Ottawa. ON
Paris. ON
Gatineau. QC
Montréal. QC
Québec. QC

JFSA
WATER RESOURCES AND ENVIRONMENTAL CONSULTANTS

6160 Thunder Road & 5368 Boundary Road: Stormwater Management Report

November 2024

Prepared For:

Thunder Road Limited Partnership
250 City Centre Avenue, Suite 801,
Ottawa, Ontario,
K1R 6K7

Prepared By:

JFSA Canada Inc.
52 Springbrook Drive,
Ottawa, ON
K2S 1B9
Tel: 613-836-3884 Fax: 613-836-0332

6160 THUNDER ROAD & 5368 BOUNDARY ROAD: STORMWATER MANAGEMENT REPORT

In the City of Ottawa, Ontario

NOVEMBER 2024

Prepared for:
Thunder Road Limited Partnership

Prepared by:

Jonathon Burnett, P.Eng
(*J.F. Sabourin and Associates Inc.*)

Rationale for Update

This report is an update of the August 2024 "6150 Thunder Road: Stormwater Management Report" by JFSA Canada Inc. The report was updated to address review comments received from South Nation Conservation on September 15, 2024, as well as review comments from the City of Ottawa received on November 1, 2024. As a part of these updates, the grading and storm sewer network for the east SWM pond located along Boundary Road has been raised to ensure that the SWM pond outlet is above the invert of the receiving roadside ditch, to prevent any issues with regards to the pond's operations due to backwater on the ditch. At the request of the City, additional tables and figures have been provided and minor refinements to the report text for clarity.

.

TABLE OF CONTENTS:

FIGURES:

TABLES:

APPENDICES:

1 Introduction

JFSA Canada Inc (JFSA) was commissioned by Thunder Road Limited Partnership to complete the stormwater management analysis for the proposed industrial development located at 6160 Thunder Road and 5368 Boundary Road. The total site is **15.16 ha**, however, approximately **3.93 ha** of the development site will either remain unchanged and drain uncontrolled or fall within the O1R zone. Therefore, the drainage area for the development site, for the purposes of this study, is approximately **11.23 ha**. This area will consist primarily of parking spaces, accompanied by an office and a supplementary building. Currently, the site is undeveloped and covered in vegetation, with several small drainage channels that ultimately flow into the Bear Brook tributary; under the proposed conditions, the site will still discharge into the Bear Brook tributary. However, the development will implement various stormwater management (SWM) solutions to ensure that there are no increases in peak flows compared to the existing conditions and that there will be no negative impacts on the existing watercourse with regard to flooding and erosion. **Figure 1** below provides an approximate outline of the proposed development's extent and location. This document will outline and evaluate the different stormwater management solutions proposed for this site.

Figure 1: Development Overview

1.1 Background Data / Information

The following section outlines the background data and information used to support and supplement this study:

1.1.1 Topographic Survey

A detailed topographic survey of the site was completed by Annis, O'Sullivan Vollebekk LTD (AOV) in March 2021. This topographic information has been merged with the City of Ottawa LiDAR to determine the pre-development conditions of the site.

1.1.2 LiDAR

LiDAR data was acquired from the City of Ottawa to supplement locations where there is insufficient topographic detail included in the survey by AOV. This LiDAR was merged with AOV's survey to provide a complete picture of the topography throughout the development area.

1.1.3 Existing Reports

The following background documents were reviewed in preparing this report:

- Bear Brook and Tributaries Flood Hazard Mapping Report, SNC, March 2022
- 6150 Thunder Road: Floodplain Mapping, JFSA, July 2021
- 5368 Boundary Road and 6150 Thunder Road Functional Serviceability Report, LRL, December 2020
- Environmental Impact Statement, 6150 Thunder Road, Ottawa, Kilgore & Associates LTD, December 2020
- The City of Ottawa Technical Bulletin ISTB-2018-04, City of Ottawa, June 2018.
- The City of Ottawa Technical Bulletin PIEDTB-2016-01, City of Ottawa, September 2016.
- Technical Bulletin ISDTB-2014-01, Revisions to Ottawa Design Guidelines – Sewer, City of Ottawa, February 2014.
- City of Ottawa Sewer Design Guidelines, City of Ottawa, October 2012.
- Erosion and Sediment Control Guidelines for Urban Construction, Conservation Halton et al., December 2006.
- Stormwater Management Planning and Design Manual, Ministry of the Environment, March 2003.

2 Existing Conditions

Given that the site under existing conditions is a large natural undeveloped area, it was determined that the SWMHYMO modelling software would be the most suitable hydrologic modelling program to use to determine the pre-development flows. The following outlines the derivation of key model parameters used to represent these existing lands, and in turn, determine the post-development target release rates.

2.1.1 Drainage Areas

As identified above, LiDAR data was merged with the detailed topographic survey of the site completed by AOV to derive a single Digital Terrain Model (DTM). This data was imported into GIS software where watershed delineation algorithms were applied. **Figure A1 in Appendix A** provides a visual overview of the existing drainage areas within the study area. Note that the majority of the site drains directly to the Bear Brook tributary, with a small portion of the site in the southeast corner draining to a roadside ditch along Boundary Road before discharging to the Bear Brook tributary.

2.1.2 Land Use

Land use data has been taken from Land Information Ontario's (LIO) Southern Ontario Land Resource Information System (SOLRIS) data package, which is a primary data layer that provides a comprehensive, standardized, landscape-level inventory of natural, rural and urban lands throughout southern Ontario. This data was discretized based on the respective subcatchments. **Figure A2 in Appendix A** provides a visual overview of the respective land use data for each of the subcatchments within the study area. Under existing conditions, the site primarily consists of plantation and treed swamplands.

2.1.3 Soil/Infiltration Data

Soil data within the study area has been taken from the Soil Survey Complex Data available on Land Information Ontario (LIO). **Figure A3 in Appendix A** provides a visual overview of the respective soil type data for each of the subcatchments within the study area. Under existing conditions, the site primarily consists of Allendale and Cheney Soils both of which are Loamy Fine Sand soils (Hydrologic Soil Type C).

2.1.4 Curve Number (CN)

Based on the underlying Land Use Type and Soil Classification at each location within a subcatchment, a Curve Number (CN) was calculated, based on applicable values outlined in **Tables A2 and A3** in the SWMHYMO Manual. Each Curve Number was then weighted based on the total area within a given subcatchment to determine the weighted CN for that subcatchment. **Table A1 in Appendix A** provides a full summary of the CN calculations for each of the pre-development subcatchments.

2.1.5 Time to Peak (t_p)

The time-to-peak value for each of the subcatchments has been calculated based on existing topography. Flow paths have been discretized based on the topographic data using GIS tools and the longest major flow path within each subcatchment identified; refer to **Figure A4 in Appendix A** for the flow paths discretized for each subcatchment. The upstream and downstream topographic elevations and flow lengths were identified for each subcatchment and used in the calculations. For these natural subcatchments, the Federal Aviation Administration (FFA) method was determined to be the most appropriate method to calculate the Time to Peak. Full details of these calculations have been provided in **Table A2 in Appendix A**, along with other time-to-peak values using alternative t_p calculation methods.

2.2 Results

Table 1 below outlines the peak flow at key locations within the study area based on the SWMHYMO simulations. Note that both the 3-Hour Chicago and 24-Hour SCS design storms were assessed in this study. The peak flows determined by this model have been used to set the maximum allowable post-development release rates. Full input and summary files of the proposed SWMHYMO models have been provided in **Appendix A.**

Table 1: Pre-Development Peak Flows

Event	Peak Flow (m^3/s)	
	Bear Brook Trib (10.62 ha)	Boundary Road – Ditch (0.61 ha)
25mm CHI 4Hr	0.020	0.001
2-Year CHI 3Hr	0.038	0.003
5-Year CHI 3Hr	0.070	0.005
100-Year CHI 3Hr	0.194	0.015
100-Year SCS 24 Hr	0.265	0.021
100-Year CHI 3Hr +20%	0.271	0.021

3 Proposed Conditions

3.1 Model Overview

3.1.1 Drainage Areas / Imperviousness

Under the proposed conditions, the drainage areas have been delineated by LRL based on the site's proposed grading. The impervious values for each of these areas are based on the runoff coefficients determined by LRL and converted to impervious values using the following formula.

$$\%\ Impervious = \left(\frac{C - 0.2}{0.7}\right) \times 100$$

For these lands, the following Horton's Infiltration parameters have been assumed: F_o=76.2 mm/hr, F_c=13.2 mm/hr, DCAY=4.14 /hr, F=0 mm, and initial abstraction values of 1.57mm and 4.67 mm for impervious and pervious surfaces, all as per the City of Ottawa design guidelines. An overview of the proposed development drainage areas and imperviousness has been provided in **Figure B1 of Appendix B**.

3.1.2 Storm Sewer Network

The storm sewer network was designed by LRL based on rational method calculations and general site grading constraints (see **Appendix B** for full rational method calculations). The storm sewer network plan has been incorporated into the model based on this design, with exit losses applied to the model to account for losses that occur at bends in the system.

Maintenance Hole Catch Basins (MHCBs) have been implemented throughout the majority of the site to allow for easy maintenance. Further to this, no ICDs have been proposed for this site, and the constriction that the CBMH grate provides has been the only consideration for attenuating and

retaining flows within the major system. The CB grates have been represented in the model as rectangular bottom orifices with a total opening area reflective of the proposed CB grate opening. A comparison of the depth-to-flow relationship per the City of Ottawa Storm Design Guidelines (empirically derived) and the model simulated depth flow relationship (based on the orifice equation) has been provided in **Attachment B,** which shows a coefficient of determination (r^2) of **0.963.**

The majority of the site will capture flows via Maintenance Hole Catch Basin (MHCB) which will then convey flows to Dry SWM ponds located in the northwest (Pond 1) and southeast (Pond 2) extents of the site. The northwest SWM pond is connected to an additional storage area upstream via **2 x 600 mm CSPs** and will outlet to the Bear Brook tributary via a naturalized drainage swale. The southeastern extent of the development will have an independent stormer sewer network, that will outlet to the roadside ditch along Boundary Road. The full storm sewer network has been outlined in **Figure B2 of Appendix B**.

3.1.3 Road Storage & ICDs

The site grading has been optimized to make full use of any potential major system ponding locations throughout the site. This storage has been represented in the model through the use of storage nodes, which are depth/area curves based on LRL's detailed grading of the site. In the event of a blockage, there is enough storage within each of these low points to contain the full runoff volume for the 100-year event. Thus, Depth x Velocity summary tables have not been provided for this analysis. In an event greater than the 100-year event +20% and a coinciding blockage, flows will cascade from low point to low point until reaching the SWM Pond in the west and north of the site.

3.1.4 Stormwater Management Facilities

Two dry Stormwater Management (SWM) ponds are proposed for the site. They are numbered 1 and 2, with Pond 1 located in the northwest corner and Pond 2 in the southeast. For their exact locations and the full storm sewer network, refer to **Figure B2 in Appendix B**.

The majority of the site will gravity drain to a proposed ditch/swale along the southern extent of the property. Flows will be attenuated in the ditch before discharging to SWM Pond 1 in the western extent of the site. A storm sewer network will also be implemented in the north to capture runoff from roads along the northern edge of the property. These flows will be conveyed to SWM Pond 2 in the southeast of the site before discharging to the roadside ditch along Boundary Road. The majority of the subdivision ultimately outlets to the Bear Brook tributary through SWM Pond 1.

The SWM pond 1 outlet will consist of 2 components, a **130 mm** circular orifice at the invert elevation of the pond (**75.80 m**), the top of the pond outlet structure will be open at the top at an elevation of **77.00m** and will be equipped with a steel grate**,** and a **5 m** wide overflow weir will be provided at **77.1m** as an emergency overflow in the event of a blockage in the pond outlet structure or downstream pipe network.

For all summer events a fixed downstream boundary elevation of **75.87m** has been applied to the model which is reflective of the 100-year summer water level in the Bear Brook Tributary at the SWM pond outlet location. Note that the 100-year summer water level is 7cm higher than the pond bottom, but due to differences in the timing of peaks between the development and the larger watershed the fixed downstream elevation has not been considered to be able to backflow into the pond at the start of the simulation. See Section 3.1.6 for additional details regarding the downstream boundary conditions.

Pond 2 is located in the southeast corner of the development servicing a smaller portion of the development and will discharge to the existing roadside ditch along Boundary Road, before discharging to the Bear Brook tributary. Given the small release rates for this location, a conventional orifice outlet configuration is not a feasible option as the orifice opening sizes would be so small that it would be at risk of blockage. Alternatively, a hydrovex flow control device is proposed to be implemented at this location to limit the flows to the required rate while avoiding the risk of blockage. For this analysis, a **Veolia 75 VHV-1 hydrovex** unit has been assumed. A **70 m** wide overflow weir has been set at **77.45 m**, along the eastern edge of the pond, and will act as an emergency overflow weir during a blockage or extreme event.

3.1.5 Oil and Grit Separator (OGS) Units

Throughout this site, Oil and grit separator (OGS) units will be implemented to provide water treatment and in conjunction with the Dry SWM ponds will provide enhanced (80%) water quality treatment for the site. OGS units will be implemented downstream of Pond 1 before discharging to the Bear Brook Tributary, and downstream of Pond 2 before it discharges to the roadside ditch on Boundary Road. For Pond 1 an **EF06 Stormceptor** is proposed and an **EF04 Stormceptor** for SWM Pond 2. Full details of these OGS units have been provided in **Appendix D.**

3.1.6 Downstream Boundary Conditions

As requested by South Nation Conservation (SNC) the Bear Brook HEC-RAS model of record has been extended upstream to the proposed SWM pond outlet. An additional cross-section was added to the model at the location of the proposed SWM pond outlet based on the City of Ottawa LiDAR and a detailed survey completed by AOV. Other HEC-RAS model parameters (e.g. manning's, expansion-contraction coefficients) for this cross-section were updated to align with exiting downstream cross-sections and other associated model parameters (channel and overbank lengths) were updated accordingly. The model was re-run again using both summer and spring flows as outlined in SNC's HEC-HMS model of the Bear Brook, and the respective water levels obtained. The following table outlines the various water levels derived from the model.

Table 2: Bear Brook Tributary Water Levels

Design Storm	Flow (m^3/s)	Water Surface Elevation (m)
2-Year Summer	0.05	75.72
25-Year Summer	0.13	75.82
100-Year Summer Event	0.20	75.87
100-Year Snow Melt	0.60	76.07

Based on this analysis the water level at the outlet of the SWM pond will reach **75.87m** during the 100-year summer event. Similarly, during the 100-year spring event, the water level is projected to be **76.07m**. The bottom of the SWM pond at this location will be set at **75.8m**, which means that during the 100-year event, the downstream water level will be **7cm** and **27cm** above the bottom of the pond during the summer and spring events respectively. The bottom of the SWM pond will be above the 2-year summer water level, and only **2 cm** lower than the 25-year summer event. As mentioned above all summer design storms assume a 100-year summer water level on the Bear Brook Trib, and the spring snowmelt analysis assumes a 100-year spring water level on

the Bear Brook Trib. A copy of the HEC-RAS model has been provided electronically. Refer to **Appendix E** for the location and extends of the HEC-RAS model updates along with model cross sections and results.

3.1.7 Snow Melt Event

As requested by SNC the site has also been assessed under a 100-year 10-day rainfall plus snowmelt event, to ensure that the stormwater management infrastructure is sufficiently sized to convey such an event. In this modelling scenario, the infiltration method was changed to CN, and all areas had a value of 95 applied to reflect frozen/saturated soils (in line with the Bear Brook floodplain mapping study). The complete findings of this analysis are presented in the Results section of this report. It's crucial to highlight that the assumption is made that the soils are either frozen or saturated. Consequently, the peak flows and total runoff volumes from the development under post-development conditions align closely with those under pre-development conditions. This means that the impacts on the receiving watercourse remain unchanged, if not reduced, due to the incorporation of the Stormwater Management (SWM) facilities. Thus this analysis intends to ensure that the site can continue to function as planned without any flooding issues under such a scenario.

3.1.8 Erosion Analysis

SNC has also requested the completion of a geomorphological and erosion assessment on the downstream watercourse. The purpose of this study is to quantify and understand any potential impacts that the development might have on the waterway.

In collaboration with Geomorphix Ltd (GMX), JFSA completed an erosion exceedance analysis. As part of this work, JFSA created a hydrologic model of the existing watershed up to its confluence with the main branch of Bear Brook, located approximately 1.4 km downstream of the proposed development. This model was run using 39 years of historical rainfall data (from 1967 to 2007, excluding 2001 & 2005).

The hydrologic model was then updated to simulate post-development conditions by closely aligning the total inflows and storage/outflows with the detailed PCSWMM model (refer to Appendix C for complete comparisons and details). The model was rerun over the same period, and hydrographs were extracted from a location in the model that best represented BBT-7, identified as the most erosion-sensitive location based on GMX's rapid stream assessment.

GMX compared the changes in pre and post-development hydrographs and derived various erosion indices. The analysis results indicate that the proposed stormwater management strategy for the development effectively mitigates potential downstream erosion impacts on the receiving watercourse. Comprehensive details of the hydrologic modelling conducted as part of this work can be found in Appendix C. The full details of the geomorphological assessment are available in GMX's August 2024 report titled "Geomorphological and Erosion Assessment, Tributary of Bear Brook - 6160 Thunder Road and 5368 Boundary Road".

3.2 Results

The following section outlines the various results of the proposed development

3.2.1 Post-Development Release Rates

Furthermore**,** for the 25mm rainfall event, the peak flows are also equal to or less than the pre-development levels, indicating that the proposed development will not worsen any existing erosion issues. It's important to note that, due to the identified erosion concerns downstream, the site's SWM release rates are designed to mitigate erosion exceedances rather than simply match pre-development peak flows. As a result, the post-development peak flows from the site are significantly lower than the pre-development flows for most of the design storms evaluated.

Table 3 presents the peak inflows and outflows for SWM Pond 1 and SWM Pond 2, alongside the pre-development targets from **Table 1**. The data shows that the peak flows to both the Bear Brook Tributary and the Boundary Road Roadside Ditch are equal to or lower than the pre-development conditions specified in **Table 1**. Therefore, the proposed development is expected to have no adverse effects on the existing floodplain.

Furthermore, for the 25mm rainfall event, the peak flows are also equal to or less than the pre-development levels, indicating that the proposed development will not worsen any existing erosion issues. It's important to note that, due to the identified erosion concerns downstream, the site's SWM release rates are designed to mitigate erosion exceedances rather than simply match pre-development peak flows. As a result, the post-development peak flows from the site are significantly lower than the pre-development flows for most of the design storms evaluated.

Table 3: Post-Development Peak Flows

Event	Pond 1 Outlet / Bear Brook Trib			Boundary Road Ditch		
	Pre Dev Targets (m^3/s)	Post Dev Peak Inflows (m^3/s)	Post Dev Peak Outflows (m^3/s)	Pre Dev Targets (m^3/s)	Post Dev Peak Inflows (m^3/s)	Post Dev Peak Outflows (m^3/s)
25mm CHI 4Hr	0.020	0.429	0.020	0.001	0.117	0.001
2-Year CHI 3Hr	0.038	0.609	0.022	0.003	0.165	0.003
5-Year CHI 3Hr	0.070	0.912	0.026	0.005	0.245	0.003
100-Year CHI 3Hr	0.194	1.615	0.032	0.015	0.421	0.003
100-Year SCS 24 Hr	0.265	1.567	0.033	0.021	0.369	0.004
100-Year CHI 3Hr +20%	0.271	1.880	0.035	0.021	0.501	0.004

3.2.2 SWM Pond Summary

Table 4 outlines the peak water levels and depths and storage volume used for SWM Ponds 1, and 2. Note that flows are contained within the ponds for all events, including the stress test.

Table 4: SWM Facility Peak Water Surface Elevation (WSE) and Depth

Event	Pond 1			Pond 2		
	Max WSE (m)	Max Depth (m)	Max Storage Volume (m^3)	Max WSE (m)	Max Depth (m)	Max Storage Volume (m^3)
25mm CHI 4Hr	76.22	0.42	827	76.91	0.12	177
2-Year CHI 3Hr	76.31	0.51	1,309	76.95	0.16	237
5-Year CHI 3Hr	76.46	0.66	2,199	77.03	0.24	346
100-Year CHI 3Hr	76.75	0.95	3,963	77.24	0.45	672
100-Year SCS 24 Hr	76.80	1.00	4,289	77.32	0.53	798
100-Year CHI 3Hr +20%	76.87	1.07	4,728	77.34	0.55	835

3.2.3 HGL & Major System Summary

The storm sewer network has been designed by LRL based on 2-year rational method flows to ensure minimal pipe sizes throughout the site while also utilizing major system storage during larger events. The detailed PCSWMM model has been used to assess the minor system's ability to convey flows greater than the 2-year event, and to ensure the site is not subject to excess flooding during such events. During the 100-year event and stress test, the minor system will become surcharged and the storm sewer network will act as a constriction to flows from the parking area to the SWM pond (as the storm pipes have been designed for the 2-year level of service). This will result in major system ponding within the parking area, but it is important to note that there will be no backflow through the grates at any of these locations during these extreme events. Note that the surcharged storm sewer and ponding depths are not a concern as the building will be slab on grade, located in the highest parts of the site. The following table outlines the HGL at each CB along with the water surface elevation of the ponded water at each respective grate, and the max major system ponding depth.

Table 5 outlines the maximum HGL within the storm sewer trunk system for both the 100-Year Chicago 3Hr and stress test events. Note that the 100-Year SCS 24-Hour event has not been included as it is not a critical event for this site. Refer to **Figure B2 in Appendix B** for the exact location of each MH.

Based on this analysis the HGL is lower than the major system ponding at all CBMH locations, there is no backflow through the CB grates, and the maximum ponding depth for the 100-year event on the site is **26 cm** and **30cm** for the stress test event, both located at CBMH23, which is within the maximum allowable depths as per the City guidelines. The maximum calculated pond elevations have been provided back to LRL and mapped on the site's proposed grading surface to indicate the extent of major system ponding during such events, refer to LRL's **C601** figure for full details of major system ponding.

Table 5: HGL and Major System Ponding

Name	Top of Grate Elevation (m)	100-Year CHI 3 Hr				100-Year CHI 3 Hr + 20%			
		Max HGL (m)	Major Ponding WSE (m)	Major Ponding >HGL	Ponding Depth (m)	Max HGL (m)	Major Ponding WSE (m)	Major Ponding >HGL	Ponding Depth (m)
STM_CBMH01	77.94	78.02	78.12	TRUE	0.17	78.05	78.15	TRUE	0.21
STM_CBMH02	77.88	77.93	78.04	TRUE	0.16	77.97	78.08	TRUE	0.21
STM_CBMH03	77.77	77.54	77.91	TRUE	0.13	77.60	77.94	TRUE	0.16
STM_CBMH04	77.91	77.99	78.10	TRUE	0.19	78.03	78.14	TRUE	0.23
STM_CBMH05	77.85	77.87	77.99	TRUE	0.14	77.92	78.04	TRUE	0.19
STM_CBMH06	77.75	77.65	77.88	TRUE	0.13	77.72	77.90	TRUE	0.15
STM_CBMH07	77.88	77.95	78.07	TRUE	0.18	78.00	78.11	TRUE	0.22
STM_CBMH08	77.81	77.84	77.96	TRUE	0.15	77.89	78.01	TRUE	0.20
STM_CBMH09	77.71	77.62	77.84	TRUE	0.13	77.70	77.86	TRUE	0.15
STM_CBMH10	77.84	77.91	78.02	TRUE	0.19	77.96	78.07	TRUE	0.24
STM_CBMH11	77.76	77.79	77.91	TRUE	0.15	77.85	77.97	TRUE	0.21
STM_CBMH12	77.66	77.58	77.79	TRUE	0.13	77.67	77.82	TRUE	0.15
STM_CBMH13	77.77	77.77	77.87	TRUE	0.11	77.83	77.93	TRUE	0.16
STM_CBMH14	77.64	77.68	77.80	TRUE	0.15	77.75	77.86	TRUE	0.21
STM_CBMH15	77.58	77.50	77.71	TRUE	0.13	77.59	77.74	TRUE	0.15
STM_CBMH16	77.51	77.29	77.72	TRUE	0.21	77.51	77.77	TRUE	0.27
STM_CBMH17	77.55	77.48	77.74	TRUE	0.19	77.58	77.78	TRUE	0.22
STM_CBMH18	77.51	77.16	77.64	TRUE	0.14	77.25	77.67	TRUE	0.17
STM_CBMH19	77.30	76.83	77.52	TRUE	0.22	76.98	77.56	TRUE	0.26
STM_CBMH20	77.31	77.25	77.47	TRUE	0.16	77.37	77.54	TRUE	0.23
STM_CBMH21	77.31	76.93	77.44	TRUE	0.13	77.03	77.48	TRUE	0.17
STM_CBMH22	77.50	77.60	77.71	TRUE	0.20	77.65	77.75	TRUE	0.25
STM_CBMH23	77.56	77.68	77.81	TRUE	0.26	77.73	77.86	TRUE	0.30
STM_CBMH24	77.60	77.53	77.68	TRUE	0.08	77.60	77.69	TRUE	0.09
STM_CBMH25	77.51	77.28	77.60	TRUE	0.09	77.37	77.61	TRUE	0.10
STM_CBMH26	77.40	77.03	77.53	TRUE	0.13	77.11	77.56	TRUE	0.15
STM_CBMH27	78.01	77.64	78.12	TRUE	0.11	77.77	78.13	TRUE	0.13
STM_CBMH28	78.00	77.66	78.12	TRUE	0.12	77.80	78.14	TRUE	0.13
STM_CBMH29	78.01	77.59	78.22	TRUE	0.21	77.70	78.25	TRUE	0.25
				Max	**0.26**			**Max**	**0.30**

3.2.4 100 Year 10 Day Rainfall + Snow Melt Results

Table 6 below outlines the results of the site during the 100-year 10-day snowmelt event. From this analysis, it is seen that the SWM ponds have sufficient capacity to capture and attenuate flows from the site, and the flow out of the pond during this event is less than that of the pre-development 100-year events. The maximum major system ponding depth on the site for this event was found to be **3 cm** at WS-29.

Table 6: SWM Summary - 100-Year 10-Day Snowmelt Event

SWM	Pond Max WSE (m)	Freeboard (m)	Max Storage Volume (m^3)	Max Outflow (m^3/s)	Max Major system ponding Depth (cm)	Location
Pond 1	77.02	0.18	8451	0.040	0.03	WS-29
Pond 2	77.45	0.10	1023	0.025		

3.3 Erosion and sediment control during and after construction

Silt and erosion control strategies shall be implemented during construction activities to minimize the transfer of silt off-site. The following measures should be implemented:

i) Silt control fences shall be installed as required to prevent the movement of silt off-site during rainfall events.

ii) Construction of a mud mat shall be installed at the site entrance to promote self-cleaning of truck tires when leaving the site.

iii) All catch basins shall be equipped with a crushed stone filter to prevent the capture of silt in the storm sewer system.

iv) Regular cleaning of the adjacent roads shall be undertaken during the construction activities.

v) Regular inspection and maintenance of the silt control measures shall be undertaken until the site has been stabilized.

vi) The erosion and sediment control devices shall be removed after the site has been stabilized.

JFSA
WATER RESOURCES AND
ENVIRONMENTAL CONSULTANTS

Ottawa. ON
Paris. ON
Gatineau. QC
Montréal. QC
Québec. QC

Appendix A

Pre-Development Model
(SWMHYMO)

N

Legend

Subcatchments
<Name>
<Area>

SCALE: 1:3000

0 50 100 m

J.F. Sabourin and Associates Inc.
WATER RESOURCES AND ENVIRONMENTAL CONSULTANTS
52 Springbrook Drive
Ottawa, ON, K2S 1B9
(613) 836-3884
www.jfsa.com

Thunder Road Partnership

6150 Thunder Road SWM Report

Figure A1: Subcatchments

PROJECT	2120(01)-21
DRAWN	JZ
DATE	AUGUST 2024

N

Legend

- Subcatchments

Land Use

- Plantation
- Treed Swamp

SCALE: 1:3000

0 50 100 m

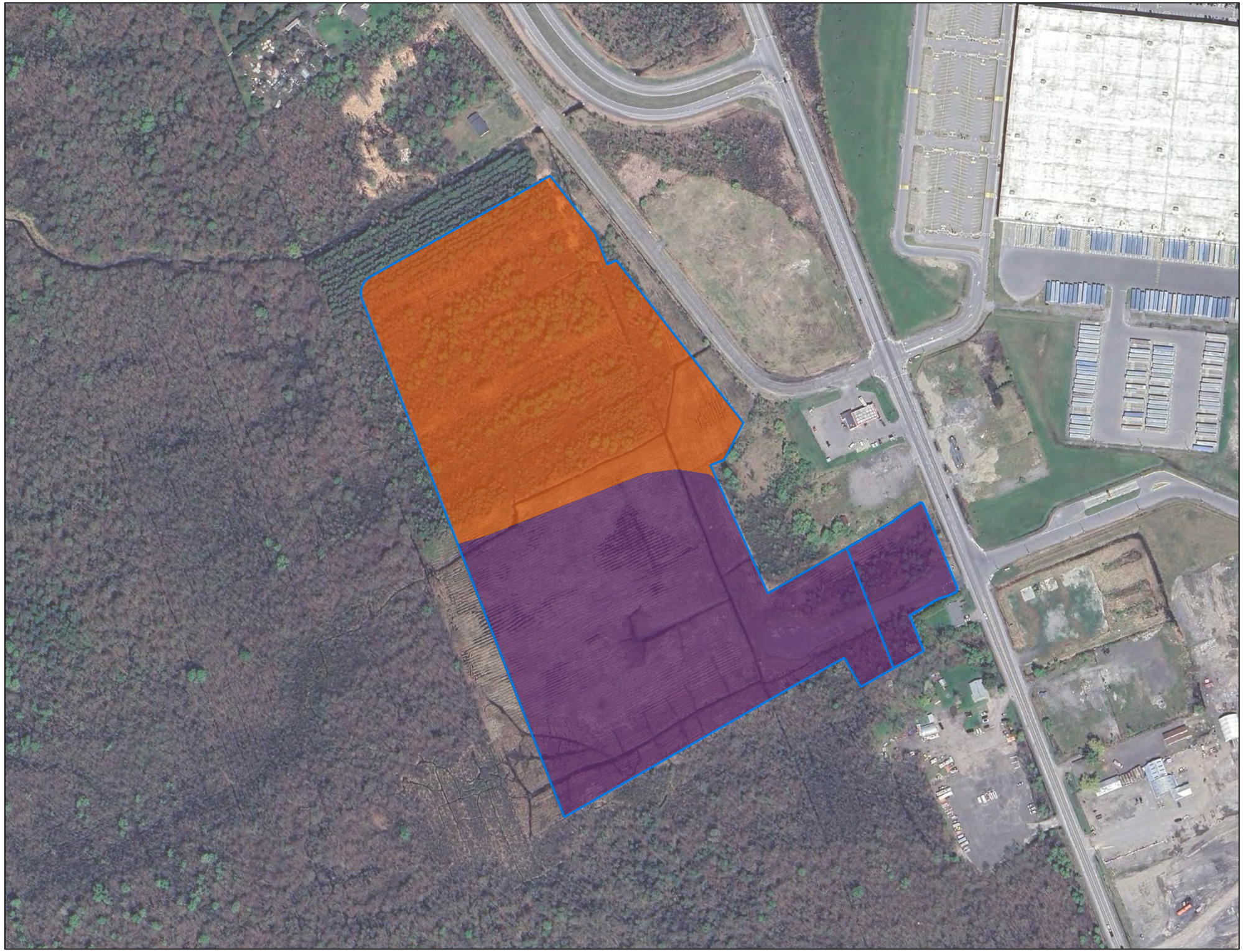
J.F. Sabourin and Associates Inc.
WATER RESOURCES AND ENVIRONMENTAL CONSULTANTS
52 Springbrook Drive
Ottawa, ON, K2S 1B9
(613) 836-3884
www.jfsa.com

Thunder Road Partnership

6150 Thunder Road SWM Report

Figure A2: Land Use

PROJECT	2120(01)-21
DRAWN	JZ
DATE	AUGUST 2024



N

Legend

- Subcatchments

Soil Name (Type)

- ALLENDALE (C)
- CHENEY (C)

SCALE: 1:3000

0 50 100 m

J.F. Sabourin and Associates Inc.
WATER RESOURCES AND ENVIRONMENTAL CONSULTANTS
52 Springbrook Drive
Ottawa, ON, K2S 1B9
(613) 836-3884
www.jfsa.com

Thunder Road Partnership

6150 Thunder Road SWM Report

Figure A3: Soil Types

PROJECT	2120(01)-21
DRAWN	JZ
DATE	AUGUST 2024

N

Legend

- Development Area
- Streams
- Major Flow Path

Terrain (m)

- 70
- 72
- 74
- 76
- 78
- 80
- 82
- 84
- Contours (0.5m)

SCALE: 1:3000

0 50 100 m

J.F. Sabourin and Associates Inc.
WATER RESOURCES AND ENVIRONMENTAL CONSULTANTS
52 Springbrook Drive
Ottawa, ON, K2S 1B9
(613) 836-3884
www.jfsa.com

Thunder Road Partnership

6150 Thunder Road SWM Report

Figure A4: Terrain

PROJECT	2120(01)-21
DRAWN	JZ
DATE	AUGUST 2024

Table A1: Calculation of SCS Curve Number (CN) and Modified Curve Number (CN*)

EWS-01 (10.616 ha)							
Area (ha)	Land Type	Soil Name	Soil Condition	Soil Group	CN	% of Catchment	Weighted CN
5.353	Treed Swamp	CHENEY	C	Good	50	50.4%	25.2
5.263	Plantation	ALLENDALE	C	Good	70	49.6%	34.7
						CN	**60**

EWS-02 (0.613 ha)							
Area (ha)	Land Type	Soil Name	Soil Condition	Soil Group	CN	% of Catchment	Weighted CN
0.613	Treed Swamp	CHENEY	C	Good	50	100.0%	50
						CN*	**50**

Table A2: Time to Peak Calculations

Parameter	Units	EWS-01	EWS-02
Area	ha	10.62	0.61
CN*	-	60	50
Ptotal to calc C from CN, use 2	P(mm)	43.2	43.2
yr 12 hr SCS stom	Ia(mm)	4.67	4.67
	RV(mm)	7.1	5.1
C	-	0.16	0.12
Length of Channel	m	491	120
	ft	1611	395
Elevation of Head Water	m	76.98	76.97
	ft	253	253
Elevation of Outlet	m	76.00	76.58
	ft	249	251
Average Slope	m/m	0.20%	0.32%
	ft/ft	0.20%	0.32%
Kirpich			
Time of Concentration	mins	25	7
Time to Peak	min	17	5
Time to Peak	Hours	0.28	0.08
FAA			
Time of Concentration	mins	116	51
Time to Peak	mins	77	34
Time to Peak	Hours	1.29	0.57
Barnsby Williams			
Time of Concentration	mins	31	9
Time to Peak	mins	21	6
Time to Peak	Hours	0.34	0.10
SCS			
Time of Concentration	mins	181	59
Time to Peak	mins	121	39
Time to Peak	Hours	2.01	0.66
Selected Method			
FAA			
Time to Peak	min	77	34
Time to Peak	Hours	1.29	0.57

Note:

All methods calculated as per Appendix A of the SWMHYMO manual

Time to Peak calculated as 2/3 Time of concentration

```
20    Metric units / ID numbers OFF
*#*************************************************************************
*#  SWMHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
*#*************************************************************************
*#  Project Name  : [6150 Thunder Road SWM - Existing Conditions]
*#  Project Number: [2120]
*#  Date          : 2024/08/14
*#  Modeller      : JZ
*#  Company       : J.F. Sabourin and Associates
*#  License #     : 2582634
*#*************************************************************************
*Model developed to set pre-development release rates for future industrial park
*#*************************************************************************
*%  25 mm Storm based on 2-Year, 4-Hour Chicago Storm
START               TZERO=[0.0],  METOUT=[2],  NSTORM=[1],  NRUN=[001]
                   ["25MM4H.stm"] <--storm filename, one per line for NSTORM time
*%-----------------|-------------------------------------------------------|
READ STORM          STORM_FILENAME=["storm.001"]
*%-----------------|-------------------------------------------------------|
*DEFAULT VALUES      ICASEdef=[1],  read and print values
*                    DEFVAL_FILENAME=["Ottawa.val"]
*%-----------------|-------------------------------------------------------|
*#########################################################################
*# Pre-Development Drainage Area
*#########################################################################
CALIB NASHYD        NHYD=["EWS-01"], DT=[1](min), AREA=[10.616](ha),
                    DWF=[0](cms), CN=[60], IA=[ 4.67](mm), N=[ 3 ], TP[ 1.29 ](hrs),
                    RAINFALL[ , , -1]
*%-----------------|-------------------------------------------------------|
CALIB NASHYD        NHYD=["EWS-02"], DT=[1](min), AREA=[0.613](ha),
                    DWF=[0](cms), CN=[50], IA=[ 4.67](mm), N=[ 3 ], TP[ 0.57 ](hrs),
                    RAINFALL[ , , -1]
*%-----------------|-------------------------------------------------------|
*#########################################################################
*# STORMS
*#########################################################################
*%  25 mm Storm based on 2-Year, 3-Hour Chicago Storm
*%START               TZERO=[0.0],  METOUT=[2],  NSTORM=[1],  NRUN=[001]
*%                   ["25MMC3H.stm"] <--storm filename, one per line for NSTORM time
*%-----------------|-------------------------------------------------------|
*%  2-Year, 3-Hour Chicago Storm
START               TZERO=[0.0],  METOUT=[2],  NSTORM=[1],  NRUN=[002]
                   ["002YC3H.stm"] <--storm filename, one per line for NSTORM time
*%-----------------|-------------------------------------------------------|
*%  5-Year, 3-Hour Chicago Storm
START               TZERO=[0.0],  METOUT=[2],  NSTORM=[1],  NRUN=[005]
                   ["005YC3H.stm"] <--storm filename, one per line for NSTORM time
*%-----------------|-------------------------------------------------------|
*%  10-Year, 3-Hour Chicago Storm
START               TZERO=[0.0],  METOUT=[2],  NSTORM=[1],  NRUN=[010]
                   ["010YC3H.stm"] <--storm filename, one per line for NSTORM time
*%-----------------|-------------------------------------------------------|
*%  25-Year, 3-Hour Chicago Storm
START               TZERO=[0.0],  METOUT=[2],  NSTORM=[1],  NRUN=[025]
                   ["025YC3H.stm"] <--storm filename, one per line for NSTORM time
*%-----------------|-------------------------------------------------------|
*%  50-Year, 3-Hour Chicago Storm
START               TZERO=[0.0],  METOUT=[2],  NSTORM=[1],  NRUN=[050]
                   ["050YC3H.stm"] <--storm filename, one per line for NSTORM time
*%-----------------|-------------------------------------------------------|
*%  100-Year, 3-Hour Chicago Storm
START               TZERO=[0.0],  METOUT=[2],  NSTORM=[1],  NRUN=[099]
                   ["100YC3H.stm"] <--storm filename, one per line for NSTORM time
*%-----------------|-------------------------------------------------------|
*%  2-Year, 24-Hour SCS Storm
START               TZERO=[0.0],  METOUT=[2],  NSTORM=[1],  NRUN=[102]
                   ["SC24002x.stm"] <--storm filename, one per line for NSTORM time
*%-----------------|-------------------------------------------------------|
*%  5-Year, 24-Hour SCS Storm
```

```
START                TZERO=[0.0],  METOUT=[2],  NSTORM=[1],  NRUN=[105]
                    ["SC24005x.stm"] <--storm filename, one per line for NSTORM time
*%-----------------|-------------------------------------------------------------|
*%  10-Year, 24-Hour SCS Storm
START                TZERO=[0.0],  METOUT=[2],  NSTORM=[1],  NRUN=[110]
                    ["SC24010x.stm"] <--storm filename, one per line for NSTORM time
*%-----------------|-------------------------------------------------------------|
*%  25-Year, 24-Hour SCS Storm
START                TZERO=[0.0],  METOUT=[2],  NSTORM=[1],  NRUN=[125]
                    ["SC24025x.stm"] <--storm filename, one per line for NSTORM time
*%-----------------|-------------------------------------------------------------|
*%  50-Year, 24-Hour SCS Storm
START                TZERO=[0.0],  METOUT=[2],  NSTORM=[1],  NRUN=[150]
                    ["SC24050x.stm"] <--storm filename, one per line for NSTORM time
*%-----------------|-------------------------------------------------------------|
*%  100-Year, 24-Hour SCS Storm
START                TZERO=[0.0],  METOUT=[2],  NSTORM=[1],  NRUN=[199]
                    ["SC24100x.stm"] <--storm filename, one per line for NSTORM time
*%-----------------|-------------------------------------------------------------|
*%  2-Year, 12-Hour SCS Storm
*START                TZERO=[0.0],  METOUT=[2],  NSTORM=[1],  NRUN=[202]
*%                    ["SC12002c.stm"] <--storm filename, one per line for NSTORM time
*%-----------------|-------------------------------------------------------------|
*%  5-Year, 12-Hour SCS Storm
*START                TZERO=[0.0],  METOUT=[2],  NSTORM=[1],  NRUN=[205]
*%                    ["SC12005c.stm"] <--storm filename, one per line for NSTORM time
*%-----------------|-------------------------------------------------------------|
*%  10-Year, 12-Hour SCS Storm
*START                TZERO=[0.0],  METOUT=[2],  NSTORM=[1],  NRUN=[210]
*%                    ["SC12010c.stm"] <--storm filename, one per line for NSTORM time
*%-----------------|-------------------------------------------------------------|
*%  25-Year, 12-Hour SCS Storm
*START                TZERO=[0.0],  METOUT=[2],  NSTORM=[1],  NRUN=[225]
*%                    ["SC12025c.stm"] <--storm filename, one per line for NSTORM time
*%-----------------|-------------------------------------------------------------|
*%  50-Year, 12-Hour SCS Storm
*START                TZERO=[0.0],  METOUT=[2],  NSTORM=[1],  NRUN=[250]
*%                    ["SC12050c.stm"] <--storm filename, one per line for NSTORM time
*%-----------------|-------------------------------------------------------------|
*%  100-Year, 12-Hour SCS Storm
*START                TZERO=[0.0],  METOUT=[2],  NSTORM=[1],  NRUN=[299]
*%                    ["SC12100c.stm"] <--storm filename, one per line for NSTORM time
*%-----------------|-------------------------------------------------------------|
*%  July 1st, 1979 Storm - Ottawa International Airport
*START                TZERO=[0.0],  METOUT=[2],  NSTORM=[1],  NRUN=[979]
*%                    ["19790701.stm"] <--storm filename, one per line for NSTORM time
*%-----------------|-------------------------------------------------------------|
*%  August 4th, 1988 Storm - Ottawa International Airport
*START                TZERO=[0.0],  METOUT=[2],  NSTORM=[1],  NRUN=[988]
*%                    ["19880804.stm"] <--storm filename, one per line for NSTORM time
*%-----------------|-------------------------------------------------------------|
*%  August 8th, 1996 Storm - Ottawa International Airport
*START                TZERO=[0.0],  METOUT=[2],  NSTORM=[1],  NRUN=[996]
*%                    ["19960808.stm"] <--storm filename, one per line for NSTORM time
*%-----------------|-------------------------------------------------------------|
*%  100-Year, 24-Hour SCS Storm + 20%
*START                TZERO=[0.0],  METOUT=[2],  NSTORM=[1],  NRUN=[998]
*%                    ["SC24100x+.stm"] <--storm filename, one per line for NSTORM time
*%-----------------|-------------------------------------------------------------|
*%  100-Year, 3-Hour Chicago Storm + 20%
START                TZERO=[0.0],  METOUT=[2],  NSTORM=[1],  NRUN=[999]
                    ["100YC3H+.stm"] <--storm filename, one per line for NSTORM time
*%-----------------|-------------------------------------------------------------|
FINISH
```

```
00001>  ================================================================================
00002>
00003>  SSSSS   W   W   M   M   H   H   Y   Y   M   M    OOO          222     000    11   5555   =========
00004>  S       W W W   MM MM   H   H    Y Y    MM MM   O   O           2     0   0   11   5       
00005>  SSSSS   W W W   M M M   HHHHH     Y     M M M   O   O           2     0   0   11   5       Ver 5.500
00006>      S    W W    M   M   H   H     Y     M   M   O   O         222     0   0   11   555     FEB  2015
00007>  SSSSS    W W    M   M   H   H     Y     M   M    OOO          2       0   0   11     5     =========
00008>                                                                 2       0   0   11     5     # 2549237
00009>         StormWater Management HYdrologic Model                  222     000    11   555     =========
00010>
00011>  ***********************************************************************************************
00012>  ****************************************  SWMHYMO Ver 5.500  ********************************
00013>  ****************  A single event and continuous hydrologic simulation model  ********************
00014>  ****************          based on the principles of HYMO and its successors        ****************
00015>  ****************                    OTTHYMO-83 and OTTHYMO-89.                      ****************
00016>  ***********************************************************************************************
00017>  ****************  Distributed by:  J.F. Sabourin and Associates Inc.          ********************
00018>  ****************                  Ottawa,  Ontario: (613) 836-3884            ********************
00019>  ****************                  Gatineau, Quebec: (819) 243-6858            ********************
00020>  ****************                  E-Mail: swmhymo@jfsa.com                    ********************
00021>  ***********************************************************************************************
00022>
00023>  +++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
00024>  ++++++++++++++++++ Licensed user: JFSAinc.                                  ++++++++++++++++++
00025>  ++++++++++++++++++                 Ottawa                  SERIAL#:2549237  ++++++++++++++++++
00026>  +++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
00027>
00028>  ***********************************************************************************************
00029>  ****************                 ++++++ PROGRAM ARRAY DIMENSIONS ++++++          ********************
00030>  ****************           Maximum value for ID numbers  :    11               ********************
00031>  ****************           Max. number of rainfall points: 105408              ********************
00032>  ****************           Max. number of flow points    : 105408              ********************
00033>  ***********************************************************************************************
00034>
00035>
00036>  ******************************  S U M M A R Y   O U T P U T  ***********************************
00037>  ***********************************************************************************************
00038>  *                       RUN DATE: 2024-08-14     TIME: 17:11:40     RUN COUNTER: 001932       *
00039>  ***********************************************************************************************
00040>  * Input   file: C:\Users\JoeyZaborski\Documents\20240814-Pre-Dev Flows\THUN_v04-EX.dat          *
00041>  * Output  file: C:\Users\JoeyZaborski\Documents\20240814-Pre-Dev Flows\THUN_v04-EX.out          *
00042>  * Summary file: C:\Users\JoeyZaborski\Documents\20240814-Pre-Dev Flows\THUN_v04-EX.sum          *
00043>  * User comments:                                                                              *
00044>  * 1:_____________________________________________________________________________________     *
00045>  * 2:_____________________________________________________________________________________     *
00046>  * 3:_____________________________________________________________________________________     *
00047>  ***********************************************************************************************
00048>
00049>
00050>  #*******************************************************************************
00051>  #  SWMHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
00052>  #*******************************************************************************
00053>  #  Project Name  : [6150 Thunder Road SWM - Existing Conditions]
00054>  #  Project Number: [2120]
00055>  #  Date          : 2024/08/14
00056>  #  Modeller      : JZ
00057>  #  Company       : J.F. Sabourin and Associates
00058>  #  License #     : 2582634
00059>  #*******************************************************************************
00060>  #*******************************************************************************
00061>   RUN#:COMMAND#
00062>  R0001:C00001------------------------------------------------------------------------------
00063>       START
00064>         [TZERO =    .00 hrs on        0]
00065>         [METOUT=   2    (1=imperial, 2=metric output)]
00066>         [NSTORM=   1 ]
00067>         [NRUN  = 0001 ]
00068>  R0001:C00002------------------------------------------------------------------------------
00069>       READ STORM
00070>         Filename = storm.001
00071>         Comment  = 25 mm 4 Hours step 10 min, City of Ottawa
00072>         [SDT=10.00:SDUR=   4.00:PTOT=  25.00]
00073>  ################################################################################
00074>  # Pre-Development Drainage Area
00075>  ################################################################################
00076>  R0001:C00003-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
00077>       CALIB NASHYD           1.0 01:EWS-01        10.62     .020 No_date    3:10    2.18 .087     .000
00078>         [CN= 60.0: N= 3.00: Tp= 1.29]
00079>  R0001:C00004-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
00080>       CALIB NASHYD           1.0 01:EWS-02          .61     .001 No_date    2:08    1.50 .060     .000
00081>         [CN= 50.0: N= 3.00: Tp=  .57]
00082>  ################################################################################
00083>  # STORMS
00084>  ################################################################################
00085>    ** END OF RUN :    1
00086>
00087>  ***********************************************************************************************
00088>
00089>
00090>
00091>
00092>
00093>   RUN#:COMMAND#
00094>  R0002:C00001------------------------------------------------------------------------------
00095>       START
00096>         [TZERO =    .00 hrs on        0]
00097>         [METOUT=   2    (1=imperial, 2=metric output)]
00098>         [NSTORM=   1 ]
00099>         [NRUN  = 0002 ]
00100>  #*******************************************************************************
00101>  #  SWMHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
00102>  #*******************************************************************************
00103>  #  Project Name  : [6150 Thunder Road SWM - Existing Conditions]
00104>  #  Project Number: [2120]
00105>  #  Date          : 2024/08/14
00106>  #  Modeller      : JZ
00107>  #  Company       : J.F. Sabourin and Associates
00108>  #  License #     : 2582634
00109>  #*******************************************************************************
00110>  #*******************************************************************************
00111>  R0002:C00002------------------------------------------------------------------------------
00112>       READ STORM
00113>         Filename = storm.001
00114>         Comment  = CHICAGO STORM 2 Year, 3 Hours
00115>         [SDT=10.00:SDUR=   3.00:PTOT=  31.86]
00116>  ################################################################################
00117>  # Pre-Development Drainage Area
00118>  ################################################################################
00119>  R0002:C00003-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
00120>       CALIB NASHYD           1.0 01:EWS-01        10.62     .038 No_date    2:47    3.76 .118     .000
00121>         [CN= 60.0: N= 3.00: Tp= 1.29]
00122>  R0002:C00004-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
00123>       CALIB NASHYD           1.0 01:EWS-02          .61     .003 No_date    1:47    2.63 .082     .000
00124>         [CN= 50.0: N= 3.00: Tp=  .57]
00125>  ################################################################################
00126>  # STORMS
00127>  ################################################################################
00128>    ** END OF RUN :    4
00129>
00130>  ***********************************************************************************************
00131>
00132>
00133>
00134>
00135>
00136>   RUN#:COMMAND#
00137>  R0005:C00001------------------------------------------------------------------------------
00138>       START
00139>         [TZERO =    .00 hrs on        0]
00140>         [METOUT=   2    (1=imperial, 2=metric output)]
00141>         [NSTORM=   1 ]
00142>         [NRUN  = 0005 ]
00143>  #*******************************************************************************
00144>  #  SWMHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
00145>  #*******************************************************************************
00146>  #  Project Name  : [6150 Thunder Road SWM - Existing Conditions]
00147>  #  Project Number: [2120]
00148>  #  Date          : 2024/08/14
00149>  #  Modeller      : JZ
00150>  #  Company       : J.F. Sabourin and Associates
00151>  #  License #     : 2582634
00152>  #*******************************************************************************
00153>  #*******************************************************************************
00154>  R0005:C00002------------------------------------------------------------------------------
00155>       READ STORM
00156>         Filename = storm.001
00157>         Comment  = CHICAGO STORM  5 Year, 3 Hours
00158>         [SDT=10.00:SDUR=   3.00:PTOT=  42.51]
00159>  ################################################################################
00160>  # Pre-Development Drainage Area
00161>  ################################################################################
00162>  R0005:C00003-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
00163>       CALIB NASHYD           1.0 01:EWS-01        10.62     .070 No_date    2:44    6.91 .163     .000
00164>         [CN= 60.0: N= 3.00: Tp= 1.29]
00165>  R0005:C00004-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
00166>       CALIB NASHYD           1.0 01:EWS-02          .61     .005 No_date    1:45    4.91 .115     .000
00167>         [CN= 50.0: N= 3.00: Tp=  .57]
00168>  ################################################################################
00169>  # STORMS
00170>  ################################################################################
00171>    ** END OF RUN :    9
00172>
00173>  ***********************************************************************************************
00174>
00175>
00176>
00177>
00178>
00179>   RUN#:COMMAND#
00180>  R0010:C00001------------------------------------------------------------------------------
00181>       START
00182>         [TZERO =    .00 hrs on        0]
00183>         [METOUT=   2    (1=imperial, 2=metric output)]
00184>         [NSTORM=   1 ]
00185>         [NRUN  = 0010 ]
00186>  #*******************************************************************************
00187>  #  SWMHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
00188>  #*******************************************************************************
00189>  #  Project Name  : [6150 Thunder Road SWM - Existing Conditions]
00190>  #  Project Number: [2120]
00191>  #  Date          : 2024/08/14
00192>  #  Modeller      : JZ
00193>  #  Company       : J.F. Sabourin and Associates
00194>  #  License #     : 2582634
00195>  #*******************************************************************************
00196>  #*******************************************************************************
00197>  R0010:C00002------------------------------------------------------------------------------
00198>       READ STORM
00199>         Filename = storm.001
00200>         Comment  = CHICAGO STORM 10 Year, 3 Hours
00201>         [SDT=10.00:SDUR=   3.00:PTOT=  49.50]
00202>  ################################################################################
00203>  # Pre-Development Drainage Area
00204>  ################################################################################
00205>  R0010:C00003-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
00206>       CALIB NASHYD           1.0 01:EWS-01        10.62     .095 No_date    2:42    9.39 .190     .000
00207>         [CN= 60.0: N= 3.00: Tp= 1.29]
00208>  R0010:C00004-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
00209>       CALIB NASHYD           1.0 01:EWS-02          .61     .007 No_date    1:45    6.73 .136     .000
00210>         [CN= 50.0: N= 3.00: Tp=  .57]
00211>  ################################################################################
00212>  # STORMS
00213>  ################################################################################
00214>    ** END OF RUN :   24
00215>
00216>  ***********************************************************************************************
00217>
00218>
00219>
00220>
00221>
00222>   RUN#:COMMAND#
00223>  R0025:C00001------------------------------------------------------------------------------
00224>       START
00225>         [TZERO =    .00 hrs on        0]
00226>         [METOUT=   2    (1=imperial, 2=metric output)]
00227>         [NSTORM=   1 ]
00228>         [NRUN  = 0025 ]
00229>  #*******************************************************************************
00230>  #  SWMHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
00231>  #*******************************************************************************
00232>  #  Project Name  : [6150 Thunder Road SWM - Existing Conditions]
00233>  #  Project Number: [2120]
00234>  #  Date          : 2024/08/14
00235>  #  Modeller      : JZ
00236>  #  Company       : J.F. Sabourin and Associates
00237>  #  License #     : 2582634
00238>  #*******************************************************************************
00239>  #*******************************************************************************
00240>  R0025:C00002------------------------------------------------------------------------------
00241>       READ STORM
00242>         Filename = storm.001
00243>         Comment  = CHICAGO STORM  25 Year, 3 Hours
00244>         [SDT=10.00:SDUR=   3.00:PTOT=  58.23]
00245>  ################################################################################
00246>  # Pre-Development Drainage Area
00247>  ################################################################################
00248>  R0025:C00003-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
00249>       CALIB NASHYD           1.0 01:EWS-01        10.62     .131 No_date    2:41   12.87 .221     .000
00250>         [CN= 60.0: N= 3.00: Tp= 1.29]
00251>  R0025:C00004-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
00252>       CALIB NASHYD           1.0 01:EWS-02          .61     .010 No_date    1:44    9.32 .160     .000
00253>         [CN= 50.0: N= 3.00: Tp=  .57]
00254>  ################################################################################
00255>  # STORMS
00256>  ################################################################################
00257>    ** END OF RUN :   49
00258>
00259>  ***********************************************************************************************
00260>
00261>
00262>
00263>
00264>
00265>   RUN#:COMMAND#
00266>  R0050:C00001------------------------------------------------------------------------------
00267>       START
00268>         [TZERO =    .00 hrs on        0]
00269>         [METOUT=   2    (1=imperial, 2=metric output)]
00270>         [NSTORM=   1 ]
00271>         [NRUN  = 0050 ]
00272>  #*******************************************************************************
00273>  #  SWMHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
00274>  #*******************************************************************************
00275>  #  Project Name  : [6150 Thunder Road SWM - Existing Conditions]
00276>  #  Project Number: [2120]
00277>  #  Date          : 2024/08/14
00278>  #  Modeller      : JZ
00279>  #  Company       : J.F. Sabourin and Associates
00280>  #  License #     : 2582634
00281>  #*******************************************************************************
00282>  #*******************************************************************************
00283>  R0050:C00002------------------------------------------------------------------------------
00284>       READ STORM
00285>         Filename = storm.001
00286>         Comment  = CHICAGO STORM  50 Year, 3 Hours
00287>         [SDT=10.00:SDUR=   3.00:PTOT=  64.81]
00288>  ################################################################################
00289>  # Pre-Development Drainage Area
00290>  ################################################################################
00291>  R0050:C00003-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
00292>       CALIB NASHYD           1.0 01:EWS-01        10.62     .161 No_date    2:40   15.76 .243     .000
00293>         [CN= 60.0: N= 3.00: Tp= 1.29]
00294>  R0050:C00004-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
00295>       CALIB NASHYD           1.0 01:EWS-02          .61     .012 No_date    1:44   11.51 .178     .000
00296>         [CN= 50.0: N= 3.00: Tp=  .57]
00297>  ################################################################################
00298>  # STORMS
00299>  ################################################################################
00300>    ** END OF RUN :   98
00301>
00302>  ***********************************************************************************************
00303>
00304>
00305>
00306>
00307>
00308>   RUN#:COMMAND#
00309>  R0099:C00001------------------------------------------------------------------------------
00310>       START
00311>         [TZERO =    .00 hrs on        0]
00312>         [METOUT=   2    (1=imperial, 2=metric output)]
00313>         [NSTORM=   1 ]
00314>         [NRUN  = 0099 ]
00315>  #*******************************************************************************
00316>  #  SWMHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
00317>  #*******************************************************************************
00318>  #  Project Name  : [6150 Thunder Road SWM - Existing Conditions]
00319>  #  Project Number: [2120]
00320>  #  Date          : 2024/08/14
00321>  #  Modeller      : JZ
00322>  #  Company       : J.F. Sabourin and Associates
00323>  #  License #     : 2582634
00324>  #*******************************************************************************
00325>  #*******************************************************************************
00326>  R0099:C00002------------------------------------------------------------------------------
00327>       READ STORM
00328>         Filename = storm.001
00329>         Comment  = CHICAGO STORM  100 Year, 3 Hours
00330>         [SDT=10.00:SDUR=   3.00:PTOT=  71.66]
00331>  ################################################################################
00332>  # Pre-Development Drainage Area
00333>  ################################################################################
00334>  R0099:C00003-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
00335>       CALIB NASHYD           1.0 01:EWS-01        10.62     .194 No_date    2:39   18.99 .265     .000
00336>         [CN= 60.0: N= 3.00: Tp= 1.29]
00337>  R0099:C00004-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
00338>       CALIB NASHYD           1.0 01:EWS-02          .61     .015 No_date    1:43   13.98 .195     .000
00339>         [CN= 50.0: N= 3.00: Tp=  .57]
00340>  ################################################################################
00341>  # STORMS
00342>  ################################################################################
00343>    ** END OF RUN :  101
00344>
00345>  ***********************************************************************************************
00346>
00347>
00348>
00349>
00350>
00351>   RUN#:COMMAND#
00352>  R0102:C00001------------------------------------------------------------------------------
00353>       START
00354>         [TZERO =    .00 hrs on        0]
00355>         [METOUT=   2    (1=imperial, 2=metric output)]
00356>         [NSTORM=   1 ]
00357>         [NRUN  = 0102 ]
00358>  #*******************************************************************************
00359>  #  SWMHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
00360>  #*******************************************************************************
```

```
00361> #  Project Name  : [6150 Thunder Road SWM - Existing Conditions]
00362> #  Project Number: [2120]
00363> #  Date          : 2024/08/14
00364> #  Modeller      : JZ
00365> #  Company       : J.F. Sabourin and Associates
00366> #  License #     : 2582634
00367> #*************************************************************************
00368> #*************************************************************************
00369> R0102:C00002-------------------------------------------------------------------------------
00370>       READ STORM
00371>        Filename = storm.001
00372>        Comment  = 2 years SCS Type 2 Storm 24 Hours step 10 min, City of Ottawa
00373>        [SDT=10.00:SDUR=  24.00:PTOT=  48.46]
00374> ###########################################################################
00375> # Pre-Development Drainage Area
00376> ###########################################################################
00377> R0102:C00003-------------DTmin-ID:NHYD----------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00378>      CALIB NASHYD           1.0 01:EWS-01        10.62     .060 No_date   13:25    9.00 .186     .000
00379>        [CN= 60.0: N= 3.00: Tp= 1.29]
00380> R0102:C00004-------------DTmin-ID:NHYD----------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00381>      CALIB NASHYD           1.0 01:EWS-02          .61     .004 No_date   12:33    6.44 .133     .000
00382>        [CN= 50.0: N= 3.00: Tp=  .57]
00383> ###########################################################################
00384> # STORMS
00385> ###########################################################################
00386>   ** END OF RUN :  104
00387>
00388> ************************************************************************************************
00389>
00390>
00391>
00392>
00393>
00394>  RUN#:COMMAND#
00395> R0105:C00001-------------------------------------------------------------------------------
00396>       START
00397>        [TZERO =    .00 hrs on        0]
00398>        [METOUT=   2    (1=imperial, 2=metric output)]
00399>        [NSTORM=   1 ]
00400>        [NRUN  = 0105 ]
00401> *************************************************************************
00402> #  SWMHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
00403> *************************************************************************
00404> #  Project Name  : [6150 Thunder Road SWM - Existing Conditions]
00405> #  Project Number: [2120]
00406> #  Date          : 2024/08/14
00407> #  Modeller      : JZ
00408> #  Company       : J.F. Sabourin and Associates
00409> #  License #     : 2582634
00410> *************************************************************************
00411> *************************************************************************
00412> R0105:C00002-------------------------------------------------------------------------------
00413>       READ STORM
00414>        Filename = storm.001
00415>        Comment  = 5 years SCS Type 2 Storm 24 Hours step 10 min, City of Ottawa
00416>        [SDT=10.00:SDUR=  24.00:PTOT=  64.11]
00417> ###########################################################################
00418> # Pre-Development Drainage Area
00419> ###########################################################################
00420> R0105:C00003-------------DTmin-ID:NHYD----------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00421>      CALIB NASHYD           1.0 01:EWS-01        10.62     .104 No_date   13:23   15.44 .241     .000
00422>        [CN= 60.0: N= 3.00: Tp= 1.29]
00423> R0105:C00004-------------DTmin-ID:NHYD----------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00424>      CALIB NASHYD           1.0 01:EWS-02          .61     .008 No_date   12:32   11.27 .176     .000
00425>        [CN= 50.0: N= 3.00: Tp=  .57]
00426> ###########################################################################
00427> # STORMS
00428> ###########################################################################
00429>   ** END OF RUN :  109
00430>
00431> ************************************************************************************************
00432>
00433>
00434>
00435>
00436>
00437>  RUN#:COMMAND#
00438> R0110:C00001-------------------------------------------------------------------------------
00439>       START
00440>        [TZERO =    .00 hrs on        0]
00441>        [METOUT=   2    (1=imperial, 2=metric output)]
00442>        [NSTORM=   1 ]
00443>        [NRUN  = 0110 ]
00444> *************************************************************************
00445> #  SWMHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
00446> *************************************************************************
00447> #  Project Name  : [6150 Thunder Road SWM - Existing Conditions]
00448> #  Project Number: [2120]
00449> #  Date          : 2024/08/14
00450> #  Modeller      : JZ
00451> #  Company       : J.F. Sabourin and Associates
00452> #  License #     : 2582634
00453> *************************************************************************
00454> *************************************************************************
00455> R0110:C00002-------------------------------------------------------------------------------
00456>       READ STORM
00457>        Filename = storm.001
00458>        Comment  = 10 years SCS Type 2 Storm 24 Hours step 10 min, City of Ottawa
00459>        [SDT=10.00:SDUR=  24.00:PTOT=  74.35]
00460> ###########################################################################
00461> # Pre-Development Drainage Area
00462> ###########################################################################
00463> R0110:C00003-------------DTmin-ID:NHYD----------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00464>      CALIB NASHYD           1.0 01:EWS-01        10.62     .138 No_date   13:22   20.32 .273     .000
00465>        [CN= 60.0: N= 3.00: Tp= 1.29]
00466> R0110:C00004-------------DTmin-ID:NHYD----------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00467>      CALIB NASHYD           1.0 01:EWS-02          .61     .010 No_date   12:32   15.00 .202     .000
00468>        [CN= 50.0: N= 3.00: Tp=  .57]
00469> ###########################################################################
00470> # STORMS
00471> ###########################################################################
00472>   ** END OF RUN :  124
00473>
00474> ************************************************************************************************
00475>
00476>
00477>
00478>
00479>
00480>  RUN#:COMMAND#
00481> R0125:C00001-------------------------------------------------------------------------------
00482>       START
00483>        [TZERO =    .00 hrs on        0]
00484>        [METOUT=   2    (1=imperial, 2=metric output)]
00485>        [NSTORM=   1 ]
00486>        [NRUN  = 0125 ]
00487> *************************************************************************
00488> #  SWMHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
00489> *************************************************************************
00490> #  Project Name  : [6150 Thunder Road SWM - Existing Conditions]
00491> #  Project Number: [2120]
00492> #  Date          : 2024/08/14
00493> #  Modeller      : JZ
00494> #  Company       : J.F. Sabourin and Associates
00495> #  License #     : 2582634
00496> *************************************************************************
00497> *************************************************************************
00498> R0125:C00002-------------------------------------------------------------------------------
00499>       READ STORM
00500>        Filename = storm.001
00501>        Comment  = 25 years SCS Type 2 Storm 24 Hours step 10 min, City of Ottawa
00502>        [SDT=10.00:SDUR=  24.00:PTOT=  86.89]
00503> ###########################################################################
00504> # Pre-Development Drainage Area
00505> ###########################################################################
00506> R0125:C00003-------------DTmin-ID:NHYD----------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00507>      CALIB NASHYD           1.0 01:EWS-01        10.62     .184 No_date   13:22   26.87 .309     .000
00508>        [CN= 60.0: N= 3.00: Tp= 1.29]
00509> R0125:C00004-------------DTmin-ID:NHYD----------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00510>      CALIB NASHYD           1.0 01:EWS-02          .61     .014 No_date   12:32   20.10 .231     .000
00511>        [CN= 50.0: N= 3.00: Tp=  .57]
00512> ###########################################################################
00513> # STORMS
00514> ###########################################################################
00515>   ** END OF RUN :  149
00516>
00517> ************************************************************************************************
00518>
00519>
00520>
00521>
00522>
00523>  RUN#:COMMAND#
00524> R0150:C00001-------------------------------------------------------------------------------
00525>       START
00526>        [TZERO =    .00 hrs on        0]
00527>        [METOUT=   2    (1=imperial, 2=metric output)]
00528>        [NSTORM=   1 ]
00529>        [NRUN  = 0150 ]
00530> *************************************************************************
00531> #  SWMHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
00532> *************************************************************************
00533> #  Project Name  : [6150 Thunder Road SWM - Existing Conditions]
00534> #  Project Number: [2120]
00535> #  Date          : 2024/08/14
00536> #  Modeller      : JZ
00537> #  Company       : J.F. Sabourin and Associates
00538> #  License #     : 2582634
00539> *************************************************************************
00540> *************************************************************************
00541> R0150:C00002-------------------------------------------------------------------------------
00542>       READ STORM
00543>        Filename = storm.001
00544>        Comment  = 50 years SCS Type 2 Storm 24 Hours step 10 min, City of Ottawa
00545>        [SDT=10.00:SDUR=  24.00:PTOT=  96.53]
00546> ###########################################################################
00547> # Pre-Development Drainage Area
00548> ###########################################################################
00549> R0150:C00003-------------DTmin-ID:NHYD----------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00550>      CALIB NASHYD           1.0 01:EWS-01        10.62     .222 No_date   13:21   32.30 .335     .000
00551>        [CN= 60.0: N= 3.00: Tp= 1.29]
00552> R0150:C00004-------------DTmin-ID:NHYD----------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00553>      CALIB NASHYD           1.0 01:EWS-02          .61     .017 No_date   12:31   24.39 .253     .000
00554>        [CN= 50.0: N= 3.00: Tp=  .57]
00555> ###########################################################################
00556> # STORMS
00557> ###########################################################################
00558>   ** END OF RUN :  198
00559>
00560> ************************************************************************************************
00561>
00562>
00563>
00564>
00565>
00566>  RUN#:COMMAND#
00567> R0199:C00001-------------------------------------------------------------------------------
00568>       START
00569>        [TZERO =    .00 hrs on        0]
00570>        [METOUT=   2    (1=imperial, 2=metric output)]
00571>        [NSTORM=   1 ]
00572>        [NRUN  = 0199 ]
00573> *************************************************************************
00574> #  SWMHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
00575> *************************************************************************
00576> #  Project Name  : [6150 Thunder Road SWM - Existing Conditions]
00577> #  Project Number: [2120]
00578> #  Date          : 2024/08/14
00579> #  Modeller      : JZ
00580> #  Company       : J.F. Sabourin and Associates
00581> #  License #     : 2582634
00582> *************************************************************************
00583> *************************************************************************
00584> R0199:C00002-------------------------------------------------------------------------------
00585>       READ STORM
00586>        Filename = storm.001
00587>        Comment  = 100 years SCS Type 2 Storm 24 Hours step 10 min, City of Ottawa
00588>        [SDT=10.00:SDUR=  24.00:PTOT= 106.73]
00589> ###########################################################################
00590> # Pre-Development Drainage Area
00591> ###########################################################################
00592> R0199:C00003-------------DTmin-ID:NHYD----------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00593>      CALIB NASHYD           1.0 01:EWS-01        10.62     .265 No_date   13:21   38.38 .360     .000
00594>        [CN= 60.0: N= 3.00: Tp= 1.29]
00595> R0199:C00004-------------DTmin-ID:NHYD----------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00596>      CALIB NASHYD           1.0 01:EWS-02          .61     .021 No_date   12:31   29.25 .274     .000
00597>        [CN= 50.0: N= 3.00: Tp=  .57]
00598> ###########################################################################
00599> # STORMS
00600> ###########################################################################
00601>   ** END OF RUN :  998
00602>
00603> ************************************************************************************************
00604>
00605>
00606>
00607>
00608>
00609>  RUN#:COMMAND#
00610> R0999:C00001-------------------------------------------------------------------------------
00611>       START
00612>        [TZERO =    .00 hrs on        0]
00613>        [METOUT=   2    (1=imperial, 2=metric output)]
00614>        [NSTORM=   1 ]
00615>        [NRUN  = 0999 ]
00616> *************************************************************************
00617> #  SWMHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
00618> *************************************************************************
00619> #  Project Name  : [6150 Thunder Road SWM - Existing Conditions]
00620> #  Project Number: [2120]
00621> #  Date          : 2024/08/14
00622> #  Modeller      : JZ
00623> #  Company       : J.F. Sabourin and Associates
00624> #  License #     : 2582634
00625> *************************************************************************
00626> *************************************************************************
00627> R0999:C00002-------------------------------------------------------------------------------
00628>       READ STORM
00629>        Filename = storm.001
00630>        Comment  = CHICAGO STORM   100 Year, 3 Hours  +20% Stress Test
00631>        [SDT=10.00:SDUR=   3.00:PTOT=  86.00]
00632> ###########################################################################
00633> # Pre-Development Drainage Area
00634> ###########################################################################
00635> R0999:C00003-------------DTmin-ID:NHYD----------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00636>      CALIB NASHYD           1.0 01:EWS-01        10.62     .271 No_date    2:38   26.39 .307     .000
00637>        [CN= 60.0: N= 3.00: Tp= 1.29]
00638> R0999:C00004-------------DTmin-ID:NHYD----------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00639>      CALIB NASHYD           1.0 01:EWS-02          .61     .021 No_date    1:43   19.72 .229     .000
00640>        [CN= 50.0: N= 3.00: Tp=  .57]
00641> ###########################################################################
00642> # STORMS
00643> ###########################################################################
00644> R0999:C00002-------------------------------------------------------------------------------
00645>      FINISH
00646> -------------------------------------------------------------------------------
00647> ************************************************************************************************
00648>      WARNINGS / ERRORS / NOTES
00649>      -------------------------
00650>   Simulation ended on 2024-08-14     at 17:11:41
00651> ===============================================================================================
00652>
```

JFSA
WATER RESOURCES AND ENVIRONMENTAL CONSULTANTS

Ottawa. ON
Paris. ON
Gatineau. QC
Montréal. QC
Québec. QC

Appendix B

Post Development Model

(PCSWMM)

N

Legend

- Subcatchments
  - <Name>
  - <Area (ha)>
  - <% Imp>
- Site Plan

SCALE: 1:3000

0 50 100 m

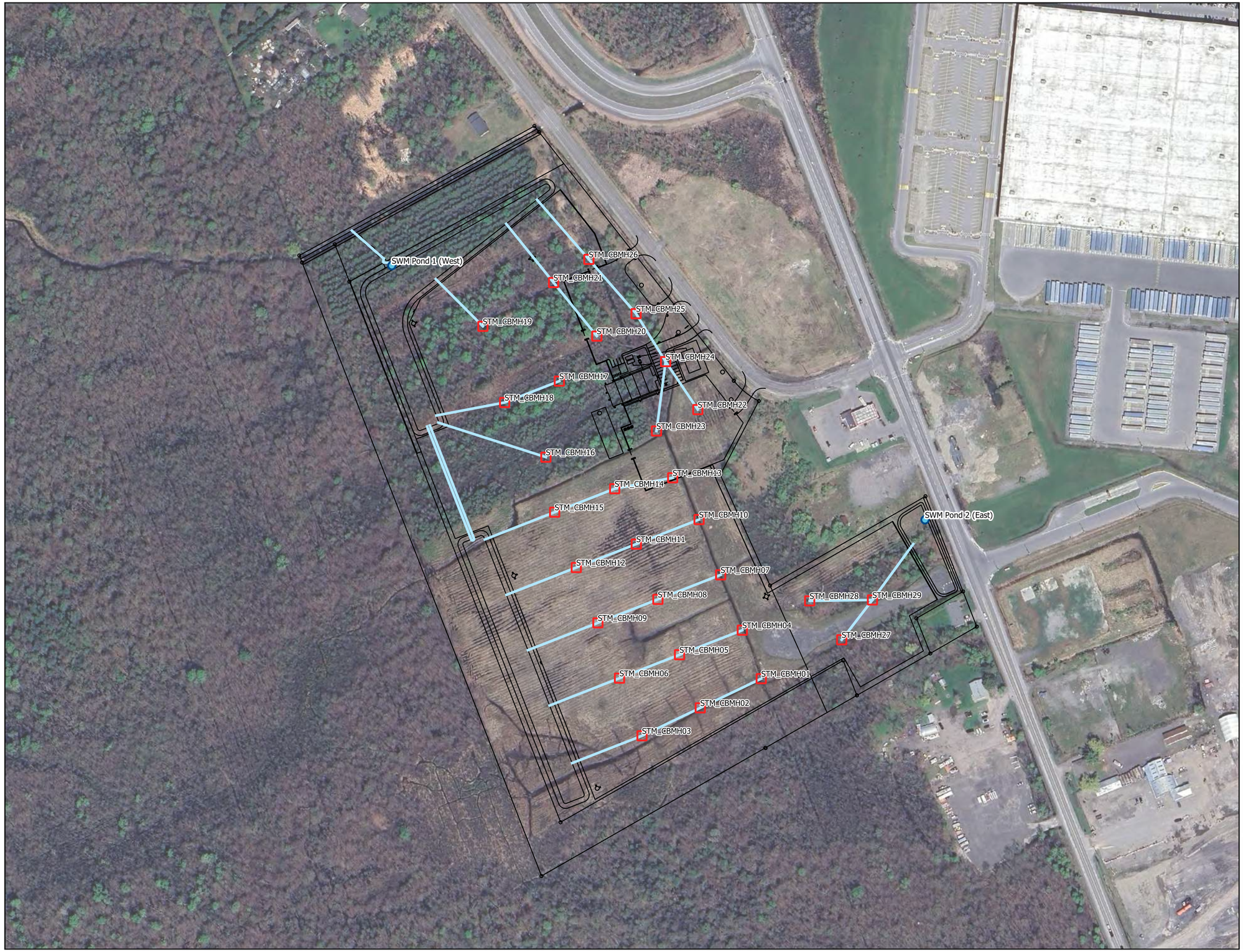
J.F. Sabourin and Associates Inc.
WATER RESOURCES AND ENVIRONMENTAL CONSULTANTS
52 Springbrook Drive
Ottawa, ON, K2S 1B9
(613) 836-3884
www.jfsa.com

Thunder Road Partnership

6150 Thunder Road SWM Report

Figure B1: Subcatchments

PROJECT	2120(01)-21
DRAWN	JZ
DATE	AUGUST 2024



N

Legend

- CBMH
- Outlet
- Minor System Conduits
- Site Plan

SCALE: 1:3000

0 50 100 m

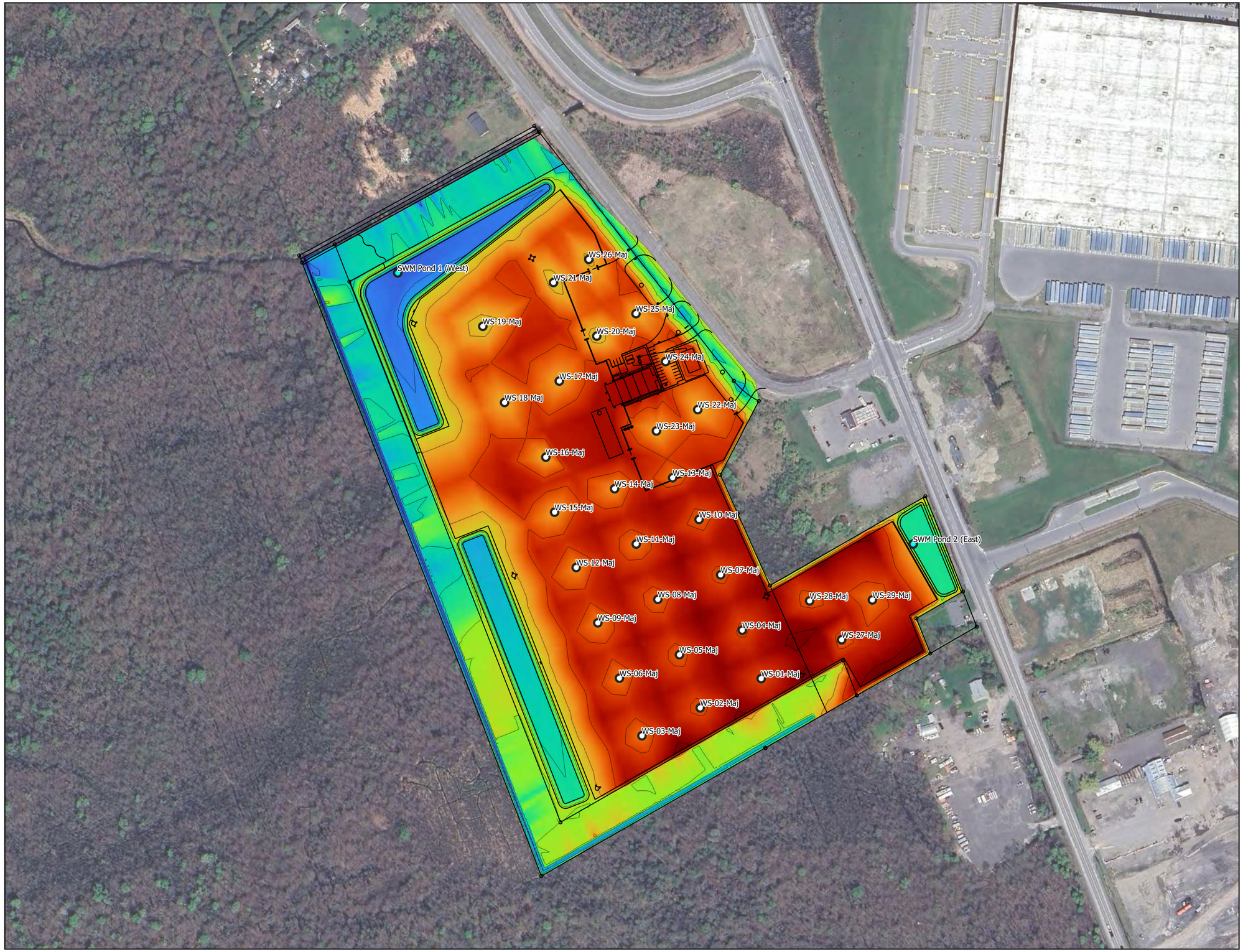
J.F. Sabourin and Associates Inc.
WATER RESOURCES AND ENVIRONMENTAL CONSULTANTS
52 Springbrook Drive
Ottawa, ON, K2S 1B9
(613) 836-3884
www.jfsa.com

Thunder Road Partnership

6150 Thunder Road SWM Report

Figure B2: Minor System

PROJECT	2120(01)-21
DRAWN	JZ
DATE	AUGUST 2024



N

Legend

- Major System
- Ponds

PROPOSED TERRAIN

78.6
75.4

- Contours (0.5m)
- Site Plan

SCALE: 1:3000

0 50 100 m

J.F. Sabourin and Associates Inc.
WATER RESOURCES AND ENVIRONMENTAL CONSULTANTS
52 Springbrook Drive
Ottawa, ON, K2S 1B9
(613) 836-3884
www.jfsa.com

Thunder Road Partnership

6150 Thunder Road SWM Report

Figure B3: Major System

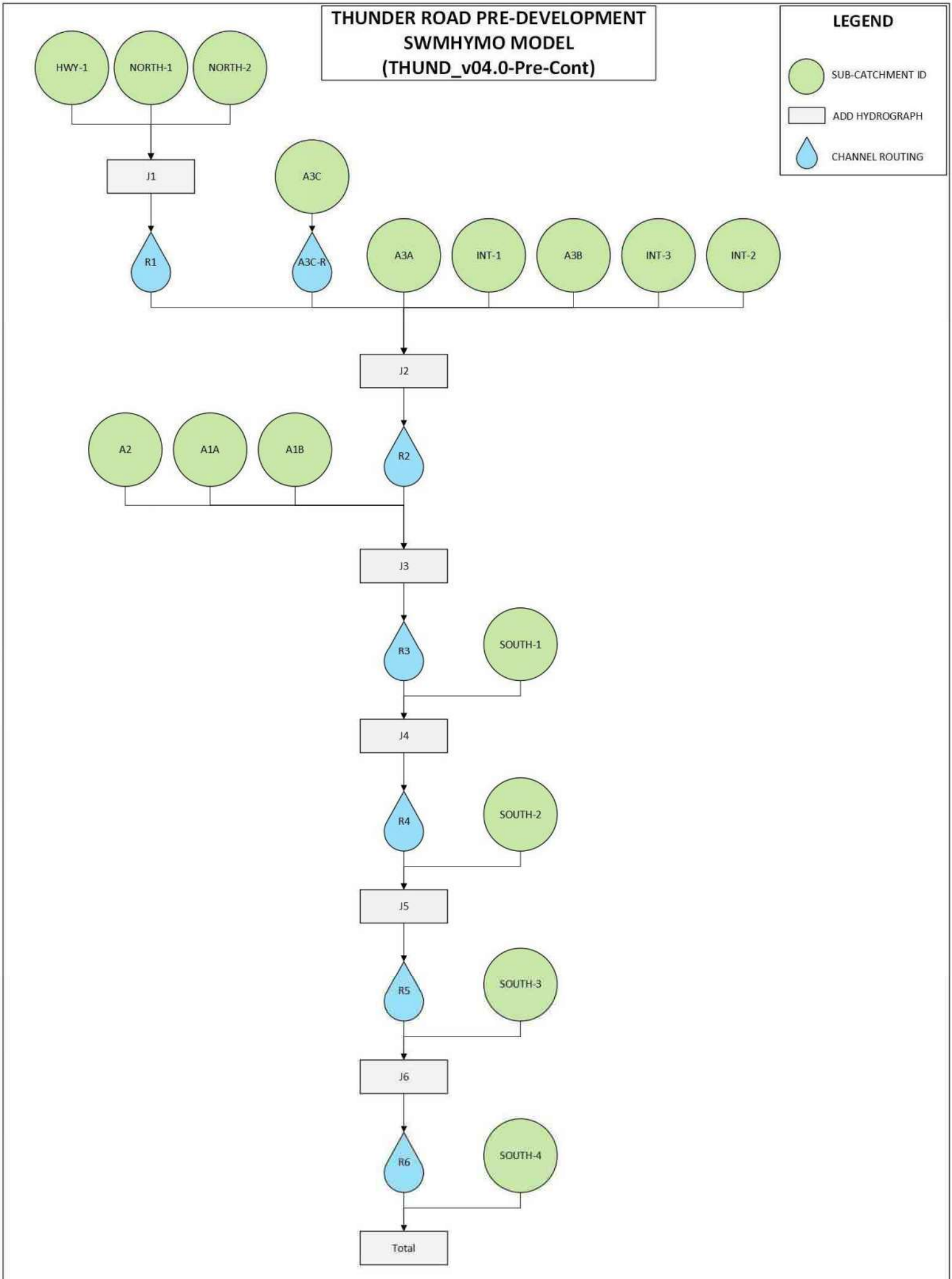
PROJECT	2120(01)-21
DRAWN	JZ
DATE	AUGUST 2024

JFSA
WATER RESOURCES AND ENVIRONMENTAL CONSULTANTS

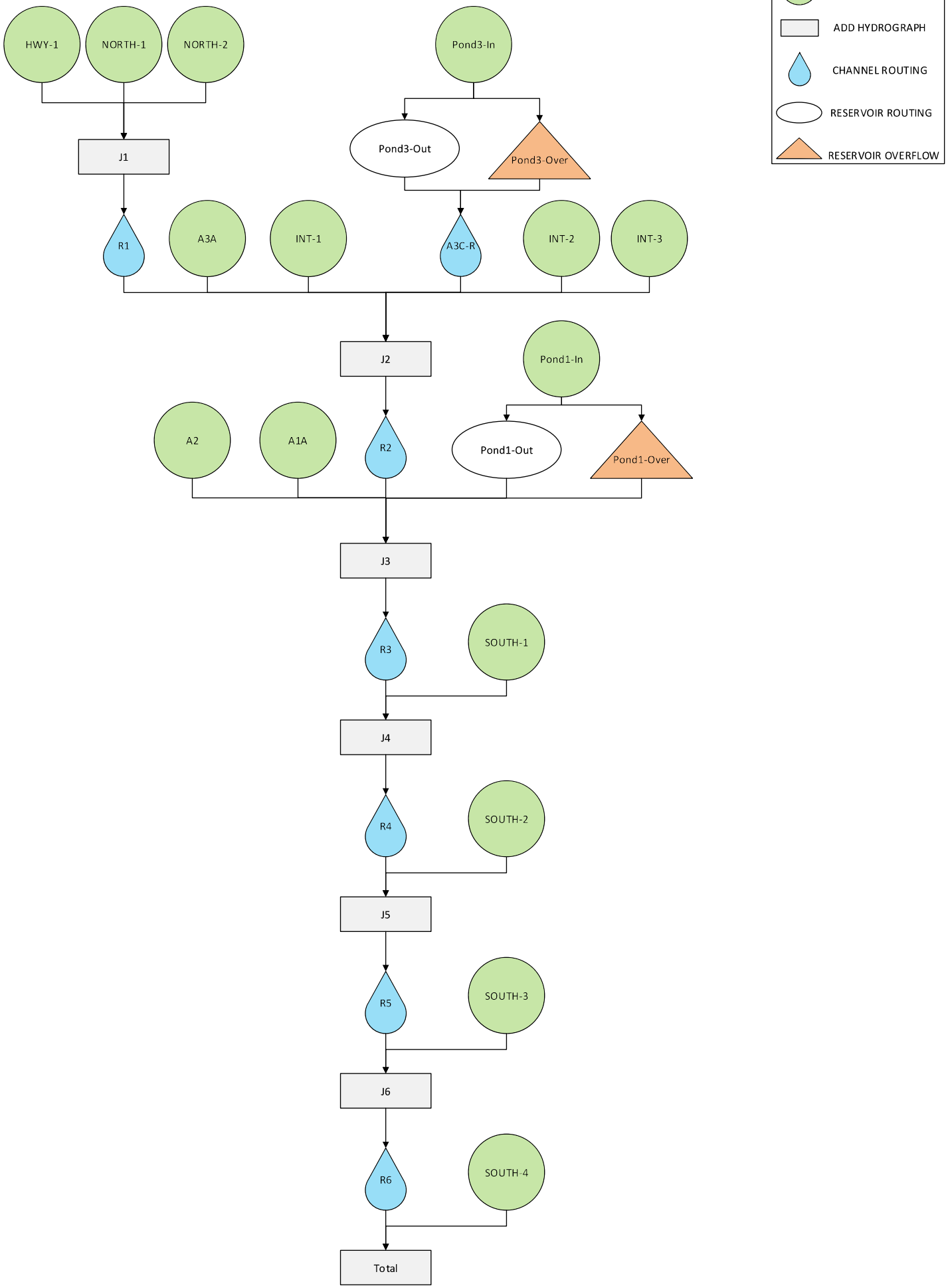
Ottawa. ON
Paris. ON
Gatineau. QC
Montréal. QC
Québec. QC

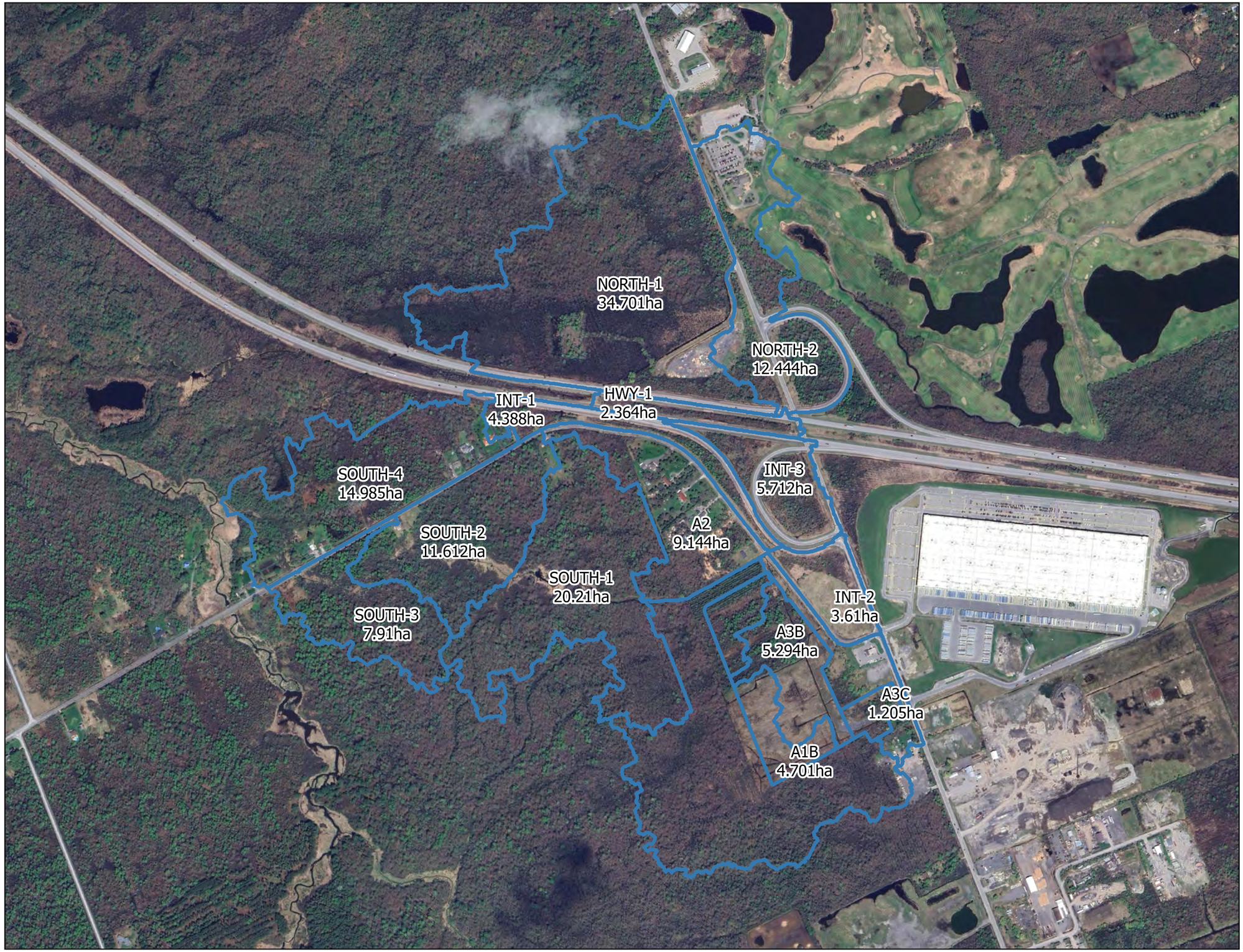
Appendix C

Erosion Analysis


THUNDER ROAD PRE-DEVELOPMENT
SWMHYMO MODEL
(THUND_v04.0-Pre-Cont)
LEGEND
SUB-CATCHMENT ID
ADD HYDROGRAPH
CHANNEL ROUTING
HWY-1
NORTH-1
NORTH-2
J1
A3C
R1
A3C-R
A3A
INT-1
A3B
INT-3
INT-2
J2
A2
A1A
A1B
R2
J3
R3
SOUTH-1
J4
R4
SOUTH-2
J5
R5
SOUTH-3
J6
R6
SOUTH-4
Total

THUNDER ROAD POST-DEVELOPMENT SWMHYMO MODEL (THUND_v04.0-Post-Cont)





N

Legend

Drainage Areas
[Name]
[Areas]

SCALE: 1:9000

0 200 400 m

J.F. Sabourin and Associates Inc.
WATER RESOURCES AND ENVIRONMENTAL CONSULTANTS
52 Springbrook Drive
Ottawa, ON, K2S 1B9
(613) 836-3884
www.jfsa.com

Thunder Road Partnership

6150 Thunder Road

Figure C1 - Drainage Areas

PROJECT	2120(01)-21
DRAWN	JZ
DATE	AUG 2024

C:\Users\JoeyZaborski\J.F. Sabourin and Associates Inc\JFSA-OTTAWA-SERVER - Documents\PROJ\2120(01)-21\202405-Detailed Design Subm 1\Design\GIS\20240727-Updated Erosion Model Build

N

Legend

- Drainage Areas

Land Use

- Treed Swamp
- Plantation
- Transportation
- Built Up Area - Impervious
- Deciduous Forest
- Built Up Area - Pervious
- Tilled
- Forest

SCALE: 1:9000

0 200 400 m

J.F. Sabourin and Associates Inc.
WATER RESOURCES AND ENVIRONMENTAL CONSULTANTS
52 Springbrook Drive
Ottawa, ON, K2S 1B9
(613) 836-3884
www.jfsa.com

Thunder Road Partnership

6150 Thunder Road

Figure C2 - Land Use

PROJECT	2120(01)-21
DRAWN	JZ
DATE	AUG 2024

N

Legend

- Drainage Areas

Soil Type

- ALLENDALE (C)
- CHENEY (C)
- ERODED CHANNEL (N)

SCALE: 1:9000

0 200 400 m

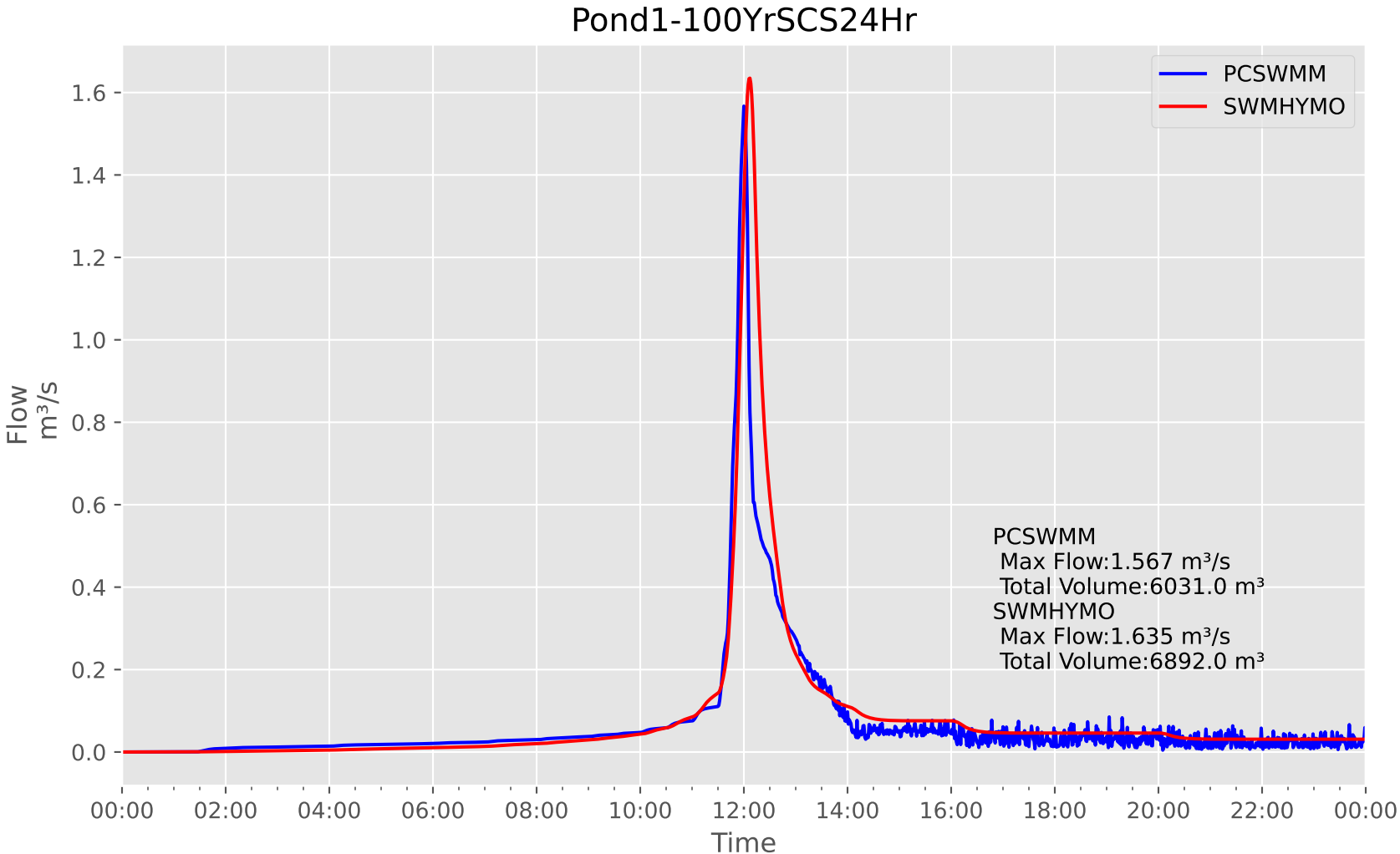
J.F. Sabourin and Associates Inc.
WATER RESOURCES AND ENVIRONMENTAL CONSULTANTS
52 Springbrook Drive
Ottawa, ON, K2S 1B9
(613) 836-3884
www.jfsa.com

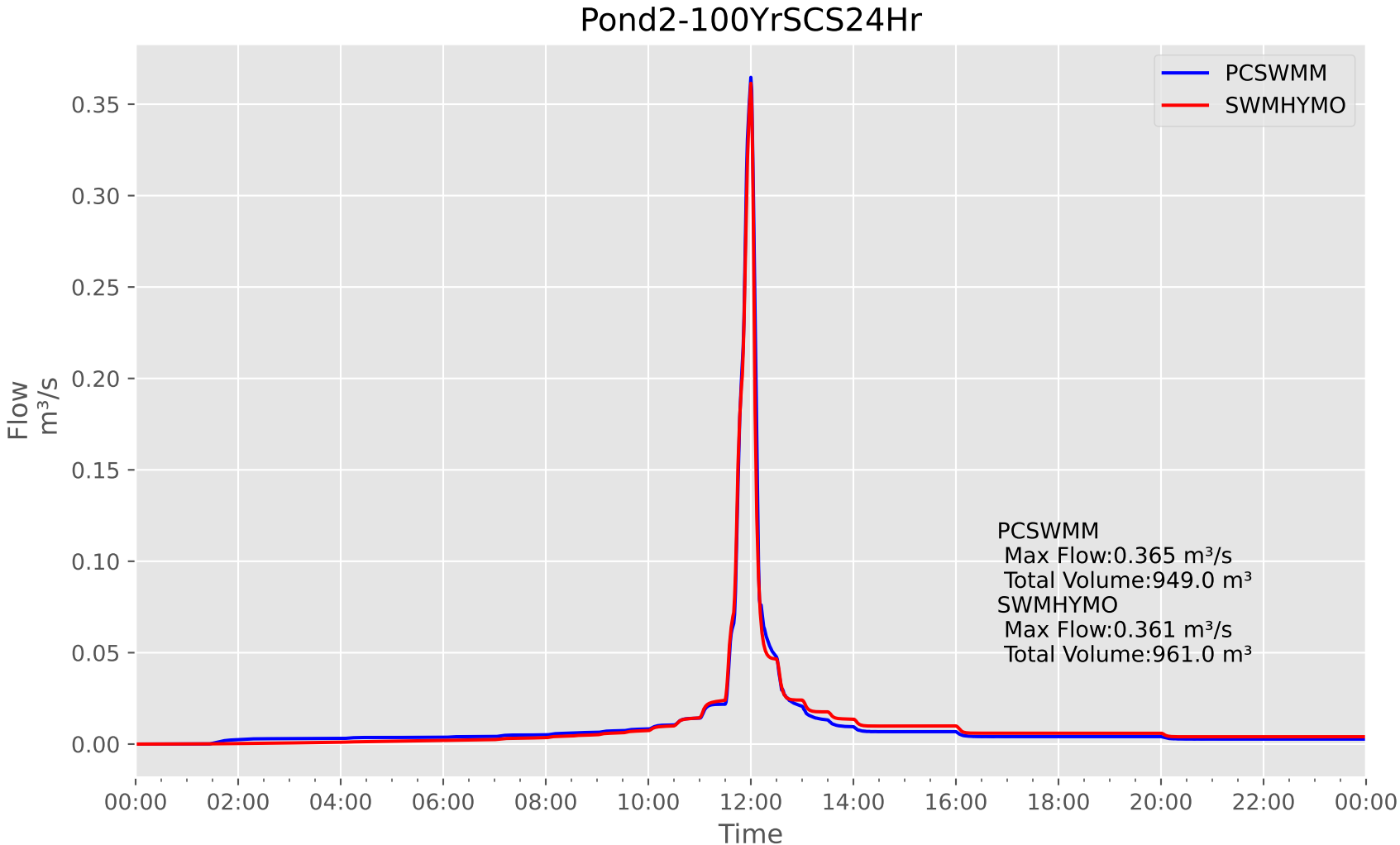
Thunder Road Partnership

6150 Thunder Road

Figure C3 - Soils

PROJECT	2120(01)-21
DRAWN	JZ
DATE	AUG 2024


Pond1-100YrSCS24Hr
PCSWMM
SWMHYMO
PCSWMM
Max Flow:1.567 m³/s
Total Volume:6031.0 m³
SWMHYMO
Max Flow:1.635 m³/s
Total Volume:6892.0 m³
Flow
m³/s
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
00:00
02:00
04:00
06:00
08:00
10:00
12:00
14:00
16:00
18:00
20:00
22:00
00:00
Time


