	19.57	0.72
1.583	0.68	7.583	9.95	13.583	1.31	19.58	0.72
1.600	0.68	7.600	9.95	13.600	1.31	19.60	0.72
1.617	0.68	7.617	9.95	13.617	1.31	19.62	0.72
1.633	0.68	7.633	9.95	13.633	1.31	19.63	0.72
1.650	0.68	7.650	9.95	13.650	1.31	19.65	0.72
1.667	0.68	7.667	9.99	13.667	1.31	19.67	0.72
1.683	0.70	7.683	24.45	13.683	1.28	19.68	0.72
1.700	0.70	7.700	24.45	13.700	1.28	19.70	0.72
1.717	0.70	7.717	24.45	13.717	1.28	19.72	0.72
1.733	0.70	7.733	24.45	13.733	1.28	19.73	0.72
1.750	0.70	7.750	24.45	13.750	1.28	19.75	0.72
1.767	0.70	7.767	24.45	13.767	1.28	19.77	0.72
1.783	0.70	7.783	24.45	13.783	1.28	19.78	0.72
1.800	0.70	7.800	24.45	13.800	1.28	19.80	0.72
1.817	0.70	7.817	24.45	13.817	1.28	19.82	0.72
1.833	0.70	7.833	24.68	13.833	1.28	19.83	0.72
1.850	0.71	7.850	105.25	13.850	1.25	19.85	0.71
1.867	0.71	7.867	105.25	13.867	1.25	19.87	0.71
1.883	0.71	7.883	105.25	13.883	1.25	19.88	0.71
1.900	0.71	7.900	105.25	13.900	1.25	19.90	0.71
1.917	0.71	7.917	105.25	13.917	1.25	19.92	0.71
1.933	0.71	7.933	105.25	13.933	1.25	19.93	0.71
1.950	0.71	7.950	105.25	13.950	1.25	19.95	0.71
1.967	0.71	7.967	105.25	13.967	1.25	19.97	0.71
1.983	0.71	7.983	105.25	13.983	1.25	19.98	0.71
2.000	0.71	8.000	105.04	14.000	1.25	20.00	0.71
2.017	0.73	8.017	32.26	14.017	1.23	20.02	0.70
2.033	0.73	8.033	32.26	14.033	1.23	20.03	0.70
2.050	0.73	8.050	32.26	14.050	1.23	20.05	0.70
2.067	0.73	8.067	32.26	14.067	1.23	20.07	0.70
2.083	0.73	8.083	32.26	14.083	1.23	20.08	0.70
2.100	0.73	8.100	32.26	14.100	1.23	20.10	0.70
2.117	0.73	8.117	32.26	14.117	1.23	20.12	0.70
2.133	0.73	8.133	32.26	14.133	1.23	20.13	0.70
2.150	0.73	8.150	32.26	14.150	1.23	20.15	0.70

2.167	0.73	8.167	32.21	14.167	1.23	20.17	0.70
2.183	0.75	8.183	16.67	14.183	1.20	20.18	0.69
2.200	0.75	8.200	16.67	14.200	1.20	20.20	0.69
2.217	0.75	8.217	16.67	14.217	1.20	20.22	0.69
2.233	0.75	8.233	16.67	14.233	1.20	20.23	0.69
2.250	0.75	8.250	16.67	14.250	1.20	20.25	0.69
2.267	0.75	8.267	16.67	14.267	1.20	20.27	0.69
2.283	0.75	8.283	16.67	14.283	1.20	20.28	0.69
2.300	0.75	8.300	16.67	14.300	1.20	20.30	0.69
2.317	0.75	8.317	16.67	14.317	1.20	20.32	0.69
2.333	0.75	8.333	16.66	14.333	1.20	20.33	0.69
2.350	0.76	8.350	11.31	14.350	1.17	20.35	0.69
2.367	0.76	8.367	11.31	14.367	1.17	20.37	0.69
2.383	0.76	8.383	11.31	14.383	1.17	20.38	0.69
2.400	0.76	8.400	11.31	14.400	1.17	20.40	0.69
2.417	0.76	8.417	11.31	14.417	1.17	20.42	0.69
2.433	0.76	8.433	11.31	14.433	1.17	20.43	0.69
2.450	0.76	8.450	11.31	14.450	1.17	20.45	0.69
2.467	0.76	8.467	11.31	14.467	1.17	20.47	0.69
2.483	0.76	8.483	11.31	14.483	1.17	20.48	0.69
2.500	0.76	8.500	11.30	14.500	1.17	20.50	0.69
2.517	0.78	8.517	8.62	14.517	1.15	20.52	0.68
2.533	0.78	8.533	8.62	14.533	1.15	20.53	0.68
2.550	0.78	8.550	8.62	14.550	1.15	20.55	0.68
2.567	0.78	8.567	8.62	14.567	1.15	20.57	0.68
2.583	0.78	8.583	8.62	14.583	1.15	20.58	0.68
2.600	0.78	8.600	8.62	14.600	1.15	20.60	0.68
2.617	0.78	8.617	8.62	14.617	1.15	20.62	0.68
2.633	0.78	8.633	8.62	14.633	1.15	20.63	0.68
2.650	0.78	8.650	8.62	14.650	1.15	20.65	0.68
2.667	0.78	8.667	8.61	14.667	1.15	20.67	0.68
2.683	0.80	8.683	7.00	14.683	1.13	20.68	0.67
2.700	0.80	8.700	7.00	14.700	1.13	20.70	0.67
2.717	0.80	8.717	7.00	14.717	1.13	20.72	0.67
2.733	0.80	8.733	7.00	14.733	1.13	20.73	0.67
2.750	0.80	8.750	7.00	14.750	1.13	20.75	0.67
2.767	0.80	8.767	7.00	14.767	1.13	20.77	0.67
2.783	0.80	8.783	7.00	14.783	1.13	20.78	0.67
2.800	0.80	8.800	7.00	14.800	1.13	20.80	0.67
2.817	0.80	8.817	7.00	14.817	1.13	20.82	0.67
2.833	0.80	8.833	7.00	14.833	1.13	20.83	0.67
2.850	0.83	8.850	5.92	14.850	1.10	20.85	0.66
2.867	0.83	8.867	5.92	14.867	1.10	20.87	0.66
2.883	0.83	8.883	5.92	14.883	1.10	20.88	0.66
2.900	0.83	8.900	5.92	14.900	1.10	20.90	0.66
2.917	0.83	8.917	5.92	14.917	1.10	20.92	0.66
2.933	0.83	8.933	5.92	14.933	1.10	20.93	0.66
2.950	0.83	8.950	5.92	14.950	1.10	20.95	0.66
2.967	0.83	8.967	5.92	14.967	1.10	20.97	0.66
2.983	0.83	8.983	5.92	14.983	1.10	20.98	0.66

3.000	0.83	9.000	5.92	15.000	1.10	21.00	0.66
3.017	0.85	9.017	5.14	15.017	1.08	21.02	0.66
3.033	0.85	9.033	5.14	15.033	1.08	21.03	0.66
3.050	0.85	9.050	5.14	15.050	1.08	21.05	0.66
3.067	0.85	9.067	5.14	15.067	1.08	21.07	0.66
3.083	0.85	9.083	5.14	15.083	1.08	21.08	0.66
3.100	0.85	9.100	5.14	15.100	1.08	21.10	0.66
3.117	0.85	9.117	5.14	15.117	1.08	21.12	0.66
3.133	0.85	9.133	5.14	15.133	1.08	21.13	0.66
3.150	0.85	9.150	5.14	15.150	1.08	21.15	0.66
3.167	0.85	9.167	5.14	15.167	1.08	21.17	0.66
3.183	0.88	9.183	4.56	15.183	1.06	21.18	0.65
3.200	0.88	9.200	4.56	15.200	1.06	21.20	0.65
3.217	0.88	9.217	4.56	15.217	1.06	21.22	0.65
3.233	0.88	9.233	4.56	15.233	1.06	21.23	0.65
3.250	0.88	9.250	4.56	15.250	1.06	21.25	0.65
3.267	0.88	9.267	4.56	15.267	1.06	21.27	0.65
3.283	0.88	9.283	4.56	15.283	1.06	21.28	0.65
3.300	0.88	9.300	4.56	15.300	1.06	21.30	0.65
3.317	0.88	9.317	4.56	15.317	1.06	21.32	0.65
3.333	0.88	9.333	4.56	15.333	1.06	21.33	0.65
3.350	0.90	9.350	4.11	15.350	1.04	21.35	0.64
3.367	0.90	9.367	4.11	15.367	1.04	21.37	0.64
3.383	0.90	9.383	4.11	15.383	1.04	21.38	0.64
3.400	0.90	9.400	4.11	15.400	1.04	21.40	0.64
3.417	0.90	9.417	4.11	15.417	1.04	21.42	0.64
3.433	0.90	9.433	4.11	15.433	1.04	21.43	0.64
3.450	0.90	9.450	4.11	15.450	1.04	21.45	0.64
3.467	0.90	9.467	4.11	15.467	1.04	21.47	0.64
3.483	0.90	9.483	4.11	15.483	1.04	21.48	0.64
3.500	0.90	9.500	4.10	15.500	1.04	21.50	0.64
3.517	0.93	9.517	3.74	15.517	1.02	21.52	0.64
3.533	0.93	9.533	3.74	15.533	1.02	21.53	0.64
3.550	0.93	9.550	3.74	15.550	1.02	21.55	0.64
3.567	0.93	9.567	3.74	15.567	1.02	21.57	0.64
3.583	0.93	9.583	3.74	15.583	1.02	21.58	0.64
3.600	0.93	9.600	3.74	15.600	1.02	21.60	0.64
3.617	0.93	9.617	3.74	15.617	1.02	21.62	0.64
3.633	0.93	9.633	3.74	15.633	1.02	21.63	0.64
3.650	0.93	9.650	3.74	15.650	1.02	21.65	0.64
3.667	0.93	9.667	3.74	15.667	1.02	21.67	0.64
3.683	0.96	9.683	3.44	15.683	1.01	21.68	0.63
3.700	0.96	9.700	3.44	15.700	1.01	21.70	0.63
3.717	0.96	9.717	3.44	15.717	1.01	21.72	0.63
3.733	0.96	9.733	3.44	15.733	1.01	21.73	0.63
3.750	0.96	9.750	3.44	15.750	1.01	21.75	0.63
3.767	0.96	9.767	3.44	15.767	1.01	21.77	0.63
3.783	0.96	9.783	3.44	15.783	1.01	21.78	0.63
3.800	0.96	9.800	3.44	15.800	1.01	21.80	0.63
3.817	0.96	9.817	3.44	15.817	1.01	21.82	0.63

3.833	0.96	9.833	3.44	15.833	1.01	21.83	0.63
3.850	1.00	9.850	3.19	15.850	0.99	21.85	0.62
3.867	1.00	9.867	3.19	15.867	0.99	21.87	0.62
3.883	1.00	9.883	3.19	15.883	0.99	21.88	0.62
3.900	1.00	9.900	3.19	15.900	0.99	21.90	0.62
3.917	1.00	9.917	3.19	15.917	0.99	21.92	0.62
3.933	1.00	9.933	3.19	15.933	0.99	21.93	0.62
3.950	1.00	9.950	3.19	15.950	0.99	21.95	0.62
3.967	1.00	9.967	3.19	15.967	0.99	21.97	0.62
3.983	1.00	9.983	3.19	15.983	0.99	21.98	0.62
4.000	1.00	10.000	3.19	16.000	0.99	22.00	0.62
4.017	1.03	10.017	2.97	16.017	0.97	22.02	0.62
4.033	1.03	10.033	2.97	16.033	0.97	22.03	0.62
4.050	1.03	10.050	2.97	16.050	0.97	22.05	0.62
4.067	1.03	10.067	2.97	16.067	0.97	22.07	0.62
4.083	1.03	10.083	2.97	16.083	0.97	22.08	0.62
4.100	1.03	10.100	2.97	16.100	0.97	22.10	0.62
4.117	1.03	10.117	2.97	16.117	0.97	22.12	0.62
4.133	1.03	10.133	2.97	16.133	0.97	22.13	0.62
4.150	1.03	10.150	2.97	16.150	0.97	22.15	0.62
4.167	1.03	10.167	2.97	16.167	0.97	22.17	0.62
4.183	1.07	10.183	2.79	16.183	0.96	22.18	0.61
4.200	1.07	10.200	2.79	16.200	0.96	22.20	0.61
4.217	1.07	10.217	2.79	16.217	0.96	22.22	0.61
4.233	1.07	10.233	2.79	16.233	0.96	22.23	0.61
4.250	1.07	10.250	2.79	16.250	0.96	22.25	0.61
4.267	1.07	10.267	2.79	16.267	0.96	22.27	0.61
4.283	1.07	10.283	2.79	16.283	0.96	22.28	0.61
4.300	1.07	10.300	2.79	16.300	0.96	22.30	0.61
4.317	1.07	10.317	2.79	16.317	0.96	22.32	0.61
4.333	1.07	10.333	2.79	16.333	0.96	22.33	0.61
4.350	1.11	10.350	2.63	16.350	0.94	22.35	0.61
4.367	1.11	10.367	2.63	16.367	0.94	22.37	0.61
4.383	1.11	10.383	2.63	16.383	0.94	22.38	0.61
4.400	1.11	10.400	2.63	16.400	0.94	22.40	0.61
4.417	1.11	10.417	2.63	16.417	0.94	22.42	0.61
4.433	1.11	10.433	2.63	16.433	0.94	22.43	0.61
4.450	1.11	10.450	2.63	16.450	0.94	22.45	0.61
4.467	1.11	10.467	2.63	16.467	0.94	22.47	0.61
4.483	1.11	10.483	2.63	16.483	0.94	22.48	0.61
4.500	1.11	10.500	2.62	16.500	0.94	22.50	0.61
4.517	1.16	10.517	2.48	16.517	0.92	22.52	0.60
4.533	1.16	10.533	2.48	16.533	0.92	22.53	0.60
4.550	1.16	10.550	2.48	16.550	0.92	22.55	0.60
4.567	1.16	10.567	2.48	16.567	0.92	22.57	0.60
4.583	1.16	10.583	2.48	16.583	0.92	22.58	0.60
4.600	1.16	10.600	2.48	16.600	0.92	22.60	0.60
4.617	1.16	10.617	2.48	16.617	0.92	22.62	0.60
4.633	1.16	10.633	2.48	16.633	0.92	22.63	0.60
4.650	1.16	10.650	2.48	16.650	0.92	22.65	0.60

4.667	1.16	10.667	2.48	16.667	0.92	22.67	0.60
4.683	1.21	10.683	2.36	16.683	0.91	22.68	0.60
4.700	1.21	10.700	2.36	16.700	0.91	22.70	0.60
4.717	1.21	10.717	2.36	16.717	0.91	22.72	0.60
4.733	1.21	10.733	2.36	16.733	0.91	22.73	0.60
4.750	1.21	10.750	2.36	16.750	0.91	22.75	0.60
4.767	1.21	10.767	2.36	16.767	0.91	22.77	0.60
4.783	1.21	10.783	2.36	16.783	0.91	22.78	0.60
4.800	1.21	10.800	2.36	16.800	0.91	22.80	0.60
4.817	1.21	10.817	2.36	16.817	0.91	22.82	0.60
4.833	1.21	10.833	2.36	16.833	0.91	22.83	0.60
4.850	1.27	10.850	2.25	16.850	0.90	22.85	0.59
4.867	1.27	10.867	2.25	16.867	0.90	22.87	0.59
4.883	1.27	10.883	2.25	16.883	0.90	22.88	0.59
4.900	1.27	10.900	2.25	16.900	0.90	22.90	0.59
4.917	1.27	10.917	2.25	16.917	0.90	22.92	0.59
4.933	1.27	10.933	2.25	16.933	0.90	22.93	0.59
4.950	1.27	10.950	2.25	16.950	0.90	22.95	0.59
4.967	1.27	10.967	2.25	16.967	0.90	22.97	0.59
4.983	1.27	10.983	2.25	16.983	0.90	22.98	0.59
5.000	1.27	11.000	2.25	17.000	0.90	23.00	0.59
5.017	1.33	11.017	2.14	17.017	0.88	23.02	0.59
5.033	1.33	11.033	2.14	17.033	0.88	23.03	0.59
5.050	1.33	11.050	2.14	17.050	0.88	23.05	0.59
5.067	1.33	11.067	2.14	17.067	0.88	23.07	0.59
5.083	1.33	11.083	2.14	17.083	0.88	23.08	0.59
5.100	1.33	11.100	2.14	17.100	0.88	23.10	0.59
5.117	1.33	11.117	2.14	17.117	0.88	23.12	0.59
5.133	1.33	11.133	2.14	17.133	0.88	23.13	0.59
5.150	1.33	11.150	2.14	17.150	0.88	23.15	0.59
5.167	1.33	11.167	2.14	17.167	0.88	23.17	0.59
5.183	1.40	11.183	2.05	17.183	0.87	23.18	0.58
5.200	1.40	11.200	2.05	17.200	0.87	23.20	0.58
5.217	1.40	11.217	2.05	17.217	0.87	23.22	0.58
5.233	1.40	11.233	2.05	17.233	0.87	23.23	0.58
5.250	1.40	11.250	2.05	17.250	0.87	23.25	0.58
5.267	1.40	11.267	2.05	17.267	0.87	23.27	0.58
5.283	1.40	11.283	2.05	17.283	0.87	23.28	0.58
5.300	1.40	11.300	2.05	17.300	0.87	23.30	0.58
5.317	1.40	11.317	2.05	17.317	0.87	23.32	0.58
5.333	1.40	11.333	2.05	17.333	0.87	23.33	0.58
5.350	1.48	11.350	1.97	17.350	0.86	23.35	0.57
5.367	1.48	11.367	1.97	17.367	0.86	23.37	0.57
5.383	1.48	11.383	1.97	17.383	0.86	23.38	0.57
5.400	1.48	11.400	1.97	17.400	0.86	23.40	0.57
5.417	1.48	11.417	1.97	17.417	0.86	23.42	0.57
5.433	1.48	11.433	1.97	17.433	0.86	23.43	0.57
5.450	1.48	11.450	1.97	17.450	0.86	23.45	0.57
5.467	1.48	11.467	1.97	17.467	0.86	23.47	0.57
5.483	1.48	11.483	1.97	17.483	0.86	23.48	0.57

5.500	1.48	11.500	1.97	17.500	0.86	23.50	0.57
5.517	1.57	11.517	1.89	17.517	0.85	23.52	0.57
5.533	1.57	11.533	1.89	17.533	0.85	23.53	0.57
5.550	1.57	11.550	1.89	17.550	0.85	23.55	0.57
5.567	1.57	11.567	1.89	17.567	0.85	23.57	0.57
5.583	1.57	11.583	1.89	17.583	0.85	23.58	0.57
5.600	1.57	11.600	1.89	17.600	0.85	23.60	0.57
5.617	1.57	11.617	1.89	17.617	0.85	23.62	0.57
5.633	1.57	11.633	1.89	17.633	0.85	23.63	0.57
5.650	1.57	11.650	1.89	17.650	0.85	23.65	0.57
5.667	1.57	11.667	1.89	17.667	0.85	23.67	0.57
5.683	1.67	11.683	1.82	17.683	0.83	23.68	0.57
5.700	1.67	11.700	1.82	17.700	0.83	23.70	0.57
5.717	1.67	11.717	1.82	17.717	0.83	23.72	0.57
5.733	1.67	11.733	1.82	17.733	0.83	23.73	0.57
5.750	1.67	11.750	1.82	17.750	0.83	23.75	0.57
5.767	1.67	11.767	1.82	17.767	0.83	23.77	0.57
5.783	1.67	11.783	1.82	17.783	0.83	23.78	0.57
5.800	1.67	11.800	1.82	17.800	0.83	23.80	0.57
5.817	1.67	11.817	1.82	17.817	0.83	23.82	0.57
5.833	1.67	11.833	1.82	17.833	0.83	23.83	0.57
5.850	1.79	11.850	1.76	17.850	0.82	23.85	0.56
5.867	1.79	11.867	1.76	17.867	0.82	23.87	0.56
5.883	1.79	11.883	1.76	17.883	0.82	23.88	0.56
5.900	1.79	11.900	1.76	17.900	0.82	23.90	0.56
5.917	1.79	11.917	1.76	17.917	0.82	23.92	0.56
5.933	1.79	11.933	1.76	17.933	0.82	23.93	0.56
5.950	1.79	11.950	1.76	17.950	0.82	23.95	0.56
5.967	1.79	11.967	1.76	17.967	0.82	23.97	0.56
5.983	1.79	11.983	1.76	17.983	0.82	23.98	0.56
6.000	1.79	12.000	1.76	18.000	0.82	24.00	0.56

Max.Eff.Inten.(mm/hr)=	105.25	88.35	
over (min)	5.00	13.00	
Storage Coeff. (min)=	5.05 (ii)	12.08 (ii)	
Unit Hyd. Tpeak (min)=	5.00	13.00	
Unit Hyd. peak (cms)=	0.22	0.09	
			TOTALS
PEAK FLOW (cms)=	1.87	1.07	2.627 (iii)
TIME TO PEAK (hrs)=	8.02	8.15	8.03
RUNOFF VOLUME (mm)=	66.04	53.97	59.90
TOTAL RAINFALL (mm)=	67.05	67.05	67.05
RUNOFF COEFFICIENT =	0.98	0.80	0.89

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 94.0 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.

```
       V    V   I    SSSSS  U   U    A    L              (v 6.2.2019)
       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

        OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
       O   O    T      T    H   H   Y Y   MM MM  O   O
       O   O    T      T    H   H    Y    M   M  O   O
        OOO     T      T    H   H    Y    M   M   OOO
Developed and Distributed by Smart City Water Inc
Copyright 2007 - 2022 Smart City Water Inc
All rights reserved.
```

***** 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\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\c57b450a-05dd-434b-846b-ea0b12d119dd\scenari
Summary filename:
C:\Users\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\c57b450a-05dd-434b-846b-ea0b12d119dd\scenari

DATE: 01-27-2026 TIME: 02:07:39

USER:

COMMENTS: _____

** SIMULATION : 4 - 10-Year 24hr Chic - Milto **

| CHICAGO STORM | IDF curve parameters: A=1089.000

| Ptotal= 80.06 mm |

B= 5.700
C= 0.795
used in: INTENSITY = A / (t + B)^C

Duration of storm = 24.00 hrs
Storm time step = 10.00 min
Time to peak ratio = 0.33

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.00	0.71	6.00	2.35	12.00	2.08	18.00	1.00
0.17	0.72	6.17	2.55	12.17	2.01	18.17	0.99
0.33	0.73	6.33	2.80	12.33	1.95	18.33	0.97
0.50	0.74	6.50	3.10	12.50	1.89	18.50	0.96
0.67	0.76	6.67	3.49	12.67	1.84	18.67	0.95
0.83	0.77	6.83	4.01	12.83	1.78	18.83	0.94
1.00	0.79	7.00	4.74	13.00	1.74	19.00	0.93
1.17	0.80	7.17	5.85	13.17	1.69	19.17	0.91
1.33	0.82	7.33	7.75	13.33	1.65	19.33	0.90
1.50	0.84	7.50	11.89	13.50	1.61	19.50	0.89
1.67	0.86	7.67	28.81	13.67	1.57	19.67	0.88
1.83	0.88	7.83	121.81	13.83	1.54	19.83	0.87
2.00	0.90	8.00	37.88	14.00	1.50	20.00	0.86
2.17	0.92	8.17	19.77	14.17	1.47	20.17	0.85
2.33	0.94	8.33	13.48	14.33	1.44	20.33	0.84
2.50	0.97	8.50	10.31	14.50	1.41	20.50	0.84
2.67	0.99	8.67	8.40	14.67	1.38	20.67	0.83
2.83	1.02	8.83	7.12	14.83	1.35	20.83	0.82
3.00	1.05	9.00	6.20	15.00	1.33	21.00	0.81
3.17	1.08	9.17	5.51	15.17	1.30	21.17	0.80
3.33	1.11	9.33	4.96	15.33	1.28	21.33	0.79
3.50	1.14	9.50	4.53	15.50	1.26	21.50	0.79
3.67	1.18	9.67	4.17	15.67	1.23	21.67	0.78
3.83	1.22	9.83	3.86	15.83	1.21	21.83	0.77
4.00	1.27	10.00	3.61	16.00	1.19	22.00	0.76
4.17	1.31	10.17	3.38	16.17	1.17	22.17	0.76
4.33	1.37	10.33	3.19	16.33	1.15	22.33	0.75
4.50	1.42	10.50	3.02	16.50	1.14	22.50	0.74
4.67	1.48	10.67	2.87	16.67	1.12	22.67	0.74
4.83	1.55	10.83	2.73	16.83	1.10	22.83	0.73
5.00	1.63	11.00	2.61	17.00	1.09	23.00	0.72
5.17	1.71	11.17	2.50	17.17	1.07	23.17	0.72
5.33	1.81	11.33	2.40	17.33	1.05	23.33	0.71
5.50	1.92	11.50	2.31	17.50	1.04	23.50	0.70
5.67	2.04	11.67	2.23	17.67	1.03	23.67	0.70
5.83	2.18	11.83	2.15	17.83	1.01	23.83	0.69

| CALIB |
| STANDHYD (0001) | Area (ha)= 15.57
|ID= 1 DT= 1.0 min | Total Imp(%)= 49.00 Dir. Conn.(%)= 49.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	7.63	7.94
Dep. Storage	(mm)=	1.00	5.00
Average Slope	(%)=	1.00	2.00
Length	(m)=	322.18	40.00
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 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
0.017	0.71	6.017	2.35	12.017	2.08	18.02	1.00
0.033	0.71	6.033	2.35	12.033	2.08	18.03	1.00
0.050	0.71	6.050	2.35	12.050	2.08	18.05	1.00
0.067	0.71	6.067	2.35	12.067	2.08	18.07	1.00
0.083	0.71	6.083	2.35	12.083	2.08	18.08	1.00
0.100	0.71	6.100	2.35	12.100	2.08	18.10	1.00
0.117	0.71	6.117	2.35	12.117	2.08	18.12	1.00
0.133	0.71	6.133	2.35	12.133	2.08	18.13	1.00
0.150	0.71	6.150	2.35	12.150	2.08	18.15	1.00
0.167	0.71	6.167	2.35	12.167	2.08	18.17	1.00
0.183	0.72	6.183	2.55	12.183	2.01	18.18	0.99
0.200	0.72	6.200	2.55	12.200	2.01	18.20	0.99
0.217	0.72	6.217	2.55	12.217	2.01	18.22	0.99
0.233	0.72	6.233	2.55	12.233	2.01	18.23	0.99
0.250	0.72	6.250	2.55	12.250	2.01	18.25	0.99
0.267	0.72	6.267	2.55	12.267	2.01	18.27	0.99
0.283	0.72	6.283	2.55	12.283	2.01	18.28	0.99
0.300	0.72	6.300	2.55	12.300	2.01	18.30	0.99
0.317	0.72	6.317	2.55	12.317	2.01	18.32	0.99
0.333	0.72	6.333	2.55	12.333	2.01	18.33	0.99
0.350	0.73	6.350	2.80	12.350	1.95	18.35	0.97
0.367	0.73	6.367	2.80	12.367	1.95	18.37	0.97
0.383	0.73	6.383	2.80	12.383	1.95	18.38	0.97
0.400	0.73	6.400	2.80	12.400	1.95	18.40	0.97
0.417	0.73	6.417	2.80	12.417	1.95	18.42	0.97
0.433	0.73	6.433	2.80	12.433	1.95	18.43	0.97
0.450	0.73	6.450	2.80	12.450	1.95	18.45	0.97
0.467	0.73	6.467	2.80	12.467	1.95	18.47	0.97
0.483	0.73	6.483	2.80	12.483	1.95	18.48	0.97
0.500	0.73	6.500	2.80	12.500	1.95	18.50	0.97
0.517	0.74	6.517	3.10	12.517	1.89	18.52	0.96
0.533	0.74	6.533	3.10	12.533	1.89	18.53	0.96
0.550	0.74	6.550	3.10	12.550	1.89	18.55	0.96

0.567	0.74	6.567	3.10	12.567	1.89	18.57	0.96
0.583	0.74	6.583	3.10	12.583	1.89	18.58	0.96
0.600	0.74	6.600	3.10	12.600	1.89	18.60	0.96
0.617	0.74	6.617	3.10	12.617	1.89	18.62	0.96
0.633	0.74	6.633	3.10	12.633	1.89	18.63	0.96
0.650	0.74	6.650	3.10	12.650	1.89	18.65	0.96
0.667	0.74	6.667	3.10	12.667	1.89	18.67	0.96
0.683	0.76	6.683	3.49	12.683	1.84	18.68	0.95
0.700	0.76	6.700	3.49	12.700	1.84	18.70	0.95
0.717	0.76	6.717	3.49	12.717	1.84	18.72	0.95
0.733	0.76	6.733	3.49	12.733	1.84	18.73	0.95
0.750	0.76	6.750	3.49	12.750	1.84	18.75	0.95
0.767	0.76	6.767	3.49	12.767	1.84	18.77	0.95
0.783	0.76	6.783	3.49	12.783	1.84	18.78	0.95
0.800	0.76	6.800	3.49	12.800	1.84	18.80	0.95
0.817	0.76	6.817	3.49	12.817	1.84	18.82	0.95
0.833	0.76	6.833	3.49	12.833	1.84	18.83	0.95
0.850	0.77	6.850	4.01	12.850	1.78	18.85	0.94
0.867	0.77	6.867	4.01	12.867	1.78	18.87	0.94
0.883	0.77	6.883	4.01	12.883	1.78	18.88	0.94
0.900	0.77	6.900	4.01	12.900	1.78	18.90	0.94
0.917	0.77	6.917	4.01	12.917	1.78	18.92	0.94
0.933	0.77	6.933	4.01	12.933	1.78	18.93	0.94
0.950	0.77	6.950	4.01	12.950	1.78	18.95	0.94
0.967	0.77	6.967	4.01	12.967	1.78	18.97	0.94
0.983	0.77	6.983	4.01	12.983	1.78	18.98	0.94
1.000	0.77	7.000	4.01	13.000	1.78	19.00	0.94
1.017	0.79	7.017	4.74	13.017	1.74	19.02	0.93
1.033	0.79	7.033	4.74	13.033	1.74	19.03	0.93
1.050	0.79	7.050	4.74	13.050	1.74	19.05	0.93
1.067	0.79	7.067	4.74	13.067	1.74	19.07	0.93
1.083	0.79	7.083	4.74	13.083	1.74	19.08	0.93
1.100	0.79	7.100	4.74	13.100	1.74	19.10	0.93
1.117	0.79	7.117	4.74	13.117	1.74	19.12	0.93
1.133	0.79	7.133	4.74	13.133	1.74	19.13	0.93
1.150	0.79	7.150	4.74	13.150	1.74	19.15	0.93
1.167	0.79	7.167	4.74	13.167	1.74	19.17	0.93
1.183	0.80	7.183	5.85	13.183	1.69	19.18	0.91
1.200	0.80	7.200	5.85	13.200	1.69	19.20	0.91
1.217	0.80	7.217	5.85	13.217	1.69	19.22	0.91
1.233	0.80	7.233	5.85	13.233	1.69	19.23	0.91
1.250	0.80	7.250	5.85	13.250	1.69	19.25	0.91
1.267	0.80	7.267	5.85	13.267	1.69	19.27	0.91
1.283	0.80	7.283	5.85	13.283	1.69	19.28	0.91
1.300	0.80	7.300	5.85	13.300	1.69	19.30	0.91
1.317	0.80	7.317	5.85	13.317	1.69	19.32	0.91
1.333	0.80	7.333	5.85	13.333	1.69	19.33	0.91
1.350	0.82	7.350	7.75	13.350	1.65	19.35	0.90
1.367	0.82	7.367	7.75	13.367	1.65	19.37	0.90
1.383	0.82	7.383	7.75	13.383	1.65	19.38	0.90
1.400	0.82	7.400	7.75	13.400	1.65	19.40	0.90
1.417	0.82	7.417	7.75	13.417	1.65	19.42	0.90
1.433	0.82	7.433	7.75	13.433	1.65	19.43	0.90
1.450	0.82	7.450	7.75	13.450	1.65	19.45	0.90
1.467	0.82	7.467	7.75	13.467	1.65	19.47	0.90
1.483	0.82	7.483	7.75	13.483	1.65	19.48	0.90
1.500	0.82	7.500	7.76	13.500	1.65	19.50	0.90
1.517	0.84	7.517	11.89	13.517	1.61	19.52	0.89
1.533	0.84	7.533	11.89	13.533	1.61	19.53	0.89
1.550	0.84	7.550	11.89	13.550	1.61	19.55	0.89
1.567	0.84	7.567	11.89	13.567	1.61	19.57	0.89
1.583	0.84	7.583	11.89	13.583	1.61	19.58	0.89
1.600	0.84	7.600	11.89	13.600	1.61	19.60	0.89
1.617	0.84	7.617	11.89	13.617	1.61	19.62	0.89
1.633	0.84	7.633	11.89	13.633	1.61	19.63	0.89
1.650	0.84	7.650	11.89	13.650	1.61	19.65	0.89
1.667	0.84	7.667	11.93	13.667	1.61	19.67	0.89
1.683	0.86	7.683	28.81	13.683	1.57	19.68	0.88
1.700	0.86	7.700	28.81	13.700	1.57	19.70	0.88
1.717	0.86	7.717	28.81	13.717	1.57	19.72	0.88
1.733	0.86	7.733	28.81	13.733	1.57	19.73	0.88
1.750	0.86	7.750	28.81	13.750	1.57	19.75	0.88
1.767	0.86	7.767	28.81	13.767	1.57	19.77	0.88
1.783	0.86	7.783	28.81	13.783	1.57	19.78	0.88
1.800	0.86	7.800	28.81	13.800	1.57	19.80	0.88
1.817	0.86	7.817	28.81	13.817	1.57	19.82	0.88
1.833	0.86	7.833	29.07	13.833	1.57	19.83	0.88
1.850	0.88	7.850	121.81	13.850	1.54	19.85	0.87
1.867	0.88	7.867	121.81	13.867	1.54	19.87	0.87
1.883	0.88	7.883	121.81	13.883	1.54	19.88	0.87
1.900	0.88	7.900	121.81	13.900	1.54	19.90	0.87
1.917	0.88	7.917	121.81	13.917	1.54	19.92	0.87
1.933	0.88	7.933	121.81	13.933	1.54	19.93	0.87
1.950	0.88	7.950	121.81	13.950	1.54	19.95	0.87
1.967	0.88	7.967	121.81	13.967	1.54	19.97	0.87
1.983	0.88	7.983	121.81	13.983	1.54	19.98	0.87
2.000	0.88	8.000	121.56	14.000	1.54	20.00	0.87
2.017	0.90	8.017	37.88	14.017	1.50	20.02	0.86
2.033	0.90	8.033	37.88	14.033	1.50	20.03	0.86
2.050	0.90	8.050	37.88	14.050	1.50	20.05	0.86
2.067	0.90	8.067	37.88	14.067	1.50	20.07	0.86
2.083	0.90	8.083	37.88	14.083	1.50	20.08	0.86
2.100	0.90	8.100	37.88	14.100	1.50	20.10	0.86
2.117	0.90	8.117	37.88	14.117	1.50	20.12	0.86
2.133	0.90	8.133	37.88	14.133	1.50	20.13	0.86
2.150	0.90	8.150	37.88	14.150	1.50	20.15	0.86
2.167	0.90	8.167	37.83	14.167	1.50	20.17	0.86
2.183	0.92	8.183	19.77	14.183	1.47	20.18	0.85
2.200	0.92	8.200	19.77	14.200	1.47	20.20	0.85
2.217	0.92	8.217	19.77	14.217	1.47	20.22	0.85
2.233	0.92	8.233	19.77	14.233	1.47	20.23	0.85
2.250	0.92	8.250	19.77	14.250	1.47	20.25	0.85
2.267	0.92	8.267	19.77	14.267	1.47	20.27	0.85
2.283	0.92	8.283	19.77	14.283	1.47	20.28	0.85
2.300	0.92	8.300	19.77	14.300	1.47	20.30	0.85
2.317	0.92	8.317	19.77	14.317	1.47	20.32	0.85
2.333	0.92	8.333	19.75	14.333	1.47	20.33	0.85
2.350	0.94	8.350	13.48	14.350	1.44	20.35	0.84
2.367	0.94	8.367	13.48	14.367	1.44	20.37	0.84
2.383	0.94	8.383	13.48	14.383	1.44	20.38	0.84
2.400	0.94	8.400	13.48	14.400	1.44	20.40	0.84
2.417	0.94	8.417	13.48	14.417	1.44	20.42	0.84
2.433	0.94	8.433	13.48	14.433	1.44	20.43	0.84
2.450	0.94	8.450	13.48	14.450	1.44	20.45	0.84
2.467	0.94	8.467	13.48	14.467	1.44	20.47	0.84
2.483	0.94	8.483	13.48	14.483	1.44	20.48	0.84
2.500	0.94	8.500	13.48	14.500	1.44	20.50	0.84
2.517	0.97	8.517	10.31	14.517	1.41	20.52	0.84
2.533	0.97	8.533	10.31	14.533	1.41	20.53	0.84
2.550	0.97	8.550	10.31	14.550	1.41	20.55	0.84
2.567	0.97	8.567	10.31	14.567	1.41	20.57	0.84
2.583	0.97	8.583	10.31	14.583	1.41	20.58	0.84
2.600	0.97	8.600	10.31	14.600	1.41	20.60	0.84
2.617	0.97	8.617	10.31	14.617	1.41	20.62	0.84
2.633	0.97	8.633	10.31	14.633	1.41	20.63	0.84
2.650	0.97	8.650	10.31	14.650	1.41	20.65	0.84
2.667	0.97	8.667	10.31	14.667	1.41	20.67	0.84
2.683	0.99	8.683	8.40	14.683	1.38	20.68	0.83
2.700	0.99	8.700	8.40	14.700	1.38	20.70	0.83
2.717	0.99	8.717	8.40	14.717	1.38	20.72	0.83
2.733	0.99	8.733	8.40	14.733	1.38	20.73	0.83
2.750	0.99	8.750	8.40	14.750	1.38	20.75	0.83
2.767	0.99	8.767	8.40	14.767	1.38	20.77	0.83
2.783	0.99	8.783	8.40	14.783	1.38	20.78	0.83
2.800	0.99	8.800	8.40	14.800	1.38	20.80	0.83
2.817	0.99	8.817	8.40	14.817	1.38	20.82	0.83
2.833	0.99	8.833	8.40	14.833	1.38	20.83	0.83
2.850	1.02	8.850	7.12	14.850	1.35	20.85	0.82
2.867	1.02	8.867	7.12	14.867	1.35	20.87	0.82
2.883	1.02	8.883	7.12	14.883	1.35	20.88	0.82
2.900	1.02	8.900	7.12	14.900	1.35	20.90	0.82
2.917	1.02	8.917	7.12	14.917	1.35	20.92	0.82
2.933	1.02	8.933	7.12	14.933	1.35	20.93	0.82
2.950	1.02	8.950	7.12	14.950	1.35	20.95	0.82
2.967	1.02	8.967	7.12	14.967	1.35	20.97	0.82
2.983	1.02	8.983	7.12	14.983	1.35	20.98	0.82
3.000	1.02	9.000	7.12	15.000	1.35	21.00	0.82
3.017	1.05	9.017	6.20	15.017	1.33	21.02	0.81
3.033	1.05	9.033	6.20	15.033	1.33	21.03	0.81
3.050	1.05	9.050	6.20	15.050	1.33	21.05	0.81
3.067	1.05	9.067	6.20	15.067	1.33	21.07	0.81
3.083	1.05	9.083	6.20	15.083	1.33	21.08	0.81
3.100	1.05	9.100	6.20	15.100	1.33	21.10	0.81
3.117	1.05	9.117	6.20	15.117	1.33	21.12	0.81
3.133	1.05	9.133	6.20	15.133	1.33	21.13	0.81
3.150	1.05	9.150	6.20	15.150	1.33	21.15	0.81
3.167	1.05	9.167	6.20	15.167	1.33	21.17	0.81
3.183	1.08	9.183	5.51	15.183	1.30	21.18	0.80
3.200	1.08	9.200	5.51	15.200	1.30	21.20	0.80
3.217	1.08	9.217	5.51	15.217	1.30	21.22	0.80
3.233	1.08	9.233	5.51	15.233	1.30	21.23	0.80
3.250	1.08	9.250	5.51	15.250	1.30	21.25	0.80
3.267	1.08	9.267	5.51	15.267	1.30	21.27	0.80
3.283	1.08	9.283	5.51	15.283	1.30	21.28	0.80
3.300	1.08	9.300	5.51	15.300	1.30	21.30	0.80
3.317	1.08	9.317	5.51	15.317	1.30	21.32	0.80
3.333	1.08	9.333	5.51	15.333	1.30	21.33	0.80
3.350	1.11	9.350	4.96	15.350	1.28	21.35	0.79
3.367	1.11	9.367	4.96	15.367	1.28	21.37	0.79
3.383	1.11	9.383	4.96	15.383	1.28	21.38	0.79
3.400	1.11	9.400	4.96	15.400	1.28	21.40	0.79
3.417	1.11	9.417	4.96	15.417	1.28	21.42	0.79
3.433	1.11	9.433	4.96	15.433	1.28	21.43	0.79
3.450	1.11	9.450	4.96	15.450	1.28	21.45	0.79
3.467	1.11	9.467	4.96	15.467	1.28	21.47	0.79
3.483	1.11	9.483	4.96	15.483	1.28	21.48	0.79
3.500	1.11	9.500	4.96	15.500	1.28	21.50	0.79
3.517	1.14	9.517	4.53	15.517	1.26	21.52	0.79
3.533	1.14	9.533	4.53	15.533	1.26	21.53	0.79
3.550	1.14	9.550	4.53	15.550	1.26	21.55	0.79
3.567	1.14	9.567	4.53	15.567	1.26	21.57	0.79
3.583	1.14	9.583	4.53	15.583	1.26	21.58	0.79
3.600	1.14	9.600	4.53	15.600	1.26	21.60	0.79
3.617	1.14	9.617	4.53	15.617	1.26	21.62	0.79
3.633	1.14	9.633	4.53	15.633	1.26	21.63	0.79
3.650	1.14	9.650	4.53	15.650	1.26	21.65	0.79
3.667	1.14	9.667	4.53	15.667	1.26	21.67	0.79
3.683	1.18	9.683	4.17	15.683	1.23	21.68	0.78
3.700	1.18	9.700	4.17	15.700	1.23	21.70	0.78
3.717	1.18	9.717	4.17	15.717	1.23	21.72	0.78
3.733	1.18	9.733	4.17	15.733	1.23	21.73	0.78
3.750	1.18	9.750	4.17	15.750	1.23	21.75	0.78
3.767	1.18	9.767	4.17	15.767	1.23	21.77	0.78
3.783	1.18	9.783	4.17	15.783	1.23	21.78	0.78
3.800	1.18	9.800	4.17	15.800	1.23	21.80	0.78
3.817	1.18	9.817	4.17	15.817	1.23	21.82	0.78
3.833	1.18	9.833	4.17	15.833	1.23	21.83	0.78
3.850	1.22	9.850	3.86	15.850	1.21	21.85	0.77
3.867	1.22	9.867	3.86	15.867	1.21	21.87	0.77
3.883	1.22	9.883	3.86	15.883	1.21	21.88	0.77

3.900	1.22	9.900	3.86	15.900	1.21	21.90	0.77
3.917	1.22	9.917	3.86	15.917	1.21	21.92	0.77
3.933	1.22	9.933	3.86	15.933	1.21	21.93	0.77
3.950	1.22	9.950	3.86	15.950	1.21	21.95	0.77
3.967	1.22	9.967	3.86	15.967	1.21	21.97	0.77
3.983	1.22	9.983	3.86	15.983	1.21	21.98	0.77
4.000	1.22	10.000	3.86	16.000	1.21	22.00	0.77
4.017	1.27	10.017	3.61	16.017	1.19	22.02	0.76
4.033	1.27	10.033	3.61	16.033	1.19	22.03	0.76
4.050	1.27	10.050	3.61	16.050	1.19	22.05	0.76
4.067	1.27	10.067	3.61	16.067	1.19	22.07	0.76
4.083	1.27	10.083	3.61	16.083	1.19	22.08	0.76
4.100	1.27	10.100	3.61	16.100	1.19	22.10	0.76
4.117	1.27	10.117	3.61	16.117	1.19	22.12	0.76
4.133	1.27	10.133	3.61	16.133	1.19	22.13	0.76
4.150	1.27	10.150	3.61	16.150	1.19	22.15	0.76
4.167	1.27	10.167	3.61	16.167	1.19	22.17	0.76
4.183	1.31	10.183	3.38	16.183	1.17	22.18	0.76
4.200	1.31	10.200	3.38	16.200	1.17	22.20	0.76
4.217	1.31	10.217	3.38	16.217	1.17	22.22	0.76
4.233	1.31	10.233	3.38	16.233	1.17	22.23	0.76
4.250	1.31	10.250	3.38	16.250	1.17	22.25	0.76
4.267	1.31	10.267	3.38	16.267	1.17	22.27	0.76
4.283	1.31	10.283	3.38	16.283	1.17	22.28	0.76
4.300	1.31	10.300	3.38	16.300	1.17	22.30	0.76
4.317	1.31	10.317	3.38	16.317	1.17	22.32	0.76
4.333	1.31	10.333	3.38	16.333	1.17	22.33	0.76
4.350	1.37	10.350	3.19	16.350	1.16	22.35	0.75
4.367	1.37	10.367	3.19	16.367	1.15	22.37	0.75
4.383	1.37	10.383	3.19	16.383	1.15	22.38	0.75
4.400	1.37	10.400	3.19	16.400	1.15	22.40	0.75
4.417	1.37	10.417	3.19	16.417	1.15	22.42	0.75
4.433	1.37	10.433	3.19	16.433	1.15	22.43	0.75
4.450	1.37	10.450	3.19	16.450	1.15	22.45	0.75
4.467	1.37	10.467	3.19	16.467	1.15	22.47	0.75
4.483	1.37	10.483	3.19	16.483	1.15	22.48	0.75
4.500	1.37	10.500	3.19	16.500	1.15	22.50	0.75
4.517	1.42	10.517	3.02	16.517	1.14	22.52	0.74
4.533	1.42	10.533	3.02	16.533	1.14	22.53	0.74
4.550	1.42	10.550	3.02	16.550	1.14	22.55	0.74
4.567	1.42	10.567	3.02	16.567	1.14	22.57	0.74
4.583	1.42	10.583	3.02	16.583	1.14	22.58	0.74
4.600	1.42	10.600	3.02	16.600	1.14	22.60	0.74
4.617	1.42	10.617	3.02	16.617	1.14	22.62	0.74
4.633	1.42	10.633	3.02	16.633	1.14	22.63	0.74
4.650	1.42	10.650	3.02	16.650	1.14	22.65	0.74
4.667	1.42	10.667	3.02	16.667	1.14	22.67	0.74
4.683	1.48	10.683	2.87	16.683	1.12	22.68	0.74
4.700	1.48	10.700	2.87	16.700	1.12	22.70	0.74
4.717	1.48	10.717	2.87	16.717	1.12	22.72	0.74
4.733	1.48	10.733	2.87	16.733	1.12	22.73	0.74
4.750	1.48	10.750	2.87	16.750	1.12	22.75	0.74
4.767	1.48	10.767	2.87	16.767	1.12	22.77	0.74
4.783	1.48	10.783	2.87	16.783	1.12	22.78	0.74
4.800	1.48	10.800	2.87	16.800	1.12	22.80	0.74
4.817	1.48	10.817	2.87	16.817	1.12	22.82	0.74
4.833	1.48	10.833	2.87	16.833	1.12	22.83	0.74
4.850	1.55	10.850	2.73	16.850	1.10	22.85	0.73
4.867	1.55	10.867	2.73	16.867	1.10	22.87	0.73
4.883	1.55	10.883	2.73	16.883	1.10	22.88	0.73
4.900	1.55	10.900	2.73	16.900	1.10	22.90	0.73
4.917	1.55	10.917	2.73	16.917	1.10	22.92	0.73
4.933	1.55	10.933	2.73	16.933	1.10	22.93	0.73
4.950	1.55	10.950	2.73	16.950	1.10	22.95	0.73
4.967	1.55	10.967	2.73	16.967	1.10	22.97	0.73
4.983	1.55	10.983	2.73	16.983	1.10	22.98	0.73
5.000	1.55	11.000	2.73	17.000	1.10	23.00	0.73
5.017	1.63	11.017	2.61	17.017	1.09	23.02	0.72
5.033	1.63	11.033	2.61	17.033	1.09	23.03	0.72
5.050	1.63	11.050	2.61	17.050	1.09	23.05	0.72
5.067	1.63	11.067	2.61	17.067	1.09	23.07	0.72
5.083	1.63	11.083	2.61	17.083	1.09	23.08	0.72
5.100	1.63	11.100	2.61	17.100	1.09	23.10	0.72
5.117	1.63	11.117	2.61	17.117	1.09	23.12	0.72
5.133	1.63	11.133	2.61	17.133	1.09	23.13	0.72
5.150	1.63	11.150	2.61	17.150	1.09	23.15	0.72
5.167	1.63	11.167	2.61	17.167	1.09	23.17	0.72
5.183	1.71	11.183	2.50	17.183	1.07	23.18	0.72
5.200	1.71	11.200	2.50	17.200	1.07	23.20	0.72
5.217	1.71	11.217	2.50	17.217	1.07	23.22	0.72
5.233	1.71	11.233	2.50	17.233	1.07	23.23	0.72
5.250	1.71	11.250	2.50	17.250	1.07	23.25	0.72
5.267	1.71	11.267	2.50	17.267	1.07	23.27	0.72
5.283	1.71	11.283	2.50	17.283	1.07	23.28	0.72
5.300	1.71	11.300	2.50	17.300	1.07	23.30	0.72
5.317	1.71	11.317	2.50	17.317	1.07	23.32	0.72
5.333	1.71	11.333	2.50	17.333	1.07	23.33	0.72
5.350	1.81	11.350	2.40	17.350	1.06	23.35	0.71
5.367	1.81	11.367	2.40	17.367	1.05	23.37	0.71
5.383	1.81	11.383	2.40	17.383	1.05	23.38	0.71
5.400	1.81	11.400	2.40	17.400	1.05	23.40	0.71
5.417	1.81	11.417	2.40	17.417	1.05	23.42	0.71
5.433	1.81	11.433	2.40	17.433	1.05	23.43	0.71
5.450	1.81	11.450	2.40	17.450	1.05	23.45	0.71
5.467	1.81	11.467	2.40	17.467	1.05	23.47	0.71
5.483	1.81	11.483	2.40	17.483	1.05	23.48	0.71
5.500	1.81	11.500	2.40	17.500	1.05	23.50	0.71
5.517	1.92	11.517	2.31	17.517	1.04	23.52	0.70
5.533	1.92	11.533	2.31	17.533	1.04	23.53	0.70
5.550	1.92	11.550	2.31	17.550	1.04	23.55	0.70
5.567	1.92	11.567	2.31	17.567	1.04	23.57	0.70
5.583	1.92	11.583	2.31	17.583	1.04	23.58	0.70
5.600	1.92	11.600	2.31	17.600	1.04	23.60	0.70
5.617	1.92	11.617	2.31	17.617	1.04	23.62	0.70
5.633	1.92	11.633	2.31	17.633	1.04	23.63	0.70
5.650	1.92	11.650	2.31	17.650	1.04	23.65	0.70
5.667	1.92	11.667	2.31	17.667	1.04	23.67	0.70
5.683	2.04	11.683	2.23	17.683	1.03	23.68	0.70
5.700	2.04	11.700	2.23	17.700	1.03	23.70	0.70
5.717	2.04	11.717	2.23	17.717	1.03	23.72	0.70
5.733	2.04	11.733	2.23	17.733	1.03	23.73	0.70
5.750	2.04	11.750	2.23	17.750	1.03	23.75	0.70
5.767	2.04	11.767	2.23	17.767	1.03	23.77	0.70
5.783	2.04	11.783	2.23	17.783	1.03	23.78	0.70
5.800	2.04	11.800	2.23	17.800	1.03	23.80	0.70
5.817	2.04	11.817	2.23	17.817	1.03	23.82	0.70
5.833	2.04	11.833	2.23	17.833	1.03	23.83	0.70
5.850	2.18	11.850	2.15	17.850	1.01	23.85	0.69
5.867	2.18	11.867	2.15	17.867	1.01	23.87	0.69
5.883	2.18	11.883	2.15	17.883	1.01	23.88	0.69
5.900	2.18	11.900	2.15	17.900	1.01	23.90	0.69
5.917	2.18	11.917	2.15	17.917	1.01	23.92	0.69
5.933	2.18	11.933	2.15	17.933	1.01	23.93	0.69
5.950	2.18	11.950	2.15	17.950	1.01	23.95	0.69
5.967	2.18	11.967	2.15	17.967	1.01	23.97	0.69
5.983	2.18	11.983	2.15	17.983	1.01	23.98	0.69
6.000	2.18	12.000	2.15	18.000	1.01	24.00	0.69

Max.Eff.Inten.(mm/hr)=	121.81	70.49	
over (min)	5.00	12.00	
Storage Coeff. (min)=	4.76 (ii)	11.39 (ii)	
Unit Hyd. Tpeak (min)=	5.00	12.00	
Unit Hyd. peak (cms)=	0.23	0.10	
			TOTALS
PEAK FLOW (cms)=	2.20	0.89	2.811 (iii)
TIME TO PEAK (hrs)=	8.02	8.15	8.03
RUNOFF VOLUME (mm)=	79.05	46.98	62.70
TOTAL RAINFALL (mm)=	80.06	80.06	80.06
RUNOFF COEFFICIENT =	0.99	0.59	0.78

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 85.0 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

| STANDHYD (0002)| Area (ha)= 15.57
|ID= 1 DT= 1.0 min | Total Imp(%)= 49.00 Dir. Conn.(%)= 49.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	7.63	7.94
Dep. Storage	(mm)=	1.00	0.00
Average Slope	(%)=	1.00	2.00
Length	(m)=	322.18	40.00
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 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
0.017	0.71	6.017	2.35	12.017	2.08	18.02	1.00
0.033	0.71	6.033	2.35	12.033	2.08	18.03	1.00
0.050	0.71	6.050	2.35	12.050	2.08	18.05	1.00
0.067	0.71	6.067	2.35	12.067	2.08	18.07	1.00
0.083	0.71	6.083	2.35	12.083	2.08	18.08	1.00
0.100	0.71	6.100	2.35	12.100	2.08	18.10	1.00
0.117	0.71	6.117	2.35	12.117	2.08	18.12	1.00
0.133	0.71	6.133	2.35	12.133	2.08	18.13	1.00
0.150	0.71	6.150	2.35	12.150	2.08	18.15	1.00
0.167	0.71	6.167	2.35	12.167	2.08	18.17	1.00
0.183	0.72	6.183	2.55	12.183	2.01	18.18	0.99
0.200	0.72	6.200	2.55	12.200	2.01	18.20	0.99
0.217	0.72	6.217	2.55	12.217	2.01	18.22	0.99
0.233	0.72	6.233	2.55	12.233	2.01	18.23	0.99
0.250	0.72	6.250	2.55	12.250	2.01	18.25	0.99
0.267	0.72	6.267	2.55	12.267	2.01	18.27	0.99
0.283	0.72	6.283	2.55	12.283	2.01	18.28	0.99
0.300	0.72	6.300	2.55	12.300	2.01	18.30	0.99
0.317	0.72	6.317	2.55	12.317	2.01	18.32	0.99
0.333	0.72	6.333	2.55	12.333	2.01	18.33	0.99
0.350	0.73	6.350	2.80	12.350	1.95	18.35	0.97
0.367	0.73	6.367	2.80	12.367	1.95	18.37	0.97
0.383	0.73	6.383	2.80	12.383	1.95	18.38	0.97
0.400	0.73	6.400	2.80	12.400	1.95	18.40	0.97
0.417	0.73	6.417	2.80	12.417	1.95	18.42	0.97
0.433	0.73	6.433	2.80	12.433	1.95	18.43	0.97
0.450	0.73	6.450	2.80	12.450	1.95	18.45	0.97
0.467	0.73	6.467	2.80	12.467	1.95	18.47	0.97
0.483	0.73	6.483	2.80	12.483	1.95	18.48	0.97
0.500	0.73	6.500	2.80	12.500	1.95	18.50	0.97
0.517	0.74	6.517	3.10	12.517	1.89	18.52	0.96
0.533	0.74	6.533	3.10	12.533	1.89	18.53	0.96
0.550	0.74	6.550	3.10	12.550	1.89	18.55	0.96
0.567	0.74	6.567	3.10	12.567	1.89	18.57	0.96

0.583	0.74	6.583	3.10	12.583	1.89	18.58	0.96
0.600	0.74	6.600	3.10	12.600	1.89	18.60	0.96
0.617	0.74	6.617	3.10	12.617	1.89	18.62	0.96
0.633	0.74	6.633	3.10	12.633	1.89	18.63	0.96
0.650	0.74	6.650	3.10	12.650	1.89	18.65	0.96
0.667	0.74	6.667	3.10	12.667	1.89	18.67	0.96
0.683	0.76	6.683	3.49	12.683	1.84	18.68	0.95
0.700	0.76	6.700	3.49	12.700	1.84	18.70	0.95
0.717	0.76	6.717	3.49	12.717	1.84	18.72	0.95
0.733	0.76	6.733	3.49	12.733	1.84	18.73	0.95
0.750	0.76	6.750	3.49	12.750	1.84	18.75	0.95
0.767	0.76	6.767	3.49	12.767	1.84	18.77	0.95
0.783	0.76	6.783	3.49	12.783	1.84	18.78	0.95
0.800	0.76	6.800	3.49	12.800	1.84	18.80	0.95
0.817	0.76	6.817	3.49	12.817	1.84	18.82	0.95
0.833	0.76	6.833	3.49	12.833	1.84	18.83	0.95
0.850	0.77	6.850	4.01	12.850	1.78	18.85	0.94
0.867	0.77	6.867	4.01	12.867	1.78	18.87	0.94
0.883	0.77	6.883	4.01	12.883	1.78	18.88	0.94
0.900	0.77	6.900	4.01	12.900	1.78	18.90	0.94
0.917	0.77	6.917	4.01	12.917	1.78	18.92	0.94
0.933	0.77	6.933	4.01	12.933	1.78	18.93	0.94
0.950	0.77	6.950	4.01	12.950	1.78	18.95	0.94
0.967	0.77	6.967	4.01	12.967	1.78	18.97	0.94
0.983	0.77	6.983	4.01	12.983	1.78	18.98	0.94
1.000	0.77	7.000	4.01	13.000	1.78	19.00	0.94
1.017	0.79	7.017	4.74	13.017	1.74	19.02	0.93
1.033	0.79	7.033	4.74	13.033	1.74	19.03	0.93
1.050	0.79	7.050	4.74	13.050	1.74	19.05	0.93
1.067	0.79	7.067	4.74	13.067	1.74	19.07	0.93
1.083	0.79	7.083	4.74	13.083	1.74	19.08	0.93
1.100	0.79	7.100	4.74	13.100	1.74	19.10	0.93
1.117	0.79	7.117	4.74	13.117	1.74	19.12	0.93
1.133	0.79	7.133	4.74	13.133	1.74	19.13	0.93
1.150	0.79	7.150	4.74	13.150	1.74	19.15	0.93
1.167	0.79	7.167	4.74	13.167	1.74	19.17	0.93
1.183	0.80	7.183	5.85	13.183	1.69	19.18	0.91
1.200	0.80	7.200	5.85	13.200	1.69	19.20	0.91
1.217	0.80	7.217	5.85	13.217	1.69	19.22	0.91
1.233	0.80	7.233	5.85	13.233	1.69	19.23	0.91
1.250	0.80	7.250	5.85	13.250	1.69	19.25	0.91
1.267	0.80	7.267	5.85	13.267	1.69	19.27	0.91
1.283	0.80	7.283	5.85	13.283	1.69	19.28	0.91
1.300	0.80	7.300	5.85	13.300	1.69	19.30	0.91
1.317	0.80	7.317	5.85	13.317	1.69	19.32	0.91
1.333	0.80	7.333	5.85	13.333	1.69	19.33	0.91
1.350	0.82	7.350	7.75	13.350	1.65	19.35	0.90
1.367	0.82	7.367	7.75	13.367	1.65	19.37	0.90
1.383	0.82	7.383	7.75	13.383	1.65	19.38	0.90
1.400	0.82	7.400	7.75	13.400	1.65	19.40	0.90

1.417	0.82	7.417	7.75	13.417	1.65	19.42	0.90
1.433	0.82	7.433	7.75	13.433	1.65	19.43	0.90
1.450	0.82	7.450	7.75	13.450	1.65	19.45	0.90
1.467	0.82	7.467	7.75	13.467	1.65	19.47	0.90
1.483	0.82	7.483	7.75	13.483	1.65	19.48	0.90
1.500	0.82	7.500	7.76	13.500	1.65	19.50	0.90
1.517	0.84	7.517	11.89	13.517	1.61	19.52	0.89
1.533	0.84	7.533	11.89	13.533	1.61	19.53	0.89
1.550	0.84	7.550	11.89	13.550	1.61	19.55	0.89
1.567	0.84	7.567	11.89	13.567	1.61	19.57	0.89
1.583	0.84	7.583	11.89	13.583	1.61	19.58	0.89
1.600	0.84	7.600	11.89	13.600	1.61	19.60	0.89
1.617	0.84	7.617	11.89	13.617	1.61	19.62	0.89
1.633	0.84	7.633	11.89	13.633	1.61	19.63	0.89
1.650	0.84	7.650	11.89	13.650	1.61	19.65	0.89
1.667	0.84	7.667	11.93	13.667	1.61	19.67	0.89
1.683	0.86	7.683	28.81	13.683	1.57	19.68	0.88
1.700	0.86	7.700	28.81	13.700	1.57	19.70	0.88
1.717	0.86	7.717	28.81	13.717	1.57	19.72	0.88
1.733	0.86	7.733	28.81	13.733	1.57	19.73	0.88
1.750	0.86	7.750	28.81	13.750	1.57	19.75	0.88
1.767	0.86	7.767	28.81	13.767	1.57	19.77	0.88
1.783	0.86	7.783	28.81	13.783	1.57	19.78	0.88
1.800	0.86	7.800	28.81	13.800	1.57	19.80	0.88
1.817	0.86	7.817	28.81	13.817	1.57	19.82	0.88
1.833	0.86	7.833	29.07	13.833	1.57	19.83	0.88
1.850	0.88	7.850	121.81	13.850	1.54	19.85	0.87
1.867	0.88	7.867	121.81	13.867	1.54	19.87	0.87
1.883	0.88	7.883	121.81	13.883	1.54	19.88	0.87
1.900	0.88	7.900	121.81	13.900	1.54	19.90	0.87
1.917	0.88	7.917	121.81	13.917	1.54	19.92	0.87
1.933	0.88	7.933	121.81	13.933	1.54	19.93	0.87
1.950	0.88	7.950	121.81	13.950	1.54	19.95	0.87
1.967	0.88	7.967	121.81	13.967	1.54	19.97	0.87
1.983	0.88	7.983	121.81	13.983	1.54	19.98	0.87
2.000	0.88	8.000	121.56	14.000	1.54	20.00	0.87
2.017	0.90	8.017	37.88	14.017	1.50	20.02	0.86
2.033	0.90	8.033	37.88	14.033	1.50	20.03	0.86
2.050	0.90	8.050	37.88	14.050	1.50	20.05	0.86
2.067	0.90	8.067	37.88	14.067	1.50	20.07	0.86
2.083	0.90	8.083	37.88	14.083	1.50	20.08	0.86
2.100	0.90	8.100	37.88	14.100	1.50	20.10	0.86
2.117	0.90	8.117	37.88	14.117	1.50	20.12	0.86
2.133	0.90	8.133	37.88	14.133	1.50	20.13	0.86
2.150	0.90	8.150	37.88	14.150	1.50	20.15	0.86
2.167	0.90	8.167	37.83	14.167	1.50	20.17	0.86
2.183	0.92	8.183	19.77	14.183	1.47	20.18	0.85
2.200	0.92	8.200	19.77	14.200	1.47	20.20	0.85
2.217	0.92	8.217	19.77	14.217	1.47	20.22	0.85
2.233	0.92	8.233	19.77	14.233	1.47	20.23	0.85

2.250	0.92	8.250	19.77	14.250	1.47	20.25	0.85
2.267	0.92	8.267	19.77	14.267	1.47	20.27	0.85
2.283	0.92	8.283	19.77	14.283	1.47	20.28	0.85
2.300	0.92	8.300	19.77	14.300	1.47	20.30	0.85
2.317	0.92	8.317	19.77	14.317	1.47	20.32	0.85
2.333	0.92	8.333	19.75	14.333	1.47	20.33	0.85
2.350	0.94	8.350	13.48	14.350	1.44	20.35	0.84
2.367	0.94	8.367	13.48	14.367	1.44	20.37	0.84
2.383	0.94	8.383	13.48	14.383	1.44	20.38	0.84
2.400	0.94	8.400	13.48	14.400	1.44	20.40	0.84
2.417	0.94	8.417	13.48	14.417	1.44	20.42	0.84
2.433	0.94	8.433	13.48	14.433	1.44	20.43	0.84
2.450	0.94	8.450	13.48	14.450	1.44	20.45	0.84
2.467	0.94	8.467	13.48	14.467	1.44	20.47	0.84
2.483	0.94	8.483	13.48	14.483	1.44	20.48	0.84
2.500	0.94	8.500	13.48	14.500	1.44	20.50	0.84
2.517	0.97	8.517	10.31	14.517	1.41	20.52	0.84
2.533	0.97	8.533	10.31	14.533	1.41	20.53	0.84
2.550	0.97	8.550	10.31	14.550	1.41	20.55	0.84
2.567	0.97	8.567	10.31	14.567	1.41	20.57	0.84
2.583	0.97	8.583	10.31	14.583	1.41	20.58	0.84
2.600	0.97	8.600	10.31	14.600	1.41	20.60	0.84
2.617	0.97	8.617	10.31	14.617	1.41	20.62	0.84
2.633	0.97	8.633	10.31	14.633	1.41	20.63	0.84
2.650	0.97	8.650	10.31	14.650	1.41	20.65	0.84
2.667	0.97	8.667	10.31	14.667	1.41	20.67	0.84
2.683	0.99	8.683	8.40	14.683	1.38	20.68	0.83
2.700	0.99	8.700	8.40	14.700	1.38	20.70	0.83
2.717	0.99	8.717	8.40	14.717	1.38	20.72	0.83
2.733	0.99	8.733	8.40	14.733	1.38	20.73	0.83
2.750	0.99	8.750	8.40	14.750	1.38	20.75	0.83
2.767	0.99	8.767	8.40	14.767	1.38	20.77	0.83
2.783	0.99	8.783	8.40	14.783	1.38	20.78	0.83
2.800	0.99	8.800	8.40	14.800	1.38	20.80	0.83
2.817	0.99	8.817	8.40	14.817	1.38	20.82	0.83
2.833	0.99	8.833	8.40	14.833	1.38	20.83	0.83
2.850	1.02	8.850	7.12	14.850	1.35	20.85	0.82
2.867	1.02	8.867	7.12	14.867	1.35	20.87	0.82
2.883	1.02	8.883	7.12	14.883	1.35	20.88	0.82
2.900	1.02	8.900	7.12	14.900	1.35	20.90	0.82
2.917	1.02	8.917	7.12	14.917	1.35	20.92	0.82
2.933	1.02	8.933	7.12	14.933	1.35	20.93	0.82
2.950	1.02	8.950	7.12	14.950	1.35	20.95	0.82
2.967	1.02	8.967	7.12	14.967	1.35	20.97	0.82
2.983	1.02	8.983	7.12	14.983	1.35	20.98	0.82
3.000	1.02	9.000	7.12	15.000	1.35	21.00	0.82
3.017	1.05	9.017	6.20	15.017	1.33	21.02	0.81
3.033	1.05	9.033	6.20	15.033	1.33	21.03	0.81
3.050	1.05	9.050	6.20	15.050	1.33	21.05	0.81
3.067	1.05	9.067	6.20	15.067	1.33	21.07	0.81

3.083	1.05	9.083	6.20	15.083	1.33	21.08	0.81
3.100	1.05	9.100	6.20	15.100	1.33	21.10	0.81
3.117	1.05	9.117	6.20	15.117	1.33	21.12	0.81
3.133	1.05	9.133	6.20	15.133	1.33	21.13	0.81
3.150	1.05	9.150	6.20	15.150	1.33	21.15	0.81
3.167	1.05	9.167	6.20	15.167	1.33	21.17	0.81
3.183	1.08	9.183	5.51	15.183	1.30	21.18	0.80
3.200	1.08	9.200	5.51	15.200	1.30	21.20	0.80
3.217	1.08	9.217	5.51	15.217	1.30	21.22	0.80
3.233	1.08	9.233	5.51	15.233	1.30	21.23	0.80
3.250	1.08	9.250	5.51	15.250	1.30	21.25	0.80
3.267	1.08	9.267	5.51	15.267	1.30	21.27	0.80
3.283	1.08	9.283	5.51	15.283	1.30	21.28	0.80
3.300	1.08	9.300	5.51	15.300	1.30	21.30	0.80
3.317	1.08	9.317	5.51	15.317	1.30	21.32	0.80
3.333	1.08	9.333	5.51	15.333	1.30	21.33	0.80
3.350	1.11	9.350	4.96	15.350	1.28	21.35	0.79
3.367	1.11	9.367	4.96	15.367	1.28	21.37	0.79
3.383	1.11	9.383	4.96	15.383	1.28	21.38	0.79
3.400	1.11	9.400	4.96	15.400	1.28	21.40	0.79
3.417	1.11	9.417	4.96	15.417	1.28	21.42	0.79
3.433	1.11	9.433	4.96	15.433	1.28	21.43	0.79
3.450	1.11	9.450	4.96	15.450	1.28	21.45	0.79
3.467	1.11	9.467	4.96	15.467	1.28	21.47	0.79
3.483	1.11	9.483	4.96	15.483	1.28	21.48	0.79
3.500	1.11	9.500	4.96	15.500	1.28	21.50	0.79
3.517	1.14	9.517	4.53	15.517	1.26	21.52	0.79
3.533	1.14	9.533	4.53	15.533	1.26	21.53	0.79
3.550	1.14	9.550	4.53	15.550	1.26	21.55	0.79
3.567	1.14	9.567	4.53	15.567	1.26	21.57	0.79
3.583	1.14	9.583	4.53	15.583	1.26	21.58	0.79
3.600	1.14	9.600	4.53	15.600	1.26	21.60	0.79
3.617	1.14	9.617	4.53	15.617	1.26	21.62	0.79
3.633	1.14	9.633	4.53	15.633	1.26	21.63	0.79
3.650	1.14	9.650	4.53	15.650	1.26	21.65	0.79
3.667	1.14	9.667	4.53	15.667	1.26	21.67	0.79
3.683	1.18	9.683	4.17	15.683	1.23	21.68	0.78
3.700	1.18	9.700	4.17	15.700	1.23	21.70	0.78
3.717	1.18	9.717	4.17	15.717	1.23	21.72	0.78
3.733	1.18	9.733	4.17	15.733	1.23	21.73	0.78
3.750	1.18	9.750	4.17	15.750	1.23	21.75	0.78
3.767	1.18	9.767	4.17	15.767	1.23	21.77	0.78
3.783	1.18	9.783	4.17	15.783	1.23	21.78	0.78
3.800	1.18	9.800	4.17	15.800	1.23	21.80	0.78
3.817	1.18	9.817	4.17	15.817	1.23	21.82	0.78
3.833	1.18	9.833	4.17	15.833	1.23	21.83	0.78
3.850	1.22	9.850	3.86	15.850	1.21	21.85	0.77
3.867	1.22	9.867	3.86	15.867	1.21	21.87	0.77
3.883	1.22	9.883	3.86	15.883	1.21	21.88	0.77
3.900	1.22	9.900	3.86	15.900	1.21	21.90	0.77

3.917	1.22	9.917	3.86	15.917	1.21	21.92	0.77
3.933	1.22	9.933	3.86	15.933	1.21	21.93	0.77
3.950	1.22	9.950	3.86	15.950	1.21	21.95	0.77
3.967	1.22	9.967	3.86	15.967	1.21	21.97	0.77
3.983	1.22	9.983	3.86	15.983	1.21	21.98	0.77
4.000	1.22	10.000	3.86	16.000	1.21	22.00	0.77
4.017	1.27	10.017	3.61	16.017	1.19	22.02	0.76
4.033	1.27	10.033	3.61	16.033	1.19	22.03	0.76
4.050	1.27	10.050	3.61	16.050	1.19	22.05	0.76
4.067	1.27	10.067	3.61	16.067	1.19	22.07	0.76
4.083	1.27	10.083	3.61	16.083	1.19	22.08	0.76
4.100	1.27	10.100	3.61	16.100	1.19	22.10	0.76
4.117	1.27	10.117	3.61	16.117	1.19	22.12	0.76
4.133	1.27	10.133	3.61	16.133	1.19	22.13	0.76
4.150	1.27	10.150	3.61	16.150	1.19	22.15	0.76
4.167	1.27	10.167	3.61	16.167	1.19	22.17	0.76
4.183	1.31	10.183	3.38	16.183	1.17	22.18	0.76
4.200	1.31	10.200	3.38	16.200	1.17	22.20	0.76
4.217	1.31	10.217	3.38	16.217	1.17	22.22	0.76
4.233	1.31	10.233	3.38	16.233	1.17	22.23	0.76
4.250	1.31	10.250	3.38	16.250	1.17	22.25	0.76
4.267	1.31	10.267	3.38	16.267	1.17	22.27	0.76
4.283	1.31	10.283	3.38	16.283	1.17	22.28	0.76
4.300	1.31	10.300	3.38	16.300	1.17	22.30	0.76
4.317	1.31	10.317	3.38	16.317	1.17	22.32	0.76
4.333	1.31	10.333	3.38	16.333	1.17	22.33	0.76
4.350	1.37	10.350	3.19	16.350	1.16	22.35	0.75
4.367	1.37	10.367	3.19	16.367	1.15	22.37	0.75
4.383	1.37	10.383	3.19	16.383	1.15	22.38	0.75
4.400	1.37	10.400	3.19	16.400	1.15	22.40	0.75
4.417	1.37	10.417	3.19	16.417	1.15	22.42	0.75
4.433	1.37	10.433	3.19	16.433	1.15	22.43	0.75
4.450	1.37	10.450	3.19	16.450	1.15	22.45	0.75
4.467	1.37	10.467	3.19	16.467	1.15	22.47	0.75
4.483	1.37	10.483	3.19	16.483	1.15	22.48	0.75
4.500	1.37	10.500	3.19	16.500	1.15	22.50	0.75
4.517	1.42	10.517	3.02	16.517	1.14	22.52	0.74
4.533	1.42	10.533	3.02	16.533	1.14	22.53	0.74
4.550	1.42	10.550	3.02	16.550	1.14	22.55	0.74
4.567	1.42	10.567	3.02	16.567	1.14	22.57	0.74
4.583	1.42	10.583	3.02	16.583	1.14	22.58	0.74
4.600	1.42	10.600	3.02	16.600	1.14	22.60	0.74
4.617	1.42	10.617	3.02	16.617	1.14	22.62	0.74
4.633	1.42	10.633	3.02	16.633	1.14	22.63	0.74
4.650	1.42	10.650	3.02	16.650	1.14	22.65	0.74
4.667	1.42	10.667	3.02	16.667	1.14	22.67	0.74
4.683	1.48	10.683	2.87	16.683	1.12	22.68	0.74
4.700	1.48	10.700	2.87	16.700	1.12	22.70	0.74
4.717	1.48	10.717	2.87	16.717	1.12	22.72	0.74
4.733	1.48	10.733	2.87	16.733	1.12	22.73	0.74

4.750	1.48	10.750	2.87	16.750	1.12	22.75	0.74
4.767	1.48	10.767	2.87	16.767	1.12	22.77	0.74
4.783	1.48	10.783	2.87	16.783	1.12	22.78	0.74
4.800	1.48	10.800	2.87	16.800	1.12	22.80	0.74
4.817	1.48	10.817	2.87	16.817	1.12	22.82	0.74
4.833	1.48	10.833	2.87	16.833	1.12	22.83	0.74
4.850	1.55	10.850	2.73	16.850	1.10	22.85	0.73
4.867	1.55	10.867	2.73	16.867	1.10	22.87	0.73
4.883	1.55	10.883	2.73	16.883	1.10	22.88	0.73
4.900	1.55	10.900	2.73	16.900	1.10	22.90	0.73
4.917	1.55	10.917	2.73	16.917	1.10	22.92	0.73
4.933	1.55	10.933	2.73	16.933	1.10	22.93	0.73
4.950	1.55	10.950	2.73	16.950	1.10	22.95	0.73
4.967	1.55	10.967	2.73	16.967	1.10	22.97	0.73
4.983	1.55	10.983	2.73	16.983	1.10	22.98	0.73
5.000	1.55	11.000	2.73	17.000	1.10	23.00	0.73
5.017	1.63	11.017	2.61	17.017	1.09	23.02	0.72
5.033	1.63	11.033	2.61	17.033	1.09	23.03	0.72
5.050	1.63	11.050	2.61	17.050	1.09	23.05	0.72
5.067	1.63	11.067	2.61	17.067	1.09	23.07	0.72
5.083	1.63	11.083	2.61	17.083	1.09	23.08	0.72
5.100	1.63	11.100	2.61	17.100	1.09	23.10	0.72
5.117	1.63	11.117	2.61	17.117	1.09	23.12	0.72
5.133	1.63	11.133	2.61	17.133	1.09	23.13	0.72
5.150	1.63	11.150	2.61	17.150	1.09	23.15	0.72
5.167	1.63	11.167	2.61	17.167	1.09	23.17	0.72
5.183	1.71	11.183	2.50	17.183	1.07	23.18	0.72
5.200	1.71	11.200	2.50	17.200	1.07	23.20	0.72
5.217	1.71	11.217	2.50	17.217	1.07	23.22	0.72
5.233	1.71	11.233	2.50	17.233	1.07	23.23	0.72
5.250	1.71	11.250	2.50	17.250	1.07	23.25	0.72
5.267	1.71	11.267	2.50	17.267	1.07	23.27	0.72
5.283	1.71	11.283	2.50	17.283	1.07	23.28	0.72
5.300	1.71	11.300	2.50	17.300	1.07	23.30	0.72
5.317	1.71	11.317	2.50	17.317	1.07	23.32	0.72
5.333	1.71	11.333	2.50	17.333	1.07	23.33	0.72
5.350	1.81	11.350	2.40	17.350	1.06	23.35	0.71
5.367	1.81	11.367	2.40	17.367	1.05	23.37	0.71
5.383	1.81	11.383	2.40	17.383	1.05	23.38	0.71
5.400	1.81	11.400	2.40	17.400	1.05	23.40	0.71
5.417	1.81	11.417	2.40	17.417	1.05	23.42	0.71
5.433	1.81	11.433	2.40	17.433	1.05	23.43	0.71
5.450	1.81	11.450	2.40	17.450	1.05	23.45	0.71
5.467	1.81	11.467	2.40	17.467	1.05	23.47	0.71
5.483	1.81	11.483	2.40	17.483	1.05	23.48	0.71
5.500	1.81	11.500	2.40	17.500	1.05	23.50	0.71
5.517	1.92	11.517	2.31	17.517	1.04	23.52	0.70
5.533	1.92	11.533	2.31	17.533	1.04	23.53	0.70
5.550	1.92	11.550	2.31	17.550	1.04	23.55	0.70
5.567	1.92	11.567	2.31	17.567	1.04	23.57	0.70

5.583	1.92	11.583	2.31	17.583	1.04	23.58	0.70
5.600	1.92	11.600	2.31	17.600	1.04	23.60	0.70
5.617	1.92	11.617	2.31	17.617	1.04	23.62	0.70
5.633	1.92	11.633	2.31	17.633	1.04	23.63	0.70
5.650	1.92	11.650	2.31	17.650	1.04	23.65	0.70
5.667	1.92	11.667	2.31	17.667	1.04	23.67	0.70
5.683	2.04	11.683	2.23	17.683	1.03	23.68	0.70
5.700	2.04	11.700	2.23	17.700	1.03	23.70	0.70
5.717	2.04	11.717	2.23	17.717	1.03	23.72	0.70
5.733	2.04	11.733	2.23	17.733	1.03	23.73	0.70
5.750	2.04	11.750	2.23	17.750	1.03	23.75	0.70
5.767	2.04	11.767	2.23	17.767	1.03	23.77	0.70
5.783	2.04	11.783	2.23	17.783	1.03	23.78	0.70
5.800	2.04	11.800	2.23	17.800	1.03	23.80	0.70
5.817	2.04	11.817	2.23	17.817	1.03	23.82	0.70
5.833	2.04	11.833	2.23	17.833	1.03	23.83	0.70
5.850	2.18	11.850	2.15	17.850	1.01	23.85	0.69
5.867	2.18	11.867	2.15	17.867	1.01	23.87	0.69
5.883	2.18	11.883	2.15	17.883	1.01	23.88	0.69
5.900	2.18	11.900	2.15	17.900	1.01	23.90	0.69
5.917	2.18	11.917	2.15	17.917	1.01	23.92	0.69
5.933	2.18	11.933	2.15	17.933	1.01	23.93	0.69
5.950	2.18	11.950	2.15	17.950	1.01	23.95	0.69
5.967	2.18	11.967	2.15	17.967	1.01	23.97	0.69
5.983	2.18	11.983	2.15	17.983	1.01	23.98	0.69
6.000	2.18	12.000	2.15	18.000	1.01	24.00	0.69