Pond2-100YrSCS24Hr
PCSWMM
SWMHYMO
PCSWMM
Max Flow:0.365 m³/s
Total Volume:949.0 m³
SWMHYMO
Max Flow:0.361 m³/s
Total Volume:961.0 m³
Flow
m³/s
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
00:00
02:00
04:00
06:00
08:00
10:00
12:00
14:00
16:00
18:00
20:00
22:00
00:00
Time

```
20    Metric units / ID numbers OFF
*#*************************************************************************
*#  SWMHYMO  / INPUT DATA FILE
*#*************************************************************************
*#  Project Name: [THUNDER ROAD]    Project Number: [2128]
*#  Date        : 04-28-2021
*#  Modeller    : [J.B]
*#  Company     : JFSAinc.
*#  License #   :  2549237
*#*************************************************************************
* Model Developed to assess the post development erosion/hydrologic conditions on the
Bear Brook
* tributary near 6150 Thunder Road
*#*************************************************************************
*#*************************************************************************
START                TZERO=[1967.0101],  METOUT=[2],  NSTORM=[0],  NRUN=[1967]
*%                    [""] <--storm filename, one per line for NSTORM time
*%-----------------|-------------------------------------------------------|
*# Ottawa International Airport - April 1st to October 31st
READ AES DATA        AES_FILENAME=["YOW_1967_2007.123"],
                     IELEM=[123], START_DATE=[0], END_DATE=[-213]
*%-----------------|-------------------------------------------------------|
COMPUTE API          APII=[50], APIK=[0.90]/day
*%-----------------|-------------------------------------------------------|
* DRAINAGE AREAS NORTH OF HIGHWAY
*%-----------------|-------------------------------------------------------|
CONTINUOUS NASHYD    NHYD=["NORTH-1"], DT=[5](min), AREA=[34.701](ha),
                     DWF=[0](cms), CN/C=[38.1], IA=[4.67](mm), N=[3], TP=[4.12](hrs),
                     Continuous simulation parameters:
                     IaRECper=[6](hrs),
                     SMIN=[-1](mm),  SMAX=[-1](mm), SK=[0.03]/(mm),
                     InterEventTime=[12](hrs),
                     Baseflow simulation parameters:
                     BaseFlowOption=[1] , InitGWResVol=[12](mm), GWResK=[0.95](mm/day/mm),
                     VHydCond=[.02](mm/hr), END=-1
*%-----------------|-------------------------------------------------------|
CONTINUOUS NASHYD    NHYD=["NORTH-2"], DT=[5](min), AREA=[12.444](ha),
                     DWF=[0](cms), CN/C=[53.0], IA=[4.67](mm), N=[3], TP=[1.29](hrs),
                     Continuous simulation parameters:
                     IaRECper=[6](hrs),
                     SMIN=[-1](mm),  SMAX=[-1](mm), SK=[0.03]/(mm),
                     InterEventTime=[12](hrs),
                     Baseflow simulation parameters:
                     BaseFlowOption=[1] , InitGWResVol=[12](mm), GWResK=[0.95](mm/day/mm),
                     VHydCond=[.02](mm/hr), END=-1
*%-----------------|-------------------------------------------------------|
CONTINUOUS NASHYD    NHYD=["HWY-1"], DT=[5](min), AREA=[2.364](ha),
                     DWF=[0](cms), CN/C=[81.7], IA=[4.67](mm), N=[3], TP=[1.21 ](hrs),
                     Continuous simulation parameters:
                     IaRECper=[6](hrs),
                     SMIN=[-1](mm),  SMAX=[-1](mm), SK=[0.03]/(mm),
                     InterEventTime=[12](hrs),
                     Baseflow simulation parameters:
                     BaseFlowOption=[1] , InitGWResVol=[12](mm), GWResK=[0.95](mm/day/mm),
                     VHydCond=[.02](mm/hr), END=-1
*%-----------------|-------------------------------------------------------|
*ADD AREAS UPSTREAM OF HIGHWAY
ADD HYD              NHYDsum=["J1"], NHYDs to add=["NORTH-1"+"NORTH-2"+"HWY-1"]
*%-----------------|-------------------------------------------------------|
* ROUTE UPSTREM FLOWS TO THUNDER ROAD
ROUTE CHANNEL        NHYDout=["R1"], NHYDin=["J1"],  RDT=[5](min),
                     CHLGTH=[ 478 ](m),  CHSLOPE=[0.44](%), FPSLOPE=[0.44](%),
                     SECNUM=[ 1 ],       NSEG=[ 3 ]
                     ( SEGROUGH, SEGDIST (m))=[0.05, 2.49, -0.035, 8.73, 0.05, 26.18] NSEG
                      times
                     ( DISTANCE (m), ELEVATION (m))=[0,76.83]
                                                    [1.25,76.8]
                                                    [2.49,76.64]
                                                    [3.74,76.45]
```

```
                                                                [4.99,76.22]
                                                                [6.23,76.3]
                                                                [7.48,76.52]
                                                                [8.73,76.58]
                                                                [9.97,76.61]
                                                                [22.44,76.62]
                                                                [23.69,76.7]
                                                                [24.93,76.75]
                                                                [26.18,76.85]
*%-----------------|-------------------------------------------------------------|
* DRAINAGE AREAS AROUND HIGHWAY INTERCHANGE
*%-----------------|-------------------------------------------------------------|
CONTINUOUS NASHYD   NHYD=["INT-1"], DT=[5](min), AREA=[4.388](ha),
                    DWF=[0](cms), CN/C=[60.4 ], IA=[4.67](mm), N=[3], TP=[1.66 ](hrs),
                    Continuous simulation parameters:
                    IaRECper=[6](hrs),
                    SMIN=[-1](mm),  SMAX=[-1](mm), SK=[0.03]/(mm),
                    InterEventTime=[12](hrs),
                    Baseflow simulation parameters:
                    BaseFlowOption=[1] , InitGWResVol=[12](mm), GWResK=[0.95](mm/day/mm),
                    VHydCond=[.02](mm/hr), END=-1
*%-----------------|-------------------------------------------------------------|
CONTINUOUS NASHYD   NHYD=["INT-2"], DT=[5](min), AREA=[3.61](ha),
                    DWF=[0](cms), CN/C=[47.4 ], IA=[4.67](mm), N=[3], TP=[0.95 ](hrs),
                    Continuous simulation parameters:
                    IaRECper=[6](hrs),
                    SMIN=[-1](mm),  SMAX=[-1](mm), SK=[0.03]/(mm),
                    InterEventTime=[12](hrs),
                    Baseflow simulation parameters:
                    BaseFlowOption=[1] , InitGWResVol=[12](mm), GWResK=[0.95](mm/day/mm),
                    VHydCond=[.02](mm/hr), END=-1
*%-----------------|-------------------------------------------------------------|
CONTINUOUS NASHYD   NHYD=["A3A"], DT=[5](min), AREA=[3.84](ha),
                    DWF=[0](cms), CN/C=[58.4 ], IA=[4.67](mm), N=[3], TP=[1.46 ](hrs),
                    Continuous simulation parameters:
                    IaRECper=[6](hrs),
                    SMIN=[-1](mm),  SMAX=[-1](mm), SK=[0.03]/(mm),
                    InterEventTime=[12](hrs),
                    Baseflow simulation parameters:
                    BaseFlowOption=[1] , InitGWResVol=[12](mm), GWResK=[0.95](mm/day/mm),
                    VHydCond=[.02](mm/hr), END=-1
*%-----------------|-------------------------------------------------------------|
CONTINUOUS NASHYD   NHYD=["A3B"], DT=[5](min), AREA=[5.294](ha),
                    DWF=[0](cms), CN/C=[42.6], IA=[4.67](mm), N=[3], TP=[1.26 ](hrs),
                    Continuous simulation parameters:
                    IaRECper=[6](hrs),
                    SMIN=[-1](mm),  SMAX=[-1](mm), SK=[0.03]/(mm),
                    InterEventTime=[12](hrs),
                    Baseflow simulation parameters:
                    BaseFlowOption=[1] , InitGWResVol=[12](mm), GWResK=[0.95](mm/day/mm),
                    VHydCond=[.02](mm/hr), END=-1
*%-----------------|-------------------------------------------------------------|
CONTINUOUS NASHYD   NHYD=["A3C"], DT=[5](min), AREA=[1.205](ha),
                    DWF=[0](cms), CN/C=[37.8 ], IA=[4.67](mm), N=[3], TP=[0.87 ](hrs),
                    Continuous simulation parameters:
                    IaRECper=[6](hrs),
                    SMIN=[-1](mm),  SMAX=[-1](mm), SK=[0.03]/(mm),
                    InterEventTime=[12](hrs),
                    Baseflow simulation parameters:
                    BaseFlowOption=[1] , InitGWResVol=[12](mm), GWResK=[0.95](mm/day/mm),
                    VHydCond=[.02](mm/hr), END=-1
*%-----------------|-------------------------------------------------------------|
*Route runoff from north site lands through road side ditch (500m @ 0.14%)
ROUTE CHANNEL       NHYDout=["A3C-R"], NHYDin=["A3C"],  RDT=[5](min),
                    CHLGTH=[ 500 ](m),  CHSLOPE=[0.14](%), FPSLOPE=[0.14](%),
                    SECNUM=[ 1 ],       NSEG=[ 3 ]
                    ( SEGROUGH, SEGDIST (m))=[0.05, 2.95, -0.035, 7.38, 0.05, 10.33] NSEG
                     times
                    ( DISTANCE (m), ELEVATION (m))= [0.00, 76.58]
```

```
                                                        [1.48, 76.57]
                                                        [2.95, 76.49]
                                                        [4.43, 76.15]
                                                        [5.90, 76.11]
                                                        [7.38, 76.58]
                                                        [8.85, 76.95]
                                                        [10.33, 77.20]
                                                        [-1,-1]
*%-----------------|-------------------------------------------------------------|
CONTINUOUS NASHYD   NHYD=["INT-3"], DT=[5](min), AREA=[5.712](ha),
                    DWF=[0](cms), CN/C=[58.5 ], IA=[4.67](mm), N=[3], TP=[0.89 ](hrs),
                    Continuous simulation parameters:
                    IaRECper=[6](hrs),
                    SMIN=[-1](mm),  SMAX=[-1](mm), SK=[0.03]/(mm),
                    InterEventTime=[12](hrs),
                    Baseflow simulation parameters:
                    BaseFlowOption=[1] , InitGWResVol=[12](mm), GWResK=[0.95](mm/day/mm),
                    VHydCond=[.02](mm/hr), END=-1
*%-----------------|-------------------------------------------------------------|
ADD HYD             NHYDsum=["J2"], NHYDs to
add=["R1"+"INT-1"+"INT-2"+"INT-3"+"A3A"+"A3B"+"A3C-R"]
*%-----------------|-------------------------------------------------------------|
ROUTE CHANNEL       NHYDout=["R2"], NHYDin=["J2"],  RDT=[5](min),
                    CHLGTH=[ 359 ](m),  CHSLOPE=[0.56](%), FPSLOPE=[0.56](%),
                    SECNUM=[ 1 ],       NSEG=[ 3 ]
                    ( SEGROUGH, SEGDIST (m))=[0.05, 15.18, -0.035, 25.29, 0.05, 30.35]
                    NSEG times
                    ( DISTANCE (m), ELEVATION (m))=[0,77.2]
                                                   [1.26,77.14]
                                                   [2.53,77.09]
                                                   [6.32,77.02]
                                                   [7.59,77.01]
                                                   [8.85,76.99]
                                                   [11.38,76.96]
                                                   [13.91,76.92]
                                                   [15.18,76.86]
                                                   [16.44,76.63]
                                                   [17.71,76.28]
                                                   [18.97,76.24]
                                                   [20.23,76.23]
                                                   [21.5,76.33]
                                                   [22.76,76.62]
                                                   [24.03,76.73]
                                                   [25.29,76.8]
                                                   [27.82,76.8]
                                                   [29.09,76.81]
                                                   [30.35,77]
                                                   [-1,-1]
*%-----------------|-------------------------------------------------------------|
* DRAINAGE AREAS DOPWNSTREAM OF THUNDERROAD
*%-----------------|-------------------------------------------------------------|
CONTINUOUS NASHYD   NHYD=["A1A"], DT=[5](min), AREA=[21.435](ha),
                    DWF=[0](cms), CN/C=[36.1 ], IA=[4.67](mm), N=[3], TP=[1.68](hrs),
                    Continuous simulation parameters:
                    IaRECper=[6](hrs),
                    SMIN=[-1](mm),  SMAX=[-1](mm), SK=[0.03]/(mm),
                    InterEventTime=[12](hrs),
                    Baseflow simulation parameters:
                    BaseFlowOption=[1] , InitGWResVol=[12](mm), GWResK=[0.95](mm/day/mm),
                    VHydCond=[.02](mm/hr), END=-1
*%-----------------|-------------------------------------------------------------|
CONTINUOUS NASHYD   NHYD=["A1B"], DT=[5](min), AREA=[4.701](ha),
                    DWF=[0](cms), CN/C=[44.6 ], IA=[4.67](mm), N=[3], TP=[1.72 ](hrs),
                    Continuous simulation parameters:
                    IaRECper=[6](hrs),
                    SMIN=[-1](mm),  SMAX=[-1](mm), SK=[0.03]/(mm),
                    InterEventTime=[12](hrs),
                    Baseflow simulation parameters:
                    BaseFlowOption=[1] , InitGWResVol=[12](mm), GWResK=[0.95](mm/day/mm),
```

```
                    VHydCond=[.02](mm/hr), END=-1
*%-----------------|---------------------------------------------------------|
CONTINUOUS NASHYD   NHYD=["A2"], DT=[5](min), AREA=[9.144](ha),
                    DWF=[0](cms), CN/C=[68.4 ], IA=[4.67](mm), N=[3], TP=[1.12 ](hrs),
                    Continuous simulation parameters:
                    IaRECper=[6](hrs),
                    SMIN=[-1](mm),  SMAX=[-1](mm), SK=[0.03]/(mm),
                    InterEventTime=[12](hrs),
                    Baseflow simulation parameters:
                    BaseFlowOption=[1] , InitGWResVol=[12](mm), GWResK=[0.95](mm/day/mm),
                    VHydCond=[.02](mm/hr), END=-1
*%-----------------|---------------------------------------------------------|
ADD HYD             NHYDsum=["J3"], NHYDs to add=["R2"+"A1A"+"A1B"+"A2"]
*%-----------------|---------------------------------------------------------|
ROUTE CHANNEL       NHYDout=["R3"], NHYDin=["J3"],  RDT=[5](min),
                    CHLGTH=[ 396 ](m),  CHSLOPE=[0.305](%), FPSLOPE=[0.305](%),
                    SECNUM=[ 1 ],       NSEG=[ 3 ]
                    ( SEGROUGH, SEGDIST (m))=[0.05, 20.3, -0.035, 25.43, 0.05, 43.65]
                    NSEG times
                    ( DISTANCE (m), ELEVATION (m))=[0,75.94]
                                                  [5.08,75.73]
                                                  [10.15,75.63]
                                                  [15.23,75.56]
                                                  [20.3,75.36]
                                                  [21.32,75.15]
                                                  [22.33,75.04]
                                                  [23.35,74.98]
                                                  [24.36,75.13]
                                                  [25.38,75.21]
                                                  [30.45,75.36]
                                                  [35.53,75.5]
                                                  [40.61,75.85]
                                                  [43.65,76.04]
                                                  [-1,-1]
*%-----------------|---------------------------------------------------------|
CONTINUOUS NASHYD   NHYD=["SOUTH-1"], DT=[5](min), AREA=[20.21](ha),
                    DWF=[0](cms), CN/C=[35.5 ], IA=[4.67](mm), N=[3], TP=[1.4 ](hrs),
                    Continuous simulation parameters:
                    IaRECper=[6](hrs),
                    SMIN=[-1](mm),  SMAX=[-1](mm), SK=[0.03]/(mm),
                    InterEventTime=[12](hrs),
                    Baseflow simulation parameters:
                    BaseFlowOption=[1] , InitGWResVol=[12](mm), GWResK=[0.95](mm/day/mm),
                    VHydCond=[.02](mm/hr), END=-1
*%-----------------|---------------------------------------------------------|
ADD HYD             NHYDsum=["J4"], NHYDs to add=["R3"+"SOUTH-1"]
*%-----------------|---------------------------------------------------------|
ROUTE CHANNEL       NHYDout=["R4"], NHYDin=["J4"],  RDT=[5](min),
                    CHLGTH=[ 482 ](m),  CHSLOPE=[0.41](%), FPSLOPE=[0.41](%),
                    SECNUM=[ 1 ],       NSEG=[ 3 ]
                    ( SEGROUGH, SEGDIST (m))=[0.05, 20.48, -0.035, 24.1, 0.05, 40.97]
                    NSEG times
                    ( DISTANCE (m), ELEVATION (m))=[0.00, 75.19]
                                                  [4.82, 75.02]
                                                  [10.84, 74.46]
                                                  [20.48, 73.88]
                                                  [21.69, 73.71]
                                                  [22.89, 73.79]
                                                  [24.1, 74.07]
                                                  [25.3, 74.18]
                                                  [30.12, 74.6]
                                                  [34.94, 74.69]
                                                  [40.97,75.14]
                                                  [-1,-1]
*%-----------------|---------------------------------------------------------|
CONTINUOUS NASHYD   NHYD=["SOUTH-2"], DT=[5](min), AREA=[11.612](ha),
                    DWF=[0](cms), CN/C=[36.7 ], IA=[4.67](mm), N=[3], TP=[0.96 ](hrs),
                    Continuous simulation parameters:
                    IaRECper=[6](hrs),
```

```
                        SMIN=[-1](mm),  SMAX=[-1](mm), SK=[0.03]/(mm),
                        InterEventTime=[12](hrs),
                        Baseflow simulation parameters:
                        BaseFlowOption=[1] , InitGWResVol=[12](mm), GWResK=[0.95](mm/day/mm),
                        VHydCond=[.02](mm/hr), END=-1
*%------------------|-------------------------------------------------------|
ADD HYD             NHYDsum=["J5"], NHYDs to add=["R4"+"SOUTH-2"]
*%------------------|-------------------------------------------------------|
ROUTE CHANNEL       NHYDout=["R5"], NHYDin=["J5"],  RDT=[5](min),
                        CHLGTH=[181](m),  CHSLOPE=[0.5](%), FPSLOPE=[0.5](%),
                        SECNUM=[ 1 ],       NSEG=[ 3 ]
                        ( SEGROUGH, SEGDIST (m))=[0.05, 42.50, -0.035, 47.69, 0.05, 65.31]
                        NSEG times
                        ( DISTANCE (m), ELEVATION (m))=[0.000, 75.10]
                                                       [10.37, 74.34]
                                                       [20.73, 73.72]
                                                       [30.06, 73.11]
                                                       [42.50, 72.86]
                                                       [45.61, 72.59]
                                                       [47.69, 72.82]
                                                       [60.13, 73.68]
                                                       [65.31, 74.98]
                                                       [-1,-1]
*%------------------|-------------------------------------------------------|
CONTINUOUS NASHYD   NHYD=["SOUTH-3"], DT=[5](min), AREA=[7.982](ha),
                        DWF=[0](cms), CN/C=[42.6 ], IA=[4.67](mm), N=[3], TP=[0.89 ](hrs),
                        Continuous simulation parameters:
                        IaRECper=[6](hrs),
                        SMIN=[-1](mm),  SMAX=[-1](mm), SK=[0.03]/(mm),
                        InterEventTime=[12](hrs),
                        Baseflow simulation parameters:
                        BaseFlowOption=[1] , InitGWResVol=[12](mm), GWResK=[0.95](mm/day/mm),
                        VHydCond=[.02](mm/hr), END=-1
*%------------------|-------------------------------------------------------|
ADD HYD             NHYDsum=["J6"], NHYDs to add=["R5"+"SOUTH-3"]
*%------------------|-------------------------------------------------------|
SAVE HYD            NHYD=["J6"],  # OF PCYCLES=[-1],  ICASEsh=[1]
                        HYD_COMMENT=["J6-Bearbrook Tributary Upstream of Thunder Road
                        Crossing"]
*%------------------|-------------------------------------------------------|
ROUTE CHANNEL       NHYDout=["R6"], NHYDin=["J6"],  RDT=[5](min),
                        CHLGTH=[ 323 ](m),  CHSLOPE=[0.44](%), FPSLOPE=[0.44](%),
                        SECNUM=[ 1 ],       NSEG=[ 3 ]
                        ( SEGROUGH, SEGDIST (m))=[0.05, 20.48, -0.035, 24.1, 0.05, 40.97]
                        NSEG times
                        ( DISTANCE (m), ELEVATION (m))=[0,75.19]
                                                       [4.82,75.02]
                                                       [10.84,74.46]
                                                       [20.48,73.88]
                                                       [21.69,73.71]
                                                       [22.89,73.79]
                                                       [24.1,74.07]
                                                       [25.3,74.18]
                                                       [30.12,74.6]
                                                       [34.94,74.69]
                                                       [40.97,75.14]
                                                       [-1,-1]
*%------------------|-------------------------------------------------------|
CONTINUOUS NASHYD   NHYD=["SOUTH-4"], DT=[5](min), AREA=[14.985](ha),
                        DWF=[0](cms), CN/C=[39.5 ], IA=[4.67](mm), N=[3], TP=[1.23 ](hrs),
                        Continuous simulation parameters:
                        IaRECper=[6](hrs),
                        SMIN=[-1](mm),  SMAX=[-1](mm), SK=[0.03]/(mm),
                        InterEventTime=[12](hrs),
                        Baseflow simulation parameters:
                        BaseFlowOption=[1] , InitGWResVol=[12](mm), GWResK=[0.95](mm/day/mm),
                        VHydCond=[.02](mm/hr), END=-1
*%------------------|-------------------------------------------------------|
ADD HYD             NHYDsum=["Total"], NHYDs to add=["R6"+"SOUTH-4"]
```

```
*%-----------------|---------------------------------------------------------|
*#=========================================================================
*                              DESIGN STORMS
*#=========================================================================
*#########################################################################
*# CONTINUOUS RAINFALL DATA
*#########################################################################
*#*************************************************************************
*# STORMS
*#*************************************************************************
START              TZERO=[1968.0401], METOUT=[2], NSTORM=[0], NRUN=[1968]
*%-----------------|---------------------------------------------------------|
START              TZERO=[1969.0401], METOUT=[2], NSTORM=[0], NRUN=[1969]
*%-----------------|---------------------------------------------------------|
START              TZERO=[1970.0401], METOUT=[2], NSTORM=[0], NRUN=[1970]
*%-----------------|---------------------------------------------------------|
START              TZERO=[1971.0401], METOUT=[2], NSTORM=[0], NRUN=[1971]
*%-----------------|---------------------------------------------------------|
START              TZERO=[1972.0401], METOUT=[2], NSTORM=[0], NRUN=[1972]
*%-----------------|---------------------------------------------------------|
START              TZERO=[1973.0401], METOUT=[2], NSTORM=[0], NRUN=[1973]
*%-----------------|---------------------------------------------------------|
START              TZERO=[1974.0401], METOUT=[2], NSTORM=[0], NRUN=[1974]
*%-----------------|---------------------------------------------------------|
START              TZERO=[1975.0401], METOUT=[2], NSTORM=[0], NRUN=[1975]
*%-----------------|---------------------------------------------------------|
START              TZERO=[1976.0401], METOUT=[2], NSTORM=[0], NRUN=[1976]
*%-----------------|---------------------------------------------------------|
START              TZERO=[1977.0401], METOUT=[2], NSTORM=[0], NRUN=[1977]
*%-----------------|---------------------------------------------------------|
START              TZERO=[1978.0401], METOUT=[2], NSTORM=[0], NRUN=[1978]
*%-----------------|---------------------------------------------------------|
START              TZERO=[1979.0401], METOUT=[2], NSTORM=[0], NRUN=[1979]
*%-----------------|---------------------------------------------------------|
START              TZERO=[1980.0401], METOUT=[2], NSTORM=[0], NRUN=[1980]
*%-----------------|---------------------------------------------------------|
START              TZERO=[1981.0401], METOUT=[2], NSTORM=[0], NRUN=[1981]
*%-----------------|---------------------------------------------------------|
START              TZERO=[1982.0401], METOUT=[2], NSTORM=[0], NRUN=[1982]
*%-----------------|---------------------------------------------------------|
START              TZERO=[1983.0401], METOUT=[2], NSTORM=[0], NRUN=[1983]
*%-----------------|---------------------------------------------------------|
START              TZERO=[1984.0401], METOUT=[2], NSTORM=[0], NRUN=[1984]
*%-----------------|---------------------------------------------------------|
START              TZERO=[1985.0401], METOUT=[2], NSTORM=[0], NRUN=[1985]
*%-----------------|---------------------------------------------------------|
START              TZERO=[1986.0401], METOUT=[2], NSTORM=[0], NRUN=[1986]
*%-----------------|---------------------------------------------------------|
START              TZERO=[1987.0401], METOUT=[2], NSTORM=[0], NRUN=[1987]
*%-----------------|---------------------------------------------------------|
START              TZERO=[1988.0401], METOUT=[2], NSTORM=[0], NRUN=[1988]
*%-----------------|---------------------------------------------------------|
START              TZERO=[1989.0401], METOUT=[2], NSTORM=[0], NRUN=[1989]
*%-----------------|---------------------------------------------------------|
START              TZERO=[1990.0401], METOUT=[2], NSTORM=[0], NRUN=[1990]
*%-----------------|---------------------------------------------------------|
START              TZERO=[1991.0401], METOUT=[2], NSTORM=[0], NRUN=[1991]
*%-----------------|---------------------------------------------------------|
START              TZERO=[1992.0401], METOUT=[2], NSTORM=[0], NRUN=[1992]
*%-----------------|---------------------------------------------------------|
START              TZERO=[1993.0401], METOUT=[2], NSTORM=[0], NRUN=[1993]
*%-----------------|---------------------------------------------------------|
START              TZERO=[1994.0401], METOUT=[2], NSTORM=[0], NRUN=[1994]
*%-----------------|---------------------------------------------------------|
START              TZERO=[1995.0401], METOUT=[2], NSTORM=[0], NRUN=[1995]
*%-----------------|---------------------------------------------------------|
START              TZERO=[1996.0401], METOUT=[2], NSTORM=[0], NRUN=[1996]
*%-----------------|---------------------------------------------------------|
START              TZERO=[1997.0401], METOUT=[2], NSTORM=[0], NRUN=[1997]
```

```
*%-----------------|-------------------------------------------------------|
START               TZERO=[1998.0401],  METOUT=[2],  NSTORM=[0],  NRUN=[1998]
*%-----------------|-------------------------------------------------------|
START               TZERO=[1999.0401],  METOUT=[2],  NSTORM=[0],  NRUN=[1999]
*%-----------------|-------------------------------------------------------|
START               TZERO=[2000.0401],  METOUT=[2],  NSTORM=[0],  NRUN=[2000]
*%-----------------|-------------------------------------------------------|
START               TZERO=[2002.0401],  METOUT=[2],  NSTORM=[0],  NRUN=[2002]
*%-----------------|-------------------------------------------------------|
START               TZERO=[2003.0401],  METOUT=[2],  NSTORM=[0],  NRUN=[2003]
*%-----------------|-------------------------------------------------------|
START               TZERO=[2004.0401],  METOUT=[2],  NSTORM=[0],  NRUN=[2004]
*%-----------------|-------------------------------------------------------|
START               TZERO=[2006.0401],  METOUT=[2],  NSTORM=[0],  NRUN=[2006]
*%-----------------|-------------------------------------------------------|
START               TZERO=[2007.0401],  METOUT=[2],  NSTORM=[0],  NRUN=[2007]
*%-----------------|-------------------------------------------------------|
FINISH
```

```
00001>  ================================================================================
00002>
00003>  SSSSS   W   W   M   M   H   H   Y   Y   M   M    OOO          222    000    11   5555   =========
00004>  S       W W W   MM MM   H   H    Y Y    MM MM   O   O          2  2   0  0  111   5       
00005>  SSSSS   W W W   M M M   HHHHH     Y     M M M   O   O          2     0  0   11   5       Ver 5.500
00006>      S   WW WW   M   M   H   H     Y     M   M   O   O        222    0  0   11   555     FEB  2015
00007>  SSSSS   W   W   M   M   H   H     Y     M   M    OOO         2      0  0   11     5     =========
00008>                                                                2      0  0   11     5     # 2549237
00009>         StormWater Management HYdrologic Model                 222    000   11   555    =========
00010>
00011>  ********************************************************************************
00012>  ******************** SWMHYMO Ver 5.500 ********************************************
00013>  ********************* A single event and continuous hydrologic simulation model ***********************
00014>  *********************      based on the principles of HYMO and its successors     **********************
00015>  *********************              OTTHYMO-83 and OTTHYMO-89.                     **********************
00016>  ********************************************************************************
00017>  ********************* Distributed by:  J.F. Sabourin and Associates Inc.  **********************
00018>  *********************                  Ottawa, Ontario: (613) 836-3884            **********************
00019>  *********************                  Gatineau, Quebec: (819) 243-6858           **********************
00020>  *********************                  E-Mail: swmhymo@jfsa.com                   **********************
00021>  ********************************************************************************
00022>
00023>  ################################################################################
00024>  ##################### Licensed user: JFSAinc.                  ####################
00025>  ####################                Ottawa                SERIAL#:2549237      ####################
00026>  ################################################################################
00027>
00028>  ********************************************************************************
00029>  ********************* ****** PROGRAM ARRAY DIMENSIONS ******  **********************
00030>  *********************  Maximum value for ID numbers  :   11   **********************
00031>  *********************  Max. number of rainfall points: 105408 **********************
00032>  *********************  Max. number of flow points   : 105408 **********************
00033>  ********************************************************************************
00034>
00035>
00036>  ******************************  S U M M A R Y   O U T P U T  ***********************
00037>  ********************************************************************************
00038>  *                    RUN DATE: 2024-07-31      TIME: 16:06:00      RUN COUNTER: 000804     *
00039>  ********************************************************************************
00040>  * Input   file: C:\Temp\202407-THUND_v04.0-Pre-Cont\THUND_v04.0-Pre-Cont.dat              *
00041>  * Output  file: C:\Temp\202407-THUND_v04.0-Pre-Cont\THUND_v04.0-Pre-Cont.out              *
00042>  * Summary file: C:\Temp\202407-THUND_v04.0-Pre-Cont\THUND_v04.0-Pre-Cont.sum              *
00043>  * User comments:                                                                         *
00044>  * 1:_____________________________________________________________________________________*
00045>  * 2:_____________________________________________________________________________________*
00046>  * 3:_____________________________________________________________________________________*
00047>  ********************************************************************************
00048>
00049>
00050> #*******************************************************************
00051> #  SWMHYMO  / INPUT DATA FILE
00052> #*******************************************************************
00053> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
00054> #  Date        : 04-28-2021
00055> #  Modeller    : [J.B]
00056> #  Company     : JFSAinc.
00057> #  License #   :  2549237
00058> #*******************************************************************
00059> #*******************************************************************
00060> #*******************************************************************
00061>  ** END OF RUN : 1966
00062>
00063>  ********************************************************************************
00064>
00065>
00066>
00067>
00068>
00069>  RUN#:COMMAND#
00070> R1967:C00001------------------------------------------------------------------------
00071>       START
00072>       [TZERO =    .00 hrs on 19670101]
00073>       [METOUT=   2    (1=imperial, 2=metric output)]
00074>       [NSTORM=   0 ]
00075>       [NRUN  = 1967 ]
00076> #*******************************************************************
00077> #  SWMHYMO  / INPUT DATA FILE
00078> #*******************************************************************
00079> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
00080> #  Date        : 04-28-2021
00081> #  Modeller    : [J.B]
00082> #  Company     : JFSAinc.
00083> #  License #   :  2549237
00084> #*******************************************************************
00085> #*******************************************************************
00086> #*******************************************************************
00087> # Ottawa International Airport - April 1st to October 31st
00088> R1967:C00002------------------------------------------------------------------------
00089>  *  READ AES DATA
00090>       [Filename  = YOW_1967_2007.123                                ]
00091>       [Start_date= 1967.0101: End_date= 1967.0802]
00092>       [DT= 60.min: Length=  360.hrs: WetHrs=    4: DryHrs=  356: PTOT=  27.00)
00093>       Maximum average rainfall intensities over
00094>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00095>        17.30    11.45     7.63     3.87     1.93      .97      .64      .48      .37    mm/hr
00096>        17.30    22.90    23.20    23.20    23.20    23.20    23.20    27.00    mm
00097>      19670725 19670725 19670725 19670725 19670725 19670725 19670725 19670726 19670726 date
00098>       Number of rainfall events per following interevent time
00099>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00100>           4        4        4        3        3        3        3        3        2
00101>       Number of events with at least the following durations
00102>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00103>            3        1        0        0        0        0        0        0        0
00104> R1967:C00003------------------------------------------------------------------------
00105>       COMPUTE API
00106>       [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
00107>       {APImax= 52.39: APIavg= 35.66: APImin= 20.48}
00108> R1967:C00004-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00109>      CONTINUOUS NASHYD       5.0 01:NORTH-1        34.70     .016 1967.0725_ 5:20   11.53 .427     .000
00110>       [CN= 38.1: N= 3.00: Tp= 4.12]
00111>       [IaREC= 6.00: SMIN=168.62: SMAX=*****: SK= .030]
00112>       [InterEventTime=  12.00]
00113> R1967:C00005-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00114>      CONTINUOUS NASHYD       5.0 01:NORTH-2        12.44     .021 1967.0725_ 2:40   11.95 .443     .000
00115>       [CN= 53.0: N= 3.00: Tp= 1.29]
00116>       [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
00117>       [InterEventTime=  12.00]
00118> R1967:C00006-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00119>      CONTINUOUS NASHYD       5.0 01:HWY-1          2.36      .012 1967.0725_ 2:35   13.85 .513     .000
00120>       [CN= 81.7: N= 3.00: Tp= 1.21]
00121>       [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
00122>       [InterEventTime=  12.00]
00123> R1967:C00007-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00124>      ADD HYD                 5.0 02:NORTH-1        34.70     .016 1967.0725_ 5:20   11.53  n/a     .000
00125>                          +   5.0 02:NORTH-2        12.44     .021 1967.0725_ 2:40   11.95  n/a     .000
00126>                          +   5.0 02:HWY-1          2.36      .012 1967.0725_ 2:35   13.85  n/a     .000
00127>                      SUM=    5.0 01:J1            49.51     .043 1967.0725_ 2:45   11.74  n/a     .000
00128> R1967:C00008-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00129>      ROUTE CHANNEL   ->      5.0 02:J1            49.51     .043 1967.0725_ 2:45   11.74  n/a     .000
00130>       [RD= 5.00] out<-       5.0 01:R1            49.51     .041 1967.0725_ 3:05   11.74  n/a     .000
00131>         [L/S/n=  478./ .440/.035]
00132>         {Vmax=  .307:Dmax=  .118}
00133> R1967:C00009-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00134>      CONTINUOUS NASHYD       5.0 01:INT-1          4.39      .008 1967.0725_ 3:00   12.26 .454     .000
00135>       [CN= 60.4: N= 3.00: Tp= 1.66]
00136>       [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
00137>       [InterEventTime=  12.00]
00138> R1967:C00010-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00139>      CONTINUOUS NASHYD       5.0 01:INT-2          3.61      .006 1967.0725_ 2:20   11.76 .436     .000
00140>       [CN= 47.4: N= 3.00: Tp=  .95]
00141>       [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
00142>       [InterEventTime=  12.00]
00143> R1967:C00011-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00144>      CONTINUOUS NASHYD       5.0 01:A3A            3.84      .007 1967.0725_ 2:50   12.16 .451     .000
00145>       [CN= 58.4: N= 3.00: Tp= 1.46]
00146>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
00147>       [InterEventTime=  12.00]
00148> R1967:C00012-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00149>      CONTINUOUS NASHYD       5.0 01:A3B            5.29      .006 1967.0725_ 2:40   11.62 .430     .000
00150>       [CN= 42.6: N= 3.00: Tp= 1.26]
00151>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
00152>       [InterEventTime=  12.00]
00153> R1967:C00013-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00154>      CONTINUOUS NASHYD       5.0 01:A3C            1.21      .001 1967.0725_ 2:20   11.50 .426     .000
00155>       [CN= 37.8: N= 3.00: Tp=  .87]
00156>       [IaREC= 6.00: SMIN=179.29: SMAX=*****: SK= .030]
00157>       [InterEventTime=  12.00]
00158> R1967:C00014-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00159>      ROUTE CHANNEL   ->      5.0 02:A3C            1.21      .001 1967.0725_ 2:20   11.50  n/a     .000
00160>       [RD= 5.00] out<-       5.0 01:A3C-R          1.21      .001 1967.0725_ 3:20   11.49  n/a     .000
00161>         [L/S/n=  500./ .140/.035]
00162>         {Vmax=  .062:Dmax=  .029}
00163> R1967:C00015-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00164>      CONTINUOUS NASHYD       5.0 01:INT-3          5.71      .015 1967.0725_ 2:20   12.16 .451     .000
00165>       [CN= 58.5: N= 3.00: Tp=  .89]
00166>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
00167>       [InterEventTime=  12.00]
00168> R1967:C00016-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00169>      ADD HYD                 5.0 02:R1            49.51     .041 1967.0725_ 3:05   11.74  n/a     .000
00170>                          +   5.0 02:INT-1          4.39      .008 1967.0725_ 3:00   12.26  n/a     .000
00171>                          +   5.0 02:INT-2          3.61      .006 1967.0725_ 2:20   11.76  n/a     .000
00172>                          +   5.0 02:INT-3          5.71      .015 1967.0725_ 2:20   12.16  n/a     .000
00173>                          +   5.0 02:A3A            3.84      .007 1967.0725_ 2:50   12.16  n/a     .000
00174>                          +   5.0 02:A3B            5.29      .006 1967.0725_ 2:40   11.62  n/a     .000
00175>                          +   5.0 02:A3C-R          1.21      .001 1967.0725_ 3:20   11.49  n/a     .000
00176>                      SUM=    5.0 01:J2            73.56     .080 1967.0725_ 2:45   11.82  n/a     .000
00177> R1967:C00017-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00178>      ROUTE CHANNEL   ->      5.0 02:J2            73.56     .080 1967.0725_ 2:45   11.82  n/a     .000
00179>       [RD= 5.00] out<-       5.0 01:R2            73.56     .078 1967.0725_ 3:00   11.82  n/a     .000
00180>         [L/S/n=  359./ .560/.035]
00181>         {Vmax=  .324:Dmax=  .088}
00182> R1967:C00018-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00183>      CONTINUOUS NASHYD       5.0 01:A1A           21.43     .017 1967.0725_ 3:00   11.47 .425     .000
00184>       [CN= 36.1: N= 3.00: Tp= 1.68]
00185>       [IaREC= 6.00: SMIN=191.09: SMAX=*****: SK= .030]
00186>       [InterEventTime=  12.00]
00187> R1967:C00019-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00188>      CONTINUOUS NASHYD       5.0 01:A1B            4.70     .005 1967.0725_ 3:05   11.66 .432     .000
00189>       [CN= 44.6: N= 3.00: Tp= 1.72]
00190>       [IaREC= 6.00: SMIN=134.47: SMAX=896.47: SK= .030]
00191>       [InterEventTime=  12.00]
00192> R1967:C00020-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00193>      CONTINUOUS NASHYD       5.0 01:A2             9.14     .029 1967.0725_ 2:30   12.68 .469     .000
00194>       [CN= 68.4: N= 3.00: Tp= 2.12]
00195>       [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
00196>       [InterEventTime=  12.00]
00197> R1967:C00021-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00198>      ADD HYD                 5.0 02:R2            73.56     .078 1967.0725_ 3:00   11.82  n/a     .000
00199>                          +   5.0 02:A1A           21.43     .017 1967.0725_ 3:00   11.47  n/a     .000
00200>                          +   5.0 02:A1B            4.70     .005 1967.0725_ 3:05   11.66  n/a     .000
00201>                          +   5.0 02:A2             9.14     .029 1967.0725_ 2:30   12.68  n/a     .000
00202>                      SUM=    5.0 01:J3           108.84     .125 1967.0725_ 2:50   11.81  n/a     .000
00203> R1967:C00022-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00204>      ROUTE CHANNEL   ->      5.0 02:J3           108.84     .125 1967.0725_ 2:50   11.81  n/a     .000
00205>       [RD= 5.00] out<-       5.0 01:R3           108.84     .122 1967.0725_ 3:05   11.81  n/a     .000
00206>         [L/S/n=  396./ .305/.035]
00207>         {Vmax=  .340:Dmax=  .190}
00208> R1967:C00023-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00209>      CONTINUOUS NASHYD       5.0 01:SOUTH-1       20.21     .017 1967.0725_ 2:45   11.44 .424     .000
00210>       [CN= 35.5: N= 3.00: Tp= 1.40]
00211>       [IaREC= 6.00: SMIN=204.20: SMAX=*****: SK= .030]
00212>       [InterEventTime=  12.00]
00213> R1967:C00024-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00214>      ADD HYD                 5.0 02:R3           108.84     .122 1967.0725_ 3:05   11.81  n/a     .000
00215>                          +   5.0 02:SOUTH-1       20.21     .017 1967.0725_ 2:45   11.44  n/a     .000
00216>                      SUM=    5.0 01:J4           129.05     .138 1967.0725_ 3:05   11.75  n/a     .000
00217> R1967:C00025-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00218>      ROUTE CHANNEL   ->      5.0 02:J4           129.05     .138 1967.0725_ 3:05   11.75  n/a     .000
00219>       [RD= 5.00] out<-       5.0 01:R4           129.05     .133 1967.0725_ 3:25   11.75  n/a     .000
00220>         [L/S/n=  482./ .410/.035]
00221>         {Vmax=  .405:Dmax=  .184}
00222> R1967:C00026-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00223>      CONTINUOUS NASHYD       5.0 01:SOUTH-2       11.61     .013 1967.0725_ 2:25   11.47 .425     .000
00224>       [CN= 36.7: N= 3.00: Tp=  .96]
00225>       [IaREC= 6.00: SMIN=191.09: SMAX=*****: SK= .030]
00226>       [InterEventTime=  12.00]
00227> R1967:C00027-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00228>      ADD HYD                 5.0 02:R4           129.05     .133 1967.0725_ 3:25   11.75  n/a     .000
00229>                          +   5.0 02:SOUTH-2       11.61     .013 1967.0725_ 2:25   11.47  n/a     .000
00230>                      SUM=    5.0 01:J5           140.66     .141 1967.0725_ 3:20   11.73  n/a     .000
00231> R1967:C00028-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00232>      ROUTE CHANNEL   ->      5.0 02:J5           140.66     .141 1967.0725_ 3:20   11.73  n/a     .000
00233>       [RD= 5.00] out<-       5.0 01:R5           140.66     .141 1967.0725_ 3:25   11.73  n/a     .000
00234>         [L/S/n=  181./ .500/.035]
00235>         {Vmax=  .262:Dmax=  .168}
00236> R1967:C00029-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00237>      CONTINUOUS NASHYD       5.0 01:SOUTH-3        7.98     .012 1967.0725_ 2:20   11.62 .430     .000
00238>       [CN= 42.6: N= 3.00: Tp=  .89]
00239>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
00240>       [InterEventTime=  12.00]
00241> R1967:C00030-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00242>      ADD HYD                 5.0 02:R5           140.66     .141 1967.0725_ 3:25   11.73  n/a     .000
00243>                          +   5.0 02:SOUTH-3        7.98     .012 1967.0725_ 2:20   11.62  n/a     .000
00244>                      SUM=    5.0 01:J6           148.64     .147 1967.0725_ 3:20   11.72  n/a     .000
00245> R1967:C00031-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00246>      SAVE HYD                5.0 01:J6           148.64     .147 1967.0725_ 3:20   11.72  n/a     .000
00247>       fname :J6.1967
00248>       remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
00249> R1967:C00032-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00250>      ROUTE CHANNEL   ->      5.0 02:J6           148.64     .147 1967.0725_ 3:20   11.72  n/a     .000
00251>       [RD= 5.00] out<-       5.0 01:R6           148.64     .145 1967.0725_ 3:35   11.72  n/a     .000
00252>         [L/S/n=  323./ .440/.035]
00253>         {Vmax=  .422:Dmax=  .185}
00254> R1967:C00033-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00255>      CONTINUOUS NASHYD       5.0 01:SOUTH-4       14.99     .016 1967.0725_ 2:35   11.53 .427     .000
00256>       [CN= 39.5: N= 3.00: Tp= 1.23]
00257>       [IaREC= 6.00: SMIN=168.62: SMAX=*****: SK= .030]
00258>       [InterEventTime=  12.00]
00259> R1967:C00034-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00260>      ADD HYD                 5.0 02:R6           148.64     .145 1967.0725_ 3:35   11.72  n/a     .000
00261>                          +   5.0 02:SOUTH-4       14.99     .016 1967.0725_ 2:35   11.53  n/a     .000
00262>                      SUM=    5.0 01:Total        163.63     .157 1967.0725_ 3:30   11.71  n/a     .000
00263> #*******************************************************************
00264> #*******************************************************************
00265> ###################################################################################
00266> # CONTINUOUS RAINFALL DATA
00267> ###################################################################################
00268> #*******************************************************************************
00269> # STORMS
00270> #*******************************************************************
00271>  ** END OF RUN : 1967
00272>
00273>  ********************************************************************************
00274>
00275>
00276>
00277>
00278>
00279>  RUN#:COMMAND#
00280> R1968:C00001------------------------------------------------------------------------
00281>       START
00282>       [TZERO =    .00 hrs on 19680401]
00283>       [METOUT=   2    (1=imperial, 2=metric output)]
00284>       [NSTORM=   0 ]
00285>       [NRUN  = 1968 ]
00286> #*******************************************************************
00287> #  SWMHYMO  / INPUT DATA FILE
00288> #*******************************************************************
00289> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
00290> #  Date        : 04-28-2021
00291> #  Modeller    : [J.B]
00292> #  Company     : JFSAinc.
00293> #  License #   :  2549237
00294> #*******************************************************************
00295> #*******************************************************************
00296> #*******************************************************************
00297> # Ottawa International Airport - April 1st to October 31st
00298> R1968:C00002------------------------------------------------------------------------
00299>       READ AES DATA
00300>       [Filename  = YOW_1967_2007.123                                ]
00301>       [Start_date= 1968.0401: End_date= 1968.1031]
00302>       [DT= 60.min: Length=  5136.hrs: WetHrs=  315: DryHrs= 4821: PTOT= 499.10)
00303>       Maximum average rainfall intensities over
00304>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00305>        33.30    17.05    11.27     6.23     3.74     1.87     1.26      .95      .70    mm/hr
00306>        33.30    34.10    34.10    37.40    44.90    44.90    45.40    45.40    50.20    mm
00307>      19680817 19680817 19680817 19680808 19680817 19680818 19680817 19680808 19680820  date
00308>       Number of rainfall events per following interevent time
00309>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00310>          106       82       74       67       58       51       36       32       27
00311>       Number of events with at least the following durations
00312>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00313>          106       57       36       14        4        0        0        0        0
00314> R1968:C00003------------------------------------------------------------------------
00315>       COMPUTE API
00316>       [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
00317>       {APImax= 67.52: APIavg= 23.84: APImin=  6.45}
00318> R1968:C00004-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00319>      CONTINUOUS NASHYD       5.0 01:NORTH-1        34.70     .046 1968.0912_ 0:55   199.28 .399     .000
00320>       [CN= 38.1: N= 3.00: Tp= 4.12]
00321>       [IaREC= 6.00: SMIN=168.62: SMAX=*****: SK= .030]
00322>       [InterEventTime=  12.00]
00323> R1968:C00005-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00324>      CONTINUOUS NASHYD       5.0 01:NORTH-2        12.44     .063 1968.0817_ 6:05   199.84 .400     .000
00325>       [CN= 53.0: N= 3.00: Tp= 1.29]
00326>       [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
00327>       [InterEventTime=  12.00]
00328> R1968:C00006-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00329>      CONTINUOUS NASHYD       5.0 01:HWY-1          2.36      .032 1968.0817_ 6:00   202.98 .407     .000
00330>       [CN= 81.7: N= 3.00: Tp= 1.21]
00331>       [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
00332>       [InterEventTime=  12.00]
00333> R1968:C00007-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00334>      ADD HYD                 5.0 02:NORTH-1        34.70     .046 1968.0912_ 0:55   199.28  n/a     .000
00335>                          +   5.0 02:NORTH-2        12.44     .063 1968.0817_ 6:05   199.84  n/a     .000
00336>                          +   5.0 02:HWY-1          2.36      .032 1968.0817_ 6:00   202.98  n/a     .000
00337>                      SUM=    5.0 01:J1            49.51     .118 1968.0817_ 6:10   199.60  n/a     .000
00338> R1968:C00008-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00339>      ROUTE CHANNEL   ->      5.0 02:J1            49.51     .118 1968.0817_ 6:10   199.60  n/a     .000
00340>  *    [RD= 5.00] out<-       5.0 01:R1            49.51     .114 1968.0817_ 6:25   199.60  n/a     .000
00341>         [L/S/n=  478./ .440/.035]
00342>         {Vmax=  .413:Dmax=  .178}
00343> R1968:C00009-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00344>      CONTINUOUS NASHYD       5.0 01:INT-1          4.39      .022 1968.0817_ 6:25   200.22 .401     .000
00345>       [CN= 60.4: N= 3.00: Tp= 1.66]
00346>       [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
00347>       [InterEventTime=  12.00]
00348> R1968:C00010-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00349>      CONTINUOUS NASHYD       5.0 01:INT-2          3.61      .020 1968.0817_ 5:45   199.59 .400     .000
00350>       [CN= 47.4: N= 3.00: Tp=  .95]
00351>       [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
00352>       [InterEventTime=  12.00]
00353> R1968:C00011-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00354>      CONTINUOUS NASHYD       5.0 01:A3A            3.84      .021 1968.0817_ 6:15   200.11 .401     .000
00355>       [CN= 58.4: N= 3.00: Tp= 1.46]
00356>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
00357>       [InterEventTime=  12.00]
00358> R1968:C00012-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00359>      CONTINUOUS NASHYD       5.0 01:A3B            5.29      .019 1968.0817_ 6:05   199.41 .400     .000
00360>       [CN= 42.6: N= 3.00: Tp= 1.26]
```

```
00361>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
00362>       [InterEventTime=  12.00]
00363> R1968:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00364>     CONTINUOUS NASHYD      5.0 01:A3C              1.21      .005 1968.0817_ 5:40  199.24 .399     .000
00365>       [CN= 37.8: N= 3.00: Tp=  .87]
00366>       [IaREC= 6.00: SMIN=179.29: SMAX=*****: SK= .030]
00367>       [InterEventTime=  12.00]
00368> R1968:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00369>     ROUTE CHANNEL   ->     5.0 02:A3C              1.21      .005 1968.0817_ 5:40  199.24  n/a     .000
00370> *   [RDT= 5.00] out<-     5.0 01:A3C-R            1.21      .002 1968.0817_ 6:20  199.24  n/a     .000
00371>       [L/S/n=  500./ .140./.035]
00372>       [Vmax=  .098:Dmax=  .050)
00373> R1968:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00374>     CONTINUOUS NASHYD      5.0 01:INT-3            5.71      .048 1968.0817_ 5:40  200.11 .401     .000
00375>       [CN= 58.5: N= 3.00: Tp=  .89]
00376>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
00377>       [InterEventTime=  12.00]
00378> R1968:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00379>     ADD HYD               5.0 02:R1              49.51      .114 1968.0817_ 6:25  199.60  n/a     .000
00380>                     +     5.0 02:INT-1            4.39      .022 1968.0817_ 6:25  200.22  n/a     .000
00381>                     +     5.0 02:INT-2            3.61      .020 1968.0817_ 5:45  199.59  n/a     .000
00382>                     +     5.0 02:INT-3            5.71      .048 1968.0817_ 5:40  200.11  n/a     .000
00383>                     +     5.0 02:A3A              3.84      .021 1968.0817_ 6:15  200.11  n/a     .000
00384>                     +     5.0 02:A3B              5.29      .019 1968.0817_ 6:05  199.41  n/a     .000
00385>                     +     5.0 02:A3C-R            1.21      .002 1968.0817_ 6:20  199.24  n/a     .000
00386>                   SUM=   73.56      .230 1968.0817_ 6:10  199.68  n/a     .000
00387> R1968:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00388>     ROUTE CHANNEL   ->     5.0 02:J2              73.56      .230 1968.0817_ 6:10  199.68  n/a     .000
00389> *   [RDT= 5.00] out<-     5.0 01:R2              73.56      .227 1968.0817_ 6:15  199.68  n/a     .000
00390>       [L/S/n=  359./ .560/.035]
00391>       [Vmax=  .481:Dmax=  .147)
00392> R1968:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00393>     CONTINUOUS NASHYD      5.0 01:A1A             21.43      .047 1968.0817_ 6:30  199.20 .399     .000
00394>       [CN= 36.1: N= 3.00: Tp= 1.68]
00395>       [IaREC= 6.00: SMIN=191.09: SMAX=*****: SK= .030]
00396>       [InterEventTime=  12.00]
00397> R1968:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00398>     CONTINUOUS NASHYD      5.0 01:A1B              4.70      .013 1968.0817_ 6:30  199.45 .400     .000
00399>       [CN= 44.6: N= 3.00: Tp= 1.72]
00400>       [IaREC= 6.00: SMIN=134.47: SMAX=896.47: SK= .030]
00401>       [InterEventTime=  12.00]
00402> R1968:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00403>     CONTINUOUS NASHYD      5.0 01:A2               9.14      .085 1968.0817_ 5:55  200.74 .402     .000
00404>       [CN= 68.4: N= 3.00: Tp= 1.12]
00405>       [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
00406>       [InterEventTime=  12.00]
00407> R1968:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00408>     ADD HYD               5.0 02:R2              73.56      .227 1968.0817_ 6:15  199.68  n/a     .000
00409>                     +     5.0 02:A1A             21.43      .047 1968.0817_ 6:30  199.20  n/a     .000
00410>                     +     5.0 02:A1B              4.70      .013 1968.0817_ 6:30  199.45  n/a     .000
00411>                     +     5.0 02:A2               9.14      .085 1968.0817_ 5:55  200.74  n/a     .000
00412>                   SUM=   108.84      .366 1968.0817_ 6:15  199.66  n/a     .000
00413> R1968:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00414>     ROUTE CHANNEL   ->     5.0 02:J3             108.84      .366 1968.0817_ 6:15  199.66  n/a     .000
00415> *   [RDT= 5.00] out<-     5.0 01:R3             108.84      .352 1968.0817_ 6:30  199.66  n/a     .000
00416>       [L/S/n=  396./ .305/.035]
00417>       [Vmax=  .404:Dmax=  .295)
00418> R1968:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00419>     CONTINUOUS NASHYD      5.0 01:SOUTH-1         20.21      .049 1968.0817_ 6:10  199.16 .399     .000
00420>       [CN= 35.5: N= 3.00: Tp= 1.40]
00421>       [IaREC= 6.00: SMIN=204.20: SMAX=*****: SK= .030]
00422>       [InterEventTime=  12.00]
00423> R1968:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00424>     ADD HYD               5.0 02:R3             108.84      .352 1968.0817_ 6:30  199.66  n/a     .000
00425>                     +     5.0 02:SOUTH-1         20.21      .049 1968.0817_ 6:10  199.16  n/a     .000
00426>                   SUM=   129.05      .399 1968.0817_ 6:30  199.58  n/a     .000
00427> R1968:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00428>     ROUTE CHANNEL   ->     5.0 02:J4             129.05      .399 1968.0817_ 6:30  199.58  n/a     .000
00429> *   [RDT= 5.00] out<-     5.0 01:R4             129.05      .389 1968.0817_ 6:45  199.58  n/a     .000
00430>       [L/S/n=  482./ .410/.035]
00431>       [Vmax=  .532:Dmax=  .282)
00432> R1968:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00433>     CONTINUOUS NASHYD      5.0 01:SOUTH-2         11.61      .041 1968.0817_ 5:45  199.20 .399     .000
00434>       [CN= 36.7: N= 3.00: Tp=  .96]
00435>       [IaREC= 6.00: SMIN=191.09: SMAX=*****: SK= .030]
00436>       [InterEventTime=  12.00]
00437> R1968:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00438>     ADD HYD               5.0 02:R4             129.05      .389 1968.0817_ 6:45  199.58  n/a     .000
00439>                     +     5.0 02:SOUTH-2         11.61      .041 1968.0817_ 5:45  199.20  n/a     .000
00440>                   SUM=   140.66      .414 1968.0817_ 6:40  199.55  n/a     .000
00441> R1968:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00442>     ROUTE CHANNEL   ->     5.0 02:J5             140.66      .414 1968.0817_ 6:40  199.55  n/a     .000
00443> *   [RDT= 5.00] out<-     5.0 01:R5             140.66      .413 1968.0817_ 6:45  199.55  n/a     .000
00444>       [L/S/n=  181./ .500/.035]
00445>       [Vmax=  .505:Dmax=  .258)
00446> R1968:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00447>     CONTINUOUS NASHYD      5.0 01:SOUTH-3          7.98      .039 1968.0817_ 5:40  199.41 .400     .000
00448>       [CN= 42.6: N= 3.00: Tp=  .89]
00449>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
00450>       [InterEventTime=  12.00]
00451> R1968:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00452>     ADD HYD               5.0 02:R5             140.66      .413 1968.0817_ 6:45  199.55  n/a     .000
00453>                     +     5.0 02:SOUTH-3          7.98      .039 1968.0817_ 5:40  199.41  n/a     .000
00454>                   SUM=   148.64      .433 1968.0817_ 6:40  199.54  n/a     .000
00455> R1968:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00456>     SAVE HYD              5.0 01:J6              148.64      .433 1968.0817_ 6:40  199.54  n/a     .000
00457>       fname :J6.1968
00458>       remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
00459> R1968:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00460>     ROUTE CHANNEL   ->     5.0 02:J6             148.64      .433 1968.0817_ 6:40  199.54  n/a     .000
00461> *   [RDT= 5.00] out<-     5.0 01:R6             148.64      .429 1968.0817_ 6:50  199.54  n/a     .000
00462>       [L/S/n=  323./ .440/.035]
00463>       [Vmax=  .555:Dmax=  .287)
00464> R1968:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00465>     CONTINUOUS NASHYD      5.0 01:SOUTH-4         14.99      .048 1968.0817_ 6:00  199.28 .399     .000
00466>       [CN= 39.5: N= 3.00: Tp= 1.23]
00467>       [IaREC= 6.00: SMIN=168.62: SMAX=*****: SK= .030]
00468>       [InterEventTime=  12.00]
00469> R1968:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00470>     ADD HYD               5.0 02:R6             148.64      .429 1968.0817_ 6:50  199.54  n/a     .000
00471>                     +     5.0 02:SOUTH-4         14.99      .048 1968.0817_ 6:00  199.28  n/a     .000
00472>                   SUM=   163.63      .466 1968.0817_ 6:45  199.52  n/a     .000
00473> #=========================================================================
00474> #=========================================================================
00475> ##########################################################################
00476> # CONTINUOUS RAINFALL DATA
00477> ##########################################################################
00478> #*************************************************************************
00479> # STORMS
00480> #*************************************************************************
00481>   ** END OF RUN : 1968
00482>
00483> ***************************************************************************************************
00484>
00485>
00486>
00487>
00488>
00489>  RUN#:COMMAND#
00490> R1969:C00001------------------------------------------------------------------------------------
00491>     START
00492>       [TZERO =    .00 hrs on 19690401]
00493>       [METOUT=  2   (1=imperial, 2=metric output)]
00494>       [NSTORM=  0 ]
00495>       [NRUN  = 1969 ]
00496> #*************************************************************************
00497> #  SWMHYMO  / INPUT DATA FILE
00498> #*************************************************************************
00499> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
00500> #  Date       : 04-28-2021
00501> #  Modeller   : [J.B]
00502> #  Company    : JFSAinc.
00503> #  License #  : 2549237
00504> #*************************************************************************
00505> #*************************************************************************
00506> #*************************************************************************
00507> # Ottawa International Airport - April 1st to October 31st
00508> R1969:C00002------------------------------------------------------------------------------------
00509>   *  READ AES DATA
00510>       [Filename  = YOW_1967_2007.123                                    ]
00511>       [Start_date= 1969.0401: End_date= 1969.1031]
00512>       [DT= 60.min: Length= 5136.hrs: WetHrs=  329: DryHrs= 4807: PTOT= 417.80)
00513>       Maximum average rainfall intensities over
00514>          1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00515>        21.10    16.25    10.83     7.78     3.93     2.10     1.40     1.09      .75    mm/hr
00516>        21.10    32.50    32.50    46.70    47.20    50.30    50.30    52.10    54.00    mm
00517>       19690818 19690818 19690818 19690819 19690819 19690819 19690819 19690819 19690819  date
00518>       Number of rainfall events per following interevent time
00519>          1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00520>           123       90       85       73       58       46       39       35       27
00521>       Number of events with at least the following durations
00522>          1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00523>           122       67       43       12        1        0        0        0        0
00524> R1969:C00003------------------------------------------------------------------------------------
00525>       COMPUTE API
00526>       [APIinit= 50.00: APIkdy= .9000: APIkdt= .9956]
00527>       {APImax= 56.77: APIavg= 20.26: APImin=  3.02}
00528> R1969:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00529>     CONTINUOUS NASHYD      5.0 01:NORTH-1         34.70      .052 1969.0819_ 5:10  125.15 .300     .000
00530>       [CN= 38.1: N= 3.00: Tp= 4.12]
00531>       [IaREC= 6.00: SMIN=168.62: SMAX=*****: SK= .030]
00532>       [InterEventTime=  12.00]
00533> R1969:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00534>     CONTINUOUS NASHYD      5.0 01:NORTH-2         12.44      .062 1969.0819_ 3:00  125.89 .301     .000
00535>       [CN= 53.0: N= 3.00: Tp= 1.29]
00536>       [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
00537>       [InterEventTime=  12.00]
00538> R1969:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00539>     CONTINUOUS NASHYD      5.0 01:HWY-1            2.36      .027 1969.0819_ 2:55  130.88 .313     .000
00540>       [CN= 81.7: N= 3.00: Tp= 1.21]
00541>       [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
00542>       [InterEventTime=  12.00]
00543> R1969:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00544>     ADD HYD               5.0 02:NORTH-1         34.70      .052 1969.0819_ 5:10  125.15  n/a     .000
00545>                     +     5.0 02:NORTH-2         12.44      .062 1969.0819_ 3:00  125.89  n/a     .000
00546>                     +     5.0 02:HWY-1            2.36      .027 1969.0819_ 2:55  130.88  n/a     .000
00547>                   SUM=    5.0 01:J1              49.51      .128 1969.0819_ 3:05  125.61  n/a     .000
00548> R1969:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00549>     ROUTE CHANNEL   ->     5.0 02:J1              49.51      .128 1969.0819_ 3:05  125.61  n/a     .000
00550> *   [RDT= 5.00] out<-     5.0 01:R1              49.51      .125 1969.0819_ 3:25  125.61  n/a     .000
00551>       [L/S/n=  478./ .440/.035]
00552>       [Vmax=  .422:Dmax=  .184)
00553> R1969:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00554>     CONTINUOUS NASHYD      5.0 01:INT-1            4.39      .022 1969.0819_ 3:20  126.49 .303     .000
00555>       [CN= 60.4: N= 3.00: Tp= 1.66]
00556>       [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
00557>       [InterEventTime=  12.00]
00558> R1969:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00559>     CONTINUOUS NASHYD      5.0 01:INT-2            3.61      .019 1969.0819_ 2:45  125.54 .300     .000
00560>       [CN= 47.4: N= 3.00: Tp= .95]
00561>       [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
00562>       [InterEventTime=  12.00]
00563> R1969:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00564>     CONTINUOUS NASHYD      5.0 01:A3A              3.84      .020 1969.0819_ 3:10  126.28 .302     .000
00565>       [CN= 58.4: N= 3.00: Tp= 1.46]
00566>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
00567>       [InterEventTime=  12.00]
00568> R1969:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00569>     CONTINUOUS NASHYD      5.0 01:A3B              5.29      .019 1969.0819_ 3:00  125.30 .300     .000
00570>       [CN= 42.6: N= 3.00: Tp= 1.26]
00571>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
00572>       [InterEventTime=  12.00]
00573> R1969:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00574>     CONTINUOUS NASHYD      5.0 01:A3C              1.21      .005 1969.0819_ 2:40  125.10 .299     .000
00575>       [CN= 37.8: N= 3.00: Tp=  .87]
00576>       [IaREC= 6.00: SMIN=179.29: SMAX=*****: SK= .030]
00577>       [InterEventTime=  12.00]
00578> R1969:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00579>     ROUTE CHANNEL   ->     5.0 02:A3C              1.21      .005 1969.0819_ 2:40  125.10  n/a     .000
00580> *   [RDT= 5.00] out<-     5.0 01:A3C-R            1.21      .003 1969.0819_ 3:10  125.10  n/a     .000
00581>       [L/S/n=  500./ .140./.035]
00582>       [Vmax=  .098:Dmax=  .061)
00583> R1969:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00584>     CONTINUOUS NASHYD      5.0 01:INT-3            5.71      .045 1969.0819_ 2:40  126.28 .302     .000
00585>       [CN= 58.5: N= 3.00: Tp=  .89]
00586>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
00587>       [InterEventTime=  12.00]
00588> R1969:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00589>     ADD HYD               5.0 02:R1              49.51      .125 1969.0819_ 3:25  125.61  n/a     .000
00590>                     +     5.0 02:INT-1            4.39      .022 1969.0819_ 3:20  126.49  n/a     .000
00591>                     +     5.0 02:INT-2            3.61      .019 1969.0819_ 2:45  125.54  n/a     .000
00592>                     +     5.0 02:INT-3            5.71      .045 1969.0819_ 2:40  126.28  n/a     .000
00593>                     +     5.0 02:A3A              3.84      .020 1969.0819_ 3:10  126.28  n/a     .000
00594>                     +     5.0 02:A3B              5.29      .019 1969.0819_ 3:00  125.30  n/a     .000
00595>                     +     5.0 02:A3C-R            1.21      .003 1969.0819_ 3:10  125.10  n/a     .000
00596>                   SUM=    5.0 01:J2              73.56      .241 1969.0819_ 3:05  125.71  n/a     .000
00597> R1969:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00598>     ROUTE CHANNEL   ->     5.0 02:J2              73.56      .241 1969.0819_ 3:05  125.71  n/a     .000
00599> *   [RDT= 5.00] out<-     5.0 01:R2              73.56      .239 1969.0819_ 3:10  125.72  n/a     .000
00600>       [L/S/n=  359./ .560/.035]
00601>       [Vmax=  .492:Dmax=  .151)
00602> R1969:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00603>     CONTINUOUS NASHYD      5.0 01:A1A             21.43      .050 1969.0819_ 3:20  125.05 .299     .000
00604>       [CN= 36.1: N= 3.00: Tp= 1.68]
00605>       [IaREC= 6.00: SMIN=191.09: SMAX=*****: SK= .030]
00606>       [InterEventTime=  12.00]
00607> R1969:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00608>     CONTINUOUS NASHYD      5.0 01:A1B              4.70      .014 1969.0819_ 3:25  125.36 .300     .000
00609>       [CN= 44.6: N= 3.00: Tp= 1.72]
00610>       [IaREC= 6.00: SMIN=134.47: SMAX=896.47: SK= .030]
00611>       [InterEventTime=  12.00]
00612> R1969:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00613>     CONTINUOUS NASHYD      5.0 01:A2               9.14      .078 1969.0819_ 2:50  127.62 .305     .000
00614>       [CN= 68.4: N= 3.00: Tp= 1.12]
00615>       [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
00616>       [InterEventTime=  12.00]
00617> R1969:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00618>     ADD HYD               5.0 02:R2              73.56      .239 1969.0819_ 3:10  125.72  n/a     .000
00619>                     +     5.0 02:A1A             21.43      .050 1969.0819_ 3:20  125.05  n/a     .000
00620>                     +     5.0 02:A1B              4.70      .014 1969.0819_ 3:25  125.36  n/a     .000
00621>                     +     5.0 02:A2               9.14      .078 1969.0819_ 2:50  127.62  n/a     .000
00622>                   SUM=    5.0 01:J3             108.84      .375 1969.0819_ 3:10  125.73  n/a     .000
00623> R1969:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00624>     ROUTE CHANNEL   ->     5.0 02:J3             108.84      .375 1969.0819_ 3:10  125.73  n/a     .000
00625> *   [RDT= 5.00] out<-     5.0 01:R3             108.84      .363 1969.0819_ 3:25  125.73  n/a     .000
00626>       [L/S/n=  396./ .305/.035]
00627>       [Vmax=  .405:Dmax=  .298)
00628> R1969:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00629>     CONTINUOUS NASHYD      5.0 01:SOUTH-1         20.21      .050 1969.0819_ 3:10  125.00 .299     .000
00630>       [CN= 35.5: N= 3.00: Tp= 1.40]
00631>       [IaREC= 6.00: SMIN=204.20: SMAX=*****: SK= .030]
00632>       [InterEventTime=  12.00]
00633> R1969:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00634>     ADD HYD               5.0 02:R3             108.84      .363 1969.0819_ 3:25  125.73  n/a     .000
00635>                     +     5.0 02:SOUTH-1         20.21      .050 1969.0819_ 3:10  125.00  n/a     .000
00636>                   SUM=    5.0 01:J4             129.05      .412 1969.0819_ 3:25  125.61  n/a     .000
00637> R1969:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00638>     ROUTE CHANNEL   ->     5.0 02:J4             129.05      .412 1969.0819_ 3:25  125.61  n/a     .000
00639> *   [RDT= 5.00] out<-     5.0 01:R4             129.05      .403 1969.0819_ 3:35  125.61  n/a     .000
00640>       [L/S/n=  482./ .410/.035]
00641>       [Vmax=  .535:Dmax=  .285)
00642> R1969:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00643>     CONTINUOUS NASHYD      5.0 01:SOUTH-2         11.61      .041 1969.0819_ 2:45  125.05 .299     .000
00644>       [CN= 36.7: N= 3.00: Tp=  .96]
00645>       [IaREC= 6.00: SMIN=191.09: SMAX=*****: SK= .030]
00646>       [InterEventTime=  12.00]
00647> R1969:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00648>     ADD HYD               5.0 02:R4             129.05      .403 1969.0819_ 3:35  125.61  n/a     .000
00649>                     +     5.0 02:SOUTH-2         11.61      .041 1969.0819_ 2:45  125.05  n/a     .000
00650>                   SUM=    5.0 01:J5             140.66      .430 1969.0819_ 3:30  125.57  n/a     .000
00651> R1969:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00652>     ROUTE CHANNEL   ->     5.0 02:J5             140.66      .430 1969.0819_ 3:30  125.57  n/a     .000
00653> *   [RDT= 5.00] out<-     5.0 01:R5             140.66      .428 1969.0819_ 3:35  125.57  n/a     .000
00654>       [L/S/n=  181./ .500/.035]
00655>       [Vmax=  .508:Dmax=  .261)
00656> R1969:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00657>     CONTINUOUS NASHYD      5.0 01:SOUTH-3          7.98      .038 1969.0819_ 2:40  125.30 .300     .000
00658>       [CN= 42.6: N= 3.00: Tp=  .89]
00659>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
00660>       [InterEventTime=  12.00]
00661> R1969:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00662>     ADD HYD               5.0 02:R5             140.66      .428 1969.0819_ 3:35  125.57  n/a     .000
00663>                     +     5.0 02:SOUTH-3          7.98      .038 1969.0819_ 2:40  125.30  n/a     .000
00664>                   SUM=    5.0 01:J6             148.64      .450 1969.0819_ 3:35  125.55  n/a     .000
00665> R1969:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00666>     SAVE HYD              5.0 01:J6              148.64      .450 1969.0819_ 3:35  125.55  n/a     .000
00667>       fname :J6.1969
00668>       remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
00669> R1969:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00670>     ROUTE CHANNEL   ->     5.0 02:J6             148.64      .450 1969.0819_ 3:35  125.55  n/a     .000
00671> *   [RDT= 5.00] out<-     5.0 01:R6             148.64      .446 1969.0819_ 3:40  125.55  n/a     .000
00672>       [L/S/n=  323./ .440/.035]
00673>       [Vmax=  .560:Dmax=  .292)
00674> R1969:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00675>     CONTINUOUS NASHYD      5.0 01:SOUTH-4         14.99      .048 1969.0819_ 3:00  125.15 .300     .000
00676>       [CN= 39.5: N= 3.00: Tp= 1.23]
00677>       [IaREC= 6.00: SMIN=168.62: SMAX=*****: SK= .030]
00678>       [InterEventTime=  12.00]
00679> R1969:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00680>     ADD HYD               5.0 02:R6             148.64      .446 1969.0819_ 3:40  125.55  n/a     .000
00681>                     +     5.0 02:SOUTH-4         14.99      .048 1969.0819_ 3:00  125.15  n/a     .000
00682>                   SUM=    5.0 01:Total          163.63      .486 1969.0819_ 3:40  125.52  n/a     .000
00683> #=========================================================================
00684> #=========================================================================
00685> ##########################################################################
00686> # CONTINUOUS RAINFALL DATA
00687> ##########################################################################
00688> #*************************************************************************
00689> # STORMS
00690> #*************************************************************************
00691>   ** END OF RUN : 1969
00692>
00693> ***************************************************************************************************
00694>
00695>
00696>
00697>
00698>
00699>  RUN#:COMMAND#
00700> R1970:C00001------------------------------------------------------------------------------------
00701>     START
00702>       [TZERO =    .00 hrs on 19700401]
00703>       [METOUT=  2   (1=imperial, 2=metric output)]
00704>       [NSTORM=  0 ]
00705>       [NRUN  = 1970 ]
00706> #*************************************************************************
00707> #  SWMHYMO  / INPUT DATA FILE
00708> #*************************************************************************
00709> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
00710> #  Date       : 04-28-2021
00711> #  Modeller   : [J.B]
00712> #  Company    : JFSAinc.
00713> #  License #  : 2549237
00714> #*************************************************************************
00715> #*************************************************************************
00716> #*************************************************************************
00717> # Ottawa International Airport - April 1st to October 31st
00718> R1970:C00002------------------------------------------------------------------------------------
00719>   *  READ AES DATA
00720>       [Filename  = YOW_1967_2007.123                                    ]
```

```
00721>       [Start_date= 1970.0401: End_date= 1970.1031]
00722>       (DT= 60.min: Length= 5136.hrs: WetHrs=  281: DryHrs= 4855: PTOT= 477.80)
00723>       Maximum average rainfall intensities over
00724>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00725>        35.30    18.30    12.20     6.10     3.63     1.81     1.21     1.46      .99    mm/hr
00726>        35.30    36.60    36.60    36.60    43.50    43.50    43.50    69.90    71.20    mm
00727>      19700926 19700926 19700926 19700927 19700817 19700817 19700818 19700926 19700927  date
00728>       Number of rainfall events per following interevent time
00729>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00730>          118       99       86       69       59       49       44       33       22
00731>       Number of events with at least the following durations
00732>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00733>          117       66       30        9        2        0        0        0        0
00734> R1970:C00003-------------------------------------------------------------------------------
00735>       COMPUTE API
00736>       [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
00737>       [APImax= 76.00: APIavg= 22.75: APImin=  2.66]
00738> R1970:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00739>      CONTINUOUS NASHYD     5.0 01:NORTH-1       34.70     .054 1970.0927_ 1:00  150.39 .315     .000
00740>        [CN= 38.1: N= 3.00: Tp= 4.12]
00741>        [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
00742>        [InterEventTime=  12.00]
00743> R1970:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00744>      CONTINUOUS NASHYD     5.0 01:NORTH-2       12.44     .083 1970.0926_22:10  151.68 .317     .000
00745>        [CN= 53.0: N= 3.00: Tp= 1.29]
00746>        [IaREC= 6.00: SMIN=  91.01: SMAX=606.70: SK= .030]
00747>        [InterEventTime=  12.00]
00748> R1970:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00749>      CONTINUOUS NASHYD     5.0 01:HWY-1         2.36     .040 1970.0926_22:00  157.23 .329     .000
00750>        [CN= 81.7: N= 3.00: Tp= 1.21]
00751>        [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
00752>        [InterEventTime=  12.00]
00753> R1970:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00754>      ADD HYD               5.0 02:NORTH-1       34.70     .054 1970.0927_ 1:00  150.39  n/a     .000
00755>                         +  5.0 02:NORTH-2       12.44     .083 1970.0926_22:10  151.68  n/a     .000
00756>                         +  5.0 02:HWY-1          2.36     .040 1970.0926_22:00  157.23  n/a     .000
00757>                    SUM=    5.0 01:J1            49.51     .152 1970.0926_22:15  151.04  n/a     .000
00758> R1970:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00759>      ROUTE CHANNEL    ->    5.0 02:J1            49.51     .152 1970.0926_22:15  151.04  n/a     .000
00760> *    [RDT= 5.00] out<-     5.0 01:R1            49.51     .148 1970.0926_22:30  151.04  n/a     .000
00761>        [L/S/n=  478./ .440/.035]
00762>        (Vmax=  .441:Dmax=  .197)
00763> R1970:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00764>      CONTINUOUS NASHYD     5.0 01:INT-1         4.39     .030 1970.0926_22:30  152.59 .319     .000
00765>        [CN= 60.4: N= 3.00: Tp= 1.66]
00766>        [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
00767>        [InterEventTime=  12.00]
00768> R1970:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00769>      CONTINUOUS NASHYD     5.0 01:INT-2         3.61     .026 1970.0926_21:45  151.11 .316     .000
00770>        [CN= 47.4: N= 3.00: Tp=  .95]
00771>        [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
00772>        [InterEventTime=  12.00]
00773> R1970:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00774>      CONTINUOUS NASHYD     5.0 01:A3A           3.84     .027 1970.0926_22:20  152.32 .319     .000
00775>        [CN= 58.4: N= 3.00: Tp= 1.46]
00776>        [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
00777>        [InterEventTime=  12.00]
00778> R1970:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00779>      CONTINUOUS NASHYD     5.0 01:A3B           5.29     .025 1970.0926_22:10  150.69 .315     .000
00780>        [CN= 42.6: N= 3.00: Tp= 1.26]
00781>        [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
00782>        [InterEventTime=  12.00]
00783> R1970:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00784>      CONTINUOUS NASHYD     5.0 01:A3C           1.21     .006 1970.0926_21:45  150.29 .315     .000
00785>        [CN= 37.8: N= 3.00: Tp=  .87]
00786>        [IaREC= 6.00: SMIN=179.29: SMAX=******: SK= .030]
00787>        [InterEventTime=  12.00]
00788> R1970:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00789>      ROUTE CHANNEL    ->    5.0 02:A3C           1.21     .006 1970.0926_21:45  150.29  n/a     .000
00790> *    [RDT= 5.00] out<-     5.0 01:A3C-R         1.21     .004 1970.0926_22:30  150.29  n/a     .000
00791>        [L/S/n=  500./ .140/.035]
00792>        (Vmax=  .105:Dmax=  .055)
00793> R1970:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00794>      CONTINUOUS NASHYD     5.0 01:INT-3         5.71     .062 1970.0926_21:45  152.32 .319     .000
00795>        [CN= 58.5: N= 3.00: Tp=  .89]
00796>        [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
00797>        [InterEventTime=  12.00]
00798> R1970:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00799>      ADD HYD               5.0 02:R1            49.51     .148 1970.0926_22:30  151.04  n/a     .000
00800>                         +  5.0 02:INT-1         4.39     .030 1970.0926_22:30  152.59  n/a     .000
00801>                         +  5.0 02:INT-2         3.61     .026 1970.0926_21:45  151.11  n/a     .000
00802>                         +  5.0 02:INT-3         5.71     .062 1970.0926_21:45  152.32  n/a     .000
00803>                         +  5.0 02:A3A           3.84     .027 1970.0926_22:20  152.32  n/a     .000
00804>                         +  5.0 02:A3B           5.29     .025 1970.0926_22:10  150.69  n/a     .000
00805>                         +  5.0 02:A3C-R         1.21     .004 1970.0926_22:30  150.29  n/a     .000
00806>                    SUM=    5.0 01:J2            73.56     .302 1970.0926_22:15  151.27  n/a     .000
00807> R1970:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00808>      ROUTE CHANNEL    ->    5.0 02:J2            73.56     .302 1970.0926_22:15  151.27  n/a     .000
00809> *    [RDT= 5.00] out<-     5.0 01:R2            73.56     .299 1970.0926_22:20  151.27  n/a     .000
00810>        [L/S/n=  359./ .560/.035]
00811>        (Vmax=  .527:Dmax=  .167)
00812> R1970:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00813>      CONTINUOUS NASHYD     5.0 01:A1A           21.43     .064 1970.0926_22:35  150.20 .314     .000
00814>        [CN= 36.1: N= 3.00: Tp= 1.68]
00815>        [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
00816>        [InterEventTime=  12.00]
00817> R1970:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00818>      CONTINUOUS NASHYD     5.0 01:A1B           4.70     .018 1970.0926_22:35  150.79 .316     .000
00819>        [CN= 44.6: N= 3.00: Tp= 1.72]
00820>        [IaREC= 6.00: SMIN=134.47: SMAX=896.47: SK= .030]
00821>        [InterEventTime=  12.00]
00822> R1970:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00823>      CONTINUOUS NASHYD     5.0 01:A2            9.14     .110 1970.0926_21:55  153.83 .322     .000
00824>        [CN= 68.4: N= 3.00: Tp= 1.12]
00825>        [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
00826>        [InterEventTime=  12.00]
00827> R1970:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00828>      ADD HYD               5.0 02:R2            73.56     .299 1970.0926_22:20  151.27  n/a     .000
00829>                         +  5.0 02:A1A           21.43     .064 1970.0926_22:35  150.20  n/a     .000
00830>                         +  5.0 02:A1B            4.70     .018 1970.0926_22:35  150.79  n/a     .000
00831>                         +  5.0 02:A2             9.14     .110 1970.0926_21:55  153.83  n/a     .000
00832>                    SUM=    5.0 01:J3           108.84     .481 1970.0926_22:15  151.25  n/a     .000
00833> R1970:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00834>      ROUTE CHANNEL    ->    5.0 02:J3           108.84     .481 1970.0926_22:15  151.25  n/a     .000
00835> *    [RDT= 5.00] out<-     5.0 01:R3           108.84     .466 1970.0926_22:30  151.25  n/a     .000
00836>        [L/S/n=  396./ .305/.035]
00837>        (Vmax=  .423:Dmax=  .327)
00838> R1970:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00839>      CONTINUOUS NASHYD     5.0 01:SOUTH-1       20.21     .066 1970.0926_22:15  150.11 .314     .000
00840>        [CN= 35.5: N= 3.00: Tp= 1.40]
00841>        [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
00842>        [InterEventTime=  12.00]
00843> R1970:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00844>      ADD HYD               5.0 02:R3           108.84     .466 1970.0926_22:30  151.25  n/a     .000
00845>                         +  5.0 02:SOUTH-1       20.21     .066 1970.0926_22:15  150.11  n/a     .000
00846>                    SUM=    5.0 01:J4           129.05     .531 1970.0926_22:30  151.07  n/a     .000
00847> R1970:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00848>      ROUTE CHANNEL    ->    5.0 02:J4           129.05     .531 1970.0926_22:30  151.07  n/a     .000
00849> *    [RDT= 5.00] out<-     5.0 01:R4           129.05     .519 1970.0926_22:45  151.07  n/a     .000
00850>        [L/S/n=  482./ .410/.035]
00851>        (Vmax=  .566:Dmax=  .319)
00852> R1970:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00853>      CONTINUOUS NASHYD     5.0 01:SOUTH-2       11.61     .055 1970.0926_21:50  150.20 .314     .000
00854>        [CN= 36.7: N= 3.00: Tp=  .96]
00855>        [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
00856>        [InterEventTime=  12.00]
00857> R1970:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00858>      ADD HYD               5.0 02:R4           129.05     .519 1970.0926_22:45  151.07  n/a     .000
00859>                         +  5.0 02:SOUTH-2       11.61     .055 1970.0926_21:50  150.20  n/a     .000
00860>                    SUM=    5.0 01:J5           140.66     .556 1970.0926_22:40  151.00  n/a     .000
00861> R1970:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00862>      ROUTE CHANNEL    ->    5.0 02:J5           140.66     .556 1970.0926_22:40  151.00  n/a     .000
00863> *    [RDT= 5.00] out<-     5.0 01:R5           140.66     .554 1970.0926_22:45  151.00  n/a     .000
00864>        [L/S/n=  181./ .500/.035]
00865>        (Vmax=  .534:Dmax=  .284)
00866> R1970:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00867>      CONTINUOUS NASHYD     5.0 01:SOUTH-3        7.98     .051 1970.0926_21:45  150.69 .315     .000
00868>        [CN= 42.6: N= 3.00: Tp=  .89]
00869>        [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
00870>        [InterEventTime=  12.00]
00871> R1970:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00872>      ADD HYD               5.0 02:R5           140.66     .554 1970.0926_22:45  151.00  n/a     .000
00873>                         +  5.0 02:SOUTH-3        7.98     .051 1970.0926_21:45  150.69  n/a     .000
00874>                    SUM=    5.0 01:J6           148.64     .583 1970.0926_22:40  150.98  n/a     .000
00875> R1970:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00876>      SAVE HYD              5.0 01:J6           148.64     .583 1970.0926_22:40  150.98  n/a     .000
00877>        fname:iJ6.1970
00878>        remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
00879> R1970:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00880>      ROUTE CHANNEL    ->    5.0 02:J6           148.64     .583 1970.0926_22:40  150.98  n/a     .000
00881> *    [RDT= 5.00] out<-     5.0 01:R6           148.64     .578 1970.0926_22:50  150.98  n/a     .000
00882>        [L/S/n=  323./ .440/.035]
00883>        (Vmax=  .595:Dmax=  .328)
00884> R1970:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00885>      CONTINUOUS NASHYD     5.0 01:SOUTH-4       14.99     .064 1970.0926_22:05  150.39 .315     .000
00886>        [CN= 39.5: N= 3.00: Tp= 1.23]
00887>        [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
00888>        [InterEventTime=  12.00]
00889> R1970:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00890>      ADD HYD               5.0 02:R6           148.64     .578 1970.0926_22:50  150.98  n/a     .000
00891>                         +  5.0 02:SOUTH-4       14.99     .064 1970.0926_22:05  150.39  n/a     .000
00892>                    SUM=    5.0 01:Total        163.63     .631 1970.0926_22:45  150.93  n/a     .000
00893> #===============================================================================
00894> #===============================================================================
00895> ###############################################################################
00896> # CONTINUOUS RAINFALL DATA
00897> ###############################################################################
00898> #*******************************************************************************
00899> # STORMS
00900> #*******************************************************************************

00901>   ** END OF RUN : 1970
00902>
00903> *******************************************************************************
00904>
00905>
00906>
00907>
00908>
00909> RUN#:COMMAND#
00910> R1971:C00001-------------------------------------------------------------------------------
00911>       START
00912>        [TZERO =    .00 hrs on 19710401]
00913>        [METOUT=   2      (1=imperial, 2=metric output)]
00914>        [NSTORM=   0 ]
00915>        [NRUN  = 1971 ]
00916> #*******************************************************************************
00917> #  SWMHYMO  / INPUT DATA FILE
00918> #*******************************************************************************
00919> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
00920> #  Date        : 04-28-2021
00921> #  Modeller    : [J.B]
00922> #  Company     : JFSAinc.
00923> #  License #   : 2549237
00924> #*******************************************************************************
00925> #*******************************************************************************
00926> #*******************************************************************************
00927> # Ottawa International Airport - April 1st to October 31st
00928> R1971:C00002-------------------------------------------------------------------------------
00929>       READ AES DATA
00930>        [Filename  = YOW_1967_2007.123                                          ]
00931>        [Start_date= 1971.0401: End_date= 1971.1031]
00932>        (DT= 60.min: Length= 5136.hrs: WetHrs=  370: DryHrs= 4766: PTOT= 480.90)
00933>        Maximum average rainfall intensities over
00934>          1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00935>         24.60    16.60    11.67     6.13     3.09     1.56     1.06      .79      .54    mm/hr
00936>         24.60    33.20    35.00    36.80    37.10    37.40    38.00    38.00    38.90    mm
00937>       19710810 19710810 19710810 19710810 19710810 19710810 19710811 19710812 19710830  date
00938>        Number of rainfall events per following interevent time
00939>          1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00940>           136      107       97       79       60       51       42       33       25
00941>        Number of events with at least the following durations
00942>          1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00943>           135       74       54       19        2        0        0        0        0
00944> R1971:C00003-------------------------------------------------------------------------------
00945>       COMPUTE API
00946>       [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
00947>       [APImax= 62.22: APIavg= 23.19: APImin=  8.21]
00948> R1971:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00949>      CONTINUOUS NASHYD     5.0 01:NORTH-1       34.70     .042 1971.0810_19:20  154.97 .322     .000
00950>        [CN= 38.1: N= 3.00: Tp= 4.12]
00951>        [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
00952>        [InterEventTime=  12.00]
00953> R1971:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00954>      CONTINUOUS NASHYD     5.0 01:NORTH-2       12.44     .059 1971.0810_16:40  155.25 .323     .000
00955>        [CN= 53.0: N= 3.00: Tp= 1.29]
00956>        [IaREC= 6.00: SMIN=  91.01: SMAX=606.70: SK= .030]
00957>        [InterEventTime=  12.00]
00958> R1971:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00959>      CONTINUOUS NASHYD     5.0 01:HWY-1         2.36     .030 1971.0810_16:30  156.69 .326     .000
00960>        [CN= 81.7: N= 3.00: Tp= 1.21]
00961>        [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
00962>        [InterEventTime=  12.00]
00963> R1971:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00964>      ADD HYD               5.0 02:NORTH-1       34.70     .042 1971.0810_19:20  154.97  n/a     .000
00965>                         +  5.0 02:NORTH-2       12.44     .059 1971.0810_16:40  155.25  n/a     .000
00966>                         +  5.0 02:HWY-1          2.36     .030 1971.0810_16:30  156.69  n/a     .000
00967>                    SUM=    5.0 01:J1            49.51     .114 1971.0810_16:45  155.13  n/a     .000
00968> R1971:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00969>      ROUTE CHANNEL    ->    5.0 02:J1            49.51     .114 1971.0810_16:45  155.13  n/a     .000
00970> *    [RDT= 5.00] out<-     5.0 01:R1            49.51     .111 1971.0810_17:00  155.12  n/a     .000
00971>        [L/S/n=  478./ .440/.035]
00972>        (Vmax=  .408:Dmax=  .175)
00973> R1971:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00974>      CONTINUOUS NASHYD     5.0 01:INT-1         4.39     .022 1971.0810_17:00  155.46 .323     .000
00975>        [CN= 60.4: N= 3.00: Tp= 1.66]
00976>        [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
00977>        [InterEventTime=  12.00]
00978> R1971:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00979>      CONTINUOUS NASHYD     5.0 01:INT-2         3.61     .017 1971.0810_16:25  155.13 .323     .000
00980>        [CN= 47.4: N= 3.00: Tp=  .95]
00981>        [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
00982>        [InterEventTime=  12.00]
00983> R1971:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00984>      CONTINUOUS NASHYD     5.0 01:A3A           3.84     .020 1971.0810_16:45  155.40 .323     .000
00985>        [CN= 58.4: N= 3.00: Tp= 1.46]
00986>        [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
00987>        [InterEventTime=  12.00]
00988> R1971:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00989>      CONTINUOUS NASHYD     5.0 01:A3B           5.29     .018 1971.0810_16:40  155.04 .322     .000
00990>        [CN= 42.6: N= 3.00: Tp= 1.26]
00991>        [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
00992>        [InterEventTime=  12.00]
00993> R1971:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00994>      CONTINUOUS NASHYD     5.0 01:A3C           1.21     .004 1971.0810_16:20  154.95 .322     .000
00995>        [CN= 37.8: N= 3.00: Tp=  .87]
00996>        [IaREC= 6.00: SMIN=179.29: SMAX=******: SK= .030]
00997>        [InterEventTime=  12.00]
00998> R1971:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00999>      ROUTE CHANNEL    ->    5.0 02:A3C           1.21     .004 1971.0810_16:20  154.95  n/a     .000
01000> *    [RDT= 5.00] out<-     5.0 01:A3C-R         1.21     .002 1971.0810_16:55  154.95  n/a     .000
01001>        [L/S/n=  500./ .140/.035]
01002>        (Vmax=  .094:Dmax=  .047)
01003> R1971:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01004>      CONTINUOUS NASHYD     5.0 01:INT-3         5.71     .040 1971.0810_16:20  155.40 .323     .000
01005>        [CN= 58.5: N= 3.00: Tp=  .89]
01006>        [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
01007>        [InterEventTime=  12.00]
01008> R1971:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01009>      ADD HYD               5.0 02:R1            49.51     .111 1971.0810_17:00  155.12  n/a     .000
01010>                         +  5.0 02:INT-1         4.39     .022 1971.0810_17:00  155.46  n/a     .000
01011>                         +  5.0 02:INT-2         3.61     .017 1971.0810_16:25  155.13  n/a     .000
01012>                         +  5.0 02:INT-3         5.71     .040 1971.0810_16:20  155.40  n/a     .000
01013>                         +  5.0 02:A3A           3.84     .020 1971.0810_16:45  155.40  n/a     .000
01014>                         +  5.0 02:A3B           5.29     .018 1971.0810_16:40  155.04  n/a     .000
01015>                         +  5.0 02:A3C-R         1.21     .002 1971.0810_16:55  154.95  n/a     .000
01016>                    SUM=    5.0 01:J2            73.56     .221 1971.0810_16:45  155.17  n/a     .000
01017> R1971:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01018>      ROUTE CHANNEL    ->    5.0 02:J2            73.56     .221 1971.0810_16:45  155.17  n/a     .000
01019> *    [RDT= 5.00] out<-     5.0 01:R2            73.56     .219 1971.0810_16:50  155.17  n/a     .000
01020>        [L/S/n=  359./ .560/.035]
01021>        (Vmax=  .472:Dmax=  .144)
01022> R1971:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01023>      CONTINUOUS NASHYD     5.0 01:A1A           21.43     .046 1971.0810_17:00  154.93 .322     .000
01024>        [CN= 36.1: N= 3.00: Tp= 1.68]
01025>        [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
01026>        [InterEventTime=  12.00]
01027> R1971:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01028>      CONTINUOUS NASHYD     5.0 01:A1B           4.70     .013 1971.0810_17:05  155.06 .322     .000
01029>        [CN= 44.6: N= 3.00: Tp= 1.72]
01030>        [IaREC= 6.00: SMIN=134.47: SMAX=896.47: SK= .030]
01031>        [InterEventTime=  12.00]
01032> R1971:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01033>      CONTINUOUS NASHYD     5.0 01:A2            9.14     .078 1971.0810_16:30  155.75 .324     .000
01034>        [CN= 68.4: N= 3.00: Tp= 1.12]
01035>        [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
01036>        [InterEventTime=  12.00]
01037> R1971:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01038>      ADD HYD               5.0 02:R2            73.56     .219 1971.0810_16:50  155.17  n/a     .000
01039>                         +  5.0 02:A1A           21.43     .046 1971.0810_17:00  154.93  n/a     .000
01040>                         +  5.0 02:A1B            4.70     .013 1971.0810_17:05  155.06  n/a     .000
01041>                         +  5.0 02:A2             9.14     .078 1971.0810_16:30  155.75  n/a     .000
01042>                    SUM=    5.0 01:J3           108.84     .351 1971.0810_16:45  155.17  n/a     .000
01043> R1971:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01044>      ROUTE CHANNEL    ->    5.0 02:J3           108.84     .351 1971.0810_16:45  155.17  n/a     .000
01045> *    [RDT= 5.00] out<-     5.0 01:R3           108.84     .340 1971.0810_17:05  155.17  n/a     .000
01046>        [L/S/n=  396./ .305/.035]
01047>        (Vmax=  .401:Dmax=  .291)
01048> R1971:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01049>      CONTINUOUS NASHYD     5.0 01:SOUTH-1       20.21     .047 1971.0810_16:45  154.91 .322     .000
01050>        [CN= 35.5: N= 3.00: Tp= 1.40]
01051>        [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
01052>        [InterEventTime=  12.00]
01053> R1971:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01054>      ADD HYD               5.0 02:R3           108.84     .340 1971.0810_17:05  155.17  n/a     .000
01055>                         +  5.0 02:SOUTH-1       20.21     .047 1971.0810_16:45  154.91  n/a     .000
01056>                    SUM=    5.0 01:J4           129.05     .386 1971.0810_17:00  155.13  n/a     .000
01057> R1971:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01058>      ROUTE CHANNEL    ->    5.0 02:J4           129.05     .386 1971.0810_17:00  155.13  n/a     .000
01059> *    [RDT= 5.00] out<-     5.0 01:R4           129.05     .378 1971.0810_17:15  155.13  n/a     .000
01060>        [L/S/n=  482./ .410/.035]
01061>        (Vmax=  .528:Dmax=  .278)
01062> R1971:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01063>      CONTINUOUS NASHYD     5.0 01:SOUTH-2       11.61     .036 1971.0810_16:25  154.93 .322     .000
01064>        [CN= 36.7: N= 3.00: Tp=  .96]
01065>        [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
01066>        [InterEventTime=  12.00]
01067> R1971:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01068>      ADD HYD               5.0 02:R4           129.05     .378 1971.0810_17:15  155.13  n/a     .000
01069>                         +  5.0 02:SOUTH-2       11.61     .036 1971.0810_16:25  154.93  n/a     .000
01070>                    SUM=    5.0 01:J5           140.66     .403 1971.0810_17:10  155.11  n/a     .000
01071> R1971:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01072>      ROUTE CHANNEL    ->    5.0 02:J5           140.66     .403 1971.0810_17:10  155.11  n/a     .000
01073> *    [RDT= 5.00] out<-     5.0 01:R5           140.66     .402 1971.0810_17:15  155.11  n/a     .000
01074>        [L/S/n=  181./ .500/.035]
01075>        (Vmax=  .503:Dmax=  .256)
01076> R1971:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01077>      CONTINUOUS NASHYD     5.0 01:SOUTH-3        7.98     .033 1971.0810_16:20  155.04 .322     .000
01078>        [CN= 42.6: N= 3.00: Tp=  .89]
01079>        [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
01080>        [InterEventTime=  12.00]
```

```
01081> R1971:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01082>     ADD HYD                5.0 02:R5          140.66     .402 1971.0810_17:15  155.11  n/a     .000
01083>                    +     5.0 02:SOUTH-3       7.98     .033 1971.0810_16:20  155.04  n/a     .000
01084>                  SUM=    5.0 01:J6          148.64     .422 1971.0810_17:10  155.11  n/a     .000
01085> R1971:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01086>     SAVE HYD               5.0 01:J6          148.64     .422 1971.0810_17:10  155.11  n/a     .000
01087>       fname :J6.1971
01088>       remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
01089> R1971:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01090>     ROUTE CHANNEL   ->     5.0 02:J6          148.64     .422 1971.0810_17:10  155.11  n/a     .000
01091> *   [RDT= 5.00] out<-     5.0 01:R6          148.64     .419 1971.0810_17:20  155.11  n/a     .000
01092>       [L/S/n=  323./ .440/.035]
01093>       [Vmax=  .553:Dmax=  .284]
01094> R1971:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01095>     CONTINUOUS NASHYD      5.0 01:SOUTH-4      14.99     .044 1971.0810_16:35  154.97 .322     .000
01096>       [CN= 39.5: N= 3.00: Tp= 1.23]
01097>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
01098>       [InterEventTime=  12.00]
01099> R1971:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01100>     ADD HYD                5.0 02:R6          148.64     .419 1971.0810_17:20  155.11  n/a     .000
01101>                    +     5.0 02:SOUTH-4      14.99     .044 1971.0810_16:35  154.97  n/a     .000
01102>                  SUM=    5.0 01:Total       163.63     .456 1971.0810_17:15  155.10  n/a     .000
01103> #========================================================================
01104> #========================================================================
01105> ##########################################################################
01106> # CONTINUOUS RAINFALL DATA
01107> ##########################################################################
01108> #************************************************************************
01109> # STORMS
01110> #************************************************************************
01111>   ** END OF RUN : 1971
01112>
01113> ************************************************************************************************************
01114>
01115>
01116>
01117>
01118>
01119>  RUN#:COMMAND#
01120> R1972:C00001------------------------------------------------------------------------------------------------
01121>       START
01122>       [TZERO =    .00 hrs on 19720401]
01123>       [METOUT=  2    (1=imperial, 2=metric output)]
01124>       [NSTORM=  0 ]
01125>       [NRUN  = 1972 ]
01126> #************************************************************************
01127> #  SWMHYMO  / INPUT DATA FILE
01128> #************************************************************************
01129> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
01130> #  Date        : 04-28-2021
01131> #  Modeller    : [J.B]
01132> #  Company     : JFSAinc.
01133> #  License #   : 2549237
01134> #************************************************************************
01135> #************************************************************************
01136> #************************************************************************
01137> # Ottawa International Airport - April 1st to October 31st
01138> R1972:C00002------------------------------------------------------------------------------------------------
01139>       READ AES DATA
01140>       [Filename  = YOW_1967_2007.123                                                    ]
01141>       [Start_date= 1972.0401: End_date= 1972.1031]
01142>       [DT= 60.min: Length= 5136.hrs: WetHrs=  434: DryHrs= 4702: PTOT= 722.10]
01143>       Maximum average rainfall intensities over
01144>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
01145>        37.30    19.15    12.97     8.15     4.50     2.53     2.00     1.71     1.17    mm/hr
01146>        37.30    38.30    38.90    48.90    54.00    60.70    72.10    82.20    84.20    mm
01147>       19720712 19720712 19720807 19720808 19720808 19720808 19720713 19720714 19720715  date
01148>       Number of rainfall events per following intervent time
01149>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
01150>          153      120      111       78       69       53       38       34       24
01151>       Number of events with at least the following durations
01152>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
01153>          152       88       53       19        4        0        0        0        0
01154> R1972:C00003------------------------------------------------------------------------------------------------
01155>       COMPUTE API
01156>       [APIini= 50.00: APIkdt= .9000: APIkdt= .9956]
01157>       [APImax=108.89: APIavg= 32.94: APImin=  4.26]
01158> R1972:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01159>     CONTINUOUS NASHYD      5.0 01:NORTH-1      34.70     .125 1972.0808_ 4:30  304.41 .422     .000
01160>       [CN= 38.1: N= 3.00: Tp= 4.12]
01161>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
01162>       [InterEventTime=  12.00]
01163> R1972:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01164>     CONTINUOUS NASHYD      5.0 01:NORTH-2      12.44     .130 1972.0807_23:55  305.77 .423     .000
01165>       [CN= 53.0: N= 3.00: Tp= 1.29]
01166>       [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
01167>       [InterEventTime=  12.00]
01168> R1972:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01169>     CONTINUOUS NASHYD      5.0 01:HWY-1        2.36     .055 1972.0807_23:50  312.29 .432     .000
01170>       [CN= 81.7: N= 3.00: Tp= 1.21]
01171>       [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
01172>       [InterEventTime=  12.00]
01173> R1972:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01174>     ADD HYD                5.0 02:NORTH-1      34.70     .125 1972.0808_ 4:30  304.41  n/a     .000
01175>                    +     5.0 02:NORTH-2      12.44     .130 1972.0807_23:55  305.77  n/a     .000
01176>                    +     5.0 02:HWY-1         2.36     .055 1972.0807_23:50  312.29  n/a     .000
01177>                  SUM=    5.0 01:J1          49.51     .233 1972.0808_ 0:05  305.13  n/a     .000
01178> R1972:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01179>     ROUTE CHANNEL   ->     5.0 02:J1          49.51     .233 1972.0808_ 0:05  305.13  n/a     .000
01180> *   [RDT= 5.00] out<-     5.0 01:R1          49.51     .229 1972.0808_ 0:20  305.13  n/a     .000
01181>       [L/S/n=  478./ .440/.035]
01182>       [Vmax=  .497:Dmax=  .237]
01183> R1972:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01184>     CONTINUOUS NASHYD      5.0 01:INT-1        4.39     .046 1972.0808_ 0:20  306.73 .425     .000
01185>       [CN= 60.4: N= 3.00: Tp= 1.66]
01186>       [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
01187>       [InterEventTime=  12.00]
01188> R1972:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01189>     CONTINUOUS NASHYD      5.0 01:INT-2        3.61     .040 1972.0807_23:40  305.17 .423     .000
01190>       [CN= 47.4: N= 3.00: Tp=  .95]
01191>       [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
01192>       [InterEventTime=  12.00]
01193> R1972:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01194>     CONTINUOUS NASHYD      5.0 01:A3A          3.84     .042 1972.0808_ 0:05  306.44 .424     .000
01195>       [CN= 58.4: N= 3.00: Tp= 1.46]
01196>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
01197>       [InterEventTime=  12.00]
01198> R1972:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01199>     CONTINUOUS NASHYD      5.0 01:A3B          5.29     .040 1972.0807_23:55  304.73 .422     .000
01200>       [CN= 42.6: N= 3.00: Tp= 1.26]
01201>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
01202>       [InterEventTime=  12.00]
01203> R1972:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01204>     CONTINUOUS NASHYD      5.0 01:A3C          1.21     .010 1972.0807_23:35  304.31 .421     .000
01205>       [CN= 37.8: N= 3.00: Tp=  .87]
01206>       [IaREC= 6.00: SMIN=179.29: SMAX=******: SK= .030]
01207>       [InterEventTime=  12.00]
01208> R1972:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01209>     ROUTE CHANNEL   ->     5.0 02:A3C          1.21     .010 1972.0807_23:35  304.31  n/a     .000
01210> *   [RDT= 5.00] out<-     5.0 01:A3C-R        1.21     .006 1972.0808_ 0:10  304.31  n/a     .000
01211>       [L/S/n=  500./ .140/.035]
01212>       [Vmax=  .126:Dmax=  .066]
01213> R1972:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01214>     CONTINUOUS NASHYD      5.0 01:INT-3        5.71     .093 1972.0807_23:35  306.44 .424     .000
01215>       [CN= 58.5: N= 3.00: Tp=  .89]
01216>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
01217>       [InterEventTime=  12.00]
01218> R1972:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01219>     ADD HYD                5.0 02:R1          49.51     .229 1972.0808_ 0:20  305.13  n/a     .000
01220>                    +     5.0 02:INT-1        4.39     .046 1972.0808_ 0:20  306.73  n/a     .000
01221>                    +     5.0 02:INT-2        3.61     .040 1972.0807_23:40  305.17  n/a     .000
01222>                    +     5.0 02:INT-3        5.71     .093 1972.0807_23:35  306.44  n/a     .000
01223>                    +     5.0 02:A3A          3.84     .042 1972.0808_ 0:05  306.44  n/a     .000
01224>                    +     5.0 02:A3B          5.29     .040 1972.0807_23:55  304.73  n/a     .000
01225>                    +     5.0 02:A3C-R        1.21     .006 1972.0808_ 0:10  304.31  n/a     .000
01226>                  SUM=    5.0 01:J2          73.56     .470 1972.0808_ 0:00  305.36  n/a     .000
01227> R1972:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01228>     ROUTE CHANNEL   ->     5.0 02:J2          73.56     .470 1972.0808_ 0:00  305.36  n/a     .000
01229> *   [RDT= 5.00] out<-     5.0 01:R2          73.56     .466 1972.0808_ 0:05  305.36  n/a     .000
01230>       [L/S/n=  359./ .560/.035]
01231>       [Vmax=  .614:Dmax=  .209]
01232> R1972:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01233>     CONTINUOUS NASHYD      5.0 01:A1A         21.43     .104 1972.0808_ 0:25  304.21 .421     .000
01234>       [CN= 36.1: N= 3.00: Tp= 1.68]
01235>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
01236>       [InterEventTime=  12.00]
01237> R1972:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01238>     CONTINUOUS NASHYD      5.0 01:A1B          4.70     .029 1972.0808_ 0:30  304.83 .422     .000
01239>       [CN= 44.6: N= 3.00: Tp= 1.72]
01240>       [IaREC= 6.00: SMIN=134.47: SMAX=896.47: SK= .030]
01241>       [InterEventTime=  12.00]
01242> R1972:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01243>     CONTINUOUS NASHYD      5.0 01:A2           9.14     .162 1972.0807_23:45  308.03 .427     .000
01244>       [CN= 68.4: N= 3.00: Tp= 1.12]
01245>       [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
01246>       [InterEventTime=  12.00]
01247> R1972:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01248>     ADD HYD                5.0 02:R2          73.56     .466 1972.0808_ 0:05  305.36  n/a     .000
01249>                    +     5.0 02:A1A         21.43     .104 1972.0808_ 0:25  304.21  n/a     .000
01250>                    +     5.0 02:A1B          4.70     .029 1972.0808_ 0:30  304.83  n/a     .000
01251>                    +     5.0 02:A2           9.14     .162 1972.0807_23:45  308.03  n/a     .000
01252>                  SUM=    5.0 01:J3         108.84     .748 1972.0808_ 0:05  305.33  n/a     .000
01253> R1972:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01254>     ROUTE CHANNEL   ->     5.0 02:J3         108.84     .748 1972.0808_ 0:05  305.33  n/a     .000
01255> *   [RDT= 5.00] out<-     5.0 01:R3         108.84     .731 1972.0808_ 0:15  305.33  n/a     .000
01256>       [L/S/n=  396./ .305/.035]
01257>       [Vmax=  .462:Dmax=  .380]
01258> R1972:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01259>     CONTINUOUS NASHYD      5.0 01:SOUTH-1      20.21     .107 1972.0808_ 0:05  304.12 .421     .000
01260>       [CN= 35.5: N= 3.00: Tp= 1.40]
01261>       [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
01262>       [InterEventTime=  12.00]
01263> R1972:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01264>     ADD HYD                5.0 02:R3          108.84     .731 1972.0808_ 0:15  305.33  n/a     .000
01265>                    +     5.0 02:SOUTH-1      20.21     .107 1972.0808_ 0:05  304.12  n/a     .000
01266>                  SUM=    5.0 01:J4          129.05     .837 1972.0808_ 0:15  305.14  n/a     .000
01267> R1972:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01268>     ROUTE CHANNEL   ->     5.0 02:J4          129.05     .837 1972.0808_ 0:15  305.14  n/a     .000
01269> *   [RDT= 5.00] out<-     5.0 01:R4          129.05     .823 1972.0808_ 0:30  305.14  n/a     .000
01270>       [L/S/n=  482./ .410/.035]
01271>       [Vmax=  .617:Dmax=  .379]
01272> R1972:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01273>     CONTINUOUS NASHYD      5.0 01:SOUTH-2      11.61     .087 1972.0807_23:40  304.21 .421     .000
01274>       [CN= 36.7: N= 3.00: Tp=  .96]
01275>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
01276>       [InterEventTime=  12.00]
01277> R1972:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01278>     ADD HYD                5.0 02:R4          129.05     .823 1972.0808_ 0:30  305.14  n/a     .000
01279>                    +     5.0 02:SOUTH-2      11.61     .087 1972.0807_23:40  304.21  n/a     .000
01280>                  SUM=    5.0 01:J5          140.66     .885 1972.0808_ 0:25  305.06  n/a     .000
01281> R1972:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01282>     ROUTE CHANNEL   ->     5.0 02:J5          140.66     .885 1972.0808_ 0:25  305.06  n/a     .000
01283> *   [RDT= 5.00] out<-     5.0 01:R5          140.66     .884 1972.0808_ 0:30  305.07  n/a     .000
01284>       [L/S/n=  181./ .500/.035]
01285>       [Vmax=  .618:Dmax=  .343]
01286> R1972:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01287>     CONTINUOUS NASHYD      5.0 01:SOUTH-3       7.98     .080 1972.0807_23:35  304.72 .422     .000
01288>       [CN= 42.6: N= 3.00: Tp=  .89]
01289>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
01290>       [InterEventTime=  12.00]
01291> R1972:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01292>     ADD HYD                5.0 02:R5          140.66     .884 1972.0808_ 0:30  305.07  n/a     .000
01293>                    +     5.0 02:SOUTH-3       7.98     .080 1972.0807_23:35  304.73  n/a     .000
01294>                  SUM=    5.0 01:J6          148.64     .935 1972.0808_ 0:25  305.05  n/a     .000
01295> R1972:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01296>     SAVE HYD               5.0 01:J6          148.64     .935 1972.0808_ 0:25  305.05  n/a     .000
01297>       fname :J6.1972
01298>       remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
01299> R1972:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01300>     ROUTE CHANNEL   ->     5.0 02:J6          148.64     .935 1972.0808_ 0:25  305.05  n/a     .000
01301> *   [RDT= 5.00] out<-     5.0 01:R6          148.64     .930 1972.0808_ 0:30  305.05  n/a     .000
01302>       [L/S/n=  323./ .440/.035]
01303>       [Vmax=  .651:Dmax=  .391]
01304> R1972:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01305>     CONTINUOUS NASHYD      5.0 01:SOUTH-4      14.99     .102 1972.0807_23:55  304.41 .422     .000
01306>       [CN= 39.5: N= 3.00: Tp= 1.23]
01307>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
01308>       [InterEventTime=  12.00]
01309> R1972:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01310>     ADD HYD                5.0 02:R6          148.64     .930 1972.0808_ 0:30  305.05  n/a     .000
01311>                    +     5.0 02:SOUTH-4      14.99     .102 1972.0807_23:55  304.41  n/a     .000
01312>                  SUM=    5.0 01:Total       163.63    1.020 1972.0808_ 0:30  304.99  n/a     .000
01313> #========================================================================
01314> #========================================================================
01315> ##########################################################################
01316> # CONTINUOUS RAINFALL DATA
01317> ##########################################################################
01318> #************************************************************************
01319> # STORMS
01320> #************************************************************************
01321>   ** END OF RUN : 1972
01322>
01323> ************************************************************************************************************
01324>
01325>
01326>
01327>
01328>
01329>  RUN#:COMMAND#
01330> R1973:C00001------------------------------------------------------------------------------------------------
01331>       START
01332>       [TZERO =    .00 hrs on 19730401]
01333>       [METOUT=  2    (1=imperial, 2=metric output)]
01334>       [NSTORM=  0 ]
01335>       [NRUN  = 1973 ]
01336> #************************************************************************
01337> #  SWMHYMO  / INPUT DATA FILE
01338> #************************************************************************
01339> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
01340> #  Date        : 04-28-2021
01341> #  Modeller    : [J.B]
01342> #  Company     : JFSAinc.
01343> #  License #   : 2549237
01344> #************************************************************************
01345> #************************************************************************
01346> #************************************************************************
01347> # Ottawa International Airport - April 1st to October 31st
01348> R1973:C00002------------------------------------------------------------------------------------------------
01349>       READ AES DATA
01350>       [Filename  = YOW_1967_2007.123                                                    ]
01351>       [Start_date= 1973.0401: End_date= 1973.1031]
01352>       [DT= 60.min: Length= 5136.hrs: WetHrs=  401: DryHrs= 4735: PTOT= 618.50]
01353>       Maximum average rainfall intensities over
01354>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
01355>        30.00    17.25    12.33     7.10     3.63     1.89     1.28      .96      .96    mm/hr
01356>        30.00    34.50    37.00    42.60    43.60    45.40    46.00    46.00    69.20    mm
01357>       19730611 19730808 19730808 19730808 19730808 19730616 19730616 19730616 19731005  date
01358>       Number of rainfall events per following intervent time
01359>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
01360>          143      118      107       82       59       45       39       29       26
01361>       Number of events with at least the following durations
01362>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
01363>          142       69       46       16        4        0        0        0        0
01364> R1973:C00003------------------------------------------------------------------------------------------------
01365>       COMPUTE API
01366>       [APIini= 50.00: APIkdt= .9000: APIkdt= .9956]
01367>       [APImax= 78.27: APIavg= 28.73: APImin=  5.57]
01368> R1973:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01369>     CONTINUOUS NASHYD      5.0 01:NORTH-1      34.70     .064 1973.0808_23:50  263.06 .425     .000
01370>       [CN= 38.1: N= 3.00: Tp= 4.12]
01371>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
01372>       [InterEventTime=  12.00]
01373> R1973:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01374>     CONTINUOUS NASHYD      5.0 01:NORTH-2      12.44     .099 1973.0808_21:00  264.24 .427     .000
01375>       [CN= 53.0: N= 3.00: Tp= 1.29]
01376>       [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
01377>       [InterEventTime=  12.00]
01378> R1973:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01379>     CONTINUOUS NASHYD      5.0 01:HWY-1        2.36     .047 1973.0808_20:55  269.03 .435     .000
01380>       [CN= 81.7: N= 3.00: Tp= 1.21]
01381>       [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
01382>       [InterEventTime=  12.00]
01383> R1973:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01384>     ADD HYD                5.0 02:NORTH-1      34.70     .064 1973.0808_23:50  263.06  n/a     .000
01385>                    +     5.0 02:NORTH-2      12.44     .099 1973.0808_21:00  264.24  n/a     .000
01386>                    +     5.0 02:HWY-1         2.36     .047 1973.0808_20:55  269.03  n/a     .000
01387>                  SUM=    5.0 01:J1          49.51     .179 1973.0808_21:10  263.64  n/a     .000
01388> R1973:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01389>     ROUTE CHANNEL   ->     5.0 02:J1          49.51     .179 1973.0808_21:10  263.64  n/a     .000
01390>   [RDT= 5.00] out<-     5.0 01:R1          49.51     .175 1973.0808_21:25  263.64  n/a     .000
01391>       [L/S/n=  478./ .440/.035]
01392>       [Vmax=  .464:Dmax=  .212]
01393> R1973:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01394>     CONTINUOUS NASHYD      5.0 01:INT-1        4.39     .036 1973.0808_21:25  265.06 .429     .000
01395>       [CN= 60.4: N= 3.00: Tp= 1.66]
01396>       [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
01397>       [InterEventTime=  12.00]
01398> R1973:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01399>     CONTINUOUS NASHYD      5.0 01:INT-2        3.61     .031 1973.0808_20:40  263.72 .426     .000
01400>       [CN= 47.4: N= 3.00: Tp=  .95]
01401>       [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
01402>       [InterEventTime=  12.00]
01403> R1973:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01404>     CONTINUOUS NASHYD      5.0 01:A3A          3.84     .033 1973.0808_21:10  264.81 .428     .000
01405>       [CN= 58.4: N= 3.00: Tp= 1.46]
01406>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
01407>       [InterEventTime=  12.00]
01408> R1973:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01409>     CONTINUOUS NASHYD      5.0 01:A3B          5.29     .030 1973.0808_21:00  263.34 .426     .000
01410>       [CN= 42.6: N= 3.00: Tp= 1.26]
01411>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
01412>       [InterEventTime=  12.00]
01413> R1973:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01414>     CONTINUOUS NASHYD      5.0 01:A3C          1.21     .008 1973.0808_20:40  262.97 .425     .000
01415>       [CN= 37.8: N= 3.00: Tp=  .87]
01416>       [IaREC= 6.00: SMIN=179.29: SMAX=******: SK= .030]
01417>       [InterEventTime=  12.00]
01418> R1973:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01419>     ROUTE CHANNEL   ->     5.0 02:A3C          1.21     .008 1973.0808_20:40  262.97  n/a     .000
01420>   [RDT= 5.00] out<-     5.0 01:A3C-R        1.21     .005 1973.0808_21:20  262.97  n/a     .000
01421>       [L/S/n=  500./ .140/.035]
01422>       [Vmax=  .110:Dmax=  .058]
01423> R1973:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01424>     CONTINUOUS NASHYD      5.0 01:INT-3        5.71     .073 1973.0808_20:40  264.81 .428     .000
01425>       [CN= 58.5: N= 3.00: Tp=  .89]
01426>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
01427>       [InterEventTime=  12.00]
01428> R1973:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01429>     ADD HYD                5.0 02:R1          49.51     .175 1973.0808_21:25  263.64  n/a     .000
01430>                    +     5.0 02:INT-1        4.39     .036 1973.0808_21:25  265.06  n/a     .000
01431>                    +     5.0 02:INT-2        3.61     .031 1973.0808_20:40  263.72  n/a     .000
01432>                    +     5.0 02:INT-3        5.71     .073 1973.0808_20:40  264.81  n/a     .000
01433>                    +     5.0 02:A3A          3.84     .033 1973.0808_21:10  264.81  n/a     .000
01434>                    +     5.0 02:A3B          5.29     .030 1973.0808_21:00  263.34  n/a     .000
01435>                    +     5.0 02:A3C-R        1.21     .005 1973.0808_21:20  262.97  n/a     .000
01436>                  SUM=    5.0 01:J2          73.56     .360 1973.0808_21:05  263.85  n/a     .000
01437> R1973:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01438>     ROUTE CHANNEL   ->     5.0 02:J2          73.56     .360 1973.0808_21:05  263.85  n/a     .000
01439> *   [RDT= 5.00] out<-     5.0 01:R2          73.56     .357 1973.0808_21:15  263.85  n/a     .000
01440>       [L/S/n=  359./ .560/.035]
```

```
01441>       (Vmax=  .562:Dmax=  .183)
01442> R1973:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01443>     CONTINUOUS NASHYD     5.0 01:A1A           21.43     .076 1973.0808_21:25  262.89 .425     .000
01444>       [CN= 36.1: N= 3.00: Tp= 1.68]
01445>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
01446>       [InterEventTime=  12.00]
01447> R1973:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01448>     CONTINUOUS NASHYD     5.0 01:A1B            4.70     .022 1973.0808_21:30  263.43 .426     .000
01449>       [CN= 44.6: N= 3.00: Tp= 1.72]
01450>       [IaREC= 6.00: SMIN=134.47: SMAX=896.47: SK= .030]
01451>       [InterEventTime=  12.00]
01452> R1973:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01453>     CONTINUOUS NASHYD     5.0 01:A2             9.14     .130 1973.0808_20:50  266.14 .430     .000
01454>       [CN= 68.4: N= 3.00: Tp= 1.12]
01455>       [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
01456>       [InterEventTime=  12.00]
01457> R1973:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01458>     ADD HYD               5.0 02:R2            73.56     .357 1973.0808_21:15  263.85  n/a     .000
01459>                     +     5.0 02:A1A           21.43     .076 1973.0808_21:25  262.89  n/a     .000
01460>                     +     5.0 02:A1B            4.70     .022 1973.0808_21:30  263.43  n/a     .000
01461>                     +     5.0 02:A2             9.14     .130 1973.0808_20:50  266.14  n/a     .000
01462>                   SUM=    5.0 01:J3           108.84     .574 1973.0808_21:10  263.83  n/a     .000
01463> R1973:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01464>     ROUTE CHANNEL   ->    5.0 02:J3           108.84     .574 1973.0808_21:10  263.83  n/a     .000
01465>       [RDT= 5.00] out<-   5.0 01:R3           108.84     .558 1973.0808_21:25  263.84  n/a     .000
01466>       [L/S/n=  396./ .305/ .035]
01467>       [Vmax=  .437:Dmax=  .347]
01468> R1973:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01469>     CONTINUOUS NASHYD     5.0 01:SOUTH-1       20.21     .078 1973.0808_21:10  262.80 .425     .000
01470>       [CN= 35.5: N= 3.00: Tp= 1.40]
01471>       [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
01472>       [InterEventTime=  12.00]
01473> R1973:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01474>     ADD HYD               5.0 02:R3           108.84     .558 1973.0808_21:25  263.84  n/a     .000
01475>                     +     5.0 02:SOUTH-1       20.21     .078 1973.0808_21:10  262.80  n/a     .000
01476>                   SUM=    5.0 01:J4           129.05     .634 1973.0808_21:20  263.67  n/a     .000
01477> R1973:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01478>     ROUTE CHANNEL   ->    5.0 02:J4           129.05     .634 1973.0808_21:20  263.67  n/a     .000
01479>       [RDT= 5.00] out<-   5.0 01:R4           129.05     .622 1973.0808_21:35  263.67  n/a     .000
01480>       [L/S/n=  482./ .410/.035]
01481>       [Vmax=  .585:Dmax=  .341]
01482> R1973:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01483>     CONTINUOUS NASHYD     5.0 01:SOUTH-2       11.61     .064 1973.0808_20:45  262.89 .425     .000
01484>       [CN= 36.7: N= 3.00: Tp=  .96]
01485>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
01486>       [InterEventTime=  12.00]
01487> R1973:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01488>     ADD HYD               5.0 02:R4           129.05     .622 1973.0808_21:35  263.67  n/a     .000
01489>                     +     5.0 02:SOUTH-2       11.61     .064 1973.0808_20:45  262.89  n/a     .000
01490>                   SUM=    5.0 01:J5           140.66     .665 1973.0808_21:30  263.61  n/a     .000
01491> R1973:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01492>     ROUTE CHANNEL   ->    5.0 02:J5           140.66     .665 1973.0808_21:30  263.61  n/a     .000
01493>       [RDT= 5.00] out<-   5.0 01:R5           140.66     .664 1973.0808_21:35  263.61  n/a     .000
01494>       [L/S/n=  181./ .500/.035]
01495>       [Vmax=  .560:Dmax=  .303]
01496> R1973:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01497>     CONTINUOUS NASHYD     5.0 01:SOUTH-3        7.98     .060 1973.0808_20:40  263.34 .426     .000
01498>       [CN= 42.6: N= 3.00: Tp=  .89]
01499>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
01500>       [InterEventTime=  12.00]
01501> R1973:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01502>     ADD HYD               5.0 02:R5           140.66     .664 1973.0808_21:35  263.61  n/a     .000
01503>                     +     5.0 02:SOUTH-3        7.98     .060 1973.0808_20:40  263.34  n/a     .000
01504>                   SUM=    5.0 01:J6           148.64     .699 1973.0808_21:30  263.59  n/a     .000
01505> R1973:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01506>     SAVE HYD              5.0 01:J6           148.64     .699 1973.0808_21:30  263.59  n/a     .000
01507>       fname :J6.1973
01508>       remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
01509> R1973:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01510>     ROUTE CHANNEL   ->    5.0 02:J6           148.64     .699 1973.0808_21:30  263.59  n/a     .000
01511>       [RDT= 5.00] out<-   5.0 01:R6           148.64     .694 1973.0808_21:40  263.59  n/a     .000
01512>       [L/S/n=  323./ .440/.035]
01513>       [Vmax=  .612:Dmax=  .349]
01514> R1973:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01515>     CONTINUOUS NASHYD     5.0 01:SOUTH-4       14.99     .076 1973.0808_21:00  263.06 .425     .000
01516>       [CN= 39.5: N= 3.00: Tp= 1.23]
01517>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
01518>       [InterEventTime=  12.00]
01519> R1973:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01520>     ADD HYD               5.0 02:R6           148.64     .694 1973.0808_21:40  263.59  n/a     .000
01521>                     +     5.0 02:SOUTH-4       14.99     .076 1973.0808_21:00  263.06  n/a     .000
01522>                   SUM=    5.0 01:Total        163.63     .757 1973.0808_21:35  263.55  n/a     .000
01523> #=============================================================
01524> #=============================================================
01525> ###########################################################################
01526> # CONTINUOUS RAINFALL DATA
01527> ###########################################################################
01528> **************************************************************
01529> # STORMS
01530> **************************************************************
01531>   ** END OF RUN : 1973
01532>
01533> ************************************************************************************************************
01534>
01535>
01536>
01537>
01538>
01539>  RUN#:#COMMAND#
01540> R1974:C00001------------------------------------------------------------------------------------------------
01541>      START
01542>       [TZERO =    .00 hrs on 19740401]
01543>       [METOUT=   2   (1=imperial, 2=metric output)]
01544>       [NSTORM=   0 ]
01545>       [NRUN  = 1974 ]
01546> #**************************************************************************
01547> #  SWMHYMO  / INPUT DATA FILE
01548> #**************************************************************************
01549> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
01550> #  Date        : 04-28-2021
01551> #  Modeller    : [J.B]
01552> #  Company     : JFSAinc.
01553> #  License #   :  2549237
01554> #**************************************************************************
01555> #**************************************************************************
01556> #**************************************************************************
01557> # Ottawa International Airport - April 1st to October 31st
01558> R1974:C00002------------------------------------------------------------------------------------------------
01559>   *  READ AES DATA
01560>       [Filename  = YOW_1967_2007.123                                    ]
01561>       [Start_date= 1974.0401: End_date= 1974.1031]
01562>       [DT= 60.min: Length= 4416.hrs: WetHrs=  281: DryHrs= 4135: PTOT= 332.10)
01563>       Maximum average rainfall intensities over
01564>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
01565>        20.60    15.40    10.37     5.18     2.59     1.35      .90      .68      .45    mm/hr
01566>        20.60    30.80    31.10    31.10    31.10    32.40    32.40    32.40    32.40    mm
01567>      19740718 19740719 19740719 19740719 19740719 19740719 19740719 19740720 19740720 19740721  date
01568>       Number of rainfall events per following interevent time
01569>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
01570>          117       95       83       68       56       43       31       26       16
01571>       Number of events with at least the following durations
01572>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
01573>          116       59       28        9        2        0        0        0        0
01574> R1974:C00003------------------------------------------------------------------------------------------------
01575>      COMPUTE API
01576>       [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
01577>       [APImax= 53.49: APIavg= 19.70: APImin=  .71]
01578> R1974:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01579>     CONTINUOUS NASHYD     5.0 01:NORTH-1       34.70     .023 1974.0719_ 4:30  74.60 .225     .000
01580>       [CN= 38.1: N= 3.00: Tp= 4.12]
01581>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
01582>       [InterEventTime=  12.00]
01583> R1974:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01584>     CONTINUOUS NASHYD     5.0 01:NORTH-2       12.44     .034 1974.0719_ 1:50  74.99 .226     .000
01585>       [CN= 53.0: N= 3.00: Tp= 1.29]
01586>       [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
01587>       [InterEventTime=  12.00]
01588> R1974:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01589>     CONTINUOUS NASHYD     5.0 01:HWY-1          2.36     .019 1974.0719_ 1:40  76.95 .232     .000
01590>       [CN= 81.7: N= 3.00: Tp= 1.21]
01591>       [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
01592>       [InterEventTime=  12.00]
01593> R1974:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01594>     ADD HYD               5.0 02:NORTH-1       34.70     .023 1974.0719_ 4:30  74.60  n/a     .000
01595>                     +     5.0 02:NORTH-2       12.44     .034 1974.0719_ 1:50  74.99  n/a     .000
01596>                     +     5.0 02:HWY-1          2.36     .019 1974.0719_ 1:40  76.95  n/a     .000
01597>                   SUM=    5.0 01:J1            49.51     .065 1974.0719_ 1:55  74.81  n/a     .000
01598> R1974:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01599>     ROUTE CHANNEL   ->    5.0 02:J1            49.51     .065 1974.0719_ 1:55  74.81  n/a     .000
01600> *   [RDT= 5.00] out<-   5.0 01:R1            49.51     .062 1974.0719_ 2:10  74.81  n/a     .000
01601>       [L/S/n=  478./ .440/.035]
01602>       [Vmax=  .344:Dmax=  .139]
01603> R1974:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01604>     CONTINUOUS NASHYD     5.0 01:INT-1          4.39     .013 1974.0719_ 2:05  75.27 .227     .000
01605>       [CN= 60.4: N= 3.00: Tp= 1.66]
01606>       [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
01607>       [InterEventTime=  12.00]
01608> R1974:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01609>     CONTINUOUS NASHYD     5.0 01:INT-2          3.61     .010 1974.0719_ 1:30  74.81 .225     .000
01610>       [CN= 47.4: N= 3.00: Tp=  .95]
01611>       [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
01612>       [InterEventTime=  12.00]
01613> R1974:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01614>     CONTINUOUS NASHYD     5.0 01:A3A            3.84     .011 1974.0719_ 1:55  75.19 .226     .000
01615>       [CN= 58.4: N= 3.00: Tp= 1.46]
01616>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
01617>       [InterEventTime=  12.00]
01618> R1974:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01619>     CONTINUOUS NASHYD     5.0 01:A3B            5.29     .010 1974.0719_ 1:45  74.68 .225     .000
01620>       [CN= 42.6: N= 3.00: Tp= 1.26]
01621>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
01622>       [InterEventTime=  12.00]
01623> R1974:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01624>     CONTINUOUS NASHYD     5.0 01:A3C            1.21     .002 1974.0719_ 1:30  74.57 .225     .000
01625>       [CN= 37.8: N= 3.00: Tp=  .87]
01626>       [IaREC= 6.00: SMIN=179.29: SMAX=******: SK= .030]
01627>       [InterEventTime=  12.00]
01628> R1974:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01629>     ROUTE CHANNEL   ->    5.0 02:A3C            1.21     .002 1974.0719_ 1:30  74.57  n/a     .000
01630> *   [RDT= 5.00] out<-   5.0 01:A3C-R          1.21     .001 1974.0719_ 2:20  74.57  n/a     .000
01631>       [L/S/n=  500./ .140/.035]
01632>       [Vmax=  .069:Dmax=  .035]
01633> R1974:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01634>     CONTINUOUS NASHYD     5.0 01:INT-3          5.71     .024 1974.0719_ 1:30  75.19 .226     .000
01635>       [CN= 58.5: N= 3.00: Tp=  .89]
01636>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
01637>       [InterEventTime=  12.00]
01638> R1974:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01639>     ADD HYD               5.0 02:R1            49.51     .062 1974.0719_ 2:10  74.81  n/a     .000
01640>                     +     5.0 02:INT-1          4.39     .013 1974.0719_ 2:05  75.27  n/a     .000
01641>                     +     5.0 02:INT-2          3.61     .010 1974.0719_ 1:30  74.81  n/a     .000
01642>                     +     5.0 02:INT-3          5.71     .024 1974.0719_ 1:30  75.19  n/a     .000
01643>                     +     5.0 02:A3A            3.84     .011 1974.0719_ 1:55  75.19  n/a     .000
01644>                     +     5.0 02:A3B            5.29     .010 1974.0719_ 1:45  74.68  n/a     .000
01645>                     +     5.0 02:A3C-R          1.21     .001 1974.0719_ 2:20  74.57  n/a     .000
01646>                   SUM=    5.0 01:J2            73.56     .124 1974.0719_ 1:55  74.87  n/a     .000
01647> R1974:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01648>     ROUTE CHANNEL   ->    5.0 02:J2            73.56     .124 1974.0719_ 1:55  74.87  n/a     .000
01649> *   [RDT= 5.00] out<-   5.0 01:R2            73.56     .122 1974.0719_ 2:00  74.87  n/a     .000
01650>       [L/S/n=  359./ .560/.035]
01651>       [Vmax=  .385:Dmax=  .110]
01652> R1974:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01653>     CONTINUOUS NASHYD     5.0 01:A1A           21.43     .025 1974.0719_ 2:10  74.54 .224     .000
01654>       [CN= 36.1: N= 3.00: Tp= 1.68]
01655>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
01656>       [InterEventTime=  12.00]
01657> R1974:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01658>     CONTINUOUS NASHYD     5.0 01:A1B            4.70     .007 1974.0719_ 2:10  74.71 .225     .000
01659> *     [CN= 44.6: N= 3.00: Tp= 1.72]
01660>       [IaREC= 6.00: SMIN=134.47: SMAX=896.47: SK= .030]
01661>       [InterEventTime=  12.00]
01662> R1974:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01663>     CONTINUOUS NASHYD     5.0 01:A2             9.14     .046 1974.0719_ 1:40  75.69 .228     .000
01664>       [CN= 68.4: N= 3.00: Tp= 1.12]
01665>       [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
01666>       [InterEventTime=  12.00]
01667> R1974:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01668>     ADD HYD               5.0 02:R2            73.56     .122 1974.0719_ 2:00  74.87  n/a     .000
01669>                     +     5.0 02:A1A           21.43     .025 1974.0719_ 2:10  74.54  n/a     .000
01670>                     +     5.0 02:A1B            4.70     .007 1974.0719_ 2:10  74.71  n/a     .000
01671>                     +     5.0 02:A2             9.14     .046 1974.0719_ 1:40  75.69  n/a     .000
01672>                   SUM=    5.0 01:J3           108.84     .197 1974.0719_ 1:55  74.87  n/a     .000
01673> R1974:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01674>     ROUTE CHANNEL   ->    5.0 02:J3           108.84     .197 1974.0719_ 1:55  74.87  n/a     .000
01675> *   [RDT= 5.00] out<-   5.0 01:R3           108.84     .190 1974.0719_ 2:15  74.87  n/a     .000
01676>       [L/S/n=  396./ .305/.035]
01677>       [Vmax=  .374:Dmax=  .228]
01678> R1974:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01679>     CONTINUOUS NASHYD     5.0 01:SOUTH-1       20.21     .026 1974.0719_ 1:55  74.52 .224     .000
01680>       [CN= 35.5: N= 3.00: Tp= 1.40]
01681>       [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
01682>       [InterEventTime=  12.00]
01683> R1974:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01684>     ADD HYD               5.0 02:R3           108.84     .190 1974.0719_ 2:15  74.87  n/a     .000
01685>                     +     5.0 02:SOUTH-1       20.21     .026 1974.0719_ 1:55  74.52  n/a     .000
01686>                   SUM=    5.0 01:J4           129.05     .215 1974.0719_ 2:10  74.81  n/a     .000
01687> R1974:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01688>     ROUTE CHANNEL   ->    5.0 02:J4           129.05     .215 1974.0719_ 2:10  74.81  n/a     .000
01689> *   [RDT= 5.00] out<-   5.0 01:R4           129.05     .209 1974.0719_ 2:25  74.81  n/a     .000
01690>       [L/S/n=  482./ .410/.035]
01691>       [Vmax=  .452:Dmax=  .218]
01692> R1974:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01693>     CONTINUOUS NASHYD     5.0 01:SOUTH-2       11.61     .020 1974.0719_ 1:30  74.54 .224     .000
01694>       [CN= 36.7: N= 3.00: Tp=  .96]
01695>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
01696>       [InterEventTime=  12.00]
01697> R1974:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01698>     ADD HYD               5.0 02:R4           129.05     .209 1974.0719_ 2:25  74.81  n/a     .000
01699>                     +     5.0 02:SOUTH-2       11.61     .020 1974.0719_ 1:30  74.54  n/a     .000
01700>                   SUM=    5.0 01:J5           140.66     .222 1974.0719_ 2:20  74.79  n/a     .000
01701> R1974:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01702>     ROUTE CHANNEL   ->    5.0 02:J5           140.66     .222 1974.0719_ 2:20  74.79  n/a     .000
01703> *   [RDT= 5.00] out<-   5.0 01:R5           140.66     .222 1974.0719_ 2:25  74.79  n/a     .000
01704>       [L/S/n=  181./ .500/.035]
01705>       [Vmax=  .433:Dmax=  .211]
01706> R1974:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01707>     CONTINUOUS NASHYD     5.0 01:SOUTH-3        7.98     .019 1974.0719_ 1:30  74.68 .225     .000
01708>       [CN= 42.6: N= 3.00: Tp=  .89]
01709>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
01710>       [InterEventTime=  12.00]
01711> R1974:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01712>     ADD HYD               5.0 02:R5           140.66     .222 1974.0719_ 2:25  74.79  n/a     .000
01713>                     +     5.0 02:SOUTH-3        7.98     .019 1974.0719_ 1:30  74.68  n/a     .000
01714>                   SUM=    5.0 01:J6           148.64     .233 1974.0719_ 2:20  74.79  n/a     .000
01715> R1974:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01716>     SAVE HYD              5.0 01:J6           148.64     .233 1974.0719_ 2:20  74.79  n/a     .000
01717>       fname :J6.1974
01718>       remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
01719> R1974:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01720>     ROUTE CHANNEL   ->    5.0 02:J6           148.64     .233 1974.0719_ 2:20  74.79  n/a     .000
01721> *   [RDT= 5.00] out<-   5.0 01:R6           148.64     .230 1974.0719_ 2:30  74.79  n/a     .000
01722>       [L/S/n=  323./ .440/.035]
01723>       [Vmax=  .475:Dmax=  .222]
01724> R1974:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01725>     CONTINUOUS NASHYD     5.0 01:SOUTH-4       14.99     .025 1974.0719_ 1:45  74.60 .225     .000
01726>       [CN= 39.5: N= 3.00: Tp= 1.23]
01727>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
01728>       [InterEventTime=  12.00]
01729> R1974:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01730>     ADD HYD               5.0 02:R6           148.64     .230 1974.0719_ 2:30  74.79  n/a     .000
01731>                     +     5.0 02:SOUTH-4       14.99     .025 1974.0719_ 1:45  74.60  n/a     .000
01732>                   SUM=    5.0 01:Total        163.63     .250 1974.0719_ 2:30  74.77  n/a     .000
01733> #=============================================================
01734> #=============================================================
01735> ###########################################################################
01736> # CONTINUOUS RAINFALL DATA
01737> ###########################################################################
01738> **************************************************************
01739> # STORMS
01740> **************************************************************
01741>   ** END OF RUN : 1974
01742>
01743> ************************************************************************************************************
01744>
01745>
01746>
01747>
01748>
01749>  RUN#:#COMMAND#
01750> R1975:C00001------------------------------------------------------------------------------------------------
01751>      START
01752>       [TZERO =    .00 hrs on 19750401]
01753>       [METOUT=   2   (1=imperial, 2=metric output)]
01754>       [NSTORM=   0 ]
01755>       [NRUN  = 1975 ]
01756> #**************************************************************************
01757> #  SWMHYMO  / INPUT DATA FILE
01758> #**************************************************************************
01759> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
01760> #  Date        : 04-28-2021
01761> #  Modeller    : [J.B]
01762> #  Company     : JFSAinc.
01763> #  License #   :  2549237
01764> #**************************************************************************
01765> #**************************************************************************
01766> #**************************************************************************
01767> # Ottawa International Airport - April 1st to October 31st
01768> R1975:C00002------------------------------------------------------------------------------------------------
01769>   *  READ AES DATA
01770>       [Filename  = YOW_1967_2007.123                                    ]
01771>       [Start_date= 1975.0401: End_date= 1975.1031]
01772>       [DT= 60.min: Length= 3672.hrs: WetHrs=  264: DryHrs= 3408: PTOT= 429.50)
01773>       Maximum average rainfall intensities over
01774>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
01775>        34.80    18.40    12.53     6.32     3.33     1.73     1.15      .87      .62    mm/hr
01776>        34.80    36.80    37.60    37.90    40.00    41.50    41.50    41.80    44.40    mm
01777>      19750708 19750720 19750720 19750720 19750720 19750721 19750721 19750721 19750928  date
01778>       Number of rainfall events per following interevent time
01779>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
01780>          109       94       78       58       47       36       27       23       16
01781>       Number of events with at least the following durations
01782>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
01783>          108       55       30       11        1        0        0        0        0
01784> R1975:C00003------------------------------------------------------------------------------------------------
01785>      COMPUTE API
01786>       [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
01787>       [APImax= 73.40: APIavg= 28.98: APImin=  5.65)
01788> R1975:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01789>     CONTINUOUS NASHYD     5.0 01:NORTH-1       34.70     .045 1975.0724_20:00  167.28 .389     .000
01790>       [CN= 38.1: N= 3.00: Tp= 4.12]
01791>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
01792>       [InterEventTime=  12.00]
01793> R1975:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01794>     CONTINUOUS NASHYD     5.0 01:NORTH-2       12.44     .063 1975.0720_17:50  168.05 .391     .000
01795>       [CN= 53.0: N= 3.00: Tp= 1.29]
01796>       [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
01797>       [InterEventTime=  12.00]
01798> R1975:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01799>     CONTINUOUS NASHYD     5.0 01:HWY-1          2.36     .031 1975.0720_17:40  171.48 .399     .000
01800>       [CN= 81.7: N= 3.00: Tp= 1.21]
```

```
01801>       [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
01802>       [InterEventTime=  12.00]
01803> R1975:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01804>     ADD HYD              5.0 02:NORTH-1        34.70     .045 1975.0724_20:00  167.28  n/a     .000
01805>                    +     5.0 02:NORTH-2        12.44     .063 1975.0720_17:50  168.05  n/a     .000
01806>                    +     5.0 02:HWY-1           2.36     .031 1975.0720_17:40  171.48  n/a     .000
01807>                SUM=      5.0 01:J1             49.51     .118 1975.0720_17:55  167.67  n/a     .000
01808> R1975:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01809>     ROUTE CHANNEL    ->     5.0 02:J1             49.51     .118 1975.0720_17:55  167.67  n/a     .000
01810> *   [RDT= 5.00] out<-     5.0 01:R1             49.51     .116 1975.0720_18:15  167.67  n/a     .000
01811>       [L/S/n=  478./ .440/.035]
01812>       [Vmax=  .413:Dmax=  .178]
01813> R1975:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01814>     CONTINUOUS NASHYD     5.0 01:INT-1           4.39     .023 1975.0720_18:10  168.59 .393     .000
01815>       [CN= 60.4: N= 3.00: Tp= 1.66]
01816>       [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
01817>       [InterEventTime=  12.00]
01818> R1975:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01819>     CONTINUOUS NASHYD     5.0 01:INT-2           3.61     .018 1975.0720_17:30  167.70 .390     .000
01820>       [CN= 47.4: N= 3.00: Tp=  .95]
01821>       [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
01822>       [InterEventTime=  12.00]
01823> R1975:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01824>     CONTINUOUS NASHYD     5.0 01:A3A             3.84     .021 1975.0720_18:00  168.42 .392     .000
01825>       [CN= 58.4: N= 3.00: Tp= 1.46]
01826>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
01827>       [InterEventTime=  12.00]
01828> R1975:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01829>     CONTINUOUS NASHYD     5.0 01:A3B             5.29     .019 1975.0720_17:50  167.46 .390     .000
01830>       [CN= 42.6: N= 3.00: Tp= 1.26]
01831>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
01832>       [InterEventTime=  12.00]
01833> R1975:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01834>     CONTINUOUS NASHYD     5.0 01:A3C             1.21     .004 1975.0720_17:30  167.23 .389     .000
01835>       [CN= 37.8: N= 3.00: Tp=  .87]
01836>       [IaREC= 6.00: SMIN=179.29: SMAX=******: SK= .030]
01837>       [InterEventTime=  12.00]
01838> R1975:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01839>     ROUTE CHANNEL    ->     5.0 02:A3C             1.21     .004 1975.0720_17:30  167.22  n/a     .000
01840>     [RDT= 5.00] out<-     5.0 01:A3C-R           1.21     .002 1975.0720_18:05  167.22  n/a     .000
01841>       [L/S/n=  500./ .140/.035]
01842>       [Vmax=  .096:Dmax=  .048]
01843> R1975:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01844>     CONTINUOUS NASHYD     5.0 01:INT-3           5.71     .043 1975.0720_17:30  168.42 .392     .000
01845>       [CN= 58.5: N= 3.00: Tp=  .89]
01846>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
01847>       [InterEventTime=  12.00]
01848> R1975:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01849>     ADD HYD              5.0 02:R1             49.51     .116 1975.0720_18:15  167.67  n/a     .000
01850>                    +     5.0 02:INT-1           4.39     .023 1975.0720_18:10  168.59  n/a     .000
01851>                    +     5.0 02:INT-2           3.61     .018 1975.0720_17:30  167.70  n/a     .000
01852>                    +     5.0 02:INT-3           5.71     .043 1975.0720_17:30  168.42  n/a     .000
01853>                    +     5.0 02:A3A             3.84     .021 1975.0720_18:00  168.42  n/a     .000
01854>                    +     5.0 02:A3B             5.29     .019 1975.0720_17:50  167.46  n/a     .000
01855>                    +     5.0 02:A3C-R           1.21     .002 1975.0720_18:05  167.22  n/a     .000
01856>                SUM=      5.0 01:J2             73.56     .231 1975.0720_17:55  167.80  n/a     .000
01857> R1975:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01858>     ROUTE CHANNEL    ->     5.0 02:J2             73.56     .231 1975.0720_17:55  167.80  n/a     .000
01859>     [RDT= 5.00] out<-     5.0 01:R2             73.56     .229 1975.0720_18:00  167.80  n/a     .000
01860>       [L/S/n=  359./ .560/.035]
01861>       [Vmax=  .482:Dmax=  .147]
01862> R1975:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01863>     CONTINUOUS NASHYD     5.0 01:A1A            21.43     .049 1975.0720_18:15  167.17 .389     .000
01864>       [CN= 36.1: N= 3.00: Tp= 1.68]
01865>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
01866>       [InterEventTime=  12.00]
01867> R1975:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01868>     CONTINUOUS NASHYD     5.0 01:A1B             4.70     .014 1975.0720_18:15  167.52 .390     .000
01869>       [CN= 44.6: N= 3.00: Tp= 1.72]
01870>       [IaREC= 6.00: SMIN=134.47: SMAX=896.47: SK= .030]
01871>       [InterEventTime=  12.00]
01872> R1975:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01873>     CONTINUOUS NASHYD     5.0 01:A2              9.14     .083 1975.0720_17:40  169.33 .394     .000
01874>       [CN= 68.4: N= 3.00: Tp= 1.12]
01875>       [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
01876>       [InterEventTime=  12.00]
01877> R1975:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01878>     ADD HYD              5.0 02:R2             73.56     .229 1975.0720_18:00  167.80  n/a     .000
01879>                    +     5.0 02:A1A            21.43     .049 1975.0720_18:15  167.17  n/a     .000
01880>                    +     5.0 02:A1B             4.70     .014 1975.0720_18:15  167.52  n/a     .000
01881>                    +     5.0 02:A2              9.14     .083 1975.0720_17:40  169.33  n/a     .000
01882>                SUM=      5.0 01:J3            108.84     .368 1975.0720_18:00  167.79  n/a     .000
01883> R1975:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01884>     ROUTE CHANNEL    ->     5.0 02:J3            108.84     .368 1975.0720_18:00  167.79  n/a     .000
01885>     [RDT= 5.00] out<-     5.0 01:R3            108.84     .357 1975.0720_18:15  167.79  n/a     .000
01886>       [L/S/n=  396./ .305/.035]
01887>       [Vmax=  .404:Dmax=  .296]
01888> R1975:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01889>     CONTINUOUS NASHYD     5.0 01:SOUTH-1        20.21     .049 1975.0720_17:55  167.12 .389     .000
01890>       [CN= 35.5: N= 3.00: Tp= 1.40]
01891>       [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
01892>       [InterEventTime=  12.00]
01893> R1975:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01894>     ADD HYD              5.0 02:R3            108.84     .357 1975.0720_18:15  167.79  n/a     .000
01895>                    +     5.0 02:SOUTH-1        20.21     .049 1975.0720_17:55  167.12  n/a     .000
01896>                SUM=      5.0 01:J4            129.05     .405 1975.0720_18:10  167.69  n/a     .000
01897> R1975:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01898>     ROUTE CHANNEL    ->     5.0 02:J4            129.05     .405 1975.0720_18:10  167.69  n/a     .000
01899>     [RDT= 5.00] out<-     5.0 01:R4            129.05     .397 1975.0720_18:25  167.69  n/a     .000
01900>       [L/S/n=  482./ .410/.035]
01901>       [Vmax=  .533:Dmax=  .283]
01902> R1975:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01903>     CONTINUOUS NASHYD     5.0 01:SOUTH-2        11.61     .038 1975.0720_17:35  167.17 .389     .000
01904>       [CN= 36.7: N= 3.00: Tp=  .96]
01905>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
01906>       [InterEventTime=  12.00]
01907> R1975:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01908>     ADD HYD              5.0 02:R4            129.05     .397 1975.0720_18:25  167.69  n/a     .000
01909>                    +     5.0 02:SOUTH-2        11.61     .038 1975.0720_17:35  167.17  n/a     .000
01910>                SUM=      5.0 01:J5            140.66     .424 1975.0720_18:20  167.65  n/a     .000
01911> R1975:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01912>     ROUTE CHANNEL    ->     5.0 02:J5            140.66     .424 1975.0720_18:20  167.65  n/a     .000
01913>     [RDT= 5.00] out<-     5.0 01:R5            140.66     .422 1975.0720_18:25  167.65  n/a     .000
01914>       [L/S/n=  181./ .500/.035]
01915>       [Vmax=  .507:Dmax=  .260]
01916> R1975:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01917>     CONTINUOUS NASHYD     5.0 01:SOUTH-3         7.98     .035 1975.0720_17:30  167.46 .390     .000
01918>       [CN= 42.6: N= 3.00: Tp=  .89]
01919>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
01920>       [InterEventTime=  12.00]
01921> R1975:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01922>     ADD HYD              5.0 02:R5            140.66     .422 1975.0720_18:25  167.65  n/a     .000
01923>                    +     5.0 02:SOUTH-3         7.98     .035 1975.0720_17:30  167.46  n/a     .000
01924>                SUM=      5.0 01:J6            148.64     .444 1975.0720_18:25  167.64  n/a     .000
01925> R1975:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01926>     SAVE HYD             5.0 01:J6            148.64     .444 1975.0720_18:25  167.64  n/a     .000
01927>       fname :J6.1975
01928>       remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
01929> R1975:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01930>     ROUTE CHANNEL    ->     5.0 02:J6            148.64     .444 1975.0720_18:25  167.64  n/a     .000
01931>     [RDT= 5.00] out<-     5.0 01:R6            148.64     .441 1975.0720_18:30  167.64  n/a     .000
01932>       [L/S/n=  323./ .440/.035]
01933>       [Vmax=  .558:Dmax=  .290]
01934> R1975:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01935>     CONTINUOUS NASHYD     5.0 01:SOUTH-4        14.99     .047 1975.0720_17:45  167.28 .389     .000
01936>       [CN= 39.5: N= 3.00: Tp= 1.23]
01937>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
01938>       [InterEventTime=  12.00]
01939> R1975:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01940>     ADD HYD              5.0 02:R6            148.64     .441 1975.0720_18:30  167.64  n/a     .000
01941>                    +     5.0 02:SOUTH-4        14.99     .047 1975.0720_17:45  167.28  n/a     .000
01942>                SUM=      5.0 01:Total         163.63     .480 1975.0720_18:30  167.60  n/a     .000
01943> #=============================================================================
01944> #=============================================================================
01945> ###############################################################################
01946> # CONTINUOUS RAINFALL DATA
01947> ###############################################################################
01948> #*****************************************************************************
01949> # STORMS
01950> #*****************************************************************************
01951>   ** END OF RUN : 1975
01952>
01953> ******************************************************************************************************
01954>
01955>
01956>
01957>
01958>
01959>  RUN#:COMMAND#
01960> R1976:C00001------------------------------------------------------------------------------------------
01961>       START
01962>       [TZERO =    .00 hrs on 19760401]
01963>       [METOUT=  2    (1=imperial, 2=metric output)]
01964>       [NSTORM=  0 ]
01965>       [NRUN  = 1976 ]
01966> #*****************************************************************************
01967> #  SWMHYMO  / INPUT DATA FILE
01968> #*****************************************************************************
01969> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
01970> #  Date       : 04-28-2021
01971> #  Modeller   : [J.B]
01972> #  Company    : JFSAinc.
01973> #  License #  : 2549237
01974> #*****************************************************************************
01975> #*****************************************************************************
01976> #*****************************************************************************
01977> # Ottawa International Airport - April 1st to October 31st
01978> R1976:C00002------------------------------------------------------------------------------------------
01979>   *  READ AES DATA
01980>       [Filename  = YOW_1967_2007.123                                    ]

01981>       [Start_date= 1976.0401: End_date= 1976.1031]