Max.Eff.Inten.(mm/hr)=	121.81	106.02	
over (min)	5.00	12.00	
Storage Coeff. (min)=	4.76 (ii)	11.39 (ii)	
Unit Hyd. Tpeak (min)=	5.00	12.00	
Unit Hyd. peak (cms)=	0.23	0.10	
		TOTALS	
PEAK FLOW (cms)=	2.20	1.34	3.220 (iii)
TIME TO PEAK (hrs)=	8.02	8.13	8.03
RUNOFF VOLUME (mm)=	79.05	66.55	72.69
TOTAL RAINFALL (mm)=	80.06	80.06	80.06
RUNOFF COEFFICIENT =	0.99	0.83	0.91

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 94.0 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.

```
      V    V   I    SSSSS  U   U    A    L              (v 6.2.2019)
      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

       OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
      O   O    T      T    H   H   Y Y   MM MM  O   O
      O   O    T      T    H   H    Y    M   M  O   O
       OOO     T      T    H   H    Y    M   M   OOO
Developed and Distributed by Smart City Water Inc
Copyright 2007 - 2022 Smart City Water Inc
All rights reserved.

                  *****  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\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\acddb8
ba-9d74-4cd2-a420-08c4f24a6bdf\scenari
  Summary filename:
C:\Users\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\acddb8
ba-9d74-4cd2-a420-08c4f24a6bdf\scenari


DATE: 01-27-2026                          TIME: 02:07:39

USER:


COMMENTS: _____________________________________________________________


--------------------------------------------------------------------------------
-------------------------
  **********************************************
  ** SIMULATION : 5 - 25-Year 24hr Chic - Milto **
  **********************************************

--------------------
| CHICAGO STORM    |    IDF curve parameters: A=1234.000
| Ptotal= 97.01 mm |                          B=   5.500
--------------------                          C=   0.786
                        used in:   INTENSITY =  A / (t + B)^C

                        Duration of storm  = 24.00 hrs
```

Storm time step = 10.00 min
Time to peak ratio = 0.33

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.00	0.89	6.00	2.92	12.00	2.59	18.00	1.26
0.17	0.91	6.17	3.17	12.17	2.50	18.17	1.24
0.33	0.92	6.33	3.47	12.33	2.43	18.33	1.22
0.50	0.94	6.50	3.84	12.50	2.36	18.50	1.21
0.67	0.96	6.67	4.31	12.67	2.29	18.67	1.19
0.83	0.98	6.83	4.94	12.83	2.23	18.83	1.18
1.00	1.00	7.00	5.82	13.00	2.17	19.00	1.17
1.17	1.02	7.17	7.15	13.17	2.11	19.17	1.15
1.33	1.04	7.33	9.42	13.33	2.06	19.33	1.14
1.50	1.06	7.50	14.31	13.50	2.01	19.50	1.13
1.67	1.08	7.67	34.08	13.67	1.97	19.67	1.11
1.83	1.11	7.83	143.01	13.83	1.92	19.83	1.10
2.00	1.13	8.00	44.65	14.00	1.88	20.00	1.09
2.17	1.16	8.17	23.56	14.17	1.84	20.17	1.08
2.33	1.19	8.33	16.20	14.33	1.80	20.33	1.07
2.50	1.22	8.50	12.46	14.50	1.76	20.50	1.05
2.67	1.25	8.67	10.19	14.67	1.73	20.67	1.04
2.83	1.28	8.83	8.67	14.83	1.70	20.83	1.03
3.00	1.32	9.00	7.57	15.00	1.66	21.00	1.02
3.17	1.35	9.17	6.74	15.17	1.63	21.17	1.01
3.33	1.39	9.33	6.09	15.33	1.60	21.33	1.00
3.50	1.44	9.50	5.56	15.50	1.58	21.50	0.99
3.67	1.48	9.67	5.13	15.67	1.55	21.67	0.98
3.83	1.53	9.83	4.76	15.83	1.52	21.83	0.97
4.00	1.59	10.00	4.45	16.00	1.50	22.00	0.96
4.17	1.65	10.17	4.18	16.17	1.47	22.17	0.96
4.33	1.71	10.33	3.95	16.33	1.45	22.33	0.95
4.50	1.78	10.50	3.74	16.50	1.43	22.50	0.94
4.67	1.86	10.67	3.55	16.67	1.41	22.67	0.93
4.83	1.94	10.83	3.39	16.83	1.39	22.83	0.92
5.00	2.03	11.00	3.24	17.00	1.37	23.00	0.91
5.17	2.14	11.17	3.11	17.17	1.35	23.17	0.91
5.33	2.26	11.33	2.98	17.33	1.33	23.33	0.90
5.50	2.39	11.50	2.87	17.50	1.31	23.50	0.89
5.67	2.54	11.67	2.77	17.67	1.29	23.67	0.88
5.83	2.72	11.83	2.67	17.83	1.27	23.83	0.88

CALIB
STANDHYD (0001)
ID= 1 DT= 1.0 min

Area (ha)= 15.57
Total Imp(%)= 49.00 Dir. Conn.(%)= 49.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	7.63	7.94
Dep. Storage (mm)=	1.00	5.00
Average Slope (%)=	1.00	2.00
Length (m)=	322.18	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 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
0.017	0.89	6.017	2.92	12.017	2.59	18.02	1.26
0.033	0.89	6.033	2.92	12.033	2.59	18.03	1.26
0.050	0.89	6.050	2.92	12.050	2.59	18.05	1.26
0.067	0.89	6.067	2.92	12.067	2.59	18.07	1.26
0.083	0.89	6.083	2.92	12.083	2.59	18.08	1.26
0.100	0.89	6.100	2.92	12.100	2.59	18.10	1.26
0.117	0.89	6.117	2.92	12.117	2.59	18.12	1.26
0.133	0.89	6.133	2.92	12.133	2.59	18.13	1.26
0.150	0.89	6.150	2.92	12.150	2.59	18.15	1.26
0.167	0.89	6.167	2.92	12.167	2.59	18.17	1.26
0.183	0.91	6.183	3.17	12.183	2.50	18.18	1.24
0.200	0.91	6.200	3.17	12.200	2.50	18.20	1.24
0.217	0.91	6.217	3.17	12.217	2.50	18.22	1.24
0.233	0.91	6.233	3.17	12.233	2.50	18.23	1.24
0.250	0.91	6.250	3.17	12.250	2.50	18.25	1.24
0.267	0.91	6.267	3.17	12.267	2.50	18.27	1.24
0.283	0.91	6.283	3.17	12.283	2.50	18.28	1.24
0.300	0.91	6.300	3.17	12.300	2.50	18.30	1.24
0.317	0.91	6.317	3.17	12.317	2.50	18.32	1.24
0.333	0.91	6.333	3.17	12.333	2.50	18.33	1.24
0.350	0.92	6.350	3.47	12.350	2.43	18.35	1.22
0.367	0.92	6.367	3.47	12.367	2.43	18.37	1.22
0.383	0.92	6.383	3.47	12.383	2.43	18.38	1.22
0.400	0.92	6.400	3.47	12.400	2.43	18.40	1.22
0.417	0.92	6.417	3.47	12.417	2.43	18.42	1.22
0.433	0.92	6.433	3.47	12.433	2.43	18.43	1.22
0.450	0.92	6.450	3.47	12.450	2.43	18.45	1.22
0.467	0.92	6.467	3.47	12.467	2.43	18.47	1.22
0.483	0.92	6.483	3.47	12.483	2.43	18.48	1.22
0.500	0.92	6.500	3.47	12.500	2.43	18.50	1.22
0.517	0.94	6.517	3.84	12.517	2.36	18.52	1.21
0.533	0.94	6.533	3.84	12.533	2.36	18.53	1.21
0.550	0.94	6.550	3.84	12.550	2.36	18.55	1.21
0.567	0.94	6.567	3.84	12.567	2.36	18.57	1.21
0.583	0.94	6.583	3.84	12.583	2.36	18.58	1.21
0.600	0.94	6.600	3.84	12.600	2.36	18.60	1.21
0.617	0.94	6.617	3.84	12.617	2.36	18.62	1.21
0.633	0.94	6.633	3.84	12.633	2.36	18.63	1.21
0.650	0.94	6.650	3.84	12.650	2.36	18.65	1.21
0.667	0.94	6.667	3.84	12.667	2.36	18.67	1.21
0.683	0.96	6.683	4.31	12.683	2.29	18.68	1.19
0.700	0.96	6.700	4.31	12.700	2.29	18.70	1.19
0.717	0.96	6.717	4.31	12.717	2.29	18.72	1.19
0.733	0.96	6.733	4.31	12.733	2.29	18.73	1.19
0.750	0.96	6.750	4.31	12.750	2.29	18.75	1.19
0.767	0.96	6.767	4.31	12.767	2.29	18.77	1.19
0.783	0.96	6.783	4.31	12.783	2.29	18.78	1.19
0.800	0.96	6.800	4.31	12.800	2.29	18.80	1.19
0.817	0.96	6.817	4.31	12.817	2.29	18.82	1.19
0.833	0.96	6.833	4.31	12.833	2.29	18.83	1.19
0.850	0.98	6.850	4.94	12.850	2.23	18.85	1.18
0.867	0.98	6.867	4.94	12.867	2.23	18.87	1.18
0.883	0.98	6.883	4.94	12.883	2.23	18.88	1.18
0.900	0.98	6.900	4.94	12.900	2.23	18.90	1.18
0.917	0.98	6.917	4.94	12.917	2.23	18.92	1.18
0.933	0.98	6.933	4.94	12.933	2.23	18.93	1.18
0.950	0.98	6.950	4.94	12.950	2.23	18.95	1.18
0.967	0.98	6.967	4.94	12.967	2.23	18.97	1.18
0.983	0.98	6.983	4.94	12.983	2.23	18.98	1.18
1.000	0.98	7.000	4.94	13.000	2.23	19.00	1.18
1.017	1.00	7.017	5.82	13.017	2.17	19.02	1.17
1.033	1.00	7.033	5.82	13.033	2.17	19.03	1.17
1.050	1.00	7.050	5.82	13.050	2.17	19.05	1.17
1.067	1.00	7.067	5.82	13.067	2.17	19.07	1.17
1.083	1.00	7.083	5.82	13.083	2.17	19.08	1.17
1.100	1.00	7.100	5.82	13.100	2.17	19.10	1.17
1.117	1.00	7.117	5.82	13.117	2.17	19.12	1.17
1.133	1.00	7.133	5.82	13.133	2.17	19.13	1.17
1.150	1.00	7.150	5.82	13.150	2.17	19.15	1.17
1.167	1.00	7.167	5.82	13.167	2.17	19.17	1.17
1.183	1.02	7.183	7.15	13.183	2.11	19.18	1.15
1.200	1.02	7.200	7.15	13.200	2.11	19.20	1.15
1.217	1.02	7.217	7.15	13.217	2.11	19.22	1.15
1.233	1.02	7.233	7.15	13.233	2.11	19.23	1.15
1.250	1.02	7.250	7.15	13.250	2.11	19.25	1.15
1.267	1.02	7.267	7.15	13.267	2.11	19.27	1.15
1.283	1.02	7.283	7.15	13.283	2.11	19.28	1.15
1.300	1.02	7.300	7.15	13.300	2.11	19.30	1.15
1.317	1.02	7.317	7.15	13.317	2.11	19.32	1.15
1.333	1.02	7.333	7.15	13.333	2.11	19.33	1.15
1.350	1.04	7.350	9.42	13.350	2.06	19.35	1.14
1.367	1.04	7.367	9.42	13.367	2.06	19.37	1.14
1.383	1.04	7.383	9.42	13.383	2.06	19.38	1.14
1.400	1.04	7.400	9.42	13.400	2.06	19.40	1.14
1.417	1.04	7.417	9.42	13.417	2.06	19.42	1.14
1.433	1.04	7.433	9.42	13.433	2.06	19.43	1.14
1.450	1.04	7.450	9.42	13.450	2.06	19.45	1.14
1.467	1.04	7.467	9.42	13.467	2.06	19.47	1.14
1.483	1.04	7.483	9.42	13.483	2.06	19.48	1.14
1.500	1.04	7.500	9.43	13.500	2.06	19.50	1.14
1.517	1.06	7.517	14.31	13.517	2.01	19.52	1.13
1.533	1.06	7.533	14.31	13.533	2.01	19.53	1.13
1.550	1.06	7.550	14.31	13.550	2.01	19.55	1.13
1.567	1.06	7.567	14.31	13.567	2.01	19.57	1.13
1.583	1.06	7.583	14.31	13.583	2.01	19.58	1.13
1.600	1.06	7.600	14.31	13.600	2.01	19.60	1.13
1.617	1.06	7.617	14.31	13.617	2.01	19.62	1.13
1.633	1.06	7.633	14.31	13.633	2.01	19.63	1.13
1.650	1.06	7.650	14.31	13.650	2.01	19.65	1.13
1.667	1.06	7.667	14.37	13.667	2.01	19.67	1.13
1.683	1.08	7.683	34.08	13.683	1.97	19.68	1.11
1.700	1.08	7.700	34.08	13.700	1.97	19.70	1.11
1.717	1.08	7.717	34.08	13.717	1.97	19.72	1.11
1.733	1.08	7.733	34.08	13.733	1.97	19.73	1.11
1.750	1.08	7.750	34.08	13.750	1.97	19.75	1.11
1.767	1.08	7.767	34.08	13.767	1.97	19.77	1.11
1.783	1.08	7.783	34.08	13.783	1.97	19.78	1.11
1.800	1.08	7.800	34.08	13.800	1.97	19.80	1.11
1.817	1.08	7.817	34.08	13.817	1.97	19.82	1.11
1.833	1.08	7.833	34.39	13.833	1.97	19.83	1.11
1.850	1.11	7.850	143.01	13.850	1.92	19.85	1.10
1.867	1.11	7.867	143.01	13.867	1.92	19.87	1.10
1.883	1.11	7.883	143.01	13.883	1.92	19.88	1.10
1.900	1.11	7.900	143.01	13.900	1.92	19.90	1.10
1.917	1.11	7.917	143.01	13.917	1.92	19.92	1.10
1.933	1.11	7.933	143.01	13.933	1.92	19.93	1.10
1.950	1.11	7.950	143.01	13.950	1.92	19.95	1.10
1.967	1.11	7.967	143.01	13.967	1.92	19.97	1.10
1.983	1.11	7.983	143.01	13.983	1.92	19.98	1.10
2.000	1.11	8.000	142.72	14.000	1.92	20.00	1.10
2.017	1.13	8.017	44.65	14.017	1.88	20.02	1.09
2.033	1.13	8.033	44.65	14.033	1.88	20.03	1.09
2.050	1.13	8.050	44.65	14.050	1.88	20.05	1.09
2.067	1.13	8.067	44.65	14.067	1.88	20.07	1.09
2.083	1.13	8.083	44.65	14.083	1.88	20.08	1.09
2.100	1.13	8.100	44.65	14.100	1.88	20.10	1.09
2.117	1.13	8.117	44.65	14.117	1.88	20.12	1.09
2.133	1.13	8.133	44.65	14.133	1.88	20.13	1.09
2.150	1.13	8.150	44.65	14.150	1.88	20.15	1.09
2.167	1.13	8.167	44.59	14.167	1.88	20.17	1.09
2.183	1.16	8.183	23.56	14.183	1.84	20.18	1.08
2.200	1.16	8.200	23.56	14.200	1.84	20.20	1.08
2.217	1.16	8.217	23.56	14.217	1.84	20.22	1.08
2.233	1.16	8.233	23.56	14.233	1.84	20.23	1.08
2.250	1.16	8.250	23.56	14.250	1.84	20.25	1.08
2.267	1.16	8.267	23.56	14.267	1.84	20.27	1.08
2.283	1.16	8.283	23.56	14.283	1.84	20.28	1.08
2.300	1.16	8.300	23.56	14.300	1.84	20.30	1.08

2.317	1.16	8.317	23.56	14.317	1.84	20.32	1.08
2.333	1.16	8.333	23.54	14.333	1.84	20.33	1.08
2.350	1.19	8.350	16.20	14.350	1.80	20.35	1.07
2.367	1.19	8.367	16.20	14.367	1.80	20.37	1.07
2.383	1.19	8.383	16.20	14.383	1.80	20.38	1.07
2.400	1.19	8.400	16.20	14.400	1.80	20.40	1.07
2.417	1.19	8.417	16.20	14.417	1.80	20.42	1.07
2.433	1.19	8.433	16.20	14.433	1.80	20.43	1.07
2.450	1.19	8.450	16.20	14.450	1.80	20.45	1.07
2.467	1.19	8.467	16.20	14.467	1.80	20.47	1.07
2.483	1.19	8.483	16.20	14.483	1.80	20.48	1.07
2.500	1.19	8.500	16.19	14.500	1.80	20.50	1.07
2.517	1.22	8.517	12.46	14.517	1.76	20.52	1.05
2.533	1.22	8.533	12.46	14.533	1.76	20.53	1.05
2.550	1.22	8.550	12.46	14.550	1.76	20.55	1.05
2.567	1.22	8.567	12.46	14.567	1.76	20.57	1.05
2.583	1.22	8.583	12.46	14.583	1.76	20.58	1.05
2.600	1.22	8.600	12.46	14.600	1.76	20.60	1.05
2.617	1.22	8.617	12.46	14.617	1.76	20.62	1.05
2.633	1.22	8.633	12.46	14.633	1.76	20.63	1.05
2.650	1.22	8.650	12.46	14.650	1.76	20.65	1.05
2.667	1.22	8.667	12.45	14.667	1.76	20.67	1.05
2.683	1.25	8.683	10.19	14.683	1.73	20.68	1.04
2.700	1.25	8.700	10.19	14.700	1.73	20.70	1.04
2.717	1.25	8.717	10.19	14.717	1.73	20.72	1.04
2.733	1.25	8.733	10.19	14.733	1.73	20.73	1.04
2.750	1.25	8.750	10.19	14.750	1.73	20.75	1.04
2.767	1.25	8.767	10.19	14.767	1.73	20.77	1.04
2.783	1.25	8.783	10.19	14.783	1.73	20.78	1.04
2.800	1.25	8.800	10.19	14.800	1.73	20.80	1.04
2.817	1.25	8.817	10.19	14.817	1.73	20.82	1.04
2.833	1.25	8.833	10.19	14.833	1.73	20.83	1.04
2.850	1.28	8.850	8.67	14.850	1.70	20.85	1.03
2.867	1.28	8.867	8.67	14.867	1.70	20.87	1.03
2.883	1.28	8.883	8.67	14.883	1.70	20.88	1.03
2.900	1.28	8.900	8.67	14.900	1.70	20.90	1.03
2.917	1.28	8.917	8.67	14.917	1.70	20.92	1.03
2.933	1.28	8.933	8.67	14.933	1.70	20.93	1.03
2.950	1.28	8.950	8.67	14.950	1.70	20.95	1.03
2.967	1.28	8.967	8.67	14.967	1.70	20.97	1.03
2.983	1.28	8.983	8.67	14.983	1.70	20.98	1.03
3.000	1.28	9.000	8.67	15.000	1.70	21.00	1.03
3.017	1.32	9.017	7.57	15.017	1.66	21.02	1.02
3.033	1.32	9.033	7.57	15.033	1.66	21.03	1.02
3.050	1.32	9.050	7.57	15.050	1.66	21.05	1.02
3.067	1.32	9.067	7.57	15.067	1.66	21.07	1.02
3.083	1.32	9.083	7.57	15.083	1.66	21.08	1.02
3.100	1.32	9.100	7.57	15.100	1.66	21.10	1.02
3.117	1.32	9.117	7.57	15.117	1.66	21.12	1.02
3.133	1.32	9.133	7.57	15.133	1.66	21.13	1.02
3.150	1.32	9.150	7.57	15.150	1.66	21.15	1.02
3.167	1.32	9.167	7.57	15.167	1.66	21.17	1.02
3.183	1.35	9.183	6.74	15.183	1.63	21.18	1.01
3.200	1.35	9.200	6.74	15.200	1.63	21.20	1.01
3.217	1.35	9.217	6.74	15.217	1.63	21.22	1.01
3.233	1.35	9.233	6.74	15.233	1.63	21.23	1.01
3.250	1.35	9.250	6.74	15.250	1.63	21.25	1.01
3.267	1.35	9.267	6.74	15.267	1.63	21.27	1.01
3.283	1.35	9.283	6.74	15.283	1.63	21.28	1.01
3.300	1.35	9.300	6.74	15.300	1.63	21.30	1.01
3.317	1.35	9.317	6.74	15.317	1.63	21.32	1.01
3.333	1.35	9.333	6.74	15.333	1.63	21.33	1.01
3.350	1.39	9.350	6.09	15.350	1.60	21.35	1.00
3.367	1.39	9.367	6.09	15.367	1.60	21.37	1.00
3.383	1.39	9.383	6.09	15.383	1.60	21.38	1.00
3.400	1.39	9.400	6.09	15.400	1.60	21.40	1.00
3.417	1.39	9.417	6.09	15.417	1.60	21.42	1.00
3.433	1.39	9.433	6.09	15.433	1.60	21.43	1.00
3.450	1.39	9.450	6.09	15.450	1.60	21.45	1.00
3.467	1.39	9.467	6.09	15.467	1.60	21.47	1.00
3.483	1.39	9.483	6.09	15.483	1.60	21.48	1.00
3.500	1.39	9.500	6.09	15.500	1.60	21.50	1.00
3.517	1.44	9.517	5.56	15.517	1.58	21.52	0.99
3.533	1.44	9.533	5.56	15.533	1.58	21.53	0.99
3.550	1.44	9.550	5.56	15.550	1.58	21.55	0.99
3.567	1.44	9.567	5.56	15.567	1.58	21.57	0.99
3.583	1.44	9.583	5.56	15.583	1.58	21.58	0.99
3.600	1.44	9.600	5.56	15.600	1.58	21.60	0.99
3.617	1.44	9.617	5.56	15.617	1.58	21.62	0.99
3.633	1.44	9.633	5.56	15.633	1.58	21.63	0.99
3.650	1.44	9.650	5.56	15.650	1.58	21.65	0.99
3.667	1.44	9.667	5.56	15.667	1.58	21.67	0.99
3.683	1.48	9.683	5.13	15.683	1.55	21.68	0.98
3.700	1.48	9.700	5.13	15.700	1.55	21.70	0.98
3.717	1.48	9.717	5.13	15.717	1.55	21.72	0.98
3.733	1.48	9.733	5.13	15.733	1.55	21.73	0.98
3.750	1.48	9.750	5.13	15.750	1.55	21.75	0.98
3.767	1.48	9.767	5.13	15.767	1.55	21.77	0.98
3.783	1.48	9.783	5.13	15.783	1.55	21.78	0.98
3.800	1.48	9.800	5.13	15.800	1.55	21.80	0.98
3.817	1.48	9.817	5.13	15.817	1.55	21.82	0.98
3.833	1.48	9.833	5.13	15.833	1.55	21.83	0.98
3.850	1.53	9.850	4.76	15.850	1.52	21.85	0.97
3.867	1.53	9.867	4.76	15.867	1.52	21.87	0.97
3.883	1.53	9.883	4.76	15.883	1.52	21.88	0.97
3.900	1.53	9.900	4.76	15.900	1.52	21.90	0.97
3.917	1.53	9.917	4.76	15.917	1.52	21.92	0.97
3.933	1.53	9.933	4.76	15.933	1.52	21.93	0.97
3.950	1.53	9.950	4.76	15.950	1.52	21.95	0.97
3.967	1.53	9.967	4.76	15.967	1.52	21.97	0.97
3.983	1.53	9.983	4.76	15.983	1.52	21.98	0.97
4.000	1.53	10.000	4.76	16.000	1.52	22.00	0.97
4.017	1.59	10.017	4.45	16.017	1.50	22.02	0.96
4.033	1.59	10.033	4.45	16.033	1.50	22.03	0.96
4.050	1.59	10.050	4.45	16.050	1.50	22.05	0.96
4.067	1.59	10.067	4.45	16.067	1.50	22.07	0.96
4.083	1.59	10.083	4.45	16.083	1.50	22.08	0.96
4.100	1.59	10.100	4.45	16.100	1.50	22.10	0.96
4.117	1.59	10.117	4.45	16.117	1.50	22.12	0.96
4.133	1.59	10.133	4.45	16.133	1.50	22.13	0.96
4.150	1.59	10.150	4.45	16.150	1.50	22.15	0.96
4.167	1.59	10.167	4.45	16.167	1.50	22.17	0.96
4.183	1.65	10.183	4.18	16.183	1.47	22.18	0.96
4.200	1.65	10.200	4.18	16.200	1.47	22.20	0.96
4.217	1.65	10.217	4.18	16.217	1.47	22.22	0.96
4.233	1.65	10.233	4.18	16.233	1.47	22.23	0.96
4.250	1.65	10.250	4.18	16.250	1.47	22.25	0.96
4.267	1.65	10.267	4.18	16.267	1.47	22.27	0.96
4.283	1.65	10.283	4.18	16.283	1.47	22.28	0.96
4.300	1.65	10.300	4.18	16.300	1.47	22.30	0.96
4.317	1.65	10.317	4.18	16.317	1.47	22.32	0.96
4.333	1.65	10.333	4.18	16.333	1.47	22.33	0.96
4.350	1.71	10.350	3.95	16.350	1.45	22.35	0.95
4.367	1.71	10.367	3.95	16.367	1.45	22.37	0.95
4.383	1.71	10.383	3.95	16.383	1.45	22.38	0.95
4.400	1.71	10.400	3.95	16.400	1.45	22.40	0.95
4.417	1.71	10.417	3.95	16.417	1.45	22.42	0.95
4.433	1.71	10.433	3.95	16.433	1.45	22.43	0.95
4.450	1.71	10.450	3.95	16.450	1.45	22.45	0.95
4.467	1.71	10.467	3.95	16.467	1.45	22.47	0.95
4.483	1.71	10.483	3.95	16.483	1.45	22.48	0.95
4.500	1.71	10.500	3.95	16.500	1.45	22.50	0.95
4.517	1.78	10.517	3.74	16.517	1.43	22.52	0.94
4.533	1.78	10.533	3.74	16.533	1.43	22.53	0.94
4.550	1.78	10.550	3.74	16.550	1.43	22.55	0.94
4.567	1.78	10.567	3.74	16.567	1.43	22.57	0.94
4.583	1.78	10.583	3.74	16.583	1.43	22.58	0.94
4.600	1.78	10.600	3.74	16.600	1.43	22.60	0.94
4.617	1.78	10.617	3.74	16.617	1.43	22.62	0.94
4.633	1.78	10.633	3.74	16.633	1.43	22.63	0.94
4.650	1.78	10.650	3.74	16.650	1.43	22.65	0.94
4.667	1.78	10.667	3.74	16.667	1.43	22.67	0.94
4.683	1.86	10.683	3.55	16.683	1.41	22.68	0.93
4.700	1.86	10.700	3.55	16.700	1.41	22.70	0.93
4.717	1.86	10.717	3.55	16.717	1.41	22.72	0.93
4.733	1.86	10.733	3.55	16.733	1.41	22.73	0.93
4.750	1.86	10.750	3.55	16.750	1.41	22.75	0.93
4.767	1.86	10.767	3.55	16.767	1.41	22.77	0.93
4.783	1.86	10.783	3.55	16.783	1.41	22.78	0.93
4.800	1.86	10.800	3.55	16.800	1.41	22.80	0.93
4.817	1.86	10.817	3.55	16.817	1.41	22.82	0.93
4.833	1.86	10.833	3.55	16.833	1.41	22.83	0.93
4.850	1.94	10.850	3.39	16.850	1.39	22.85	0.92
4.867	1.94	10.867	3.39	16.867	1.39	22.87	0.92
4.883	1.94	10.883	3.39	16.883	1.39	22.88	0.92
4.900	1.94	10.900	3.39	16.900	1.39	22.90	0.92
4.917	1.94	10.917	3.39	16.917	1.39	22.92	0.92
4.933	1.94	10.933	3.39	16.933	1.39	22.93	0.92
4.950	1.94	10.950	3.39	16.950	1.39	22.95	0.92
4.967	1.94	10.967	3.39	16.967	1.39	22.97	0.92
4.983	1.94	10.983	3.39	16.983	1.39	22.98	0.92
5.000	1.94	11.000	3.39	17.000	1.39	23.00	0.92
5.017	2.03	11.017	3.24	17.017	1.37	23.02	0.91
5.033	2.03	11.033	3.24	17.033	1.37	23.03	0.91
5.050	2.03	11.050	3.24	17.050	1.37	23.05	0.91
5.067	2.03	11.067	3.24	17.067	1.37	23.07	0.91
5.083	2.03	11.083	3.24	17.083	1.37	23.08	0.91
5.100	2.03	11.100	3.24	17.100	1.37	23.10	0.91
5.117	2.03	11.117	3.24	17.117	1.37	23.12	0.91
5.133	2.03	11.133	3.24	17.133	1.37	23.13	0.91
5.150	2.03	11.150	3.24	17.150	1.37	23.15	0.91
5.167	2.03	11.167	3.24	17.167	1.37	23.17	0.91
5.183	2.14	11.183	3.11	17.183	1.35	23.18	0.91
5.200	2.14	11.200	3.11	17.200	1.35	23.20	0.91
5.217	2.14	11.217	3.11	17.217	1.35	23.22	0.91
5.233	2.14	11.233	3.11	17.233	1.35	23.23	0.91
5.250	2.14	11.250	3.11	17.250	1.35	23.25	0.91
5.267	2.14	11.267	3.11	17.267	1.35	23.27	0.91
5.283	2.14	11.283	3.11	17.283	1.35	23.28	0.91
5.300	2.14	11.300	3.11	17.300	1.35	23.30	0.91
5.317	2.14	11.317	3.11	17.317	1.35	23.32	0.91
5.333	2.14	11.333	3.11	17.333	1.35	23.33	0.91
5.350	2.26	11.350	2.98	17.350	1.33	23.35	0.90
5.367	2.26	11.367	2.98	17.367	1.33	23.37	0.90
5.383	2.26	11.383	2.98	17.383	1.33	23.38	0.90
5.400	2.26	11.400	2.98	17.400	1.33	23.40	0.90
5.417	2.26	11.417	2.98	17.417	1.33	23.42	0.90
5.433	2.26	11.433	2.98	17.433	1.33	23.43	0.90
5.450	2.26	11.450	2.98	17.450	1.33	23.45	0.90
5.467	2.26	11.467	2.98	17.467	1.33	23.47	0.90
5.483	2.26	11.483	2.98	17.483	1.33	23.48	0.90
5.500	2.26	11.500	2.98	17.500	1.33	23.50	0.90
5.517	2.39	11.517	2.87	17.517	1.31	23.52	0.89
5.533	2.39	11.533	2.87	17.533	1.31	23.53	0.89
5.550	2.39	11.550	2.87	17.550	1.31	23.55	0.89
5.567	2.39	11.567	2.87	17.567	1.31	23.57	0.89
5.583	2.39	11.583	2.87	17.583	1.31	23.58	0.89
5.600	2.39	11.600	2.87	17.600	1.31	23.60	0.89
5.617	2.39	11.617	2.87	17.617	1.31	23.62	0.89
5.633	2.39	11.633	2.87	17.633	1.31	23.63	0.89

5.650	2.39	11.650	2.87	17.650	1.31	23.65	0.89
5.667	2.39	11.667	2.87	17.667	1.31	23.67	0.89
5.683	2.54	11.683	2.77	17.683	1.29	23.68	0.88
5.700	2.54	11.700	2.77	17.700	1.29	23.70	0.88
5.717	2.54	11.717	2.77	17.717	1.29	23.72	0.88
5.733	2.54	11.733	2.77	17.733	1.29	23.73	0.88
5.750	2.54	11.750	2.77	17.750	1.29	23.75	0.88
5.767	2.54	11.767	2.77	17.767	1.29	23.77	0.88
5.783	2.54	11.783	2.77	17.783	1.29	23.78	0.88
5.800	2.54	11.800	2.77	17.800	1.29	23.80	0.88
5.817	2.54	11.817	2.77	17.817	1.29	23.82	0.88
5.833	2.54	11.833	2.77	17.833	1.29	23.83	0.88
5.850	2.72	11.850	2.67	17.850	1.27	23.85	0.88
5.867	2.72	11.867	2.67	17.867	1.27	23.87	0.88
5.883	2.72	11.883	2.67	17.883	1.27	23.88	0.88
5.900	2.72	11.900	2.67	17.900	1.27	23.90	0.88
5.917	2.72	11.917	2.67	17.917	1.27	23.92	0.88
5.933	2.72	11.933	2.67	17.933	1.27	23.93	0.88
5.950	2.72	11.950	2.67	17.950	1.27	23.95	0.88
5.967	2.72	11.967	2.67	17.967	1.27	23.97	0.88
5.983	2.72	11.983	2.67	17.983	1.27	23.98	0.88
6.000	2.72	12.000	2.67	18.000	1.27	24.00	0.88

Max.Eff.Inten.(mm/hr)=		143.01	92.02
over (min)		5.00	11.00
Storage Coeff. (min)=		4.47 (ii)	10.68 (ii)
Unit Hyd. Tpeak (min)=		5.00	11.00
Unit Hyd. peak (cms)=		0.24	0.10
			TOTALS
PEAK FLOW	(cms)=	2.62	1.21	3.532 (iii)
TIME TO PEAK	(hrs)=	8.02	8.13	8.03
RUNOFF VOLUME	(mm)=	96.00	61.85	78.59
TOTAL RAINFALL	(mm)=	97.01	97.01	97.01
RUNOFF COEFFICIENT	=	0.99	0.64	0.81

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 85.0 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		
STANDHYD (0002)	Area	(ha)= 15.57
ID= 1 DT= 1.0 min	Total Imp(%)=	49.00 Dir. Conn.(%)= 49.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	7.63	7.94
Dep. Storage	(mm)=	1.00	0.00
Average Slope	(%)=	1.00	2.00
Length	(m)=	322.18	40.00
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 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
0.017	0.89	6.017	2.92	12.017	2.59	18.02	1.26
0.033	0.89	6.033	2.92	12.033	2.59	18.03	1.26
0.050	0.89	6.050	2.92	12.050	2.59	18.05	1.26
0.067	0.89	6.067	2.92	12.067	2.59	18.07	1.26
0.083	0.89	6.083	2.92	12.083	2.59	18.08	1.26
0.100	0.89	6.100	2.92	12.100	2.59	18.10	1.26
0.117	0.89	6.117	2.92	12.117	2.59	18.12	1.26
0.133	0.89	6.133	2.92	12.133	2.59	18.13	1.26
0.150	0.89	6.150	2.92	12.150	2.59	18.15	1.26
0.167	0.89	6.167	2.92	12.167	2.59	18.17	1.26
0.183	0.91	6.183	3.17	12.183	2.50	18.18	1.24
0.200	0.91	6.200	3.17	12.200	2.50	18.20	1.24
0.217	0.91	6.217	3.17	12.217	2.50	18.22	1.24
0.233	0.91	6.233	3.17	12.233	2.50	18.23	1.24
0.250	0.91	6.250	3.17	12.250	2.50	18.25	1.24
0.267	0.91	6.267	3.17	12.267	2.50	18.27	1.24
0.283	0.91	6.283	3.17	12.283	2.50	18.28	1.24
0.300	0.91	6.300	3.17	12.300	2.50	18.30	1.24
0.317	0.91	6.317	3.17	12.317	2.50	18.32	1.24
0.333	0.91	6.333	3.17	12.333	2.50	18.33	1.24
0.350	0.92	6.350	3.47	12.350	2.43	18.35	1.22
0.367	0.92	6.367	3.47	12.367	2.43	18.37	1.22
0.383	0.92	6.383	3.47	12.383	2.43	18.38	1.22
0.400	0.92	6.400	3.47	12.400	2.43	18.40	1.22
0.417	0.92	6.417	3.47	12.417	2.43	18.42	1.22
0.433	0.92	6.433	3.47	12.433	2.43	18.43	1.22
0.450	0.92	6.450	3.47	12.450	2.43	18.45	1.22
0.467	0.92	6.467	3.47	12.467	2.43	18.47	1.22
0.483	0.92	6.483	3.47	12.483	2.43	18.48	1.22
0.500	0.92	6.500	3.47	12.500	2.43	18.50	1.22
0.517	0.94	6.517	3.84	12.517	2.36	18.52	1.21
0.533	0.94	6.533	3.84	12.533	2.36	18.53	1.21
0.550	0.94	6.550	3.84	12.550	2.36	18.55	1.21
0.567	0.94	6.567	3.84	12.567	2.36	18.57	1.21
0.583	0.94	6.583	3.84	12.583	2.36	18.58	1.21
0.600	0.94	6.600	3.84	12.600	2.36	18.60	1.21
0.617	0.94	6.617	3.84	12.617	2.36	18.62	1.21
0.633	0.94	6.633	3.84	12.633	2.36	18.63	1.21
0.650	0.94	6.650	3.84	12.650	2.36	18.65	1.21
0.667	0.94	6.667	3.84	12.667	2.36	18.67	1.21
0.683	0.96	6.683	4.31	12.683	2.29	18.68	1.19
0.700	0.96	6.700	4.31	12.700	2.29	18.70	1.19
0.717	0.96	6.717	4.31	12.717	2.29	18.72	1.19
0.733	0.96	6.733	4.31	12.733	2.29	18.73	1.19
0.750	0.96	6.750	4.31	12.750	2.29	18.75	1.19
0.767	0.96	6.767	4.31	12.767	2.29	18.77	1.19
0.783	0.96	6.783	4.31	12.783	2.29	18.78	1.19
0.800	0.96	6.800	4.31	12.800	2.29	18.80	1.19
0.817	0.96	6.817	4.31	12.817	2.29	18.82	1.19
0.833	0.96	6.833	4.31	12.833	2.29	18.83	1.19
0.850	0.98	6.850	4.94	12.850	2.23	18.85	1.18
0.867	0.98	6.867	4.94	12.867	2.23	18.87	1.18
0.883	0.98	6.883	4.94	12.883	2.23	18.88	1.18
0.900	0.98	6.900	4.94	12.900	2.23	18.90	1.18
0.917	0.98	6.917	4.94	12.917	2.23	18.92	1.18
0.933	0.98	6.933	4.94	12.933	2.23	18.93	1.18
0.950	0.98	6.950	4.94	12.950	2.23	18.95	1.18
0.967	0.98	6.967	4.94	12.967	2.23	18.97	1.18
0.983	0.98	6.983	4.94	12.983	2.23	18.98	1.18
1.000	0.98	7.000	4.94	13.000	2.23	19.00	1.18
1.017	1.00	7.017	5.82	13.017	2.17	19.02	1.17
1.033	1.00	7.033	5.82	13.033	2.17	19.03	1.17
1.050	1.00	7.050	5.82	13.050	2.17	19.05	1.17
1.067	1.00	7.067	5.82	13.067	2.17	19.07	1.17
1.083	1.00	7.083	5.82	13.083	2.17	19.08	1.17
1.100	1.00	7.100	5.82	13.100	2.17	19.10	1.17
1.117	1.00	7.117	5.82	13.117	2.17	19.12	1.17
1.133	1.00	7.133	5.82	13.133	2.17	19.13	1.17
1.150	1.00	7.150	5.82	13.150	2.17	19.15	1.17
1.167	1.00	7.167	5.82	13.167	2.17	19.17	1.17
1.183	1.02	7.183	7.15	13.183	2.11	19.18	1.15
1.200	1.02	7.200	7.15	13.200	2.11	19.20	1.15
1.217	1.02	7.217	7.15	13.217	2.11	19.22	1.15
1.233	1.02	7.233	7.15	13.233	2.11	19.23	1.15
1.250	1.02	7.250	7.15	13.250	2.11	19.25	1.15
1.267	1.02	7.267	7.15	13.267	2.11	19.27	1.15
1.283	1.02	7.283	7.15	13.283	2.11	19.28	1.15
1.300	1.02	7.300	7.15	13.300	2.11	19.30	1.15
1.317	1.02	7.317	7.15	13.317	2.11	19.32	1.15
1.333	1.02	7.333	7.15	13.333	2.11	19.33	1.15
1.350	1.04	7.350	9.42	13.350	2.06	19.35	1.14
1.367	1.04	7.367	9.42	13.367	2.06	19.37	1.14
1.383	1.04	7.383	9.42	13.383	2.06	19.38	1.14
1.400	1.04	7.400	9.42	13.400	2.06	19.40	1.14
1.417	1.04	7.417	9.42	13.417	2.06	19.42	1.14
1.433	1.04	7.433	9.42	13.433	2.06	19.43	1.14
1.450	1.04	7.450	9.42	13.450	2.06	19.45	1.14
1.467	1.04	7.467	9.42	13.467	2.06	19.47	1.14
1.483	1.04	7.483	9.42	13.483	2.06	19.48	1.14
1.500	1.04	7.500	9.43	13.500	2.06	19.50	1.14
1.517	1.06	7.517	14.31	13.517	2.01	19.52	1.13
1.533	1.06	7.533	14.31	13.533	2.01	19.53	1.13
1.550	1.06	7.550	14.31	13.550	2.01	19.55	1.13
1.567	1.06	7.567	14.31	13.567	2.01	19.57	1.13
1.583	1.06	7.583	14.31	13.583	2.01	19.58	1.13
1.600	1.06	7.600	14.31	13.600	2.01	19.60	1.13
1.617	1.06	7.617	14.31	13.617	2.01	19.62	1.13
1.633	1.06	7.633	14.31	13.633	2.01	19.63	1.13
1.650	1.06	7.650	14.31	13.650	2.01	19.65	1.13
1.667	1.06	7.667	14.37	13.667	2.01	19.67	1.13
1.683	1.08	7.683	34.08	13.683	1.97	19.68	1.11
1.700	1.08	7.700	34.08	13.700	1.97	19.70	1.11
1.717	1.08	7.717	34.08	13.717	1.97	19.72	1.11
1.733	1.08	7.733	34.08	13.733	1.97	19.73	1.11
1.750	1.08	7.750	34.08	13.750	1.97	19.75	1.11
1.767	1.08	7.767	34.08	13.767	1.97	19.77	1.11
1.783	1.08	7.783	34.08	13.783	1.97	19.78	1.11
1.800	1.08	7.800	34.08	13.800	1.97	19.80	1.11
1.817	1.08	7.817	34.08	13.817	1.97	19.82	1.11
1.833	1.08	7.833	34.39	13.833	1.97	19.83	1.11
1.850	1.11	7.850	143.01	13.850	1.92	19.85	1.10
1.867	1.11	7.867	143.01	13.867	1.92	19.87	1.10
1.883	1.11	7.883	143.01	13.883	1.92	19.88	1.10
1.900	1.11	7.900	143.01	13.900	1.92	19.90	1.10
1.917	1.11	7.917	143.01	13.917	1.92	19.92	1.10
1.933	1.11	7.933	143.01	13.933	1.92	19.93	1.10
1.950	1.11	7.950	143.01	13.950	1.92	19.95	1.10
1.967	1.11	7.967	143.01	13.967	1.92	19.97	1.10
1.983	1.11	7.983	143.01	13.983	1.92	19.98	1.10
2.000	1.11	8.000	142.72	14.000	1.92	20.00	1.10
2.017	1.13	8.017	44.65	14.017	1.88	20.02	1.09
2.033	1.13	8.033	44.65	14.033	1.88	20.03	1.09
2.050	1.13	8.050	44.65	14.050	1.88	20.05	1.09
2.067	1.13	8.067	44.65	14.067	1.88	20.07	1.09
2.083	1.13	8.083	44.65	14.083	1.88	20.08	1.09
2.100	1.13	8.100	44.65	14.100	1.88	20.10	1.09
2.117	1.13	8.117	44.65	14.117	1.88	20.12	1.09
2.133	1.13	8.133	44.65	14.133	1.88	20.13	1.09
2.150	1.13	8.150	44.65	14.150	1.88	20.15	1.09
2.167	1.13	8.167	44.59	14.167	1.88	20.17	1.09
2.183	1.16	8.183	23.56	14.183	1.84	20.18	1.08
2.200	1.16	8.200	23.56	14.200	1.84	20.20	1.08
2.217	1.16	8.217	23.56	14.217	1.84	20.22	1.08
2.233	1.16	8.233	23.56	14.233	1.84	20.23	1.08
2.250	1.16	8.250	23.56	14.250	1.84	20.25	1.08
2.267	1.16	8.267	23.56	14.267	1.84	20.27	1.08
2.283	1.16	8.283	23.56	14.283	1.84	20.28	1.08
2.300	1.16	8.300	23.56	14.300	1.84	20.30	1.08
2.317	1.16	8.317	23.56	14.317	1.84	20.32	1.08

2.333	1.16	8.333	23.54	14.333	1.84	20.33	1.08
2.350	1.19	8.350	16.20	14.350	1.80	20.35	1.07
2.367	1.19	8.367	16.20	14.367	1.80	20.37	1.07
2.383	1.19	8.383	16.20	14.383	1.80	20.38	1.07
2.400	1.19	8.400	16.20	14.400	1.80	20.40	1.07
2.417	1.19	8.417	16.20	14.417	1.80	20.42	1.07
2.433	1.19	8.433	16.20	14.433	1.80	20.43	1.07
2.450	1.19	8.450	16.20	14.450	1.80	20.45	1.07
2.467	1.19	8.467	16.20	14.467	1.80	20.47	1.07
2.483	1.19	8.483	16.20	14.483	1.80	20.48	1.07
2.500	1.19	8.500	16.19	14.500	1.80	20.50	1.07
2.517	1.22	8.517	12.46	14.517	1.76	20.52	1.05
2.533	1.22	8.533	12.46	14.533	1.76	20.53	1.05
2.550	1.22	8.550	12.46	14.550	1.76	20.55	1.05
2.567	1.22	8.567	12.46	14.567	1.76	20.57	1.05
2.583	1.22	8.583	12.46	14.583	1.76	20.58	1.05
2.600	1.22	8.600	12.46	14.600	1.76	20.60	1.05
2.617	1.22	8.617	12.46	14.617	1.76	20.62	1.05
2.633	1.22	8.633	12.46	14.633	1.76	20.63	1.05
2.650	1.22	8.650	12.46	14.650	1.76	20.65	1.05
2.667	1.22	8.667	12.45	14.667	1.76	20.67	1.05
2.683	1.25	8.683	10.19	14.683	1.73	20.68	1.04
2.700	1.25	8.700	10.19	14.700	1.73	20.70	1.04
2.717	1.25	8.717	10.19	14.717	1.73	20.72	1.04
2.733	1.25	8.733	10.19	14.733	1.73	20.73	1.04
2.750	1.25	8.750	10.19	14.750	1.73	20.75	1.04
2.767	1.25	8.767	10.19	14.767	1.73	20.77	1.04
2.783	1.25	8.783	10.19	14.783	1.73	20.78	1.04
2.800	1.25	8.800	10.19	14.800	1.73	20.80	1.04
2.817	1.25	8.817	10.19	14.817	1.73	20.82	1.04
2.833	1.25	8.833	10.19	14.833	1.73	20.83	1.04
2.850	1.28	8.850	8.67	14.850	1.70	20.85	1.03
2.867	1.28	8.867	8.67	14.867	1.70	20.87	1.03
2.883	1.28	8.883	8.67	14.883	1.70	20.88	1.03
2.900	1.28	8.900	8.67	14.900	1.70	20.90	1.03
2.917	1.28	8.917	8.67	14.917	1.70	20.92	1.03
2.933	1.28	8.933	8.67	14.933	1.70	20.93	1.03
2.950	1.28	8.950	8.67	14.950	1.70	20.95	1.03
2.967	1.28	8.967	8.67	14.967	1.70	20.97	1.03
2.983	1.28	8.983	8.67	14.983	1.70	20.98	1.03
3.000	1.28	9.000	8.67	15.000	1.70	21.00	1.03
3.017	1.32	9.017	7.57	15.017	1.66	21.02	1.02
3.033	1.32	9.033	7.57	15.033	1.66	21.03	1.02
3.050	1.32	9.050	7.57	15.050	1.66	21.05	1.02
3.067	1.32	9.067	7.57	15.067	1.66	21.07	1.02
3.083	1.32	9.083	7.57	15.083	1.66	21.08	1.02
3.100	1.32	9.100	7.57	15.100	1.66	21.10	1.02
3.117	1.32	9.117	7.57	15.117	1.66	21.12	1.02
3.133	1.32	9.133	7.57	15.133	1.66	21.13	1.02
3.150	1.32	9.150	7.57	15.150	1.66	21.15	1.02
3.167	1.32	9.167	7.57	15.167	1.66	21.17	1.02
3.183	1.35	9.183	6.74	15.183	1.63	21.18	1.01
3.200	1.35	9.200	6.74	15.200	1.63	21.20	1.01
3.217	1.35	9.217	6.74	15.217	1.63	21.22	1.01
3.233	1.35	9.233	6.74	15.233	1.63	21.23	1.01
3.250	1.35	9.250	6.74	15.250	1.63	21.25	1.01
3.267	1.35	9.267	6.74	15.267	1.63	21.27	1.01
3.283	1.35	9.283	6.74	15.283	1.63	21.28	1.01
3.300	1.35	9.300	6.74	15.300	1.63	21.30	1.01
3.317	1.35	9.317	6.74	15.317	1.63	21.32	1.01
3.333	1.35	9.333	6.74	15.333	1.63	21.33	1.01
3.350	1.39	9.350	6.09	15.350	1.60	21.35	1.00
3.367	1.39	9.367	6.09	15.367	1.60	21.37	1.00
3.383	1.39	9.383	6.09	15.383	1.60	21.38	1.00
3.400	1.39	9.400	6.09	15.400	1.60	21.40	1.00
3.417	1.39	9.417	6.09	15.417	1.60	21.42	1.00
3.433	1.39	9.433	6.09	15.433	1.60	21.43	1.00
3.450	1.39	9.450	6.09	15.450	1.60	21.45	1.00
3.467	1.39	9.467	6.09	15.467	1.60	21.47	1.00
3.483	1.39	9.483	6.09	15.483	1.60	21.48	1.00
3.500	1.39	9.500	6.09	15.500	1.60	21.50	1.00
3.517	1.44	9.517	5.56	15.517	1.58	21.52	0.99
3.533	1.44	9.533	5.56	15.533	1.58	21.53	0.99
3.550	1.44	9.550	5.56	15.550	1.58	21.55	0.99
3.567	1.44	9.567	5.56	15.567	1.58	21.57	0.99
3.583	1.44	9.583	5.56	15.583	1.58	21.58	0.99
3.600	1.44	9.600	5.56	15.600	1.58	21.60	0.99
3.617	1.44	9.617	5.56	15.617	1.58	21.62	0.99
3.633	1.44	9.633	5.56	15.633	1.58	21.63	0.99
3.650	1.44	9.650	5.56	15.650	1.58	21.65	0.99
3.667	1.44	9.667	5.56	15.667	1.58	21.67	0.99
3.683	1.48	9.683	5.13	15.683	1.55	21.68	0.98
3.700	1.48	9.700	5.13	15.700	1.55	21.70	0.98
3.717	1.48	9.717	5.13	15.717	1.55	21.72	0.98
3.733	1.48	9.733	5.13	15.733	1.55	21.73	0.98
3.750	1.48	9.750	5.13	15.750	1.55	21.75	0.98
3.767	1.48	9.767	5.13	15.767	1.55	21.77	0.98
3.783	1.48	9.783	5.13	15.783	1.55	21.78	0.98
3.800	1.48	9.800	5.13	15.800	1.55	21.80	0.98
3.817	1.48	9.817	5.13	15.817	1.55	21.82	0.98
3.833	1.48	9.833	5.13	15.833	1.55	21.83	0.98
3.850	1.53	9.850	4.76	15.850	1.52	21.85	0.97
3.867	1.53	9.867	4.76	15.867	1.52	21.87	0.97
3.883	1.53	9.883	4.76	15.883	1.52	21.88	0.97
3.900	1.53	9.900	4.76	15.900	1.52	21.90	0.97
3.917	1.53	9.917	4.76	15.917	1.52	21.92	0.97
3.933	1.53	9.933	4.76	15.933	1.52	21.93	0.97
3.950	1.53	9.950	4.76	15.950	1.52	21.95	0.97
3.967	1.53	9.967	4.76	15.967	1.52	21.97	0.97
3.983	1.53	9.983	4.76	15.983	1.52	21.98	0.97
4.000	1.53	10.000	4.76	16.000	1.52	22.00	0.97
4.017	1.59	10.017	4.45	16.017	1.50	22.02	0.96
4.033	1.59	10.033	4.45	16.033	1.50	22.03	0.96
4.050	1.59	10.050	4.45	16.050	1.50	22.05	0.96
4.067	1.59	10.067	4.45	16.067	1.50	22.07	0.96
4.083	1.59	10.083	4.45	16.083	1.50	22.08	0.96
4.100	1.59	10.100	4.45	16.100	1.50	22.10	0.96
4.117	1.59	10.117	4.45	16.117	1.50	22.12	0.96
4.133	1.59	10.133	4.45	16.133	1.50	22.13	0.96
4.150	1.59	10.150	4.45	16.150	1.50	22.15	0.96
4.167	1.59	10.167	4.45	16.167	1.50	22.17	0.96
4.183	1.65	10.183	4.18	16.183	1.47	22.18	0.96
4.200	1.65	10.200	4.18	16.200	1.47	22.20	0.96
4.217	1.65	10.217	4.18	16.217	1.47	22.22	0.96
4.233	1.65	10.233	4.18	16.233	1.47	22.23	0.96
4.250	1.65	10.250	4.18	16.250	1.47	22.25	0.96
4.267	1.65	10.267	4.18	16.267	1.47	22.27	0.96
4.283	1.65	10.283	4.18	16.283	1.47	22.28	0.96
4.300	1.65	10.300	4.18	16.300	1.47	22.30	0.96
4.317	1.65	10.317	4.18	16.317	1.47	22.32	0.96
4.333	1.65	10.333	4.18	16.333	1.47	22.33	0.96
4.350	1.71	10.350	3.95	16.350	1.45	22.35	0.95
4.367	1.71	10.367	3.95	16.367	1.45	22.37	0.95
4.383	1.71	10.383	3.95	16.383	1.45	22.38	0.95
4.400	1.71	10.400	3.95	16.400	1.45	22.40	0.95
4.417	1.71	10.417	3.95	16.417	1.45	22.42	0.95
4.433	1.71	10.433	3.95	16.433	1.45	22.43	0.95
4.450	1.71	10.450	3.95	16.450	1.45	22.45	0.95
4.467	1.71	10.467	3.95	16.467	1.45	22.47	0.95
4.483	1.71	10.483	3.95	16.483	1.45	22.48	0.95
4.500	1.71	10.500	3.95	16.500	1.45	22.50	0.95
4.517	1.78	10.517	3.74	16.517	1.43	22.52	0.94
4.533	1.78	10.533	3.74	16.533	1.43	22.53	0.94
4.550	1.78	10.550	3.74	16.550	1.43	22.55	0.94
4.567	1.78	10.567	3.74	16.567	1.43	22.57	0.94
4.583	1.78	10.583	3.74	16.583	1.43	22.58	0.94
4.600	1.78	10.600	3.74	16.600	1.43	22.60	0.94
4.617	1.78	10.617	3.74	16.617	1.43	22.62	0.94
4.633	1.78	10.633	3.74	16.633	1.43	22.63	0.94
4.650	1.78	10.650	3.74	16.650	1.43	22.65	0.94
4.667	1.78	10.667	3.74	16.667	1.43	22.67	0.94
4.683	1.86	10.683	3.55	16.683	1.41	22.68	0.93
4.700	1.86	10.700	3.55	16.700	1.41	22.70	0.93
4.717	1.86	10.717	3.55	16.717	1.41	22.72	0.93
4.733	1.86	10.733	3.55	16.733	1.41	22.73	0.93
4.750	1.86	10.750	3.55	16.750	1.41	22.75	0.93
4.767	1.86	10.767	3.55	16.767	1.41	22.77	0.93
4.783	1.86	10.783	3.55	16.783	1.41	22.78	0.93
4.800	1.86	10.800	3.55	16.800	1.41	22.80	0.93
4.817	1.86	10.817	3.55	16.817	1.41	22.82	0.93
4.833	1.86	10.833	3.55	16.833	1.41	22.83	0.93
4.850	1.94	10.850	3.39	16.850	1.39	22.85	0.92
4.867	1.94	10.867	3.39	16.867	1.39	22.87	0.92
4.883	1.94	10.883	3.39	16.883	1.39	22.88	0.92
4.900	1.94	10.900	3.39	16.900	1.39	22.90	0.92
4.917	1.94	10.917	3.39	16.917	1.39	22.92	0.92
4.933	1.94	10.933	3.39	16.933	1.39	22.93	0.92
4.950	1.94	10.950	3.39	16.950	1.39	22.95	0.92
4.967	1.94	10.967	3.39	16.967	1.39	22.97	0.92
4.983	1.94	10.983	3.39	16.983	1.39	22.98	0.92
5.000	1.94	11.000	3.39	17.000	1.39	23.00	0.92
5.017	2.03	11.017	3.24	17.017	1.37	23.02	0.91
5.033	2.03	11.033	3.24	17.033	1.37	23.03	0.91
5.050	2.03	11.050	3.24	17.050	1.37	23.05	0.91
5.067	2.03	11.067	3.24	17.067	1.37	23.07	0.91
5.083	2.03	11.083	3.24	17.083	1.37	23.08	0.91
5.100	2.03	11.100	3.24	17.100	1.37	23.10	0.91
5.117	2.03	11.117	3.24	17.117	1.37	23.12	0.91
5.133	2.03	11.133	3.24	17.133	1.37	23.13	0.91
5.150	2.03	11.150	3.24	17.150	1.37	23.15	0.91
5.167	2.03	11.167	3.24	17.167	1.37	23.17	0.91
5.183	2.14	11.183	3.11	17.183	1.35	23.18	0.91
5.200	2.14	11.200	3.11	17.200	1.35	23.20	0.91
5.217	2.14	11.217	3.11	17.217	1.35	23.22	0.91
5.233	2.14	11.233	3.11	17.233	1.35	23.23	0.91
5.250	2.14	11.250	3.11	17.250	1.35	23.25	0.91
5.267	2.14	11.267	3.11	17.267	1.35	23.27	0.91
5.283	2.14	11.283	3.11	17.283	1.35	23.28	0.91
5.300	2.14	11.300	3.11	17.300	1.35	23.30	0.91
5.317	2.14	11.317	3.11	17.317	1.35	23.32	0.91
5.333	2.14	11.333	3.11	17.333	1.35	23.33	0.91
5.350	2.26	11.350	2.98	17.350	1.33	23.35	0.90
5.367	2.26	11.367	2.98	17.367	1.33	23.37	0.90
5.383	2.26	11.383	2.98	17.383	1.33	23.38	0.90
5.400	2.26	11.400	2.98	17.400	1.33	23.40	0.90
5.417	2.26	11.417	2.98	17.417	1.33	23.42	0.90
5.433	2.26	11.433	2.98	17.433	1.33	23.43	0.90
5.450	2.26	11.450	2.98	17.450	1.33	23.45	0.90
5.467	2.26	11.467	2.98	17.467	1.33	23.47	0.90
5.483	2.26	11.483	2.98	17.483	1.33	23.48	0.90
5.500	2.26	11.500	2.98	17.500	1.33	23.50	0.90
5.517	2.39	11.517	2.87	17.517	1.31	23.52	0.89
5.533	2.39	11.533	2.87	17.533	1.31	23.53	0.89
5.550	2.39	11.550	2.87	17.550	1.31	23.55	0.89
5.567	2.39	11.567	2.87	17.567	1.31	23.57	0.89
5.583	2.39	11.583	2.87	17.583	1.31	23.58	0.89
5.600	2.39	11.600	2.87	17.600	1.31	23.60	0.89
5.617	2.39	11.617	2.87	17.617	1.31	23.62	0.89
5.633	2.39	11.633	2.87	17.633	1.31	23.63	0.89
5.650	2.39	11.650	2.87	17.650	1.31	23.65	0.89

5.667	2.39	11.667	2.87	17.667	1.31	23.67	0.89
5.683	2.54	11.683	2.77	17.683	1.29	23.68	0.88
5.700	2.54	11.700	2.77	17.700	1.29	23.70	0.88
5.717	2.54	11.717	2.77	17.717	1.29	23.72	0.88
5.733	2.54	11.733	2.77	17.733	1.29	23.73	0.88
5.750	2.54	11.750	2.77	17.750	1.29	23.75	0.88
5.767	2.54	11.767	2.77	17.767	1.29	23.77	0.88
5.783	2.54	11.783	2.77	17.783	1.29	23.78	0.88
5.800	2.54	11.800	2.77	17.800	1.29	23.80	0.88
5.817	2.54	11.817	2.77	17.817	1.29	23.82	0.88
5.833	2.54	11.833	2.77	17.833	1.29	23.83	0.88
5.850	2.72	11.850	2.67	17.850	1.27	23.85	0.88
5.867	2.72	11.867	2.67	17.867	1.27	23.87	0.88
5.883	2.72	11.883	2.67	17.883	1.27	23.88	0.88
5.900	2.72	11.900	2.67	17.900	1.27	23.90	0.88
5.917	2.72	11.917	2.67	17.917	1.27	23.92	0.88
5.933	2.72	11.933	2.67	17.933	1.27	23.93	0.88
5.950	2.72	11.950	2.67	17.950	1.27	23.95	0.88
5.967	2.72	11.967	2.67	17.967	1.27	23.97	0.88
5.983	2.72	11.983	2.67	17.983	1.27	23.98	0.88
6.000	2.72	12.000	2.67	18.000	1.27	24.00	0.88

Max.Eff.Inten.(mm/hr)=	143.01	128.55	
over (min)	5.00	11.00	
Storage Coeff. (min)=	4.47 (ii)	10.68 (ii)	
Unit Hyd. Tpeak (min)=	5.00	11.00	
Unit Hyd. peak (cms)=	0.24	0.10	
			TOTALS
PEAK FLOW (cms)=	2.62	1.68	3.997 (iii)
TIME TO PEAK (hrs)=	8.02	8.12	8.03
RUNOFF VOLUME (mm)=	96.00	83.10	89.43
TOTAL RAINFALL (mm)=	97.01	97.01	97.01
RUNOFF COEFFICIENT =	0.99	0.86	0.92

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 94.0 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.

FINISH

==========

==========

```
      V    V   I    SSSSS  U   U    A    L             (v 6.2.2019)
      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

       OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
      O   O    T      T    H   H   Y Y   MM MM  O   O
      O   O    T      T    H   H    Y    M   M  O   O
       OOO     T      T    H   H    Y    M   M   OOO
```

Developed and Distributed by Smart City Water Inc

***** 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\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\65510837-336f-46a4-ace2-ff43b7a2b95e\scenari
Summary filename:
C:\Users\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\65510837-336f-46a4-ace2-ff43b7a2b95e\scenari

DATE: 01-27-2026 TIME: 02:07:39

USER:

COMMENTS: _____

****
** SIMULATION : 6 - 50-Year 24hr Chic - Milto **
****

CHICAGO STORM
Ptotal=110.01 mm

IDF curve parameters: A=1323.000
B= 5.300
C= 0.779
used in: INTENSITY = A / (t + B)^C

Duration of storm = 24.00 hrs

Storm time step = 10.00 min
Time to peak ratio = 0.33

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.00	1.05	6.00	3.38	12.00	3.00	18.00	1.47
0.17	1.07	6.17	3.66	12.17	2.90	18.17	1.45
0.33	1.08	6.33	4.00	12.33	2.82	18.33	1.43
0.50	1.10	6.50	4.42	12.50	2.73	18.50	1.41
0.67	1.12	6.67	4.96	12.67	2.66	18.67	1.40
0.83	1.14	6.83	5.67	12.83	2.59	18.83	1.38
1.00	1.17	7.00	6.66	13.00	2.52	19.00	1.36
1.17	1.19	7.17	8.15	13.17	2.46	19.17	1.35
1.33	1.21	7.33	10.70	13.33	2.40	19.33	1.33
1.50	1.24	7.50	16.13	13.50	2.34	19.50	1.32
1.67	1.27	7.67	37.84	13.67	2.29	19.67	1.30
1.83	1.29	7.83	158.18	13.83	2.23	19.83	1.29
2.00	1.32	8.00	49.42	14.00	2.19	20.00	1.27
2.17	1.35	8.17	26.31	14.17	2.14	20.17	1.26
2.33	1.39	8.33	18.21	14.33	2.10	20.33	1.25
2.50	1.42	8.50	14.08	14.50	2.05	20.50	1.23
2.67	1.46	8.67	11.56	14.67	2.01	20.67	1.22
2.83	1.50	8.83	9.86	14.83	1.98	20.83	1.21
3.00	1.54	9.00	8.63	15.00	1.94	21.00	1.20
3.17	1.58	9.17	7.70	15.17	1.90	21.17	1.19
3.33	1.63	9.33	6.96	15.33	1.87	21.33	1.17
3.50	1.68	9.50	6.37	15.50	1.84	21.50	1.16
3.67	1.73	9.67	5.88	15.67	1.81	21.67	1.15
3.83	1.79	9.83	5.47	15.83	1.78	21.83	1.14
4.00	1.85	10.00	5.12	16.00	1.75	22.00	1.13
4.17	1.92	10.17	4.81	16.17	1.72	22.17	1.12
4.33	1.99	10.33	4.55	16.33	1.69	22.33	1.11
4.50	2.07	10.50	4.31	16.50	1.67	22.50	1.10
4.67	2.16	10.67	4.10	16.67	1.64	22.67	1.09
4.83	2.26	10.83	3.91	16.83	1.62	22.83	1.08
5.00	2.36	11.00	3.74	17.00	1.59	23.00	1.07
5.17	2.48	11.17	3.59	17.17	1.57	23.17	1.06
5.33	2.62	11.33	3.45	17.33	1.55	23.33	1.05
5.50	2.77	11.50	3.32	17.50	1.53	23.50	1.04
5.67	2.95	11.67	3.20	17.67	1.51	23.67	1.04
5.83	3.15	11.83	3.10	17.83	1.49	23.83	1.03

CALIB	
STANDHYD (0001)	Area (ha)= 15.57
ID= 1 DT= 1.0 min	Total Imp(%)= 49.00 Dir. Conn.(%)= 49.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	7.63	7.94
Dep. Storage (mm)=	1.00	5.00
Average Slope (%)=	1.00	2.00
Length (m)=	322.18	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 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
0.017	1.05	6.017	3.38	12.017	3.00	18.02	1.47
0.033	1.05	6.033	3.38	12.033	3.00	18.03	1.47
0.050	1.05	6.050	3.38	12.050	3.00	18.05	1.47
0.067	1.05	6.067	3.38	12.067	3.00	18.07	1.47
0.083	1.05	6.083	3.38	12.083	3.00	18.08	1.47
0.100	1.05	6.100	3.38	12.100	3.00	18.10	1.47
0.117	1.05	6.117	3.38	12.117	3.00	18.12	1.47
0.133	1.05	6.133	3.38	12.133	3.00	18.13	1.47
0.150	1.05	6.150	3.38	12.150	3.00	18.15	1.47
0.167	1.05	6.167	3.38	12.167	3.00	18.17	1.47
0.183	1.07	6.183	3.66	12.183	2.90	18.18	1.45
0.200	1.07	6.200	3.66	12.200	2.90	18.20	1.45
0.217	1.07	6.217	3.66	12.217	2.90	18.22	1.45
0.233	1.07	6.233	3.66	12.233	2.90	18.23	1.45
0.250	1.07	6.250	3.66	12.250	2.90	18.25	1.45
0.267	1.07	6.267	3.66	12.267	2.90	18.27	1.45
0.283	1.07	6.283	3.66	12.283	2.90	18.28	1.45
0.300	1.07	6.300	3.66	12.300	2.90	18.30	1.45
0.317	1.07	6.317	3.66	12.317	2.90	18.32	1.45
0.333	1.07	6.333	3.66	12.333	2.90	18.33	1.45
0.350	1.08	6.350	4.00	12.350	2.82	18.35	1.43
0.367	1.08	6.367	4.00	12.367	2.82	18.37	1.43
0.383	1.08	6.383	4.00	12.383	2.82	18.38	1.43
0.400	1.08	6.400	4.00	12.400	2.82	18.40	1.43
0.417	1.08	6.417	4.00	12.417	2.82	18.42	1.43
0.433	1.08	6.433	4.00	12.433	2.82	18.43	1.43
0.450	1.08	6.450	4.00	12.450	2.82	18.45	1.43
0.467	1.08	6.467	4.00	12.467	2.82	18.47	1.43
0.483	1.08	6.483	4.00	12.483	2.82	18.48	1.43
0.500	1.08	6.500	4.00	12.500	2.82	18.50	1.43
0.517	1.10	6.517	4.42	12.517	2.73	18.52	1.41
0.533	1.10	6.533	4.42	12.533	2.73	18.53	1.41
0.550	1.10	6.550	4.42	12.550	2.73	18.55	1.41
0.567	1.10	6.567	4.42	12.567	2.73	18.57	1.41
0.583	1.10	6.583	4.42	12.583	2.73	18.58	1.41
0.600	1.10	6.600	4.42	12.600	2.73	18.60	1.41
0.617	1.10	6.617	4.42	12.617	2.73	18.62	1.41
0.633	1.10	6.633	4.42	12.633	2.73	18.63	1.41

0.650	1.10	6.650	4.42	12.650	2.73	18.65	1.41
0.667	1.10	6.667	4.42	12.667	2.73	18.67	1.41
0.683	1.12	6.683	4.96	12.683	2.66	18.68	1.40
0.700	1.12	6.700	4.96	12.700	2.66	18.70	1.40
0.717	1.12	6.717	4.96	12.717	2.66	18.72	1.40
0.733	1.12	6.733	4.96	12.733	2.66	18.73	1.40
0.750	1.12	6.750	4.96	12.750	2.66	18.75	1.40
0.767	1.12	6.767	4.96	12.767	2.66	18.77	1.40
0.783	1.12	6.783	4.96	12.783	2.66	18.78	1.40
0.800	1.12	6.800	4.96	12.800	2.66	18.80	1.40
0.817	1.12	6.817	4.96	12.817	2.66	18.82	1.40
0.833	1.12	6.833	4.96	12.833	2.66	18.83	1.40
0.850	1.14	6.850	5.67	12.850	2.59	18.85	1.38
0.867	1.14	6.867	5.67	12.867	2.59	18.87	1.38
0.883	1.14	6.883	5.67	12.883	2.59	18.88	1.38
0.900	1.14	6.900	5.67	12.900	2.59	18.90	1.38
0.917	1.14	6.917	5.67	12.917	2.59	18.92	1.38
0.933	1.14	6.933	5.67	12.933	2.59	18.93	1.38
0.950	1.14	6.950	5.67	12.950	2.59	18.95	1.38
0.967	1.14	6.967	5.67	12.967	2.59	18.97	1.38
0.983	1.14	6.983	5.67	12.983	2.59	18.98	1.38
1.000	1.14	7.000	5.67	13.000	2.59	19.00	1.38
1.017	1.17	7.017	6.66	13.017	2.52	19.02	1.36
1.033	1.17	7.033	6.66	13.033	2.52	19.03	1.36
1.050	1.17	7.050	6.66	13.050	2.52	19.05	1.36
1.067	1.17	7.067	6.66	13.067	2.52	19.07	1.36
1.083	1.17	7.083	6.66	13.083	2.52	19.08	1.36
1.100	1.17	7.100	6.66	13.100	2.52	19.10	1.36
1.117	1.17	7.117	6.66	13.117	2.52	19.12	1.36
1.133	1.17	7.133	6.66	13.133	2.52	19.13	1.36
1.150	1.17	7.150	6.66	13.150	2.52	19.15	1.36
1.167	1.17	7.167	6.66	13.167	2.52	19.17	1.36
1.183	1.19	7.183	8.15	13.183	2.46	19.18	1.35
1.200	1.19	7.200	8.15	13.200	2.46	19.20	1.35
1.217	1.19	7.217	8.15	13.217	2.46	19.22	1.35
1.233	1.19	7.233	8.15	13.233	2.46	19.23	1.35
1.250	1.19	7.250	8.15	13.250	2.46	19.25	1.35
1.267	1.19	7.267	8.15	13.267	2.46	19.27	1.35
1.283	1.19	7.283	8.15	13.283	2.46	19.28	1.35
1.300	1.19	7.300	8.15	13.300	2.46	19.30	1.35
1.317	1.19	7.317	8.15	13.317	2.46	19.32	1.35
1.333	1.19	7.333	8.16	13.333	2.46	19.33	1.35
1.350	1.21	7.350	10.70	13.350	2.40	19.35	1.33
1.367	1.21	7.367	10.70	13.367	2.40	19.37	1.33
1.383	1.21	7.383	10.70	13.383	2.40	19.38	1.33
1.400	1.21	7.400	10.70	13.400	2.40	19.40	1.33
1.417	1.21	7.417	10.70	13.417	2.40	19.42	1.33
1.433	1.21	7.433	10.70	13.433	2.40	19.43	1.33
1.450	1.21	7.450	10.70	13.450	2.40	19.45	1.33
1.467	1.21	7.467	10.70	13.467	2.40	19.47	1.33
1.483	1.21	7.483	10.70	13.483	2.40	19.48	1.33
1.500	1.21	7.500	10.71	13.500	2.40	19.50	1.33
1.517	1.24	7.517	16.13	13.517	2.34	19.52	1.32
1.533	1.24	7.533	16.13	13.533	2.34	19.53	1.32
1.550	1.24	7.550	16.13	13.550	2.34	19.55	1.32
1.567	1.24	7.567	16.13	13.567	2.34	19.57	1.32
1.583	1.24	7.583	16.13	13.583	2.34	19.58	1.32
1.600	1.24	7.600	16.13	13.600	2.34	19.60	1.32
1.617	1.24	7.617	16.13	13.617	2.34	19.62	1.32
1.633	1.24	7.633	16.13	13.633	2.34	19.63	1.32
1.650	1.24	7.650	16.13	13.650	2.34	19.65	1.32
1.667	1.24	7.667	16.19	13.667	2.34	19.67	1.32
1.683	1.27	7.683	37.84	13.683	2.29	19.68	1.30
1.700	1.27	7.700	37.84	13.700	2.29	19.70	1.30
1.717	1.27	7.717	37.84	13.717	2.29	19.72	1.30
1.733	1.27	7.733	37.84	13.733	2.29	19.73	1.30
1.750	1.27	7.750	37.84	13.750	2.29	19.75	1.30
1.767	1.27	7.767	37.84	13.767	2.29	19.77	1.30
1.783	1.27	7.783	37.84	13.783	2.29	19.78	1.30
1.800	1.27	7.800	37.84	13.800	2.29	19.80	1.30
1.817	1.27	7.817	37.84	13.817	2.29	19.82	1.30
1.833	1.27	7.833	38.19	13.833	2.29	19.83	1.30
1.850	1.29	7.850	158.18	13.850	2.23	19.85	1.29
1.867	1.29	7.867	158.18	13.867	2.23	19.87	1.29
1.883	1.29	7.883	158.18	13.883	2.23	19.88	1.29
1.900	1.29	7.900	158.18	13.900	2.23	19.90	1.29
1.917	1.29	7.917	158.18	13.917	2.23	19.92	1.29
1.933	1.29	7.933	158.18	13.933	2.23	19.93	1.29
1.950	1.29	7.950	158.18	13.950	2.23	19.95	1.29
1.967	1.29	7.967	158.18	13.967	2.23	19.97	1.29
1.983	1.29	7.983	158.18	13.983	2.23	19.98	1.29
2.000	1.29	8.000	157.86	14.000	2.23	20.00	1.29
2.017	1.32	8.017	49.42	14.017	2.19	20.02	1.27
2.033	1.32	8.033	49.42	14.033	2.19	20.03	1.27
2.050	1.32	8.050	49.42	14.050	2.19	20.05	1.27
2.067	1.32	8.067	49.42	14.067	2.19	20.07	1.27
2.083	1.32	8.083	49.42	14.083	2.19	20.08	1.27
2.100	1.32	8.100	49.42	14.100	2.19	20.10	1.27
2.117	1.32	8.117	49.42	14.117	2.19	20.12	1.27
2.133	1.32	8.133	49.42	14.133	2.19	20.13	1.27
2.150	1.32	8.150	49.42	14.150	2.19	20.15	1.27
2.167	1.32	8.167	49.35	14.167	2.19	20.17	1.27
2.183	1.35	8.183	26.31	14.183	2.14	20.18	1.26
2.200	1.35	8.200	26.31	14.200	2.14	20.20	1.26
2.217	1.35	8.217	26.31	14.217	2.14	20.22	1.26
2.233	1.35	8.233	26.31	14.233	2.14	20.23	1.26
2.250	1.35	8.250	26.31	14.250	2.14	20.25	1.26
2.267	1.35	8.267	26.31	14.267	2.14	20.27	1.26
2.283	1.35	8.283	26.31	14.283	2.14	20.28	1.26
2.300	1.35	8.300	26.31	14.300	2.14	20.30	1.26
2.317	1.35	8.317	26.31	14.317	2.14	20.32	1.26
2.333	1.35	8.333	26.29	14.333	2.14	20.33	1.26
2.350	1.39	8.350	18.21	14.350	2.10	20.35	1.25
2.367	1.39	8.367	18.21	14.367	2.10	20.37	1.25
2.383	1.39	8.383	18.21	14.383	2.10	20.38	1.25
2.400	1.39	8.400	18.21	14.400	2.10	20.40	1.25
2.417	1.39	8.417	18.21	14.417	2.10	20.42	1.25
2.433	1.39	8.433	18.21	14.433	2.10	20.43	1.25
2.450	1.39	8.450	18.21	14.450	2.10	20.45	1.25
2.467	1.39	8.467	18.21	14.467	2.10	20.47	1.25
2.483	1.39	8.483	18.21	14.483	2.10	20.48	1.25
2.500	1.39	8.500	18.20	14.500	2.10	20.50	1.25
2.517	1.42	8.517	14.08	14.517	2.05	20.52	1.23
2.533	1.42	8.533	14.08	14.533	2.05	20.53	1.23
2.550	1.42	8.550	14.08	14.550	2.05	20.55	1.23
2.567	1.42	8.567	14.08	14.567	2.05	20.57	1.23
2.583	1.42	8.583	14.08	14.583	2.05	20.58	1.23
2.600	1.42	8.600	14.08	14.600	2.05	20.60	1.23
2.617	1.42	8.617	14.08	14.617	2.05	20.62	1.23
2.633	1.42	8.633	14.08	14.633	2.05	20.63	1.23
2.650	1.42	8.650	14.08	14.650	2.05	20.65	1.23
2.667	1.42	8.667	14.07	14.667	2.05	20.67	1.23
2.683	1.46	8.683	11.56	14.683	2.01	20.68	1.22
2.700	1.46	8.700	11.56	14.700	2.01	20.70	1.22
2.717	1.46	8.717	11.56	14.717	2.01	20.72	1.22
2.733	1.46	8.733	11.56	14.733	2.01	20.73	1.22
2.750	1.46	8.750	11.56	14.750	2.01	20.75	1.22
2.767	1.46	8.767	11.56	14.767	2.01	20.77	1.22
2.783	1.46	8.783	11.56	14.783	2.01	20.78	1.22
2.800	1.46	8.800	11.56	14.800	2.01	20.80	1.22
2.817	1.46	8.817	11.56	14.817	2.01	20.82	1.22
2.833	1.46	8.833	11.56	14.833	2.01	20.83	1.22
2.850	1.50	8.850	9.86	14.850	1.98	20.85	1.21
2.867	1.50	8.867	9.86	14.867	1.98	20.87	1.21
2.883	1.50	8.883	9.86	14.883	1.98	20.88	1.21
2.900	1.50	8.900	9.86	14.900	1.98	20.90	1.21
2.917	1.50	8.917	9.86	14.917	1.98	20.92	1.21
2.933	1.50	8.933	9.86	14.933	1.98	20.93	1.21
2.950	1.50	8.950	9.86	14.950	1.98	20.95	1.21
2.967	1.50	8.967	9.86	14.967	1.98	20.97	1.21
2.983	1.50	8.983	9.86	14.983	1.98	20.98	1.21
3.000	1.50	9.000	9.86	15.000	1.98	21.00	1.21
3.017	1.54	9.017	8.63	15.017	1.94	21.02	1.20
3.033	1.54	9.033	8.63	15.033	1.94	21.03	1.20
3.050	1.54	9.050	8.63	15.050	1.94	21.05	1.20
3.067	1.54	9.067	8.63	15.067	1.94	21.07	1.20
3.083	1.54	9.083	8.63	15.083	1.94	21.08	1.20
3.100	1.54	9.100	8.63	15.100	1.94	21.10	1.20
3.117	1.54	9.117	8.63	15.117	1.94	21.12	1.20
3.133	1.54	9.133	8.63	15.133	1.94	21.13	1.20
3.150	1.54	9.150	8.63	15.150	1.94	21.15	1.20
3.167	1.54	9.167	8.63	15.167	1.94	21.17	1.20
3.183	1.58	9.183	7.70	15.183	1.90	21.18	1.19
3.200	1.58	9.200	7.70	15.200	1.90	21.20	1.19
3.217	1.58	9.217	7.70	15.217	1.90	21.22	1.19
3.233	1.58	9.233	7.70	15.233	1.90	21.23	1.19
3.250	1.58	9.250	7.70	15.250	1.90	21.25	1.19
3.267	1.58	9.267	7.70	15.267	1.90	21.27	1.19
3.283	1.58	9.283	7.70	15.283	1.90	21.28	1.19
3.300	1.58	9.300	7.70	15.300	1.90	21.30	1.19
3.317	1.58	9.317	7.70	15.317	1.90	21.32	1.19
3.333	1.58	9.333	7.70	15.333	1.90	21.33	1.19
3.350	1.63	9.350	6.96	15.350	1.87	21.35	1.17
3.367	1.63	9.367	6.96	15.367	1.87	21.37	1.17
3.383	1.63	9.383	6.96	15.383	1.87	21.38	1.17
3.400	1.63	9.400	6.96	15.400	1.87	21.40	1.17
3.417	1.63	9.417	6.96	15.417	1.87	21.42	1.17
3.433	1.63	9.433	6.96	15.433	1.87	21.43	1.17
3.450	1.63	9.450	6.96	15.450	1.87	21.45	1.17
3.467	1.63	9.467	6.96	15.467	1.87	21.47	1.17
3.483	1.63	9.483	6.96	15.483	1.87	21.48	1.17
3.500	1.63	9.500	6.96	15.500	1.87	21.50	1.17
3.517	1.68	9.517	6.37	15.517	1.84	21.52	1.16
3.533	1.68	9.533	6.37	15.533	1.84	21.53	1.16
3.550	1.68	9.550	6.37	15.550	1.84	21.55	1.16
3.567	1.68	9.567	6.37	15.567	1.84	21.57	1.16
3.583	1.68	9.583	6.37	15.583	1.84	21.58	1.16
3.600	1.68	9.600	6.37	15.600	1.84	21.60	1.16
3.617	1.68	9.617	6.37	15.617	1.84	21.62	1.16
3.633	1.68	9.633	6.37	15.633	1.84	21.63	1.16
3.650	1.68	9.650	6.37	15.650	1.84	21.65	1.16
3.667	1.68	9.667	6.37	15.667	1.84	21.67	1.16
3.683	1.73	9.683	5.88	15.683	1.81	21.68	1.15
3.700	1.73	9.700	5.88	15.700	1.81	21.70	1.15
3.717	1.73	9.717	5.88	15.717	1.81	21.72	1.15
3.733	1.73	9.733	5.88	15.733	1.81	21.73	1.15
3.750	1.73	9.750	5.88	15.750	1.81	21.75	1.15
3.767	1.73	9.767	5.88	15.767	1.81	21.77	1.15
3.783	1.73	9.783	5.88	15.783	1.81	21.78	1.15
3.800	1.73	9.800	5.88	15.800	1.81	21.80	1.15
3.817	1.73	9.817	5.88	15.817	1.81	21.82	1.15
3.833	1.73	9.833	5.88	15.833	1.81	21.83	1.15
3.850	1.79	9.850	5.47	15.850	1.78	21.85	1.14
3.867	1.79	9.867	5.47	15.867	1.78	21.87	1.14
3.883	1.79	9.883	5.47	15.883	1.78	21.88	1.14
3.900	1.79	9.900	5.47	15.900	1.78	21.90	1.14
3.917	1.79	9.917	5.47	15.917	1.78	21.92	1.14
3.933	1.79	9.933	5.47	15.933	1.78	21.93	1.14
3.950	1.79	9.950	5.47	15.950	1.78	21.95	1.14
3.967	1.79	9.967	5.47	15.967	1.78	21.97	1.14