01982>       [DT= 60.min: Length= 5136.hrs: WetHrs=  352: DryHrs= 4784: PTOT= 465.00)
01983>       Maximum average rainfall intensities over
01984>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
01985>        14.00     8.90     6.43     4.65     2.35     1.39      .97      .99      .80    mm/hr
01986>        14.00    17.80    19.30    27.90    28.20    33.30    35.10    47.60    57.50    mm
01987>       19760828 19760828 19760828 19760828 19760828 19760920 19760520 19760520 19760921  date
01988>       Number of rainfall events per following interevent time
01989>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
01990>          141      117      104       78       61       53       37       31       22
01991>       Number of events with at least the following durations
01992>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
01993>          141       74       44       14        2        0        0        0        0
01994> R1976:C00003------------------------------------------------------------------------------------------
01995>       COMPUTE API
01996>       [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
01997>       [APImax= 64.13: APImin= 22.15: APImin= 4.34]
01998> R1976:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01999>     CONTINUOUS NASHYD     5.0 01:NORTH-1        34.70     .035 1976.0520_ 1:55  127.03 .273     .000
02000>       [CN= 38.1: N= 3.00: Tp= 1.12]
02001>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
02002>       [InterEventTime=  12.00]
02003> R1976:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02004>     CONTINUOUS NASHYD     5.0 01:NORTH-2        12.44     .032 1976.0519_23:25  127.91 .275     .000
02005>       [CN= 53.0: N= 3.00: Tp= 1.29]
02006>       [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
02007>       [InterEventTime=  12.00]
02008> R1976:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02009>     CONTINUOUS NASHYD     5.0 01:HWY-1           2.36     .014 1976.0519_23:20  131.96 .284     .000
02010>       [CN= 81.7: N= 3.00: Tp= 1.21]
02011>       [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
02012>       [InterEventTime=  12.00]
02013> R1976:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02014>     ADD HYD              5.0 02:NORTH-1        34.70     .035 1976.0520_ 1:55  127.03  n/a     .000
02015>                    +     5.0 02:NORTH-2        12.44     .032 1976.0519_23:25  127.91  n/a     .000
02016>                    +     5.0 02:HWY-1           2.36     .014 1976.0519_23:20  131.96  n/a     .000
02017>                SUM=      5.0 01:J1             49.51     .074 1976.0519_23:40  127.49  n/a     .000
02018> R1976:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02019>     ROUTE CHANNEL    ->     5.0 02:J1             49.51     .074 1976.0519_23:40  127.49  n/a     .000
02020> *   [RDT= 5.00] out<-     5.0 01:R1             49.51     .073 1976.0519_23:55  127.49  n/a     .000
02021>       [L/S/n=  478./ .440/.035]
02022>       [Vmax=  .360:Dmax=  .146]
02023> R1976:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02024>     CONTINUOUS NASHYD     5.0 01:INT-1           4.39     .013 1976.0519_23:40  128.55 .276     .000
02025>       [CN= 60.4: N= 3.00: Tp= 1.66]
02026>       [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
02027>       [InterEventTime=  12.00]
02028> R1976:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02029>     CONTINUOUS NASHYD     5.0 01:INT-2           3.61     .008 1976.0519_23:15  127.52 .274     .000
02030>       [CN= 47.4: N= 3.00: Tp=  .95]
02031>       [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
02032>       [InterEventTime=  12.00]
02033> R1976:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02034>     CONTINUOUS NASHYD     5.0 01:A3A             3.84     .011 1976.0519_23:35  128.35 .276     .000
02035>       [CN= 58.4: N= 3.00: Tp= 1.46]
02036>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
02037>       [InterEventTime=  12.00]
02038> R1976:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02039>     CONTINUOUS NASHYD     5.0 01:A3B             5.29     .010 1976.0519_23:25  127.23 .274     .000
02040>       [CN= 42.6: N= 3.00: Tp= 1.26]
02041>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
02042>       [InterEventTime=  12.00]
02043> R1976:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02044>     CONTINUOUS NASHYD     5.0 01:A3C             1.21     .002 1976.0519_23:15  126.96 .273     .000
02045>       [CN= 37.8: N= 3.00: Tp=  .87]
02046>       [IaREC= 6.00: SMIN=179.29: SMAX=******: SK= .030]
02047>       [InterEventTime=  12.00]
02048> R1976:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02049>     ROUTE CHANNEL    ->     5.0 02:A3C             1.21     .002 1976.0519_23:15  126.97  n/a     .000
02050> *   [RDT= 5.00] out<-     5.0 01:A3C-R           1.21     .002 1976.0519_23:55  126.96  n/a     .000
02051>       [L/S/n=  500./ .140/.035]
02052>       [Vmax=  .066:Dmax=  .033]
02053> R1976:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02054>     CONTINUOUS NASHYD     5.0 01:INT-3           5.71     .018 1976.0519_23:15  128.35 .276     .000
02055>       [CN= 58.5: N= 3.00: Tp=  .89]
02056>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
02057>       [InterEventTime=  12.00]
02058> R1976:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02059>     ADD HYD              5.0 02:R1             49.51     .073 1976.0519_23:55  127.49  n/a     .000
02060>                    +     5.0 02:INT-1           4.39     .013 1976.0519_23:40  128.55  n/a     .000
02061>                    +     5.0 02:INT-2           3.61     .008 1976.0519_23:15  127.52  n/a     .000
02062>                    +     5.0 02:INT-3           5.71     .018 1976.0519_23:15  128.35  n/a     .000
02063>                    +     5.0 02:A3A             3.84     .011 1976.0519_23:35  128.35  n/a     .000
02064>                    +     5.0 02:A3B             5.29     .010 1976.0519_23:25  127.23  n/a     .000
02065>                    +     5.0 02:A3C-R           1.21     .002 1976.0519_23:55  126.96  n/a     .000
02066>                SUM=      5.0 01:J2             73.56     .133 1976.0519_23:35  127.64  n/a     .000
02067> R1976:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02068>     ROUTE CHANNEL    ->     5.0 02:J2             73.56     .133 1976.0519_23:35  127.64  n/a     .000
02069> *   [RDT= 5.00] out<-     5.0 01:R2             73.56     .132 1976.0519_23:40  127.64  n/a     .000
02070>       [L/S/n=  359./ .560/.035]
02071>       [Vmax=  .400:Dmax=  .114]
02072> R1976:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02073>     CONTINUOUS NASHYD     5.0 01:A1A            21.43     .029 1976.0519_23:45  126.90 .273     .000
02074>       [CN= 36.1: N= 3.00: Tp= 1.68]
02075>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
02076>       [InterEventTime=  12.00]
02077> R1976:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02078>     CONTINUOUS NASHYD     5.0 01:A1B             4.70     .008 1976.0519_23:45  127.30 .274     .000
02079>       [CN= 44.6: N= 3.00: Tp= 1.72]
02080>       [IaREC= 6.00: SMIN=134.47: SMAX=896.47: SK= .030]
02081>       [InterEventTime=  12.00]
02082> R1976:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02083>     CONTINUOUS NASHYD     5.0 01:A2              9.14     .038 1976.0519_23:20  129.42 .278     .000
02084>       [CN= 68.4: N= 3.00: Tp= 1.12]
02085>       [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
02086>       [InterEventTime=  12.00]
02087> R1976:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02088>     ADD HYD              5.0 02:R2             73.56     .132 1976.0519_23:40  127.64  n/a     .000
02089>                    +     5.0 02:A1A            21.43     .029 1976.0519_23:45  126.90  n/a     .000
02090>                    +     5.0 02:A1B             4.70     .008 1976.0519_23:45  127.30  n/a     .000
02091>                    +     5.0 02:A2              9.14     .038 1976.0519_23:20  129.42  n/a     .000
02092>                SUM=      5.0 01:J3            108.84     .206 1976.0519_23:35  127.63  n/a     .000
02093> R1976:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02094>     ROUTE CHANNEL    ->     5.0 02:J3            108.84     .206 1976.0519_23:35  127.63  n/a     .000
02095> *   [RDT= 5.00] out<-     5.0 01:R3            108.84     .204 1976.0519_23:45  127.63  n/a     .000
02096>       [L/S/n=  396./ .305/.035]
02097>       [Vmax=  .379:Dmax=  .233]
02098> R1976:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02099>     CONTINUOUS NASHYD     5.0 01:SOUTH-1        20.21     .027 1976.0519_23:35  126.84 .273     .000
02100>       [CN= 35.5: N= 3.00: Tp= 1.40]
02101>       [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
02102>       [InterEventTime=  12.00]
02103> R1976:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02104>     ADD HYD              5.0 02:R3            108.84     .204 1976.0519_23:45  127.63  n/a     .000
02105>                    +     5.0 02:SOUTH-1        20.21     .027 1976.0519_23:35  126.84  n/a     .000
02106>                SUM=      5.0 01:J4            129.05     .231 1976.0519_23:45  127.50  n/a     .000
02107> R1976:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02108>     ROUTE CHANNEL    ->     5.0 02:J4            129.05     .231 1976.0519_23:45  127.50  n/a     .000
02109> *   [RDT= 5.00] out<-     5.0 01:R4            129.05     .229 1976.0519_23:55  127.50  n/a     .000
02110>       [L/S/n=  482./ .410/.035]
02111>       [Vmax=  .463:Dmax=  .225]
02112> R1976:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02113>     CONTINUOUS NASHYD     5.0 01:SOUTH-2        11.61     .018 1976.0519_23:20  126.90 .273     .000
02114>       [CN= 36.7: N= 3.00: Tp=  .96]
02115>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
02116>       [InterEventTime=  12.00]
02117> R1976:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02118>     ADD HYD              5.0 02:R4            129.05     .229 1976.0519_23:55  127.50  n/a     .000
02119>                    +     5.0 02:SOUTH-2        11.61     .018 1976.0519_23:20  126.90  n/a     .000
02120>                SUM=      5.0 01:J5            140.66     .244 1976.0519_23:50  127.45  n/a     .000
02121> R1976:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02122>     ROUTE CHANNEL    ->     5.0 02:J5            140.66     .244 1976.0519_23:50  127.45  n/a     .000
02123> *   [RDT= 5.00] out<-     5.0 01:R5            140.66     .244 1976.0519_23:55  127.45  n/a     .000
02124>       [L/S/n=  181./ .500/.035]
02125>       [Vmax=  .458:Dmax=  .222]
02126> R1976:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02127>     CONTINUOUS NASHYD     5.0 01:SOUTH-3         7.98     .016 1976.0519_23:15  127.23 .274     .000
02128>       [CN= 42.6: N= 3.00: Tp=  .89]
02129>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
02130>       [InterEventTime=  12.00]
02131> R1976:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02132>     ADD HYD              5.0 02:R5            140.66     .244 1976.0519_23:55  127.45  n/a     .000
02133>                    +     5.0 02:SOUTH-3         7.98     .016 1976.0519_23:15  127.23  n/a     .000
02134>                SUM=      5.0 01:J6            148.64     .258 1976.0519_23:50  127.44  n/a     .000
02135> R1976:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02136>     SAVE HYD             5.0 01:J6            148.64     .258 1976.0519_23:50  127.44  n/a     .000
02137>       fname :J6.1976
02138>       remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
02139> R1976:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02140>     ROUTE CHANNEL    ->     5.0 02:J6            148.64     .258 1976.0519_23:50  127.44  n/a     .000
02141> *   [RDT= 5.00] out<-     5.0 01:R6            148.64     .257 1976.0519_23:55  127.44  n/a     .000
02142>       [L/S/n=  323./ .440/.035]
02143>       [Vmax=  .494:Dmax=  .233]
02144> R1976:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02145>     CONTINUOUS NASHYD     5.0 01:SOUTH-4        14.99     .024 1976.0519_23:25  127.03 .273     .000
02146>       [CN= 39.5: N= 3.00: Tp= 1.23]
02147>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
02148>       [InterEventTime=  12.00]
02149> R1976:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02150>     ADD HYD              5.0 02:R6            148.64     .257 1976.0519_23:55  127.44  n/a     .000
02151>                    +     5.0 02:SOUTH-4        14.99     .024 1976.0519_23:25  127.03  n/a     .000
02152>                SUM=      5.0 01:Total         163.63     .280 1976.0519_23:55  127.40  n/a     .000
02153> #=============================================================================
02154> #=============================================================================
02155> ###############################################################################
02156> # CONTINUOUS RAINFALL DATA
02157> ###############################################################################
02158> #*****************************************************************************
02159> # STORMS
02160> #*****************************************************************************
```

```
02161>   ** END OF RUN : 1976
02162>
02163> ************************************************************************************************
02164>
02165>
02166>
02167>
02168>
02169>  RUN#:COMMAND#
02170> R1977:C00001-------------------------------------------------------------------------------------
02171>      START
02172>       [TZERO =     .00 hrs on 19770401]
02173>       [METOUT=   2     (1=imperial, 2=metric output)]
02174>       [NSTORM=   0 ]
02175>       [NRUN  = 1977 ]
02176> #*************************************************************************
02177> #  SWMHYMO  / INPUT DATA FILE
02178> #*************************************************************************
02179> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
02180> #  Date        : 04-28-2021
02181> #  Modeller    : [J.B]
02182> #  Company     : JFSAinc.
02183> #  License #   : 2549237
02184> #*************************************************************************
02185> #*************************************************************************
02186> #*************************************************************************
02187> # Ottawa International Airport - April 1st to October 31st
02188> R1977:C00002-------------------------------------------------------------------------------------
02189>   *  READ AES DATA
02190>       [Filename  = YOW_1967_2007.123                                    ]
02191>       [Start_date= 1977.0401: End_date= 1977.1031]
02192>       [DT= 60.min: Length= 5136.hrs: WetHrs=  378: DryHrs= 4758: PTOT= 532.10)
02193>       Maximum average rainfall intensities over
02194>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
02195>        21.30    15.20    10.40     6.53     3.30     1.65     1.11      .91      .73    mm/hr
02196>        21.30    30.40    31.20    39.20    39.60    39.60    39.80    43.70    52.40    mm
02197>      19770717 19770717 19770717 19770901 19770902 19770902 19770901 19771003 19770718  date
02198>       Number of rainfall events per following interevent time
02199>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
02200>          126      103       89       74       58       49       42       32       22
02201>       Number of events with at least the following durations
02202>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
02203>          125       67       46       16        3        1        0        0        0
02204> R1977:C00003-------------------------------------------------------------------------------------
02205>       COMPUTE API
02206>       [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
02207>       [APImax= 74.80: APIavg= 25.39: APImin=  3.60]
02208> R1977:C00004-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02209>      CONTINUOUS NASHYD      5.0 01:NORTH-1       34.70     .040 1977.0902_ 2:40  191.02 .359     .000
02210>       [CN= 38.1: N= 3.00: Tp= 4.12]
02211>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
02212>       [InterEventTime=  12.00]
02213> R1977:C00005-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02214>      CONTINUOUS NASHYD      5.0 01:NORTH-2       12.44     .060 1977.0901_23:55  192.35 .362     .000
02215>       [CN= 53.0: N= 3.00: Tp= 1.29]
02216>       [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
02217>       [InterEventTime=  12.00]
02218> R1977:C00006-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02219>      CONTINUOUS NASHYD      5.0 01:HWY-1         2.36     .031 1977.0901_23:50  198.66 .373     .000
02220>       [CN= 81.7: N= 3.00: Tp= 1.21]
02221>       [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
02222>       [InterEventTime=  12.00]
02223> R1977:C00007-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02224>      ADD HYD                5.0 02:NORTH-1       34.70     .040 1977.0902_ 2:40  191.02  n/a     .000
02225>                       +     5.0 02:NORTH-2       12.44     .060 1977.0901_23:55  192.35  n/a     .000
02226>                       +     5.0 02:HWY-1          2.36     .031 1977.0901_23:50  198.66  n/a     .000
02227>                     SUM=    5.0 01:J1            49.51     .113 1977.0902_ 0:05  191.72  n/a     .000
02228> R1977:C00008-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02229>      ROUTE CHANNEL   ->     5.0 02:J1            49.51     .113 1977.0902_ 0:05  191.72  n/a     .000
02230>  *   [RDT= 5.00] out<-      5.0 01:R1            49.51     .110 1977.0902_ 0:20  191.72  n/a     .000
02231>       [L/S/n=  478./ .440/.035]
02232>       [Vmax=  .407:Dmax=  .175)
02233> R1977:C00009-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02234>      CONTINUOUS NASHYD      5.0 01:INT-1         4.39     .022 1977.0902_ 0:15  193.27 .363     .000
02235>       [CN= 60.4: N= 3.00: Tp= 1.66]
02236>       [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
02237>       [InterEventTime=  12.00]
02238> R1977:C00010-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02239>      CONTINUOUS NASHYD      5.0 01:INT-2         3.61     .018 1977.0901_23:40  191.76 .360     .000
02240>       [CN= 47.4: N= 3.00: Tp=  .95]
02241>       [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
02242>       [InterEventTime=  12.00]
02243> R1977:C00011-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02244>      CONTINUOUS NASHYD      5.0 01:A3A           3.84     .020 1977.0902_ 0:05  193.00 .363     .000
02245>       [CN= 58.4: N= 3.00: Tp= 1.46]
02246>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
02247>       [InterEventTime=  12.00]
02248> R1977:C00012-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02249>      CONTINUOUS NASHYD      5.0 01:A3B           5.29     .018 1977.0901_23:55  191.33 .360     .000
02250>       [CN= 42.6: N= 3.00: Tp= 1.26]
02251>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
02252>       [InterEventTime=  12.00]
02253> R1977:C00013-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02254>      CONTINUOUS NASHYD      5.0 01:A3C           1.21     .004 1977.0901_23:35  190.92 .359     .000
02255>       [CN= 37.8: N= 3.00: Tp=  .87]
02256>       [IaREC= 6.00: SMIN=179.29: SMAX=******: SK= .030]
02257>       [InterEventTime=  12.00]
02258> R1977:C00014-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02259>      ROUTE CHANNEL   ->     5.0 02:A3C           1.21     .004 1977.0902_ 0:00  190.92  n/a     .000
02260>  *   [RDT= 5.00] out<-      5.0 01:A3C-R         1.21     .002 1977.0902_ 0:15  190.92  n/a     .000
02261>       [L/S/n=  500./ .140/.035]
02262>       [Vmax=  .096:Dmax=  .048)
02263> R1977:C00015-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02264>      CONTINUOUS NASHYD      5.0 01:INT-3         5.71     .044 1977.0901_23:35  193.00 .363     .000
02265>       [CN= 58.5: N= 3.00: Tp=  .89]
02266>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
02267>       [InterEventTime=  12.00]
02268> R1977:C00016-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02269>      ADD HYD                5.0 02:R1            49.51     .110 1977.0902_ 0:20  191.72  n/a     .000
02270>                       +     5.0 02:INT-1          4.39     .022 1977.0902_ 0:15  193.27  n/a     .000
02271>                       +     5.0 02:INT-2          3.61     .018 1977.0901_23:40  191.76  n/a     .000
02272>                       +     5.0 02:INT-3          5.71     .044 1977.0901_23:35  193.00  n/a     .000
02273>                       +     5.0 02:A3A            3.84     .020 1977.0902_ 0:05  193.00  n/a     .000
02274>                       +     5.0 02:A3B            5.29     .018 1977.0901_23:55  191.33  n/a     .000
02275>                       +     5.0 02:A3C-R          1.21     .002 1977.0902_ 0:15  190.92  n/a     .000
02276>                     SUM=    5.0 01:J2            73.56     .222 1977.0902_ 0:00  191.94  n/a     .000
02277> R1977:C00017-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02278>      ROUTE CHANNEL   ->     5.0 02:J2            73.56     .222 1977.0902_ 0:00  191.94  n/a     .000
02279>  *   [RDT= 5.00] out<-      5.0 01:R2            73.56     .219 1977.0902_ 0:10  191.94  n/a     .000
02280>       [L/S/n=  359./ .560/.035]
02281>       [Vmax=  .473:Dmax=  .144)
02282> R1977:C00018-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02283>      CONTINUOUS NASHYD      5.0 01:A1A           21.43     .045 1977.0902_ 0:20  190.82 .359     .000
02284>       [CN= 36.1: N= 3.00: Tp= 1.68]
02285>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
02286>       [InterEventTime=  12.00]
02287> R1977:C00019-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02288>      CONTINUOUS NASHYD      5.0 01:A1B           4.70     .013 1977.0902_ 0:20  191.43 .360     .000
02289>       [CN= 44.6: N= 3.00: Tp= 1.72]
02290>       [IaREC= 6.00: SMIN=134.47: SMAX=896.47: SK= .030]
02291>       [InterEventTime=  12.00]
02292> R1977:C00020-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02293>      CONTINUOUS NASHYD      5.0 01:A2            9.14     .081 1977.0901_23:50  194.49 .366     .000
02294>       [CN= 68.4: N= 3.00: Tp= 1.12]
02295>       [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
02296>       [InterEventTime=  12.00]
02297> R1977:C00021-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02298>      ADD HYD                5.0 02:R2            73.56     .219 1977.0902_ 0:10  191.94  n/a     .000
02299>                       +     5.0 02:A1A           21.43     .045 1977.0902_ 0:20  190.82  n/a     .000
02300>                       +     5.0 02:A1B            4.70     .013 1977.0902_ 0:20  191.43  n/a     .000
02301>                       +     5.0 02:A2             9.14     .081 1977.0901_23:50  194.49  n/a     .000
02302>                     SUM=    5.0 01:J3           108.84     .353 1977.0902_ 0:05  191.91  n/a     .000
02303> R1977:C00022-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02304>      ROUTE CHANNEL   ->     5.0 02:J3           108.84     .353 1977.0902_ 0:05  191.91  n/a     .000
02305>  *   [RDT= 5.00] out<-      5.0 01:R3           108.84     .340 1977.0902_ 0:20  191.91  n/a     .000
02306>       [L/S/n=  396./ .305/.035]
02307>       [Vmax=  .402:Dmax=  .292)
02308> R1977:C00023-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02309>      CONTINUOUS NASHYD      5.0 01:SOUTH-1       20.21     .047 1977.0902_ 0:05  190.72 .358     .000
02310>       [CN= 35.5: N= 3.00: Tp= 1.40]
02311>       [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
02312>       [InterEventTime=  12.00]
02313> R1977:C00024-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02314>      ADD HYD                5.0 02:R3           108.84     .340 1977.0902_ 0:20  191.91  n/a     .000
02315>                       +     5.0 02:SOUTH-1       20.21     .047 1977.0902_ 0:05  190.72  n/a     .000
02316>                     SUM=    5.0 01:J4           129.05     .385 1977.0902_ 0:20  191.72  n/a     .000
02317> R1977:C00025-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02318>      ROUTE CHANNEL   ->     5.0 02:J4           129.05     .385 1977.0902_ 0:20  191.72  n/a     .000
02319>  *   [RDT= 5.00] out<-      5.0 01:R4           129.05     .375 1977.0902_ 0:35  191.73  n/a     .000
02320>       [L/S/n=  482./ .410/.035]
02321>       [Vmax=  .528:Dmax=  .278)
02322> R1977:C00026-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02323>      CONTINUOUS NASHYD      5.0 01:SOUTH-2       11.61     .038 1977.0901_23:40  190.82 .359     .000
02324>       [CN= 36.7: N= 3.00: Tp=  .96]
02325>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
02326>       [InterEventTime=  12.00]
02327> R1977:C00027-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02328>      ADD HYD                5.0 02:R4           129.05     .375 1977.0902_ 0:35  191.73  n/a     .000
02329>                       +     5.0 02:SOUTH-2       11.61     .038 1977.0901_23:40  190.82  n/a     .000
02330>                     SUM=    5.0 01:J5           140.66     .400 1977.0902_ 0:30  191.65  n/a     .000
02331> R1977:C00028-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02332>      ROUTE CHANNEL   ->     5.0 02:J5           140.66     .400 1977.0902_ 0:30  191.65  n/a     .000
02333>  *   [RDT= 5.00] out<-      5.0 01:R5           140.66     .398 1977.0902_ 0:35  191.65  n/a     .000
02334>       [L/S/n=  181./ .500/.035]
02335>       [Vmax=  .502:Dmax=  .255)
02336> R1977:C00029-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02337>      CONTINUOUS NASHYD      5.0 01:SOUTH-3        7.98     .035 1977.0901_23:35  191.33 .360     .000
02338>       [CN= 42.6: N= 3.00: Tp=  .89]
02339>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
02340>       [InterEventTime=  12.00]
02341> R1977:C00030-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02342>      ADD HYD                5.0 02:R5           140.66     .398 1977.0902_ 0:35  191.65  n/a     .000
02343>                       +     5.0 02:SOUTH-3        7.98     .035 1977.0901_23:35  191.33  n/a     .000
02344>                     SUM=    5.0 01:J6           148.64     .418 1977.0902_ 0:30  191.63  n/a     .000
02345> R1977:C00031-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02346>      SAVE HYD               5.0 01:J6           148.64     .418 1977.0902_ 0:30  191.63  n/a     .000
02347>       fname :J6.1977
02348>       remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
02349> R1977:C00032-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02350>      ROUTE CHANNEL   ->     5.0 02:J6           148.64     .418 1977.0902_ 0:30  191.63  n/a     .000
02351>  *   [RDT= 5.00] out<-      5.0 01:R6           148.64     .414 1977.0902_ 0:40  191.63  n/a     .000
02352>       [L/S/n=  323./ .440/.035]
02353>       [Vmax=  .552:Dmax=  .283)
02354> R1977:C00033-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02355>      CONTINUOUS NASHYD      5.0 01:SOUTH-4       14.99     .045 1977.0901_23:55  191.02 .359     .000
02356>       [CN= 39.5: N= 3.00: Tp= 1.23]
02357>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
02358>       [InterEventTime=  12.00]
02359> R1977:C00034-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02360>      ADD HYD                5.0 02:R6           148.64     .414 1977.0902_ 0:40  191.63  n/a     .000
02361>                       +     5.0 02:SOUTH-4       14.99     .045 1977.0901_23:55  191.02  n/a     .000
02362>                     SUM=    5.0 01:Total        163.63     .450 1977.0902_ 0:35  191.58  n/a     .000
02363> #*************************************************************************
02364> #*************************************************************************
02365> #########################################################################
02366> # CONTINUOUS RAINFALL DATA
02367> #########################################################################
02368> #*************************************************************************
02369> # STORMS
02370> #*************************************************************************
02371>   ** END OF RUN : 1977
02372>
02373> ************************************************************************************************
02374>
02375>
02376>
02377>
02378>
02379>  RUN#:COMMAND#
02380> R1978:C00001-------------------------------------------------------------------------------------
02381>      START
02382>       [TZERO =     .00 hrs on 19780401]
02383>       [METOUT=   2     (1=imperial, 2=metric output)]
02384>       [NSTORM=   0 ]
02385>       [NRUN  = 1978 ]
02386> #*************************************************************************
02387> #  SWMHYMO  / INPUT DATA FILE
02388> #*************************************************************************
02389> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
02390> #  Date        : 04-28-2021
02391> #  Modeller    : [J.B]
02392> #  Company     : JFSAinc.
02393> #  License #   : 2549237
02394> #*************************************************************************
02395> #*************************************************************************
02396> #*************************************************************************
02397> # Ottawa International Airport - April 1st to October 31st
02398> R1978:C00002-------------------------------------------------------------------------------------
02399>   *  READ AES DATA
02400>       [Filename  = YOW_1967_2007.123                                    ]
02401>       [Start_date= 1978.0401: End_date= 1978.1031]
02402>       [DT= 60.min: Length= 5136.hrs: WetHrs=  340: DryHrs= 4796: PTOT= 511.10)
02403>       Maximum average rainfall intensities over
02404>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
02405>        36.00    18.15    12.10     6.05     3.04     1.64     1.13      .87      .58    mm/hr
02406>        36.00    36.30    36.30    36.30    36.50    39.40    40.60    41.60    41.60    mm
02407>      19780618 19780618 19780618 19780618 19780619 19780411 19780620 19780621  date
02408>       Number of rainfall events per following interevent time
02409>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
02410>          143      118      109       89       62       50       43       38       25
02411>       Number of events with at least the following durations
02412>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
02413>          142       67       37       13        3        0        0        0        0
02414> R1978:C00003-------------------------------------------------------------------------------------
02415>       COMPUTE API
02416>       [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
02417>       [APImax= 65.37: APIavg= 24.30: APImin=  7.66]
02418> R1978:C00004-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02419>      CONTINUOUS NASHYD      5.0 01:NORTH-1       34.70     .046 1978.0618_20:55  166.47 .326     .000
02420>       [CN= 38.1: N= 3.00: Tp= 4.12]
02421>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
02422>       [InterEventTime=  12.00]
02423> R1978:C00005-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02424>      CONTINUOUS NASHYD      5.0 01:NORTH-2       12.44     .075 1978.0618_18:05  166.71 .326     .000
02425>       [CN= 53.0: N= 3.00: Tp= 1.29]
02426>       [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
02427>       [InterEventTime=  12.00]
02428> R1978:C00006-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02429>      CONTINUOUS NASHYD      5.0 01:HWY-1         2.36     .037 1978.0618_18:00  168.26 .329     .000
02430>       [CN= 81.7: N= 3.00: Tp= 1.21]
02431>       [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
02432>       [InterEventTime=  12.00]
02433> R1978:C00007-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02434>      ADD HYD                5.0 02:NORTH-1       34.70     .046 1978.0618_20:55  166.47  n/a     .000
02435>                       +     5.0 02:NORTH-2       12.44     .075 1978.0618_18:05  166.71  n/a     .000
02436>                       +     5.0 02:HWY-1          2.36     .037 1978.0618_18:00  168.26  n/a     .000
02437>                     SUM=    5.0 01:J1            49.51     .136 1978.0618_18:10  166.61  n/a     .000
02438> R1978:C00008-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02439>      ROUTE CHANNEL   ->     5.0 02:J1            49.51     .136 1978.0618_18:10  166.61  n/a     .000
02440>  *   [RDT= 5.00] out<-      5.0 01:R1            49.51     .132 1978.0618_18:30  166.61  n/a     .000
02441>       [L/S/n=  478./ .440/.035]
02442>       [Vmax=  .429:Dmax=  .189)
02443> R1978:C00009-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02444>      CONTINUOUS NASHYD      5.0 01:INT-1         4.39     .027 1978.0618_18:30  166.88 .327     .000
02445>       [CN= 60.4: N= 3.00: Tp= 1.66]
02446>       [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
02447>       [InterEventTime=  12.00]
02448> R1978:C00010-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02449>      CONTINUOUS NASHYD      5.0 01:INT-2         3.61     .024 1978.0618_17:45  166.60 .326     .000
02450>       [CN= 47.4: N= 3.00: Tp=  .95]
02451>       [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
02452>       [InterEventTime=  12.00]
02453> R1978:C00011-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02454>      CONTINUOUS NASHYD      5.0 01:A3A           3.84     .025 1978.0618_18:15  166.83 .326     .000
02455>       [CN= 58.4: N= 3.00: Tp= 1.46]
02456>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
02457>       [InterEventTime=  12.00]
02458> R1978:C00012-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02459>      CONTINUOUS NASHYD      5.0 01:A3B           5.29     .023 1978.0618_18:05  166.52 .326     .000
02460>       [CN= 42.6: N= 3.00: Tp= 1.26]
02461>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
02462>       [InterEventTime=  12.00]
02463> R1978:C00013-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02464>      CONTINUOUS NASHYD      5.0 01:A3C           1.21     .006 1978.0618_17:40  166.45 .326     .000
02465>       [CN= 37.8: N= 3.00: Tp=  .87]
02466>       [IaREC= 6.00: SMIN=179.29: SMAX=******: SK= .030]
02467>       [InterEventTime=  12.00]
02468> R1978:C00014-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02469>      ROUTE CHANNEL   ->     5.0 02:A3C           1.21     .006 1978.0618_17:40  166.45  n/a     .000
02470>      [RDT= 5.00] out<-      5.0 01:A3C-R         1.21     .003 1978.0618_18:25  166.45  n/a     .000
02471>       [L/S/n=  500./ .140/.035]
02472>       [Vmax=  .102:Dmax=  .053)
02473> R1978:C00015-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02474>      CONTINUOUS NASHYD      5.0 01:INT-3         5.71     .057 1978.0618_17:40  166.83 .326     .000
02475>       [CN= 58.5: N= 3.00: Tp=  .89]
02476>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
02477>       [InterEventTime=  12.00]
02478> R1978:C00016-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02479>      ADD HYD                5.0 02:R1            49.51     .132 1978.0618_18:30  166.61  n/a     .000
02480>                       +     5.0 02:INT-1          4.39     .027 1978.0618_18:30  166.88  n/a     .000
02481>                       +     5.0 02:INT-2          3.61     .024 1978.0618_17:45  166.60  n/a     .000
02482>                       +     5.0 02:INT-3          5.71     .057 1978.0618_17:40  166.83  n/a     .000
02483>                       +     5.0 02:A3A            3.84     .025 1978.0618_18:15  166.83  n/a     .000
02484>                       +     5.0 02:A3B            5.29     .023 1978.0618_18:05  166.52  n/a     .000
02485>                       +     5.0 02:A3C-R          1.21     .003 1978.0618_18:25  166.45  n/a     .000
02486>                     SUM=    5.0 01:J2            73.56     .271 1978.0618_18:10  166.65  n/a     .000
02487> R1978:C00017-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02488>      ROUTE CHANNEL   ->     5.0 02:J2            73.56     .271 1978.0618_18:10  166.65  n/a     .000
02489>      [RDT= 5.00] out<-      5.0 01:R2            73.56     .267 1978.0618_18:20  166.65  n/a     .000
02490>       [L/S/n=  359./ .560/.035]
02491>       [Vmax=  .510:Dmax=  .159)
02492> R1978:C00018-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02493>      CONTINUOUS NASHYD      5.0 01:A1A           21.43     .056 1978.0618_18:30  166.43 .326     .000
02494>       [CN= 36.1: N= 3.00: Tp= 1.68]
02495>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
02496>       [InterEventTime=  12.00]
02497> R1978:C00019-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02498>      CONTINUOUS NASHYD      5.0 01:A1B           4.70     .016 1978.0618_18:30  166.54 .326     .000
02499>       [CN= 44.6: N= 3.00: Tp= 1.72]
02500>       [IaREC= 6.00: SMIN=134.47: SMAX=896.47: SK= .030]
02501>       [InterEventTime=  12.00]
02502> R1978:C00020-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02503>      CONTINUOUS NASHYD      5.0 01:A2            9.14     .102 1978.0618_17:55  167.18 .327     .000
02504>       [CN= 68.4: N= 3.00: Tp= 1.12]
02505>       [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
02506>       [InterEventTime=  12.00]
02507> R1978:C00021-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02508>      ADD HYD                5.0 02:R2            73.56     .267 1978.0618_18:20  166.65  n/a     .000
02509>                       +     5.0 02:A1A           21.43     .056 1978.0618_18:30  166.43  n/a     .000
02510>                       +     5.0 02:A1B            4.70     .016 1978.0618_18:30  166.54  n/a     .000
02511>                       +     5.0 02:A2             9.14     .102 1978.0618_17:55  167.18  n/a     .000
02512>                     SUM=    5.0 01:J3           108.84     .432 1978.0618_18:15  166.64  n/a     .000
02513> R1978:C00022-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02514>      ROUTE CHANNEL   ->     5.0 02:J3           108.84     .432 1978.0618_18:15  166.64  n/a     .000
02515>      [RDT= 5.00] out<-      5.0 01:R3           108.84     .417 1978.0618_18:30  166.64  n/a     .000
02516>       [L/S/n=  396./ .305/.035]
02517>       [Vmax=  .415:Dmax=  .313)
02518> R1978:C00023-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02519>      CONTINUOUS NASHYD      5.0 01:SOUTH-1       20.21     .058 1978.0618_18:15  166.42 .326     .000
02520>       [CN= 35.5: N= 3.00: Tp= 1.40]
```

```
02521>       [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
02522>       [InterEventTime=  12.00]
02523> R1978:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02524>     ADD HYD            5.0 02:R3      108.84     .417 1978.0618_18:30  166.64  n/a     .000
02525>                  +     5.0 02:SOUTH-1  20.21     .058 1978.0618_18:15  166.42  n/a     .000
02526>                SUM=    5.0 01:J4      129.05     .473 1978.0618_18:30  166.61  n/a     .000
02527> R1978:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02528>     ROUTE CHANNEL   ->    5.0 02:J4      129.05     .473 1978.0618_18:30  166.61  n/a     .000
02529>      [RDT= 5.00] out<-    5.0 01:R4      129.05     .461 1978.0618_18:40  166.61  n/a     .000
02530>       [L/S/n=  482./ .410/.035]
02531>       [Vmax=  .550:Dmax=  .303]
02532> R1978:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02533>     CONTINUOUS NASHYD    5.0 01:SOUTH-2  11.61     .049 1978.0618_17:45  166.43 .326     .000
02534>       [CN= 36.7: N= 3.00: Tp=  .96]
02535>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
02536>       [InterEventTime=  12.00]
02537> R1978:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02538>     ADD HYD            5.0 02:R4      129.05     .461 1978.0618_18:40  166.61  n/a     .000
02539>                  +     5.0 02:SOUTH-2  11.61     .049 1978.0618_17:45  166.43  n/a     .000
02540>                SUM=    5.0 01:J5      140.66     .491 1978.0618_18:40  166.59  n/a     .000
02541> R1978:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02542>     ROUTE CHANNEL   ->    5.0 02:J5      140.66     .491 1978.0618_18:40  166.59  n/a     .000
02543>      [RDT= 5.00] out<-    5.0 01:R5      140.66     .490 1978.0618_18:45  166.59  n/a     .000
02544>       [L/S/n=  181./ .500/.035]
02545>       [Vmax=  .521:Dmax=  .272]
02546> R1978:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02547>     CONTINUOUS NASHYD    5.0 01:SOUTH-3   7.98     .047 1978.0618_17:45  166.52 .326     .000
02548>       [CN= 42.6: N= 3.00: Tp=  .89]
02549>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
02550>       [InterEventTime=  12.00]
02551> R1978:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02552>     ADD HYD            5.0 02:R5      140.66     .490 1978.0618_18:45  166.59  n/a     .000
02553>                  +     5.0 02:SOUTH-3   7.98     .047 1978.0618_17:45  166.52  n/a     .000
02554>                SUM=    5.0 01:J6      148.64     .514 1978.0618_18:40  166.59  n/a     .000
02555> R1978:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02556>     SAVE HYD           5.0 01:J6      148.64     .514 1978.0618_18:40  166.59  n/a     .000
02557>       fname :J6.1978
02558>       remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
02559> R1978:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02560>     ROUTE CHANNEL   ->    5.0 02:J6      148.64     .514 1978.0618_18:40  166.59  n/a     .000
02561>      [RDT= 5.00] out<-    5.0 01:R6      148.64     .509 1978.0618_18:50  166.59  n/a     .000
02562>       [L/S/n=  323./ .440/.035]
02563>       [Vmax=  .576:Dmax=  .309]
02564> R1978:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02565>     CONTINUOUS NASHYD    5.0 01:SOUTH-4  14.99     .057 1978.0618_18:05  166.47 .326     .000
02566>       [CN= 39.5: N= 3.00: Tp= 1.23]
02567>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
02568>       [InterEventTime=  12.00]
02569> R1978:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02570>     ADD HYD            5.0 02:R6      148.64     .509 1978.0618_18:50  166.59  n/a     .000
02571>                  +     5.0 02:SOUTH-4  14.99     .057 1978.0618_18:05  166.47  n/a     .000
02572>                SUM=    5.0 01:Total   163.63     .555 1978.0618_18:45  166.58  n/a     .000
02573> #===============================================================
02574> #===============================================================
02575> ################################################################################
02576> # CONTINUOUS RAINFALL DATA
02577> ################################################################################
02578> #*******************************************************************************
02579> # STORMS
02580> #*******************************************************************************
02581>  ** END OF RUN : 1978
02582>
02583> *******************************************************************************************************
02584>
02585>
02586>
02587>
02588>
02589>  RUN#:COMMAND#
02590> R1979:C00001------------------------------------------------------------------------------------------
02591>      START
02592>       [TZERO =    .00 hrs on 19790401]
02593>       [METOUT=   2   (1=imperial, 2=metric output)]
02594>       [NSTORM=   0 ]
02595>       [NRUN  = 1979 ]
02596> #*******************************************************************************
02597> #  SWMHYMO  / INPUT DATA FILE
02598> #*******************************************************************************
02599> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
02600> #  Date        : 04-28-2021
02601> #  Modeller    : [J.B]
02602> #  Company     : JFSAinc.
02603> #  License #   : 2549237
02604> #*******************************************************************************
02605> #*******************************************************************************
02606> #*******************************************************************************
02607> # Ottawa International Airport - April 1st to October 31st
02608> R1979:C00002------------------------------------------------------------------------------------------
02609>      READ AES DATA
02610>       [Filename  = YOW_1967_2007.123                                  ]
02611>       [Start_date= 1979.0401: End_date= 1979.1031]
02612>       [DT= 60.min: Length= 5136.hrs: WetHrs=  358: DryHrs= 4778: PTOT= 670.00)
02613>       Maximum average rainfall intensities over
02614>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
02615>        34.90    22.00    14.67     7.33     5.14     2.63     1.75     1.31      .88    mm/hr
02616>        34.90    44.00    44.00    44.00    61.70    63.00    63.00    63.00    63.00    mm
02617>      19790616 19790616 19790616 19790616 19790616 19790914 19790915 19790915 19790917  date
02618>       Number of rainfall events per following interevent time
02619>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
02620>          137      110       97       77       63       46       39       32       25
02621>       Number of events with at least the following durations
02622>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
02623>          136       68       40       16        3        0        0        0        0
02624> R1979:C00003------------------------------------------------------------------------------------------
02625>      COMPUTE API
02626>       [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
02627>       [APImax= 78.42: APIavg= 31.28: APImin=  6.94]
02628> R1979:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02629>     CONTINUOUS NASHYD    5.0 01:NORTH-1  34.70     .108 1979.0914_16:55  325.40 .486     .000
02630>       [CN= 38.1: N= 3.00: Tp= 4.12]
02631>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
02632>       [InterEventTime=  12.00]
02633> R1979:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02634>     CONTINUOUS NASHYD    5.0 01:NORTH-2  12.44     .109 1979.0616_15:05  326.42 .487     .000
02635>       [CN= 53.0: N= 3.00: Tp= 1.29]
02636>       [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
02637>       [InterEventTime=  12.00]
02638> R1979:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02639>     CONTINUOUS NASHYD    5.0 01:HWY-1     2.36     .051 1979.0616_14:55  330.13 .493     .000
02640>       [CN= 81.7: N= 3.00: Tp= 1.21]
02641>       [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
02642>       [InterEventTime=  12.00]
02643> R1979:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02644>     ADD HYD            5.0 02:NORTH-1  34.70     .108 1979.0914_16:55  325.40  n/a     .000
02645>                  +     5.0 02:NORTH-2  12.44     .109 1979.0616_15:05  326.42  n/a     .000
02646>                  +     5.0 02:HWY-1     2.36     .051 1979.0616_14:55  330.13  n/a     .000
02647>                SUM=    5.0 01:J1      49.51     .196 1979.0914_15:45  325.88  n/a     .000
02648> R1979:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02649>     ROUTE CHANNEL   ->    5.0 02:J1      49.51     .196 1979.0914_15:45  325.88  n/a     .000
02650>      [RDT= 5.00] out<-    5.0 01:R1      49.51     .195 1979.0914_16:00  325.88  n/a     .000
02651>       [L/S/n=  478./ .440/.035]
02652>       [Vmax=  .474:Dmax=  .220]
02653> R1979:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02654>     CONTINUOUS NASHYD    5.0 01:INT-1     4.39     .038 1979.0616_15:25  327.10 .488     .000
02655>       [CN= 60.4: N= 3.00: Tp= 1.66]
02656>       [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
02657>       [InterEventTime=  12.00]
02658> R1979:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02659>     CONTINUOUS NASHYD    5.0 01:INT-2     3.61     .034 1979.0616_14:45  325.98 .487     .000
02660>       [CN= 47.4: N= 3.00: Tp=  .95]
02661>       [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
02662>       [InterEventTime=  12.00]
02663> R1979:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02664>     CONTINUOUS NASHYD    5.0 01:A3A       3.84     .035 1979.0616_15:15  326.90 .488     .000
02665>       [CN= 58.4: N= 3.00: Tp= 1.46]
02666>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
02667>       [InterEventTime=  12.00]
02668> R1979:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02669>     CONTINUOUS NASHYD    5.0 01:A3B       5.29     .033 1979.0616_15:00  325.64 .486     .000
02670>       [CN= 42.6: N= 3.00: Tp= 1.26]
02671>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
02672>       [InterEventTime=  12.00]
02673> R1979:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02674>     CONTINUOUS NASHYD    5.0 01:A3C       1.21     .009 1979.0616_14:40  325.32 .486     .000
02675>       [CN= 37.8: N= 3.00: Tp=  .87]
02676>       [IaREC= 6.00: SMIN=179.29: SMAX=******: SK= .030]
02677>       [InterEventTime=  12.00]
02678> R1979:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02679>     ROUTE CHANNEL   ->    5.0 02:A3C       1.21     .009 1979.0616_14:40  325.32  n/a     .000
02680>      [RDT= 5.00] out<-    5.0 01:A3C-R     1.21     .005 1979.0616_15:20  325.32  n/a     .000
02681>       [L/S/n=  500./ .140/.035]
02682>       [Vmax=  .116:Dmax=  .061]
02683> R1979:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02684>     CONTINUOUS NASHYD    5.0 01:INT-3     5.71     .082 1979.0616_14:40  326.90 .488     .000
02685>       [CN= 58.5: N= 3.00: Tp=  .89]
02686>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
02687>       [InterEventTime=  12.00]
02688> R1979:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02689>     ADD HYD            5.0 02:R1      49.51     .195 1979.0914_16:00  325.88  n/a     .000
02690>                  +     5.0 02:INT-1     4.39     .038 1979.0616_15:25  327.10  n/a     .000
02691>                  +     5.0 02:INT-2     3.61     .034 1979.0616_14:45  325.98  n/a     .000
02692>                  +     5.0 02:INT-3     5.71     .082 1979.0616_14:40  326.90  n/a     .000
02693>                  +     5.0 02:A3A       3.84     .035 1979.0616_15:15  326.90  n/a     .000
02694>                  +     5.0 02:A3B       5.29     .033 1979.0616_15:00  325.64  n/a     .000
02695>                  +     5.0 02:A3C-R     1.21     .005 1979.0616_15:20  325.32  n/a     .000
02696>                SUM=    5.0 01:J2      73.56     .390 1979.0616_15:05  326.06  n/a     .000
02697> R1979:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02698>     ROUTE CHANNEL   ->    5.0 02:J2      73.56     .390 1979.0616_15:05  326.06  n/a     .000
02699>      [RDT= 5.00] out<-    5.0 01:R2      73.56     .387 1979.0616_15:15  326.06  n/a     .000
02700>       [L/S/n=  359./ .560/.035]
02701>       [Vmax=  .581:Dmax=  .191]
02702> R1979:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02703>     CONTINUOUS NASHYD    5.0 01:A1A      21.43     .081 1979.0616_15:25  325.24 .485     .000
02704>       [CN= 36.1: N= 3.00: Tp= 1.68]
02705>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
02706>       [InterEventTime=  12.00]
02707> R1979:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02708>     CONTINUOUS NASHYD    5.0 01:A1B       4.70     .023 1979.0616_15:30  325.72 .486     .000
02709>       [CN= 44.6: N= 3.00: Tp= 1.72]
02710>       [IaREC= 6.00: SMIN=134.47: SMAX=896.47: SK= .030]
02711>       [InterEventTime=  12.00]
02712> R1979:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02713>     CONTINUOUS NASHYD    5.0 01:A2        9.14     .143 1979.0616_14:55  327.96 .489     .000
02714>       [CN= 68.4: N= 3.00: Tp= 1.12]
02715>       [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
02716>       [InterEventTime=  12.00]
02717> R1979:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02718>     ADD HYD            5.0 02:R2      73.56     .387 1979.0616_15:15  326.06  n/a     .000
02719>                  +     5.0 02:A1A      21.43     .081 1979.0616_15:25  325.24  n/a     .000
02720>                  +     5.0 02:A1B       4.70     .023 1979.0616_15:30  325.72  n/a     .000
02721>                  +     5.0 02:A2        9.14     .143 1979.0616_14:55  327.96  n/a     .000
02722>                SUM=    5.0 01:J3      108.84     .624 1979.0616_15:10  326.05  n/a     .000
02723> R1979:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02724>     ROUTE CHANNEL   ->    5.0 02:J3      108.84     .624 1979.0616_15:10  326.05  n/a     .000
02725>      [RDT= 5.00] out<-    5.0 01:R3      108.84     .604 1979.0616_15:25  326.05  n/a     .000
02726>       [L/S/n=  396./ .305/.035]
02727>       [Vmax=  .444:Dmax=  .356]
02728> R1979:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02729>     CONTINUOUS NASHYD    5.0 01:SOUTH-1  20.21     .085 1979.0616_15:10  325.16 .485     .000
02730>       [CN= 35.5: N= 3.00: Tp= 1.40]
02731>       [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
02732>       [InterEventTime=  12.00]
02733> R1979:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02734>     ADD HYD            5.0 02:R3      108.84     .604 1979.0616_15:25  326.05  n/a     .000
02735>                  +     5.0 02:SOUTH-1  20.21     .085 1979.0616_15:10  325.16  n/a     .000
02736>                SUM=    5.0 01:J4      129.05     .686 1979.0616_15:25  325.91  n/a     .000
02737> R1979:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02738>     ROUTE CHANNEL   ->    5.0 02:J4      129.05     .686 1979.0616_15:25  325.91  n/a     .000
02739>      [RDT= 5.00] out<-    5.0 01:R4      129.05     .671 1979.0616_15:35  325.91  n/a     .000
02740>       [L/S/n=  482./ .410/.035]
02741>       [Vmax=  .593:Dmax=  .351]
02742> R1979:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02743>     CONTINUOUS NASHYD    5.0 01:SOUTH-2  11.61     .072 1979.0616_14:45  325.24 .485     .000
02744>       [CN= 36.7: N= 3.00: Tp=  .96]
02745>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
02746>       [InterEventTime=  12.00]
02747> R1979:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02748>     ADD HYD            5.0 02:R4      129.05     .671 1979.0616_15:35  325.91  n/a     .000
02749>                  +     5.0 02:SOUTH-2  11.61     .072 1979.0616_14:45  325.24  n/a     .000
02750>                SUM=    5.0 01:J5      140.66     .717 1979.0616_15:30  325.85  n/a     .000
02751> R1979:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02752>     ROUTE CHANNEL   ->    5.0 02:J5      140.66     .717 1979.0616_15:30  325.85  n/a     .000
02753>      [RDT= 5.00] out<-    5.0 01:R5      140.66     .716 1979.0616_15:35  325.85  n/a     .000
02754>       [L/S/n=  181./ .500/.035]
02755>       [Vmax=  .572:Dmax=  .313]
02756> R1979:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02757>     CONTINUOUS NASHYD    5.0 01:SOUTH-3   7.98     .068 1979.0616_14:40  325.64 .486     .000
02758>       [CN= 42.6: N= 3.00: Tp=  .89]
02759>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
02760>       [InterEventTime=  12.00]
02761> R1979:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02762>     ADD HYD            5.0 02:R5      140.66     .716 1979.0616_15:35  325.85  n/a     .000
02763>                  +     5.0 02:SOUTH-3   7.98     .068 1979.0616_14:40  325.64  n/a     .000
02764>                SUM=    5.0 01:J6      148.64     .753 1979.0616_15:30  325.84  n/a     .000
02765> R1979:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02766>     SAVE HYD           5.0 01:J6      148.64     .753 1979.0616_15:30  325.84  n/a     .000
02767>       fname :J6.1979
02768>       remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
02769> R1979:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02770>     ROUTE CHANNEL   ->    5.0 02:J6      148.64     .753 1979.0616_15:30  325.84  n/a     .000
02771>      [RDT= 5.00] out<-    5.0 01:R6      148.64     .747 1979.0616_15:40  325.84  n/a     .000
02772>       [L/S/n=  323./ .440/.035]
02773>       [Vmax=  .621:Dmax=  .359]
02774> R1979:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02775>     CONTINUOUS NASHYD    5.0 01:SOUTH-4  14.99     .083 1979.0616_15:00  325.40 .486     .000
02776>       [CN= 39.5: N= 3.00: Tp= 1.23]
02777>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
02778>       [InterEventTime=  12.00]
02779> R1979:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02780>     ADD HYD            5.0 02:R6      148.64     .747 1979.0616_15:40  325.84  n/a     .000
02781>                  +     5.0 02:SOUTH-4  14.99     .083 1979.0616_15:00  325.40  n/a     .000
02782>                SUM=    5.0 01:Total   163.63     .815 1979.0616_15:35  325.80  n/a     .000
02783> #===============================================================
02784> #===============================================================
02785> ################################################################################
02786> # CONTINUOUS RAINFALL DATA
02787> ################################################################################
02788> #*******************************************************************************
02789> # STORMS
02790> #*******************************************************************************
02791>  ** END OF RUN : 1979
02792>
02793> *******************************************************************************************************
02794>
02795>
02796>
02797>
02798>
02799>  RUN#:COMMAND#
02800> R1980:C00001------------------------------------------------------------------------------------------
02801>      START
02802>       [TZERO =    .00 hrs on 19800401]
02803>       [METOUT=   2   (1=imperial, 2=metric output)]
02804>       [NSTORM=   0 ]
02805>       [NRUN  = 1980 ]
02806> #*******************************************************************************
02807> #  SWMHYMO  / INPUT DATA FILE
02808> #*******************************************************************************
02809> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
02810> #  Date        : 04-28-2021
02811> #  Modeller    : [J.B]
02812> #  Company     : JFSAinc.
02813> #  License #   : 2549237
02814> #*******************************************************************************
02815> #*******************************************************************************
02816> #*******************************************************************************
02817> # Ottawa International Airport - April 1st to October 31st
02818> R1980:C00002------------------------------------------------------------------------------------------
02819>  *  READ AES DATA
02820>       [Filename  = YOW_1967_2007.123                                  ]
02821>       [Start_date= 1980.0401: End_date= 1980.1031]
02822>       [DT= 60.min: Length= 5136.hrs: WetHrs=  365: DryHrs= 4771: PTOT= 541.00)
02823>       Maximum average rainfall intensities over
02824>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
02825>        15.00     9.20     6.50     4.72     3.57     1.97     1.35     1.01      .86    mm/hr
02826>        15.00    18.40    19.50    28.30    42.80    47.20    48.60    48.60    62.00    mm
02827>      19800830 19800830 19801025 19801025 19801026 19801026 19801026 19801027 19800902  date
02828>       Number of rainfall events per following interevent time
02829>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
02830>          134      112       98       82       69       55       43       38       23
02831>       Number of events with at least the following durations
02832>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
02833>          133       77       48       12        3        0        0        0        0
02834> R1980:C00003------------------------------------------------------------------------------------------
02835>      COMPUTE API
02836>       [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
02837>       [APImax= 68.72: APIavg= 24.91: APImin=  3.26]
02838> R1980:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02839>     CONTINUOUS NASHYD    5.0 01:NORTH-1  34.70     .043 1980.1026_ 3:05  162.22 .300     .000
02840>       [CN= 38.1: N= 3.00: Tp= 4.12]
02841>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
02842>       [InterEventTime=  12.00]
02843> R1980:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02844>     CONTINUOUS NASHYD    5.0 01:NORTH-2  12.44     .038 1980.1026_ 0:35  164.97 .305     .000
02845>       [CN= 53.0: N= 3.00: Tp= 1.29]
02846>       [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
02847>       [InterEventTime=  12.00]
02848> R1980:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02849>     CONTINUOUS NASHYD    5.0 01:HWY-1     2.36     .017 1980.0901_21:20  175.78 .325     .000
02850>       [CN= 81.7: N= 3.00: Tp= 1.21]
02851>       [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
02852>       [InterEventTime=  12.00]
02853> R1980:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02854>     ADD HYD            5.0 02:NORTH-1  34.70     .043 1980.1026_ 3:05  162.22  n/a     .000
02855>                  +     5.0 02:NORTH-2  12.44     .038 1980.1026_ 0:35  164.97  n/a     .000
02856>                  +     5.0 02:HWY-1     2.36     .017 1980.0901_21:20  175.78  n/a     .000
02857>                SUM=    5.0 01:J1      49.51     .090 1980.1026_ 0:45  163.56  n/a     .000
02858> R1980:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02859>     ROUTE CHANNEL   ->    5.0 02:J1      49.51     .090 1980.1026_ 0:45  163.56  n/a     .000
02860> *    [RDT= 5.00] out<-    5.0 01:R1      49.51     .088 1980.1026_ 1:00  163.56  n/a     .000
02861>       [L/S/n=  478./ .440/.035]
02862>       [Vmax=  .380:Dmax=  .158]
02863> R1980:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02864>     CONTINUOUS NASHYD    5.0 01:INT-1     4.39     .015 1980.1026_ 0:50  166.85 .308     .000
02865>       [CN= 60.4: N= 3.00: Tp= 1.66]
02866>       [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
02867>       [InterEventTime=  12.00]
02868> R1980:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02869>     CONTINUOUS NASHYD    5.0 01:INT-2     3.61     .010 1980.1026_ 0:25  163.76 .303     .000
02870>       [CN= 47.4: N= 3.00: Tp=  .95]
02871>       [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
02872>       [InterEventTime=  12.00]
02873> R1980:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02874>     CONTINUOUS NASHYD    5.0 01:A3A       3.84     .013 1980.1026_ 0:45  166.29 .307     .000
02875>       [CN= 58.4: N= 3.00: Tp= 1.46]
02876>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
02877>       [InterEventTime=  12.00]
02878> R1980:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02879>     CONTINUOUS NASHYD    5.0 01:A3B       5.29     .012 1980.1026_ 0:35  162.86 .301     .000
02880>       [CN= 42.6: N= 3.00: Tp= 1.26]
```

```
02881>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
02882>       [InterEventTime=  12.00]
02883> R1980:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02884>     CONTINUOUS NASHYD      5.0 01:A3C              1.21      .003 1980.1026_ 0:20  162.01 .299     .000
02885>       [CN= 37.8: N= 3.00: Tp=  .87]
02886>       [IaREC= 6.00: SMIN=179.29: SMAX=*****: SK= .030]
02887>       [InterEventTime=  12.00]
02888> R1980:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02889>     ROUTE CHANNEL   ->    5.0 02:A3C              1.21      .003 1980.1026_ 0:20  162.01  n/a     .000
02890> *   [RDT= 5.00] out<-     5.0 01:A3C-R            1.21      .002 1980.1026_ 0:55  162.01  n/a     .000
02891>       [L/S/n=  500./ .140./.035]
02892>       [Vmax=  .071:Dmax=  .036)
02893> R1980:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02894>     CONTINUOUS NASHYD      5.0 01:INT-3            5.71      .024 1980.0901_21:05  166.29 .307     .000
02895>       [CN= 58.5: N= 3.00: Tp=  .89]
02896>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
02897>       [InterEventTime=  12.00]
02898> R1980:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02899>     ADD HYD                5.0 02:R1              49.51      .088 1980.1026_ 1:00  163.56  n/a     .000
02900>                      +     5.0 02:INT-1            4.39      .015 1980.1026_ 0:50  166.85  n/a     .000
02901>                      +     5.0 02:INT-2            3.61      .010 1980.1026_ 0:25  163.76  n/a     .000
02902>                      +     5.0 02:INT-3            5.71      .024 1980.0901_21:05  166.29  n/a     .000
02903>                      +     5.0 02:A3A              3.84      .013 1980.1026_ 0:45  166.29  n/a     .000
02904>                      +     5.0 02:A3B              5.29      .012 1980.1026_ 0:35  162.86  n/a     .000
02905>                      +     5.0 02:A3C-R            1.21      .002 1980.1026_ 0:55  162.01  n/a     .000
02906>                    SUM=    5.0 01:J2              73.56      .160 1980.1026_ 0:40  164.04  n/a     .000
02907> R1980:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02908>     ROUTE CHANNEL   ->    5.0 02:J2              73.56      .160 1980.1026_ 0:40  164.04  n/a     .000
02909> *   [RDT= 5.00] out<-     5.0 01:R2              73.56      .159 1980.1026_ 0:50  164.04  n/a     .000
02910>       [L/S/n=  359./ .560/.035]
02911>       [Vmax=  .420:Dmax=  .123)
02912> R1980:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02913>     CONTINUOUS NASHYD      5.0 01:A1A             21.43      .034 1980.1026_ 0:55  161.80 .299     .000
02914>       [CN= 36.1: N= 3.00: Tp= 1.68]
02915>       [IaREC= 6.00: SMIN=191.09: SMAX=*****: SK= .030]
02916>       [InterEventTime=  12.00]
02917> R1980:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02918>     CONTINUOUS NASHYD      5.0 01:A1B              4.70      .010 1980.1026_ 0:55  163.08 .301     .000
02919>       [CN= 44.6: N= 3.00: Tp= 1.72]
02920>       [IaREC= 6.00: SMIN=134.47: SMAX=896.47: SK= .030]
02921>       [InterEventTime=  12.00]
02922> R1980:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02923>     CONTINUOUS NASHYD      5.0 01:A2               9.14      .046 1980.1026_ 0:30  169.30 .313     .000
02924>       [CN= 68.4: N= 3.00: Tp= 1.12]
02925>       [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
02926>       [InterEventTime=  12.00]
02927> R1980:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02928>     ADD HYD                5.0 02:R2              73.56      .159 1980.1026_ 0:50  164.04  n/a     .000
02929>                      +     5.0 02:A1A             21.43      .034 1980.1026_ 0:55  161.80  n/a     .000
02930>                      +     5.0 02:A1B              4.70      .010 1980.1026_ 0:55  163.08  n/a     .000
02931>                      +     5.0 02:A2               9.14      .046 1980.1026_ 0:30  169.30  n/a     .000
02932>                    SUM=    5.0 01:J3             108.84      .246 1980.1026_ 0:45  164.00  n/a     .000
02933> R1980:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02934>     ROUTE CHANNEL   ->    5.0 02:J3             108.84      .246 1980.1026_ 0:45  164.00  n/a     .000
02935> *   [RDT= 5.00] out<-     5.0 01:R3             108.84      .242 1980.1026_ 1:00  164.00  n/a     .000
02936>       [L/S/n=  396./ .305/.035]
02937>       [Vmax=  .387:Dmax=  .251)
02938> R1980:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02939>     CONTINUOUS NASHYD      5.0 01:SOUTH-1         20.21      .033 1980.1026_ 0:45  161.60 .299     .000
02940>       [CN= 35.5: N= 3.00: Tp= 1.40]
02941>       [IaREC= 6.00: SMIN=204.20: SMAX=*****: SK= .030]
02942>       [InterEventTime=  12.00]
02943> R1980:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02944>     ADD HYD                5.0 02:R3             108.84      .242 1980.1026_ 1:00  164.00  n/a     .000
02945>                      +     5.0 02:SOUTH-1         20.21      .033 1980.1026_ 0:45  161.60  n/a     .000
02946>                    SUM=    5.0 01:J4             129.05      .274 1980.1026_ 1:00  163.63  n/a     .000
02947> R1980:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02948>     ROUTE CHANNEL   ->    5.0 02:J4             129.05      .274 1980.1026_ 1:00  163.63  n/a     .000
02949> *   [RDT= 5.00] out<-     5.0 01:R4             129.05      .272 1980.1026_ 1:10  163.63  n/a     .000
02950>       [L/S/n=  482./ .410/.035]
02951>       [Vmax=  .497:Dmax=  .244)
02952> R1980:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02953>     CONTINUOUS NASHYD      5.0 01:SOUTH-2         11.61      .022 1980.1026_ 0:25  161.80 .299     .000
02954>       [CN= 36.7: N= 3.00: Tp=  .96]
02955>       [IaREC= 6.00: SMIN=191.09: SMAX=*****: SK= .030]
02956>       [InterEventTime=  12.00]
02957> R1980:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02958>     ADD HYD                5.0 02:R4             129.05      .272 1980.1026_ 1:10  163.63  n/a     .000
02959>                      +     5.0 02:SOUTH-2         11.61      .022 1980.1026_ 0:25  161.80  n/a     .000
02960>                    SUM=    5.0 01:J5             140.66      .291 1980.1026_ 1:05  163.47  n/a     .000
02961> R1980:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02962>     ROUTE CHANNEL   ->    5.0 02:J5             140.66      .291 1980.1026_ 1:05  163.47  n/a     .000
02963> *   [RDT= 5.00] out<-     5.0 01:R5             140.66      .290 1980.1026_ 1:10  163.47  n/a     .000
02964>       [L/S/n=  181./ .500/.035]
02965>       [Vmax=  .482:Dmax=  .236)
02966> R1980:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02967>     CONTINUOUS NASHYD      5.0 01:SOUTH-3          7.98      .020 1980.1026_ 0:25  162.86 .301     .000
02968>       [CN= 42.6: N= 3.00: Tp=  .89]
02969>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
02970>       [InterEventTime=  12.00]
02971> R1980:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02972>     ADD HYD                5.0 02:R5             140.66      .290 1980.1026_ 1:10  163.47  n/a     .000
02973>                      +     5.0 02:SOUTH-3          7.98      .020 1980.1026_ 0:25  162.86  n/a     .000
02974>                    SUM=    5.0 01:J6             148.64      .305 1980.1026_ 1:05  163.44  n/a     .000
02975> R1980:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02976>     SAVE HYD               5.0 01:J6             148.64      .305 1980.1026_ 1:05  163.44  n/a     .000
02977>       fname :J6.1980
02978>       remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
02979> R1980:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02980>     ROUTE CHANNEL   ->    5.0 02:J6             148.64      .305 1980.1026_ 1:05  163.44  n/a     .000
02981>     [RDT= 5.00] out<-     5.0 01:R6             148.64      .304 1980.1026_ 1:15  163.44  n/a     .000
02982>       [L/S/n=  323./ .440/.035]
02983>       [Vmax=  .526:Dmax=  .252)
02984> R1980:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02985>     CONTINUOUS NASHYD      5.0 01:SOUTH-4         14.99      .029 1980.1026_ 0:35  162.22 .300     .000
02986>       [CN= 39.5: N= 3.00: Tp= 1.23]
02987>       [IaREC= 6.00: SMIN=168.62: SMAX=*****: SK= .030]
02988>       [InterEventTime=  12.00]
02989> R1980:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02990>     ADD HYD                5.0 02:R6             148.64      .304 1980.1026_ 1:15  163.44  n/a     .000
02991>                      +     5.0 02:SOUTH-4         14.99      .029 1980.1026_ 0:35  162.22  n/a     .000
02992>                    SUM=    5.0 01:Total          163.63      .331 1980.1026_ 1:10  163.33  n/a     .000
02993> #============================================================================
02994> #============================================================================
02995> ##############################################################################
02996> # CONTINUOUS RAINFALL DATA
02997> ##############################################################################
02998> #*****************************************************************************
02999> # STORMS
03000> #*****************************************************************************
03001>   ** END OF RUN : 1980
03002>
03003> ******************************************************************************************************************************
03004>
03005>
03006>
03007>
03008>
03009>  RUN#:COMMAND#
03010> R1981:C00001------------------------------------------------------------------------------------------------------------
03011>     START
03012>       [TZERO =    .00 hrs on 19810401]
03013>       [METOUT=  2   (1=imperial, 2=metric output)]
03014>       [NSTORM=  0 ]
03015>       [NRUN  = 1981 ]
03016> #******************************************************************************
03017> #  SWMHYMO  / INPUT DATA FILE
03018> #******************************************************************************
03019> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
03020> #  Date       : 04-28-2021
03021> #  Modeller   : [J.B]
03022> #  Company    : JFSAinc.
03023> #  License #  : 2549237
03024> #*****************************************************************************
03025> #*****************************************************************************
03026> #*****************************************************************************
03027> # Ottawa International Airport - April 1st to October 31st
03028> R1981:C00002------------------------------------------------------------------------------------------------------------
03029>  *  READ AES DATA
03030>       [Filename  = YOW_1967_2007.123                                    ]
03031>       [Start_date= 1981.0401: End_date= 1981.1031]
03032>       [DT= 60.min: Length= 5136.hrs: WetHrs=  488: DryHrs= 4648: PTOT= 817.80)
03033>       Maximum average rainfall intensities over
03034>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
03035>        35.30    31.85    26.20    18.15    9.27     4.83     3.22     2.41     1.62    mm/hr
03036>        35.30    63.70    78.60   108.90   111.30   115.90   115.90   115.90   116.70   mm
03037>      19810805 19810805 19810805 19810805 19810805 19810805 19810806 19810806 19810805  date
03038>       Number of rainfall events per following interevent time
03039>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
03040>          183       68      139      112       90       68       54       46       37       22
03041>       Number of events with at least the following durations
03042>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
03043>          182      101       63       19        5        0        0        0        0
03044> R1981:C00003------------------------------------------------------------------------------------------------------------
03045>     COMPUTE APY
03046>       [APIinit= 50.00: APIkdy= .9000: APIkdt= .9956]
03047>       [APImax=123.49: APIavg= 37.01: APImin=  7.43)
03048> R1981:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03049>     CONTINUOUS NASHYD      5.0 01:NORTH-1         34.70      .462 1981.0805_ 6:50  376.10 .460     .000
03050>       [CN= 38.1: N= 3.00: Tp= 4.12]
03051>       [IaREC= 6.00: SMIN=168.62: SMAX=*****: SK= .030]
03052>       [InterEventTime=  12.00]
03053> R1981:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03054>     CONTINUOUS NASHYD      5.0 01:NORTH-2         12.44      .452 1981.0805_ 3:25  378.35 .463     .000
03055>       [CN= 53.0: N= 3.00: Tp= 1.29]
03056>       [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
03057>       [InterEventTime=  12.00]
03058> R1981:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03059>     CONTINUOUS NASHYD      5.0 01:HWY-1            2.36      .143 1981.0805_ 2:55  386.88 .473     .000
03060>       [CN= 81.7: N= 3.00: Tp= 1.21]
03061>       [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
03062>       [InterEventTime=  12.00]
03063> R1981:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03064>     ADD HYD                5.0 02:NORTH-1         34.70      .462 1981.0805_ 6:50  376.10  n/a     .000
03065>                      +     5.0 02:NORTH-2         12.44      .452 1981.0805_ 3:25  378.35  n/a     .000
03066>                      +     5.0 02:HWY-1            2.36      .143 1981.0805_ 2:55  386.88  n/a     .000
03067>                    SUM=    5.0 01:J1              49.51      .829 1981.0805_ 4:30  377.18  n/a     .000
03068> R1981:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03069>     ROUTE CHANNEL   ->    5.0 02:J1              49.51      .829 1981.0805_ 4:30  377.18  n/a     .000
03070> *   [RDT= 5.00] out<-     5.0 01:R1              49.51      .826 1981.0805_ 4:45  377.18  n/a     .000
03071>       [L/S/n=  478./ .440/.035]
03072>       [Vmax=  .615:Dmax=  .400)
03073> R1981:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03074>     CONTINUOUS NASHYD      5.0 01:INT-1            4.39      .163 1981.0805_ 3:55  379.86 .465     .000
03075>       [CN= 60.4: N= 3.00: Tp= 1.66]
03076>       [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
03077>       [InterEventTime=  12.00]
03078> R1981:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03079>     CONTINUOUS NASHYD      5.0 01:INT-2            3.61      .133 1981.0805_ 2:45  377.37 .461     .000
03080>       [CN= 47.4: N= 3.00: Tp=  .95]
03081>       [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
03082>       [InterEventTime=  12.00]
03083> R1981:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03084>     CONTINUOUS NASHYD      5.0 01:A3A              3.84      .146 1981.0805_ 3:35  379.42 .464     .000
03085>       [CN= 58.4: N= 3.00: Tp= 1.46]
03086>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
03087>       [InterEventTime=  12.00]
03088> R1981:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03089>     CONTINUOUS NASHYD      5.0 01:A3B              5.29      .151 1981.0805_ 3:30  376.63 .461     .000
03090>       [CN= 42.6: N= 3.00: Tp= 1.26]
03091>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
03092>       [InterEventTime=  12.00]
03093> R1981:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03094>     CONTINUOUS NASHYD      5.0 01:A3C              1.21      .035 1981.0805_ 2:45  375.93 .460     .000
03095>       [CN= 37.8: N= 3.00: Tp=  .87]
03096>       [IaREC= 6.00: SMIN=179.29: SMAX=*****: SK= .030]
03097>       [InterEventTime=  12.00]
03098> R1981:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03099>     ROUTE CHANNEL   ->    5.0 02:A3C              1.21      .035 1981.0805_ 2:45  375.93  n/a     .000
03100> *   [RDT= 5.00] out<-     5.0 01:A3C-R            1.21      .030 1981.0805_ 3:30  375.93  n/a     .000
03101>       [L/S/n=  500./ .140./.035]
03102>       [Vmax=  .198:Dmax=  .112)
03103> R1981:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03104>     CONTINUOUS NASHYD      5.0 01:INT-3            5.71      .281 1981.0805_ 2:40  379.41 .464     .000
03105>       [CN= 58.5: N= 3.00: Tp=  .89]
03106>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
03107>       [InterEventTime=  12.00]
03108> R1981:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03109>     ADD HYD                5.0 02:R1              49.51      .826 1981.0805_ 4:45  377.18  n/a     .000
03110>                      +     5.0 02:INT-1            4.39      .163 1981.0805_ 3:55  379.86  n/a     .000
03111>                      +     5.0 02:INT-2            3.61      .133 1981.0805_ 2:45  377.37  n/a     .000
03112>                      +     5.0 02:INT-3            5.71      .281 1981.0805_ 2:40  379.42  n/a     .000
03113>                      +     5.0 02:A3A              3.84      .146 1981.0805_ 3:35  379.41  n/a     .000
03114>                      +     5.0 02:A3B              5.29      .151 1981.0805_ 3:30  376.63  n/a     .000
03115>                      +     5.0 02:A3C-R            1.21      .030 1981.0805_ 3:30  375.93  n/a     .000
03116>                    SUM=    5.0 01:J2              73.56     1.616 1981.0805_ 3:35  377.58  n/a     .000
03117> R1981:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03118>     ROUTE CHANNEL   ->    5.0 02:J2              73.56     1.616 1981.0805_ 3:35  377.58  n/a     .000
03119> *   [RDT= 5.00] out<-     5.0 01:R2              73.56     1.614 1981.0805_ 3:40  377.58  n/a     .000
03120>       [L/S/n=  359./ .560/.035]
03121>       [Vmax=  .905:Dmax=  .393)
03122> R1981:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03123>     CONTINUOUS NASHYD      5.0 01:A1A             21.43      .451 1981.0805_ 4:25  375.76 .459     .000
03124>       [CN= 36.1: N= 3.00: Tp= 1.68]
03125>       [IaREC= 6.00: SMIN=191.09: SMAX=*****: SK= .030]
03126>       [InterEventTime=  12.00]
03127> R1981:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03128>     CONTINUOUS NASHYD      5.0 01:A1B              4.70      .121 1981.0805_ 4:25  376.81 .461     .000
03129>       [CN= 44.6: N= 3.00: Tp= 1.72]
03130>       [IaREC= 6.00: SMIN=134.47: SMAX=896.47: SK= .030]
03131>       [InterEventTime=  12.00]
03132> R1981:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03133>     CONTINUOUS NASHYD      5.0 01:A2               9.14      .472 1981.0805_ 2:55  381.84 .467     .000
03134>       [CN= 68.4: N= 3.00: Tp= 1.12]
03135>       [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
03136>       [InterEventTime=  12.00]
03137> R1981:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03138>     ADD HYD                5.0 02:R2              73.56     1.614 1981.0805_ 3:40  377.58  n/a     .000
03139>                      +     5.0 02:A1A             21.43      .451 1981.0805_ 4:25  375.76  n/a     .000
03140>                      +     5.0 02:A1B              4.70      .121 1981.0805_ 4:25  376.81  n/a     .000
03141>                      +     5.0 02:A2               9.14      .472 1981.0805_ 2:55  381.84  n/a     .000
03142>                    SUM=    5.0 01:J3             108.84     2.587 1981.0805_ 3:40  377.55  n/a     .000
03143> R1981:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03144>     ROUTE CHANNEL   ->    5.0 02:J3             108.84     2.587 1981.0805_ 3:40  377.55  n/a     .000
03145> *   [RDT= 5.00] out<-     5.0 01:R3             108.84     2.579 1981.0805_ 3:50  377.55  n/a     .000
03146>       [L/S/n=  396./ .305/.035]
03147>       [Vmax=  .634:Dmax=  .543)
03148> R1981:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03149>     CONTINUOUS NASHYD      5.0 01:SOUTH-1         20.21      .434 1981.0805_ 3:45  375.59 .459     .000
03150>       [CN= 35.5: N= 3.00: Tp= 1.40]
03151>       [IaREC= 6.00: SMIN=204.20: SMAX=*****: SK= .030]
03152>       [InterEventTime=  12.00]
03153> R1981:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03154>     ADD HYD                5.0 02:R3             108.84     2.579 1981.0805_ 3:50  377.55  n/a     .000
03155>                      +     5.0 02:SOUTH-1         20.21      .434 1981.0805_ 3:45  375.59  n/a     .000
03156>                    SUM=    5.0 01:J4             129.05     3.012 1981.0805_ 3:50  377.24  n/a     .000
03157> R1981:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03158>     ROUTE CHANNEL   ->    5.0 02:J4             129.05     3.012 1981.0805_ 3:50  377.24  n/a     .000
03159> *   [RDT= 5.00] out<-     5.0 01:R4             129.05     3.002 1981.0805_ 4:00  377.24  n/a     .000
03160>       [L/S/n=  482./ .410/.035]
03161>       [Vmax=  .775:Dmax=  .618)
03162> R1981:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03163>     CONTINUOUS NASHYD      5.0 01:SOUTH-2         11.61      .306 1981.0805_ 2:50  375.76 .459     .000
03164>       [CN= 36.7: N= 3.00: Tp=  .96]
03165>       [IaREC= 6.00: SMIN=191.09: SMAX=*****: SK= .030]
03166>       [InterEventTime=  12.00]
03167> R1981:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03168>     ADD HYD                5.0 02:R4             129.05     3.002 1981.0805_ 4:00  377.24  n/a     .000
03169>                      +     5.0 02:SOUTH-2         11.61      .306 1981.0805_ 2:50  375.76  n/a     .000
03170>                    SUM=    5.0 01:J5             140.66     3.268 1981.0805_ 3:55  377.12  n/a     .000
03171> R1981:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03172>     ROUTE CHANNEL   ->    5.0 02:J5             140.66     3.268 1981.0805_ 3:55  377.12  n/a     .000
03173> *   [RDT= 5.00] out<-     5.0 01:R5             140.66     3.267 1981.0805_ 3:55  377.12  n/a     .000
03174>       [L/S/n=  181./ .500/.035]
03175>       [Vmax=  .723:Dmax=  .527)
03176> R1981:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03177>     CONTINUOUS NASHYD      5.0 01:SOUTH-3          7.98      .269 1981.0805_ 2:45  376.63 .461     .000
03178>       [CN= 42.6: N= 3.00: Tp=  .89]
03179>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
03180>       [InterEventTime=  12.00]
03181> R1981:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03182>     ADD HYD                5.0 02:R5             140.66     3.267 1981.0805_ 3:55  377.12  n/a     .000
03183>                      +     5.0 02:SOUTH-3          7.98      .269 1981.0805_ 2:45  376.63  n/a     .000
03184>                    SUM=    5.0 01:J6             148.64     3.482 1981.0805_ 3:55  377.09  n/a     .000
03185> R1981:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03186>     SAVE HYD               5.0 01:J6             148.64     3.482 1981.0805_ 3:55  377.09  n/a     .000
03187>       fname :J6.1981
03188>       remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
03189> R1981:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03190>     ROUTE CHANNEL   ->    5.0 02:J6             148.64     3.482 1981.0805_ 3:55  377.09  n/a     .000
03191> *   [RDT= 5.00] out<-     5.0 01:R6             148.64     3.479 1981.0805_ 4:00  377.09  n/a     .000
03192>       [L/S/n=  323./ .440/.035]
03193>       [Vmax=  .819:Dmax=  .645)
03194> R1981:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03195>     CONTINUOUS NASHYD      5.0 01:SOUTH-4         14.99      .386 1981.0805_ 3:30  376.10 .460     .000
03196>       [CN= 39.5: N= 3.00: Tp= 1.23]
03197>       [IaREC= 6.00: SMIN=168.62: SMAX=*****: SK= .030]
03198>       [InterEventTime=  12.00]
03199> R1981:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03200>     ADD HYD                5.0 02:R6             148.64     3.479 1981.0805_ 4:00  377.09  n/a     .000
03201>                      +     5.0 02:SOUTH-4         14.99      .386 1981.0805_ 3:30  376.10  n/a     .000
03202>                    SUM=    5.0 01:Total          163.63     3.852 1981.0805_ 3:55  377.00  n/a     .000
03203> #============================================================================
03204> #============================================================================
03205> ##############################################################################
03206> # CONTINUOUS RAINFALL DATA
03207> ##############################################################################
03208> #*****************************************************************************
03209> # STORMS
03210> #*****************************************************************************
03211>   ** END OF RUN : 1981
03212>
03213> ******************************************************************************************************************************
03214>
03215>
03216>
03217>
03218>
03219>  RUN#:COMMAND#
03220> R1982:C00001------------------------------------------------------------------------------------------------------------
03221>     START
03222>       [TZERO =    .00 hrs on 19820401]
03223>       [METOUT=  2   (1=imperial, 2=metric output)]
03224>       [NSTORM=  0 ]
03225>       [NRUN  = 1982 ]
03226> #******************************************************************************
03227> #  SWMHYMO  / INPUT DATA FILE
03228> #******************************************************************************
03229> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
03230> #  Date       : 04-28-2021
03231> #  Modeller   : [J.B]
03232> #  Company    : JFSAinc.
03233> #  License #  : 2549237
03234> #*****************************************************************************
03235> #*****************************************************************************
03236> #*****************************************************************************
03237> # Ottawa International Airport - April 1st to October 31st
03238> R1982:C00002------------------------------------------------------------------------------------------------------------
03239>  *  READ AES DATA
03240>       [Filename  = YOW_1967_2007.123                                    ]
```

```
03241>       [Start_date= 1982.0401: End_date= 1982.1031]
03242>       (DT= 60.min: Length= 5136.hrs: WetHrs=  311: DryHrs= 4825: PTOT= 461.10)
03243>       Maximum average rainfall intensities over
03244>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
03245>        19.80    10.75     7.60     5.83     3.36     1.68     1.12      .96      .80    mm/hr
03246>        19.80    21.50    22.80    35.00    40.30    40.30    40.30    46.30    57.30    mm
03247>       19820801 19820901 19820901 19820825 19820825 19820825 19820826 19820826 19820825 19820825  date
03248>       Number of rainfall events per following interevent time
03249>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
03250>          105       52       47       77       60       52       47       38       35       27
03251>       Number of events with at least the following durations
03252>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
03253>          105       63       42       14        3        0        0        0        0        0
03254> R1982:C00003-------------------------------------------------------------------------------
03255>       COMPUTE API
03256>       [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
03257>       [APImax= 56.66: APIavg= 22.47= APImin=  4.83]
03258> R1982:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03259>       CONTINUOUS NASHYD      5.0 01:NORTH-1       34.70     .046 1982.0825_15:55  151.22 .328     .000
03260>         [CN= 38.1: N= 3.00: Tp= 4.12]
03261>         [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
03262>         [InterEventTime=  12.00]
03263> R1982:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03264>       CONTINUOUS NASHYD      5.0 01:NORTH-2       12.44     .045 1982.0825_12:35  151.56 .329     .000
03265>         [CN= 53.0: N= 3.00: Tp= 1.29]
03266>         [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
03267>         [InterEventTime=  12.00]
03268> R1982:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03269>       CONTINUOUS NASHYD      5.0 01:HWY-1          2.36     .022 1982.0825_12:15  153.21 .332     .000
03270>         [CN= 81.7: N= 3.00: Tp= 1.21]
03271>         [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
03272>         [InterEventTime=  12.00]
03273> R1982:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03274>       ADD HYD                5.0 02:NORTH-1       34.70     .046 1982.0825_15:55  151.22  n/a     .000
03275>                        +     5.0 02:NORTH-2       12.44     .045 1982.0825_12:35  151.56  n/a     .000
03276>                        +     5.0 02:HWY-1          2.36     .022 1982.0825_12:15  153.21  n/a     .000
03277>                    SUM=      5.0 01:J1            49.51     .095 1982.0825_13:20  151.40  n/a     .000
03278> R1982:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03279>       ROUTE CHANNEL    ->     5.0 02:J1            49.51     .095 1982.0825_13:20  151.40  n/a     .000
03280>         [RDT= 5.00] out<-     5.0 01:R1            49.51     .094 1982.0825_13:35  151.40  n/a     .000
03281>         [L/S/n=  478./ .440/.035]
03282>         [Vmax=  .385:Dmax=  .162]
03283> R1982:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03284>       CONTINUOUS NASHYD      5.0 01:INT-1          4.39     .018 1982.0825_13:10  151.81 .329     .000
03285>         [CN= 60.4: N= 3.00: Tp= 1.66]
03286>         [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
03287>         [InterEventTime=  12.00]
03288> R1982:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03289>       CONTINUOUS NASHYD      5.0 01:INT-2          3.61     .012 1982.0825_11:50  151.41 .328     .000
03290>         [CN= 47.4: N= 3.00: Tp=  .95]
03291>         [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
03292>         [InterEventTime=  12.00]
03293> R1982:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03294>       CONTINUOUS NASHYD      5.0 01:A3A            3.84     .016 1982.0825_12:45  151.73 .329     .000
03295>         [CN= 58.4: N= 3.00: Tp= 1.46]
03296>         [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
03297>         [InterEventTime=  12.00]
03298> R1982:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03299>       CONTINUOUS NASHYD      5.0 01:A3B            5.29     .014 1982.0825_12:35  151.30 .328     .000
03300>         [CN= 42.6: N= 3.00: Tp= 1.26]
03301>         [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
03302>         [InterEventTime=  12.00]
03303> R1982:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03304>       CONTINUOUS NASHYD      5.0 01:A3C            1.21     .003 1982.0825_11:45  151.20 .328     .000
03305>         [CN= 37.8: N= 3.00: Tp=  .87]
03306>         [IaREC= 6.00: SMIN=179.29: SMAX=******: SK= .030]
03307>         [InterEventTime=  12.00]
03308> R1982:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03309>       ROUTE CHANNEL    ->     5.0 02:A3C            1.21     .003 1982.0825_11:45  151.20  n/a     .000
03310>         [RDT= 5.00] out<-     5.0 01:A3C-R          1.21     .002 1982.0825_13:35  151.19  n/a     .000
03311>         [L/S/n=  500./ .140/.035]
03312>         [Vmax=  .075:Dmax=  .038]
03313> R1982:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03314>       CONTINUOUS NASHYD      5.0 01:INT-3          5.71     .028 1982.0825_11:45  151.73 .329     .000
03315>         [CN= 58.5: N= 3.00: Tp=  .89]
03316>         [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
03317>         [InterEventTime=  12.00]
03318> R1982:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03319>       ADD HYD                5.0 02:R1            49.51     .094 1982.0825_13:35  151.40  n/a     .000
03320>                        +     5.0 02:INT-1          4.39     .018 1982.0825_13:10  151.81  n/a     .000
03321>                        +     5.0 02:INT-2          3.61     .012 1982.0825_11:50  151.41  n/a     .000
03322>                        +     5.0 02:INT-3          5.71     .028 1982.0825_11:45  151.73  n/a     .000
03323>                        +     5.0 02:A3A            3.84     .016 1982.0825_12:45  151.73  n/a     .000
03324>                        +     5.0 02:A3B            5.29     .014 1982.0825_12:35  151.30  n/a     .000
03325>                        +     5.0 02:A3C-R          1.21     .002 1982.0825_13:35  151.19  n/a     .000
03326>                    SUM=      5.0 01:J2            73.56     .176 1982.0825_12:45  151.46  n/a     .000
03327> R1982:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03328>       ROUTE CHANNEL    ->     5.0 02:J2            73.56     .176 1982.0825_12:45  151.46  n/a     .000
03329>         [RDT= 5.00] out<-     5.0 01:R2            73.56     .176 1982.0825_13:00  151.46  n/a     .000
03330>         [L/S/n=  359./ .560/.035]
03331>         [Vmax=  .433:Dmax=  .129]
03332> R1982:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03333>       CONTINUOUS NASHYD      5.0 01:A1A           21.43     .039 1982.0825_13:20  151.17 .328     .000
03334>         [CN= 36.1: N= 3.00: Tp= 1.68]
03335>         [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
03336>         [InterEventTime=  12.00]
03337> R1982:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03338>       CONTINUOUS NASHYD      5.0 01:A1B            4.70     .011 1982.0825_13:25  151.32 .328     .000
03339>         [CN= 44.6: N= 3.00: Tp= 1.72]
03340>         [IaREC= 6.00: SMIN=134.47: SMAX=896.47: SK= .030]
03341>         [InterEventTime=  12.00]
03342> R1982:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03343>       CONTINUOUS NASHYD      5.0 01:A2             9.14     .057 1982.0825_12:15  152.16 .330     .000
03344>         [CN= 68.4: N= 3.00: Tp= 1.12]
03345>         [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
03346>         [InterEventTime=  12.00]
03347> R1982:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03348>       ADD HYD                5.0 02:R2            73.56     .176 1982.0825_13:00  151.46  n/a     .000
03349>                        +     5.0 02:A1A           21.43     .039 1982.0825_13:25  151.32  n/a     .000
03350>                        +     5.0 02:A1B            4.70     .011 1982.0825_13:25  151.32  n/a     .000
03351>                        +     5.0 02:A2             9.14     .057 1982.0825_12:15  152.16  n/a     .000
03352>                    SUM=      5.0 01:J3           108.84     .278 1982.0825_12:45  151.45  n/a     .000
03353> R1982:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03354>       ROUTE CHANNEL    ->     5.0 02:J3           108.84     .278 1982.0825_12:45  151.45  n/a     .000
03355>         [RDT= 5.00] out<-     5.0 01:R3           108.84     .276 1982.0825_13:10  151.45  n/a     .000
03356>         [L/S/n=  396./ .305/.035]
03357>         [Vmax=  .391:Dmax=  .264]
03358> R1982:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03359>       CONTINUOUS NASHYD      5.0 01:SOUTH-1       20.21     .037 1982.0825_12:45  151.15 .328     .000
03360>         [CN= 35.5: N= 3.00: Tp= 1.40]
03361>         [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
03362>         [InterEventTime=  12.00]
03363> R1982:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03364>       ADD HYD                5.0 02:R3           108.84     .276 1982.0825_13:10  151.45  n/a     .000
03365>                        +     5.0 02:SOUTH-1       20.21     .037 1982.0825_12:45  151.15  n/a     .000
03366>                    SUM=      5.0 01:J4           129.05     .313 1982.0825_13:10  151.41  n/a     .000
03367> R1982:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03368>       ROUTE CHANNEL    ->     5.0 02:J4           129.05     .313 1982.0825_13:10  151.41  n/a     .000
03369>         [RDT= 5.00] out<-     5.0 01:R4           129.05     .311 1982.0825_13:25  151.41  n/a     .000
03370>         [L/S/n=  482./ .410/.035]
03371>         [Vmax=  .511:Dmax=  .257]
03372> R1982:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03373>       CONTINUOUS NASHYD      5.0 01:SOUTH-2       11.61     .025 1982.0825_12:15  151.17 .328     .000
03374>         [CN= 36.7: N= 3.00: Tp=  .96]
03375>         [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
03376>         [InterEventTime=  12.00]
03377> R1982:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03378>       ADD HYD                5.0 02:R4           129.05     .311 1982.0825_13:25  151.41  n/a     .000
03379>                        +     5.0 02:SOUTH-2       11.61     .025 1982.0825_12:15  151.17  n/a     .000
03380>                    SUM=      5.0 01:J5           140.66     .333 1982.0825_13:20  151.39  n/a     .000
03381> R1982:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03382>       ROUTE CHANNEL    ->     5.0 02:J5           140.66     .333 1982.0825_13:20  151.39  n/a     .000
03383>         [RDT= 5.00] out<-     5.0 01:R5           140.66     .333 1982.0825_13:25  151.39  n/a     .000
03384>         [L/S/n=  181./ .500/.035]
03385>         [Vmax=  .490:Dmax=  .243]
03386> R1982:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03387>       CONTINUOUS NASHYD      5.0 01:SOUTH-3        7.98     .023 1982.0825_11:45  151.30 .328     .000
03388>         [CN= 42.6: N= 3.00: Tp=  .89]
03389>         [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
03390>         [InterEventTime=  12.00]
03391> R1982:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03392>       ADD HYD                5.0 02:R5           140.66     .333 1982.0825_13:25  151.39  n/a     .000
03393>                        +     5.0 02:SOUTH-3        7.98     .023 1982.0825_11:45  151.30  n/a     .000
03394>                    SUM=      5.0 01:J6           148.64     .351 1982.0825_13:20  151.38  n/a     .000
03395> R1982:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03396>       SAVE HYD               5.0 01:J6           148.64     .351 1982.0825_13:20  151.38  n/a     .000
03397>         fname :J6.1982
03398>         remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
03399> R1982:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03400>       ROUTE CHANNEL    ->     5.0 02:J6           148.64     .351 1982.0825_13:20  151.38  n/a     .000
03401>         [RDT= 5.00] out<-     5.0 01:R6           148.64     .350 1982.0825_13:30  151.38  n/a     .000
03402>         [L/S/n=  323./ .440/.035]
03403>         [Vmax=  .536:Dmax=  .264]
03404> R1982:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03405>       CONTINUOUS NASHYD      5.0 01:SOUTH-4       14.99     .034 1982.0825_12:30  151.22 .328     .000
03406>         [CN= 39.5: N= 3.00: Tp= 1.23]
03407>         [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
03408>         [InterEventTime=  12.00]
03409> R1982:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03410>       ADD HYD                5.0 02:R6           148.64     .350 1982.0825_13:30  151.38  n/a     .000
03411>                        +     5.0 02:SOUTH-4       14.99     .034 1982.0825_12:30  151.22  n/a     .000
03412>                    SUM=      5.0 01:Total        163.63     .381 1982.0825_13:25  151.37  n/a     .000
03413> #==============================================================================
03414> #==============================================================================
03415> ###############################################################################
03416> # CONTINUOUS RAINFALL DATA
03417> ###############################################################################
03418> *******************************************************************************
03419> # STORMS
03420> *******************************************************************************
03421>  ** END OF RUN : 1982
03422>
03423> *******************************************************************************
03424>
03425>
03426>
03427>
03428>
03429> RUN#:COMMAND#
03430> R1983:C00001-------------------------------------------------------------------------------
03431>       START
03432>         [TZERO =    .00 hrs on 19830401]
03433>         [METOUT=   2      (1=imperial, 2=metric output)]
03434>         [NSTORM=   0 ]
03435>         [NRUN  = 1983 ]
03436> #*******************************************************************************
03437> #  SWMHYMO  / INPUT DATA FILE
03438> #*******************************************************************************
03439> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
03440> #  Date        : 04-28-2021
03441> #  Modeller    : [J.B]
03442> #  Company     : JFSAinc.
03443> #  License #   : 2549237
03444> #*******************************************************************************
03445> #*******************************************************************************
03446> #*******************************************************************************
03447> # Ottawa International Airport - April 1st to October 31st
03448> R1983:C00002-------------------------------------------------------------------------------
03449> *  READ AES DATA
03450>       [Filename  = YOW_1967_2007.123                                          ]
03451>       [Start_date= 1983.0401: End_date= 1983.1031]
03452>       (DT= 60.min: Length= 5136.hrs: WetHrs=  374: DryHrs= 4762: PTOT= 501.50)
03453>       Maximum average rainfall intensities over
03454>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
03455>        10.40     9.70     7.53     5.43     3.18     2.36     1.68     1.32      .92    mm/hr
03456>        10.40    19.40    22.60    32.60    38.20    56.70    60.40    63.20    66.00    mm
03457>       19831004 19830921 19830921 19831005 19831005 19831005 19831005 19831006 19831008  date
03458>       Number of rainfall events per following interevent time
03459>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
03460>          120       97       86       71       58       45       40       36       26
03461>       Number of events with at least the following durations
03462>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
03463>          119       70       45       24        3        0        0        0        0
03464> R1983:C00003-------------------------------------------------------------------------------
03465>       COMPUTE API
03466>       [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
03467>       [APImax= 79.86: APIavg= 23.50: APImin=  5.28]
03468> R1983:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03469>       CONTINUOUS NASHYD      5.0 01:NORTH-1       34.70     .080 1983.1005_21:40  148.51 .296     .000
03470>         [CN= 38.1: N= 3.00: Tp= 4.12]
03471>         [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
03472>         [InterEventTime=  12.00]
03473> R1983:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03474>       CONTINUOUS NASHYD      5.0 01:NORTH-2       12.44     .063 1983.1005_16:45  150.53 .300     .000
03475>         [CN= 53.0: N= 3.00: Tp= 1.29]
03476>         [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
03477>         [InterEventTime=  12.00]
03478> R1983:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03479>       CONTINUOUS NASHYD      5.0 01:HWY-1          2.36     .028 1983.1005_16:30  157.82 .315     .000
03480>         [CN= 81.7: N= 3.00: Tp= 1.21]
03481>         [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
03482>         [InterEventTime=  12.00]
03483> R1983:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03484>       ADD HYD                5.0 02:NORTH-1       34.70     .080 1983.1005_21:40  148.51  n/a     .000
03485>                        +     5.0 02:NORTH-2       12.44     .063 1983.1005_16:45  150.53  n/a     .000
03486>                        +     5.0 02:HWY-1          2.36     .028 1983.1005_16:30  157.82  n/a     .000
03487>                    SUM=      5.0 01:J1            49.51     .151 1983.1005_20:15  149.46  n/a     .000
03488> R1983:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03489>       ROUTE CHANNEL    ->     5.0 02:J1            49.51     .151 1983.1005_20:15  149.46  n/a     .000
03490> *   [RDT= 5.00] out<-     5.0 01:R1            49.51     .150 1983.1005_20:30  149.46  n/a     .000
03491>         [L/S/n=  478./ .440/.035]
03492>         [Vmax=  .441:Dmax=  .197]
03493> R1983:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03494>       CONTINUOUS NASHYD      5.0 01:INT-1          4.39     .025 1983.1005_17:30  151.87 .303     .000
03495>         [CN= 60.4: N= 3.00: Tp= 1.66]
03496>         [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
03497>         [InterEventTime=  12.00]
03498> R1983:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03499>       CONTINUOUS NASHYD      5.0 01:INT-2          3.61     .017 1983.1005_16:25  149.65 .298     .000
03500>         [CN= 47.4: N= 3.00: Tp=  .95]
03501>         [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
03502>         [InterEventTime=  12.00]
03503> R1983:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03504>       CONTINUOUS NASHYD      5.0 01:A3A            3.84     .022 1983.1005_17:15  151.47 .302     .000
03505>         [CN= 58.4: N= 3.00: Tp= 1.46]
03506>         [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
03507>         [InterEventTime=  12.00]
03508> R1983:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03509>       CONTINUOUS NASHYD      5.0 01:A3B            5.29     .019 1983.1005_16:45  148.99 .297     .000
03510>         [CN= 42.6: N= 3.00: Tp= 1.26]
03511>         [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
03512>         [InterEventTime=  12.00]
03513> R1983:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03514>       CONTINUOUS NASHYD      5.0 01:A3C            1.21     .004 1983.1005_16:20  148.36 .296     .000
03515>         [CN= 37.8: N= 3.00: Tp=  .87]
03516>         [IaREC= 6.00: SMIN=179.29: SMAX=******: SK= .030]
03517>         [InterEventTime=  12.00]
03518> R1983:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03519>       ROUTE CHANNEL    ->     5.0 02:A3C            1.21     .004 1983.1005_16:20  148.36  n/a     .000
03520> *   [RDT= 5.00] out<-     5.0 01:A3C-R          1.21     .003 1983.1005_19:50  148.35  n/a     .000
03521>         [L/S/n=  500./ .140/.035]
03522>         [Vmax=  .091:Dmax=  .046]
03523> R1983:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03524>       CONTINUOUS NASHYD      5.0 01:INT-3          5.71     .038 1983.1005_16:20  151.48 .302     .000
03525>         [CN= 58.5: N= 3.00: Tp=  .89]
03526>         [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
03527>         [InterEventTime=  12.00]
03528> R1983:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03529>       ADD HYD                5.0 02:R1            49.51     .150 1983.1005_20:30  149.46  n/a     .000
03530>                        +     5.0 02:INT-1          4.39     .025 1983.1005_17:30  151.87  n/a     .000
03531>                        +     5.0 02:INT-2          3.61     .017 1983.1005_16:25  149.65  n/a     .000
03532>                        +     5.0 02:INT-3          5.71     .038 1983.1005_16:20  151.48  n/a     .000
03533>                        +     5.0 02:A3A            3.84     .022 1983.1005_17:15  151.48  n/a     .000
03534>                        +     5.0 02:A3B            5.29     .019 1983.1005_16:45  148.99  n/a     .000
03535>                        +     5.0 02:A3C-R          1.21     .003 1983.1005_19:50  148.35  n/a     .000
03536>                    SUM=      5.0 01:J2            73.56     .260 1983.1005_20:10  149.83  n/a     .000
03537> R1983:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03538>       ROUTE CHANNEL    ->     5.0 02:J2            73.56     .260 1983.1005_20:10  149.83  n/a     .000
03539> *   [RDT= 5.00] out<-     5.0 01:R2            73.56     .259 1983.1005_20:15  149.83  n/a     .000
03540>         [L/S/n=  359./ .560/.035]
03541>         [Vmax=  .504:Dmax=  .156]
03542> R1983:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03543>       CONTINUOUS NASHYD      5.0 01:A1A           21.43     .059 1983.1005_20:15  148.20 .296     .000
03544>         [CN= 36.1: N= 3.00: Tp= 1.68]
03545>         [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
03546>         [InterEventTime=  12.00]
03547> R1983:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03548>       CONTINUOUS NASHYD      5.0 01:A1B            4.70     .016 1983.1005_20:10  149.15 .297     .000
03549>         [CN= 44.6: N= 3.00: Tp= 1.72]
03550>         [IaREC= 6.00: SMIN=134.47: SMAX=896.47: SK= .030]
03551>         [InterEventTime=  12.00]
03552> R1983:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03553>       CONTINUOUS NASHYD      5.0 01:A2             9.14     .076 1983.1005_16:30  153.58 .306     .000
03554>         [CN= 68.4: N= 3.00: Tp= 1.12]
03555>         [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
03556>         [InterEventTime=  12.00]
03557> R1983:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03558>       ADD HYD                5.0 02:R2            73.56     .259 1983.1005_20:15  149.83  n/a     .000
03559>                        +     5.0 02:A1A           21.43     .059 1983.1005_20:15  148.20  n/a     .000
03560>                        +     5.0 02:A1B            4.70     .016 1983.1005_20:10  149.15  n/a     .000
03561>                        +     5.0 02:A2             9.14     .076 1983.1005_16:30  153.58  n/a     .000
03562>                    SUM=      5.0 01:J3           108.84     .394 1983.1005_20:10  149.79  n/a     .000
03563> R1983:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03564>       ROUTE CHANNEL    ->     5.0 02:J3           108.84     .394 1983.1005_20:10  149.79  n/a     .000
03565> *   [RDT= 5.00] out<-     5.0 01:R3           108.84     .392 1983.1005_20:20  149.79  n/a     .000
03566>         [L/S/n=  396./ .305/.035]
03567>         [Vmax=  .408:Dmax=  .303]
03568> R1983:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03569>       CONTINUOUS NASHYD      5.0 01:SOUTH-1       20.21     .053 1983.1005_17:20  148.05 .295     .000
03570>         [CN= 35.5: N= 3.00: Tp= 1.40]
03571>         [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
03572>         [InterEventTime=  12.00]
03573> R1983:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03574>       ADD HYD                5.0 02:R3           108.84     .392 1983.1005_20:20  149.79  n/a     .000
03575>                        +     5.0 02:SOUTH-1       20.21     .053 1983.1005_17:20  148.05  n/a     .000
03576>                    SUM=      5.0 01:J4           129.05     .445 1983.1005_20:20  149.52  n/a     .000
03577> R1983:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03578>       ROUTE CHANNEL    ->     5.0 02:J4           129.05     .445 1983.1005_20:20  149.52  n/a     .000
03579> *   [RDT= 5.00] out<-     5.0 01:R4           129.05     .444 1983.1005_20:25  149.52  n/a     .000
03580>         [L/S/n=  482./ .410/.035]
03581>         [Vmax=  .543:Dmax=  .295]
03582> R1983:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03583>       CONTINUOUS NASHYD      5.0 01:SOUTH-2       11.61     .036 1983.1005_16:25  148.20 .296     .000
03584>         [CN= 36.7: N= 3.00: Tp=  .96]
03585>         [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
03586>         [InterEventTime=  12.00]
03587> R1983:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03588>       ADD HYD                5.0 02:R4           129.05     .444 1983.1005_20:25  149.52  n/a     .000
03589>                        +     5.0 02:SOUTH-2       11.61     .036 1983.1005_16:25  148.20  n/a     .000
03590>                    SUM=      5.0 01:J5           140.66     .475 1983.1005_20:25  149.41  n/a     .000
03591> R1983:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03592>       ROUTE CHANNEL    ->     5.0 02:J5           140.66     .475 1983.1005_20:25  149.41  n/a     .000
03593> *   [RDT= 5.00] out<-     5.0 01:R5           140.66     .475 1983.1005_20:25  149.41  n/a     .000
03594>         [L/S/n=  181./ .500/.035]
03595>         [Vmax=  .517:Dmax=  .269]
03596> R1983:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03597>       CONTINUOUS NASHYD      5.0 01:SOUTH-3        7.98     .032 1983.1005_16:20  148.99 .297     .000
03598>         [CN= 42.6: N= 3.00: Tp=  .89]
03599>         [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
03600>         [InterEventTime=  12.00]
```

```
03601> R1983:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03602>     ADD HYD                5.0 02:R5          140.66     .475 1983.1005_20:25  149.41  n/a     .000
03603>                    +       5.0 02:SOUTH-3       7.98     .032 1983.1005_16:20  148.99  n/a     .000
03604>                  SUM=      5.0 01:J6          148.64     .501 1983.1005_20:20  149.39  n/a     .000
03605> R1983:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03606>     SAVE HYD               5.0 01:J6          148.64     .501 1983.1005_20:20  149.39  n/a     .000
03607>       fname :J6.1983
03608>       remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
03609> R1983:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03610>     ROUTE CHANNEL   ->     5.0 02:J6          148.64     .501 1983.1005_20:20  149.39  n/a     .000
03611> *   [RDT= 5.00] out<-      5.0 01:R6          148.64     .500 1983.1005_20:30  149.39  n/a     .000
03612>       [L/S/n=  323./ .440/.035]
03613>       [Vmax=  .573:Dmax=  .306]
03614> R1983:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03615>     CONTINUOUS NASHYD      5.0 01:SOUTH-4      14.99     .048 1983.1005_16:45  148.51 .296     .000
03616>       [CN= 39.5: N= 3.00: Tp= 1.23]
03617>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
03618>       [InterEventTime=  12.00]
03619> R1983:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03620>     ADD HYD                5.0 02:R6          148.64     .500 1983.1005_20:30  149.39  n/a     .000
03621>                    +       5.0 02:SOUTH-4      14.99     .048 1983.1005_16:45  148.51  n/a     .000
03622>                  SUM=      5.0 01:Total       163.63     .545 1983.1005_20:25  149.31  n/a     .000
03623> #=============================================================================
03624> #=============================================================================
03625> ###############################################################################
03626> # CONTINUOUS RAINFALL DATA
03627> ###############################################################################
03628> #*****************************************************************************
03629> # STORMS
03630> #*****************************************************************************
03631>  ** END OF RUN : 1983
03632>
03633> *****************************************************************************************************
03634>
03635>
03636>
03637>
03638>
03639>  RUN#:COMMAND#
03640> R1984:C00001------------------------------------------------------------------------------------------
03641>      START
03642>       [TZERO =    .00 hrs on 19840401]
03643>       [METOUT=  2    (1=imperial, 2=metric output)]
03644>       [NSTORM=  0 ]
03645>       [NRUN  = 1984 ]
03646> #*****************************************************************************
03647> #  SWMHYMO  / INPUT DATA FILE
03648> #*****************************************************************************
03649> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
03650> #  Date        : 04-28-2021
03651> #  Modeller    : [J.B]
03652> #  Company     : JFSAinc.
03653> #  License #   : 2549237
03654> #*****************************************************************************
03655> #*****************************************************************************
03656> #*****************************************************************************
03657> # Ottawa International Airport - April 1st to October 31st
03658> R1984:C00002------------------------------------------------------------------------------------------
03659>  *  READ AES DATA
03660>       [Filename  = YOW_1967_2007.123                                          ]
03661>       [Start_date= 1984.0401: End_date= 1984.1031]
03662>       [DT= 60.min: Length= 3672.hrs: WetHrs=  192: DryHrs= 3480: PTOT= 349.30]
03663>       Maximum average rainfall intensities over
03664>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
03665>        17.80    9.70     7.57     4.33     3.01     1.85     1.58     1.19     1.00    mm/hr
03666>        17.80   19.40    22.70    26.00    36.10    44.30    57.00    57.00    72.20    mm
03667>       19840812 19840812 19840812 19840806 19840812 19840813 19840813 19840814 19840813  date
03668>       Number of rainfall events per following interevent time
03669>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
03670>          71       57       55       50       44       38       32       26       19
03671>       Number of events with at least the following durations
03672>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
03673>          70       42       26        7        1        0        0        0        0
03674> R1984:C00003------------------------------------------------------------------------------------------
03675>      COMPUTE API
03676>       [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
03677>       [APImax= 86.86: APIavg= 24.24: APImin=  4.38]
03678> R1984:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03679>     CONTINUOUS NASHYD      5.0 01:NORTH-1      34.70     .058 1984.0813_11:10  147.35 .422     .000
03680>       [CN= 38.1: N= 3.00: Tp= 4.12]
03681>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
03682>       [InterEventTime=  12.00]
03683> R1984:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03684>     CONTINUOUS NASHYD      5.0 01:NORTH-2      12.44     .058 1984.0813_ 7:25  147.61 .423     .000
03685>       [CN= 53.0: N= 3.00: Tp= 1.29]
03686>       [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
03687>       [InterEventTime=  12.00]
03688> R1984:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03689>     CONTINUOUS NASHYD      5.0 01:HWY-1        2.36     .022 1984.0813_ 7:10  150.42 .431     .000
03690>       [CN= 81.7: N= 3.00: Tp= 1.21]
03691>       [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
03692>       [InterEventTime=  12.00]
03693> R1984:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03694>     ADD HYD                5.0 02:NORTH-1      34.70     .058 1984.0813_11:10  147.35  n/a     .000
03695>                    +       5.0 02:NORTH-2      12.44     .058 1984.0813_ 7:25  147.61  n/a     .000
03696>                    +       5.0 02:HWY-1         2.36     .022 1984.0813_ 7:10  150.42  n/a     .000
03697>                  SUM=      5.0 01:J1           49.51     .111 1984.0813_ 7:45  147.56  n/a     .000
03698> R1984:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03699>     ROUTE CHANNEL   ->     5.0 02:J1           49.51     .111 1984.0813_ 7:45  147.56  n/a     .000
03700>     [RDT= 5.00] out<-      5.0 01:R1           49.51     .110 1984.0813_ 8:05  147.56  n/a     .000
03701>       [L/S/n=  478./ .440/.035]
03702>       [Vmax=  .404:Dmax=  .173]
03703> R1984:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03704>     CONTINUOUS NASHYD      5.0 01:INT-1        4.39     .021 1984.0813_ 7:55  147.95 .424     .000
03705>       [CN= 60.4: N= 3.00: Tp= 1.66]
03706>       [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
03707>       [InterEventTime=  12.00]
03708> R1984:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03709>     CONTINUOUS NASHYD      5.0 01:INT-2        3.61     .018 1984.0813_ 6:50  147.49 .422     .000
03710>       [CN= 47.4: N= 3.00: Tp=  .95]
03711>       [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
03712>       [InterEventTime=  12.00]
03713> R1984:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03714>     CONTINUOUS NASHYD      5.0 01:A3A          3.84     .019 1984.0813_ 7:35  147.81 .423     .000
03715>       [CN= 58.4: N= 3.00: Tp= 1.46]
03716>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
03717>       [InterEventTime=  12.00]
03718> R1984:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03719>     CONTINUOUS NASHYD      5.0 01:A3B          5.29     .019 1984.0813_ 7:20  147.41 .422     .000
03720>       [CN= 42.6: N= 3.00: Tp= 1.26]
03721>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
03722>       [InterEventTime=  12.00]
03723> R1984:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03724>     CONTINUOUS NASHYD      5.0 01:A3C          1.21     .005 1984.0813_ 6:45  147.33 .422     .000
03725>       [CN= 37.8: N= 3.00: Tp=  .87]
03726>       [IaREC= 6.00: SMIN=179.29: SMAX=******: SK= .030]
03727>       [InterEventTime=  12.00]
03728> R1984:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03729>     ROUTE CHANNEL   ->     5.0 02:A3C          1.21     .005 1984.0813_ 6:45  147.33  n/a     .000
03730>     [RDT= 5.00] out<-      5.0 01:A3C-R        1.21     .003 1984.0813_ 7:50  147.33  n/a     .000
03731>       [L/S/n=  500./ .140/.035]
03732>       [Vmax=  .096:Dmax=  .048]
03733> R1984:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03734>     CONTINUOUS NASHYD      5.0 01:INT-3        5.71     .039 1984.0813_ 6:45  147.81 .423     .000
03735>       [CN= 58.5: N= 3.00: Tp=  .89]
03736>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
03737>       [InterEventTime=  12.00]
03738> R1984:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03739>     ADD HYD                5.0 02:R1           49.51     .110 1984.0813_ 8:05  147.56  n/a     .000
03740>                    +       5.0 02:INT-1         4.39     .021 1984.0813_ 7:55  147.95  n/a     .000
03741>                    +       5.0 02:INT-2         3.61     .018 1984.0813_ 6:50  147.49  n/a     .000
03742>                    +       5.0 02:INT-3         5.71     .039 1984.0813_ 6:45  147.81  n/a     .000
03743>                    +       5.0 02:A3A           3.84     .019 1984.0813_ 7:35  147.81  n/a     .000
03744>                    +       5.0 02:A3B           5.29     .019 1984.0813_ 7:20  147.41  n/a     .000
03745>                    +       5.0 02:A3C-R         1.21     .003 1984.0813_ 7:50  147.33  n/a     .000
03746>                  SUM=      5.0 01:J2           73.56     .214 1984.0813_ 7:35  147.60  n/a     .000
03747> R1984:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03748>     ROUTE CHANNEL   ->     5.0 02:J2           73.56     .214 1984.0813_ 7:35  147.60  n/a     .000
03749>     [RDT= 5.00] out<-      5.0 01:R2           73.56     .213 1984.0813_ 7:40  147.60  n/a     .000
03750>       [L/S/n=  359./ .560/.035]
03751>       [Vmax=  .466:Dmax=  .142]
03752> R1984:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03753>     CONTINUOUS NASHYD      5.0 01:A1A          21.43     .052 1984.0813_ 8:05  147.31 .422     .000
03754>       [CN= 36.1: N= 3.00: Tp= 1.68]
03755>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
03756>       [InterEventTime=  12.00]
03757> R1984:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03758>     CONTINUOUS NASHYD      5.0 01:A1B          4.70     .014 1984.0813_ 8:05  147.43 .422     .000
03759>       [CN= 44.6: N= 3.00: Tp= 1.72]
03760>       [IaREC= 6.00: SMIN=134.47: SMAX=896.47: SK= .030]
03761>       [InterEventTime=  12.00]
03762> R1984:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03763>     CONTINUOUS NASHYD      5.0 01:A2           9.14     .068 1984.0813_ 7:05  148.60 .425     .000
03764>       [CN= 68.4: N= 3.00: Tp= 1.12]
03765>       [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
03766>       [InterEventTime=  12.00]
03767> R1984:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03768>     ADD HYD                5.0 02:R2           73.56     .213 1984.0813_ 7:40  147.60  n/a     .000
03769>                    +       5.0 02:A1A          21.43     .052 1984.0813_ 8:05  147.31  n/a     .000
03770>                    +       5.0 02:A1B           4.70     .014 1984.0813_ 8:05  147.43  n/a     .000
03771>                    +       5.0 02:A2            9.14     .068 1984.0813_ 7:05  148.60  n/a     .000
03772>                  SUM=      5.0 01:J3          108.84     .341 1984.0813_ 7:35  147.62  n/a     .000
03773> R1984:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03774>     ROUTE CHANNEL   ->     5.0 02:J3          108.84     .341 1984.0813_ 7:35  147.62  n/a     .000
03775>     [RDT= 5.00] out<-      5.0 01:R3          108.84     .336 1984.0813_ 7:55  147.62  n/a     .000
03776>       [L/S/n=  396./ .305/.035]
03777>       [Vmax=  .400:Dmax=  .289]
03778> R1984:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03779>     CONTINUOUS NASHYD      5.0 01:SOUTH-1      20.21     .052 1984.0813_ 7:35  147.30 .422     .000
03780>       [CN= 35.5: N= 3.00: Tp= 1.40]
03781>       [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
03782>       [InterEventTime=  12.00]
03783> R1984:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03784>     ADD HYD                5.0 02:R3          108.84     .336 1984.0813_ 7:55  147.62  n/a     .000
03785>                    +       5.0 02:SOUTH-1      20.21     .052 1984.0813_ 7:35  147.30  n/a     .000
03786>                  SUM=      5.0 01:J4          129.05     .386 1984.0813_ 7:50  147.57  n/a     .000
03787> R1984:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03788>     ROUTE CHANNEL   ->     5.0 02:J4          129.05     .386 1984.0813_ 7:50  147.57  n/a     .000
03789>     [RDT= 5.00] out<-      5.0 01:R4          129.05     .382 1984.0813_ 8:10  147.57  n/a     .000
03790>       [L/S/n=  482./ .410/.035]
03791>       [Vmax=  .528:Dmax=  .278]
03792> R1984:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03793>     CONTINUOUS NASHYD      5.0 01:SOUTH-2      11.61     .039 1984.0813_ 6:50  147.31 .422     .000
03794>       [CN= 36.7: N= 3.00: Tp=  .96]
03795>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
03796>       [InterEventTime=  12.00]
03797> R1984:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03798>     ADD HYD                5.0 02:R4          129.05     .382 1984.0813_ 8:10  147.57  n/a     .000
03799>                    +       5.0 02:SOUTH-2      11.61     .039 1984.0813_ 6:50  147.31  n/a     .000
03800>                  SUM=      5.0 01:J5          140.66     .411 1984.0813_ 8:05  147.55  n/a     .000
03801> R1984:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03802>     ROUTE CHANNEL   ->     5.0 02:J5          140.66     .411 1984.0813_ 8:05  147.55  n/a     .000
03803>     [RDT= 5.00] out<-      5.0 01:R5          140.66     .410 1984.0813_ 8:10  147.55  n/a     .000
03804>       [L/S/n=  181./ .500/.035]
03805>       [Vmax=  .504:Dmax=  .257]
03806> R1984:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03807>     CONTINUOUS NASHYD      5.0 01:SOUTH-3       7.98     .035 1984.0813_ 6:45  147.41 .422     .000
03808>       [CN= 42.6: N= 3.00: Tp=  .89]
03809>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
03810>       [InterEventTime=  12.00]
03811> R1984:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03812>     ADD HYD                5.0 02:R5          140.66     .410 1984.0813_ 8:10  147.55  n/a     .000
03813>                    +       5.0 02:SOUTH-3       7.98     .035 1984.0813_ 6:45  147.41  n/a     .000
03814>                  SUM=      5.0 01:J6          148.64     .433 1984.0813_ 8:05  147.54  n/a     .000
03815> R1984:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03816>     SAVE HYD               5.0 01:J6          148.64     .433 1984.0813_ 8:05  147.54  n/a     .000
03817>       fname :J6.1984
03818>       remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
03819> R1984:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03820>     ROUTE CHANNEL   ->     5.0 02:J6          148.64     .433 1984.0813_ 8:05  147.54  n/a     .000
03821>     [RDT= 5.00] out<-      5.0 01:R6          148.64     .432 1984.0813_ 8:15  147.54  n/a     .000
03822>       [L/S/n=  323./ .440/.035]
03823>       [Vmax=  .555:Dmax=  .287]
03824> R1984:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03825>     CONTINUOUS NASHYD      5.0 01:SOUTH-4      14.99     .047 1984.0813_ 7:20  147.35 .422     .000
03826>       [CN= 39.5: N= 3.00: Tp= 1.23]
03827>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
03828>       [InterEventTime=  12.00]
03829> R1984:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03830>     ADD HYD                5.0 02:R6          148.64     .432 1984.0813_ 8:15  147.54  n/a     .000
03831>                    +       5.0 02:SOUTH-4      14.99     .047 1984.0813_ 7:20  147.35  n/a     .000
03832>                  SUM=      5.0 01:Total       163.63     .473 1984.0813_ 8:10  147.52  n/a     .000
03833> #=============================================================================
03834> #=============================================================================
03835> ###############################################################################
03836> # CONTINUOUS RAINFALL DATA
03837> ###############################################################################
03838> #*****************************************************************************
03839> # STORMS
03840> #*****************************************************************************
03841>  ** END OF RUN : 1984
03842>
03843> *****************************************************************************************************
03844>
03845>
03846>
03847>
03848>
03849>  RUN#:COMMAND#
03850> R1985:C00001------------------------------------------------------------------------------------------
03851>      START
03852>       [TZERO =    .00 hrs on 19850401]
03853>       [METOUT=  2    (1=imperial, 2=metric output)]
03854>       [NSTORM=  0 ]
03855>       [NRUN  = 1985 ]
03856> #*****************************************************************************
03857> #  SWMHYMO  / INPUT DATA FILE
03858> #*****************************************************************************
03859> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
03860> #  Date        : 04-28-2021
03861> #  Modeller    : [J.B]
03862> #  Company     : JFSAinc.
03863> #  License #   : 2549237
03864> #*****************************************************************************
03865> #*****************************************************************************
03866> #*****************************************************************************
03867> # Ottawa International Airport - April 1st to October 31st
03868> R1985:C00002------------------------------------------------------------------------------------------
03869>  *  READ AES DATA
03870>       [Filename  = YOW_1967_2007.123                                          ]
03871>       [Start_date= 1985.0401: End_date= 1985.1031]
03872>       [DT= 60.min: Length= 5136.hrs: WetHrs=  279: DryHrs= 4857: PTOT= 456.00]
03873>       Maximum average rainfall intensities over
03874>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
03875>        19.00    13.60    11.73     6.60     3.30     1.65     1.11      .89      .60    mm/hr
03876>        19.00    27.20    35.20    39.60    39.60    39.60    40.10    42.80    43.40    mm
03877>       19850716 19850617 19850617 19850618 19850618 19850618 19850618 19850827 19850827  date
03878>       Number of rainfall events per following interevent time
03879>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
03880>          94       79       76       66       61       50       44       38       27
03881>       Number of events with at least the following durations
03882>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
03883>          93       62       35       10        3        0        0        0        0
03884> R1985:C00003------------------------------------------------------------------------------------------
03885>      COMPUTE API
03886>       [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
03887>       [APImax= 57.30: APIavg= 21.73: APImin=  4.86]
03888> R1985:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03889>     CONTINUOUS NASHYD      5.0 01:NORTH-1      34.70     .046 1985.0618_ 4:00  155.02 .340     .000
03890>       [CN= 38.1: N= 3.00: Tp= 4.12]
03891>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
03892>       [InterEventTime=  12.00]
03893> R1985:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03894>     CONTINUOUS NASHYD      5.0 01:NORTH-2      12.44     .054 1985.0618_ 0:45  156.12 .342     .000
03895>       [CN= 53.0: N= 3.00: Tp= 1.29]
03896>       [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
03897>       [InterEventTime=  12.00]
03898> R1985:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03899>     CONTINUOUS NASHYD      5.0 01:HWY-1        2.36     .027 1985.0618_ 0:35  161.58 .354     .000
03900>       [CN= 81.7: N= 3.00: Tp= 1.21]
03901>       [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
03902>       [InterEventTime=  12.00]
03903> R1985:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03904>     ADD HYD                5.0 02:NORTH-1      34.70     .046 1985.0618_ 4:00  155.02  n/a     .000
03905>                    +       5.0 02:NORTH-2      12.44     .054 1985.0618_ 0:45  156.12  n/a     .000
03906>                    +       5.0 02:HWY-1         2.36     .027 1985.0618_ 0:35  161.58  n/a     .000
03907>                  SUM=      5.0 01:J1           49.51     .105 1985.0618_ 1:00  155.61  n/a     .000
03908> R1985:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03909>     ROUTE CHANNEL   ->     5.0 02:J1           49.51     .105 1985.0618_ 1:00  155.61  n/a     .000
03910> *   [RDT= 5.00] out<-      5.0 01:R1           49.51     .103 1985.0618_ 1:20  155.61  n/a     .000
03911>       [L/S/n=  478./ .440/.035]
03912>       [Vmax=  .397:Dmax=  .169]
03913> R1985:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03914>     CONTINUOUS NASHYD      5.0 01:INT-1        4.39     .021 1985.0618_ 1:15  156.94 .344     .000
03915>       [CN= 60.4: N= 3.00: Tp= 1.66]
03916>       [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
03917>       [InterEventTime=  12.00]
03918> R1985:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03919>     CONTINUOUS NASHYD      5.0 01:INT-2        3.61     .015 1985.0618_ 0:30  155.62 .341     .000
03920>       [CN= 47.4: N= 3.00: Tp=  .95]
03921>       [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
03922>       [InterEventTime=  12.00]
03923> R1985:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03924>     CONTINUOUS NASHYD      5.0 01:A3A          3.84     .018 1985.0618_ 1:00  156.69 .344     .000
03925>       [CN= 58.4: N= 3.00: Tp= 1.46]
03926>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
03927>       [InterEventTime=  12.00]
03928> R1985:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03929>     CONTINUOUS NASHYD      5.0 01:A3B          5.29     .016 1985.0618_ 0:45  155.26 .340     .000
03930>       [CN= 42.6: N= 3.00: Tp= 1.26]
03931>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
03932>       [InterEventTime=  12.00]
03933> R1985:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03934>     CONTINUOUS NASHYD      5.0 01:A3C          1.21     .004 1985.0618_ 0:25  154.95 .340     .000
03935>       [CN= 37.8: N= 3.00: Tp=  .87]
03936>       [IaREC= 6.00: SMIN=179.29: SMAX=******: SK= .030]
03937>       [InterEventTime=  12.00]
03938> R1985:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03939>     ROUTE CHANNEL   ->     5.0 02:A3C          1.21     .004 1985.0618_ 0:25  154.95  n/a     .000
03940> *   [RDT= 5.00] out<-      5.0 01:A3C-R        1.21     .002 1985.0618_ 1:25  154.95  n/a     .000
03941>       [L/S/n=  500./ .140/.035]
03942>       [Vmax=  .084:Dmax=  .043]
03943> R1985:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03944>     CONTINUOUS NASHYD      5.0 01:INT-3        5.71     .035 1985.0618_ 0:25  156.69 .344     .000
03945>       [CN= 58.5: N= 3.00: Tp=  .89]
03946>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
03947>       [InterEventTime=  12.00]
03948> R1985:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03949>     ADD HYD                5.0 02:R1           49.51     .103 1985.0618_ 1:20  155.61  n/a     .000
03950>                    +       5.0 02:INT-1         4.39     .021 1985.0618_ 1:15  156.94  n/a     .000
03951>                    +       5.0 02:INT-2         3.61     .015 1985.0618_ 0:30  155.62  n/a     .000
03952>                    +       5.0 02:INT-3         5.71     .035 1985.0618_ 0:25  156.69  n/a     .000
03953>                    +       5.0 02:A3A           3.84     .018 1985.0618_ 1:00  156.69  n/a     .000
03954>                    +       5.0 02:A3B           5.29     .016 1985.0618_ 0:45  155.26  n/a     .000
03955>                    +       5.0 02:A3C-R         1.21     .002 1985.0618_ 1:25  154.95  n/a     .000
03956>                  SUM=      5.0 01:J2           73.56     .202 1985.0618_ 0:55  155.79  n/a     .000
03957> R1985:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03958>     ROUTE CHANNEL   ->     5.0 02:J2           73.56     .202 1985.0618_ 0:55  155.79  n/a     .000
03959> *   [RDT= 5.00] out<-      5.0 01:R2           73.56     .201 1985.0618_ 1:05  155.79  n/a     .000
03960>       [L/S/n=  359./ .560/.035]
```

```
03961>       (Vmax=  .455:Dmax=  .137)
03962> R1985:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03963>     CONTINUOUS NASHYD     5.0 01:A1A          21.43     .044 1985.0618_ 1:25  154.88 .340     .000
03964>       [CN= 36.1: N= 3.00: Tp= 1.68]
03965>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
03966>       [InterEventTime=  12.00]
03967> R1985:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03968>     CONTINUOUS NASHYD     5.0 01:A1B           4.70     .013 1985.0618_ 1:25  155.35 .341     .000
03969>       [CN= 44.6: N= 3.00: Tp= 1.72]
03970>       [IaREC= 6.00: SMIN=134.47: SMAX=896.47: SK= .030]
03971>       [InterEventTime=  12.00]
03972> R1985:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03973>     CONTINUOUS NASHYD     5.0 01:A2            9.14     .070 1985.0618_ 0:35  158.09 .347     .000
03974>       [CN= 68.4: N= 3.00: Tp= 1.12]
03975>       [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
03976>       [InterEventTime=  12.00]
03977> R1985:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03978>     ADD HYD               5.0 02:R2           73.56     .201 1985.0618_ 1:05  155.79 n/a      .000
03979>                     +     5.0 02:A1A          21.43     .044 1985.0618_ 1:25  154.88 n/a      .000
03980>                     +     5.0 02:A1B           4.70     .013 1985.0618_ 1:25  155.35 n/a      .000
03981>                     +     5.0 02:A2            9.14     .070 1985.0618_ 0:35  158.09 n/a      .000
03982>                   SUM=    5.0 01:J3          108.84     .321 1985.0618_ 1:00  155.79 n/a      .000
03983> R1985:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03984>     ROUTE CHANNEL    ->    5.0 02:J3          108.84     .321 1985.0618_ 1:00  155.79 n/a      .000
03985> *   [RDT= 5.00] out<-     5.0 01:R3          108.84     .315 1985.0618_ 1:20  155.79 n/a      .000
03986>       [L/S/n=  396./ .305/ .035]
03987>       (Vmax=  .397:Dmax=  .282)
03988> R1985:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03989>     CONTINUOUS NASHYD     5.0 01:SOUTH-1      20.21     .043 1985.0618_ 1:00  154.82 .340     .000
03990>       [CN= 35.5: N= 3.00: Tp= 1.40]
03991>       [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
03992>       [InterEventTime=  12.00]
03993> R1985:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03994>     ADD HYD               5.0 02:R3          108.84     .315 1985.0618_ 1:20  155.79 n/a      .000
03995>                     +     5.0 02:SOUTH-1      20.21     .043 1985.0618_ 0:55  154.82 n/a      .000
03996>                   SUM=    5.0 01:J4          129.05     .357 1985.0618_ 1:15  155.64 n/a      .000
03997> R1985:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03998>     ROUTE CHANNEL    ->    5.0 02:J4          129.05     .357 1985.0618_ 1:15  155.64 n/a      .000
03999> *   [RDT= 5.00] out<-     5.0 01:R4          129.05     .353 1985.0618_ 1:30  155.64 n/a      .000
04000>       [L/S/n=  482./ .410/ .035]
04001>       (Vmax=  .522:Dmax=  .270)
04002> R1985:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04003>     CONTINUOUS NASHYD     5.0 01:SOUTH-2      11.61     .031 1985.0618_ 0:30  154.88 .340     .000
04004>       [CN= 36.7: N= 3.00: Tp=  .96]
04005>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
04006>       [InterEventTime=  12.00]
04007> R1985:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04008>     ADD HYD               5.0 02:R4          129.05     .353 1985.0618_ 1:30  155.64 n/a      .000
04009>                     +     5.0 02:SOUTH-2      11.61     .031 1985.0618_ 0:30  154.88 n/a      .000
04010>                   SUM=    5.0 01:J5          140.66     .377 1985.0618_ 1:25  155.57 n/a      .000
04011> R1985:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04012>     ROUTE CHANNEL    ->    5.0 02:J5          140.66     .377 1985.0618_ 1:25  155.57 n/a      .000
04013> *   [RDT= 5.00] out<-     5.0 01:R5          140.66     .377 1985.0618_ 1:30  155.57 n/a      .000
04014>       [L/S/n=  181./ .500/ .035]
04015>       (Vmax=  .498:Dmax=  .251)
04016> R1985:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04017>     CONTINUOUS NASHYD     5.0 01:SOUTH-3       7.98     .029 1985.0618_ 0:25  155.26 .340     .000
04018>       [CN= 42.6: N= 3.00: Tp=  .89]
04019>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
04020>       [InterEventTime=  12.00]
04021> R1985:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04022>     ADD HYD               5.0 02:R5          140.66     .377 1985.0618_ 1:30  155.57 n/a      .000
04023>                     +     5.0 02:SOUTH-3       7.98     .029 1985.0618_ 0:25  155.26 n/a      .000
04024>                   SUM=    5.0 01:J6          148.64     .397 1985.0618_ 1:30  155.56 n/a      .000
04025> R1985:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04026>     SAVE HYD              5.0 01:J6          148.64     .397 1985.0618_ 1:30  155.56 n/a      .000
04027>       fname :J6.1985
04028>       remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
04029> R1985:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04030>     ROUTE CHANNEL    ->    5.0 02:J6          148.64     .397 1985.0618_ 1:30  155.56 n/a      .000
04031> *   [RDT= 5.00] out<-     5.0 01:R6          148.64     .395 1985.0618_ 1:35  155.56 n/a      .000
04032>       [L/S/n=  323./ .440/ .035]
04033>       (Vmax=  .547:Dmax=  .277)
04034> R1985:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04035>     CONTINUOUS NASHYD     5.0 01:SOUTH-4      14.99     .040 1985.0618_ 0:45  155.02 .340     .000
04036>       [CN= 39.5: N= 3.00: Tp= 1.23]
04037>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
04038>       [InterEventTime=  12.00]
04039> R1985:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04040>     ADD HYD               5.0 02:R6          148.64     .395 1985.0618_ 1:35  155.56 n/a      .000
04041>                     +     5.0 02:SOUTH-4      14.99     .040 1985.0618_ 0:45  155.02 n/a      .000
04042>                   SUM=    5.0 01:Total       163.63     .430 1985.0618_ 1:35  155.51 n/a      .000
04043> #=========================================================================
04044> #=========================================================================
04045> ##########################################################################
04046> # CONTINUOUS RAINFALL DATA
04047> ##########################################################################
04048> #*************************************************************************
04049> # STORMS
04050> #*************************************************************************
04051>   ** END OF RUN : 1985
04052>
04053> ************************************************************************************************************
04054>
04055>
04056>
04057>
04058>
04059>  RUN#:COMMAND#
04060> R1986:C00001------------------------------------------------------------------------------------------------
04061>      START
04062>       [TZERO =    .00 hrs on 19860401]
04063>       [METOUT=  2   (1=imperial, 2=metric output)]
04064>       [NSTORM=  0 ]
04065>       [NRUN  = 1986 ]
04066> #*************************************************************************
04067> #  SWMHYMO  / INPUT DATA FILE
04068> #*************************************************************************
04069> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
04070> #  Date       : 04-28-2021
04071> #  Modeller   : [J.B]
04072> #  Company    : JFSAinc.
04073> #  License #  :  2549237
04074> #*************************************************************************
04075> #*************************************************************************
04076> #*************************************************************************
04077> # Ottawa International Airport - April 1st to October 31st
04078> R1986:C00002------------------------------------------------------------------------------------------------
04079>   *  READ AES DATA
04080>       [Filename  = YOW_1967_2007.123                                    ]
04081>       [Start_date= 1986.0401: End_date= 1986.1031]
04082>       [DT= 60.min: Length= 5136.hrs: WetHrs=  454: DryHrs= 4682: PTOT= 790.80)
04083>       Maximum average rainfall intensities over
04084>         1 hr   2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
04085>        18.30    17.80    13.57     7.07     4.84     2.89     2.42     1.85     1.31     mm/hr
04086>        18.30    35.60    40.70    42.40    58.10    69.30    87.00    88.60    94.40     mm
04087>      19860729 19860729 19860729 19860729 19860912 19860912 19860912 19860912 19860913  date
04088>       Number of rainfall events per following interevent time
04089>         1 hr   2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
04090>          158      129      117       91       70       52       43       38       26
04091>       Number of events with at least the following durations
04092>         1 hr   2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
04093>          157       93       69       19        1        0        0        0        0
04094> R1986:C00003------------------------------------------------------------------------------------------------
04095>      COMPUTE API
04096>       [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
04097>       [APImax=102.42: APIavg= 36.16: APImin=  7.30]
04098> R1986:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04099>     CONTINUOUS NASHYD     5.0 01:NORTH-1      34.70     .152 1986.0912_ 8:30  367.72 .465     .000
04100>       [CN= 38.1: N= 3.00: Tp= 4.12]
04101>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
04102>       [InterEventTime=  12.00]
04103> R1986:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04104>     CONTINUOUS NASHYD     5.0 01:NORTH-2      12.44     .142 1986.0911_23:50  369.10 .467     .000
04105>       [CN= 53.0: N= 3.00: Tp= 1.29]
04106>       [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
04107>       [InterEventTime=  12.00]
04108> R1986:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04109>     CONTINUOUS NASHYD     5.0 01:HWY-1         2.36     .049 1986.0911_23:40  373.61 .472     .000
04110>       [CN= 81.7: N= 3.00: Tp= 1.21]
04111>       [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
04112>       [InterEventTime=  12.00]
04113> R1986:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04114>     ADD HYD               5.0 02:NORTH-1      34.70     .152 1986.0912_ 8:30  367.72 n/a      .000
04115>                     +     5.0 02:NORTH-2      12.44     .142 1986.0911_23:50  369.10 n/a      .000
04116>                     +     5.0 02:HWY-1         2.36     .049 1986.0911_23:40  373.61 n/a      .000
04117>                   SUM=    5.0 01:J1          49.51     .310 1986.0912_ 6:40  368.35 n/a      .000
04118> R1986:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04119>     ROUTE CHANNEL    ->    5.0 02:J1          49.51     .310 1986.0912_ 6:40  368.35 n/a      .000
04120> *   [RDT= 5.00] out<-     5.0 01:R1          49.51     .307 1986.0912_ 6:55  368.34 n/a      .000
04121>       [L/S/n=  478./ .440/ .035]
04122>       (Vmax=  .536:Dmax=  .268)
04123> R1986:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04124>     CONTINUOUS NASHYD     5.0 01:INT-1         4.39     .053 1986.0912_ 0:15  369.96 .468     .000
04125>       [CN= 60.4: N= 3.00: Tp= 1.66]
04126>       [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
04127>       [InterEventTime=  12.00]
04128> R1986:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04129>     CONTINUOUS NASHYD     5.0 01:INT-2         3.61     .043 1986.0912_ 6:20  368.51 .466     .000
04130>       [CN= 47.4: N= 3.00: Tp=  .95]
04131>       [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
04132>       [InterEventTime=  12.00]
04133> R1986:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04134>     CONTINUOUS NASHYD     5.0 01:A3A           3.84     .047 1986.0912_ 0:05  369.71 .468     .000
04135>       [CN= 58.4: N= 3.00: Tp= 1.46]
04136>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
04137>       [InterEventTime=  12.00]
04138> R1986:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04139>     CONTINUOUS NASHYD     5.0 01:A3B           5.29     .049 1986.0912_ 6:35  368.05 .465     .000
04140>       [CN= 42.6: N= 3.00: Tp= 1.26]
04141>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
04142>       [InterEventTime=  12.00]
04143> R1986:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04144>     CONTINUOUS NASHYD     5.0 01:A3C           1.21     .012 1986.0912_ 6:15  367.60 .465     .000
04145>       [CN= 37.8: N= 3.00: Tp=  .87]
04146>       [IaREC= 6.00: SMIN=179.29: SMAX=******: SK= .030]
04147>       [InterEventTime=  12.00]
04148> R1986:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04149>     ROUTE CHANNEL    ->    5.0 02:A3C           1.21     .012 1986.0912_ 6:15  367.60 n/a      .000
04150> *   [RDT= 5.00] out<-     5.0 01:A3C-R         1.21     .009 1986.0912_ 6:40  367.60 n/a      .000
04151>       [L/S/n=  500./ .140/ .035]
04152>       (Vmax=  .136:Dmax=  .070)
04153> R1986:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04154>     CONTINUOUS NASHYD     5.0 01:INT-3         5.71     .086 1986.0911_23:30  369.71 .468     .000
04155>       [CN= 58.5: N= 3.00: Tp=  .89]
04156>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
04157>       [InterEventTime=  12.00]
04158> R1986:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04159>     ADD HYD               5.0 02:R1           49.51     .307 1986.0912_ 6:55  368.34 n/a      .000
04160>                     +     5.0 02:INT-1         4.39     .053 1986.0912_ 0:15  369.96 n/a      .000
04161>                     +     5.0 02:INT-2         3.61     .043 1986.0912_ 6:20  368.51 n/a      .000
04162>                     +     5.0 02:INT-3         5.71     .086 1986.0911_23:30  369.71 n/a      .000
04163>                     +     5.0 02:A3A           3.84     .047 1986.0912_ 0:05  369.71 n/a      .000
04164>                     +     5.0 02:A3B           5.29     .049 1986.0912_ 6:35  368.05 n/a      .000
04165>                     +     5.0 02:A3C-R         1.21     .009 1986.0912_ 6:40  367.60 n/a      .000
04166>                   SUM=    5.0 01:J2           73.56     .571 1986.0912_ 6:35  368.60 n/a      .000
04167> R1986:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04168>     ROUTE CHANNEL    ->    5.0 02:J2           73.56     .571 1986.0912_ 6:35  368.60 n/a      .000
04169> *   [RDT= 5.00] out<-     5.0 01:R2           73.56     .568 1986.0912_ 6:45  368.60 n/a      .000
04170>       [L/S/n=  359./ .560/ .035]
04171>       (Vmax=  .658:Dmax=  .231)
04172> R1986:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04173>     CONTINUOUS NASHYD     5.0 01:A1A          21.43     .138 1986.0912_ 6:55  367.49 .465     .000
04174>       [CN= 36.1: N= 3.00: Tp= 1.68]
04175>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
04176>       [InterEventTime=  12.00]
04177> R1986:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04178>     CONTINUOUS NASHYD     5.0 01:A1B           4.70     .037 1986.0912_ 7:00  368.17 .466     .000
04179>       [CN= 44.6: N= 3.00: Tp= 1.72]
04180>       [IaREC= 6.00: SMIN=134.47: SMAX=896.47: SK= .030]
04181>       [InterEventTime=  12.00]
04182> R1986:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04183>     CONTINUOUS NASHYD     5.0 01:A2            9.14     .155 1986.0911_23:40  371.08 .469     .000
04184>       [CN= 68.4: N= 3.00: Tp= 1.12]
04185>       [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
04186>       [InterEventTime=  12.00]
04187> R1986:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04188>     ADD HYD               5.0 02:R2           73.56     .568 1986.0912_ 6:45  368.60 n/a      .000
04189>                     +     5.0 02:A1A          21.43     .138 1986.0912_ 6:55  367.49 n/a      .000
04190>                     +     5.0 02:A1B           4.70     .037 1986.0912_ 7:00  368.17 n/a      .000
04191>                     +     5.0 02:A2            9.14     .155 1986.0911_23:40  371.08 n/a      .000
04192>                   SUM=    5.0 01:J3          108.84     .876 1986.0912_ 6:40  368.57 n/a      .000
04193> R1986:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04194>     ROUTE CHANNEL    ->    5.0 02:J3          108.84     .876 1986.0912_ 6:40  368.57 n/a      .000
04195> *   [RDT= 5.00] out<-     5.0 01:R3          108.84     .865 1986.0912_ 6:50  368.57 n/a      .000
04196>       [L/S/n=  396./ .305/ .035]
04197>       (Vmax=  .482:Dmax=  .395)
04198> R1986:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04199>     CONTINUOUS NASHYD     5.0 01:SOUTH-1      20.21     .140 1986.0912_ 6:40  367.38 .465     .000
04200>       [CN= 35.5: N= 3.00: Tp= 1.40]
04201>       [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
04202>       [InterEventTime=  12.00]
04203> R1986:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04204>     ADD HYD               5.0 02:R3          108.84     .865 1986.0912_ 6:50  368.57 n/a      .000
04205>                     +     5.0 02:SOUTH-1      20.21     .140 1986.0912_ 6:40  367.38 n/a      .000
04206>                   SUM=    5.0 01:J4          129.05    1.004 1986.0912_ 6:50  368.38 n/a      .000
04207> R1986:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04208>     ROUTE CHANNEL    ->    5.0 02:J4          129.05    1.004 1986.0912_ 6:50  368.38 n/a      .000
04209> *   [RDT= 5.00] out<-     5.0 01:R4          129.05     .994 1986.0912_ 7:00  368.38 n/a      .000
04210>       [L/S/n=  482./ .410/ .035]
04211>       (Vmax=  .645:Dmax=  .409)
04212> R1986:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04213>     CONTINUOUS NASHYD     5.0 01:SOUTH-2      11.61     .103 1986.0912_ 6:20  367.49 .465     .000
04214>       [CN= 36.7: N= 3.00: Tp=  .96]
04215>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
04216>       [InterEventTime=  12.00]
04217> R1986:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04218>     ADD HYD               5.0 02:R4          129.05     .994 1986.0912_ 7:00  368.38 n/a      .000
04219>                     +     5.0 02:SOUTH-2      11.61     .103 1986.0912_ 6:20  367.49 n/a      .000
04220>                   SUM=    5.0 01:J5          140.66    1.077 1986.0912_ 6:55  368.31 n/a      .000
04221> R1986:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04222>     ROUTE CHANNEL    ->    5.0 02:J5          140.66    1.077 1986.0912_ 6:55  368.31 n/a      .000
04223> *   [RDT= 5.00] out<-     5.0 01:R5          140.66    1.075 1986.0912_ 7:00  368.31 n/a      .000
04224>       [L/S/n=  181./ .500/ .035]
04225>       (Vmax=  .646:Dmax=  .367)
04226> R1986:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04227>     CONTINUOUS NASHYD     5.0 01:SOUTH-3       7.98     .087 1986.0912_ 6:15  368.05 .465     .000
04228>       [CN= 42.6: N= 3.00: Tp=  .89]
04229>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
04230>       [InterEventTime=  12.00]
04231> R1986:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04232>     ADD HYD               5.0 02:R5          140.66    1.075 1986.0912_ 7:00  368.31 n/a      .000
04233>                     +     5.0 02:SOUTH-3       7.98     .087 1986.0912_ 6:15  368.05 n/a      .000
04234>                   SUM=    5.0 01:J6          148.64    1.140 1986.0912_ 6:55  368.30 n/a      .000
04235> R1986:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04236>     SAVE HYD              5.0 01:J6          148.64    1.140 1986.0912_ 6:55  368.30 n/a      .000
04237>       fname :J6.1986
04238>       remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
04239> R1986:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04240>     ROUTE CHANNEL    ->    5.0 02:J6          148.64    1.140 1986.0912_ 6:55  368.30 n/a      .000
04241> *   [RDT= 5.00] out<-     5.0 01:R6          148.64    1.135 1986.0912_ 7:05  368.29 n/a      .000
04242>       [L/S/n=  323./ .440/ .035]
04243>       (Vmax=  .677:Dmax=  .422)
04244> R1986:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04245>     CONTINUOUS NASHYD     5.0 01:SOUTH-4      14.99     .126 1986.0912_ 6:35  367.72 .465     .000
04246>       [CN= 39.5: N= 3.00: Tp= 1.23]
04247>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
04248>       [InterEventTime=  12.00]
04249> R1986:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04250>     ADD HYD               5.0 02:R6          148.64    1.135 1986.0912_ 7:05  368.29 n/a      .000
04251>                     +     5.0 02:SOUTH-4      14.99     .126 1986.0912_ 6:35  367.72 n/a      .000
04252>                   SUM=    5.0 01:Total       163.63    1.251 1986.0912_ 7:00  368.24 n/a      .000
04253> #=========================================================================
04254> #=========================================================================
04255> ##########################################################################
04256> # CONTINUOUS RAINFALL DATA
04257> ##########################################################################
04258> #*************************************************************************
04259> # STORMS
04260> #*************************************************************************
04261>   ** END OF RUN : 1986
04262>
04263> ************************************************************************************************************
04264>
04265>
04266>
04267>
04268>
04269>  RUN#:COMMAND#
04270> R1987:C00001------------------------------------------------------------------------------------------------
04271>      START
04272>       [TZERO =    .00 hrs on 19870401]
04273>       [METOUT=  2   (1=imperial, 2=metric output)]
04274>       [NSTORM=  0 ]
04275>       [NRUN  = 1987 ]
04276> #*************************************************************************
04277> #  SWMHYMO  / INPUT DATA FILE
04278> #*************************************************************************
04279> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
04280> #  Date       : 04-28-2021
04281> #  Modeller   : [J.B]
04282> #  Company    : JFSAinc.
04283> #  License #  :  2549237
04284> #*************************************************************************
04285> #*************************************************************************
04286> #*************************************************************************
04287> # Ottawa International Airport - April 1st to October 31st
04288> R1987:C00002------------------------------------------------------------------------------------------------
04289>   *  READ AES DATA
04290>       [Filename  = YOW_1967_2007.123                                    ]
04291>       [Start_date= 1987.0401: End_date= 1987.1031]
04292>       [DT= 60.min: Length= 5136.hrs: WetHrs=  405: DryHrs= 4731: PTOT= 564.50)
04293>       Maximum average rainfall intensities over
04294>         1 hr   2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
04295>        20.00    13.90    14.03     7.05     4.87     2.46     1.84     1.40      .93     mm/hr
04296>        20.00    27.80    42.10    42.30    58.40    59.00    66.40    67.00    67.00     mm
04297>      19870724 19870724 19870724 19870724 19870724 19870724 19870725 19870725 19870726  date
04298>       Number of rainfall events per following interevent time
04299>         1 hr   2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
04300>          149      128      112       83       66       48       41       33       20
04301>       Number of events with at least the following durations
04302>         1 hr   2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
04303>          148       79       49       16        3        0        0        0        0
04304> R1987:C00003------------------------------------------------------------------------------------------------
04305>      COMPUTE API
04306>       [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
04307>       [APImax= 75.76: APIavg= 26.32: APImin=  5.88)
04308> R1987:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04309>     CONTINUOUS NASHYD     5.0 01:NORTH-1      34.70     .078 1987.0725_ 0:50  189.83 .336     .000
04310>       [CN= 38.1: N= 3.00: Tp= 4.12]
04311>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
04312>       [InterEventTime=  12.00]
04313> R1987:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04314>     CONTINUOUS NASHYD     5.0 01:NORTH-2      12.44     .084 1987.0724_22:40  190.52 .338     .000
04315>       [CN= 53.0: N= 3.00: Tp= 1.29]
04316>       [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
04317>       [InterEventTime=  12.00]
04318> R1987:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04319>     CONTINUOUS NASHYD     5.0 01:HWY-1         2.36     .038 1987.0724_15:40  194.66 .345     .000
04320>       [CN= 81.7: N= 3.00: Tp= 1.21]
```

```
04321>       [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
04322>       [InterEventTime=  12.00]
04323> R1987:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04324>     ADD HYD              5.0 02:NORTH-1        34.70     .078 1987.0725_ 0:50  189.83  n/a     .000
04325>                    +     5.0 02:NORTH-2        12.44     .084 1987.0724_22:40  190.52  n/a     .000
04326>                    +     5.0 02:HWY-1           2.36     .038 1987.0724_15:40  194.66  n/a     .000
04327>                SUM=      5.0 01:J1             49.51     .176 1987.0724_22:45  190.23  n/a     .000
04328> R1987:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04329>     ROUTE CHANNEL    ->     5.0 02:J1             49.51     .176 1987.0724_22:45  190.23  n/a     .000
04330>       [RDT= 5.00] out<-     5.0 01:R1             49.51     .173 1987.0724_23:00  190.23  n/a     .000
04331>       [L/S/n=  478./ .440/.035]
04332>       [Vmax=  .462:Dmax=  .211]
04333> R1987:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04334>     CONTINUOUS NASHYD      5.0 01:INT-1          4.39     .031 1987.0724_16:05  191.01 .338     .000
04335>       [CN= 60.4: N= 3.00: Tp= 1.66]
04336>       [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
04337>       [InterEventTime=  12.00]
04338> R1987:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04339>     CONTINUOUS NASHYD      5.0 01:INT-2          3.61     .025 1987.0724_22:20  190.21 .337     .000
04340>       [CN= 47.4: N= 3.00: Tp=  .95]
04341>       [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
04342>       [InterEventTime=  12.00]
04343> R1987:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04344>     CONTINUOUS NASHYD      5.0 01:A3A            3.84     .028 1987.0724_15:55  190.87 .338     .000
04345>       [CN= 58.4: N= 3.00: Tp= 1.46]
04346>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
04347>       [InterEventTime=  12.00]
04348> R1987:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04349>     CONTINUOUS NASHYD      5.0 01:A3B            5.29     .027 1987.0724_22:40  189.99 .337     .000
04350>       [CN= 42.6: N= 3.00: Tp= 1.26]
04351>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
04352>       [InterEventTime=  12.00]
04353> R1987:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04354>     CONTINUOUS NASHYD      5.0 01:A3C            1.21     .006 1987.0724_22:20  189.78 .336     .000
04355>       [CN= 37.8: N= 3.00: Tp=  .87]
04356>       [IaREC= 6.00: SMIN=179.29: SMAX=******: SK= .030]
04357>       [InterEventTime=  12.00]
04358> R1987:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04359>     ROUTE CHANNEL    ->     5.0 02:A3C            1.21     .006 1987.0724_22:20  189.78  n/a     .000
04360>       [RDT= 5.00] out<-     5.0 01:A3C-R          1.21     .005 1987.0724_22:55  189.78  n/a     .000
04361>       [L/S/n=  500./ .140/.035]
04362>       [Vmax=  .104:Dmax=  .054]
04363> R1987:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04364>     CONTINUOUS NASHYD      5.0 01:INT-3          5.71     .056 1987.0724_15:30  190.87 .338     .000
04365>       [CN= 58.5: N= 3.00: Tp=  .89]
04366>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
04367>       [InterEventTime=  12.00]
04368> R1987:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04369>     ADD HYD              5.0 02:R1             49.51     .173 1987.0724_23:00  190.23  n/a     .000