3.983	1.79	9.983	5.47	15.983	1.78	21.98	1.14
4.000	1.79	10.000	5.47	16.000	1.78	22.00	1.14
4.017	1.85	10.017	5.12	16.017	1.75	22.02	1.13
4.033	1.85	10.033	5.12	16.033	1.75	22.03	1.13
4.050	1.85	10.050	5.12	16.050	1.75	22.05	1.13
4.067	1.85	10.067	5.12	16.067	1.75	22.07	1.13
4.083	1.85	10.083	5.12	16.083	1.75	22.08	1.13
4.100	1.85	10.100	5.12	16.100	1.75	22.10	1.13
4.117	1.85	10.117	5.12	16.117	1.75	22.12	1.13
4.133	1.85	10.133	5.12	16.133	1.75	22.13	1.13
4.150	1.85	10.150	5.12	16.150	1.75	22.15	1.13
4.167	1.85	10.167	5.12	16.167	1.75	22.17	1.13
4.183	1.92	10.183	4.81	16.183	1.72	22.18	1.12
4.200	1.92	10.200	4.81	16.200	1.72	22.20	1.12
4.217	1.92	10.217	4.81	16.217	1.72	22.22	1.12
4.233	1.92	10.233	4.81	16.233	1.72	22.23	1.12
4.250	1.92	10.250	4.81	16.250	1.72	22.25	1.12
4.267	1.92	10.267	4.81	16.267	1.72	22.27	1.12
4.283	1.92	10.283	4.81	16.283	1.72	22.28	1.12
4.300	1.92	10.300	4.81	16.300	1.72	22.30	1.12
4.317	1.92	10.317	4.81	16.317	1.72	22.32	1.12
4.333	1.92	10.333	4.81	16.333	1.72	22.33	1.12
4.350	1.99	10.350	4.55	16.350	1.69	22.35	1.11
4.367	1.99	10.367	4.55	16.367	1.69	22.37	1.11
4.383	1.99	10.383	4.55	16.383	1.69	22.38	1.11
4.400	1.99	10.400	4.55	16.400	1.69	22.40	1.11
4.417	1.99	10.417	4.55	16.417	1.69	22.42	1.11
4.433	1.99	10.433	4.55	16.433	1.69	22.43	1.11
4.450	1.99	10.450	4.55	16.450	1.69	22.45	1.11
4.467	1.99	10.467	4.55	16.467	1.69	22.47	1.11
4.483	1.99	10.483	4.55	16.483	1.69	22.48	1.11
4.500	1.99	10.500	4.54	16.500	1.69	22.50	1.11
4.517	2.07	10.517	4.31	16.517	1.67	22.52	1.10
4.533	2.07	10.533	4.31	16.533	1.67	22.53	1.10
4.550	2.07	10.550	4.31	16.550	1.67	22.55	1.10
4.567	2.07	10.567	4.31	16.567	1.67	22.57	1.10
4.583	2.07	10.583	4.31	16.583	1.67	22.58	1.10
4.600	2.07	10.600	4.31	16.600	1.67	22.60	1.10
4.617	2.07	10.617	4.31	16.617	1.67	22.62	1.10
4.633	2.07	10.633	4.31	16.633	1.67	22.63	1.10
4.650	2.07	10.650	4.31	16.650	1.67	22.65	1.10
4.667	2.07	10.667	4.31	16.667	1.67	22.67	1.10
4.683	2.16	10.683	4.10	16.683	1.64	22.68	1.09
4.700	2.16	10.700	4.10	16.700	1.64	22.70	1.09
4.717	2.16	10.717	4.10	16.717	1.64	22.72	1.09
4.733	2.16	10.733	4.10	16.733	1.64	22.73	1.09
4.750	2.16	10.750	4.10	16.750	1.64	22.75	1.09
4.767	2.16	10.767	4.10	16.767	1.64	22.77	1.09
4.783	2.16	10.783	4.10	16.783	1.64	22.78	1.09
4.800	2.16	10.800	4.10	16.800	1.64	22.80	1.09

4.817	2.16	10.817	4.10	16.817	1.64	22.82	1.09
4.833	2.16	10.833	4.10	16.833	1.64	22.83	1.09
4.850	2.26	10.850	3.91	16.850	1.62	22.85	1.08
4.867	2.26	10.867	3.91	16.867	1.62	22.87	1.08
4.883	2.26	10.883	3.91	16.883	1.62	22.88	1.08
4.900	2.26	10.900	3.91	16.900	1.62	22.90	1.08
4.917	2.26	10.917	3.91	16.917	1.62	22.92	1.08
4.933	2.26	10.933	3.91	16.933	1.62	22.93	1.08
4.950	2.26	10.950	3.91	16.950	1.62	22.95	1.08
4.967	2.26	10.967	3.91	16.967	1.62	22.97	1.08
4.983	2.26	10.983	3.91	16.983	1.62	22.98	1.08
5.000	2.26	11.000	3.91	17.000	1.62	23.00	1.08
5.017	2.36	11.017	3.74	17.017	1.59	23.02	1.07
5.033	2.36	11.033	3.74	17.033	1.59	23.03	1.07
5.050	2.36	11.050	3.74	17.050	1.59	23.05	1.07
5.067	2.36	11.067	3.74	17.067	1.59	23.07	1.07
5.083	2.36	11.083	3.74	17.083	1.59	23.08	1.07
5.100	2.36	11.100	3.74	17.100	1.59	23.10	1.07
5.117	2.36	11.117	3.74	17.117	1.59	23.12	1.07
5.133	2.36	11.133	3.74	17.133	1.59	23.13	1.07
5.150	2.36	11.150	3.74	17.150	1.59	23.15	1.07
5.167	2.36	11.167	3.74	17.167	1.59	23.17	1.07
5.183	2.48	11.183	3.59	17.183	1.57	23.18	1.06
5.200	2.48	11.200	3.59	17.200	1.57	23.20	1.06
5.217	2.48	11.217	3.59	17.217	1.57	23.22	1.06
5.233	2.48	11.233	3.59	17.233	1.57	23.23	1.06
5.250	2.48	11.250	3.59	17.250	1.57	23.25	1.06
5.267	2.48	11.267	3.59	17.267	1.57	23.27	1.06
5.283	2.48	11.283	3.59	17.283	1.57	23.28	1.06
5.300	2.48	11.300	3.59	17.300	1.57	23.30	1.06
5.317	2.48	11.317	3.59	17.317	1.57	23.32	1.06
5.333	2.48	11.333	3.59	17.333	1.57	23.33	1.06
5.350	2.62	11.350	3.45	17.350	1.55	23.35	1.05
5.367	2.62	11.367	3.45	17.367	1.55	23.37	1.05
5.383	2.62	11.383	3.45	17.383	1.55	23.38	1.05
5.400	2.62	11.400	3.45	17.400	1.55	23.40	1.05
5.417	2.62	11.417	3.45	17.417	1.55	23.42	1.05
5.433	2.62	11.433	3.45	17.433	1.55	23.43	1.05
5.450	2.62	11.450	3.45	17.450	1.55	23.45	1.05
5.467	2.62	11.467	3.45	17.467	1.55	23.47	1.05
5.483	2.62	11.483	3.45	17.483	1.55	23.48	1.05
5.500	2.62	11.500	3.45	17.500	1.55	23.50	1.05
5.517	2.77	11.517	3.32	17.517	1.53	23.52	1.04
5.533	2.77	11.533	3.32	17.533	1.53	23.53	1.04
5.550	2.77	11.550	3.32	17.550	1.53	23.55	1.04
5.567	2.77	11.567	3.32	17.567	1.53	23.57	1.04
5.583	2.77	11.583	3.32	17.583	1.53	23.58	1.04
5.600	2.77	11.600	3.32	17.600	1.53	23.60	1.04
5.617	2.77	11.617	3.32	17.617	1.53	23.62	1.04
5.633	2.77	11.633	3.32	17.633	1.53	23.63	1.04

5.650	2.77	11.650	3.32	17.650	1.53	23.65	1.04
5.667	2.77	11.667	3.32	17.667	1.53	23.67	1.04
5.683	2.95	11.683	3.20	17.683	1.51	23.68	1.04
5.700	2.95	11.700	3.20	17.700	1.51	23.70	1.04
5.717	2.95	11.717	3.20	17.717	1.51	23.72	1.04
5.733	2.95	11.733	3.20	17.733	1.51	23.73	1.04
5.750	2.95	11.750	3.20	17.750	1.51	23.75	1.04
5.767	2.95	11.767	3.20	17.767	1.51	23.77	1.04
5.783	2.95	11.783	3.20	17.783	1.51	23.78	1.04
5.800	2.95	11.800	3.20	17.800	1.51	23.80	1.04
5.817	2.95	11.817	3.20	17.817	1.51	23.82	1.04
5.833	2.95	11.833	3.20	17.833	1.51	23.83	1.04
5.850	3.15	11.850	3.10	17.850	1.49	23.85	1.03
5.867	3.15	11.867	3.10	17.867	1.49	23.87	1.03
5.883	3.15	11.883	3.10	17.883	1.49	23.88	1.03
5.900	3.15	11.900	3.10	17.900	1.49	23.90	1.03
5.917	3.15	11.917	3.10	17.917	1.49	23.92	1.03
5.933	3.15	11.933	3.10	17.933	1.49	23.93	1.03
5.950	3.15	11.950	3.10	17.950	1.49	23.95	1.03
5.967	3.15	11.967	3.10	17.967	1.49	23.97	1.03
5.983	3.15	11.983	3.10	17.983	1.49	23.98	1.03
6.000	3.15	12.000	3.10	18.000	1.49	24.00	1.03

Max.Eff.Inten.(mm/hr)=	158.18	108.10	
over (min)	5.00	11.00	
Storage Coeff. (min)=	4.29 (ii)	10.26 (ii)	
Unit Hyd. Tpeak (min)=	5.00	11.00	
Unit Hyd. peak (cms)=	0.25	0.11	
			TOTALS
PEAK FLOW (cms)=	2.93	1.44	4.032 (iii)
TIME TO PEAK (hrs)=	8.02	8.13	8.03
RUNOFF VOLUME (mm)=	109.00	73.58	90.95
TOTAL RAINFALL (mm)=	110.01	110.01	110.01
RUNOFF COEFFICIENT =	0.99	0.67	0.83

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 85.0 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	
STANDHYD (0002)	Area (ha)= 15.57
ID= 1 DT= 1.0 min	Total Imp(%)= 49.00 Dir. Conn.(%)= 49.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	7.63	7.94

Dep. Storage (mm)=	1.00	0.00
Average Slope (%)=	1.00	2.00
Length (m)=	322.18	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 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
0.017	1.05	6.017	3.38	12.017	3.00	18.02	1.47
0.033	1.05	6.033	3.38	12.033	3.00	18.03	1.47
0.050	1.05	6.050	3.38	12.050	3.00	18.05	1.47
0.067	1.05	6.067	3.38	12.067	3.00	18.07	1.47
0.083	1.05	6.083	3.38	12.083	3.00	18.08	1.47
0.100	1.05	6.100	3.38	12.100	3.00	18.10	1.47
0.117	1.05	6.117	3.38	12.117	3.00	18.12	1.47
0.133	1.05	6.133	3.38	12.133	3.00	18.13	1.47
0.150	1.05	6.150	3.38	12.150	3.00	18.15	1.47
0.167	1.05	6.167	3.38	12.167	3.00	18.17	1.47
0.183	1.07	6.183	3.66	12.183	2.90	18.18	1.45
0.200	1.07	6.200	3.66	12.200	2.90	18.20	1.45
0.217	1.07	6.217	3.66	12.217	2.90	18.22	1.45
0.233	1.07	6.233	3.66	12.233	2.90	18.23	1.45
0.250	1.07	6.250	3.66	12.250	2.90	18.25	1.45
0.267	1.07	6.267	3.66	12.267	2.90	18.27	1.45
0.283	1.07	6.283	3.66	12.283	2.90	18.28	1.45
0.300	1.07	6.300	3.66	12.300	2.90	18.30	1.45
0.317	1.07	6.317	3.66	12.317	2.90	18.32	1.45
0.333	1.07	6.333	3.66	12.333	2.90	18.33	1.45
0.350	1.08	6.350	4.00	12.350	2.82	18.35	1.43
0.367	1.08	6.367	4.00	12.367	2.82	18.37	1.43
0.383	1.08	6.383	4.00	12.383	2.82	18.38	1.43
0.400	1.08	6.400	4.00	12.400	2.82	18.40	1.43
0.417	1.08	6.417	4.00	12.417	2.82	18.42	1.43
0.433	1.08	6.433	4.00	12.433	2.82	18.43	1.43
0.450	1.08	6.450	4.00	12.450	2.82	18.45	1.43
0.467	1.08	6.467	4.00	12.467	2.82	18.47	1.43
0.483	1.08	6.483	4.00	12.483	2.82	18.48	1.43
0.500	1.08	6.500	4.00	12.500	2.82	18.50	1.43
0.517	1.10	6.517	4.42	12.517	2.73	18.52	1.41
0.533	1.10	6.533	4.42	12.533	2.73	18.53	1.41
0.550	1.10	6.550	4.42	12.550	2.73	18.55	1.41
0.567	1.10	6.567	4.42	12.567	2.73	18.57	1.41
0.583	1.10	6.583	4.42	12.583	2.73	18.58	1.41
0.600	1.10	6.600	4.42	12.600	2.73	18.60	1.41
0.617	1.10	6.617	4.42	12.617	2.73	18.62	1.41
0.633	1.10	6.633	4.42	12.633	2.73	18.63	1.41
0.650	1.10	6.650	4.42	12.650	2.73	18.65	1.41

0.667	1.10	6.667	4.42	12.667	2.73	18.67	1.41
0.683	1.12	6.683	4.96	12.683	2.66	18.68	1.40
0.700	1.12	6.700	4.96	12.700	2.66	18.70	1.40
0.717	1.12	6.717	4.96	12.717	2.66	18.72	1.40
0.733	1.12	6.733	4.96	12.733	2.66	18.73	1.40
0.750	1.12	6.750	4.96	12.750	2.66	18.75	1.40
0.767	1.12	6.767	4.96	12.767	2.66	18.77	1.40
0.783	1.12	6.783	4.96	12.783	2.66	18.78	1.40
0.800	1.12	6.800	4.96	12.800	2.66	18.80	1.40
0.817	1.12	6.817	4.96	12.817	2.66	18.82	1.40
0.833	1.12	6.833	4.96	12.833	2.66	18.83	1.40
0.850	1.14	6.850	5.67	12.850	2.59	18.85	1.38
0.867	1.14	6.867	5.67	12.867	2.59	18.87	1.38
0.883	1.14	6.883	5.67	12.883	2.59	18.88	1.38
0.900	1.14	6.900	5.67	12.900	2.59	18.90	1.38
0.917	1.14	6.917	5.67	12.917	2.59	18.92	1.38
0.933	1.14	6.933	5.67	12.933	2.59	18.93	1.38
0.950	1.14	6.950	5.67	12.950	2.59	18.95	1.38
0.967	1.14	6.967	5.67	12.967	2.59	18.97	1.38
0.983	1.14	6.983	5.67	12.983	2.59	18.98	1.38
1.000	1.14	7.000	5.67	13.000	2.59	19.00	1.38
1.017	1.17	7.017	6.66	13.017	2.52	19.02	1.36
1.033	1.17	7.033	6.66	13.033	2.52	19.03	1.36
1.050	1.17	7.050	6.66	13.050	2.52	19.05	1.36
1.067	1.17	7.067	6.66	13.067	2.52	19.07	1.36
1.083	1.17	7.083	6.66	13.083	2.52	19.08	1.36
1.100	1.17	7.100	6.66	13.100	2.52	19.10	1.36
1.117	1.17	7.117	6.66	13.117	2.52	19.12	1.36
1.133	1.17	7.133	6.66	13.133	2.52	19.13	1.36
1.150	1.17	7.150	6.66	13.150	2.52	19.15	1.36
1.167	1.17	7.167	6.66	13.167	2.52	19.17	1.36
1.183	1.19	7.183	8.15	13.183	2.46	19.18	1.35
1.200	1.19	7.200	8.15	13.200	2.46	19.20	1.35
1.217	1.19	7.217	8.15	13.217	2.46	19.22	1.35
1.233	1.19	7.233	8.15	13.233	2.46	19.23	1.35
1.250	1.19	7.250	8.15	13.250	2.46	19.25	1.35
1.267	1.19	7.267	8.15	13.267	2.46	19.27	1.35
1.283	1.19	7.283	8.15	13.283	2.46	19.28	1.35
1.300	1.19	7.300	8.15	13.300	2.46	19.30	1.35
1.317	1.19	7.317	8.15	13.317	2.46	19.32	1.35
1.333	1.19	7.333	8.16	13.333	2.46	19.33	1.35
1.350	1.21	7.350	10.70	13.350	2.40	19.35	1.33
1.367	1.21	7.367	10.70	13.367	2.40	19.37	1.33
1.383	1.21	7.383	10.70	13.383	2.40	19.38	1.33
1.400	1.21	7.400	10.70	13.400	2.40	19.40	1.33
1.417	1.21	7.417	10.70	13.417	2.40	19.42	1.33
1.433	1.21	7.433	10.70	13.433	2.40	19.43	1.33
1.450	1.21	7.450	10.70	13.450	2.40	19.45	1.33
1.467	1.21	7.467	10.70	13.467	2.40	19.47	1.33
1.483	1.21	7.483	10.70	13.483	2.40	19.48	1.33

1.500	1.21	7.500	10.71	13.500	2.40	19.50	1.33
1.517	1.24	7.517	16.13	13.517	2.34	19.52	1.32
1.533	1.24	7.533	16.13	13.533	2.34	19.53	1.32
1.550	1.24	7.550	16.13	13.550	2.34	19.55	1.32
1.567	1.24	7.567	16.13	13.567	2.34	19.57	1.32
1.583	1.24	7.583	16.13	13.583	2.34	19.58	1.32
1.600	1.24	7.600	16.13	13.600	2.34	19.60	1.32
1.617	1.24	7.617	16.13	13.617	2.34	19.62	1.32
1.633	1.24	7.633	16.13	13.633	2.34	19.63	1.32
1.650	1.24	7.650	16.13	13.650	2.34	19.65	1.32
1.667	1.24	7.667	16.19	13.667	2.34	19.67	1.32
1.683	1.27	7.683	37.84	13.683	2.29	19.68	1.30
1.700	1.27	7.700	37.84	13.700	2.29	19.70	1.30
1.717	1.27	7.717	37.84	13.717	2.29	19.72	1.30
1.733	1.27	7.733	37.84	13.733	2.29	19.73	1.30
1.750	1.27	7.750	37.84	13.750	2.29	19.75	1.30
1.767	1.27	7.767	37.84	13.767	2.29	19.77	1.30
1.783	1.27	7.783	37.84	13.783	2.29	19.78	1.30
1.800	1.27	7.800	37.84	13.800	2.29	19.80	1.30
1.817	1.27	7.817	37.84	13.817	2.29	19.82	1.30
1.833	1.27	7.833	38.19	13.833	2.29	19.83	1.30
1.850	1.29	7.850	158.18	13.850	2.23	19.85	1.29
1.867	1.29	7.867	158.18	13.867	2.23	19.87	1.29
1.883	1.29	7.883	158.18	13.883	2.23	19.88	1.29
1.900	1.29	7.900	158.18	13.900	2.23	19.90	1.29
1.917	1.29	7.917	158.18	13.917	2.23	19.92	1.29
1.933	1.29	7.933	158.18	13.933	2.23	19.93	1.29
1.950	1.29	7.950	158.18	13.950	2.23	19.95	1.29
1.967	1.29	7.967	158.18	13.967	2.23	19.97	1.29
1.983	1.29	7.983	158.18	13.983	2.23	19.98	1.29
2.000	1.29	8.000	157.86	14.000	2.23	20.00	1.29
2.017	1.32	8.017	49.42	14.017	2.19	20.02	1.27
2.033	1.32	8.033	49.42	14.033	2.19	20.03	1.27
2.050	1.32	8.050	49.42	14.050	2.19	20.05	1.27
2.067	1.32	8.067	49.42	14.067	2.19	20.07	1.27
2.083	1.32	8.083	49.42	14.083	2.19	20.08	1.27
2.100	1.32	8.100	49.42	14.100	2.19	20.10	1.27
2.117	1.32	8.117	49.42	14.117	2.19	20.12	1.27
2.133	1.32	8.133	49.42	14.133	2.19	20.13	1.27
2.150	1.32	8.150	49.42	14.150	2.19	20.15	1.27
2.167	1.32	8.167	49.35	14.167	2.19	20.17	1.27
2.183	1.35	8.183	26.31	14.183	2.14	20.18	1.26
2.200	1.35	8.200	26.31	14.200	2.14	20.20	1.26
2.217	1.35	8.217	26.31	14.217	2.14	20.22	1.26
2.233	1.35	8.233	26.31	14.233	2.14	20.23	1.26
2.250	1.35	8.250	26.31	14.250	2.14	20.25	1.26
2.267	1.35	8.267	26.31	14.267	2.14	20.27	1.26
2.283	1.35	8.283	26.31	14.283	2.14	20.28	1.26
2.300	1.35	8.300	26.31	14.300	2.14	20.30	1.26
2.317	1.35	8.317	26.31	14.317	2.14	20.32	1.26

2.333	1.35	8.333	26.29	14.333	2.14	20.33	1.26
2.350	1.39	8.350	18.21	14.350	2.10	20.35	1.25
2.367	1.39	8.367	18.21	14.367	2.10	20.37	1.25
2.383	1.39	8.383	18.21	14.383	2.10	20.38	1.25
2.400	1.39	8.400	18.21	14.400	2.10	20.40	1.25
2.417	1.39	8.417	18.21	14.417	2.10	20.42	1.25
2.433	1.39	8.433	18.21	14.433	2.10	20.43	1.25
2.450	1.39	8.450	18.21	14.450	2.10	20.45	1.25
2.467	1.39	8.467	18.21	14.467	2.10	20.47	1.25
2.483	1.39	8.483	18.21	14.483	2.10	20.48	1.25
2.500	1.39	8.500	18.20	14.500	2.10	20.50	1.25
2.517	1.42	8.517	14.08	14.517	2.05	20.52	1.23
2.533	1.42	8.533	14.08	14.533	2.05	20.53	1.23
2.550	1.42	8.550	14.08	14.550	2.05	20.55	1.23
2.567	1.42	8.567	14.08	14.567	2.05	20.57	1.23
2.583	1.42	8.583	14.08	14.583	2.05	20.58	1.23
2.600	1.42	8.600	14.08	14.600	2.05	20.60	1.23
2.617	1.42	8.617	14.08	14.617	2.05	20.62	1.23
2.633	1.42	8.633	14.08	14.633	2.05	20.63	1.23
2.650	1.42	8.650	14.08	14.650	2.05	20.65	1.23
2.667	1.42	8.667	14.07	14.667	2.05	20.67	1.23
2.683	1.46	8.683	11.56	14.683	2.01	20.68	1.22
2.700	1.46	8.700	11.56	14.700	2.01	20.70	1.22
2.717	1.46	8.717	11.56	14.717	2.01	20.72	1.22
2.733	1.46	8.733	11.56	14.733	2.01	20.73	1.22
2.750	1.46	8.750	11.56	14.750	2.01	20.75	1.22
2.767	1.46	8.767	11.56	14.767	2.01	20.77	1.22
2.783	1.46	8.783	11.56	14.783	2.01	20.78	1.22
2.800	1.46	8.800	11.56	14.800	2.01	20.80	1.22
2.817	1.46	8.817	11.56	14.817	2.01	20.82	1.22
2.833	1.46	8.833	11.56	14.833	2.01	20.83	1.22
2.850	1.50	8.850	9.86	14.850	1.98	20.85	1.21
2.867	1.50	8.867	9.86	14.867	1.98	20.87	1.21
2.883	1.50	8.883	9.86	14.883	1.98	20.88	1.21
2.900	1.50	8.900	9.86	14.900	1.98	20.90	1.21
2.917	1.50	8.917	9.86	14.917	1.98	20.92	1.21
2.933	1.50	8.933	9.86	14.933	1.98	20.93	1.21
2.950	1.50	8.950	9.86	14.950	1.98	20.95	1.21
2.967	1.50	8.967	9.86	14.967	1.98	20.97	1.21
2.983	1.50	8.983	9.86	14.983	1.98	20.98	1.21
3.000	1.50	9.000	9.86	15.000	1.98	21.00	1.21
3.017	1.54	9.017	8.63	15.017	1.94	21.02	1.20
3.033	1.54	9.033	8.63	15.033	1.94	21.03	1.20
3.050	1.54	9.050	8.63	15.050	1.94	21.05	1.20
3.067	1.54	9.067	8.63	15.067	1.94	21.07	1.20
3.083	1.54	9.083	8.63	15.083	1.94	21.08	1.20
3.100	1.54	9.100	8.63	15.100	1.94	21.10	1.20
3.117	1.54	9.117	8.63	15.117	1.94	21.12	1.20
3.133	1.54	9.133	8.63	15.133	1.94	21.13	1.20
3.150	1.54	9.150	8.63	15.150	1.94	21.15	1.20

3.167	1.54	9.167	8.63	15.167	1.94	21.17	1.20
3.183	1.58	9.183	7.70	15.183	1.90	21.18	1.19
3.200	1.58	9.200	7.70	15.200	1.90	21.20	1.19
3.217	1.58	9.217	7.70	15.217	1.90	21.22	1.19
3.233	1.58	9.233	7.70	15.233	1.90	21.23	1.19
3.250	1.58	9.250	7.70	15.250	1.90	21.25	1.19
3.267	1.58	9.267	7.70	15.267	1.90	21.27	1.19
3.283	1.58	9.283	7.70	15.283	1.90	21.28	1.19
3.300	1.58	9.300	7.70	15.300	1.90	21.30	1.19
3.317	1.58	9.317	7.70	15.317	1.90	21.32	1.19
3.333	1.58	9.333	7.70	15.333	1.90	21.33	1.19
3.350	1.63	9.350	6.96	15.350	1.87	21.35	1.17
3.367	1.63	9.367	6.96	15.367	1.87	21.37	1.17
3.383	1.63	9.383	6.96	15.383	1.87	21.38	1.17
3.400	1.63	9.400	6.96	15.400	1.87	21.40	1.17
3.417	1.63	9.417	6.96	15.417	1.87	21.42	1.17
3.433	1.63	9.433	6.96	15.433	1.87	21.43	1.17
3.450	1.63	9.450	6.96	15.450	1.87	21.45	1.17
3.467	1.63	9.467	6.96	15.467	1.87	21.47	1.17
3.483	1.63	9.483	6.96	15.483	1.87	21.48	1.17
3.500	1.63	9.500	6.96	15.500	1.87	21.50	1.17
3.517	1.68	9.517	6.37	15.517	1.84	21.52	1.16
3.533	1.68	9.533	6.37	15.533	1.84	21.53	1.16
3.550	1.68	9.550	6.37	15.550	1.84	21.55	1.16
3.567	1.68	9.567	6.37	15.567	1.84	21.57	1.16
3.583	1.68	9.583	6.37	15.583	1.84	21.58	1.16
3.600	1.68	9.600	6.37	15.600	1.84	21.60	1.16
3.617	1.68	9.617	6.37	15.617	1.84	21.62	1.16
3.633	1.68	9.633	6.37	15.633	1.84	21.63	1.16
3.650	1.68	9.650	6.37	15.650	1.84	21.65	1.16
3.667	1.68	9.667	6.37	15.667	1.84	21.67	1.16
3.683	1.73	9.683	5.88	15.683	1.81	21.68	1.15
3.700	1.73	9.700	5.88	15.700	1.81	21.70	1.15
3.717	1.73	9.717	5.88	15.717	1.81	21.72	1.15
3.733	1.73	9.733	5.88	15.733	1.81	21.73	1.15
3.750	1.73	9.750	5.88	15.750	1.81	21.75	1.15
3.767	1.73	9.767	5.88	15.767	1.81	21.77	1.15
3.783	1.73	9.783	5.88	15.783	1.81	21.78	1.15
3.800	1.73	9.800	5.88	15.800	1.81	21.80	1.15
3.817	1.73	9.817	5.88	15.817	1.81	21.82	1.15
3.833	1.73	9.833	5.88	15.833	1.81	21.83	1.15
3.850	1.79	9.850	5.47	15.850	1.78	21.85	1.14
3.867	1.79	9.867	5.47	15.867	1.78	21.87	1.14
3.883	1.79	9.883	5.47	15.883	1.78	21.88	1.14
3.900	1.79	9.900	5.47	15.900	1.78	21.90	1.14
3.917	1.79	9.917	5.47	15.917	1.78	21.92	1.14
3.933	1.79	9.933	5.47	15.933	1.78	21.93	1.14
3.950	1.79	9.950	5.47	15.950	1.78	21.95	1.14
3.967	1.79	9.967	5.47	15.967	1.78	21.97	1.14
3.983	1.79	9.983	5.47	15.983	1.78	21.98	1.14

4.000	1.79	10.000	5.47	16.000	1.78	22.00	1.14
4.017	1.85	10.017	5.12	16.017	1.75	22.02	1.13
4.033	1.85	10.033	5.12	16.033	1.75	22.03	1.13
4.050	1.85	10.050	5.12	16.050	1.75	22.05	1.13
4.067	1.85	10.067	5.12	16.067	1.75	22.07	1.13
4.083	1.85	10.083	5.12	16.083	1.75	22.08	1.13
4.100	1.85	10.100	5.12	16.100	1.75	22.10	1.13
4.117	1.85	10.117	5.12	16.117	1.75	22.12	1.13
4.133	1.85	10.133	5.12	16.133	1.75	22.13	1.13
4.150	1.85	10.150	5.12	16.150	1.75	22.15	1.13
4.167	1.85	10.167	5.12	16.167	1.75	22.17	1.13
4.183	1.92	10.183	4.81	16.183	1.72	22.18	1.12
4.200	1.92	10.200	4.81	16.200	1.72	22.20	1.12
4.217	1.92	10.217	4.81	16.217	1.72	22.22	1.12
4.233	1.92	10.233	4.81	16.233	1.72	22.23	1.12
4.250	1.92	10.250	4.81	16.250	1.72	22.25	1.12
4.267	1.92	10.267	4.81	16.267	1.72	22.27	1.12
4.283	1.92	10.283	4.81	16.283	1.72	22.28	1.12
4.300	1.92	10.300	4.81	16.300	1.72	22.30	1.12
4.317	1.92	10.317	4.81	16.317	1.72	22.32	1.12
4.333	1.92	10.333	4.81	16.333	1.72	22.33	1.12
4.350	1.99	10.350	4.55	16.350	1.69	22.35	1.11
4.367	1.99	10.367	4.55	16.367	1.69	22.37	1.11
4.383	1.99	10.383	4.55	16.383	1.69	22.38	1.11
4.400	1.99	10.400	4.55	16.400	1.69	22.40	1.11
4.417	1.99	10.417	4.55	16.417	1.69	22.42	1.11
4.433	1.99	10.433	4.55	16.433	1.69	22.43	1.11
4.450	1.99	10.450	4.55	16.450	1.69	22.45	1.11
4.467	1.99	10.467	4.55	16.467	1.69	22.47	1.11
4.483	1.99	10.483	4.55	16.483	1.69	22.48	1.11
4.500	1.99	10.500	4.54	16.500	1.69	22.50	1.11
4.517	2.07	10.517	4.31	16.517	1.67	22.52	1.10
4.533	2.07	10.533	4.31	16.533	1.67	22.53	1.10
4.550	2.07	10.550	4.31	16.550	1.67	22.55	1.10
4.567	2.07	10.567	4.31	16.567	1.67	22.57	1.10
4.583	2.07	10.583	4.31	16.583	1.67	22.58	1.10
4.600	2.07	10.600	4.31	16.600	1.67	22.60	1.10
4.617	2.07	10.617	4.31	16.617	1.67	22.62	1.10
4.633	2.07	10.633	4.31	16.633	1.67	22.63	1.10
4.650	2.07	10.650	4.31	16.650	1.67	22.65	1.10
4.667	2.07	10.667	4.31	16.667	1.67	22.67	1.10
4.683	2.16	10.683	4.10	16.683	1.64	22.68	1.09
4.700	2.16	10.700	4.10	16.700	1.64	22.70	1.09
4.717	2.16	10.717	4.10	16.717	1.64	22.72	1.09
4.733	2.16	10.733	4.10	16.733	1.64	22.73	1.09
4.750	2.16	10.750	4.10	16.750	1.64	22.75	1.09
4.767	2.16	10.767	4.10	16.767	1.64	22.77	1.09
4.783	2.16	10.783	4.10	16.783	1.64	22.78	1.09
4.800	2.16	10.800	4.10	16.800	1.64	22.80	1.09
4.817	2.16	10.817	4.10	16.817	1.64	22.82	1.09

4.833	2.16	10.833	4.10	16.833	1.64	22.83	1.09
4.850	2.26	10.850	3.91	16.850	1.62	22.85	1.08
4.867	2.26	10.867	3.91	16.867	1.62	22.87	1.08
4.883	2.26	10.883	3.91	16.883	1.62	22.88	1.08
4.900	2.26	10.900	3.91	16.900	1.62	22.90	1.08
4.917	2.26	10.917	3.91	16.917	1.62	22.92	1.08
4.933	2.26	10.933	3.91	16.933	1.62	22.93	1.08
4.950	2.26	10.950	3.91	16.950	1.62	22.95	1.08
4.967	2.26	10.967	3.91	16.967	1.62	22.97	1.08
4.983	2.26	10.983	3.91	16.983	1.62	22.98	1.08
5.000	2.26	11.000	3.91	17.000	1.62	23.00	1.08
5.017	2.36	11.017	3.74	17.017	1.59	23.02	1.07
5.033	2.36	11.033	3.74	17.033	1.59	23.03	1.07
5.050	2.36	11.050	3.74	17.050	1.59	23.05	1.07
5.067	2.36	11.067	3.74	17.067	1.59	23.07	1.07
5.083	2.36	11.083	3.74	17.083	1.59	23.08	1.07
5.100	2.36	11.100	3.74	17.100	1.59	23.10	1.07
5.117	2.36	11.117	3.74	17.117	1.59	23.12	1.07
5.133	2.36	11.133	3.74	17.133	1.59	23.13	1.07
5.150	2.36	11.150	3.74	17.150	1.59	23.15	1.07
5.167	2.36	11.167	3.74	17.167	1.59	23.17	1.07
5.183	2.48	11.183	3.59	17.183	1.57	23.18	1.06
5.200	2.48	11.200	3.59	17.200	1.57	23.20	1.06
5.217	2.48	11.217	3.59	17.217	1.57	23.22	1.06
5.233	2.48	11.233	3.59	17.233	1.57	23.23	1.06
5.250	2.48	11.250	3.59	17.250	1.57	23.25	1.06
5.267	2.48	11.267	3.59	17.267	1.57	23.27	1.06
5.283	2.48	11.283	3.59	17.283	1.57	23.28	1.06
5.300	2.48	11.300	3.59	17.300	1.57	23.30	1.06
5.317	2.48	11.317	3.59	17.317	1.57	23.32	1.06
5.333	2.48	11.333	3.59	17.333	1.57	23.33	1.06
5.350	2.62	11.350	3.45	17.350	1.55	23.35	1.05
5.367	2.62	11.367	3.45	17.367	1.55	23.37	1.05
5.383	2.62	11.383	3.45	17.383	1.55	23.38	1.05
5.400	2.62	11.400	3.45	17.400	1.55	23.40	1.05
5.417	2.62	11.417	3.45	17.417	1.55	23.42	1.05
5.433	2.62	11.433	3.45	17.433	1.55	23.43	1.05
5.450	2.62	11.450	3.45	17.450	1.55	23.45	1.05
5.467	2.62	11.467	3.45	17.467	1.55	23.47	1.05
5.483	2.62	11.483	3.45	17.483	1.55	23.48	1.05
5.500	2.62	11.500	3.45	17.500	1.55	23.50	1.05
5.517	2.77	11.517	3.32	17.517	1.53	23.52	1.04
5.533	2.77	11.533	3.32	17.533	1.53	23.53	1.04
5.550	2.77	11.550	3.32	17.550	1.53	23.55	1.04
5.567	2.77	11.567	3.32	17.567	1.53	23.57	1.04
5.583	2.77	11.583	3.32	17.583	1.53	23.58	1.04
5.600	2.77	11.600	3.32	17.600	1.53	23.60	1.04
5.617	2.77	11.617	3.32	17.617	1.53	23.62	1.04
5.633	2.77	11.633	3.32	17.633	1.53	23.63	1.04
5.650	2.77	11.650	3.32	17.650	1.53	23.65	1.04

5.667	2.77	11.667	3.32	17.667	1.53	23.67	1.04
5.683	2.95	11.683	3.20	17.683	1.51	23.68	1.04
5.700	2.95	11.700	3.20	17.700	1.51	23.70	1.04
5.717	2.95	11.717	3.20	17.717	1.51	23.72	1.04
5.733	2.95	11.733	3.20	17.733	1.51	23.73	1.04
5.750	2.95	11.750	3.20	17.750	1.51	23.75	1.04
5.767	2.95	11.767	3.20	17.767	1.51	23.77	1.04
5.783	2.95	11.783	3.20	17.783	1.51	23.78	1.04
5.800	2.95	11.800	3.20	17.800	1.51	23.80	1.04
5.817	2.95	11.817	3.20	17.817	1.51	23.82	1.04
5.833	2.95	11.833	3.20	17.833	1.51	23.83	1.04
5.850	3.15	11.850	3.10	17.850	1.49	23.85	1.03
5.867	3.15	11.867	3.10	17.867	1.49	23.87	1.03
5.883	3.15	11.883	3.10	17.883	1.49	23.88	1.03
5.900	3.15	11.900	3.10	17.900	1.49	23.90	1.03
5.917	3.15	11.917	3.10	17.917	1.49	23.92	1.03
5.933	3.15	11.933	3.10	17.933	1.49	23.93	1.03
5.950	3.15	11.950	3.10	17.950	1.49	23.95	1.03
5.967	3.15	11.967	3.10	17.967	1.49	23.97	1.03
5.983	3.15	11.983	3.10	17.983	1.49	23.98	1.03
6.000	3.15	12.000	3.10	18.000	1.49	24.00	1.03

Max.Eff.Inten.(mm/hr)=	158.18	144.71	
over (min)	5.00	11.00	
Storage Coeff. (min)=	4.29 (ii)	10.26 (ii)	
Unit Hyd. Tpeak (min)=	5.00	11.00	
Unit Hyd. peak (cms)=	0.25	0.11	
		TOTALS	
PEAK FLOW (cms)=	2.93	1.93	4.512 (iii)
TIME TO PEAK (hrs)=	8.02	8.12	8.03
RUNOFF VOLUME (mm)=	109.00	95.85	102.31
TOTAL RAINFALL (mm)=	110.01	110.01	110.01
RUNOFF COEFFICIENT =	0.99	0.87	0.93

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 94.0 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.

```
      V    V   I    SSSSS  U   U    A    L             (v 6.2.2019)
      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
```

```
       OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
      O   O    T      T    H   H   Y Y   MM MM  O   O
      O   O    T      T    H   H    Y    M  M  O   O
       OOO     T      T    H   H    Y    M   M   OOO
Developed and Distributed by Smart City Water Inc
Copyright 2007 - 2022 Smart City Water Inc
All rights reserved.
```

***** 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\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\a1f0933c-393c-4377-b24b-b718dd77ff7f\scenari
Summary filename:
C:\Users\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\a1f0933c-393c-4377-b24b-b718dd77ff7f\scenari

DATE: 01-27-2026 TIME: 02:07:39

USER:

COMMENTS: _____

** SIMULATION : 7 - 100-year 24hr Chic - Milt **

CHICAGO STORM	IDF curve parameters: A=1435.000
Ptotal=122.41 mm	B= 5.200
	C= 0.775

used in: INTENSITY = A / (t + B)^C

Duration of storm = 24.00 hrs
Storm time step = 10.00 min
Time to peak ratio = 0.33

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr

0.00	1.18	6.00	3.80	12.00	3.36	18.00	1.66
0.17	1.20	6.17	4.11	12.17	3.26	18.17	1.64
0.33	1.22	6.33	4.49	12.33	3.16	18.33	1.61
0.50	1.25	6.50	4.95	12.50	3.07	18.50	1.59
0.67	1.27	6.67	5.55	12.67	2.99	18.67	1.58
0.83	1.29	6.83	6.34	12.83	2.91	18.83	1.56
1.00	1.32	7.00	7.44	13.00	2.83	19.00	1.54
1.17	1.34	7.17	9.10	13.17	2.76	19.17	1.52
1.33	1.37	7.33	11.90	13.33	2.69	19.33	1.50
1.50	1.40	7.50	17.89	13.50	2.63	19.50	1.49
1.67	1.43	7.67	41.69	13.67	2.57	19.67	1.47
1.83	1.46	7.83	174.10	13.83	2.51	19.83	1.45
2.00	1.49	8.00	54.37	14.00	2.46	20.00	1.44
2.17	1.53	8.17	29.07	14.17	2.41	20.17	1.42
2.33	1.56	8.33	20.18	14.33	2.36	20.33	1.41
2.50	1.60	8.50	15.63	14.50	2.31	20.50	1.39
2.67	1.64	8.67	12.86	14.67	2.27	20.67	1.38
2.83	1.69	8.83	10.98	14.83	2.22	20.83	1.37
3.00	1.73	9.00	9.62	15.00	2.18	21.00	1.35
3.17	1.78	9.17	8.59	15.17	2.14	21.17	1.34
3.33	1.83	9.33	7.78	15.33	2.11	21.33	1.33
3.50	1.89	9.50	7.12	15.50	2.07	21.50	1.31
3.67	1.95	9.67	6.58	15.67	2.03	21.67	1.30
3.83	2.02	9.83	6.12	15.83	2.00	21.83	1.29
4.00	2.09	10.00	5.73	16.00	1.97	22.00	1.28
4.17	2.16	10.17	5.39	16.17	1.94	22.17	1.26
4.33	2.24	10.33	5.09	16.33	1.91	22.33	1.25
4.50	2.33	10.50	4.83	16.50	1.88	22.50	1.24
4.67	2.43	10.67	4.60	16.67	1.85	22.67	1.23
4.83	2.54	10.83	4.39	16.83	1.82	22.83	1.22
5.00	2.66	11.00	4.20	17.00	1.80	23.00	1.21
5.17	2.79	11.17	4.03	17.17	1.77	23.17	1.20
5.33	2.94	11.33	3.87	17.33	1.75	23.33	1.19
5.50	3.11	11.50	3.73	17.50	1.72	23.50	1.18
5.67	3.31	11.67	3.60	17.67	1.70	23.67	1.17
5.83	3.53	11.83	3.48	17.83	1.68	23.83	1.16

CALIB	
STANDHYD (0001)	Area (ha)= 15.57
ID= 1 DT= 1.0 min	Total Imp(%)= 49.00 Dir. Conn.(%)= 49.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	7.63	7.94
Dep. Storage	(mm)=	1.00	5.00
Average Slope	(%)=	1.00	2.00
Length	(m)=	322.18	40.00
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 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
0.017	1.18	6.017	3.80	12.017	3.36	18.02	1.66
0.033	1.18	6.033	3.80	12.033	3.36	18.03	1.66
0.050	1.18	6.050	3.80	12.050	3.36	18.05	1.66
0.067	1.18	6.067	3.80	12.067	3.36	18.07	1.66
0.083	1.18	6.083	3.80	12.083	3.36	18.08	1.66
0.100	1.18	6.100	3.80	12.100	3.36	18.10	1.66
0.117	1.18	6.117	3.80	12.117	3.36	18.12	1.66
0.133	1.18	6.133	3.80	12.133	3.36	18.13	1.66
0.150	1.18	6.150	3.80	12.150	3.36	18.15	1.66
0.167	1.18	6.167	3.80	12.167	3.36	18.17	1.66
0.183	1.20	6.183	4.11	12.183	3.26	18.18	1.64
0.200	1.20	6.200	4.11	12.200	3.26	18.20	1.64
0.217	1.20	6.217	4.11	12.217	3.26	18.22	1.64
0.233	1.20	6.233	4.11	12.233	3.26	18.23	1.64
0.250	1.20	6.250	4.11	12.250	3.26	18.25	1.64
0.267	1.20	6.267	4.11	12.267	3.26	18.27	1.64
0.283	1.20	6.283	4.11	12.283	3.26	18.28	1.64
0.300	1.20	6.300	4.11	12.300	3.26	18.30	1.64
0.317	1.20	6.317	4.11	12.317	3.26	18.32	1.64
0.333	1.20	6.333	4.11	12.333	3.26	18.33	1.64
0.350	1.22	6.350	4.49	12.350	3.16	18.35	1.61
0.367	1.22	6.367	4.49	12.367	3.16	18.37	1.61
0.383	1.22	6.383	4.49	12.383	3.16	18.38	1.61
0.400	1.22	6.400	4.49	12.400	3.16	18.40	1.61
0.417	1.22	6.417	4.49	12.417	3.16	18.42	1.61
0.433	1.22	6.433	4.49	12.433	3.16	18.43	1.61
0.450	1.22	6.450	4.49	12.450	3.16	18.45	1.61
0.467	1.22	6.467	4.49	12.467	3.16	18.47	1.61
0.483	1.22	6.483	4.49	12.483	3.16	18.48	1.61
0.500	1.22	6.500	4.49	12.500	3.16	18.50	1.61
0.517	1.25	6.517	4.95	12.517	3.07	18.52	1.60
0.533	1.25	6.533	4.95	12.533	3.07	18.53	1.59
0.550	1.25	6.550	4.95	12.550	3.07	18.55	1.59
0.567	1.25	6.567	4.95	12.567	3.07	18.57	1.59
0.583	1.25	6.583	4.95	12.583	3.07	18.58	1.59
0.600	1.25	6.600	4.95	12.600	3.07	18.60	1.59
0.617	1.25	6.617	4.95	12.617	3.07	18.62	1.59
0.633	1.25	6.633	4.95	12.633	3.07	18.63	1.59
0.650	1.25	6.650	4.95	12.650	3.07	18.65	1.59
0.667	1.25	6.667	4.96	12.667	3.07	18.67	1.59
0.683	1.27	6.683	5.55	12.683	2.99	18.68	1.58
0.700	1.27	6.700	5.55	12.700	2.99	18.70	1.58
0.717	1.27	6.717	5.55	12.717	2.99	18.72	1.58
0.733	1.27	6.733	5.55	12.733	2.99	18.73	1.58
0.750	1.27	6.750	5.55	12.750	2.99	18.75	1.58
0.767	1.27	6.767	5.55	12.767	2.99	18.77	1.58
0.783	1.27	6.783	5.55	12.783	2.99	18.78	1.58
0.800	1.27	6.800	5.55	12.800	2.99	18.80	1.58
0.817	1.27	6.817	5.55	12.817	2.99	18.82	1.58
0.833	1.27	6.833	5.55	12.833	2.99	18.83	1.58
0.850	1.29	6.850	6.34	12.850	2.91	18.85	1.56
0.867	1.29	6.867	6.34	12.867	2.91	18.87	1.56
0.883	1.29	6.883	6.34	12.883	2.91	18.88	1.56
0.900	1.29	6.900	6.34	12.900	2.91	18.90	1.56
0.917	1.29	6.917	6.34	12.917	2.91	18.92	1.56
0.933	1.29	6.933	6.34	12.933	2.91	18.93	1.56
0.950	1.29	6.950	6.34	12.950	2.91	18.95	1.56
0.967	1.29	6.967	6.34	12.967	2.91	18.97	1.56
0.983	1.29	6.983	6.34	12.983	2.91	18.98	1.56
1.000	1.29	7.000	6.34	13.000	2.91	19.00	1.56
1.017	1.32	7.017	7.44	13.017	2.83	19.02	1.54
1.033	1.32	7.033	7.44	13.033	2.83	19.03	1.54
1.050	1.32	7.050	7.44	13.050	2.83	19.05	1.54
1.067	1.32	7.067	7.44	13.067	2.83	19.07	1.54
1.083	1.32	7.083	7.44	13.083	2.83	19.08	1.54
1.100	1.32	7.100	7.44	13.100	2.83	19.10	1.54
1.117	1.32	7.117	7.44	13.117	2.83	19.12	1.54
1.133	1.32	7.133	7.44	13.133	2.83	19.13	1.54
1.150	1.32	7.150	7.44	13.150	2.83	19.15	1.54
1.167	1.32	7.167	7.44	13.167	2.83	19.17	1.54
1.183	1.34	7.183	9.10	13.183	2.76	19.18	1.52
1.200	1.34	7.200	9.10	13.200	2.76	19.20	1.52
1.217	1.34	7.217	9.10	13.217	2.76	19.22	1.52
1.233	1.34	7.233	9.10	13.233	2.76	19.23	1.52
1.250	1.34	7.250	9.10	13.250	2.76	19.25	1.52
1.267	1.34	7.267	9.10	13.267	2.76	19.27	1.52
1.283	1.34	7.283	9.10	13.283	2.76	19.28	1.52
1.300	1.34	7.300	9.10	13.300	2.76	19.30	1.52
1.317	1.34	7.317	9.10	13.317	2.76	19.32	1.52
1.333	1.34	7.333	9.10	13.333	2.76	19.33	1.52
1.350	1.37	7.350	11.90	13.350	2.69	19.35	1.50
1.367	1.37	7.367	11.90	13.367	2.69	19.37	1.50
1.383	1.37	7.383	11.90	13.383	2.69	19.38	1.50
1.400	1.37	7.400	11.90	13.400	2.69	19.40	1.50
1.417	1.37	7.417	11.90	13.417	2.69	19.42	1.50
1.433	1.37	7.433	11.90	13.433	2.69	19.43	1.50
1.450	1.37	7.450	11.90	13.450	2.69	19.45	1.50
1.467	1.37	7.467	11.90	13.467	2.69	19.47	1.50
1.483	1.37	7.483	11.90	13.483	2.69	19.48	1.50
1.500	1.37	7.500	11.92	13.500	2.69	19.50	1.50
1.517	1.40	7.517	17.89	13.517	2.63	19.52	1.49
1.533	1.40	7.533	17.89	13.533	2.63	19.53	1.49
1.550	1.40	7.550	17.89	13.550	2.63	19.55	1.49
1.567	1.40	7.567	17.89	13.567	2.63	19.57	1.49
1.583	1.40	7.583	17.89	13.583	2.63	19.58	1.49
1.600	1.40	7.600	17.89	13.600	2.63	19.60	1.49
1.617	1.40	7.617	17.89	13.617	2.63	19.62	1.49
1.633	1.40	7.633	17.89	13.633	2.63	19.63	1.49
1.650	1.40	7.650	17.89	13.650	2.63	19.65	1.49
1.667	1.40	7.667	17.95	13.667	2.63	19.67	1.49
1.683	1.43	7.683	41.69	13.683	2.57	19.68	1.47
1.700	1.43	7.700	41.69	13.700	2.57	19.70	1.47
1.717	1.43	7.717	41.69	13.717	2.57	19.72	1.47
1.733	1.43	7.733	41.69	13.733	2.57	19.73	1.47
1.750	1.43	7.750	41.69	13.750	2.57	19.75	1.47
1.767	1.43	7.767	41.69	13.767	2.57	19.77	1.47
1.783	1.43	7.783	41.69	13.783	2.57	19.78	1.47
1.800	1.43	7.800	41.69	13.800	2.57	19.80	1.47
1.817	1.43	7.817	41.69	13.817	2.57	19.82	1.47
1.833	1.43	7.833	42.07	13.833	2.57	19.83	1.47
1.850	1.46	7.850	174.10	13.850	2.51	19.85	1.45
1.867	1.46	7.867	174.10	13.867	2.51	19.87	1.45
1.883	1.46	7.883	174.10	13.883	2.51	19.88	1.45
1.900	1.46	7.900	174.10	13.900	2.51	19.90	1.45
1.917	1.46	7.917	174.10	13.917	2.51	19.92	1.45
1.933	1.46	7.933	174.10	13.933	2.51	19.93	1.45
1.950	1.46	7.950	174.10	13.950	2.51	19.95	1.45
1.967	1.46	7.967	174.10	13.967	2.51	19.97	1.45
1.983	1.46	7.983	174.10	13.983	2.51	19.98	1.45
2.000	1.46	8.000	173.75	14.000	2.51	20.00	1.45
2.017	1.49	8.017	54.37	14.017	2.46	20.02	1.44
2.033	1.49	8.033	54.37	14.033	2.46	20.03	1.44
2.050	1.49	8.050	54.37	14.050	2.46	20.05	1.44
2.067	1.49	8.067	54.37	14.067	2.46	20.07	1.44
2.083	1.49	8.083	54.37	14.083	2.46	20.08	1.44
2.100	1.49	8.100	54.37	14.100	2.46	20.10	1.44
2.117	1.49	8.117	54.37	14.117	2.46	20.12	1.44
2.133	1.49	8.133	54.37	14.133	2.46	20.13	1.44
2.150	1.49	8.150	54.37	14.150	2.46	20.15	1.44
2.167	1.49	8.167	54.30	14.167	2.46	20.17	1.44
2.183	1.53	8.183	29.07	14.183	2.41	20.18	1.42
2.200	1.53	8.200	29.07	14.200	2.41	20.20	1.42
2.217	1.53	8.217	29.07	14.217	2.41	20.22	1.42
2.233	1.53	8.233	29.07	14.233	2.41	20.23	1.42
2.250	1.53	8.250	29.07	14.250	2.41	20.25	1.42
2.267	1.53	8.267	29.07	14.267	2.41	20.27	1.42
2.283	1.53	8.283	29.07	14.283	2.41	20.28	1.42
2.300	1.53	8.300	29.07	14.300	2.41	20.30	1.42
2.317	1.53	8.317	29.07	14.317	2.41	20.32	1.42
2.333	1.53	8.333	29.05	14.333	2.41	20.33	1.42
2.350	1.56	8.350	20.18	14.350	2.36	20.35	1.41
2.367	1.56	8.367	20.18	14.367	2.36	20.37	1.41
2.383	1.56	8.383	20.18	14.383	2.36	20.38	1.41

2.400	1.56	8.400	20.18	14.400	2.36	20.40	1.41
2.417	1.56	8.417	20.18	14.417	2.36	20.42	1.41
2.433	1.56	8.433	20.18	14.433	2.36	20.43	1.41
2.450	1.56	8.450	20.18	14.450	2.36	20.45	1.41
2.467	1.56	8.467	20.18	14.467	2.36	20.47	1.41
2.483	1.56	8.483	20.18	14.483	2.36	20.48	1.41
2.500	1.56	8.500	20.17	14.500	2.36	20.50	1.41
2.517	1.60	8.517	15.63	14.517	2.31	20.52	1.39
2.533	1.60	8.533	15.63	14.533	2.31	20.53	1.39
2.550	1.60	8.550	15.63	14.550	2.31	20.55	1.39
2.567	1.60	8.567	15.63	14.567	2.31	20.57	1.39
2.583	1.60	8.583	15.63	14.583	2.31	20.58	1.39
2.600	1.60	8.600	15.63	14.600	2.31	20.60	1.39
2.617	1.60	8.617	15.63	14.617	2.31	20.62	1.39
2.633	1.60	8.633	15.63	14.633	2.31	20.63	1.39
2.650	1.60	8.650	15.63	14.650	2.31	20.65	1.39
2.667	1.60	8.667	15.62	14.667	2.31	20.67	1.39
2.683	1.64	8.683	12.86	14.683	2.27	20.68	1.38
2.700	1.64	8.700	12.86	14.700	2.27	20.70	1.38
2.717	1.64	8.717	12.86	14.717	2.27	20.72	1.38
2.733	1.64	8.733	12.86	14.733	2.27	20.73	1.38
2.750	1.64	8.750	12.86	14.750	2.27	20.75	1.38
2.767	1.64	8.767	12.86	14.767	2.27	20.77	1.38
2.783	1.64	8.783	12.86	14.783	2.27	20.78	1.38
2.800	1.64	8.800	12.86	14.800	2.27	20.80	1.38
2.817	1.64	8.817	12.86	14.817	2.27	20.82	1.38
2.833	1.64	8.833	12.85	14.833	2.27	20.83	1.38
2.850	1.69	8.850	10.98	14.850	2.22	20.85	1.37
2.867	1.69	8.867	10.98	14.867	2.22	20.87	1.37
2.883	1.69	8.883	10.98	14.883	2.22	20.88	1.37
2.900	1.69	8.900	10.98	14.900	2.22	20.90	1.37
2.917	1.69	8.917	10.98	14.917	2.22	20.92	1.37
2.933	1.69	8.933	10.98	14.933	2.22	20.93	1.37
2.950	1.69	8.950	10.98	14.950	2.22	20.95	1.37
2.967	1.69	8.967	10.98	14.967	2.22	20.97	1.37
2.983	1.69	8.983	10.98	14.983	2.22	20.98	1.37
3.000	1.69	9.000	10.98	15.000	2.22	21.00	1.37
3.017	1.73	9.017	9.62	15.017	2.18	21.02	1.35
3.033	1.73	9.033	9.62	15.033	2.18	21.03	1.35
3.050	1.73	9.050	9.62	15.050	2.18	21.05	1.35
3.067	1.73	9.067	9.62	15.067	2.18	21.07	1.35
3.083	1.73	9.083	9.62	15.083	2.18	21.08	1.35
3.100	1.73	9.100	9.62	15.100	2.18	21.10	1.35
3.117	1.73	9.117	9.62	15.117	2.18	21.12	1.35
3.133	1.73	9.133	9.62	15.133	2.18	21.13	1.35
3.150	1.73	9.150	9.62	15.150	2.18	21.15	1.35
3.167	1.73	9.167	9.62	15.167	2.18	21.17	1.35
3.183	1.78	9.183	8.59	15.183	2.14	21.18	1.34
3.200	1.78	9.200	8.59	15.200	2.14	21.20	1.34
3.217	1.78	9.217	8.59	15.217	2.14	21.22	1.34
3.233	1.78	9.233	8.59	15.233	2.14	21.23	1.34
3.250	1.78	9.250	8.59	15.250	2.14	21.25	1.34
3.267	1.78	9.267	8.59	15.267	2.14	21.27	1.34
3.283	1.78	9.283	8.59	15.283	2.14	21.28	1.34
3.300	1.78	9.300	8.59	15.300	2.14	21.30	1.34
3.317	1.78	9.317	8.59	15.317	2.14	21.32	1.34
3.333	1.78	9.333	8.59	15.333	2.14	21.33	1.34
3.350	1.83	9.350	7.78	15.350	2.11	21.35	1.33
3.367	1.83	9.367	7.78	15.367	2.11	21.37	1.33
3.383	1.83	9.383	7.78	15.383	2.11	21.38	1.33
3.400	1.83	9.400	7.78	15.400	2.11	21.40	1.33
3.417	1.83	9.417	7.78	15.417	2.11	21.42	1.33
3.433	1.83	9.433	7.78	15.433	2.11	21.43	1.33
3.450	1.83	9.450	7.78	15.450	2.11	21.45	1.33
3.467	1.83	9.467	7.78	15.467	2.11	21.47	1.33
3.483	1.83	9.483	7.78	15.483	2.11	21.48	1.33
3.500	1.83	9.500	7.78	15.500	2.11	21.50	1.33
3.517	1.89	9.517	7.12	15.517	2.07	21.52	1.31
3.533	1.89	9.533	7.12	15.533	2.07	21.53	1.31
3.550	1.89	9.550	7.12	15.550	2.07	21.55	1.31
3.567	1.89	9.567	7.12	15.567	2.07	21.57	1.31
3.583	1.89	9.583	7.12	15.583	2.07	21.58	1.31
3.600	1.89	9.600	7.12	15.600	2.07	21.60	1.31
3.617	1.89	9.617	7.12	15.617	2.07	21.62	1.31
3.633	1.89	9.633	7.12	15.633	2.07	21.63	1.31
3.650	1.89	9.650	7.12	15.650	2.07	21.65	1.31
3.667	1.89	9.667	7.12	15.667	2.07	21.67	1.31
3.683	1.95	9.683	6.58	15.683	2.03	21.68	1.30
3.700	1.95	9.700	6.58	15.700	2.03	21.70	1.30
3.717	1.95	9.717	6.58	15.717	2.03	21.72	1.30
3.733	1.95	9.733	6.58	15.733	2.03	21.73	1.30
3.750	1.95	9.750	6.58	15.750	2.03	21.75	1.30
3.767	1.95	9.767	6.58	15.767	2.03	21.77	1.30
3.783	1.95	9.783	6.58	15.783	2.03	21.78	1.30
3.800	1.95	9.800	6.58	15.800	2.03	21.80	1.30
3.817	1.95	9.817	6.58	15.817	2.03	21.82	1.30
3.833	1.95	9.833	6.58	15.833	2.03	21.83	1.30
3.850	2.02	9.850	6.12	15.850	2.00	21.85	1.29
3.867	2.02	9.867	6.12	15.867	2.00	21.87	1.29
3.883	2.02	9.883	6.12	15.883	2.00	21.88	1.29
3.900	2.02	9.900	6.12	15.900	2.00	21.90	1.29
3.917	2.02	9.917	6.12	15.917	2.00	21.92	1.29
3.933	2.02	9.933	6.12	15.933	2.00	21.93	1.29
3.950	2.02	9.950	6.12	15.950	2.00	21.95	1.29
3.967	2.02	9.967	6.12	15.967	2.00	21.97	1.29
3.983	2.02	9.983	6.12	15.983	2.00	21.98	1.29
4.000	2.02	10.000	6.12	16.000	2.00	22.00	1.29
4.017	2.09	10.017	5.73	16.017	1.97	22.02	1.28
4.033	2.09	10.033	5.73	16.033	1.97	22.03	1.28
4.050	2.09	10.050	5.73	16.050	1.97	22.05	1.28
4.067	2.09	10.067	5.73	16.067	1.97	22.07	1.28
4.083	2.09	10.083	5.73	16.083	1.97	22.08	1.28
4.100	2.09	10.100	5.73	16.100	1.97	22.10	1.28
4.117	2.09	10.117	5.73	16.117	1.97	22.12	1.28
4.133	2.09	10.133	5.73	16.133	1.97	22.13	1.28
4.150	2.09	10.150	5.73	16.150	1.97	22.15	1.28
4.167	2.09	10.167	5.73	16.167	1.97	22.17	1.28
4.183	2.16	10.183	5.39	16.183	1.94	22.18	1.26
4.200	2.16	10.200	5.39	16.200	1.94	22.20	1.26
4.217	2.16	10.217	5.39	16.217	1.94	22.22	1.26
4.233	2.16	10.233	5.39	16.233	1.94	22.23	1.26
4.250	2.16	10.250	5.39	16.250	1.94	22.25	1.26
4.267	2.16	10.267	5.39	16.267	1.94	22.27	1.26
4.283	2.16	10.283	5.39	16.283	1.94	22.28	1.26
4.300	2.16	10.300	5.39	16.300	1.94	22.30	1.26
4.317	2.16	10.317	5.39	16.317	1.94	22.32	1.26
4.333	2.16	10.333	5.39	16.333	1.94	22.33	1.26
4.350	2.24	10.350	5.09	16.350	1.91	22.35	1.25
4.367	2.24	10.367	5.09	16.367	1.91	22.37	1.25
4.383	2.24	10.383	5.09	16.383	1.91	22.38	1.25
4.400	2.24	10.400	5.09	16.400	1.91	22.40	1.25
4.417	2.24	10.417	5.09	16.417	1.91	22.42	1.25
4.433	2.24	10.433	5.09	16.433	1.91	22.43	1.25
4.450	2.24	10.450	5.09	16.450	1.91	22.45	1.25
4.467	2.24	10.467	5.09	16.467	1.91	22.47	1.25
4.483	2.24	10.483	5.09	16.483	1.91	22.48	1.25
4.500	2.24	10.500	5.09	16.500	1.91	22.50	1.25
4.517	2.33	10.517	4.83	16.517	1.88	22.52	1.24
4.533	2.33	10.533	4.83	16.533	1.88	22.53	1.24
4.550	2.33	10.550	4.83	16.550	1.88	22.55	1.24
4.567	2.33	10.567	4.83	16.567	1.88	22.57	1.24
4.583	2.33	10.583	4.83	16.583	1.88	22.58	1.24
4.600	2.33	10.600	4.83	16.600	1.88	22.60	1.24
4.617	2.33	10.617	4.83	16.617	1.88	22.62	1.24
4.633	2.33	10.633	4.83	16.633	1.88	22.63	1.24
4.650	2.33	10.650	4.83	16.650	1.88	22.65	1.24
4.667	2.33	10.667	4.83	16.667	1.88	22.67	1.24
4.683	2.43	10.683	4.60	16.683	1.85	22.68	1.23
4.700	2.43	10.700	4.60	16.700	1.85	22.70	1.23
4.717	2.43	10.717	4.60	16.717	1.85	22.72	1.23
4.733	2.43	10.733	4.60	16.733	1.85	22.73	1.23
4.750	2.43	10.750	4.60	16.750	1.85	22.75	1.23
4.767	2.43	10.767	4.60	16.767	1.85	22.77	1.23
4.783	2.43	10.783	4.60	16.783	1.85	22.78	1.23
4.800	2.43	10.800	4.60	16.800	1.85	22.80	1.23
4.817	2.43	10.817	4.60	16.817	1.85	22.82	1.23
4.833	2.43	10.833	4.60	16.833	1.85	22.83	1.23
4.850	2.54	10.850	4.39	16.850	1.82	22.85	1.22
4.867	2.54	10.867	4.39	16.867	1.82	22.87	1.22
4.883	2.54	10.883	4.39	16.883	1.82	22.88	1.22
4.900	2.54	10.900	4.39	16.900	1.82	22.90	1.22
4.917	2.54	10.917	4.39	16.917	1.82	22.92	1.22
4.933	2.54	10.933	4.39	16.933	1.82	22.93	1.22
4.950	2.54	10.950	4.39	16.950	1.82	22.95	1.22
4.967	2.54	10.967	4.39	16.967	1.82	22.97	1.22
4.983	2.54	10.983	4.39	16.983	1.82	22.98	1.22
5.000	2.54	11.000	4.39	17.000	1.82	23.00	1.22
5.017	2.66	11.017	4.20	17.017	1.80	23.02	1.21
5.033	2.66	11.033	4.20	17.033	1.80	23.03	1.21
5.050	2.66	11.050	4.20	17.050	1.80	23.05	1.21
5.067	2.66	11.067	4.20	17.067	1.80	23.07	1.21
5.083	2.66	11.083	4.20	17.083	1.80	23.08	1.21
5.100	2.66	11.100	4.20	17.100	1.80	23.10	1.21
5.117	2.66	11.117	4.20	17.117	1.80	23.12	1.21
5.133	2.66	11.133	4.20	17.133	1.80	23.13	1.21
5.150	2.66	11.150	4.20	17.150	1.80	23.15	1.21
5.167	2.66	11.167	4.20	17.167	1.80	23.17	1.21
5.183	2.79	11.183	4.03	17.183	1.77	23.18	1.20
5.200	2.79	11.200	4.03	17.200	1.77	23.20	1.20
5.217	2.79	11.217	4.03	17.217	1.77	23.22	1.20
5.233	2.79	11.233	4.03	17.233	1.77	23.23	1.20
5.250	2.79	11.250	4.03	17.250	1.77	23.25	1.20
5.267	2.79	11.267	4.03	17.267	1.77	23.27	1.20
5.283	2.79	11.283	4.03	17.283	1.77	23.28	1.20
5.300	2.79	11.300	4.03	17.300	1.77	23.30	1.20
5.317	2.79	11.317	4.03	17.317	1.77	23.32	1.20
5.333	2.79	11.333	4.03	17.333	1.77	23.33	1.20
5.350	2.94	11.350	3.87	17.350	1.75	23.35	1.19
5.367	2.94	11.367	3.87	17.367	1.75	23.37	1.19
5.383	2.94	11.383	3.87	17.383	1.75	23.38	1.19
5.400	2.94	11.400	3.87	17.400	1.75	23.40	1.19
5.417	2.94	11.417	3.87	17.417	1.75	23.42	1.19
5.433	2.94	11.433	3.87	17.433	1.75	23.43	1.19
5.450	2.94	11.450	3.87	17.450	1.75	23.45	1.19
5.467	2.94	11.467	3.87	17.467	1.75	23.47	1.19
5.483	2.94	11.483	3.87	17.483	1.75	23.48	1.19
5.500	2.94	11.500	3.87	17.500	1.75	23.50	1.19
5.517	3.11	11.517	3.73	17.517	1.72	23.52	1.18
5.533	3.11	11.533	3.73	17.533	1.72	23.53	1.18
5.550	3.11	11.550	3.73	17.550	1.72	23.55	1.18
5.567	3.11	11.567	3.73	17.567	1.72	23.57	1.18
5.583	3.11	11.583	3.73	17.583	1.72	23.58	1.18
5.600	3.11	11.600	3.73	17.600	1.72	23.60	1.18
5.617	3.11	11.617	3.73	17.617	1.72	23.62	1.18
5.633	3.11	11.633	3.73	17.633	1.72	23.63	1.18
5.650	3.11	11.650	3.73	17.650	1.72	23.65	1.18
5.667	3.11	11.667	3.73	17.667	1.72	23.67	1.18
5.683	3.31	11.683	3.60	17.683	1.70	23.68	1.17
5.700	3.31	11.700	3.60	17.700	1.70	23.70	1.17
5.717	3.31	11.717	3.60	17.717	1.70	23.72	1.17

5.733	3.31	11.733	3.60	17.733	1.70	23.73	1.17
5.750	3.31	11.750	3.60	17.750	1.70	23.75	1.17
5.767	3.31	11.767	3.60	17.767	1.70	23.77	1.17
5.783	3.31	11.783	3.60	17.783	1.70	23.78	1.17
5.800	3.31	11.800	3.60	17.800	1.70	23.80	1.17
5.817	3.31	11.817	3.60	17.817	1.70	23.82	1.17
5.833	3.31	11.833	3.60	17.833	1.70	23.83	1.17
5.850	3.53	11.850	3.48	17.850	1.68	23.85	1.16
5.867	3.53	11.867	3.48	17.867	1.68	23.87	1.16
5.883	3.53	11.883	3.48	17.883	1.68	23.88	1.16
5.900	3.53	11.900	3.48	17.900	1.68	23.90	1.16
5.917	3.53	11.917	3.48	17.917	1.68	23.92	1.16
5.933	3.53	11.933	3.48	17.933	1.68	23.93	1.16
5.950	3.53	11.950	3.48	17.950	1.68	23.95	1.16
5.967	3.53	11.967	3.48	17.967	1.68	23.97	1.16
5.983	3.53	11.983	3.48	17.983	1.68	23.98	1.16
6.000	3.53	12.000	3.48	18.000	1.68	24.00	1.16

Max.Eff.Inten.(mm/hr)=	174.10	124.59	
over (min)	5.00	10.00	
Storage Coeff. (min)=	4.13 (ii)	9.87 (ii)	
Unit Hyd. Tpeak (min)=	5.00	10.00	
Unit Hyd. peak (cms)=	0.26	0.11	
			TOTALS
PEAK FLOW (cms)=	3.25	1.70	4.642 (iii)
TIME TO PEAK (hrs)=	8.02	8.12	8.03
RUNOFF VOLUME (mm)=	121.39	84.95	102.82
TOTAL RAINFALL (mm)=	122.41	122.41	122.41
RUNOFF COEFFICIENT =	0.99	0.69	0.84

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 85.0 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
STANDHYD (0002) | Area (ha)= 15.57
ID= 1 DT= 1.0 min | Total Imp(%)= 49.00 Dir. Conn.(%)= 49.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	7.63	7.94
Dep. Storage	(mm)=	1.00	0.00
Average Slope	(%)=	1.00	2.00
Length	(m)=	322.18	40.00
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 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
0.017	1.18	6.017	3.80	12.017	3.36	18.02	1.66
0.033	1.18	6.033	3.80	12.033	3.36	18.03	1.66
0.050	1.18	6.050	3.80	12.050	3.36	18.05	1.66
0.067	1.18	6.067	3.80	12.067	3.36	18.07	1.66
0.083	1.18	6.083	3.80	12.083	3.36	18.08	1.66
0.100	1.18	6.100	3.80	12.100	3.36	18.10	1.66
0.117	1.18	6.117	3.80	12.117	3.36	18.12	1.66
0.133	1.18	6.133	3.80	12.133	3.36	18.13	1.66
0.150	1.18	6.150	3.80	12.150	3.36	18.15	1.66
0.167	1.18	6.167	3.80	12.167	3.36	18.17	1.66
0.183	1.20	6.183	4.11	12.183	3.26	18.18	1.64
0.200	1.20	6.200	4.11	12.200	3.26	18.20	1.64
0.217	1.20	6.217	4.11	12.217	3.26	18.22	1.64
0.233	1.20	6.233	4.11	12.233	3.26	18.23	1.64
0.250	1.20	6.250	4.11	12.250	3.26	18.25	1.64
0.267	1.20	6.267	4.11	12.267	3.26	18.27	1.64
0.283	1.20	6.283	4.11	12.283	3.26	18.28	1.64
0.300	1.20	6.300	4.11	12.300	3.26	18.30	1.64
0.317	1.20	6.317	4.11	12.317	3.26	18.32	1.64
0.333	1.20	6.333	4.11	12.333	3.26	18.33	1.64
0.350	1.22	6.350	4.49	12.350	3.16	18.35	1.61
0.367	1.22	6.367	4.49	12.367	3.16	18.37	1.61
0.383	1.22	6.383	4.49	12.383	3.16	18.38	1.61
0.400	1.22	6.400	4.49	12.400	3.16	18.40	1.61
0.417	1.22	6.417	4.49	12.417	3.16	18.42	1.61
0.433	1.22	6.433	4.49	12.433	3.16	18.43	1.61
0.450	1.22	6.450	4.49	12.450	3.16	18.45	1.61
0.467	1.22	6.467	4.49	12.467	3.16	18.47	1.61
0.483	1.22	6.483	4.49	12.483	3.16	18.48	1.61
0.500	1.22	6.500	4.49	12.500	3.16	18.50	1.61
0.517	1.25	6.517	4.95	12.517	3.07	18.52	1.60
0.533	1.25	6.533	4.95	12.533	3.07	18.53	1.59
0.550	1.25	6.550	4.95	12.550	3.07	18.55	1.59
0.567	1.25	6.567	4.95	12.567	3.07	18.57	1.59
0.583	1.25	6.583	4.95	12.583	3.07	18.58	1.59
0.600	1.25	6.600	4.95	12.600	3.07	18.60	1.59
0.617	1.25	6.617	4.95	12.617	3.07	18.62	1.59
0.633	1.25	6.633	4.95	12.633	3.07	18.63	1.59
0.650	1.25	6.650	4.95	12.650	3.07	18.65	1.59
0.667	1.25	6.667	4.96	12.667	3.07	18.67	1.59
0.683	1.27	6.683	5.55	12.683	2.99	18.68	1.58
0.700	1.27	6.700	5.55	12.700	2.99	18.70	1.58
0.717	1.27	6.717	5.55	12.717	2.99	18.72	1.58
0.733	1.27	6.733	5.55	12.733	2.99	18.73	1.58
0.750	1.27	6.750	5.55	12.750	2.99	18.75	1.58
0.767	1.27	6.767	5.55	12.767	2.99	18.77	1.58
0.783	1.27	6.783	5.55	12.783	2.99	18.78	1.58
0.800	1.27	6.800	5.55	12.800	2.99	18.80	1.58
0.817	1.27	6.817	5.55	12.817	2.99	18.82	1.58
0.833	1.27	6.833	5.55	12.833	2.99	18.83	1.58
0.850	1.29	6.850	6.34	12.850	2.91	18.85	1.56
0.867	1.29	6.867	6.34	12.867	2.91	18.87	1.56
0.883	1.29	6.883	6.34	12.883	2.91	18.88	1.56
0.900	1.29	6.900	6.34	12.900	2.91	18.90	1.56
0.917	1.29	6.917	6.34	12.917	2.91	18.92	1.56
0.933	1.29	6.933	6.34	12.933	2.91	18.93	1.56
0.950	1.29	6.950	6.34	12.950	2.91	18.95	1.56
0.967	1.29	6.967	6.34	12.967	2.91	18.97	1.56
0.983	1.29	6.983	6.34	12.983	2.91	18.98	1.56
1.000	1.29	7.000	6.34	13.000	2.91	19.00	1.56
1.017	1.32	7.017	7.44	13.017	2.83	19.02	1.54
1.033	1.32	7.033	7.44	13.033	2.83	19.03	1.54
1.050	1.32	7.050	7.44	13.050	2.83	19.05	1.54
1.067	1.32	7.067	7.44	13.067	2.83	19.07	1.54
1.083	1.32	7.083	7.44	13.083	2.83	19.08	1.54
1.100	1.32	7.100	7.44	13.100	2.83	19.10	1.54
1.117	1.32	7.117	7.44	13.117	2.83	19.12	1.54
1.133	1.32	7.133	7.44	13.133	2.83	19.13	1.54
1.150	1.32	7.150	7.44	13.150	2.83	19.15	1.54
1.167	1.32	7.167	7.44	13.167	2.83	19.17	1.54
1.183	1.34	7.183	9.10	13.183	2.76	19.18	1.52
1.200	1.34	7.200	9.10	13.200	2.76	19.20	1.52
1.217	1.34	7.217	9.10	13.217	2.76	19.22	1.52
1.233	1.34	7.233	9.10	13.233	2.76	19.23	1.52
1.250	1.34	7.250	9.10	13.250	2.76	19.25	1.52
1.267	1.34	7.267	9.10	13.267	2.76	19.27	1.52
1.283	1.34	7.283	9.10	13.283	2.76	19.28	1.52
1.300	1.34	7.300	9.10	13.300	2.76	19.30	1.52
1.317	1.34	7.317	9.10	13.317	2.76	19.32	1.52
1.333	1.34	7.333	9.10	13.333	2.76	19.33	1.52
1.350	1.37	7.350	11.90	13.350	2.69	19.35	1.50
1.367	1.37	7.367	11.90	13.367	2.69	19.37	1.50
1.383	1.37	7.383	11.90	13.383	2.69	19.38	1.50
1.400	1.37	7.400	11.90	13.400	2.69	19.40	1.50
1.417	1.37	7.417	11.90	13.417	2.69	19.42	1.50
1.433	1.37	7.433	11.90	13.433	2.69	19.43	1.50
1.450	1.37	7.450	11.90	13.450	2.69	19.45	1.50
1.467	1.37	7.467	11.90	13.467	2.69	19.47	1.50
1.483	1.37	7.483	11.90	13.483	2.69	19.48	1.50
1.500	1.37	7.500	11.92	13.500	2.69	19.50	1.50
1.517	1.40	7.517	17.89	13.517	2.63	19.52	1.49
1.533	1.40	7.533	17.89	13.533	2.63	19.53	1.49
1.550	1.40	7.550	17.89	13.550	2.63	19.55	1.49
1.567	1.40	7.567	17.89	13.567	2.63	19.57	1.49
1.583	1.40	7.583	17.89	13.583	2.63	19.58	1.49
1.600	1.40	7.600	17.89	13.600	2.63	19.60	1.49
1.617	1.40	7.617	17.89	13.617	2.63	19.62	1.49
1.633	1.40	7.633	17.89	13.633	2.63	19.63	1.49
1.650	1.40	7.650	17.89	13.650	2.63	19.65	1.49
1.667	1.40	7.667	17.95	13.667	2.63	19.67	1.49
1.683	1.43	7.683	41.69	13.683	2.57	19.68	1.47
1.700	1.43	7.700	41.69	13.700	2.57	19.70	1.47
1.717	1.43	7.717	41.69	13.717	2.57	19.72	1.47
1.733	1.43	7.733	41.69	13.733	2.57	19.73	1.47
1.750	1.43	7.750	41.69	13.750	2.57	19.75	1.47
1.767	1.43	7.767	41.69	13.767	2.57	19.77	1.47
1.783	1.43	7.783	41.69	13.783	2.57	19.78	1.47
1.800	1.43	7.800	41.69	13.800	2.57	19.80	1.47
1.817	1.43	7.817	41.69	13.817	2.57	19.82	1.47
1.833	1.43	7.833	42.07	13.833	2.57	19.83	1.47
1.850	1.46	7.850	174.10	13.850	2.51	19.85	1.45
1.867	1.46	7.867	174.10	13.867	2.51	19.87	1.45
1.883	1.46	7.883	174.10	13.883	2.51	19.88	1.45
1.900	1.46	7.900	174.10	13.900	2.51	19.90	1.45
1.917	1.46	7.917	174.10	13.917	2.51	19.92	1.45
1.933	1.46	7.933	174.10	13.933	2.51	19.93	1.45
1.950	1.46	7.950	174.10	13.950	2.51	19.95	1.45
1.967	1.46	7.967	174.10	13.967	2.51	19.97	1.45
1.983	1.46	7.983	174.10	13.983	2.51	19.98	1.45
2.000	1.46	8.000	173.75	14.000	2.51	20.00	1.45
2.017	1.49	8.017	54.37	14.017	2.46	20.02	1.44
2.033	1.49	8.033	54.37	14.033	2.46	20.03	1.44
2.050	1.49	8.050	54.37	14.050	2.46	20.05	1.44
2.067	1.49	8.067	54.37	14.067	2.46	20.07	1.44
2.083	1.49	8.083	54.37	14.083	2.46	20.08	1.44
2.100	1.49	8.100	54.37	14.100	2.46	20.10	1.44
2.117	1.49	8.117	54.37	14.117	2.46	20.12	1.44
2.133	1.49	8.133	54.37	14.133	2.46	20.13	1.44
2.150	1.49	8.150	54.37	14.150	2.46	20.15	1.44
2.167	1.49	8.167	54.30	14.167	2.46	20.17	1.44
2.183	1.53	8.183	29.07	14.183	2.41	20.18	1.42
2.200	1.53	8.200	29.07	14.200	2.41	20.20	1.42
2.217	1.53	8.217	29.07	14.217	2.41	20.22	1.42
2.233	1.53	8.233	29.07	14.233	2.41	20.23	1.42
2.250	1.53	8.250	29.07	14.250	2.41	20.25	1.42
2.267	1.53	8.267	29.07	14.267	2.41	20.27	1.42
2.283	1.53	8.283	29.07	14.283	2.41	20.28	1.42
2.300	1.53	8.300	29.07	14.300	2.41	20.30	1.42
2.317	1.53	8.317	29.07	14.317	2.41	20.32	1.42
2.333	1.53	8.333	29.05	14.333	2.41	20.33	1.42
2.350	1.56	8.350	20.18	14.350	2.36	20.35	1.41
2.367	1.56	8.367	20.18	14.367	2.36	20.37	1.41
2.383	1.56	8.383	20.18	14.383	2.36	20.38	1.41
2.400	1.56	8.400	20.18	14.400	2.36	20.40	1.41