04370>                    +     5.0 02:INT-1          4.39     .031 1987.0724_16:05  191.01  n/a     .000
04371>                    +     5.0 02:INT-2          3.61     .025 1987.0724_22:20  190.21  n/a     .000
04372>                    +     5.0 02:INT-3          5.71     .056 1987.0724_15:30  190.87  n/a     .000
04373>                    +     5.0 02:A3A            3.84     .028 1987.0724_15:55  190.87  n/a     .000
04374>                    +     5.0 02:A3B            5.29     .027 1987.0724_22:40  189.99  n/a     .000
04375>                    +     5.0 02:A3C-R          1.21     .005 1987.0724_22:55  189.78  n/a     .000
04376>                SUM=      5.0 01:J2             73.56    .330 1987.0724_22:40  190.34  n/a     .000
04377> R1987:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04378>     ROUTE CHANNEL    ->     5.0 02:J2             73.56    .330 1987.0724_22:40  190.34  n/a     .000
04379>       [RDT= 5.00] out<-     5.0 01:R2             73.56    .327 1987.0724_22:50  190.33  n/a     .000
04380>       [L/S/n=  359./ .560/.035]
04381>       [Vmax=  .543:Dmax=  .175]
04382> R1987:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04383>     CONTINUOUS NASHYD      5.0 01:A1A            21.43     .073 1987.0724_23:00  189.73 .336     .000
04384>       [CN= 36.1: N= 3.00: Tp= 1.68]
04385>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
04386>       [InterEventTime=  12.00]
04387> R1987:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04388>     CONTINUOUS NASHYD      5.0 01:A1B            4.70      .020 1987.0724_23:00  190.04 .337     .000
04389>       [CN= 44.6: N= 3.00: Tp= 1.72]
04390>       [IaREC= 6.00: SMIN=134.47: SMAX=896.47: SK= .030]
04391>       [InterEventTime=  12.00]
04392> R1987:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04393>     CONTINUOUS NASHYD      5.0 01:A2             9.14      .104 1987.0724_15:40  191.73 .340     .000
04394>       [CN= 68.4: N= 3.00: Tp= 1.12]
04395>       [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
04396>       [InterEventTime=  12.00]
04397> R1987:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04398>     ADD HYD              5.0 02:R2             73.56     .327 1987.0724_22:50  190.33  n/a     .000
04399>                    +     5.0 02:A1A            21.43     .073 1987.0724_23:00  189.73  n/a     .000
04400>                    +     5.0 02:A1B            4.70      .020 1987.0724_23:00  190.04  n/a     .000
04401>                    +     5.0 02:A2             9.14      .104 1987.0724_15:40  191.74  n/a     .000
04402>                SUM=      5.0 01:J3             108.84    .510 1987.0724_22:45  190.32  n/a     .000
04403> R1987:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04404>     ROUTE CHANNEL    ->     5.0 02:J3             108.84    .510 1987.0724_22:45  190.32  n/a     .000
04405>       [RDT= 5.00] out<-     5.0 01:R3             108.84    .500 1987.0724_23:00  190.32  n/a     .000
04406>       [L/S/n=  396./ .305/.035]
04407>       [Vmax=  .428:Dmax=  .334]
04408> R1987:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04409>     CONTINUOUS NASHYD      5.0 01:SOUTH-1        20.21     .075 1987.0724_22:45  189.68 .336     .000
04410>       [CN= 35.5: N= 3.00: Tp= 1.40]
04411>       [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
04412>       [InterEventTime=  12.00]
04413> R1987:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04414>     ADD HYD              5.0 02:R3             108.84    .500 1987.0724_23:00  190.32  n/a     .000
04415>                    +     5.0 02:SOUTH-1        20.21     .075 1987.0724_22:45  189.68  n/a     .000
04416>                SUM=      5.0 01:J4             129.05    .573 1987.0724_22:55  190.22  n/a     .000
04417> R1987:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04418>     ROUTE CHANNEL    ->     5.0 02:J4             129.05    .573 1987.0724_22:55  190.22  n/a     .000
04419>       [RDT= 5.00] out<-     5.0 01:R4             129.05    .565 1987.0724_23:10  190.22  n/a     .000
04420>       [L/S/n=  482./ .410/.035]
04421>       [Vmax=  .576:Dmax=  .330]
04422> R1987:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04423>     CONTINUOUS NASHYD      5.0 01:SOUTH-2        11.61     .056 1987.0724_22:25  189.73 .336     .000
04424>       [CN= 36.7: N= 3.00: Tp=  .96]
04425>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
04426>       [InterEventTime=  12.00]
04427> R1987:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04428>     ADD HYD              5.0 02:R4             129.05    .565 1987.0724_23:10  190.22  n/a     .000
04429>                    +     5.0 02:SOUTH-2        11.61     .056 1987.0724_22:25  189.73  n/a     .000
04430>                SUM=      5.0 01:J5             140.66    .606 1987.0724_23:05  190.18  n/a     .000
04431> R1987:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04432>     ROUTE CHANNEL    ->     5.0 02:J5             140.66    .606 1987.0724_23:05  190.18  n/a     .000
04433>       [RDT= 5.00] out<-     5.0 01:R5             140.66    .605 1987.0724_23:10  190.18  n/a     .000
04434>       [L/S/n=  181./ .500/.035]
04435>       [Vmax=  .546:Dmax=  .293]
04436> R1987:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04437>     CONTINUOUS NASHYD      5.0 01:SOUTH-3         7.98     .050 1987.0724_22:20  189.99 .337     .000
04438>       [CN= 42.6: N= 3.00: Tp=  .89]
04439>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
04440>       [InterEventTime=  12.00]
04441> R1987:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04442>     ADD HYD              5.0 02:R5             140.66    .605 1987.0724_23:10  190.18  n/a     .000
04443>                    +     5.0 02:SOUTH-3         7.98     .050 1987.0724_22:20  189.99  n/a     .000
04444>                SUM=      5.0 01:J6             148.64    .639 1987.0724_23:05  190.17  n/a     .000
04445> R1987:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04446>     SAVE HYD             5.0 01:J6             148.64    .639 1987.0724_23:05  190.17  n/a     .000
04447>        fname :J6.1987
04448>        remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
04449> R1987:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04450>     ROUTE CHANNEL    ->     5.0 02:J6             148.64    .639 1987.0724_23:05  190.17  n/a     .000
04451>       [RDT= 5.00] out<-     5.0 01:R6             148.64    .635 1987.0724_23:10  190.17  n/a     .000
04452>       [L/S/n=  323./ .440/.035]
04453>       [Vmax=  .603:Dmax=  .338]
04454> R1987:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04455>     CONTINUOUS NASHYD      5.0 01:SOUTH-4        14.99     .069 1987.0724_22:35  189.83 .336     .000
04456>       [CN= 39.5: N= 3.00: Tp= 1.23]
04457>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
04458>       [InterEventTime=  12.00]
04459> R1987:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04460>     ADD HYD              5.0 02:R6             148.64    .635 1987.0724_23:10  190.17  n/a     .000
04461>                    +     5.0 02:SOUTH-4        14.99     .069 1987.0724_22:35  189.83  n/a     .000
04462>                SUM=      5.0 01:Total          163.63    .696 1987.0724_23:10  190.14  n/a     .000
04463> |=====================================================================
04464> |=====================================================================
04465> ######################################################################
04466> # CONTINUOUS RAINFALL DATA
04467> ######################################################################
04468> *********************************************************************
04469> # STORMS
04470> *********************************************************************
04471>   ** END OF RUN : 1987
04472>
04473> ***************************************************************************************************
04474>
04475>
04476>
04477>
04478>  RUN#:COMMAND#
04479> R1988:C00001------------------------------------------------------------------------------------------
04480>     START
04481>       [TZERO =     .00 hrs on 19880401]
04482>       [METOUT=   2    (1=imperial, 2=metric output)]
04483>       [NSTORM=   0 ]
04484>       [NRUN  = 1988 ]
04485> #*************************************************************************
04486> #  SWMHYMO  / INPUT DATA FILE
04487> #*************************************************************************
04488> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
04489> #  Date       : 04-28-2021
04490> #  Modeller   : [J.B]
04491> #  Company    : JFSAinc.
04492> #  License #  : 2549237
04493> #*************************************************************************
04494> #*************************************************************************
04495> #*************************************************************************
04496> # Ottawa International Airport - April 1st to October 31st
04497> R1988:C00002------------------------------------------------------------------------------------------
04498>   *  READ AES DATA
04499>       [Filename  = YOW_1967_2007.123                                    ]

04501>       [Start_date= 1988.0401: End_date= 1988.1031]
04502>       (DT= 60.min: Length= 5136.hrs: WetHrs=  397: DryHrs= 4739: PTOT= 555.40)
04503>       Maximum average rainfall intensities over
04504>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
04505>        25.50    18.20    12.77     7.37     3.78     1.91     1.27      .95      .94    mm/hr
04506>        25.50    36.40    38.30    44.20    45.40    45.80    45.80    45.80    67.40    mm
04507>       19880917 19880726 19880625 19880625 19880625 19880625 19880625 19880626 19880625  date
04508>       Number of rainfall events per following interevent time
04509>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
04510>          140      113       90       65       54       45       40       34       20
04511>       Number of events with at least the following durations
04512>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
04513>          139       87       61       14        3        0        0        0        0
04514> R1988:C00003------------------------------------------------------------------------------------------
04515>       COMPUTE API
04516>       [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
04517>       [APImax= 66.04: APImin= 26.21: APImin= 1.99]
04518> R1988:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04519>     CONTINUOUS NASHYD      5.0 01:NORTH-1        34.70     .067 1988.0625_16:35  190.33 .343     .000
04520>       [CN= 38.1: N= 3.00: Tp= 1.12]
04521>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
04522>       [InterEventTime=  12.00]
04523> R1988:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04524>     CONTINUOUS NASHYD      5.0 01:NORTH-2        12.44     .102 1988.0625_13:50  191.11 .344     .000
04525>       [CN= 53.0: N= 3.00: Tp= 1.29]
04526>       [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
04527>       [InterEventTime=  12.00]
04528> R1988:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04529>     CONTINUOUS NASHYD      5.0 01:HWY-1           2.36     .047 1988.0625_13:45  194.68 .351     .000
04530>       [CN= 81.7: N= 3.00: Tp= 1.21]
04531>       [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
04532>       [InterEventTime=  12.00]
04533> R1988:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04534>     ADD HYD              5.0 02:NORTH-1        34.70     .067 1988.0625_16:35  190.33  n/a     .000
04535>                    +     5.0 02:NORTH-2        12.44     .102 1988.0625_13:50  191.11  n/a     .000
04536>                    +     5.0 02:HWY-1           2.36     .047 1988.0625_13:45  194.68  n/a     .000
04537>                SUM=      5.0 01:J1             49.51     .185 1988.0625_14:00  190.73  n/a     .000
04538> R1988:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04539>     ROUTE CHANNEL    ->     5.0 02:J1             49.51     .185 1988.0625_14:00  190.73  n/a     .000
04540> *   [RDT= 5.00] out<-     5.0 01:R1             49.51     .181 1988.0625_14:15  190.73  n/a     .000
04541>       [L/S/n=  478./ .440/.035]
04542>       [Vmax=  .467:Dmax=  .215]
04543> R1988:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04544>     CONTINUOUS NASHYD      5.0 01:INT-1          4.39     .037 1988.0625_14:10  191.68 .345     .000
04545>       [CN= 60.4: N= 3.00: Tp= 1.66]
04546>       [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
04547>       [InterEventTime=  12.00]
04548> R1988:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04549>     CONTINUOUS NASHYD      5.0 01:INT-2          3.61     .031 1988.0625_13:35  190.76 .343     .000
04550>       [CN= 47.4: N= 3.00: Tp=  .95]
04551>       [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
04552>       [InterEventTime=  12.00]
04553> R1988:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04554>     CONTINUOUS NASHYD      5.0 01:A3A            3.84     .034 1988.0625_14:00  191.51 .345     .000
04555>       [CN= 58.4: N= 3.00: Tp= 1.46]
04556>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
04557>       [InterEventTime=  12.00]
04558> R1988:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04559>     CONTINUOUS NASHYD      5.0 01:A3B            5.29     .031 1988.0625_13:50  190.51 .343     .000
04560>       [CN= 42.6: N= 3.00: Tp= 1.26]
04561>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
04562>       [InterEventTime=  12.00]
04563> R1988:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04564>     CONTINUOUS NASHYD      5.0 01:A3C            1.21     .008 1988.0625_13:30  190.27 .343     .000
04565>       [CN= 37.8: N= 3.00: Tp=  .87]
04566>       [IaREC= 6.00: SMIN=179.29: SMAX=******: SK= .030]
04567>       [InterEventTime=  12.00]
04568> R1988:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04569>     ROUTE CHANNEL    ->     5.0 02:A3C            1.21     .008 1988.0625_13:30  190.27  n/a     .000
04570> *   [RDT= 5.00] out<-     5.0 01:A3C-R          1.21     .005 1988.0625_14:10  190.27  n/a     .000
04571>       [L/S/n=  500./ .140/.035]
04572>       [Vmax=  .110:Dmax=  .058]
04573> R1988:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04574>     CONTINUOUS NASHYD      5.0 01:INT-3          5.71     .072 1988.0625_13:30  191.51 .345     .000
04575>       [CN= 58.5: N= 3.00: Tp=  .89]
04576>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
04577>       [InterEventTime=  12.00]
04578> R1988:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04579>     ADD HYD              5.0 02:R1             49.51     .181 1988.0625_14:15  190.73  n/a     .000
04580>                    +     5.0 02:INT-1          4.39     .037 1988.0625_14:10  191.68  n/a     .000
04581>                    +     5.0 02:INT-2          3.61     .031 1988.0625_13:35  190.76  n/a     .000
04582>                    +     5.0 02:INT-3          5.71     .072 1988.0625_13:30  191.51  n/a     .000
04583>                    +     5.0 02:A3A            3.84     .034 1988.0625_14:00  191.51  n/a     .000
04584>                    +     5.0 02:A3B            5.29     .031 1988.0625_13:50  190.51  n/a     .000
04585>                    +     5.0 02:A3C-R          1.21     .005 1988.0625_14:10  190.27  n/a     .000
04586>                SUM=      5.0 01:J2             73.56    .371 1988.0625_13:55  190.87  n/a     .000
04587> R1988:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04588>     ROUTE CHANNEL    ->     5.0 02:J2             73.56    .371 1988.0625_13:55  190.87  n/a     .000
04589> *   [RDT= 5.00] out<-     5.0 01:R2             73.56    .368 1988.0625_14:00  190.87  n/a     .000
04590>       [L/S/n=  359./ .560/.035]
04591>       [Vmax=  .569:Dmax=  .186]
04592> R1988:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04593>     CONTINUOUS NASHYD      5.0 01:A1A            21.43     .079 1988.0625_14:15  190.22 .342     .000
04594>       [CN= 36.1: N= 3.00: Tp= 1.68]
04595>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
04596>       [InterEventTime=  12.00]
04597> R1988:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04598>     CONTINUOUS NASHYD      5.0 01:A1B            4.70      .023 1988.0625_14:15  190.57 .343     .000
04599>       [CN= 44.6: N= 3.00: Tp= 1.72]
04600>       [IaREC= 6.00: SMIN=134.47: SMAX=896.47: SK= .030]
04601>       [InterEventTime=  12.00]
04602> R1988:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04603>     CONTINUOUS NASHYD      5.0 01:A2             9.14      .130 1988.0625_13:40  192.46 .347     .000
04604>       [CN= 68.4: N= 3.00: Tp= 1.12]
04605>       [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
04606>       [InterEventTime=  12.00]
04607> R1988:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04608>     ADD HYD              5.0 02:R2             73.56     .368 1988.0625_14:00  190.87  n/a     .000
04609>                    +     5.0 02:A1A            21.43     .079 1988.0625_14:15  190.22  n/a     .000
04610>                    +     5.0 02:A1B            4.70      .023 1988.0625_14:15  190.57  n/a     .000
04611>                    +     5.0 02:A2             9.14      .130 1988.0625_13:40  192.46  n/a     .000
04612>                SUM=      5.0 01:J3             108.84    .591 1988.0625_14:00  190.86  n/a     .000
04613> R1988:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04614>     ROUTE CHANNEL    ->     5.0 02:J3             108.84    .591 1988.0625_14:00  190.86  n/a     .000
04615> *   [RDT= 5.00] out<-     5.0 01:R3             108.84    .574 1988.0625_14:15  190.86  n/a     .000
04616>       [L/S/n=  396./ .305/.035]
04617>       [Vmax=  .439:Dmax=  .350]
04618> R1988:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04619>     CONTINUOUS NASHYD      5.0 01:SOUTH-1        20.21     .081 1988.0625_14:00  190.16 .342     .000
04620>       [CN= 35.5: N= 3.00: Tp= 1.40]
04621>       [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
04622>       [InterEventTime=  12.00]
04623> R1988:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04624>     ADD HYD              5.0 02:R3             108.84    .574 1988.0625_14:15  190.86  n/a     .000
04625>                    +     5.0 02:SOUTH-1        20.21     .081 1988.0625_14:00  190.16  n/a     .000
04626>                SUM=      5.0 01:J4             129.05    .654 1988.0625_14:10  190.75  n/a     .000
04627> R1988:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04628>     ROUTE CHANNEL    ->     5.0 02:J4             129.05    .654 1988.0625_14:10  190.75  n/a     .000
04629> *   [RDT= 5.00] out<-     5.0 01:R4             129.05    .641 1988.0625_14:25  190.75  n/a     .000
04630>       [L/S/n=  482./ .410/.035]
04631>       [Vmax=  .588:Dmax=  .345]
04632> R1988:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04633>     CONTINUOUS NASHYD      5.0 01:SOUTH-2        11.61     .065 1988.0625_13:35  190.22 .342     .000
04634>       [CN= 36.7: N= 3.00: Tp=  .96]
04635>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
04636>       [InterEventTime=  12.00]
04637> R1988:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04638>     ADD HYD              5.0 02:R4             129.05    .641 1988.0625_14:25  190.75  n/a     .000
04639>                    +     5.0 02:SOUTH-2        11.61     .065 1988.0625_13:35  190.22  n/a     .000
04640>                SUM=      5.0 01:J5             140.66    .686 1988.0625_14:20  190.71  n/a     .000
04641> R1988:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04642>     ROUTE CHANNEL    ->     5.0 02:J5             140.66    .686 1988.0625_14:20  190.71  n/a     .000
04643> *   [RDT= 5.00] out<-     5.0 01:R5             140.66    .685 1988.0625_14:25  190.71  n/a     .000
04644>       [L/S/n=  181./ .500/.035]
04645>       [Vmax=  .565:Dmax=  .307]
04646> R1988:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04647>     CONTINUOUS NASHYD      5.0 01:SOUTH-3         7.98     .060 1988.0625_13:35  190.51 .343     .000
04648>       [CN= 42.6: N= 3.00: Tp=  .89]
04649>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
04650>       [InterEventTime=  12.00]
04651> R1988:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04652>     ADD HYD              5.0 02:R5             140.66    .685 1988.0625_14:25  190.71  n/a     .000
04653>                    +     5.0 02:SOUTH-3         7.98     .060 1988.0625_13:35  190.51  n/a     .000
04654>                SUM=      5.0 01:J6             148.64    .722 1988.0625_14:20  190.70  n/a     .000
04655> R1988:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04656>     SAVE HYD             5.0 01:J6             148.64    .722 1988.0625_14:20  190.70  n/a     .000
04657>        fname :J6.1988
04658>        remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
04659> R1988:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04660>     ROUTE CHANNEL    ->     5.0 02:J6             148.64    .722 1988.0625_14:20  190.70  n/a     .000
04661> *   [RDT= 5.00] out<-     5.0 01:R6             148.64    .716 1988.0625_14:25  190.70  n/a     .000
04662>       [L/S/n=  323./ .440/.035]
04663>       [Vmax=  .616:Dmax=  .353]
04664> R1988:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04665>     CONTINUOUS NASHYD      5.0 01:SOUTH-4        14.99     .078 1988.0625_13:50  190.33 .343     .000
04666>       [CN= 39.5: N= 3.00: Tp= 1.23]
04667>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
04668>       [InterEventTime=  12.00]
04669> R1988:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04670>     ADD HYD              5.0 02:R6             148.64    .716 1988.0625_14:25  190.70  n/a     .000
04671>                    +     5.0 02:SOUTH-4        14.99     .078 1988.0625_13:50  190.33  n/a     .000
04672>                SUM=      5.0 01:Total          163.63    .783 1988.0625_14:25  190.66  n/a     .000
04673> |=====================================================================
04674> |=====================================================================
04675> ######################################################################
04676> # CONTINUOUS RAINFALL DATA
04677> ######################################################################
04678> *********************************************************************
04679> # STORMS
04680> *********************************************************************
```

```
04681>   ** END OF RUN : 1988
04682>
04683> ************************************************************************************************
04684>
04685>
04686>
04687>
04688>
04689>  RUN#:COMMAND#
04690> R1989:C00001-------------------------------------------------------------------------------------
04691>       START
04692>       [TZERO =      .00 hrs on 19890401]
04693>       [METOUT=   2     (1=imperial, 2=metric output)]
04694>       [NSTORM=   0 ]
04695>       [NRUN  = 1989 ]
04696> #*********************************************************************
04697> #  SWMHYMO  / INPUT DATA FILE
04698> #*********************************************************************
04699> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
04700> #  Date        : 04-28-2021
04701> #  Modeller    : [J.B]
04702> #  Company     : JFSAinc.
04703> #  License #   : 2549237
04704> #*********************************************************************
04705> #*********************************************************************
04706> #*********************************************************************
04707> # Ottawa International Airport - April 1st to October 31st
04708> R1989:C00002-------------------------------------------------------------------------------------
04709>   *  READ AES DATA
04710>       [Filename  = YOW_1967_2007.123                                    ]
04711>       [Start_date= 1989.0401: End_date= 1989.1031]
04712>       [DT= 60.min: Length= 5136.hrs: WetHrs=  350: DryHrs= 4786: PTOT= 458.80]
04713>       Maximum average rainfall intensities over
04714>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
04715>        22.70    12.60     8.93     5.75     3.03     1.69     1.14      .86      .59    mm/hr
04716>        22.70    25.20    26.80    34.50    36.30    40.60    40.90    41.30    42.50    mm
04717>       19890727 19890727 19890727 19890727 19890727 19891020 19891021 19891021 19891022  date
04718>       Number of rainfall events per following interevent time
04719>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
04720>          126      105       89       73       56       42       35       30       23
04721>       Number of events with at least the following durations
04722>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
04723>          126       69       45       15        3        0        0        0        0
04724> R1989:C00003-------------------------------------------------------------------------------------
04725>       COMPUTE API
04726>       [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
04727>       [APImax= 55.10: APIavg= 21.49: APImin=  4.33]
04728> R1989:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04729>     CONTINUOUS NASHYD     5.0 01:NORTH-1       34.70     .029 1989.0727_19:20  132.39 .289     .000
04730>       [CN= 38.1: N= 3.00: Tp= 4.12]
04731>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
04732>       [InterEventTime=  12.00]
04733> R1989:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04734>     CONTINUOUS NASHYD     5.0 01:NORTH-2       12.44     .039 1989.0727_16:20  133.65 .291     .000
04735>       [CN= 53.0: N= 3.00: Tp= 1.29]
04736>       [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
04737>       [InterEventTime=  12.00]
04738> R1989:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04739>     CONTINUOUS NASHYD     5.0 01:HWY-1          2.36     .021 1989.0727_16:10  140.45 .306     .000
04740>       [CN= 81.7: N= 3.00: Tp= 1.21]
04741>       [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
04742>       [InterEventTime=  12.00]
04743> R1989:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04744>     ADD HYD               5.0 02:NORTH-1       34.70     .029 1989.0727_19:20  132.39  n/a     .000
04745>                     +     5.0 02:NORTH-2       12.44     .039 1989.0727_16:20  133.65  n/a     .000
04746>                     +     5.0 02:HWY-1          2.36     .021 1989.0727_16:10  140.45  n/a     .000
04747>                   SUM=    5.0 01:J1            49.51     .076 1989.0727_16:30  133.09  n/a     .000
04748> R1989:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04749>     ROUTE CHANNEL   ->    5.0 02:J1            49.51     .076 1989.0727_16:30  133.09  n/a     .000
04750> *   [RDT= 5.00] out<-     5.0 01:R1            49.51     .074 1989.0727_16:45  133.09  n/a     .000
04751>       [L/S/n=  478./ .440/.035]
04752>       [Vmax=  .364:Dmax=  .148]
04753> R1989:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04754>     CONTINUOUS NASHYD     5.0 01:INT-1          4.39     .015 1989.0727_16:45  134.60 .293     .000
04755>       [CN= 60.4: N= 3.00: Tp= 1.66]
04756>       [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
04757>       [InterEventTime=  12.00]
04758> R1989:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04759>     CONTINUOUS NASHYD     5.0 01:INT-2          3.61     .011 1989.0727_15:50  133.09 .290     .000
04760>       [CN= 47.4: N= 3.00: Tp=  .95]
04761>       [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
04762>       [InterEventTime=  12.00]
04763> R1989:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04764>     CONTINUOUS NASHYD     5.0 01:A3A            3.84     .013 1989.0727_16:30  134.27 .293     .000
04765>       [CN= 58.4: N= 3.00: Tp= 1.46]
04766>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
04767>       [InterEventTime=  12.00]
04768> R1989:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04769>     CONTINUOUS NASHYD     5.0 01:A3B            5.29     .012 1989.0727_16:20  132.68 .289     .000
04770>       [CN= 42.6: N= 3.00: Tp= 1.26]
04771>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
04772>       [InterEventTime=  12.00]
04773> R1989:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04774>     CONTINUOUS NASHYD     5.0 01:A3C            1.21     .003 1989.0727_15:45  132.29 .288     .000
04775>       [CN= 37.8: N= 3.00: Tp=  .87]
04776>       [IaREC= 6.00: SMIN=179.29: SMAX=******: SK= .030]
04777>       [InterEventTime=  12.00]
04778> R1989:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04779>     ROUTE CHANNEL   ->    5.0 02:A3C            1.21     .003 1989.0727_15:45  132.29  n/a     .000
04780> *   [RDT= 5.00] out<-     5.0 01:A3C-R          1.21     .001 1989.0727_17:05  132.29  n/a     .000
04781>       [L/S/n=  500./ .140/.035]
04782>       [Vmax=  .074:Dmax=  .038]
04783> R1989:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04784>     CONTINUOUS NASHYD     5.0 01:INT-3          5.71     .028 1989.0727_15:45  134.28 .293     .000
04785>       [CN= 58.5: N= 3.00: Tp=  .89]
04786>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
04787>       [InterEventTime=  12.00]
04788> R1989:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04789>     ADD HYD              49.51     .074 1989.0727_16:45  133.09  n/a     .000
04790>                     +     5.0 02:INT-1          4.39     .015 1989.0727_16:45  134.60  n/a     .000
04791>                     +     5.0 02:INT-2          3.61     .011 1989.0727_15:50  133.09  n/a     .000
04792>                     +     5.0 02:INT-3          5.71     .028 1989.0727_15:45  134.28  n/a     .000
04793>                     +     5.0 02:A3A            3.84     .013 1989.0727_16:30  134.27  n/a     .000
04794>                     +     5.0 02:A3B            5.29     .012 1989.0727_16:20  132.68  n/a     .000
04795>                     +     5.0 02:A3C-R          1.21     .001 1989.0727_17:05  132.29  n/a     .000
04796>                   SUM=    5.0 01:J2            73.56     .145 1989.0727_16:25  133.29  n/a     .000
04797> R1989:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04798>     ROUTE CHANNEL   ->    5.0 02:J2            73.56     .145 1989.0727_16:25  133.29  n/a     .000
04799> *   [RDT= 5.00] out<-     5.0 01:R2            73.56     .144 1989.0727_16:40  133.29  n/a     .000
04800>       [L/S/n=  359./ .560/.035]
04801>       [Vmax=  .409:Dmax=  .118]
04802> R1989:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04803>     CONTINUOUS NASHYD     5.0 01:A1A           21.43     .030 1989.0727_16:50  132.20 .288     .000
04804>       [CN= 36.1: N= 3.00: Tp= 1.68]
04805>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
04806>       [InterEventTime=  12.00]
04807> R1989:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04808>     CONTINUOUS NASHYD     5.0 01:A1B            4.70     .009 1989.0727_16:50  132.78 .289     .000
04809>       [CN= 44.6: N= 3.00: Tp= 1.72]
04810>       [IaREC= 6.00: SMIN=134.47: SMAX=896.47: SK= .030]
04811>       [InterEventTime=  12.00]
04812> R1989:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04813>     CONTINUOUS NASHYD     5.0 01:A2             9.14     .053 1989.0727_16:05  136.02 .296     .000
04814>       [CN= 68.4: N= 3.00: Tp= 1.12]
04815>       [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
04816>       [InterEventTime=  12.00]
04817> R1989:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04818>     ADD HYD              73.56     .144 1989.0727_16:40  133.29  n/a     .000
04819>                     +     5.0 02:A1A           21.43     .030 1989.0727_16:50  132.20  n/a     .000
04820>                     +     5.0 02:A1B            4.70     .009 1989.0727_16:50  132.78  n/a     .000
04821>                     +     5.0 02:A2             9.14     .053 1989.0727_16:05  136.02  n/a     .000
04822>                   SUM=    5.0 01:J3           108.84     .231 1989.0727_16:30  133.28  n/a     .000
04823> R1989:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04824>     ROUTE CHANNEL   ->    5.0 02:J3           108.84     .231 1989.0727_16:30  133.28  n/a     .000
04825> *   [RDT= 5.00] out<-     5.0 01:R3           108.84     .226 1989.0727_16:50  133.28  n/a     .000
04826>       [L/S/n=  396./ .305/.035]
04827>       [Vmax=  .386:Dmax=  .244]
04828> R1989:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04829>     CONTINUOUS NASHYD     5.0 01:SOUTH-1       20.21     .030 1989.0727_16:30  132.11 .288     .000
04830>       [CN= 35.5: N= 3.00: Tp= 1.40]
04831>       [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
04832>       [InterEventTime=  12.00]
04833> R1989:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04834>     ADD HYD              108.84     .226 1989.0727_16:50  133.28  n/a     .000
04835>                     +     5.0 02:SOUTH-1       20.21     .030 1989.0727_16:30  132.11  n/a     .000
04836>                   SUM=    5.0 01:J4           129.05     .255 1989.0727_16:45  133.10  n/a     .000
04837> R1989:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04838>     ROUTE CHANNEL   ->    5.0 02:J4           129.05     .255 1989.0727_16:45  133.10  n/a     .000
04839> *   [RDT= 5.00] out<-     5.0 01:R4           129.05     .252 1989.0727_17:00  133.10  n/a     .000
04840>       [L/S/n=  482./ .410/.035]
04841>       [Vmax=  .482:Dmax=  .236]
04842> R1989:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04843>     CONTINUOUS NASHYD     5.0 01:SOUTH-2       11.61     .024 1989.0727_15:50  132.20 .288     .000
04844>       [CN= 36.7: N= 3.00: Tp=  .96]
04845>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
04846>       [InterEventTime=  12.00]
04847> R1989:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04848>     ADD HYD              129.05     .252 1989.0727_17:00  133.10  n/a     .000
04849>                     +     5.0 02:SOUTH-2       11.61     .024 1989.0727_15:50  132.20  n/a     .000
04850>                   SUM=    5.0 01:J5           140.66     .268 1989.0727_16:55  133.03  n/a     .000
04851> R1989:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04852>     ROUTE CHANNEL   ->    5.0 02:J5           140.66     .268 1989.0727_16:55  133.03  n/a     .000
04853> *   [RDT= 5.00] out<-     5.0 01:R5           140.66     .268 1989.0727_17:00  133.03  n/a     .000
04854>       [L/S/n=  181./ .500/.035]
04855>       [Vmax=  .478:Dmax=  .232]
04856> R1989:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04857>     CONTINUOUS NASHYD     5.0 01:SOUTH-3        7.98     .022 1989.0727_15:45  132.68 .289     .000
04858>       [CN= 42.6: N= 3.00: Tp=  .89]
04859>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
04860>       [InterEventTime=  12.00]
04861> R1989:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04862>     ADD HYD               5.0 02:R5           140.66     .268 1989.0727_17:00  133.03  n/a     .000
04863>                     +     5.0 02:SOUTH-3        7.98     .022 1989.0727_15:45  132.68  n/a     .000
04864>                   SUM=    5.0 01:J6           148.64     .281 1989.0727_16:55  133.01  n/a     .000
04865> R1989:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04866>     SAVE HYD              5.0 01:J6           148.64     .281 1989.0727_16:55  133.01  n/a     .000
04867>       fname :J6.1989
04868>       remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
04869> R1989:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04870>     ROUTE CHANNEL   ->    5.0 02:J6           148.64     .281 1989.0727_16:55  133.01  n/a     .000
04871> *   [RDT= 5.00] out<-     5.0 01:R6           148.64     .280 1989.0727_17:05  133.01  n/a     .000
04872>       [L/S/n=  323./ .440/.035]
04873>       [Vmax=  .512:Dmax=  .243]
04874> R1989:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04875>     CONTINUOUS NASHYD     5.0 01:SOUTH-4       14.99     .029 1989.0727_16:15  132.39 .289     .000
04876>       [CN= 39.5: N= 3.00: Tp= 1.23]
04877>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
04878>       [InterEventTime=  12.00]
04879> R1989:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04880>     ADD HYD              148.64     .280 1989.0727_17:05  133.01  n/a     .000
04881>                     +     5.0 02:SOUTH-4       14.99     .029 1989.0727_16:15  132.39  n/a     .000
04882>                   SUM=    5.0 01:Total        163.63     .305 1989.0727_17:00  132.95  n/a     .000
04883> #=====================================================================
04884> #=====================================================================
04885> #####################################################################
04886> # CONTINUOUS RAINFALL DATA
04887> #####################################################################
04888> #*********************************************************************
04889> # STORMS
04890> #*********************************************************************
04891>   ** END OF RUN : 1989
04892>
04893> ************************************************************************************************
04894>
04895>
04896>
04897>
04898>
04899>  RUN#:COMMAND#
04900> R1990:C00001-------------------------------------------------------------------------------------
04901>       START
04902>       [TZERO =      .00 hrs on 19900401]
04903>       [METOUT=   2     (1=imperial, 2=metric output)]
04904>       [NSTORM=   0 ]
04905>       [NRUN  = 1990 ]
04906> #*********************************************************************
04907> #  SWMHYMO  / INPUT DATA FILE
04908> #*********************************************************************
04909> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
04910> #  Date        : 04-28-2021
04911> #  Modeller    : [J.B]
04912> #  Company     : JFSAinc.
04913> #  License #   : 2549237
04914> #*********************************************************************
04915> #*********************************************************************
04916> #*********************************************************************
04917> # Ottawa International Airport - April 1st to October 31st
04918> R1990:C00002-------------------------------------------------------------------------------------
04919>       READ AES DATA
04920>       [Filename  = YOW_1967_2007.123                                    ]
04921>       [Start_date= 1990.0401: End_date= 1990.1031]
04922>       [DT= 60.min: Length= 5136.hrs: WetHrs=  494: DryHrs= 4642: PTOT= 603.10]
04923>       Maximum average rainfall intensities over
04924>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
04925>        20.60    12.25     9.60     5.58     4.43     2.25     1.50     1.23     1.06    mm/hr
04926>        20.60    24.50    28.80    33.50    53.20    54.00    54.00    59.00    76.60    mm
04927>       19900720 19900720 19900720 19900828 19900828 19900720 19900720 19900720 19900723  date
04928>       Number of rainfall events per following interevent time
04929>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
04930>          167      131      116       90       69       50       42       35       23
04931>       Number of events with at least the following durations
04932>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
04933>          166       91       57       23        6        1        0        0        0
04934> R1990:C00003-------------------------------------------------------------------------------------
04935>       COMPUTE API
04936>       [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
04937>       [APImax= 75.10: APIavg= 28.05: APImin=  4.70]
04938> R1990:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04939>     CONTINUOUS NASHYD     5.0 01:NORTH-1       34.70     .075 1990.0720_16:40  242.37 .402     .000
04940>       [CN= 38.1: N= 3.00: Tp= 4.12]
04941>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
04942>       [InterEventTime=  12.00]
04943> R1990:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04944>     CONTINUOUS NASHYD     5.0 01:NORTH-2       12.44     .092 1990.0720_14:20  243.77 .404     .000
04945>       [CN= 53.0: N= 3.00: Tp= 1.29]
04946>       [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
04947>       [InterEventTime=  12.00]
04948> R1990:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04949>     CONTINUOUS NASHYD     5.0 01:HWY-1          2.36     .036 1990.0720_14:10  249.68 .414     .000
04950>       [CN= 81.7: N= 3.00: Tp= 1.21]
04951>       [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
04952>       [InterEventTime=  12.00]
04953> R1990:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04954>     ADD HYD               5.0 02:NORTH-1       34.70     .075 1990.0720_16:40  242.37  n/a     .000
04955>                     +     5.0 02:NORTH-2       12.44     .092 1990.0720_14:20  243.77  n/a     .000
04956>                     +     5.0 02:HWY-1          2.36     .036 1990.0720_14:10  249.68  n/a     .000
04957>                   SUM=    5.0 01:J1            49.51     .180 1990.0720_14:25  243.07  n/a     .000
04958> R1990:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04959>     ROUTE CHANNEL   ->    5.0 02:J1            49.51     .180 1990.0720_14:25  243.07  n/a     .000
04960> *   [RDT= 5.00] out<-     5.0 01:R1            49.51     .178 1990.0720_14:40  243.07  n/a     .000
04961>       [L/S/n=  478./ .440/.035]
04962>       [Vmax=  .464:Dmax=  .212]
04963> R1990:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04964>     CONTINUOUS NASHYD     5.0 01:INT-1          4.39     .034 1990.0720_14:35  244.74 .406     .000
04965>       [CN= 60.4: N= 3.00: Tp= 1.66]
04966>       [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
04967>       [InterEventTime=  12.00]
04968> R1990:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04969>     CONTINUOUS NASHYD     5.0 01:INT-2          3.61     .026 1990.0720_13:50  243.14 .403     .000
04970>       [CN= 47.4: N= 3.00: Tp=  .95]
04971>       [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
04972>       [InterEventTime=  12.00]
04973> R1990:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04974>     CONTINUOUS NASHYD     5.0 01:A3A            3.84     .031 1990.0720_14:25  244.45 .405     .000
04975>       [CN= 58.4: N= 3.00: Tp= 1.46]
04976>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
04977>       [InterEventTime=  12.00]
04978> R1990:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04979>     CONTINUOUS NASHYD     5.0 01:A3B            5.29     .028 1990.0720_14:20  242.69 .402     .000
04980>       [CN= 42.6: N= 3.00: Tp= 1.26]
04981>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
04982>       [InterEventTime=  12.00]
04983> R1990:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04984>     CONTINUOUS NASHYD     5.0 01:A3C            1.21     .006 1990.0720_13:45  242.27 .402     .000
04985>       [CN= 37.8: N= 3.00: Tp=  .87]
04986>       [IaREC= 6.00: SMIN=179.29: SMAX=******: SK= .030]
04987>       [InterEventTime=  12.00]
04988> R1990:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04989>     ROUTE CHANNEL   ->    5.0 02:A3C            1.21     .006 1990.0720_13:45  242.27  n/a     .000
04990> *   [RDT= 5.00] out<-     5.0 01:A3C-R          1.21     .005 1990.0720_14:35  242.27  n/a     .000
04991>       [L/S/n=  500./ .140/.035]
04992>       [Vmax=  .105:Dmax=  .055]
04993> R1990:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04994>     CONTINUOUS NASHYD     5.0 01:INT-3          5.71     .059 1990.0720_13:45  244.45 .405     .000
04995>       [CN= 58.5: N= 3.00: Tp=  .89]
04996>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
04997>       [InterEventTime=  12.00]
04998> R1990:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04999>     ADD HYD              49.51     .178 1990.0720_14:40  243.07  n/a     .000
05000>                     +     5.0 02:INT-1          4.39     .034 1990.0720_14:35  244.74  n/a     .000
05001>                     +     5.0 02:INT-2          3.61     .026 1990.0720_13:50  243.14  n/a     .000
05002>                     +     5.0 02:INT-3          5.71     .059 1990.0720_13:45  244.45  n/a     .000
05003>                     +     5.0 02:A3A            3.84     .031 1990.0720_14:25  244.45  n/a     .000
05004>                     +     5.0 02:A3B            5.29     .028 1990.0720_14:20  242.69  n/a     .000
05005>                     +     5.0 02:A3C-R          1.21     .005 1990.0720_14:35  242.27  n/a     .000
05006>                   SUM=    5.0 01:J2            73.56     .348 1990.0720_14:20  243.31  n/a     .000
05007> R1990:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05008>     ROUTE CHANNEL   ->    5.0 02:J2            73.56     .348 1990.0720_14:20  243.31  n/a     .000
05009> *   [RDT= 5.00] out<-     5.0 01:R2            73.56     .346 1990.0720_14:30  243.31  n/a     .000
05010>       [L/S/n=  359./ .560/.035]
05011>       [Vmax=  .554:Dmax=  .180]
05012> R1990:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05013>     CONTINUOUS NASHYD     5.0 01:A1A           21.43     .078 1990.0720_14:40  242.17 .402     .000
05014>       [CN= 36.1: N= 3.00: Tp= 1.68]
05015>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
05016>       [InterEventTime=  12.00]
05017> R1990:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05018>     CONTINUOUS NASHYD     5.0 01:A1B            4.70     .022 1990.0720_14:40  242.80 .403     .000
05019>       [CN= 44.6: N= 3.00: Tp= 1.72]
05020>       [IaREC= 6.00: SMIN=134.47: SMAX=896.47: SK= .030]
05021>       [InterEventTime=  12.00]
05022> R1990:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05023>     CONTINUOUS NASHYD     5.0 01:A2             9.14     .107 1990.0720_14:05  246.05 .408     .000
05024>       [CN= 68.4: N= 3.00: Tp= 1.12]
05025>       [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
05026>       [InterEventTime=  12.00]
05027> R1990:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05028>     ADD HYD              73.56     .346 1990.0720_14:30  243.31  n/a     .000
05029>                     +     5.0 02:A1A           21.43     .078 1990.0720_14:40  242.17  n/a     .000
05030>                     +     5.0 02:A1B            4.70     .022 1990.0720_14:40  242.80  n/a     .000
05031>                     +     5.0 02:A2             9.14     .107 1990.0720_14:05  246.05  n/a     .000
05032>                   SUM=    5.0 01:J3           108.84     .547 1990.0720_14:25  243.29  n/a     .000
05033> R1990:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05034>     ROUTE CHANNEL   ->    5.0 02:J3           108.84     .547 1990.0720_14:25  243.29  n/a     .000
05035> *   [RDT= 5.00] out<-     5.0 01:R3           108.84     .538 1990.0720_14:40  243.29  n/a     .000
05036>       [L/S/n=  396./ .305/.035]
05037>       [Vmax=  .433:Dmax=  .341]
05038> R1990:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05039>     CONTINUOUS NASHYD     5.0 01:SOUTH-1       20.21     .077 1990.0720_14:25  242.07 .401     .000
05040>       [CN= 35.5: N= 3.00: Tp= 1.40]
```

```
05041>       [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
05042>       [InterEventTime=  12.00]
05043> R1990:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05044>     ADD HYD            5.0 02:R3          108.84     .538 1990.0720_14:40  243.29  n/a     .000
05045>                  +     5.0 02:SOUTH-1      20.21     .077 1990.0720_14:25  242.07  n/a     .000
05046>                SUM=    5.0 01:J4          129.05     .614 1990.0720_14:35  243.10  n/a     .000
05047> R1990:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05048>     ROUTE CHANNEL   ->    5.0 02:J4          129.05     .614 1990.0720_14:35  243.10  n/a     .000
05049> *   [RD= 5.00] out<-     5.0 01:R4          129.05     .606 1990.0720_14:50  243.10  n/a     .000
05050>       [L/S/n=  482./ .410/.035]
05051>       [Vmax=  .582:Dmax=  .337]
05052> R1990:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05053>     CONTINUOUS NASHYD     5.0 01:SOUTH-2      11.61     .056 1990.0720_13:50  242.17 .402     .000
05054>       [CN= 36.7: N= 3.00: Tp=  .96]
05055>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
05056>       [InterEventTime=  12.00]
05057> R1990:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05058>     ADD HYD            5.0 02:R4          129.05     .606 1990.0720_14:50  243.10  n/a     .000
05059>                  +     5.0 02:SOUTH-2      11.61     .056 1990.0720_13:50  242.17  n/a     .000
05060>                SUM=    5.0 01:J5          140.66     .650 1990.0720_14:45  243.02  n/a     .000
05061> R1990:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05062>     ROUTE CHANNEL   ->    5.0 02:J5          140.66     .650 1990.0720_14:45  243.02  n/a     .000
05063> *   [RD= 5.00] out<-     5.0 01:R5          140.66     .649 1990.0720_14:50  243.02  n/a     .000
05064>       [L/S/n=  181./ .500/.035]
05065>       [Vmax=  .556:Dmax=  .301]
05066> R1990:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05067>     CONTINUOUS NASHYD     5.0 01:SOUTH-3       7.98     .051 1990.0720_13:45  242.69 .402     .000
05068>       [CN= 42.6: N= 3.00: Tp=  .89]
05069>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
05070>       [InterEventTime=  12.00]
05071> R1990:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05072>     ADD HYD            5.0 02:R5          140.66     .649 1990.0720_14:50  243.02  n/a     .000
05073>                  +     5.0 02:SOUTH-3       7.98     .051 1990.0720_13:45  242.69  n/a     .000
05074>                SUM=    5.0 01:J6          148.64     .686 1990.0720_14:45  243.01  n/a     .000
05075> R1990:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05076>     SAVE HYD           5.0 01:J6          148.64     .686 1990.0720_14:45  243.01  n/a     .000
05077>       fname :J6.1990
05078>       remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
05079> R1990:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05080>     ROUTE CHANNEL   ->    5.0 02:J6          148.64     .686 1990.0720_14:45  243.01  n/a     .000
05081> *   [RD= 5.00] out<-     5.0 01:R6          148.64     .682 1990.0720_14:50  243.01  n/a     .000
05082>       [L/S/n=  323./ .440/.035]
05083>       [Vmax=  .610:Dmax=  .346]
05084> R1990:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05085>     CONTINUOUS NASHYD     5.0 01:SOUTH-4      14.99     .071 1990.0720_14:15  242.37 .402     .000
05086>       [CN= 39.5: N= 3.00: Tp= 1.23]
05087>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
05088>       [InterEventTime=  12.00]
05089> R1990:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05090>     ADD HYD            5.0 02:R6          148.64     .682 1990.0720_14:50  243.01  n/a     .000
05091>                  +     5.0 02:SOUTH-4      14.99     .071 1990.0720_14:15  242.37  n/a     .000
05092>                SUM=    5.0 01:Total       163.63     .746 1990.0720_14:45  242.95  n/a     .000
05093> #=========================================================================
05094> #=========================================================================
05095> ##########################################################################
05096> # CONTINUOUS RAINFALL DATA
05097> ##########################################################################
05098> #*************************************************************************
05099> # STORMS
05100> #*************************************************************************
05101>  ** END OF RUN : 1990
05102>
05103> ***************************************************************************************************
05104>
05105>
05106>
05107>
05108>
05109>  RUN#:COMMAND#
05110> R1991:C00001------------------------------------------------------------------------------------
05111>       START              [TZERO =    .00 hrs on 19910401]
05112>       [METOUT=   2   (1=imperial, 2=metric output)]
05113>       [NSTORM=   0 ]
05114>       [NRUN  = 1991 ]
05115> #*************************************************************************
05116> #  SWMHYMO  / INPUT DATA FILE
05117> #*************************************************************************
05118> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
05119> #  Date        : 04-28-2021
05120> #  Modeller    : [J.B]
05121> #  Company     : JFSAinc.
05122> #  License #   : 2549237
05123> #*************************************************************************
05124> #*************************************************************************
05125> #*************************************************************************
05126> #*************************************************************************
05127> # Ottawa International Airport - April 1st to October 31st
05128> R1991:C00002------------------------------------------------------------------------------------
05129>    READ AES DATA
05130>       [Filename  = YOW_1967_2007.123                                    ]
05131>       [Start_date= 1991.0401: End_date= 1991.1031]
05132>       [DT= 60.min: Length= 5136.hrs: WetHrs=  412: DryHrs= 4724: PTOT= 482.20)
05133>       Maximum average rainfall intensities over
05134>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
05135>        11.30     9.90     6.87     4.10     2.53     1.72     1.28     1.08      .79    mm/hr
05136>        11.30    19.80    20.60    24.60    30.40    41.20    46.00    51.60    57.00    mm
05137>       19910409 19910409 19910409 19910409 19911016 19910422 19910410 19910410 19910423  date
05138>       Number of rainfall events per following interevent time
05139>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
05140>          135      113      105       83       65       49       39       34       27
05141>       Number of events with at least the following durations
05142>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
05143>          134       75       49       17        5        1        0        0        0
05144> R1991:C00003------------------------------------------------------------------------------------
05145>       COMPUTE API
05146>       [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
05147>       [APImax= 77.18: APIavg= 22.96: APImin=  3.08]
05148> R1991:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05149>     CONTINUOUS NASHYD     5.0 01:NORTH-1      34.70     .038 1991.0422_16:20  142.99 .297     .000
05150>       [CN= 38.1: N= 3.00: Tp= 4.12]
05151>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
05152>       [InterEventTime=  12.00]
05153> R1991:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05154>     CONTINUOUS NASHYD     5.0 01:NORTH-2      12.44     .045 1991.0410_ 4:10  144.05 .299     .000
05155>       [CN= 53.0: N= 3.00: Tp= 1.29]
05156>       [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
05157>       [InterEventTime=  12.00]
05158> R1991:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05159>     CONTINUOUS NASHYD     5.0 01:HWY-1         2.36     .019 1991.0410_ 4:00  148.83 .309     .000
05160>       [CN= 81.7: N= 3.00: Tp= 1.21]
05161>       [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
05162>       [InterEventTime=  12.00]
05163> R1991:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05164>     ADD HYD            5.0 02:NORTH-1      34.70     .038 1991.0422_16:20  142.99  n/a     .000
05165>                  +     5.0 02:NORTH-2      12.44     .045 1991.0410_ 4:10  144.05  n/a     .000
05166>                  +     5.0 02:HWY-1         2.36     .019 1991.0410_ 4:00  148.83  n/a     .000
05167>                SUM=    5.0 01:J1          49.51     .084 1991.0410_ 4:15  143.53  n/a     .000
05168> R1991:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05169>     ROUTE CHANNEL   ->    5.0 02:J1          49.51     .084 1991.0410_ 4:15  143.53  n/a     .000
05170> *   [RD= 5.00] out<-     5.0 01:R1          49.51     .081 1991.0410_ 4:35  143.53  n/a     .000
05171>       [L/S/n=  478./ .440/.035]
05172>       [Vmax=  .374:Dmax=  .154]
05173> R1991:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05174>     CONTINUOUS NASHYD     5.0 01:INT-1         4.39     .016 1991.0410_ 4:30  144.80 .300     .000
05175>       [CN= 60.4: N= 3.00: Tp= 1.66]
05176>       [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
05177>       [InterEventTime=  12.00]
05178> R1991:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05179>     CONTINUOUS NASHYD     5.0 01:INT-2         3.61     .014 1991.0410_ 3:45  143.58 .298     .000
05180>       [CN= 47.4: N= 3.00: Tp=  .95]
05181>       [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
05182>       [InterEventTime=  12.00]
05183> R1991:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05184>     CONTINUOUS NASHYD     5.0 01:A3A           3.84     .015 1991.0410_ 4:20  144.57 .300     .000
05185>       [CN= 58.4: N= 3.00: Tp= 1.46]
05186>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
05187>       [InterEventTime=  12.00]
05188> R1991:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05189>     CONTINUOUS NASHYD     5.0 01:A3B           5.29     .014 1991.0410_ 4:05  143.23 .297     .000
05190>       [CN= 42.6: N= 3.00: Tp= 1.26]
05191>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
05192>       [InterEventTime=  12.00]
05193> R1991:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05194>     CONTINUOUS NASHYD     5.0 01:A3C           1.21     .003 1991.0410_ 3:40  142.91 .296     .000
05195>       [CN= 37.8: N= 3.00: Tp=  .87]
05196>       [IaREC= 6.00: SMIN=179.29: SMAX=******: SK= .030]
05197>       [InterEventTime=  12.00]
05198> R1991:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05199>     ROUTE CHANNEL   ->    5.0 02:A3C           1.21     .003 1991.0410_ 3:40  142.91  n/a     .000
05200> *   [RD= 5.00] out<-     5.0 01:A3C-R         1.21     .002 1991.0410_ 4:35  142.91  n/a     .000
05201>       [L/S/n=  500./ .140/.035]
05202>       [Vmax=  .083:Dmax=  .043]
05203> R1991:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05204>     CONTINUOUS NASHYD     5.0 01:INT-3         5.71     .032 1991.0410_ 3:40  144.57 .300     .000
05205>       [CN= 58.5: N= 3.00: Tp=  .89]
05206>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
05207>       [InterEventTime=  12.00]
05208> R1991:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05209>     ADD HYD            5.0 02:R1          49.51     .081 1991.0410_ 4:35  143.53  n/a     .000
05210>                  +     5.0 02:INT-1         4.39     .016 1991.0410_ 4:30  144.80  n/a     .000
05211>                  +     5.0 02:INT-2         3.61     .014 1991.0410_ 3:45  143.58  n/a     .000
05212>                  +     5.0 02:INT-3         5.71     .032 1991.0410_ 3:40  144.57  n/a     .000
05213>                  +     5.0 02:A3A           3.84     .015 1991.0410_ 4:20  144.57  n/a     .000
05214>                  +     5.0 02:A3B           5.29     .014 1991.0410_ 4:05  143.23  n/a     .000
05215>                  +     5.0 02:A3C-R         1.21     .002 1991.0410_ 4:35  142.91  n/a     .000
05216>                SUM=    5.0 01:J2          73.56     .163 1991.0410_ 4:15  143.71  n/a     .000
05217> R1991:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05218>     ROUTE CHANNEL   ->    5.0 02:J2          73.56     .163 1991.0410_ 4:15  143.71  n/a     .000
05219> *   [RD= 5.00] out<-     5.0 01:R2          73.56     .160 1991.0410_ 4:25  143.71  n/a     .000
05220>       [L/S/n=  359./ .560/.035]
05221>       [Vmax=  .422:Dmax=  .124]
05222> R1991:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05223>     CONTINUOUS NASHYD     5.0 01:A1A          21.43     .036 1991.0410_ 4:30  142.83 .296     .000
05224>       [CN= 36.1: N= 3.00: Tp= 1.68]
05225>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
05226>       [InterEventTime=  12.00]
05227> R1991:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05228>     CONTINUOUS NASHYD     5.0 01:A1B           4.70     .010 1991.0410_ 4:35  143.31 .297     .000
05229>       [CN= 44.6: N= 3.00: Tp= 1.72]
05230>       [IaREC= 6.00: SMIN=134.47: SMAX=896.47: SK= .030]
05231>       [InterEventTime=  12.00]
05232> R1991:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05233>     CONTINUOUS NASHYD     5.0 01:A2           9.14     .056 1991.0410_ 3:55  145.85 .302     .000
05234>       [CN= 68.4: N= 3.00: Tp= 1.12]
05235>       [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
05236>       [InterEventTime=  12.00]
05237> R1991:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05238>     ADD HYD            5.0 02:R2          73.56     .160 1991.0410_ 4:25  143.71  n/a     .000
05239>                  +     5.0 02:A1A          21.43     .036 1991.0410_ 4:30  142.83  n/a     .000
05240>                  +     5.0 02:A1B           4.70     .010 1991.0410_ 4:35  143.31  n/a     .000
05241>                  +     5.0 02:A2            9.14     .056 1991.0410_ 3:55  145.85  n/a     .000
05242>                SUM=    5.0 01:J3          108.84     .257 1991.0410_ 4:20  143.70  n/a     .000
05243> R1991:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05244>     ROUTE CHANNEL   ->    5.0 02:J3          108.84     .257 1991.0410_ 4:20  143.70  n/a     .000
05245> *   [RD= 5.00] out<-     5.0 01:R3          108.84     .250 1991.0410_ 4:35  143.70  n/a     .000
05246>       [L/S/n=  396./ .305/.035]
05247>       [Vmax=  .389:Dmax=  .255]
05248> R1991:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05249>     CONTINUOUS NASHYD     5.0 01:SOUTH-1      20.21     .037 1991.0410_ 4:15  142.76 .296     .000
05250>       [CN= 35.5: N= 3.00: Tp= 1.40]
05251>       [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
05252>       [InterEventTime=  12.00]
05253> R1991:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05254>     ADD HYD            5.0 02:R3          108.84     .250 1991.0410_ 4:35  143.70  n/a     .000
05255>                  +     5.0 02:SOUTH-1      20.21     .037 1991.0410_ 4:15  142.76  n/a     .000
05256>                SUM=    5.0 01:J4          129.05     .286 1991.0410_ 4:35  143.56  n/a     .000
05257> R1991:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05258>     ROUTE CHANNEL   ->    5.0 02:J4          129.05     .286 1991.0410_ 4:35  143.56  n/a     .000
05259> *   [RD= 5.00] out<-     5.0 01:R4          129.05     .281 1991.0410_ 4:45  143.55  n/a     .000
05260>       [L/S/n=  482./ .410/.035]
05261>       [Vmax=  .505:Dmax=  .249]
05262> R1991:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05263>     CONTINUOUS NASHYD     5.0 01:SOUTH-2      11.61     .030 1991.0410_ 3:45  142.83 .296     .000
05264>       [CN= 36.7: N= 3.00: Tp=  .96]
05265>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
05266>       [InterEventTime=  12.00]
05267> R1991:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05268>     ADD HYD            5.0 02:R4          129.05     .281 1991.0410_ 4:45  143.55  n/a     .000
05269>                  +     5.0 02:SOUTH-2      11.61     .030 1991.0410_ 3:45  142.83  n/a     .000
05270>                SUM=    5.0 01:J5          140.66     .301 1991.0410_ 4:40  143.50  n/a     .000
05271> R1991:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05272>     ROUTE CHANNEL   ->    5.0 02:J5          140.66     .301 1991.0410_ 4:40  143.50  n/a     .000
05273> *   [RD= 5.00] out<-     5.0 01:R5          140.66     .300 1991.0410_ 4:45  143.50  n/a     .000
05274>       [L/S/n=  181./ .500/.035]
05275>       [Vmax=  .484:Dmax=  .238]
05276> R1991:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05277>     CONTINUOUS NASHYD     5.0 01:SOUTH-3       7.98     .027 1991.0410_ 3:40  143.23 .297     .000
05278>       [CN= 42.6: N= 3.00: Tp=  .89]
05279>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
05280>       [InterEventTime=  12.00]
05281> R1991:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05282>     ADD HYD            5.0 02:R5          140.66     .300 1991.0410_ 4:45  143.50  n/a     .000
05283>                  +     5.0 02:SOUTH-3       7.98     .027 1991.0410_ 3:40  143.23  n/a     .000
05284>                SUM=    5.0 01:J6          148.64     .316 1991.0410_ 4:40  143.48  n/a     .000
05285> R1991:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05286>     SAVE HYD           5.0 01:J6          148.64     .316 1991.0410_ 4:40  143.48  n/a     .000
05287>       fname :J6.1991
05288>       remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
05289> R1991:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05290>     ROUTE CHANNEL   ->    5.0 02:J6          148.64     .316 1991.0410_ 4:40  143.48  n/a     .000
05291> *   [RD= 5.00] out<-     5.0 01:R6          148.64     .313 1991.0410_ 4:50  143.48  n/a     .000
05292>       [L/S/n=  323./ .440/.035]
05293>       [Vmax=  .528:Dmax=  .255]
05294> R1991:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05295>     CONTINUOUS NASHYD     5.0 01:SOUTH-4      14.99     .035 1991.0410_ 4:05  142.99 .297     .000
05296>       [CN= 39.5: N= 3.00: Tp= 1.23]
05297>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
05298>       [InterEventTime=  12.00]
05299> R1991:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05300>     ADD HYD            5.0 02:R6          148.64     .313 1991.0410_ 4:50  143.48  n/a     .000
05301>                  +     5.0 02:SOUTH-4      14.99     .035 1991.0410_ 4:05  142.99  n/a     .000
05302>                SUM=    5.0 01:Total       163.63     .342 1991.0410_ 4:45  143.44  n/a     .000
05303> #=========================================================================
05304> #=========================================================================
05305> ##########################################################################
05306> # CONTINUOUS RAINFALL DATA
05307> ##########################################################################
05308> #*************************************************************************
05309> # STORMS
05310> #*************************************************************************
05311>  ** END OF RUN : 1991
05312>
05313> ***************************************************************************************************
05314>
05315>
05316>
05317>
05318>
05319>  RUN#:COMMAND#
05320> R1992:C00001------------------------------------------------------------------------------------
05321>       START
05322>       [TZERO =    .00 hrs on 19920401]
05323>       [METOUT=   2   (1=imperial, 2=metric output)]
05324>       [NSTORM=   0 ]
05325>       [NRUN  = 1992 ]
05326> #*************************************************************************
05327> #  SWMHYMO  / INPUT DATA FILE
05328> #*************************************************************************
05329> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
05330> #  Date        : 04-28-2021
05331> #  Modeller    : [J.B]
05332> #  Company     : JFSAinc.
05333> #  License #   : 2549237
05334> #*************************************************************************
05335> #*************************************************************************
05336> #*************************************************************************
05337> # Ottawa International Airport - April 1st to October 31st
05338> R1992:C00002------------------------------------------------------------------------------------
05339>       READ AES DATA
05340>       [Filename  = YOW_1967_2007.123                                    ]
05341>       [Start_date= 1992.0401: End_date= 1992.1031]
05342>       [DT= 60.min: Length= 5136.hrs: WetHrs=  391: DryHrs= 4745: PTOT= 552.00)
05343>       Maximum average rainfall intensities over
05344>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
05345>        31.50    18.00    13.30     7.22     4.14     2.26     1.51     1.51     1.02    mm/hr
05346>        31.50    36.00    39.90    43.30    49.70    54.20    54.20    72.60    73.60    mm
05347>       19920804 19920804 19920804 19920804 19920717 19920718 19920718 19920719 19920720  date
05348>       Number of rainfall events per following interevent time
05349>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
05350>          148      119      105       79       64       49       41       34       26
05351>       Number of events with at least the following durations
05352>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
05353>          147       83       49       12        3        0        0        0        0
05354> R1992:C00003------------------------------------------------------------------------------------
05355>       COMPUTE API
05356>       [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
05357>       [APImax= 97.62: APIavg= 26.28: APImin=  7.40]
05358> R1992:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05359>     CONTINUOUS NASHYD     5.0 01:NORTH-1      34.70     .113 1992.0717_22:20  220.97 .400     .000
05360>       [CN= 38.1: N= 3.00: Tp= 4.12]
05361>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
05362>       [InterEventTime=  12.00]
05363> R1992:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05364>     CONTINUOUS NASHYD     5.0 01:NORTH-2      12.44     .145 1992.0717_19:35  221.24 .401     .000
05365>       [CN= 53.0: N= 3.00: Tp= 1.29]
05366>       [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
05367>       [InterEventTime=  12.00]
05368> R1992:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05369>     CONTINUOUS NASHYD     5.0 01:HWY-1         2.36     .058 1992.0717_19:20  222.43 .403     .000
05370>       [CN= 81.7: N= 3.00: Tp= 1.21]
05371>       [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
05372>       [InterEventTime=  12.00]
05373> R1992:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05374>     ADD HYD            5.0 02:NORTH-1      34.70     .113 1992.0717_22:20  220.97  n/a     .000
05375>                  +     5.0 02:NORTH-2      12.44     .145 1992.0717_19:35  221.24  n/a     .000
05376>                  +     5.0 02:HWY-1         2.36     .058 1992.0717_19:20  222.43  n/a     .000
05377>                SUM=    5.0 01:J1          49.51     .266 1992.0717_19:45  221.11  n/a     .000
05378> R1992:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05379>     ROUTE CHANNEL   ->    5.0 02:J1          49.51     .266 1992.0717_19:45  221.11  n/a     .000
05380> *   [RD= 5.00] out<-     5.0 01:R1          49.51     .263 1992.0717_20:00  221.11  n/a     .000
05381>       [L/S/n=  478./ .440/.035]
05382>       [Vmax=  .514:Dmax=  .250]
05383> R1992:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05384>     CONTINUOUS NASHYD     5.0 01:INT-1         4.39     .053 1992.0717_19:55  221.42 .401     .000
05385>       [CN= 60.4: N= 3.00: Tp= 1.66]
05386>       [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
05387>       [InterEventTime=  12.00]
05388> R1992:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05389>     CONTINUOUS NASHYD     5.0 01:INT-2         3.61     .041 1992.0717_19:15  221.12 .401     .000
05390>       [CN= 47.4: N= 3.00: Tp=  .95]
05391>       [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
05392>       [InterEventTime=  12.00]
05393> R1992:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05394>     CONTINUOUS NASHYD     5.0 01:A3A           3.84     .048 1992.0717_19:40  221.37 .401     .000
05395>       [CN= 58.4: N= 3.00: Tp= 1.46]
05396>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
05397>       [InterEventTime=  12.00]
05398> R1992:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05399>     CONTINUOUS NASHYD     5.0 01:A3B           5.29     .045 1992.0717_19:35  221.03 .400     .000
05400>       [CN= 42.6: N= 3.00: Tp= 1.26]
```

```
05401>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
05402>       [InterEventTime=  12.00]
05403> R1992:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
05404>      CONTINUOUS NASHYD      5.0 01:A3C              1.21      .010 1992.0717_19:15  220.96 .400     .000
05405>       [CN= 37.8: N= 3.00: Tp=  .87]
05406>       [IaREC= 6.00: SMIN=179.29: SMAX=*****: SK= .030]
05407>       [InterEventTime=  12.00]
05408> R1992:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
05409>      ROUTE CHANNEL   ->     5.0 02:A3C              1.21      .010 1992.0717_19:15  220.96  n/a     .000
05410> *   [RDT= 5.00] out<-      5.0 01:A3C-R            1.21      .008 1992.0717_19:45  220.95  n/a     .000
05411>       [L/S/n=  500./ .140./.035]
05412>       [Vmax=  .126:Dmax=  .066]
05413> R1992:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
05414>      CONTINUOUS NASHYD      5.0 01:INT-3            5.71      .092 1992.0717_19:10  221.37 .401     .000
05415>       [CN= 58.5: N= 3.00: Tp=  .89]
05416>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
05417>       [InterEventTime=  12.00]
05418> R1992:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
05419>      ADD HYD                5.0 02:R1              49.51      .263 1992.0717_20:00  221.11  n/a     .000
05420>                         +    5.0 02:INT-1            4.39      .053 1992.0717_19:55  221.42  n/a     .000
05421>                         +    5.0 02:INT-2            3.61      .041 1992.0717_19:15  221.12  n/a     .000
05422>                         +    5.0 02:INT-3            5.71      .092 1992.0717_19:10  221.37  n/a     .000
05423>                         +    5.0 02:A3A              3.84      .048 1992.0717_19:40  221.37  n/a     .000
05424>                         +    5.0 02:A3B              5.29      .045 1992.0717_19:35  221.03  n/a     .000
05425>                         +    5.0 02:A3C-R            1.21      .008 1992.0717_19:45  220.95  n/a     .000
05426>                       SUM=   5.0 01:J2              73.56      .530 1992.0717_19:35  221.16  n/a     .000
05427> R1992:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
05428>      ROUTE CHANNEL   ->     5.0 02:J2              73.56      .530 1992.0717_19:35  221.16  n/a     .000
05429> *   [RDT= 5.00] out<-      5.0 01:R2              73.56      .528 1992.0717_19:45  221.15  n/a     .000
05430>       [L/S/n=  359./ .560/.035]
05431>       [Vmax=  .641:Dmax=  .223]
05432> R1992:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
05433>      CONTINUOUS NASHYD      5.0 01:A1A             21.43      .123 1992.0717_20:00  220.94 .400     .000
05434>       [CN= 36.1: N= 3.00: Tp= 1.68]
05435>       [IaREC= 6.00: SMIN=191.09: SMAX=*****: SK= .030]
05436>       [InterEventTime=  12.00]
05437> R1992:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
05438>      CONTINUOUS NASHYD      5.0 01:A1B              4.70      .035 1992.0717_20:00  221.06 .400     .000
05439>       [CN= 44.6: N= 3.00: Tp= 1.72]
05440>       [IaREC= 6.00: SMIN=134.47: SMAX=896.47: SK= .030]
05441>       [InterEventTime=  12.00]
05442> R1992:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
05443>      CONTINUOUS NASHYD      5.0 01:A2               9.14      .171 1992.0717_19:20  221.68 .402     .000
05444>       [CN= 68.4: N= 3.00: Tp= 1.12]
05445>       [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
05446>       [InterEventTime=  12.00]
05447> R1992:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
05448>      ADD HYD               73.56      .528 1992.0717_19:45  221.15  n/a     .000
05449>                         +    5.0 02:A1A             21.43      .123 1992.0717_20:00  220.94  n/a     .000
05450>                         +    5.0 02:A1B              4.70      .035 1992.0717_20:00  221.05  n/a     .000
05451>                         +    5.0 02:A2               9.14      .171 1992.0717_19:20  221.68  n/a     .000
05452>                       SUM=  108.84      .845 1992.0717_19:40  221.15  n/a     .000
05453> R1992:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
05454>      ROUTE CHANNEL   ->     5.0 02:J3             108.84      .845 1992.0717_19:40  221.15  n/a     .000
05455> *   [RDT= 5.00] out<-      5.0 01:R3             108.84      .834 1992.0717_19:50  221.15  n/a     .000
05456>       [L/S/n=  396./ .305/.035]
05457>       [Vmax=  .477:Dmax=  .391]
05458> R1992:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
05459>      CONTINUOUS NASHYD      5.0 01:SOUTH-1         20.21      .123 1992.0717_19:40  220.92 .400     .000
05460>       [CN= 35.5: N= 3.00: Tp= 1.40]
05461>       [IaREC= 6.00: SMIN=204.20: SMAX=*****: SK= .030]
05462>       [InterEventTime=  12.00]
05463> R1992:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
05464>      ADD HYD              108.84      .834 1992.0717_19:50  221.15  n/a     .000
05465>                         +    5.0 02:SOUTH-1         20.21      .123 1992.0717_19:40  220.92  n/a     .000
05466>                       SUM=   5.0 01:J4             129.05      .956 1992.0717_19:50  221.11  n/a     .000
05467> R1992:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
05468>      ROUTE CHANNEL   ->     5.0 02:J4             129.05      .956 1992.0717_19:50  221.11  n/a     .000
05469> *   [RDT= 5.00] out<-      5.0 01:R4             129.05      .947 1992.0717_20:00  221.11  n/a     .000
05470>       [L/S/n=  482./ .410/.035]
05471>       [Vmax=  .638:Dmax=  .401]
05472> R1992:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
05473>      CONTINUOUS NASHYD      5.0 01:SOUTH-2         11.61      .090 1992.0717_19:20  220.94 .400     .000
05474>       [CN= 36.7: N= 3.00: Tp=  .96]
05475>       [IaREC= 6.00: SMIN=191.09: SMAX=*****: SK= .030]
05476>       [InterEventTime=  12.00]
05477> R1992:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
05478>      ADD HYD              129.05      .947 1992.0717_20:00  221.11  n/a     .000
05479>                         +    5.0 02:SOUTH-2         11.61      .090 1992.0717_19:20  220.94  n/a     .000
05480>                       SUM=   5.0 01:J5             140.66     1.020 1992.0717_19:55  221.10  n/a     .000
05481> R1992:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
05482>      ROUTE CHANNEL   ->     5.0 02:J5             140.66     1.020 1992.0717_19:55  221.10  n/a     .000
05483> *   [RDT= 5.00] out<-      5.0 01:R5             140.66     1.018 1992.0717_20:00  221.10  n/a     .000
05484>       [L/S/n=  181./ .500/.035]
05485>       [Vmax=  .644:Dmax=  .362]
05486> R1992:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
05487>      CONTINUOUS NASHYD      5.0 01:SOUTH-3          7.98      .080 1992.0717_19:15  221.03 .400     .000
05488>       [CN= 42.6: N= 3.00: Tp=  .89]
05489>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
05490>       [InterEventTime=  12.00]
05491> R1992:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
05492>      ADD HYD                5.0 02:R5             140.66     1.018 1992.0717_20:00  221.10  n/a     .000
05493>                         +    5.0 02:SOUTH-3          7.98      .080 1992.0717_19:15  221.03  n/a     .000
05494>                       SUM=   5.0 01:J6             148.64     1.079 1992.0717_20:00  221.10  n/a     .000
05495> R1992:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
05496>      SAVE HYD               5.0 01:J6             148.64     1.079 1992.0717_20:00  221.10  n/a     .000
05497>       fname :J6.1992
05498>       remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
05499> R1992:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
05500>      ROUTE CHANNEL   ->     5.0 02:J6             148.64     1.079 1992.0717_20:00  221.10  n/a     .000
05501> *   [RDT= 5.00] out<-      5.0 01:R6             148.64     1.075 1992.0717_20:05  221.10  n/a     .000
05502>       [L/S/n=  323./ .440/.035]
05503>       [Vmax=  .672:Dmax=  .414]
05504> R1992:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
05505>      CONTINUOUS NASHYD      5.0 01:SOUTH-4         14.99      .114 1992.0717_19:30  220.97 .400     .000
05506>       [CN= 39.5: N= 3.00: Tp= 1.23]
05507>       [IaREC= 6.00: SMIN=168.62: SMAX=*****: SK= .030]
05508>       [InterEventTime=  12.00]
05509> R1992:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
05510>      ADD HYD                5.0 02:R6             148.64     1.075 1992.0717_20:05  221.10  n/a     .000
05511>                         +    5.0 02:SOUTH-4         14.99      .114 1992.0717_19:30  220.97  n/a     .000
05512>                       SUM=   5.0 01:Total          163.63     1.179 1992.0717_20:00  221.08  n/a     .000
05513> #=============================================================================
05514> #=============================================================================
05515> ##############################################################################
05516> # CONTINUOUS RAINFALL DATA
05517> ##############################################################################
05518> #*****************************************************************************
05519> # STORMS
05520> #*****************************************************************************
05521>   ** END OF RUN : 1992
05522>
05523> ******************************************************************************************************************
05524>
05525>
05526>
05527>
05528>
05529>  RUN#:COMMAND#
05530> R1993:C00001------------------------------------------------------------------------------------------------------
05531>      START
05532>       [TZERO =    .00 hrs on 19930401]
05533>       [METOUT=   2   (1=imperial, 2=metric output)]
05534>       [NSTORM=   0 ]
05535>       [NRUN  = 1993 ]
05536> #*****************************************************************************
05537> #  SWMHYMO  / INPUT DATA FILE
05538> #*****************************************************************************
05539> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
05540> #  Date       : 04-28-2021
05541> #  Modeller   : [J.B]
05542> #  Company    : JFSAinc.
05543> #  License #  : 2549237
05544> #*****************************************************************************
05545> #*****************************************************************************
05546> #*****************************************************************************
05547> # Ottawa International Airport - April 1st to October 31st
05548> R1993:C00002------------------------------------------------------------------------------------------------------
05549>   *  READ AES DATA
05550>       [Filename  = YOW_1967_2007.123                                    ]
05551>       [Start_date= 1993.0401: End_date= 1993.1031]
05552>       [DT= 60.min: Length= 5136.hrs: WetHrs=  431: DryHrs= 4705: PTOT= 556.70)
05553>       Maximum average rainfall intensities over
05554>          1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
05555>         12.60     6.60     4.80     3.22     2.20     1.22     1.02      .76      .51    mm/hr
05556>         12.60    13.20    14.40    19.30    26.40    29.20    36.60    36.60    36.60    mm
05557>       19930703 19930703 19930615 19931021 19930531 19930411 19930601 19930602 19930603  date
05558>       Number of rainfall events per following interevent time
05559>          1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
05560>           155       76      113       90       76       59       46       38       25
05561>       Number of events with at least the following durations
05562>          1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
05563>           154       88       51       19        4        1        0        0        0
05564> R1993:C00003------------------------------------------------------------------------------------------------------
05565>      COMPUTE API
05566>       [APIinit= 50.00: APIkdy= .9000: APIkdt= .9956]
05567>       [APImax= 55.58: APIavg= 26.07: APImin=  7.27)
05568> R1993:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
05569>      CONTINUOUS NASHYD      5.0 01:NORTH-1         34.70      .017 1993.1021_ 9:25  142.72 .256     .000
05570>       [CN= 38.1: N= 3.00: Tp= 4.12]
05571>       [IaREC= 6.00: SMIN=168.62: SMAX=*****: SK= .030]
05572>       [InterEventTime=  12.00]
05573> R1993:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
05574>      CONTINUOUS NASHYD      5.0 01:NORTH-2         12.44      .015 1993.0601_13:15  144.00 .259     .000
05575>       [CN= 53.0: N= 3.00: Tp= 1.29]
05576>       [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
05577>       [InterEventTime=  12.00]
05578> R1993:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
05579>      CONTINUOUS NASHYD      5.0 01:NWY-1           2.36      .007 1993.1021_ 6:35  150.67 .271     .000
05580>       [CN= 81.7: N= 3.00: Tp= 1.21]
05581>       [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
05582>       [InterEventTime=  12.00]
05583> R1993:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
05584>      ADD HYD                5.0 02:NORTH-1         34.70      .017 1993.1021_ 9:25  142.72  n/a     .000
05585>                         +    5.0 02:NORTH-2         12.44      .015 1993.0601_13:15  144.00  n/a     .000
05586>                         +    5.0 02:NWY-1            2.36      .007 1993.1021_ 6:35  150.67  n/a     .000
05587>                       SUM=   5.0 01:J1             49.51      .036 1993.1021_ 7:15  143.42  n/a     .000
05588> R1993:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
05589>      ROUTE CHANNEL   ->     5.0 02:J1             49.51      .036 1993.1021_ 7:15  143.42  n/a     .000
05590> *   [RDT= 5.00] out<-      5.0 01:R1             49.51      .036 1993.1021_ 7:30  143.42  n/a     .000
05591>       [L/S/n=  478./ .440/.035]
05592>       [Vmax=  .286:Dmax=  .110]
05593> R1993:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
05594>      CONTINUOUS NASHYD      5.0 01:INT-1           4.39      .006 1993.1021_ 7:20  144.93 .260     .000
05595>       [CN= 60.4: N= 3.00: Tp= 1.66]
05596>       [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
05597>       [InterEventTime=  12.00]
05598> R1993:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
05599>      CONTINUOUS NASHYD      5.0 01:INT-2           3.61      .005 1993.0601_12:50  143.42 .258     .000
05600>       [CN= 47.4: N= 3.00: Tp=  .95]
05601>       [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
05602>       [InterEventTime=  12.00]
05603> R1993:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
05604>      CONTINUOUS NASHYD      5.0 01:A3A             3.84      .005 1993.1021_ 7:10  144.65 .260     .000
05605>       [CN= 58.4: N= 3.00: Tp= 1.46]
05606>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
05607>       [InterEventTime=  12.00]
05608> R1993:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
05609>      CONTINUOUS NASHYD      5.0 01:A3B             5.29      .005 1993.0601_13:15  143.01 .257     .000
05610>       [CN= 42.6: N= 3.00: Tp= 1.26]
05611>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
05612>       [InterEventTime=  12.00]
05613> R1993:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
05614>      CONTINUOUS NASHYD      5.0 01:A3C             1.21      .001 1993.0601_12:45  142.62 .256     .000
05615>       [CN= 37.8: N= 3.00: Tp=  .87]
05616>       [IaREC= 6.00: SMIN=179.29: SMAX=*****: SK= .030]
05617>       [InterEventTime=  12.00]
05618> R1993:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
05619>      ROUTE CHANNEL   ->     5.0 02:A3C             1.21      .001 1993.0601_12:45  142.62  n/a     .000
05620> *   [RDT= 5.00] out<-      5.0 01:A3C-R           1.21      .001 1993.1021_ 7:45  142.62  n/a     .000
05621>       [L/S/n=  500./ .140./.035]
05622>       [Vmax=  .059:Dmax=  .025]
05623> R1993:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
05624>      CONTINUOUS NASHYD      5.0 01:INT-3           5.71      .010 1993.0601_12:45  144.65 .260     .000
05625>       [CN= 58.5: N= 3.00: Tp=  .89]
05626>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
05627>       [InterEventTime=  12.00]
05628> R1993:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
05629>      ADD HYD                5.0 02:R1             49.51      .036 1993.1021_ 7:30  143.42  n/a     .000
05630>                         +    5.0 02:INT-1           4.39      .006 1993.1021_ 7:20  144.93  n/a     .000
05631>                         +    5.0 02:INT-2           3.61      .005 1993.0601_12:50  143.42  n/a     .000
05632>                         +    5.0 02:INT-3           5.71      .010 1993.0601_12:45  144.65  n/a     .000
05633>                         +    5.0 02:A3A             3.84      .005 1993.1021_ 7:10  144.65  n/a     .000
05634>                         +    5.0 02:A3B             5.29      .005 1993.0601_13:15  143.01  n/a     .000
05635>                         +    5.0 02:A3C-R           1.21      .001 1993.1021_ 7:45  142.62  n/a     .000
05636>                       SUM=   5.0 01:J2             73.56      .064 1993.1021_ 7:15  143.63  n/a     .000
05637> R1993:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
05638>      ROUTE CHANNEL   ->     5.0 02:J2             73.56      .064 1993.1021_ 7:15  143.63  n/a     .000
05639> *   [RDT= 5.00] out<-      5.0 01:R2             73.56      .063 1993.1021_ 7:25  143.63  n/a     .000
05640>       [L/S/n=  359./ .560/.035]
05641>       [Vmax=  .305:Dmax=  .080]
05642> R1993:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
05643>      CONTINUOUS NASHYD      5.0 01:A1A             21.43      .015 1993.1021_ 7:20  142.53 .256     .000
05644>       [CN= 36.1: N= 3.00: Tp= 1.68]
05645>       [IaREC= 6.00: SMIN=191.09: SMAX=*****: SK= .030]
05646>       [InterEventTime=  12.00]
05647> R1993:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
05648>      CONTINUOUS NASHYD      5.0 01:A1B              4.70      .004 1993.1021_ 7:20  143.11 .257     .000
05649>       [CN= 44.6: N= 3.00: Tp= 1.72]
05650>       [IaREC= 6.00: SMIN=134.47: SMAX=896.47: SK= .030]
05651>       [InterEventTime=  12.00]
05652> R1993:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
05653>      CONTINUOUS NASHYD      5.0 01:A2               9.14      .019 1993.0601_13:05  146.22 .263     .000
05654>       [CN= 68.4: N= 3.00: Tp= 1.12]
05655>       [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
05656>       [InterEventTime=  12.00]
05657> R1993:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
05658>      ADD HYD               73.56      .063 1993.1021_ 7:25  143.63  n/a     .000
05659>                         +    5.0 02:A1A             21.43      .015 1993.1021_ 7:20  142.53  n/a     .000
05660>                         +    5.0 02:A1B              4.70      .004 1993.1021_ 7:20  143.11  n/a     .000
05661>                         +    5.0 02:A2               9.14      .019 1993.0601_13:05  146.22  n/a     .000
05662>                       SUM=   5.0 01:J3             108.84      .099 1993.1021_ 7:15  143.61  n/a     .000
05663> R1993:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
05664>      ROUTE CHANNEL   ->     5.0 02:J3             108.84      .099 1993.1021_ 7:15  143.61  n/a     .000
05665> *   [RDT= 5.00] out<-      5.0 01:R3             108.84      .098 1993.1021_ 7:30  143.61  n/a     .000
05666>       [L/S/n=  396./ .305/.035]
05667>       [Vmax=  .316:Dmax=  .171]
05668> R1993:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
05669>      CONTINUOUS NASHYD      5.0 01:SOUTH-1         20.21      .014 1993.1021_ 7:10  142.44 .256     .000
05670>       [CN= 35.5: N= 3.00: Tp= 1.40]
05671>       [IaREC= 6.00: SMIN=204.20: SMAX=*****: SK= .030]
05672>       [InterEventTime=  12.00]
05673> R1993:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
05674>      ADD HYD              108.84      .098 1993.1021_ 7:30  143.61  n/a     .000
05675>                         +    5.0 02:SOUTH-1         20.21      .014 1993.1021_ 7:10  142.44  n/a     .000
05676>                       SUM=   5.0 01:J4             129.05      .111 1993.1021_ 7:25  143.42  n/a     .000
05677> R1993:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
05678>      ROUTE CHANNEL   ->     5.0 02:J4             129.05      .111 1993.1021_ 7:25  143.42  n/a     .000
05679> *   [RDT= 5.00] out<-      5.0 01:R4             129.05      .110 1993.1021_ 7:40  143.42  n/a     .000
05680>       [L/S/n=  482./ .410/.035]
05681>       [Vmax=  .391:Dmax=  .172]
05682> R1993:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
05683>      CONTINUOUS NASHYD      5.0 01:SOUTH-2         11.61      .010 1993.0601_12:50  142.53 .256     .000
05684>       [CN= 36.7: N= 3.00: Tp=  .96]
05685>       [IaREC= 6.00: SMIN=191.09: SMAX=*****: SK= .030]
05686>       [InterEventTime=  12.00]
05687> R1993:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
05688>      ADD HYD              129.05      .110 1993.1021_ 7:40  143.42  n/a     .000
05689>                         +    5.0 02:SOUTH-2         11.61      .010 1993.0601_12:50  142.53  n/a     .000
05690>                       SUM=   5.0 01:J5             140.66      .118 1993.1021_ 7:30  143.35  n/a     .000
05691> R1993:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
05692>      ROUTE CHANNEL   ->     5.0 02:J5             140.66      .118 1993.1021_ 7:30  143.35  n/a     .000
05693> *   [RDT= 5.00] out<-      5.0 01:R5             140.66      .118 1993.1021_ 7:40  143.35  n/a     .000
05694>       [L/S/n=  181./ .500/.035]
05695>       [Vmax=  .345:Dmax=  .156]
05696> R1993:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
05697>      CONTINUOUS NASHYD      5.0 01:SOUTH-3          7.98      .009 1993.0601_12:45  143.01 .257     .000
05698>       [CN= 42.6: N= 3.00: Tp=  .89]
05699>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
05700>       [InterEventTime=  12.00]
05701> R1993:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
05702>      ADD HYD                5.0 02:R5             140.66      .118 1993.1021_ 7:40  143.35  n/a     .000
05703>                         +    5.0 02:SOUTH-3          7.98      .009 1993.0601_12:45  143.01  n/a     .000
05704>                       SUM=   5.0 01:J6             148.64      .124 1993.1021_ 7:30  143.33  n/a     .000
05705> R1993:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
05706>      SAVE HYD               5.0 01:J6             148.64      .124 1993.1021_ 7:30  143.33  n/a     .000
05707>       fname :J6.1993
05708>       remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
05709> R1993:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
05710>      ROUTE CHANNEL   ->     5.0 02:J6             148.64      .124 1993.1021_ 7:30  143.33  n/a     .000
05711> *   [RDT= 5.00] out<-      5.0 01:R6             148.64      .123 1993.1021_ 7:45  143.33  n/a     .000
05712>       [L/S/n=  323./ .440/.035]
05713>       [Vmax=  .409:Dmax=  .175]
05714> R1993:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
05715>      CONTINUOUS NASHYD      5.0 01:SOUTH-4         14.99      .012 1993.0601_13:15  142.72 .256     .000
05716>       [CN= 39.5: N= 3.00: Tp= 1.23]
05717>       [IaREC= 6.00: SMIN=168.62: SMAX=*****: SK= .030]
05718>       [InterEventTime=  12.00]
05719> R1993:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm-----RVmm-R.C.---DWFcms
05720>      ADD HYD                5.0 02:R6             148.64      .123 1993.1021_ 7:45  143.33  n/a     .000
05721>                         +    5.0 02:SOUTH-4         14.99      .012 1993.0601_13:15  142.72  n/a     .000
05722>                       SUM=   5.0 01:Total          163.63      .134 1993.1021_ 7:35  143.28  n/a     .000
05723> #=============================================================================
05724> #=============================================================================
05725> ##############################################################################
05726> # CONTINUOUS RAINFALL DATA
05727> ##############################################################################
05728> #*****************************************************************************
05729> # STORMS
05730> #*****************************************************************************
05731>   ** END OF RUN : 1993
05732>
05733> ******************************************************************************************************************
05734>
05735>
05736>
05737>
05738>
05739>  RUN#:COMMAND#
05740> R1994:C00001------------------------------------------------------------------------------------------------------
05741>      START
05742>       [TZERO =    .00 hrs on 19940401]
05743>       [METOUT=   2   (1=imperial, 2=metric output)]
05744>       [NSTORM=   0 ]
05745>       [NRUN  = 1994 ]
05746> #*****************************************************************************
05747> #  SWMHYMO  / INPUT DATA FILE
05748> #*****************************************************************************
05749> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
05750> #  Date       : 04-28-2021
05751> #  Modeller   : [J.B]
05752> #  Company    : JFSAinc.
05753> #  License #  : 2549237
05754> #*****************************************************************************
05755> #*****************************************************************************
05756> #*****************************************************************************
05757> # Ottawa International Airport - April 1st to October 31st
05758> R1994:C00002------------------------------------------------------------------------------------------------------
05759>   *  READ AES DATA
05760>       [Filename  = YOW_1967_2007.123                                    ]
```

```
05761>       [Start_date= 1994.0401: End_date= 1994.1031]
05762>       (DT= 60.min: Length= 4416.hrs: WetHrs=  305: DryHrs= 4111: PTOT= 514.50)
05763>       Maximum average rainfall intensities over
05764>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
05765>        22.60    11.90     8.43     5.42     2.92     1.79     1.19      .89     1.15    mm/hr
05766>        22.60    23.80    25.30    32.50    35.00    42.90    42.90    42.90    82.60    mm
05767>       19940629 19940629 19940627 19940625 19940625 19940625 19940626 19940626 19940627  date
05768>       Number of rainfall events per following interevent time
05769>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
05770>          124      104       90       71       56       42       33       28       19
05771>       Number of events with at least the following durations
05772>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
05773>          123       66       42       11        1        0        0        0        0
05774> R1994:C00003------------------------------------------------------------------------------
05775>       COMPUTE API
05776>       [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
05777>       [APImax= 97.84: APIavg= 27.87: APImin=  6.14]
05778> R1994:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05779>      CONTINUOUS NASHYD     5.0 01:NORTH-1       34.70     .045 1994.0627_14:35  193.35 .376     .000
05780>         [CN= 38.1: N= 3.00: Tp= 4.12]
05781>         [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
05782>         [InterEventTime=  12.00]
05783> R1994:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05784>      CONTINUOUS NASHYD     5.0 01:NORTH-2       12.44     .048 1994.0627_11:45  193.76 .377     .000
05785>         [CN= 53.0: N= 3.00: Tp= 1.29]
05786>         [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
05787>         [InterEventTime=  12.00]
05788> R1994:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05789>      CONTINUOUS NASHYD     5.0 01:HWY-1          2.36     .022 1994.0627_11:30  195.71 .380     .000
05790>         [CN= 81.7: N= 3.00: Tp= 1.21]
05791>         [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
05792>         [InterEventTime=  12.00]
05793> R1994:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05794>      ADD HYD               5.0 02:NORTH-1       34.70     .045 1994.0627_14:35  193.35  n/a     .000
05795>                     +      5.0 02:NORTH-2       12.44     .048 1994.0627_11:45  193.76  n/a     .000
05796>                     +      5.0 02:HWY-1          2.36     .022 1994.0627_11:30  195.71  n/a     .000
05797>                   SUM=     5.0 01:J1            49.51     .100 1994.0627_12:10  193.57  n/a     .000
05798> R1994:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05799>      ROUTE CHANNEL    ->     5.0 02:J1            49.51     .100 1994.0627_12:10  193.57  n/a     .000
05800> *    [RDT= 5.00] out<-     5.0 01:R1            49.51     .099 1994.0627_12:25  193.57  n/a     .000
05801>         [L/S/n=  478./ .440/.035]
05802>         [Vmax=  .392:Dmax=  .166]
05803> R1994:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05804>      CONTINUOUS NASHYD     5.0 01:INT-1          4.39     .019 1994.0627_12:15  194.05 .377     .000
05805>         [CN= 60.4: N= 3.00: Tp= 1.66]
05806>         [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
05807>         [InterEventTime=  12.00]
05808> R1994:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05809>      CONTINUOUS NASHYD     5.0 01:INT-2          3.61     .013 1994.0627_11:25  193.57 .376     .000
05810>         [CN= 47.4: N= 3.00: Tp=  .95]
05811>         [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
05812>         [InterEventTime=  12.00]
05813> R1994:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05814>      CONTINUOUS NASHYD     5.0 01:A3A            3.84     .017 1994.0627_12:05  193.96 .377     .000
05815>         [CN= 58.4: N= 3.00: Tp= 1.46]
05816>         [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
05817>         [InterEventTime=  12.00]
05818> R1994:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05819>      CONTINUOUS NASHYD     5.0 01:A3B            5.29     .015 1994.0627_11:45  193.44 .376     .000
05820>         [CN= 42.6: N= 3.00: Tp= 1.26]
05821>         [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
05822>         [InterEventTime=  12.00]
05823> R1994:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05824>      CONTINUOUS NASHYD     5.0 01:A3C            1.21     .003 1994.0629_13:40  193.32 .376     .000
05825>         [CN= 37.8: N= 3.00: Tp=  .87]
05826>         [IaREC= 6.00: SMIN=179.29: SMAX=******: SK= .030]
05827>         [InterEventTime=  12.00]
05828> R1994:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05829>      ROUTE CHANNEL    ->     5.0 02:A3C            1.21     .003 1994.0629_13:40  193.32  n/a     .000
05830>        [RDT= 5.00] out<-     5.0 01:A3C-R          1.21     .002 1994.0627_12:25  193.32  n/a     .000
05831>         [L/S/n=  500./ .140/.035]
05832>         [Vmax=  .079:Dmax=  .040]
05833> R1994:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05834>      CONTINUOUS NASHYD     5.0 01:INT-3          5.71     .029 1994.0627_11:20  193.96 .377     .000
05835>         [CN= 58.5: N= 3.00: Tp=  .89]
05836>         [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
05837>         [InterEventTime=  12.00]
05838> R1994:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05839>      ADD HYD               5.0 02:R1            49.51     .099 1994.0627_12:25  193.57  n/a     .000
05840>                     +      5.0 02:INT-1          4.39     .019 1994.0627_12:15  194.05  n/a     .000
05841>                     +      5.0 02:INT-2          3.61     .013 1994.0627_11:25  193.57  n/a     .000
05842>                     +      5.0 02:INT-3          5.71     .029 1994.0627_11:20  193.96  n/a     .000
05843>                     +      5.0 02:A3A            3.84     .017 1994.0627_12:05  193.96  n/a     .000
05844>                     +      5.0 02:A3B            5.29     .015 1994.0627_11:45  193.44  n/a     .000
05845>                     +      5.0 02:A3C-R          1.21     .002 1994.0627_12:25  193.32  n/a     .000
05846>                   SUM=     5.0 01:J2            73.56     .187 1994.0627_12:05  193.63  n/a     .000
05847> R1994:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05848>      ROUTE CHANNEL    ->     5.0 02:J2            73.56     .187 1994.0627_12:05  193.63  n/a     .000
05849>        [RDT= 5.00] out<-     5.0 01:R2            73.56     .187 1994.0627_12:15  193.64  n/a     .000
05850>         [L/S/n=  359./ .560/.035]
05851>         [Vmax=  .442:Dmax=  .132]
05852> R1994:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05853>      CONTINUOUS NASHYD     5.0 01:A1A           21.43     .043 1994.0627_12:20  193.30 .376     .000
05854>         [CN= 36.1: N= 3.00: Tp= 1.68]
05855>         [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
05856>         [InterEventTime=  12.00]
05857> R1994:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05858>      CONTINUOUS NASHYD     5.0 01:A1B            4.70     .012 1994.0627_12:20  193.47 .376     .000
05859>         [CN= 44.6: N= 3.00: Tp= 1.72]
05860>         [IaREC= 6.00: SMIN=134.47: SMAX=896.47: SK= .030]
05861>         [InterEventTime=  12.00]
05862> R1994:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05863>      CONTINUOUS NASHYD     5.0 01:A2             9.14     .059 1994.0627_11:30  194.47 .378     .000
05864>         [CN= 68.4: N= 3.00: Tp= 1.12]
05865>         [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
05866>         [InterEventTime=  12.00]
05867> R1994:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05868>      ADD HYD               5.0 02:R2            73.56     .187 1994.0627_12:15  193.64  n/a     .000
05869>                     +      5.0 02:A1A           21.43     .043 1994.0627_12:20  193.30  n/a     .000
05870>                     +      5.0 02:A1B            4.70     .012 1994.0627_12:20  193.47  n/a     .000
05871>                     +      5.0 02:A2             9.14     .059 1994.0627_11:30  194.47  n/a     .000
05872>                   SUM=     5.0 01:J3           108.84     .296 1994.0627_12:05  193.63  n/a     .000
05873> R1994:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05874>      ROUTE CHANNEL    ->     5.0 02:J3           108.84     .296 1994.0627_12:05  193.63  n/a     .000
05875>        [RDT= 5.00] out<-     5.0 01:R3           108.84     .293 1994.0627_12:20  193.63  n/a     .000
05876>         [L/S/n=  396./ .305/.035]
05877>         [Vmax=  .394:Dmax=  .271]
05878> R1994:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05879>      CONTINUOUS NASHYD     5.0 01:SOUTH-1       20.21     .041 1994.0627_12:05  193.27 .376     .000
05880>         [CN= 35.5: N= 3.00: Tp= 1.40]
05881>         [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
05882>         [InterEventTime=  12.00]
05883> R1994:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05884>      ADD HYD               5.0 02:R3           108.84     .293 1994.0627_12:20  193.63  n/a     .000
05885>                     +      5.0 02:SOUTH-1       20.21     .041 1994.0627_12:05  193.27  n/a     .000
05886>                   SUM=     5.0 01:J4           129.05     .333 1994.0627_12:20  193.57  n/a     .000
05887> R1994:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05888>      ROUTE CHANNEL    ->     5.0 02:J4           129.05     .333 1994.0627_12:20  193.57  n/a     .000
05889>        [RDT= 5.00] out<-     5.0 01:R4           129.05     .330 1994.0627_12:30  193.57  n/a     .000
05890>         [L/S/n=  482./ .410/.035]
05891>         [Vmax=  .516:Dmax=  .263]
05892> R1994:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05893>      CONTINUOUS NASHYD     5.0 01:SOUTH-2       11.61     .028 1994.0627_11:25  193.29 .376     .000
05894>         [CN= 36.7: N= 3.00: Tp=  .96]
05895>         [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
05896>         [InterEventTime=  12.00]
05897> R1994:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05898>      ADD HYD               5.0 02:R4           129.05     .330 1994.0627_12:30  193.57  n/a     .000
05899>                     +      5.0 02:SOUTH-2       11.61     .028 1994.0627_11:25  193.29  n/a     .000
05900>                   SUM=     5.0 01:J5           140.66     .354 1994.0627_12:25  193.55  n/a     .000
05901> R1994:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05902>      ROUTE CHANNEL    ->     5.0 02:J5           140.66     .354 1994.0627_12:25  193.55  n/a     .000
05903>        [RDT= 5.00] out<-     5.0 01:R5           140.66     .353 1994.0627_12:30  193.55  n/a     .000
05904>         [L/S/n=  181./ .500/.035]
05905>         [Vmax=  .493:Dmax=  .247]
05906> R1994:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05907>      CONTINUOUS NASHYD     5.0 01:SOUTH-3        7.98     .025 1994.0627_11:20  193.44 .376     .000
05908>         [CN= 42.6: N= 3.00: Tp=  .89]
05909>         [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
05910>         [InterEventTime=  12.00]
05911> R1994:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05912>      ADD HYD               5.0 02:R5           140.66     .353 1994.0627_12:30  193.55  n/a     .000
05913>                     +      5.0 02:SOUTH-3        7.98     .025 1994.0627_11:20  193.44  n/a     .000
05914>                   SUM=     5.0 01:J6           148.64     .372 1994.0627_12:25  193.55  n/a     .000
05915> R1994:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05916>      SAVE HYD              5.0 01:J6           148.64     .372 1994.0627_12:25  193.55  n/a     .000
05917>         fname:iJ6.1994
05918>         remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
05919> R1994:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05920>      ROUTE CHANNEL    ->     5.0 02:J6           148.64     .372 1994.0627_12:25  193.55  n/a     .000
05921>        [RDT= 5.00] out<-     5.0 01:R6           148.64     .371 1994.0627_12:35  193.55  n/a     .000
05922>         [L/S/n=  323./ .440/.035]
05923>         [Vmax=  .541:Dmax=  .270]
05924> R1994:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05925>      CONTINUOUS NASHYD     5.0 01:SOUTH-4       14.99     .037 1994.0627_11:45  193.35 .376     .000
05926>         [CN= 39.5: N= 3.00: Tp= 1.23]
05927>         [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
05928>         [InterEventTime=  12.00]
05929> R1994:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05930>      ADD HYD               5.0 02:R6           148.64     .371 1994.0627_12:35  193.55  n/a     .000
05931>                     +      5.0 02:SOUTH-4       14.99     .037 1994.0627_11:45  193.35  n/a     .000
05932>                   SUM=     5.0 01:Total        163.63     .405 1994.0627_12:30  193.53  n/a     .000
05933> #=============================================================================
05934> #=============================================================================
05935> ###############################################################################
05936> # CONTINUOUS RAINFALL DATA                                                    #
05937> ###############################################################################
05938> #*****************************************************************************
05939> # STORMS                                                                      #
05940> #*****************************************************************************
05941>   ** END OF RUN : 1994
05942>
05943> *****************************************************************************
05944>
05945>
05946>
05947>
05948>
05949>  RUN#:COMMAND#
05950> R1995:C00001------------------------------------------------------------------------------
05951>       START
05952>       [TZERO =    .00 hrs on 19950401]
05953>       [METOUT=   2      (1=imperial, 2=metric output)]
05954>       [NSTORM=   0 ]
05955>       [NRUN  = 1995 ]
05956> #*****************************************************************************
05957> #  SWMHYMO  / INPUT DATA FILE
05958> #*****************************************************************************
05959> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
05960> #  Date        : 04-28-2021
05961> #  Modeller    : [J.B]
05962> #  Company     : JFSAinc.
05963> #  License #   : 2549237
05964> #*****************************************************************************
05965> #*****************************************************************************
05966> #*****************************************************************************
05967> # Ottawa International Airport - April 1st to October 31st
05968> R1995:c00002------------------------------------------------------------------------------
05969> *  READ ARS DATA
05970>       [Filename  = YOW_1967_2007.123                                        ]
05971>       [Start_date= 1995.0401: End_date= 1995.1031]
05972>       (DT= 60.min: Length= 5136.hrs: WetHrs=  219: DryHrs= 4917: PTOT= 414.80)
05973>       Maximum average rainfall intensities over
05974>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
05975>        16.90    13.25    11.33     8.98     6.35     3.48     2.95     2.21     1.48    mm/hr
05976>        16.90    26.50    34.00    53.90    76.20    83.40   106.20   106.20   106.20    mm
05977>       19950603 19950603 19951006 19951006 19951006 19951006 19951007 19951007 19951008  date
05978>       Number of rainfall events per following interevent time
05979>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
05980>           61       51       46       39       36       31       26       23       15
05981>       Number of events with at least the following durations
05982>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
05983>           60       35       23       10        5        0        0        0        0
05984> R1995:c00003------------------------------------------------------------------------------
05985>       COMPUTE API
05986>       [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
05987>       [APImax= 99.57: APIavg= 19.23: APImin=  .00]
05988> R1995:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05989>      CONTINUOUS NASHYD     5.0 01:NORTH-1       34.70     .185 1995.0603_12:05  202.02 .487     .000
05990>         [CN= 38.1: N= 3.00: Tp= 4.12]
05991>         [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
05992>         [InterEventTime=  12.00]
05993> R1995:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05994>      CONTINUOUS NASHYD     5.0 01:NORTH-2       12.44     .181 1995.0603_ 9:40  210.34 .507     .000
05995>         [CN= 53.0: N= 3.00: Tp= 1.29]
05996>         [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
05997>         [InterEventTime=  12.00]
05998> R1995:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05999>      CONTINUOUS NASHYD     5.0 01:HWY-1          2.36     .056 1995.1006_ 7:25  231.48 .558     .000
06000>         [CN= 81.7: N= 3.00: Tp= 1.21]
06001>         [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
06002>         [InterEventTime=  12.00]
06003> R1995:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06004>      ADD HYD               5.0 02:NORTH-1       34.70     .185 1995.0603_12:05  202.02  n/a     .000
06005>                     +      5.0 02:NORTH-2       12.44     .181 1995.0603_ 9:40  210.34  n/a     .000
06006>                     +      5.0 02:HWY-1          2.36     .056 1995.1006_ 7:25  231.48  n/a     .000
06007>                   SUM=     5.0 01:J1            49.51     .373 1995.0603_10:00  205.52  n/a     .000
06008> R1995:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06009>      ROUTE CHANNEL    ->     5.0 02:J1            49.51     .373 1995.0603_10:00  205.52  n/a     .000
06010> *    [RDT= 5.00] out<-     5.0 01:R1            49.51     .371 1995.0603_10:10  205.52  n/a     .000
06011>         [L/S/n=  478./ .440/.035]
06012>         [Vmax=  .560:Dmax=  .289]
06013> R1995:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06014>      CONTINUOUS NASHYD     5.0 01:INT-1          4.39     .066 1995.0603_10:05  215.10 .519     .000
06015>         [CN= 60.4: N= 3.00: Tp= 1.66]
06016>         [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
06017>         [InterEventTime=  12.00]
06018> R1995:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06019>      CONTINUOUS NASHYD     5.0 01:INT-2          3.61     .053 1995.0603_ 9:25  206.90 .499     .000
06020>         [CN= 47.4: N= 3.00: Tp=  .95]
06021>         [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
06022>         [InterEventTime=  12.00]
06023> R1995:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06024>      CONTINUOUS NASHYD     5.0 01:A3A            3.84     .059 1995.0603_ 9:50  213.74 .515     .000
06025>         [CN= 58.4: N= 3.00: Tp= 1.46]
06026>         [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
06027>         [InterEventTime=  12.00]
06028> R1995:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06029>      CONTINUOUS NASHYD     5.0 01:A3B            5.29     .060 1995.0603_ 9:40  204.13 .492     .000
06030>         [CN= 42.6: N= 3.00: Tp= 1.26]
06031>         [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
06032>         [InterEventTime=  12.00]
06033> R1995:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06034>      CONTINUOUS NASHYD     5.0 01:A3C            1.21     .014 1995.0603_ 9:20  201.32 .485     .000
06035>         [CN= 37.8: N= 3.00: Tp=  .87]
06036>         [IaREC= 6.00: SMIN=179.29: SMAX=******: SK= .030]
06037>         [InterEventTime=  12.00]
06038> R1995:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06039>      ROUTE CHANNEL    ->     5.0 02:A3C            1.21     .014 1995.0603_ 9:20  201.32  n/a     .000
06040> *    [RDT= 5.00] out<-     5.0 01:A3C-R          1.21     .012 1995.0603_ 9:50  201.32  n/a     .000
06041>         [L/S/n=  500./ .140/.035]
06042>         [Vmax=  .143:Dmax=  .075]
06043> R1995:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06044>      CONTINUOUS NASHYD     5.0 01:INT-3          5.71     .108 1995.0603_ 9:20  213.74 .515     .000
06045>         [CN= 58.5: N= 3.00: Tp=  .89]
06046>         [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
06047>         [InterEventTime=  12.00]
06048> R1995:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06049>      ADD HYD               5.0 02:R1            49.51     .371 1995.0603_10:10  205.52  n/a     .000
06050>                     +      5.0 02:INT-1          4.39     .066 1995.0603_10:05  215.10  n/a     .000
06051>                     +      5.0 02:INT-2          3.61     .053 1995.0603_ 9:25  206.90  n/a     .000
06052>                     +      5.0 02:INT-3          5.71     .108 1995.0603_ 9:20  213.74  n/a     .000
06053>                     +      5.0 02:A3A            3.84     .059 1995.0603_ 9:50  213.74  n/a     .000
06054>                     +      5.0 02:A3B            5.29     .060 1995.0603_ 9:40  204.13  n/a     .000
06055>                     +      5.0 02:A3C-R          1.21     .012 1995.0603_ 9:50  201.32  n/a     .000
06056>                   SUM=     5.0 01:J2            73.56     .704 1995.0603_ 9:45  207.06  n/a     .000
06057> R1995:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06058>      ROUTE CHANNEL    ->     5.0 02:J2            73.56     .704 1995.0603_ 9:45  207.06  n/a     .000
06059> *    [RDT= 5.00] out<-     5.0 01:R2            73.56     .703 1995.0603_ 9:55  207.06  n/a     .000
06060>         [L/S/n=  359./ .560/.035]
06061>         [Vmax=  .703:Dmax=  .257]
06062> R1995:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06063>      CONTINUOUS NASHYD     5.0 01:A1A           21.43     .173 1995.0603_10:10  200.61 .484     .000
06064>         [CN= 36.1: N= 3.00: Tp= 1.68]
06065>         [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
06066>         [InterEventTime=  12.00]
06067> R1995:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06068>      CONTINUOUS NASHYD     5.0 01:A1B            4.70     .047 1995.0603_10:10  204.82 .494     .000
06069>         [CN= 44.6: N= 3.00: Tp= 1.72]
06070>         [IaREC= 6.00: SMIN=134.47: SMAX=896.47: SK= .030]
06071>         [InterEventTime=  12.00]
06072> R1995:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06073>      CONTINUOUS NASHYD     5.0 01:A2             9.14     .188 1995.0603_ 9:30  220.51 .532     .000
06074>         [CN= 68.4: N= 3.00: Tp= 1.12]
06075>         [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
06076>         [InterEventTime=  12.00]
06077> R1995:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06078>      ADD HYD               5.0 02:R2            73.56     .703 1995.0603_ 9:55  207.06  n/a     .000
06079>                     +      5.0 02:A1A           21.43     .173 1995.0603_10:10  200.61  n/a     .000
06080>                     +      5.0 02:A1B            4.70     .047 1995.0603_10:10  204.82  n/a     .000
06081>                     +      5.0 02:A2             9.14     .188 1995.0603_ 9:30  220.51  n/a     .000
06082>                   SUM=     5.0 01:J3           108.84    1.099 1995.0603_ 9:50  206.82  n/a     .000
06083> R1995:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06084>      ROUTE CHANNEL    ->     5.0 02:J3           108.84    1.099 1995.0603_ 9:50  206.82  n/a     .000
06085> *    [RDT= 5.00] out<-     5.0 01:R3           108.84    1.092 1995.0603_10:00  206.82  n/a     .000
06086>         [L/S/n=  396./ .305/.035]
06087>         [Vmax=  .520:Dmax=  .420]
06088> R1995:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06089>      CONTINUOUS NASHYD     5.0 01:SOUTH-1       20.21     .170 1995.0603_ 9:50  199.90 .482     .000
06090>         [CN= 35.5: N= 3.00: Tp= 1.40]
06091>         [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
06092>         [InterEventTime=  12.00]
06093> R1995:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06094>      ADD HYD               5.0 02:R3           108.84    1.092 1995.0603_10:00  206.82  n/a     .000
06095>                     +      5.0 02:SOUTH-1       20.21     .170 1995.0603_ 9:50  199.90  n/a     .000
06096>                   SUM=     5.0 01:J4           129.05    1.262 1995.0603_10:00  205.74  n/a     .000
06097> R1995:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06098>      ROUTE CHANNEL    ->     5.0 02:J4           129.05    1.262 1995.0603_10:00  205.74  n/a     .000
06099> *    [RDT= 5.00] out<-     5.0 01:R4           129.05    1.252 1995.0603_10:10  205.74  n/a     .000
06100>         [L/S/n=  482./ .410/.035]
06101>         [Vmax=  .669:Dmax=  .443]
06102> R1995:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06103>      CONTINUOUS NASHYD     5.0 01:SOUTH-2       11.61     .121 1995.0603_ 9:25  200.61 .484     .000
06104>         [CN= 36.7: N= 3.00: Tp=  .96]
06105>         [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
06106>         [InterEventTime=  12.00]
06107> R1995:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06108>      ADD HYD               5.0 02:R4           129.05    1.252 1995.0603_10:10  205.74  n/a     .000
06109>                     +      5.0 02:SOUTH-2       11.61     .121 1995.0603_ 9:25  200.61  n/a     .000
06110>                   SUM=     5.0 01:J5           140.66    1.354 1995.0603_10:05  205.31  n/a     .000
06111> R1995:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06112>      ROUTE CHANNEL    ->     5.0 02:J5           140.66    1.354 1995.0603_10:05  205.31  n/a     .000
06113> *    [RDT= 5.00] out<-     5.0 01:R5           140.66    1.353 1995.0603_10:10  205.31  n/a     .000
06114>         [L/S/n=  181./ .500/.035]
06115>         [Vmax=  .656:Dmax=  .391]
06116> R1995:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06117>      CONTINUOUS NASHYD     5.0 01:SOUTH-3        7.98     .104 1995.0603_ 9:20  204.13 .492     .000
06118>         [CN= 42.6: N= 3.00: Tp=  .89]
06119>         [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
06120>         [InterEventTime=  12.00]
```

```
06121> R1995:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06122>     ADD HYD                5.0 02:R5          140.66    1.353 1995.0603_10:10  205.31  n/a     .000
06123>                  +     5.0 02:SOUTH-3          7.98     .104 1995.0603_ 9:20  204.13  n/a     .000
06124>                SUM=    5.0 01:J6          148.64    1.436 1995.0603_10:05  205.25  n/a     .000
06125> R1995:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06126>     SAVE HYD               5.0 01:J6          148.64    1.436 1995.0603_10:05  205.25  n/a     .000
06127>       fname :J6.1995
06128>       remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
06129> R1995:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06130>     ROUTE CHANNEL   ->     5.0 02:J6          148.64    1.436 1995.0603_10:05  205.25  n/a     .000
06131> *   [RDT= 5.00] out<-     5.0 01:R6          148.64    1.431 1995.0603_10:15  205.25  n/a     .000
06132>       [L/S/n=  323./ .440/.035]
06133>       (Vmax=   .706:Dmax=   .460)
06134> R1995:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06135>     CONTINUOUS NASHYD      5.0 01:SOUTH-4      14.99     .153 1995.0603_ 9:40  202.02 .487     .000
06136>       [CN= 39.5: N= 3.00: Tp= 1.23]
06137>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
06138>       [InterEventTime=  12.00]
06139> R1995:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06140>     ADD HYD                5.0 02:R6          148.64    1.431 1995.0603_10:15  205.25  n/a     .000
06141>                  +     5.0 02:SOUTH-4      14.99     .153 1995.0603_ 9:40  202.02  n/a     .000
06142>                SUM=    5.0 01:Total       163.63    1.576 1995.0603_10:10  204.95  n/a     .000
06143> #=============================================================================
06144> #=============================================================================
06145> ###############################################################################
06146> # CONTINUOUS RAINFALL DATA
06147> ###############################################################################
06148> #*****************************************************************************
06149> # STORMS
06150> #*****************************************************************************
06151>   ** END OF RUN : 1995
06152>
06153> *******************************************************************************************************
06154>
06155>
06156>
06157>
06158>
06159>  RUN#:COMMAND#
06160> R1996:C00001------------------------------------------------------------------------------------------
06161>      START
06162>        [TZERO =    .00 hrs on 19960401]
06163>        [METOUT=  2    (1=imperial, 2=metric output)]
06164>        [NSTORM=  0 ]
06165>        [NRUN  = 1996 ]
06166> #*****************************************************************************
06167> #  SWMHYMO  / INPUT DATA FILE
06168> #*****************************************************************************
06169> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
06170> #  Date        : 04-28-2021
06171> #  Modeller    : [J.B]
06172> #  Company     : JFSAinc.
06173> #  License #   : 2549237
06174> #*****************************************************************************
06175> #*****************************************************************************
06176> #*****************************************************************************
06177> # Ottawa International Airport - April 1st to October 31st
06178> R1996:C00002------------------------------------------------------------------------------------------
06179>  *  READ AES DATA
06180>        [Filename  = YOW_1967_2007.123                                          ]
06181>        [Start_date= 1996.0401: End_date= 1996.1031]
06182>        [DT= 60.min: Length= 4392.hrs: WetHrs=  306: DryHrs= 4086: PTOT= 426.50]
06183>        Maximum average rainfall intensities over
06184>          1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
06185>         18.50    13.55     9.03     5.42     2.93     1.60     1.25      .99      .70    mm/hr
06186>         18.50    27.10    27.10    32.50    35.10    38.50    45.10    47.50    50.30    mm
06187>        19960731 19960731 19960731 19960731 19960731 19960731 19960731 19960801 19960802  date
06188>        Number of rainfall events per following intervent time
06189>          1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
06190>           111       87       78       63       53       38       31       26       19
06191>        Number of events with at least the following durations
06192>          1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
06193>           110       63       42       14        1        0        0        0        0
06194> R1996:C00003------------------------------------------------------------------------------------------
06195>      COMPUTE API
06196>        [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
06197>        [APImax= 63.22: APIavg= 23.08: APImin=  4.15]
06198> R1996:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06199>     CONTINUOUS NASHYD      5.0 01:NORTH-1      34.70     .039 1996.0731_20:40  115.53 .271     .000
06200>       [CN= 38.1: N= 3.00: Tp= 4.12]
06201>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
06202>       [InterEventTime=  12.00]
06203> R1996:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06204>     CONTINUOUS NASHYD      5.0 01:NORTH-2      12.44     .045 1996.0731_16:40  116.75 .274     .000
06205>       [CN= 53.0: N= 3.00: Tp= 1.29]
06206>       [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
06207>       [InterEventTime=  12.00]
06208> R1996:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06209>     CONTINUOUS NASHYD      5.0 01:HWY-1         2.36     .023 1996.0731_16:35  122.64 .288     .000
06210>       [CN= 81.7: N= 3.00: Tp= 1.21]
06211>       [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
06212>       [InterEventTime=  12.00]
06213> R1996:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06214>     ADD HYD                5.0 02:NORTH-1      34.70     .039 1996.0731_20:40  115.53  n/a     .000
06215>                  +     5.0 02:NORTH-2      12.44     .045 1996.0731_16:40  116.75  n/a     .000
06216>                  +     5.0 02:HWY-1         2.36     .023 1996.0731_16:35  122.64  n/a     .000
06217>                SUM=    5.0 01:J1          49.51     .086 1996.0731_16:50  116.18  n/a     .000
06218> R1996:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06219>     ROUTE CHANNEL   ->     5.0 02:J1          49.51     .086 1996.0731_16:50  116.18  n/a     .000
06220> *   [RDT= 5.00] out<-     5.0 01:R1          49.51     .083 1996.0731_17:05  116.18  n/a     .000
06221>       [L/S/n=  478./ .440/.035]
06222>       (Vmax=   .376:Dmax=   .156)
06223> R1996:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06224>     CONTINUOUS NASHYD      5.0 01:INT-1         4.39     .017 1996.0731_17:00  117.62 .276     .000
06225>       [CN= 60.4: N= 3.00: Tp= 1.66]
06226>       [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
06227>       [InterEventTime=  12.00]
06228> R1996:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06229>     CONTINUOUS NASHYD      5.0 01:INT-2         3.61     .013 1996.0731_16:25  116.21 .272     .000
06230>       [CN= 47.4: N= 3.00: Tp=  .95]
06231>       [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
06232>       [InterEventTime=  12.00]
06233> R1996:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06234>     CONTINUOUS NASHYD      5.0 01:A3A           3.84     .015 1996.0731_16:50  117.36 .275     .000
06235>       [CN= 58.4: N= 3.00: Tp= 1.46]
06236>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
06237>       [InterEventTime=  12.00]
06238> R1996:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06239>     CONTINUOUS NASHYD      5.0 01:A3B           5.29     .013 1996.0731_16:40  115.82 .272     .000
06240>       [CN= 42.6: N= 3.00: Tp= 1.26]
06241>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
06242>       [InterEventTime=  12.00]
06243> R1996:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06244>     CONTINUOUS NASHYD      5.0 01:A3C           1.21     .003 1996.0731_16:25  115.44 .271     .000
06245>       [CN= 37.8: N= 3.00: Tp=  .87]
06246>       [IaREC= 6.00: SMIN=179.29: SMAX=******: SK= .030]
06247>       [InterEventTime=  12.00]
06248> R1996:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06249>     ROUTE CHANNEL   ->     5.0 02:A3C           1.21     .003 1996.0731_16:25  115.44  n/a     .000
06250> *   [RDT= 5.00] out<-     5.0 01:A3C-R         1.21     .002 1996.0731_18:40  115.44  n/a     .000
06251>       [L/S/n=  500./ .140/.035]
06252>       (Vmax=   .078:Dmax=   .040)
06253> R1996:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06254>     CONTINUOUS NASHYD      5.0 01:INT-3         5.71     .031 1996.0731_16:20  117.36 .275     .000
06255>       [CN= 58.5: N= 3.00: Tp=  .89]
06256>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
06257>       [InterEventTime=  12.00]
06258> R1996:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06259>     ADD HYD                5.0 02:R1          49.51     .083 1996.0731_17:05  116.18  n/a     .000
06260>                  +     5.0 02:INT-1         4.39     .017 1996.0731_17:00  117.62  n/a     .000
06261>                  +     5.0 02:INT-2         3.61     .013 1996.0731_16:25  116.21  n/a     .000
06262>                  +     5.0 02:INT-3         5.71     .031 1996.0731_16:20  117.36  n/a     .000
06263>                  +     5.0 02:A3A           3.84     .015 1996.0731_16:50  117.36  n/a     .000
06264>                  +     5.0 02:A3B           5.29     .013 1996.0731_16:40  115.82  n/a     .000
06265>                  +     5.0 02:A3C-R         1.21     .002 1996.0731_18:40  115.44  n/a     .000
06266>                SUM=    5.0 01:J2          73.56     .167 1996.0731_16:45  116.38  n/a     .000
06267> R1996:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06268>     ROUTE CHANNEL   ->     5.0 02:J2          73.56     .167 1996.0731_16:45  116.38  n/a     .000
06269> *   [RDT= 5.00] out<-     5.0 01:R2          73.56     .164 1996.0731_16:55  116.38  n/a     .000
06270>       [L/S/n=  359./ .560/.035]
06271>       (Vmax=   .425:Dmax=   .125)
06272> R1996:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06273>     CONTINUOUS NASHYD      5.0 01:A1A          21.43     .035 1996.0731_17:05  115.36 .270     .000
06274>       [CN= 36.1: N= 3.00: Tp= 1.68]
06275>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
06276>       [InterEventTime=  12.00]
06277> R1996:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06278>     CONTINUOUS NASHYD      5.0 01:A1B           4.70     .010 1996.0731_17:05  115.92 .272     .000
06279>       [CN= 44.6: N= 3.00: Tp= 1.72]
06280>       [IaREC= 6.00: SMIN=134.47: SMAX=896.47: SK= .030]
06281>       [InterEventTime=  12.00]
06282> R1996:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06283>     CONTINUOUS NASHYD      5.0 01:A2            9.14     .060 1996.0731_16:30  118.82 .279     .000
06284>       [CN= 68.4: N= 3.00: Tp= 1.12]
06285>       [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
06286>       [InterEventTime=  12.00]
06287> R1996:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06288>     ADD HYD                5.0 02:R2          73.56     .164 1996.0731_16:55  116.38  n/a     .000
06289>                  +     5.0 02:A1A          21.43     .035 1996.0731_17:05  115.36  n/a     .000
06290>                  +     5.0 02:A1B           4.70     .010 1996.0731_17:05  115.92  n/a     .000
06291>                  +     5.0 02:A2            9.14     .060 1996.0731_16:30  118.81  n/a     .000
06292>                SUM=    5.0 01:J3          108.84     .264 1996.0731_16:50  116.36  n/a     .000
06293> R1996:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06294>     ROUTE CHANNEL   ->     5.0 02:J3          108.84     .264 1996.0731_16:50  116.36  n/a     .000
06295> *   [RDT= 5.00] out<-     5.0 01:R3          108.84     .256 1996.0731_17:10  116.36  n/a     .000
06296>       [L/S/n=  396./ .305/.035]
06297>       (Vmax=   .390:Dmax=   .258)
06298> R1996:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06299>     CONTINUOUS NASHYD      5.0 01:SOUTH-1      20.21     .035 1996.0731_16:50  115.27 .270     .000
06300>       [CN= 35.5: N= 3.00: Tp= 1.40]
06301>       [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
06302>       [InterEventTime=  12.00]
06303> R1996:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06304>     ADD HYD                5.0 02:R3          108.84     .256 1996.0731_17:10  116.36  n/a     .000
06305>                  +     5.0 02:SOUTH-1      20.21     .035 1996.0731_16:50  115.27  n/a     .000
06306>                SUM=    5.0 01:J4          129.05     .290 1996.0731_17:05  116.19  n/a     .000
06307> R1996:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06308>     ROUTE CHANNEL   ->     5.0 02:J4          129.05     .290 1996.0731_17:05  116.19  n/a     .000
06309> *   [RDT= 5.00] out<-     5.0 01:R4          129.05     .286 1996.0731_17:15  116.19  n/a     .000
06310>       [L/S/n=  482./ .410/.035]
06311>       (Vmax=   .506:Dmax=   .251)
06312> R1996:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06313>     CONTINUOUS NASHYD      5.0 01:SOUTH-2      11.61     .027 1996.0731_16:25  115.36 .270     .000
06314>       [CN= 36.7: N= 3.00: Tp=  .96]
06315>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
06316>       [InterEventTime=  12.00]
06317> R1996:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06318>     ADD HYD                5.0 02:R4          129.05     .286 1996.0731_17:15  116.19  n/a     .000
06319>                  +     5.0 02:SOUTH-2      11.61     .027 1996.0731_16:25  115.36  n/a     .000
06320>                SUM=    5.0 01:J5          140.66     .304 1996.0731_17:15  116.12  n/a     .000
06321> R1996:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06322>     ROUTE CHANNEL   ->     5.0 02:J5          140.66     .304 1996.0731_17:15  116.12  n/a     .000
06323> *   [RDT= 5.00] out<-     5.0 01:R5          140.66     .304 1996.0731_17:20  116.12  n/a     .000
06324>       [L/S/n=  181./ .500/.035]
06325>       (Vmax=   .484:Dmax=   .238)
06326> R1996:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06327>     CONTINUOUS NASHYD      5.0 01:SOUTH-3       7.98     .025 1996.0731_16:25  115.82 .272     .000
06328>       [CN= 42.6: N= 3.00: Tp=  .89]
06329>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
06330>       [InterEventTime=  12.00]
06331> R1996:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06332>     ADD HYD                5.0 02:R5          140.66     .304 1996.0731_17:20  116.12  n/a     .000
06333>                  +     5.0 02:SOUTH-3       7.98     .025 1996.0731_16:25  115.82  n/a     .000
06334>                SUM=    5.0 01:J6          148.64     .319 1996.0731_17:15  116.11  n/a     .000
06335> R1996:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06336>     SAVE HYD               5.0 01:J6          148.64     .319 1996.0731_17:15  116.11  n/a     .000
06337>       fname :J6.1996
06338>       remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
06339> R1996:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06340>     ROUTE CHANNEL   ->     5.0 02:J6          148.64     .319 1996.0731_17:15  116.11  n/a     .000
06341> *   [RDT= 5.00] out<-     5.0 01:R6          148.64     .316 1996.0731_17:25  116.11  n/a     .000
06342>       [L/S/n=  323./ .440/.035]
06343>       (Vmax=   .529:Dmax=   .256)
06344> R1996:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06345>     CONTINUOUS NASHYD      5.0 01:SOUTH-4      14.99     .034 1996.0731_16:40  115.53 .271     .000
06346>       [CN= 39.5: N= 3.00: Tp= 1.23]
06347>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
06348>       [InterEventTime=  12.00]
06349> R1996:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06350>     ADD HYD                5.0 02:R6          148.64     .316 1996.0731_17:25  116.11  n/a     .000
06351>                  +     5.0 02:SOUTH-4      14.99     .034 1996.0731_16:40  115.53  n/a     .000
06352>                SUM=    5.0 01:Total       163.63     .344 1996.0731_17:20  116.05  n/a     .000
06353> #=============================================================================
06354> #=============================================================================
06355> ###############################################################################
06356> # CONTINUOUS RAINFALL DATA
06357> ###############################################################################
06358> #*****************************************************************************
06359> # STORMS
06360> #*****************************************************************************
06361>   ** END OF RUN : 1996
06362>
06363> *******************************************************************************************************
06364>
06365>
06366>
06367>
06368>
06369>  RUN#:COMMAND#
06370> R1997:C00001------------------------------------------------------------------------------------------
06371>      START
06372>        [TZERO =    .00 hrs on 19970401]
06373>        [METOUT=  2    (1=imperial, 2=metric output)]
06374>        [NSTORM=  0 ]
06375>        [NRUN  = 1997 ]
06376> #*****************************************************************************
06377> #  SWMHYMO  / INPUT DATA FILE
06378> #*****************************************************************************
06379> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
06380> #  Date        : 04-28-2021
06381> #  Modeller    : [J.B]
06382> #  Company     : JFSAinc.
06383> #  License #   : 2549237
06384> #*****************************************************************************
06385> #*****************************************************************************
06386> #*****************************************************************************
06387> # Ottawa International Airport - April 1st to October 31st
06388> R1997:C00002------------------------------------------------------------------------------------------
06389>  *  READ AES DATA
06390>        [Filename  = YOW_1967_2007.123                                          ]
06391>        [Start_date= 1997.0401: End_date= 1997.1031]
06392>        [DT= 60.min: Length= 5136.hrs: WetHrs=  300: DryHrs= 4836: PTOT= 332.10]
06393>        Maximum average rainfall intensities over
06394>          1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
06395>         12.50     7.60     5.67     3.15     1.78      .99      .69      .52      .49    mm/hr
06396>         12.50    15.20    17.00    18.90    21.40    23.80    25.00    25.00    35.60    mm
06397>        19970622 19970622 19970622 19970503 19970503 19970503 19970822 19970822 19970822  date
06398>        Number of rainfall events per following intervent time
06399>          1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
06400>            92       76       68       54       50       45       39       35       22
06401>        Number of events with at least the following durations
06402>          1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
06403>            91       54       35       15        4        0        0        0        0
06404> R1997:C00003------------------------------------------------------------------------------------------
06405>      COMPUTE API
06406>        [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
06407>        [APImax= 50.00: APIavg= 16.84: APImin=  .38]
06408> R1997:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06409>     CONTINUOUS NASHYD      5.0 01:NORTH-1      34.70     .011 1997.0503_17:50   95.16 .287     .000
06410>       [CN= 38.1: N= 3.00: Tp= 4.12]
06411>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
06412>       [InterEventTime=  12.00]
06413> R1997:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06414>     CONTINUOUS NASHYD      5.0 01:NORTH-2      12.44     .012 1997.0503_15:20   95.69 .288     .000
06415>       [CN= 53.0: N= 3.00: Tp= 1.29]
06416>       [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
06417>       [InterEventTime=  12.00]
06418> R1997:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06419>     CONTINUOUS NASHYD      5.0 01:HWY-1         2.36     .007 1997.0622_ 4:55   98.46 .296     .000
06420>       [CN= 81.7: N= 3.00: Tp= 1.21]
06421>       [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
06422>       [InterEventTime=  12.00]
06423> R1997:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06424>     ADD HYD                5.0 02:NORTH-1      34.70     .011 1997.0503_17:50   95.16  n/a     .000
06425>                  +     5.0 02:NORTH-2      12.44     .012 1997.0503_15:20   95.69  n/a     .000
06426>                  +     5.0 02:HWY-1         2.36     .007 1997.0622_ 4:55   98.46  n/a     .000
06427>                SUM=    5.0 01:J1          49.51     .027 1997.0503_15:30   95.45  n/a     .000
06428> R1997:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06429>     ROUTE CHANNEL   ->     5.0 02:J1          49.51     .027 1997.0503_15:30   95.45  n/a     .000
06430> *   [RDT= 5.00] out<-     5.0 01:R1          49.51     .026 1997.0503_15:50   95.45  n/a     .000
06431>       [L/S/n=  478./ .440/.035]
06432>       (Vmax=   .260:Dmax=   .097)
06433> R1997:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06434>     CONTINUOUS NASHYD      5.0 01:INT-1         4.39     .005 1997.0503_15:35   96.09 .289     .000
06435>       [CN= 60.4: N= 3.00: Tp= 1.66]
06436>       [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
06437>       [InterEventTime=  12.00]
06438> R1997:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06439>     CONTINUOUS NASHYD      5.0 01:INT-2         3.61     .003 1997.0622_ 4:40   95.45 .287     .000
06440>       [CN= 47.4: N= 3.00: Tp=  .95]
06441>       [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
06442>       [InterEventTime=  12.00]
06443> R1997:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06444>     CONTINUOUS NASHYD      5.0 01:A3A           3.84     .004 1997.0503_15:30   95.97 .289     .000
06445>       [CN= 58.4: N= 3.00: Tp= 1.46]
06446>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
06447>       [InterEventTime=  12.00]
06448> R1997:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06449>     CONTINUOUS NASHYD      5.0 01:A3B           5.29     .004 1997.0503_15:20   95.27 .287     .000
06450>       [CN= 42.6: N= 3.00: Tp= 1.26]
06451>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
06452>       [InterEventTime=  12.00]
06453> R1997:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06454>     CONTINUOUS NASHYD      5.0 01:A3C           1.21     .001 1997.0622_ 4:35   95.12 .286     .000
06455>       [CN= 37.8: N= 3.00: Tp=  .87]
06456>       [IaREC= 6.00: SMIN=179.29: SMAX=******: SK= .030]
06457>       [InterEventTime=  12.00]
06458> R1997:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06459>     ROUTE CHANNEL   ->     5.0 02:A3C           1.21     .001 1997.0622_ 4:35   95.12  n/a     .000
06460> *   [RDT= 5.00] out<-     5.0 01:A3C-R         1.21     .000 1997.0503_16:10   95.12  n/a     .000
06461>       [L/S/n=  500./ .140/.035]
06462>       (Vmax=   .057:Dmax=   .025)
06463> R1997:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06464>     CONTINUOUS NASHYD      5.0 01:INT-3         5.71     .008 1997.0622_ 4:40   95.97 .289     .000
06465>       [CN= 58.5: N= 3.00: Tp=  .89]
06466>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
06467>       [InterEventTime=  12.00]
06468> R1997:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06469>     ADD HYD                5.0 02:R1          49.51     .026 1997.0503_15:50   95.45  n/a     .000
06470>                  +     5.0 02:INT-1         4.39     .005 1997.0503_15:35   96.09  n/a     .000
06471>                  +     5.0 02:INT-2         3.61     .003 1997.0622_ 4:40   95.45  n/a     .000
06472>                  +     5.0 02:INT-3         5.71     .008 1997.0622_ 4:40   95.97  n/a     .000
06473>                  +     5.0 02:A3A           3.84     .004 1997.0503_15:30   95.97  n/a     .000
06474>                  +     5.0 02:A3B           5.29     .004 1997.0503_15:20   95.27  n/a     .000
06475>                  +     5.0 02:A3C-R         1.21     .000 1997.0503_16:10   95.12  n/a     .000
06476>                SUM=    5.0 01:J2          73.56     .047 1997.0503_15:30   95.54  n/a     .000
06477> R1997:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06478>     ROUTE CHANNEL   ->     5.0 02:J2          73.56     .047 1997.0503_15:30   95.54  n/a     .000
06479> *   [RDT= 5.00] out<-     5.0 01:R2          73.56     .047 1997.0503_15:40   95.54  n/a     .000
06480>       [L/S/n=  359./ .560/.035]
```

```
06481>       (Vmax=  .265:Dmax=  .069)
06482> R1997:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06483>     CONTINUOUS NASHYD     5.0 01:A1A            21.43     .010 1997.0503_15:40   95.08 .286     .000
06484>       [CN= 36.1: N= 3.00: Tp= 1.68]
06485>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
06486>       [InterEventTime=  12.00]
06487> R1997:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06488>     CONTINUOUS NASHYD     5.0 01:A1B             4.70     .003 1997.0503_15:40   95.32 .287     .000
06489>       [CN= 44.6: N= 3.00: Tp= 1.72]
06490>       [IaREC= 6.00: SMIN=134.47: SMAX=896.47: SK= .030]
06491>       [InterEventTime=  12.00]
06492> R1997:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06493>     CONTINUOUS NASHYD     5.0 01:A2              9.14     .016 1997.0622_ 4:50   96.66 .291     .000
06494>       [CN= 68.4: N= 3.00: Tp= 1.12]
06495>       [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
06496>       [InterEventTime=  12.00]
06497> R1997:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06498>     ADD HYD               5.0 02:R2             73.56     .047 1997.0503_15:40   95.54  n/a     .000
06499>                     +     5.0 02:A1A            21.43     .010 1997.0503_15:40   95.08  n/a     .000
06500>                     +     5.0 02:A1B             4.70     .003 1997.0503_15:40   95.32  n/a     .000
06501>                     +     5.0 02:A2              9.14     .016 1997.0622_ 4:50   96.66  n/a     .000
06502>                   SUM=    5.0 01:J3            108.84     .074 1997.0503_15:30   95.53  n/a     .000
06503> R1997:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06504>     ROUTE CHANNEL   ->    5.0 02:J3            108.84     .074 1997.0503_15:30   95.53  n/a     .000
06505> *   [RDT= 5.00] out<-     5.0 01:R3            108.84     .072 1997.0503_15:50   95.53  n/a     .000
06506>       [L/S/n=  396./ .305/ .035]
06507>       (Vmax=  .297:Dmax=  .152)
06508> R1997:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06509>     CONTINUOUS NASHYD     5.0 01:SOUTH-1        20.21     .010 1997.0503_15:25   95.05 .286     .000
06510>       [CN= 35.5: N= 3.00: Tp= 1.40]
06511>       [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
06512>       [InterEventTime=  12.00]
06513> R1997:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06514>     ADD HYD               5.0 02:R3            108.84     .072 1997.0503_15:50   95.53  n/a     .000
06515>                     +     5.0 02:SOUTH-1        20.21     .010 1997.0503_15:25   95.05  n/a     .000
06516>                   SUM=    5.0 01:J4            129.05     .082 1997.0503_15:45   95.45  n/a     .000
06517> R1997:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06518>     ROUTE CHANNEL   ->    5.0 02:J4            129.05     .082 1997.0503_15:45   95.45  n/a     .000
06519> *   [RDT= 5.00] out<-     5.0 01:R4            129.05     .080 1997.0503_16:05   95.46  n/a     .000
06520>       [L/S/n=  482./ .410/ .035]
06521>       (Vmax=  .344:Dmax=  .149)
06522> R1997:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06523>     CONTINUOUS NASHYD     5.0 01:SOUTH-2        11.61     .007 1997.0622_ 4:45   95.08 .286     .000
06524>       [CN= 36.7: N= 3.00: Tp=  .96]
06525>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
06526>       [InterEventTime=  12.00]
06527> R1997:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06528>     ADD HYD               5.0 02:R4            129.05     .080 1997.0503_16:05   95.46  n/a     .000
06529>                     +     5.0 02:SOUTH-2        11.61     .007 1997.0622_ 4:45   95.08  n/a     .000
06530>                   SUM=    5.0 01:J5            140.66     .085 1997.0503_16:00   95.42  n/a     .000
06531> R1997:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06532>     ROUTE CHANNEL   ->    5.0 02:J5            140.66     .085 1997.0503_16:00   95.42  n/a     .000
06533> *   [RDT= 5.00] out<-     5.0 01:R5            140.66     .085 1997.0503_16:05   95.42  n/a     .000
06534>       [L/S/n=  181./ .500/ .035]
06535>       (Vmax=  .324:Dmax=  .138)
06536> R1997:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06537>     CONTINUOUS NASHYD     5.0 01:SOUTH-3         7.98     .007 1997.0622_ 4:40   95.27 .287     .000
06538>       [CN= 42.6: N= 3.00: Tp=  .89]
06539>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
06540>       [InterEventTime=  12.00]
06541> R1997:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06542>     ADD HYD               5.0 02:R5            140.66     .085 1997.0503_16:05   95.42  n/a     .000
06543>                     +     5.0 02:SOUTH-3         7.98     .007 1997.0622_ 4:40   95.27  n/a     .000
06544>                   SUM=    5.0 01:J6            148.64     .089 1997.0503_16:05   95.42  n/a     .000
06545> R1997:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06546>     SAVE HYD              5.0 01:J6            148.64     .089 1997.0503_16:05   95.42  n/a     .000
06547>       fname :J6.1997
06548>       remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
06549> R1997:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06550>     ROUTE CHANNEL   ->    5.0 02:J6            148.64     .089 1997.0503_16:05   95.42  n/a     .000
06551> *   [RDT= 5.00] out<-     5.0 01:R6            148.64     .088 1997.0503_16:15   95.42  n/a     .000
06552>       [L/S/n=  323./ .440/ .035]
06553>       (Vmax=  .363:Dmax=  .152)
06554> R1997:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06555>     CONTINUOUS NASHYD     5.0 01:SOUTH-4        14.99     .009 1997.0503_15:20   95.16 .287     .000
06556>       [CN= 39.5: N= 3.00: Tp= 1.23]
06557>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
06558>       [InterEventTime=  12.00]
06559> R1997:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06560>     ADD HYD               5.0 02:R6            148.64     .088 1997.0503_16:15   95.42  n/a     .000
06561>                     +     5.0 02:SOUTH-4        14.99     .009 1997.0503_15:20   95.16  n/a     .000
06562>                   SUM=    5.0 01:Total         163.63     .095 1997.0503_16:10   95.39  n/a     .000
06563> #===============================================================
06564> #===============================================================
06565> ###############################################################################
06566> # CONTINUOUS RAINFALL DATA
06567> ###############################################################################
06568> #*****************************************************************************
06569> # STORMS
06570> #*****************************************************************************
06571>   ** END OF RUN : 1997
06572>
06573> *******************************************************************************************************
06574>
06575>
06576>
06577>
06578>
06579>  RUN#:COMMAND#
06580> R1998:C00001------------------------------------------------------------------------------------------
06581>       START
06582>       [TZERO =    .00 hrs on 19980401]
06583>       [METOUT=   2   (1=imperial, 2=metric output)]
06584>       [NSTORM=   0 ]
06585>       [NRUN  = 1998 ]
06586> #*****************************************************************************
06587> #  SWMHYMO  / INPUT DATA FILE
06588> #*****************************************************************************
06589> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
06590> #  Date        : 04-28-2021
06591> #  Modeller    : [J.B]
06592> #  Company     : JFSAinc.
06593> #  License #   :  2549237
06594> #*****************************************************************************
06595> #*****************************************************************************
06596> #*****************************************************************************
06597> # Ottawa International Airport - April 1st to October 31st
06598> R1998:C00002------------------------------------------------------------------------------------------
06599>   *  READ AES DATA
06600>       [Filename  = YOW_1967_2007.123                                          ]
06601>       [Start_date= 1998.0401: End_date= 1998.1031]
06602>       [DT= 60.min: Length= 5064.hrs: WetHrs=  291: DryHrs= 4773: PTOT= 440.30)
06603>       Maximum average rainfall intensities over
06604>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
06605>        15.80    8.90     7.60     4.00     2.54     1.82     1.27      .95      .76     mm/hr
06606>        15.80   17.80    22.80    24.00    30.50    43.60    45.80    45.80    54.60     mm
06607>       19980716 19980627 19980927 19980927 19980927 19980927 19980927 19980928 19980928 19980615  date
06608>       Number of rainfall events per following interevent time
06609>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
06610>          126      104       95       78       63       42       37       32       21
06611>       Number of events with at least the following durations
06612>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
06613>          125       64       43        8        1        0        0        0        0
06614> R1998:C00003------------------------------------------------------------------------------------------
06615>       COMPUTE API
06616>       [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
06617>       [APImax= 57.22: APIavg= 21.30: APImin=  1.69]
06618> R1998:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06619>     CONTINUOUS NASHYD     5.0 01:NORTH-1        34.70     .023 1998.0927_17:55  130.19 .296     .000
06620>       [CN= 38.1: N= 3.00: Tp= 4.12]
06621>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
06622>       [InterEventTime=  12.00]
06623> R1998:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06624>     CONTINUOUS NASHYD     5.0 01:NORTH-2        12.44     .031 1998.0927_15:15  131.29 .298     .000
06625>       [CN= 53.0: N= 3.00: Tp= 1.29]
06626>       [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
06627>       [InterEventTime=  12.00]
06628> R1998:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06629>     CONTINUOUS NASHYD     5.0 01:HWY-1           2.36     .015 1998.0927_15:10  136.32 .310     .000
06630>       [CN= 81.7: N= 3.00: Tp= 1.21]
06631>       [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
06632>       [InterEventTime=  12.00]
06633> R1998:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06634>     ADD HYD               5.0 02:NORTH-1        34.70     .023 1998.0927_17:55  130.19  n/a     .000
06635>                     +     5.0 02:NORTH-2        12.44     .031 1998.0927_15:15  131.29  n/a     .000
06636>                   SUM=    5.0 02:HWY-1           2.36     .015 1998.0927_15:10  136.32  n/a     .000
06637>                   SUM=    5.0 01:J1             49.51     .060 1998.0927_15:20  130.76  n/a     .000
06638> R1998:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06639>     ROUTE CHANNEL   ->    5.0 02:J1             49.51     .060 1998.0927_15:20  130.76 n/a      .000
06640> *   [RDT= 5.00] out<-     5.0 01:R1             49.51     .058 1998.0927_15:45  130.76 n/a      .000
06641>       [L/S/n=  478./ .440/ .035]
06642>       (Vmax=  .335:Dmax=  .134)
06643> R1998:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06644>     CONTINUOUS NASHYD     5.0 01:INT-1           4.39     .011 1998.0927_15:40  132.08 .300     .000
06645>       [CN= 60.4: N= 3.00: Tp= 1.66]
06646>       [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
06647>       [InterEventTime=  12.00]
06648> R1998:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06649>     CONTINUOUS NASHYD     5.0 01:INT-2           3.61     .009 1998.0927_14:50  130.80 .297     .000
06650>       [CN= 47.4: N= 3.00: Tp=  .95]
06651>       [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
06652>       [InterEventTime=  12.00]
06653> R1998:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06654>     CONTINUOUS NASHYD     5.0 01:A3A             3.84     .010 1998.0927_15:25  131.84 .299     .000
06655>       [CN= 58.4: N= 3.00: Tp= 1.46]
06656>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
06657>       [InterEventTime=  12.00]
06658> R1998:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06659>     CONTINUOUS NASHYD     5.0 01:A3B             5.29     .009 1998.0927_15:15  130.44 .296     .000
06660>       [CN= 42.6: N= 3.00: Tp= 1.26]
06661>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
06662>       [InterEventTime=  12.00]
06663> R1998:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06664>     CONTINUOUS NASHYD     5.0 01:A3C             1.21     .002 1998.0927_14:45  130.11 .296     .000
06665>       [CN= 37.8: N= 3.00: Tp=  .87]
06666>       [IaREC= 6.00: SMIN=179.29: SMAX=******: SK= .030]
06667>       [InterEventTime=  12.00]
06668> R1998:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06669>     ROUTE CHANNEL   ->    5.0 02:A3C             1.21     .002 1998.0927_14:45  130.11  n/a     .000
06670> *   [RDT= 5.00] out<-     5.0 01:A3C-R           1.21     .001 1998.0927_15:50  130.11  n/a     .000
06671>       [L/S/n=  500./ .140/ .035]
06672>       (Vmax=  .069:Dmax=  .035)
06673> R1998:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06674>     CONTINUOUS NASHYD     5.0 01:INT-3           5.71     .022 1998.0927_14:45  131.84 .299     .000
06675>       [CN= 58.5: N= 3.00: Tp=  .89]
06676>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
06677>       [InterEventTime=  12.00]
06678> R1998:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06679>     ADD HYD               5.0 02:R1             49.51     .058 1998.0927_15:45  130.76  n/a     .000
06680>                     +     5.0 02:INT-1           4.39     .011 1998.0927_15:40  132.08  n/a     .000
06681>                     +     5.0 02:INT-2           3.61     .009 1998.0927_14:50  130.80  n/a     .000
06682>                     +     5.0 02:INT-3           5.71     .022 1998.0927_14:45  131.84  n/a     .000
06683>                     +     5.0 02:A3A             3.84     .010 1998.0927_15:25  131.84  n/a     .000
06684>                     +     5.0 02:A3B             5.29     .009 1998.0927_15:15  130.44  n/a     .000
06685>                     +     5.0 02:A3C-R           1.21     .001 1998.0927_15:50  130.11  n/a     .000
06686>                   SUM=    5.0 01:J2             73.56     .113 1998.0927_15:20  130.95  n/a     .000
06687> R1998:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06688>     ROUTE CHANNEL   ->    5.0 02:J2             73.56     .113 1998.0927_15:20  130.95  n/a     .000
06689> *   [RDT= 5.00] out<-     5.0 01:R2             73.56     .112 1998.0927_15:30  130.95  n/a     .000
06690>       [L/S/n=  359./ .560/ .035]
06691>       (Vmax=  .368:Dmax=  .104)
06692> R1998:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06693>     CONTINUOUS NASHYD     5.0 01:A1A            21.43     .024 1998.0927_15:40  130.04 .295     .000
06694>       [CN= 36.1: N= 3.00: Tp= 1.68]
06695>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
06696>       [InterEventTime=  12.00]
06697> R1998:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06698>     CONTINUOUS NASHYD     5.0 01:A1B             4.70     .007 1998.0927_15:40  130.53 .296     .000
06699>       [CN= 44.6: N= 3.00: Tp= 1.72]
06700>       [IaREC= 6.00: SMIN=134.47: SMAX=896.47: SK= .030]
06701>       [InterEventTime=  12.00]
06702> R1998:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06703>     CONTINUOUS NASHYD     5.0 01:A2              9.14     .040 1998.0927_15:05  133.17 .302     .000
06704>       [CN= 68.4: N= 3.00: Tp= 1.12]
06705>       [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
06706>       [InterEventTime=  12.00]
06707> R1998:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06708>     ADD HYD               5.0 02:R2             73.56     .112 1998.0927_15:30  130.95  n/a     .000
06709>                     +     5.0 02:A1A            21.43     .024 1998.0927_15:40  130.04  n/a     .000
06710>                     +     5.0 02:A1B             4.70     .007 1998.0927_15:40  130.53  n/a     .000
06711>                     +     5.0 02:A2              9.14     .040 1998.0927_15:05  133.17  n/a     .000
06712>                   SUM=    5.0 01:J3            108.84     .179 1998.0927_15:25  130.94  n/a     .000
06713> R1998:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06714>     ROUTE CHANNEL   ->    5.0 02:J3            108.84     .179 1998.0927_15:25  130.94 n/a      .000
06715> *   [RDT= 5.00] out<-     5.0 01:R3            108.84     .174 1998.0927_15:45  130.94 n/a      .000
06716>       [L/S/n=  396./ .305/ .035]
06717>       (Vmax=  .365:Dmax=  .219)
06718> R1998:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06719>     CONTINUOUS NASHYD     5.0 01:SOUTH-1        20.21     .025 1998.0927_15:25  129.96 .295     .000
06720>       [CN= 35.5: N= 3.00: Tp= 1.40]
06721>       [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
06722>       [InterEventTime=  12.00]
06723> R1998:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06724>     ADD HYD               5.0 02:R3            108.84     .174 1998.0927_15:45  130.94  n/a     .000
06725>                     +     5.0 02:SOUTH-1        20.21     .025 1998.0927_15:25  129.96  n/a     .000
06726>                   SUM=    5.0 01:J4            129.05     .198 1998.0927_15:40  130.78  n/a     .000
06727> R1998:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06728>     ROUTE CHANNEL   ->    5.0 02:J4            129.05     .198 1998.0927_15:40  130.78  n/a     .000
06729> *   [RDT= 5.00] out<-     5.0 01:R4            129.05     .192 1998.0927_15:55  130.78  n/a     .000
06730>       [L/S/n=  482./ .410/ .035]
06731>       (Vmax=  .441:Dmax=  .210)
06732> R1998:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06733>     CONTINUOUS NASHYD     5.0 01:SOUTH-2        11.61     .020 1998.0927_14:50  130.04 .295     .000
06734>       [CN= 36.7: N= 3.00: Tp=  .96]
06735>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
06736>       [InterEventTime=  12.00]
06737> R1998:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06738>     ADD HYD               5.0 02:R4            129.05     .192 1998.0927_15:55  130.78  n/a     .000
06739>                     +     5.0 02:SOUTH-2        11.61     .020 1998.0927_14:50  130.04  n/a     .000
06740>                   SUM=    5.0 01:J5            140.66     .205 1998.0927_15:50  130.72  n/a     .000
06741> R1998:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06742>     ROUTE CHANNEL   ->    5.0 02:J5            140.66     .205 1998.0927_15:50  130.72  n/a     .000
06743> *   [RDT= 5.00] out<-     5.0 01:R5            140.66     .205 1998.0927_15:55  130.72  n/a     .000
06744>       [L/S/n=  181./ .500/ .035]
06745>       (Vmax=  .416:Dmax=  .201)
06746> R1998:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06747>     CONTINUOUS NASHYD     5.0 01:SOUTH-3         7.98     .018 1998.0927_14:45  130.44 .296     .000
06748>       [CN= 42.6: N= 3.00: Tp=  .89]
06749>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
06750>       [InterEventTime=  12.00]
06751> R1998:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06752>     ADD HYD               5.0 02:R5            140.66     .205 1998.0927_15:55  130.72  n/a     .000
06753>                     +     5.0 02:SOUTH-3         7.98     .018 1998.0927_14:45  130.44  n/a     .000