2.417	1.56	8.417	20.18	14.417	2.36	20.42	1.41
2.433	1.56	8.433	20.18	14.433	2.36	20.43	1.41
2.450	1.56	8.450	20.18	14.450	2.36	20.45	1.41
2.467	1.56	8.467	20.18	14.467	2.36	20.47	1.41
2.483	1.56	8.483	20.18	14.483	2.36	20.48	1.41
2.500	1.56	8.500	20.17	14.500	2.36	20.50	1.41
2.517	1.60	8.517	15.63	14.517	2.31	20.52	1.39
2.533	1.60	8.533	15.63	14.533	2.31	20.53	1.39
2.550	1.60	8.550	15.63	14.550	2.31	20.55	1.39
2.567	1.60	8.567	15.63	14.567	2.31	20.57	1.39
2.583	1.60	8.583	15.63	14.583	2.31	20.58	1.39
2.600	1.60	8.600	15.63	14.600	2.31	20.60	1.39
2.617	1.60	8.617	15.63	14.617	2.31	20.62	1.39
2.633	1.60	8.633	15.63	14.633	2.31	20.63	1.39
2.650	1.60	8.650	15.63	14.650	2.31	20.65	1.39
2.667	1.60	8.667	15.62	14.667	2.31	20.67	1.39
2.683	1.64	8.683	12.86	14.683	2.27	20.68	1.38
2.700	1.64	8.700	12.86	14.700	2.27	20.70	1.38
2.717	1.64	8.717	12.86	14.717	2.27	20.72	1.38
2.733	1.64	8.733	12.86	14.733	2.27	20.73	1.38
2.750	1.64	8.750	12.86	14.750	2.27	20.75	1.38
2.767	1.64	8.767	12.86	14.767	2.27	20.77	1.38
2.783	1.64	8.783	12.86	14.783	2.27	20.78	1.38
2.800	1.64	8.800	12.86	14.800	2.27	20.80	1.38
2.817	1.64	8.817	12.86	14.817	2.27	20.82	1.38
2.833	1.64	8.833	12.85	14.833	2.27	20.83	1.38
2.850	1.69	8.850	10.98	14.850	2.22	20.85	1.37
2.867	1.69	8.867	10.98	14.867	2.22	20.87	1.37
2.883	1.69	8.883	10.98	14.883	2.22	20.88	1.37
2.900	1.69	8.900	10.98	14.900	2.22	20.90	1.37
2.917	1.69	8.917	10.98	14.917	2.22	20.92	1.37
2.933	1.69	8.933	10.98	14.933	2.22	20.93	1.37
2.950	1.69	8.950	10.98	14.950	2.22	20.95	1.37
2.967	1.69	8.967	10.98	14.967	2.22	20.97	1.37
2.983	1.69	8.983	10.98	14.983	2.22	20.98	1.37
3.000	1.69	9.000	10.98	15.000	2.22	21.00	1.37
3.017	1.73	9.017	9.62	15.017	2.18	21.02	1.35
3.033	1.73	9.033	9.62	15.033	2.18	21.03	1.35
3.050	1.73	9.050	9.62	15.050	2.18	21.05	1.35
3.067	1.73	9.067	9.62	15.067	2.18	21.07	1.35
3.083	1.73	9.083	9.62	15.083	2.18	21.08	1.35
3.100	1.73	9.100	9.62	15.100	2.18	21.10	1.35
3.117	1.73	9.117	9.62	15.117	2.18	21.12	1.35
3.133	1.73	9.133	9.62	15.133	2.18	21.13	1.35
3.150	1.73	9.150	9.62	15.150	2.18	21.15	1.35
3.167	1.73	9.167	9.62	15.167	2.18	21.17	1.35
3.183	1.78	9.183	8.59	15.183	2.14	21.18	1.34
3.200	1.78	9.200	8.59	15.200	2.14	21.20	1.34
3.217	1.78	9.217	8.59	15.217	2.14	21.22	1.34
3.233	1.78	9.233	8.59	15.233	2.14	21.23	1.34
3.250	1.78	9.250	8.59	15.250	2.14	21.25	1.34
3.267	1.78	9.267	8.59	15.267	2.14	21.27	1.34
3.283	1.78	9.283	8.59	15.283	2.14	21.28	1.34
3.300	1.78	9.300	8.59	15.300	2.14	21.30	1.34
3.317	1.78	9.317	8.59	15.317	2.14	21.32	1.34
3.333	1.78	9.333	8.59	15.333	2.14	21.33	1.34
3.350	1.83	9.350	7.78	15.350	2.11	21.35	1.33
3.367	1.83	9.367	7.78	15.367	2.11	21.37	1.33
3.383	1.83	9.383	7.78	15.383	2.11	21.38	1.33
3.400	1.83	9.400	7.78	15.400	2.11	21.40	1.33
3.417	1.83	9.417	7.78	15.417	2.11	21.42	1.33
3.433	1.83	9.433	7.78	15.433	2.11	21.43	1.33
3.450	1.83	9.450	7.78	15.450	2.11	21.45	1.33
3.467	1.83	9.467	7.78	15.467	2.11	21.47	1.33
3.483	1.83	9.483	7.78	15.483	2.11	21.48	1.33
3.500	1.83	9.500	7.78	15.500	2.11	21.50	1.33
3.517	1.89	9.517	7.12	15.517	2.07	21.52	1.31
3.533	1.89	9.533	7.12	15.533	2.07	21.53	1.31
3.550	1.89	9.550	7.12	15.550	2.07	21.55	1.31
3.567	1.89	9.567	7.12	15.567	2.07	21.57	1.31
3.583	1.89	9.583	7.12	15.583	2.07	21.58	1.31
3.600	1.89	9.600	7.12	15.600	2.07	21.60	1.31
3.617	1.89	9.617	7.12	15.617	2.07	21.62	1.31
3.633	1.89	9.633	7.12	15.633	2.07	21.63	1.31
3.650	1.89	9.650	7.12	15.650	2.07	21.65	1.31
3.667	1.89	9.667	7.12	15.667	2.07	21.67	1.31
3.683	1.95	9.683	6.58	15.683	2.03	21.68	1.30
3.700	1.95	9.700	6.58	15.700	2.03	21.70	1.30
3.717	1.95	9.717	6.58	15.717	2.03	21.72	1.30
3.733	1.95	9.733	6.58	15.733	2.03	21.73	1.30
3.750	1.95	9.750	6.58	15.750	2.03	21.75	1.30
3.767	1.95	9.767	6.58	15.767	2.03	21.77	1.30
3.783	1.95	9.783	6.58	15.783	2.03	21.78	1.30
3.800	1.95	9.800	6.58	15.800	2.03	21.80	1.30
3.817	1.95	9.817	6.58	15.817	2.03	21.82	1.30
3.833	1.95	9.833	6.58	15.833	2.03	21.83	1.30
3.850	2.02	9.850	6.12	15.850	2.00	21.85	1.29
3.867	2.02	9.867	6.12	15.867	2.00	21.87	1.29
3.883	2.02	9.883	6.12	15.883	2.00	21.88	1.29
3.900	2.02	9.900	6.12	15.900	2.00	21.90	1.29
3.917	2.02	9.917	6.12	15.917	2.00	21.92	1.29
3.933	2.02	9.933	6.12	15.933	2.00	21.93	1.29
3.950	2.02	9.950	6.12	15.950	2.00	21.95	1.29
3.967	2.02	9.967	6.12	15.967	2.00	21.97	1.29
3.983	2.02	9.983	6.12	15.983	2.00	21.98	1.29
4.000	2.02	10.000	6.12	16.000	2.00	22.00	1.29
4.017	2.09	10.017	5.73	16.017	1.97	22.02	1.28
4.033	2.09	10.033	5.73	16.033	1.97	22.03	1.28
4.050	2.09	10.050	5.73	16.050	1.97	22.05	1.28
4.067	2.09	10.067	5.73	16.067	1.97	22.07	1.28
4.083	2.09	10.083	5.73	16.083	1.97	22.08	1.28
4.100	2.09	10.100	5.73	16.100	1.97	22.10	1.28
4.117	2.09	10.117	5.73	16.117	1.97	22.12	1.28
4.133	2.09	10.133	5.73	16.133	1.97	22.13	1.28
4.150	2.09	10.150	5.73	16.150	1.97	22.15	1.28
4.167	2.09	10.167	5.73	16.167	1.97	22.17	1.28
4.183	2.16	10.183	5.39	16.183	1.94	22.18	1.26
4.200	2.16	10.200	5.39	16.200	1.94	22.20	1.26
4.217	2.16	10.217	5.39	16.217	1.94	22.22	1.26
4.233	2.16	10.233	5.39	16.233	1.94	22.23	1.26
4.250	2.16	10.250	5.39	16.250	1.94	22.25	1.26
4.267	2.16	10.267	5.39	16.267	1.94	22.27	1.26
4.283	2.16	10.283	5.39	16.283	1.94	22.28	1.26
4.300	2.16	10.300	5.39	16.300	1.94	22.30	1.26
4.317	2.16	10.317	5.39	16.317	1.94	22.32	1.26
4.333	2.16	10.333	5.39	16.333	1.94	22.33	1.26
4.350	2.24	10.350	5.09	16.350	1.91	22.35	1.25
4.367	2.24	10.367	5.09	16.367	1.91	22.37	1.25
4.383	2.24	10.383	5.09	16.383	1.91	22.38	1.25
4.400	2.24	10.400	5.09	16.400	1.91	22.40	1.25
4.417	2.24	10.417	5.09	16.417	1.91	22.42	1.25
4.433	2.24	10.433	5.09	16.433	1.91	22.43	1.25
4.450	2.24	10.450	5.09	16.450	1.91	22.45	1.25
4.467	2.24	10.467	5.09	16.467	1.91	22.47	1.25
4.483	2.24	10.483	5.09	16.483	1.91	22.48	1.25
4.500	2.24	10.500	5.09	16.500	1.91	22.50	1.25
4.517	2.33	10.517	4.83	16.517	1.88	22.52	1.24
4.533	2.33	10.533	4.83	16.533	1.88	22.53	1.24
4.550	2.33	10.550	4.83	16.550	1.88	22.55	1.24
4.567	2.33	10.567	4.83	16.567	1.88	22.57	1.24
4.583	2.33	10.583	4.83	16.583	1.88	22.58	1.24
4.600	2.33	10.600	4.83	16.600	1.88	22.60	1.24
4.617	2.33	10.617	4.83	16.617	1.88	22.62	1.24
4.633	2.33	10.633	4.83	16.633	1.88	22.63	1.24
4.650	2.33	10.650	4.83	16.650	1.88	22.65	1.24
4.667	2.33	10.667	4.83	16.667	1.88	22.67	1.24
4.683	2.43	10.683	4.60	16.683	1.85	22.68	1.23
4.700	2.43	10.700	4.60	16.700	1.85	22.70	1.23
4.717	2.43	10.717	4.60	16.717	1.85	22.72	1.23
4.733	2.43	10.733	4.60	16.733	1.85	22.73	1.23
4.750	2.43	10.750	4.60	16.750	1.85	22.75	1.23
4.767	2.43	10.767	4.60	16.767	1.85	22.77	1.23
4.783	2.43	10.783	4.60	16.783	1.85	22.78	1.23
4.800	2.43	10.800	4.60	16.800	1.85	22.80	1.23
4.817	2.43	10.817	4.60	16.817	1.85	22.82	1.23
4.833	2.43	10.833	4.60	16.833	1.85	22.83	1.23
4.850	2.54	10.850	4.39	16.850	1.82	22.85	1.22
4.867	2.54	10.867	4.39	16.867	1.82	22.87	1.22
4.883	2.54	10.883	4.39	16.883	1.82	22.88	1.22
4.900	2.54	10.900	4.39	16.900	1.82	22.90	1.22
4.917	2.54	10.917	4.39	16.917	1.82	22.92	1.22
4.933	2.54	10.933	4.39	16.933	1.82	22.93	1.22
4.950	2.54	10.950	4.39	16.950	1.82	22.95	1.22
4.967	2.54	10.967	4.39	16.967	1.82	22.97	1.22
4.983	2.54	10.983	4.39	16.983	1.82	22.98	1.22
5.000	2.54	11.000	4.39	17.000	1.82	23.00	1.22
5.017	2.66	11.017	4.20	17.017	1.80	23.02	1.21
5.033	2.66	11.033	4.20	17.033	1.80	23.03	1.21
5.050	2.66	11.050	4.20	17.050	1.80	23.05	1.21
5.067	2.66	11.067	4.20	17.067	1.80	23.07	1.21
5.083	2.66	11.083	4.20	17.083	1.80	23.08	1.21
5.100	2.66	11.100	4.20	17.100	1.80	23.10	1.21
5.117	2.66	11.117	4.20	17.117	1.80	23.12	1.21
5.133	2.66	11.133	4.20	17.133	1.80	23.13	1.21
5.150	2.66	11.150	4.20	17.150	1.80	23.15	1.21
5.167	2.66	11.167	4.20	17.167	1.80	23.17	1.21
5.183	2.79	11.183	4.03	17.183	1.77	23.18	1.20
5.200	2.79	11.200	4.03	17.200	1.77	23.20	1.20
5.217	2.79	11.217	4.03	17.217	1.77	23.22	1.20
5.233	2.79	11.233	4.03	17.233	1.77	23.23	1.20
5.250	2.79	11.250	4.03	17.250	1.77	23.25	1.20
5.267	2.79	11.267	4.03	17.267	1.77	23.27	1.20
5.283	2.79	11.283	4.03	17.283	1.77	23.28	1.20
5.300	2.79	11.300	4.03	17.300	1.77	23.30	1.20
5.317	2.79	11.317	4.03	17.317	1.77	23.32	1.20
5.333	2.79	11.333	4.03	17.333	1.77	23.33	1.20
5.350	2.94	11.350	3.87	17.350	1.75	23.35	1.19
5.367	2.94	11.367	3.87	17.367	1.75	23.37	1.19
5.383	2.94	11.383	3.87	17.383	1.75	23.38	1.19
5.400	2.94	11.400	3.87	17.400	1.75	23.40	1.19
5.417	2.94	11.417	3.87	17.417	1.75	23.42	1.19
5.433	2.94	11.433	3.87	17.433	1.75	23.43	1.19
5.450	2.94	11.450	3.87	17.450	1.75	23.45	1.19
5.467	2.94	11.467	3.87	17.467	1.75	23.47	1.19
5.483	2.94	11.483	3.87	17.483	1.75	23.48	1.19
5.500	2.94	11.500	3.87	17.500	1.75	23.50	1.19
5.517	3.11	11.517	3.73	17.517	1.72	23.52	1.18
5.533	3.11	11.533	3.73	17.533	1.72	23.53	1.18
5.550	3.11	11.550	3.73	17.550	1.72	23.55	1.18
5.567	3.11	11.567	3.73	17.567	1.72	23.57	1.18
5.583	3.11	11.583	3.73	17.583	1.72	23.58	1.18
5.600	3.11	11.600	3.73	17.600	1.72	23.60	1.18
5.617	3.11	11.617	3.73	17.617	1.72	23.62	1.18
5.633	3.11	11.633	3.73	17.633	1.72	23.63	1.18
5.650	3.11	11.650	3.73	17.650	1.72	23.65	1.18
5.667	3.11	11.667	3.73	17.667	1.72	23.67	1.18
5.683	3.31	11.683	3.60	17.683	1.70	23.68	1.17
5.700	3.31	11.700	3.60	17.700	1.70	23.70	1.17
5.717	3.31	11.717	3.60	17.717	1.70	23.72	1.17
5.733	3.31	11.733	3.60	17.733	1.70	23.73	1.17

5.750	3.31	11.750	3.60	17.750	1.70	23.75	1.17
5.767	3.31	11.767	3.60	17.767	1.70	23.77	1.17
5.783	3.31	11.783	3.60	17.783	1.70	23.78	1.17
5.800	3.31	11.800	3.60	17.800	1.70	23.80	1.17
5.817	3.31	11.817	3.60	17.817	1.70	23.82	1.17
5.833	3.31	11.833	3.60	17.833	1.70	23.83	1.17
5.850	3.53	11.850	3.48	17.850	1.68	23.85	1.16
5.867	3.53	11.867	3.48	17.867	1.68	23.87	1.16
5.883	3.53	11.883	3.48	17.883	1.68	23.88	1.16
5.900	3.53	11.900	3.48	17.900	1.68	23.90	1.16
5.917	3.53	11.917	3.48	17.917	1.68	23.92	1.16
5.933	3.53	11.933	3.48	17.933	1.68	23.93	1.16
5.950	3.53	11.950	3.48	17.950	1.68	23.95	1.16
5.967	3.53	11.967	3.48	17.967	1.68	23.97	1.16
5.983	3.53	11.983	3.48	17.983	1.68	23.98	1.16
6.000	3.53	12.000	3.48	18.000	1.68	24.00	1.16

Max.Eff.Inten.(mm/hr)=	174.10	161.35	
over (min)	5.00	10.00	
Storage Coeff. (min)=	4.13 (ii)	9.87 (ii)	
Unit Hyd. Tpeak (min)=	5.00	10.00	
Unit Hyd. peak (cms)=	0.26	0.11	
			TOTALS
PEAK FLOW (cms)=	3.25	2.21	5.154 (iii)
TIME TO PEAK (hrs)=	8.02	8.10	8.03
RUNOFF VOLUME (mm)=	121.39	108.06	114.61
TOTAL RAINFALL (mm)=	122.41	122.41	122.41
RUNOFF COEFFICIENT =	0.99	0.88	0.94

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 94.0 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.

```
V    V   I    SSSSS  U   U    A    L              (v 6.2.2019)
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

 OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
O   O    T      T    H   H   Y Y   MM MM  O   O
O   O    T      T    H   H    Y    M   M  O   O
 OOO     T      T    H   H    Y    M   M   OOO
```

Developed and Distributed by Smart City Water Inc
Copyright 2007 - 2022 Smart City Water Inc
All rights reserved.

***** 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\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\35236c80-b07c-4d96-84f7-935ed0b37f83\scenari
Summary filename:
C:\Users\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\35236c80-b07c-4d96-84f7-935ed0b37f83\scenari

DATE: 01-27-2026 TIME: 02:07:38

USER:

COMMENTS: _____

```
**********************************************
** SIMULATION : 8 - Hazel                   **
**********************************************
```

```
--------------------
|    READ STORM    |    Filename: C:\Users\kong\AppD
|                  |              ata\Local\Temp\
|                  |              4b24bae0-43e7-4523-b2f3-4ca6a98d7aa8\008167ef
| Ptotal=212.00 mm |    Comments: HAZEL
--------------------
```

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.00	6.00	3.00	13.00	6.00	23.00	9.00	53.00
1.00	4.00	4.00	17.00	7.00	13.00	10.00	38.00
2.00	6.00	5.00	13.00	8.00	13.00	11.00	13.00

```
--------------------
| CALIB            |
```

```
| STANDHYD (  0001)|   Area    (ha)=  15.57
|ID= 1 DT= 1.0 min |   Total Imp(%)=  49.00   Dir. Conn.(%)=  49.00
--------------------
```

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	7.63	7.94
Dep. Storage (mm)=	1.00	5.00
Average Slope (%)=	1.00	2.00
Length (m)=	322.18	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 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
0.017	6.00	3.017	13.00	6.017	23.00	9.02	53.00
0.033	6.00	3.033	13.00	6.033	23.00	9.03	53.00
0.050	6.00	3.050	13.00	6.050	23.00	9.05	53.00
0.067	6.00	3.067	13.00	6.067	23.00	9.07	53.00
0.083	6.00	3.083	13.00	6.083	23.00	9.08	53.00
0.100	6.00	3.100	13.00	6.100	23.00	9.10	53.00
0.117	6.00	3.117	13.00	6.117	23.00	9.12	53.00
0.133	6.00	3.133	13.00	6.133	23.00	9.13	53.00
0.150	6.00	3.150	13.00	6.150	23.00	9.15	53.00
0.167	6.00	3.167	13.00	6.167	23.00	9.17	53.00
0.183	6.00	3.183	13.00	6.183	23.00	9.18	53.00
0.200	6.00	3.200	13.00	6.200	23.00	9.20	53.00
0.217	6.00	3.217	13.00	6.217	23.00	9.22	53.00
0.233	6.00	3.233	13.00	6.233	23.00	9.23	53.00
0.250	6.00	3.250	13.00	6.250	23.00	9.25	53.00
0.267	6.00	3.267	13.00	6.267	23.00	9.27	53.00
0.283	6.00	3.283	13.00	6.283	23.00	9.28	53.00
0.300	6.00	3.300	13.00	6.300	23.00	9.30	53.00
0.317	6.00	3.317	13.00	6.317	23.00	9.32	53.00
0.333	6.00	3.333	13.00	6.333	23.00	9.33	53.00
0.350	6.00	3.350	13.00	6.350	23.00	9.35	53.00
0.367	6.00	3.367	13.00	6.367	23.00	9.37	53.00
0.383	6.00	3.383	13.00	6.383	23.00	9.38	53.00
0.400	6.00	3.400	13.00	6.400	23.00	9.40	53.00
0.417	6.00	3.417	13.00	6.417	23.00	9.42	53.00
0.433	6.00	3.433	13.00	6.433	23.00	9.43	53.00
0.450	6.00	3.450	13.00	6.450	23.00	9.45	53.00
0.467	6.00	3.467	13.00	6.467	23.00	9.47	53.00
0.483	6.00	3.483	13.00	6.483	23.00	9.48	53.00
0.500	6.00	3.500	13.00	6.500	23.00	9.50	53.00
0.517	6.00	3.517	13.00	6.517	23.00	9.52	53.00
0.533	6.00	3.533	13.00	6.533	23.00	9.53	53.00
0.550	6.00	3.550	13.00	6.550	23.00	9.55	53.00
0.567	6.00	3.567	13.00	6.567	23.00	9.57	53.00
0.583	6.00	3.583	13.00	6.583	23.00	9.58	53.00
0.600	6.00	3.600	13.00	6.600	23.00	9.60	53.00
0.617	6.00	3.617	13.00	6.617	23.00	9.62	53.00
0.633	6.00	3.633	13.00	6.633	23.00	9.63	53.00
0.650	6.00	3.650	13.00	6.650	23.00	9.65	53.00
0.667	6.00	3.667	13.00	6.667	23.00	9.67	53.00
0.683	6.00	3.683	13.00	6.683	23.00	9.68	53.00
0.700	6.00	3.700	13.00	6.700	23.00	9.70	53.00
0.717	6.00	3.717	13.00	6.717	23.00	9.72	53.00
0.733	6.00	3.733	13.00	6.733	23.00	9.73	53.00
0.750	6.00	3.750	13.00	6.750	23.00	9.75	53.00
0.767	6.00	3.767	13.00	6.767	23.00	9.77	53.00
0.783	6.00	3.783	13.00	6.783	23.00	9.78	53.00
0.800	6.00	3.800	13.00	6.800	23.00	9.80	53.00
0.817	6.00	3.817	13.00	6.817	23.00	9.82	53.00
0.833	6.00	3.833	13.00	6.833	23.00	9.83	53.00
0.850	6.00	3.850	13.00	6.850	23.00	9.85	53.00
0.867	6.00	3.867	13.00	6.867	23.00	9.87	53.00
0.883	6.00	3.883	13.00	6.883	23.00	9.88	53.00
0.900	6.00	3.900	13.00	6.900	23.00	9.90	53.00
0.917	6.00	3.917	13.00	6.917	23.00	9.92	53.00
0.933	6.00	3.933	13.00	6.933	23.00	9.93	53.00
0.950	6.00	3.950	13.00	6.950	23.00	9.95	53.00
0.967	6.00	3.967	13.00	6.967	23.00	9.97	53.00
0.983	6.00	3.983	13.00	6.983	23.00	9.98	53.00
1.000	6.00	4.000	13.00	7.000	22.98	10.00	52.98
1.017	4.00	4.017	17.00	7.017	13.00	10.02	38.00
1.033	4.00	4.033	17.00	7.033	13.00	10.03	38.00
1.050	4.00	4.050	17.00	7.050	13.00	10.05	38.00
1.067	4.00	4.067	17.00	7.067	13.00	10.07	38.00
1.083	4.00	4.083	17.00	7.083	13.00	10.08	38.00
1.100	4.00	4.100	17.00	7.100	13.00	10.10	38.00
1.117	4.00	4.117	17.00	7.117	13.00	10.12	38.00
1.133	4.00	4.133	17.00	7.133	13.00	10.13	38.00
1.150	4.00	4.150	17.00	7.150	13.00	10.15	38.00
1.167	4.00	4.167	17.00	7.167	13.00	10.17	38.00
1.183	4.00	4.183	17.00	7.183	13.00	10.18	38.00
1.200	4.00	4.200	17.00	7.200	13.00	10.20	38.00
1.217	4.00	4.217	17.00	7.217	13.00	10.22	38.00
1.233	4.00	4.233	17.00	7.233	13.00	10.23	38.00
1.250	4.00	4.250	17.00	7.250	13.00	10.25	38.00
1.267	4.00	4.267	17.00	7.267	13.00	10.27	38.00
1.283	4.00	4.283	17.00	7.283	13.00	10.28	38.00
1.300	4.00	4.300	17.00	7.300	13.00	10.30	38.00
1.317	4.00	4.317	17.00	7.317	13.00	10.32	38.00
1.333	4.00	4.333	17.00	7.333	13.00	10.33	38.00
1.350	4.00	4.350	17.00	7.350	13.00	10.35	38.00
1.367	4.00	4.367	17.00	7.367	13.00	10.37	38.00
1.383	4.00	4.383	17.00	7.383	13.00	10.38	38.00
1.400	4.00	4.400	17.00	7.400	13.00	10.40	38.00

1.417	4.00	4.417	17.00	7.417	13.00	10.42	38.00
1.433	4.00	4.433	17.00	7.433	13.00	10.43	38.00
1.450	4.00	4.450	17.00	7.450	13.00	10.45	38.00
1.467	4.00	4.467	17.00	7.467	13.00	10.47	38.00
1.483	4.00	4.483	17.00	7.483	13.00	10.48	38.00
1.500	4.00	4.500	17.00	7.500	13.00	10.50	38.00
1.517	4.00	4.517	17.00	7.517	13.00	10.52	38.00
1.533	4.00	4.533	17.00	7.533	13.00	10.53	38.00
1.550	4.00	4.550	17.00	7.550	13.00	10.55	38.00
1.567	4.00	4.567	17.00	7.567	13.00	10.57	38.00
1.583	4.00	4.583	17.00	7.583	13.00	10.58	38.00
1.600	4.00	4.600	17.00	7.600	13.00	10.60	38.00
1.617	4.00	4.617	17.00	7.617	13.00	10.62	38.00
1.633	4.00	4.633	17.00	7.633	13.00	10.63	38.00
1.650	4.00	4.650	17.00	7.650	13.00	10.65	38.00
1.667	4.00	4.667	17.00	7.667	13.00	10.67	38.00
1.683	4.00	4.683	17.00	7.683	13.00	10.68	38.00
1.700	4.00	4.700	17.00	7.700	13.00	10.70	38.00
1.717	4.00	4.717	17.00	7.717	13.00	10.72	38.00
1.733	4.00	4.733	17.00	7.733	13.00	10.73	38.00
1.750	4.00	4.750	17.00	7.750	13.00	10.75	38.00
1.767	4.00	4.767	17.00	7.767	13.00	10.77	38.00
1.783	4.00	4.783	17.00	7.783	13.00	10.78	38.00
1.800	4.00	4.800	17.00	7.800	13.00	10.80	38.00
1.817	4.00	4.817	17.00	7.817	13.00	10.82	38.00
1.833	4.00	4.833	17.00	7.833	13.00	10.83	38.00
1.850	4.00	4.850	17.00	7.850	13.00	10.85	38.00
1.867	4.00	4.867	17.00	7.867	13.00	10.87	38.00
1.883	4.00	4.883	17.00	7.883	13.00	10.88	38.00
1.900	4.00	4.900	17.00	7.900	13.00	10.90	38.00
1.917	4.00	4.917	17.00	7.917	13.00	10.92	38.00
1.933	4.00	4.933	17.00	7.933	13.00	10.93	38.00
1.950	4.00	4.950	17.00	7.950	13.00	10.95	38.00
1.967	4.00	4.967	17.00	7.967	13.00	10.97	38.00
1.983	4.00	4.983	17.00	7.983	13.00	10.98	38.00
2.000	4.00	5.000	17.00	8.000	13.00	11.00	37.99
2.017	6.00	5.017	13.00	8.017	13.00	11.02	13.00
2.033	6.00	5.033	13.00	8.033	13.00	11.03	13.00
2.050	6.00	5.050	13.00	8.050	13.00	11.05	13.00
2.067	6.00	5.067	13.00	8.067	13.00	11.07	13.00
2.083	6.00	5.083	13.00	8.083	13.00	11.08	13.00
2.100	6.00	5.100	13.00	8.100	13.00	11.10	13.00
2.117	6.00	5.117	13.00	8.117	13.00	11.12	13.00
2.133	6.00	5.133	13.00	8.133	13.00	11.13	13.00
2.150	6.00	5.150	13.00	8.150	13.00	11.15	13.00
2.167	6.00	5.167	13.00	8.167	13.00	11.17	13.00
2.183	6.00	5.183	13.00	8.183	13.00	11.18	13.00
2.200	6.00	5.200	13.00	8.200	13.00	11.20	13.00
2.217	6.00	5.217	13.00	8.217	13.00	11.22	13.00
2.233	6.00	5.233	13.00	8.233	13.00	11.23	13.00
2.250	6.00	5.250	13.00	8.250	13.00	11.25	13.00
2.267	6.00	5.267	13.00	8.267	13.00	11.27	13.00
2.283	6.00	5.283	13.00	8.283	13.00	11.28	13.00
2.300	6.00	5.300	13.00	8.300	13.00	11.30	13.00
2.317	6.00	5.317	13.00	8.317	13.00	11.32	13.00
2.333	6.00	5.333	13.00	8.333	13.00	11.33	13.00
2.350	6.00	5.350	13.00	8.350	13.00	11.35	13.00
2.367	6.00	5.367	13.00	8.367	13.00	11.37	13.00
2.383	6.00	5.383	13.00	8.383	13.00	11.38	13.00
2.400	6.00	5.400	13.00	8.400	13.00	11.40	13.00
2.417	6.00	5.417	13.00	8.417	13.00	11.42	13.00
2.433	6.00	5.433	13.00	8.433	13.00	11.43	13.00
2.450	6.00	5.450	13.00	8.450	13.00	11.45	13.00
2.467	6.00	5.467	13.00	8.467	13.00	11.47	13.00
2.483	6.00	5.483	13.00	8.483	13.00	11.48	13.00
2.500	6.00	5.500	13.00	8.500	13.00	11.50	13.00
2.517	6.00	5.517	13.00	8.517	13.00	11.52	13.00
2.533	6.00	5.533	13.00	8.533	13.00	11.53	13.00
2.550	6.00	5.550	13.00	8.550	13.00	11.55	13.00
2.567	6.00	5.567	13.00	8.567	13.00	11.57	13.00
2.583	6.00	5.583	13.00	8.583	13.00	11.58	13.00
2.600	6.00	5.600	13.00	8.600	13.00	11.60	13.00
2.617	6.00	5.617	13.00	8.617	13.00	11.62	13.00
2.633	6.00	5.633	13.00	8.633	13.00	11.63	13.00
2.650	6.00	5.650	13.00	8.650	13.00	11.65	13.00
2.667	6.00	5.667	13.00	8.667	13.00	11.67	13.00
2.683	6.00	5.683	13.00	8.683	13.00	11.68	13.00
2.700	6.00	5.700	13.00	8.700	13.00	11.70	13.00
2.717	6.00	5.717	13.00	8.717	13.00	11.72	13.00
2.733	6.00	5.733	13.00	8.733	13.00	11.73	13.00
2.750	6.00	5.750	13.00	8.750	13.00	11.75	13.00
2.767	6.00	5.767	13.00	8.767	13.00	11.77	13.00
2.783	6.00	5.783	13.00	8.783	13.00	11.78	13.00
2.800	6.00	5.800	13.00	8.800	13.00	11.80	13.00
2.817	6.00	5.817	13.00	8.817	13.00	11.82	13.00
2.833	6.00	5.833	13.00	8.833	13.00	11.83	13.00
2.850	6.00	5.850	13.00	8.850	13.00	11.85	13.00
2.867	6.00	5.867	13.00	8.867	13.00	11.87	13.00
2.883	6.00	5.883	13.00	8.883	13.00	11.88	13.00
2.900	6.00	5.900	13.00	8.900	13.00	11.90	13.00
2.917	6.00	5.917	13.00	8.917	13.00	11.92	13.00
2.933	6.00	5.933	13.00	8.933	13.00	11.93	13.00
2.950	6.00	5.950	13.00	8.950	13.00	11.95	13.00
2.967	6.00	5.967	13.00	8.967	13.00	11.97	13.00
2.983	6.00	5.983	13.00	8.983	13.00	11.98	13.00
3.000	6.00	6.000	13.01	9.000	13.08	12.00	13.00

Max.Eff.Inten.(mm/hr)=	53.00	50.24	
over (min)	7.00	16.00	
Storage Coeff. (min)=	6.64 (ii)	15.94 (ii)	

Unit Hyd. Tpeak (min)=	7.00	16.00	
Unit Hyd. peak (cms)=	0.17	0.07	
			TOTALS
PEAK FLOW (cms)=	1.12	1.07	2.186 (iii)
TIME TO PEAK (hrs)=	10.00	10.03	10.00
RUNOFF VOLUME (mm)=	210.99	170.14	190.17
TOTAL RAINFALL (mm)=	212.00	212.00	212.00
RUNOFF COEFFICIENT =	1.00	0.80	0.90