06754>                   SUM=    5.0 01:J6            148.64     .215 1998.0927_15:55  130.71  n/a     .000
06755> R1998:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06756>     SAVE HYD              5.0 01:J6            148.64     .215 1998.0927_15:55  130.71  n/a     .000
06757>       fname :J6.1998
06758>       remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
06759> R1998:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06760>     ROUTE CHANNEL   ->    5.0 02:J6            148.64     .215 1998.0927_15:55  130.71  n/a     .000
06761> *   [RDT= 5.00] out<-     5.0 01:R6            148.64     .212 1998.0927_16:00  130.71  n/a     .000
06762>       [L/S/n=  323./ .440/ .035]
06763>       (Vmax=  .463:Dmax=  .215)
06764> R1998:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06765>     CONTINUOUS NASHYD     5.0 01:SOUTH-4        14.99     .024 1998.0927_15:10  130.19 .296     .000
06766>       [CN= 39.5: N= 3.00: Tp= 1.23]
06767>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
06768>       [InterEventTime=  12.00]
06769> R1998:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06770>     ADD HYD               5.0 02:R6            148.64     .212 1998.0927_16:00  130.71  n/a     .000
06771>                     +     5.0 02:SOUTH-4        14.99     .024 1998.0927_15:10  130.19  n/a     .000
06772>                   SUM=    5.0 01:Total         163.63     .231 1998.0927_16:00  130.66  n/a     .000
06773> #===============================================================
06774> #===============================================================
06775> ###############################################################################
06776> # CONTINUOUS RAINFALL DATA
06777> ###############################################################################
06778> #*****************************************************************************
06779> # STORMS
06780> #*****************************************************************************
06781>   ** END OF RUN : 1998
06782>
06783> *******************************************************************************************************
06784>
06785>
06786>
06787>
06788>
06789>  RUN#:COMMAND#
06790> R1999:C00001------------------------------------------------------------------------------------------
06791>       START
06792>       [TZERO =    .00 hrs on 19990401]
06793>       [METOUT=   2   (1=imperial, 2=metric output)]
06794>       [NSTORM=   0 ]
06795>       [NRUN  = 1999 ]
06796> #*****************************************************************************
06797> #  SWMHYMO  / INPUT DATA FILE
06798> #*****************************************************************************
06799> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
06800> #  Date        : 04-28-2021
06801> #  Modeller    : [J.B]
06802> #  Company     : JFSAinc.
06803> #  License #   :  2549237
06804> #*****************************************************************************
06805> #*****************************************************************************
06806> #*****************************************************************************
06807> # Ottawa International Airport - April 1st to October 31st
06808> R1999:C00002------------------------------------------------------------------------------------------
06809>   *  READ AES DATA
06810>       [Filename  = YOW_1967_2007.123                                          ]
06811>       [Start_date= 1999.0401: End_date= 1999.1031]
06812>       [DT= 60.min: Length= 4416.hrs: WetHrs=  247: DryHrs= 4169: PTOT= 424.40)
06813>       Maximum average rainfall intensities over
06814>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
06815>        17.50    10.10     9.03     6.57     3.31     1.65     1.45     1.22      .97     mm/hr
06816>        17.50    20.20    27.10    39.40    39.70    39.70    52.20    58.60    69.50     mm
06817>       19990717 19990717 19990906 19990906 19990906 19990906 19990907 19990907 19990908  date
06818>       Number of rainfall events per following interevent time
06819>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
06820>          102       80       70       63       56       38       30       28       18
06821>       Number of events with at least the following durations
06822>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
06823>          101       57       31       10        1        0        0        0        0
06824> R1999:C00003------------------------------------------------------------------------------------------
06825>       COMPUTE API
06826>       [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
06827>       [APImax= 69.51: APIavg= 24.05: APImin=  1.93)
06828> R1999:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06829>     CONTINUOUS NASHYD     5.0 01:NORTH-1        34.70     .036 1999.0906_13:00  156.36 .368     .000
06830>       [CN= 38.1: N= 3.00: Tp= 4.12]
06831>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
06832>       [InterEventTime=  12.00]
06833> R1999:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06834>     CONTINUOUS NASHYD     5.0 01:NORTH-2        12.44     .040 1999.0906_10:25  156.81 .369     .000
06835>       [CN= 53.0: N= 3.00: Tp= 1.29]
06836>       [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
06837>       [InterEventTime=  12.00]
06838> R1999:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06839>     CONTINUOUS NASHYD     5.0 01:HWY-1           2.36     .020 1999.0906_10:15  159.00 .375     .000
06840>       [CN= 81.7: N= 3.00: Tp= 1.21]
```

```
06841>       [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
06842>       [InterEventTime=  12.00]
06843> R1999:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06844>     ADD HYD              5.0 02:NORTH-1        34.70     .036 1999.0906_13:00  156.36  n/a     .000
06845>                    +     5.0 02:NORTH-2        12.44     .040 1999.0906_10:25  156.81  n/a     .000
06846>                    +     5.0 02:HWY-1           2.36     .020 1999.0906_10:15  159.00  n/a     .000
06847>                SUM=      5.0 01:J1             49.51     .085 1999.0906_10:40  156.60  n/a     .000
06848> R1999:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06849>     ROUTE CHANNEL    ->     5.0 02:J1             49.51     .085 1999.0906_10:40  156.60  n/a     .000
06850> *   [RDT= 5.00] out<-     5.0 01:R1             49.51     .084 1999.0906_10:55  156.60  n/a     .000
06851>       [L/S/n=  478./ .440/.035]
06852>       [Vmax=  .375:Dmax=  .155)
06853> R1999:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06854>     CONTINUOUS NASHYD      5.0 01:INT-1          4.39     .017 1999.0906_10:45  157.14 .370     .000
06855>       [CN= 60.4: N= 3.00: Tp= 1.66]
06856>       [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
06857>       [InterEventTime=  12.00]
06858> R1999:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06859>     CONTINUOUS NASHYD      5.0 01:INT-2          3.61     .010 1999.0906_10:15  156.61 .369     .000
06860>       [CN= 47.4: N= 3.00: Tp=  .95]
06861>       [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
06862>       [InterEventTime=  12.00]
06863> R1999:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06864>     CONTINUOUS NASHYD      5.0 01:A3A            3.84     .014 1999.0906_10:35  157.04 .370     .000
06865>       [CN= 58.4: N= 3.00: Tp= 1.46]
06866>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
06867>       [InterEventTime=  12.00]
06868> R1999:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06869>     CONTINUOUS NASHYD      5.0 01:A3B            5.29     .012 1999.0906_10:25  156.46 .369     .000
06870>       [CN= 42.6: N= 3.00: Tp= 1.26]
06871>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
06872>       [InterEventTime=  12.00]
06873> R1999:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06874>     CONTINUOUS NASHYD      5.0 01:A3C            1.21     .002 1999.0906_10:15  156.33 .368     .000
06875>       [CN= 37.8: N= 3.00: Tp=  .87]
06876>       [IaREC= 6.00: SMIN=179.29: SMAX=******: SK= .030]
06877>       [InterEventTime=  12.00]
06878> R1999:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06879>     ROUTE CHANNEL    ->     5.0 02:A3C            1.21     .002 1999.0906_10:55  156.33  n/a     .000
06880> *   [RDT= 5.00] out<-     5.0 01:A3C-R          1.21     .002 1999.0906_10:55  156.33  n/a     .000
06881>       [L/S/n=  500./ .140/.035]
06882>       [Vmax=  .070:Dmax=  .036)
06883> R1999:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06884>     CONTINUOUS NASHYD      5.0 01:INT-3          5.71     .024 1999.0906_ 9:40  157.04 .370     .000
06885>       [CN= 58.5: N= 3.00: Tp=  .89]
06886>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
06887>       [InterEventTime=  12.00]
06888> R1999:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06889>     ADD HYD              5.0 02:R1             49.51     .084 1999.0906_10:55  156.60  n/a     .000
06890>                    +     5.0 02:INT-1          4.39     .017 1999.0906_10:45  157.14  n/a     .000
06891>                    +     5.0 02:INT-2          3.61     .010 1999.0906_10:15  156.61  n/a     .000
06892>                    +     5.0 02:INT-3          5.71     .024 1999.0906_ 9:40  157.04  n/a     .000
06893>                    +     5.0 02:A3A            3.84     .014 1999.0906_10:35  157.04  n/a     .000
06894>                    +     5.0 02:A3B            5.29     .012 1999.0906_10:25  156.46  n/a     .000
06895>                    +     5.0 02:A3C-R          1.21     .002 1999.0906_10:55  156.33  n/a     .000
06896>                SUM=      5.0 01:J2            73.56     .159 1999.0906_10:35  156.68  n/a     .000
06897> R1999:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06898>     ROUTE CHANNEL    ->     5.0 02:J2            73.56     .159 1999.0906_10:35  156.68  n/a     .000
06899> *   [RDT= 5.00] out<-     5.0 01:R2            73.56     .158 1999.0906_10:45  156.68  n/a     .000
06900>       [L/S/n=  359./ .560/.035]
06901>       [Vmax=  .419:Dmax=  .123)
06902> R1999:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06903>     CONTINUOUS NASHYD      5.0 01:A1A           21.43     .034 1999.0906_10:45  156.30 .368     .000
06904>       [CN= 36.1: N= 3.00: Tp= 1.68]
06905>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
06906>       [InterEventTime=  12.00]
06907> R1999:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06908>     CONTINUOUS NASHYD      5.0 01:A1B            4.70     .010 1999.0906_10:50  156.50 .369     .000
06909>       [CN= 44.6: N= 3.00: Tp= 1.72]
06910>       [IaREC= 6.00: SMIN=134.47: SMAX=896.47: SK= .030]
06911>       [InterEventTime=  12.00]
06912> R1999:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06913>     CONTINUOUS NASHYD      5.0 01:A2             9.14     .050 1999.0906_10:15  157.60 .371     .000
06914>       [CN= 68.4: N= 3.00: Tp= 1.12]
06915>       [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
06916>       [InterEventTime=  12.00]
06917> R1999:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06918>     ADD HYD              5.0 02:R2             73.56     .158 1999.0906_10:45  156.68  n/a     .000
06919>                    +     5.0 02:A1A           21.43     .034 1999.0906_10:45  156.30  n/a     .000
06920>                    +     5.0 02:A1B            4.70     .010 1999.0906_10:50  156.50  n/a     .000
06921>                    +     5.0 02:A2             9.14     .050 1999.0906_10:15  157.60  n/a     .000
06922>                SUM=      5.0 01:J3            108.84     .250 1999.0906_10:35  156.67  n/a     .000
06923> R1999:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06924>     ROUTE CHANNEL    ->     5.0 02:J3            108.84     .250 1999.0906_10:35  156.67  n/a     .000
06925> *   [RDT= 5.00] out<-     5.0 01:R3            108.84     .247 1999.0906_10:50  156.67  n/a     .000
06926>       [L/S/n=  396./ .305/.035]
06927>       [Vmax=  .388:Dmax=  .252)
06928> R1999:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06929>     CONTINUOUS NASHYD      5.0 01:SOUTH-1       20.21     .033 1999.0906_10:35  156.26 .368     .000
06930>       [CN= 35.5: N= 3.00: Tp= 1.40]
06931>       [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
06932>       [InterEventTime=  12.00]
06933> R1999:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06934>     ADD HYD              5.0 02:R3            108.84     .247 1999.0906_10:50  156.67  n/a     .000
06935>                    +     5.0 02:SOUTH-1       20.21     .033 1999.0906_10:35  156.26  n/a     .000
06936>                SUM=      5.0 01:J4            129.05     .279 1999.0906_10:50  156.61  n/a     .000
06937> R1999:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06938>     ROUTE CHANNEL    ->     5.0 02:J4            129.05     .279 1999.0906_10:50  156.61  n/a     .000
06939> *   [RDT= 5.00] out<-     5.0 01:R4            129.05     .277 1999.0906_10:55  156.61  n/a     .000
06940>       [L/S/n=  482./ .410/.035]
06941>       [Vmax=  .501:Dmax=  .247)
06942> R1999:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06943>     CONTINUOUS NASHYD      5.0 01:SOUTH-2       11.61     .022 1999.0906_10:15  156.30 .368     .000
06944>       [CN= 36.7: N= 3.00: Tp=  .96]
06945>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
06946>       [InterEventTime=  12.00]
06947> R1999:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06948>     ADD HYD              5.0 02:R4            129.05     .277 1999.0906_10:55  156.61  n/a     .000
06949>                    +     5.0 02:SOUTH-2       11.61     .022 1999.0906_10:15  156.30  n/a     .000
06950>                SUM=      5.0 01:J5            140.66     .296 1999.0906_10:55  156.58  n/a     .000
06951> R1999:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06952>     ROUTE CHANNEL    ->     5.0 02:J5            140.66     .296 1999.0906_10:55  156.58  n/a     .000
06953> *   [RDT= 5.00] out<-     5.0 01:R5            140.66     .295 1999.0906_11:00  156.58  n/a     .000
06954>       [L/S/n=  181./ .500/.035]
06955>       [Vmax=  .483:Dmax=  .237)
06956> R1999:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06957>     CONTINUOUS NASHYD      5.0 01:SOUTH-3        7.98     .019 1999.0906_10:15  156.46 .369     .000
06958>       [CN= 42.6: N= 3.00: Tp=  .89]
06959>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
06960>       [InterEventTime=  12.00]
06961> R1999:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06962>     ADD HYD              5.0 02:R5            140.66     .295 1999.0906_11:00  156.58  n/a     .000
06963>                    +     5.0 02:SOUTH-3        7.98     .019 1999.0906_10:15  156.46  n/a     .000
06964>                SUM=      5.0 01:J6            148.64     .311 1999.0906_10:55  156.58  n/a     .000
06965> R1999:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06966>     SAVE HYD             5.0 01:J6            148.64     .311 1999.0906_10:55  156.58  n/a     .000
06967>       fname :J6.1999
06968>       remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
06969> R1999:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06970>     ROUTE CHANNEL    ->     5.0 02:J6            148.64     .311 1999.0906_10:55  156.58  n/a     .000
06971> *   [RDT= 5.00] out<-     5.0 01:R6            148.64     .310 1999.0906_11:05  156.58  n/a     .000
06972>       [L/S/n=  323./ .440/.035]
06973>       [Vmax=  .527:Dmax=  .254)
06974> R1999:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06975>     CONTINUOUS NASHYD      5.0 01:SOUTH-4       14.99     .030 1999.0906_10:25  156.36 .368     .000
06976>       [CN= 39.5: N= 3.00: Tp= 1.23]
06977>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
06978>       [InterEventTime=  12.00]
06979> R1999:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06980>     ADD HYD              5.0 02:R6            148.64     .310 1999.0906_11:05  156.58  n/a     .000
06981>                    +     5.0 02:SOUTH-4       14.99     .030 1999.0906_10:25  156.36  n/a     .000
06982>                SUM=      5.0 01:Total         163.63     .337 1999.0906_11:00  156.56  n/a     .000
06983> #=========================================================================
06984> #=========================================================================
06985> ###########################################################################
06986> # CONTINUOUS RAINFALL DATA
06987> ###########################################################################
06988> #*************************************************************************
06989> # STORMS
06990> #*************************************************************************
06991>   ** END OF RUN : 1999
06992>
06993> ***************************************************************************************************
06994>
06995>
06996>
06997>
06998>
06999>  RUN#:COMMAND#
07000> R2000:C00001------------------------------------------------------------------------------------
07001>       START
07002>       [TZERO =    .00 hrs on 20000401]
07003>       [METOUT=  2   (1=imperial, 2=metric output)]
07004>       [NSTORM=  0 ]
07005>       [NRUN  = 2000 ]
07006> #*************************************************************************
07007> #  SWMHYMO  / INPUT DATA FILE
07008> #*************************************************************************
07009> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
07010> #  Date       : 04-28-2021
07011> #  Modeller   : [J.B]
07012> #  Company    : JFSAinc.
07013> #  License #  :  2549237
07014> #*************************************************************************
07015> #*************************************************************************
07016> #*************************************************************************
07017> # Ottawa International Airport - April 1st to October 31st
07018> R2000:C00002------------------------------------------------------------------------------------
07019>  *  READ AES DATA
07020>       [Filename  = YOW_1967_2007.123                                    ]

07021>       [Start_date= 2000.0401: End_date= 2000.1031]
07022>       [DT= 60.min: Length= 5136.hrs: WetHrs=  401: DryHrs= 4735: PTOT= 535.90)
07023>       Maximum average rainfall intensities over
07024>         1 hr     2 hrs     3 hrs     6 hrs    12 hrs    24 hrs    36 hrs    48 hrs    72 hrs
07025>        14.70     9.60      8.03      6.43      3.89      1.95      1.30      1.03      .84    mm/hr
07026>        14.70    19.20     24.10     38.60     46.70     46.70     46.80     49.30    60.40    mm
07027>       20000625 20000625 20000625 20000625 20000625 20000625 20000626 20000510 20000511  date
07028>       Number of rainfall events per following interevent time
07029>         1 hr     2 hrs     3 hrs     6 hrs    12 hrs    24 hrs    36 hrs    48 hrs    72 hrs
07030>          156       125       110        86        67        46        34        30        23
07031>       Number of events with at least the following durations
07032>         1 hr     2 hrs     3 hrs     6 hrs    12 hrs    24 hrs    36 hrs    48 hrs    72 hrs
07033>          155        82        49        16         2         0         0         0         0
07034> R2000:C00003------------------------------------------------------------------------------------
07035>       COMPUTE API
07036>       [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
07037>       [APImax= 76.65: APImin=  25.75: APImin= 6.33]
07038> R2000:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07039>     CONTINUOUS NASHYD      5.0 01:NORTH-1       34.70     .079 2000.0625_13:20  183.22 .342     .000
07040>       [CN= 38.1: N= 3.00: Tp= 1.12]
07041>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
07042>       [InterEventTime=  12.00]
07043> R2000:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07044>     CONTINUOUS NASHYD      5.0 01:NORTH-2       12.44     .100 2000.0625_10:50  183.58 .343     .000
07045>       [CN= 53.0: N= 3.00: Tp= 1.29]
07046>       [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
07047>       [InterEventTime=  12.00]
07048> R2000:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07049>     CONTINUOUS NASHYD      5.0 01:HWY-1          2.36     .041 2000.0625_10:45  185.25 .346     .000
07050>       [CN= 81.7: N= 3.00: Tp= 1.21]
07051>       [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
07052>       [InterEventTime=  12.00]
07053> R2000:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07054>     ADD HYD              5.0 02:NORTH-1       34.70     .079 2000.0625_13:20  183.22  n/a     .000
07055>                    +     5.0 02:NORTH-2       12.44     .100 2000.0625_10:50  183.58  n/a     .000
07056>                    +     5.0 02:HWY-1          2.36     .041 2000.0625_10:45  185.25  n/a     .000
07057>                SUM=      5.0 01:J1            49.51     .193 2000.0625_11:00  183.41  n/a     .000
07058> R2000:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07059>     ROUTE CHANNEL    ->     5.0 02:J1            49.51     .193 2000.0625_11:00  183.41  n/a     .000
07060> *   [RDT= 5.00] out<-     5.0 01:R1            49.51     .189 2000.0625_11:15  183.41  n/a     .000
07061>       [L/S/n=  478./ .440/.035]
07062>       [Vmax=  .472:Dmax=  .218)
07063> R2000:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07064>     CONTINUOUS NASHYD      5.0 01:INT-1          4.39     .037 2000.0625_11:10  183.84 .343     .000
07065>       [CN= 60.4: N= 3.00: Tp= 1.66]
07066>       [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
07067>       [InterEventTime=  12.00]
07068> R2000:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07069>     CONTINUOUS NASHYD      5.0 01:INT-2          3.61     .030 2000.0625_10:35  183.42 .342     .000
07070>       [CN= 47.4: N= 3.00: Tp=  .95]
07071>       [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
07072>       [InterEventTime=  12.00]
07073> R2000:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07074>     CONTINUOUS NASHYD      5.0 01:A3A            3.84     .033 2000.0625_11:00  183.76 .343     .000
07075>       [CN= 58.4: N= 3.00: Tp= 1.46]
07076>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
07077>       [InterEventTime=  12.00]
07078> R2000:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07079>     CONTINUOUS NASHYD      5.0 01:A3B            5.29     .031 2000.0625_10:50  183.31 .342     .000
07080>       [CN= 42.6: N= 3.00: Tp= 1.26]
07081>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
07082>       [InterEventTime=  12.00]
07083> R2000:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07084>     CONTINUOUS NASHYD      5.0 01:A3C            1.21     .007 2000.0625_10:30  183.20 .342     .000
07085>       [CN= 37.8: N= 3.00: Tp=  .87]
07086>       [IaREC= 6.00: SMIN=179.29: SMAX=******: SK= .030]
07087>       [InterEventTime=  12.00]
07088> R2000:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07089>     ROUTE CHANNEL    ->     5.0 02:A3C            1.21     .007 2000.0625_10:30  183.20  n/a     .000
07090> *   [RDT= 5.00] out<-     5.0 01:A3C-R          1.21     .005 2000.0625_11:05  183.20  n/a     .000
07091>       [L/S/n=  500./ .140/.035]
07092>       [Vmax=  .110:Dmax=  .058]
07093> R2000:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07094>     CONTINUOUS NASHYD      5.0 01:INT-3          5.71     .067 2000.0625_10:30  183.76 .343     .000
07095>       [CN= 58.5: N= 3.00: Tp=  .89]
07096>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
07097>       [InterEventTime=  12.00]
07098> R2000:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07099>     ADD HYD              5.0 02:R1             49.51     .189 2000.0625_11:15  183.41  n/a     .000
07100>                    +     5.0 02:INT-1          4.39     .037 2000.0625_11:10  183.84  n/a     .000
07101>                    +     5.0 02:INT-2          3.61     .030 2000.0625_10:35  183.42  n/a     .000
07102>                    +     5.0 02:INT-3          5.71     .067 2000.0625_10:30  183.76  n/a     .000
07103>                    +     5.0 02:A3A            3.84     .033 2000.0625_11:00  183.77  n/a     .000
07104>                    +     5.0 02:A3B            5.29     .031 2000.0625_10:50  183.31  n/a     .000
07105>                    +     5.0 02:A3C-R          1.21     .005 2000.0625_11:05  183.20  n/a     .000
07106>                SUM=      5.0 01:J2            73.56     .376 2000.0625_10:55  183.47  n/a     .000
07107> R2000:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07108>     ROUTE CHANNEL    ->     5.0 02:J2            73.56     .376 2000.0625_10:55  183.47  n/a     .000
07109> *   [RDT= 5.00] out<-     5.0 01:R2            73.56     .374 2000.0625_11:00  183.47  n/a     .000
07110>       [L/S/n=  359./ .560/.035]
07111>       [Vmax=  .573:Dmax=  .187)
07112> R2000:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07113>     CONTINUOUS NASHYD      5.0 01:A1A           21.43     .083 2000.0625_11:10  183.17 .342     .000
07114>       [CN= 36.1: N= 3.00: Tp= 1.68]
07115>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
07116>       [InterEventTime=  12.00]
07117> R2000:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07118>     CONTINUOUS NASHYD      5.0 01:A1B            4.70     .024 2000.0625_11:15  183.33 .342     .000
07119>       [CN= 44.6: N= 3.00: Tp= 1.72]
07120>       [IaREC= 6.00: SMIN=134.47: SMAX=896.47: SK= .030]
07121>       [InterEventTime=  12.00]
07122> R2000:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07123>     CONTINUOUS NASHYD      5.0 01:A2             9.14     .120 2000.0625_10:40  184.20 .344     .000
07124>       [CN= 68.4: N= 3.00: Tp= 1.12]
07125>       [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
07126>       [InterEventTime=  12.00]
07127> R2000:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07128>     ADD HYD              5.0 02:R2             73.56     .374 2000.0625_11:00  183.47  n/a     .000
07129>                    +     5.0 02:A1A           21.43     .083 2000.0625_11:10  183.17  n/a     .000
07130>                    +     5.0 02:A1B            4.70     .024 2000.0625_11:15  183.33  n/a     .000
07131>                    +     5.0 02:A2             9.14     .120 2000.0625_10:40  184.20  n/a     .000
07132>                SUM=      5.0 01:J3            108.84     .594 2000.0625_10:55  183.47  n/a     .000
07133> R2000:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07134>     ROUTE CHANNEL    ->     5.0 02:J3            108.84     .594 2000.0625_10:55  183.47  n/a     .000
07135> *   [RDT= 5.00] out<-     5.0 01:R3            108.84     .581 2000.0625_11:10  183.47  n/a     .000
07136>       [L/S/n=  396./ .305/.035]
07137>       [Vmax=  .439:Dmax=  .350)
07138> R2000:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07139>     CONTINUOUS NASHYD      5.0 01:SOUTH-1       20.21     .084 2000.0625_11:00  183.15 .342     .000
07140>       [CN= 35.5: N= 3.00: Tp= 1.40]
07141>       [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
07142>       [InterEventTime=  12.00]
07143> R2000:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07144>     ADD HYD              5.0 02:R3            108.84     .581 2000.0625_11:10  183.47  n/a     .000
07145>                    +     5.0 02:SOUTH-1       20.21     .084 2000.0625_11:00  183.15  n/a     .000
07146>                SUM=      5.0 01:J4            129.05     .663 2000.0625_11:10  183.42  n/a     .000
07147> R2000:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07148>     ROUTE CHANNEL    ->     5.0 02:J4            129.05     .663 2000.0625_11:10  183.42  n/a     .000
07149> *   [RDT= 5.00] out<-     5.0 01:R4            129.05     .652 2000.0625_11:20  183.42  n/a     .000
07150>       [L/S/n=  482./ .410/.035]
07151>       [Vmax=  .589:Dmax=  .347)
07152> R2000:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07153>     CONTINUOUS NASHYD      5.0 01:SOUTH-2       11.61     .064 2000.0625_10:35  183.17 .342     .000
07154>       [CN= 36.7: N= 3.00: Tp=  .96]
07155>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
07156>       [InterEventTime=  12.00]
07157> R2000:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07158>     ADD HYD              5.0 02:R4            129.05     .652 2000.0625_11:20  183.42  n/a     .000
07159>                    +     5.0 02:SOUTH-2       11.61     .064 2000.0625_10:35  183.17  n/a     .000
07160>                SUM=      5.0 01:J5            140.66     .699 2000.0625_11:20  183.40  n/a     .000
07161> R2000:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07162>     ROUTE CHANNEL    ->     5.0 02:J5            140.66     .699 2000.0625_11:20  183.40  n/a     .000
07163> *   [RDT= 5.00] out<-     5.0 01:R5            140.66     .698 2000.0625_11:20  183.40  n/a     .000
07164>       [L/S/n=  181./ .500/.035]
07165>       [Vmax=  .568:Dmax=  .310)
07166> R2000:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07167>     CONTINUOUS NASHYD      5.0 01:SOUTH-3        7.98     .058 2000.0625_10:30  183.31 .342     .000
07168>       [CN= 42.6: N= 3.00: Tp=  .89]
07169>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
07170>       [InterEventTime=  12.00]
07171> R2000:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07172>     ADD HYD              5.0 02:R5            140.66     .698 2000.0625_11:20  183.40  n/a     .000
07173>                    +     5.0 02:SOUTH-3        7.98     .058 2000.0625_10:30  183.30  n/a     .000
07174>                SUM=      5.0 01:J6            148.64     .737 2000.0625_11:20  183.39  n/a     .000
07175> R2000:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07176>     SAVE HYD             5.0 01:J6            148.64     .737 2000.0625_11:20  183.39  n/a     .000
07177>       fname :J6.2000
07178>       remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
07179> R2000:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07180>     ROUTE CHANNEL    ->     5.0 02:J6            148.64     .737 2000.0625_11:20  183.39  n/a     .000
07181> *   [RDT= 5.00] out<-     5.0 01:R6            148.64     .733 2000.0625_11:25  183.39  n/a     .000
07182>       [L/S/n=  323./ .440/.035]
07183>       [Vmax=  .618:Dmax=  .356)
07184> R2000:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07185>     CONTINUOUS NASHYD      5.0 01:SOUTH-4       14.99     .078 2000.0625_10:50  183.22 .342     .000
07186>       [CN= 39.5: N= 3.00: Tp= 1.23]
07187>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
07188>       [InterEventTime=  12.00]
07189> R2000:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07190>     ADD HYD              5.0 02:R6            148.64     .733 2000.0625_11:25  183.39  n/a     .000
07191>                    +     5.0 02:SOUTH-4       14.99     .078 2000.0625_10:50  183.22  n/a     .000
07192>                SUM=      5.0 01:Total         163.63     .801 2000.0625_11:20  183.38  n/a     .000
07193> #=========================================================================
07194> #=========================================================================
07195> ###########################################################################
07196> # CONTINUOUS RAINFALL DATA
07197> ###########################################################################
07198> #*************************************************************************
07199> # STORMS
07200> #*************************************************************************
```

```
07201>   ** END OF RUN : 2001
07202>
07203> ************************************************************************************************
07204>
07205>
07206>
07207>
07208>
07209>  RUN#:COMMAND#
07210> R2002:C00001-------------------------------------------------------------------------------------
07211>      START
07212>       [TZERO =      .00 hrs on 20020401]
07213>       [METOUT=  2     (1=imperial, 2=metric output)]
07214>       [NSTORM=  0 ]
07215>       [NRUN  = 2002 ]
07216> #*************************************************************************
07217> #  SWMHYMO  / INPUT DATA FILE
07218> #*************************************************************************
07219> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
07220> #  Date        : 04-28-2021
07221> #  Modeller    : [J.B]
07222> #  Company     : JFSAinc.
07223> #  License #   : 2549237
07224> #*************************************************************************
07225> #*************************************************************************
07226> #*************************************************************************
07227> # Ottawa International Airport - April 1st to October 31st
07228> R2002:C00002-------------------------------------------------------------------------------------
07229>      *  READ AES DATA
07230>       [Filename  = YOW_1967_2007.123                                    ]
07231>       [Start_date= 2002.0401: End_date= 2002.1031]
07232>       [DT= 60.min: Length= 5064.hrs: WetHrs=  303: DryHrs= 4761: PTOT= 550.50)
07233>       Maximum average rainfall intensities over
07234>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
07235>        45.00    26.75    18.40     9.48     4.74     2.48     2.08     1.56     1.04    mm/hr
07236>        45.00    53.50    55.20    56.90    56.90    59.50    74.90    74.90    74.90    mm
07237>       20020627 20020627 20020627 20020627 20020627 20020627 20020627 20020627 20020628 20020629  date
07238>       Number of rainfall events per following interevent time
07239>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
07240>          100       83       78       56       47       41       36       34       25
07241>       Number of events with at least the following durations
07242>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
07243>           99       59       33       13        5        0        0        0        0
07244> R2002:C00003-------------------------------------------------------------------------------------
07245>      COMPUTE API
07246>       [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
07247>       [APImax=114.06: APIavg= 26.43: APImin=  4.40]
07248> R2002:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07249>      CONTINUOUS NASHYD     5.0 01:NORTH-1       34.70     .154 2002.0627_18:00  247.75 .450     .000
07250>       [CN= 38.1: N= 3.00: Tp= 4.12]
07251>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
07252>       [InterEventTime=  12.00]
07253> R2002:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07254>      CONTINUOUS NASHYD     5.0 01:NORTH-2       12.44     .224 2002.0627_15:05  249.09 .452     .000
07255>       [CN= 53.0: N= 3.00: Tp= 1.29]
07256>       [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
07257>       [InterEventTime=  12.00]
07258> R2002:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07259>      CONTINUOUS NASHYD     5.0 01:HWY-1         2.36     .087 2002.0627_14:55  255.37 .464     .000
07260>       [CN= 81.7: N= 3.00: Tp= 1.21]
07261>       [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
07262>       [InterEventTime=  12.00]
07263> R2002:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07264>      ADD HYD              34.70     .154 2002.0627_18:00  247.75 n/a      .000
07265>                     +     5.0 02:NORTH-2       12.44     .224 2002.0627_15:05  249.09 n/a      .000
07266>                     +     5.0 02:HWY-1          2.36     .087 2002.0627_14:55  255.37 n/a      .000
07267>                   SUM=    5.0 01:J1            49.51     .384 2002.0627_15:10  248.45 n/a      .000
07268> R2002:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07269>      ROUTE CHANNEL   ->    5.0 02:J1            49.51     .384 2002.0627_15:10  248.45 n/a      .000
07270>  *   [RDT= 5.00] out<-     5.0 01:R1            49.51     .378 2002.0627_15:25  248.45 n/a      .000
07271>       [L/S/n=  478./ .440/.035]
07272>       [Vmax=  .565:Dmax=  .293]
07273> R2002:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07274>      CONTINUOUS NASHYD     5.0 01:INT-1         4.39     .077 2002.0627_15:25  250.15 .454     .000
07275>       [CN= 60.4: N= 3.00: Tp= 1.66]
07276>       [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
07277>       [InterEventTime=  12.00]
07278> R2002:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07279>      CONTINUOUS NASHYD     5.0 01:INT-2         3.61     .072 2002.0627_14:45  248.41 .451     .000
07280>       [CN= 47.4: N= 3.00: Tp=  .95]
07281>       [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
07282>       [InterEventTime=  12.00]
07283> R2002:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07284>      CONTINUOUS NASHYD     5.0 01:A3A           3.84     .071 2002.0627_15:15  249.83 .454     .000
07285>       [CN= 58.4: N= 3.00: Tp= 1.46]
07286>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
07287>       [InterEventTime=  12.00]
07288> R2002:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07289>      CONTINUOUS NASHYD     5.0 01:A3B           5.29     .071 2002.0627_15:05  247.93 .450     .000
07290>       [CN= 42.6: N= 3.00: Tp= 1.26]
07291>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
07292>       [InterEventTime=  12.00]
07293> R2002:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07294>      CONTINUOUS NASHYD     5.0 01:A3C           1.21     .019 2002.0627_14:40  247.69 .450     .000
07295>       [CN= 37.8: N= 3.00: Tp=  .87]
07296>       [IaREC= 6.00: SMIN=179.29: SMAX=******: SK= .030]
07297>       [InterEventTime=  12.00]
07298> R2002:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07299>      ROUTE CHANNEL   ->    5.0 02:A3C           1.21     .019 2002.0627_14:40  247.69 n/a      .000
07300>       [RDT= 5.00] out<-    5.0 01:A3C-R         1.21     .013 2002.0627_15:15  247.69 n/a      .000
07301>       [L/S/n=  500./ .140/.035]
07302>       [Vmax=  .158:Dmax=  .086]
07303> R2002:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07304>      CONTINUOUS NASHYD     5.0 01:INT-3         5.71     .162 2002.0627_14:40  249.83 .454     .000
07305>       [CN= 58.5: N= 3.00: Tp=  .89]
07306>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
07307>       [InterEventTime=  12.00]
07308> R2002:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07309>      ADD HYD              49.51     .378 2002.0627_15:25  248.45 n/a      .000
07310>                     +     5.0 02:INT-1          4.39     .077 2002.0627_15:25  250.15 n/a      .000
07311>                     +     5.0 02:INT-2          3.61     .072 2002.0627_14:45  248.41 n/a      .000
07312>                     +     5.0 02:INT-3          5.71     .162 2002.0627_14:40  249.83 n/a      .000
07313>                     +     5.0 02:A3A            3.84     .071 2002.0627_15:15  249.83 n/a      .000
07314>                     +     5.0 02:A3B            5.29     .071 2002.0627_15:05  247.93 n/a      .000
07315>                     +     5.0 02:A3C-R          1.21     .013 2002.0627_15:15  247.69 n/a      .000
07316>                   SUM=    5.0 01:J2            73.56     .795 2002.0627_15:05  248.68 n/a      .000
07317> R2002:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07318>      ROUTE CHANNEL   ->    5.0 02:J2            73.56     .795 2002.0627_15:05  248.68 n/a      .000
07319>       [RDT= 5.00] out<-    5.0 01:R2            73.56     .790 2002.0627_15:10  248.68 n/a      .000
07320>       [L/S/n=  359./ .560/.035]
07321>       [Vmax=  .731:Dmax=  .273]
07322> R2002:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07323>      CONTINUOUS NASHYD     5.0 01:A1A           21.43     .182 2002.0627_15:30  247.63 .450     .000
07324>       [CN= 36.1: N= 3.00: Tp= 1.68]
07325>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
07326>       [InterEventTime=  12.00]
07327> R2002:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07328>      CONTINUOUS NASHYD     5.0 01:A1B           4.70     .051 2002.0627_15:30  248.02 .451     .000
07329>       [CN= 44.6: N= 3.00: Tp= 1.72]
07330>       [IaREC= 6.00: SMIN=134.47: SMAX=896.47: SK= .030]
07331>       [InterEventTime=  12.00]
07332> R2002:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07333>      CONTINUOUS NASHYD     5.0 01:A2            9.14     .269 2002.0627_14:50  251.56 .457     .000
07334>       [CN= 68.4: N= 3.00: Tp= 1.12]
07335>       [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
07336>       [InterEventTime=  12.00]
07337> R2002:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07338>      ADD HYD              73.56     .790 2002.0627_15:10  248.68 n/a      .000
07339>                     +     5.0 02:A1A           21.43     .182 2002.0627_15:30  247.63 n/a      .000
07340>                     +     5.0 02:A1B            4.70     .051 2002.0627_15:30  248.02 n/a      .000
07341>                     +     5.0 02:A2             9.14     .269 2002.0627_14:50  251.56 n/a      .000
07342>                   SUM=    5.0 01:J3           108.84    1.269 2002.0627_15:10  248.69 n/a      .000
07343> R2002:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07344>      ROUTE CHANNEL   ->    5.0 02:J3           108.84    1.269 2002.0627_15:10  248.69 n/a      .000
07345>       [RDT= 5.00] out<-    5.0 01:R3           108.84    1.252 2002.0627_15:20  248.69 n/a      .000
07346>       [L/S/n=  396./ .305/.035]
07347>       [Vmax=  .546:Dmax=  .438]
07348> R2002:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07349>      CONTINUOUS NASHYD     5.0 01:SOUTH-1       20.21     .190 2002.0627_15:10  247.58 .450     .000
07350>       [CN= 35.5: N= 3.00: Tp= 1.40]
07351>       [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
07352>       [InterEventTime=  12.00]
07353> R2002:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07354>      ADD HYD              73.56    1.252 2002.0627_15:20  248.69 n/a      .000
07355>                     +     5.0 02:SOUTH-1       20.21     .190 2002.0627_15:10  247.58 n/a      .000
07356>                   SUM=    5.0 01:J4           129.05    1.441 2002.0627_15:20  248.51 n/a      .000
07357> R2002:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07358>      ROUTE CHANNEL   ->    5.0 02:J4           129.05    1.441 2002.0627_15:20  248.51 n/a      .000
07359>       [RDT= 5.00] out<-    5.0 01:R4           129.05    1.420 2002.0627_15:30  248.51 n/a      .000
07360>       [L/S/n=  482./ .410/.035]
07361>       [Vmax=  .687:Dmax=  .467]
07362> R2002:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07363>      CONTINUOUS NASHYD     5.0 01:SOUTH-2       11.61     .157 2002.0627_14:45  247.63 .450     .000
07364>       [CN= 36.7: N= 3.00: Tp=  .96]
07365>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
07366>       [InterEventTime=  12.00]
07367> R2002:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07368>      ADD HYD              73.56    1.420 2002.0627_15:30  248.51 n/a      .000
07369>                     +     5.0 02:SOUTH-2       11.61     .157 2002.0627_14:45  247.63 n/a      .000
07370>                   SUM=    5.0 01:J5           140.66    1.535 2002.0627_15:25  248.44 n/a      .000
07371> R2002:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07372>      ROUTE CHANNEL   ->    5.0 02:J5           140.66    1.535 2002.0627_15:25  248.44 n/a      .000
07373>       [RDT= 5.00] out<-    5.0 01:R5           140.66    1.532 2002.0627_15:30  248.44 n/a      .000
07374>       [L/S/n=  181./ .500/.035]
07375>       [Vmax=  .662:Dmax=  .407]
07376> R2002:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07377>      CONTINUOUS NASHYD     5.0 01:SOUTH-3        7.98     .144 2002.0627_14:40  247.93 .450     .000
07378>       [CN= 42.6: N= 3.00: Tp=  .89]
07379>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
07380>       [InterEventTime=  12.00]

07381> R2002:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07382>      ADD HYD              5.0 02:R5           140.66    1.532 2002.0627_15:30  248.44 n/a      .000
07383>                     +     5.0 02:SOUTH-3        7.98     .144 2002.0627_14:40  247.93 n/a      .000
07384>                   SUM=    5.0 01:J6           148.64    1.624 2002.0627_15:25  248.41 n/a      .000
07385> R2002:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07386>      SAVE HYD             5.0 01:J6           148.64    1.624 2002.0627_15:25  248.41 n/a      .000
07387>       fname :J6.2002
07388>       remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
07389> R2002:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07390>      ROUTE CHANNEL   ->    5.0 02:J6           148.64    1.624 2002.0627_15:25  248.41 n/a      .000
07391>       [RDT= 5.00] out<-    5.0 01:R6           148.64    1.616 2002.0627_15:35  248.41 n/a      .000
07392>       [L/S/n=  323./ .440/.035]
07393>       [Vmax=  .725:Dmax=  .484]
07394> R2002:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07395>      CONTINUOUS NASHYD     5.0 01:SOUTH-4       14.99     .181 2002.0627_15:00  247.75 .450     .000
07396>       [CN= 39.5: N= 3.00: Tp= 1.23]
07397>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
07398>       [InterEventTime=  12.00]
07399> R2002:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07400>      ADD HYD              5.0 02:R6           148.64    1.616 2002.0627_15:35  248.41 n/a      .000
07401>                     +     5.0 02:SOUTH-4       14.99     .181 2002.0627_15:00  247.75 n/a      .000
07402>                   SUM=    5.0 01:Total        163.63    1.778 2002.0627_15:30  248.35 n/a      .000
07403> #=============================================================================
07404> #=============================================================================
07405> ##############################################################################
07406> # CONTINUOUS RAINFALL DATA
07407> ##############################################################################
07408> #*****************************************************************************
07409> # STORMS
07410> #*****************************************************************************
07411>   ** END OF RUN : 2002
07412>
07413> ************************************************************************************************
07414>
07415>
07416>
07417>
07418>
07419>  RUN#:COMMAND#
07420> R2003:C00001-------------------------------------------------------------------------------------
07421>      START
07422>       [TZERO =      .00 hrs on 20030401]
07423>       [METOUT=  2     (1=imperial, 2=metric output)]
07424>       [NSTORM=  0 ]
07425>       [NRUN  = 2003 ]
07426> #*************************************************************************
07427> #  SWMHYMO  / INPUT DATA FILE
07428> #*************************************************************************
07429> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
07430> #  Date        : 04-28-2021
07431> #  Modeller    : [J.B]
07432> #  Company     : JFSAinc.
07433> #  License #   : 2549237
07434> #*************************************************************************
07435> #*************************************************************************
07436> #*************************************************************************
07437> # Ottawa International Airport - April 1st to October 31st
07438> R2003:C00002-------------------------------------------------------------------------------------
07439>      *  READ AES DATA
07440>       [Filename  = YOW_1967_2007.123                                    ]
07441>       [Start_date= 2003.0401: End_date= 2003.1031]
07442>       [DT= 60.min: Length= 4416.hrs: WetHrs=  406: DryHrs= 4010: PTOT= 554.60)
07443>       Maximum average rainfall intensities over
07444>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
07445>        15.10    10.00     7.13     4.28     3.18     1.86     1.25      .94      .81    mm/hr
07446>        15.10    20.00    21.40    25.70    38.20    44.60    44.90    45.10    58.30    mm
07447>       20030711 20030711 20030711 20030711 20031021 20031015 20030526 20030526 20030527  date
07448>       Number of rainfall events per following interevent time
07449>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
07450>          145      127      109       85       63       44       38       25       15
07451>       Number of events with at least the following durations
07452>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
07453>          144       80       43       13        5        1        0        0        0
07454> R2003:C00003-------------------------------------------------------------------------------------
07455>      COMPUTE API
07456>       [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
07457>       [APImax= 72.10: APIavg= 28.41: APImin=  4.70]
07458> R2003:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07459>      CONTINUOUS NASHYD     5.0 01:NORTH-1       34.70     .062 2003.1021_11:35  179.04 .323     .000
07460>       [CN= 38.1: N= 3.00: Tp= 4.12]
07461>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
07462>       [InterEventTime=  12.00]
07463> R2003:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07464>      CONTINUOUS NASHYD     5.0 01:NORTH-2       12.44     .065 2003.0711_17:55  183.22 .330     .000
07465>       [CN= 53.0: N= 3.00: Tp= 1.29]
07466>       [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
07467>       [InterEventTime=  12.00]
07468> R2003:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07469>      CONTINUOUS NASHYD     5.0 01:HWY-1         2.36     .031 2003.0711_17:45  199.04 .359     .000
07470>       [CN= 81.7: N= 3.00: Tp= 1.21]
07471>       [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
07472>       [InterEventTime=  12.00]
07473> R2003:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07474>      ADD HYD              5.0 02:NORTH-1       34.70     .062 2003.1021_11:35  179.04 n/a      .000
07475>                     +     5.0 02:NORTH-2       12.44     .065 2003.0711_17:55  183.22 n/a      .000
07476>                     +     5.0 02:HWY-1          2.36     .031 2003.0711_17:45  199.04 n/a      .000
07477>                   SUM=    5.0 01:J1            49.51     .135 2003.1021_ 9:30  181.05 n/a      .000
07478> R2003:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07479>      ROUTE CHANNEL   ->    5.0 02:J1            49.51     .135 2003.1021_ 9:30  181.05 n/a      .000
07480>  *   [RDT= 5.00] out<-     5.0 01:R1            49.51     .134 2003.1021_ 9:45  181.05 n/a      .000
07481>       [L/S/n=  478./ .440/.035]
07482>       [Vmax=  .428:Dmax=  .188]
07483> R2003:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07484>      CONTINUOUS NASHYD     5.0 01:INT-1         4.39     .024 2003.1021_ 9:35  186.02 .335     .000
07485>       [CN= 60.4: N= 3.00: Tp= 1.66]
07486>       [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
07487>       [InterEventTime=  12.00]
07488> R2003:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07489>      CONTINUOUS NASHYD     5.0 01:INT-2         3.61     .020 2003.0711_17:35  181.39 .327     .000
07490>       [CN= 47.4: N= 3.00: Tp=  .95]
07491>       [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
07492>       [InterEventTime=  12.00]
07493> R2003:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07494>      CONTINUOUS NASHYD     5.0 01:A3A           3.84     .022 2003.0711_18:05  185.19 .334     .000
07495>       [CN= 58.4: N= 3.00: Tp= 1.46]
07496>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
07497>       [InterEventTime=  12.00]
07498> R2003:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07499>      CONTINUOUS NASHYD     5.0 01:A3B           5.29     .020 2003.0711_17:55  180.02 .325     .000
07500>       [CN= 42.6: N= 3.00: Tp= 1.26]
07501>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
07502>       [InterEventTime=  12.00]
07503> R2003:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07504>      CONTINUOUS NASHYD     5.0 01:A3C           1.21     .005 2003.0711_17:35  178.72 .322     .000
07505>       [CN= 37.8: N= 3.00: Tp=  .87]
07506>       [IaREC= 6.00: SMIN=179.29: SMAX=******: SK= .030]
07507>       [InterEventTime=  12.00]
07508> R2003:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07509>      ROUTE CHANNEL   ->    5.0 02:A3C           1.21     .005 2003.0711_17:35  178.72 n/a      .000
07510>  *   [RDT= 5.00] out<-     5.0 01:A3C-R         1.21     .003 2003.1021_ 9:25  178.72 n/a      .000
07511>       [L/S/n=  500./ .140/.035]
07512>       [Vmax=  .098:Dmax=  .049]
07513> R2003:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07514>      CONTINUOUS NASHYD     5.0 01:INT-3         5.71     .047 2003.0711_17:35  185.19 .334     .000
07515>       [CN= 58.5: N= 3.00: Tp=  .89]
07516>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
07517>       [InterEventTime=  12.00]
07518> R2003:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07519>      ADD HYD              5.0 02:R1           49.51     .134 2003.1021_ 9:45  181.05 n/a      .000
07520>                     +     5.0 02:INT-1         4.39     .024 2003.1021_ 9:35  186.02 n/a      .000
07521>                     +     5.0 02:INT-2         3.61     .020 2003.0711_17:35  181.39 n/a      .000
07522>                     +     5.0 02:INT-3         5.71     .047 2003.0711_17:35  185.19 n/a      .000
07523>                     +     5.0 02:A3A           3.84     .022 2003.0711_18:05  185.19 n/a      .000
07524>                     +     5.0 02:A3B           5.29     .020 2003.0711_17:55  180.02 n/a      .000
07525>                     +     5.0 02:A3C-R         1.21     .003 2003.1021_ 9:25  178.72 n/a      .000
07526>                   SUM=    5.0 01:J2           73.56     .250 2003.1021_ 9:25  181.79 n/a      .000
07527> R2003:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07528>      ROUTE CHANNEL   ->    5.0 02:J2           73.56     .250 2003.1021_ 9:25  181.79 n/a      .000
07529>  *   [RDT= 5.00] out<-     5.0 01:R2           73.56     .249 2003.1021_ 9:30  181.79 n/a      .000
07530>       [L/S/n=  359./ .560/.035]
07531>       [Vmax=  .499:Dmax=  .153]
07532> R2003:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07533>      CONTINUOUS NASHYD     5.0 01:A1A           21.43     .057 2003.1021_ 9:40  178.41 .322     .000
07534>       [CN= 36.1: N= 3.00: Tp= 1.68]
07535>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
07536>       [InterEventTime=  12.00]
07537> R2003:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07538>      CONTINUOUS NASHYD     5.0 01:A1B           4.70     .016 2003.1021_ 9:40  180.35 .325     .000
07539>       [CN= 44.6: N= 3.00: Tp= 1.72]
07540>       [IaREC= 6.00: SMIN=134.47: SMAX=896.47: SK= .030]
07541>       [InterEventTime=  12.00]
07542> R2003:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07543>      CONTINUOUS NASHYD     5.0 01:A2            9.14     .085 2003.0711_17:45  189.65 .342     .000
07544>       [CN= 68.4: N= 3.00: Tp= 1.12]
07545>       [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
07546>       [InterEventTime=  12.00]
07547> R2003:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07548>      ADD HYD              5.0 02:R2           73.56     .249 2003.1021_ 9:30  181.79 n/a      .000
07549>                     +     5.0 02:A1A           21.43     .057 2003.1021_ 9:40  178.41 n/a      .000
07550>                     +     5.0 02:A1B            4.70     .016 2003.1021_ 9:40  180.35 n/a      .000
07551>                     +     5.0 02:A2             9.14     .085 2003.0711_17:45  189.65 n/a      .000
07552>                   SUM=    5.0 01:J3           108.84     .389 2003.1021_ 9:30  181.72 n/a      .000
07553> R2003:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07554>      ROUTE CHANNEL   ->    5.0 02:J3           108.84     .389 2003.1021_ 9:30  181.72 n/a      .000
07555>  *   [RDT= 5.00] out<-     5.0 01:R3           108.84     .384 2003.1021_ 9:40  181.72 n/a      .000
07556>       [L/S/n=  396./ .305/.035]
07557>       [Vmax=  .408:Dmax=  .302]
07558> R2003:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07559>      CONTINUOUS NASHYD     5.0 01:SOUTH-1       20.21     .055 2003.1021_ 9:25  178.10 .321     .000
07560>       [CN= 35.5: N= 3.00: Tp= 1.40]
```

```
07561>       [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
07562>       [InterEventTime=  12.00]
07563> R2003:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07564>     ADD HYD            5.0 02:R3          108.84     .384 2003.1021_ 9:40  181.72  n/a     .000
07565>                  +     5.0 02:SOUTH-1      20.21     .055 2003.1021_ 9:25  178.10  n/a     .000
07566>                SUM=    5.0 01:J4          129.05     .438 2003.1021_ 9:40  181.15  n/a     .000
07567> R2003:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07568>     ROUTE CHANNEL   ->     5.0 02:J4          129.05     .438 2003.1021_ 9:40  181.15  n/a     .000
07569> *   [RD= 5.00] out<-       5.0 01:R4          129.05     .434 2003.1021_ 9:50  181.15  n/a     .000
07570>       [L/S/n=  482./ .410/.035]
07571>       [Vmax=  .541:Dmax=  .293]
07572> R2003:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07573>     CONTINUOUS NASHYD      5.0 01:SOUTH-2      11.61     .041 2003.0711_17:40  178.41 .322     .000
07574>       [CN= 36.7: N= 3.00: Tp=  .96]
07575>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
07576>       [InterEventTime=  12.00]
07577> R2003:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07578>     ADD HYD            5.0 02:R4          129.05     .434 2003.1021_ 9:50  181.15  n/a     .000
07579>                  +     5.0 02:SOUTH-2      11.61     .041 2003.0711_17:40  178.41  n/a     .000
07580>                SUM=    5.0 01:J5          140.66     .465 2003.1021_ 9:45  180.93  n/a     .000
07581> R2003:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07582>     ROUTE CHANNEL   ->     5.0 02:J5          140.66     .465 2003.1021_ 9:45  180.93  n/a     .000
07583> *   [RD= 5.00] out<-       5.0 01:R5          140.66     .464 2003.1021_ 9:50  180.93  n/a     .000
07584>       [L/S/n=  181./ .500/.035]
07585>       [Vmax=  .515:Dmax=  .267]
07586> R2003:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07587>     CONTINUOUS NASHYD      5.0 01:SOUTH-3       7.98     .038 2003.0711_17:35  180.02 .325     .000
07588>       [CN= 42.6: N= 3.00: Tp=  .89]
07589>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
07590>       [InterEventTime=  12.00]
07591> R2003:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07592>     ADD HYD            5.0 02:R5          140.66     .464 2003.1021_ 9:50  180.93  n/a     .000
07593>                  +     5.0 02:SOUTH-3       7.98     .038 2003.0711_17:35  180.02  n/a     .000
07594>                SUM=    5.0 01:J6          148.64     .489 2003.1021_ 9:45  180.88  n/a     .000
07595> R2003:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07596>     SAVE HYD           5.0 01:J6          148.64     .489 2003.1021_ 9:45  180.88  n/a     .000
07597>       fname :J6.2003
07598>       remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
07599> R2003:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07600>     ROUTE CHANNEL   ->     5.0 02:J6          148.64     .489 2003.1021_ 9:45  180.88  n/a     .000
07601> *   [RD= 5.00] out<-       5.0 01:R6          148.64     .487 2003.1021_ 9:55  180.88  n/a     .000
07602>       [L/S/n=  323./ .440/.035]
07603>       [Vmax=  .570:Dmax=  .302]
07604> R2003:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07605>     CONTINUOUS NASHYD      5.0 01:SOUTH-4      14.99     .049 2003.0711_17:50  179.04 .323     .000
07606>       [CN= 39.5: N= 3.00: Tp= 1.23]
07607>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
07608>       [InterEventTime=  12.00]
07609> R2003:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07610>     ADD HYD            5.0 02:R6          148.64     .487 2003.1021_ 9:55  180.88  n/a     .000
07611>                  +     5.0 02:SOUTH-4      14.99     .049 2003.0711_17:50  179.04  n/a     .000
07612>                SUM=    5.0 01:Total       163.63     .532 2003.1021_ 9:50  180.71  n/a     .000
07613> #===============================================================
07614> #===============================================================
07615> ##################################################################################
07616> # CONTINUOUS RAINFALL DATA
07617> ##################################################################################
07618> #*********************************************************************************
07619> # STORMS
07620> #*********************************************************************************
07621>  ** END OF RUN : 2003
07622>
07623> ***********************************************************************************************************
07624>
07625>
07626>
07627>
07628>
07629>  RUN#:COMMAND#
07630> R2004:C00001------------------------------------------------------------------------------------------------
07631>       START              [TZERO =    .00 hrs on 20040401]
07632>       [METOUT=   2   (1=imperial, 2=metric output)]
07633>       [NSTORM=   0 ]
07634>       [NRUN  = 2004 ]
07635> #*********************************************************************
07636> #  SWMHYMO  / INPUT DATA FILE
07637> #*********************************************************************
07638> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
07639> #  Date          : 04-28-2021
07640> #  Modeller      : [J.B]
07641> #  Company       : JFSAinc.
07642> #  License #     :  2549237
07643> #*********************************************************************
07644> #*********************************************************************
07645> #*********************************************************************
07646> #*********************************************************************
07647> # Ottawa International Airport - April 1st to October 31st
07648> R2004:C00002------------------------------------------------------------------------------------------------
07649>  *  READ AES DATA
07650>       [Filename  = YOW_1967_2007.123                                  ]
07651>       [Start_date= 2004.0401: End_date= 2004.1031]
07652>       [DT= 60.min: Length= 5040.hrs: WetHrs=  327: DryHrs= 4713: PTOT= 573.30)
07653>       Maximum average rainfall intensities over
07654>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
07655>        30.30    23.40    20.23    15.87    10.42     5.69     3.79     2.85     1.98    mm/hr
07656>        30.30    46.80    60.70    95.20   125.00   136.60   136.60   136.60   142.30    mm
07657>       20040909 20040909 20040909 20040909 20040909 20040909 20040909 20040910 20040910  date
07658>       Number of rainfall events per following interevent time
07659>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
07660>          121       99       88       68       56       48       40       27       20
07661>       Number of events with at least the following durations
07662>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
07663>          120       74       41       11        1        1        0        0        0
07664> R2004:C00003------------------------------------------------------------------------------------------------
07665>       COMPUTE API
07666>       [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
07667>       [APImax=143.97: APIavg= 27.32: APImin=  7.60]
07668> R2004:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07669>     CONTINUOUS NASHYD      5.0 01:NORTH-1      34.70     .534 2004.0909_17:00  236.78 .413     .000
07670>       [CN= 38.1: N= 3.00: Tp= 4.12]
07671>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
07672>       [InterEventTime=  12.00]
07673> R2004:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07674>     CONTINUOUS NASHYD      5.0 01:NORTH-2      12.44     .346 2004.0909_14:30  238.88 .417     .000
07675>       [CN= 53.0: N= 3.00: Tp= 1.29]
07676>       [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
07677>       [InterEventTime=  12.00]
07678> R2004:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07679>     CONTINUOUS NASHYD      5.0 01:HWY-1         2.36     .112 2004.0909_11:20  245.26 .428     .000
07680>       [CN= 81.7: N= 3.00: Tp= 1.21]
07681>       [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
07682>       [InterEventTime=  12.00]
07683> R2004:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07684>     ADD HYD            5.0 02:NORTH-1      34.70     .534 2004.0909_17:00  236.78  n/a     .000
07685>                  +     5.0 02:NORTH-2      12.44     .346 2004.0909_14:30  238.88  n/a     .000
07686>                  +     5.0 02:HWY-1         2.36     .112 2004.0909_11:20  245.26  n/a     .000
07687>                SUM=    5.0 01:J1          49.51     .889 2004.0909_15:30  237.71  n/a     .000
07688> R2004:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07689>     ROUTE CHANNEL   ->     5.0 02:J1          49.51     .889 2004.0909_15:30  237.71  n/a     .000
07690> *   [RD= 5.00] out<-       5.0 01:R1          49.51     .884 2004.0909_15:45  237.71  n/a     .000
07691>       [L/S/n=  478./ .440/.035]
07692>       [Vmax=  .602:Dmax=  .407]
07693> R2004:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07694>     CONTINUOUS NASHYD      5.0 01:INT-1         4.39     .133 2004.0909_13:50  240.05 .419     .000
07695>       [CN= 60.4: N= 3.00: Tp= 1.66]
07696>       [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
07697>       [InterEventTime=  12.00]
07698> R2004:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07699>     CONTINUOUS NASHYD      5.0 01:INT-2         3.61     .097 2004.0909_11:25  238.03 .415     .000
07700>       [CN= 47.4: N= 3.00: Tp=  .95]
07701>       [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
07702>       [InterEventTime=  12.00]
07703> R2004:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07704>     CONTINUOUS NASHYD      5.0 01:A3A           3.84     .115 2004.0909_13:45  239.72 .418     .000
07705>       [CN= 58.4: N= 3.00: Tp= 1.46]
07706>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
07707>       [InterEventTime=  12.00]
07708> R2004:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07709>     CONTINUOUS NASHYD      5.0 01:A3B           5.29     .124 2004.0909_15:10  237.32 .414     .000
07710>       [CN= 42.6: N= 3.00: Tp= 1.26]
07711>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
07712>       [InterEventTime=  12.00]
07713> R2004:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07714>     CONTINUOUS NASHYD      5.0 01:A3C           1.21     .026 2004.0909_14:35  236.59 .413     .000
07715>       [CN= 37.8: N= 3.00: Tp=  .87]
07716>       [IaREC= 6.00: SMIN=179.29: SMAX=******: SK= .030]
07717>       [InterEventTime=  12.00]
07718> R2004:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07719>     ROUTE CHANNEL   ->     5.0 02:A3C           1.21     .026 2004.0909_14:35  236.59  n/a     .000
07720> *   [RD= 5.00] out<-       5.0 01:A3C-R         1.21     .025 2004.0909_15:15  236.59  n/a     .000
07721>       [L/S/n=  500./ .140/.035]
07722>       [Vmax=  .178:Dmax=  .100]
07723> R2004:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07724>     CONTINUOUS NASHYD      5.0 01:INT-3         5.71     .202 2004.0909_11:15  239.72 .418     .000
07725>       [CN= 58.5: N= 3.00: Tp=  .89]
07726>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
07727>       [InterEventTime=  12.00]
07728> R2004:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07729>     ADD HYD            5.0 02:R1          49.51     .884 2004.0909_15:45  237.71  n/a     .000
07730>                  +     5.0 02:INT-1         4.39     .133 2004.0909_13:50  240.05  n/a     .000
07731>                  +     5.0 02:INT-2         3.61     .097 2004.0909_11:25  238.03  n/a     .000
07732>                  +     5.0 02:INT-3         5.71     .202 2004.0909_11:15  239.72  n/a     .000
07733>                  +     5.0 02:A3A           3.84     .115 2004.0909_13:45  239.72  n/a     .000
07734>                  +     5.0 02:A3B           5.29     .124 2004.0909_15:10  237.33  n/a     .000
07735>                  +     5.0 02:A3C-R         1.21     .025 2004.0909_15:15  236.59  n/a     .000
07736>                SUM=    5.0 01:J2          73.56    1.512 2004.0909_15:15  238.08  n/a     .000
07737> R2004:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07738>     ROUTE CHANNEL   ->     5.0 02:J2          73.56    1.512 2004.0909_15:15  238.08  n/a     .000
07739> *   [RD= 5.00] out<-       5.0 01:R2          73.56    1.510 2004.0909_15:20  238.08  n/a     .000
07740>       [L/S/n=  359./ .560/.035]
07741>       [Vmax=  .893:Dmax=  .379]
07742> R2004:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07743>     CONTINUOUS NASHYD      5.0 01:A1A          21.43     .424 2004.0909_15:20  236.40 .412     .000
07744>       [CN= 36.1: N= 3.00: Tp= 1.68]
07745>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
07746>       [InterEventTime=  12.00]
07747> R2004:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07748>     CONTINUOUS NASHYD      5.0 01:A1B           4.70     .110 2004.0909_15:15  237.50 .414     .000
07749>       [CN= 44.6: N= 3.00: Tp= 1.72]
07750>       [IaREC= 6.00: SMIN=134.47: SMAX=896.47: SK= .030]
07751>       [InterEventTime=  12.00]
07752> R2004:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07753>     CONTINUOUS NASHYD      5.0 01:A2           9.14     .362 2004.0909_11:25  241.41 .421     .000
07754>       [CN= 68.4: N= 3.00: Tp= 1.12]
07755>       [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
07756>       [InterEventTime=  12.00]
07757> R2004:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07758>     ADD HYD            5.0 02:R2          73.56    1.510 2004.0909_15:20  238.08  n/a     .000
07759>                  +     5.0 02:A1A          21.43     .424 2004.0909_15:20  236.40  n/a     .000
07760>                  +     5.0 02:A1B           4.70     .110 2004.0909_15:15  237.50  n/a     .000
07761>                  +     5.0 02:A2            9.14     .362 2004.0909_11:25  241.41  n/a     .000
07762>                SUM=    5.0 01:J3          108.84    2.327 2004.0909_15:15  238.01  n/a     .000
07763> R2004:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07764>     ROUTE CHANNEL   ->     5.0 02:J3          108.84    2.327 2004.0909_15:15  238.01  n/a     .000
07765> *   [RD= 5.00] out<-       5.0 01:R3          108.84    2.323 2004.0909_15:20  238.01  n/a     .000
07766>       [L/S/n=  396./ .305/.035]
07767>       [Vmax=  .620:Dmax=  .524]
07768> R2004:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07769>     CONTINUOUS NASHYD      5.0 01:SOUTH-1      20.21     .393 2004.0909_15:15  236.21 .412     .000
07770>       [CN= 35.5: N= 3.00: Tp= 1.40]
07771>       [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
07772>       [InterEventTime=  12.00]
07773> R2004:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07774>     ADD HYD            5.0 02:R3          108.84    2.323 2004.0909_15:20  238.01  n/a     .000
07775>                  +     5.0 02:SOUTH-1      20.21     .393 2004.0909_15:15  236.21  n/a     .000
07776>                SUM=    5.0 01:J4          129.05    2.715 2004.0909_15:20  237.72  n/a     .000
07777> R2004:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07778>     ROUTE CHANNEL   ->     5.0 02:J4          129.05    2.715 2004.0909_15:20  237.72  n/a     .000
07779> *   [RD= 5.00] out<-       5.0 01:R4          129.05    2.710 2004.0909_15:25  237.72  n/a     .000
07780>       [L/S/n=  482./ .410/.035]
07781>       [Vmax=  .762:Dmax=  .594]
07782> R2004:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07783>     CONTINUOUS NASHYD      5.0 01:SOUTH-2      11.61     .238 2004.0909_14:40  236.40 .412     .000
07784>       [CN= 36.7: N= 3.00: Tp=  .96]
07785>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
07786>       [InterEventTime=  12.00]
07787> R2004:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07788>     ADD HYD            5.0 02:R4          129.05    2.710 2004.0909_15:25  237.72  n/a     .000
07789>                  +     5.0 02:SOUTH-2      11.61     .238 2004.0909_14:40  236.40  n/a     .000
07790>                SUM=    5.0 01:J5          140.66    2.942 2004.0909_15:20  237.62  n/a     .000
07791> R2004:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07792>     ROUTE CHANNEL   ->     5.0 02:J5          140.66    2.942 2004.0909_15:20  237.62  n/a     .000
07793> *   [RD= 5.00] out<-       5.0 01:R5          140.66    2.941 2004.0909_15:25  237.62  n/a     .000
07794>       [L/S/n=  181./ .500/.035]
07795>       [Vmax=  .713:Dmax=  .511]
07796> R2004:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07797>     CONTINUOUS NASHYD      5.0 01:SOUTH-3       7.98     .192 2004.0909_11:20  237.33 .414     .000
07798>       [CN= 42.6: N= 3.00: Tp=  .89]
07799>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
07800>       [InterEventTime=  12.00]
07801> R2004:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07802>     ADD HYD            5.0 02:R5          140.66    2.941 2004.0909_15:25  237.62  n/a     .000
07803>                  +     5.0 02:SOUTH-3       7.98     .192 2004.0909_11:20  237.32  n/a     .000
07804>                SUM=    5.0 01:J6          148.64    3.123 2004.0909_15:20  237.60  n/a     .000
07805> R2004:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07806>     SAVE HYD           5.0 01:J6          148.64    3.123 2004.0909_15:20  237.60  n/a     .000
07807>       fname :J6.2004
07808>       remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
07809> R2004:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07810>     ROUTE CHANNEL   ->     5.0 02:J6          148.64    3.123 2004.0909_15:20  237.60  n/a     .000
07811> *   [RD= 5.00] out<-       5.0 01:R6          148.64    3.121 2004.0909_15:25  237.60  n/a     .000
07812>       [L/S/n=  323./ .440/.035]
07813>       [Vmax=  .803:Dmax=  .618]
07814> R2004:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07815>     CONTINUOUS NASHYD      5.0 01:SOUTH-4      14.99     .324 2004.0909_15:10  236.78 .413     .000
07816>       [CN= 39.5: N= 3.00: Tp= 1.23]
07817>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
07818>       [InterEventTime=  12.00]
07819> R2004:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07820>     ADD HYD            5.0 02:R6          148.64    3.121 2004.0909_15:25  237.60  n/a     .000
07821>                  +     5.0 02:SOUTH-4      14.99     .324 2004.0909_15:10  236.78  n/a     .000
07822>                SUM=    5.0 01:Total       163.63    3.441 2004.0909_15:20  237.52  n/a     .000
07823> #===============================================================
07824> #===============================================================
07825> ##################################################################################
07826> # CONTINUOUS RAINFALL DATA
07827> ##################################################################################
07828> #*********************************************************************************
07829> # STORMS
07830> #*********************************************************************************
07831>  ** END OF RUN : 2005
07832>
07833> ***********************************************************************************************************
07834>
07835>
07836>
07837>
07838>
07839>  RUN#:COMMAND#
07840> R2006:C00001------------------------------------------------------------------------------------------------
07841>       START              [TZERO =    .00 hrs on 20060401]
07842>       [METOUT=   2   (1=imperial, 2=metric output)]
07843>       [NSTORM=   0 ]
07844>       [NRUN  = 2006 ]
07845> #*********************************************************************
07846> #  SWMHYMO  / INPUT DATA FILE
07847> #*********************************************************************
07848> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
07849> #  Date          : 04-28-2021
07850> #  Modeller      : [J.B]
07851> #  Company       : JFSAinc.
07852> #  License #     :  2549237
07853> #*********************************************************************
07854> #*********************************************************************
07855> #*********************************************************************
07856> #*********************************************************************
07857> # Ottawa International Airport - April 1st to October 31st
07858> R2006:C00002------------------------------------------------------------------------------------------------
07859>  *  READ AES DATA
07860>       [Filename  = YOW_1967_2007.123                                  ]
07861>       [Start_date= 2006.0401: End_date= 2006.1031]
07862>       [DT= 60.min: Length= 5112.hrs: WetHrs=  477: DryHrs= 4635: PTOT= 723.40)
07863>       Maximum average rainfall intensities over
07864>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
07865>        16.90    10.60     9.23     6.67     3.84     2.11     1.49     1.32     1.03    mm/hr
07866>        16.90    21.20    27.70    40.00    46.10    50.70    53.60    63.50    74.20    mm
07867>       20060801 20060903 20060903 20060903 20060903 20060903 20060903 20060802 20060803  date
07868>       Number of rainfall events per following interevent time
07869>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
07870>          141      113       98       74       60       47       40       30       21
07871>       Number of events with at least the following durations
07872>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
07873>          140       88       58       22        9        0        0        0        0
07874> R2006:C00003------------------------------------------------------------------------------------------------
07875>       COMPUTE API
07876>       [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
07877>       [APImax= 85.47: APIavg= 32.83: APImin=  8.90]
07878> R2006:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07879>     CONTINUOUS NASHYD      5.0 01:NORTH-1      34.70     .055 2006.0801_ 6:30  284.68 .394     .000
07880>       [CN= 38.1: N= 3.00: Tp= 4.12]
07881>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
07882>       [InterEventTime=  12.00]
07883> R2006:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07884>     CONTINUOUS NASHYD      5.0 01:NORTH-2      12.44     .077 2006.0801_ 3:55  286.55 .396     .000
07885>       [CN= 53.0: N= 3.00: Tp= 1.29]
07886>       [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
07887>       [InterEventTime=  12.00]
07888> R2006:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07889>     CONTINUOUS NASHYD      5.0 01:HWY-1         2.36     .036 2006.0801_ 3:45  294.61 .407     .000
07890>       [CN= 81.7: N= 3.00: Tp= 1.21]
07891>       [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
07892>       [InterEventTime=  12.00]
07893> R2006:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07894>     ADD HYD            5.0 02:NORTH-1      34.70     .055 2006.0801_ 6:30  284.68  n/a     .000
07895>                  +     5.0 02:NORTH-2      12.44     .077 2006.0801_ 3:55  286.55  n/a     .000
07896>                  +     5.0 02:HWY-1         2.36     .036 2006.0801_ 3:45  294.61  n/a     .000
07897>                SUM=    5.0 01:J1          49.51     .147 2006.0801_ 4:00  285.62  n/a     .000
07898> R2006:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07899>     ROUTE CHANNEL   ->     5.0 02:J1          49.51     .147 2006.0801_ 4:00  285.62  n/a     .000
07900> *   [RD= 5.00] out<-       5.0 01:R1          49.51     .143 2006.0801_ 4:15  285.62  n/a     .000
07901>       [L/S/n=  478./ .440/.035]
07902>       [Vmax=  .437:Dmax=  .194]
07903> R2006:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07904>     CONTINUOUS NASHYD      5.0 01:INT-1         4.39     .028 2006.0801_ 4:10  287.87 .398     .000
07905>       [CN= 60.4: N= 3.00: Tp= 1.66]
07906>       [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
07907>       [InterEventTime=  12.00]
07908> R2006:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07909>     CONTINUOUS NASHYD      5.0 01:INT-2         3.61     .023 2006.0801_ 3:35  285.72 .395     .000
07910>       [CN= 47.4: N= 3.00: Tp=  .95]
07911>       [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
07912>       [InterEventTime=  12.00]
07913> R2006:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07914>     CONTINUOUS NASHYD      5.0 01:A3A           3.84     .026 2006.0801_ 4:00  287.47 .397     .000
07915>       [CN= 58.4: N= 3.00: Tp= 1.46]
07916>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
07917>       [InterEventTime=  12.00]
07918> R2006:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07919>     CONTINUOUS NASHYD      5.0 01:A3B           5.29     .024 2006.0801_ 3:50  285.11 .394     .000
07920>       [CN= 42.6: N= 3.00: Tp= 1.26]
```

```
07921>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
07922>       [InterEventTime=  12.00]
07923> R2006:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07924>      CONTINUOUS NASHYD     5.0 01:A3C            1.21      .006 2006.0801_ 3:35  284.54 .393     .000
07925>       [CN= 37.8: N= 3.00: Tp=  .87]
07926>       [IaREC= 6.00: SMIN=179.29: SMAX=*****: SK= .030]
07927>       [InterEventTime=  12.00]
07928> R2006:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07929>      ROUTE CHANNEL   ->    5.0 02:A3C            1.21      .006 2006.0801_ 3:35  284.54  n/a     .000
07930> *   [RDT= 5.00]-out<-     5.0 01:A3C-R          1.21      .004 2006.0801_ 4:10  284.54  n/a     .000
07931>       [L/S/n=  500./ .140./.035]
07932>       [Vmax=  .102:Dmax=  .052)
07933> R2006:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07934>      CONTINUOUS NASHYD     5.0 01:INT-3          5.71      .055 2006.0801_ 3:35  287.47 .397     .000
07935>       [CN= 58.5: N= 3.00: Tp=  .89]
07936>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
07937>       [InterEventTime=  12.00]
07938> R2006:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07939>      ADD HYD               5.0 02:R1            49.51      .143 2006.0801_ 4:15  285.62  n/a     .000
07940>                       +    5.0 02:INT-1          4.39      .028 2006.0801_ 4:10  287.87  n/a     .000
07941>                       +    5.0 02:INT-2          3.61      .023 2006.0801_ 3:35  285.72  n/a     .000
07942>                       +    5.0 02:INT-3          5.71      .055 2006.0801_ 3:35  287.47  n/a     .000
07943>                       +    5.0 02:A3A            3.84      .026 2006.0801_ 4:00  287.47  n/a     .000
07944>                       +    5.0 02:A3B            5.29      .024 2006.0801_ 3:50  285.11  n/a     .000
07945>                       +    5.0 02:A3C-R          1.21      .004 2006.0801_ 4:10  284.54  n/a     .000
07946>                     SUM=   5.0 01:J2            73.56      .287 2006.0801_ 3:55  285.95  n/a     .000
07947> R2006:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07948>      ROUTE CHANNEL   ->    5.0 02:J2            73.56      .287 2006.0801_ 3:55  285.95  n/a     .000
07949> *   [RDT= 5.00]-out<-     5.0 01:R2            73.56      .284 2006.0801_ 4:05  285.95  n/a     .000
07950>       [L/S/n=  359./ .560/.035]
07951>       [Vmax=  .519:Dmax=  .163)
07952> R2006:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07953>      CONTINUOUS NASHYD     5.0 01:A1A           21.43      .061 2006.0801_ 4:15  284.41 .393     .000
07954>       [CN= 36.1: N= 3.00: Tp= 1.68]
07955>       [IaREC= 6.00: SMIN=191.09: SMAX=*****: SK= .030]
07956>       [InterEventTime=  12.00]
07957> R2006:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07958>      CONTINUOUS NASHYD     5.0 01:A1B            4.70      .017 2006.0801_ 4:15  285.25 .394     .000
07959>       [CN= 44.6: N= 3.00: Tp= 1.72]
07960>       [IaREC= 6.00: SMIN=134.47: SMAX=896.47: SK= .030]
07961>       [InterEventTime=  12.00]
07962> R2006:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07963>      CONTINUOUS NASHYD     5.0 01:A2             9.14      .099 2006.0801_ 3:45  289.66 .400     .000
07964>       [CN= 68.4: N= 3.00: Tp= 1.12]
07965>       [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
07966>       [InterEventTime=  12.00]
07967> R2006:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07968>      ADD HYD              5.0 02:R2            73.56      .284 2006.0801_ 4:05  285.95  n/a     .000
07969>                       +    5.0 02:A1A           21.43      .061 2006.0801_ 4:15  284.41  n/a     .000
07970>                       +    5.0 02:A1B            4.70      .017 2006.0801_ 4:15  285.25  n/a     .000
07971>                       +    5.0 02:A2             9.14      .099 2006.0801_ 3:45  289.66  n/a     .000
07972>                     SUM=   5.0 01:J3           108.84      .454 2006.0801_ 4:00  285.93  n/a     .000
07973> R2006:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07974>      ROUTE CHANNEL   ->    5.0 02:J3           108.84      .454 2006.0801_ 4:00  285.93  n/a     .000
07975> *   [RDT= 5.00]-out<-     5.0 01:R3           108.84      .441 2006.0801_ 4:15  285.93  n/a     .000
07976>       [L/S/n=  396./ .305/.035]
07977>       [Vmax=  .419:Dmax=  .320)
07978> R2006:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07979>      CONTINUOUS NASHYD     5.0 01:SOUTH-1       20.21      .062 2006.0801_ 4:00  284.28 .393     .000
07980>       [CN= 35.5: N= 3.00: Tp= 1.40]
07981>       [IaREC= 6.00: SMIN=204.20: SMAX=*****: SK= .030]
07982>       [InterEventTime=  12.00]
07983> R2006:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07984>      ADD HYD              5.0 02:R3            108.84      .441 2006.0801_ 4:15  285.93  n/a     .000
07985>                       +    5.0 02:SOUTH-1       20.21      .062 2006.0801_ 4:00  284.28  n/a     .000
07986>                     SUM=   5.0 01:J4           129.05      .502 2006.0801_ 4:15  285.67  n/a     .000
07987> R2006:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07988>      ROUTE CHANNEL   ->    5.0 02:J4           129.05      .502 2006.0801_ 4:15  285.67  n/a     .000
07989> *   [RDT= 5.00]-out<-     5.0 01:R4           129.05      .492 2006.0801_ 4:25  285.67  n/a     .000
07990>       [L/S/n=  482./ .410/.035]
07991>       [Vmax=  .558:Dmax=  .311)
07992> R2006:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07993>      CONTINUOUS NASHYD     5.0 01:SOUTH-2       11.61      .049 2006.0801_ 3:40  284.41 .393     .000
07994>       [CN= 36.7: N= 3.00: Tp=  .96]
07995>       [IaREC= 6.00: SMIN=191.09: SMAX=*****: SK= .030]
07996>       [InterEventTime=  12.00]
07997> R2006:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07998>      ADD HYD              5.0 02:R4            129.05      .492 2006.0801_ 4:25  285.67  n/a     .000
07999>                       +    5.0 02:SOUTH-2       11.61      .049 2006.0801_ 3:40  284.41  n/a     .000
08000>                     SUM=   5.0 01:J5           140.66      .526 2006.0801_ 4:20  285.56  n/a     .000
08001> R2006:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08002>      ROUTE CHANNEL   ->    5.0 02:J5           140.66      .526 2006.0801_ 4:20  285.56  n/a     .000
08003> *   [RDT= 5.00]-out<-     5.0 01:R5           140.66      .524 2006.0801_ 4:25  285.56  n/a     .000
08004>       [L/S/n=  181./ .500/.035]
08005>       [Vmax=  .528:Dmax=  .278)
08006> R2006:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08007>      CONTINUOUS NASHYD     5.0 01:SOUTH-3        7.98      .046 2006.0801_ 3:35  285.11 .394     .000
08008>       [CN= 42.6: N= 3.00: Tp=  .89]
08009>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
08010>       [InterEventTime=  12.00]
08011> R2006:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08012>      ADD HYD              5.0 02:R5            140.66      .524 2006.0801_ 4:25  285.56  n/a     .000
08013>                       +    5.0 02:SOUTH-3        7.98      .046 2006.0801_ 3:35  285.11  n/a     .000
08014>                     SUM=   5.0 01:J6           148.64      .552 2006.0801_ 4:25  285.54  n/a     .000
08015> R2006:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08016>      SAVE HYD             5.0 01:J6            148.64      .552 2006.0801_ 4:25  285.54  n/a     .000
08017>       fname :J6.2006
08018>       remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
08019> R2006:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08020>      ROUTE CHANNEL   ->    5.0 02:J6           148.64      .552 2006.0801_ 4:25  285.54  n/a     .000
08021> *   [RDT= 5.00]-out<-     5.0 01:R6           148.64      .548 2006.0801_ 4:30  285.54  n/a     .000
08022>       [L/S/n=  323./ .440/.035]
08023>       [Vmax=  .586:Dmax=  .320)
08024> R2006:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08025>      CONTINUOUS NASHYD     5.0 01:SOUTH-4       14.99      .059 2006.0801_ 3:50  284.68 .394     .000
08026>       [CN= 39.5: N= 3.00: Tp= 1.23]
08027>       [IaREC= 6.00: SMIN=168.62: SMAX=*****: SK= .030]
08028>       [InterEventTime=  12.00]
08029> R2006:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08030>      ADD HYD              5.0 02:R6            148.64      .548 2006.0801_ 4:30  285.54  n/a     .000
08031>                       +    5.0 02:SOUTH-4       14.99      .059 2006.0801_ 3:50  284.68  n/a     .000
08032>                     SUM=   5.0 01:Total         163.63      .597 2006.0801_ 4:30  285.46  n/a     .000
08033> #============================================================================
08034> #============================================================================
08035> ##############################################################################
08036> # CONTINUOUS RAINFALL DATA
08037> ##############################################################################
08038> #*****************************************************************************
08039> # STORMS
08040> #*****************************************************************************
08041>   ** END OF RUN : 2006
08042>
08043> ************************************************************************************************************
08044>
08045>
08046>
08047>
08048>
08049>  RUN#:COMMAND#
08050> R2007:C00001------------------------------------------------------------------------------------------------
08051>      START
08052>       [TZERO =    .00 hrs on 20070401]
08053>       [METOUT=  2   (1=imperial, 2=metric output)]
08054>       [NSTORM=  0 ]
08055>       [NRUN  = 2007 ]
08056> #*****************************************************************************
08057> #  SWMHYMO  / INPUT DATA FILE
08058> #*****************************************************************************
08059> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
08060> #  Date       : 04-28-2021
08061> #  Modeller   : [J.B]
08062> #  Company    : JFSAinc.
08063> #  License #  : 2549237
08064> #*****************************************************************************
08065> #*****************************************************************************
08066> #*****************************************************************************
08067> # Ottawa International Airport - April 1st to October 31st
08068> R2007:C00002------------------------------------------------------------------------------------------------
08069>    *  READ AES DATA
08070>       [FileName  = YOW_1967_2007.123                                    ]
08071>       [Start_date= 2007.0401: End_date= 2007.1031]
08072>       [DT= 60.min: Length= 5136.hrs: WetHrs=  417: DryHrs= 4719: PTOT= 550.70)
08073>       Maximum average rainfall intensities over
08074>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
08075>        23.20    11.60     7.80     7.13     5.63     2.82     1.90     1.45      .97    mm/hr
08076>        23.20    23.20    23.40    42.80    67.50    67.70    68.30    69.80    69.80    mm
08077>       20070829 20070829 20070829 20070720 20070720 20070721 20070720 20070720 20070721  date
08078>       Number of rainfall events per following interevent time
08079>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
08080>          158      120      109       82       64       49       36       29       20
08081>       Number of events with at least the following durations
08082>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
08083>          157       84       53       15        4        0        0        0        0
08084> R2007:C00003------------------------------------------------------------------------------------------------
08085>       COMPUTE APY
08086>       [APIinit= 50.00: APIkdy= .9000: APIkdt= .9956]
08087>       [APImax= 86.91: APIavg= 25.42: APImin=  4.68]
08088> R2007:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08089>      CONTINUOUS NASHYD     5.0 01:NORTH-1       34.70      .141 2007.0720_15:20  170.87 .310     .000
08090>       [CN= 38.1: N= 3.00: Tp= 4.12]
08091>       [IaREC= 6.00: SMIN=168.62: SMAX=*****: SK= .030]
08092>       [InterEventTime=  12.00]
08093> R2007:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08094>      CONTINUOUS NASHYD     5.0 01:NORTH-2       12.44      .103 2007.0720_11:40  171.81 .312     .000
08095>       [CN= 53.0: N= 3.00: Tp= 1.29]
08096>       [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
08097>       [InterEventTime=  12.00]
08098> R2007:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08099>      CONTINUOUS NASHYD     5.0 01:NW-1           2.36      .036 2007.0720_11:25  176.59 .321     .000
08100>       [CN= 81.7: N= 3.00: Tp= 1.21]
08101>       [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
08102>       [InterEventTime=  12.00]
08103> R2007:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08104>      ADD HYD              5.0 02:NORTH-1       34.70      .141 2007.0720_15:20  170.87  n/a     .000
08105>                       +    5.0 02:NORTH-2       12.44      .103 2007.0720_11:40  171.81  n/a     .000
08106>                       +    5.0 02:NW-1           2.36      .036 2007.0720_11:25  176.59  n/a     .000
08107>                     SUM=   5.0 01:J1           49.51      .251 2007.0720_13:45  171.38  n/a     .000
08108> R2007:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08109>      ROUTE CHANNEL   ->    5.0 02:J1           49.51      .251 2007.0720_13:45  171.38  n/a     .000
08110> *   [RDT= 5.00]-out<-     5.0 01:R1           49.51      .251 2007.0720_13:55  171.38  n/a     .000
08111>       [L/S/n=  478./ .440/.035]
08112>       [Vmax=  .507:Dmax=  .245)
08113> R2007:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08114>      CONTINUOUS NASHYD     5.0 01:INT-1          4.39      .041 2007.0720_12:20  172.49 .313     .000
08115>       [CN= 60.4: N= 3.00: Tp= 1.66]
08116>       [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
08117>       [InterEventTime=  12.00]
08118> R2007:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08119>      CONTINUOUS NASHYD     5.0 01:INT-2          3.61      .027 2007.0720_11:30  171.39 .311     .000
08120>       [CN= 47.4: N= 3.00: Tp=  .95]
08121>       [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
08122>       [InterEventTime=  12.00]
08123> R2007:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08124>      CONTINUOUS NASHYD     5.0 01:A3A            3.84      .035 2007.0720_11:50  172.29 .313     .000
08125>       [CN= 58.4: N= 3.00: Tp= 1.46]
08126>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
08127>       [InterEventTime=  12.00]
08128> R2007:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08129>      CONTINUOUS NASHYD     5.0 01:A3B            5.29      .033 2007.0720_11:45  171.09 .311     .000
08130>       [CN= 42.6: N= 3.00: Tp= 1.26]
08131>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
08132>       [InterEventTime=  12.00]
08133> R2007:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08134>      CONTINUOUS NASHYD     5.0 01:A3C            1.21      .007 2007.0720_11:30  170.81 .310     .000
08135>       [CN= 37.8: N= 3.00: Tp=  .87]
08136>       [IaREC= 6.00: SMIN=179.29: SMAX=*****: SK= .030]
08137>       [InterEventTime=  12.00]
08138> R2007:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08139>      ROUTE CHANNEL   ->    5.0 02:A3C            1.21      .007 2007.0720_11:30  170.81  n/a     .000
08140> *   [RDT= 5.00]-out<-     5.0 01:A3C-R          1.21      .006 2007.0720_13:30  170.81  n/a     .000
08141>       [L/S/n=  500./ .140./.035]
08142>       [Vmax=  .106:Dmax=  .053)
08143> R2007:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08144>      CONTINUOUS NASHYD     5.0 01:INT-3          5.71      .057 2007.0720_11:25  172.29 .313     .000
08145>       [CN= 58.5: N= 3.00: Tp=  .89]
08146>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
08147>       [InterEventTime=  12.00]
08148> R2007:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08149>      ADD HYD              5.0 02:R1            49.51      .251 2007.0720_13:55  171.38  n/a     .000
08150>                       +    5.0 02:INT-1          4.39      .041 2007.0720_12:20  172.49  n/a     .000
08151>                       +    5.0 02:INT-2          3.61      .027 2007.0720_11:30  171.39  n/a     .000
08152>                       +    5.0 02:INT-3          5.71      .057 2007.0720_11:25  172.29  n/a     .000
08153>                       +    5.0 02:A3A            3.84      .035 2007.0720_11:50  172.29  n/a     .000
08154>                       +    5.0 02:A3B            5.29      .033 2007.0720_11:45  171.09  n/a     .000
08155>                       +    5.0 02:A3C-R          1.21      .006 2007.0720_13:30  170.81  n/a     .000
08156>                     SUM=   5.0 01:J2            73.56      .433 2007.0720_13:30  171.54  n/a     .000
08157> R2007:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08158>      ROUTE CHANNEL   ->    5.0 02:J2            73.56      .433 2007.0720_13:30  171.54  n/a     .000
08159> *   [RDT= 5.00]-out<-     5.0 01:R2            73.56      .432 2007.0720_13:35  171.54  n/a     .000
08160>       [L/S/n=  359./ .560/.035]
08161>       [Vmax=  .598:Dmax=  .201)
08162> R2007:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08163>      CONTINUOUS NASHYD     5.0 01:A1A           21.43      .104 2007.0720_13:30  170.74 .310     .000
08164>       [CN= 36.1: N= 3.00: Tp= 1.68]
08165>       [IaREC= 6.00: SMIN=191.09: SMAX=*****: SK= .030]
08166>       [InterEventTime=  12.00]
08167> R2007:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08168>      CONTINUOUS NASHYD     5.0 01:A1B            4.70      .029 2007.0720_13:25  171.16 .311     .000
08169>       [CN= 44.6: N= 3.00: Tp= 1.72]
08170>       [IaREC= 6.00: SMIN=134.47: SMAX=896.47: SK= .030]
08171>       [InterEventTime=  12.00]
08172> R2007:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08173>      CONTINUOUS NASHYD     5.0 01:A2             9.14      .109 2007.0720_11:30  173.50 .315     .000
08174>       [CN= 68.4: N= 3.00: Tp= 1.12]
08175>       [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
08176>       [InterEventTime=  12.00]
08177> R2007:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08178>      ADD HYD              5.0 02:R2            73.56      .432 2007.0720_13:35  171.54  n/a     .000
08179>                       +    5.0 02:A1A           21.43      .104 2007.0720_13:30  170.74  n/a     .000
08180>                       +    5.0 02:A1B            4.70      .029 2007.0720_13:25  171.16  n/a     .000
08181>                       +    5.0 02:A2             9.14      .109 2007.0720_11:30  173.50  n/a     .000
08182>                     SUM=   5.0 01:J3           108.84      .658 2007.0720_13:30  171.53  n/a     .000
08183> R2007:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08184>      ROUTE CHANNEL   ->    5.0 02:J3           108.84      .658 2007.0720_13:30  171.53  n/a     .000
08185> *   [RDT= 5.00]-out<-     5.0 01:R3           108.84      .658 2007.0720_13:35  171.53  n/a     .000
08186>       [L/S/n=  396./ .305/.035]
08187>       [Vmax=  .449:Dmax=  .363)
08188> R2007:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08189>      CONTINUOUS NASHYD     5.0 01:SOUTH-1       20.21      .094 2007.0720_13:25  170.67 .310     .000
08190>       [CN= 35.5: N= 3.00: Tp= 1.40]
08191>       [IaREC= 6.00: SMIN=204.20: SMAX=*****: SK= .030]
08192>       [InterEventTime=  12.00]
08193> R2007:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08194>      ADD HYD              5.0 02:R3            108.84      .658 2007.0720_13:35  171.53  n/a     .000
08195>                       +    5.0 02:SOUTH-1       20.21      .094 2007.0720_13:25  170.67  n/a     .000
08196>                     SUM=   5.0 01:J4           129.05      .751 2007.0720_13:35  171.39  n/a     .000
08197> R2007:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08198>      ROUTE CHANNEL   ->    5.0 02:J4           129.05      .751 2007.0720_13:35  171.39  n/a     .000
08199> *   [RDT= 5.00]-out<-     5.0 01:R4           129.05      .751 2007.0720_13:40  171.39  n/a     .000
08200>       [L/S/n=  482./ .410/.035]
08201>       [Vmax=  .603:Dmax=  .363)
08202> R2007:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08203>      CONTINUOUS NASHYD     5.0 01:SOUTH-2       11.61      .060 2007.0720_11:30  170.74 .310     .000
08204>       [CN= 36.7: N= 3.00: Tp=  .96]
08205>       [IaREC= 6.00: SMIN=191.09: SMAX=*****: SK= .030]
08206>       [InterEventTime=  12.00]
08207> R2007:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08208>      ADD HYD              5.0 02:R4            129.05      .751 2007.0720_13:40  171.39  n/a     .000
08209>                       +    5.0 02:SOUTH-2       11.61      .060 2007.0720_11:30  170.74  n/a     .000
08210>                     SUM=   5.0 01:J5           140.66      .807 2007.0720_13:35  171.34  n/a     .000
08211> R2007:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08212>      ROUTE CHANNEL   ->    5.0 02:J5           140.66      .807 2007.0720_13:35  171.34  n/a     .000
08213> *   [RDT= 5.00]-out<-     5.0 01:R5           140.66      .807 2007.0720_13:35  171.34  n/a     .000
08214>       [L/S/n=  181./ .500/.035]
08215>       [Vmax=  .596:Dmax=  .329)
08216> R2007:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08217>      CONTINUOUS NASHYD     5.0 01:SOUTH-3        7.98      .052 2007.0720_11:30  171.09 .311     .000
08218>       [CN= 42.6: N= 3.00: Tp=  .89]
08219>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
08220>       [InterEventTime=  12.00]
08221> R2007:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08222>      ADD HYD              5.0 02:R5            140.66      .807 2007.0720_13:35  171.34  n/a     .000
08223>                       +    5.0 02:SOUTH-3        7.98      .052 2007.0720_11:30  171.09  n/a     .000
08224>                     SUM=   5.0 01:J6           148.64      .854 2007.0720_13:30  171.33  n/a     .000
08225> R2007:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08226>      SAVE HYD             5.0 01:J6            148.64      .854 2007.0720_13:30  171.33  n/a     .000
08227>       fname :J6.2007
08228>       remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
08229> R2007:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08230>      ROUTE CHANNEL   ->    5.0 02:J6           148.64      .854 2007.0720_13:30  171.33  n/a     .000
08231> *   [RDT= 5.00]-out<-     5.0 01:R6           148.64      .853 2007.0720_13:35  171.33  n/a     .000
08232>       [L/S/n=  323./ .440/.035]
08233>       [Vmax=  .637:Dmax=  .377)
08234> R2007:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08235>      CONTINUOUS NASHYD     5.0 01:SOUTH-4       14.99      .082 2007.0720_11:45  170.87 .310     .000
08236>       [CN= 39.5: N= 3.00: Tp= 1.23]
08237>       [IaREC= 6.00: SMIN=168.62: SMAX=*****: SK= .030]
08238>       [InterEventTime=  12.00]
08239> R2007:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08240>      ADD HYD              5.0 02:R6            148.64      .853 2007.0720_13:35  171.33  n/a     .000
08241>                       +    5.0 02:SOUTH-4       14.99      .082 2007.0720_11:45  170.87  n/a     .000
08242>                     SUM=   5.0 01:Total         163.63      .933 2007.0720_13:30  171.29  n/a     .000
08243> #============================================================================
08244> #============================================================================
08245> ##############################################################################
08246> # CONTINUOUS RAINFALL DATA
08247> ##############################################################################
08248> #*****************************************************************************
08249> # STORMS
08250> #*****************************************************************************
08251> R2007:C00002------------------------------------------------------------------------------------------------
08252>      FINISH
08253> ------------------------------------------------------------------------------------------------
08254> ************************************************************************************************************
08255>       WARNINGS / ERRORS / NOTES
08256>       -------------------------
08257> R1967:C00002  READ AES DATA
08258> *** WARNING: Requested start date is less than start date in file.
08259> *** WARNING: Missing rainfall increments were set to 0.
08260> *** WARNING: Missing rainfall increments were set to 0.
08261> *** WARNING: Missing rainfall increments were set to 0.
08262> *** WARNING: Requested start date is less than start date in file.
08263> *** WARNING: Missing rainfall increments were set to 0.
08264> *** WARNING: Missing rainfall increments were set to 0.
08265> *** WARNING: Missing rainfall increments were set to 0.
08266> *** WARNING: Missing rainfall increments were set to 0.
08267> *** WARNING: Missing rainfall increments were set to 0.
08268> *** WARNING: Missing rainfall increments were set to 0.
08269> *** WARNING: Missing rainfall increments were set to 0.
08270> *** WARNING: Requested start date is less than start date in file.
08271> *** WARNING: Missing rainfall increments were set to 0.
08272> *** WARNING: Missing rainfall increments were set to 0.
08273> *** WARNING: Missing rainfall increments were set to 0.
08274> *** WARNING: Missing rainfall increments were set to 0.
08275> *** WARNING: Missing rainfall increments were set to 0.
08276> *** WARNING: Missing rainfall increments were set to 0.
08277> *** WARNING: Missing rainfall increments were set to 0.
08278> *** WARNING: Missing rainfall increments were set to 0.
08279> *** WARNING: Missing rainfall increments were set to 0.
08280> *** WARNING: Missing rainfall increments were set to 0.
```

```
08281> *** WARNING: Requested start date is less than start date in file.
08282> *** WARNING: Missing rainfall increments were set to 0.
08283> *** WARNING: Missing rainfall increments were set to 0.
08284> *** WARNING: Requested start date is less than start date in file.
08285> *** WARNING: Missing rainfall increments were set to 0.
08286> *** WARNING: Requested start date is less than start date in file.
08287> *** WARNING: Missing rainfall increments were set to 0.
08288> *** WARNING: Missing rainfall increments were set to 0.
08289> *** WARNING: Requested start date is less than start date in file.
08290> *** WARNING: Missing rainfall increments were set to 0.
08291> *** WARNING: Requested start date is less than start date in file.
08292> *** WARNING: Missing rainfall increments were set to 0.
08293> *** WARNING: Requested start date is less than start date in file.
08294> *** WARNING: Missing rainfall increments were set to 0.
08295> *** WARNING: Requested start date is less than start date in file.
08296> *** WARNING: Missing rainfall increments were set to 0.
08297> *** WARNING: Missing rainfall increments were set to 0.
08298>    Simulation ended on 2024-07-31     at 16:08:34
08299> ============================================================================================
08300>
```

```
20    Metric units / ID numbers OFF
*#*************************************************************************
*#  SWMHYMO  / INPUT DATA FILE
*#*************************************************************************
*#  Project Name: [THUNDER ROAD]    Project Number: [2128]
*#  Date        : 04-28-2021
*#  Modeller    : [J.B]
*#  Company     : JFSAinc.
*#  License #   :  2549237
*#*************************************************************************
* Model Developed to assess the post development erosion/hydrologic conditions on the
Bear Brook
* tributary near 6150 Thunder Road
*#*************************************************************************
*#*************************************************************************
START                TZERO=[1967.0101],  METOUT=[2],  NSTORM=[0],  NRUN=[1967]
*%                    [""] <--storm filename, one per line for NSTORM time
*%-----------------|-------------------------------------------------------|
*# Ottawa International Airport - April 1st to October 31st
READ AES DATA        AES_FILENAME=["YOW_1967_2007.123"],
                     IELEM=[123], START_DATE=[0], END_DATE=[-213]
*%-----------------|-------------------------------------------------------|
COMPUTE API          APII=[50], APIK=[0.90]/day
*%-----------------|-------------------------------------------------------|
* DRAINAGE AREAS NORTH OF HIGHWAY
*%-----------------|-------------------------------------------------------|
CONTINUOUS NASHYD    NHYD=["NORTH-1"], DT=[5](min), AREA=[34.701](ha),
                     DWF=[0](cms), CN/C=[38.1], IA=[4.67](mm), N=[3], TP=[4.12](hrs),
                     Continuous simulation parameters:
                     IaRECper=[6](hrs),
                     SMIN=[-1](mm),  SMAX=[-1](mm), SK=[0.03]/(mm),
                     InterEventTime=[12](hrs),
                     Baseflow simulation parameters:
                     BaseFlowOption=[1] , InitGWResVol=[12](mm), GWResK=[0.95](mm/day/mm),
                     VHydCond=[.02](mm/hr), END=-1
*%-----------------|-------------------------------------------------------|
CONTINUOUS NASHYD    NHYD=["NORTH-2"], DT=[5](min), AREA=[12.444](ha),
                     DWF=[0](cms), CN/C=[53.0], IA=[4.67](mm), N=[3], TP=[1.29](hrs),
                     Continuous simulation parameters:
                     IaRECper=[6](hrs),
                     SMIN=[-1](mm),  SMAX=[-1](mm), SK=[0.03]/(mm),
                     InterEventTime=[12](hrs),
                     Baseflow simulation parameters:
                     BaseFlowOption=[1] , InitGWResVol=[12](mm), GWResK=[0.95](mm/day/mm),
                     VHydCond=[.02](mm/hr), END=-1
*%-----------------|-------------------------------------------------------|
CONTINUOUS NASHYD    NHYD=["HWY-1"], DT=[5](min), AREA=[2.364](ha),
                     DWF=[0](cms), CN/C=[81.7], IA=[4.67](mm), N=[3], TP=[1.21 ](hrs),
                     Continuous simulation parameters:
                     IaRECper=[6](hrs),
                     SMIN=[-1](mm),  SMAX=[-1](mm), SK=[0.03]/(mm),
                     InterEventTime=[12](hrs),
                     Baseflow simulation parameters:
                     BaseFlowOption=[1] , InitGWResVol=[12](mm), GWResK=[0.95](mm/day/mm),
                     VHydCond=[.02](mm/hr), END=-1
*%-----------------|-------------------------------------------------------|
*ADD AREAS UPSTREAM OF HIGHWAY
ADD HYD              NHYDsum=["J1"], NHYDs to add=["NORTH-1"+"NORTH-2"+"HWY-1"]
*%-----------------|-------------------------------------------------------|
* ROUTE UPSTREM FLOWS TO THUNDER ROAD
ROUTE CHANNEL        NHYDout=["R1"], NHYDin=["J1"],  RDT=[5](min),
                     CHLGTH=[ 478 ](m),  CHSLOPE=[0.44](%), FPSLOPE=[0.44](%),
                     SECNUM=[ 1 ],       NSEG=[ 3 ]
                     ( SEGROUGH, SEGDIST (m))=[0.05, 2.49, -0.035, 8.73, 0.05, 26.18] NSEG
                      times
                     ( DISTANCE (m), ELEVATION (m))=[0,76.83]
                                                    [1.25,76.8]
                                                    [2.49,76.64]
                                                    [3.74,76.45]
```

```
                                                                [4.99,76.22]
                                                                [6.23,76.3]
                                                                [7.48,76.52]
                                                                [8.73,76.58]
                                                                [9.97,76.61]
                                                                [22.44,76.62]
                                                                [23.69,76.7]
                                                                [24.93,76.75]
                                                                [26.18,76.85]
*%-----------------|-------------------------------------------------------------|
* DRAINAGE AREAS AROUND HIGHWAY INTERCHANGE
*%-----------------|-------------------------------------------------------------|
CONTINUOUS NASHYD   NHYD=["INT-1"], DT=[5](min), AREA=[4.388](ha),
                    DWF=[0](cms), CN/C=[60.4 ], IA=[4.67](mm), N=[3], TP=[1.66 ](hrs),
                    Continuous simulation parameters:
                    IaRECper=[6](hrs),
                    SMIN=[-1](mm),  SMAX=[-1](mm), SK=[0.03]/(mm),
                    InterEventTime=[12](hrs),
                    Baseflow simulation parameters:
                    BaseFlowOption=[1] , InitGWResVol=[12](mm), GWResK=[0.95](mm/day/mm),
                    VHydCond=[.02](mm/hr), END=-1
*%-----------------|-------------------------------------------------------------|
CONTINUOUS NASHYD   NHYD=["INT-2"], DT=[5](min), AREA=[3.61](ha),
                    DWF=[0](cms), CN/C=[47.4 ], IA=[4.67](mm), N=[3], TP=[0.95 ](hrs),
                    Continuous simulation parameters:
                    IaRECper=[6](hrs),
                    SMIN=[-1](mm),  SMAX=[-1](mm), SK=[0.03]/(mm),
                    InterEventTime=[12](hrs),
                    Baseflow simulation parameters:
                    BaseFlowOption=[1] , InitGWResVol=[12](mm), GWResK=[0.95](mm/day/mm),
                    VHydCond=[.02](mm/hr), END=-1
*%-----------------|-------------------------------------------------------------|
CONTINUOUS NASHYD   NHYD=["A3A"], DT=[5](min), AREA=[3.84](ha),
                    DWF=[0](cms), CN/C=[58.4 ], IA=[4.67](mm), N=[3], TP=[1.46 ](hrs),
                    Continuous simulation parameters:
                    IaRECper=[6](hrs),
                    SMIN=[-1](mm),  SMAX=[-1](mm), SK=[0.03]/(mm),
                    InterEventTime=[12](hrs),
                    Baseflow simulation parameters:
                    BaseFlowOption=[1] , InitGWResVol=[12](mm), GWResK=[0.95](mm/day/mm),
                    VHydCond=[.02](mm/hr), END=-1
*%-----------------|-------------------------------------------------------------|
*Lumped subcatchment with parameters calibrated to match detailed PCSWMM model
CONTINUOUS STANDHYD NHYD=["Pond3-In"], DT=[5](min), AREA=[1.205](ha), XIMP=[0.64],
TIMP=[0.75], DWF=[0](cms),
                    LOSS=[1], Horton: Fo=[76.20](mm/hr), Fc=[13.20](mm/hr),
                    DCAY=[4.14](/hr), F=[12](mm),
                    Pervious   areas: IAper=[4.67](mm), SLPP=[2.5](%), LGP=[100](m),
                    MNP=[0.25], SCP=[0](min),
                    Impervious areas: IAimp=[1.57](mm), SLPI=[2.5](%), LGI={50](m),
                    MNI=[0.013], SCI=[0](min),
                    Continuous simulation parameters:
                    IaRECper=[12](hrs),  IaRECimp=[12](hrs),
                    SMIN=[-1](mm),  SMAX=[-1](mm), SK=[0.01]/(mm),
                    InterEventTime=[24](hrs), END=-1
*%-----------------|-------------------------------------------------------------|
*SWM Pond Outflow Storage Curve
ROUTE RESERVOIR     NHYDout=["Pond3-Out"], NHYDin=["Pond3-In"], RDT=[5](min),
                          TABLE of ( OUTFLOW-STORAGE ) values
                ---->---->---->---->---->   (cms) - (ha-m)
                                            [ 0,0]
                                            [ 0.0001,0.0078]
                                            [ 0.0002,0.0088]
                                            [ 0.0004,0.0098]
                                            [ 0.0008,0.0108]
                                            [ 0.0012,0.0119]
                                            [ 0.0017,0.013]
                                            [ 0.0021,0.0141]
                                            [ 0.0024,0.0152]
```

```
                                        [ 0.0026,0.0164]
                                        [ 0.0028,0.0176]
                                        [ 0.0029,0.0405]
                                        [ 0.0030,0.042]
                                        [ 0.0031,0.0451]
                                        [ 0.0035,0.0576]
                                        [ 0.0039,0.0703]
                                        [ 0.0043,0.0832]
                                        [ 0.0044,0.0893]
                                        [ 0.1091,0.097]
                                        [ 0.4887,0.1104]
                                        [ 1.018,0.1239]
                                        [ 1.6597,0.1377]
                                    NHYDovf=["Pond3-Over"],
*%-----------------|-------------------------------------------------------------|
ADD HYD             NHYDsum=["Pond3-Ditch"]NHYDs to add=["Pond3-Over"+"Pond3-Out"]
*%-----------------|-------------------------------------------------------------|
*Route runoff from north site lands through road side ditch (500m @ 0.14%)
ROUTE CHANNEL       NHYDout=["A3C-R"], NHYDin=["Pond3-Out"],  RDT=[5](min),
                    CHLGTH=[ 500 ](m),  CHSLOPE=[0.14](%), FPSLOPE=[0.14](%),
                    SECNUM=[ 1 ],       NSEG=[ 3 ]
                    ( SEGROUGH, SEGDIST (m))=[0.05, 2.95, -0.035, 7.38, 0.05, 10.33] NSEG
                     times
                    ( DISTANCE (m), ELEVATION (m))= [0.00, 76.58]
                                                    [1.48, 76.57]
                                                    [2.95, 76.49]
                                                    [4.43, 76.15]
                                                    [5.90, 76.11]
                                                    [7.38, 76.58]
                                                    [8.85, 76.95]
                                                    [10.33, 77.20]
                                                    [-1,-1]
*%-----------------|-------------------------------------------------------------|
CONTINUOUS NASHYD   NHYD=["INT-3"], DT=[5](min), AREA=[5.712](ha),
                    DWF=[0](cms), CN/C=[58.5 ], IA=[4.67](mm), N=[3], TP=[0.89 ](hrs),
                    Continuous simulation parameters:
                    IaRECper=[6](hrs),
                    SMIN=[-1](mm),  SMAX=[-1](mm), SK=[0.03]/(mm),
                    InterEventTime=[12](hrs),
                    Baseflow simulation parameters:
                    BaseFlowOption=[1] , InitGWResVol=[12](mm), GWResK=[0.95](mm/day/mm),
                    VHydCond=[.02](mm/hr), END=-1
*%-----------------|-------------------------------------------------------------|
ADD HYD             NHYDsum=["J2"], NHYDs to
add=["R1"+"INT-1"+"INT-2"+"INT-3"+"A3A"+"A3C-R"]
*%-----------------|-------------------------------------------------------------|
ROUTE CHANNEL       NHYDout=["R2"], NHYDin=["J2"],  RDT=[5](min),
                    CHLGTH=[ 359 ](m),  CHSLOPE=[0.56](%), FPSLOPE=[0.56](%),
                    SECNUM=[ 1 ],       NSEG=[ 3 ]
                    ( SEGROUGH, SEGDIST (m))=[0.05, 15.18, -0.035, 25.29, 0.05, 30.35]
                    NSEG times
                    ( DISTANCE (m), ELEVATION (m))=[0,77.2]
                                                  [1.26,77.14]
                                                  [2.53,77.09]
                                                  [6.32,77.02]
                                                  [7.59,77.01]
                                                  [8.85,76.99]
                                                  [11.38,76.96]
                                                  [13.91,76.92]
                                                  [15.18,76.86]
                                                  [16.44,76.63]
                                                  [17.71,76.28]
                                                  [18.97,76.24]
                                                  [20.23,76.23]
                                                  [21.5,76.33]
                                                  [22.76,76.62]
                                                  [24.03,76.73]
                                                  [25.29,76.8]
                                                  [27.82,76.8]
```

```
                                                                [29.09,76.81]
                                                                [30.35,77]
                                                                [-1,-1]
*%-----------------|---------------------------------------------------------------|
* DRAINAGE AREAS DOPWNSTREAM OF THUNDERROAD
*%-----------------|---------------------------------------------------------------|
CONTINUOUS NASHYD   NHYD=["A1A"], DT=[5](min), AREA=[21.435](ha),
                    DWF=[0](cms), CN/C=[36.1 ], IA=[4.67](mm), N=[3], TP=[1.68](hrs),
                    Continuous simulation parameters:
                    IaRECper=[6](hrs),
                    SMIN=[-1](mm),  SMAX=[-1](mm), SK=[0.03]/(mm),
                    InterEventTime=[12](hrs),
                    Baseflow simulation parameters:
                    BaseFlowOption=[1] , InitGWResVol=[12](mm), GWResK=[0.95](mm/day/mm),
                    VHydCond=[.02](mm/hr), END=-1
*%-----------------|---------------------------------------------------------------|
*Lumped subcatchment with parameters calibrated to match detailed PCSWMM model
CONTINUOUS STANDHYD NHYD=["Pond1-In"], DT=[5](min), AREA=[9.998](ha), XIMP=[0.38],
TIMP=[0.74], DWF=[0](cms),
                    LOSS=[1], Horton: Fo=[76.20](mm/hr), Fc=[13.20](mm/hr),
                    DCAY=[4.14](/hr), F=[12](mm),
                    Pervious   areas: IAper=[4.67](mm), SLPP=[2.0](%), LGP=[500](m),
                    MNP=[0.25], SCP=[0](min),
                    Impervious areas: IAimp=[1.57](mm), SLPI=[1.5](%), LGI=[250](m),
                    MNI=[0.013], SCI=[0](min),
                    Continuous simulation parameters:
                    IaRECper=[12]hrs),  IaRECimp=[12](hrs),
                    SMIN=[-1](mm),  SMAX=[-1](mm), SK=[0.01]/(mm),
                    InterEventTime=[24](hrs), END=-1
*%-----------------|---------------------------------------------------------------|
*SWM Pond Outflow Storage Curve
ROUTE RESERVOIR     NHYDout=["Pond1-Out"], NHYDin=["Pond1-In"], RDT=[5](min),
                         TABLE of ( OUTFLOW-STORAGE ) values
                                  (cms) - (ha-m)
                                  [ 0 , 0 ]
                                  [ 0.0096 , 0.001 ]
                                  [ 0.0115 , 0.002 ]
                                  [ 0.0131 , 0.003 ]
                                  [ 0.0136 , 0.004 ]
                                  [ 0.0141 , 0.005 ]
                                  [ 0.0146 , 0.006 ]
                                  [ 0.015 , 0.008 ]
                                  [ 0.0155 , 0.009 ]
                                  [ 0.0159 , 0.011 ]
                                  [ 0.0163 , 0.013 ]
                                  [ 0.0167 , 0.015 ]
                                  [ 0.0171 , 0.017 ]
                                  [ 0.0175 , 0.02 ]
                                  [ 0.0179 , 0.022 ]
                                  [ 0.0182 , 0.025 ]
                                  [ 0.0186 , 0.028 ]
                                  [ 0.0189 , 0.031 ]
                                  [ 0.0193 , 0.033 ]
                                  [ 0.0196 , 0.036 ]
                                  [ 0.02 , 0.039 ]
                                  [ 0.0203 , 0.042 ]
                                  [ 0.0206 , 0.046 ]
                                  [ 0.0209 , 0.049 ]
                                  [ 0.0213 , 0.052 ]
                                  [ 0.0216 , 0.056 ]
                                  [ 0.0219 , 0.059 ]
                                  [ 0.0222 , 0.063 ]
                                  [ 0.0225 , 0.067 ]
                                  [ 0.0228 , 0.071 ]
                                  [ 0.0231 , 0.076 ]
                                  [ 0.0233 , 0.08 ]
                                  [ 0.0236 , 0.085 ]
                                  [ 0.0239 , 0.09 ]
                                  [ 0.0242 , 0.095 ]
```

```
                                        [ 0.0245 , 0.1 ]
                                        [ 0.0247 , 0.106 ]
                                        [ 0.025 , 0.111 ]
                                        [ 0.0253 , 0.117 ]
                                        [ 0.0255 , 0.122 ]
                                        [ 0.0258 , 0.128 ]
                                        [ 0.026 , 0.133 ]
                                        [ 0.0263 , 0.139 ]
                                        [ 0.0265 , 0.144 ]
                                        [ 0.0268 , 0.15 ]
                                        [ 0.027 , 0.156 ]
                                        [ 0.0273 , 0.162 ]
                                        [ 0.0275 , 0.168 ]
                                        [ 0.0278 , 0.174 ]
                                        [ 0.028 , 0.18 ]
                                        [ 0.0282 , 0.187 ]
                                        [ 0.0285 , 0.193 ]
                                        [ 0.0287 , 0.2 ]
                                        [ 0.0289 , 0.208 ]
                                        [ 0.0292 , 0.215 ]
                                        [ 0.0294 , 0.223 ]
                                        [ 0.0296 , 0.23 ]
                                        [ 0.0298 , 0.238 ]
                                        [ 0.0301 , 0.247 ]
                                        [ 0.0303 , 0.255 ]
                                        [ 0.0305 , 0.264 ]
                                        [ 0.0307 , 0.273 ]
                                        [ 0.0309 , 0.282 ]
                                        [ 0.0311 , 0.291 ]
                                        [ 0.0314 , 0.301 ]
                                        [ 0.0316 , 0.311 ]
                                        [ 0.0318 , 0.321 ]
                                        [ 0.032 , 0.331 ]
                                        [ 0.0322 , 0.341 ]
                                        [ 0.0324 , 0.352 ]
                                        [ 0.0326 , 0.362 ]
                                        [ 0.0328 , 0.373 ]
                                        [ 0.033 , 0.384 ]
                                        [ 0.0332 , 0.394 ]
                                        [ 0.0334 , 0.405 ]
                                        [ 0.0336 , 0.416 ]
                                        [ 0.0338 , 0.427 ]
                                        [ 0.034 , 0.438 ]
                                        [ 0.0342 , 0.448 ]
                                        [ 0.0344 , 0.459 ]
                                        [ 0.0346 , 0.47 ]
                                        [ 0.0348 , 0.481 ]
                                        [ 0.035 , 0.493 ]
                                        [ 0.0352 , 0.504 ]
                                        [ 0.0353 , 0.515 ]
                                        [ 0.0355 , 0.526 ]
                                        [ 0.0357 , 0.538 ]
                                        [ 0.0359 , 0.549 ]
                                        [ 0.0361 , 0.56 ]
                                        [ 0.0363 , 0.572 ]
                                        [ 0.0365 , 0.583 ]
                                        [ 0.0366 , 0.595 ]
                                        [ 0.0368 , 0.606 ]
                                        [ 0.037 , 0.618 ]
                                        [ 0.0372 , 0.63 ]
                                        [ 0.0374 , 0.641 ]
                                        [ 0.0375 , 0.653 ]
                                        [ 0.0377 , 0.665 ]
                                        [ 0.0379 , 0.677 ]
                                    NHYDovf=["Pond1-Over"],
*%------------------|-------------------------------------------------------------|
CONTINUOUS NASHYD   NHYD=["A2"], DT=[5](min), AREA=[9.144](ha),
                    DWF=[0](cms), CN/C=[68.4 ], IA=[4.67](mm), N=[3], TP=[1.12 ](hrs),
                    Continuous simulation parameters:
```

```
                    IaRECper=[6](hrs),
                    SMIN=[-1](mm),  SMAX=[-1](mm), SK=[0.03]/(mm),
                    InterEventTime=[12](hrs),
                    Baseflow simulation parameters:
                    BaseFlowOption=[1] , InitGWResVol=[12](mm), GWResK=[0.95](mm/day/mm),
                    VHydCond=[.02](mm/hr), END=-1
*%-----------------|-------------------------------------------------------------|
ADD HYD             NHYDsum=["J3"], NHYDs to
add=["R2"+"A1A"+"A2"+"Pond1-Over"+"Pond1-Out"]
*%-----------------|-------------------------------------------------------------|
ROUTE CHANNEL       NHYDout=["R3"], NHYDin=["J3"],  RDT=[5](min),
                    CHLGTH=[ 396 ](m),  CHSLOPE=[0.305](%), FPSLOPE=[0.305](%),
                    SECNUM=[ 1 ],       NSEG=[ 3 ]
                    ( SEGROUGH, SEGDIST (m))=[0.05, 20.3, -0.035, 25.43, 0.05, 43.65]
                    NSEG times
                    ( DISTANCE (m), ELEVATION (m))=[0,75.94]
                                                   [5.08,75.73]
                                                   [10.15,75.63]
                                                   [15.23,75.56]
                                                   [20.3,75.36]
                                                   [21.32,75.15]
                                                   [22.33,75.04]
                                                   [23.35,74.98]
                                                   [24.36,75.13]
                                                   [25.38,75.21]
                                                   [30.45,75.36]
                                                   [35.53,75.5]
                                                   [40.61,75.85]
                                                   [43.65,76.04]
                                                   [-1,-1]
*%-----------------|-------------------------------------------------------------|
CONTINUOUS NASHYD   NHYD=["SOUTH-1"], DT=[5](min), AREA=[20.21](ha),
                    DWF=[0](cms), CN/C=[35.5 ], IA=[4.67](mm), N=[3], TP=[1.4 ](hrs),
                    Continuous simulation parameters:
                    IaRECper=[6](hrs),
                    SMIN=[-1](mm),  SMAX=[-1](mm), SK=[0.03]/(mm),
                    InterEventTime=[12](hrs),
                    Baseflow simulation parameters:
                    BaseFlowOption=[1] , InitGWResVol=[12](mm), GWResK=[0.95](mm/day/mm),
                    VHydCond=[.02](mm/hr), END=-1
*%-----------------|-------------------------------------------------------------|
ADD HYD             NHYDsum=["J4"], NHYDs to add=["R3"+"SOUTH-1"]
*%-----------------|-------------------------------------------------------------|
ROUTE CHANNEL       NHYDout=["R4"], NHYDin=["J4"],  RDT=[5](min),
                    CHLGTH=[ 482 ](m),  CHSLOPE=[0.41](%), FPSLOPE=[0.41](%),
                    SECNUM=[ 1 ],       NSEG=[ 3 ]
                    ( SEGROUGH, SEGDIST (m))=[0.05, 20.48, -0.035, 24.1, 0.05, 40.97]
                    NSEG times
                    ( DISTANCE (m), ELEVATION (m))=[0.00, 75.19]
                                                   [4.82, 75.02]
                                                   [10.84, 74.46]
                                                   [20.48, 73.88]
                                                   [21.69, 73.71]
                                                   [22.89, 73.79]
                                                   [24.1, 74.07]
                                                   [25.3, 74.18]
                                                   [30.12, 74.6]
                                                   [34.94, 74.69]
                                                   [40.97,75.14]
                                                   [-1,-1]
*%-----------------|-------------------------------------------------------------|
CONTINUOUS NASHYD   NHYD=["SOUTH-2"], DT=[5](min), AREA=[11.612](ha),
                    DWF=[0](cms), CN/C=[36.7 ], IA=[4.67](mm), N=[3], TP=[0.96 ](hrs),
                    Continuous simulation parameters:
                    IaRECper=[6](hrs),
                    SMIN=[-1](mm),  SMAX=[-1](mm), SK=[0.03]/(mm),
                    InterEventTime=[12](hrs),
                    Baseflow simulation parameters:
                    BaseFlowOption=[1] , InitGWResVol=[12](mm), GWResK=[0.95](mm/day/mm),
```

```
                    VHydCond=[.02](mm/hr), END=-1
*%-----------------|-------------------------------------------------------------|
ADD HYD             NHYDsum=["J5"], NHYDs to add=["R4"+"SOUTH-2"]
*%-----------------|-------------------------------------------------------------|
ROUTE CHANNEL       NHYDout=["R5"], NHYDin=["J5"],  RDT=[5](min),
                    CHLGTH=[181](m),  CHSLOPE=[0.5](%), FPSLOPE=[0.5](%),
                    SECNUM=[ 1 ],       NSEG=[ 3 ]
                    ( SEGROUGH, SEGDIST (m))=[0.05, 42.50, -0.035, 47.69, 0.05, 65.31]
                    NSEG times
                    ( DISTANCE (m), ELEVATION (m))=[0.000, 75.10]
                                                   [10.37, 74.34]
                                                   [20.73, 73.72]
                                                   [30.06, 73.11]
                                                   [42.50, 72.86]
                                                   [45.61, 72.59]
                                                   [47.69, 72.82]
                                                   [60.13, 73.68]
                                                   [65.31, 74.98]
                                                   [-1,-1]
*%-----------------|-------------------------------------------------------------|
CONTINUOUS NASHYD   NHYD=["SOUTH-3"], DT=[5](min), AREA=[7.982](ha),
                    DWF=[0](cms), CN/C=[42.6 ], IA=[4.67](mm), N=[3], TP=[0.89 ](hrs),
                    Continuous simulation parameters:
                    IaRECper=[6](hrs),
                    SMIN=[-1](mm),  SMAX=[-1](mm), SK=[0.03]/(mm),
                    InterEventTime=[12](hrs),
                    Baseflow simulation parameters:
                    BaseFlowOption=[1] , InitGWResVol=[12](mm), GWResK=[0.95](mm/day/mm),
                    VHydCond=[.02](mm/hr), END=-1
*%-----------------|-------------------------------------------------------------|
ADD HYD             NHYDsum=["J6"], NHYDs to add=["R5"+"SOUTH-3"]
*%-----------------|-------------------------------------------------------------|
SAVE HYD            NHYD=["J6"],  # OF PCYCLES=[-1],  ICASEsh=[1]
                    HYD_COMMENT=["J6-Bearbrook Tributary Upstream of Thunder Road
                    Crossing"]
*%-----------------|-------------------------------------------------------------|
ROUTE CHANNEL       NHYDout=["R6"], NHYDin=["J6"],  RDT=[5](min),
                    CHLGTH=[ 323 ](m),  CHSLOPE=[0.44](%), FPSLOPE=[0.44](%),
                    SECNUM=[ 1 ],       NSEG=[ 3 ]
                    ( SEGROUGH, SEGDIST (m))=[0.05, 20.48, -0.035, 24.1, 0.05, 40.97]
                    NSEG times
                    ( DISTANCE (m), ELEVATION (m))=[0,75.19]
                                                   [4.82,75.02]
                                                   [10.84,74.46]
                                                   [20.48,73.88]
                                                   [21.69,73.71]
                                                   [22.89,73.79]
                                                   [24.1,74.07]
                                                   [25.3,74.18]
                                                   [30.12,74.6]
                                                   [34.94,74.69]
                                                   [40.97,75.14]
                                                   [-1,-1]
*%-----------------|-------------------------------------------------------------|
CONTINUOUS NASHYD   NHYD=["SOUTH-4"], DT=[5](min), AREA=[14.985](ha),
                    DWF=[0](cms), CN/C=[39.5 ], IA=[4.67](mm), N=[3], TP=[1.23 ](hrs),
                    Continuous simulation parameters:
                    IaRECper=[6](hrs),
                    SMIN=[-1](mm),  SMAX=[-1](mm), SK=[0.03]/(mm),
                    InterEventTime=[12](hrs),
                    Baseflow simulation parameters:
                    BaseFlowOption=[1] , InitGWResVol=[12](mm), GWResK=[0.95](mm/day/mm),
                    VHydCond=[.02](mm/hr), END=-1
*%-----------------|-------------------------------------------------------------|
ADD HYD             NHYDsum=["Total"], NHYDs to add=["R6"+"SOUTH-4"]
*%-----------------|-------------------------------------------------------------|
*#=============================================================================
*                           DESIGN STORMS
*#=============================================================================
```

```
*#############################################################################
*# CONTINUOUS RAINFALL DATA
*#############################################################################
*#############################################################################
*# STORMS
*#############################################################################
START                TZERO=[1968.0401],  METOUT=[2],  NSTORM=[0],  NRUN=[1968]
*%-----------------|-------------------------------------------------------|
START                TZERO=[1969.0401],  METOUT=[2],  NSTORM=[0],  NRUN=[1969]
*%-----------------|-------------------------------------------------------|
START                TZERO=[1970.0401],  METOUT=[2],  NSTORM=[0],  NRUN=[1970]
*%-----------------|-------------------------------------------------------|
START                TZERO=[1971.0401],  METOUT=[2],  NSTORM=[0],  NRUN=[1971]
*%-----------------|-------------------------------------------------------|
START                TZERO=[1972.0401],  METOUT=[2],  NSTORM=[0],  NRUN=[1972]
*%-----------------|-------------------------------------------------------|
START                TZERO=[1973.0401],  METOUT=[2],  NSTORM=[0],  NRUN=[1973]
*%-----------------|-------------------------------------------------------|
START                TZERO=[1974.0401],  METOUT=[2],  NSTORM=[0],  NRUN=[1974]
*%-----------------|-------------------------------------------------------|
START                TZERO=[1975.0401],  METOUT=[2],  NSTORM=[0],  NRUN=[1975]
*%-----------------|-------------------------------------------------------|
START                TZERO=[1976.0401],  METOUT=[2],  NSTORM=[0],  NRUN=[1976]
*%-----------------|-------------------------------------------------------|
START                TZERO=[1977.0401],  METOUT=[2],  NSTORM=[0],  NRUN=[1977]
*%-----------------|-------------------------------------------------------|
START                TZERO=[1978.0401],  METOUT=[2],  NSTORM=[0],  NRUN=[1978]
*%-----------------|-------------------------------------------------------|
START                TZERO=[1979.0401],  METOUT=[2],  NSTORM=[0],  NRUN=[1979]
*%-----------------|-------------------------------------------------------|
START                TZERO=[1980.0401],  METOUT=[2],  NSTORM=[0],  NRUN=[1980]
*%-----------------|-------------------------------------------------------|
START                TZERO=[1981.0401],  METOUT=[2],  NSTORM=[0],  NRUN=[1981]
*%-----------------|-------------------------------------------------------|
START                TZERO=[1982.0401],  METOUT=[2],  NSTORM=[0],  NRUN=[1982]
*%-----------------|-------------------------------------------------------|
START                TZERO=[1983.0401],  METOUT=[2],  NSTORM=[0],  NRUN=[1983]
*%-----------------|-------------------------------------------------------|
START                TZERO=[1984.0401],  METOUT=[2],  NSTORM=[0],  NRUN=[1984]
*%-----------------|-------------------------------------------------------|
START                TZERO=[1985.0401],  METOUT=[2],  NSTORM=[0],  NRUN=[1985]
*%-----------------|-------------------------------------------------------|
START                TZERO=[1986.0401],  METOUT=[2],  NSTORM=[0],  NRUN=[1986]
*%-----------------|-------------------------------------------------------|
START                TZERO=[1987.0401],  METOUT=[2],  NSTORM=[0],  NRUN=[1987]
*%-----------------|-------------------------------------------------------|
START                TZERO=[1988.0401],  METOUT=[2],  NSTORM=[0],  NRUN=[1988]
*%-----------------|-------------------------------------------------------|
START                TZERO=[1989.0401],  METOUT=[2],  NSTORM=[0],  NRUN=[1989]
*%-----------------|-------------------------------------------------------|
START                TZERO=[1990.0401],  METOUT=[2],  NSTORM=[0],  NRUN=[1990]
*%-----------------|-------------------------------------------------------|
START                TZERO=[1991.0401],  METOUT=[2],  NSTORM=[0],  NRUN=[1991]
*%-----------------|-------------------------------------------------------|
START                TZERO=[1992.0401],  METOUT=[2],  NSTORM=[0],  NRUN=[1992]
*%-----------------|-------------------------------------------------------|
START                TZERO=[1993.0401],  METOUT=[2],  NSTORM=[0],  NRUN=[1993]
*%-----------------|-------------------------------------------------------|
START                TZERO=[1994.0401],  METOUT=[2],  NSTORM=[0],  NRUN=[1994]
*%-----------------|-------------------------------------------------------|
START                TZERO=[1995.0401],  METOUT=[2],  NSTORM=[0],  NRUN=[1995]
*%-----------------|-------------------------------------------------------|
START                TZERO=[1996.0401],  METOUT=[2],  NSTORM=[0],  NRUN=[1996]
*%-----------------|-------------------------------------------------------|
START                TZERO=[1997.0401],  METOUT=[2],  NSTORM=[0],  NRUN=[1997]
*%-----------------|-------------------------------------------------------|
START                TZERO=[1998.0401],  METOUT=[2],  NSTORM=[0],  NRUN=[1998]
*%-----------------|-------------------------------------------------------|
START                TZERO=[1999.0401],  METOUT=[2],  NSTORM=[0],  NRUN=[1999]
```

```
*%-----------------|-------------------------------------------------------|
START               TZERO=[2000.0401],  METOUT=[2],  NSTORM=[0],  NRUN=[2000]
*%-----------------|-------------------------------------------------------|
START               TZERO=[2002.0401],  METOUT=[2],  NSTORM=[0],  NRUN=[2002]
*%-----------------|-------------------------------------------------------|
START               TZERO=[2003.0401],  METOUT=[2],  NSTORM=[0],  NRUN=[2003]
*%-----------------|-------------------------------------------------------|
START               TZERO=[2004.0401],  METOUT=[2],  NSTORM=[0],  NRUN=[2004]
*%-----------------|-------------------------------------------------------|
START               TZERO=[2006.0401],  METOUT=[2],  NSTORM=[0],  NRUN=[2006]
*%-----------------|-------------------------------------------------------|
START               TZERO=[2007.0401],  METOUT=[2],  NSTORM=[0],  NRUN=[2007]
*%-----------------|-------------------------------------------------------|
FINISH
```

```
00001>  ================================================================================
00002>
00003>  SSSSS   W   W   M   M   H   H   Y   Y   M   M    OOO          222    000   11   5555   =========
00004>  S       W W W   MM MM   H   H    Y Y    MM MM   O   O           2   0   0  11   5
00005>  SSSSS   W W W   M M M   HHHHH     Y     M M M   O   O       22      0   0  11   5       Ver 5.500
00006>      S   W W     M   M   H   H     Y     M   M   O   O      222    0   0  11   555     FEB  2015
00007>  SSSSS    W W     M   M   H   H     Y     M   M    OOO     2       0   0  11     5     =========
00008>
00009>         StormWater Management HYdrologic Model              222    000   11   555     =========
00010>
00011>  ***************************************************************************************
00012>  ******************/ ********************  SWMHYMO Ver 5.500  ************************************
00013>  ******************  A single event and continuous hydrologic simulation model  ********************
00014>  ******************    based on the principles of HYMO and its successors       ********************
00015>  ******************                    OTTHYMO-83 and OTTHYMO-89.                ********************
00016>  ***************************************************************************************
00017>  ****************** Distributed by:  J.F. Sabourin and Associates Inc.          ********************
00018>  ******************                  Ottawa,  Ontario: (613) 836-3884           ********************
00019>  ******************                  Gatineau, Quebec: (819) 243-6858           ********************
00020>  ******************                  E-Mail: swmhymo@jfsa.com                   ********************
00021>  ***************************************************************************************
00022>
00023>  ***************************************************************************************
00024>  ****************** Licensed user: JFSAinc.                                  ********************
00025>  ******************                 Ottawa                 SERIAL#:2549237    ********************
00026>  ***************************************************************************************
00027>
00028>  ******************                                                            ********************
00029>  ******************                ****** PROGRAM ARRAY DIMENSIONS ******       ********************
00030>  ******************            Maximum value for ID numbers  :    11           ********************
00031>  ******************            Max. number of rainfall points: 105408          ********************
00032>  ******************            Max. number of flow points   : 105408           ********************
00033>  ***************************************************************************************
00034>
00035>
00036>  ******************************  S U M M A R Y   O U T P U T  ******************************
00037>  ***************************************************************************************
00038>  *                     RUN DATE: 2024-07-31     TIME: 20:01:32     RUN COUNTER: 000908    *
00039>  ***************************************************************************************
00040>  * Input   file: C:\Temp\202407-THUND_v04.0-Post-Cont\THUND_v04.0-Post-Cont.dat           *
00041>  * Output  file: C:\Temp\202407-THUND_v04.0-Post-Cont\THUND_v04.0-Post-Cont.out           *
00042>  * Summary file: C:\Temp\202407-THUND_v04.0-Post-Cont\THUND_v04.0-Post-Cont.sum           *
00043>  * User comments:                                                                        *
00044>  * 1:_____________________________________________________________________________*
00045>  * 2:_____________________________________________________________________________*
00046>  * 3:_____________________________________________________________________________*
00047>  ***************************************************************************************
00048>
00049>
00050> #*************************************************************************
00051> #  SWMHYMO  / INPUT DATA FILE
00052> #*************************************************************************
00053> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
00054> #  Date       : 04-28-2021
00055> #  Modeller   : [J.B]
00056> #  Company    : JFSAinc.
00057> #  License #  :  2549237
00058> #*************************************************************************
00059> #*************************************************************************
00060> #*************************************************************************
00061>   ** END OF RUN : 1966
00062>
00063>  ***************************************************************************************
00064>
00065>
00066>
00067>
00068>
00069>  RUN#:COMMAND#
00070> R1967:C00001------------------------------------------------------------------------------
00071>      START
00072>       [TZERO =    .00 hrs on 19670101]
00073>       [METOUT=   2   (1=imperial, 2=metric output)]
00074>       [NSTORM=   0 ]
00075>       [NRUN  = 1967 ]
00076> #*************************************************************************
00077> #  SWMHYMO  / INPUT DATA FILE
00078> #*************************************************************************
00079> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
00080> #  Date       : 04-28-2021
00081> #  Modeller   : [J.B]
00082> #  Company    : JFSAinc.
00083> #  License #  : 2549237
00084> #*************************************************************************
00085> #*************************************************************************
00086> #*************************************************************************
00087> # Ottawa International Airport - April 1st to October 31st
00088> R1967:C00002------------------------------------------------------------------------------
00089>   *  READ AES DATA
00090>       [Filename  = YOW_1967_2007.123                                    ]
00091>       [Start_date= 1967.0101: End_date= 1967.0802]
00092>       {DT= 60.min: Length=  360.hrs: WetHrs=   4: DryHrs=  356: PTOT=  27.00}
00093>       Maximum average rainfall intensities over
00094>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00095>        17.30    11.45     7.63     3.87     1.93      .97      .64      .48      .37    mm/hr
00096>        17.30    22.90    23.20    23.20    23.20    23.20    23.20    23.20    27.00    mm
00097>       19670725 19670725 19670725 19670725 19670725 19670725 19670725 19670726 19670726 19670725  date
00098>       Number of rainfall events per following interevent time
00099>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00100>           4        4        4        3        3        3        3        3        2
00101>       Number of events with at least the following durations
00102>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00103>           3        1        0        0        0        0        0        0        0
00104> R1967:C00003------------------------------------------------------------------------------
00105>      COMPUTE API
00106>       [APIini= 50.00: APIkdy=  .9000: APIkdt= .9956]
00107>       {APImax= 52.39: APIavg= 35.66: APImin= 20.48}
00108> R1967:C00004-----------DTmin-ID:NHYD--------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00109>      CONTINUOUS NASHYD     5.0 01:NORTH-1       34.70     .016 1967.0725_ 5:20   11.53 .427     .000
00110>       [CN= 38.1: N= 3.00: Tp= 4.12]
00111>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
00112>       [InterEventTime=  12.00]
00113> R1967:C00005-----------DTmin-ID:NHYD--------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00114>      CONTINUOUS NASHYD     5.0 01:NORTH-2       12.44     .021 1967.0725_ 2:40   11.95 .443     .000
00115>       [CN= 53.0: N= 3.00: Tp= 1.29]
00116>       [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
00117>       [InterEventTime=  12.00]
00118> R1967:C00006-----------DTmin-ID:NHYD--------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00119>      CONTINUOUS NASHYD     5.0 01:HWY-1         2.36     .012 1967.0725_ 2:35   13.85 .513     .000
00120>       [CN= 81.7: N= 3.00: Tp= 1.21]
00121>       [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
00122>       [InterEventTime=  12.00]
00123> R1967:C00007-----------DTmin-ID:NHYD--------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00124>      ADD HYD               5.0 02:NORTH-1       34.70     .016 1967.0725_ 5:20   11.53  n/a     .000
00125>                       +    5.0 02:NORTH-2       12.44     .021 1967.0725_ 2:40   11.95  n/a     .000
00126>                       +    5.0 02:HWY-1          2.36     .012 1967.0725_ 2:35   13.85  n/a     .000
00127>                     SUM:   5.0 01:J1           49.51     .043 1967.0725_ 2:45   11.74  n/a     .000
00128> R1967:C00008-----------DTmin-ID:NHYD--------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00129>      ROUTE CHANNEL   ->    5.0 02:J1           49.51     .043 1967.0725_ 2:45   11.74  n/a     .000
00130>       [RDT= 5.00] out<-    5.0 01:R1           49.51     .041 1967.0725_ 3:05   11.74  n/a     .000
00131>         [L/S/n=  478./ .440/.035]
00132>         {Vmax=  .307:Dmax=  .118}
00133> R1967:C00009-----------DTmin-ID:NHYD--------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00134>      CONTINUOUS NASHYD     5.0 01:INT-1         4.39     .008 1967.0725_ 3:00   12.26 .454     .000
00135>       [CN= 60.4: N= 3.00: Tp= 1.66]
00136>       [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
00137>       [InterEventTime=  12.00]
00138> R1967:C00010-----------DTmin-ID:NHYD--------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00139>      CONTINUOUS NASHYD     5.0 01:INT-2         3.61     .006 1967.0725_ 2:20   11.76 .436     .000
00140>       [CN= 47.4: N= 3.00: Tp=  .95]
00141>       [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
00142>       [InterEventTime=  12.00]
00143> R1967:C00011-----------DTmin-ID:NHYD--------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00144>      CONTINUOUS NASHYD     5.0 01:A3A           3.84     .007 1967.0725_ 2:50   12.16 .451     .000
00145>       [CN= 58.4: N= 3.00: Tp= 1.46]
00146>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
00147>       [InterEventTime=  12.00]
00148> R1967:C00012-----------DTmin-ID:NHYD--------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00149>   *  CONTINUOUS STANDHYD    5.0 01:Pond3-In      1.21     .037 1967.0725_ 1:00   15.13 .560     .000
00150>       [XIMP=.64:TIMP=.75]
00151>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F=****]
00152>       [Pervious     area: IAper= 4.67:SLPP=2.50:LGP= 100.:MNP=.250:SCP=   .0]
00153>       [Impervious   area: IAimp= 1.57:SLPI=1.50:LGI=  50.:MNI=.013:SCI=   .0]
00154>       [IaRECimp=  12.00: IaRECper=  12.00]
00155> R1967:C00013-----------DTmin-ID:NHYD--------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00156>      ROUTE RESERVOIR ->    5.0 02:Pond3-In      1.21     .037 1967.0725_ 1:00   15.13  n/a     .000
00157>                      out <=    5.0 01:Pond3-Out     1.21     .003 1967.0725_ 2:05   15.12  n/a     .000
00158>                overflow <=    5.0 03:Pond3-Over      .00     .000 1967.0719_ 0:00     .00  n/a     .000
00159>       {MxStoUsed=.1679E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
00160> R1967:C00014-----------DTmin-ID:NHYD--------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00161>      ADD HYD               5.0 02:Pond3-Over      .00     .000 1967.0719_ 0:00     .00  n/a     .000
00162>                       +    5.0 02:Pond3-Out     1.21     .003 1967.0725_ 2:05   15.12  n/a     .000
00163>                     SUM:   5.0 01:Pond3-Ditc     1.21     .003 1967.0725_ 2:05   15.12  n/a     .000
00164> R1967:C00015-----------DTmin-ID:NHYD--------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00165>      ROUTE CHANNEL   ->    5.0 02:Pond3-Out     1.21     .003 1967.0725_ 2:05   15.12  n/a     .000
00166>       [RDT= 5.00] out<-    5.0 01:A3C-R         1.21     .002 1967.0725_ 5:10   15.12  n/a     .000
00167>         [L/S/n=  500./ .140/.035]
00168>         {Vmax=  .073:Dmax=  .037}
00169> R1967:C00016-----------DTmin-ID:NHYD--------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00170>      CONTINUOUS NASHYD     5.0 01:INT-3         5.71     .015 1967.0725_ 2:20   12.16 .451     .000
00171>       [CN= 58.5: N= 3.00: Tp=  .89]
00172>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
00173>       [InterEventTime=  12.00]
00174> R1967:C00017-----------DTmin-ID:NHYD--------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00175>      ADD HYD               5.0 02:R1           49.51     .041 1967.0725_ 3:05   11.74  n/a     .000
00176>                       +    5.0 02:INT-1         4.39     .008 1967.0725_ 3:00   12.26  n/a     .000
00177>                       +    5.0 02:INT-2         3.61     .006 1967.0725_ 2:20   11.76  n/a     .000
00178>                       +    5.0 02:INT-3         5.71     .015 1967.0725_ 2:20   12.16  n/a     .000
00179>                       +    5.0 02:A3A           3.84     .007 1967.0725_ 2:50   12.16  n/a     .000
00180>                       +    5.0 02:A3C-R         1.21     .002 1967.0725_ 5:10   15.12  n/a     .000
00181>                     SUM=   5.0 01:J2           68.26     .075 1967.0725_ 2:45   11.90  n/a     .000
00182> R1967:C00018-----------DTmin-ID:NHYD--------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00183>      ROUTE CHANNEL   ->    5.0 02:J2           68.26     .075 1967.0725_ 2:45   11.90  n/a     .000
00184>       [RDT= 5.00] out<-    5.0 01:R2           68.26     .072 1967.0725_ 3:00   11.90  n/a     .000
00185>         [L/S/n=  359./ .560/.035]
00186>         {Vmax=  .317:Dmax=  .086}
00187> R1967:C00019-----------DTmin-ID:NHYD--------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00188>      CONTINUOUS NASHYD     5.0 01:A1A          21.43     .017 1967.0725_ 3:00   11.47 .425     .000
00189>       [CN= 36.1: N= 3.00: Tp= 1.68]
00190>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
00191>       [InterEventTime=  12.00]
00192> R1967:C00020-----------DTmin-ID:NHYD--------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00193>      CONTINUOUS STANDHYD    5.0 01:Pond1-In      10.00     .187 1967.0725_ 1:00   11.84 .439     .000
00194>       [XIMP=.38:TIMP=.74]
00195>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F=****]
00196>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP= 500.:MNP=.250:SCP=   .0]
00197>       [Impervious   area: IAimp= 1.57:SLPI=1.50:LGI= 250.:MNI=.013:SCI=   .0]
00198>       [IaRECimp=  12.00: IaRECper=  12.00]
00199> R1967:C00021-----------DTmin-ID:NHYD--------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00200>      ROUTE RESERVOIR ->    5.0 02:Pond1-In      10.00     .187 1967.0725_ 1:00   11.84  n/a     .000
00201>                      out <=    5.0 01:Pond1-Out     10.00     .023 1967.0725_ 3:00   11.84  n/a     .000
00202>                overflow <=    5.0 03:Pond1-Over      .00     .000 1967.0719_ 0:00     .00  n/a     .000
00203>       {MxStoUsed=.7467E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
00204> R1967:C00022-----------DTmin-ID:NHYD--------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00205>      CONTINUOUS NASHYD     5.0 01:A2            9.14     .029 1967.0725_ 2:30   12.68 .469     .000
00206>       [CN= 68.4: N= 3.00: Tp= 1.12]
00207>       [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
00208>       [InterEventTime=  12.00]
00209> R1967:C00023-----------DTmin-ID:NHYD--------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00210>      ADD HYD               5.0 02:R2           68.26     .072 1967.0725_ 3:00   11.90  n/a     .000
00211>                       +    5.0 02:A1A          21.43     .017 1967.0725_ 3:00   11.47  n/a     .000
00212>                       +    5.0 02:A2            9.14     .029 1967.0725_ 2:30   12.68  n/a     .000
00213>                       +    5.0 02:Pond1-Over      .00     .000 1967.0719_ 0:00     .00  n/a     .000
00214>                       +    5.0 02:Pond1-Out     10.00     .023 1967.0725_ 3:00   11.84  n/a     .000
00215>                     SUM=   5.0 01:J3           108.84     .138 1967.0725_ 2:50   11.87  n/a     .000
00216> R1967:C00024-----------DTmin-ID:NHYD--------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00217>      ROUTE CHANNEL   ->    5.0 02:J3           108.84     .138 1967.0725_ 2:50   11.87  n/a     .000
00218>       [RDT= 5.00] out<-    5.0 01:R3           108.84     .135 1967.0725_ 3:10   11.87  n/a     .000
00219>         [L/S/n=  396./ .305/.035]
00220>         {Vmax=  .346:Dmax=  .197}
00221> R1967:C00025-----------DTmin-ID:NHYD--------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00222>      CONTINUOUS NASHYD     5.0 01:SOUTH-1       20.21     .017 1967.0725_ 2:45   11.44 .424     .000
00223>       [CN= 35.5: N= 3.00: Tp= 1.40]
00224>       [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
00225>       [InterEventTime=  12.00]
00226> R1967:C00026-----------DTmin-ID:NHYD--------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00227>      ADD HYD               5.0 02:R3           108.84     .135 1967.0725_ 3:10   11.87  n/a     .000
00228>                       +    5.0 02:SOUTH-1       20.21     .017 1967.0725_ 2:45   11.44  n/a     .000
00229>                     SUM=   5.0 01:J4           129.05     .151 1967.0725_ 3:05   11.80  n/a     .000
00230> R1967:C00027-----------DTmin-ID:NHYD--------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00231>      ROUTE CHANNEL   ->    5.0 02:J4           129.05     .151 1967.0725_ 3:05   11.80  n/a     .000
00232>       [RDT= 5.00] out<-    5.0 01:R4           129.05     .147 1967.0725_ 3:25   11.80  n/a     .000
00233>         [L/S/n=  482./ .410/.035]
00234>         {Vmax=  .412:Dmax=  .189}
00235> R1967:C00028-----------DTmin-ID:NHYD--------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00236>      CONTINUOUS NASHYD     5.0 01:SOUTH-2       11.61     .013 1967.0725_ 2:25   11.47 .425     .000
00237>       [CN= 36.7: N= 3.00: Tp=  .96]
00238>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
00239>       [InterEventTime=  12.00]
00240> R1967:C00029-----------DTmin-ID:NHYD--------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00241>      ADD HYD               5.0 02:R4           129.05     .147 1967.0725_ 3:25   11.80  n/a     .000
00242>                       +    5.0 02:SOUTH-2       11.61     .013 1967.0725_ 2:25   11.47  n/a     .000
00243>                     SUM=   5.0 01:J5           140.66     .155 1967.0725_ 3:20   11.78  n/a     .000
00244> R1967:C00030-----------DTmin-ID:NHYD--------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00245>      ROUTE CHANNEL   ->    5.0 02:J5           140.66     .155 1967.0725_ 3:20   11.78  n/a     .000
00246>       [RDT= 5.00] out<-    5.0 01:R5           140.66     .155 1967.0725_ 3:25   11.78  n/a     .000
00247>         [L/S/n=  181./ .500/.035]
00248>         {Vmax=  .372:Dmax=  .175}
00249> R1967:C00031-----------DTmin-ID:NHYD--------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00250>      CONTINUOUS NASHYD     5.0 01:SOUTH-3        7.98     .012 1967.0725_ 2:20   11.62 .430     .000
00251>       [CN= 42.6: N= 3.00: Tp=  .89]
00252>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
00253>       [InterEventTime=  12.00]
00254> R1967:C00032-----------DTmin-ID:NHYD--------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00255>      ADD HYD               5.0 02:R5           140.66     .155 1967.0725_ 3:25   11.78  n/a     .000
00256>                       +    5.0 02:SOUTH-3        7.98     .012 1967.0725_ 2:20   11.62  n/a     .000
00257>                     SUM=   5.0 01:J6           148.64     .161 1967.0725_ 3:20   11.77  n/a     .000
00258> R1967:C00033-----------DTmin-ID:NHYD--------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00259>      SAVE HYD              5.0 01:J6           148.64     .161 1967.0725_ 3:20   11.77  n/a     .000
00260>         fname :J6.1967
00261>         remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
00262> R1967:C00034-----------DTmin-ID:NHYD--------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00263>      ROUTE CHANNEL   ->    5.0 02:J6           148.64     .161 1967.0725_ 3:20   11.77  n/a     .000
00264>       [RDT= 5.00] out<-    5.0 01:R6           148.64     .159 1967.0725_ 3:30   11.77  n/a     .000
00265>         [L/S/n=  323./ .440/.035]
00266>         {Vmax=  .429:Dmax=  .191}
00267> R1967:C00035-----------DTmin-ID:NHYD--------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00268>      CONTINUOUS NASHYD     5.0 01:SOUTH-4       14.99     .016 1967.0725_ 2:35   11.53 .427     .000
00269>       [CN= 39.5: N= 3.00: Tp= 1.23]
00270>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
00271>       [InterEventTime=  12.00]
00272> R1967:C00036-----------DTmin-ID:NHYD--------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00273>      ADD HYD               5.0 02:R6           148.64     .159 1967.0725_ 3:30   11.77  n/a     .000
00274>                       +    5.0 02:SOUTH-4       14.99     .016 1967.0725_ 2:35   11.53  n/a     .000
00275>                     SUM=   5.0 01:Total        163.63     .172 1967.0725_ 3:25   11.74  n/a     .000
00276> #*************************************************************************
00277> #*************************************************************************
00278> ###########################################################################
00279> #  CONTINUOUS RAINFALL DATA
00280> ###########################################################################
00281> #*************************************************************************
00282> #  STORMS
00283> #*************************************************************************
00284>   ** END OF RUN : 1967
00285>
00286>  ***************************************************************************************
00287>
00288>
00289>
00290>
00291>
00292>  RUN#:COMMAND#
00293> R1968:C00001------------------------------------------------------------------------------
00294>      START
00295>       [TZERO =    .00 hrs on 19680401]
00296>       [METOUT=   2   (1=imperial, 2=metric output)]
00297>       [NSTORM=   0 ]
00298>       [NRUN  = 1968 ]
00299> #*************************************************************************
00300> #  SWMHYMO  / INPUT DATA FILE
00301> #*************************************************************************
00302> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
00303> #  Date       : 04-28-2021
00304> #  Modeller   : [J.B]
00305> #  Company    : JFSAinc.
00306> #  License #  :  2549237
00307> #*************************************************************************
00308> #*************************************************************************
00309> #*************************************************************************
00310> # Ottawa International Airport - April 1st to October 31st