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 85.0 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			
STANDHYD (0002)	Area (ha)=	15.57	
ID= 1 DT= 1.0 min	Total Imp(%)=	49.00	Dir. Conn.(%)= 49.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	7.63	7.94
Dep. Storage	(mm)=	1.00	0.00
Average Slope	(%)=	1.00	2.00
Length	(m)=	322.18	40.00
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 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
0.017	6.00	3.017	13.00	6.017	23.00	9.02	53.00
0.033	6.00	3.033	13.00	6.033	23.00	9.03	53.00
0.050	6.00	3.050	13.00	6.050	23.00	9.05	53.00
0.067	6.00	3.067	13.00	6.067	23.00	9.07	53.00
0.083	6.00	3.083	13.00	6.083	23.00	9.08	53.00
0.100	6.00	3.100	13.00	6.100	23.00	9.10	53.00
0.117	6.00	3.117	13.00	6.117	23.00	9.12	53.00
0.133	6.00	3.133	13.00	6.133	23.00	9.13	53.00
0.150	6.00	3.150	13.00	6.150	23.00	9.15	53.00
0.167	6.00	3.167	13.00	6.167	23.00	9.17	53.00
0.183	6.00	3.183	13.00	6.183	23.00	9.18	53.00
0.200	6.00	3.200	13.00	6.200	23.00	9.20	53.00
0.217	6.00	3.217	13.00	6.217	23.00	9.22	53.00
0.233	6.00	3.233	13.00	6.233	23.00	9.23	53.00
0.250	6.00	3.250	13.00	6.250	23.00	9.25	53.00
0.267	6.00	3.267	13.00	6.267	23.00	9.27	53.00
0.283	6.00	3.283	13.00	6.283	23.00	9.28	53.00
0.300	6.00	3.300	13.00	6.300	23.00	9.30	53.00
0.317	6.00	3.317	13.00	6.317	23.00	9.32	53.00
0.333	6.00	3.333	13.00	6.333	23.00	9.33	53.00
0.350	6.00	3.350	13.00	6.350	23.00	9.35	53.00
0.367	6.00	3.367	13.00	6.367	23.00	9.37	53.00
0.383	6.00	3.383	13.00	6.383	23.00	9.38	53.00
0.400	6.00	3.400	13.00	6.400	23.00	9.40	53.00
0.417	6.00	3.417	13.00	6.417	23.00	9.42	53.00
0.433	6.00	3.433	13.00	6.433	23.00	9.43	53.00
0.450	6.00	3.450	13.00	6.450	23.00	9.45	53.00
0.467	6.00	3.467	13.00	6.467	23.00	9.47	53.00
0.483	6.00	3.483	13.00	6.483	23.00	9.48	53.00
0.500	6.00	3.500	13.00	6.500	23.00	9.50	53.00
0.517	6.00	3.517	13.00	6.517	23.00	9.52	53.00
0.533	6.00	3.533	13.00	6.533	23.00	9.53	53.00
0.550	6.00	3.550	13.00	6.550	23.00	9.55	53.00
0.567	6.00	3.567	13.00	6.567	23.00	9.57	53.00
0.583	6.00	3.583	13.00	6.583	23.00	9.58	53.00
0.600	6.00	3.600	13.00	6.600	23.00	9.60	53.00
0.617	6.00	3.617	13.00	6.617	23.00	9.62	53.00
0.633	6.00	3.633	13.00	6.633	23.00	9.63	53.00
0.650	6.00	3.650	13.00	6.650	23.00	9.65	53.00
0.667	6.00	3.667	13.00	6.667	23.00	9.67	53.00
0.683	6.00	3.683	13.00	6.683	23.00	9.68	53.00
0.700	6.00	3.700	13.00	6.700	23.00	9.70	53.00
0.717	6.00	3.717	13.00	6.717	23.00	9.72	53.00
0.733	6.00	3.733	13.00	6.733	23.00	9.73	53.00
0.750	6.00	3.750	13.00	6.750	23.00	9.75	53.00
0.767	6.00	3.767	13.00	6.767	23.00	9.77	53.00
0.783	6.00	3.783	13.00	6.783	23.00	9.78	53.00
0.800	6.00	3.800	13.00	6.800	23.00	9.80	53.00
0.817	6.00	3.817	13.00	6.817	23.00	9.82	53.00
0.833	6.00	3.833	13.00	6.833	23.00	9.83	53.00
0.850	6.00	3.850	13.00	6.850	23.00	9.85	53.00
0.867	6.00	3.867	13.00	6.867	23.00	9.87	53.00
0.883	6.00	3.883	13.00	6.883	23.00	9.88	53.00
0.900	6.00	3.900	13.00	6.900	23.00	9.90	53.00
0.917	6.00	3.917	13.00	6.917	23.00	9.92	53.00
0.933	6.00	3.933	13.00	6.933	23.00	9.93	53.00
0.950	6.00	3.950	13.00	6.950	23.00	9.95	53.00
0.967	6.00	3.967	13.00	6.967	23.00	9.97	53.00
0.983	6.00	3.983	13.00	6.983	23.00	9.98	53.00
1.000	6.00	4.000	13.00	7.000	22.98	10.00	52.98
1.017	4.00	4.017	17.00	7.017	13.00	10.02	38.00
1.033	4.00	4.033	17.00	7.033	13.00	10.03	38.00
1.050	4.00	4.050	17.00	7.050	13.00	10.05	38.00
1.067	4.00	4.067	17.00	7.067	13.00	10.07	38.00
1.083	4.00	4.083	17.00	7.083	13.00	10.08	38.00

1.100	4.00	4.100	17.00	7.100	13.00	10.10	38.00
1.117	4.00	4.117	17.00	7.117	13.00	10.12	38.00
1.133	4.00	4.133	17.00	7.133	13.00	10.13	38.00
1.150	4.00	4.150	17.00	7.150	13.00	10.15	38.00
1.167	4.00	4.167	17.00	7.167	13.00	10.17	38.00
1.183	4.00	4.183	17.00	7.183	13.00	10.18	38.00
1.200	4.00	4.200	17.00	7.200	13.00	10.20	38.00
1.217	4.00	4.217	17.00	7.217	13.00	10.22	38.00
1.233	4.00	4.233	17.00	7.233	13.00	10.23	38.00
1.250	4.00	4.250	17.00	7.250	13.00	10.25	38.00
1.267	4.00	4.267	17.00	7.267	13.00	10.27	38.00
1.283	4.00	4.283	17.00	7.283	13.00	10.28	38.00
1.300	4.00	4.300	17.00	7.300	13.00	10.30	38.00
1.317	4.00	4.317	17.00	7.317	13.00	10.32	38.00
1.333	4.00	4.333	17.00	7.333	13.00	10.33	38.00
1.350	4.00	4.350	17.00	7.350	13.00	10.35	38.00
1.367	4.00	4.367	17.00	7.367	13.00	10.37	38.00
1.383	4.00	4.383	17.00	7.383	13.00	10.38	38.00
1.400	4.00	4.400	17.00	7.400	13.00	10.40	38.00
1.417	4.00	4.417	17.00	7.417	13.00	10.42	38.00
1.433	4.00	4.433	17.00	7.433	13.00	10.43	38.00
1.450	4.00	4.450	17.00	7.450	13.00	10.45	38.00
1.467	4.00	4.467	17.00	7.467	13.00	10.47	38.00
1.483	4.00	4.483	17.00	7.483	13.00	10.48	38.00
1.500	4.00	4.500	17.00	7.500	13.00	10.50	38.00
1.517	4.00	4.517	17.00	7.517	13.00	10.52	38.00
1.533	4.00	4.533	17.00	7.533	13.00	10.53	38.00
1.550	4.00	4.550	17.00	7.550	13.00	10.55	38.00
1.567	4.00	4.567	17.00	7.567	13.00	10.57	38.00
1.583	4.00	4.583	17.00	7.583	13.00	10.58	38.00
1.600	4.00	4.600	17.00	7.600	13.00	10.60	38.00
1.617	4.00	4.617	17.00	7.617	13.00	10.62	38.00
1.633	4.00	4.633	17.00	7.633	13.00	10.63	38.00
1.650	4.00	4.650	17.00	7.650	13.00	10.65	38.00
1.667	4.00	4.667	17.00	7.667	13.00	10.67	38.00
1.683	4.00	4.683	17.00	7.683	13.00	10.68	38.00
1.700	4.00	4.700	17.00	7.700	13.00	10.70	38.00
1.717	4.00	4.717	17.00	7.717	13.00	10.72	38.00
1.733	4.00	4.733	17.00	7.733	13.00	10.73	38.00
1.750	4.00	4.750	17.00	7.750	13.00	10.75	38.00
1.767	4.00	4.767	17.00	7.767	13.00	10.77	38.00
1.783	4.00	4.783	17.00	7.783	13.00	10.78	38.00
1.800	4.00	4.800	17.00	7.800	13.00	10.80	38.00
1.817	4.00	4.817	17.00	7.817	13.00	10.82	38.00
1.833	4.00	4.833	17.00	7.833	13.00	10.83	38.00
1.850	4.00	4.850	17.00	7.850	13.00	10.85	38.00
1.867	4.00	4.867	17.00	7.867	13.00	10.87	38.00
1.883	4.00	4.883	17.00	7.883	13.00	10.88	38.00
1.900	4.00	4.900	17.00	7.900	13.00	10.90	38.00
1.917	4.00	4.917	17.00	7.917	13.00	10.92	38.00
1.933	4.00	4.933	17.00	7.933	13.00	10.93	38.00
1.950	4.00	4.950	17.00	7.950	13.00	10.95	38.00
1.967	4.00	4.967	17.00	7.967	13.00	10.97	38.00
1.983	4.00	4.983	17.00	7.983	13.00	10.98	38.00
2.000	4.00	5.000	17.00	8.000	13.00	11.00	37.99
2.017	6.00	5.017	13.00	8.017	13.00	11.02	13.00
2.033	6.00	5.033	13.00	8.033	13.00	11.03	13.00
2.050	6.00	5.050	13.00	8.050	13.00	11.05	13.00
2.067	6.00	5.067	13.00	8.067	13.00	11.07	13.00
2.083	6.00	5.083	13.00	8.083	13.00	11.08	13.00
2.100	6.00	5.100	13.00	8.100	13.00	11.10	13.00
2.117	6.00	5.117	13.00	8.117	13.00	11.12	13.00
2.133	6.00	5.133	13.00	8.133	13.00	11.13	13.00
2.150	6.00	5.150	13.00	8.150	13.00	11.15	13.00
2.167	6.00	5.167	13.00	8.167	13.00	11.17	13.00
2.183	6.00	5.183	13.00	8.183	13.00	11.18	13.00
2.200	6.00	5.200	13.00	8.200	13.00	11.20	13.00
2.217	6.00	5.217	13.00	8.217	13.00	11.22	13.00
2.233	6.00	5.233	13.00	8.233	13.00	11.23	13.00
2.250	6.00	5.250	13.00	8.250	13.00	11.25	13.00
2.267	6.00	5.267	13.00	8.267	13.00	11.27	13.00
2.283	6.00	5.283	13.00	8.283	13.00	11.28	13.00
2.300	6.00	5.300	13.00	8.300	13.00	11.30	13.00
2.317	6.00	5.317	13.00	8.317	13.00	11.32	13.00
2.333	6.00	5.333	13.00	8.333	13.00	11.33	13.00
2.350	6.00	5.350	13.00	8.350	13.00	11.35	13.00
2.367	6.00	5.367	13.00	8.367	13.00	11.37	13.00
2.383	6.00	5.383	13.00	8.383	13.00	11.38	13.00
2.400	6.00	5.400	13.00	8.400	13.00	11.40	13.00
2.417	6.00	5.417	13.00	8.417	13.00	11.42	13.00
2.433	6.00	5.433	13.00	8.433	13.00	11.43	13.00
2.450	6.00	5.450	13.00	8.450	13.00	11.45	13.00
2.467	6.00	5.467	13.00	8.467	13.00	11.47	13.00
2.483	6.00	5.483	13.00	8.483	13.00	11.48	13.00
2.500	6.00	5.500	13.00	8.500	13.00	11.50	13.00
2.517	6.00	5.517	13.00	8.517	13.00	11.52	13.00
2.533	6.00	5.533	13.00	8.533	13.00	11.53	13.00
2.550	6.00	5.550	13.00	8.550	13.00	11.55	13.00
2.567	6.00	5.567	13.00	8.567	13.00	11.57	13.00
2.583	6.00	5.583	13.00	8.583	13.00	11.58	13.00
2.600	6.00	5.600	13.00	8.600	13.00	11.60	13.00
2.617	6.00	5.617	13.00	8.617	13.00	11.62	13.00
2.633	6.00	5.633	13.00	8.633	13.00	11.63	13.00
2.650	6.00	5.650	13.00	8.650	13.00	11.65	13.00
2.667	6.00	5.667	13.00	8.667	13.00	11.67	13.00
2.683	6.00	5.683	13.00	8.683	13.00	11.68	13.00
2.700	6.00	5.700	13.00	8.700	13.00	11.70	13.00
2.717	6.00	5.717	13.00	8.717	13.00	11.72	13.00
2.733	6.00	5.733	13.00	8.733	13.00	11.73	13.00
2.750	6.00	5.750	13.00	8.750	13.00	11.75	13.00
2.767	6.00	5.767	13.00	8.767	13.00	11.77	13.00
2.783	6.00	5.783	13.00	8.783	13.00	11.78	13.00
2.800	6.00	5.800	13.00	8.800	13.00	11.80	13.00
2.817	6.00	5.817	13.00	8.817	13.00	11.82	13.00
2.833	6.00	5.833	13.00	8.833	13.00	11.83	13.00
2.850	6.00	5.850	13.00	8.850	13.00	11.85	13.00
2.867	6.00	5.867	13.00	8.867	13.00	11.87	13.00
2.883	6.00	5.883	13.00	8.883	13.00	11.88	13.00
2.900	6.00	5.900	13.00	8.900	13.00	11.90	13.00
2.917	6.00	5.917	13.00	8.917	13.00	11.92	13.00
2.933	6.00	5.933	13.00	8.933	13.00	11.93	13.00
2.950	6.00	5.950	13.00	8.950	13.00	11.95	13.00
2.967	6.00	5.967	13.00	8.967	13.00	11.97	13.00
2.983	6.00	5.983	13.00	8.983	13.00	11.98	13.00
3.000	6.00	6.000	13.01	9.000	13.08	12.00	13.00

Max.Eff.Inten.(mm/hr)=	53.00	52.53	
over (min)	7.00	16.00	
Storage Coeff. (min)=	6.64 (ii)	15.78 (ii)	
Unit Hyd. Tpeak (min)=	7.00	16.00	
Unit Hyd. peak (cms)=	0.17	0.07	
			TOTALS
PEAK FLOW (cms)=	1.12	1.12	2.245 (iii)
TIME TO PEAK (hrs)=	10.00	10.03	10.00
RUNOFF VOLUME (mm)=	210.99	196.92	203.83
TOTAL RAINFALL (mm)=	212.00	212.00	212.00
RUNOFF COEFFICIENT =	1.00	0.93	0.96

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 94.0 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.

```
================================================================================
=========================


       V    V   I    SSSSS  U   U    A    L              (v 6.2.2019)
       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

        OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
       O   O    T      T    H   H   Y Y   MM MM  O   O
       O   O    T      T    H   H    Y    M   M  O   O
        OOO     T      T    H   H    Y    M   M   OOO
Developed and Distributed by Smart City Water Inc
Copyright 2007 - 2022 Smart City Water Inc
All rights reserved.

                  *****  S U M M A R Y   O U T P U T  *****


  Input   filename: C:\Program Files (x86)\Visual OTTHYMO 6.2\VO2\voin.dat

  Output  filename:
C:\Users\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\14b5fc
3d-f290-4ac8-84a1-89c5acb7f969\scenari
  Summary filename:
C:\Users\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\14b5fc
3d-f290-4ac8-84a1-89c5acb7f969\scenari


DATE: 01-27-2026                          TIME: 02:07:38

USER:


COMMENTS: _____________________________________________________


  ************************************************
  ** SIMULATION : 1 - 25MM4HRC_10min Edited 201 **
  ************************************************

  W/E COMMAND             HYD ID   DT    AREA  ' Qpeak Tpeak   R.V. R.C.   Qbase
                                   min     ha   '  cms   hrs     mm          cms

      START @  0.00 hrs
      --------------------
    READ STORM                10.0
    [ Ptot= 25.00 mm ]
    fname :
C:\Users\kong\AppData\Local\Temp\4b24bae0-43e7-4523-b2f3-4ca6a98d7aa8\cb44d379-39a
8-4907-8998-c426d2
    remark: 25MM4HRC_10min Edited 2012

*
 ** CALIB STANDHYD       0001  1  1.0   15.57    0.79  1.55  14.90 0.60   0.000
    [I%=49.0:S%= 2.00]
*
    READ STORM                10.0
    [ Ptot= 25.00 mm ]
    fname :
C:\Users\kong\AppData\Local\Temp\4b24bae0-43e7-4523-b2f3-4ca6a98d7aa8\cb44d379-39a
8-4907-8998-c426d2
    remark: 25MM4HRC_10min Edited 2012

*
 ** CALIB STANDHYD       0002  1  1.0   15.57    0.93  1.57  19.49 0.78   0.000
    [I%=49.0:S%= 2.00]
*
================================================================================
=========================


       V    V   I    SSSSS  U   U    A    L              (v 6.2.2019)
       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

        OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
       O   O    T      T    H   H   Y Y   MM MM  O   O
       O   O    T      T    H   H    Y    M   M  O   O
        OOO     T      T    H   H    Y    M   M   OOO
Developed and Distributed by Smart City Water Inc
Copyright 2007 - 2022 Smart City Water Inc
All rights reserved.

                  *****  S U M M A R Y   O U T P U T  *****


  Input   filename: C:\Program Files (x86)\Visual OTTHYMO 6.2\VO2\voin.dat

  Output  filename:
C:\Users\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\2d409a
30-c830-45b1-9e91-fc6484da53ba\scenari
  Summary filename:
C:\Users\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\2d409a
30-c830-45b1-9e91-fc6484da53ba\scenari


DATE: 01-27-2026                          TIME: 02:07:38

USER:


COMMENTS: _____________________________________________________


  ************************************************
  ** SIMULATION : 2 - 2-Year 24hr Chic - Milton **
  ************************************************

  W/E COMMAND             HYD ID   DT    AREA  ' Qpeak Tpeak   R.V. R.C.   Qbase
                                   min     ha   '  cms   hrs     mm          cms

      START @  0.00 hrs
      --------------------
    CHIC STORM                10.0
    [ Ptot= 47.70 mm ]
*
 ** CALIB STANDHYD       0001  1  1.0   15.57    1.56  8.05  33.51 0.70   0.000
    [I%=49.0:S%= 2.00]
*
    CHIC STORM                10.0
    [ Ptot= 47.70 mm ]
*
 ** CALIB STANDHYD       0002  1  1.0   15.57    1.84  8.05  41.04 0.86   0.000
    [I%=49.0:S%= 2.00]
*
================================================================================
=========================


       V    V   I    SSSSS  U   U    A    L              (v 6.2.2019)
       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

        OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
       O   O    T      T    H   H   Y Y   MM MM  O   O
       O   O    T      T    H   H    Y    M   M  O   O
        OOO     T      T    H   H    Y    M   M   OOO
Developed and Distributed by Smart City Water Inc
Copyright 2007 - 2022 Smart City Water Inc
All rights reserved.

                  *****  S U M M A R Y   O U T P U T  *****


  Input   filename: C:\Program Files (x86)\Visual OTTHYMO 6.2\VO2\voin.dat

  Output  filename:
C:\Users\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\f84224
d5-5430-4893-81af-28446067d191\scenari
  Summary filename:
C:\Users\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\f84224
d5-5430-4893-81af-28446067d191\scenari


DATE: 01-27-2026                          TIME: 02:07:39

USER:


COMMENTS: _____________________________________________________


  ************************************************
  ** SIMULATION : 3 - 5-Year 24hr Chic- Milton  **
  ************************************************

  W/E COMMAND             HYD ID   DT    AREA  ' Qpeak Tpeak   R.V. R.C.   Qbase
                                   min     ha   '  cms   hrs     mm          cms

      START @  0.00 hrs
      --------------------
    CHIC STORM                10.0
    [ Ptot= 67.05 mm ]
*
 ** CALIB STANDHYD       0001  1  1.0   15.57    2.28  8.03  50.73 0.76   0.000
    [I%=49.0:S%= 2.00]
*
    CHIC STORM                10.0
    [ Ptot= 67.05 mm ]
*
 ** CALIB STANDHYD       0002  1  1.0   15.57    2.63  8.03  59.90 0.89   0.000
    [I%=49.0:S%= 2.00]
*
================================================================================
=========================


       V    V   I    SSSSS  U   U    A    L              (v 6.2.2019)
       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

       OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
      O   O    T      T    H   H   Y Y   MM MM  O   O
      O   O    T      T    H   H    Y    M   M  O   O
       OOO     T      T    H   H    Y    M   M   OOO
Developed and Distributed by Smart City Water Inc
Copyright 2007 - 2022 Smart City Water Inc
All rights reserved.


                  *****  S U M M A R Y   O U T P U T  *****


  Input   filename: C:\Program Files (x86)\Visual OTTHYMO 6.2\VO2\voin.dat

  Output  filename:
C:\Users\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\c57b45
0a-05dd-434b-846b-ea0b12d119dd\scenari
  Summary filename:
C:\Users\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\c57b45
0a-05dd-434b-846b-ea0b12d119dd\scenari


DATE: 01-27-2026                          TIME: 02:07:39

USER:


COMMENTS: _____________________________________________________


  ************************************************
  ** SIMULATION : 4 - 10-Year 24hr Chic - Milto **
  ************************************************

  W/E COMMAND             HYD ID   DT    AREA  ' Qpeak Tpeak   R.V. R.C.   Qbase
                                  min     ha   '  cms   hrs     mm          cms

     START @  0.00 hrs
     --------------------
    CHIC STORM                10.0
    [ Ptot= 80.06 mm ]
*
 ** CALIB STANDHYD       0001  1  1.0   15.57    2.81  8.03  62.70 0.78   0.000
    [I%=49.0:S%= 2.00]
*
    CHIC STORM                10.0
    [ Ptot= 80.06 mm ]
```

```
     START @  0.00 hrs
     --------------------
    CHIC STORM                10.0
    [ Ptot= 97.01 mm ]
*
 ** CALIB STANDHYD       0001  1  1.0   15.57    3.53  8.03  78.59 0.81   0.000
    [I%=49.0:S%= 2.00]
*
    CHIC STORM                10.0
    [ Ptot= 97.01 mm ]
*
 ** CALIB STANDHYD       0002  1  1.0   15.57    4.00  8.03  89.43 0.92   0.000
    [I%=49.0:S%= 2.00]
*
 FINISH

================================================================================
========================

================================================================================
========================


       V    V   I    SSSSS  U   U    A    L             (v 6.2.2019)
       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

       OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
      O   O    T      T    H   H   Y Y   MM MM  O   O
      O   O    T      T    H   H    Y    M   M  O   O
       OOO     T      T    H   H    Y    M   M   OOO
Developed and Distributed by Smart City Water Inc
Copyright 2007 - 2022 Smart City Water Inc
All rights reserved.


                  *****  S U M M A R Y   O U T P U T  *****


  Input   filename: C:\Program Files (x86)\Visual OTTHYMO 6.2\VO2\voin.dat

  Output  filename:
C:\Users\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\655108
37-336f-46a4-ace2-ff43b7a2b95e\scenari
  Summary filename:
C:\Users\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\655108
37-336f-46a4-ace2-ff43b7a2b95e\scenari
```

```
*
 ** CALIB STANDHYD       0002  1  1.0   15.57    3.22  8.03  72.69 0.91   0.000
    [I%=49.0:S%= 2.00]
*
================================================================================
========================


       V    V   I    SSSSS  U   U    A    L             (v 6.2.2019)
       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

       OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
      O   O    T      T    H   H   Y Y   MM MM  O   O
      O   O    T      T    H   H    Y    M   M  O   O
       OOO     T      T    H   H    Y    M   M   OOO
Developed and Distributed by Smart City Water Inc
Copyright 2007 - 2022 Smart City Water Inc
All rights reserved.


                  *****  S U M M A R Y   O U T P U T  *****


  Input   filename: C:\Program Files (x86)\Visual OTTHYMO 6.2\VO2\voin.dat

  Output  filename:
C:\Users\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\acddb8
ba-9d74-4cd2-a420-08c4f24a6bdf\scenari
  Summary filename:
C:\Users\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\acddb8
ba-9d74-4cd2-a420-08c4f24a6bdf\scenari


DATE: 01-27-2026                          TIME: 02:07:39

USER:


COMMENTS: _____________________________________________________


  ************************************************
  ** SIMULATION : 5 - 25-Year 24hr Chic - Milto **
  ************************************************

  W/E COMMAND             HYD ID   DT    AREA  ' Qpeak Tpeak   R.V. R.C.   Qbase
                                  min     ha   '  cms   hrs     mm          cms
```

```
DATE: 01-27-2026                          TIME: 02:07:39

USER:


COMMENTS: _____________________________________________________


  ************************************************
  ** SIMULATION : 6 - 50-Year 24hr Chic - Milto **
  ************************************************

  W/E COMMAND             HYD ID   DT    AREA  ' Qpeak Tpeak   R.V. R.C.   Qbase
                                  min     ha   '  cms   hrs     mm          cms

     START @  0.00 hrs
     --------------------
    CHIC STORM                10.0
    [ Ptot=110.01 mm ]
*
 ** CALIB STANDHYD       0001  1  1.0   15.57    4.03  8.03  90.95 0.83   0.000
    [I%=49.0:S%= 2.00]
*
    CHIC STORM                10.0
    [ Ptot=110.01 mm ]
*
 ** CALIB STANDHYD       0002  1  1.0   15.57    4.51  8.03 102.31 0.93   0.000
    [I%=49.0:S%= 2.00]
*
================================================================================
========================


       V    V   I    SSSSS  U   U    A    L             (v 6.2.2019)
       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

       OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
      O   O    T      T    H   H   Y Y   MM MM  O   O
      O   O    T      T    H   H    Y    M   M  O   O
       OOO     T      T    H   H    Y    M   M   OOO
Developed and Distributed by Smart City Water Inc
Copyright 2007 - 2022 Smart City Water Inc
All rights reserved.
```

***** S U M M A R Y O U T P U T *****

  Input filename: C:\Program Files (x86)\Visual OTTHYMO 6.2\VO2\voin.dat

  Output filename:
C:\Users\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\a1f093
3c-393c-4377-b24b-b718dd77ff7f\scenari
  Summary filename:
C:\Users\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\a1f093
3c-393c-4377-b24b-b718dd77ff7f\scenari

DATE: 01-27-2026   TIME: 02:07:39

USER:

COMMENTS: _____

  ****
  ** SIMULATION : 7 - 100-year 24hr Chic - Milt **
  ****

  W/E COMMAND   HYD ID   DT   AREA ' Qpeak Tpeak   R.V. R.C.   Qbase
                                   min   ha   ' cms   hrs   mm   cms

      START @ 0.00 hrs

    CHIC STORM   10.0
    [Ptot=122.41 mm]
*
 ** CALIB STANDHYD   0001 1 1.0   15.57   4.64 8.03 102.82 0.84   0.000
    [I%=49.0:S%= 2.00]
*
    CHIC STORM   10.0
    [Ptot=122.41 mm]
*
 ** CALIB STANDHYD   0002 1 1.0   15.57   5.15 8.03 114.61 0.94   0.000
    [I%=49.0:S%= 2.00]
*
==
========================

       V   V   I   SSSSS U   U   A   L   (v 6.2.2019)
       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

    [I%=49.0:S%= 2.00]
*
    READ STORM   60.0
    [Ptot=212.00 mm]
    fname :
C:\Users\kong\AppData\Local\Temp\4b24bae0-43e7-4523-b2f3-4ca6a98d7aa8\008167ef-3d9
7-4248-b2f7-35530a
    remark: HAZEL

*
 ** CALIB STANDHYD   0002 1 1.0   15.57   2.24 10.00 203.83 0.96   0.000
    [I%=49.0:S%= 2.00]
*

 VV   I   SSSSS UUUUU A   A LLLLL

  OOO   TTTTT TTTTT H   H Y   Y M   M   OOO   TM
 O   O   T   T   H   H   Y Y   MM MM O   O
 O   O   T   T   H   H   Y   M   M O   O
  OOO   T   T   H   H   Y   M   M   OOO
Developed and Distributed by Smart City Water Inc
Copyright 2007 - 2022 Smart City Water Inc
All rights reserved.

***** S U M M A R Y O U T P U T *****

  Input filename: C:\Program Files (x86)\Visual OTTHYMO 6.2\VO2\voin.dat

  Output filename:
C:\Users\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\35236c
80-b07c-4d96-84f7-935ed0b37f83\scenari
  Summary filename:
C:\Users\kong\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\35236c
80-b07c-4d96-84f7-935ed0b37f83\scenari

DATE: 01-27-2026   TIME: 02:07:38

USER:

COMMENTS: _____

  ****
  ** SIMULATION : 8 - Hazel   **
  ****

  W/E COMMAND   HYD ID   DT   AREA ' Qpeak Tpeak   R.V. R.C.   Qbase
                                   min   ha   ' cms   hrs   mm   cms

      START @ 0.00 hrs

    READ STORM   60.0
    [Ptot=212.00 mm]
    fname :
C:\Users\kong\AppData\Local\Temp\4b24bae0-43e7-4523-b2f3-4ca6a98d7aa8\008167ef-3d9
7-4248-b2f7-35530a
    remark: HAZEL

*
 ** CALIB STANDHYD   0001 1 1.0   15.57   2.19 10.00 190.17 0.90   0.000

```
================================================================================
========================

       V    V   I    SSSSS  U   U    A    L             (v 6.2.2019)
       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

        OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
       O   O    T      T    H   H   Y Y   MM MM  O   O
       O   O    T      T    H   H    Y    M   M  O   O
        OOO     T      T    H   H    Y    M   M   OOO
Developed and Distributed by Smart City Water Inc
Copyright 2007 - 2022 Smart City Water Inc
All rights reserved.


                  *****  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\jannaormond\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\
5d5c1358-fe67-469d-bd30-25a5eb5cbd2a\
  Summary filename:
C:\Users\jannaormond\AppData\Local\Civica\VH5\3343a733-fb9e-41c8-9272-7af20af75cda\
5d5c1358-fe67-469d-bd30-25a5eb5cbd2a\


DATE: 03-10-2025                          TIME: 09:56:01

USER:



COMMENTS: _____________________________________________________________


--------------------------------------------------------------------------------
-------------------------
  ************************************************
  ** SIMULATION : Hazel                         **
  ************************************************


--------------------
|    READ STORM    |    Filename: C:\Users\jannaormond\AppD
|                  |              ata\Local\Temp\
```

```
|                  |              5e1d8e1f-07e7-4e4f-b2ba-d02c474b8865\008167ef
| Ptotal=212.00 mm |    Comments: HAZEL
--------------------
                TIME    RAIN |  TIME    RAIN |'  TIME    RAIN |  TIME    RAIN
                 hrs   mm/hr |   hrs   mm/hr |'   hrs   mm/hr |   hrs   mm/hr
               0.00    6.00 |  3.00   13.00 |  6.00   23.00 |  9.00   53.00
               1.00    4.00 |  4.00   17.00 |  7.00   13.00 | 10.00   38.00
               2.00    6.00 |  5.00   13.00 |  8.00   13.00 | 11.00   13.00

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


--------------------
| CALIB            |
| STANDHYD (  0001)|   Area    (ha)=  14.86
|ID= 1 DT= 5.0 min |   Total Imp(%)=  50.00   Dir. Conn.(%)=  50.00
--------------------
                                IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=        7.43          7.43
     Dep. Storage     (mm)=        1.00          0.00
     Average Slope     (%)=        1.00          2.00
     Length            (m)=      314.75         40.00
     Mannings n             =     0.013         0.250

         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    6.00 | 3.083   13.00 | 6.083   23.00 |  9.08   53.00
               0.167    6.00 | 3.167   13.00 | 6.167   23.00 |  9.17   53.00
               0.250    6.00 | 3.250   13.00 | 6.250   23.00 |  9.25   53.00
               0.333    6.00 | 3.333   13.00 | 6.333   23.00 |  9.33   53.00
               0.417    6.00 | 3.417   13.00 | 6.417   23.00 |  9.42   53.00
               0.500    6.00 | 3.500   13.00 | 6.500   23.00 |  9.50   53.00
               0.583    6.00 | 3.583   13.00 | 6.583   23.00 |  9.58   53.00
               0.667    6.00 | 3.667   13.00 | 6.667   23.00 |  9.67   53.00
               0.750    6.00 | 3.750   13.00 | 6.750   23.00 |  9.75   53.00
               0.833    6.00 | 3.833   13.00 | 6.833   23.00 |  9.83   53.00
               0.917    6.00 | 3.917   13.00 | 6.917   23.00 |  9.92   53.00
               1.000    6.00 | 4.000   13.00 | 7.000   23.00 | 10.00   53.00
               1.083    4.00 | 4.083   17.00 | 7.083   13.00 | 10.08   38.00
               1.167    4.00 | 4.167   17.00 | 7.167   13.00 | 10.17   38.00
               1.250    4.00 | 4.250   17.00 | 7.250   13.00 | 10.25   38.00
               1.333    4.00 | 4.333   17.00 | 7.333   13.00 | 10.33   38.00
               1.417    4.00 | 4.417   17.00 | 7.417   13.00 | 10.42   38.00
               1.500    4.00 | 4.500   17.00 | 7.500   13.00 | 10.50   38.00
               1.583    4.00 | 4.583   17.00 | 7.583   13.00 | 10.58   38.00
               1.667    4.00 | 4.667   17.00 | 7.667   13.00 | 10.67   38.00
               1.750    4.00 | 4.750   17.00 | 7.750   13.00 | 10.75   38.00
```

```
               1.833    4.00 | 4.833   17.00 | 7.833   13.00 | 10.83   38.00
               1.917    4.00 | 4.917   17.00 | 7.917   13.00 | 10.92   38.00
               2.000    4.00 | 5.000   17.00 | 8.000   13.00 | 11.00   38.00
               2.083    6.00 | 5.083   13.00 | 8.083   13.00 | 11.08   13.00
               2.167    6.00 | 5.167   13.00 | 8.167   13.00 | 11.17   13.00
               2.250    6.00 | 5.250   13.00 | 8.250   13.00 | 11.25   13.00
               2.333    6.00 | 5.333   13.00 | 8.333   13.00 | 11.33   13.00
               2.417    6.00 | 5.417   13.00 | 8.417   13.00 | 11.42   13.00
               2.500    6.00 | 5.500   13.00 | 8.500   13.00 | 11.50   13.00
               2.583    6.00 | 5.583   13.00 | 8.583   13.00 | 11.58   13.00
               2.667    6.00 | 5.667   13.00 | 8.667   13.00 | 11.67   13.00
               2.750    6.00 | 5.750   13.00 | 8.750   13.00 | 11.75   13.00
               2.833    6.00 | 5.833   13.00 | 8.833   13.00 | 11.83   13.00
               2.917    6.00 | 5.917   13.00 | 8.917   13.00 | 11.92   13.00
               3.000    6.00 | 6.000   13.00 | 9.000   13.00 | 12.00   13.00

     Max.Eff.Inten.(mm/hr)=      53.00        52.53
               over (min)        5.00        20.00
     Storage Coeff.  (min)=      6.55 (ii)   15.68 (ii)
     Unit Hyd. Tpeak (min)=      5.00        20.00
     Unit Hyd. peak  (cms)=      0.18         0.07
                                                    *TOTALS*
     PEAK FLOW       (cms)=      1.09         1.05          2.143 (iii)
     TIME TO PEAK    (hrs)=     10.00        10.00          10.00
     RUNOFF VOLUME    (mm)=    211.00       196.94         203.97
     TOTAL RAINFALL   (mm)=    212.00       212.00         212.00
     RUNOFF COEFFICIENT   =      1.00         0.93           0.96


       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
           CN*  =  94.0    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            |
| STANDHYD (  0002)|   Area    (ha)=  18.14
|ID= 1 DT= 5.0 min |   Total Imp(%)=  88.00   Dir. Conn.(%)=  88.00
--------------------
                                IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=       15.96         2.18
     Dep. Storage     (mm)=        1.00         0.00
     Average Slope     (%)=        1.00         2.00
     Length            (m)=      347.75        40.00
     Mannings n             =     0.013        0.250

         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    6.00 | 3.083   13.00 | 6.083   23.00 |  9.08   53.00
               0.167    6.00 | 3.167   13.00 | 6.167   23.00 |  9.17   53.00
               0.250    6.00 | 3.250   13.00 | 6.250   23.00 |  9.25   53.00
               0.333    6.00 | 3.333   13.00 | 6.333   23.00 |  9.33   53.00
               0.417    6.00 | 3.417   13.00 | 6.417   23.00 |  9.42   53.00
               0.500    6.00 | 3.500   13.00 | 6.500   23.00 |  9.50   53.00
               0.583    6.00 | 3.583   13.00 | 6.583   23.00 |  9.58   53.00
               0.667    6.00 | 3.667   13.00 | 6.667   23.00 |  9.67   53.00
               0.750    6.00 | 3.750   13.00 | 6.750   23.00 |  9.75   53.00
               0.833    6.00 | 3.833   13.00 | 6.833   23.00 |  9.83   53.00
               0.917    6.00 | 3.917   13.00 | 6.917   23.00 |  9.92   53.00
               1.000    6.00 | 4.000   13.00 | 7.000   23.00 | 10.00   53.00
               1.083    4.00 | 4.083   17.00 | 7.083   13.00 | 10.08   38.00
               1.167    4.00 | 4.167   17.00 | 7.167   13.00 | 10.17   38.00
               1.250    4.00 | 4.250   17.00 | 7.250   13.00 | 10.25   38.00
               1.333    4.00 | 4.333   17.00 | 7.333   13.00 | 10.33   38.00
               1.417    4.00 | 4.417   17.00 | 7.417   13.00 | 10.42   38.00
               1.500    4.00 | 4.500   17.00 | 7.500   13.00 | 10.50   38.00
               1.583    4.00 | 4.583   17.00 | 7.583   13.00 | 10.58   38.00
               1.667    4.00 | 4.667   17.00 | 7.667   13.00 | 10.67   38.00
               1.750    4.00 | 4.750   17.00 | 7.750   13.00 | 10.75   38.00
               1.833    4.00 | 4.833   17.00 | 7.833   13.00 | 10.83   38.00
               1.917    4.00 | 4.917   17.00 | 7.917   13.00 | 10.92   38.00
               2.000    4.00 | 5.000   17.00 | 8.000   13.00 | 11.00   38.00
               2.083    6.00 | 5.083   13.00 | 8.083   13.00 | 11.08   13.00
               2.167    6.00 | 5.167   13.00 | 8.167   13.00 | 11.17   13.00
               2.250    6.00 | 5.250   13.00 | 8.250   13.00 | 11.25   13.00
               2.333    6.00 | 5.333   13.00 | 8.333   13.00 | 11.33   13.00
               2.417    6.00 | 5.417   13.00 | 8.417   13.00 | 11.42   13.00
               2.500    6.00 | 5.500   13.00 | 8.500   13.00 | 11.50   13.00
               2.583    6.00 | 5.583   13.00 | 8.583   13.00 | 11.58   13.00
               2.667    6.00 | 5.667   13.00 | 8.667   13.00 | 11.67   13.00
               2.750    6.00 | 5.750   13.00 | 8.750   13.00 | 11.75   13.00
               2.833    6.00 | 5.833   13.00 | 8.833   13.00 | 11.83   13.00
               2.917    6.00 | 5.917   13.00 | 8.917   13.00 | 11.92   13.00
               3.000    6.00 | 6.000   13.00 | 9.000   13.00 | 12.00   13.00

     Max.Eff.Inten.(mm/hr)=      53.00        52.53
               over (min)        5.00        15.00
     Storage Coeff.  (min)=      6.96 (ii)   11.06 (ii)
     Unit Hyd. Tpeak (min)=      5.00        15.00
     Unit Hyd. peak  (cms)=      0.17         0.09
                                                    *TOTALS*
     PEAK FLOW       (cms)=      2.35         0.32          2.665 (iii)
     TIME TO PEAK    (hrs)=     10.00        10.00          10.00
     RUNOFF VOLUME    (mm)=    211.00       196.94         209.31
```

```
     TOTAL RAINFALL   (mm)=     212.00       212.00         212.00
     RUNOFF COEFFICIENT   =       1.00         0.93           0.99


       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
            CN*  =  94.0    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.

--------------------------------------------------------------------------------
-------------------
| RESERVOIR(  0003)|     OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT=  5.0 min     |     OUTFLOW    STORAGE   |  OUTFLOW    STORAGE
-------------------      (cms)     (ha.m.)   |   (cms)     (ha.m.)
                          0.0000      0.0000   |    2.1430      0.4105
                          1.5001      0.2100   |    0.0000      0.0000

                               AREA     QPEAK     TPEAK       R.V.
                               (ha)     (cms)     (hrs)       (mm)
   INFLOW : ID= 2 (  0002)     18.140      2.665     10.00     209.31
   OUTFLOW: ID= 1 (  0003)     18.140      2.143     10.17     209.31

                  PEAK   FLOW   REDUCTION [Qout/Qin](%)= 80.39
                  TIME SHIFT OF PEAK FLOW         (min)= 10.00
                  MAXIMUM  STORAGE   USED       (ha.m.)=  0.4105

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

 FINISH
================================================================================
========================
```

URBANTECH

SWM POND DESIGN CALCULATION - POND
TARGET SUMMARY

Project Name: 150 Steeles Avenue East
Municipality: Town of Milton
Project No.: 21-678
Date: 27-Jan-26

Prepared by: J.P.O

POND

Area	18.09
Imperviosuness	91%

Wet Pond *(Per MOE Stormwater Management Planning and Design Manual 2003, Table 3.2)*

Impervious Level	Water Quality Storage Vol	Extended Detention	Permanent Pool
(%)	m^3/ha	m^3/ha	m^3/ha
35%	140	40	100
55%	190	40	150
70%	225	40	185
85%	250	40	210
Interpolated Storage Requirement			
91.4%	261	40	**221**

	Area [ha]	IMP%
Total Contributing Area	18.09	91%
Quantity Control Only	18.09	91%
Quality Control Only	18.09	91%

VO SCHEMATIC - EXISTING

Name	Pre - CNII
Runoff AREA [ha]	15.570
Runoff Peak [m^3/s]	4.642

1

Name	Pre - CNIII
Runoff AREA [ha]	15.570
Runoff Peak [m^3/s]	5.154

2

VO SCHEMATIC - PROPOSED