00311> R1968:C00002------------------------------------------------------------------------------
00312>      READ AES DATA
00313>       [Filename  = YOW_1967_2007.123                                    ]
00314>       [Start_date= 1968.0401: End_date= 1968.1031]
00315>       {DT= 60.min: Length= 5136.hrs: WetHrs=  315: DryHrs= 4821: PTOT= 499.10}
00316>       Maximum average rainfall intensities over
00317>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00318>        33.30    17.05    11.37     6.23     3.74     1.87     1.26      .95      .70    mm/hr
00319>        33.30    34.10    34.10    37.40    44.90    44.90    45.40    45.40    50.20    mm
00320>       19680817 19680817 19680817 19680817 19680817 19680817 19680818 19680808 19680820  date
00321>       Number of rainfall events per following interevent time
00322>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00323>          106       82       74       67       58       51       36       32       27
00324>       Number of events with at least the following durations
00325>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00326>          106       57       36       14        4        0        0        0        0
00327> R1968:C00003------------------------------------------------------------------------------
00328>      COMPUTE API
00329>       [APIini= 50.00: APIkdy=  .9000: APIkdt= .9956]
00330>       {APImax= 67.52: APIavg= 23.84: APImin=  6.45}
00331> R1968:C00004-----------DTmin-ID:NHYD--------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00332>      CONTINUOUS NASHYD     5.0 01:NORTH-1       34.70     .046 1968.0912_ 0:55   199.28 .399     .000
00333>       [CN= 38.1: N= 3.00: Tp= 4.12]
00334>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
00335>       [InterEventTime=  12.00]
00336> R1968:C00005-----------DTmin-ID:NHYD--------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00337>      CONTINUOUS NASHYD     5.0 01:NORTH-2       12.44     .063 1968.0817_ 6:05   199.84 .400     .000
00338>       [CN= 53.0: N= 3.00: Tp= 1.29]
00339>       [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
00340>       [InterEventTime=  12.00]
00341> R1968:C00006-----------DTmin-ID:NHYD--------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00342>      CONTINUOUS NASHYD     5.0 01:HWY-1         2.36     .032 1968.0817_ 6:00   202.98 .407     .000
00343>       [CN= 81.7: N= 3.00: Tp= 1.21]
00344>       [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
00345>       [InterEventTime=  12.00]
00346> R1968:C00007-----------DTmin-ID:NHYD--------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00347>      ADD HYD               5.0 02:NORTH-1       34.70     .046 1968.0912_ 0:55   199.28  n/a     .000
00348>                       +    5.0 02:NORTH-2       12.44     .063 1968.0817_ 6:05   199.84  n/a     .000
00349>                       +    5.0 02:HWY-1          2.36     .032 1968.0817_ 6:00   202.98  n/a     .000
00350>                     SUM=   5.0 01:J1           49.51     .118 1968.0817_ 6:10   199.60  n/a     .000
00351> R1968:C00008-----------DTmin-ID:NHYD--------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00352>      ROUTE CHANNEL   ->    5.0 02:J1           49.51     .118 1968.0817_ 6:10   199.60  n/a     .000
00353>   *  [RDT= 5.00] out<-    5.0 01:R1           49.51     .114 1968.0817_ 6:25   199.60  n/a     .000
00354>         [L/S/n=  478./ .440/.035]
00355>         {Vmax=  .413:Dmax=  .178}
00356> R1968:C00009-----------DTmin-ID:NHYD--------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00357>      CONTINUOUS NASHYD     5.0 01:INT-1         4.39     .022 1968.0817_ 6:25   200.22 .401     .000
00358>       [CN= 60.4: N= 3.00: Tp= 1.66]
00359>       [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
00360>       [InterEventTime=  12.00]
```

```
00361> R1968:C00010-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00362>     CONTINUOUS NASHYD     5.0 01:INT-2          3.61      .020 1968.0817_5:45  199.59 .400     .000
00363>       [CN= 47.4: N= 3.00: Tp=  .95]
00364>       [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
00365>       [InterEventTime=  12.00]
00366> R1968:C00011-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00367>     CONTINUOUS NASHYD     5.0 01:A3A            3.84      .021 1968.0817_6:15  200.11 .401     .000
00368>       [CN= 58.4: N= 3.00: Tp= 1.46]
00369>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
00370>       [InterEventTime=  12.00]
00371> R1968:C00012-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00372> *  CONTINUOUS STANDHYD    5.0 01:Pond3-In       1.21      .089 1968.0817_5:00  268.97 .539     .000
00373>       [XIMP=.64:TIMP=.75]
00374>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  Fe=****]
00375>       [Pervious     area: IAper= 4.67:SLPP=2.50:LGP= 100.:MNP=.250:SCP=   .0]
00376>       [Impervious   area: IAimp= 1.57:SLPI=2.50:LGI=  50.:MNI=.013:SCI=   .0]
00377>       [IaRECimp=  12.00: IaRECper=  12.00]
00378> R1968:C00013-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00379>     ROUTE RESERVOIR ->    5.0 02:Pond3-In       1.21      .089 1968.0817_5:00  268.97  n/a     .000
00380>                 out <=    5.0 01:Pond3-Out      1.21      .003 1968.0817_5:50  268.95  n/a     .000
00381>           overflow <=     5.0 03:Pond3-Over     .00       .000 1968.0401_0:00    .00  n/a     .000
00382>       {MxStoUsed=.3276E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=   0.hrs}
00383> R1968:C00014-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00384>     ADD HYD               5.0 02:Pond3-Over     .00       .000 1968.0401_0:00    .00  n/a     .000
00385>                   +       5.0 02:Pond3-Out      1.21      .003 1968.0817_5:50  268.95  n/a     .000
00386>                  SUM=     5.0 01:Pond3-Ditc     1.21      .003 1968.0817_5:50  268.95  n/a     .000
00387> R1968:C00015-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00388>     ROUTE CHANNEL   ->    5.0 02:Pond3-Out      1.21      .003 1968.0817_5:50  268.95  n/a     .000
00389>       [RDT= 5.00] out<-     5.0 01:A3C-R          1.21      .003 1968.0817_15:55  268.95  n/a     .000
00390>       [L/S/n=  500./ .140/.035]
00391>       {Vmax=  .075:Dmax=  .039}
00392> R1968:C00016-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00393>     CONTINUOUS NASHYD     5.0 01:INT-3          5.71      .048 1968.0817_5:40  200.11 .401     .000
00394>       [CN= 58.5: N= 3.00: Tp=  .89]
00395>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
00396>       [InterEventTime=  12.00]
00397> R1968:C00017-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00398>     ADD HYD               5.0 02:R1             49.51     .114 1968.0817_6:25  199.60  n/a     .000
00399>                   +       5.0 02:INT-1          4.39      .022 1968.0817_6:25  200.22  n/a     .000
00400>                   +       5.0 02:INT-2          3.61      .020 1968.0817_5:45  199.59  n/a     .000
00401>                   +       5.0 02:INT-3          5.71      .048 1968.0817_5:40  200.11  n/a     .000
00402>                   +       5.0 02:A3A            3.84      .021 1968.0817_6:15  200.11  n/a     .000
00403>                   +       5.0 02:A3C-R          1.21      .003 1968.0817_15:55  268.95  n/a     .000
00404>                  SUM=     5.0 01:J2            68.26     .210 1968.0817_6:10  200.92  n/a     .000
00405> R1968:C00018-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00406>     ROUTE CHANNEL   ->    5.0 02:J2             68.26     .210 1968.0817_6:10  200.92  n/a     .000
00407>       [RDT= 5.00] out<-     5.0 01:R2             68.26     .207 1968.0817_6:20  200.92  n/a     .000
00408>       [L/S/n=  359./ .560/.035]
00409>       {Vmax=  .462:Dmax=  .140}
00410> R1968:C00019-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00411>     CONTINUOUS NASHYD     5.0 01:A1A            21.43     .047 1968.0817_6:30  199.20 .399     .000
00412>       [CN= 36.1: N= 3.00: Tp= 1.68]
00413>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
00414>       [InterEventTime=  12.00]
00415> R1968:C00020-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00416>     CONTINUOUS STANDHYD    5.0 01:Pond1-In       10.00     .525 1968.0817_5:00  178.28 .357     .000
00417>       [XIMP=.38:TIMP=.74]
00418>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  Fe=****]
00419>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP= 100.:MNP=.250:SCP=   .0]
00420>       [Impervious   area: IAimp= 1.57:SLPI=1.50:LGI= 250.:MNI=.013:SCI=   .0]
00421>       [IaRECimp=  12.00: IaRECper=  12.00]
00422> R1968:C00021-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00423>     ROUTE RESERVOIR ->    5.0 02:Pond1-In       10.00     .525 1968.0817_5:00  178.28  n/a     .000
00424>                 out <=    5.0 01:Pond1-Out      10.00     .029 1968.0817_7:55  178.28  n/a     .000
00425>           overflow <=     5.0 03:Pond1-Over     .00       .000 1968.0401_0:00    .00  n/a     .000
00426>       {MxStoUsed=.2154E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=   0.hrs}
00427> R1968:C00022-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00428>     CONTINUOUS NASHYD     5.0 01:A2             9.14      .085 1968.0817_5:55  200.74 .402     .000
00429>       [CN= 68.4: N= 3.00: Tp= 1.12]
00430>       [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
00431>       [InterEventTime=  12.00]
00432> R1968:C00023-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00433>     ADD HYD               5.0 02:R2             68.26     .207 1968.0817_6:20  200.92  n/a     .000
00434>                   +       5.0 02:A1A            21.43     .047 1968.0817_6:30  199.20  n/a     .000
00435>                   +       5.0 02:A2             9.14      .085 1968.0817_5:55  200.74  n/a     .000
00436>                   +       5.0 02:Pond1-Over     .00       .000 1968.0401_0:00    .00  n/a     .000
00437>                   +       5.0 02:Pond1-Out      10.00     .029 1968.0817_7:55  178.28  n/a     .000
00438>                  SUM=     5.0 01:J3            108.84    .362 1968.0817_6:15  198.48  n/a     .000
00439> R1968:C00024-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00440>     ROUTE CHANNEL   ->    5.0 02:J3             108.84    .362 1968.0817_6:15  198.48  n/a     .000
00441>       [RDT= 5.00] out<-     5.0 01:R3             108.84    .349 1968.0817_6:30  198.48  n/a     .000
00442>       [L/S/n=  396./ .305/.035]
00443>       {Vmax=  .403:Dmax=  .204}
00444> R1968:C00025-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00445>     CONTINUOUS NASHYD     5.0 01:SOUTH-1        20.21     .049 1968.0817_6:10  199.16 .399     .000
00446>       [CN= 35.5: N= 3.00: Tp= 1.40]
00447>       [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
00448>       [InterEventTime=  12.00]
00449> R1968:C00026-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00450>     ADD HYD               5.0 02:R3            108.84     .349 1968.0817_6:30  198.48  n/a     .000
00451>                   +       5.0 02:SOUTH-1        20.21     .049 1968.0817_6:10  199.16  n/a     .000
00452>                  SUM=     5.0 01:J4            129.05    .396 1968.0817_6:30  198.59  n/a     .000
00453> R1968:C00027-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00454>     ROUTE CHANNEL   ->    5.0 02:J4             129.05    .396 1968.0817_6:30  198.59  n/a     .000
00455>       [RDT= 5.00] out<-     5.0 01:R4             129.05    .387 1968.0817_6:45  198.59  n/a     .000
00456>       [L/S/n=  482./ .410/.035]
00457>       {Vmax=  .531:Dmax=  .281}
00458> R1968:C00028-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00459>     CONTINUOUS NASHYD     5.0 01:SOUTH-2        11.61     .041 1968.0817_5:45  199.20 .399     .000
00460>       [CN= 36.7: N= 3.00: Tp=  .96]
00461>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
00462>       [InterEventTime=  12.00]
00463> R1968:C00029-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00464>     ADD HYD               5.0 02:R4            129.05     .387 1968.0817_6:45  198.59  n/a     .000
00465>                   +       5.0 02:SOUTH-2        11.61     .041 1968.0817_5:45  199.20  n/a     .000
00466>                  SUM=     5.0 01:J5            140.66    .412 1968.0817_6:40  198.62  n/a     .000
00467> R1968:C00030-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00468>     ROUTE CHANNEL   ->    5.0 02:J5             140.66    .412 1968.0817_6:40  198.62  n/a     .000
00469>       [RDT= 5.00] out<-     5.0 01:R5             140.66    .411 1968.0817_6:45  198.62  n/a     .000
00470>       [L/S/n=  181./ .500/.035]
00471>       {Vmax=  .505:Dmax=  .256}
00472> R1968:C00031-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00473>     CONTINUOUS NASHYD     5.0 01:SOUTH-3         7.98     .039 1968.0817_5:40  199.41 .400     .000
00474>       [CN= 42.6: N= 3.00: Tp=  .89]
00475>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
00476>       [InterEventTime=  12.00]
00477> R1968:C00032-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00478>     ADD HYD               5.0 02:R5            140.66     .411 1968.0817_6:45  198.62  n/a     .000
00479>                   +       5.0 02:SOUTH-3         7.98     .039 1968.0817_5:40  199.41  n/a     .000
00480>                  SUM=     5.0 01:J6            148.64    .431 1968.0817_6:40  198.66  n/a     .000
00481> R1968:C00033-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00482>     SAVE HYD              5.0 01:J6            148.64    .431 1968.0817_6:40  198.66  n/a     .000
00483>       fname :J6.1968
00484>       remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
00485> R1968:C00034-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00486>     ROUTE CHANNEL   ->    5.0 02:J6             148.64    .431 1968.0817_6:40  198.66  n/a     .000
00487>       [RDT= 5.00] out<-     5.0 01:R6             148.64    .427 1968.0817_6:50  198.66  n/a     .000
00488>       [L/S/n=  323./ .440/.035]
00489>       {Vmax=  .555:Dmax=  .286}
00490> R1968:C00035-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00491>     CONTINUOUS NASHYD     5.0 01:SOUTH-4        14.99     .048 1968.0817_6:00  199.28 .399     .000
00492>       [CN= 39.5: N= 3.00: Tp= 1.23]
00493>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
00494>       [InterEventTime=  12.00]
00495> R1968:C00036-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00496>     ADD HYD               5.0 02:R6            148.64     .427 1968.0817_6:50  198.66  n/a     .000
00497>                   +       5.0 02:SOUTH-4        14.99     .048 1968.0817_6:00  199.28  n/a     .000
00498>                  SUM=     5.0 01:Total         163.63    .465 1968.0817_6:45  198.72  n/a     .000
00499> ##############################################################################
00500> ##############################################################################
00501> ##############################################################################
00502> # CONTINUOUS RAINFALL DATA
00503> ##############################################################################
00504> #*****************************************************************************
00505> # STORMS
00506> #*****************************************************************************
00507>   ** END OF RUN : 1968
00508>
00509> ******************************************************************************************************************
00510>
00511>
00512>
00513>
00514>
00515>  RUN#:COMMAND#
00516> R1969:C00001-----------------------------------------------------------------------------------------------------
00517>       START                 [TZERO =    .00 hrs on 19690401]
00518>       [METOUT=   2   (1=imperial, 2=metric output)]
00519>       [NSTORM=   0 ]
00520>       [NRUN  = 1969 ]
00521> #*****************************************************************************
00522> #  SWMHYMO  / INPUT DATA FILE
00523> #*****************************************************************************
00524> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
00525> #  Date     : 04-28-2021
00526> #  Modeller   : [J.B]
00527> #  Company    : JFSAinc.
00528> #  License #  :  2540237
00529> #*****************************************************************************
00530> #*****************************************************************************
00531> #*****************************************************************************
00532> #*****************************************************************************
00533> # Ottawa International Airport - April 1st to October 31st
00534> R1969:C00002-----------------------------------------------------------------------------------------------------
00535>  *  READ AES DATA
00536>       [Filename  = YOW_1967_2007.123                                          ]
00537>       [Start_date= 1969.0401: End_date= 1969.1031]
00538>       {DT= 60.min: Length= 5136.hrs: WetHrs=  329: DryHrs= 4807: PTOT= 417.80}
00539>       Maximum average rainfall intensities over
00540>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00541>        21.10    16.25    10.83     7.78     3.93     2.10     1.40     1.09      .75   mm/hr
00542>        21.10    32.50    32.50    46.70    47.20    50.30    50.30    52.10    54.00   mm
00543>       19690818 19690818 19690818 19690818 19690819 19690819 19690819 19690819 19690819  date
00544>       Number of rainfall events per following interevent time
00545>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00546>          123       90       85       73       58       46       39       35       27
00547>       Number of events with at least the following durations
00548>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00549>          122       67       43       12        1        0        0        0        0
00550> R1969:C00003-----------------------------------------------------------------------------------------------------
00551>       COMPUTE API
00552>       [APIini= 50.00: APIkdy=  .9000: APIkdt=  .9956]
00553>       {APImax= 56.77: APIavgp= 20.26: APImin=  3.02}
00554> R1969:C00004-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00555>     CONTINUOUS NASHYD     5.0 01:NORTH-1        34.70     .052 1969.0819_5:10  125.15 .300     .000
00556>       [CN= 38.1: N= 3.00: Tp= 4.12]
00557>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
00558>       [InterEventTime=  12.00]
00559> R1969:C00005-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00560>     CONTINUOUS NASHYD     5.0 01:NORTH-2        12.44     .062 1969.0819_3:00  125.89 .301     .000
00561>       [CN= 53.0: N= 3.00: Tp= 1.29]
00562>       [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
00563>       [InterEventTime=  12.00]
00564> R1969:C00006-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00565>     CONTINUOUS NASHYD     5.0 01:HWY-1          2.36      .027 1969.0819_2:55  130.88 .313     .000
00566>       [CN= 81.7: N= 3.00: Tp= 1.21]
00567>       [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
00568>       [InterEventTime=  12.00]
00569> R1969:C00007-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00570>     ADD HYD               5.0 02:NORTH-1        34.70     .052 1969.0819_5:10  125.15  n/a     .000
00571>                   +       5.0 02:NORTH-2        12.44     .062 1969.0819_3:00  125.89  n/a     .000
00572>                   +       5.0 02:HWY-1          2.36      .027 1969.0819_2:55  130.88  n/a     .000
00573>                  SUM=     5.0 01:J1             49.51     .128 1969.0819_3:05  125.61  n/a     .000
00574> R1969:C00008-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00575>     ROUTE CHANNEL   ->    5.0 02:J1             49.51     .128 1969.0819_3:05  125.61  n/a     .000
00576> *   [RDT= 5.00] out<-     5.0 01:R1             49.51     .125 1969.0819_3:25  125.61  n/a     .000
00577>       [L/S/n=  478./ .440/.035]
00578>       {Vmax=  .422:Dmax=  .184}
00579> R1969:C00009-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00580>     CONTINUOUS NASHYD     5.0 01:INT-1          4.39      .022 1969.0819_3:20  126.49 .303     .000
00581>       [CN= 60.4: N= 3.00: Tp= 1.66]
00582>       [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
00583>       [InterEventTime=  12.00]
00584> R1969:C00010-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00585>     CONTINUOUS NASHYD     5.0 01:INT-2          3.61      .019 1969.0819_2:45  125.54 .300     .000
00586>       [CN= 47.4: N= 3.00: Tp=  .95]
00587>       [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
00588>       [InterEventTime=  12.00]
00589> R1969:C00011-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00590>     CONTINUOUS NASHYD     5.0 01:A3A            3.84      .020 1969.0819_3:10  126.28 .302     .000
00591>       [CN= 58.4: N= 3.00: Tp= 1.46]
00592>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
00593>       [InterEventTime=  12.00]
00594> R1969:C00012-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00595> *  CONTINUOUS STANDHYD    5.0 01:Pond3-In       1.21      .054 1969.0818_22:00  208.34 .499     .000
00596>       [XIMP=.64:TIMP=.75]
00597>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  Fe=****]
00598>       [Pervious     area: IAper= 4.67:SLPP=2.50:LGP= 100.:MNP=.250:SCP=   .0]
00599>       [Impervious   area: IAimp= 1.57:SLPI=2.50:LGI=  50.:MNI=.013:SCI=   .0]
00600>       [IaRECimp=  12.00: IaRECper=  12.00]
00601> R1969:C00013-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00602>     ROUTE RESERVOIR ->    5.0 02:Pond3-In       1.21      .054 1969.0818_22:00  208.35  n/a     .000
00603>                 out <=    5.0 01:Pond3-Out      1.21      .003 1969.0819_2:10  208.33  n/a     .000
00604>           overflow <=     5.0 03:Pond3-Over     .00       .000 1969.0401_0:00    .00  n/a     .000
00605>       {MxStoUsed=.3652E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=   0.hrs}
00606> R1969:C00014-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00607>     ADD HYD               5.0 02:Pond3-Over     .00       .000 1969.0401_0:00    .00  n/a     .000
00608>                   +       5.0 02:Pond3-Out      1.21      .003 1969.0819_2:10  208.33  n/a     .000
00609>                  SUM=     5.0 01:Pond3-Ditc     1.21      .003 1969.0819_2:10  208.33  n/a     .000
00610> R1969:C00015-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00611>     ROUTE CHANNEL   ->    5.0 02:Pond3-Out      1.21      .003 1969.0819_2:10  208.33  n/a     .000
00612>       [RDT= 5.00] out<-     5.0 01:A3C-R          1.21      .003 1969.0819_7:05  208.33  n/a     .000
00613>       [L/S/n=  500./ .140/.035]
00614>       {Vmax=  .075:Dmax=  .039}
00615> R1969:C00016-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00616>     CONTINUOUS NASHYD     5.0 01:INT-3          5.71      .045 1969.0819_2:40  126.28 .302     .000
00617>       [CN= 58.5: N= 3.00: Tp=  .89]
00618>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
00619>       [InterEventTime=  12.00]
00620> R1969:C00017-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00621>     ADD HYD               5.0 02:R1             49.51     .125 1969.0819_3:25  125.61  n/a     .000
00622>                   +       5.0 02:INT-1          4.39      .022 1969.0819_3:20  126.49  n/a     .000
00623>                   +       5.0 02:INT-2          3.61      .019 1969.0819_2:45  125.54  n/a     .000
00624>                   +       5.0 02:INT-3          5.71      .045 1969.0819_2:40  126.28  n/a     .000
00625>                   +       5.0 02:A3A            3.84      .020 1969.0819_3:10  126.28  n/a     .000
00626>                   +       5.0 02:A3C-R          1.21      .003 1969.0819_7:05  208.33  n/a     .000
00627>                  SUM=     5.0 01:J2            68.26     .222 1969.0819_3:05  127.21  n/a     .000
00628> R1969:C00018-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00629>     ROUTE CHANNEL   ->    5.0 02:J2             68.26     .222 1969.0819_3:05  127.21  n/a     .000
00630>       [RDT= 5.00] out<-     5.0 01:R2             68.26     .219 1969.0819_3:10  127.21  n/a     .000
00631>       [L/S/n=  359./ .560/.035]
00632>       {Vmax=  .473:Dmax=  .144}
00633> R1969:C00019-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00634>     CONTINUOUS NASHYD     5.0 01:A1A            21.43     .050 1969.0819_3:20  125.05 .299     .000
00635>       [CN= 36.1: N= 3.00: Tp= 1.68]
00636>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
00637>       [InterEventTime=  12.00]
00638> R1969:C00020-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00639>     CONTINUOUS STANDHYD    5.0 01:Pond1-In       10.00     .333 1969.0818_22:00  138.01 .330     .000
00640>       [XIMP=.38:TIMP=.74]
00641>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  Fe=****]
00642>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP= 500.:MNP=.250:SCP=   .0]
00643>       [Impervious   area: IAimp= 1.57:SLPI=1.50:LGI= 250.:MNI=.013:SCI=   .0]
00644>       [IaRECimp=  12.00: IaRECper=  12.00]
00645> R1969:C00021-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00646>     ROUTE RESERVOIR ->    5.0 02:Pond1-In       10.00     .333 1969.0818_22:00  138.01  n/a     .000
00647>                 out <=    5.0 01:Pond1-Out      10.00     .029 1969.0819_3:05  138.01  n/a     .000
00648>           overflow <=     5.0 03:Pond1-Over     .00       .000 1969.0401_0:00    .00  n/a     .000
00649>       {MxStoUsed=.2143E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=   0.hrs}
00650> R1969:C00022-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00651>     CONTINUOUS NASHYD     5.0 01:A2             9.14      .078 1969.0819_2:50  127.62 .305     .000
00652>       [CN= 68.4: N= 3.00: Tp= 1.12]
00653>       [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
00654>       [InterEventTime=  12.00]
00655> R1969:C00023-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00656>     ADD HYD               5.0 02:R2             68.26     .219 1969.0819_3:10  127.21  n/a     .000
00657>                   +       5.0 02:A1A            21.43     .050 1969.0819_3:20  125.05  n/a     .000
00658>                   +       5.0 02:A2             9.14      .078 1969.0819_2:50  127.62  n/a     .000
00659>                   +       5.0 02:Pond1-Over     .00       .000 1969.0401_0:00    .00  n/a     .000
00660>                   +       5.0 02:Pond1-Out      10.00     .029 1969.0819_3:05  138.01  n/a     .000
00661>                  SUM=     5.0 01:J3            108.84    .371 1969.0819_3:10  127.81  n/a     .000
00662> R1969:C00024-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00663>     ROUTE CHANNEL   ->    5.0 02:J3             108.84    .371 1969.0819_3:10  127.81  n/a     .000
00664>       [RDT= 5.00] out<-     5.0 01:R3             108.84    .360 1969.0819_3:25  127.81  n/a     .000
00665>       [L/S/n=  396./ .305/.035]
00666>       {Vmax=  .405:Dmax=  .297}
00667> R1969:C00025-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00668>     CONTINUOUS NASHYD     5.0 01:SOUTH-1        20.21     .050 1969.0819_3:10  125.00 .299     .000
00669>       [CN= 35.5: N= 3.00: Tp= 1.40]
00670>       [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
00671>       [InterEventTime=  12.00]
00672> R1969:C00026-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00673>     ADD HYD               5.0 02:R3            108.84     .360 1969.0819_3:25  127.81  n/a     .000
00674>                   +       5.0 02:SOUTH-1        20.21     .050 1969.0819_3:10  125.00  n/a     .000
00675>                  SUM=     5.0 01:J4            129.05    .409 1969.0819_3:20  127.35  n/a     .000
00676> R1969:C00027-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00677>     ROUTE CHANNEL   ->    5.0 02:J4             129.05    .409 1969.0819_3:20  127.35  n/a     .000
00678>       [RDT= 5.00] out<-     5.0 01:R4             129.05    .401 1969.0819_3:35  127.35  n/a     .000
00679>       [L/S/n=  482./ .410/.035]
00680>       {Vmax=  .534:Dmax=  .284}
00681> R1969:C00028-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00682>     CONTINUOUS NASHYD     5.0 01:SOUTH-2        11.61     .041 1969.0819_2:45  125.05 .299     .000
00683>       [CN= 36.7: N= 3.00: Tp=  .96]
00684>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
00685>       [InterEventTime=  12.00]
00686> R1969:C00029-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00687>     ADD HYD               5.0 02:R4            129.05     .401 1969.0819_3:35  127.35  n/a     .000
00688>                   +       5.0 02:SOUTH-2        11.61     .041 1969.0819_2:45  125.05  n/a     .000
00689>                  SUM=     5.0 01:J5            140.66    .428 1969.0819_3:30  127.16  n/a     .000
00690> R1969:C00030-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00691>     ROUTE CHANNEL   ->    5.0 02:J5             140.66    .428 1969.0819_3:30  127.16  n/a     .000
00692>       [RDT= 5.00] out<-     5.0 01:R5             140.66    .427 1969.0819_3:35  127.16  n/a     .000
00693>       [L/S/n=  181./ .500/.035]
00694>       {Vmax=  .508:Dmax=  .261}
00695> R1969:C00031-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00696>     CONTINUOUS NASHYD     5.0 01:SOUTH-3         7.98     .038 1969.0819_2:40  125.30 .300     .000
00697>       [CN= 42.6: N= 3.00: Tp=  .89]
00698>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
00699>       [InterEventTime=  12.00]
00700> R1969:C00032-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00701>     ADD HYD               5.0 02:R5            140.66     .427 1969.0819_3:35  127.16  n/a     .000
00702>                   +       5.0 02:SOUTH-3         7.98     .038 1969.0819_2:40  125.30  n/a     .000
00703>                  SUM=     5.0 01:J6            148.64    .448 1969.0819_3:30  127.07  n/a     .000
00704> R1969:C00033-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00705>     SAVE HYD              5.0 01:J6            148.64    .448 1969.0819_3:30  127.07  n/a     .000
00706>       fname :J6.1969
00707>       remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
00708> R1969:C00034-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00709>     ROUTE CHANNEL   ->    5.0 02:J6             148.64    .448 1969.0819_3:30  127.07  n/a     .000
00710>       [RDT= 5.00] out<-     5.0 01:R6             148.64    .445 1969.0819_3:40  127.07  n/a     .000
00711>       [L/S/n=  323./ .440/.035]
00712>       {Vmax=  .559:Dmax=  .291}
00713> R1969:C00035-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00714>     CONTINUOUS NASHYD     5.0 01:SOUTH-4        14.99     .048 1969.0819_3:00  125.15 .300     .000
00715>       [CN= 39.5: N= 3.00: Tp= 1.23]
00716>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
00717>       [InterEventTime=  12.00]
00718> R1969:C00036-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00719>     ADD HYD               5.0 02:R6            148.64     .445 1969.0819_3:40  127.07  n/a     .000
00720>                   +       5.0 02:SOUTH-4        14.99     .048 1969.0819_3:00  125.15  n/a     .000
```

```
00721>                  SUM=     5.0 01:Total        163.63     .485 1969.0819_ 3:35  126.89  n/a     .000
00722> #=============================================================================
00723> #=============================================================================
00724> ###############################################################################
00725> # CONTINUOUS RAINFALL DATA
00726> ###############################################################################
00727> #*****************************************************************************
00728> # STORMS
00729> #*****************************************************************************
00730>  ** END OF RUN : 1969
00731>
00732> *******************************************************************************
00733>
00734>
00735>
00736>
00737>
00738>  RUN#:COMMAND#
00739> R1970:C00001-------------------------------------------------------------------------------
00740>      START
00741>      [TZERO =    .00 hrs on 19700401]
00742>      [METOUT=   2    (1=imperial, 2=metric output)]
00743>      [NSTORM=   0 ]
00744>      [NRUN  = 1970 ]
00745> #*****************************************************************************
00746> #  SWMHYMO  / INPUT DATA FILE
00747> #*****************************************************************************
00748> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
00749> #  Date        : 04-28-2021
00750> #  Modeller    : [J.B]
00751> #  Company     : JFSAinc.
00752> #  License #   : 2549237
00753> #*****************************************************************************
00754> #*****************************************************************************
00755> #*****************************************************************************
00756> # Ottawa International Airport - April 1st to October 31st
00757> R1970:C00002-------------------------------------------------------------------------------
00758>  *  READ AES DATA
00759>      [Filename  = YOW_1967_2007.123                                                  ]
00760>      [Start_date= 1970.0401: End_date= 1970.1031]
00761>      [DT= 60.min: Length= 5136.hrs: WetHrs=  281: DryHrs= 4855: PTOT= 477.80}
00762>      Maximum average rainfall intensities over
00763>        1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00764>       35.30    18.30    12.20     6.10     3.63     1.81     1.21     1.46      .99    mm/hr
00765>       35.30    36.60    36.60    36.60    43.50    43.50    43.50    69.90    71.20    mm
00766>      19700926 19700926 19700926 19700927 19700817 19700817 19700818 19700926 19700927  date
00767>      Number of rainfall events per following interevent time
00768>        1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00769>         118       99       86       69       59       49       44       33       22
00770>      Number of events with at least the following durations
00771>        1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00772>         117       66       30        9        2        0        0        0        0
00773> R1970:C00003-------------------------------------------------------------------------------
00774>      COMPUTE API
00775>      [APIini= 50.00: APIkdy=  .9000: APIkdt=  .9956]
00776>      {APImax= 76.00: APIavg= 22.75: APImin=  2.66}
00777> R1970:C00004-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00778>      CONTINUOUS NASHYD     5.0 01:NORTH-1      34.70     .054 1970.0927_ 1:00  150.39 .315     .000
00779>        [CN= 38.1: N= 3.00: Tp= 4.12]
00780>        [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
00781>        [InterEventTime=  12.00]
00782> R1970:C00005-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00783>      CONTINUOUS NASHYD     5.0 01:NORTH-2      12.44     .083 1970.0926_22:10  151.68 .317     .000
00784>        [CN= 53.0: N= 3.00: Tp= 1.29]
00785>        [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
00786>        [InterEventTime=  12.00]
00787> R1970:C00006-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00788>      CONTINUOUS NASHYD     5.0 01:HWY-1         2.36     .040 1970.0926_22:00  157.23 .329     .000
00789>        [CN= 81.7: N= 3.00: Tp= 1.21]
00790>        [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
00791>        [InterEventTime=  12.00]
00792> R1970:C00007-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00793>      ADD HYD               5.0 02:NORTH-1      34.70     .054 1970.0927_ 1:00  150.39  n/a     .000
00794>                        +     5.0 02:NORTH-2      12.44     .083 1970.0926_22:10  151.68  n/a     .000
00795>                        +     5.0 02:HWY-1         2.36     .040 1970.0926_22:00  157.23  n/a     .000
00796>                    SUM=      5.0 01:J1           49.51     .152 1970.0926_22:15  151.04  n/a     .000
00797> R1970:C00008-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00798>      ROUTE CHANNEL   ->    5.0 02:J1           49.51     .152 1970.0926_22:15  151.04  n/a     .000
00799>  *   [RDT= 5.00] out<-     5.0 01:R1           49.51     .148 1970.0926_22:30  151.04  n/a     .000
00800>        [L/S/n=  478./ .440/.035]
00801>        {Vmax=  .441:Dmax=  .197}
00802> R1970:C00009-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00803>      CONTINUOUS NASHYD     5.0 01:INT-1         4.39     .030 1970.0926_22:30  152.59 .319     .000
00804>        [CN= 60.4: N= 3.00: Tp= 1.66]
00805>        [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
00806>        [InterEventTime=  12.00]
00807> R1970:C00010-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00808>      CONTINUOUS NASHYD     5.0 01:INT-2         3.61     .026 1970.0926_21:45  151.11 .316     .000
00809>        [CN= 47.4: N= 3.00: Tp=  .95]
00810>        [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
00811>        [InterEventTime=  12.00]
00812> R1970:C00011-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00813>      CONTINUOUS NASHYD     5.0 01:A3A           3.84     .027 1970.0926_22:20  152.32 .319     .000
00814>        [CN= 58.4: N= 3.00: Tp= 1.46]
00815>        [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
00816>        [InterEventTime=  12.00]
00817> R1970:C00012-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00818>  *   CONTINUOUS STANDHYD    5.0 01:Pond3-In      1.21     .095 1970.0926_21:00  252.22 .528     .000
00819>        [XIMP=.64:TIMP=.75]
00820>        [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  Fe=***]
00821>        [Pervious    area: IAper= 4.67:SLPP=2.50:LGP= 100.:MNP=.250:SCP=   .0]
00822>        [Impervious  area: IAimp= 1.57:SLPI=2.50:LGI=  50.:MNI=.013:SCI=   .0]
00823>        [IaRECimp=  12.00: IaRECper=  12.00]
00824> R1970:C00013-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00825>      ROUTE RESERVOIR ->    5.0 02:Pond3-In      1.21     .095 1970.0926_21:00  252.22  n/a     .000
00826>                          out <=    5.0 01:Pond3-Out     1.21     .003 1970.0926_22:05  252.20  n/a     .000
00827>                overflow <=     5.0 03:Pond3-Over      .00     .000 1970.0401_ 0:00    .00  n/a     .000
00828>        {MxStoUsed=.3924E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=     0, TotDurOvf=    0.hrs}
00829> R1970:C00014-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00830>      ADD HYD               5.0 02:Pond3-Over      .00     .000 1970.0401_ 0:00    .00  n/a     .000
00831>                        +     5.0 02:Pond3-Out     1.21     .003 1970.0926_22:05  252.20  n/a     .000
00832>                    SUM=      5.0 01:Pond3-Ditc    1.21     .003 1970.0926_22:05  252.20  n/a     .000
00833> R1970:C00015-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00834>      ROUTE CHANNEL   ->    5.0 02:Pond3-Out     1.21     .003 1970.0926_22:05  252.20  n/a     .000
00835>        [RDT= 5.00] out<-     5.0 01:A3C-R         1.21     .003 1970.0927_ 5:50  252.20  n/a     .000
00836>        [L/S/n=  500./ .140/.035]
00837>        {Vmax=  .075:Dmax=  .039}
00838> R1970:C00016-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00839>      CONTINUOUS NASHYD     5.0 01:INT-3         5.71     .062 1970.0926_21:45  152.32 .319     .000
00840>        [CN= 58.5: N= 3.00: Tp=  .89]
00841>        [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
00842>        [InterEventTime=  12.00]
00843> R1970:C00017-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00844>      ADD HYD               5.0 02:R1           49.51     .148 1970.0926_22:30  151.04  n/a     .000
00845>                        +     5.0 02:INT-1         4.39     .030 1970.0926_22:30  152.59  n/a     .000
00846>                        +     5.0 02:INT-2         3.61     .026 1970.0926_21:45  151.11  n/a     .000
00847>                        +     5.0 02:INT-3         5.71     .062 1970.0926_21:45  152.32  n/a     .000
00848>                        +     5.0 02:A3A           3.84     .027 1970.0926_22:20  152.32  n/a     .000
00849>                        +     5.0 02:A3C-R         1.21     .003 1970.0927_ 5:50  252.20  n/a     .000
00850>                    SUM=      5.0 01:J2           68.26     .275 1970.0926_22:15  153.10  n/a     .000
00851> R1970:C00018-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00852>      ROUTE CHANNEL   ->    5.0 02:J2           68.26     .275 1970.0926_22:15  153.10  n/a     .000
00853>        [RDT= 5.00] out<-     5.0 01:R2           68.26     .272 1970.0926_22:20  153.10  n/a     .000
00854>        [L/S/n=  359./ .560/.035]
00855>        {Vmax=  .512:Dmax=  .160}
00856> R1970:C00019-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00857>      CONTINUOUS NASHYD     5.0 01:A1A          21.43     .064 1970.0926_22:35  150.20 .314     .000
00858>        [CN= 36.1: N= 3.00: Tp= 1.08]
00859>        [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
00860>        [InterEventTime=  12.00]
00861> R1970:C00020-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00862>      CONTINUOUS STANDHYD    5.0 01:Pond1-In     10.00     .560 1970.0926_21:00  180.66 .378     .000
00863>        [XIMP=.38:TIMP=.74]
00864>        [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  Fe=***]
00865>        [Pervious    area: IAper= 4.67:SLPP=2.00:LGP= 500.:MNP=.250:SCP=   .0]
00866>        [Impervious  area: IAimp= 1.57:SLPI=1.50:LGI= 250.:MNI=.013:SCI=   .0]
00867>        [IaRECimp=  12.00: IaRECper=  12.00]
00868> R1970:C00021-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00869>      ROUTE RESERVOIR ->    5.0 02:Pond1-In     10.00     .560 1970.0926_21:00  180.66  n/a     .000
00870>                          out <=    5.0 01:Pond1-Out     10.00     .030 1970.0926_23:10  180.66  n/a     .000
00871>                overflow <=     5.0 03:Pond1-Over      .00     .000 1970.0401_ 0:00    .00  n/a     .000
00872>        {MxStoUsed=.2312E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=     0, TotDurOvf=    0.hrs}
00873> R1970:C00022-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00874>      CONTINUOUS NASHYD     5.0 01:A2           9.14     .110 1970.0926_21:55  153.83 .322     .000
00875>        [CN= 68.4: N= 3.00: Tp= 1.12]
00876>        [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
00877>        [InterEventTime=  12.00]
00878> R1970:C00023-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00879>      ADD HYD               5.0 02:R2           68.26     .272 1970.0926_22:20  153.10  n/a     .000
00880>                        +     5.0 02:A2A          21.43     .064 1970.0926_22:35  150.20  n/a     .000
00881>                        +     5.0 02:A2           9.14     .110 1970.0926_21:55  153.83  n/a     .000
00882>                        +     5.0 02:Pond1-Over     .00     .000 1970.0401_ 0:00    .00  n/a     .000
00883>                        +     5.0 02:Pond1-Out     10.00     .030 1970.0926_23:10  180.66  n/a     .000
00884>                    SUM=      5.0 01:J3          108.84     .466 1970.0926_22:15  155.11  n/a     .000
00885> R1970:C00024-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00886>      ROUTE CHANNEL   ->    5.0 02:J3          108.84     .466 1970.0926_22:15  155.11  n/a     .000
00887>        [RDT= 5.00] out<-     5.0 01:R3          108.84     .452 1970.0926_22:30  155.11  n/a     .000
00888>        [L/S/n=  396./ .305/.035]
00889>        {Vmax=  .421:Dmax=  .323}
00890> R1970:C00025-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00891>      CONTINUOUS NASHYD     5.0 01:SOUTH-1      20.21     .066 1970.0926_22:15  150.11 .314     .000
00892>        [CN= 35.5: N= 3.00: Tp= 1.40]
00893>        [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
00894>        [InterEventTime=  12.00]
00895> R1970:C00026-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00896>      ADD HYD               5.0 02:R3          108.84     .452 1970.0926_22:30  155.11  n/a     .000
00897>                        +     5.0 02:SOUTH-1      20.21     .066 1970.0926_22:15  150.11  n/a     .000
00898>                    SUM=      5.0 01:J4          129.05     .517 1970.0926_22:30  154.33  n/a     .000
00899> R1970:C00027-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00900>      ROUTE CHANNEL   ->    5.0 02:J4          129.05     .517 1970.0926_22:30  154.33  n/a     .000
00901>        [RDT= 5.00] out<-     5.0 01:R4          129.05     .507 1970.0926_22:45  154.33  n/a     .000
00902>        [L/S/n=  482./ .410/.035]
00903>        {Vmax=  .562:Dmax=  .315}
00904> R1970:C00028-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00905>      CONTINUOUS NASHYD     5.0 01:SOUTH-2      11.61     .055 1970.0926_21:50  150.20 .314     .000
00906>        [CN= 36.7: N= 3.00: Tp=  .96]
00907>        [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
00908>        [InterEventTime=  12.00]
00909> R1970:C00029-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00910>      ADD HYD               5.0 02:R4          129.05     .507 1970.0926_22:45  154.33  n/a     .000
00911>                        +     5.0 02:SOUTH-2      11.61     .055 1970.0926_21:50  150.20  n/a     .000
00912>                    SUM=      5.0 01:J5          140.66     .543 1970.0926_22:40  153.99  n/a     .000
00913> R1970:C00030-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00914>      ROUTE CHANNEL   ->    5.0 02:J5          140.66     .543 1970.0926_22:40  153.99  n/a     .000
00915>        [RDT= 5.00] out<-     5.0 01:R5          140.66     .541 1970.0926_22:45  153.99  n/a     .000
00916>        [L/S/n=  181./ .500/.035]
00917>        {Vmax=  .532:Dmax=  .281}
00918> R1970:C00031-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00919>      CONTINUOUS NASHYD     5.0 01:SOUTH-3       7.98     .051 1970.0926_21:45  150.69 .315     .000
00920>        [CN= 42.6: N= 3.00: Tp=  .89]
00921>        [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
00922>        [InterEventTime=  12.00]
00923> R1970:C00032-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00924>      ADD HYD               5.0 02:R5          140.66     .541 1970.0926_22:45  153.99  n/a     .000
00925>                        +     5.0 02:SOUTH-3       7.98     .051 1970.0926_21:45  150.69  n/a     .000
00926>                    SUM=      5.0 01:J6          148.64     .570 1970.0926_22:40  153.81  n/a     .000
00927> R1970:C00033-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00928>      SAVE HYD              5.0 01:J6          148.64     .570 1970.0926_22:40  153.81  n/a     .000
00929>        fname:.J6.1970
00930>        remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
00931> R1970:C00034-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00932>      ROUTE CHANNEL   ->    5.0 02:J6          148.64     .570 1970.0926_22:40  153.81  n/a     .000
00933>        [RDT= 5.00] out<-     5.0 01:R6          148.64     .566 1970.0926_22:45  153.81  n/a     .000
00934>        [L/S/n=  323./ .440/.035]
00935>        {Vmax=  .591:Dmax=  .325}
00936> R1970:C00035-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00937>      CONTINUOUS NASHYD     5.0 01:SOUTH-4      14.99     .064 1970.0926_22:05  150.39 .315     .000
00938>        [CN= 39.5: N= 3.00: Tp= 1.23]
00939>        [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
00940>        [InterEventTime=  12.00]
00941> R1970:C00036-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00942>      ADD HYD               5.0 02:R6          148.64     .566 1970.0926_22:45  153.81  n/a     .000
00943>                        +     5.0 02:SOUTH-4      14.99     .064 1970.0926_22:05  150.39  n/a     .000
00944>                    SUM=      5.0 01:Total       163.63     .619 1970.0926_22:45  153.50  n/a     .000
00945> #=============================================================================
00946> #=============================================================================
00947> ###############################################################################
00948> # CONTINUOUS RAINFALL DATA
00949> ###############################################################################
00950> #*****************************************************************************
00951> # STORMS
00952> #*****************************************************************************
00953>  ** END OF RUN : 1970
00954>
00955> *******************************************************************************
00956>
00957>
00958>
00959>
00960>
00961>  RUN#:COMMAND#
00962> R1971:C00001-------------------------------------------------------------------------------
00963>      START
00964>      [TZERO =    .00 hrs on 19710401]
00965>      [METOUT=   2    (1=imperial, 2=metric output)]
00966>      [NSTORM=   0 ]
00967>      [NRUN  = 1971 ]
00968> #*****************************************************************************
00969> #  SWMHYMO  / INPUT DATA FILE
00970> #*****************************************************************************
00971> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
00972> #  Date        : 04-28-2021
00973> #  Modeller    : [J.B]
00974> #  Company     : JFSAinc.
00975> #  License #   :  2549237
00976> #*****************************************************************************
00977> #*****************************************************************************
00978> #*****************************************************************************
00979> # Ottawa International Airport - April 1st to October 31st
00980> R1971:C00002-------------------------------------------------------------------------------
00981>      READ AES DATA
00982>      [Filename  = YOW_1967_2007.123                                                  ]
00983>      [Start_date= 1971.0401: End_date= 1971.1031]
00984>      [DT= 60.min: Length= 5136.hrs: WetHrs=  370: DryHrs= 4766: PTOT= 480.90}
00985>      Maximum average rainfall intensities over
00986>        1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00987>       24.60    16.60    11.67     6.13     3.09     1.56     1.06      .79      .54    mm/hr
00988>       24.60    33.20    35.00    36.80    37.10    37.40    38.00    38.00    38.90    mm
00989>      19710810 19710810 19710810 19710810 19710810 19710810 19710811 19710812 19710830  date
00990>      Number of rainfall events per following interevent time
00991>        1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00992>         136      107       97       79       60       51       42       33       25
00993>      Number of events with at least the following durations
00994>        1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00995>         135       74       54       19        2        0        0        0        0
00996> R1971:C00003-------------------------------------------------------------------------------
00997>      COMPUTE API
00998>      [APIini= 50.00: APIkdy=  .9000: APIkdt=  .9956]
00999>      {APImax= 62.22: APIavg= 23.19: APImin=  8.21}
01000> R1971:C00004-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01001>      CONTINUOUS NASHYD     5.0 01:NORTH-1      34.70     .042 1971.0810_19:20  154.97 .322     .000
01002>        [CN= 38.1: N= 3.00: Tp= 4.12]
01003>        [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
01004>        [InterEventTime=  12.00]
01005> R1971:C00005-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01006>      CONTINUOUS NASHYD     5.0 01:NORTH-2      12.44     .059 1971.0810_16:40  155.25 .323     .000
01007>        [CN= 53.0: N= 3.00: Tp= 1.29]
01008>        [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
01009>        [InterEventTime=  12.00]
01010> R1971:C00006-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01011>      CONTINUOUS NASHYD     5.0 01:HWY-1         2.36     .030 1971.0810_16:30  156.69 .326     .000
01012>        [CN= 81.7: N= 3.00: Tp= 1.21]
01013>        [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
01014>        [InterEventTime=  12.00]
01015> R1971:C00007-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01016>      ADD HYD               5.0 02:NORTH-1      34.70     .042 1971.0810_19:20  154.97  n/a     .000
01017>                        +     5.0 02:NORTH-2      12.44     .059 1971.0810_16:40  155.25  n/a     .000
01018>                        +     5.0 02:HWY-1         2.36     .030 1971.0810_16:30  156.69  n/a     .000
01019>                    SUM=      5.0 01:J1           49.51     .114 1971.0810_16:45  155.13  n/a     .000
01020> R1971:C00008-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01021>      ROUTE CHANNEL   ->    5.0 02:J1           49.51     .114 1971.0810_16:45  155.13  n/a     .000
01022>  *   [RDT= 5.00] out<-     5.0 01:R1           49.51     .111 1971.0810_17:00  155.12  n/a     .000
01023>        [L/S/n=  478./ .440/.035]
01024>        {Vmax=  .408:Dmax=  .175}
01025> R1971:C00009-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01026>      CONTINUOUS NASHYD     5.0 01:INT-1         4.39     .022 1971.0810_17:00  155.46 .323     .000
01027>        [CN= 60.4: N= 3.00: Tp= 1.66]
01028>        [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
01029>        [InterEventTime=  12.00]
01030> R1971:C00010-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01031>      CONTINUOUS NASHYD     5.0 01:INT-2         3.61     .017 1971.0810_16:25  155.13 .323     .000
01032>        [CN= 47.4: N= 3.00: Tp=  .95]
01033>        [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
01034>        [InterEventTime=  12.00]
01035> R1971:C00011-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01036>      CONTINUOUS NASHYD     5.0 01:A3A           3.84     .020 1971.0810_16:45  155.40 .323     .000
01037>        [CN= 58.4: N= 3.00: Tp= 1.46]
01038>        [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
01039>        [InterEventTime=  12.00]
01040> R1971:C00012-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01041>  *   CONTINUOUS STANDHYD    5.0 01:Pond3-In      1.21     .060 1971.0810_15:00  240.70 .501     .000
01042>        [XIMP=.64:TIMP=.75]
01043>        [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  Fe=***]
01044>        [Pervious    area: IAper= 4.67:SLPP=2.50:LGP= 100.:MNP=.250:SCP=   .0]
01045>        [Impervious  area: IAimp= 1.57:SLPI=2.50:LGI=  50.:MNI=.013:SCI=   .0]
01046>        [IaRECimp=  12.00: IaRECper=  12.00]
01047> R1971:C00013-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01048>      ROUTE RESERVOIR ->    5.0 02:Pond3-In      1.21     .060 1971.0810_15:00  240.69  n/a     .000
01049>                          out <=    5.0 01:Pond3-Out     1.21     .003 1971.0810_16:05  240.68  n/a     .000
01050>                overflow <=     5.0 03:Pond3-Over      .00     .000 1971.0401_ 0:00    .00  n/a     .000
01051>        {MxStoUsed=.3112E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=     0, TotDurOvf=    0.hrs}
01052> R1971:C00014-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01053>      ADD HYD               5.0 02:Pond3-Over      .00     .000 1971.0401_ 0:00    .00  n/a     .000
01054>                        +     5.0 02:Pond3-Out     1.21     .003 1971.0810_16:05  240.68  n/a     .000
01055>                    SUM=      5.0 01:Pond3-Ditc    1.21     .003 1971.0810_16:05  240.68  n/a     .000
01056> R1971:C00015-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01057>      ROUTE CHANNEL   ->    5.0 02:Pond3-Out     1.21     .003 1971.0810_16:05  240.68  n/a     .000
01058>        [RDT= 5.00] out<-     5.0 01:A3C-R         1.21     .003 1971.0811_ 0:20  240.68  n/a     .000
01059>        [L/S/n=  500./ .140/.035]
01060>        {Vmax=  .075:Dmax=  .039}
01061> R1971:C00016-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01062>      CONTINUOUS NASHYD     5.0 01:INT-3         5.71     .040 1971.0810_16:20  155.40 .323     .000
01063>        [CN= 58.5: N= 3.00: Tp=  .89]
01064>        [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
01065>        [InterEventTime=  12.00]
01066> R1971:C00017-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01067>      ADD HYD               5.0 02:R1           49.51     .111 1971.0810_17:00  155.12  n/a     .000
01068>                        +     5.0 02:INT-1         4.39     .022 1971.0810_17:00  155.46  n/a     .000
01069>                        +     5.0 02:INT-2         3.61     .017 1971.0810_16:25  155.13  n/a     .000
01070>                        +     5.0 02:INT-3         5.71     .040 1971.0810_16:20  155.40  n/a     .000
01071>                        +     5.0 02:A3A           3.84     .020 1971.0810_16:45  155.40  n/a     .000
01072>                        +     5.0 02:A3C-R         1.21     .003 1971.0811_ 0:20  240.68  n/a     .000
01073>                    SUM=      5.0 01:J2           68.26     .203 1971.0810_16:45  156.69  n/a     .000
01074> R1971:C00018-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01075>      ROUTE CHANNEL   ->    5.0 02:J2           68.26     .203 1971.0810_16:45  156.69  n/a     .000
01076>        [RDT= 5.00] out<-     5.0 01:R2           68.26     .200 1971.0810_16:50  156.69  n/a     .000
01077>        [L/S/n=  359./ .560/.035]
01078>        {Vmax=  .455:Dmax=  .138}
01079> R1971:C00019-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01080>      CONTINUOUS NASHYD     5.0 01:A1A          21.43     .046 1971.0810_17:00  154.93 .322     .000
```

```
01081>       [CN= 36.1: N= 3.00: Tp= 1.68]
01082>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
01083>       [InterEventTime=  12.00]
01084> R1971:C00020-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01085>     CONTINUOUS STANDHYD   5.0 01:Pond1-In      10.00     .345 1971.0810_15:00  164.74 .343     .000
01086>       [XIMP=.38:TIMP=.74]
01087>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  Fe=****]
01088>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP= 500.:MNP=.250:SCP=   .0]
01089>       [Impervious   area: IAimp= 1.57:SLPI=1.50:LGI=  250.:MNI=.013:SCI=   .0]
01090>       [IaRECimp=  12.00: IaRECper=  12.00]
01091> R1971:C00021-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01092>     ROUTE RESERVOIR ->    5.0 02:Pond1-In      10.00     .345 1971.0810_15:00  164.74  n/a     .000
01093>                 out <=    5.0 01:Pond1-Out     10.00     .029 1971.0810_17:35  164.74  n/a     .000
01094>           overflow <=    5.0 03:Pond1-Over      .00     .000 1971.0401_ 0:00     .00  n/a     .000
01095>       {MxStoUsed=.1941E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
01096> R1971:C00022-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01097>     CONTINUOUS NASHYD     5.0 01:A2            9.14     .078 1971.0810_16:30  155.75 .324     .000
01098>       [CN= 68.4: N= 3.00: Tp= 1.12]
01099>       [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
01100>       [InterEventTime=  12.00]
01101> R1971:C00023-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01102>     ADD HYD               5.0 02:R2           68.26     .200 1971.0810_16:50  156.69  n/a     .000
01103>                     +     5.0 02:A1A          21.43     .046 1971.0810_17:00  154.93  n/a     .000
01104>                     +     5.0 02:A2            9.14     .078 1971.0810_16:30  155.75  n/a     .000
01105>                     +     5.0 02:Pond1-Over     .00     .000 1971.0401_ 0:00     .00  n/a     .000
01106>                     +     5.0 02:Pond1-Out     10.00     .029 1971.0810_17:35  164.74  n/a     .000
01107>                   SUM=    5.0 01:J3           108.84     .348 1971.0810_16:45  157.00  n/a     .000
01108> R1971:C00024-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01109>     ROUTE CHANNEL     ->    5.0 02:J3           108.84     .348 1971.0810_16:45  157.00  n/a     .000
01110>       [RDT= 5.00] out<-     5.0 01:R3           108.84     .338 1971.0810_17:05  157.00  n/a     .000
01111>       [L/S/n=  396./ .305/.035]
01112>       {Vmax=  .401:Dmax=  .290}
01113> R1971:C00025-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01114>     CONTINUOUS NASHYD     5.0 01:SOUTH-1      20.21     .047 1971.0810_16:45  154.91 .322     .000
01115>       [CN= 35.5: N= 3.00: Tp= 1.40]
01116>       [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
01117>       [InterEventTime=  12.00]
01118> R1971:C00026-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01119>     ADD HYD               5.0 02:R3           108.84     .338 1971.0810_17:05  157.00  n/a     .000
01120>                     +     5.0 02:SOUTH-1      20.21     .047 1971.0810_16:45  154.91  n/a     .000
01121>                   SUM=    5.0 01:J4           129.05     .384 1971.0810_17:00  156.67  n/a     .000
01122> R1971:C00027-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01123>     ROUTE CHANNEL     ->    5.0 02:J4           129.05     .384 1971.0810_17:00  156.67  n/a     .000
01124>       [RDT= 5.00] out<-     5.0 01:R4           129.05     .377 1971.0810_17:15  156.67  n/a     .000
01125>       [L/S/n=  482./ .410/.035]
01126>       {Vmax=  .528:Dmax=  .277}
01127> R1971:C00028-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01128>     CONTINUOUS NASHYD     5.0 01:SOUTH-2      11.61     .036 1971.0810_16:25  154.93 .322     .000
01129>       [CN= 36.7: N= 3.00: Tp=  .96]
01130>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
01131>       [InterEventTime=  12.00]
01132> R1971:C00029-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01133>     ADD HYD               5.0 02:R4           129.05     .377 1971.0810_17:15  156.67  n/a     .000
01134>                     +     5.0 02:SOUTH-2      11.61     .036 1971.0810_16:25  154.93  n/a     .000
01135>                   SUM=    5.0 01:J5           140.66     .402 1971.0810_17:10  156.53  n/a     .000
01136> R1971:C00030-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01137>     ROUTE CHANNEL     ->    5.0 02:J5           140.66     .402 1971.0810_17:10  156.53  n/a     .000
01138>       [RDT= 5.00] out<-     5.0 01:R5           140.66     .401 1971.0810_17:15  156.53  n/a     .000
01139>       [L/S/n=  181./ .500/.035]
01140>       {Vmax=  .503:Dmax=  .256}
01141> R1971:C00031-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01142>     CONTINUOUS NASHYD     5.0 01:SOUTH-3       7.98     .033 1971.0810_16:20  155.04 .322     .000
01143>       [CN= 42.6: N= 3.00: Tp=  .89]
01144>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
01145>       [InterEventTime=  12.00]
01146> R1971:C00032-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01147>     ADD HYD               5.0 02:R5           140.66     .401 1971.0810_17:15  156.53  n/a     .000
01148>                     +     5.0 02:SOUTH-3       7.98     .033 1971.0810_16:20  155.04  n/a     .000
01149>                   SUM=    5.0 01:J6           148.64     .421 1971.0810_17:10  156.45  n/a     .000
01150> R1971:C00033-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01151>     SAVE HYD              5.0 01:J6           148.64     .421 1971.0810_17:10  156.45  n/a     .000
01152>       fname :J6.1971
01153>       remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
01154> R1971:C00034-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01155>     ROUTE CHANNEL     ->    5.0 02:J6           148.64     .421 1971.0810_17:10  156.45  n/a     .000
01156>       [RDT= 5.00] out<-     5.0 01:R6           148.64     .418 1971.0810_17:20  156.45  n/a     .000
01157>       [L/S/n=  323./ .440/.035]
01158>       {Vmax=  .553:Dmax=  .284}
01159> R1971:C00035-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01160>     CONTINUOUS NASHYD     5.0 01:SOUTH-4      14.99     .044 1971.0810_16:35  154.97 .322     .000
01161>       [CN= 39.5: N= 3.00: Tp= 1.23]
01162>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
01163>       [InterEventTime=  12.00]
01164> R1971:C00036-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01165>     ADD HYD               5.0 02:R6           148.64     .418 1971.0810_17:20  156.45  n/a     .000
01166>                     +     5.0 02:SOUTH-4      14.99     .044 1971.0810_16:35  154.97  n/a     .000
01167>                   SUM=    5.0 01:Total        163.63     .456 1971.0810_17:15  156.31  n/a     .000
01168> ##############################################################################
01169> ##############################################################################
01170> ##############################################################################
01171> # CONTINUOUS RAINFALL DATA
01172> ##############################################################################
01173> #**************************************************************************
01174> # STORMS
01175> #**************************************************************************
01176>  ** END OF RUN : 1971
01177>
01178>  ************************************************************************************************************
01179>
01180>
01181>
01182>
01183>
01184>  RUN#:COMMAND#
01185> R1972:C00001-----------------------------------------------------------------------------------------------
01186>      START
01187>       [TZERO =    .00 hrs on 19720401]
01188>       [METOUT=   2   (1=imperial, 2=metric output)]
01189>       [NSTORM=   0 ]
01190>       [NRUN  = 1972 ]
01191> #**************************************************************************
01192> #  SWMHYMO  / INPUT DATA FILE
01193> #**************************************************************************
01194> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
01195> #  Date        : 04-28-2021
01196> #  Modeller    : [J.B]
01197> #  Company     : JFSAinc.
01198> #  License #   : 2549237
01199> #**************************************************************************
01200> #**************************************************************************
01201> #**************************************************************************
01202> # Ottawa International Airport - April 1st to October 31st
01203> R1972:C00002-----------------------------------------------------------------------------------------------
01204>      READ AES DATA
01205>       [Filename  = YOW_1967_2007.123                                    ]
01206>       [Start_date= 1972.0401: End_date= 1972.1031]
01207>       {DT= 60.min: Length= 5136.hrs: WetHrs=  434: DryHrs= 4702: PTOT= 722.10}
01208>       Maximum average rainfall intensities over
01209>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
01210>        37.30    19.15    12.97     8.15     4.50     2.53     2.00     1.71     1.17    mm/hr
01211>        37.30    38.30    38.90    48.90    54.00    60.70    72.10    82.20    84.20    mm
01212>       19720712 19720712 19720807 19720808 19720808 19720808 19720808 19720713 19720714 19720715  date
01213>       Number of rainfall events per following interevent time
01214>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
01215>          153      120      111       78       69       53       38       34       24
01216>       Number of events with at least the following durations
01217>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
01218>          152       88       53       19        4        0        0        0        0
01219> R1972:C00003-----------------------------------------------------------------------------------------------
01220>      COMPUTE API
01221>       [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
01222>       {APImax=108.89: APIavg= 32.94: APImin=  4.26}
01223> R1972:C00004-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01224>     CONTINUOUS NASHYD     5.0 01:NORTH-1      34.70     .125 1972.0808_ 4:30  304.41 .422     .000
01225>       [CN= 38.1: N= 3.00: Tp= 4.12]
01226>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
01227>       [InterEventTime=  12.00]
01228> R1972:C00005-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01229>     CONTINUOUS NASHYD     5.0 01:NORTH-2      12.44     .130 1972.0807_23:55  305.77 .423     .000
01230>       [CN= 53.0: N= 3.00: Tp= 1.29]
01231>       [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
01232>       [InterEventTime=  12.00]
01233> R1972:C00006-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01234>     CONTINUOUS NASHYD     5.0 01:HWY-1         2.36     .055 1972.0807_23:50  312.29 .432     .000
01235>       [CN= 81.7: N= 3.00: Tp= 1.21]
01236>       [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
01237>       [InterEventTime=  12.00]
01238> R1972:C00007-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01239>     ADD HYD               5.0 02:NORTH-1      34.70     .125 1972.0808_ 4:30  304.41  n/a     .000
01240>                     +     5.0 02:NORTH-2      12.44     .130 1972.0807_23:55  305.77  n/a     .000
01241>                     +     5.0 02:HWY-1         2.36     .055 1972.0807_23:50  312.29  n/a     .000
01242>                   SUM=    5.0 01:J1           49.51     .233 1972.0808_ 0:05  305.13  n/a     .000
01243> R1972:C00008-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01244>     ROUTE CHANNEL     ->    5.0 02:J1           49.51     .233 1972.0808_ 0:05  305.13  n/a     .000
01245> *   [RDT= 5.00] out<-     5.0 01:R1           49.51     .229 1972.0808_ 0:20  305.13  n/a     .000
01246>       [L/S/n=  478./ .440/.035]
01247>       {Vmax=  .497:Dmax=  .237}
01248> R1972:C00009-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01249>     CONTINUOUS NASHYD     5.0 01:INT-1         4.39     .046 1972.0808_ 0:20  306.73 .425     .000
01250>       [CN= 60.4: N= 3.00: Tp= 1.66]
01251>       [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
01252>       [InterEventTime=  12.00]
01253> R1972:C00010-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01254>     CONTINUOUS NASHYD     5.0 01:INT-2         3.61     .040 1972.0807_23:40  305.17 .423     .000
01255>       [CN= 47.4: N= 3.00: Tp=  .95]
01256>       [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
01257>       [InterEventTime=  12.00]
01258> R1972:C00011-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01259>     CONTINUOUS NASHYD     5.0 01:A3A           3.84     .042 1972.0808_ 0:05  306.44 .424     .000
01260>       [CN= 58.4: N= 3.00: Tp= 1.46]
01261>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
01262>       [InterEventTime=  12.00]
01263> R1972:C00012-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01264> *  CONTINUOUS STANDHYD   5.0 01:Pond3-In      1.21     .102 1972.0712_ 4:00  400.18 .554     .000
01265>       [XIMP=.64:TIMP=.75]
01266>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  Fe=****]
01267>       [Pervious     area: IAper= 4.67:SLPP=2.50:LGP= 100.:MNP=.250:SCP=   .0]
01268>       [Impervious   area: IAimp= 1.57:SLPI=2.50:LGI=  50.:MNI=.013:SCI=   .0]
01269>       [IaRECimp=  12.00: IaRECper=  12.00]
01270> R1972:C00013-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01271>     ROUTE RESERVOIR ->    5.0 02:Pond3-In      1.21     .102 1972.0712_ 4:00  400.18  n/a     .000
01272>                 out <=    5.0 01:Pond3-Out     1.21     .003 1972.0808_ 2:15  400.14  n/a     .000
01273>           overflow <=    5.0 03:Pond3-Over      .00     .000 1972.0401_ 0:00     .00  n/a     .000
01274>       {MxStoUsed=.4920E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
01275> R1972:C00014-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01276>     ADD HYD               5.0 02:Pond3-Over      .00     .000 1972.0401_ 0:00     .00  n/a     .000
01277>                     +     5.0 02:Pond3-Out     1.21     .003 1972.0808_ 2:15  400.14  n/a     .000
01278>                   SUM=    5.0 01:Pond3-Ditc    1.21     .003 1972.0808_ 2:15  400.14  n/a     .000
01279> R1972:C00015-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01280>     ROUTE CHANNEL     ->    5.0 02:Pond3-Out     1.21     .003 1972.0808_ 2:15  400.14  n/a     .000
01281>       [RDT= 5.00] out<-     5.0 01:A3C-R         1.21     .003 1972.0808_ 4:20  400.14  n/a     .000
01282>       [L/S/n=  500./ .140/.035]
01283>       {Vmax=  .080:Dmax=  .041}
01284> R1972:C00016-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01285>     CONTINUOUS NASHYD     5.0 01:INT-3         5.71     .093 1972.0807_23:35  306.44 .424     .000
01286>       [CN= 58.5: N= 3.00: Tp=  .89]
01287>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
01288>       [InterEventTime=  12.00]
01289> R1972:C00017-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01290>     ADD HYD               5.0 02:R1           49.51     .229 1972.0808_ 0:20  305.13  n/a     .000
01291>                     +     5.0 02:INT-1         4.39     .046 1972.0808_ 0:20  306.73  n/a     .000
01292>                     +     5.0 02:INT-2         3.61     .040 1972.0807_23:40  305.17  n/a     .000
01293>                     +     5.0 02:INT-3         5.71     .093 1972.0807_23:35  306.44  n/a     .000
01294>                     +     5.0 02:A3A           3.84     .042 1972.0808_ 0:05  306.44  n/a     .000
01295>                     +     5.0 02:A3C-R         1.21     .003 1972.0808_ 4:20  400.14  n/a     .000
01296>                   SUM=    5.0 01:J2           68.26     .426 1972.0808_ 0:00  307.07  n/a     .000
01297> R1972:C00018-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01298>     ROUTE CHANNEL     ->    5.0 02:J2           68.26     .426 1972.0808_ 0:00  307.07  n/a     .000
01299>       [RDT= 5.00] out<-     5.0 01:R2           68.26     .422 1972.0808_ 0:05  307.07  n/a     .000
01300>       [L/S/n=  359./ .560/.035]
01301>       {Vmax=  .595:Dmax=  .199}
01302> R1972:C00019-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01303>     CONTINUOUS NASHYD     5.0 01:A1A          21.43     .104 1972.0808_ 0:25  304.21 .421     .000
01304>       [CN= 36.1: N= 3.00: Tp= 1.68]
01305>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
01306>       [InterEventTime=  12.00]
01307> R1972:C00020-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01308>     CONTINUOUS STANDHYD   5.0 01:Pond1-In      10.00     .604 1972.0712_ 4:00  279.69 .387     .000
01309>       [XIMP=.38:TIMP=.74]
01310>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  Fe=****]
01311>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP= 500.:MNP=.250:SCP=   .0]
01312>       [Impervious   area: IAimp= 1.57:SLPI=1.50:LGI=  250.:MNI=.013:SCI=   .0]
01313>       [IaRECimp=  12.00: IaRECper=  12.00]
01314> R1972:C00021-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01315>     ROUTE RESERVOIR ->    5.0 02:Pond1-In      10.00     .604 1972.0712_ 4:00  279.69  n/a     .000
01316>                 out <=    5.0 01:Pond1-Out     10.00     .031 1972.0808_ 2:10  279.69  n/a     .000
01317>           overflow <=    5.0 03:Pond1-Over      .00     .000 1972.0401_ 0:00     .00  n/a     .000
01318>       {MxStoUsed=.2663E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
01319> R1972:C00022-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01320>     CONTINUOUS NASHYD     5.0 01:A2            9.14     .162 1972.0807_23:45  308.03 .427     .000
01321>       [CN= 68.4: N= 3.00: Tp= 1.12]
01322>       [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
01323>       [InterEventTime=  12.00]
01324> R1972:C00023-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01325>     ADD HYD               5.0 02:R2           68.26     .422 1972.0808_ 0:05  307.07  n/a     .000
01326>                     +     5.0 02:A1A          21.43     .104 1972.0808_ 0:25  304.21  n/a     .000
01327>                     +     5.0 02:A2            9.14     .162 1972.0807_23:45  308.03  n/a     .000
01328>                     +     5.0 02:Pond1-Over     .00     .000 1972.0401_ 0:00     .00  n/a     .000
01329>                     +     5.0 02:Pond1-Out     10.00     .031 1972.0808_ 2:10  279.69  n/a     .000
01330>                   SUM=    5.0 01:J3           108.84     .705 1972.0808_ 0:00  304.06  n/a     .000
01331> R1972:C00024-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01332>     ROUTE CHANNEL     ->    5.0 02:J3           108.84     .705 1972.0808_ 0:00  304.06  n/a     .000
01333>       [RDT= 5.00] out<-     5.0 01:R3           108.84     .689 1972.0808_ 0:15  304.06  n/a     .000
01334>       [L/S/n=  396./ .305/.035]
01335>       {Vmax=  .456:Dmax=  .372}
01336> R1972:C00025-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01337>     CONTINUOUS NASHYD     5.0 01:SOUTH-1      20.21     .107 1972.0808_ 0:05  304.12 .421     .000
01338>       [CN= 35.5: N= 3.00: Tp= 1.40]
01339>       [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
01340>       [InterEventTime=  12.00]
01341> R1972:C00026-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01342>     ADD HYD               5.0 02:R3           108.84     .689 1972.0808_ 0:15  304.06  n/a     .000
01343>                     +     5.0 02:SOUTH-1      20.21     .107 1972.0808_ 0:05  304.12  n/a     .000
01344>                   SUM=    5.0 01:J4           129.05     .795 1972.0808_ 0:15  304.07  n/a     .000
01345> R1972:C00027-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01346>     ROUTE CHANNEL     ->    5.0 02:J4           129.05     .795 1972.0808_ 0:15  304.07  n/a     .000
01347>       [RDT= 5.00] out<-     5.0 01:R4           129.05     .782 1972.0808_ 0:30  304.07  n/a     .000
01348>       [L/S/n=  482./ .410/.035]
01349>       {Vmax=  .610:Dmax=  .371}
01350> R1972:C00028-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01351>     CONTINUOUS NASHYD     5.0 01:SOUTH-2      11.61     .087 1972.0807_23:40  304.21 .421     .000
01352>       [CN= 36.7: N= 3.00: Tp=  .96]
01353>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
01354>       [InterEventTime=  12.00]
01355> R1972:C00029-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01356>     ADD HYD               5.0 02:R4           129.05     .782 1972.0808_ 0:30  304.07  n/a     .000
01357>                     +     5.0 02:SOUTH-2      11.61     .087 1972.0807_23:40  304.21  n/a     .000
01358>                   SUM=    5.0 01:J5           140.66     .844 1972.0808_ 0:25  304.08  n/a     .000
01359> R1972:C00030-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01360>     ROUTE CHANNEL     ->    5.0 02:J5           140.66     .844 1972.0808_ 0:25  304.08  n/a     .000
01361>       [RDT= 5.00] out<-     5.0 01:R5           140.66     .843 1972.0808_ 0:25  304.08  n/a     .000
01362>       [L/S/n=  181./ .500/.035]
01363>       {Vmax=  .606:Dmax=  .336}
01364> R1972:C00031-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01365>     CONTINUOUS NASHYD     5.0 01:SOUTH-3       7.98     .080 1972.0807_23:35  304.72 .422     .000
01366>       [CN= 42.6: N= 3.00: Tp=  .89]
01367>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
01368>       [InterEventTime=  12.00]
01369> R1972:C00032-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01370>     ADD HYD               5.0 02:R5           140.66     .843 1972.0808_ 0:25  304.08  n/a     .000
01371>                     +     5.0 02:SOUTH-3       7.98     .080 1972.0807_23:35  304.73  n/a     .000
01372>                   SUM=    5.0 01:J6           148.64     .895 1972.0808_ 0:25  304.12  n/a     .000
01373> R1972:C00033-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01374>     SAVE HYD              5.0 01:J6           148.64     .895 1972.0808_ 0:25  304.12  n/a     .000
01375>       fname :J6.1972
01376>       remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
01377> R1972:C00034-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01378>     ROUTE CHANNEL     ->    5.0 02:J6           148.64     .895 1972.0808_ 0:25  304.12  n/a     .000
01379>       [RDT= 5.00] out<-     5.0 01:R6           148.64     .890 1972.0808_ 0:30  304.12  n/a     .000
01380>       [L/S/n=  323./ .440/.035]
01381>       {Vmax=  .644:Dmax=  .384}
01382> R1972:C00035-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01383>     CONTINUOUS NASHYD     5.0 01:SOUTH-4      14.99     .102 1972.0807_23:55  304.41 .422     .000
01384>       [CN= 39.5: N= 3.00: Tp= 1.23]
01385>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
01386>       [InterEventTime=  12.00]
01387> R1972:C00036-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01388>     ADD HYD               5.0 02:R6           148.64     .890 1972.0808_ 0:30  304.12  n/a     .000
01389>                     +     5.0 02:SOUTH-4      14.99     .102 1972.0807_23:55  304.41  n/a     .000
01390>                   SUM=    5.0 01:Total        163.63     .979 1972.0808_ 0:30  304.14  n/a     .000
01391> ##############################################################################
01392> ##############################################################################
01393> ##############################################################################
01394> # CONTINUOUS RAINFALL DATA
01395> ##############################################################################
01396> #**************************************************************************
01397> # STORMS
01398> #**************************************************************************
01399>  ** END OF RUN : 1972
01400>
01401>  ************************************************************************************************************
01402>
01403>
01404>
01405>
01406>
01407>  RUN#:COMMAND#
01408> R1973:C00001-----------------------------------------------------------------------------------------------
01409>      START
01410>       [TZERO =    .00 hrs on 19730401]
01411>       [METOUT=   2   (1=imperial, 2=metric output)]
01412>       [NSTORM=   0 ]
01413>       [NRUN  = 1973 ]
01414> #**************************************************************************
01415> #  SWMHYMO  / INPUT DATA FILE
01416> #**************************************************************************
01417> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
01418> #  Date        : 04-28-2021
01419> #  Modeller    : [J.B]
01420> #  Company     : JFSAinc.
01421> #  License #   : 2549237
01422> #**************************************************************************
01423> #**************************************************************************
01424> #**************************************************************************
01425> # Ottawa International Airport - April 1st to October 31st
01426> R1973:C00002-----------------------------------------------------------------------------------------------
01427>      READ AES DATA
01428>       [Filename  = YOW_1967_2007.123                                    ]
01429>       [Start_date= 1973.0401: End_date= 1973.1031]
01430>       {DT= 60.min: Length= 5136.hrs: WetHrs=  401: DryHrs= 4735: PTOT= 618.50}
01431>       Maximum average rainfall intensities over
01432>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
01433>        30.00    17.25    12.33     7.10     3.63     1.89     1.28      .96      .96    mm/hr
01434>        30.00    34.50    37.00    42.60    43.60    45.40    46.00    46.00    69.20    mm
01435>       19730611 19730808 19730808 19730808 19730808 19730808 19730616 19730616 19730616 19731005  date
01436>       Number of rainfall events per following interevent time
01437>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
01438>          143      118      107       82       59       45       39       29       26
01439>       Number of events with at least the following durations
01440>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
```

```
01441>         142       69       46       16        4        0        0        0        0
01442> R1973:C00003-----------------------------------------------------------------------------------------
01443>      COMPUTE API
01444>       [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
01445>       {APImax= 78.27: APIavg= 28.73: APImin=  5.57}
01446> R1973:C00004-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01447>      CONTINUOUS NASHYD     5.0 01:NORTH-1       34.70     .064 1973.0808_23:50  263.06 .425     .000
01448>        [CN= 38.1: N= 3.00: Tp= 4.12]
01449>        [IaREC= 6.00: SMIN=168.62: SMAX=******: Sk= .030]
01450>        [InterEventTime=  12.00]
01451> R1973:C00005-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01452>      CONTINUOUS NASHYD     5.0 01:NORTH-2       12.44     .099 1973.0808_21:00  264.24 .427     .000
01453>        [CN= 53.0: N= 3.00: Tp= 1.29]
01454>        [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: Sk= .030]
01455>        [InterEventTime=  12.00]
01456> R1973:C00006-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01457>      CONTINUOUS NASHYD     5.0 01:HWY-1         2.36     .047 1973.0808_20:55  269.03 .435     .000
01458>        [CN= 81.7: N= 3.00: Tp= 1.21]
01459>        [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: Sk= .030]
01460>        [InterEventTime=  12.00]
01461> R1973:C00007-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01462>      ADD HYD               5.0 02:NORTH-1       34.70     .064 1973.0808_23:50  263.06  n/a     .000
01463>                      +     5.0 02:NORTH-2       12.44     .099 1973.0808_21:00  264.24  n/a     .000
01464>                      +     5.0 02:HWY-1          2.36     .047 1973.0808_20:55  269.03  n/a     .000
01465>                    SUM=    5.0 01:J1            49.51     .179 1973.0808_21:10  263.64  n/a     .000
01466> R1973:C00008-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01467>      ROUTE CHANNEL    ->     5.0 02:J1            49.51     .179 1973.0808_21:10  263.64  n/a     .000
01468>        [RDT= 5.00] out<-     5.0 01:R1            49.51     .175 1973.0808_21:25  263.64  n/a     .000
01469>        [L/S/n=  478./ .440/.035]
01470>        {Vmax=  .464:Dmax=  .212}
01471> R1973:C00009-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01472>      CONTINUOUS NASHYD     5.0 01:INT-1         4.39     .036 1973.0808_21:25  265.06 .429     .000
01473>        [CN= 60.4: N= 3.00: Tp= 1.66]
01474>        [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: Sk= .030]
01475>        [InterEventTime=  12.00]
01476> R1973:C00010-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01477>      CONTINUOUS NASHYD     5.0 01:INT-2         3.61     .031 1973.0808_20:40  263.72 .426     .000
01478>        [CN= 47.4: N= 3.00: Tp=  .95]
01479>        [IaREC= 6.00: SMIN=115.26: SMAX=768.40: Sk= .030]
01480>        [InterEventTime=  12.00]
01481> R1973:C00011-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01482>      CONTINUOUS NASHYD     5.0 01:A3A           3.84     .033 1973.0808_21:10  264.81 .428     .000
01483>        [CN= 58.4: N= 3.00: Tp= 1.46]
01484>        [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: Sk= .030]
01485>        [InterEventTime=  12.00]
01486> R1973:C00012-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01487> *    CONTINUOUS STANDHYD    5.0 01:Pond3-In      1.21     .077 1973.0611_17:00  339.82 .549     .000
01488>        [XIMP=.64:TIMP=.75]
01489>        [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  Fe=****]
01490>        [Pervious     area: IAper= 4.67:SLPP=2.50:LGP= 100.:MNP=.250:SCP=   .0]
01491>        [Impervious   area: IAimp= 1.57:SLPI=2.50:LGI=  50.:MNI=.013:SCI=   .0]
01492>        [IaRECimp=  12.00: IaRECper=  12.00]
01493> R1973:C00013-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01494>      ROUTE RESERVOIR ->     5.0 02:Pond3-In      1.21     .077 1973.0611_17:00  339.82  n/a     .000
01495>                 out <=     5.0 01:Pond3-Out     1.21     .003 1973.0808_21:00  339.80  n/a     .000
01496>              overflow <=   5.0 03:Pond3-Over      .00     .000 1973.0401_ 0:00    .00  n/a     .000
01497>        {MxStoUsed=.4078E-01  m3, TotOvfVol=.0000E+00  m3, V-Ovf=    0, TotDurOvf=   0.hrs}
01498> R1973:C00014-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01499>      ADD HYD               5.0 02:Pond3-Over      .00     .000 1973.0401_ 0:00    .00  n/a     .000
01500>                      +     5.0 02:Pond3-Out     1.21     .003 1973.0808_21:00  339.80  n/a     .000
01501>                    SUM=    5.0 01:Pond3-Ditc    1.21     .003 1973.0808_21:00  339.80  n/a     .000
01502> R1973:C00015-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01503>      ROUTE CHANNEL    ->     5.0 02:Pond3-Out     1.21     .003 1973.0808_21:00  339.80  n/a     .000
01504>        [RDT= 5.00] out<-     5.0 01:A3C-R         1.21     .003 1973.0809_ 4:00  339.80  n/a     .000
01505>        [L/S/n=  500./ .140/.035]
01506>        {Vmax=  .076:Dmax=  .039}
01507> R1973:C00016-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01508>      CONTINUOUS NASHYD     5.0 01:INT-3         5.71     .073 1973.0808_20:40  264.81 .428     .000
01509>        [CN= 58.5: N= 3.00: Tp=  .89]
01510>        [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: Sk= .030]
01511>        [InterEventTime=  12.00]
01512> R1973:C00017-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01513>      ADD HYD               5.0 02:R1            49.51     .175 1973.0808_21:25  263.64  n/a     .000
01514>                      +     5.0 02:INT-1         4.39     .036 1973.0808_21:25  265.06  n/a     .000
01515>                      +     5.0 02:INT-2         3.61     .031 1973.0808_20:40  263.72  n/a     .000
01516>                      +     5.0 02:INT-3         5.71     .073 1973.0808_20:40  264.81  n/a     .000
01517>                      +     5.0 02:A3A           3.84     .033 1973.0808_21:10  264.81  n/a     .000
01518>                      +     5.0 02:A3C-R         1.21     .003 1973.0809_ 4:00  339.80  n/a     .000
01519>                    SUM=    5.0 01:J2            68.26     .327 1973.0808_21:05  265.23  n/a     .000
01520> R1973:C00018-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01521>      ROUTE CHANNEL    ->     5.0 02:J2            68.26     .327 1973.0808_21:05  265.23  n/a     .000
01522>        [RDT= 5.00] out<-     5.0 01:R2            68.26     .324 1973.0808_21:15  265.23  n/a     .000
01523>        [L/S/n=  359./ .560/.035]
01524>        {Vmax=  .542:Dmax=  .174}
01525> R1973:C00019-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01526>      CONTINUOUS NASHYD     5.0 01:A1A           21.43     .076 1973.0808_21:25  262.89 .425     .000
01527>        [CN= 36.1: N= 3.00: Tp= 1.68]
01528>        [IaREC= 6.00: SMIN=191.09: SMAX=******: Sk= .030]
01529>        [InterEventTime=  12.00]
01530> R1973:C00020-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01531>      CONTINUOUS STANDHYD    5.0 01:Pond1-In      10.00     .455 1973.0808_20:00  236.24 .382     .000
01532>        [XIMP=.38:TIMP=.74]
01533>        [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  Fe=****]
01534>        [Pervious     area: IAper= 4.67:SLPP=2.00:LGP= 500.:MNP=.250:SCP=   .0]
01535>        [Impervious   area: IAimp= 1.57:SLPI=1.50:LGI= 250.:MNI=.013:SCI=   .0]
01536>        [IaRECimp=  12.00: IaRECper=  12.00]
01537> R1973:C00021-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01538>      ROUTE RESERVOIR ->     5.0 02:Pond1-In      10.00     .455 1973.0808_20:00  236.24  n/a     .000
01539>                 out <=     5.0 01:Pond1-Out     10.00     .030 1973.0808_22:15  236.24  n/a     .000
01540>              overflow <=   5.0 03:Pond1-Over      .00     .000 1973.0401_ 0:00    .00  n/a     .000
01541>        {MxStoUsed=.2360E+00  m3, TotOvfVol=.0000E+00  m3, V-Ovf=    0, TotDurOvf=   0.hrs}
01542> R1973:C00022-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01543>      CONTINUOUS NASHYD     5.0 01:A2            9.14     .130 1973.0808_20:50  266.14 .430     .000
01544>        [CN= 68.4: N= 3.00: Tp= 1.12]
01545>        [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: Sk= .030]
01546>        [InterEventTime=  12.00]
01547> R1973:C00023-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01548>      ADD HYD               5.0 02:R2            68.26     .324 1973.0808_21:15  265.23  n/a     .000
01549>                      +     5.0 02:A1A           21.43     .076 1973.0808_21:25  262.89  n/a     .000
01550>                      +     5.0 02:A2            9.14     .130 1973.0808_20:50  266.14  n/a     .000
01551>                      +     5.0 02:Pond1-Over      .00     .000 1973.0401_ 0:00    .00  n/a     .000
01552>                      +     5.0 02:Pond1-Out     10.00     .030 1973.0808_22:15  236.24  n/a     .000
01553>                    SUM=    5.0 01:J3           108.84     .550 1973.0808_21:10  262.17  n/a     .000
01554> R1973:C00024-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01555>      ROUTE CHANNEL    ->     5.0 02:J3           108.84     .550 1973.0808_21:10  262.17  n/a     .000
01556>        [RDT= 5.00] out<-     5.0 01:R3           108.84     .535 1973.0808_21:25  262.17  n/a     .000
01557>        [L/S/n=  396./ .305/.035]
01558>        {Vmax=  .433:Dmax=  .102}
01559> R1973:C00025-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01560>      CONTINUOUS NASHYD     5.0 01:SOUTH-1       20.21     .078 1973.0808_21:10  262.80 .425     .000
01561>        [CN= 35.5: N= 3.00: Tp= 1.40]
01562>        [IaREC= 6.00: SMIN=204.20: SMAX=******: Sk= .030]
01563>        [InterEventTime=  12.00]
01564> R1973:C00026-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01565>      ADD HYD               5.0 02:R3           108.84     .535 1973.0808_21:25  262.17  n/a     .000
01566>                      +     5.0 02:SOUTH-1       20.21     .078 1973.0808_21:10  262.80  n/a     .000
01567>                    SUM=    5.0 01:J4           129.05     .612 1973.0808_21:20  262.27  n/a     .000
01568> R1973:C00027-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01569>      ROUTE CHANNEL    ->     5.0 02:J4           129.05     .612 1973.0808_21:20  262.27  n/a     .000
01570>        [RDT= 5.00] out<-     5.0 01:R4           129.05     .600 1973.0808_21:35  262.27  n/a     .000
01571>        [L/S/n=  482./ .410/.035]
01572>        {Vmax=  .581:Dmax=  .337}
01573> R1973:C00028-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01574>      CONTINUOUS NASHYD     5.0 01:SOUTH-2       11.61     .064 1973.0808_20:45  262.89 .425     .000
01575>        [CN= 36.7: N= 3.00: Tp=  .96]
01576>        [IaREC= 6.00: SMIN=191.09: SMAX=******: Sk= .030]
01577>        [InterEventTime=  12.00]
01578> R1973:C00029-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01579>      ADD HYD               5.0 02:R4           129.05     .600 1973.0808_21:35  262.27  n/a     .000
01580>                      +     5.0 02:SOUTH-2       11.61     .064 1973.0808_20:45  262.89  n/a     .000
01581>                    SUM=    5.0 01:J5           140.66     .644 1973.0808_21:30  262.32  n/a     .000
01582> R1973:C00030-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01583>      ROUTE CHANNEL    ->     5.0 02:J5           140.66     .644 1973.0808_21:30  262.32  n/a     .000
01584>        [RDT= 5.00] out<-     5.0 01:R5           140.66     .642 1973.0808_21:35  262.32  n/a     .000
01585>        [L/S/n=  181./ .500/.035]
01586>        {Vmax=  .554:Dmax=  .299}
01587> R1973:C00031-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01588>      CONTINUOUS NASHYD     5.0 01:SOUTH-3        7.98     .060 1973.0808_20:40  263.34 .426     .000
01589>        [CN= 42.6: N= 3.00: Tp=  .89]
01590>        [IaREC= 6.00: SMIN=141.94: SMAX=946.27: Sk= .030]
01591>        [InterEventTime=  12.00]
01592> R1973:C00032-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01593>      ADD HYD               5.0 02:R5           140.66     .642 1973.0808_21:35  262.32  n/a     .000
01594>                      +     5.0 02:SOUTH-3        7.98     .060 1973.0808_20:40  263.34  n/a     .000
01595>                    SUM=    5.0 01:J6           148.64     .678 1973.0808_21:30  262.37  n/a     .000
01596> R1973:C00033-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01597>      SAVE HYD              5.0 01:J6           148.64     .678 1973.0808_21:30  262.37  n/a     .000
01598>        fname :J6.1973
01599>        remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
01600> R1973:C00034-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01601>      ROUTE CHANNEL    ->     5.0 02:J6           148.64     .678 1973.0808_21:30  262.37  n/a     .000
01602>        [RDT= 5.00] out<-     5.0 01:R6           148.64     .673 1973.0808_21:40  262.37  n/a     .000
01603>        [L/S/n=  323./ .440/.035]
01604>        {Vmax=  .609:Dmax=  .345}
01605> R1973:C00035-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01606>      CONTINUOUS NASHYD     5.0 01:SOUTH-4       14.99     .076 1973.0808_21:00  263.06 .425     .000
01607>        [CN= 39.5: N= 3.00: Tp= 1.23]
01608>        [IaREC= 6.00: SMIN=168.62: SMAX=******: Sk= .030]
01609>        [InterEventTime=  12.00]
01610> R1973:C00036-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01611>      ADD HYD               5.0 02:R6           148.64     .673 1973.0808_21:40  262.37  n/a     .000
01612>                      +     5.0 02:SOUTH-4       14.99     .076 1973.0808_21:00  263.06  n/a     .000
01613>                    SUM=    5.0 01:Total        163.63     .737 1973.0808_21:35  262.44  n/a     .000
01614> #=============================================================================
01615> #=============================================================================
01616> ###########################################################################
01617> # CONTINUOUS RAINFALL DATA
01618> ###########################################################################
01619> #***************************************************************************
01620> # STORMS

01621> #***************************************************************************
01622>  ** END OF RUN : 1973
01623>
01624>  ************************************************************************************************
01625>
01626>
01627>
01628>
01629>
01630>  RUN#:COMMAND#
01631> R1974:C00001-----------------------------------------------------------------------------------------
01632>      START
01633>       [TZERO =    .00 hrs on 19740401]
01634>       [METOUT=   2    (1=imperial, 2=metric output)]
01635>       [NSTORM=   0 ]
01636>       [NRUN  = 1974 ]
01637> #***************************************************************************
01638> #  SWMHYMO  / INPUT DATA FILE
01639> #***************************************************************************
01640> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
01641> #  Date        : 04-28-2021
01642> #  Modeller    : [J.B]
01643> #  Company     : JFSAinc.
01644> #  License #   :  2549237
01645> #***************************************************************************
01646> #***************************************************************************
01647> #***************************************************************************
01648> # Ottawa International Airport - April 1st to October 31st
01649> R1974:C00002-----------------------------------------------------------------------------------------
01650>  *  READ AES DATA
01651>       [Filename  = YOW_1967_2007.123                                        ]
01652>       [Start_date= 1974.0401: End_date= 1974.1031]
01653>       {DT= 60.min: Length= 4416.hrs: WetHrs=  281: DryHrs= 4135: PTOT= 332.10}
01654>       Maximum average rainfall intensities over
01655>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
01656>        20.60    15.40    10.97     5.18     2.59     1.35      .90      .68      .45    mm/hr
01657>        20.60    30.80    31.10    31.10    31.10    32.40    32.40    32.40    32.40    mm
01658>       19740718 19740719 19740719 19740719 19740719 19740719 19740719 19740720 19740720 19740721  date
01659>       Number of rainfall events per following interevent time
01660>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
01661>          117       95       83       68       56       43       31       26       16
01662>       Number of events with at least the following durations
01663>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
01664>          116       59       28        9        2        0        0        0        0
01665> R1974:C00003-----------------------------------------------------------------------------------------
01666>      COMPUTE API
01667>       [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
01668>       {APImax= 53.49: APIavg= 19.70: APImin=   .71}
01669> R1974:C00004-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01670>      CONTINUOUS NASHYD     5.0 01:NORTH-1       34.70     .023 1974.0719_ 4:30   74.60 .225     .000
01671>        [CN= 38.1: N= 3.00: Tp= 4.12]
01672>        [IaREC= 6.00: SMIN=168.62: SMAX=******: Sk= .030]
01673>        [InterEventTime=  12.00]
01674> R1974:C00005-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01675>      CONTINUOUS NASHYD     5.0 01:NORTH-2       12.44     .034 1974.0719_ 1:50   74.99 .226     .000
01676>        [CN= 53.0: N= 3.00: Tp= 1.29]
01677>        [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: Sk= .030]
01678>        [InterEventTime=  12.00]
01679> R1974:C00006-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01680>      CONTINUOUS NASHYD     5.0 01:HWY-1         2.36     .019 1974.0719_ 1:40   76.95 .232     .000
01681>        [CN= 81.7: N= 3.00: Tp= 1.21]
01682>        [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: Sk= .030]
01683>        [InterEventTime=  12.00]
01684> R1974:C00007-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01685>      ADD HYD               5.0 02:NORTH-1       34.70     .023 1974.0719_ 4:30   74.60  n/a     .000
01686>                      +     5.0 02:NORTH-2       12.44     .034 1974.0719_ 1:50   74.99  n/a     .000
01687>                      +     5.0 02:HWY-1          2.36     .019 1974.0719_ 1:40   76.95  n/a     .000
01688>                    SUM=    5.0 01:J1            49.51     .065 1974.0719_ 1:55   74.81  n/a     .000
01689> R1974:C00008-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01690>      ROUTE CHANNEL    ->     5.0 02:J1            49.51     .065 1974.0719_ 1:55   74.81  n/a     .000
01691> *    [RDT= 5.00] out<-     5.0 01:R1            49.51     .062 1974.0719_ 2:10   74.81  n/a     .000
01692>        [L/S/n=  478./ .440/.035]
01693>        {Vmax=  .344:Dmax=  .139}
01694> R1974:C00009-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01695>      CONTINUOUS NASHYD     5.0 01:INT-1         4.39     .013 1974.0719_ 2:05   75.27 .227     .000
01696>        [CN= 60.4: N= 3.00: Tp= 1.66]
01697>        [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: Sk= .030]
01698>        [InterEventTime=  12.00]
01699> R1974:C00010-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01700>      CONTINUOUS NASHYD     5.0 01:INT-2         3.61     .010 1974.0719_ 1:30   74.81 .225     .000
01701>        [CN= 47.4: N= 3.00: Tp=  .95]
01702>        [IaREC= 6.00: SMIN=115.26: SMAX=768.40: Sk= .030]
01703>        [InterEventTime=  12.00]
01704> R1974:C00011-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01705>      CONTINUOUS NASHYD     5.0 01:A3A           3.84     .011 1974.0719_ 1:55   75.19 .226     .000
01706>        [CN= 58.4: N= 3.00: Tp= 1.46]
01707>        [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: Sk= .030]
01708>        [InterEventTime=  12.00]
01709> R1974:C00012-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01710> *    CONTINUOUS STANDHYD    5.0 01:Pond3-In      1.21     .045 1974.0719_ 0:00  156.72 .472     .000
01711>        [XIMP=.64:TIMP=.75]
01712>        [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  Fe=****]
01713>        [Pervious     area: IAper= 4.67:SLPP=2.50:LGP= 100.:MNP=.250:SCP=   .0]
01714>        [Impervious   area: IAimp= 1.57:SLPI=2.50:LGI=  50.:MNI=.013:SCI=   .0]
01715>        [IaRECimp=  12.00: IaRECper=  12.00]
01716> R1974:C00013-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01717>      ROUTE RESERVOIR ->     5.0 02:Pond3-In      1.21     .045 1974.0719_ 0:00  156.72  n/a     .000
01718>                 out <=     5.0 01:Pond3-Out     1.21     .003 1974.0719_ 1:05  156.71  n/a     .000
01719>              overflow <=   5.0 03:Pond3-Over      .00     .000 1974.0401_ 0:00    .00  n/a     .000
01720>        {MxStoUsed=.2471E-01  m3, TotOvfVol=.0000E+00  m3, V-Ovf=    0, TotDurOvf=   0.hrs}
01721> R1974:C00014-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01722>      ADD HYD               5.0 02:Pond3-Over      .00     .000 1974.0401_ 0:00    .00  n/a     .000
01723>                      +     5.0 02:Pond3-Out     1.21     .003 1974.0719_ 1:05  156.71  n/a     .000
01724>                    SUM=    5.0 01:Pond3-Ditc    1.21     .003 1974.0719_ 1:05  156.71  n/a     .000
01725> R1974:C00015-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01726>      ROUTE CHANNEL    ->     5.0 02:Pond3-Out     1.21     .003 1974.0719_ 1:05  156.71  n/a     .000
01727>        [RDT= 5.00] out<-     5.0 01:A3C-R         1.21     .003 1974.0719_ 8:35  156.71  n/a     .000
01728>        [L/S/n=  500./ .140/.035]
01729>        {Vmax=  .075:Dmax=  .038}
01730> R1974:C00016-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01731>      CONTINUOUS NASHYD     5.0 01:INT-3         5.71     .024 1974.0719_ 1:30   75.19 .226     .000
01732>        [CN= 58.5: N= 3.00: Tp=  .89]
01733>        [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: Sk= .030]
01734>        [InterEventTime=  12.00]
01735> R1974:C00017-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01736>      ADD HYD               5.0 02:R1            49.51     .062 1974.0719_ 2:10   74.81  n/a     .000
01737>                      +     5.0 02:INT-1         4.39     .013 1974.0719_ 2:05   75.27  n/a     .000
01738>                      +     5.0 02:INT-2         3.61     .010 1974.0719_ 1:30   74.81  n/a     .000
01739>                      +     5.0 02:INT-3         5.71     .024 1974.0719_ 1:30   75.19  n/a     .000
01740>                      +     5.0 02:A3A           3.84     .011 1974.0719_ 1:55   75.19  n/a     .000
01741>                      +     5.0 02:A3C-R         1.21     .003 1974.0719_ 8:35  156.71  n/a     .000
01742>                    SUM=    5.0 01:J2            68.26     .115 1974.0719_ 1:55   76.33  n/a     .000
01743> R1974:C00018-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01744>      ROUTE CHANNEL    ->     5.0 02:J2            68.26     .115 1974.0719_ 1:55   76.33  n/a     .000
01745>        [RDT= 5.00] out<-     5.0 01:R2            68.26     .113 1974.0719_ 2:05   76.33  n/a     .000
01746>        [L/S/n=  359./ .560/.035]
01747>        {Vmax=  .371:Dmax=  .105}
01748> R1974:C00019-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01749>      CONTINUOUS NASHYD     5.0 01:A1A           21.43     .025 1974.0719_ 2:10   74.54 .224     .000
01750>        [CN= 36.1: N= 3.00: Tp= 1.68]
01751>        [IaREC= 6.00: SMIN=191.09: SMAX=******: Sk= .030]
01752>        [InterEventTime=  12.00]
01753> R1974:C00020-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01754>      CONTINUOUS STANDHYD    5.0 01:Pond1-In      10.00     .240 1974.0719_ 0:00  100.20 .302     .000
01755>        [XIMP=.38:TIMP=.74]
01756>        [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  Fe=****]
01757>        [Pervious     area: IAper= 4.67:SLPP=2.00:LGP= 500.:MNP=.250:SCP=   .0]
01758>        [Impervious   area: IAimp= 1.57:SLPI=1.50:LGI= 250.:MNI=.013:SCI=   .0]
01759>        [IaRECimp=  12.00: IaRECper=  12.00]
01760> R1974:C00021-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01761>      ROUTE RESERVOIR ->     5.0 02:Pond1-In      10.00     .240 1974.0719_ 0:00  100.20  n/a     .000
01762>                 out <=     5.0 01:Pond1-Out     10.00     .027 1974.0719_ 3:00  100.20  n/a     .000
01763>              overflow <=   5.0 03:Pond1-Over      .00     .000 1974.0401_ 0:00    .00  n/a     .000
01764>        {MxStoUsed=.1449E+00  m3, TotOvfVol=.0000E+00  m3, V-Ovf=    0, TotDurOvf=   0.hrs}
01765> R1974:C00022-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01766>      CONTINUOUS NASHYD     5.0 01:A2            9.14     .046 1974.0719_ 1:40   75.69 .228     .000
01767>        [CN= 68.4: N= 3.00: Tp= 1.12]
01768>        [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: Sk= .030]
01769>        [InterEventTime=  12.00]
01770> R1974:C00023-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01771>      ADD HYD               5.0 02:R2            68.26     .113 1974.0719_ 2:05   76.33  n/a     .000
01772>                      +     5.0 02:A1A           21.43     .025 1974.0719_ 2:10   74.54  n/a     .000
01773>                      +     5.0 02:A2            9.14     .046 1974.0719_ 1:40   75.69  n/a     .000
01774>                      +     5.0 02:Pond1-Over      .00     .000 1974.0401_ 0:00    .00  n/a     .000
01775>                      +     5.0 02:Pond1-Out     10.00     .027 1974.0719_ 3:00  100.20  n/a     .000
01776>                    SUM=    5.0 01:J3           108.84     .207 1974.0719_ 2:00   78.11  n/a     .000
01777> R1974:C00024-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01778>      ROUTE CHANNEL    ->     5.0 02:J3           108.84     .207 1974.0719_ 2:00   78.11  n/a     .000
01779>        [RDT= 5.00] out<-     5.0 01:R3           108.84     .201 1974.0719_ 2:15   78.11  n/a     .000
01780>        [L/S/n=  396./ .305/.035]
01781>        {Vmax=  .379:Dmax=  .233}
01782> R1974:C00025-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01783>      CONTINUOUS NASHYD     5.0 01:SOUTH-1       20.21     .026 1974.0719_ 1:55   74.52 .224     .000
01784>        [CN= 35.5: N= 3.00: Tp= 1.40]
01785>        [IaREC= 6.00: SMIN=204.20: SMAX=******: Sk= .030]
01786>        [InterEventTime=  12.00]
01787> R1974:C00026-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01788>      ADD HYD               5.0 02:R3           108.84     .201 1974.0719_ 2:15   78.12  n/a     .000
01789>                      +     5.0 02:SOUTH-1       20.21     .026 1974.0719_ 1:55   74.52  n/a     .000
01790>                    SUM=    5.0 01:J4           129.05     .226 1974.0719_ 2:10   77.55  n/a     .000
01791> R1974:C00027-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01792>      ROUTE CHANNEL    ->     5.0 02:J4           129.05     .226 1974.0719_ 2:10   77.55  n/a     .000
01793>        [RDT= 5.00] out<-     5.0 01:R4           129.05     .221 1974.0719_ 2:25   77.55  n/a     .000
01794>        [L/S/n=  482./ .410/.035]
01795>        {Vmax=  .460:Dmax=  .223}
01796> R1974:C00028-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01797>      CONTINUOUS NASHYD     5.0 01:SOUTH-2       11.61     .020 1974.0719_ 1:30   74.54 .224     .000
01798>        [CN= 36.7: N= 3.00: Tp=  .96]
01799>        [IaREC= 6.00: SMIN=191.09: SMAX=******: Sk= .030]
01800>        [InterEventTime=  12.00]
```

```
01801> R1974:C00029-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01802>     ADD HYD                5.0 02:R4          129.05     .221 1974.0719_ 2:25   77.55  n/a     .000
01803>                       +     5.0 02:SOUTH-2      11.61     .020 1974.0719_ 1:30   74.54  n/a     .000
01804>                   SUM=      5.0 01:J5          140.66     .234 1974.0719_ 2:20   77.30  n/a     .000
01805> R1974:C00030-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01806>     ROUTE CHANNEL   ->     5.0 02:J5          140.66     .234 1974.0719_ 2:20   77.30  n/a     .000
01807>      [RDT= 5.00] out<-     5.0 01:R5          140.66     .234 1974.0719_ 2:25   77.30  n/a     .000
01808>       [L/S/n=  181./ .500/.035]
01809>       {Vmax=  .446:Dmax=  .217}
01810> R1974:C00031-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01811>     CONTINUOUS NASHYD      5.0 01:SOUTH-3       7.98     .019 1974.0719_ 1:30   74.68 .225     .000
01812>       [CN= 42.6: N= 3.00: Tp=  .89]
01813>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
01814>       [InterEventTime=  12.00]
01815> R1974:C00032-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01816>     ADD HYD                5.0 02:R5          140.66     .234 1974.0719_ 2:25   77.30  n/a     .000
01817>                       +     5.0 02:SOUTH-3       7.98     .019 1974.0719_ 1:30   74.68  n/a     .000
01818>                   SUM=      5.0 01:J6          148.64     .245 1974.0719_ 2:20   77.16  n/a     .000
01819> R1974:C00033-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01820>     SAVE HYD               5.0 01:J6          148.64     .245 1974.0719_ 2:20   77.16  n/a     .000
01821>       fname :J6.1974
01822>       remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
01823> R1974:C00034-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01824>     ROUTE CHANNEL   ->     5.0 02:J6          148.64     .245 1974.0719_ 2:20   77.16  n/a     .000
01825>      [RDT= 5.00] out<-     5.0 01:R6          148.64     .243 1974.0719_ 2:30   77.16  n/a     .000
01826>       [L/S/n=  323./ .440/.035]
01827>       {Vmax=  .484:Dmax=  .228}
01828> R1974:C00035-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01829>     CONTINUOUS NASHYD      5.0 01:SOUTH-4      14.99     .025 1974.0719_ 1:45   74.60 .225     .000
01830>       [CN= 39.5: N= 3.00: Tp= 1.23]
01831>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
01832>       [InterEventTime=  12.00]
01833> R1974:C00036-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01834>     ADD HYD                5.0 02:R6          148.64     .243 1974.0719_ 2:30   77.16  n/a     .000
01835>                       +     5.0 02:SOUTH-4      14.99     .025 1974.0719_ 1:45   74.60  n/a     .000
01836>                   SUM=      5.0 01:Total       163.63     .263 1974.0719_ 2:25   76.93  n/a     .000
01837> #=========================================================================
01838> #=========================================================================
01839> #########################################################################
01840> # CONTINUOUS RAINFALL DATA
01841> #########################################################################
01842> #*************************************************************************
01843> # STORMS
01844> #*************************************************************************
01845>  ** END OF RUN : 1974
01846>
01847>  ************************************************************************************************
01848>
01849>
01850>
01851>
01852>
01853>  RUN#:COMMAND#
01854> R1975:C00001-----------------------------------------------------------------------------------------
01855>      START
01856>      [TZERO =    .00 hrs on 19750401]
01857>      [METOUT=  2   (1=imperial, 2=metric output)]
01858>      [NSTORM=  0 ]
01859>      [NRUN  = 1975 ]
01860> #*************************************************************************
01861> #  SWMHYMO  / INPUT DATA FILE
01862> #*************************************************************************
01863> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
01864> #  Date        : 04-28-2021
01865> #  Modeller    : [J.B]
01866> #  Company     : JFSAinc.
01867> #  License #   :  2549237
01868> #*************************************************************************
01869> #*************************************************************************
01870> #*************************************************************************
01871> # Ottawa International Airport - April 1st to October 31st
01872> R1975:C00002-----------------------------------------------------------------------------------------
01873>  *  READ AES DATA
01874>       [Filename  = YOW_1967_2007.123                                                    ]
01875>       [Start_date= 1975.0401: End_date= 1975.1031]
01876>       {DT= 60.min: Length= 3672.hrs: WetHrs=  264: DryHrs= 3408: PTOT= 429.50}
01877>       Maximum average rainfall intensities over
01878>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
01879>        34.80    18.40    12.53     6.32     3.33     1.73     1.15      .87      .62    mm/hr
01880>        34.80    36.80    37.60    37.90    40.00    41.50    41.50    41.80    44.40    mm
01881>       19750708 19750720 19750720 19750720 19750721 19750721 19750721 19750721 19750928  date
01882>       Number of rainfall events per following interevent time
01883>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
01884>          109       94       78       58       47       36       27       23       16
01885>       Number of events with at least the following durations
01886>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
01887>          100        1       55       30       11        1        0        0        0
01888> R1975:C00003-----------------------------------------------------------------------------------------
01889>      COMPUTE API
01890>       [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
01891>       {APImax= 73.40: APIavg= 28.98: APImin=  5.65}
01892> R1975:C00004-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01893>     CONTINUOUS NASHYD      5.0 01:NORTH-1       34.70     .045 1975.0724_20:00  167.28 .389     .000
01894>       [CN= 38.1: N= 3.00: Tp= 4.12]
01895>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
01896>       [InterEventTime=  12.00]
01897> R1975:C00005-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01898>     CONTINUOUS NASHYD      5.0 01:NORTH-2       12.44     .063 1975.0720_17:50  168.05 .391     .000
01899>       [CN= 53.0: N= 3.00: Tp= 1.29]
01900>       [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
01901>       [InterEventTime=  12.00]
01902> R1975:C00006-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01903>     CONTINUOUS NASHYD      5.0 01:HWY-1         2.36     .031 1975.0720_17:40  171.48 .399     .000
01904>       [CN= 81.7: N= 3.00: Tp= 1.21]
01905>       [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
01906>       [InterEventTime=  12.00]
01907> R1975:C00007-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01908>     ADD HYD                5.0 02:NORTH-1       34.70     .045 1975.0724_20:00  167.28  n/a     .000
01909>                       +     5.0 02:NORTH-2       12.44     .063 1975.0720_17:50  168.05  n/a     .000
01910>                       +     5.0 02:HWY-1          2.36     .031 1975.0720_17:40  171.48  n/a     .000
01911>                   SUM=      5.0 01:J1            49.51     .118 1975.0720_17:55  167.67  n/a     .000
01912> R1975:C00008-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01913>     ROUTE CHANNEL   ->     5.0 02:J1            49.51     .118 1975.0720_17:55  167.67  n/a     .000
01914>  *   [RDT= 5.00] out<-     5.0 01:R1            49.51     .116 1975.0720_18:15  167.67  n/a     .000
01915>       [L/S/n=  478./ .440/.035]
01916>       {Vmax=  .413:Dmax=  .178}
01917> R1975:C00009-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01918>     CONTINUOUS NASHYD      5.0 01:INT-1         4.39     .023 1975.0720_18:10  168.59 .393     .000
01919>       [CN= 60.4: N= 3.00: Tp= 1.66]
01920>       [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
01921>       [InterEventTime=  12.00]
01922> R1975:C00010-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01923>     CONTINUOUS NASHYD      5.0 01:INT-2         3.61     .018 1975.0720_17:30  167.70 .390     .000
01924>       [CN= 47.4: N= 3.00: Tp=  .95]
01925>       [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
01926>       [InterEventTime=  12.00]
01927> R1975:C00011-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01928>     CONTINUOUS NASHYD      5.0 01:A3A           3.84     .021 1975.0720_18:00  168.42 .392     .000
01929>       [CN= 58.4: N= 3.00: Tp= 1.46]
01930>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
01931>       [InterEventTime=  12.00]
01932> R1975:C00012-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01933>  *  CONTINUOUS STANDHYD     5.0 01:Pond3-In      1.21     .094 1975.0708_17:00  231.37 .539     .000
01934>       [XIMP=.64:TIMP=.75]
01935>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  Fs=****]
01936>       [Pervious    area: IAper= 4.67:SLPP=2.50:LGP= 100.:MNP=.250:SCP=   .0]
01937>       [Impervious  area: IAimp= 1.57:SLPI=2.50:LGI=  50.:MNI=.013:SCI=   .0]
01938>       [IaRECimp=  12.00: IaRECper=  12.00]
01939> R1975:C00013-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01940>     ROUTE RESERVOIR ->     5.0 02:Pond3-In      1.21     .094 1975.0708_17:00  231.37  n/a     .000
01941>                       out <=     5.0 03:Pond3-Out     1.21     .003 1975.0708_17:55  231.35  n/a     .000
01942>             overflow <=     5.0 03:Pond3-Over      .00     .000 1975.0601_ 0:00    .00  n/a     .000
01943>       {MxStoUsed=.3277E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=     0, TotDurOvf=    0.hrs}
01944> R1975:C00014-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01945>     ADD HYD                5.0 02:Pond3-Over      .00     .000 1975.0601_ 0:00    .00  n/a     .000
01946>                       +     5.0 02:Pond3-Out     1.21     .003 1975.0708_17:55  231.35  n/a     .000
01947>                   SUM=      5.0 01:Pond3-Ditc    1.21     .003 1975.0708_17:55  231.35  n/a     .000
01948> R1975:C00015-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01949>     ROUTE CHANNEL   ->     5.0 02:Pond3-Out     1.21     .003 1975.0708_17:55  231.35  n/a     .000
01950>      [RDT= 5.00] out<-     5.0 01:A3C-R         1.21     .003 1975.0721_ 2:10  231.35  n/a     .000
01951>       [L/S/n=  500./ .140/.035]
01952>       {Vmax=  .075:Dmax=  .039}
01953> R1975:C00016-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01954>     CONTINUOUS NASHYD      5.0 01:INT-3         5.71     .043 1975.0720_17:30  168.42 .392     .000
01955>       [CN= 58.5: N= 3.00: Tp=  .89]
01956>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
01957>       [InterEventTime=  12.00]
01958> R1975:C00017-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01959>     ADD HYD                5.0 02:R1           49.51     .116 1975.0720_18:15  167.67  n/a     .000
01960>                       +     5.0 02:INT-1         4.39     .023 1975.0720_18:10  168.59  n/a     .000
01961>                       +     5.0 02:INT-2         3.61     .018 1975.0720_17:30  167.70  n/a     .000
01962>                       +     5.0 02:INT-3         5.71     .043 1975.0720_17:30  168.42  n/a     .000
01963>                       +     5.0 02:A3A           3.84     .021 1975.0720_18:00  168.42  n/a     .000
01964>                       +     5.0 02:A3C-R         1.21     .003 1975.0721_ 2:10  231.35  n/a     .000
01965>                   SUM=      5.0 01:J2           68.26     .212 1975.0720_17:55  168.95  n/a     .000
01966> R1975:C00018-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01967>     ROUTE CHANNEL   ->     5.0 02:J2           68.26     .212 1975.0720_17:55  168.95  n/a     .000
01968>      [RDT= 5.00] out<-     5.0 01:R2           68.26     .210 1975.0720_18:05  168.95  n/a     .000
01969>       [L/S/n=  359./ .560/.035]
01970>       {Vmax=  .464:Dmax=  .141}
01971> R1975:C00019-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01972>     CONTINUOUS NASHYD      5.0 01:A1A          21.43     .049 1975.0720_18:15  167.17 .389     .000
01973>       [CN= 36.1: N= 3.00: Tp= 1.68]
01974>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
01975>       [InterEventTime=  12.00]
01976> R1975:C00020-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01977>     CONTINUOUS STANDHYD     5.0 01:Pond1-In      10.00     .549 1975.0708_17:00  166.07 .387     .000
01978>       [XIMP=.38:TIMP=.74]
01979>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  Fs=****]
01980>       [Pervious    area: IAper= 4.67:SLPP=2.00:LGP= 500.:MNP=.250:SCP=   .0]
01981>       [Impervious  area: IAimp= 1.57:SLPI=1.50:LGI=  250.:MNI=.013:SCI=   .0]
01982>       [IaRECimp=  12.00: IaRECper=  12.00]
01983> R1975:C00021-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01984>     ROUTE RESERVOIR ->     5.0 02:Pond1-In      10.00     .549 1975.0708_17:00  166.07  n/a     .000
01985>                       out <=     5.0 01:Pond1-Out     10.00     .029 1975.0708_19:10  166.07  n/a     .000
01986>             overflow <=     5.0 03:Pond1-Over      .00     .000 1975.0601_ 0:00    .00  n/a     .000
01987>       {MxStoUsed=.2227E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=     0, TotDurOvf=    0.hrs}
01988> R1975:C00022-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01989>     CONTINUOUS NASHYD      5.0 01:A2            9.14     .083 1975.0720_17:40  169.33 .394     .000
01990>       [CN= 68.4: N= 3.00: Tp= 1.12]
01991>       [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
01992>       [InterEventTime=  12.00]
01993> R1975:C00023-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01994>     ADD HYD                5.0 02:R2           68.26     .210 1975.0720_18:05  168.95  n/a     .000
01995>                       +     5.0 02:A1A          21.43     .049 1975.0720_18:15  167.17  n/a     .000
01996>                       +     5.0 02:A2            9.14     .083 1975.0720_17:40  169.33  n/a     .000
01997>                       +     5.0 02:Pond1-Over     .00     .000 1975.0601_ 0:00    .00  n/a     .000
01998>                       +     5.0 02:Pond1-Out     10.00     .029 1975.0708_19:10  166.07  n/a     .000
01999>                   SUM=      5.0 01:J3           108.84     .364 1975.0720_18:00  168.36  n/a     .000
02000> R1975:C00024-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02001>     ROUTE CHANNEL   ->     5.0 02:J3           108.84     .364 1975.0720_18:00  168.36  n/a     .000
02002>      [RDT= 5.00] out<-     5.0 01:R3           108.84     .354 1975.0720_18:15  168.36  n/a     .000
02003>       [L/S/n=  396./ .305/.035]
02004>       {Vmax=  .403:Dmax=  .295}
02005> R1975:C00025-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02006>     CONTINUOUS NASHYD      5.0 01:SOUTH-1       20.21     .049 1975.0720_17:55  167.12 .389     .000
02007>       [CN= 35.5: N= 3.00: Tp= 1.40]
02008>       [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
02009>       [InterEventTime=  12.00]
02010> R1975:C00026-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02011>     ADD HYD                5.0 02:R3           108.84     .354 1975.0720_18:15  168.36  n/a     .000
02012>                       +     5.0 02:SOUTH-1       20.21     .049 1975.0720_17:55  167.12  n/a     .000
02013>                   SUM=      5.0 01:J4           129.05     .402 1975.0720_18:10  168.16  n/a     .000
02014> R1975:C00027-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02015>     ROUTE CHANNEL   ->     5.0 02:J4           129.05     .402 1975.0720_18:10  168.16  n/a     .000
02016>      [RDT= 5.00] out<-     5.0 01:R4           129.05     .395 1975.0720_18:25  168.16  n/a     .000
02017>       [L/S/n=  482./ .410/.035]
02018>       {Vmax=  .532:Dmax=  .282}
02019> R1975:C00028-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02020>     CONTINUOUS NASHYD      5.0 01:SOUTH-2       11.61     .038 1975.0720_17:35  167.17 .389     .000
02021>       [CN= 36.7: N= 3.00: Tp=  .96]
02022>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
02023>       [InterEventTime=  12.00]
02024> R1975:C00029-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02025>     ADD HYD                5.0 02:R4           129.05     .395 1975.0720_18:25  168.16  n/a     .000
02026>                       +     5.0 02:SOUTH-2       11.61     .038 1975.0720_17:35  167.17  n/a     .000
02027>                   SUM=      5.0 01:J5           140.66     .421 1975.0720_18:20  168.08  n/a     .000
02028> R1975:C00030-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02029>     ROUTE CHANNEL   ->     5.0 02:J5           140.66     .421 1975.0720_18:20  168.08  n/a     .000
02030>      [RDT= 5.00] out<-     5.0 01:R5           140.66     .420 1975.0720_18:25  168.08  n/a     .000
02031>       [L/S/n=  181./ .500/.035]
02032>       {Vmax=  .506:Dmax=  .259}
02033> R1975:C00031-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02034>     CONTINUOUS NASHYD      5.0 01:SOUTH-3       7.98     .035 1975.0720_17:30  167.46 .390     .000
02035>       [CN= 42.6: N= 3.00: Tp=  .89]
02036>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
02037>       [InterEventTime=  12.00]
02038> R1975:C00032-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02039>     ADD HYD                5.0 02:R5           140.66     .420 1975.0720_18:25  168.08  n/a     .000
02040>                       +     5.0 02:SOUTH-3       7.98     .035 1975.0720_17:30  167.46  n/a     .000
02041>                   SUM=      5.0 01:J6           148.64     .442 1975.0720_18:25  168.05  n/a     .000
02042> R1975:C00033-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02043>     SAVE HYD               5.0 01:J6           148.64     .442 1975.0720_18:25  168.05  n/a     .000
02044>       fname :J6.1975
02045>       remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
02046> R1975:C00034-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02047>     ROUTE CHANNEL   ->     5.0 02:J6           148.64     .442 1975.0720_18:25  168.05  n/a     .000
02048>      [RDT= 5.00] out<-     5.0 01:R6           148.64     .439 1975.0720_18:30  168.05  n/a     .000
02049>       [L/S/n=  323./ .440/.035]
02050>       {Vmax=  .558:Dmax=  .289}
02051> R1975:C00035-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02052>     CONTINUOUS NASHYD      5.0 01:SOUTH-4       14.99     .047 1975.0720_17:45  167.28 .389     .000
02053>       [CN= 39.5: N= 3.00: Tp= 1.23]
02054>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
02055>       [InterEventTime=  12.00]
02056> R1975:C00036-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02057>     ADD HYD                5.0 02:R6           148.64     .439 1975.0720_18:30  168.05  n/a     .000
02058>                       +     5.0 02:SOUTH-4       14.99     .047 1975.0720_17:45  167.28  n/a     .000
02059>                   SUM=      5.0 01:Total        163.63     .478 1975.0720_18:25  167.98  n/a     .000
02060> ################################################################################
02061> ################################################################################
02062> ################################################################################
02063> # CONTINUOUS RAINFALL DATA
02064> ################################################################################
02065> #*************************************************************************
02066> # STORMS
02067> #*************************************************************************
02068>  ** END OF RUN : 1975
02069>
02070>  ************************************************************************************************
02071>
02072>
02073>
02074>
02075>
02076>  RUN#:COMMAND#
02077> R1976:C00001-----------------------------------------------------------------------------------------
02078>      START
02079>      [TZERO =    .00 hrs on 19760401]
02080>      [METOUT=  2   (1=imperial, 2=metric output)]
02081>      [NSTORM=  0 ]
02082>      [NRUN  = 1976 ]
02083> #*************************************************************************
02084> #  SWMHYMO  / INPUT DATA FILE
02085> #*************************************************************************
02086> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
02087> #  Date        : 04-28-2021
02088> #  Modeller    : [J.B]
02089> #  Company     : JFSAinc.
02090> #  License #   :  2549237
02091> #*************************************************************************
02092> #*************************************************************************
02093> #*************************************************************************
02094> # Ottawa International Airport - April 1st to October 31st
02095> R1976:C00002-----------------------------------------------------------------------------------------
02096>  *  READ AES DATA
02097>       [Filename  = YOW_1967_2007.123                                                    ]
02098>       [Start_date= 1976.0401: End_date= 1976.1031]
02099>       {DT= 60.min: Length= 5136.hrs: WetHrs=  352: DryHrs= 4784: PTOT= 465.00}
02100>       Maximum average rainfall intensities over
02101>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
02102>        14.00     8.90     6.40     4.65     2.35     1.39      .97      .99      .80    mm/hr
02103>        14.00    17.80    19.30    27.90    28.20    33.30    35.10    47.60    57.50    mm
02104>       19760828 19760828 19760828 19760828 19760828 19760920 19760520 19760520 19760921  date
02105>       Number of rainfall events per following interevent time
02106>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
02107>          141      117      104       78       61       53       37       31       22
02108>       Number of events with at least the following durations
02109>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
02110>          141       74       44       14        2        0        0        0        0
02111> R1976:C00003-----------------------------------------------------------------------------------------
02112>      COMPUTE API
02113>       [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
02114>       {APImax= 64.13: APIavg= 22.15: APImin=  4.34}
02115> R1976:C00004-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02116>     CONTINUOUS NASHYD      5.0 01:NORTH-1       34.70     .035 1976.0520_ 1:55  127.03 .273     .000
02117>       [CN= 38.1: N= 3.00: Tp= 4.12]
02118>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
02119>       [InterEventTime=  12.00]
02120> R1976:C00005-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02121>     CONTINUOUS NASHYD      5.0 01:NORTH-2       12.44     .032 1976.0519_23:25  127.91 .275     .000
02122>       [CN= 53.0: N= 3.00: Tp= 1.29]
02123>       [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
02124>       [InterEventTime=  12.00]
02125> R1976:C00006-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02126>     CONTINUOUS NASHYD      5.0 01:HWY-1         2.36     .014 1976.0519_23:20  131.96 .284     .000
02127>       [CN= 81.7: N= 3.00: Tp= 1.21]
02128>       [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
02129>       [InterEventTime=  12.00]
02130> R1976:C00007-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02131>     ADD HYD                5.0 02:NORTH-1       34.70     .035 1976.0520_ 1:55  127.03  n/a     .000
02132>                       +     5.0 02:NORTH-2       12.44     .032 1976.0519_23:25  127.91  n/a     .000
02133>                       +     5.0 02:HWY-1          2.36     .014 1976.0519_23:20  131.96  n/a     .000
02134>                   SUM=      5.0 01:J1            49.51     .074 1976.0519_23:40  127.49  n/a     .000
02135> R1976:C00008-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02136>     ROUTE CHANNEL   ->     5.0 02:J1            49.51     .074 1976.0519_23:40  127.49  n/a     .000
02137>  *   [RDT= 5.00] out<-     5.0 01:R1            49.51     .073 1976.0519_23:55  127.49  n/a     .000
02138>       [L/S/n=  478./ .440/.035]
02139>       {Vmax=  .360:Dmax=  .146}
02140> R1976:C00009-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02141>     CONTINUOUS NASHYD      5.0 01:INT-1         4.39     .013 1976.0519_23:40  128.55 .276     .000
02142>       [CN= 60.4: N= 3.00: Tp= 1.66]
02143>       [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
02144>       [InterEventTime=  12.00]
02145> R1976:C00010-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02146>     CONTINUOUS NASHYD      5.0 01:INT-2         3.61     .008 1976.0519_23:15  127.52 .274     .000
02147>       [CN= 47.4: N= 3.00: Tp=  .95]
02148>       [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
02149>       [InterEventTime=  12.00]
02150> R1976:C00011-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02151>     CONTINUOUS NASHYD      5.0 01:A3A           3.84     .011 1976.0519_23:35  128.35 .276     .000
02152>       [CN= 58.4: N= 3.00: Tp= 1.46]
02153>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
02154>       [InterEventTime=  12.00]
02155> R1976:C00012-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02156>  *  CONTINUOUS STANDHYD     5.0 01:Pond3-In      1.21     .030 1976.0828_18:35  231.02 .497     .000
02157>       [XIMP=.64:TIMP=.75]
02158>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  Fs=****]
02159>       [Pervious    area: IAper= 4.67:SLPP=2.50:LGP= 100.:MNP=.250:SCP=   .0]
02160>       [Impervious  area: IAimp= 1.57:SLPI=2.50:LGI=  50.:MNI=.013:SCI=   .0]
```

```
02161>       [IaREClmp=  12.00: IaRECper=  12.00]
02162> R1976:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02163>      ROUTE RESERVOIR ->     5.0 02:Pond3-In      1.21      .030 1976.0828_18:35  231.02  n/a     .000
02164>                  out <=     5.0 01:Pond3-Out     1.21      .003 1976.0920_18:05  231.00  n/a     .000
02165>              overflow <=    5.0 03:Pond3-Over      .00      .000 1976.0401_ 0:00    .00  n/a     .000
02166>       {MxStoUsed=.2170E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
02167> R1976:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02168>      ADD HYD              5.0 02:Pond3-Over      .00      .000 1976.0401_ 0:00    .00  n/a     .000
02169>                     +     5.0 02:Pond3-Out      1.21      .003 1976.0920_18:05  231.00  n/a     .000
02170>                   SUM=    5.0 01:Pond3-Ditc     1.21      .003 1976.0920_18:05  231.00  n/a     .000
02171> R1976:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02172>      ROUTE CHANNEL   ->     5.0 02:Pond3-Out      1.21      .003 1976.0920_18:05  231.00  n/a     .000
02173>       [RDT= 5.00] out<-     5.0 01:A3C-R          1.21      .003 1976.0920_21:30  231.00  n/a     .000
02174>            [L/S/n=  500./ .140./.035]
02175>       {Vmax=  .075:Dmax=  .038}
02176> R1976:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02177>      CONTINUOUS NASHYD    5.0 01:INT-3          5.71      .018 1976.0519_23:15  128.35 .276     .000
02178>        [CN= 58.5: N= 3.00: Tp=  .89]
02179>        [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
02180>        [InterEventTime=  12.00]
02181> R1976:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02182>      ADD HYD              5.0 02:R1             49.51      .073 1976.0519_23:55  127.49  n/a     .000
02183>                     +     5.0 02:INT-1          4.39      .013 1976.0519_23:40  128.55  n/a     .000
02184>                     +     5.0 02:INT-2          3.61      .008 1976.0519_23:15  127.52  n/a     .000
02185>                     +     5.0 02:INT-3          5.71      .018 1976.0519_23:15  128.35  n/a     .000
02186>                     +     5.0 02:A3A            3.84      .011 1976.0519_23:35  128.35  n/a     .000
02187>                     +     5.0 02:A3C-R          1.21      .003 1976.0920_21:30  231.00  n/a     .000
02188>                   SUM=    5.0 01:J2            68.26      .124 1976.0519_23:35  129.49  n/a     .000
02189> R1976:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02190>      ROUTE CHANNEL   ->     5.0 02:J2             68.26      .124 1976.0519_23:35  129.49  n/a     .000
02191>       [RDT= 5.00] out<-     5.0 01:R2             68.26      .124 1976.0519_23:40  129.49  n/a     .000
02192>            [L/S/n=  359./ .560/.035]
02193>       {Vmax=  .385:Dmax=  .110}
02194> R1976:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02195>      CONTINUOUS NASHYD    5.0 01:A1A            21.43      .029 1976.0519_23:45  126.90 .273     .000
02196>        [CN= 36.1: N= 3.00: Tp= 1.68]
02197>        [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
02198>        [InterEventTime=  12.00]
02199> R1976:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02200>      CONTINUOUS STANDHYD   5.0 01:Pond1-In      10.00      .148 1976.0828_19:00  140.53 .302     .000
02201>        {XIMP=.38:TIMP=.74}
02202>        [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  Fe=****]
02203>        [Pervious     area: IAper= 4.67:SLPP=2.00:LGP= 500.:MNP=.250:SCP=   .0]
02204>        [Impervious   area: IAimp= 1.57:SLPI=1.50:LGI= 250.:MNI=.013:SCI=   .0]
02205>        [IaRECimp=  12.00: IaRECper=  12.00]
02206> R1976:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02207>      ROUTE RESERVOIR ->     5.0 02:Pond1-In      10.00      .148 1976.0828_19:00  140.53  n/a     .000
02208>                  out <=     5.0 01:Pond1-Out     10.00      .023 1976.0828_23:10  140.53  n/a     .000
02209>              overflow <=    5.0 03:Pond1-Over      .00      .000 1976.0401_ 0:00    .00  n/a     .000
02210>       {MxStoUsed=.7167E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
02211> R1976:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02212>      CONTINUOUS NASHYD    5.0 01:A2             9.14      .038 1976.0519_23:20  129.42 .278     .000
02213>        [CN= 68.4: N= 3.00: Tp= 1.12]
02214>        [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
02215>        [InterEventTime=  12.00]
02216> R1976:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02217>      ADD HYD              5.0 02:R2             68.26      .124 1976.0519_23:40  129.49  n/a     .000
02218>                     +     5.0 02:A1A            21.43      .029 1976.0519_23:45  126.90  n/a     .000
02219>                     +     5.0 02:A2             9.14       .038 1976.0519_23:20  129.42  n/a     .000
02220>                     +     5.0 02:Pond1-Over      .00      .000 1976.0401_ 0:00    .00  n/a     .000
02221>                     +     5.0 02:Pond1-Out      10.00      .023 1976.0828_23:10  140.53  n/a     .000
02222>                   SUM=    5.0 01:J3            108.84      .208 1976.0519_23:35  129.98  n/a     .000
02223> R1976:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02224>      ROUTE CHANNEL   ->     5.0 02:J3            108.84      .208 1976.0519_23:35  129.98  n/a     .000
02225>       [RDT= 5.00] out<-     5.0 01:R3            108.84      .206 1976.0519_23:45  129.98  n/a     .000
02226>            [L/S/n=  396./ .305/.035]
02227>       {Vmax=  .380:Dmax=  .234}
02228> R1976:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02229>      CONTINUOUS NASHYD    5.0 01:SOUTH-1        20.21      .027 1976.0519_23:35  126.84 .273     .000
02230>        [CN= 35.5: N= 3.00: Tp= 1.40]
02231>        [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
02232>        [InterEventTime=  12.00]
02233> R1976:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02234>      ADD HYD            100.84      .206 1976.0519_23:45  129.98  n/a     .000
02235>                     +     5.0 02:SOUTH-1        20.21      .027 1976.0519_23:35  126.84  n/a     .000
02236>                   SUM=    5.0 01:J4            129.05      .233 1976.0519_23:45  129.49  n/a     .000
02237> R1976:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02238>      ROUTE CHANNEL   ->     5.0 02:J4            129.05      .233 1976.0519_23:45  129.49  n/a     .000
02239>       [RDT= 5.00] out<-     5.0 01:R4            129.05      .231 1976.0519_23:55  129.49  n/a     .000
02240>            [L/S/n=  482./ .410/.035]
02241>       {Vmax=  .465:Dmax=  .226}
02242> R1976:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02243>      CONTINUOUS NASHYD    5.0 01:SOUTH-2        11.61      .018 1976.0519_23:20  126.90 .273     .000
02244>        [CN= 36.7: N= 3.00: Tp=  .96]
02245>        [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
02246>        [InterEventTime=  12.00]
02247> R1976:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02248>      ADD HYD              5.0 02:R4            129.05      .231 1976.0519_23:55  129.49  n/a     .000
02249>                     +     5.0 02:SOUTH-2        11.61      .018 1976.0519_23:20  126.90  n/a     .000
02250>                   SUM=    5.0 01:J5            140.66      .247 1976.0519_23:50  129.28  n/a     .000
02251> R1976:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02252>      ROUTE CHANNEL   ->     5.0 02:J5            140.66      .247 1976.0519_23:50  129.28  n/a     .000
02253>       [RDT= 5.00] out<-     5.0 01:R5            140.66      .247 1976.0519_23:55  129.28  n/a     .000
02254>            [L/S/n=  181./ .500/.035]
02255>       {Vmax=  .461:Dmax=  .224}
02256> R1976:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02257>      CONTINUOUS NASHYD    5.0 01:SOUTH-3         7.98      .016 1976.0519_23:15  127.23 .274     .000
02258>        [CN= 42.6: N= 3.00: Tp=  .89]
02259>        [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
02260>        [InterEventTime=  12.00]
02261> R1976:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02262>      ADD HYD            140.66      .247 1976.0519_23:50  129.28  n/a     .000
02263>                     +     5.0 02:SOUTH-3         7.98      .016 1976.0519_23:15  127.23  n/a     .000
02264>                   SUM=    5.0 01:J6            148.64      .260 1976.0519_23:50  129.17  n/a     .000
02265> R1976:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02266>      SAVE HYD           148.64      .260 1976.0519_23:50  129.17  n/a     .000
02267>        fname :J6.1976
02268>        remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
02269> R1976:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02270>      ROUTE CHANNEL   ->     5.0 02:J6            148.64      .260 1976.0519_23:50  129.17  n/a     .000
02271>       [RDT= 5.00] out<-     5.0 01:R6            148.64      .259 1976.0520_ 0:00  129.17  n/a     .000
02272>            [L/S/n=  323./ .440/.035]
02273>       {Vmax=  .496:Dmax=  .234}
02274> R1976:C00035------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02275>      CONTINUOUS NASHYD    5.0 01:SOUTH-4        14.99      .024 1976.0519_23:25  127.03 .273     .000
02276>        [CN= 39.5: N= 3.00: Tp= 1.23]
02277>        [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
02278>        [InterEventTime=  12.00]
02279> R1976:C00036------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02280>      ADD HYD              5.0 02:R6            148.64      .259 1976.0520_ 0:00  129.17  n/a     .000
02281>                     +     5.0 02:SOUTH-4        14.99      .024 1976.0519_23:25  127.03  n/a     .000
02282>                   SUM=    5.0 01:Total         163.63      .282 1976.0519_23:50  128.97  n/a     .000
02283> ##############################################################################
02284> ##############################################################################
02285> ##############################################################################
02286> # CONTINUOUS RAINFALL DATA
02287> ##############################################################################
02288> #*****************************************************************************
02289> # STORMS
02290> #*****************************************************************************
02291>   ** END OF RUN : 1976
02292>
02293> ************************************************************************************************************
02294>
02295>
02296>
02297>
02298>
02299>  RUN#:COMMAND#
02300> R1977:C00001------------------------------------------------------------------------------------------------
02301>      START              [TZERO =    .00 hrs on 19770401]
02302>                         [METOUT=   2   (1=imperial, 2=metric output)]
02303>                         [NSTORM=   0 ]
02304>                         [NRUN  = 1977 ]
02305> #*****************************************************************************
02306> #  SWMHYMO  / INPUT DATA FILE
02307> #*****************************************************************************
02308> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
02309> #  Date        : 04-28-2021
02310> #  Modeller    : [J.B]
02311> #  Company     : JFSAinc.
02312> #  License #   : 2549237
02313> #*****************************************************************************
02314> #*****************************************************************************
02315> #*****************************************************************************
02316> #*****************************************************************************
02317> # Ottawa International Airport - April 1st to October 31st
02318> R1977:C00002------------------------------------------------------------------------------------------------
02319>  *  READ AES DATA
02320>       [Filename  = YOW_1967_2007.123                                ]
02321>       [Start_date= 1977.0401: End_date= 1977.1031]
02322>       {DT= 60.min: Length= 5136.hrs: WetHrs=  378: DryHrs= 4758: PTOT= 532.10}
02323>       Maximum average rainfall intensities over
02324>         1 hr   2 hrs   3 hrs   6 hrs  12 hrs  24 hrs  36 hrs  48 hrs  72 hrs
02325>        21.30   15.20   10.40    6.53    3.30    1.65    1.11     .91     .73   mm/hr
02326>        21.30   30.40   31.20   39.20   39.60   39.60   39.80   43.70   52.40   mm
02327>       19770717 19770717 19770717 19770901 19770902 19770902 19770901 19771003 19770718  date
02328>       Number of rainfall events per following interevent time
02329>         1 hr   2 hrs   3 hrs   6 hrs  12 hrs  24 hrs  36 hrs  48 hrs  72 hrs
02330>          126     103      89      74      58      49      42      32      22
02331>       Number of events with at least the following durations
02332>         1 hr   2 hrs   3 hrs   6 hrs  12 hrs  24 hrs  36 hrs  48 hrs  72 hrs
02333>          125      67      46      16       3       1       0       0       0
02334> R1977:C00003------------------------------------------------------------------------------------------------
02335>      COMPUTE API
02336>       [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
02337>       {APImax= 74.80: APIavg= 25.39: APImin=  3.60}
02338> R1977:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02339>      CONTINUOUS NASHYD    5.0 01:NORTH-1        34.70      .040 1977.0902_ 2:40  191.02 .359     .000
02340>        [CN= 38.1: N= 3.00: Tp= 4.12]
02341>        [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
02342>        [InterEventTime=  12.00]
02343> R1977:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02344>      CONTINUOUS NASHYD    5.0 01:NORTH-2        12.44      .008 1977.0901_23:55  192.35 .362     .000
02345>        [CN= 53.0: N= 3.00: Tp= 1.29]
02346>        [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
02347>        [InterEventTime=  12.00]
02348> R1977:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02349>      CONTINUOUS NASHYD    5.0 01:HWY-1           2.36      .031 1977.0901_23:50  198.66 .373     .000
02350>        [CN= 81.7: N= 3.00: Tp= 1.21]
02351>        [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
02352>        [InterEventTime=  12.00]
02353> R1977:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02354>      ADD HYD              5.0 02:NORTH-1        34.70      .040 1977.0902_ 2:40  191.02  n/a     .000
02355>                     +     5.0 02:NORTH-2        12.44      .060 1977.0901_23:55  192.35  n/a     .000
02356>                     +     5.0 02:HWY-1           2.36      .031 1977.0901_23:50  198.66  n/a     .000
02357>                   SUM=    5.0 01:J1             49.51      .113 1977.0902_ 0:05  191.72  n/a     .000
02358> R1977:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02359>      ROUTE CHANNEL   ->     5.0 02:J1             49.51      .113 1977.0902_ 0:05  191.72  n/a     .000
02360>  *   [RDT= 5.00] out<-     5.0 01:R1             49.51      .110 1977.0902_ 0:20  191.72  n/a     .000
02361>       [L/S/n=  478./ .440/.035]
02362>       {Vmax=  .407:Dmax=  .175}
02363> R1977:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02364>      CONTINUOUS NASHYD    5.0 01:INT-1           4.39      .022 1977.0902_ 0:15  193.27 .363     .000
02365>        [CN= 60.4: N= 3.00: Tp= 1.66]
02366>        [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
02367>        [InterEventTime=  12.00]
02368> R1977:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02369>      CONTINUOUS NASHYD    5.0 01:INT-2           3.61      .018 1977.0901_23:40  191.76 .360     .000
02370>        [CN= 47.4: N= 3.00: Tp=  .95]
02371>        [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
02372>        [InterEventTime=  12.00]
02373> R1977:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02374>      CONTINUOUS NASHYD    5.0 01:A3A             3.84      .020 1977.0902_ 0:05  193.00 .363     .000
02375>        [CN= 58.4: N= 3.00: Tp= 1.46]
02376>        [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
02377>        [InterEventTime=  12.00]
02378> R1977:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02379>  *   CONTINUOUS STANDHYD   5.0 01:Pond3-In        1.21      .050 1977.0901_23:00  282.03 .530     .000
02380>        {XIMP=.64:TIMP=.75}
02381>        [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  Fe=****]
02382>        [Pervious     area: IAper= 4.67:SLPP=2.50:LGP= 100.:MNP=.250:SCP=   .0]
02383>        [Impervious   area: IAimp= 1.57:SLPI=2.50:LGI=  50.:MNI=.013:SCI=   .0]
02384>        [IaRECimp=  12.00: IaRECper=  12.00]
02385> R1977:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02386>      ROUTE RESERVOIR ->     5.0 02:Pond3-In        1.21      .050 1977.0901_23:00  282.03  n/a     .000
02387>                  out <=     5.0 01:Pond3-Out       1.21      .003 1977.0901_23:50  282.01  n/a     .000
02388>              overflow <=    5.0 03:Pond3-Over        .00      .000 1977.0401_ 0:00    .00  n/a     .000
02389>       {MxStoUsed=.3131E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
02390> R1977:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02391>      ADD HYD              5.0 02:Pond3-Over        .00      .000 1977.0401_ 0:00    .00  n/a     .000
02392>                     +     5.0 02:Pond3-Out       1.21      .003 1977.0901_23:50  282.01  n/a     .000
02393>                   SUM=    5.0 01:Pond3-Ditc      1.21      .003 1977.0901_23:50  282.01  n/a     .000
02394> R1977:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02395>      ROUTE CHANNEL   ->     5.0 02:Pond3-Out       1.21      .003 1977.0901_23:50  282.01  n/a     .000
02396>       [RDT= 5.00] out<-     5.0 01:A3C-R           1.21      .003 1977.0902_ 7:00  282.01  n/a     .000
02397>            [L/S/n=  500./ .140./.035]
02398>       {Vmax=  .075:Dmax=  .039}
02399> R1977:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02400>      CONTINUOUS NASHYD    5.0 01:INT-3           5.71      .044 1977.0901_23:35  193.00 .363     .000
02401>        [CN= 58.5: N= 3.00: Tp=  .89]
02402>        [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
02403>        [InterEventTime=  12.00]
02404> R1977:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02405>      ADD HYD              5.0 02:R1             49.51      .110 1977.0902_ 0:20  191.72  n/a     .000
02406>                     +     5.0 02:INT-1           4.39      .022 1977.0902_ 0:15  193.27  n/a     .000
02407>                     +     5.0 02:INT-2           3.61      .018 1977.0901_23:40  191.76  n/a     .000
02408>                     +     5.0 02:INT-3           5.71      .044 1977.0901_23:35  193.00  n/a     .000
02409>                     +     5.0 02:A3A             3.84      .020 1977.0902_ 0:05  193.00  n/a     .000
02410>                     +     5.0 02:A3C-R           1.21      .003 1977.0902_ 7:00  282.01  n/a     .000
02411>                   SUM=    5.0 01:J2             68.26      .204 1977.0902_ 0:00  193.58  n/a     .000
02412> R1977:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02413>      ROUTE CHANNEL   ->     5.0 02:J2             68.26      .204 1977.0902_ 0:00  193.58  n/a     .000
02414>       [RDT= 5.00] out<-     5.0 01:R2             68.26      .201 1977.0902_ 0:10  193.58  n/a     .000
02415>            [L/S/n=  359./ .560/.035]
02416>       {Vmax=  .456:Dmax=  .138}
02417> R1977:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02418>      CONTINUOUS NASHYD    5.0 01:A1A            21.43      .045 1977.0902_ 0:20  190.82 .359     .000
02419>        [CN= 36.1: N= 3.00: Tp= 1.68]
02420>        [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
02421>        [InterEventTime=  12.00]
02422> R1977:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02423>      CONTINUOUS STANDHYD   5.0 01:Pond1-In       10.00      .284 1977.0901_23:00  186.83 .351     .000
02424>        {XIMP=.38:TIMP=.74}
02425>        [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  Fe=****]
02426>        [Pervious     area: IAper= 4.67:SLPP=2.00:LGP= 500.:MNP=.250:SCP=   .0]
02427>        [Impervious   area: IAimp= 1.57:SLPI=1.50:LGI= 250.:MNI=.013:SCI=   .0]
02428>        [IaRECimp=  12.00: IaRECper=  12.00]
02429> R1977:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02430>      ROUTE RESERVOIR ->     5.0 02:Pond1-In       10.00      .284 1977.0901_23:00  186.83  n/a     .000
02431>                  out <=     5.0 01:Pond1-Out      10.00      .027 1977.0902_ 1:10  186.83  n/a     .000
02432>              overflow <=    5.0 03:Pond1-Over       .00      .000 1977.0401_ 0:00    .00  n/a     .000
02433>       {MxStoUsed=.163BE+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
02434> R1977:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02435>      CONTINUOUS NASHYD    5.0 01:A2             9.14      .081 1977.0901_23:50  194.49 .366     .000
02436>        [CN= 68.4: N= 3.00: Tp= 1.12]
02437>        [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
02438>        [InterEventTime=  12.00]
02439> R1977:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02440>      ADD HYD              5.0 02:R2             68.26      .201 1977.0902_ 0:10  193.58  n/a     .000
02441>                     +     5.0 02:A1A            21.43      .045 1977.0902_ 0:20  190.82  n/a     .000
02442>                     +     5.0 02:A2              9.14      .081 1977.0901_23:50  194.49  n/a     .000
02443>                     +     5.0 02:Pond1-Over       .00      .000 1977.0401_ 0:00    .00  n/a     .000
02444>                     +     5.0 02:Pond1-Out       10.00      .027 1977.0902_ 1:10  186.83  n/a     .000
02445>                   SUM=    5.0 01:J3             108.84      .348 1977.0902_ 0:05  192.49  n/a     .000
02446> R1977:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02447>      ROUTE CHANNEL   ->     5.0 02:J3             108.84      .348 1977.0902_ 0:05  192.49  n/a     .000
02448>       [RDT= 5.00] out<-     5.0 01:R3             108.84      .337 1977.0902_ 0:20  192.49  n/a     .000
02449>            [L/S/n=  396./ .305/.035]
02450>       {Vmax=  .401:Dmax=  .291}
02451> R1977:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02452>      CONTINUOUS NASHYD    5.0 01:SOUTH-1        20.21      .047 1977.0902_ 0:05  190.72 .358     .000
02453>        [CN= 35.5: N= 3.00: Tp= 1.40]
02454>        [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
02455>        [InterEventTime=  12.00]
02456> R1977:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02457>      ADD HYD            108.84      .337 1977.0902_ 0:20  192.49  n/a     .000
02458>                     +     5.0 02:SOUTH-1        20.21      .047 1977.0902_ 0:05  190.72  n/a     .000
02459>                   SUM=    5.0 01:J4             129.05      .382 1977.0902_ 0:20  192.21  n/a     .000
02460> R1977:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02461>      ROUTE CHANNEL   ->     5.0 02:J4             129.05      .382 1977.0902_ 0:20  192.21  n/a     .000
02462>       [RDT= 5.00] out<-     5.0 01:R4             129.05      .373 1977.0902_ 0:35  192.21  n/a     .000
02463>            [L/S/n=  482./ .410/.035]
02464>       {Vmax=  .527:Dmax=  .277}
02465> R1977:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02466>      CONTINUOUS NASHYD    5.0 01:SOUTH-2        11.61      .038 1977.0901_23:40  190.82 .359     .000
02467>        [CN= 36.7: N= 3.00: Tp=  .96]
02468>        [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
02469>        [InterEventTime=  12.00]
02470> R1977:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02471>      ADD HYD            129.05      .373 1977.0902_ 0:35  192.21  n/a     .000
02472>                     +     5.0 02:SOUTH-2        11.61      .038 1977.0901_23:40  190.82  n/a     .000
02473>                   SUM=    5.0 01:J5             140.66      .398 1977.0902_ 0:30  192.10  n/a     .000
02474> R1977:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02475>      ROUTE CHANNEL   ->     5.0 02:J5             140.66      .398 1977.0902_ 0:30  192.10  n/a     .000
02476>       [RDT= 5.00] out<-     5.0 01:R5             140.66      .396 1977.0902_ 0:35  192.10  n/a     .000
02477>            [L/S/n=  181./ .500/.035]
02478>       {Vmax=  .502:Dmax=  .255}
02479> R1977:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02480>      CONTINUOUS NASHYD    5.0 01:SOUTH-3         7.98      .035 1977.0901_23:35  191.33 .360     .000
02481>        [CN= 42.6: N= 3.00: Tp=  .89]
02482>        [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
02483>        [InterEventTime=  12.00]
02484> R1977:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02485>      ADD HYD            140.66      .396 1977.0902_ 0:35  192.10  n/a     .000
02486>                     +     5.0 02:SOUTH-3         7.98      .035 1977.0901_23:35  191.33  n/a     .000
02487>                   SUM=    5.0 01:J6             148.64      .416 1977.0902_ 0:30  192.05  n/a     .000
02488> R1977:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02489>      SAVE HYD           148.64      .416 1977.0902_ 0:30  192.05  n/a     .000
02490>        fname :J6.1977
02491>        remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
02492> R1977:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02493>      ROUTE CHANNEL   ->     5.0 02:J6             148.64      .416 1977.0902_ 0:30  192.05  n/a     .000
02494>       [RDT= 5.00] out<-     5.0 01:R6             148.64      .413 1977.0902_ 0:40  192.05  n/a     .000
02495>            [L/S/n=  323./ .440/.035]
02496>       {Vmax=  .551:Dmax=  .282}
02497> R1977:C00035------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02498>      CONTINUOUS NASHYD    5.0 01:SOUTH-4        14.99      .045 1977.0901_23:55  191.02 .359     .000
02499>        [CN= 39.5: N= 3.00: Tp= 1.23]
02500>        [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
02501>        [InterEventTime=  12.00]
02502> R1977:C00036------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02503>      ADD HYD            148.64      .413 1977.0902_ 0:40  192.05  n/a     .000
02504>                     +     5.0 02:SOUTH-4        14.99      .045 1977.0901_23:55  191.02  n/a     .000
02505>                   SUM=    5.0 01:Total         163.63      .449 1977.0902_ 0:35  191.95  n/a     .000
02506> ##############################################################################
02507> ##############################################################################
02508> ##############################################################################
02509> # CONTINUOUS RAINFALL DATA
02510> ##############################################################################
02511> #*****************************************************************************
02512> # STORMS
02513> #*****************************************************************************
02514>  ** END OF RUN : 1977
02515>
02516> ************************************************************************************************************
02517>
02518>
02519>
02520>
```

```
02521>
02522>  RUN#:COMMAND#
02523> R1978:C00001-------------------------------------------------------------------------------------------------
02524>      START
02525>       [TZERO =    .00 hrs on 19780401]
02526>       [METOUT=   2   (1=imperial, 2=metric output)]
02527>       [NSTORM=   0 ]
02528>       [NRUN  = 1978 ]
02529> #**************************************************************************
02530> #  SWMHYMO  / INPUT DATA FILE
02531> #**************************************************************************
02532> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
02533> #  Date       : 04-28-2021
02534> #  Modeller   : [J.B]
02535> #  Company    : JFSAinc.
02536> #  License #  :  2549237
02537> #**************************************************************************
02538> #**************************************************************************
02539> #**************************************************************************
02540> # Ottawa International Airport - April 1st to October 31st
02541> R1978:C00002-------------------------------------------------------------------------------------------------
02542>  *  READ AES DATA
02543>       [Filename  = YOW_1967_2007.123                                        ]
02544>       [Start_date= 1978.0401: End_date= 1978.1031]
02545>       {DT= 60.min: Length= 5136.hrs: WetHrs=  340: DryHrs= 4796: PTOT= 511.10}
02546>       Maximum average rainfall intensities over
02547>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
02548>        36.00    18.15    12.10     6.05     3.04     1.64     1.13      .87      .58    mm/hr
02549>        36.00    36.30    36.30    36.30    36.50    39.40    40.60    41.60    41.60    mm
02550>       19780618 19780618 19780618 19780618 19780619 19780411 19780412 19780620 19780621  date
02551>       Number of rainfall events per following interevent time
02552>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
02553>          143      118      109       89       62       50       43       38       25
02554>       Number of events with at least the following durations
02555>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
02556>          142        3       67       37       13        3        0        0        0        0
02557> R1978:C00003-------------------------------------------------------------------------------------------------
02558>      COMPUTE API
02559>       [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
02560>       {APImax= 65.37: APIavg= 24.30: APImin=  7.66}
02561> R1978:C00004-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02562>      CONTINUOUS NASHYD     5.0 01:NORTH-1       34.70     .046 1978.0618_20:55  166.47 .326     .000
02563>       [CN= 38.1: N= 3.00: Tp= 4.12]
02564>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
02565>       [InterEventTime=  12.00]
02566> R1978:C00005-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02567>      CONTINUOUS NASHYD     5.0 01:NORTH-2       12.44     .075 1978.0618_18:05  166.71 .326     .000
02568>       [CN= 53.0: N= 3.00: Tp= 1.29]
02569>       [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
02570>       [InterEventTime=  12.00]
02571> R1978:C00006-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02572>      CONTINUOUS NASHYD     5.0 01:HWY-1          2.36     .037 1978.0618_18:00  168.26 .329     .000
02573>       [CN= 81.7: N= 3.00: Tp= 1.21]
02574>       [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
02575>       [InterEventTime=  12.00]
02576> R1978:C00007-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02577>      ADD HYD               5.0 02:NORTH-1       34.70     .046 1978.0618_20:55  166.47  n/a     .000
02578>                       +    5.0 02:NORTH-2       12.44     .075 1978.0618_18:05  166.71  n/a     .000
02579>                       +    5.0 02:HWY-1          2.36     .037 1978.0618_18:00  168.26  n/a     .000
02580>                     SUM=   5.0 01:J1           49.51     .136 1978.0618_18:10  166.61  n/a     .000
02581> R1978:C00008-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02582>      ROUTE CHANNEL    ->    5.0 02:J1           49.51     .136 1978.0618_18:10  166.61  n/a     .000
02583>  *   [RDT= 5.00] out<-     5.0 01:R1           49.51     .132 1978.0618_18:30  166.61  n/a     .000
02584>       [L/S/n=  478./ .440/.035]
02585>       {Vmax=  .429:Dmax=  .189}
02586> R1978:C00009-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02587>      CONTINUOUS NASHYD     5.0 01:INT-1          4.39     .027 1978.0618_18:30  166.88 .327     .000
02588>       [CN= 60.4: N= 3.00: Tp= 1.66]
02589>       [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
02590>       [InterEventTime=  12.00]
02591> R1978:C00010-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02592>      CONTINUOUS NASHYD     5.0 01:INT-2          3.61     .024 1978.0618_17:45  166.60 .326     .000
02593>       [CN= 47.4: N= 3.00: Tp=  .95]
02594>       [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
02595>       [InterEventTime=  12.00]
02596> R1978:C00011-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02597>      CONTINUOUS NASHYD     5.0 01:A3A            3.84     .025 1978.0618_18:15  166.83 .326     .000
02598>       [CN= 58.4: N= 3.00: Tp= 1.46]
02599>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
02600>       [InterEventTime=  12.00]
02601> R1978:C00012-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02602>  *  CONTINUOUS STANDHYD    5.0 01:Pond3-In       1.21     .098 1978.0618_17:00  260.83 .510     .000
02603>       [XIMP=.64:TIMP=.75]
02604>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  Fe=****]
02605>       [Pervious     area: IAper= 4.67:SLPP=2.50:LGP= 100.:MNP=.250:SCP=   .0]
02606>       [Impervious   area: IAimp= 1.57:SLPI=2.50:LGI=  50.:MNI=.013:SCI=   .0]
02607>       [IaRECimp=  12.00: IaRECper=  12.00]
02608> R1978:C00013-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02609>      ROUTE RESERVOIR ->    5.0 02:Pond3-In       1.21     .098 1978.0618_17:00  260.83  n/a     .000
02610>                 out <=    5.0 01:Pond3-Out      1.21     .003 1978.0618_17:55  260.81  n/a     .000
02611>               overflow <=    5.0 03:Pond3-Over      .00     .000 1978.0401_ 0:00    .00  n/a     .000
02612>       {MxStoUsed=.3759E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=     0, TotDurOvf=   0.hrs}
02613> R1978:C00014-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02614>      ADD HYD               5.0 02:Pond3-Over      .00     .000 1978.0401_ 0:00    .00  n/a     .000
02615>                       +    5.0 02:Pond3-Out      1.21     .003 1978.0618_17:55  260.81  n/a     .000
02616>                     SUM=   5.0 01:Pond3-Ditc     1.21     .003 1978.0618_17:55  260.81  n/a     .000
02617> R1978:C00015-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02618>      ROUTE CHANNEL    ->    5.0 02:Pond3-Out      1.21     .003 1978.0618_17:55  260.81  n/a     .000
02619>       [RDT= 5.00] out<-     5.0 01:A3C-R          1.21     .003 1978.0619_ 2:00  260.81  n/a     .000
02620>       [L/S/n=  500./ .140/.035]
02621>       {Vmax=  .075:Dmax=  .039}
02622> R1978:C00016-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02623>      CONTINUOUS NASHYD     5.0 01:INT-3          5.71     .057 1978.0618_17:40  166.83 .326     .000
02624>       [CN= 58.5: N= 3.00: Tp=  .89]
02625>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
02626>       [InterEventTime=  12.00]
02627> R1978:C00017-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02628>      ADD HYD               5.0 02:R1            49.51     .132 1978.0618_18:30  166.61  n/a     .000
02629>                       +    5.0 02:INT-1          4.39     .027 1978.0618_18:30  166.88  n/a     .000
02630>                       +    5.0 02:INT-2          3.61     .024 1978.0618_17:45  166.60  n/a     .000
02631>                       +    5.0 02:INT-3          5.71     .057 1978.0618_17:40  166.83  n/a     .000
02632>                       +    5.0 02:A3A            3.84     .025 1978.0618_18:15  166.83  n/a     .000
02633>                       +    5.0 02:A3C-R          1.21     .003 1978.0619_ 2:00  260.81  n/a     .000
02634>                     SUM=   5.0 01:J2           68.26     .247 1978.0618_18:10  168.31  n/a     .000
02635> R1978:C00018-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02636>      ROUTE CHANNEL    ->    5.0 02:J2           68.26     .247 1978.0618_18:10  168.31  n/a     .000
02637>       [RDT= 5.00] out<-     5.0 01:R2           68.26     .245 1978.0618_18:20  168.31  n/a     .000
02638>       [L/S/n=  359./ .560/.035]
02639>       {Vmax=  .498:Dmax=  .153}
02640> R1978:C00019-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02641>      CONTINUOUS NASHYD     5.0 01:A1A           21.43     .056 1978.0618_18:30  166.43 .326     .000
02642>       [CN= 36.1: N= 3.00: Tp= 1.68]
02643>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
02644>       [InterEventTime=  12.00]
02645> R1978:C00020-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02646>      CONTINUOUS STANDHYD    5.0 01:Pond1-In      10.00     .575 1978.0618_17:00  176.39 .345     .000
02647>       [XIMP=.38:TIMP=.74]
02648>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  Fe=****]
02649>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP= 500.:MNP=.250:SCP=   .0]
02650>       [Impervious   area: IAimp= 1.57:SLPI=1.50:LGI= 250.:MNI=.013:SCI=   .0]
02651>       [IaRECimp=  12.00: IaRECper=  12.00]
02652> R1978:C00021-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02653>      ROUTE RESERVOIR ->    5.0 02:Pond1-In      10.00     .575 1978.0618_17:00  176.39  n/a     .000
02654>                 out <=    5.0 01:Pond1-Out     10.00     .030 1978.0618_19:10  176.39  n/a     .000
02655>               overflow <=    5.0 03:Pond1-Over      .00     .000 1978.0401_ 0:00    .00  n/a     .000
02656>       {MxStoUsed=.2343E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=     0, TotDurOvf=   0.hrs}
02657> R1978:C00022-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02658>      CONTINUOUS NASHYD     5.0 01:A2            9.14     .102 1978.0618_17:55  167.18 .327     .000
02659>       [CN= 68.4: N= 3.00: Tp= 1.12]
02660>       [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
02661>       [InterEventTime=  12.00]
02662> R1978:C00023-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02663>      ADD HYD               5.0 02:R2            68.26     .245 1978.0618_18:20  168.31  n/a     .000
02664>                       +    5.0 02:A1A           21.43     .056 1978.0618_18:30  166.43  n/a     .000
02665>                       +    5.0 02:A2             9.14     .102 1978.0618_17:55  167.18  n/a     .000
02666>                       +    5.0 02:Pond1-Over      .00     .000 1978.0401_ 0:00    .00  n/a     .000
02667>                     SUM=   5.0 01:Pond1-Out     10.00     .030 1978.0618_19:10  176.39  n/a     .000
02668>
02669> R1978:C00024-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02670>      ROUTE CHANNEL    ->    5.0 02:J3           108.84     .424 1978.0618_18:15  168.58  n/a     .000
02671>       [RDT= 5.00] out<-     5.0 01:R3           108.84     .408 1978.0618_18:30  168.58  n/a     .000
02672>       [L/S/n=  396./ .305/.035]
02673>       {Vmax=  .413:Dmax=  .211}
02674> R1978:C00025-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02675>      CONTINUOUS NASHYD     5.0 01:SOUTH-1       20.21     .058 1978.0618_18:15  166.42 .326     .000
02676>       [CN= 35.5: N= 3.00: Tp= 1.40]
02677>       [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
02678>       [InterEventTime=  12.00]
02679> R1978:C00026-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02680>      ADD HYD               5.0 02:R3           108.84     .408 1978.0618_18:30  168.58  n/a     .000
02681>                       +    5.0 02:SOUTH-1       20.21     .058 1978.0618_18:15  166.42  n/a     .000
02682>                     SUM=   5.0 01:J4           129.05     .465 1978.0618_18:30  168.24  n/a     .000
02683> R1978:C00027-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02684>      ROUTE CHANNEL    ->    5.0 02:J4           129.05     .465 1978.0618_18:30  168.24  n/a     .000
02685>       [RDT= 5.00] out<-     5.0 01:R4           129.05     .454 1978.0618_18:40  168.24  n/a     .000
02686>       [L/S/n=  482./ .410/.035]
02687>       {Vmax=  .548:Dmax=  .300}
02688> R1978:C00028-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02689>      CONTINUOUS NASHYD     5.0 01:SOUTH-2       11.61     .049 1978.0618_17:45  166.43 .326     .000
02690>       [CN= 36.7: N= 3.00: Tp=  .96]
02691>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
02692>       [InterEventTime=  12.00]
02693> R1978:C00029-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02694>      ADD HYD               5.0 02:R4           129.05     .454 1978.0618_18:40  168.24  n/a     .000
02695>                       +    5.0 02:SOUTH-2       11.61     .049 1978.0618_17:45  166.43  n/a     .000
02696>                     SUM=   5.0 01:J5           140.66     .484 1978.0618_18:35  168.03  n/a     .000
02697> R1978:C00030-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02698>      ROUTE CHANNEL    ->    5.0 02:J5           140.66     .484 1978.0618_18:35  168.09  n/a     .000
02699>       [RDT= 5.00] out<-     5.0 01:R5           140.66     .482 1978.0618_18:40  168.09  n/a     .000
02700>       [L/S/n=  181./ .500/.035]

02701>       {Vmax=  .519:Dmax=  .271}
02702> R1978:C00031-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02703>      CONTINUOUS NASHYD     5.0 01:SOUTH-3        7.98     .047 1978.0618_17:45  166.52 .326     .000
02704>       [CN= 42.6: N= 3.00: Tp=  .89]
02705>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
02706>       [InterEventTime=  12.00]
02707> R1978:C00032-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02708>      ADD HYD               5.0 02:R5           140.66     .482 1978.0618_18:40  168.09  n/a     .000
02709>                       +    5.0 02:SOUTH-3        7.98     .047 1978.0618_17:45  166.52  n/a     .000
02710>                     SUM=   5.0 01:J6           148.64     .507 1978.0618_18:40  168.01  n/a     .000
02711> R1978:C00033-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02712>      SAVE HYD              5.0 01:J6           148.64     .507 1978.0618_18:40  168.01  n/a     .000
02713>       fname :J6.1978
02714>       remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
02715> R1978:C00034-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02716>      ROUTE CHANNEL    ->    5.0 02:J6           148.64     .507 1978.0618_18:40  168.01  n/a     .000
02717>       [RDT= 5.00] out<-     5.0 01:R6           148.64     .503 1978.0618_18:45  168.01  n/a     .000
02718>       [L/S/n=  323./ .440/.035]
02719>       {Vmax=  .574:Dmax=  .307}
02720> R1978:C00035-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02721>      CONTINUOUS NASHYD     5.0 01:SOUTH-4       14.99     .057 1978.0618_18:05  166.47 .326     .000
02722>       [CN= 39.5: N= 3.00: Tp= 1.23]
02723>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
02724>       [InterEventTime=  12.00]
02725> R1978:C00036-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02726>      ADD HYD               5.0 02:R6           148.64     .503 1978.0618_18:45  168.01  n/a     .000
02727>                       +    5.0 02:SOUTH-4       14.99     .057 1978.0618_18:05  166.47  n/a     .000
02728>                     SUM=   5.0 01:Total       163.63     .549 1978.0618_18:45  167.87  n/a     .000
02729> #**************************************************************************
02730> #**************************************************************************
02731> ##########################################################################
02732> # CONTINUOUS RAINFALL DATA
02733> ##########################################################################
02734> #**************************************************************************
02735> # STORMS
02736> #**************************************************************************
02737>  ** END OF RUN : 1978
02738>
02739> ****************************************************************************************************
02740>
02741>
02742>
02743>
02744>
02745>  RUN#:COMMAND#
02746> R1979:C00001-------------------------------------------------------------------------------------------------
02747>      START
02748>       [TZERO =    .00 hrs on 19790401]
02749>       [METOUT=   2   (1=imperial, 2=metric output)]
02750>       [NSTORM=   0 ]
02751>       [NRUN  = 1979 ]
02752> #**************************************************************************
02753> #  SWMHYMO  / INPUT DATA FILE
02754> #**************************************************************************
02755> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
02756> #  Date       : 04-28-2021
02757> #  Modeller   : [J.B]
02758> #  Company    : JFSAinc.
02759> #  License #  :  2549237
02760> #**************************************************************************
02761> #**************************************************************************
02762> #**************************************************************************
02763> # Ottawa International Airport - April 1st to October 31st
02764> R1979:C00002-------------------------------------------------------------------------------------------------
02765>      READ AES DATA
02766>       [Filename  = YOW_1967_2007.123                                        ]
02767>       [Start_date= 1979.0401: End_date= 1979.1031]
02768>       {DT= 60.min: Length= 5136.hrs: WetHrs=  358: DryHrs= 4778: PTOT= 670.00}
02769>       Maximum average rainfall intensities over
02770>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
02771>        34.90    22.00    14.67     7.33     5.14     2.63     1.75     1.31      .88    mm/hr
02772>        34.90    44.00    44.00    44.00    61.70    63.00    63.00    63.00    63.00    mm
02773>       19790616 19790616 19790616 19790616 19790914 19790915 19790915 19790915 19790917  date
02774>       Number of rainfall events per following interevent time
02775>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
02776>          137      110       97       77       63       46       39       32       25
02777>       Number of events with at least the following durations
02778>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
02779>          136       68       40       16        3        0        0        0        0
02780> R1979:C00003-------------------------------------------------------------------------------------------------
02781>      COMPUTE API
02782>       [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
02783>       {APImax= 78.42: APIavg= 31.28: APImin=  6.94}
02784> R1979:C00004-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02785>      CONTINUOUS NASHYD     5.0 01:NORTH-1       34.70     .108 1979.0914_16:55  325.40 .486     .000
02786>       [CN= 38.1: N= 3.00: Tp= 4.12]
02787>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
02788>       [InterEventTime=  12.00]
02789> R1979:C00005-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02790>      CONTINUOUS NASHYD     5.0 01:NORTH-2       12.44     .109 1979.0616_15:05  326.42 .487     .000
02791>       [CN= 53.0: N= 3.00: Tp= 1.29]
02792>       [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
02793>       [InterEventTime=  12.00]
02794> R1979:C00006-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02795>      CONTINUOUS NASHYD     5.0 01:HWY-1          2.36     .051 1979.0616_14:55  330.13 .493     .000
02796>       [CN= 81.7: N= 3.00: Tp= 1.21]
02797>       [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
02798>       [InterEventTime=  12.00]
02799> R1979:C00007-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02800>      ADD HYD               5.0 02:NORTH-1       34.70     .108 1979.0914_16:55  325.40  n/a     .000
02801>                       +    5.0 02:NORTH-2       12.44     .109 1979.0616_15:05  326.42  n/a     .000
02802>                       +    5.0 02:HWY-1          2.36     .051 1979.0616_14:55  330.13  n/a     .000
02803>                     SUM=   5.0 01:J1           49.51     .196 1979.0914_15:45  325.88  n/a     .000
02804> R1979:C00008-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02805>      ROUTE CHANNEL    ->    5.0 02:J1           49.51     .196 1979.0914_15:45  325.88  n/a     .000
02806>       [RDT= 5.00] out<-     5.0 01:R1           49.51     .195 1979.0914_16:00  325.88  n/a     .000
02807>       [L/S/n=  478./ .440/.035]
02808>       {Vmax=  .474:Dmax=  .220}
02809> R1979:C00009-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02810>      CONTINUOUS NASHYD     5.0 01:INT-1          4.39     .038 1979.0616_15:25  327.10 .488     .000
02811>       [CN= 60.4: N= 3.00: Tp= 1.66]
02812>       [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
02813>       [InterEventTime=  12.00]
02814> R1979:C00010-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02815>      CONTINUOUS NASHYD     5.0 01:INT-2          3.61     .034 1979.0616_14:45  325.98 .487     .000
02816>       [CN= 47.4: N= 3.00: Tp=  .95]
02817>       [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
02818>       [InterEventTime=  12.00]
02819> R1979:C00011-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02820>      CONTINUOUS NASHYD     5.0 01:A3A            3.84     .035 1979.0616_15:15  326.90 .488     .000
02821>       [CN= 58.4: N= 3.00: Tp= 1.46]
02822>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
02823>       [InterEventTime=  12.00]
02824> R1979:C00012-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02825>  *  CONTINUOUS STANDHYD    5.0 01:Pond3-In       1.21     .100 1979.0616_14:00  373.14 .557     .000
02826>       [XIMP=.64:TIMP=.75]
02827>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  Fe=****]
02828>       [Pervious     area: IAper= 4.67:SLPP=2.50:LGP= 100.:MNP=.250:SCP=   .0]
02829>       [Impervious   area: IAimp= 1.57:SLPI=2.50:LGI=  50.:MNI=.013:SCI=   .0]
02830>       [IaRECimp=  12.00: IaRECper=  12.00]
02831> R1979:C00013-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02832>      ROUTE RESERVOIR ->    5.0 02:Pond3-In       1.21     .100 1979.0616_14:00  373.14  n/a     .000
02833>                 out <=    5.0 01:Pond3-Out      1.21     .003 1979.0616_14:50  373.10  n/a     .000
02834>               overflow <=    5.0 03:Pond3-Over      .00     .000 1979.0401_ 0:00    .00  n/a     .000
02835>       {MxStoUsed=.4449E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=     0, TotDurOvf=   0.hrs}
02836> R1979:C00014-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02837>      ADD HYD               5.0 02:Pond3-Over      .00     .000 1979.0401_ 0:00    .00  n/a     .000
02838>                       +    5.0 02:Pond3-Out      1.21     .003 1979.0616_14:50  373.10  n/a     .000
02839>                     SUM=   5.0 01:Pond3-Ditc     1.21     .003 1979.0616_14:50  373.10  n/a     .000
02840> R1979:C00015-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02841>      ROUTE CHANNEL    ->    5.0 02:Pond3-Out      1.21     .003 1979.0616_14:50  373.10  n/a     .000
02842>       [RDT= 5.00] out<-     5.0 01:A3C-R          1.21     .003 1979.0914_16:20  373.10  n/a     .000
02843>       [L/S/n=  500./ .140/.035]
02844>       {Vmax=  .078:Dmax=  .040}
02845> R1979:C00016-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02846>      CONTINUOUS NASHYD     5.0 01:INT-3          5.71     .082 1979.0616_14:40  326.90 .488     .000
02847>       [CN= 58.5: N= 3.00: Tp=  .89]
02848>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
02849>       [InterEventTime=  12.00]
02850> R1979:C00017-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02851>      ADD HYD               5.0 02:R1            49.51     .195 1979.0914_16:00  325.88  n/a     .000
02852>                       +    5.0 02:INT-1          4.39     .038 1979.0616_15:25  327.10  n/a     .000
02853>                       +    5.0 02:INT-2          3.61     .034 1979.0616_14:45  325.98  n/a     .000
02854>                       +    5.0 02:INT-3          5.71     .082 1979.0616_14:40  326.90  n/a     .000
02855>                       +    5.0 02:A3A            3.84     .035 1979.0616_15:15  326.90  n/a     .000
02856>                       +    5.0 02:A3C-R          1.21     .003 1979.0914_16:20  373.10  n/a     .000
02857>                     SUM=   5.0 02:J2           68.26     .354 1979.0616_15:05  326.92  n/a     .000
02858> R1979:C00018-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02859>      ROUTE CHANNEL    ->    5.0 02:J2           68.26     .354 1979.0616_15:05  326.92  n/a     .000
02860>       [RDT= 5.00] out<-     5.0 01:R2           68.26     .351 1979.0616_15:15  326.92  n/a     .000
02861>       [L/S/n=  359./ .560/.035]
02862>       {Vmax=  .558:Dmax=  .182}
02863> R1979:C00019-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02864>      CONTINUOUS NASHYD     5.0 01:A1A           21.43     .081 1979.0616_15:25  325.24 .485     .000
02865>       [CN= 36.1: N= 3.00: Tp= 1.68]
02866>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
02867>       [InterEventTime=  12.00]
02868> R1979:C00020-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02869>      CONTINUOUS STANDHYD    5.0 01:Pond1-In      10.00     .636 1979.0616_14:00  267.49 .399     .000
02870>       [XIMP=.38:TIMP=.74]
02871>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  Fe=****]
02872>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP= 500.:MNP=.250:SCP=   .0]
02873>       [Impervious   area: IAimp= 1.57:SLPI=1.50:LGI= 250.:MNI=.013:SCI=   .0]
02874>       [IaRECimp=  12.00: IaRECper=  12.00]
02875> R1979:C00021-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02876>      ROUTE RESERVOIR ->    5.0 02:Pond1-In      10.00     .636 1979.0616_14:00  267.49  n/a     .000
02877>                 out <=    5.0 01:Pond1-Out     10.00     .031 1979.0616_16:10  267.49  n/a     .000
02878>               overflow <=    5.0 03:Pond1-Over      .00     .000 1979.0401_ 0:00    .00  n/a     .000
02879>       {MxStoUsed=.2908E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=     0, TotDurOvf=   0.hrs}
02880> R1979:C00022-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
```

```
02881>     CONTINUOUS NASHYD     5.0 01:A2             9.14     .143 1979.0616_14:55  327.96 .489     .000
02882>       [CN= 68.4: N= 3.00: Tp= 1.12]
02883>       [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
02884>       [InterEventTime=  12.00]
02885> R1979:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02886>     ADD HYD               5.0 02:R2            68.26     .351 1979.0616_15:15  326.92  n/a     .000
02887>                       +   5.0 02:A1A           21.43     .081 1979.0616_15:25  325.24  n/a     .000
02888>                       +   5.0 02:A2             9.14     .143 1979.0616_14:55  327.96  n/a     .000
02889>                       +   5.0 02:Pond1-Over      .00     .000 1979.0401_ 0:00     .00  n/a     .000
02890>                       +   5.0 02:Pond1-Out     10.00     .031 1979.0616_16:10  267.49  n/a     .000
02891>                   SUM=    5.0 01:J3            108.84     .596 1979.0616_15:10  321.20  n/a     .000
02892> R1979:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02893>     ROUTE CHANNEL    ->    5.0 02:J3            108.84     .596 1979.0616_15:10  321.20  n/a     .000
02894>       [RDT= 5.00] out<-    5.0 01:R3            108.84     .577 1979.0616_15:25  321.20  n/a     .000
02895>       [L/S/n=  396./ .305/.035]
02896>       {Vmax=  .440:Dmax=  .351}
02897> R1979:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02898>     CONTINUOUS NASHYD     5.0 01:SOUTH-1       20.21     .085 1979.0616_15:10  325.16 .485     .000
02899>       [CN= 35.5: N= 3.00: Tp= 1.40]
02900>       [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
02901>       [InterEventTime=  12.00]
02902> R1979:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02903>     ADD HYD               5.0 02:R3            108.84     .577 1979.0616_15:25  321.20  n/a     .000
02904>                       +   5.0 02:SOUTH-1        20.21     .085 1979.0616_15:10  325.16  n/a     .000
02905>                   SUM=    5.0 01:J4            129.05     .660 1979.0616_15:25  321.82  n/a     .000
02906> R1979:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02907>     ROUTE CHANNEL    ->    5.0 02:J4            129.05     .660 1979.0616_15:25  321.82  n/a     .000
02908>       [RDT= 5.00] out<-    5.0 01:R4            129.05     .646 1979.0616_15:35  321.82  n/a     .000
02909>       [L/S/n=  .482./ .410/.035]
02910>       {Vmax=  .589:Dmax=  .346}
02911> R1979:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02912>     CONTINUOUS NASHYD     5.0 01:SOUTH-2       11.61     .072 1979.0616_14:45  325.24 .485     .000
02913>       [CN= 36.7: N= 3.00: Tp=  .96]
02914>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
02915>       [InterEventTime=  12.00]
02916> R1979:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02917>     ADD HYD               5.0 02:R4            129.05     .646 1979.0616_15:35  321.82  n/a     .000
02918>                       +   5.0 02:SOUTH-2       11.61     .072 1979.0616_14:45  325.24  n/a     .000
02919>                   SUM=    5.0 01:J5            140.66     .692 1979.0616_15:30  322.10  n/a     .000
02920> R1979:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02921>     ROUTE CHANNEL    ->    5.0 02:J5            140.66     .692 1979.0616_15:30  322.10  n/a     .000
02922>       [RDT= 5.00] out<-    5.0 01:R5            140.66     .691 1979.0616_15:35  322.10  n/a     .000
02923>       [L/S/n=  181./ .500/.035]
02924>       {Vmax=  .566:Dmax=  .308}
02925> R1979:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02926>     CONTINUOUS NASHYD     5.0 01:SOUTH-3        7.98     .068 1979.0616_14:40  325.64 .486     .000
02927>       [CN= 42.6: N= 3.00: Tp=  .89]
02928>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
02929>       [InterEventTime=  12.00]
02930> R1979:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02931>     ADD HYD               5.0 02:R5            140.66     .691 1979.0616_15:35  322.10  n/a     .000
02932>                       +   5.0 02:SOUTH-3        7.98     .068 1979.0616_14:40  325.64  n/a     .000
02933>                   SUM=    5.0 01:J6            148.64     .729 1979.0616_15:30  322.29  n/a     .000
02934> R1979:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02935>     SAVE HYD              5.0 01:J6            148.64     .729 1979.0616_15:30  322.29  n/a     .000
02936>       fname :J6.1979
02937>       remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
02938> R1979:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02939>     ROUTE CHANNEL    ->    5.0 02:J6            148.64     .729 1979.0616_15:30  322.29  n/a     .000
02940>       [RDT= 5.00] out<-    5.0 01:R6            148.64     .723 1979.0616_15:40  322.29  n/a     .000
02941>       [L/S/n=  323./ .440/.035]
02942>       {Vmax=  .617:Dmax=  .354}
02943> R1979:C00035------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02944>     CONTINUOUS NASHYD     5.0 01:SOUTH-4       14.99     .083 1979.0616_15:00  325.40 .486     .000
02945>       [CN= 39.5: N= 3.00: Tp= 1.23]
02946>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
02947>       [InterEventTime=  12.00]
02948> R1979:C00036------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02949>     ADD HYD               5.0 02:R6            148.64     .723 1979.0616_15:40  322.29  n/a     .000
02950>                       +   5.0 02:SOUTH-4       14.99     .083 1979.0616_15:00  325.40  n/a     .000
02951>                   SUM=    5.0 01:Total         163.63     .792 1979.0616_15:35  322.58  n/a     .000
02952> #=========================================================================
02953> #=========================================================================
02954> ##########################################################################
02955> # CONTINUOUS RAINFALL DATA
02956> ##########################################################################
02957> #*************************************************************************
02958> # STORMS
02959> #*************************************************************************
02960>  ** END OF RUN : 1979
02961>
02962> ***************************************************************************************************
02963>
02964>
02965>
02966>
02967>
02968>  RUN#:COMMAND#
02969> R1980:C00001------------------------------------------------------------------------------------------
02970>      START
02971>      [TZERO =    .00 hrs on 19800401]
02972>      [METOUT=  2   (1=imperial, 2=metric output)]
02973>      [NSTORM=  0 ]
02974>      [NRUN  = 1980 ]
02975> #*************************************************************************
02976> #  SWMHYMO  / INPUT DATA FILE
02977> #*************************************************************************
02978> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
02979> #  Date        : 04-28-2021
02980> #  Modeller    : [J.B]
02981> #  Company     : JFSAinc.
02982> #  License #   :  2549237
02983> #*************************************************************************
02984> #*************************************************************************
02985> #*************************************************************************
02986> # Ottawa International Airport - April 1st to October 31st
02987> R1980:C00002------------------------------------------------------------------------------------------
02988>  *  READ AES DATA
02989>       [Filename  = YOW_1967_2007.123                                          ]
02990>       [Start_date= 1980.0401: End_date= 1980.1031]
02991>       {DT= 60.min: Length= 5136.hrs: WetHrs=  365: DryHrs= 4771: PTOT= 541.00}
02992>       Maximum average rainfall intensities over
02993>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
02994>        15.00    9.20     6.50     4.72     3.57     1.97     1.35     1.01      .86    mm/hr
02995>        15.00   18.40    19.50    28.30    42.80    47.20    48.60    48.60    62.00    mm
02996>       19800830 19800830 19801025 19801025 19801026 19801026 19801026 19801027 19800902  date
02997>       Number of rainfall events per following interevent time
02998>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
02999>          134      112       98       82       69       55       43       38       23
03000>       Number of events with at least the following durations
03001>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
03002>          133        3       77       48        0        0        0        0        0
03003> R1980:C00003------------------------------------------------------------------------------------------
03004>      COMPUTE API
03005>       [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
03006>       {APImax= 68.72: APIavg= 24.91: APImin=  3.26}
03007> R1980:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03008>     CONTINUOUS NASHYD     5.0 01:NORTH-1       34.70     .043 1980.1026_ 3:05  162.22 .300     .000
03009>       [CN= 38.1: N= 3.00: Tp= 4.12]
03010>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
03011>       [InterEventTime=  12.00]
03012> R1980:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03013>     CONTINUOUS NASHYD     5.0 01:NORTH-2       12.44     .038 1980.1026_ 0:35  164.97 .305     .000
03014>       [CN= 53.0: N= 3.00: Tp= 1.29]
03015>       [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
03016>       [InterEventTime=  12.00]
03017> R1980:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03018>     CONTINUOUS NASHYD     5.0 01:HWY-1         2.36     .017 1980.0901_21:20  175.78 .325     .000
03019>       [CN= 81.7: N= 3.00: Tp= 1.21]
03020>       [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
03021>       [InterEventTime=  12.00]
03022> R1980:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03023>     ADD HYD               5.0 02:NORTH-1       34.70     .043 1980.1026_ 3:05  162.22  n/a     .000
03024>                       +   5.0 02:NORTH-2       12.44     .038 1980.1026_ 0:35  164.97  n/a     .000
03025>                       +   5.0 02:HWY-1          2.36     .017 1980.0901_21:20  175.78  n/a     .000
03026>                   SUM=    5.0 01:J1            49.51     .090 1980.1026_ 0:45  163.56  n/a     .000
03027> R1980:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03028>     ROUTE CHANNEL    ->    5.0 02:J1            49.51     .090 1980.1026_ 0:45  163.56  n/a     .000
03029>  *  [RDT= 5.00] out<-    5.0 01:R1            49.51     .088 1980.1026_ 1:00  163.56  n/a     .000
03030>       [L/S/n=  478./ .440/.035]
03031>       {Vmax=  .380:Dmax=  .158}
03032> R1980:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03033>     CONTINUOUS NASHYD     5.0 01:INT-1         4.39     .015 1980.1026_ 0:50  166.85 .308     .000
03034>       [CN= 60.4: N= 3.00: Tp= 1.66]
03035>       [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
03036>       [InterEventTime=  12.00]
03037> R1980:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03038>     CONTINUOUS NASHYD     5.0 01:INT-2         3.61     .010 1980.1026_ 0:25  163.76 .303     .000
03039>       [CN= 47.4: N= 3.00: Tp= .95]
03040>       [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
03041>       [InterEventTime=  12.00]
03042> R1980:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03043>     CONTINUOUS NASHYD     5.0 01:A3A           3.84     .013 1980.1026_ 0:45  166.29 .307     .000
03044>       [CN= 58.4: N= 3.00: Tp= 1.46]
03045>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
03046>       [InterEventTime=  12.00]
03047> R1980:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03048>  *  CONTINUOUS STANDHYD    5.0 01:Pond3-In      1.21     .032 1980.0830_13:40  278.62 .515     .000
03049>       [XIMP=.64:TIMP=.75]
03050>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  Fs=****]
03051>       {Pervious     area: IAper= 4.67:SLPP=2.50:LGP= 100.:MNP=.250:SCP=   .0}
03052>       {Impervious   area: IAimp= 1.57:SLPI=2.50:LGI=  50.:MNI=.013:SCI=   .0}
03053>       [IaRECimp=  12.00: IaRECper=  12.00]
03054> R1980:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03055>     ROUTE RESERVOIR  ->    5.0 02:Pond3-In      1.21     .032 1980.0830_13:40  278.62  n/a     .000
03056>                out <=    5.0 01:Pond3-Out     1.21     .003 1980.1026_ 0:05  278.60  n/a     .000
03057>           overflow <=    5.0 03:Pond3-Over     .00     .000 1980.0401_ 0:00     .00  n/a     .000
03058>       {MxStoUsed=.2638E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
03059> R1980:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03060>     ADD HYD               5.0 02:Pond3-Over     .00     .000 1980.0401_ 0:00     .00  n/a     .000
03061>                       +   5.0 02:Pond3-Out      1.21     .003 1980.1026_ 0:05  278.60  n/a     .000
03062>                   SUM=    5.0 01:Pond3-Ditc     1.21     .003 1980.1026_ 0:05  278.60  n/a     .000
03063> R1980:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03064>     ROUTE CHANNEL    ->    5.0 02:Pond3-Out      1.21     .003 1980.1026_ 0:05  278.60  n/a     .000
03065>       [RDT= 5.00] out<-    5.0 01:A3C-R          1.21     .003 1980.1026_ 3:10  278.60  n/a     .000
03066>       [L/S/n=  500./ .140/.035]
03067>       {Vmax=  .075:Dmax=  .038}
03068> R1980:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03069>     CONTINUOUS NASHYD     5.0 01:INT-3         5.71     .024 1980.0901_21:05  166.29 .307     .000
03070>       [CN= 58.5: N= 3.00: Tp=  .89]
03071>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
03072>       [InterEventTime=  12.00]
03073> R1980:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03074>     ADD HYD               5.0 02:R1            49.51     .088 1980.1026_ 1:00  163.56  n/a     .000
03075>                       +   5.0 02:INT-1          4.39     .015 1980.1026_ 0:50  166.85  n/a     .000
03076>                       +   5.0 02:INT-2          3.61     .010 1980.1026_ 0:25  163.76  n/a     .000
03077>                       +   5.0 02:INT-3          5.71     .024 1980.0901_21:05  166.29  n/a     .000
03078>                       +   5.0 02:A3A            3.84     .013 1980.1026_ 0:45  166.29  n/a     .000
03079>                       +   5.0 02:A3C-R          1.21     .003 1980.1026_ 3:10  278.60  n/a     .000
03080>                   SUM=    5.0 01:J2            68.26     .149 1980.1026_ 0:40  166.18  n/a     .000
03081> R1980:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03082>     ROUTE CHANNEL    ->    5.0 02:J2            68.26     .149 1980.1026_ 0:40  166.18  n/a     .000
03083>       [RDT= 5.00] out<-    5.0 01:R2            68.26     .148 1980.1026_ 0:50  166.18  n/a     .000
03084>       [L/S/n=  359./ .560/.035]
03085>       {Vmax=  .412:Dmax=  .120}
03086> R1980:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03087>     CONTINUOUS NASHYD     5.0 01:A1A           21.43     .034 1980.1026_ 0:55  161.80 .299     .000
03088>       [CN= 36.1: N= 3.00: Tp= 1.68]
03089>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
03090>       [InterEventTime=  12.00]
03091> R1980:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03092>     CONTINUOUS STANDHYD    5.0 01:Pond1-In      10.00     .160 1980.0830_14:00  172.05 .318     .000
03093>       [XIMP=.38:TIMP=.74]
03094>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  Fs=****]
03095>       {Pervious     area: IAper= 4.67:SLPP=2.00:LGP= 500.:MNP=.250:SCP=   .0}
03096>       {Impervious   area: IAimp= 1.57:SLPI=1.50:LGI= 250.:MNI=.013:SCI=   .0}
03097>       [IaRECimp=  12.00: IaRECper=  12.00]
03098> R1980:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03099>     ROUTE RESERVOIR  ->    5.0 02:Pond1-In      10.00     .160 1980.0830_14:00  172.05  n/a     .000
03100>                out <=    5.0 01:Pond1-Out     10.00     .024 1980.1026_ 0:10  172.05  n/a     .000
03101>           overflow <=    5.0 03:Pond1-Over     .00     .000 1980.0401_ 0:00     .00  n/a     .000
03102>       {MxStoUsed=.8569E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
03103> R1980:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03104>     CONTINUOUS NASHYD     5.0 01:A2            9.14     .046 1980.1026_ 0:30  169.30 .313     .000
03105>       [CN= 68.4: N= 3.00: Tp= 1.12]
03106>       [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
03107>       [InterEventTime=  12.00]
03108> R1980:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03109>     ADD HYD               5.0 02:R2            68.26     .148 1980.1026_ 0:50  166.18  n/a     .000
03110>                       +   5.0 02:A1A           21.43     .034 1980.1026_ 0:55  161.80  n/a     .000
03111>                       +   5.0 02:A2             9.14     .046 1980.1026_ 0:30  169.30  n/a     .000
03112>                       +   5.0 02:Pond1-Over      .00     .000 1980.0401_ 0:00     .00  n/a     .000
03113>                       +   5.0 02:Pond1-Out     10.00     .024 1980.1026_ 0:10  172.05  n/a     .000
03114>                   SUM=    5.0 01:J3            108.84     .249 1980.1026_ 0:45  166.11  n/a     .000
03115> R1980:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03116>     ROUTE CHANNEL    ->    5.0 02:J3            108.84     .249 1980.1026_ 0:45  166.11  n/a     .000
03117>       [RDT= 5.00] out<-    5.0 01:R3            108.84     .246 1980.1026_ 1:00  166.11  n/a     .000
03118>       [L/S/n=  396./ .305/.035]
03119>       {Vmax=  .388:Dmax=  .252}
03120> R1980:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03121>     CONTINUOUS NASHYD     5.0 01:SOUTH-1       20.21     .033 1980.1026_ 0:45  161.60 .299     .000
03122>       [CN= 35.5: N= 3.00: Tp= 1.40]
03123>       [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
03124>       [InterEventTime=  12.00]
03125> R1980:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03126>     ADD HYD               5.0 02:R3            108.84     .246 1980.1026_ 1:00  166.11  n/a     .000
03127>                       +   5.0 02:SOUTH-1       20.21     .033 1980.1026_ 0:45  161.60  n/a     .000
03128>                   SUM=    5.0 01:J4            129.05     .278 1980.1026_ 1:00  165.41  n/a     .000
03129> R1980:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03130>     ROUTE CHANNEL    ->    5.0 02:J4            129.05     .278 1980.1026_ 1:00  165.41  n/a     .000
03131>       [RDT= 5.00] out<-    5.0 01:R4            129.05     .276 1980.1026_ 1:05  165.41  n/a     .000
03132>       [L/S/n=  482./ .410/.035]
03133>       {Vmax=  .500:Dmax=  .246}
03134> R1980:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03135>     CONTINUOUS NASHYD     5.0 01:SOUTH-2       11.61     .022 1980.1026_ 0:25  161.80 .299     .000
03136>       [CN= 36.7: N= 3.00: Tp=  .96]
03137>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
03138>       [InterEventTime=  12.00]
03139> R1980:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03140>     ADD HYD               5.0 02:R4            129.05     .276 1980.1026_ 1:05  165.41  n/a     .000
03141>                       +   5.0 02:SOUTH-2       11.61     .022 1980.1026_ 0:25  161.80  n/a     .000
03142>                   SUM=    5.0 01:J5            140.66     .295 1980.1026_ 1:05  165.11  n/a     .000
03143> R1980:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03144>     ROUTE CHANNEL    ->    5.0 02:J5            140.66     .295 1980.1026_ 1:05  165.11  n/a     .000
03145>       [RDT= 5.00] out<-    5.0 01:R5            140.66     .294 1980.1026_ 1:10  165.11  n/a     .000
03146>       [L/S/n=  181./ .500/.035]
03147>       {Vmax=  .483:Dmax=  .236}
03148> R1980:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03149>     CONTINUOUS NASHYD     5.0 01:SOUTH-3        7.98     .020 1980.1026_ 0:25  162.86 .301     .000
03150>       [CN= 42.6: N= 3.00: Tp=  .89]
03151>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
03152>       [InterEventTime=  12.00]
03153> R1980:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03154>     ADD HYD               5.0 02:R5            140.66     .294 1980.1026_ 1:10  165.11  n/a     .000
03155>                       +   5.0 02:SOUTH-3        7.98     .020 1980.1026_ 0:25  162.86  n/a     .000
03156>                   SUM=    5.0 01:J6            148.64     .310 1980.1026_ 1:05  164.99  n/a     .000
03157> R1980:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03158>     SAVE HYD              5.0 01:J6            148.64     .310 1980.1026_ 1:05  164.99  n/a     .000
03159>       fname :J6.1980
03160>       remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
03161> R1980:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03162>     ROUTE CHANNEL    ->    5.0 02:J6            148.64     .310 1980.1026_ 1:05  164.99  n/a     .000
03163>       [RDT= 5.00] out<-    5.0 01:R6            148.64     .308 1980.1026_ 1:10  164.99  n/a     .000
03164>       [L/S/n=  323./ .440/.035]
03165>       {Vmax=  .527:Dmax=  .253}
03166> R1980:C00035------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03167>     CONTINUOUS NASHYD     5.0 01:SOUTH-4       14.99     .029 1980.1026_ 0:35  162.22 .300     .000
03168>       [CN= 39.5: N= 3.00: Tp= 1.23]
03169>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
03170>       [InterEventTime=  12.00]
03171> R1980:C00036------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03172>     ADD HYD               5.0 02:R6            148.64     .308 1980.1026_ 1:10  164.99  n/a     .000
03173>                       +   5.0 02:SOUTH-4       14.99     .029 1980.1026_ 0:35  162.22  n/a     .000
03174>                   SUM=    5.0 01:Total         163.63     .335 1980.1026_ 1:05  164.74  n/a     .000
03175> #=========================================================================
03176> #=========================================================================
03177> ##########################################################################
03178> # CONTINUOUS RAINFALL DATA
03179> ##########################################################################
03180> #*************************************************************************
03181> # STORMS
03182> #*************************************************************************
03183>  ** END OF RUN : 1980
03184>
03185> ***************************************************************************************************
03186>
03187>
03188>
03189>
03190>
03191>  RUN#:COMMAND#
03192> R1981:C00001------------------------------------------------------------------------------------------
03193>      START
03194>      [TZERO =    .00 hrs on 19810401]
03195>      [METOUT=  2   (1=imperial, 2=metric output)]
03196>      [NSTORM=  0 ]
03197>      [NRUN  = 1981 ]
03198> #*************************************************************************
03199> #  SWMHYMO  / INPUT DATA FILE
03200> #*************************************************************************
03201> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
03202> #  Date        : 04-28-2021
03203> #  Modeller    : [J.B]
03204> #  Company     : JFSAinc.
03205> #  License #   :  2549237
03206> #*************************************************************************
03207> #*************************************************************************
03208> #*************************************************************************
03209> # Ottawa International Airport - April 1st to October 31st
03210> R1981:C00002------------------------------------------------------------------------------------------
03211>  *  READ AES DATA
03212>       [Filename  = YOW_1967_2007.123                                          ]
03213>       [Start_date= 1981.0401: End_date= 1981.1031]
03214>       {DT= 60.min: Length= 5136.hrs: WetHrs=  488: DryHrs= 4648: PTOT= 817.80}
03215>       Maximum average rainfall intensities over
03216>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
03217>        35.30    31.85    26.20    18.15     9.27     4.83     3.22     2.41     1.62    mm/hr
03218>        35.30    63.70    78.60   108.90   111.30   115.90   115.90   115.90   116.70    mm
03219>       19810805 19810805 19810805 19810805 19810805 19810805 19810805 19810806 19810805  date
03220>       Number of rainfall events per following interevent time
03221>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
03222>          183      139      112       90       68       54       46       37       22
03223>       Number of events with at least the following durations
03224>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
03225>          182      101       63       19        5        0        0        0        0
03226> R1981:C00003------------------------------------------------------------------------------------------
03227>      COMPUTE API
03228>       [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
03229>       {APImax=123.49: APIavg= 37.01: APImin=  7.43}
03230> R1981:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03231>     CONTINUOUS NASHYD     5.0 01:NORTH-1       34.70     .462 1981.0805_ 6:50  376.10 .460     .000
03232>       [CN= 38.1: N= 3.00: Tp= 4.12]
03233>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
03234>       [InterEventTime=  12.00]
03235> R1981:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03236>     CONTINUOUS NASHYD     5.0 01:NORTH-2       12.44     .452 1981.0805_ 3:25  378.35 .463     .000
03237>       [CN= 53.0: N= 3.00: Tp= 1.29]
03238>       [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
03239>       [InterEventTime=  12.00]
03240> R1981:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
```

```
03241>     CONTINUOUS NASHYD     5.0 01:HWY-1         2.36     .143 1981.0805_ 2:55  386.88 .473     .000
03242>       [CN= 81.7: N= 3.00: Tp= 1.21]
03243>       [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
03244>       [InterEventTime=  12.00]
03245> R1981:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03246>     ADD HYD               5.0 02:NORTH-1       34.70     .462 1981.0805_ 6:50  376.10  n/a     .000
03247>                       +   5.0 02:NORTH-2       12.44     .452 1981.0805_ 3:25  378.35  n/a     .000
03248>                       +   5.0 02:HWY-1         2.36     .143 1981.0805_ 2:55  386.88  n/a     .000
03249>                     SUM=  5.0 01:J1           49.51     .829 1981.0805_ 4:30  377.18  n/a     .000
03250> R1981:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03251>     ROUTE CHANNEL    ->    5.0 02:J1           49.51     .829 1981.0805_ 4:30  377.18  n/a     .000
03252> *   [RDT= 5.00] out<-     5.0 01:R1           49.51     .826 1981.0805_ 4:45  377.18  n/a     .000
03253>       [L/S/n=  478./ .440/.035]
03254>       {Vmax=  .615:Dmax=  .400}
03255> R1981:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03256>     CONTINUOUS NASHYD     5.0 01:INT-1         4.39     .163 1981.0805_ 3:55  379.86 .465     .000
03257>       [CN= 60.4: N= 3.00: Tp= 1.66]
03258>       [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
03259>       [InterEventTime=  12.00]
03260> R1981:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03261>     CONTINUOUS NASHYD     5.0 01:INT-2         3.61     .133 1981.0805_ 2:45  377.37 .461     .000
03262>       [CN= 47.4: N= 3.00: Tp=  .95]
03263>       [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
03264>       [InterEventTime=  12.00]
03265> R1981:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03266>     CONTINUOUS NASHYD     5.0 01:A3A           3.84     .146 1981.0805_ 3:35  379.42 .464     .000
03267>       [CN= 58.4: N= 3.00: Tp= 1.46]
03268>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
03269>       [InterEventTime=  12.00]
03270> R1981:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03271> *   CONTINUOUS STANDHYD    5.0 01:Pond3-In      1.21     .106 1981.0805_ 2:00  460.88 .564     .000
03272>       [XIMP=.64:TIMP=.75]
03273>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  Fe=***]
03274>       [Pervious     area: IAper= 4.67:SLPP=2.50:LGP= 100.:MNP=.250:SCP=   .0]
03275>       [Impervious   area: IAimp= 1.57:SLPI=2.50:LGI=  50.:MNI=.013:SCI=   .0]
03276>       [IaRECimp=  12.00: IaRECper=  12.00]
03277> R1981:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03278>     ROUTE RESERVOIR ->    5.0 02:Pond3-In      1.21     .106 1981.0805_ 2:00  460.88  n/a     .000
03279>                     out <=  5.0 01:Pond3-Out   1.21     .029 1981.0805_ 3:45  460.84  n/a     .000
03280>           overflow <=     5.0 03:Pond3-Over     .00     .000 1981.0401_ 0:00    .00  n/a     .000
03281>       {MxStoUsed=.9113E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
03282> R1981:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03283>     ADD HYD               5.0 02:Pond3-Over     .00     .000 1981.0401_ 0:00    .00  n/a     .000
03284>                       +   5.0 02:Pond3-Out     1.21     .029 1981.0805_ 3:45  460.84  n/a     .000
03285>                     SUM=  5.0 01:Pond3-Ditc    1.21     .029 1981.0805_ 3:45  460.84  n/a     .000
03286> R1981:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03287>     ROUTE CHANNEL    ->    5.0 02:Pond3-Out     1.21     .029 1981.0805_ 3:45  460.84  n/a     .000
03288>       [RDT= 5.00] out<-     5.0 01:A3C-R         1.21     .024 1981.0805_ 4:05  460.84  n/a     .000
03289>         [L/S/n=  500./ .140/.035]
03290>         {Vmax=  .185:Dmax=  .107}
03291> R1981:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03292>     CONTINUOUS NASHYD     5.0 01:INT-3         5.71     .281 1981.0805_ 2:40  379.41 .464     .000
03293>       [CN= 58.5: N= 3.00: Tp=  .89]
03294>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
03295>       [InterEventTime=  12.00]
03296> R1981:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03297>     ADD HYD               5.0 02:R1           49.51     .826 1981.0805_ 4:45  377.18  n/a     .000
03298>                       +   5.0 02:INT-1         4.39     .163 1981.0805_ 3:55  379.86  n/a     .000
03299>                       +   5.0 02:INT-2         3.61     .133 1981.0805_ 2:45  377.37  n/a     .000
03300>                       +   5.0 02:INT-3         5.71     .281 1981.0805_ 2:40  379.42  n/a     .000
03301>                       +   5.0 02:A3A           3.84     .146 1981.0805_ 3:35  379.41  n/a     .000
03302>                       +   5.0 02:A3C-R         1.21     .024 1981.0805_ 4:05  460.84  n/a     .000
03303>                     SUM=  5.0 01:J2           68.26    1.455 1981.0805_ 3:40  379.13  n/a     .000
03304> R1981:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03305>     ROUTE CHANNEL    ->    5.0 02:J2           68.26    1.455 1981.0805_ 3:40  379.13  n/a     .000
03306>       [RDT= 5.00] out<-     5.0 01:R2           68.26    1.454 1981.0805_ 3:45  379.13  n/a     .000
03307>         [L/S/n=  359./ .560/.035]
03308>         {Vmax=  .881:Dmax=  .371}
03309> R1981:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03310>     CONTINUOUS NASHYD     5.0 01:A1A           21.43     .451 1981.0805_ 4:25  375.76 .459     .000
03311>       [CN= 36.1: N= 3.00: Tp= 1.68]
03312>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
03313>       [InterEventTime=  12.00]
03314> R1981:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03315>     CONTINUOUS STANDHYD    5.0 01:Pond1-In     10.00     .797 1981.0805_ 2:00  331.69 .406     .000
03316>       [XIMP=.38:TIMP=.74]
03317>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  Fe=***]
03318>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP= 500.:MNP=.250:SCP=   .0]
03319>       [Impervious   area: IAimp= 1.57:SLPI=1.50:LGI= 250.:MNI=.013:SCI=   .0]
03320>       [IaRECimp=  12.00: IaRECper=  12.00]
03321> R1981:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03322>     ROUTE RESERVOIR ->    5.0 02:Pond1-In     10.00     .797 1981.0805_ 2:00  331.69  n/a     .000
03323>                     out <=  5.0 01:Pond1-Out   9.74     .038 1981.0805_ 3:45  331.69  n/a     .000
03324>           overflow <=     5.0 03:Pond1-Over     .26     .257 1981.0805_ 3:45  331.69  n/a     .000
03325>       {MxStoUsed=.6770E+00  m3, TotOvfVol=.8628E-01  m3, N-Ovf=    2, TotDurOvf=    2.hrs}
03326> R1981:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03327>     CONTINUOUS NASHYD     5.0 01:A2            9.14     .472 1981.0805_ 2:55  381.84 .467     .000
03328>       [CN= 68.4: N= 3.00: Tp= 1.12]
03329>       [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
03330>       [InterEventTime=  12.00]
03331> R1981:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03332>     ADD HYD               5.0 02:R2           68.26    1.454 1981.0805_ 3:45  379.13  n/a     .000
03333>                       +   5.0 02:A1A          21.43     .451 1981.0805_ 4:25  375.76  n/a     .000
03334>                       +   5.0 02:A2            9.14     .472 1981.0805_ 2:55  381.84  n/a     .000
03335>                       +   5.0 02:Pond1-Over     .26     .257 1981.0805_ 3:45  331.69  n/a     .000
03336>                       +   5.0 02:Pond1-Out      9.74     .038 1981.0805_ 3:45  331.69  n/a     .000
03337>                     SUM=  5.0 01:J3           108.84    2.602 1981.0805_ 3:45  374.32  n/a     .000
03338> R1981:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03339>     ROUTE CHANNEL    ->    5.0 02:J3           108.84    2.602 1981.0805_ 3:45  374.32  n/a     .000
03340>       [RDT= 5.00] out<-     5.0 01:R3           108.84    2.546 1981.0805_ 4:00  374.32  n/a     .000
03341>         [L/S/n=  396./ .305/.035]
03342>         {Vmax=  .634:Dmax=  .265}
03343> R1981:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03344>     CONTINUOUS NASHYD     5.0 01:SOUTH-1      20.21     .434 1981.0805_ 3:45  375.59 .459     .000
03345>       [CN= 35.5: N= 3.00: Tp= 1.40]
03346>       [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
03347>       [InterEventTime=  12.00]
03348> R1981:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03349>     ADD HYD               5.0 02:R3           108.84    2.546 1981.0805_ 4:00  374.32  n/a     .000
03350>                       +   5.0 02:SOUTH-1      20.21     .434 1981.0805_ 3:45  375.59  n/a     .000
03351>                     SUM=  5.0 01:J4           129.05    2.978 1981.0805_ 4:00  374.52  n/a     .000
03352> R1981:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03353>     ROUTE CHANNEL    ->    5.0 02:J4           129.05    2.978 1981.0805_ 4:00  374.52  n/a     .000
03354>       [RDT= 5.00] out<-     5.0 01:R4           129.05    2.951 1981.0805_ 4:10  374.52  n/a     .000
03355>         [L/S/n=  482./ .410/.035]
03356>         {Vmax=  .774:Dmax=  .615}
03357> R1981:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03358>     CONTINUOUS NASHYD     5.0 01:SOUTH-2      11.61     .306 1981.0805_ 2:50  375.76 .459     .000
03359>       [CN= 36.7: N= 3.00: Tp=  .96]
03360>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
03361>       [InterEventTime=  12.00]
03362> R1981:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03363>     ADD HYD               5.0 02:R4           129.05    2.951 1981.0805_ 4:10  374.52  n/a     .000
03364>                       +   5.0 02:SOUTH-2      11.61     .306 1981.0805_ 2:50  375.76  n/a     .000
03365>                     SUM=  5.0 01:J5           140.66    3.210 1981.0805_ 4:10  374.63  n/a     .000
03366> R1981:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03367>     ROUTE CHANNEL    ->    5.0 02:J5           140.66    3.210 1981.0805_ 4:10  374.63  n/a     .000
03368>       [RDT= 5.00] out<-     5.0 01:R5           140.66    3.206 1981.0805_ 4:15  374.62  n/a     .000
03369>         [L/S/n=  181./ .500/.035]
03370>         {Vmax=  .721:Dmax=  .524}
03371> R1981:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03372>     CONTINUOUS NASHYD     5.0 01:SOUTH-3       7.98     .269 1981.0805_ 2:45  376.63 .461     .000
03373>       [CN= 42.6: N= 3.00: Tp=  .89]
03374>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
03375>       [InterEventTime=  12.00]
03376> R1981:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03377>     ADD HYD               5.0 02:R5           140.66    3.206 1981.0805_ 4:15  374.62  n/a     .000
03378>                       +   5.0 02:SOUTH-3       7.98     .269 1981.0805_ 2:45  376.63  n/a     .000
03379>                     SUM=  5.0 01:J6           148.64    3.411 1981.0805_ 4:15  374.71  n/a     .000
03380> R1981:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03381>     SAVE HYD              5.0 01:J6           148.64    3.411 1981.0805_ 4:15  374.71  n/a     .000
03382>       fname :J6.1981
03383>       remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
03384> R1981:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03385>     ROUTE CHANNEL    ->    5.0 02:J6           148.64    3.411 1981.0805_ 4:15  374.71  n/a     .000
03386>       [RDT= 5.00] out<-     5.0 01:R6           148.64    3.403 1981.0805_ 4:20  374.71  n/a     .000
03387>         [L/S/n=  323./ .440/.035]
03388>         {Vmax=  .816:Dmax=  .640}
03389> R1981:C00035------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03390>     CONTINUOUS NASHYD     5.0 01:SOUTH-4      14.99     .386 1981.0805_ 3:30  376.10 .460     .000
03391>       [CN= 39.5: N= 3.00: Tp= 1.23]
03392>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
03393>       [InterEventTime=  12.00]
03394> R1981:C00036------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03395>     ADD HYD               5.0 02:R6           148.64    3.403 1981.0805_ 4:20  374.71  n/a     .000
03396>                       +   5.0 02:SOUTH-4      14.99     .386 1981.0805_ 3:30  376.10  n/a     .000
03397>                     SUM=  5.0 01:Total        163.63    3.765 1981.0805_ 4:20  374.84  n/a     .000
03398> #============================================================================
03399> #============================================================================
03400> ############################################################################
03401> # CONTINUOUS RAINFALL DATA
03402> ############################################################################
03403> #****************************************************************************
03404> # STORMS
03405> #****************************************************************************
03406>   ** END OF RUN : 1981
03407>
03408> ****************************************************************************************************
03409>
03410>
03411>
03412>
03413>
03414>  RUN#:COMMAND#
03415> R1982:C00001------------------------------------------------------------------------------------------
03416>       START
03417>       [TZERO =    .00 hrs on 19820401]
03418>       [METOUT=   2   (1=imperial, 2=metric output)]
03419>       [NSTORM=   0 ]
03420>       [NRUN  = 1982 ]
```

```
03421> #*************************************************************************
03422> #  SWMHYMO  / INPUT DATA FILE
03423> #*************************************************************************
03424> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
03425> #  Date        : 04-28-2021
03426> #  Modeller    : [J.B]
03427> #  Company     : JFSAinc.
03428> #  License #   :  2549237
03429> #*************************************************************************
03430> #*************************************************************************
03431> #*************************************************************************
03432> # Ottawa International Airport - April 1st to October 31st
03433> R1982:C00002------------------------------------------------------------------------------------------
03434>   *  READ AES DATA
03435>       [Filename  = YOW_1967_2007.123                                          ]
03436>       [Start_date= 1982.0401: End_date= 1982.1031]
03437>       [DT= 60.min: Length= 5136.hrs: WetHrs=  311: DryHrs= 4825: PTOT= 461.10}
03438>       Maximum average rainfall intensities over
03439>         1 hr     2 hrs     3 hrs     6 hrs    12 hrs    24 hrs    36 hrs    48 hrs    72 hrs
03440>        19.80     10.75     7.60      5.83      3.36      1.68      1.12      .96       .80    mm/hr
03441>        19.80     21.50     22.80     35.00     40.30     40.30     40.30     46.30     57.30    mm
03442>       19820801 19820901 19820825 19820825 19820825 19820826 19820826 19820825 19820825  date
03443>       Number of rainfall events per following interevent time
03444>         1 hr     2 hrs     3 hrs     6 hrs    12 hrs    24 hrs    36 hrs    48 hrs    72 hrs
03445>          105        84        77        60        52        47        38        35        27
03446>       Number of events with at least the following durations
03447>         1 hr     2 hrs     3 hrs     6 hrs    12 hrs    24 hrs    36 hrs    48 hrs    72 hrs
03448>          105        63        42        14         3         0         0         0         0
03449> R1982:C00003------------------------------------------------------------------------------------------
03450>       COMPUTE API
03451>       [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
03452>       [APImax= 56.66: APIcap= 22.47: APImin=  4.83]
03453> R1982:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03454>     CONTINUOUS NASHYD     5.0 01:NORTH-1       34.70     .046 1982.0825_15:55  151.22 .328     .000
03455>       [CN= 38.1: N= 3.00: Tp= 4.12]
03456>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
03457>       [InterEventTime=  12.00]
03458> R1982:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03459>     CONTINUOUS NASHYD     5.0 01:NORTH-2       12.44     .045 1982.0825_12:35  151.56 .329     .000
03460>       [CN= 53.0: N= 3.00: Tp= 1.29]
03461>       [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
03462>       [InterEventTime=  12.00]
03463> R1982:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03464>     CONTINUOUS NASHYD     5.0 01:HWY-1         2.36     .022 1982.0825_12:15  153.21 .332     .000
03465>       [CN= 81.7: N= 3.00: Tp= 1.21]
03466>       [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
03467>       [InterEventTime=  12.00]
03468> R1982:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03469>     ADD HYD               5.0 02:NORTH-1       34.70     .046 1982.0825_15:55  151.22  n/a     .000
03470>                       +   5.0 02:NORTH-2       12.44     .045 1982.0825_12:35  151.56  n/a     .000
03471>                       +   5.0 02:HWY-1         2.36     .022 1982.0825_12:15  153.21  n/a     .000
03472>                     SUM=  5.0 01:J1           49.51     .095 1982.0825_13:20  151.40  n/a     .000
03473> R1982:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03474>     ROUTE CHANNEL    ->    5.0 02:J1           49.51     .095 1982.0825_13:20  151.40  n/a     .000
03475>       [RDT= 5.00] out<-     5.0 01:R1           49.51     .094 1982.0825_13:35  151.40  n/a     .000
03476>         [L/S/n=  478./ .440/.035]
03477>         {Vmax=  .385:Dmax=  .162}
03478> R1982:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03479>     CONTINUOUS NASHYD     5.0 01:INT-1         4.39     .018 1982.0825_13:10  151.81 .329     .000
03480>       [CN= 60.4: N= 3.00: Tp= 1.66]
03481>       [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
03482>       [InterEventTime=  12.00]
03483> R1982:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03484>     CONTINUOUS NASHYD     5.0 01:INT-2         3.61     .012 1982.0825_11:50  151.41 .328     .000
03485>       [CN= 47.4: N= 3.00: Tp=  .95]
03486>       [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
03487>       [InterEventTime=  12.00]
03488> R1982:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03489>     CONTINUOUS NASHYD     5.0 01:A3A           3.84     .016 1982.0825_12:45  151.73 .329     .000
03490>       [CN= 58.4: N= 3.00: Tp= 1.46]
03491>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
03492>       [InterEventTime=  12.00]
03493> R1982:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03494> *   CONTINUOUS STANDHYD    5.0 01:Pond3-In      1.21     .043 1982.0801_19:00  237.19 .514     .000
03495>       [XIMP=.64:TIMP=.75]
03496>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  Fe=***]
03497>       [Pervious     area: IAper= 4.67:SLPP=2.50:LGP= 100.:MNP=.250:SCP=   .0]
03498>       [Impervious   area: IAimp= 1.57:SLPI=2.50:LGI=  50.:MNI=.013:SCI=   .0]
03499>       [IaRECimp=  12.00: IaRECper=  12.00]
03500> R1982:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03501>     ROUTE RESERVOIR ->    5.0 02:Pond3-In      1.21     .043 1982.0801_19:00  237.19  n/a     .000
03502>                     out <=  5.0 01:Pond3-Out   1.21     .003 1982.0825_14:00  237.17  n/a     .000
03503>           overflow <=     5.0 03:Pond3-Over     .00     .000 1982.0401_ 0:00    .00  n/a     .000
03504>       {MxStoUsed=.3121E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
03505> R1982:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03506>     ADD HYD               5.0 02:Pond3-Over     .00     .000 1982.0401_ 0:00    .00  n/a     .000
03507>                       +   5.0 02:Pond3-Out     1.21     .003 1982.0825_14:00  237.17  n/a     .000
03508>                     SUM=  5.0 01:Pond3-Ditc    1.21     .003 1982.0825_14:00  237.17  n/a     .000
03509> R1982:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03510>     ROUTE CHANNEL    ->    5.0 02:Pond3-Out     1.21     .003 1982.0825_14:00  237.17  n/a     .000
03511>       [RDT= 5.00] out<-     5.0 01:A3C-R         1.21     .003 1982.0825_18:00  237.17  n/a     .000
03512>         [L/S/n=  500./ .140/.035]
03513>         {Vmax=  .075:Dmax=  .033}
03514> R1982:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03515>     CONTINUOUS NASHYD     5.0 01:INT-3         5.71     .028 1982.0825_11:45  151.73 .329     .000
03516>       [CN= 58.5: N= 3.00: Tp=  .89]
03517>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
03518>       [InterEventTime=  12.00]
03519> R1982:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03520>     ADD HYD               5.0 02:R1           49.51     .094 1982.0825_13:35  151.40  n/a     .000
03521>                       +   5.0 02:INT-1         4.39     .018 1982.0825_13:10  151.81  n/a     .000
03522>                       +   5.0 02:INT-2         3.61     .012 1982.0825_11:50  151.41  n/a     .000
03523>                       +   5.0 02:INT-3         5.71     .028 1982.0825_11:45  151.73  n/a     .000
03524>                       +   5.0 02:A3A           3.84     .016 1982.0825_12:45  151.73  n/a     .000
03525>                       +   5.0 02:A3C-R         1.21     .003 1982.0825_18:00  237.17  n/a     .000
03526>                     SUM=  5.0 01:J2           68.26     .163 1982.0825_12:45  152.98  n/a     .000
03527> R1982:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03528>     ROUTE CHANNEL    ->    5.0 02:J2           68.26     .163 1982.0825_12:45  152.98  n/a     .000
03529>       [RDT= 5.00] out<-     5.0 01:R2           68.26     .163 1982.0825_13:05  152.98  n/a     .000
03530>         [L/S/n=  359./ .560/.035]
03531>         {Vmax=  .423:Dmax=  .124}
03532> R1982:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03533>     CONTINUOUS NASHYD     5.0 01:A1A           21.43     .039 1982.0825_13:20  151.17 .328     .000
03534>       [CN= 36.1: N= 3.00: Tp= 1.68]
03535>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
03536>       [InterEventTime=  12.00]
03537> R1982:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03538>     CONTINUOUS STANDHYD    5.0 01:Pond1-In     10.00     .222 1982.0801_19:00  153.01 .332     .000
03539>       [XIMP=.38:TIMP=.74]
03540>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  Fe=***]
03541>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP= 500.:MNP=.250:SCP=   .0]
03542>       [Impervious   area: IAimp= 1.57:SLPI=1.50:LGI= 250.:MNI=.013:SCI=   .0]
03543>       [IaRECimp=  12.00: IaRECper=  12.00]
03544> R1982:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03545>     ROUTE RESERVOIR ->    5.0 02:Pond1-In     10.00     .222 1982.0801_19:00  153.01  n/a     .000
03546>                     out <=  5.0 01:Pond1-Out   10.00     .026 1982.0825_14:00  153.01  n/a     .000
03547>           overflow <=     5.0 03:Pond1-Over     .00     .000 1982.0401_ 0:00    .00  n/a     .000
03548>       {MxStoUsed=.1255E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
03549> R1982:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03550>     CONTINUOUS NASHYD     5.0 01:A2            9.14     .057 1982.0825_12:15  152.16 .330     .000
03551>       [CN= 68.4: N= 3.00: Tp= 1.12]
03552>       [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
03553>       [InterEventTime=  12.00]
03554> R1982:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03555>     ADD HYD               5.0 02:R2           68.26     .163 1982.0825_13:05  152.98  n/a     .000
03556>                       +   5.0 02:A1A          21.43     .039 1982.0825_13:20  151.17  n/a     .000
03557>                       +   5.0 02:A2            9.14     .057 1982.0825_12:15  152.16  n/a     .000
03558>                       +   5.0 02:Pond1-Over     .00     .000 1982.0401_ 0:00    .00  n/a     .000
03559>                       +   5.0 02:Pond1-Out      10.00     .026 1982.0825_14:00  153.01  n/a     .000
03560>                     SUM=  5.0 01:J3           108.84     .280 1982.0825_12:50  152.55  n/a     .000
03561> R1982:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03562>     ROUTE CHANNEL    ->    5.0 02:J3           108.84     .280 1982.0825_12:50  152.55  n/a     .000
03563>       [RDT= 5.00] out<-     5.0 01:R3           108.84     .278 1982.0825_13:10  152.55  n/a     .000
03564>         [L/S/n=  396./ .305/.035]
03565>         {Vmax=  .392:Dmax=  .265}
03566> R1982:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03567>     CONTINUOUS NASHYD     5.0 01:SOUTH-1      20.21     .037 1982.0825_12:45  151.15 .328     .000
03568>       [CN= 35.5: N= 3.00: Tp= 1.40]
03569>       [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
03570>       [InterEventTime=  12.00]
03571> R1982:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03572>     ADD HYD               5.0 02:R3           108.84     .278 1982.0825_13:10  152.55  n/a     .000
03573>                       +   5.0 02:SOUTH-1      20.21     .037 1982.0825_12:45  151.15  n/a     .000
03574>                     SUM=  5.0 01:J4           129.05     .314 1982.0825_13:10  152.33  n/a     .000
03575> R1982:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03576>     ROUTE CHANNEL    ->    5.0 02:J4           129.05     .314 1982.0825_13:10  152.33  n/a     .000
03577>       [RDT= 5.00] out<-     5.0 01:R4           129.05     .313 1982.0825_13:25  152.33  n/a     .000
03578>         [L/S/n=  482./ .410/.035]
03579>         {Vmax=  .512:Dmax=  .258}
03580> R1982:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03581>     CONTINUOUS NASHYD     5.0 01:SOUTH-2      11.61     .025 1982.0825_12:15  151.17 .328     .000
03582>       [CN= 36.7: N= 3.00: Tp=  .96]
03583>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
03584>       [InterEventTime=  12.00]
03585> R1982:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03586>     ADD HYD               5.0 02:R4           129.05     .313 1982.0825_13:25  152.33  n/a     .000
03587>                       +   5.0 02:SOUTH-2      11.61     .025 1982.0825_12:15  151.17  n/a     .000
03588>                     SUM=  5.0 01:J5           140.66     .335 1982.0825_13:20  152.23  n/a     .000
03589> R1982:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03590>     ROUTE CHANNEL    ->    5.0 02:J5           140.66     .335 1982.0825_13:20  152.23  n/a     .000
03591>       [RDT= 5.00] out<-     5.0 01:R5           140.66     .334 1982.0825_13:25  152.23  n/a     .000
03592>         [L/S/n=  181./ .500/.035]
03593>         {Vmax=  .490:Dmax=  .244}
03594> R1982:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03595>     CONTINUOUS NASHYD     5.0 01:SOUTH-3       7.98     .023 1982.0825_11:45  151.30 .328     .000
03596>       [CN= 42.6: N= 3.00: Tp=  .89]
03597>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
03598>       [InterEventTime=  12.00]
03599> R1982:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03600>     ADD HYD               5.0 02:R5           140.66     .334 1982.0825_13:25  152.23  n/a     .000
```

```
03601>                    +     5.0 02:SOUTH-3        7.98      .023 1982.0825_11:45  151.30  n/a     .000
03602>                SUM=      5.0 01:J6           148.64      .353 1982.0825_13:20  152.18  n/a     .000
03603> R1982:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03604>     SAVE HYD            5.0 01:J6           148.64      .353 1982.0825_13:20  152.18  n/a     .000
03605>       fname :J6.1982
03606>       remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
03607> R1982:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03608>     ROUTE CHANNEL   ->    5.0 02:J6           148.64      .353 1982.0825_13:20  152.18  n/a     .000
03609>      [RDT= 5.00] out<-    5.0 01:R6           148.64      .352 1982.0825_13:30  152.18  n/a     .000
03610>       [L/S/n=  323./ .440/.035]
03611>       {Vmax=  .536:Dmax=  .265}
03612> R1982:C00035------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03613>     CONTINUOUS NASHYD     5.0 01:SOUTH-4       14.99      .034 1982.0825_12:30  151.22 .328     .000
03614>       [CN= 39.5: N= 3.00: Tp= 1.23]
03615>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
03616>       [InterEventTime=  12.00]
03617> R1982:C00036------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03618>     ADD HYD             5.0 02:R6           148.64      .352 1982.0825_13:30  152.18  n/a     .000
03619>                   +     5.0 02:SOUTH-4       14.99      .034 1982.0825_12:30  151.22  n/a     .000
03620>                SUM=     5.0 01:Total        163.63      .383 1982.0825_13:25  152.10  n/a     .000
03621> #================================================================
03622> #================================================================
03623> ################################################################
03624> # CONTINUOUS RAINFALL DATA
03625> ################################################################
03626> #*****************************************************************
03627> # STORMS
03628> #*****************************************************************
03629>  ** END OF RUN : 1982
03630>
03631> ***************************************************************************************************
03632>
03633>
03634>
03635>
03636>
03637>  RUN#:COMMAND#
03638> R1983:C00001------------------------------------------------------------------------------------------
03639>      START
03640>       [TZERO =    .00 hrs on 19830401]
03641>       [METOUT=   2   (1=imperial, 2=metric output)]
03642>       [NSTORM=   0 ]
03643>       [NRUN  = 1983 ]
03644> #*****************************************************************
03645> #  SWMHYMO  / INPUT DATA FILE
03646> #*****************************************************************
03647> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
03648> #  Date        : 04-28-2021
03649> #  Modeller    : [J.B]
03650> #  Company     : JFSAinc.
03651> #  License #   : 2549237
03652> #*****************************************************************
03653> #*****************************************************************
03654> #*****************************************************************
03655> # Ottawa International Airport - April 1st to October 31st
03656> R1983:C00002------------------------------------------------------------------------------------------
03657>  *  READ AES DATA
03658>       [Filename  = YOW_1967_2007.123                                    ]
03659>       [Start_date= 1983.0401: End_date= 1983.1031]
03660>       {DT= 60.min: Length= 5136.hrs: WetHrs=  374: DryHrs= 4762: PTOT= 501.50}
03661>       Maximum average rainfall intensities over
03662>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
03663>        10.40     9.70     7.53     5.43     3.18     2.36     1.68     1.32      .92    mm/hr
03664>        10.40    19.40    22.60    32.60    38.20    50.70    60.40    63.20    66.00    mm
03665>       19831004 19830921 19830921 19831005 19831005 19831005 19831005 19831005 19831006 19831008  date
03666>       Number of rainfall events per following interevent time
03667>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
03668>          120       97       86       71       58       45       40       36       26
03669>       Number of events with at least the following durations
03670>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
03671>          119        3       70       45        0        0        0        0        0
03672> R1983:C00003------------------------------------------------------------------------------------------
03673>      COMPUTE API
03674>       [APIini= 50.00: APIkdt= .9000: APIkdt= .9956]
03675>       {APImax= 79.86: APIavg= 23.50: APImin=  5.28}
03676> R1983:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03677>     CONTINUOUS NASHYD     5.0 01:NORTH-1       34.70      .080 1983.1005_21:40  148.51 .296     .000
03678>       [CN= 38.1: N= 3.00: Tp= 4.12]
03679>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
03680>       [InterEventTime=  12.00]
03681> R1983:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03682>     CONTINUOUS NASHYD     5.0 01:NORTH-2       12.44      .063 1983.1005_16:45  150.53 .300     .000
03683>       [CN= 53.0: N= 3.00: Tp= 1.29]
03684>       [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
03685>       [InterEventTime=  12.00]
03686> R1983:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03687>     CONTINUOUS NASHYD     5.0 01:HWY-1          2.36      .028 1983.1005_16:30  157.82 .315     .000
03688>       [CN= 81.7: N= 3.00: Tp= 1.21]
03689>       [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
03690>       [InterEventTime=  12.00]
03691> R1983:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03692>     ADD HYD             5.0 02:NORTH-1       34.70      .080 1983.1005_21:40  148.51  n/a     .000
03693>                   +     5.0 02:NORTH-2       12.44      .063 1983.1005_16:45  150.53  n/a     .000
03694>                   +     5.0 02:HWY-1          2.36      .028 1983.1005_16:30  157.82  n/a     .000
03695>                SUM=     5.0 01:J1            49.51      .151 1983.1005_20:15  149.46  n/a     .000
03696> R1983:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03697>     ROUTE CHANNEL   ->    5.0 02:J1            49.51      .151 1983.1005_20:15  149.46  n/a     .000
03698>  *   [RDT= 5.00] out<-    5.0 01:R1            49.51      .150 1983.1005_20:30  149.46  n/a     .000
03699>       [L/S/n=  478./ .440/.035]
03700>       {Vmax=  .441:Dmax=  .197}
03701> R1983:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03702>     CONTINUOUS NASHYD     5.0 01:INT-1          4.39      .025 1983.1005_17:30  151.87 .303     .000
03703>       [CN= 60.4: N= 3.00: Tp= 1.66]
03704>       [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
03705>       [InterEventTime=  12.00]
03706> R1983:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03707>     CONTINUOUS NASHYD     5.0 01:INT-2          3.61      .017 1983.1005_16:25  149.65 .298     .000
03708>       [CN= 47.4: N= 3.00: Tp= .95]
03709>       [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
03710>       [InterEventTime=  12.00]
03711> R1983:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03712>     CONTINUOUS NASHYD     5.0 01:A3A            3.84      .022 1983.1005_17:15  151.47 .302     .000
03713>       [CN= 58.4: N= 3.00: Tp= 1.46]
03714>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
03715>       [InterEventTime=  12.00]
03716> R1983:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03717>  *  CONTINUOUS STANDHYD    5.0 01:Pond3-In       1.21      .022 1983.1004_20:30  255.40 .509     .000
03718>       [XIMP=.04:TIMP=.75]
03719>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F=****]
03720>       [Pervious     area: IAper= 4.67:SLPP=2.50:LGP= 100.:MNP=.250:SCP=   .0]
03721>       [Impervious   area: IAimp= 1.57:SLPI=2.50:LGI=  50.:MNI=.013:SCI=   .0]
03722>       [IaRECimp=  12.00: IaRECper=  12.00]
03723> R1983:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03724>     ROUTE RESERVOIR ->    5.0 02:Pond3-In       1.21      .022 1983.1004_20:30  255.40  n/a     .000
03725>                 out <=    5.0 01:Pond3-Out      1.21      .003 1983.1005_20:05  255.38  n/a     .000
03726>             overflow <=   5.0 03:Pond3-Over      .00      .000 1983.0401_ 0:00    .00  n/a     .000
03727>       {MxStoUsed=.3179E-01  m3, TotOvfVol=.0000E+00  m3, V-Ovf=    0, TotDurOvf=   0.hrs}
03728> R1983:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03729>     ADD HYD             5.0 02:Pond3-Over      .00      .000 1983.0401_ 0:00    .00  n/a     .000
03730>                   +     5.0 02:Pond3-Out      1.21      .003 1983.1005_20:05  255.38  n/a     .000
03731>                SUM=     5.0 01:Pond3-Ditc     1.21      .003 1983.1005_20:05  255.38  n/a     .000
03732> R1983:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03733>     ROUTE CHANNEL   ->    5.0 02:Pond3-Out      1.21      .003 1983.1005_20:05  255.38  n/a     .000
03734>      [RDT= 5.00] out<-    5.0 01:A3C-R          1.21      .003 1983.1005_22:15  255.38  n/a     .000
03735>       [L/S/n=  500./ .140/.035]
03736>       {Vmax=  .075:Dmax=  .039}
03737> R1983:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03738>     CONTINUOUS NASHYD     5.0 01:INT-3          5.71      .038 1983.1005_16:20  151.48 .302     .000
03739>       [CN= 58.5: N= 3.00: Tp=  .89]
03740>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
03741>       [InterEventTime=  12.00]
03742> R1983:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03743>     ADD HYD             5.0 02:R1            49.51      .150 1983.1005_20:30  149.46  n/a     .000
03744>                   +     5.0 02:INT-1          4.39      .025 1983.1005_17:30  151.87  n/a     .000
03745>                   +     5.0 02:INT-2          3.61      .017 1983.1005_16:25  149.65  n/a     .000
03746>                   +     5.0 02:INT-3          5.71      .038 1983.1005_16:20  151.48  n/a     .000
03747>                   +     5.0 02:A3A            3.84      .022 1983.1005_17:15  151.48  n/a     .000
03748>                   +     5.0 02:A3C-R          1.21      .003 1983.1005_22:15  255.38  n/a     .000
03749>                SUM=     5.0 01:J2            68.26      .241 1983.1005_20:10  151.77  n/a     .000
03750> R1983:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03751>     ROUTE CHANNEL   ->    5.0 02:J2            68.26      .241 1983.1005_20:10  151.77  n/a     .000
03752>      [RDT= 5.00] out<-    5.0 01:R2            68.26      .240 1983.1005_20:15  151.77  n/a     .000
03753>       [L/S/n=  359./ .560/.035]
03754>       {Vmax=  .492:Dmax=  .151}
03755> R1983:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03756>     CONTINUOUS NASHYD     5.0 01:A1A           21.43      .059 1983.1005_20:15  148.20 .296     .000
03757>       [CN= 36.1: N= 3.00: Tp= 1.68]
03758>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
03759>       [InterEventTime=  12.00]
03760> R1983:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03761>     CONTINUOUS STANDHYD    5.0 01:Pond1-In      10.00      .112 1983.1005_15:00  156.86 .313     .000
03762>       [XIMP=.38:TIMP=.74]
03763>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F=****]
03764>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP= 500.:MNP=.250:SCP=   .0]
03765>       [Impervious   area: IAimp= 1.57:SLPI=1.50:LGI= 250.:MNI=.013:SCI=   .0]
03766>       [IaRECimp=  12.00: IaRECper=  12.00]
03767> R1983:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03768>     ROUTE RESERVOIR ->    5.0 02:Pond1-In      10.00      .112 1983.1005_15:00  156.86  n/a     .000
03769>                 out <=    5.0 01:Pond1-Out     10.00      .025 1983.1005_20:05  156.86  n/a     .000
03770>             overflow <=   5.0 03:Pond1-Over      .00      .000 1983.0401_ 0:00    .00  n/a     .000
03771>       {MxStoUsed=.1040E+00  m3, TotOvfVol=.0000E+00  m3, V-Ovf=    0, TotDurOvf=   0.hrs}
03772> R1983:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03773>     CONTINUOUS NASHYD     5.0 01:A2            9.14      .076 1983.1005_16:30  153.58 .306     .000
03774>       [CN= 68.4: N= 3.00: Tp= 1.12]
03775>       [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
03776>       [InterEventTime=  12.00]
03777> R1983:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03778>     ADD HYD             5.0 02:R2            68.26      .240 1983.1005_20:15  151.77  n/a     .000
03779>                   +     5.0 02:A1A           21.43      .059 1983.1005_20:15  148.20  n/a     .000
03780>                   +     5.0 02:A2             9.14      .076 1983.1005_16:30  153.58  n/a     .000
03781>                   +     5.0 02:Pond1-Over      .00      .000 1983.0401_ 0:00    .00  n/a     .000
03782>                   +     5.0 02:Pond1-Out     10.00      .025 1983.1005_20:05  156.86  n/a     .000
03783>                SUM=     5.0 01:J3           108.84      .383 1983.1005_20:10  151.68  n/a     .000
03784> R1983:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03785>     ROUTE CHANNEL   ->    5.0 02:J3           108.84      .383 1983.1005_20:10  151.68  n/a     .000
03786>      [RDT= 5.00] out<-    5.0 01:R3           108.84      .382 1983.1005_20:20  151.68  n/a     .000
03787>       [L/S/n=  396./ .305/.035]
03788>       {Vmax=  .407:Dmax=  .300}
03789> R1983:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03790>     CONTINUOUS NASHYD     5.0 01:SOUTH-1       20.21      .053 1983.1005_17:20  148.05 .295     .000
03791>       [CN= 35.5: N= 3.00: Tp= 1.40]
03792>       [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
03793>       [InterEventTime=  12.00]
03794> R1983:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03795>     ADD HYD             5.0 02:R3           108.84      .382 1983.1005_20:20  151.68  n/a     .000
03796>                   +     5.0 02:SOUTH-1       20.21      .053 1983.1005_17:20  148.05  n/a     .000
03797>                SUM=     5.0 01:J4           129.05      .435 1983.1005_20:15  151.11  n/a     .000
03798> R1983:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03799>     ROUTE CHANNEL   ->    5.0 02:J4           129.05      .435 1983.1005_20:15  151.11  n/a     .000
03800>      [RDT= 5.00] out<-    5.0 01:R4           129.05      .433 1983.1005_20:25  151.11  n/a     .000
03801>       [L/S/n=  482./ .410/.035]
03802>       {Vmax=  .540:Dmax=  .292}
03803> R1983:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03804>     CONTINUOUS NASHYD     5.0 01:SOUTH-2       11.61      .036 1983.1005_16:25  148.20 .296     .000
03805>       [CN= 36.7: N= 3.00: Tp=  .96]
03806>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
03807>       [InterEventTime=  12.00]
03808> R1983:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03809>     ADD HYD             5.0 02:R4           129.05      .433 1983.1005_20:25  151.11  n/a     .000
03810>                   +     5.0 02:SOUTH-2       11.61      .036 1983.1005_16:25  148.20  n/a     .000
03811>                SUM=     5.0 01:J5           140.66      .465 1983.1005_20:20  150.87  n/a     .000
03812> R1983:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03813>     ROUTE CHANNEL   ->    5.0 02:J5           140.66      .465 1983.1005_20:20  150.87  n/a     .000
03814>      [RDT= 5.00] out<-    5.0 01:R5           140.66      .465 1983.1005_20:25  150.87  n/a     .000
03815>       [L/S/n=  181./ .500/.035]
03816>       {Vmax=  .515:Dmax=  .267}
03817> R1983:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03818>     CONTINUOUS NASHYD     5.0 01:SOUTH-3        7.98      .032 1983.1005_16:20  148.99 .297     .000
03819>       [CN= 42.6: N= 3.00: Tp=  .89]
03820>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
03821>       [InterEventTime=  12.00]
03822> R1983:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03823>     ADD HYD             5.0 02:R5           140.66      .465 1983.1005_20:25  150.87  n/a     .000
03824>                   +     5.0 02:SOUTH-3        7.98      .032 1983.1005_16:20  148.99  n/a     .000
03825>                SUM=     5.0 01:J6           148.64      .491 1983.1005_20:20  150.77  n/a     .000
03826> R1983:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03827>     SAVE HYD            5.0 01:J6           148.64      .491 1983.1005_20:20  150.77  n/a     .000
03828>       fname :J6.1983
03829>       remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
03830> R1983:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03831>     ROUTE CHANNEL   ->    5.0 02:J6           148.64      .491 1983.1005_20:20  150.77  n/a     .000
03832>      [RDT= 5.00] out<-    5.0 01:R6           148.64      .490 1983.1005_20:30  150.77  n/a     .000
03833>       [L/S/n=  323./ .440/.035]
03834>       {Vmax=  .570:Dmax=  .303}
03835> R1983:C00035------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03836>     CONTINUOUS NASHYD     5.0 01:SOUTH-4       14.99      .048 1983.1005_16:45  148.51 .296     .000
03837>       [CN= 39.5: N= 3.00: Tp= 1.23]
03838>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
03839>       [InterEventTime=  12.00]
03840> R1983:C00036------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03841>     ADD HYD             5.0 02:R6           148.64      .490 1983.1005_20:30  150.77  n/a     .000
03842>                   +     5.0 02:SOUTH-4       14.99      .048 1983.1005_16:45  148.51  n/a     .000
03843>                SUM=     5.0 01:Total        163.63      .535 1983.1005_20:25  150.56  n/a     .000
03844> #================================================================
03845> #================================================================
03846> ################################################################
03847> # CONTINUOUS RAINFALL DATA
03848> ################################################################
03849> #*****************************************************************
03850> # STORMS
03851> #*****************************************************************
03852>  ** END OF RUN : 1983
03853>
03854> ***************************************************************************************************
03855>
03856>
03857>
03858>
03859>
03860>  RUN#:COMMAND#
03861> R1984:C00001------------------------------------------------------------------------------------------
03862>      START
03863>       [TZERO =    .00 hrs on 19840401]
03864>       [METOUT=   2   (1=imperial, 2=metric output)]
03865>       [NSTORM=   0 ]
03866>       [NRUN  = 1984 ]
03867> #*****************************************************************
03868> #  SWMHYMO  / INPUT DATA FILE
03869> #*****************************************************************
03870> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
03871> #  Date        : 04-28-2021
03872> #  Modeller    : [J.B]
03873> #  Company     : JFSAinc.
03874> #  License #   : 2549237
03875> #*****************************************************************
03876> #*****************************************************************
03877> #*****************************************************************
03878> # Ottawa International Airport - April 1st to October 31st
03879> R1984:C00002------------------------------------------------------------------------------------------
03880>  *  READ AES DATA
03881>       [Filename  = YOW_1967_2007.123                                    ]
03882>       [Start_date= 1984.0401: End_date= 1984.1031]
03883>       {DT= 60.min: Length= 3672.hrs: WetHrs=  192: DryHrs= 3480: PTOT= 349.30}
03884>       Maximum average rainfall intensities over
03885>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
03886>        17.80    9.70     7.57     4.33     3.01     1.85     1.58     1.19     1.00    mm/hr
03887>        17.80   19.40    22.70    26.00    36.10    44.30    57.00    57.00    72.20    mm
03888>       19840812 19840812 19840812 19840806 19840812 19840813 19840813 19840814 19840813  date
03889>       Number of rainfall events per following interevent time
03890>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
03891>           71       57       55       50       44       38       32       26       19
03892>       Number of events with at least the following durations
03893>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
03894>           70       42       26        7        1        0        0        0        0
03895> R1984:C00003------------------------------------------------------------------------------------------
03896>      COMPUTE API
03897>       [APIini= 50.00: APIkdt= .9000: APIkdt= .9956]
03898>       {APImax= 86.86: APIavg= 24.24: APImin=  4.38}
03899> R1984:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03900>     CONTINUOUS NASHYD     5.0 01:NORTH-1       34.70      .058 1984.0813_11:10  147.35 .422     .000
03901>       [CN= 38.1: N= 3.00: Tp= 4.12]
03902>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
03903>       [InterEventTime=  12.00]
03904> R1984:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03905>     CONTINUOUS NASHYD     5.0 01:NORTH-2       12.44      .058 1984.0813_ 7:25  147.61 .423     .000
03906>       [CN= 53.0: N= 3.00: Tp= 1.29]
03907>       [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
03908>       [InterEventTime=  12.00]
03909> R1984:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03910>     CONTINUOUS NASHYD     5.0 01:HWY-1          2.36      .022 1984.0813_ 7:10  150.42 .431     .000
03911>       [CN= 81.7: N= 3.00: Tp= 1.21]
03912>       [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
03913>       [InterEventTime=  12.00]
03914> R1984:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03915>     ADD HYD             5.0 02:NORTH-1       34.70      .058 1984.0813_11:10  147.35  n/a     .000
03916>                   +     5.0 02:NORTH-2       12.44      .058 1984.0813_ 7:25  147.61  n/a     .000
03917>                   +     5.0 02:HWY-1          2.36      .022 1984.0813_ 7:10  150.42  n/a     .000
03918>                SUM=     5.0 01:J1            49.51      .111 1984.0813_ 7:45  147.56  n/a     .000
03919> R1984:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03920>     ROUTE CHANNEL   ->    5.0 02:J1            49.51      .111 1984.0813_ 7:45  147.56  n/a     .000
03921>      [RDT= 5.00] out<-    5.0 01:R1            49.51      .110 1984.0813_ 8:05  147.56  n/a     .000
03922>       [L/S/n=  478./ .440/.035]
03923>       {Vmax=  .404:Dmax=  .173}
03924> R1984:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03925>     CONTINUOUS NASHYD     5.0 01:INT-1          4.39      .021 1984.0813_ 7:55  147.95 .424     .000
03926>       [CN= 60.4: N= 3.00: Tp= 1.66]
03927>       [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
03928>       [InterEventTime=  12.00]
03929> R1984:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03930>     CONTINUOUS NASHYD     5.0 01:INT-2          3.61      .018 1984.0813_ 6:50  147.49 .422     .000
03931>       [CN= 47.4: N= 3.00: Tp=  .95]
03932>       [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
03933>       [InterEventTime=  12.00]
03934> R1984:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03935>     CONTINUOUS NASHYD     5.0 01:A3A            3.84      .019 1984.0813_ 7:35  147.81 .423     .000
03936>       [CN= 58.4: N= 3.00: Tp= 1.46]
03937>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
03938>       [InterEventTime=  12.00]
03939> R1984:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03940>  *  CONTINUOUS STANDHYD    5.0 01:Pond3-In       1.21      .039 1984.0812_ 7:00  185.27 .530     .000
03941>       [XIMP=.64:TIMP=.75]
03942>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F=****]
03943>       [Pervious     area: IAper= 4.67:SLPP=2.50:LGP= 100.:MNP=.250:SCP=   .0]
03944>       [Impervious   area: IAimp= 1.57:SLPI=2.50:LGI=  50.:MNI=.013:SCI=   .0]
03945>       [IaRECimp=  12.00: IaRECper=  12.00]
03946> R1984:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03947>     ROUTE RESERVOIR ->    5.0 02:Pond3-In       1.21      .039 1984.0812_ 7:00  185.27  n/a     .000
03948>                 out <=    5.0 01:Pond3-Out      1.21      .003 1984.0812_16:05  185.25  n/a     .000
03949>             overflow <=   5.0 03:Pond3-Over      .00      .000 1984.0601_ 0:00    .00  n/a     .000
03950>       {MxStoUsed=.2514E-01  m3, TotOvfVol=.0000E+00  m3, V-Ovf=    0, TotDurOvf=   0.hrs}
03951> R1984:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03952>     ADD HYD             5.0 02:Pond3-Over      .00      .000 1984.0601_ 0:00    .00  n/a     .000
03953>                   +     5.0 02:Pond3-Out      1.21      .003 1984.0812_16:05  185.25  n/a     .000
03954>                SUM=     5.0 01:Pond3-Ditc     1.21      .003 1984.0812_16:05  185.25  n/a     .000
03955> R1984:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03956>     ROUTE CHANNEL   ->    5.0 02:Pond3-Out      1.21      .003 1984.0812_16:05  185.25  n/a     .000
03957>      [RDT= 5.00] out<-    5.0 01:A3C-R          1.21      .003 1984.0812_18:50  185.25  n/a     .000
03958>       [L/S/n=  500./ .140/.035]
03959>       {Vmax=  .075:Dmax=  .038}
03960> R1984:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
```

```
03961>     CONTINUOUS NASHYD     5.0 01:INT-3          5.71     .039 1984.0813_ 6:45  147.81 .423     .000
03962>       [CN= 58.5: N= 3.00: Tp=  .89]
03963>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
03964>       [InterEventTime=  12.00]
03965> R1984:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03966>     ADD HYD                5.0 02:R1            49.51     .110 1984.0813_ 8:05  147.56  n/a     .000
03967>                  +         5.0 02:INT-1          4.39     .021 1984.0813_ 7:55  147.95  n/a     .000
03968>                  +         5.0 02:INT-2          3.61     .018 1984.0813_ 6:50  147.49  n/a     .000
03969>                  +         5.0 02:INT-3          5.71     .039 1984.0813_ 6:45  147.81  n/a     .000
03970>                  +         5.0 02:A3A            3.84     .019 1984.0813_ 7:35  147.81  n/a     .000
03971>                  +         5.0 02:A3C-R          1.21     .003 1984.0812_18:50  185.25  n/a     .000
03972>                SUM=        5.0 01:J2            68.26     .196 1984.0813_ 7:35  148.27  n/a     .000
03973> R1984:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03974>     ROUTE CHANNEL    ->     5.0 02:J2            68.26     .196 1984.0813_ 7:35  148.27  n/a     .000
03975>       [RDT= 5.00] out<-     5.0 01:R2            68.26     .195 1984.0813_ 7:45  148.27  n/a     .000
03976>       [L/S/n=  359./ .560/.035]
03977>       [Vmax=  .449:Dmax=  .135]
03978> R1984:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03979>     CONTINUOUS NASHYD     5.0 01:A1A           21.43     .052 1984.0813_ 8:05  147.31 .422     .000
03980>       [CN= 36.1: N= 3.00: Tp= 1.68]
03981>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
03982>       [InterEventTime=  12.00]
03983> R1984:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03984>     CONTINUOUS STANDHYD   5.0 01:Pond1-In      10.00     .220 1984.0812_ 7:00  119.88 .343     .000
03985>       [XIMP=.38:TIMP=.74]
03986>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  Fs=****]
03987>       [Pervious    area: IAper= 4.67:SLPP=2.00:LGP= 500.:MNP=.250:SCP=   .0]
03988>       [Impervious  area: IAimp= 1.57:SLPI=1.50:LGI= 250.:MNI=.013:SCI=   .0]
03989>       [IaRECimp=  12.00: IaRECper=  12.00]
03990> R1984:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03991>     ROUTE RESERVOIR  ->     5.0 02:Pond1-In      10.00     .220 1984.0812_ 7:00  119.88  n/a     .000
03992>                        out <=     5.0 01:Pond1-Out     10.00     .024 1984.0812_ 9:15  119.88  n/a     .000
03993>                overflow <=     5.0 03:Pond1-Over      .00     .000 1984.0101_ 0:00    .00  n/a     .000
03994>       {MxStoUsed=.9546E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
03995> R1984:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03996>     CONTINUOUS NASHYD     5.0 01:A2            9.14     .068 1984.0813_ 7:05  148.60 .425     .000
03997>       [CN= 68.4: N= 3.00: Tp= 1.12]
03998>       [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
03999>       [InterEventTime=  12.00]
04000> R1984:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04001>     ADD HYD                5.0 02:R2            68.26     .195 1984.0813_ 7:45  148.27  n/a     .000
04002>                  +         5.0 02:A1A           21.43     .052 1984.0813_ 8:05  147.31  n/a     .000
04003>                  +         5.0 02:A2             9.14     .068 1984.0813_ 7:05  148.60  n/a     .000
04004>                  +         5.0 02:Pond1-Over      .00     .000 1984.0601_ 0:00    .00  n/a     .000
04005>                  +         5.0 02:Pond1-Out     10.00     .024 1984.0812_ 9:15  119.88  n/a     .000
04006>                SUM=        5.0 01:J3           108.84     .330 1984.0813_ 7:35  145.50  n/a     .000
04007> R1984:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04008>     ROUTE CHANNEL    ->     5.0 02:J3           108.84     .330 1984.0813_ 7:35  145.50  n/a     .000
04009>       [RDT= 5.00] out<-     5.0 01:R3           108.84     .325 1984.0813_ 7:55  145.50  n/a     .000
04010>       [L/S/n=  396./ .305/.035]
04011>       [Vmax=  .398:Dmax=  .286]
04012> R1984:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04013>     CONTINUOUS NASHYD     5.0 01:SOUTH-1       20.21     .052 1984.0813_ 7:35  147.30 .422     .000
04014>       [CN= 35.5: N= 3.00: Tp= 1.40]
04015>       [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
04016>       [InterEventTime=  12.00]
04017> R1984:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04018>     ADD HYD                5.0 02:R3           108.84     .325 1984.0813_ 7:55  145.50  n/a     .000
04019>                  +         5.0 02:SOUTH-1       20.21     .052 1984.0813_ 7:35  147.30  n/a     .000
04020>                SUM=        5.0 01:J4           129.05     .375 1984.0813_ 7:50  145.78  n/a     .000
04021> R1984:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04022>     ROUTE CHANNEL    ->     5.0 02:J4           129.05     .375 1984.0813_ 7:50  145.78  n/a     .000
04023>       [RDT= 5.00] out<-     5.0 01:R4           129.05     .372 1984.0813_ 8:10  145.78  n/a     .000
04024>       [L/S/n=  482./ .410/.035]
04025>       [Vmax=  .526:Dmax=  .275]
04026> R1984:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04027>     CONTINUOUS NASHYD     5.0 01:SOUTH-2       11.61     .039 1984.0813_ 6:50  147.31 .422     .000
04028>       [CN= 36.7: N= 3.00: Tp=  .96]
04029>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
04030>       [InterEventTime=  12.00]
04031> R1984:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04032>     ADD HYD                5.0 02:R4           129.05     .372 1984.0813_ 8:10  145.78  n/a     .000
04033>                  +         5.0 02:SOUTH-2       11.61     .039 1984.0813_ 6:50  147.31  n/a     .000
04034>                SUM=        5.0 01:J5           140.66     .400 1984.0813_ 8:05  145.91  n/a     .000
04035> R1984:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04036>     ROUTE CHANNEL    ->     5.0 02:J5           140.66     .400 1984.0813_ 8:05  145.91  n/a     .000
04037>       [RDT= 5.00] out<-     5.0 01:R5           140.66     .400 1984.0813_ 8:10  145.90  n/a     .000
04038>       [L/S/n=  181./ .500/.035]
04039>       [Vmax=  .502:Dmax=  .256]
04040> R1984:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04041>     CONTINUOUS NASHYD     5.0 01:SOUTH-3        7.98     .035 1984.0813_ 6:45  147.41 .422     .000
04042>       [CN= 42.6: N= 3.00: Tp=  .89]
04043>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
04044>       [InterEventTime=  12.00]
04045> R1984:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04046>     ADD HYD                5.0 02:R5           140.66     .400 1984.0813_ 8:10  145.90  n/a     .000
04047>                  +         5.0 02:SOUTH-3        7.98     .035 1984.0813_ 6:45  147.41  n/a     .000
04048>                SUM=        5.0 01:J6           148.64     .423 1984.0813_ 8:05  145.99  n/a     .000
04049> R1984:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04050>     SAVE HYD               5.0 01:J6           148.64     .423 1984.0813_ 8:05  145.99  n/a     .000
04051>       fname :J6.1984
04052>       remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
04053> R1984:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04054>     ROUTE CHANNEL    ->     5.0 02:J6           148.64     .423 1984.0813_ 8:05  145.99  n/a     .000
04055>       [RDT= 5.00] out<-     5.0 01:R6           148.64     .422 1984.0813_ 8:15  145.99  n/a     .000
04056>       [L/S/n=  323./ .440/.035]
04057>       [Vmax=  .553:Dmax=  .284]
04058> R1984:C00035------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04059>     CONTINUOUS NASHYD     5.0 01:SOUTH-4       14.99     .047 1984.0813_ 7:20  147.35 .422     .000
04060>       [CN= 39.5: N= 3.00: Tp= 1.23]
04061>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
04062>       [InterEventTime=  12.00]
04063> R1984:C00036------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04064>     ADD HYD                5.0 02:R6           148.64     .422 1984.0813_ 8:15  145.99  n/a     .000
04065>                  +         5.0 02:SOUTH-4       14.99     .047 1984.0813_ 7:20  147.35  n/a     .000
04066>                SUM=        5.0 01:Total        163.63     .463 1984.0813_ 8:10  146.11  n/a     .000
04067> #=========================================================================
04068> #=========================================================================
04069> ##########################################################################
04070> # CONTINUOUS RAINFALL DATA
04071> ##########################################################################
04072> #*************************************************************************
04073> # STORMS
04074> #*************************************************************************
04075>   ** END OF RUN : 1984
04076>
04077>  ************************************************************************************************************
04078>
04079>
04080>
04081>
04082>
04083>  RUN#:COMMAND#
04084> R1985:C00001------------------------------------------------------------------------------------------------
04085>      START
04086>      [TZERO =    .00 hrs on 19850401]
04087>      [METOUT=  2   (1=imperial, 2=metric output)]
04088>      [NSTORM=   0 ]
04089>      [NRUN  = 1985 ]
04090> #*************************************************************************
04091> #  SWMHYMO  / INPUT DATA FILE
04092> #*************************************************************************
04093> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
04094> #  Date        : 04-28-2021
04095> #  Modeller    : [J.B]
04096> #  Company     : JFSAinc.
04097> #  License #   :  2549237
04098> #*************************************************************************
04099> #*************************************************************************
04100> #*************************************************************************
04101> # Ottawa International Airport - April 1st to October 31st
04102> R1985:C00002------------------------------------------------------------------------------------------------
04103>  *  READ AES DATA                                                                                          *
04104>       [filename  = YOW_1967_2007.123                                                                      ]
04105>       [Start_date= 1985.0401: End_date= 1985.1031]
04106>       [DT= 60.min: Length= 5136.hrs: WetHrs=  279: DryHrs= 4857: PTOT= 456.00]
04107>       Maximum average rainfall intensities over
04108>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
04109>        19.00    13.60    11.73     6.60     3.30     1.65     1.11      .89      .60     mm/hr
04110>        19.00    27.20    35.20    39.60    39.60    39.60    40.10    42.80    43.40     mm
04111>       19850716 19850617 19850617 19850618 19850618 19850618 19850618 19850827 19850827  date
04112>       Number of rainfall events per following interevent time
04113>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
04114>           94       79       76       66       61       50       44       38       27
04115>       Number of events with at least the following durations
04116>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
04117>           93       62       35       10        3        0        0        0        0
04118> R1985:C00003------------------------------------------------------------------------------------------------
04119>      COMPUTE API
04120>       [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
04121>       {APImax= 57.30: APIavg= 21.73: APImin=  4.86}
04122> R1985:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04123>     CONTINUOUS NASHYD     5.0 01:NORTH-1       34.70     .046 1985.0618_ 4:00  155.02 .340     .000
04124>       [CN= 38.1: N= 3.00: Tp= 4.12]
04125>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
04126>       [InterEventTime=  12.00]
04127> R1985:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04128>     CONTINUOUS NASHYD     5.0 01:NORTH-2       12.44     .054 1985.0618_ 0:45  156.12 .342     .000
04129>       [CN= 53.0: N= 3.00: Tp= 1.29]
04130>       [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
04131>       [InterEventTime=  12.00]
04132> R1985:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04133>     CONTINUOUS NASHYD     5.0 01:HWY-1          2.36     .027 1985.0618_ 0:35  161.58 .354     .000
04134>       [CN= 81.7: N= 3.00: Tp= 1.21]
04135>       [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
04136>       [InterEventTime=  12.00]
04137> R1985:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04138>     ADD HYD                5.0 02:NORTH-1       34.70     .046 1985.0618_ 4:00  155.02  n/a     .000
04139>                  +         5.0 02:NORTH-2       12.44     .054 1985.0618_ 0:45  156.12  n/a     .000
04140>                  +         5.0 02:HWY-1          2.36     .027 1985.0618_ 0:35  161.58  n/a     .000
04141>                SUM=        5.0 01:J1            49.51     .105 1985.0618_ 1:00  155.61  n/a     .000
04142> R1985:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04143>     ROUTE CHANNEL    ->     5.0 02:J1            49.51     .105 1985.0618_ 1:00  155.61  n/a     .000
04144> *   [RDT= 5.00] out<-     5.0 01:R1            49.51     .103 1985.0618_ 1:20  155.61  n/a     .000
04145>       [L/S/n=  478./ .440/.035]
04146>       {Vmax=  .397:Dmax=  .169}
04147> R1985:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04148>     CONTINUOUS NASHYD     5.0 01:INT-1          4.39     .021 1985.0618_ 1:15  156.94 .344     .000
04149>       [CN= 60.4: N= 3.00: Tp= 1.66]
04150>       [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
04151>       [InterEventTime=  12.00]
04152> R1985:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04153>     CONTINUOUS NASHYD     5.0 01:INT-2          3.61     .015 1985.0618_ 0:30  155.62 .341     .000
04154>       [CN= 47.4: N= 3.00: Tp=  .95]
04155>       [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
04156>       [InterEventTime=  12.00]
04157> R1985:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04158>     CONTINUOUS NASHYD     5.0 01:A3A            3.84     .018 1985.0618_ 1:00  156.69 .344     .000
04159>       [CN= 58.4: N= 3.00: Tp= 1.46]
04160>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
04161>       [InterEventTime=  12.00]
04162> R1985:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04163> *   CONTINUOUS STANDHYD    5.0 01:Pond3-In       1.21     .041 1985.0716_14:00  237.34 .520     .000
04164>       [XIMP=.64:TIMP=.75]
04165>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  Fs=****]
04166>       [Pervious    area: IAper= 4.67:SLPP=2.50:LGP= 100.:MNP=.250:SCP=   .0]
04167>       [Impervious  area: IAimp= 1.57:SLPI=2.50:LGI=  50.:MNI=.013:SCI=   .0]
04168>       [IaRECimp=  12.00: IaRECper=  12.00]
04169> R1985:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04170>     ROUTE RESERVOIR  ->     5.0 02:Pond3-In       1.21     .041 1985.0716_14:00  237.34  n/a     .000
04171>                        out <=     5.0 01:Pond3-Out      1.21     .003 1985.0618_ 2:00  237.32  n/a     .000
04172>                overflow <=     5.0 03:Pond3-Over      .00     .000 1985.0401_ 0:00    .00  n/a     .000
04173>       {MxStoUsed=.3156E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
04174> R1985:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04175>     ADD HYD                5.0 02:Pond3-Over      .00     .000 1985.0401_ 0:00    .00  n/a     .000
04176>                  +         5.0 02:Pond3-Out      1.21     .003 1985.0618_ 2:00  237.32  n/a     .000
04177>                SUM=        5.0 01:Pond3-Ditc     1.21     .003 1985.0618_ 2:00  237.32  n/a     .000
04178> R1985:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04179>     ROUTE CHANNEL    ->     5.0 02:Pond3-Out      1.21     .003 1985.0618_ 2:00  237.32  n/a     .000
04180>       [RDT= 5.00] out<-     5.0 01:A3C-R          1.21     .003 1985.0618_ 7:45  237.32  n/a     .000
04181>       [L/S/n=  500./ .140/.035]
04182>       {Vmax=  .075:Dmax=  .039}
04183> R1985:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04184>     CONTINUOUS NASHYD     5.0 01:INT-3          5.71     .035 1985.0618_ 0:25  156.69 .344     .000
04185>       [CN= 58.5: N= 3.00: Tp=  .89]
04186>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
04187>       [InterEventTime=  12.00]
04188> R1985:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04189>     ADD HYD                5.0 02:R1            49.51     .103 1985.0618_ 1:20  155.61  n/a     .000
04190>                  +         5.0 02:INT-1          4.39     .021 1985.0618_ 1:15  156.94  n/a     .000
04191>                  +         5.0 02:INT-2          3.61     .015 1985.0618_ 0:30  155.62  n/a     .000
04192>                  +         5.0 02:INT-3          5.71     .035 1985.0618_ 0:25  156.69  n/a     .000
04193>                  +         5.0 02:A3A            3.84     .018 1985.0618_ 1:00  156.69  n/a     .000
04194>                  +         5.0 02:A3C-R          1.21     .003 1985.0618_ 7:45  237.32  n/a     .000
04195>                SUM=        5.0 01:J2            68.26     .186 1985.0618_ 0:55  157.28  n/a     .000
04196> R1985:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04197>     ROUTE CHANNEL    ->     5.0 02:J2            68.26     .186 1985.0618_ 0:55  157.28  n/a     .000
04198>       [RDT= 5.00] out<-     5.0 01:R2            68.26     .185 1985.0618_ 1:05  157.28  n/a     .000
04199>       [L/S/n=  359./ .560/.035]
04200>       {Vmax=  .441:Dmax=  .132}
04201> R1985:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04202>     CONTINUOUS NASHYD     5.0 01:A1A           21.43     .044 1985.0618_ 1:25  154.88 .340     .000
04203>       [CN= 36.1: N= 3.00: Tp= 1.68]
04204>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
04205>       [InterEventTime=  12.00]
04206> R1985:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04207>     CONTINUOUS STANDHYD   5.0 01:Pond1-In      10.00     .218 1985.0716_14:00  157.39 .345     .000
04208>       [XIMP=.38:TIMP=.74]
04209>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  Fs=****]
04210>       [Pervious    area: IAper= 4.67:SLPP=2.00:LGP= 500.:MNP=.250:SCP=   .0]
04211>       [Impervious  area: IAimp= 1.57:SLPI=1.50:LGI= 250.:MNI=.013:SCI=   .0]
04212>       [IaRECimp=  12.00: IaRECper=  12.00]
04213> R1985:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04214>     ROUTE RESERVOIR  ->     5.0 02:Pond1-In      10.00     .218 1985.0716_14:00  157.39  n/a     .000
04215>                        out <=     5.0 01:Pond1-Out     10.00     .028 1985.0618_ 2:10  157.39  n/a     .000
04216>                overflow <=     5.0 03:Pond1-Over      .00     .000 1985.0401_ 0:00    .00  n/a     .000
04217>       {MxStoUsed=.1703E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
04218> R1985:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04219>     CONTINUOUS NASHYD     5.0 01:A2            9.14     .070 1985.0618_ 0:35  158.09 .347     .000
04220>       [CN= 68.4: N= 3.00: Tp= 1.12]
04221>       [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
04222>       [InterEventTime=  12.00]
04223> R1985:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04224>     ADD HYD                5.0 02:R2            68.26     .185 1985.0618_ 1:05  157.28  n/a     .000
04225>                  +         5.0 02:A1A           21.43     .044 1985.0618_ 1:25  154.88  n/a     .000
04226>                  +         5.0 02:A2             9.14     .070 1985.0618_ 0:35  158.09  n/a     .000
04227>                  +         5.0 02:Pond1-Over      .00     .000 1985.0401_ 0:00    .00  n/a     .000
04228>                  +         5.0 02:Pond1-Out      10.00     .028 1985.0618_ 2:10  157.39  n/a     .000
04229>                SUM=        5.0 01:J3           108.84     .320 1985.0618_ 1:00  156.80  n/a     .000
04230> R1985:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04231>     ROUTE CHANNEL    ->     5.0 02:J3           108.84     .320 1985.0618_ 1:00  156.88  n/a     .000
04232>       [RDT= 5.00] out<-     5.0 01:R3           108.84     .314 1985.0618_ 1:20  156.88  n/a     .000
04233>       [L/S/n=  396./ .305/.035]
04234>       {Vmax=  .397:Dmax=  .282}
04235> R1985:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04236>     CONTINUOUS NASHYD     5.0 01:SOUTH-1       20.21     .043 1985.0618_ 1:00  154.82 .340     .000
04237>       [CN= 35.5: N= 3.00: Tp= 1.40]
04238>       [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
04239>       [InterEventTime=  12.00]
04240> R1985:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04241>     ADD HYD                5.0 02:R3           108.84     .314 1985.0618_ 1:20  156.88  n/a     .000
04242>                  +         5.0 02:SOUTH-1       20.21     .043 1985.0618_ 0:55  154.82  n/a     .000
04243>                SUM=        5.0 01:J4           129.05     .357 1985.0618_ 1:15  156.55  n/a     .000
04244> R1985:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04245>     ROUTE CHANNEL    ->     5.0 02:J4           129.05     .357 1985.0618_ 1:15  156.55  n/a     .000
04246>       [RDT= 5.00] out<-     5.0 01:R4           129.05     .353 1985.0618_ 1:30  156.55  n/a     .000
04247>       [L/S/n=  482./ .410/.035]
04248>       {Vmax=  .521:Dmax=  .270}
04249> R1985:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04250>     CONTINUOUS NASHYD     5.0 01:SOUTH-2       11.61     .031 1985.0618_ 0:30  154.88 .340     .000
04251>       [CN= 36.7: N= 3.00: Tp=  .96]
04252>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
04253>       [InterEventTime=  12.00]
04254> R1985:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04255>     ADD HYD                5.0 02:R4           129.05     .353 1985.0618_ 1:30  156.55  n/a     .000
04256>                  +         5.0 02:SOUTH-2       11.61     .031 1985.0618_ 0:30  154.88  n/a     .000
04257>                SUM=        5.0 01:J5           140.66     .377 1985.0618_ 1:25  156.42  n/a     .000
04258> R1985:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04259>     ROUTE CHANNEL    ->     5.0 02:J5           140.66     .377 1985.0618_ 1:25  156.42  n/a     .000
04260>       [RDT= 5.00] out<-     5.0 01:R5           140.66     .377 1985.0618_ 1:30  156.42  n/a     .000
04261>       [L/S/n=  181./ .500/.035]
04262>       {Vmax=  .498:Dmax=  .251}
04263> R1985:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04264>     CONTINUOUS NASHYD     5.0 01:SOUTH-3        7.98     .029 1985.0618_ 0:25  155.26 .340     .000
04265>       [CN= 42.6: N= 3.00: Tp=  .89]
04266>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
04267>       [InterEventTime=  12.00]
04268> R1985:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04269>     ADD HYD                5.0 02:R5           140.66     .377 1985.0618_ 1:30  156.42  n/a     .000
04270>                  +         5.0 02:SOUTH-3        7.98     .029 1985.0618_ 0:25  155.26  n/a     .000
04271>                SUM=        5.0 01:J6           148.64     .397 1985.0618_ 1:30  156.35  n/a     .000
04272> R1985:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04273>     SAVE HYD               5.0 01:J6           148.64     .397 1985.0618_ 1:30  156.35  n/a     .000
04274>       fname :J6.1985
04275>       remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
04276> R1985:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04277>     ROUTE CHANNEL    ->     5.0 02:J6           148.64     .397 1985.0618_ 1:30  156.35  n/a     .000
04278>       [RDT= 5.00] out<-     5.0 01:R6           148.64     .395 1985.0618_ 1:35  156.35  n/a     .000
04279>       [L/S/n=  323./ .440/.035]
04280>       {Vmax=  .547:Dmax=  .277}
04281> R1985:C00035------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04282>     CONTINUOUS NASHYD     5.0 01:SOUTH-4       14.99     .040 1985.0618_ 0:45  155.02 .340     .000
04283>       [CN= 39.5: N= 3.00: Tp= 1.23]
04284>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
04285>       [InterEventTime=  12.00]
04286> R1985:C00036------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04287>     ADD HYD                5.0 02:R6           148.64     .395 1985.0618_ 1:35  156.35  n/a     .000
04288>                  +         5.0 02:SOUTH-4       14.99     .040 1985.0618_ 0:45  155.02  n/a     .000
04289>                SUM=        5.0 01:Total        163.63     .430 1985.0618_ 1:30  156.23  n/a     .000
04290> #=========================================================================
04291> #=========================================================================
04292> ##########################################################################
04293> # CONTINUOUS RAINFALL DATA
04294> ##########################################################################
04295> #*************************************************************************
04296> # STORMS
04297> #*************************************************************************
04298>   ** END OF RUN : 1985
04299>
04300>  ************************************************************************************************************
04301>
04302>
04303>
04304>
04305>
04306>  RUN#:COMMAND#
04307> R1986:C00001------------------------------------------------------------------------------------------------
04308>      START
04309>      [TZERO =    .00 hrs on 19860401]
04310>      [METOUT=  2   (1=imperial, 2=metric output)]
04311>      [NSTORM=   0 ]
04312>      [NRUN  = 1986 ]
04313> #*************************************************************************
04314> #  SWMHYMO  / INPUT DATA FILE
04315> #*************************************************************************
04316> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
04317> #  Date        : 04-28-2021
04318> #  Modeller    : [J.B]
04319> #  Company     : JFSAinc.
04320> #  License #   :  2549237
```

```
04321> #**************************************************************************
04322> #**************************************************************************
04323> #**************************************************************************
04324> # Ottawa International Airport - April 1st to October 31st
04325> R1986:C00002-----------------------------------------------------------------------------
04326>   *  READ AES DATA
04327>       [Filename  = YOW_1967_2007.123                                          ]
04328>       [Start_date= 1986.0401: End_date= 1986.1031]
04329>       [DT= 60.min: Length= 5136.hrs: WetHrs=  454: DryHrs= 4682: PTOT= 790.80]
04330>       Maximum average rainfall intensities over
04331>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
04332>        18.30    17.80    13.57     7.07     4.84     2.89     2.42     1.85     1.31    mm/hr
04333>        18.30    35.60    40.70    42.40    58.10    69.30    87.00    88.60    94.40    mm
04334>       19860729 19860729 19860729 19860729 19860912 19860912 19860912 19860912 19860913  date
04335>       Number of rainfall events per following interevent time
04336>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
04337>          158      129      117       91       70       52       43       38       26
04338>       Number of events with at least the following durations
04339>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
04340>          157        1       93        0       19        1        0        0        0        0
04341> R1986:C00003-----------------------------------------------------------------------------
04342>       COMPUTE API
04343>         [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
04344>         {APImax=102.42: APIavg= 36.16: APImin=  7.30}
04345> R1986:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04346>      CONTINUOUS NASHYD     5.0 01:NORTH-1       34.70     .152 1986.0912_ 8:30  367.72 .465     .000
04347>         [CN= 38.1: N= 3.00: Tp= 4.12]
04348>         [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
04349>         [InterEventTime=  12.00]
04350> R1986:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04351>      CONTINUOUS NASHYD     5.0 01:NORTH-2       12.44     .142 1986.0911_23:50  369.10 .467     .000
04352>         [CN= 53.0: N= 3.00: Tp= 1.29]
04353>         [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
04354>         [InterEventTime=  12.00]
04355> R1986:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04356>      CONTINUOUS NASHYD     5.0 01:HWY-1          2.36     .049 1986.0911_23:40  373.61 .472     .000
04357>         [CN= 81.7: N= 3.00: Tp= 1.21]
04358>         [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
04359>         [InterEventTime=  12.00]
04360> R1986:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04361>      ADD HYD              5.0 02:NORTH-1       34.70     .152 1986.0912_ 8:30  367.72  n/a     .000
04362>                     +     5.0 02:NORTH-2       12.44     .142 1986.0911_23:50  369.10  n/a     .000
04363>                     +     5.0 02:HWY-1          2.36     .049 1986.0911_23:40  373.61  n/a     .000
04364>                   SUM=    5.0 01:J1            49.51     .310 1986.0912_ 6:40  368.35  n/a     .000
04365> R1986:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04366>      ROUTE CHANNEL    ->    5.0 02:J1            49.51     .310 1986.0912_ 6:40  368.35  n/a     .000
04367>   *  [RDT= 5.00] out<-     5.0 01:R1            49.51     .307 1986.0912_ 6:55  368.34  n/a     .000
04368>         [L/S/n=  478./ .440/.035]
04369>         {Vmax=  .536:Dmax=  .268}
04370> R1986:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04371>      CONTINUOUS NASHYD     5.0 01:INT-1          4.39     .053 1986.0912_ 0:15  369.96 .468     .000
04372>         [CN= 60.4: N= 3.00: Tp= 1.66]
04373>         [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
04374>         [InterEventTime=  12.00]
04375> R1986:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04376>      CONTINUOUS NASHYD     5.0 01:INT-2          3.61     .043 1986.0912_ 6:20  368.51 .466     .000
04377>         [CN= 47.4: N= 3.00: Tp=  .95]
04378>         [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
04379>         [InterEventTime=  12.00]
04380> R1986:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04381>      CONTINUOUS NASHYD     5.0 01:A3A            3.84     .047 1986.0912_ 0:05  369.71 .468     .000
04382>         [CN= 58.4: N= 3.00: Tp= 1.46]
04383>         [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
04384>         [InterEventTime=  12.00]
04385> R1986:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04386>   *  CONTINUOUS STANDHYD    5.0 01:Pond3-In       1.21     .047 1986.0729_15:00  431.25 .545     .000
04387>         [XIMP=.64:TIMP=.75]
04388>         [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  Fe=****]
04389>         [Pervious     area: IAper= 4.67:SLPP=2.50:LGP= 100.:MNP=.250:SCP=   .0]
04390>         [Impervious   area: IAimp= 1.57:SLPI=2.50:LGI=  50.:MNI=.013:SCI=   .0]
04391>         [IaRECimp=  12.00: IaRECper=  12.00]
04392> R1986:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04393>      ROUTE RESERVOIR ->    5.0 02:Pond3-In       1.21     .047 1986.0729_15:00  431.25  n/a     .000
04394>                          out <=    5.0 01:Pond3-Out      1.21     .003 1986.0912_ 6:05  431.21  n/a     .000
04395>                overflow <=    5.0 03:Pond3-Over      .00     .000 1986.0401_ 0:00     .00  n/a     .000
04396>       {MxStoUsed=.4616E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=     0, TotDurOvf=    0.hrs}
04397> R1986:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04398>      ADD HYD              5.0 02:Pond3-Over      .00     .000 1986.0401_ 0:00     .00  n/a     .000
04399>                     +     5.0 02:Pond3-Out      1.21     .003 1986.0912_ 6:05  431.21  n/a     .000
04400>                   SUM=    5.0 01:Pond3-Ditc     1.21     .003 1986.0912_ 6:05  431.21  n/a     .000
04401> R1986:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04402>      ROUTE CHANNEL    ->    5.0 02:Pond3-Out      1.21     .003 1986.0912_ 6:05  431.21  n/a     .000
04403>        [RDT= 5.00] out<-     5.0 01:A3C-R          1.21     .003 1986.0912_ 7:25  431.21  n/a     .000
04404>         [L/S/n=  500./ .140/.035]
04405>         {Vmax=  .078:Dmax=  .040}
04406> R1986:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04407>      CONTINUOUS NASHYD     5.0 01:INT-3          5.71     .086 1986.0911_23:30  369.71 .468     .000
04408>         [CN= 58.5: N= 3.00: Tp=  .89]
04409>         [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
04410>         [InterEventTime=  12.00]
04411> R1986:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04412>      ADD HYD              5.0 02:R1            49.51     .307 1986.0912_ 6:55  368.34  n/a     .000
04413>                     +     5.0 02:INT-1          4.39     .053 1986.0912_ 0:15  369.96  n/a     .000
04414>                     +     5.0 02:INT-2          3.61     .043 1986.0912_ 6:20  368.51  n/a     .000
04415>                     +     5.0 02:INT-3          5.71     .086 1986.0911_23:30  369.71  n/a     .000
04416>                     +     5.0 02:A3A            3.84     .047 1986.0912_ 0:05  369.71  n/a     .000
04417>                     +     5.0 02:A3C-R          1.21     .003 1986.0912_ 7:25  431.21  n/a     .000
04418>                   SUM=    5.0 01:J2            68.26     .516 1986.0912_ 6:35  369.74  n/a     .000
04419> R1986:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04420>      ROUTE CHANNEL    ->    5.0 02:J2            68.26     .516 1986.0912_ 6:35  369.74  n/a     .000
04421>        [RDT= 5.00] out<-     5.0 01:R2            68.26     .513 1986.0912_ 6:45  369.74  n/a     .000
04422>         [L/S/n=  359./ .560/.035]
04423>         {Vmax=  .634:Dmax=  .219}
04424> R1986:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04425>      CONTINUOUS NASHYD     5.0 01:A1A           21.43     .138 1986.0912_ 6:55  367.49 .465     .000
04426>         [CN= 36.1: N= 3.00: Tp= 1.68]
04427>         [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
04428>         [InterEventTime=  12.00]
04429> R1986:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04430>      CONTINUOUS STANDHYD    5.0 01:Pond1-In      10.00     .316 1986.0729_15:00  281.50 .356     .000
04431>         [XIMP=.38:TIMP=.74]
04432>         [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  Fe=****]
04433>         [Pervious     area: IAper= 4.67:SLPP=2.00:LGP= 500.:MNP=.250:SCP=   .0]
04434>         [Impervious   area: IAimp= 1.57:SLPI=1.50:LGI= 250.:MNI=.013:SCI=   .0]
04435>         [IaRECimp=  12.00: IaRECper=  12.00]
04436> R1986:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04437>      ROUTE RESERVOIR ->    5.0 02:Pond1-In      10.00     .316 1986.0729_15:00  281.50  n/a     .000
04438>                          out <=    5.0 01:Pond1-Out      10.00     .029 1986.0729_17:20  281.50  n/a     .000
04439>                overflow <=    5.0 03:Pond1-Over      .00     .000 1986.0401_ 0:00     .00  n/a     .000
04440>       {MxStoUsed=.2181E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=     0, TotDurOvf=    0.hrs}
04441> R1986:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04442>      CONTINUOUS NASHYD     5.0 01:A2             9.14     .155 1986.0911_23:40  371.08 .469     .000
04443>         [CN= 68.4: N= 3.00: Tp= 1.12]
04444>         [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
04445>         [InterEventTime=  12.00]
04446> R1986:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04447>      ADD HYD              5.0 02:R2            68.26     .513 1986.0912_ 6:45  369.74  n/a     .000
04448>                     +     5.0 02:A1A           21.43     .138 1986.0912_ 6:55  367.49  n/a     .000
04449>                     +     5.0 02:A2             9.14     .155 1986.0911_23:40  371.08  n/a     .000
04450>                     +     5.0 02:Pond1-Over      .00     .000 1986.0401_ 0:00     .00  n/a     .000
04451>                     +     5.0 02:Pond1-Out      10.00     .029 1986.0729_17:20  281.50  n/a     .000
04452>                   SUM=    5.0 01:J3            108.84     .813 1986.0912_ 6:40  361.29  n/a     .000
04453> R1986:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04454>      ROUTE CHANNEL    ->    5.0 02:J3            108.84     .813 1986.0912_ 6:40  361.29  n/a     .000
04455>        [RDT= 5.00] out<-     5.0 01:R3            108.84     .802 1986.0912_ 6:50  361.29  n/a     .000
04456>         [L/S/n=  396./ .305/.035]
04457>         {Vmax=  .472:Dmax=  .308}
04458> R1986:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04459>      CONTINUOUS NASHYD     5.0 01:SOUTH-1       20.21     .140 1986.0912_ 6:40  367.38 .465     .000
04460>         [CN= 35.5: N= 3.00: Tp= 1.40]
04461>         [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
04462>         [InterEventTime=  12.00]
04463> R1986:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04464>      ADD HYD              5.0 02:R3           108.84     .802 1986.0912_ 6:50  361.29  n/a     .000
04465>                     +     5.0 02:SOUTH-1       20.21     .140 1986.0912_ 6:40  367.38  n/a     .000
04466>                   SUM=    5.0 01:J4            129.05     .942 1986.0912_ 6:50  362.24  n/a     .000
04467> R1986:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04468>      ROUTE CHANNEL    ->    5.0 02:J4            129.05     .942 1986.0912_ 6:50  362.24  n/a     .000
04469>        [RDT= 5.00] out<-     5.0 01:R4            129.05     .932 1986.0912_ 7:00  362.25  n/a     .000
04470>         [L/S/n=  482./ .410/.035]
04471>         {Vmax=  .636:Dmax=  .399}
04472> R1986:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04473>      CONTINUOUS NASHYD     5.0 01:SOUTH-2       11.61     .103 1986.0912_ 6:20  367.49 .465     .000
04474>         [CN= 36.7: N= 3.00: Tp=  .96]
04475>         [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
04476>         [InterEventTime=  12.00]
04477> R1986:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04478>      ADD HYD              5.0 02:R4            129.05     .932 1986.0912_ 7:00  362.25  n/a     .000
04479>                     +     5.0 02:SOUTH-2       11.61     .103 1986.0912_ 6:20  367.49  n/a     .000
04480>                   SUM=    5.0 01:J5            140.66    1.015 1986.0912_ 6:55  362.68  n/a     .000
04481> R1986:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04482>      ROUTE CHANNEL    ->    5.0 02:J5            140.66    1.015 1986.0912_ 6:55  362.68  n/a     .000
04483>        [RDT= 5.00] out<-     5.0 01:R5            140.66    1.014 1986.0912_ 7:00  362.68  n/a     .000
04484>         [L/S/n=  181./ .500/.035]
04485>         {Vmax=  .644:Dmax=  .362}
04486> R1986:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04487>      CONTINUOUS NASHYD     5.0 01:SOUTH-3        7.98     .087 1986.0912_ 6:15  368.05 .465     .000
04488>         [CN= 42.6: N= 3.00: Tp=  .89]
04489>         [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
04490>         [InterEventTime=  12.00]
04491> R1986:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04492>      ADD HYD              5.0 02:R5            140.66    1.014 1986.0912_ 7:00  362.68  n/a     .000
04493>                     +     5.0 02:SOUTH-3        7.98     .087 1986.0912_ 6:15  368.05  n/a     .000
04494>                   SUM=    5.0 01:J6            148.64    1.080 1986.0912_ 6:55  362.97  n/a     .000
04495> R1986:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04496>      SAVE HYD             5.0 01:J6            148.64    1.080 1986.0912_ 6:55  362.97  n/a     .000
04497>         fname :J6.1986
04498>         remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
04499> R1986:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04500>      ROUTE CHANNEL    ->    5.0 02:J6            148.64    1.080 1986.0912_ 6:55  362.97  n/a     .000
04501>        [RDT= 5.00] out<-     5.0 01:R6            148.64    1.075 1986.0912_ 7:00  362.97  n/a     .000
04502>         [L/S/n=  323./ .440/.035]
04503>         {Vmax=  .672:Dmax=  .414}
04504> R1986:C00035------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04505>      CONTINUOUS NASHYD     5.0 01:SOUTH-4       14.99     .126 1986.0912_ 6:35  367.72 .465     .000
04506>         [CN= 39.5: N= 3.00: Tp= 1.23]
04507>         [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
04508>         [InterEventTime=  12.00]
04509> R1986:C00036------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04510>      ADD HYD              5.0 02:R6            148.64    1.075 1986.0912_ 7:00  362.97  n/a     .000
04511>                     +     5.0 02:SOUTH-4       14.99     .126 1986.0912_ 6:35  367.72  n/a     .000
04512>                   SUM=    5.0 01:Total        163.63    1.192 1986.0912_ 7:00  363.38  n/a     .000
04513> #**************************************************************************
04514> #**************************************************************************
04515> ##########################################################################
04516> # CONTINUOUS RAINFALL DATA
04517> ##########################################################################
04518> #**************************************************************************
04519> # STORMS
04520> #**************************************************************************
04521>   ** END OF RUN : 1986
04522>
04523> ****************************************************************************************************
04524>
04525>
04526>
04527>
04528>
04529>  RUN#:COMMAND#
04530> R1987:C00001-----------------------------------------------------------------------------
04531>      START
04532>         [TZERO =    .00 hrs on 19870401]
04533>         [METOUT=   2    (1=imperial, 2=metric output)]
04534>         [NSTORM=   0 ]
04535>         [NRUN  = 1987 ]
04536> #**************************************************************************
04537> #  SWMHYMO  / INPUT DATA FILE
04538> #**************************************************************************
04539> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
04540> #  Date        : 04-28-2021
04541> #  Modeller    : [J.B]
04542> #  Company     : JFSAinc.
04543> #  License #   :  2549237
04544> #**************************************************************************
04545> #**************************************************************************
04546> #**************************************************************************
04547> # Ottawa International Airport - April 1st to October 31st
04548> R1987:C00002-----------------------------------------------------------------------------
04549>   *  READ AES DATA
04550>       [Filename  = YOW_1967_2007.123                                          ]
04551>       [Start_date= 1987.0401: End_date= 1987.1031]
04552>       [DT= 60.min: Length= 5136.hrs: WetHrs=  405: DryHrs= 4731: PTOT= 564.50]
04553>       Maximum average rainfall intensities over
04554>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
04555>        20.00    13.90    14.00     7.05     4.87     2.46     1.84     1.40      .93    mm/hr
04556>        20.00    27.80    42.10    42.30    58.40    59.00    66.40    67.00    67.00    mm
04557>       19870724 19870724 19870724 19870724 19870724 19870725 19870726 19870726  date
04558>       Number of rainfall events per following interevent time
04559>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
04560>          149      128      112       83       66       48       41       33       20
04561>       Number of events with at least the following durations
04562>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
04563>          148       79       49       16        3        0        0        0        0
04564> R1987:C00003-----------------------------------------------------------------------------
04565>      COMPUTE API
04566>         [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
04567>         {APImax= 75.76: APIavg= 26.32: APImin=  5.88}
04568> R1987:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04569>      CONTINUOUS NASHYD     5.0 01:NORTH-1       34.70     .078 1987.0725_ 0:50  189.83 .336     .000
04570>         [CN= 38.1: N= 3.00: Tp= 4.12]
04571>         [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
04572>         [InterEventTime=  12.00]
04573> R1987:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04574>      CONTINUOUS NASHYD     5.0 01:NORTH-2       12.44     .084 1987.0724_22:40  190.52 .338     .000
04575>         [CN= 53.0: N= 3.00: Tp= 1.29]
04576>         [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
04577>         [InterEventTime=  12.00]
04578> R1987:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04579>      CONTINUOUS NASHYD     5.0 01:HWY-1          2.36     .038 1987.0724_15:40  194.66 .345     .000
04580>         [CN= 81.7: N= 3.00: Tp= 1.21]
04581>         [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
04582>         [InterEventTime=  12.00]
04583> R1987:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04584>      ADD HYD              5.0 02:NORTH-1       34.70     .078 1987.0725_ 0:50  189.83  n/a     .000
04585>                     +     5.0 02:NORTH-2       12.44     .084 1987.0724_22:40  190.52  n/a     .000
04586>                     +     5.0 02:HWY-1          2.36     .038 1987.0724_15:40  194.66  n/a     .000
04587>                   SUM=    5.0 01:J1            49.51     .176 1987.0724_22:45  190.23  n/a     .000
04588> R1987:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04589>      ROUTE CHANNEL    ->    5.0 02:J1            49.51     .176 1987.0724_22:45  190.23  n/a     .000
04590>        [RDT= 5.00] out<-     5.0 01:R1            49.51     .173 1987.0724_23:00  190.23  n/a     .000
04591>         [L/S/n=  478./ .440/.035]
04592>         {Vmax=  .462:Dmax=  .211}
04593> R1987:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04594>      CONTINUOUS NASHYD     5.0 01:INT-1          4.39     .031 1987.0724_16:05  191.01 .338     .000
04595>         [CN= 60.4: N= 3.00: Tp= 1.66]
04596>         [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
04597>         [InterEventTime=  12.00]
04598> R1987:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04599>      CONTINUOUS NASHYD     5.0 01:INT-2          3.61     .025 1987.0724_22:20  190.21 .337     .000
04600>         [CN= 47.4: N= 3.00: Tp=  .95]
04601>         [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
04602>         [InterEventTime=  12.00]
04603> R1987:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04604>      CONTINUOUS NASHYD     5.0 01:A3A            3.84     .028 1987.0724_15:55  190.87 .338     .000
04605>         [CN= 58.4: N= 3.00: Tp= 1.46]
04606>         [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
04607>         [InterEventTime=  12.00]
04608> R1987:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04609>   *  CONTINUOUS STANDHYD    5.0 01:Pond3-In       1.21     .043 1987.0724_13:00  294.88 .522     .000
04610>         [XIMP=.64:TIMP=.75]
04611>         [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  Fe=****]
04612>         [Pervious     area: IAper= 4.67:SLPP=2.50:LGP= 100.:MNP=.250:SCP=   .0]
04613>         [Impervious   area: IAimp= 1.57:SLPI=2.50:LGI=  50.:MNI=.013:SCI=   .0]
04614>         [IaRECimp=  12.00: IaRECper=  12.00]
04615> R1987:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04616>      ROUTE RESERVOIR ->    5.0 02:Pond3-In       1.21     .043 1987.0724_13:00  294.88  n/a     .000
04617>                          out <=    5.0 01:Pond3-Out      1.21     .003 1987.0724_22:05  294.86  n/a     .000
04618>                overflow <=    5.0 03:Pond3-Over      .00     .000 1987.0401_ 0:00     .00  n/a     .000
04619>       {MxStoUsed=.4011E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=     0, TotDurOvf=    0.hrs}
04620> R1987:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04621>      ADD HYD              5.0 02:Pond3-Over      .00     .000 1987.0401_ 0:00     .00  n/a     .000
04622>                     +     5.0 02:Pond3-Out      1.21     .003 1987.0724_22:05  294.86  n/a     .000
04623>                   SUM=    5.0 01:Pond3-Ditc     1.21     .003 1987.0724_22:05  294.86  n/a     .000
04624> R1987:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04625>      ROUTE CHANNEL    ->    5.0 02:Pond3-Out      1.21     .003 1987.0724_22:05  294.86  n/a     .000
04626>        [RDT= 5.00] out<-     5.0 01:A3C-R          1.21     .003 1987.0725_ 0:05  294.86  n/a     .000
04627>         [L/S/n=  500./ .140/.035]
04628>         {Vmax=  .076:Dmax=  .038}
04629> R1987:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04630>      CONTINUOUS NASHYD     5.0 01:INT-3          5.71     .056 1987.0724_15:30  190.87 .338     .000
04631>         [CN= 58.5: N= 3.00: Tp=  .89]
04632>         [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
04633>         [InterEventTime=  12.00]
04634> R1987:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04635>      ADD HYD              5.0 02:R1            49.51     .173 1987.0724_23:00  190.23  n/a     .000
04636>                     +     5.0 02:INT-1          4.39     .031 1987.0724_16:05  191.01  n/a     .000
04637>                     +     5.0 02:INT-2          3.61     .025 1987.0724_22:20  190.21  n/a     .000
04638>                     +     5.0 02:INT-3          5.71     .056 1987.0724_15:30  190.87  n/a     .000
04639>                     +     5.0 02:A3A            3.84     .028 1987.0724_15:55  190.87  n/a     .000
04640>                     +     5.0 02:A3C-R          1.21     .003 1987.0725_ 0:05  294.86  n/a     .000
04641>                   SUM=    5.0 01:J2            68.26     .301 1987.0724_22:40  192.21  n/a     .000
04642> R1987:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04643>      ROUTE CHANNEL    ->    5.0 02:J2            68.26     .301 1987.0724_22:40  192.21  n/a     .000
04644>        [RDT= 5.00] out<-     5.0 01:R2            68.26     .299 1987.0724_22:50  192.21  n/a     .000
04645>         [L/S/n=  359./ .560/.035]
04646>         {Vmax=  .527:Dmax=  .167}
04647> R1987:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04648>      CONTINUOUS NASHYD     5.0 01:A1A           21.43     .073 1987.0724_23:00  189.73 .336     .000
04649>         [CN= 36.1: N= 3.00: Tp= 1.68]
04650>         [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
04651>         [InterEventTime=  12.00]
04652> R1987:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04653>      CONTINUOUS STANDHYD    5.0 01:Pond1-In      10.00     .232 1987.0724_15:00  195.40 .346     .000
04654>         [XIMP=.38:TIMP=.74]
04655>         [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  Fe=****]
04656>         [Pervious     area: IAper= 4.67:SLPP=2.00:LGP= 500.:MNP=.250:SCP=   .0]
04657>         [Impervious   area: IAimp= 1.57:SLPI=1.50:LGI= 250.:MNI=.013:SCI=   .0]
04658>         [IaRECimp=  12.00: IaRECper=  12.00]
04659> R1987:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04660>      ROUTE RESERVOIR ->    5.0 02:Pond1-In      10.00     .232 1987.0724_15:00  195.40  n/a     .000
04661>                          out <=    5.0 01:Pond1-Out      10.00     .029 1987.0724_22:05  195.40  n/a     .000
04662>                overflow <=    5.0 03:Pond1-Over      .00     .000 1987.0401_ 0:00     .00  n/a     .000
04663>       {MxStoUsed=.2262E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=     0, TotDurOvf=    0.hrs}
04664> R1987:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04665>      CONTINUOUS NASHYD     5.0 01:A2             9.14     .104 1987.0724_15:40  191.73 .340     .000
04666>         [CN= 68.4: N= 3.00: Tp= 1.12]
04667>         [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
04668>         [InterEventTime=  12.00]
04669> R1987:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04670>      ADD HYD              5.0 02:R2            68.26     .299 1987.0724_22:50  192.21  n/a     .000
04671>                     +     5.0 02:A1A           21.43     .073 1987.0724_23:00  189.73  n/a     .000
04672>                     +     5.0 02:A2             9.14     .104 1987.0724_15:40  191.74  n/a     .000
04673>                     +     5.0 02:Pond1-Over      .00     .000 1987.0401_ 0:00     .00  n/a     .000
04674>                     +     5.0 02:Pond1-Out      10.00     .029 1987.0724_22:05  195.40  n/a     .000
04675>                   SUM=    5.0 01:J3            108.84     .491 1987.0724_22:45  191.97  n/a     .000
04676> R1987:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04677>      ROUTE CHANNEL    ->    5.0 02:J3            108.84     .491 1987.0724_22:45  191.97  n/a     .000
04678>        [RDT= 5.00] out<-     5.0 01:R3            108.84     .481 1987.0724_23:00  191.97  n/a     .000
04679>         [L/S/n=  396./ .305/.035]
04680>         {Vmax=  .425:Dmax=  .330}
```

```
04681> R1987:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04682>     CONTINUOUS NASHYD     5.0 01:SOUTH-1       20.21     .075 1987.0724_22:45  189.68 .336     .000
04683>       [CN= 35.5: N= 3.00: Tp= 1.40]
04684>       [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
04685>       [InterEventTime=  12.00]
04686> R1987:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04687>     ADD HYD               5.0 02:R3           108.84     .481 1987.0724_23:00  191.97  n/a     .000
04688>                     +     5.0 02:SOUTH-1       20.21     .075 1987.0724_22:45  189.68  n/a     .000
04689>                   SUM=    5.0 01:J4           129.05     .555 1987.0724_22:55  191.61  n/a     .000
04690> R1987:C00027------------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04691>     ROUTE CHANNEL   ->    5.0 02:J4           129.05     .555 1987.0724_22:55  191.61  n/a     .000
04692>      [RDT= 5.00] out<-    5.0 01:R4           129.05     .547 1987.0724_23:10  191.61  n/a     .000
04693>       [L/S/n=  482./ .410/.035]
04694>       {Vmax=  .572:Dmax=  .326}
04695> R1987:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04696>     CONTINUOUS NASHYD     5.0 01:SOUTH-2       11.61     .056 1987.0724_22:25  189.73 .336     .000
04697>       [CN= 36.7: N= 3.00: Tp=  .96]
04698>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
04699>       [InterEventTime=  12.00]
04700> R1987:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04701>     ADD HYD               5.0 02:R4           129.05     .547 1987.0724_23:10  191.61  n/a     .000
04702>                     +     5.0 02:SOUTH-2       11.61     .056 1987.0724_22:25  189.73  n/a     .000
04703>                   SUM=    5.0 01:J5           140.66     .589 1987.0724_23:05  191.45  n/a     .000
04704> R1987:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04705>     ROUTE CHANNEL   ->    5.0 02:J5           140.66     .589 1987.0724_23:05  191.45  n/a     .000
04706>      [RDT= 5.00] out<-    5.0 01:R5           140.66     .588 1987.0724_23:05  191.45  n/a     .000
04707>       [L/S/n=  181./ .500/.035]
04708>       {Vmax=  .542:Dmax=  .290}
04709> R1987:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04710>     CONTINUOUS NASHYD     5.0 01:SOUTH-3        7.98     .050 1987.0724_22:20  189.99 .337     .000
04711>       [CN= 42.6: N= 3.00: Tp=  .89]
04712>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
04713>       [InterEventTime=  12.00]
04714> R1987:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04715>     ADD HYD               5.0 02:R5           140.66     .588 1987.0724_23:05  191.45  n/a     .000
04716>                     +     5.0 02:SOUTH-3        7.98     .050 1987.0724_22:20  189.99  n/a     .000
04717>                   SUM=    5.0 01:J6           148.64     .623 1987.0724_23:05  191.37  n/a     .000
04718> R1987:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04719>     SAVE HYD              5.0 01:J6           148.64     .623 1987.0724_23:05  191.37  n/a     .000
04720>       fname :J6.1987
04721>       remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
04722> R1987:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04723>     ROUTE CHANNEL   ->    5.0 02:J6           148.64     .623 1987.0724_23:05  191.37  n/a     .000
04724>      [RDT= 5.00] out<-    5.0 01:R6           148.64     .619 1987.0724_23:10  191.36  n/a     .000
04725>       [L/S/n=  323./ .440/.035]
04726>       {Vmax=  .601:Dmax=  .335}
04727> R1987:C00035------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04728>     CONTINUOUS NASHYD     5.0 01:SOUTH-4       14.99     .069 1987.0724_22:35  189.83 .336     .000
04729>       [CN= 39.5: N= 3.00: Tp= 1.23]
04730>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
04731>       [InterEventTime=  12.00]
04732> R1987:C00036------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04733>     ADD HYD               5.0 02:R6           148.64     .619 1987.0724_23:10  191.36  n/a     .000
04734>                     +     5.0 02:SOUTH-4       14.99     .069 1987.0724_22:35  189.83  n/a     .000
04735>                   SUM=    5.0 01:Total        163.63     .680 1987.0724_23:05  191.22  n/a     .000
04736> ##============================================================================
04737> ##============================================================================
04738> ###########################################################################
04739> # CONTINUOUS RAINFALL DATA
04740> ###########################################################################
04741> #**************************************************************************
04742> # STORMS
04743> #**************************************************************************
04744>  ** END OF RUN : 1987
04745>
04746> ***************************************************************************************************
04747>
04748>
04749>
04750>
04751>
04752>  RUN#:COMMAND#
04753> R1988:C00001------------------------------------------------------------------------------------------
04754>      START                 [TIMDAT= 1988 1 1 0 0]
04755>       [TZERO =    .00 hrs on 19880401]
04756>       [METOUT=  2   (1=imperial, 2=metric output)]
04757>       [NSTORM=  0 ]
04758>       [NRUN  = 1988 ]
04759> #**************************************************************************
04760> #  SWMHYMO  / INPUT DATA FILE
04761> #**************************************************************************
04762> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
04763> #  Date        : 04-28-2021
04764> #  Modeller    : [J.B]
04765> #  Company     : JFSAinc.
04766> #  License #   :  2549237
04767> #**************************************************************************
04768> #**************************************************************************
04769> #**************************************************************************
04770> # Ottawa International Airport - April 1st to October 31st
04771> R1988:C00002------------------------------------------------------------------------------------------
04772>  *  READ AES DATA
04773>       [Filename  = YOW_1967_2007.123                                          ]
04774>       [Start_date= 1988.0401: End_date= 1988.1031]
04775>       {DT= 60.min: Length= 5136.hrs: WetHrs=  397: DryHrs= 4739: PTOT= 555.40}
04776>       Maximum average rainfall intensities over
04777>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
04778>        25.50    18.20    12.77     7.37     3.78     1.91     1.27      .95      .94    mm/hr
04779>        25.50    36.40    38.30    44.20    45.40    45.80    45.80    67.40    mm
04780>      19880917 19880726 19880625 19880625 19880625 19880625 19880625 19880626 19880625  date
04781>      Number of rainfall events per following interevent time
04782>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
04783>          140      110       90       65       54       45       40       34       20
04784>      Number of events with at least the following durations
04785>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
04786>          139       87       61       14        3        0        0        0        0
04787> R1988:C00003------------------------------------------------------------------------------------------
04788>      COMPUTE API
04789>       [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
04790>       {APImax= 66.04: APIavg= 26.21: APImin=  1.99}
04791> R1988:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04792>     CONTINUOUS NASHYD     5.0 01:NORTH-1       34.70     .067 1988.0625_16:35  190.33 .343     .000
04793>       [CN= 38.1: N= 3.00: Tp= 4.12]
04794>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
04795>       [InterEventTime=  12.00]
04796> R1988:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04797>     CONTINUOUS NASHYD     5.0 01:NORTH-2       12.44     .102 1988.0625_13:50  191.11 .344     .000
04798>       [CN= 53.0: N= 3.00: Tp= 1.29]
04799>       [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
04800>       [InterEventTime=  12.00]
04801> R1988:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04802>     CONTINUOUS NASHYD     5.0 01:HWY-1         2.36     .047 1988.0625_13:45  194.68 .351     .000
04803>       [CN= 81.7: N= 3.00: Tp= 1.21]
04804>       [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
04805>       [InterEventTime=  12.00]
04806> R1988:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04807>     ADD HYD               5.0 02:NORTH-1       34.70     .067 1988.0625_16:35  190.33  n/a     .000
04808>                     +     5.0 02:NORTH-2       12.44     .102 1988.0625_13:50  191.11  n/a     .000
04809>                     +     5.0 02:HWY-1          2.36     .047 1988.0625_13:45  194.68  n/a     .000
04810>                   SUM=    5.0 01:J1            49.51     .185 1988.0625_14:00  190.73  n/a     .000
04811> R1988:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04812>     ROUTE CHANNEL   ->    5.0 02:J1            49.51     .185 1988.0625_14:00  190.73  n/a     .000
04813>  *  [RDT= 5.00] out<-    5.0 01:R1            49.51     .181 1988.0625_14:15  190.73  n/a     .000
04814>       [L/S/n=  478./ .440/.035]
04815>       {Vmax=  .467:Dmax=  .215}
04816> R1988:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04817>     CONTINUOUS NASHYD     5.0 01:INT-1         4.39     .037 1988.0625_14:10  191.68 .345     .000
04818>       [CN= 60.4: N= 3.00: Tp= 1.66]
04819>       [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
04820>       [InterEventTime=  12.00]
04821> R1988:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04822>     CONTINUOUS NASHYD     5.0 01:INT-2         3.61     .031 1988.0625_13:35  190.76 .343     .000
04823>       [CN= 47.4: N= 3.00: Tp=  .95]
04824>       [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
04825>       [InterEventTime=  12.00]
04826> R1988:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04827>     CONTINUOUS NASHYD     5.0 01:A3A           3.84     .034 1988.0625_14:00  191.51 .345     .000
04828>       [CN= 58.4: N= 3.00: Tp= 1.46]
04829>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
04830>       [InterEventTime=  12.00]
04831> R1988:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04832>  *  CONTINUOUS STANDHYD    5.0 01:Pond1-In      1.21     .060 1988.0917_19:00  296.54 .534     .000
04833>       [XIMP=.64:TIMP=.75]
04834>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F=****]
04835>       [Pervious     area: IAper= 4.67:SLPP=2.50:LGP= 100.:MNP=.250:SCP=   .0]
04836>       [Impervious   area: IAimp= 1.57:SLPI=2.50:LGI=  50.:MNI=.013:SCI=   .0]
04837>       [IaRECimp=  12.00: IaRECper=  12.00]
04838> R1988:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04839>     ROUTE RESERVOIR  ->    5.0 02:Pond3-In       1.21     .060 1988.0917_19:00  296.54  n/a     .000
04840>                  out <=    5.0 01:Pond3-Out      1.21     .003 1988.0625_13:45  296.52  n/a     .000
04841>                overflow <=    5.0 03:Pond3-Over     .00     .000 1988.0401_ 0:00    .00  n/a     .000
04842>       {MxStoUsed=.4159E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=     0, TotDurOvf=    0.hrs}
04843> R1988:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04844>     ADD HYD               5.0 02:Pond3-Over     .00     .000 1988.0401_ 0:00    .00  n/a     .000
04845>                     +     5.0 02:Pond3-Out      1.21     .003 1988.0625_13:45  296.52  n/a     .000
04846>                   SUM=    5.0 01:Pond3-Ditc     1.21     .003 1988.0625_13:45  296.52  n/a     .000
04847> R1988:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04848>     ROUTE CHANNEL   ->    5.0 02:Pond3-Out      1.21     .003 1988.0625_13:45  296.52  n/a     .000
04849>      [RDT= 5.00] out<-    5.0 01:A3C-R          1.21     .003 1988.0625_19:45  296.52  n/a     .000
04850>       [L/S/n=  500./ .140/.035]
04851>       {Vmax=  .076:Dmax=  .039}
04852> R1988:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04853>     CONTINUOUS NASHYD     5.0 01:INT-3         5.71     .072 1988.0625_13:30  191.51 .345     .000
04854>       [CN= 58.5: N= 3.00: Tp=  .89]
04855>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
04856>       [InterEventTime=  12.00]
04857> R1988:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04858>     ADD HYD               5.0 02:R1            49.51     .181 1988.0625_14:15  190.73  n/a     .000
04859>                     +     5.0 02:INT-1          4.39     .037 1988.0625_14:10  191.68  n/a     .000
04860>                     +     5.0 02:INT-2          3.61     .031 1988.0625_13:35  190.76  n/a     .000
04861>                     +     5.0 02:INT-3          5.71     .072 1988.0625_13:30  191.51  n/a     .000
04862>                     +     5.0 02:A3A            3.84     .034 1988.0625_14:00  191.51  n/a     .000
04863>                     +     5.0 02:A3C-R          1.21     .003 1988.0625_19:45  296.52  n/a     .000
04864>                   SUM=    5.0 01:J2            68.26     .338 1988.0625_13:55  192.76  n/a     .000
04865> R1988:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04866>     ROUTE CHANNEL   ->    5.0 02:J2            68.26     .338 1988.0625_13:55  192.76  n/a     .000
04867>      [RDT= 5.00] out<-    5.0 01:R2            68.26     .335 1988.0625_14:05  192.76  n/a     .000
04868>       [L/S/n=  359./ .560/.035]
04869>       {Vmax=  .548:Dmax=  .177}
04870> R1988:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04871>     CONTINUOUS NASHYD     5.0 01:A1A           21.43     .079 1988.0625_14:15  190.22 .342     .000
04872>       [CN= 36.1: N= 3.00: Tp= 1.68]
04873>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
04874>       [InterEventTime=  12.00]
04875> R1988:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04876>     CONTINUOUS STANDHYD    5.0 01:Pond1-In      10.00     .346 1988.0625_13:00  210.19 .378     .000
04877>       [XIMP=.38:TIMP=.74]
04878>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F=****]
04879>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP= 500.:MNP=.250:SCP=   .0]
04880>       [Impervious   area: IAimp= 1.57:SLPI=1.50:LGI= 250.:MNI=.013:SCI=   .0]
04881>       [IaRECimp=  12.00: IaRECper=  12.00]
04882> R1988:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04883>     ROUTE RESERVOIR  ->    5.0 02:Pond1-In      10.00     .346 1988.0625_13:00  210.19  n/a     .000
04884>                  out <=    5.0 01:Pond1-Out     10.00     .030 1988.0625_15:15  210.19  n/a     .000
04885>                overflow <=    5.0 03:Pond1-Over     .00     .000 1988.0401_ 0:00    .00  n/a     .000
04886>       {MxStoUsed=.2353E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=     0, TotDurOvf=    0.hrs}
04887> R1988:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04888>     CONTINUOUS NASHYD     5.0 01:A2            9.14     .130 1988.0625_13:40  192.46 .347     .000
04889>       [CN= 68.4: N= 3.00: Tp=  .52]
04890>       [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
04891>       [InterEventTime=  12.00]
04892> R1988:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04893>     ADD HYD               5.0 02:R2           68.26     .335 1988.0625_14:05  192.76  n/a     .000
04894>                     +     5.0 02:A1A           21.43     .079 1988.0625_14:15  190.22  n/a     .000
04895>                     +     5.0 02:A2             9.14     .130 1988.0625_13:40  192.46  n/a     .000
04896>                     +     5.0 02:Pond1-Over     .00     .000 1988.0401_ 0:00    .00  n/a     .000
04897>                     +     5.0 02:Pond1-Out     10.00     .030 1988.0625_15:15  210.19  n/a     .000
04898>                   SUM=    5.0 01:J3           108.84     .565 1988.0625_14:00  193.83  n/a     .000
04899> R1988:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04900>     ROUTE CHANNEL   ->    5.0 02:J3           108.84     .565 1988.0625_14:00  193.83  n/a     .000
04901>      [RDT= 5.00] out<-    5.0 01:R3           108.84     .550 1988.0625_14:15  193.83  n/a     .000
04902>       [L/S/n=  396./ .305/.035]
04903>       {Vmax=  .435:Dmax=  .345}
04904> R1988:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04905>     CONTINUOUS NASHYD     5.0 01:SOUTH-1       20.21     .081 1988.0625_14:00  190.16 .342     .000
04906>       [CN= 35.5: N= 3.00: Tp= 1.40]
04907>       [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
04908>       [InterEventTime=  12.00]
04909> R1988:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04910>     ADD HYD               5.0 02:R3           108.84     .550 1988.0625_14:15  193.83  n/a     .000
04911>                     +     5.0 02:SOUTH-1       20.21     .081 1988.0625_14:00  190.16  n/a     .000
04912>                   SUM=    5.0 01:J4           129.05     .630 1988.0625_14:10  193.25  n/a     .000
04913> R1988:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04914>     ROUTE CHANNEL   ->    5.0 02:J4           129.05     .630 1988.0625_14:10  193.25  n/a     .000
04915>      [RDT= 5.00] out<-    5.0 01:R4           129.05     .618 1988.0625_14:25  193.25  n/a     .000
04916>       [L/S/n=  482./ .410/.035]
04917>       {Vmax=  .584:Dmax=  .340}
04918> R1988:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04919>     CONTINUOUS NASHYD     5.0 01:SOUTH-2       11.61     .065 1988.0625_13:35  190.22 .342     .000
04920>       [CN= 36.7: N= 3.00: Tp=  .96]
04921>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
04922>       [InterEventTime=  12.00]
04923> R1988:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04924>     ADD HYD               5.0 02:R4           129.05     .618 1988.0625_14:25  193.25  n/a     .000
04925>                     +     5.0 02:SOUTH-2       11.61     .065 1988.0625_13:35  190.22  n/a     .000
04926>                   SUM=    5.0 01:J5           140.66     .663 1988.0625_14:20  193.00  n/a     .000
04927> R1988:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04928>     ROUTE CHANNEL   ->    5.0 02:J5           140.66     .663 1988.0625_14:20  193.00  n/a     .000
04929>      [RDT= 5.00] out<-    5.0 01:R5           140.66     .661 1988.0625_14:25  193.00  n/a     .000
04930>       [L/S/n=  181./ .500/.035]
04931>       {Vmax=  .559:Dmax=  .303}
04932> R1988:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04933>     CONTINUOUS NASHYD     5.0 01:SOUTH-3        7.98     .060 1988.0625_13:35  190.51 .343     .000
04934>       [CN= 42.6: N= 3.00: Tp=  .89]
04935>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
04936>       [InterEventTime=  12.00]
04937> R1988:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04938>     ADD HYD               5.0 02:R5           140.66     .661 1988.0625_14:25  193.00  n/a     .000
04939>                     +     5.0 02:SOUTH-3        7.98     .060 1988.0625_13:35  190.51  n/a     .000
04940>                   SUM=    5.0 01:J6           148.64     .699 1988.0625_14:20  192.86  n/a     .000
04941> R1988:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04942>     SAVE HYD              5.0 01:J6           148.64     .699 1988.0625_14:20  192.86  n/a     .000
04943>       fname :J6.1988
04944>       remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
04945> R1988:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04946>     ROUTE CHANNEL   ->    5.0 02:J6           148.64     .699 1988.0625_14:20  192.86  n/a     .000
04947>      [RDT= 5.00] out<-    5.0 01:R6           148.64     .694 1988.0625_14:25  192.86  n/a     .000
04948>       [L/S/n=  323./ .440/.035]
04949>       {Vmax=  .612:Dmax=  .349}
04950> R1988:C00035------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04951>     CONTINUOUS NASHYD     5.0 01:SOUTH-4       14.99     .078 1988.0625_13:50  190.33 .343     .000
04952>       [CN= 39.5: N= 3.00: Tp= 1.23]
04953>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
04954>       [InterEventTime=  12.00]
04955> R1988:C00036------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04956>     ADD HYD               5.0 02:R6           148.64     .694 1988.0625_14:25  192.86  n/a     .000
04957>                     +     5.0 02:SOUTH-4       14.99     .078 1988.0625_13:50  190.33  n/a     .000
04958>                   SUM=    5.0 01:Total        163.63     .761 1988.0625_14:25  192.63  n/a     .000
04959> #============================================================================
04960> #============================================================================
04961> ###########################################################################
04962> # CONTINUOUS RAINFALL DATA
04963> ###########################################################################
04964> #**************************************************************************
04965> # STORMS
04966> #**************************************************************************
04967>  ** END OF RUN : 1988
04968>
04969> ***************************************************************************************************
04970>
04971>
04972>
04973>
04974>
04975>  RUN#:COMMAND#
04976> R1989:C00001------------------------------------------------------------------------------------------
04977>      START                 [TIMDAT= 1989 1 1 0 0]
04978>       [TZERO =    .00 hrs on 19890401]
04979>       [METOUT=  2   (1=imperial, 2=metric output)]
04980>       [NSTORM=  0 ]
04981>       [NRUN  = 1989 ]
04982> #**************************************************************************
04983> #  SWMHYMO  / INPUT DATA FILE
04984> #**************************************************************************
04985> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
04986> #  Date        : 04-28-2021
04987> #  Modeller    : [J.B]
04988> #  Company     : JFSAinc.
04989> #  License #   :  2549237
04990> #**************************************************************************
04991> #**************************************************************************
04992> #**************************************************************************
04993> # Ottawa International Airport - April 1st to October 31st
04994> R1989:C00002------------------------------------------------------------------------------------------
04995>  *  READ AES DATA
04996>       [Filename  = YOW_1967_2007.123                                          ]
04997>       [Start_date= 1989.0401: End_date= 1989.1031]
04998>       {DT= 60.min: Length= 5136.hrs: WetHrs=  350: DryHrs= 4786: PTOT= 458.80}
04999>       Maximum average rainfall intensities over
05000>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
05001>        22.70    12.60     8.93     5.75     3.03     1.69     1.14      .86      .59    mm/hr
05002>        22.70    25.20    26.80    34.50    36.30    40.60    40.90    41.30    42.50    mm
05003>      19890727 19890727 19890727 19890727 19890727 19890727 19891020 19891021 19891021 19891022  date
05004>      Number of rainfall events per following interevent time
05005>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
05006>          126      105       89       73       56       42       35       30       23
05007>      Number of events with at least the following durations
05008>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
05009>          126       69       45       15        3        0        0        0        0
05010> R1989:C00003------------------------------------------------------------------------------------------
05011>      COMPUTE API
05012>       [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
05013>       {APImax= 55.10: APIavg= 21.49: APImin=  4.32}
05014> R1989:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05015>     CONTINUOUS NASHYD     5.0 01:NORTH-1       34.70     .029 1989.0727_19:20  132.39 .289     .000
05016>       [CN= 38.1: N= 3.00: Tp= 4.12]
05017>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
05018>       [InterEventTime=  12.00]
05019> R1989:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05020>     CONTINUOUS NASHYD     5.0 01:NORTH-2       12.44     .039 1989.0727_16:20  133.65 .291     .000
05021>       [CN= 53.0: N= 3.00: Tp= 1.29]
05022>       [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
05023>       [InterEventTime=  12.00]
05024> R1989:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05025>     CONTINUOUS NASHYD     5.0 01:HWY-1         2.36     .021 1989.0727_16:10  140.45 .306     .000
05026>       [CN= 81.7: N= 3.00: Tp= 1.21]
05027>       [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
05028>       [InterEventTime=  12.00]
05029> R1989:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05030>     ADD HYD               5.0 02:NORTH-1       34.70     .029 1989.0727_19:20  132.39  n/a     .000
05031>                     +     5.0 02:NORTH-2       12.44     .039 1989.0727_16:20  133.65  n/a     .000
05032>                     +     5.0 02:HWY-1          2.36     .021 1989.0727_16:10  140.45  n/a     .000
05033>                   SUM=    5.0 01:J1            49.51     .076 1989.0727_16:30  133.09  n/a     .000
05034> R1989:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05035>     ROUTE CHANNEL   ->    5.0 02:J1            49.51     .076 1989.0727_16:30  133.09  n/a     .000
05036>  *  [RDT= 5.00] out<-    5.0 01:R1            49.51     .074 1989.0727_16:45  133.09  n/a     .000
05037>       [L/S/n=  478./ .440/.035]
05038>       {Vmax=  .364:Dmax=  .148}
05039> R1989:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05040>     CONTINUOUS NASHYD     5.0 01:INT-1         4.39     .015 1989.0727_16:45  134.60 .293     .000
```

```
05041>       [CN= 60.4: N= 3.00: Tp= 1.66]
05042>       [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
05043>       [InterEventTime=  12.00]
05044> R1989:C00010-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05045>      CONTINUOUS NASHYD     5.0 01:INT-2          3.61     .011 1989.0727_15:50  133.09 .290     .000
05046>       [CN= 47.4: N= 3.00: Tp= .95]
05047>       [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
05048>       [InterEventTime=  12.00]
05049> R1989:C00011-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05050>      CONTINUOUS NASHYD     5.0 01:A3A            3.84     .013 1989.0727_16:30  134.27 .293     .000
05051>       [CN= 58.4: N= 3.00: Tp= 1.46]
05052>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
05053>       [InterEventTime=  12.00]
05054> R1989:C00012-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05055> *  CONTINUOUS STANDHYD   5.0 01:Pond3-In       1.21     .052 1989.0727_15:00  231.43 .504     .000
05056>       [XIMP=.64:TIMP=.75]
05057>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  Fe=****]
05058>       [Pervious     area: IAper= 4.67:SLPP=2.50:LGP= 100.:MNP=.250:SCP=   .0]
05059>       [Impervious   area: IAimp= 1.57:SLPI=2.50:LGI=  50.:MNI=.013:SCI=   .0]
05060>       [IaRECimp=  12.00: IaRECper=  12.00]
05061> R1989:C00013-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05062>      ROUTE RESERVOIR ->    5.0 02:Pond3-In       1.21     .052 1989.0727_15:00  231.42  n/a     .000
05063>                  out <=    5.0 01:Pond3-Out      1.21     .003 1989.0727_17:00  231.40  n/a     .000
05064>              overflow <=   5.0 03:Pond3-Over      .00     .000 1989.0401_ 0:00    .00  n/a     .000
05065>       {MxStoUsed=.2689E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
05066> R1989:C00014-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05067>      ADD HYD               5.0 02:Pond3-Over      .00     .000 1989.0401_ 0:00    .00  n/a     .000
05068>                      +     5.0 02:Pond3-Out      1.21     .003 1989.0727_17:00  231.40  n/a     .000
05069>                    SUM=    5.0 01:Pond3-Ditc     1.21     .003 1989.0727_17:00  231.40  n/a     .000
05070> R1989:C00015-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05071>      ROUTE CHANNEL   ->    5.0 02:Pond3-Out      1.21     .003 1989.0727_17:00  231.40  n/a     .000
05072>       [RDT= 5.00] out<-    5.0 01:A3C-R          1.21     .003 1989.1020_20:05  231.40  n/a     .000
05073>       [L/S/n=  500./ .140/.035]
05074>       {Vmax=  .075:Dmax=  .038}
05075> R1989:C00016-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05076>      CONTINUOUS NASHYD     5.0 01:INT-3          5.71     .028 1989.0727_15:45  134.28 .293     .000
05077>       [CN= 58.5: N= 3.00: Tp=  .89]
05078>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
05079>       [InterEventTime=  12.00]
05080> R1989:C00017-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05081>      ADD HYD               5.0 02:R1             49.51     .074 1989.0727_16:45  133.09  n/a     .000
05082>                      +     5.0 02:INT-1           4.39     .015 1989.0727_16:45  134.60  n/a     .000
05083>                      +     5.0 02:INT-2           3.61     .011 1989.0727_15:50  133.09  n/a     .000
05084>                      +     5.0 02:INT-3           5.71     .028 1989.0727_15:45  134.28  n/a     .000
05085>                      +     5.0 02:A3A             3.84     .013 1989.0727_16:30  134.27  n/a     .000
05086>                      +     5.0 02:A3C-R           1.21     .003 1989.1020_20:05  231.40  n/a     .000
05087>                    SUM=    5.0 01:J2             68.26     .134 1989.0727_16:30  135.08  n/a     .000
05088> R1989:C00018-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05089>      ROUTE CHANNEL   ->    5.0 02:J2             68.26     .134 1989.0727_16:30  135.08  n/a     .000
05090>       [RDT= 5.00] out<-    5.0 01:R2             68.26     .134 1989.0727_16:40  135.08  n/a     .000
05091>       [L/S/n=  359./ .560/.035]
05092>       {Vmax=  .401:Dmax=  .114}
05093> R1989:C00019-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05094>      CONTINUOUS NASHYD     5.0 01:A1A            21.43     .030 1989.0727_16:50  132.20 .288     .000
05095>       [CN= 36.1: N= 3.00: Tp= 1.68]
05096>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
05097>       [InterEventTime=  12.00]
05098> R1989:C00020-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05099>      CONTINUOUS STANDHYD   5.0 01:Pond1-In       10.00     .281 1989.0727_15:00  147.30 .321     .000
05100>       [XIMP=.38:TIMP=.74]
05101>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  Fe=****]
05102>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP= 500.:MNP=.250:SCP=   .0]
05103>       [Impervious   area: IAimp= 1.57:SLPI=1.50:LGI= 250.:MNI=.013:SCI=   .0]
05104>       [IaRECimp=  12.00: IaRECper=  12.00]
05105> R1989:C00021-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05106>      ROUTE RESERVOIR ->    5.0 02:Pond1-In       10.00     .281 1989.0727_15:00  147.30  n/a     .000
05107>                  out <=    5.0 01:Pond1-Out      10.00     .026 1989.0727_17:25  147.30  n/a     .000
05108>              overflow <=   5.0 03:Pond1-Over      .00     .000 1989.0401_ 0:00    .00  n/a     .000
05109>       {MxStoUsed=.1370E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
05110> R1989:C00022-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05111>      CONTINUOUS NASHYD     5.0 02:A2             9.14     .053 1989.0727_16:05  136.02 .296     .000
05112>       [CN= 68.4: N= 3.00: Tp= 1.12]
05113>       [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
05114>       [InterEventTime=  12.00]
05115> R1989:C00023-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05116>      ADD HYD               5.0 02:R2             68.26     .134 1989.0727_16:40  135.08  n/a     .000
05117>                      +     5.0 02:A1A            21.43     .030 1989.0727_16:50  132.20  n/a     .000
05118>                      +     5.0 02:A2              9.14     .053 1989.0727_16:05  136.02  n/a     .000
05119>                      +     5.0 02:Pond1-Over      .00     .000 1989.0401_ 0:00    .00  n/a     .000
05120>                      +     5.0 02:Pond1-Out      10.00     .026 1989.0727_17:25  147.30  n/a     .000
05121>                    SUM=    5.0 01:J3            108.84     .238 1989.0727_16:30  135.71  n/a     .000
05122> R1989:C00024-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05123>      ROUTE CHANNEL   ->    5.0 02:J3            108.84     .238 1989.0727_16:30  135.71  n/a     .000
05124>       [RDT= 5.00] out<-    5.0 01:R3            108.84     .233 1989.0727_16:50  135.71  n/a     .000
05125>       [L/S/n=  396./ .305/.035]
05126>       {Vmax=  .386:Dmax=  .247}
05127> R1989:C00025-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05128>      CONTINUOUS NASHYD     5.0 01:SOUTH-1        20.21     .030 1989.0727_16:30  132.11 .288     .000
05129>       [CN= 35.5: N= 3.00: Tp= 1.40]
05130>       [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
05131>       [InterEventTime=  12.00]
05132> R1989:C00026-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05133>      ADD HYD               5.0 02:R3            108.84     .233 1989.0727_16:50  135.71  n/a     .000
05134>                      +     5.0 02:SOUTH-1        20.21     .030 1989.0727_16:30  132.11  n/a     .000
05135>                    SUM=    5.0 01:J4            129.05     .263 1989.0727_16:45  135.14  n/a     .000
05136> R1989:C00027-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05137>      ROUTE CHANNEL   ->    5.0 02:J4            129.05     .263 1989.0727_16:45  135.14  n/a     .000
05138>       [RDT= 5.00] out<-    5.0 01:R4            129.05     .259 1989.0727_17:00  135.14  n/a     .000
05139>       [L/S/n=  482./ .410/.035]
05140>       {Vmax=  .487:Dmax=  .239}
05141> R1989:C00028-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05142>      CONTINUOUS NASHYD     5.0 01:SOUTH-2        11.61     .024 1989.0727_15:50  132.20 .288     .000
05143>       [CN= 36.7: N= 3.00: Tp=  .96]
05144>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
05145>       [InterEventTime=  12.00]
05146> R1989:C00029-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05147>      ADD HYD               5.0 02:R4            129.05     .259 1989.0727_17:00  135.14  n/a     .000
05148>                      +     5.0 02:SOUTH-2        11.61     .024 1989.0727_15:50  132.20  n/a     .000
05149>                    SUM=    5.0 01:J5            140.66     .276 1989.0727_16:55  134.90  n/a     .000
05150> R1989:C00030-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05151>      ROUTE CHANNEL   ->    5.0 02:J5            140.66     .276 1989.0727_16:55  134.90  n/a     .000
05152>       [RDT= 5.00] out<-    5.0 01:R5            140.66     .275 1989.0727_17:00  134.90  n/a     .000
05153>       [L/S/n=  181./ .500/.035]
05154>       {Vmax=  .479:Dmax=  .233}
05155> R1989:C00031-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05156>      CONTINUOUS NASHYD     5.0 01:SOUTH-3         7.98     .022 1989.0727_15:45  132.68 .289     .000
05157>       [CN= 42.6: N= 3.00: Tp=  .89]
05158>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
05159>       [InterEventTime=  12.00]
05160> R1989:C00032-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05161>      ADD HYD               5.0 02:R5            140.66     .275 1989.0727_17:00  134.90  n/a     .000
05162>                      +     5.0 02:SOUTH-3         7.98     .022 1989.0727_15:45  132.68  n/a     .000
05163>                    SUM=    5.0 01:J6            148.64     .289 1989.0727_16:55  134.78  n/a     .000
05164> R1989:C00033-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05165>      SAVE HYD              5.0 01:J6            148.64     .289 1989.0727_16:55  134.78  n/a     .000
05166>       fname :J6.1989
05167>       remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
05168> R1989:C00034-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05169>      ROUTE CHANNEL   ->    5.0 02:J6            148.64     .289 1989.0727_16:55  134.78  n/a     .000
05170>       [RDT= 5.00] out<-    5.0 01:R6            148.64     .288 1989.0727_17:05  134.78  n/a     .000
05171>       [L/S/n=  323./ .440/.035]
05172>       {Vmax=  .519:Dmax=  .247}
05173> R1989:C00035-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05174>      CONTINUOUS NASHYD     5.0 01:SOUTH-4        14.99     .029 1989.0727_16:15  132.39 .289     .000
05175>       [CN= 39.5: N= 3.00: Tp= 1.23]
05176>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
05177>       [InterEventTime=  12.00]
05178> R1989:C00036-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05179>      ADD HYD               5.0 02:R6            148.64     .288 1989.0727_17:05  134.78  n/a     .000
05180>                      +     5.0 02:SOUTH-4        14.99     .029 1989.0727_16:15  132.39  n/a     .000
05181>                    SUM=    5.0 01:Total         163.63     .313 1989.0727_17:00  134.56  n/a     .000
05182> #=========================================================================
05183> #=========================================================================
05184> ##########################################################################
05185> # CONTINUOUS RAINFALL DATA
05186> ##########################################################################
05187> #*************************************************************************
05188> # STORMS
05189> #*************************************************************************
05190>  ** END OF RUN : 1989
05191>
05192> ************************************************************************************************************
05193>
05194>
05195>
05196>
05197>
05198>  RUN#:COMMAND#
05199> R1990:C00001-----------------------------------------------------------------------------------------------
05200>      START
05201>       [TZERO =    .00 hrs on 19900401]
05202>       [METOUT=  2   (1=imperial, 2=metric output)]
05203>       [NSTORM=  0 ]
05204>       [NRUN  = 1990 ]
05205> #*************************************************************************
05206> #  SWMHYMO  // INPUT DATA FILE
05207> #*************************************************************************
05208> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
05209> #  Date        : 04-28-2021
05210> #  Modeller    : [J.B]
05211> #  Company     : JFSAinc.
05212> #  License #   : 2549237
05213> #*************************************************************************
05214> #*************************************************************************
05215> #*************************************************************************
05216> # Ottawa International Airport - April 1st to October 31st
05217> R1990:C00002-----------------------------------------------------------------------------------------------
05218>      READ AES DATA
05219>       [Filename  = YOW_1967_2007.123                                    ]
05220>       [Start_date= 1990.0401: End_date= 1990.1031]

05221>       {DT= 60.min: Length= 5136.hrs: WetHrs=  494: DryHrs= 4642: PTOT= 603.10}
05222>       Maximum average rainfall intensities over
05223>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
05224>        20.60    12.25     9.60     5.58     4.43     2.25     1.50     1.23     1.06    mm/hr
05225>        20.60    24.50    28.80    33.50    53.20    54.00    54.00    59.00    76.60    mm
05226>       19900720 19900720 19900828 19900828 19900720 19900720 19900720 19900720 19900723  date
05227>       Number of rainfall events per following interevent time
05228>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
05229>          167      131      116       90       69       50       42       35       23
05230>       Number of events with at least the following durations
05231>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
05232>          166       91       57       23        6        1        0        0        0
05233> R1990:C00003-----------------------------------------------------------------------------------------------
05234>      COMPUTE API
05235>       [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
05236>       [APImax= 75.10: APIavg= 28.05: APImin=  4.70]
05237> R1990:C00004-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05238>      CONTINUOUS NASHYD     5.0 01:NORTH-1        34.70     .075 1990.0720_16:40  242.37 .402     .000
05239>       [CN= 38.1: N= 3.00: Tp= 4.12]
05240>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
05241>       [InterEventTime=  12.00]
05242> R1990:C00005-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05243>      CONTINUOUS NASHYD     5.0 01:NORTH-2        12.44     .092 1990.0720_14:20  243.77 .404     .000
05244>       [CN= 53.0: N= 3.00: Tp= 1.29]
05245>       [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
05246>       [InterEventTime=  12.00]
05247> R1990:C00006-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05248>      CONTINUOUS NASHYD     5.0 01:HWY-1           2.36     .036 1990.0720_14:10  249.68 .414     .000
05249>       [CN= 81.7: N= 3.00: Tp= 1.21]
05250>       [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
05251>       [InterEventTime=  12.00]
05252> R1990:C00007-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05253>      ADD HYD               5.0 02:NORTH-1        34.70     .075 1990.0720_16:40  242.37  n/a     .000
05254>                      +     5.0 02:NORTH-2        12.44     .092 1990.0720_14:20  243.77  n/a     .000
05255>                      +     5.0 02:HWY-1           2.36     .036 1990.0720_14:10  249.68  n/a     .000
05256>                    SUM=    5.0 01:J1             49.51     .180 1990.0720_14:25  243.07  n/a     .000
05257> R1990:C00008-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05258>      ROUTE CHANNEL   ->    5.0 02:J1             49.51     .180 1990.0720_14:25  243.07  n/a     .000
05259> *    [RDT= 5.00] out<-    5.0 01:R1             49.51     .178 1990.0720_14:40  243.07  n/a     .000
05260>       [L/S/n=  478./ .440/.035]
05261>       {Vmax=  .464:Dmax=  .212}
05262> R1990:C00009-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05263>      CONTINUOUS NASHYD     5.0 01:INT-1           4.39     .034 1990.0720_14:35  244.74 .406     .000
05264>       [CN= 60.4: N= 3.00: Tp= 1.66]
05265>       [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
05266>       [InterEventTime=  12.00]
05267> R1990:C00010-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05268>      CONTINUOUS NASHYD     5.0 01:INT-2           3.61     .026 1990.0720_13:50  243.14 .403     .000
05269>       [CN= 47.4: N= 3.00: Tp=  .95]
05270>       [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
05271>       [InterEventTime=  12.00]
05272> R1990:C00011-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05273>      CONTINUOUS NASHYD     5.0 01:A3A             3.84     .031 1990.0720_14:25  244.45 .405     .000
05274>       [CN= 58.4: N= 3.00: Tp= 1.46]
05275>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
05276>       [InterEventTime=  12.00]
05277> R1990:C00012-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05278> *  CONTINUOUS STANDHYD   5.0 01:Pond3-In       1.21     .048 1990.0720_ 5:00  313.23 .519     .000
05279>       [XIMP=.64:TIMP=.75]
05280>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  Fe=****]
05281>       [Pervious     area: IAper= 4.67:SLPP=2.50:LGP= 100.:MNP=.250:SCP=   .0]
05282>       [Impervious   area: IAimp= 1.57:SLPI=2.50:LGI=  50.:MNI=.013:SCI=   .0]
05283>       [IaRECimp=  12.00: IaRECper=  12.00]
05284> R1990:C00013-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05285>      ROUTE RESERVOIR ->    5.0 02:Pond3-In       1.21     .048 1990.0720_ 5:00  313.23  n/a     .000
05286>                  out <=    5.0 01:Pond3-Out      1.21     .003 1990.0720_14:05  313.21  n/a     .000
05287>              overflow <=   5.0 03:Pond3-Over      .00     .000 1990.0401_ 0:00    .00  n/a     .000
05288>       {MxStoUsed=.3784E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
05289> R1990:C00014-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05290>      ADD HYD               5.0 02:Pond3-Over      .00     .000 1990.0401_ 0:00    .00  n/a     .000
05291>                      +     5.0 02:Pond3-Out      1.21     .003 1990.0720_14:05  313.21  n/a     .000
05292>                    SUM=    5.0 01:Pond3-Ditc     1.21     .003 1990.0720_14:05  313.21  n/a     .000
05293> R1990:C00015-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05294>      ROUTE CHANNEL   ->    5.0 02:Pond3-Out      1.21     .003 1990.0720_14:05  313.21  n/a     .000
05295>       [RDT= 5.00] out<-    5.0 01:A3C-R          1.21     .003 1990.0720_16:00  313.21  n/a     .000
05296>       [L/S/n=  500./ .140/.035]
05297>       {Vmax=  .075:Dmax=  .038}
05298> R1990:C00016-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05299>      CONTINUOUS NASHYD     5.0 01:INT-3           5.71     .059 1990.0720_13:45  244.45 .405     .000
05300>       [CN= 58.5: N= 3.00: Tp=  .89]
05301>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
05302>       [InterEventTime=  12.00]
05303> R1990:C00017-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05304>      ADD HYD               5.0 02:R1             49.51     .178 1990.0720_14:40  243.07  n/a     .000
05305>                      +     5.0 02:INT-1           4.39     .034 1990.0720_14:35  244.74  n/a     .000
05306>                      +     5.0 02:INT-2           3.61     .026 1990.0720_13:50  243.14  n/a     .000
05307>                      +     5.0 02:INT-3           5.71     .059 1990.0720_13:45  244.45  n/a     .000
05308>                      +     5.0 02:A3A             3.84     .031 1990.0720_14:25  244.45  n/a     .000
05309>                      +     5.0 02:A3C-R           1.21     .003 1990.0720_16:00  313.21  n/a     .000
05310>                    SUM=    5.0 01:J2             68.26     .317 1990.0720_14:25  244.59  n/a     .000
05311> R1990:C00018-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05312>      ROUTE CHANNEL   ->    5.0 02:J2             68.26     .317 1990.0720_14:25  244.59  n/a     .000
05313>       [RDT= 5.00] out<-    5.0 01:R2             68.26     .315 1990.0720_14:30  244.59  n/a     .000
05314>       [L/S/n=  359./ .560/.035]
05315>       {Vmax=  .536:Dmax=  .172}
05316> R1990:C00019-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05317>      CONTINUOUS NASHYD     5.0 01:A1A            21.43     .078 1990.0720_14:40  242.17 .402     .000
05318>       [CN= 36.1: N= 3.00: Tp= 1.68]
05319>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
05320>       [InterEventTime=  12.00]
05321> R1990:C00020-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05322>      CONTINUOUS STANDHYD   5.0 01:Pond1-In       10.00     .279 1990.0720_ 5:00  206.59 .343     .000
05323>       [XIMP=.38:TIMP=.74]
05324>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  Fe=****]
05325>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP= 500.:MNP=.250:SCP=   .0]
05326>       [Impervious   area: IAimp= 1.57:SLPI=1.50:LGI= 250.:MNI=.013:SCI=   .0]
05327>       [IaRECimp=  12.00: IaRECper=  12.00]
05328> R1990:C00021-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05329>      ROUTE RESERVOIR ->    5.0 02:Pond1-In       10.00     .279 1990.0720_ 5:00  206.59  n/a     .000
05330>                  out <=    5.0 01:Pond1-Out      10.00     .029 1990.0720_14:30  206.59  n/a     .000
05331>              overflow <=   5.0 03:Pond1-Over      .00     .000 1990.0401_ 0:00    .00  n/a     .000
05332>       {MxStoUsed=.2064E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
05333> R1990:C00022-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05334>      CONTINUOUS NASHYD     5.0 01:A2             9.14     .107 1990.0720_14:05  246.05 .408     .000
05335>       [CN= 68.4: N= 3.00: Tp= 1.12]
05336>       [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
05337>       [InterEventTime=  12.00]
05338> R1990:C00023-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05339>      ADD HYD               5.0 02:R2             68.26     .315 1990.0720_14:30  244.59  n/a     .000
05340>                      +     5.0 02:A1A            21.43     .078 1990.0720_14:40  242.17  n/a     .000
05341>                      +     5.0 02:A2              9.14     .107 1990.0720_14:05  246.05  n/a     .000
05342>                      +     5.0 02:Pond1-Over      .00     .000 1990.0401_ 0:00    .00  n/a     .000
05343>                      +     5.0 02:Pond1-Out      10.00     .029 1990.0720_14:30  206.59  n/a     .000
05344>                    SUM=    5.0 01:J3            108.84     .524 1990.0720_14:25  240.74  n/a     .000
05345> R1990:C00024-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05346>      ROUTE CHANNEL   ->    5.0 02:J3            108.84     .524 1990.0720_14:25  240.74  n/a     .000
05347>       [RDT= 5.00] out<-    5.0 01:R3            108.84     .515 1990.0720_14:40  240.74  n/a     .000
05348>       [L/S/n=  396./ .305/.035]
05349>       {Vmax=  .430:Dmax=  .337}
05350> R1990:C00025-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05351>      CONTINUOUS NASHYD     5.0 01:SOUTH-1        20.21     .077 1990.0720_14:25  242.07 .401     .000
05352>       [CN= 35.5: N= 3.00: Tp= 1.40]
05353>       [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
05354>       [InterEventTime=  12.00]
05355> R1990:C00026-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05356>      ADD HYD               5.0 02:R3            108.84     .515 1990.0720_14:40  240.74  n/a     .000
05357>                      +     5.0 02:SOUTH-1        20.21     .077 1990.0720_14:25  242.07  n/a     .000
05358>                    SUM=    5.0 01:J4            129.05     .592 1990.0720_14:35  240.94  n/a     .000
05359> R1990:C00027-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05360>      ROUTE CHANNEL   ->    5.0 02:J4            129.05     .592 1990.0720_14:35  240.94  n/a     .000
05361>       [RDT= 5.00] out<-    5.0 01:R4            129.05     .585 1990.0720_14:50  240.94  n/a     .000
05362>       [L/S/n=  482./ .410/.035]
05363>       {Vmax=  .578:Dmax=  .333}
05364> R1990:C00028-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05365>      CONTINUOUS NASHYD     5.0 01:SOUTH-2        11.61     .056 1990.0720_13:50  242.17 .402     .000
05366>       [CN= 36.7: N= 3.00: Tp=  .96]
05367>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
05368>       [InterEventTime=  12.00]
05369> R1990:C00029-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05370>      ADD HYD               5.0 02:R4            129.05     .585 1990.0720_14:50  240.94  n/a     .000
05371>                      +     5.0 02:SOUTH-2        11.61     .056 1990.0720_13:50  242.17  n/a     .000
05372>                    SUM=    5.0 01:J5            140.66     .629 1990.0720_14:40  241.04  n/a     .000
05373> R1990:C00030-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05374>      ROUTE CHANNEL   ->    5.0 02:J5            140.66     .629 1990.0720_14:40  241.04  n/a     .000
05375>       [RDT= 5.00] out<-    5.0 01:R5            140.66     .628 1990.0720_14:45  241.04  n/a     .000
05376>       [L/S/n=  181./ .500/.035]
05377>       {Vmax=  .551:Dmax=  .297}
05378> R1990:C00031-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05379>      CONTINUOUS NASHYD     5.0 01:SOUTH-3         7.98     .051 1990.0720_13:45  242.69 .402     .000
05380>       [CN= 42.6: N= 3.00: Tp=  .89]
05381>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
05382>       [InterEventTime=  12.00]
05383> R1990:C00032-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05384>      ADD HYD               5.0 02:R5            140.66     .628 1990.0720_14:45  241.04  n/a     .000
05385>                      +     5.0 02:SOUTH-3         7.98     .051 1990.0720_13:45  242.69  n/a     .000
05386>                    SUM=    5.0 01:J6            148.64     .665 1990.0720_14:40  241.13  n/a     .000
05387> R1990:C00033-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05388>      SAVE HYD              5.0 01:J6            148.64     .665 1990.0720_14:40  241.13  n/a     .000
05389>       fname :J6.1990
05390>       remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
05391> R1990:C00034-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05392>      ROUTE CHANNEL   ->    5.0 02:J6            148.64     .665 1990.0720_14:40  241.13  n/a     .000
05393>       [RDT= 5.00] out<-    5.0 01:R6            148.64     .662 1990.0720_14:50  241.13  n/a     .000
05394>       [L/S/n=  323./ .440/.035]
05395>       {Vmax=  .607:Dmax=  .343}
05396> R1990:C00035-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05397>      CONTINUOUS NASHYD     5.0 01:SOUTH-4        14.99     .071 1990.0720_14:15  242.37 .402     .000
05398>       [CN= 39.5: N= 3.00: Tp= 1.23]
05399>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
05400>       [InterEventTime=  12.00]
```

```
05401> R1990:C00036-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05402>     ADD HYD                 5.0 02:R6          148.64     .662 1990.0720_14:50  241.13  n/a     .000
05403>                       +     5.0 02:SOUTH-4      14.99     .071 1990.0720_14:15  242.37  n/a     .000
05404>                   SUM=      5.0 01:Total       163.63     .727 1990.0720_14:45  241.24  n/a     .000
05405> #================================================================================
05406> #================================================================================
05407> #################################################################################
05408> # CONTINUOUS RAINFALL DATA
05409> #################################################################################
05410> #*********************************************************************************
05411> # STORMS
05412> #*********************************************************************************
05413>  ** END OF RUN : 1990
05414>
05415> ***************************************************************************************************
05416>
05417>
05418>
05419>
05420>
05421>  RUN#:COMMAND#
05422> R1991:C00001-----------------------------------------------------------------------------------------
05423>      START                [TZERO =    .00 hrs on 19910401]
05424>      [TZERO =    .00 hrs on 19910401]
05425>      [METOUT=  2   (1=imperial, 2=metric output)]
05426>      [NSTORM=  0 ]
05427>      [NRUN  = 1991 ]
05428> #*********************************************************************************
05429> #  SWMHYMO  / INPUT DATA FILE
05430> #*********************************************************************************
05431> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
05432> #  Date        : 04-28-2021
05433> #  Modeller    : [J.B]
05434> #  Company     : JFSAinc.
05435> #  License #   :  2549237
05436> #*********************************************************************************
05437> #*********************************************************************************
05438> #*********************************************************************************
05439> # Ottawa International Airport - April 1st to October 31st
05440> R1991:C00002-----------------------------------------------------------------------------------------
05441>  *  READ AES DATA
05442>      [Filename  = YOW_1967_2007.123                                                  ]
05443>      [Start_date= 1991.0401: End_date= 1991.1031]
05444>      [DT= 60.min: Length= 5136.hrs: WetHrs=  412: DryHrs= 4724: PTOT= 482.20}
05445>      Maximum average rainfall intensities over
05446>        1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
05447>       11.30     9.90     6.87     4.10     2.53     1.72     1.28     1.08      .79    mm/hr
05448>       11.30    19.80    20.60    24.60    30.40    41.20    46.00    51.60    57.00    mm
05449>    19910409 19910409 19910409 19910409 19911016 19910422 19910410 19910410 19910423  date
05450>      Number of rainfall events per following intervent time
05451>        1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
05452>         135       65      113      105       83       65       49       39       34       27
05453>      Number of events with at least the following durations
05454>        1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
05455>         134       75       49       17        5        1        0        0        0
05456> R1991:C00003-----------------------------------------------------------------------------------------
05457>      COMPUTE API
05458>      [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
05459>      {APImax= 77.18: APIavg= 22.96: APImin=  3.08}
05460> R1991:C00004-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05461>     CONTINUOUS NASHYD     5.0 01:NORTH-1      34.70     .038 1991.0422_16:20  142.99  .297     .000
05462>      [CN= 38.1: N= 3.00: Tp= 4.12]
05463>      [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
05464>      [InterEventTime=  12.00]
05465> R1991:C00005-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05466>     CONTINUOUS NASHYD     5.0 01:NORTH-2      12.44     .045 1991.0410_ 4:10  144.05 .299     .000
05467>      [CN= 53.0: N= 3.00: Tp= 1.29]
05468>      [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
05469>      [InterEventTime=  12.00]
05470> R1991:C00006-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05471>     CONTINUOUS NASHYD     5.0 01:HWY-1         2.36     .019 1991.0410_ 4:00  148.83 .309     .000
05472>      [CN= 81.7: N= 3.00: Tp= 1.21]
05473>      [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
05474>      [InterEventTime=  12.00]
05475> R1991:C00007-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05476>     ADD HYD                 5.0 02:NORTH-1      34.70     .038 1991.0422_16:20  142.99  n/a     .000
05477>                       +     5.0 02:NORTH-2      12.44     .045 1991.0410_ 4:10  144.05  n/a     .000
05478>                       +     5.0 02:HWY-1         2.36     .019 1991.0410_ 4:00  148.83  n/a     .000
05479>                   SUM=      5.0 01:J1           49.51     .084 1991.0410_ 4:15  143.53  n/a     .000
05480> R1991:C00008-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05481>     ROUTE CHANNEL   ->     5.0 02:J1           49.51     .084 1991.0410_ 4:15  143.53  n/a     .000
05482>  *  [RDT= 5.00] out<-      5.0 01:R1           49.51     .081 1991.0410_ 4:35  143.53  n/a     .000
05483>      [L/S/n=  478./ .440/.035]
05484>      {Vmax=  .374:Dmax=  .154}
05485> R1991:C00009-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05486>     CONTINUOUS NASHYD     5.0 01:INT-1         4.39     .016 1991.0410_ 4:30  144.80 .300     .000
05487>      [CN= 60.4: N= 3.00: Tp= 1.66]
05488>      [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
05489>      [InterEventTime=  12.00]
05490> R1991:C00010-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05491>     CONTINUOUS NASHYD     5.0 01:INT-2         3.61     .014 1991.0410_ 3:45  143.58 .298     .000
05492>      [CN= 47.4: N= 3.00: Tp=  .95]
05493>      [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
05494>      [InterEventTime=  12.00]
05495> R1991:C00011-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05496>     CONTINUOUS NASHYD     5.0 01:A3A           3.84     .015 1991.0410_ 4:20  144.57 .300     .000
05497>      [CN= 58.4: N= 3.00: Tp= 1.46]
05498>      [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
05499>      [InterEventTime=  12.00]
05500> R1991:C00012-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05501>  *  CONTINUOUS STANDHYD    5.0 01:Pond3-In      1.21     .024 1991.0409_ 1:00  242.00 .502     .000
05502>      [XIMP=.64:TIMP=.75]
05503>      [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F=****]
05504>      [Pervious     area: IAper= 4.67:SLPP=2.50:LGP= 100.:MNP=.250:SCP=   .0]
05505>      [Impervious   area: IAimp= 1.57:SLPI=2.50:LGI=  50.:MNI=.013:SCI=   .0]
05506>      [IaRECimp=  12.00: IaRECper=  12.00]
05507> R1991:C00013-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05508>     ROUTE RESERVOIR ->     5.0 02:Pond3-In      1.21     .024 1991.0409_ 1:00  242.00  n/a     .000
05509>                   out <=   5.0 01:Pond3-Out     1.21     .003 1991.0422_ 4:05  241.98  n/a     .000
05510>           overflow <=      5.0 03:Pond3-Over      .00     .000 1991.0401_ 0:00     .00  n/a     .000
05511>      {MxStoUsed=.2183E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=     0, TotDurOvf=    0.hrs}
05512> R1991:C00014-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05513>     ADD HYD                 5.0 02:Pond3-Over      .00     .000 1991.0401_ 0:00     .00  n/a     .000
05514>                       +     5.0 02:Pond3-Out      1.21     .003 1991.0422_ 4:05  241.98  n/a     .000
05515>                   SUM=      5.0 01:Pond3-Ditc     1.21     .003 1991.0422_ 4:05  241.98  n/a     .000
05516> R1991:C00015-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05517>     ROUTE CHANNEL   ->     5.0 02:Pond3-Out      1.21     .003 1991.0422_ 4:05  241.98  n/a     .000
05518>      [RDT= 5.00] out<-     5.0 01:A3C-R          1.21     .003 1991.0422_ 7:00  241.98  n/a     .000
05519>      [L/S/n=  500./ .140/.035]
05520>      {Vmax=  .075:Dmax=  .038}
05521> R1991:C00016-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05522>     CONTINUOUS NASHYD     5.0 01:INT-3         5.71     .032 1991.0410_ 3:40  144.57 .300     .000
05523>      [CN= 58.5: N= 3.00: Tp=  .89]
05524>      [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
05525>      [InterEventTime=  12.00]
05526> R1991:C00017-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05527>     ADD HYD                 5.0 02:R1           49.51     .081 1991.0410_ 4:35  143.53  n/a     .000
05528>                       +     5.0 02:INT-1         4.39     .016 1991.0410_ 4:30  144.80  n/a     .000
05529>                       +     5.0 02:INT-2         3.61     .014 1991.0410_ 3:45  143.58  n/a     .000
05530>                       +     5.0 02:INT-3         5.71     .032 1991.0410_ 3:40  144.57  n/a     .000
05531>                       +     5.0 02:A3A           3.84     .015 1991.0410_ 4:20  144.57  n/a     .000
05532>                       +     5.0 02:A3C-R         1.21     .003 1991.0422_ 7:00  241.98  n/a     .000
05533>                   SUM=      5.0 01:J2           68.26     .149 1991.0410_ 4:15  145.49  n/a     .000
05534> R1991:C00018-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05535>     ROUTE CHANNEL   ->     5.0 02:J2           68.26     .149 1991.0410_ 4:15  145.49  n/a     .000
05536>      [RDT= 5.00] out<-     5.0 01:R2           68.26     .147 1991.0410_ 4:25  145.49  n/a     .000
05537>      [L/S/n=  359./ .560/.035]
05538>      {Vmax=  .412:Dmax=  .120}
05539> R1991:C00019-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05540>     CONTINUOUS NASHYD     5.0 01:A1A          21.43     .036 1991.0410_ 4:30  142.83 .296     .000
05541>      [CN= 36.1: N= 3.00: Tp= 1.68]
05542>      [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
05543>      [InterEventTime=  12.00]
05544> R1991:C00020-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05545>     CONTINUOUS STANDHYD    5.0 01:Pond1-In      10.00     .127 1991.0409_ 1:00  146.92 .305     .000
05546>      [XIMP=.38:TIMP=.74]
05547>      [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F=****]
05548>      [Pervious     area: IAper= 4.67:SLPP=2.00:LGP= 500.:MNP=.250:SCP=   .0]
05549>      [Impervious   area: IAimp= 1.57:SLPI=1.50:LGI= 250.:MNI=.013:SCI=   .0]
05550>      [IaRECimp=  12.00: IaRECper=  12.00]
05551> R1991:C00021-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05552>     ROUTE RESERVOIR ->     5.0 02:Pond1-In      10.00     .127 1991.0409_ 1:00  146.92  n/a     .000
05553>                   out <=   5.0 01:Pond1-Out     10.00     .023 1991.0409_ 5:10  146.92  n/a     .000
05554>           overflow <=      5.0 03:Pond1-Over      .00     .000 1991.0401_ 0:00     .00  n/a     .000
05555>      {MxStoUsed=.6943E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=     0, TotDurOvf=    0.hrs}
05556> R1991:C00022-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05557>     CONTINUOUS NASHYD     5.0 01:A2           9.14     .056 1991.0410_ 3:55  145.85 .302     .000
05558>      [CN= 68.4: N= 3.00: Tp= 1.12]
05559>      [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
05560>      [InterEventTime=  12.00]
05561> R1991:C00023-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05562>     ADD HYD                 5.0 02:R2           68.26     .147 1991.0410_ 4:25  145.49  n/a     .000
05563>                       +     5.0 02:A1A          21.43     .036 1991.0410_ 4:30  142.83  n/a     .000
05564>                       +     5.0 02:A2            9.14     .056 1991.0410_ 3:55  145.85  n/a     .000
05565>                       +     5.0 02:Pond1-Over      .00     .000 1991.0401_ 0:00     .00  n/a     .000
05566>                       +     5.0 02:Pond1-Out      10.00     .023 1991.0409_ 5:10  146.92  n/a     .000
05567>                   SUM=      5.0 01:J3           108.84     .253 1991.0410_ 4:15  145.12  n/a     .000
05568> R1991:C00024-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05569>     ROUTE CHANNEL   ->     5.0 02:J3           108.84     .253 1991.0410_ 4:15  145.12  n/a     .000
05570>      [RDT= 5.00] out<-     5.0 01:R3           108.84     .247 1991.0410_ 4:35  145.12  n/a     .000
05571>      {L/S/n=  396./ .305/.035}
05572>      {Vmax=  .388:Dmax=  .254}
05573> R1991:C00025-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05574>     CONTINUOUS NASHYD     5.0 01:SOUTH-1       20.21     .037 1991.0410_ 4:15  142.76 .296     .000
05575>      [CN= 35.5: N= 3.00: Tp= 1.40]
05576>      [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
05577>      [InterEventTime=  12.00]
05578> R1991:C00026-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05579>     ADD HYD                 5.0 02:R3           108.84     .247 1991.0410_ 4:35  145.12  n/a     .000
05580>                       +     5.0 02:SOUTH-1       20.21     .037 1991.0410_ 4:15  142.76  n/a     .000
05581>                   SUM=      5.0 01:J4           129.05     .282 1991.0410_ 4:30  144.75  n/a     .000
05582> R1991:C00027-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05583>     ROUTE CHANNEL   ->     5.0 02:J4           129.05     .282 1991.0410_ 4:30  144.75  n/a     .000
05584>      [RDT= 5.00] out<-     5.0 01:R4           129.05     .278 1991.0410_ 4:40  144.75  n/a     .000
05585>      [L/S/n=  482./ .410/.035]
05586>      {Vmax=  .504:Dmax=  .248}
05587> R1991:C00028-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05588>     CONTINUOUS NASHYD     5.0 01:SOUTH-2       11.61     .030 1991.0410_ 3:45  142.83 .296     .000
05589>      [CN= 36.7: N= 3.00: Tp=  .96]
05590>      [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
05591>      [InterEventTime=  12.00]
05592> R1991:C00029-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05593>     ADD HYD                 5.0 02:R4           129.05     .278 1991.0410_ 4:40  144.75  n/a     .000
05594>                       +     5.0 02:SOUTH-2       11.61     .030 1991.0410_ 3:45  142.83  n/a     .000
05595>                   SUM=      5.0 01:J5           140.66     .299 1991.0410_ 4:40  144.59  n/a     .000
05596> R1991:C00030-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05597>     ROUTE CHANNEL   ->     5.0 02:J5           140.66     .299 1991.0410_ 4:40  144.59  n/a     .000
05598>      [RDT= 5.00] out<-     5.0 01:R5           140.66     .298 1991.0410_ 4:45  144.59  n/a     .000
05599>      [L/S/n=  181./ .500/.035]
05600>      {Vmax=  .483:Dmax=  .237}
05601> R1991:C00031-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05602>     CONTINUOUS NASHYD     5.0 01:SOUTH-3        7.98     .027 1991.0410_ 3:40  143.23 .297     .000
05603>      [CN= 42.6: N= 3.00: Tp=  .89]
05604>      [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
05605>      [InterEventTime=  12.00]
05606> R1991:C00032-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05607>     ADD HYD                 5.0 02:R5           140.66     .298 1991.0410_ 4:45  144.59  n/a     .000
05608>                       +     5.0 02:SOUTH-3        7.98     .027 1991.0410_ 3:40  143.23  n/a     .000
05609>                   SUM=      5.0 01:J6           148.64     .314 1991.0410_ 4:40  144.51  n/a     .000
05610> R1991:C00033-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05611>     SAVE HYD                5.0 01:J6           148.64     .314 1991.0410_ 4:40  144.51  n/a     .000
05612>      fname= J6.1991
05613>      remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
05614> R1991:C00034-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05615>     ROUTE CHANNEL   ->     5.0 02:J6           148.64     .314 1991.0410_ 4:40  144.51  n/a     .000
05616>      [RDT= 5.00] out<-     5.0 01:R6           148.64     .311 1991.0410_ 4:50  144.51  n/a     .000
05617>      [L/S/n=  323./ .440/.035]
05618>      {Vmax=  .527:Dmax=  .254}
05619> R1991:C00035-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05620>     CONTINUOUS NASHYD     5.0 01:SOUTH-4       14.99     .035 1991.0410_ 4:05  142.99 .297     .000
05621>      [CN= 39.5: N= 3.00: Tp= 1.23]
05622>      [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
05623>      [InterEventTime=  12.00]
05624> R1991:C00036-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05625>     ADD HYD                 5.0 02:R6           148.64     .311 1991.0410_ 4:50  144.51  n/a     .000
05626>                       +     5.0 02:SOUTH-4       14.99     .035 1991.0410_ 4:05  142.99  n/a     .000
05627>                   SUM=      5.0 01:Total        163.63     .340 1991.0410_ 4:45  144.37  n/a     .000
05628> #================================================================================
05629> #################################################################################
05630> # CONTINUOUS RAINFALL DATA
05631> #################################################################################
05632> #*********************************************************************************
05633> # STORMS
05634> #*********************************************************************************
05635> #*********************************************************************************
05636>  ** END OF RUN : 1991
05637>
05638> ***************************************************************************************************
05639>
05640>
05641>
05642>
05643>
05644>  RUN#:COMMAND#
05645> R1992:C00001-----------------------------------------------------------------------------------------
05646>      START                [TZERO =    .00 hrs on 19920401]
05647>      [TZERO =    .00 hrs on 19920401]
05648>      [METOUT=  2   (1=imperial, 2=metric output)]
05649>      [NSTORM=  0 ]
05650>      [NRUN  = 1992 ]
05651> #*********************************************************************************
05652> #  SWMHYMO  / INPUT DATA FILE
05653> #*********************************************************************************
05654> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
05655> #  Date        : 04-28-2021
05656> #  Modeller    : [J.B]
05657> #  Company     : JFSAinc.
05658> #  License #   :  2549237
05659> #*********************************************************************************
05660> #*********************************************************************************
05661> #*********************************************************************************
05662> # Ottawa International Airport - April 1st to October 31st
05663> R1992:C00002-----------------------------------------------------------------------------------------
05664>      READ AES DATA
05665>      [Filename  = YOW_1967_2007.123                                                  ]
05666>      [Start_date= 1992.0401: End_date= 1992.1031]
05667>      [DT= 60.min: Length= 5136.hrs: WetHrs=  391: DryHrs= 4745: PTOT= 552.00}
05668>      Maximum average rainfall intensities over
05669>        1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
05670>       31.50    18.00    13.00     7.22     4.14     2.26     1.51     1.51     1.02    mm/hr
05671>       31.50    36.00    39.90    43.30    49.70    54.20    54.20    72.60    73.60    mm
05672>    19920804 19920804 19920804 19920804 19920717 19920718 19920718 19920719 19920720  date
05673>      Number of rainfall events per following intervent time
05674>        1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
05675>         148      119      105       79       64       49       41       34       26
05676>      Number of events with at least the following durations
05677>        1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
05678>         147       83       49       12        3        0        0        0        0
05679> R1992:C00003-----------------------------------------------------------------------------------------
05680>      COMPUTE API
05681>      [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
05682>      {APImax= 97.62: APIavg= 26.28: APImin=  7.40}
05683> R1992:C00004-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05684>     CONTINUOUS NASHYD     5.0 01:NORTH-1       34.70     .113 1992.0717_22:20  220.97 .400     .000
05685>      [CN= 38.1: N= 3.00: Tp= 4.12]
05686>      [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
05687>      [InterEventTime=  12.00]
05688> R1992:C00005-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05689>     CONTINUOUS NASHYD     5.0 01:NORTH-2       12.44     .145 1992.0717_19:35  221.24 .401     .000
05690>      [CN= 53.0: N= 3.00: Tp= 1.29]
05691>      [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
05692>      [InterEventTime=  12.00]
05693> R1992:C00006-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05694>     CONTINUOUS NASHYD     5.0 01:HWY-1         2.36     .058 1992.0717_19:20  222.43 .403     .000
05695>      [CN= 81.7: N= 3.00: Tp= 1.21]
05696>      [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
05697>      [InterEventTime=  12.00]
05698> R1992:C00007-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05699>     ADD HYD                 5.0 02:NORTH-1       34.70     .113 1992.0717_22:20  220.97  n/a     .000
05700>                       +     5.0 02:NORTH-2       12.44     .145 1992.0717_19:35  221.24  n/a     .000
05701>                       +     5.0 02:HWY-1         2.36     .058 1992.0717_19:20  222.43  n/a     .000
05702>                   SUM=      5.0 01:J1           49.51     .266 1992.0717_19:45  221.11  n/a     .000
05703> R1992:C00008-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05704>     ROUTE CHANNEL   ->     5.0 02:J1           49.51     .266 1992.0717_19:45  221.11  n/a     .000
05705>  *  [RDT= 5.00] out<-      5.0 01:R1           49.51     .263 1992.0717_20:00  221.11  n/a     .000
05706>      [L/S/n=  478./ .440/.035]
05707>      {Vmax=  .514:Dmax=  .250}
05708> R1992:C00009-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05709>     CONTINUOUS NASHYD     5.0 01:INT-1         4.39     .053 1992.0717_19:55  221.42 .401     .000
05710>      [CN= 60.4: N= 3.00: Tp= 1.66]
05711>      [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
05712>      [InterEventTime=  12.00]
05713> R1992:C00010-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05714>     CONTINUOUS NASHYD     5.0 01:INT-2         3.61     .041 1992.0717_19:15  221.12 .401     .000
05715>      [CN= 47.4: N= 3.00: Tp=  .95]
05716>      [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
05717>      [InterEventTime=  12.00]
05718> R1992:C00011-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05719>     CONTINUOUS NASHYD     5.0 01:A3A           3.84     .048 1992.0717_19:40  221.37 .401     .000
05720>      [CN= 58.4: N= 3.00: Tp= 1.46]
05721>      [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
05722>      [InterEventTime=  12.00]
05723> R1992:C00012-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05724>  *  CONTINUOUS STANDHYD    5.0 01:Pond3-In      1.21     .086 1992.0804_14:00  295.88 .536     .000
05725>      [XIMP=.64:TIMP=.75]
05726>      [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F=****]
05727>      [Pervious     area: IAper= 4.67:SLPP=2.50:LGP= 100.:MNP=.250:SCP=   .0]
05728>      [Impervious   area: IAimp= 1.57:SLPI=2.50:LGI=  50.:MNI=.013:SCI=   .0]
05729>      [IaRECimp=  12.00: IaRECper=  12.00]
05730> R1992:C00013-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05731>     ROUTE RESERVOIR ->     5.0 02:Pond3-In      1.21     .086 1992.0804_14:00  295.88  n/a     .000
05732>                   out <=   5.0 01:Pond3-Out     1.21     .003 1992.0717_20:00  295.86  n/a     .000
05733>           overflow <=      5.0 03:Pond3-Over      .00     .000 1992.0401_ 0:00     .00  n/a     .000
05734>      {MxStoUsed=.4431E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=     0, TotDurOvf=    0.hrs}
05735> R1992:C00014-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05736>     ADD HYD                 5.0 02:Pond3-Over      .00     .000 1992.0401_ 0:00     .00  n/a     .000
05737>                       +     5.0 02:Pond3-Out      1.21     .003 1992.0717_20:00  295.86  n/a     .000
05738>                   SUM=      5.0 01:Pond3-Ditc     1.21     .003 1992.0717_20:00  295.86  n/a     .000
05739> R1992:C00015-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05740>     ROUTE CHANNEL   ->     5.0 02:Pond3-Out      1.21     .003 1992.0717_20:00  295.86  n/a     .000
05741>      [RDT= 5.00] out<-     5.0 01:A3C-R          1.21     .003 1992.0717_22:15  295.86  n/a     .000
05742>      [L/S/n=  500./ .140/.035]
05743>      {Vmax=  .078:Dmax=  .038}
05744> R1992:C00016-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05745>     CONTINUOUS NASHYD     5.0 01:INT-3         5.71     .092 1992.0717_19:10  221.37 .401     .000
05746>      [CN= 58.5: N= 3.00: Tp=  .89]
05747>      [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
05748>      [InterEventTime=  12.00]
05749> R1992:C00017-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05750>     ADD HYD                 5.0 02:R1           49.51     .263 1992.0717_20:00  221.11  n/a     .000
05751>                       +     5.0 02:INT-1         4.39     .053 1992.0717_19:55  221.42  n/a     .000
05752>                       +     5.0 02:INT-2         3.61     .041 1992.0717_19:15  221.12  n/a     .000
05753>                       +     5.0 02:INT-3         5.71     .092 1992.0717_19:10  221.37  n/a     .000
05754>                       +     5.0 02:A3A           3.84     .048 1992.0717_19:40  221.37  n/a     .000
05755>                       +     5.0 02:A3C-R         1.21     .003 1992.0717_22:15  295.86  n/a     .000
05756>                   SUM=      5.0 01:J2           68.26     .480 1992.0717_19:40  222.47  n/a     .000
05757> R1992:C00018-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05758>     ROUTE CHANNEL   ->     5.0 02:J2           68.26     .480 1992.0717_19:40  222.47  n/a     .000
05759>      [RDT= 5.00] out<-     5.0 01:R2           68.26     .478 1992.0717_19:45  222.46  n/a     .000
05760>      [L/S/n=  359./ .560/.035]
```

```
05761>       {Vmax=  .618:Dmax=  .211}
05762> R1992:C00019-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05763>     CONTINUOUS NASHYD     5.0 01:A1A            21.43     .123 1992.0717_20:00  220.94 .400     .000
05764>       [CN= 36.1: N= 3.00: Tp= 1.68]
05765>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
05766>       [InterEventTime=  12.00]
05767> R1992:C00020-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05768>     CONTINUOUS STANDHYD   5.0 01:Pond1-In      10.00     .534 1992.0804_14:00  206.72 .375     .000
05769>       [XIMP=.38:TIMP=.74]
05770>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  Fe=***]
05771>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP= 500.:MNP=.250:SCP=   .0]
05772>       [Impervious   area: IAimp= 1.57:SLPI=1.50:LGI= 250.:MNI=.013:SCI=   .0]
05773>       [IaRECimp=  12.00: IaRECper=  12.00]
05774> R1992:C00021-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05775>     ROUTE RESERVOIR ->    5.0 02:Pond1-In      10.00     .534 1992.0804_14:00  206.73  n/a     .000
05776>                  out <=   5.0 01:Pond1-Out     10.00     .030 1992.0804_16:20  206.73  n/a     .000
05777>           overflow <=     5.0 03:Pond1-Over      .00     .000 1992.0401_ 0:00     .00  n/a     .000
05778>       {MxStoUsed=.2529E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
05779> R1992:C00022-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05780>     CONTINUOUS NASHYD     5.0 01:A2             9.14     .171 1992.0717_19:20  221.68 .402     .000
05781>       [CN= 68.4: N= 3.00: Tp= 1.12]
05782>       [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
05783>       [InterEventTime=  12.00]
05784> R1992:C00023-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05785>     ADD HYD               5.0 02:R2            68.26     .478 1992.0717_19:45  222.46  n/a     .000
05786>                     +     5.0 02:A1A           21.43     .123 1992.0717_20:00  220.94  n/a     .000
05787>                     +     5.0 02:A2             9.14     .171 1992.0717_19:20  221.68  n/a     .000
05788>                     +     5.0 02:Pond1-Over      .00     .000 1992.0401_ 0:00     .00  n/a     .000
05789>                     +     5.0 02:Pond1-Out      10.00     .030 1992.0804_16:20  206.73  n/a     .000
05790>                   SUM=    5.0 01:J3            108.84     .790 1992.0717_19:40  220.65  n/a     .000
05791> R1992:C00024-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05792>     ROUTE CHANNEL     ->    5.0 02:J3            108.84     .790 1992.0717_19:40  220.65  n/a     .000
05793>       [RDT= 5.00] out<-     5.0 01:R3            108.84     .780 1992.0717_19:50  220.65  n/a     .000
05794>       [L/S/n=  396./ .305/.035]
05795>       [Vmax=  .468:Dmax=  .385]
05796> R1992:C00025-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05797>     CONTINUOUS NASHYD     5.0 01:SOUTH-1       20.21     .123 1992.0717_19:40  220.92 .400     .000
05798>       [CN= 35.5: N= 3.00: Tp= 1.40]
05799>       [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
05800>       [InterEventTime=  12.00]
05801> R1992:C00026-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05802>     ADD HYD               5.0 02:R3            108.84     .780 1992.0717_19:50  220.65  n/a     .000
05803>                     +     5.0 02:SOUTH-1       20.21     .123 1992.0717_19:40  220.92  n/a     .000
05804>                   SUM=    5.0 01:J4            129.05     .902 1992.0717_19:50  220.68  n/a     .000
05805> R1992:C00027-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05806>     ROUTE CHANNEL     ->    5.0 02:J4            129.05     .902 1992.0717_19:50  220.68  n/a     .000
05807>       [RDT= 5.00] out<-     5.0 01:R4            129.05     .893 1992.0717_20:00  220.68  n/a     .000
05808>       [L/S/n=  482./ .410/.035]
05809>       [Vmax=  .629:Dmax=  .391]
05810> R1992:C00028-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05811>     CONTINUOUS NASHYD     5.0 01:SOUTH-2       11.61     .090 1992.0717_19:20  220.94 .400     .000
05812>       [CN= 36.7: N= 3.00: Tp=  .96]
05813>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
05814>       [InterEventTime=  12.00]
05815> R1992:C00029-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05816>     ADD HYD               5.0 02:R4            129.05     .893 1992.0717_20:00  220.68  n/a     .000
05817>                     +     5.0 02:SOUTH-2       11.61     .090 1992.0717_19:20  220.94  n/a     .000
05818>                   SUM=    5.0 01:J5            140.66     .966 1992.0717_19:55  220.70  n/a     .000
05819> R1992:C00030-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05820>     ROUTE CHANNEL     ->    5.0 02:J5            140.66     .966 1992.0717_19:55  220.70  n/a     .000
05821>       [RDT= 5.00] out<-     5.0 01:R5            140.66     .966 1992.0717_20:00  220.70  n/a     .000
05822>       [L/S/n=  181./ .500/.035]
05823>       [Vmax=  .642:Dmax=  .357]
05824> R1992:C00031-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05825>     CONTINUOUS NASHYD     5.0 01:SOUTH-3        7.98     .080 1992.0717_19:15  221.03 .400     .000
05826>       [CN= 42.6: N= 3.00: Tp=  .89]
05827>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
05828>       [InterEventTime=  12.00]
05829> R1992:C00032-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05830>     ADD HYD               5.0 02:R5            140.66     .966 1992.0717_20:00  220.70  n/a     .000
05831>                     +     5.0 02:SOUTH-3        7.98     .080 1992.0717_19:15  221.03  n/a     .000
05832>                   SUM=    5.0 01:J6            148.64    1.028 1992.0717_19:55  220.72  n/a     .000
05833> R1992:C00033-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05834>     SAVE HYD              5.0 01:J6            148.64    1.028 1992.0717_19:55  220.72  n/a     .000
05835>       fname :J6.1992
05836>       remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
05837> R1992:C00034-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05838>     ROUTE CHANNEL     ->    5.0 02:J6            148.64    1.028 1992.0717_19:55  220.72  n/a     .000
05839>       [RDT= 5.00] out<-     5.0 01:R6            148.64    1.024 1992.0717_20:05  220.72  n/a     .000
05840>       [L/S/n=  323./ .440/.035]
05841>       [Vmax=  .667:Dmax=  .407]
05842> R1992:C00035-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05843>     CONTINUOUS NASHYD     5.0 01:SOUTH-4       14.99     .114 1992.0717_19:30  220.97 .400     .000
05844>       [CN= 39.5: N= 3.00: Tp= 1.23]
05845>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
05846>       [InterEventTime=  12.00]
05847> R1992:C00036-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05848>     ADD HYD               5.0 02:R6            148.64    1.024 1992.0717_20:05  220.72  n/a     .000
05849>                     +     5.0 02:SOUTH-4       14.99     .114 1992.0717_19:30  220.97  n/a     .000
05850>                   SUM=    5.0 01:Total        163.63    1.130 1992.0717_20:00  220.74  n/a     .000
05851> #===============================================================================
05852> #===============================================================================
05853> ###############################################################################
05854> # CONTINUOUS RAINFALL DATA
05855> ###############################################################################
05856> #*******************************************************************************
05857> # STORMS
05858> #*******************************************************************************
05859>  ** END OF RUN : 1992
05860>
05861> *******************************************************************************************************************
05862>
05863>
05864>
05865>
05866>
05867>  RUN#:COMMAND#
05868> R1993:C00001-----------------------------------------------------------------------------------------------------
05869>      START
05870>       [TZERO =    .00 hrs on 19930401]
05871>       [METOUT=   2   (1=imperial, 2=metric output)]
05872>       [NSTORM=   0 ]
05873>       [NRUN  = 1993 ]
05874> #*******************************************************************************
05875> #  SWMHYMO    / INPUT DATA FILE
05876> #*******************************************************************************
05877> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
05878> #  Date        : 04-28-2021
05879> #  Modeller    : [J.B]
05880> #  Company     : JFSAinc.
05881> #  License #   : 2549237
05882> #*******************************************************************************
05883> #*******************************************************************************
05884> #*******************************************************************************
05885> # Ottawa International Airport - April 1st to October 31st
05886> R1993:C00002-----------------------------------------------------------------------------------------------------
05887>  *  READ AES DATA
05888>       [Filename  = YOW_1967_2007.123                                          ]
05889>       [Start_date= 1993.0401: End_date= 1993.1031]
05890>       {DT= 60.min: Length= 5136.hrs: WetHrs=  431: DryHrs= 4705: PTOT= 556.70}
05891>       Maximum average rainfall intensities over
05892>         1 hr    2 hrs   3 hrs   6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
05893>        12.60    6.60    4.80    3.22    2.20     1.22     1.02      .76      .51    mm/hr
05894>        12.60   13.20   14.40   19.30   26.40    29.20    36.60    36.60    36.60    mm
05895>       19930703 19930703 19930615 19931021 19930531 19930411 19930601 19930602 19930603  date
05896>       Number of rainfall events per following interevent time
05897>         1 hr    2 hrs   3 hrs   6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
05898>          155     126     113      90      76       59       46       38       25
05899>       Number of events with at least the following durations
05900>         1 hr    2 hrs   3 hrs   6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
05901>          154       4      88      51      19        4        1        0        0        0
05902> R1993:C00003-----------------------------------------------------------------------------------------------------
05903>      COMPUTE API
05904>       [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
05905>       {APImax= 55.58: APIavg= 26.07: APImin=  7.27}
05906> R1993:C00004-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05907>     CONTINUOUS NASHYD     5.0 01:NORTH-1       34.70     .017 1993.1021_ 9:25  142.72 .256     .000
05908>       [CN= 38.1: N= 3.00: Tp= 4.12]
05909>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
05910>       [InterEventTime=  12.00]
05911> R1993:C00005-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05912>     CONTINUOUS NASHYD     5.0 01:NORTH-2       12.44     .015 1993.0601_13:15  144.00 .259     .000
05913>       [CN= 53.0: N= 3.00: Tp= 1.29]
05914>       [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
05915>       [InterEventTime=  12.00]
05916> R1993:C00006-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05917>     CONTINUOUS NASHYD     5.0 01:HWY-1          2.36     .007 1993.1021_ 6:35  150.67 .271     .000
05918>       [CN= 81.7: N= 3.00: Tp= 1.21]
05919>       [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
05920>       [InterEventTime=  12.00]
05921> R1993:C00007-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05922>     ADD HYD               5.0 02:NORTH-1       34.70     .017 1993.1021_ 9:25  142.72  n/a     .000
05923>                     +     5.0 02:NORTH-2       12.44     .015 1993.0601_13:15  144.00  n/a     .000
05924>                     +     5.0 02:HWY-1          2.36     .007 1993.1021_ 6:35  150.67  n/a     .000
05925>                   SUM=    5.0 01:J1            49.51     .036 1993.1021_ 7:15  143.42  n/a     .000
05926> R1993:C00008-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05927>     ROUTE CHANNEL     ->    5.0 02:J1            49.51     .036 1993.1021_ 7:15  143.42 n/a      .000
05928>  *  [RDT= 5.00] out<-     5.0 01:R1            49.51     .036 1993.1021_ 7:30  143.42 n/a      .000
05929>       [L/S/n=  478./ .440/.035]
05930>       {Vmax=  .286:Dmax=  .110}
05931> R1993:C00009-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05932>     CONTINUOUS NASHYD     5.0 01:INT-1          4.39     .006 1993.1021_ 7:20  144.93 .260     .000
05933>       [CN= 60.4: N= 3.00: Tp= 1.66]
05934>       [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
05935>       [InterEventTime=  12.00]
05936> R1993:C00010-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05937>     CONTINUOUS NASHYD     5.0 01:INT-2          3.61     .005 1993.0601_12:50  143.42 .258     .000
05938>       [CN= 47.4: N= 3.00: Tp=  .95]
05939>       [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
05940>       [InterEventTime=  12.00]
05941> R1993:C00011-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05942>     CONTINUOUS NASHYD     5.0 01:A3A            3.84     .005 1993.1021_ 7:10  144.65 .260     .000
05943>       [CN= 58.4: N= 3.00: Tp= 1.46]
05944>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
05945>       [InterEventTime=  12.00]
05946> R1993:C00012-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05947>  *  CONTINUOUS STANDHYD   5.0 01:Pond3-In        1.21     .027 1993.0703_ 8:40  277.33 .498     .000
05948>       [XIMP=.64:TIMP=.75]
05949>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  Fe=***]
05950>       [Pervious     area: IAper= 4.67:SLPP=2.50:LGP= 100.:MNP=.250:SCP=   .0]
05951>       [Impervious   area: IAimp= 1.57:SLPI=2.50:LGI=  50.:MNI=.013:SCI=   .0]
05952>       [IaRECimp=  12.00: IaRECper=  12.00]
05953> R1993:C00013-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05954>     ROUTE RESERVOIR ->    5.0 02:Pond3-In        1.21     .027 1993.0703_ 8:40  277.33  n/a     .000
05955>                     out <=   5.0 01:Pond3-Out    1.21     .003 1993.1021_ 7:00  277.31  n/a     .000
05956>              overflow <=     5.0 03:Pond3-Over     .00     .000 1993.0401_ 0:00     .00  n/a     .000
05957>       {MxStoUsed=.1856E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
05958> R1993:C00014-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05959>     ADD HYD               5.0 02:Pond3-Over      .00     .000 1993.0401_ 0:00     .00  n/a     .000
05960>                     +     5.0 02:Pond3-Out      1.21     .003 1993.1021_ 7:00  277.31  n/a     .000
05961>                   SUM=    5.0 01:Pond3-Ditc     1.21     .003 1993.1021_ 7:00  277.31  n/a     .000
05962> R1993:C00015-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05963>     ROUTE CHANNEL     ->    5.0 02:Pond3-Out      1.21     .003 1993.1021_ 7:00  277.31  n/a     .000
05964>       [RDT= 5.00] out<-     5.0 01:A3C-R          1.21     .003 1993.0531_21:00  277.31  n/a     .000
05965>       [L/S/n=  500./ .140/.035]
05966>       {Vmax=  .074:Dmax=  .038}
05967> R1993:C00016-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05968>     CONTINUOUS NASHYD     5.0 01:INT-3          5.71     .010 1993.0601_12:45  144.65 .260     .000
05969>       [CN= 58.5: N= 3.00: Tp=  .89]
05970>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
05971>       [InterEventTime=  12.00]
05972> R1993:C00017-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05973>     ADD HYD               5.0 02:R1            49.51     .036 1993.1021_ 7:30  143.42  n/a     .000
05974>                     +     5.0 02:INT-1          4.39     .006 1993.1021_ 7:20  144.93  n/a     .000
05975>                     +     5.0 02:INT-2          3.61     .005 1993.0601_12:50  143.42  n/a     .000
05976>                     +     5.0 02:INT-3          5.71     .010 1993.0601_12:45  144.65  n/a     .000
05977>                     +     5.0 02:A3A            3.84     .005 1993.1021_ 7:10  144.65  n/a     .000
05978>                     +     5.0 02:A3C-R          1.21     .003 1993.0531_21:00  277.31  n/a     .000
05979>                   SUM=    5.0 01:J2            68.26     .061 1993.1021_ 7:15  146.04  n/a     .000
05980> R1993:C00018-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05981>     ROUTE CHANNEL     ->    5.0 02:J2            68.26     .061 1993.1021_ 7:15  146.04 n/a      .000
05982>       [RDT= 5.00] out<-     5.0 01:R2            68.26     .060 1993.1021_ 7:25  146.04 n/a      .000
05983>       [L/S/n=  359./ .560/.035]
05984>       {Vmax=  .303:Dmax=  .079}
05985> R1993:C00019-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05986>     CONTINUOUS NASHYD     5.0 01:A1A           21.43     .015 1993.1021_ 7:20  142.53 .256     .000
05987>       [CN= 36.1: N= 3.00: Tp= 1.68]
05988>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
05989>       [InterEventTime=  12.00]
05990> R1993:C00020-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05991>     CONTINUOUS STANDHYD   5.0 01:Pond1-In      10.00     .133 1993.0703_ 9:00  166.66 .299     .000
05992>       [XIMP=.38:TIMP=.74]
05993>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  Fe=***]
05994>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP= 500.:MNP=.250:SCP=   .0]
05995>       [Impervious   area: IAimp= 1.57:SLPI=1.50:LGI= 250.:MNI=.013:SCI=   .0]
05996>       [IaRECimp=  12.00: IaRECper=  12.00]
05997> R1993:C00021-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
05998>     ROUTE RESERVOIR ->    5.0 02:Pond1-In      10.00     .133 1993.0703_ 9:00  166.66  n/a     .000
05999>                     out <=   5.0 01:Pond1-Out     10.00     .020 1993.1021_ 7:00  166.66  n/a     .000
06000>              overflow <=     5.0 03:Pond1-Over      .00     .000 1993.0401_ 0:00     .00  n/a     .000
06001>       {MxStoUsed=.3582E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
06002> R1993:C00022-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06003>     CONTINUOUS NASHYD     5.0 01:A2             9.14     .019 1993.0601_13:05  146.22 .263     .000
06004>       [CN= 68.4: N= 3.00: Tp= 1.12]
06005>       [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
06006>       [InterEventTime=  12.00]
06007> R1993:C00023-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06008>     ADD HYD               5.0 02:R2            68.26     .060 1993.1021_ 7:25  146.04  n/a     .000
06009>                     +     5.0 02:A1A           21.43     .015 1993.1021_ 7:20  142.53  n/a     .000
06010>                     +     5.0 02:A2             9.14     .019 1993.0601_13:05  146.22  n/a     .000
06011>                     +     5.0 02:Pond1-Over      .00     .000 1993.0401_ 0:00     .00  n/a     .000
06012>                     +     5.0 02:Pond1-Out      10.00     .020 1993.1021_ 7:00  166.66  n/a     .000
06013>                   SUM=    5.0 01:J3            108.84     .111 1993.1021_ 7:15  147.25  n/a     .000
06014> R1993:C00024-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06015>     ROUTE CHANNEL     ->    5.0 02:J3            108.84     .111 1993.1021_ 7:15  147.25 n/a      .000
06016>       [RDT= 5.00] out<-     5.0 01:R3            108.84     .111 1993.1021_ 7:25  147.25 n/a      .000
06017>       [L/S/n=  396./ .305/.035]
06018>       {Vmax=  .327:Dmax=  .180}
06019> R1993:C00025-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06020>     CONTINUOUS NASHYD     5.0 01:SOUTH-1       20.21     .014 1993.1021_ 7:10  142.44 .256     .000
06021>       [CN= 35.5: N= 3.00: Tp= 1.40]
06022>       [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
06023>       [InterEventTime=  12.00]
06024> R1993:C00026-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06025>     ADD HYD               5.0 02:R3            108.84     .111 1993.1021_ 7:25  147.25  n/a     .000
06026>                     +     5.0 02:SOUTH-1       20.21     .014 1993.1021_ 7:10  142.44  n/a     .000
06027>                   SUM=    5.0 01:J4            129.05     .124 1993.1021_ 7:25  146.50  n/a     .000
06028> R1993:C00027-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06029>     ROUTE CHANNEL     ->    5.0 02:J4            129.05     .124 1993.1021_ 7:25  146.50 n/a      .000
06030>       [RDT= 5.00] out<-     5.0 01:R4            129.05     .123 1993.1021_ 7:40  146.50 n/a      .000
06031>       [L/S/n=  482./ .410/.035]
06032>       {Vmax=  .397:Dmax=  .178}
06033> R1993:C00028-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06034>     CONTINUOUS NASHYD     5.0 01:SOUTH-2       11.61     .010 1993.0601_12:50  142.53 .256     .000
06035>       [CN= 36.7: N= 3.00: Tp=  .96]
06036>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
06037>       [InterEventTime=  12.00]
06038> R1993:C00029-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06039>     ADD HYD               5.0 02:R4            129.05     .123 1993.1021_ 7:40  146.50  n/a     .000
06040>                     +     5.0 02:SOUTH-2       11.61     .010 1993.0601_12:50  142.53  n/a     .000
06041>                   SUM=    5.0 01:J5            140.66     .131 1993.1021_ 7:30  146.17  n/a     .000
06042> R1993:C00030-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06043>     ROUTE CHANNEL     ->    5.0 02:J5            140.66     .131 1993.1021_ 7:30  146.17 n/a      .000
06044>       [RDT= 5.00] out<-     5.0 01:R5            140.66     .131 1993.1021_ 7:40  146.17 n/a      .000
06045>       [L/S/n=  181./ .500/.035]
06046>       {Vmax=  .354:Dmax=  .162}
06047> R1993:C00031-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06048>     CONTINUOUS NASHYD     5.0 01:SOUTH-3        7.98     .009 1993.0601_12:45  143.01 .257     .000
06049>       [CN= 42.6: N= 3.00: Tp=  .89]
06050>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
06051>       [InterEventTime=  12.00]
06052> R1993:C00032-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06053>     ADD HYD               5.0 02:R5            140.66     .131 1993.1021_ 7:40  146.17  n/a     .000
06054>                     +     5.0 02:SOUTH-3        7.98     .009 1993.0601_12:45  143.01  n/a     .000
06055>                   SUM=    5.0 01:J6            148.64     .137 1993.1021_ 7:35  146.00  n/a     .000
06056> R1993:C00033-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06057>     SAVE HYD              5.0 01:J6            148.64     .137 1993.1021_ 7:35  146.00 n/a      .000
06058>       fname :J6.1993
06059>       remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
06060> R1993:C00034-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06061>     ROUTE CHANNEL     ->    5.0 02:J6            148.64     .137 1993.1021_ 7:35  146.00 n/a      .000
06062>       [RDT= 5.00] out<-     5.0 01:R6            148.64     .136 1993.1021_ 7:45  146.00 n/a      .000
06063>       [L/S/n=  323./ .440/.035]
06064>       {Vmax=  .416:Dmax=  .181}
06065> R1993:C00035-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06066>     CONTINUOUS NASHYD     5.0 01:SOUTH-4       14.99     .012 1993.0601_13:15  142.72 .256     .000
06067>       [CN= 39.5: N= 3.00: Tp= 1.23]
06068>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
06069>       [InterEventTime=  12.00]
06070> R1993:C00036-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06071>     ADD HYD               5.0 02:R6            148.64     .136 1993.1021_ 7:45  146.00  n/a     .000
06072>                     +     5.0 02:SOUTH-4       14.99     .012 1993.0601_13:15  142.72  n/a     .000
06073>                   SUM=    5.0 01:Total        163.63     .147 1993.1021_ 7:40  145.70  n/a     .000
06074> #===============================================================================
06075> #===============================================================================
06076> ###############################################################################
06077> # CONTINUOUS RAINFALL DATA
06078> ###############################################################################
06079> #*******************************************************************************
06080> # STORMS
06081> #*******************************************************************************
06082>  ** END OF RUN : 1993
06083>
06084> *******************************************************************************************************************
06085>
06086>
06087>
06088>
06089>
06090>  RUN#:COMMAND#
06091> R1994:C00001-----------------------------------------------------------------------------------------------------
06092>      START
06093>       [TZERO =    .00 hrs on 19940401]
06094>       [METOUT=   2   (1=imperial, 2=metric output)]
06095>       [NSTORM=   0 ]
06096>       [NRUN  = 1994 ]
06097> #*******************************************************************************
06098> #  SWMHYMO    / INPUT DATA FILE
06099> #*******************************************************************************
06100> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
06101> #  Date        : 04-28-2021
06102> #  Modeller    : [J.B]
06103> #  Company     : JFSAinc.
06104> #  License #   : 2549237
06105> #*******************************************************************************
06106> #*******************************************************************************
06107> #*******************************************************************************
06108> # Ottawa International Airport - April 1st to October 31st
06109> R1994:C00002-----------------------------------------------------------------------------------------------------
06110>  *  READ AES DATA
06111>       [Filename  = YOW_1967_2007.123                                          ]
06112>       [Start_date= 1994.0401: End_date= 1994.1031]
06113>       {DT= 60.min: Length= 4416.hrs: WetHrs=  305: DryHrs= 4111: PTOT= 514.50}
06114>       Maximum average rainfall intensities over
06115>         1 hr    2 hrs   3 hrs   6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
06116>        22.60   11.90    8.43    5.42    2.92     1.79     1.19      .89     1.15    mm/hr
06117>        22.60   23.80   25.30   32.50   35.00    42.90    42.90    42.90    82.60    mm
06118>       19940629 19940629 19940627 19940625 19940625 19940625 19940626 19940626 19940627  date
06119>       Number of rainfall events per following interevent time
06120>         1 hr    2 hrs   3 hrs   6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
```

```
06121>         124      104       90       71       56       42       33       28       19
06122>       Number of events with at least the following durations
06123>          1 hr     2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
06124>           123       66       42       11        1        0        0        0        0
06125> R1994:C00003-----------------------------------------------------------------------------------------------------
06126>       COMPUTE API
06127>        [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
06128>        {APImax= 97.84: APIavg= 27.87: APImin=  6.14}
06129> R1994:C00004-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06130>      CONTINUOUS NASHYD     5.0 01:NORTH-1       34.70     .045 1994.0627_14:35  193.35 .376     .000
06131>        [CN= 38.1: N= 3.00: Tp= 4.12]
06132>        [IaREC= 6.00: SMIN=168.62: SMAX=******: Sk= .030]
06133>        [InterEventTime=  12.00]
06134> R1994:C00005-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06135>      CONTINUOUS NASHYD     5.0 01:NORTH-2       12.44     .048 1994.0627_11:45  193.76 .377     .000
06136>        [CN= 53.0: N= 3.00: Tp= 1.29]
06137>        [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: Sk= .030]
06138>        [InterEventTime=  12.00]
06139> R1994:C00006-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06140>      CONTINUOUS NASHYD     5.0 01:HWY-1         2.36     .022 1994.0627_11:30  195.71 .380     .000
06141>        [CN= 81.7: N= 3.00: Tp= 1.21]
06142>        [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: Sk= .030]
06143>        [InterEventTime=  12.00]
06144> R1994:C00007-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06145>      ADD HYD               5.0 02:NORTH-1       34.70     .045 1994.0627_14:35  193.35  n/a     .000
06146>                       +     5.0 02:NORTH-2       12.44     .048 1994.0627_11:45  193.76  n/a     .000
06147>                       +     5.0 02:HWY-1          2.36     .022 1994.0627_11:30  195.71  n/a     .000
06148>                     SUM=    5.0 01:J1            49.51     .100 1994.0627_12:10  193.57  n/a     .000
06149> R1994:C00008-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06150>      ROUTE CHANNEL    ->     5.0 02:J1            49.51     .100 1994.0627_12:10  193.57  n/a     .000
06151> *   [RDT= 5.00] out<-     5.0 01:R1            49.51     .099 1994.0627_12:25  193.57  n/a     .000
06152>        [L/S/n=  478./ .440/.035]
06153>        {Vmax=  .392:Dmax=  .166}
06154> R1994:C00009-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06155>      CONTINUOUS NASHYD     5.0 01:INT-1         4.39     .019 1994.0627_12:15  194.05 .377     .000
06156>        [CN= 60.4: N= 3.00: Tp= 1.66]
06157>        [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: Sk= .030]
06158>        [InterEventTime=  12.00]
06159> R1994:C00010-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06160>      CONTINUOUS NASHYD     5.0 01:INT-2         3.61     .013 1994.0627_11:25  193.57 .376     .000
06161>        [CN= 47.4: N= 3.00: Tp=  .95]
06162>        [IaREC= 6.00: SMIN=115.26: SMAX=768.40: Sk= .030]
06163>        [InterEventTime=  12.00]
06164> R1994:C00011-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06165>      CONTINUOUS NASHYD     5.0 01:A3A           3.84     .017 1994.0627_12:05  193.96 .377     .000
06166>        [CN= 58.4: N= 3.00: Tp= 1.46]
06167>        [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: Sk= .030]
06168>        [InterEventTime=  12.00]
06169> R1994:C00012-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06170> *  CONTINUOUS STANDHYD   5.0 01:Pond3-In       1.21     .050 1994.0629_13:00  270.94 .527     .000
06171>        [XIMP=.64:TIMP=.75]
06172>        [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  Fe=****]
06173>        [Pervious    area: IAper= 4.67:SLPP=2.50:LGP= 100.:MNP=.250:SCP=   .0]
06174>        [Impervious  area: IAimp= 1.57:SLPI=2.50:LGI=  50.:MNI=.013:SCI=   .0]
06175>        [IaRECimp=  12.00: IaRECper=  12.00]
06176> R1994:C00013-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06177>      ROUTE RESERVOIR ->     5.0 02:Pond3-In      1.21     .050 1994.0629_13:00  270.94  n/a     .000
06178>                        out <=    5.0 01:Pond3-Out     1.21     .003 1994.0627_12:05  270.92  n/a     .000
06179>                overflow <=    5.0 03:Pond3-Over     .00     .000 1994.0401_ 0:00     .00  n/a     .000
06180>        {MxStoUsed=.2828E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
06181> R1994:C00014-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06182>      ADD HYD               5.0 02:Pond3-Over     .00     .000 1994.0401_ 0:00     .00  n/a     .000
06183>                       +     5.0 02:Pond3-Out     1.21     .003 1994.0627_12:05  270.92  n/a     .000
06184>                     SUM=    5.0 01:Pond3-Ditc    1.21     .003 1994.0627_12:05  270.92  n/a     .000
06185> R1994:C00015-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06186>      ROUTE CHANNEL    ->     5.0 02:Pond3-Out     1.21     .003 1994.0627_12:05  270.92  n/a     .000
06187>        [RDT= 5.00] out<-     5.0 01:A3C-R         1.21     .003 1994.0627_22:05  270.92  n/a     .000
06188>        [L/S/n=  500./ .140/.035]
06189>        {Vmax=  .075:Dmax=  .039}
06190> R1994:C00016-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06191>      CONTINUOUS NASHYD     5.0 01:INT-3         5.71     .029 1994.0627_11:20  193.96 .377     .000
06192>        [CN= 58.5: N= 3.00: Tp=  .89]
06193>        [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: Sk= .030]
06194>        [InterEventTime=  12.00]
06195> R1994:C00017-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06196>      ADD HYD               5.0 02:R1            49.51     .099 1994.0627_12:25  193.57  n/a     .000
06197>                       +     5.0 02:INT-1         4.39     .019 1994.0627_12:15  194.05  n/a     .000
06198>                       +     5.0 02:INT-2         3.61     .013 1994.0627_11:25  193.57  n/a     .000
06199>                       +     5.0 02:INT-3         5.71     .029 1994.0627_11:20  193.96  n/a     .000
06200>                       +     5.0 02:A3A           3.84     .017 1994.0627_12:05  193.96  n/a     .000
06201>                       +     5.0 02:A3C-R         1.21     .003 1994.0627_22:05  270.92  n/a     .000
06202>                     SUM=    5.0 01:J2           68.26     .173 1994.0627_12:05  195.01  n/a     .000
06203> R1994:C00018-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06204>      ROUTE CHANNEL    ->     5.0 02:J2            68.26     .173 1994.0627_12:05  195.01  n/a     .000
06205>        [RDT= 5.00] out<-     5.0 01:R2            68.26     .172 1994.0627_12:15  195.01  n/a     .000
06206>        [L/S/n=  359./ .560/.035]
06207>        {Vmax=  .430:Dmax=  .128}
06208> R1994:C00019-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06209>      CONTINUOUS NASHYD     5.0 01:A1A           21.43     .043 1994.0627_12:20  193.30 .376     .000
06210>        [CN= 36.1: N= 3.00: Tp= 1.68]
06211>        [IaREC= 6.00: SMIN=191.09: SMAX=******: Sk= .030]
06212>        [InterEventTime=  12.00]
06213> R1994:C00020-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06214>      CONTINUOUS STANDHYD   5.0 01:Pond1-In       10.00     .267 1994.0629_13:00  190.67 .371     .000
06215>        [XIMP=.38:TIMP=.74]
06216>        [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  Fe=****]
06217>        [Pervious    area: IAper= 4.67:SLPP=2.00:LGP= 500.:MNP=.250:SCP=   .0]
06218>        [Impervious  area: IAimp= 1.57:SLPI=1.50:LGI= 250.:MNI=.013:SCI=   .0]
06219>        [IaRECimp=  12.00: IaRECper=  12.00]
06220> R1994:C00021-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06221>      ROUTE RESERVOIR ->     5.0 02:Pond1-In      10.00     .267 1994.0629_13:00  190.67  n/a     .000
06222>                        out <=    5.0 01:Pond1-Out     10.00     .026 1994.0625_ 7:15  190.67  n/a     .000
06223>                overflow <=    5.0 03:Pond1-Over     .00     .000 1994.0401_ 0:00     .00  n/a     .000
06224>        {MxStoUsed=.1223E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
06225> R1994:C00022-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06226>      CONTINUOUS NASHYD     5.0 01:A2            9.14     .059 1994.0627_11:30  194.47 .378     .000
06227>        [CN= 68.4: N= 3.00: Tp= 1.12]
06228>        [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: Sk= .030]
06229>        [InterEventTime=  12.00]
06230> R1994:C00023-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06231>      ADD HYD               5.0 02:R2           68.26     .172 1994.0627_12:15  195.01  n/a     .000
06232>                       +     5.0 02:A1A          21.43     .043 1994.0627_12:20  193.30  n/a     .000
06233>                       +     5.0 02:A2            9.14     .059 1994.0627_11:30  194.47  n/a     .000
06234>                       +     5.0 02:Pond1-Over     .00     .000 1994.0401_ 0:00     .00  n/a     .000
06235>                       +     5.0 02:Pond1-Out     10.00     .026 1994.0625_ 7:15  190.67  n/a     .000
06236>                     SUM=    5.0 01:J3           108.84     .294 1994.0627_12:05  194.22  n/a     .000
06237> R1994:C00024-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06238>      ROUTE CHANNEL    ->     5.0 02:J3           108.84     .294 1994.0627_12:05  194.22  n/a     .000
06239>        [RDT= 5.00] out<-     5.0 01:R3           108.84     .291 1994.0627_12:20  194.22  n/a     .000
06240>        [L/S/n=  396./ .305/.035]
06241>        {Vmax=  .393:Dmax=  .271}
06242> R1994:C00025-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06243>      CONTINUOUS NASHYD     5.0 01:SOUTH-1       20.21     .041 1994.0627_12:05  193.27 .376     .000
06244>        [CN= 35.5: N= 3.00: Tp= 1.40]
06245>        [IaREC= 6.00: SMIN=204.20: SMAX=******: Sk= .030]
06246>        [InterEventTime=  12.00]
06247> R1994:C00026-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06248>      ADD HYD               5.0 02:R3           108.84     .291 1994.0627_12:20  194.22  n/a     .000
06249>                       +     5.0 02:SOUTH-1       20.21     .041 1994.0627_12:05  193.27  n/a     .000
06250>                     SUM=    5.0 01:J4           129.05     .332 1994.0627_12:20  194.07  n/a     .000
06251> R1994:C00027-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06252>      ROUTE CHANNEL    ->     5.0 02:J4           129.05     .332 1994.0627_12:20  194.07  n/a     .000
06253>        [RDT= 5.00] out<-     5.0 01:R4           129.05     .330 1994.0627_12:30  194.07  n/a     .000
06254>        [L/S/n=  482./ .410/.035]
06255>        {Vmax=  .516:Dmax=  .263}
06256> R1994:C00028-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06257>      CONTINUOUS NASHYD     5.0 01:SOUTH-2       11.61     .028 1994.0627_11:25  193.29 .376     .000
06258>        [CN= 36.7: N= 3.00: Tp=  .96]
06259>        [IaREC= 6.00: SMIN=191.09: SMAX=******: Sk= .030]
06260>        [InterEventTime=  12.00]
06261> R1994:C00029-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06262>      ADD HYD               5.0 02:R4           129.05     .330 1994.0627_12:30  194.07  n/a     .000
06263>                       +     5.0 02:SOUTH-2       11.61     .028 1994.0627_11:25  193.29  n/a     .000
06264>                     SUM=    5.0 01:J5           140.66     .353 1994.0627_12:25  194.01  n/a     .000
06265> R1994:C00030-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06266>      ROUTE CHANNEL    ->     5.0 02:J5           140.66     .353 1994.0627_12:25  194.01  n/a     .000
06267>        [RDT= 5.00] out<-     5.0 01:R5           140.66     .352 1994.0627_12:30  194.01  n/a     .000
06268>        [L/S/n=  181./ .500/.035]
06269>        {Vmax=  .493:Dmax=  .247}
06270> R1994:C00031-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06271>      CONTINUOUS NASHYD     5.0 01:SOUTH-3        7.98     .025 1994.0627_11:20  193.44 .376     .000
06272>        [CN= 42.6: N= 3.00: Tp=  .89]
06273>        [IaREC= 6.00: SMIN=141.94: SMAX=946.27: Sk= .030]
06274>        [InterEventTime=  12.00]
06275> R1994:C00032-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06276>      ADD HYD               5.0 02:R5           140.66     .352 1994.0627_12:30  194.01  n/a     .000
06277>                       +     5.0 02:SOUTH-3        7.98     .025 1994.0627_11:20  193.44  n/a     .000
06278>                     SUM=    5.0 01:J6           148.64     .372 1994.0627_12:25  193.97  n/a     .000
06279> R1994:C00033-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06280>      SAVE HYD              5.0 01:J6           148.64     .372 1994.0627_12:25  193.97  n/a     .000
06281>        fname :J6.1994
06282>        remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
06283> R1994:C00034-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06284>      ROUTE CHANNEL    ->     5.0 02:J6           148.64     .372 1994.0627_12:25  193.97  n/a     .000
06285>        [RDT= 5.00] out<-     5.0 01:R6           148.64     .370 1994.0627_12:35  193.97  n/a     .000
06286>        [L/S/n=  323./ .440/.035]
06287>        {Vmax=  .541:Dmax=  .270}
06288> R1994:C00035-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06289>      CONTINUOUS NASHYD     5.0 01:SOUTH-4       14.99     .037 1994.0627_11:45  193.35 .376     .000
06290>        [CN= 39.5: N= 3.00: Tp= 1.23]
06291>        [IaREC= 6.00: SMIN=168.62: SMAX=******: Sk= .030]
06292>        [InterEventTime=  12.00]
06293> R1994:C00036-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06294>      ADD HYD               5.0 02:R6           148.64     .370 1994.0627_12:35  193.97  n/a     .000
06295>                       +     5.0 02:SOUTH-4       14.99     .037 1994.0627_11:45  193.35  n/a     .000
06296>                     SUM=    5.0 01:Total        163.63     .404 1994.0627_12:30  193.91  n/a     .000
06297> ================================================================================
06298> ================================================================================
06299> ################################################################################
06300> # CONTINUOUS RAINFALL DATA

06301> ################################################################################
06302> #*******************************************************************************
06303> # STORMS
06304> #*******************************************************************************
06305>   ** END OF RUN : 1994
06306>
06307> ********************************************************************************************************
06308>
06309>
06310>
06311>
06312>
06313>  RUN#:COMMAND#
06314> R1995:C00001-----------------------------------------------------------------------------------------------
06315>       START
06316>        [TZERO =    .00 hrs on 19950401]
06317>        [METOUT=   2  (1=imperial, 2=metric output)]
06318>        [NSTORM=   0 ]
06319>        [NRUN  = 1995 ]
06320> #*******************************************************************************
06321> #  SWMHYMO  / INPUT DATA FILE
06322> #*******************************************************************************
06323> #  Project Name: [THUNDER ROAD]    Project Number: [2128]                                    ]
06324> #  Date       : 04-28-2021
06325> #  Modeller   : [J.B]
06326> #  Company    : JFSAinc.
06327> #  License #  :  2549237
06328> #*******************************************************************************
06329> #*******************************************************************************
06330> #*******************************************************************************
06331> # Ottawa International Airport - April 1st to October 31st
06332> R1995:C00002-----------------------------------------------------------------------------------------------
06333>  *  READ AES DATA
06334>        [Filename  = YOW_1967_2007.123                                                    ]
06335>        [Start_date= 1995.0401: End_date= 1995.1031]
06336>        [DT= 60.min: Length= 5136.hrs: WetHrs=  219: DryHrs= 4917: PTOT= 414.80}
06337>        Maximum average rainfall intensities over
06338>          1 hr     2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
06339>         16.90    13.25    11.33     8.98     6.35     3.48     2.95     2.21     1.48    mm/hr
06340>         16.90    26.50    34.00    53.90    76.20    83.40   106.20   106.20   106.20    mm
06341>        19950603 19950603 19951006 19951006 19951006 19951006 19951006 19951007 19951008  date
06342>        Number of rainfall events per following interevent time
06343>          1 hr     2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
06344>            61       51       46       39       36       31       26       23       15
06345>        Number of events with at least the following durations
06346>          1 hr     2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
06347>            60       35       23       10        5        0        0        0        0
06348> R1995:C00003-----------------------------------------------------------------------------------------------
06349>       COMPUTE API
06350>        [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
06351>        {APImax= 99.57: APIavg= 19.23: APImin=  .00}
06352> R1995:C00004-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06353>      CONTINUOUS NASHYD     5.0 01:NORTH-1       34.70     .185 1995.0603_12:05  202.02 .487     .000
06354>        [CN= 38.1: N= 3.00: Tp= 4.12]
06355>        [IaREC= 6.00: SMIN=168.62: SMAX=******: Sk= .030]
06356>        [InterEventTime=  12.00]
06357> R1995:C00005-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06358>      CONTINUOUS NASHYD     5.0 01:NORTH-2       12.44     .181 1995.0603_ 9:40  210.34 .507     .000
06359>        [CN= 53.0: N= 3.00: Tp= 1.29]
06360>        [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: Sk= .030]
06361>        [InterEventTime=  12.00]
06362> R1995:C00006-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06363>      CONTINUOUS NASHYD     5.0 01:HWY-1         2.36     .056 1995.1006_ 7:25  231.48 .558     .000
06364>        [CN= 81.7: N= 3.00: Tp= 1.21]
06365>        [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: Sk= .030]
06366>        [InterEventTime=  12.00]
06367> R1995:C00007-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06368>      ADD HYD               5.0 02:NORTH-1       34.70     .185 1995.0603_12:05  202.02  n/a     .000
06369>                       +     5.0 02:NORTH-2       12.44     .181 1995.0603_ 9:40  210.34  n/a     .000
06370>                       +     5.0 02:HWY-1          2.36     .056 1995.1006_ 7:25  231.48  n/a     .000
06371>                     SUM=    5.0 01:J1            49.51     .373 1995.0603_10:00  205.52  n/a     .000
06372> R1995:C00008-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06373>      ROUTE CHANNEL    ->     5.0 02:J1            49.51     .373 1995.0603_10:00  205.52  n/a     .000
06374> *   [RDT= 5.00] out<-     5.0 01:R1            49.51     .371 1995.0603_10:10  205.52  n/a     .000
06375>        [L/S/n=  478./ .440/.035]
06376>        {Vmax=  .560:Dmax=  .289}
06377> R1995:C00009-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06378>      CONTINUOUS NASHYD     5.0 01:INT-1         4.39     .066 1995.0603_10:05  215.10 .519     .000
06379>        [CN= 60.4: N= 3.00: Tp= 1.66]
06380>        [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: Sk= .030]
06381>        [InterEventTime=  12.00]
06382> R1995:C00010-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06383>      CONTINUOUS NASHYD     5.0 01:INT-2         3.61     .053 1995.0603_ 9:25  206.90 .499     .000
06384>        [CN= 47.4: N= 3.00: Tp=  .95]
06385>        [IaREC= 6.00: SMIN=115.26: SMAX=768.40: Sk= .030]
06386>        [InterEventTime=  12.00]
06387> R1995:C00011-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06388>      CONTINUOUS NASHYD     5.0 01:A3A           3.84     .059 1995.0603_ 9:50  213.74 .515     .000
06389>        [CN= 58.4: N= 3.00: Tp= 1.46]
06390>        [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: Sk= .030]
06391>        [InterEventTime=  12.00]
06392> R1995:C00012-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06393> *  CONTINUOUS STANDHYD   5.0 01:Pond3-In       1.21     .040 1995.0603_ 2:00  238.82 .576     .000
06394>        [XIMP=.64:TIMP=.75]
06395>        [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  Fe=****]
06396>        [Pervious    area: IAper= 4.67:SLPP=2.50:LGP= 100.:MNP=.250:SCP=   .0]
06397>        [Impervious  area: IAimp= 1.57:SLPI=2.50:LGI=  50.:MNI=.013:SCI=   .0]
06398>        [IaRECimp=  12.00: IaRECper=  12.00]
06399> R1995:C00013-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06400>      ROUTE RESERVOIR ->     5.0 02:Pond3-In      1.21     .040 1995.0603_ 2:00  238.82  n/a     .000
06401>                        out <=    5.0 01:Pond3-Out     1.21     .004 1995.0603_10:05  238.79  n/a     .000
06402>                overflow <=    5.0 03:Pond3-Over     .00     .000 1995.0401_ 0:00     .00  n/a     .000
06403>        {MxStoUsed=.5774E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
06404> R1995:C00014-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06405>      ADD HYD               5.0 02:Pond3-Over     .00     .000 1995.0401_ 0:00     .00  n/a     .000
06406>                       +     5.0 02:Pond3-Out     1.21     .004 1995.0603_10:05  238.79  n/a     .000
06407>                     SUM=    5.0 01:Pond3-Ditc    1.21     .004 1995.0603_10:05  238.79  n/a     .000
06408> R1995:C00015-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06409>      ROUTE CHANNEL    ->     5.0 02:Pond3-Out     1.21     .004 1995.0603_10:05  238.79  n/a     .000
06410>        [RDT= 5.00] out<-     5.0 01:A3C-R         1.21     .003 1995.0603_11:25  238.79  n/a     .000
06411>        [L/S/n=  500./ .140/.035]
06412>        {Vmax=  .084:Dmax=  .043}
06413> R1995:C00016-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06414>      CONTINUOUS NASHYD     5.0 01:INT-3         5.71     .108 1995.0603_ 9:20  213.74 .515     .000
06415>        [CN= 58.5: N= 3.00: Tp=  .89]
06416>        [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: Sk= .030]
06417>        [InterEventTime=  12.00]
06418> R1995:C00017-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06419>      ADD HYD               5.0 02:R1            49.51     .371 1995.0603_10:10  205.52  n/a     .000
06420>                       +     5.0 02:INT-1         4.39     .066 1995.0603_10:05  215.10  n/a     .000
06421>                       +     5.0 02:INT-2         3.61     .053 1995.0603_ 9:25  206.90  n/a     .000
06422>                       +     5.0 02:INT-3         5.71     .108 1995.0603_ 9:20  213.74  n/a     .000
06423>                       +     5.0 02:A3A           3.84     .059 1995.0603_ 9:50  213.74  n/a     .000
06424>                       +     5.0 02:A3C-R         1.21     .003 1995.0603_11:25  238.79  n/a     .000
06425>                     SUM=    5.0 02:J2           68.26     .636 1995.0603_ 9:45  207.92  n/a     .000
06426> R1995:C00018-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06427>      ROUTE CHANNEL    ->     5.0 02:J2           68.26     .636 1995.0603_ 9:45  207.92  n/a     .000
06428>        [RDT= 5.00] out<-     5.0 01:R2           68.26     .635 1995.0603_ 9:55  207.92  n/a     .000
06429>        [L/S/n=  359./ .560/.035]
06430>        {Vmax=  .679:Dmax=  .244}
06431> R1995:C00019-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06432>      CONTINUOUS NASHYD     5.0 01:A1A           21.43     .173 1995.0603_10:10  200.61 .484     .000
06433>        [CN= 36.1: N= 3.00: Tp= 1.68]
06434>        [IaREC= 6.00: SMIN=191.09: SMAX=******: Sk= .030]
06435>        [InterEventTime=  12.00]
06436> R1995:C00020-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06437>      CONTINUOUS STANDHYD   5.0 01:Pond1-In       10.00     .242 1995.0603_ 2:00  174.94 .422     .000
06438>        [XIMP=.38:TIMP=.74]
06439>        [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  Fe=****]
06440>        [Pervious    area: IAper= 4.67:SLPP=2.00:LGP= 500.:MNP=.250:SCP=   .0]
06441>        [Impervious  area: IAimp= 1.57:SLPI=1.50:LGI= 250.:MNI=.013:SCI=   .0]
06442>        [IaRECimp=  12.00: IaRECper=  12.00]
06443> R1995:C00021-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06444>      ROUTE RESERVOIR ->     5.0 02:Pond1-In      10.00     .242 1995.0603_ 2:00  174.94  n/a     .000
06445>                        out <=    5.0 01:Pond1-Out     10.00     .032 1995.0603_10:45  174.94  n/a     .000
06446>                overflow <=    5.0 03:Pond1-Over     .00     .000 1995.0401_ 0:00     .00  n/a     .000
06447>        {MxStoUsed=.3516E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
06448> R1995:C00022-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06449>      CONTINUOUS NASHYD     5.0 01:A2            9.14     .188 1995.0603_ 9:30  220.51 .532     .000
06450>        [CN= 68.4: N= 3.00: Tp= 1.12]
06451>        [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: Sk= .030]
06452>        [InterEventTime=  12.00]
06453> R1995:C00023-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06454>      ADD HYD               5.0 02:R2           68.26     .635 1995.0603_ 9:55  207.92  n/a     .000
06455>                       +     5.0 02:A1A          21.43     .173 1995.0603_10:10  200.61  n/a     .000
06456>                       +     5.0 02:A2            9.14     .188 1995.0603_ 9:30  220.51  n/a     .000
06457>                       +     5.0 02:Pond1-Over     .00     .000 1995.0401_ 0:00     .00  n/a     .000
06458>                       +     5.0 02:Pond1-Out     10.00     .032 1995.0603_10:45  174.94  n/a     .000
06459>                     SUM=    5.0 01:J3           108.84    1.016 1995.0603_ 9:50  204.51  n/a     .000
06460> R1995:C00024-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06461>      ROUTE CHANNEL    ->     5.0 02:J3           108.84    1.016 1995.0603_ 9:50  204.51  n/a     .000
06462>        [RDT= 5.00] out<-     5.0 01:R3           108.84    1.009 1995.0603_10:00  204.51  n/a     .000
06463>        [L/S/n=  396./ .305/.035]
06464>        {Vmax=  .595:Dmax=  .411}
06465> R1995:C00025-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06466>      CONTINUOUS NASHYD     5.0 01:SOUTH-1       20.21     .170 1995.0603_ 9:50  199.90 .482     .000
06467>        [CN= 35.5: N= 3.00: Tp= 1.40]
06468>        [IaREC= 6.00: SMIN=204.20: SMAX=******: Sk= .030]
06469>        [InterEventTime=  12.00]
06470> R1995:C00026-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06471>      ADD HYD               5.0 02:R3           108.84    1.009 1995.0603_10:00  204.51  n/a     .000
06472>                       +     5.0 02:SOUTH-1       20.21     .170 1995.0603_ 9:50  199.90  n/a     .000
06473>                     SUM=    5.0 01:J4           129.05    1.179 1995.0603_10:00  203.78  n/a     .000
06474> R1995:C00027-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06475>      ROUTE CHANNEL    ->     5.0 02:J4           129.05    1.179 1995.0603_10:00  203.78  n/a     .000
06476>        [RDT= 5.00] out<-     5.0 01:R4           129.05    1.170 1995.0603_10:10  203.78  n/a     .000
06477>        [L/S/n=  482./ .410/.035]
06478>        {Vmax=  .661:Dmax=  .432}
06479> R1995:C00028-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06480>      CONTINUOUS NASHYD     5.0 01:SOUTH-2       11.61     .121 1995.0603_ 9:25  200.61 .484     .000
```

```
06481>       [CN= 36.7: N= 3.00: Tp=  .96]
06482>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
06483>       [InterEventTime=  12.00]
06484> R1995:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06485>     ADD HYD              5.0 02:R4          129.05    1.170 1995.0603_10:10  203.78  n/a     .000
06486>                    +     5.0 02:SOUTH-2      11.61     .121 1995.0603_ 9:25  200.61  n/a     .000
06487>                  SUM=    5.0 01:J5          140.66    1.272 1995.0603_10:05  203.51  n/a     .000
06488> R1995:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06489>     ROUTE CHANNEL    ->    5.0 02:J5          140.66    1.272 1995.0603_10:05  203.51  n/a     .000
06490>      [RDT= 5.00] out<-    5.0 01:R5          140.66    1.271 1995.0603_10:10  203.51  n/a     .000
06491>       [L/S/n=  181./ .500/.035]
06492>       {Vmax=  .653:Dmax=  .384}
06493> R1995:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06494>     CONTINUOUS NASHYD    5.0 01:SOUTH-3       7.98     .104 1995.0603_ 9:20  204.13 .492     .000
06495>       [CN= 42.6: N= 3.00: Tp=  .89]
06496>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
06497>       [InterEventTime=  12.00]
06498> R1995:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06499>     ADD HYD              5.0 02:R5          140.66    1.271 1995.0603_10:10  203.51  n/a     .000
06500>                    +     5.0 02:SOUTH-3       7.98     .104 1995.0603_ 9:20  204.13  n/a     .000
06501>                  SUM=    5.0 01:J6          148.64    1.354 1995.0603_10:05  203.53  n/a     .000
06502> R1995:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06503>     SAVE HYD             5.0 01:J6          148.64    1.354 1995.0603_10:05  203.53  n/a     .000
06504>       fname :J6.1995
06505>       remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
06506> R1995:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06507>     ROUTE CHANNEL    ->    5.0 02:J6          148.64    1.354 1995.0603_10:05  203.53  n/a     .000
06508>      [RDT= 5.00] out<-    5.0 01:R6          148.64    1.350 1995.0603_10:10  203.53  n/a     .000
06509>       [L/S/n=  323./ .440/.035]
06510>       {Vmax=  .698:Dmax=  .449}
06511> R1995:C00035------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06512>     CONTINUOUS NASHYD    5.0 01:SOUTH-4       14.99     .153 1995.0603_ 9:40  202.02 .487     .000
06513>       [CN= 39.5: N= 3.00: Tp= 1.23]
06514>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
06515>       [InterEventTime=  12.00]
06516> R1995:C00036------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06517>     ADD HYD              5.0 02:R6          148.64    1.350 1995.0603_10:10  203.53  n/a     .000
06518>                    +     5.0 02:SOUTH-4       14.99     .153 1995.0603_ 9:40  202.02  n/a     .000
06519>                  SUM=    5.0 01:Total       163.63    1.495 1995.0603_10:10  203.39  n/a     .000
06520> #===============================================================================
06521> #===============================================================================
06522> #*******************************************************************************
06523> # CONTINUOUS RAINFALL DATA
06524> #*******************************************************************************
06525> #*******************************************************************************
06526> # STORMS
06527> #*******************************************************************************
06528>  ** END OF RUN : 1995
06529>
06530> ********************************************************************************************************************
06531>
06532>
06533>
06534>
06535>
06536>  RUN:#:COMMAND#
06537> R1996:C00001------------------------------------------------------------------------------------------------------
06538>      START
06539>       [TZERO =    .00 hrs on 19960401]
06540>       [METOUT=  2    (1=imperial, 2=metric output)]
06541>       [NSTORM=  0 ]
06542>       [NRUN  = 1996 ]
06543> #*******************************************************************************
06544> #  SWMHYMO  / INPUT DATA FILE
06545> #*******************************************************************************
06546> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
06547> #  Date        : 04-28-2021
06548> #  Modeller    : [J.B]
06549> #  Company     : JFSAinc.
06550> #  License #   :  2549237
06551> #*******************************************************************************
06552> #*******************************************************************************
06553> #*******************************************************************************
06554> # Ottawa International Airport - April 1st to October 31st
06555> R1996:C00002------------------------------------------------------------------------------------------------------
06556>  *  READ AES DATA
06557>       [Filename  = YOW_1967_2007.123                                          ]
06558>       [Start_date= 1996.0401: End_date= 1996.1031]
06559>       {DT= 60.min: Length= 4392.hrs: WetHrs=  306: DryHrs= 4086: PTOT= 426.50}
06560>       Maximum average rainfall intensities over
06561>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
06562>        18.50    13.55     9.03     5.42     2.93     1.60     1.25      .99      .70    mm/hr
06563>        18.50    27.10    32.50    35.10    38.50    45.10    47.50    50.30    mm
06564>       19960731 19960731 19960731 19960731 19960731 19960731 19960731 19960801 19960802  date
06565>       Number of rainfall events per following intervent time
06566>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
06567>          111       87       78       63       53       38       31       26       19
06568>       Number of events with at least the following durations
06569>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
06570>          110       63       42       14        1        0        0        0        0
06571> R1996:C00003------------------------------------------------------------------------------------------------------
06572>      COMPUTE API
06573>       [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
06574>       {APImax= 63.22: APIavg= 23.08: APImin=  4.15}
06575> R1996:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06576>     CONTINUOUS NASHYD    5.0 01:NORTH-1       34.70     .039 1996.0731_20:40  115.53 .271     .000
06577>       [CN= 38.1: N= 3.00: Tp= 4.12]
06578>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
06579>       [InterEventTime=  12.00]
06580> R1996:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06581>     CONTINUOUS NASHYD    5.0 01:NORTH-2       12.44     .045 1996.0731_16:40  116.75 .274     .000
06582>       [CN= 53.0: N= 3.00: Tp= 1.29]
06583>       [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
06584>       [InterEventTime=  12.00]
06585> R1996:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06586>     CONTINUOUS NASHYD    5.0 01:HWY-1          2.36     .023 1996.0731_16:35  122.64 .288     .000
06587>       [CN= 81.7: N= 3.00: Tp= 1.21]
06588>       [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
06589>       [InterEventTime=  12.00]
06590> R1996:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06591>     ADD HYD              5.0 02:NORTH-1       34.70     .039 1996.0731_20:40  115.53 .n/a     .000
06592>                    +     5.0 02:NORTH-2       12.44     .045 1996.0731_16:40  116.75 .n/a     .000
06593>                    +     5.0 02:HWY-1          2.36     .023 1996.0731_16:35  122.64  n/a     .000
06594>                  SUM=    5.0 01:J1            49.51     .086 1996.0731_16:50  116.18  n/a     .000
06595> R1996:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06596>     ROUTE CHANNEL    ->    5.0 02:J1            49.51     .086 1996.0731_16:50  116.18  n/a     .000
06597>  *   [RDT= 5.00] out<-    5.0 01:R1            49.51     .083 1996.0731_17:05  116.18  n/a     .000
06598>       [L/S/n=  478./ .440/.035]
06599>       {Vmax=  .376:Dmax=  .156}
06600> R1996:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06601>     CONTINUOUS NASHYD    5.0 01:INT-1          4.39     .017 1996.0731_17:00  117.62 .276     .000
06602>       [CN= 60.4: N= 3.00: Tp= 1.66]
06603>       [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
06604>       [InterEventTime=  12.00]
06605> R1996:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06606>     CONTINUOUS NASHYD    5.0 01:INT-2          3.61     .013 1996.0731_16:25  116.21 .272     .000
06607>       [CN= 47.4: N= 3.00: Tp=  .95]
06608>       [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
06609>       [InterEventTime=  12.00]
06610> R1996:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06611>     CONTINUOUS NASHYD    5.0 01:A3A            3.84     .015 1996.0731_16:50  117.36 .275     .000
06612>       [CN= 58.4: N= 3.00: Tp= 1.46]
06613>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
06614>       [InterEventTime=  12.00]
06615> R1996:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06616>  *  CONTINUOUS STANDHYD   5.0 01:Pond3-In       1.21     .040 1996.0731_15:00  217.27 .509     .000
06617>       [XIMP=.64:TIMP=.75]
06618>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  Fe=***]
06619>       [Pervious     area: IAper= 4.67:SLPP=2.50:LGP= 100.:MNP=.250:SCP=   .0]
06620>       [Impervious   area: IAimp= 1.57:SLPI=2.50:LGI= 50.:MNI=.013:SCI=   .0]
06621>       [IaRECimp=  12.00: IaRECper=  12.00]
06622> R1996:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06623>     ROUTE RESERVOIR  ->    5.0 02:Pond3-In       1.21     .040 1996.0731_15:00  217.27  n/a     .000
06624>                      out <=    5.0 01:Pond3-Out     1.21     .003 1996.0731_18:05  217.25  n/a     .000
06625>              overflow <=    5.0 03:Pond3-Over     .00      .000 1996.0402_ 0:00     .00  n/a     .000
06626>       {MxStOused=.2984E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=     0, TotDurOvf=    0.hrs}
06627> R1996:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06628>     ADD HYD              5.0 02:Pond3-Over     .00      .000 1996.0402_ 0:00     .00  n/a     .000
06629>                    +     5.0 02:Pond3-Out      1.21     .003 1996.0731_18:05  217.25  n/a     .000
06630>                  SUM=    5.0 01:Pond3-Dtic     1.21     .003 1996.0731_18:05  217.25  n/a     .000
06631> R1996:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06632>     ROUTE CHANNEL    ->    5.0 02:Pond3-Out      1.21     .003 1996.0731_18:05  217.25  n/a     .000
06633>      [RDT= 5.00] out<-    5.0 01:A3C-R          1.21     .003 1996.0731_23:25  217.25  n/a     .000
06634>       [L/S/n=  500./ .140/.035]
06635>       {Vmax=  .075:Dmax=  .039}
06636> R1996:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06637>     CONTINUOUS NASHYD    5.0 01:INT-3          5.71     .031 1996.0731_16:20  117.36 .275     .000
06638>       [CN= 58.5: N= 3.00: Tp=  .89]
06639>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
06640>       [InterEventTime=  12.00]
06641> R1996:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06642>     ADD HYD              5.0 02:R1            49.51     .083 1996.0731_17:05  116.18  n/a     .000
06643>                    +     5.0 02:INT-1          4.39     .017 1996.0731_17:00  117.62  n/a     .000
06644>                    +     5.0 02:INT-2          3.61     .013 1996.0731_16:25  116.21  n/a     .000
06645>                    +     5.0 02:INT-3          5.71     .031 1996.0731_16:20  117.36  n/a     .000
06646>                    +     5.0 02:A3A            3.84     .015 1996.0731_16:50  117.36  n/a     .000
06647>                    +     5.0 02:A3C-R          1.21     .003 1996.0731_23:25  217.25  n/a     .000
06648>                  SUM=    5.0 01:J2            68.26     .154 1996.0731_16:45  118.21  n/a     .000
06649> R1996:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06650>     ROUTE CHANNEL    ->    5.0 02:J2            68.26     .154 1996.0731_16:45  118.21  n/a     .000
06651>      [RDT= 5.00] out<-    5.0 01:R2            68.26     .151 1996.0731_17:00  118.21  n/a     .000
06652>       [L/S/n=  359./ .560/.035]
06653>       {Vmax=  .415:Dmax=  .121}
06654> R1996:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06655>     CONTINUOUS NASHYD    5.0 01:A1A           21.43     .035 1996.0731_17:05  115.36 .270     .000
06656>       [CN= 36.1: N= 3.00: Tp= 1.68]
06657>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
06658>       [InterEventTime=  12.00]
06659> R1996:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06660>     CONTINUOUS STANDHYD   5.0 01:Pond1-In      10.00     .211 1996.0731_15:00  139.90 .328     .000
06661>       [XIMP=.38:TIMP=.74]
06662>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  Fe=***]
06663>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP= 500.:MNP=.250:SCP=   .0]
06664>       [Impervious   area: IAimp= 1.57:SLPI=1.50:LGI= 250.:MNI=.013:SCI=   .0]
06665>       [IaRECimp=  12.00: IaRECper=  12.00]
06666> R1996:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06667>     ROUTE RESERVOIR  ->    5.0 02:Pond1-In      10.00     .211 1996.0731_15:00  139.90  n/a     .000
06668>                      out <=    5.0 01:Pond1-Out     10.00     .026 1996.0731_18:20  139.90  n/a     .000
06669>              overflow <=    5.0 03:Pond1-Over     .00      .000 1996.0402_ 0:00     .00  n/a     .000
06670>       {MxStOused=.1325E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=     0, TotDurOvf=    0.hrs}
06671> R1996:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06672>     CONTINUOUS NASHYD    5.0 01:A2             9.14     .060 1996.0731_16:30  118.82 .279     .000
06673>       [CN= 68.4: N= 3.00: Tp= 1.12]
06674>       [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
06675>       [InterEventTime=  12.00]
06676> R1996:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06677>     ADD HYD              5.0 02:R2            68.26     .151 1996.0731_17:00  118.21  n/a     .000
06678>                    +     5.0 02:A1A           21.43     .035 1996.0731_17:05  115.36  n/a     .000
06679>                    +     5.0 02:A2             9.14     .060 1996.0731_16:30  118.81  n/a     .000
06680>                    +     5.0 02:Pond1-Over     .00      .000 1996.0402_ 0:00     .00  n/a     .000
06681>                  SUM=    5.0 02:Pond1-Out     10.00     .026 1996.0731_18:20  139.90  n/a     .000
06682>                  SUM=    5.0 01:J3           108.84     .266 1996.0731_16:50  119.69  n/a     .000
06683> R1996:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06684>     ROUTE CHANNEL    ->    5.0 02:J3           108.84     .266 1996.0731_16:50  119.69  n/a     .000
06685>      [RDT= 5.00] out<-    5.0 01:R3           108.84     .259 1996.0731_17:05  119.69  n/a     .000
06686>       [L/S/n=  396./ .305/.035]
06687>       {Vmax=  .390:Dmax=  .259}
06688> R1996:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06689>     CONTINUOUS NASHYD    5.0 01:SOUTH-1       20.21     .035 1996.0731_16:50  115.27 .270     .000
06690>       [CN= 35.5: N= 3.00: Tp= 1.40]
06691>       [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
06692>       [InterEventTime=  12.00]
06693> R1996:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06694>     ADD HYD              5.0 02:R3           108.84     .259 1996.0731_17:05  119.69  n/a     .000
06695>                    +     5.0 02:SOUTH-1       20.21     .035 1996.0731_16:50  115.27  n/a     .000
06696>                  SUM=    5.0 01:J4           129.05     .293 1996.0731_17:05  118.99  n/a     .000
06697> R1996:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06698>     ROUTE CHANNEL    ->    5.0 02:J4           129.05     .293 1996.0731_17:05  118.99  n/a     .000
06699>      [RDT= 5.00] out<-    5.0 01:R4           129.05     .289 1996.0731_17:20  118.99  n/a     .000
06700>       [L/S/n=  482./ .410/.035]
06701>       {Vmax=  .507:Dmax=  .252}
06702> R1996:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06703>     CONTINUOUS NASHYD    5.0 01:SOUTH-2       11.61     .027 1996.0731_16:25  115.36 .270     .000
06704>       [CN= 36.7: N= 3.00: Tp=  .96]
06705>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
06706>       [InterEventTime=  12.00]
06707> R1996:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06708>     ADD HYD              5.0 02:R4           129.05     .289 1996.0731_17:20  118.99  n/a     .000
06709>                    +     5.0 02:SOUTH-2       11.61     .027 1996.0731_16:25  115.36  n/a     .000
06710>                  SUM=    5.0 01:J5           140.66     .308 1996.0731_17:10  118.69  n/a     .000
06711> R1996:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06712>     ROUTE CHANNEL    ->    5.0 02:J5           140.66     .308 1996.0731_17:10  118.69  n/a     .000
06713>      [RDT= 5.00] out<-    5.0 01:R5           140.66     .307 1996.0731_17:20  118.69  n/a     .000
06714>       [L/S/n=  181./ .500/.035]
06715>       {Vmax=  .485:Dmax=  .239}
06716> R1996:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06717>     CONTINUOUS NASHYD    5.0 01:SOUTH-3        7.98     .025 1996.0731_16:25  115.82 .272     .000
06718>       [CN= 42.6: N= 3.00: Tp=  .89]
06719>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
06720>       [InterEventTime=  12.00]
06721> R1996:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06722>     ADD HYD              5.0 02:R5           140.66     .307 1996.0731_17:20  118.69  n/a     .000
06723>                    +     5.0 02:SOUTH-3        7.98     .025 1996.0731_16:25  115.82  n/a     .000
06724>                  SUM=    5.0 01:J6           148.64     .323 1996.0731_17:15  118.54  n/a     .000
06725> R1996:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06726>     SAVE HYD             5.0 01:J6           148.64     .323 1996.0731_17:15  118.54  n/a     .000
06727>       fname :J6.1996
06728>       remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
06729> R1996:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06730>     ROUTE CHANNEL    ->    5.0 02:J6           148.64     .323 1996.0731_17:15  118.54  n/a     .000
06731>      [RDT= 5.00] out<-    5.0 01:R6           148.64     .320 1996.0731_17:25  118.54  n/a     .000
06732>       [L/S/n=  323./ .440/.035]
06733>       {Vmax=  .529:Dmax=  .257}
06734> R1996:C00035------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06735>     CONTINUOUS NASHYD    5.0 01:SOUTH-4       14.99     .034 1996.0731_16:40  115.53 .271     .000
06736>       [CN= 39.5: N= 3.00: Tp= 1.23]
06737>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
06738>       [InterEventTime=  12.00]
06739> R1996:C00036------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06740>     ADD HYD              5.0 02:R6           148.64     .320 1996.0731_17:25  118.54  n/a     .000
06741>                    +     5.0 02:SOUTH-4       14.99     .034 1996.0731_16:40  115.53  n/a     .000
06742>                  SUM=    5.0 01:Total        163.63     .348 1996.0731_17:20  118.26  n/a     .000
06743> #===============================================================================
06744> #===============================================================================
06745> #*******************************************************************************
06746> # CONTINUOUS RAINFALL DATA
06747> #*******************************************************************************
06748> #*******************************************************************************
06749> # STORMS
06750> #*******************************************************************************
06751>  ** END OF RUN : 1996
06752>
06753> ********************************************************************************************************************
06754>
06755>
06756>
06757>
06758>
06759>  RUN#:COMMAND#
06760> R1997:C00001------------------------------------------------------------------------------------------------------
06761>      START
06762>       [TZERO =    .00 hrs on 19970401]
06763>       [METOUT=  2    (1=imperial, 2=metric output)]
06764>       [NSTORM=  0 ]
06765>       [NRUN  = 1997 ]
06766> #*******************************************************************************
06767> #  SWMHYMO  / INPUT DATA FILE
06768> #*******************************************************************************
06769> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
06770> #  Date        : 04-28-2021
06771> #  Modeller    : [J.B]
06772> #  Company     : JFSAinc.
06773> #  License #   :  2549237
06774> #*******************************************************************************
06775> #*******************************************************************************
06776> #*******************************************************************************
06777> # Ottawa International Airport - April 1st to October 31st
06778> R1997:C00002------------------------------------------------------------------------------------------------------
06779>  *  READ AES DATA
06780>       [Filename  = YOW_1967_2007.123                                          ]
06781>       [Start_date= 1997.0401: End_date= 1997.1031]
06782>       {DT= 60.min: Length= 5136.hrs: WetHrs=  300: DryHrs= 4836: PTOT= 332.10}
06783>       Maximum average rainfall intensities over
06784>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
06785>        12.50     7.60     5.07     3.15     1.78      .99      .69      .52      .49    mm/hr
06786>        12.50    15.20    17.00    18.90    21.40    23.80    25.00    25.00    35.60    mm
06787>       19970622 19970622 19970622 19970503 19970503 19970822 19970822 19970822 19970506  date
06788>       Number of rainfall events per following intervent time
06789>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
06790>           92       76       68       54       50       45       39       35       22
06791>       Number of events with at least the following durations
06792>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
06793>           91       54       35       15        4        0        0        0        0
06794> R1997:C00003------------------------------------------------------------------------------------------------------
06795>      COMPUTE API
06796>       [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
06797>       {APImax= 50.00: APIavg= 16.84: APImin=    .38}
06798> R1997:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06799>     CONTINUOUS NASHYD    5.0 01:NORTH-1       34.70     .011 1997.0503_17:50   95.16 .287     .000
06800>       [CN= 38.1: N= 3.00: Tp= 4.12]
06801>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
06802>       [InterEventTime=  12.00]
06803> R1997:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06804>     CONTINUOUS NASHYD    5.0 01:NORTH-2       12.44     .012 1997.0503_15:20   95.69 .288     .000
06805>       [CN= 53.0: N= 3.00: Tp= 1.29]
06806>       [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
06807>       [InterEventTime=  12.00]
06808> R1997:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06809>     CONTINUOUS NASHYD    5.0 01:HWY-1          2.36     .007 1997.0622_ 4:55   98.46 .296     .000
06810>       [CN= 81.7: N= 3.00: Tp= 1.21]
06811>       [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
06812>       [InterEventTime=  12.00]
06813> R1997:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06814>     ADD HYD              5.0 02:NORTH-1       34.70     .011 1997.0503_17:50   95.16  n/a     .000
06815>                    +     5.0 02:NORTH-2       12.44     .012 1997.0503_15:20   95.69  n/a     .000
06816>                    +     5.0 02:HWY-1          2.36     .007 1997.0622_ 4:55   98.46  n/a     .000
06817>                  SUM=    5.0 01:J1            49.51     .027 1997.0503_15:30   95.45  n/a     .000
06818> R1997:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06819>     ROUTE CHANNEL    ->    5.0 02:J1            49.51     .027 1997.0503_15:30   95.45  n/a     .000
06820>  *   [RDT= 5.00] out<-    5.0 01:R1            49.51     .026 1997.0503_15:50   95.45  n/a     .000
06821>       [L/S/n=  478./ .440/.035]
06822>       {Vmax=  .260:Dmax=  .097}
06823> R1997:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06824>     CONTINUOUS NASHYD    5.0 01:INT-1          4.39     .005 1997.0503_15:35   96.09 .289     .000
06825>       [CN= 60.4: N= 3.00: Tp= 1.66]
06826>       [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
06827>       [InterEventTime=  12.00]
06828> R1997:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06829>     CONTINUOUS NASHYD    5.0 01:INT-2          3.61     .003 1997.0622_ 4:40   95.45 .287     .000
06830>       [CN= 47.4: N= 3.00: Tp=  .95]
06831>       [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
06832>       [InterEventTime=  12.00]
06833> R1997:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06834>     CONTINUOUS NASHYD    5.0 01:A3A            3.84     .004 1997.0503_15:30   95.97 .289     .000
06835>       [CN= 58.4: N= 3.00: Tp= 1.46]
06836>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
06837>       [InterEventTime=  12.00]
06838> R1997:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06839>  *  CONTINUOUS STANDHYD   5.0 01:Pond3-In       1.21     .027 1997.0622_ 3:30  167.29 .504     .000
06840>       [XIMP=.64:TIMP=.75]
```

```
06841>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  Fe=***]
06842>       [Pervious     area: IAper= 4.67:SLPP=2.50:LGP= 100.:MNP=.250:SCP=   .0]
06843>       [Impervious   area: IAimp= 1.57:SLPI=2.50:LGI=  50.:MNI=.013:SCI=   .0]
06844>       [IaRECimp=  12.00: IaRECper=  12.00]
06845> R1997:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06846>     ROUTE RESERVOIR ->     5.0 02:Pond3-In       1.21      .027 1997.0622_ 3:30  167.29  n/a     .000
06847>           out <=     5.0 01:Pond3-Out      1.21      .003 1997.0622_ 4:10  167.28  n/a     .000
06848>         overflow <=    5.0 03:Pond3-Over      .00      .000 1997.0401_ 0:00     .00  n/a     .000
06849>      {MxStoUsed=.1968E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
06850> R1997:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06851>     ADD HYD               5.0 02:Pond3-Over      .00      .000 1997.0401_ 0:00     .00  n/a     .000
06852>                   +       5.0 02:Pond3-Out      1.21      .003 1997.0622_ 4:10  167.28  n/a     .000
06853>                   SUM=    5.0 01:Pond3-Ditc     1.21      .003 1997.0622_ 4:10  167.28  n/a     .000
06854> R1997:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06855>     ROUTE CHANNEL   ->     5.0 02:Pond3-Out      1.21      .003 1997.0622_ 4:10  167.28  n/a     .000
06856>      [RDT= 5.00] out<-     5.0 01:A3C-R          1.21      .003 1997.0503_17:05  167.28  n/a     .000
06857>        [L/S/n=   500./ .140/.035]
06858>        {Vmax=  .074:Dmax=  .038}
06859> R1997:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06860>     CONTINUOUS NASHYD     5.0 01:INT-3          5.71      .008 1997.0622_ 4:40   95.97  .289     .000
06861>       [CN= 58.5: N= 3.00: Tp=  .89]
06862>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
06863>       [InterEventTime=  12.00]
06864> R1997:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06865>     ADD HYD               5.0 02:R1             49.51      .026 1997.0503_15:50   95.45  n/a     .000
06866>                   +       5.0 02:INT-1          4.39      .005 1997.0503_15:35   96.09  n/a     .000
06867>                   +       5.0 02:INT-2          3.61      .003 1997.0622_ 4:40   95.45  n/a     .000
06868>                   +       5.0 02:INT-3          5.71      .008 1997.0622_ 4:40   95.97  n/a     .000
06869>                   +       5.0 02:A3A            3.84      .004 1997.0503_15:30   95.97  n/a     .000
06870>                   +       5.0 02:A3C-R          1.21      .003 1997.0503_17:05  167.28  n/a     .000
06871>                   SUM=    5.0 01:J2            68.26      .046 1997.0503_15:30   96.82  n/a     .000
06872> R1997:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06873>     ROUTE CHANNEL   ->     5.0 02:J2            68.26      .046 1997.0503_15:30   96.82  n/a     .000
06874>      [RDT= 5.00] out<-     5.0 01:R2            68.26      .045 1997.0503_15:40   96.82  n/a     .000
06875>        [L/S/n=  359./ .560/.035]
06876>        {Vmax=  .260:Dmax=  .068}
06877> R1997:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06878>     CONTINUOUS NASHYD     5.0 01:A1A           21.43      .010 1997.0503_15:40   95.08  .286     .000
06879>       [CN= 36.1: N= 3.00: Tp= 1.68]
06880>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
06881>       [InterEventTime=  12.00]
06882> R1997:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06883>     CONTINUOUS STANDHYD   5.0 01:Pond1-In      10.00      .135 1997.0622_ 4:00  101.73  .306     .000
06884>       [XIMP=.38:TIMP=.74]
06885>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  Fe=***]
06886>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP= 500.:MNP=.250:SCP=   .0]
06887>       [Impervious   area: IAimp= 1.57:SLPI=1.50:LGI= 250.:MNI=.013:SCI=   .0]
06888>       [IaRECimp=  12.00: IaRECper=  12.00]
06889> R1997:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06890>     ROUTE RESERVOIR ->     5.0 02:Pond1-In      10.00      .135 1997.0622_ 4:00  101.73  n/a     .000
06891>           out <=     5.0 01:Pond1-Out     10.00      .021 1997.0622_ 4:25  101.73  n/a     .000
06892>         overflow <=    5.0 03:Pond1-Over      .00      .000 1997.0401_ 0:00     .00  n/a     .000
06893>      {MxStoUsed=.4745E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
06894> R1997:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06895>     CONTINUOUS NASHYD     5.0 01:A2            9.14      .016 1997.0622_ 4:50   96.66  .291     .000
06896>       [CN= 68.4: N= 3.00: Tp= 1.12]
06897>       [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
06898>       [InterEventTime=  12.00]
06899> R1997:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06900>     ADD HYD               5.0 02:R2             68.26      .045 1997.0503_15:40   96.82  n/a     .000
06901>                   +       5.0 02:A1A           21.43      .010 1997.0503_15:40   95.08  n/a     .000
06902>                   +       5.0 02:A2             9.14      .016 1997.0622_ 4:50   96.66  n/a     .000
06903>                   +       5.0 02:Pond1-Over      .00      .000 1997.0401_ 0:00     .00  n/a     .000
06904>                   +       5.0 02:Pond1-Out     10.00      .021 1997.0622_ 4:25  101.73  n/a     .000
06905>                   SUM=    5.0 01:J3           108.84      .089 1997.0503_15:30   96.91  n/a     .000
06906> R1997:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06907>     ROUTE CHANNEL   ->     5.0 02:J3           108.84      .089 1997.0503_15:30   96.91  n/a     .000
06908>      [RDT= 5.00] out<-     5.0 01:R3           108.84      .087 1997.0503_15:50   96.91  n/a     .000
06909>        [L/S/n=  396./ .305/.035]
06910>        {Vmax=  .308:Dmax=  .163}
06911> R1997:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06912>     CONTINUOUS NASHYD     5.0 01:SOUTH-1       20.21      .010 1997.0503_15:25   95.05  .286     .000
06913>       [CN= 35.5: N= 3.00: Tp= 1.40]
06914>       [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
06915>       [InterEventTime=  12.00]
06916> R1997:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06917>     ADD HYD               5.0 02:R3           108.84      .087 1997.0503_15:50   96.91  n/a     .000
06918>                   +       5.0 02:SOUTH-1       20.21      .010 1997.0503_15:25   95.05  n/a     .000
06919>                   SUM=    5.0 01:J4           129.05      .097 1997.0503_15:45   96.62  n/a     .000
06920> R1997:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06921>     ROUTE CHANNEL   ->     5.0 02:J4           129.05      .097 1997.0503_15:45   96.62  n/a     .000
06922>      [RDT= 5.00] out<-     5.0 01:R4           129.05      .096 1997.0503_16:00   96.62  n/a     .000
06923>        [L/S/n=  482./ .410/.035]
06924>        {Vmax=  .369:Dmax=  .161}
06925> R1997:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06926>     CONTINUOUS NASHYD     5.0 01:SOUTH-2       11.61      .007 1997.0622_ 4:45   95.08  .286     .000
06927>       [CN= 36.7: N= 3.00: Tp=  .96]
06928>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
06929>       [InterEventTime=  12.00]
06930> R1997:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06931>     ADD HYD               5.0 02:R4           129.05      .096 1997.0503_16:00   96.62  n/a     .000
06932>                   +       5.0 02:SOUTH-2       11.61      .007 1997.0622_ 4:45   95.08  n/a     .000
06933>                   SUM=    5.0 01:J5           140.66      .101 1997.0503_15:55   96.49  n/a     .000
06934> R1997:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06935>     ROUTE CHANNEL   ->     5.0 02:J5           140.66      .101 1997.0503_15:55   96.49  n/a     .000
06936>      [RDT= 5.00] out<-     5.0 01:R5           140.66      .100 1997.0503_16:00   96.49  n/a     .000
06937>        [L/S/n=  181./ .500/.035]
06938>        {Vmax=  .334:Dmax=  .147}
06939> R1997:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06940>     CONTINUOUS NASHYD     5.0 01:SOUTH-3        7.98      .007 1997.0622_ 4:40   95.27  .287     .000
06941>       [CN= 42.6: N= 3.00: Tp=  .89]
06942>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
06943>       [InterEventTime=  12.00]
06944> R1997:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06945>     ADD HYD               5.0 02:R5           140.66      .100 1997.0503_16:00   96.49  n/a     .000
06946>                   +       5.0 02:SOUTH-3        7.98      .007 1997.0622_ 4:40   95.27  n/a     .000
06947>                   SUM=    5.0 01:J6           148.64      .105 1997.0503_16:00   96.43  n/a     .000
06948> R1997:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06949>     SAVE HYD              5.0 01:J6           148.64      .105 1997.0503_16:00   96.43  n/a     .000
06950>       fname :J6.1997
06951>       remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
06952> R1997:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06953>     ROUTE CHANNEL   ->     5.0 02:J6           148.64      .105 1997.0503_16:00   96.43  n/a     .000
06954>      [RDT= 5.00] out<-     5.0 01:R6           148.64      .104 1997.0503_16:05   96.43  n/a     .000
06955>        [L/S/n=  323./ .440/.035]
06956>        {Vmax=  .390:Dmax=  .165}
06957> R1997:C00035------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06958>     CONTINUOUS NASHYD     5.0 01:SOUTH-4       14.99      .009 1997.0503_15:20   95.16  .287     .000
06959>       [CN= 39.5: N= 3.00: Tp= 1.23]
06960>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
06961>       [InterEventTime=  12.00]
06962> R1997:C00036------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
06963>     ADD HYD               5.0 02:R6           148.64      .104 1997.0503_16:05   96.43  n/a     .000
06964>                   +       5.0 02:SOUTH-4       14.99      .009 1997.0503_15:20   95.16  n/a     .000
06965>                   SUM=    5.0 01:Total        163.63      .112 1997.0503_16:05   96.31  n/a     .000
06966> ##########################################################################
06967> ##########################################################################
06968> ##########################################################################
06969> # CONTINUOUS RAINFALL DATA
06970> ##########################################################################
06971> ##########################################################################
06972> # STORMS
06973> #**************************************************************************
06974>  ** END OF RUN : 1997
06975>
06976>  ************************************************************************************************************
06977>
06978>
06979>
06980>
06981>
06982>  RUN#:COMMAND#
06983> R1998:C00001------------------------------------------------------------------------------------------------
06984>     START                 [TZERO =    .00 hrs on 19980401]
06985>       [METOUT=   2   (1=imperial, 2=metric output)]
06986>       [NSTORM=   0 ]
06987>       [NRUN  = 1998 ]
06988> #**************************************************************************
06989> #  SWMHYMO  - INPUT DATA FILE
06990> #**************************************************************************
06991> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
06992> #  Date        : 04-28-2021
06993> #  Modeller    : [J.B]
06994> #  Company     : JFSAinc.
06995> #  License #   : 2549237
06996> #**************************************************************************
06997> #**************************************************************************
06998> #**************************************************************************
06999> #**************************************************************************
07000> # Ottawa International Airport - April 1st to October 31st
07001> R1998:C00002------------------------------------------------------------------------------------------------
07002>  *  READ AES DATA
07003>       [filename  = YOW_1967_2007.123                                    ]
07004>       [Start_date= 1998.0401: End_date= 1998.1031]
07005>       {DT= 60.min: Length= 5064.hrs: WetHrs=  291: DryHrs= 4773: PTOT= 440.30}
07006>       Maximum average rainfall intensities over
07007>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
07008>         15.80    8.90     7.60     4.00     2.54     1.82     1.27      .95      .76    mm/hr
07009>         15.80   17.80    22.80    24.00    30.50    43.60    45.80    45.80    54.60    mm
07010>       19980716 19980627 19980927 19980927 19980927 19980927 19980927 19980928 19980928 19980615  date
07011>       Number of rainfall events per following interevent time
07012>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
07013>          126      104       95       78       63       42       37       32       21
07014>       Number of events with at least the following durations
07015>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
07016>          125       64       43        8        1        0        0        0        0
07017> R1998:C00003------------------------------------------------------------------------------------------------
07018>       COMPUTE API
07019>       [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
07020>       {APImax= 57.22: APIavg= 21.30: APImin=  1.69}

07021> R1998:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07022>     CONTINUOUS NASHYD     5.0 01:NORTH-1       34.70      .023 1998.0927_17:55  130.19  .296     .000
07023>       [CN= 38.1: N= 3.00: Tp= 4.12]
07024>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
07025>       [InterEventTime=  12.00]
07026> R1998:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07027>     CONTINUOUS NASHYD     5.0 01:NORTH-2       12.44      .031 1998.0927_15:15  131.29  .298     .000
07028>       [CN= 53.0: N= 3.00: Tp= 1.29]
07029>       [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
07030>       [InterEventTime=  12.00]
07031> R1998:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07032>     CONTINUOUS NASHYD     5.0 01:HWY-1          2.36      .015 1998.0927_15:10  136.32  .310     .000
07033>       [CN= 81.7: N= 3.00: Tp= 1.21]
07034>       [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
07035>       [InterEventTime=  12.00]
07036> R1998:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07037>     ADD HYD               5.0 02:NORTH-1       34.70      .023 1998.0927_17:55  130.19  n/a     .000
07038>                   +       5.0 02:NORTH-2       12.44      .031 1998.0927_15:15  131.29  n/a     .000
07039>                   +       5.0 02:HWY-1          2.36      .015 1998.0927_15:10  136.32  n/a     .000
07040>                   SUM=    5.0 01:J1            49.51      .060 1998.0927_15:20  130.76  n/a     .000
07041> R1998:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07042>     ROUTE CHANNEL   ->     5.0 02:J1            49.51      .060 1998.0927_15:20  130.76  n/a     .000
07043>  *   [RDT= 5.00] out<-     5.0 01:R1            49.51      .058 1998.0927_15:45  130.76  n/a     .000
07044>        [L/S/n=  478./ .440/.035]
07045>        {Vmax=  .335:Dmax=  .134}
07046> R1998:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07047>     CONTINUOUS NASHYD     5.0 01:INT-1          4.39      .011 1998.0927_15:40  132.08  .300     .000
07048>       [CN= 60.4: N= 3.00: Tp= 1.66]
07049>       [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
07050>       [InterEventTime=  12.00]
07051> R1998:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07052>     CONTINUOUS NASHYD     5.0 01:INT-2          3.61      .009 1998.0927_14:50  130.80  .297     .000
07053>       [CN= 47.4: N= 3.00: Tp=  .95]
07054>       [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
07055>       [InterEventTime=  12.00]
07056> R1998:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07057>     CONTINUOUS NASHYD     5.0 01:A3A            3.84      .010 1998.0927_15:25  131.84  .299     .000
07058>       [CN= 58.4: N= 3.00: Tp= 1.46]
07059>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
07060>       [InterEventTime=  12.00]
07061> R1998:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07062>  *  CONTINUOUS STANDHYD   5.0 01:Pond3-In       1.21      .034 1998.0627_ 1:00  218.65  .497     .000
07063>       [XIMP=.64:TIMP=.75]
07064>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  Fe=***]
07065>       [Pervious     area: IAper= 4.67:SLPP=2.50:LGP= 100.:MNP=.250:SCP=   .0]
07066>       [Impervious   area: IAimp= 1.57:SLPI=2.50:LGI=  50.:MNI=.013:SCI=   .0]
07067>       [IaRECimp=  12.00: IaRECper=  12.00]
07068> R1998:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07069>     ROUTE RESERVOIR ->     5.0 02:Pond3-In       1.21      .034 1998.0627_ 1:00  218.65  n/a     .000
07070>           out <=     5.0 01:Pond3-Out      1.21      .003 1998.0927_ 3:05  218.63  n/a     .000
07071>         overflow <=    5.0 03:Pond3-Over      .00      .000 1998.0404_ 0:00     .00  n/a     .000
07072>      {MxStoUsed=.2061E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
07073> R1998:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07074>     ADD HYD               5.0 02:Pond3-Over      .00      .000 1998.0404_ 0:00     .00  n/a     .000
07075>                   +       5.0 02:Pond3-Out      1.21      .003 1998.0927_ 3:05  218.63  n/a     .000
07076>                   SUM=    5.0 01:Pond3-Ditc     1.21      .003 1998.0927_ 3:05  218.63  n/a     .000
07077> R1998:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07078>     ROUTE CHANNEL   ->     5.0 02:Pond3-Out      1.21      .003 1998.0927_ 3:05  218.63  n/a     .000
07079>      [RDT= 5.00] out<-     5.0 01:A3C-R          1.21      .003 1998.0613_11:35  218.63  n/a     .000
07080>        [L/S/n=  500./ .140/.035]
07081>        {Vmax=  .075:Dmax=  .038}
07082> R1998:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07083>     CONTINUOUS NASHYD     5.0 01:INT-3          5.71      .022 1998.0927_14:45  131.84  .299     .000
07084>       [CN= 58.5: N= 3.00: Tp=  .89]
07085>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
07086>       [InterEventTime=  12.00]
07087> R1998:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07088>     ADD HYD               5.0 02:R1            49.51      .058 1998.0927_15:45  130.76  n/a     .000
07089>                   +       5.0 02:INT-1          4.39      .011 1998.0927_15:40  132.08  n/a     .000
07090>                   +       5.0 02:INT-2          3.61      .009 1998.0927_14:50  130.80  n/a     .000
07091>                   +       5.0 02:INT-3          5.71      .022 1998.0927_14:45  131.84  n/a     .000
07092>                   +       5.0 02:A3A            3.84      .010 1998.0927_15:25  131.84  n/a     .000
07093>                   +       5.0 02:A3C-R          1.21      .003 1998.0613_11:35  218.63  n/a     .000
07094>                   SUM=    5.0 01:J2            68.26      .106 1998.0927_15:20  132.54  n/a     .000
07095> R1998:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07096>     ROUTE CHANNEL   ->     5.0 02:J2            68.26      .106 1998.0927_15:20  132.54  n/a     .000
07097>  *   [RDT= 5.00] out<-     5.0 01:R2            68.26      .104 1998.0927_15:35  132.54  n/a     .000
07098>        [L/S/n=  359./ .560/.035]
07099>        {Vmax=  .356:Dmax=  .101}
07100> R1998:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07101>     CONTINUOUS NASHYD     5.0 01:A1A           21.43      .024 1998.0927_15:40  130.04  .295     .000
07102>       [CN= 36.1: N= 3.00: Tp= 1.68]
07103>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
07104>       [InterEventTime=  12.00]
07105> R1998:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07106>     CONTINUOUS STANDHYD   5.0 01:Pond1-In      10.00      .176 1998.0627_ 1:00  138.88  .315     .000
07107>       [XIMP=.38:TIMP=.74]
07108>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  Fe=***]
07109>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP= 500.:MNP=.250:SCP=   .0]
07110>       [Impervious   area: IAimp= 1.57:SLPI=1.50:LGI= 250.:MNI=.013:SCI=   .0]
07111>       [IaRECimp=  12.00: IaRECper=  12.00]
07112> R1998:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07113>     ROUTE RESERVOIR ->     5.0 02:Pond1-In      10.00      .176 1998.0627_ 1:00  138.88  n/a     .000
07114>           out <=     5.0 01:Pond1-Out     10.00      .023 1998.0927_ 3:25  138.88  n/a     .000
07115>         overflow <=    5.0 03:Pond1-Over      .00      .000 1998.0404_ 0:00     .00  n/a     .000
07116>      {MxStoUsed=.7695E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
07117> R1998:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07118>     CONTINUOUS NASHYD     5.0 01:A2            9.14      .040 1998.0927_15:05  133.17  .302     .000
07119>       [CN= 68.4: N= 3.00: Tp= 1.12]
07120>       [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
07121>       [InterEventTime=  12.00]
07122> R1998:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07123>     ADD HYD               5.0 02:R2            68.26      .104 1998.0927_15:35  132.54  n/a     .000
07124>                   +       5.0 02:A1A           21.43      .024 1998.0927_15:40  130.04  n/a     .000
07125>                   +       5.0 02:A2             9.14      .040 1998.0927_15:05  133.17  n/a     .000
07126>                   +       5.0 02:Pond1-Over      .00      .000 1998.0404_ 0:00     .00  n/a     .000
07127>                   +       5.0 02:Pond1-Out     10.00      .023 1998.0927_ 3:25  138.88  n/a     .000
07128>                   SUM=    5.0 01:J3           108.84      .185 1998.0927_15:25  132.67  n/a     .000
07129> R1998:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07130>     ROUTE CHANNEL   ->     5.0 02:J3           108.84      .185 1998.0927_15:25  132.67  n/a     .000
07131>  *   [RDT= 5.00] out<-     5.0 01:R3           108.84      .180 1998.0927_15:45  132.67  n/a     .000
07132>        [L/S/n=  396./ .305/.035]
07133>        {Vmax=  .368:Dmax=  .222}
07134> R1998:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07135>     CONTINUOUS NASHYD     5.0 01:SOUTH-1       20.21      .025 1998.0927_15:25  129.96  .295     .000
07136>       [CN= 35.5: N= 3.00: Tp= 1.40]
07137>       [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
07138>       [InterEventTime=  12.00]
07139> R1998:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07140>     ADD HYD               5.0 02:R3           108.84      .180 1998.0927_15:45  132.67  n/a     .000
07141>                   +       5.0 02:SOUTH-1       20.21      .025 1998.0927_15:25  129.96  n/a     .000
07142>                   SUM=    5.0 01:J4           129.05      .205 1998.0927_15:40  132.25  n/a     .000
07143> R1998:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07144>     ROUTE CHANNEL   ->     5.0 02:J4           129.05      .205 1998.0927_15:40  132.25  n/a     .000
07145>  *   [RDT= 5.00] out<-     5.0 01:R4           129.05      .200 1998.0927_15:55  132.25  n/a     .000
07146>        [L/S/n=  482./ .410/.035]
07147>        {Vmax=  .445:Dmax=  .214}
07148> R1998:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07149>     CONTINUOUS NASHYD     5.0 01:SOUTH-2       11.61      .020 1998.0927_14:50  130.04  .295     .000
07150>       [CN= 36.7: N= 3.00: Tp=  .96]
07151>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
07152>       [InterEventTime=  12.00]
07153> R1998:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07154>     ADD HYD               5.0 02:R4           129.05      .200 1998.0927_15:55  132.25  n/a     .000
07155>                   +       5.0 02:SOUTH-2       11.61      .020 1998.0927_14:50  130.04  n/a     .000
07156>                   SUM=    5.0 01:J5           140.66      .213 1998.0927_15:50  132.07  n/a     .000
07157> R1998:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07158>     ROUTE CHANNEL   ->     5.0 02:J5           140.66      .213 1998.0927_15:50  132.07  n/a     .000
07159>  *   [RDT= 5.00] out<-     5.0 01:R5           140.66      .212 1998.0927_15:55  132.07  n/a     .000
07160>        [L/S/n=  181./ .500/.035]
07161>        {Vmax=  .424:Dmax=  .206}
07162> R1998:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07163>     CONTINUOUS NASHYD     5.0 01:SOUTH-3        7.98      .018 1998.0927_14:45  130.44  .296     .000
07164>       [CN= 42.6: N= 3.00: Tp=  .89]
07165>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
07166>       [InterEventTime=  12.00]
07167> R1998:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07168>     ADD HYD               5.0 02:R5           140.66      .212 1998.0927_15:55  132.07  n/a     .000
07169>                   +       5.0 02:SOUTH-3        7.98      .018 1998.0927_14:45  130.44  n/a     .000
07170>                   SUM=    5.0 01:J6           148.64      .223 1998.0927_15:50  131.98  n/a     .000
07171> R1998:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07172>     SAVE HYD              5.0 01:J6           148.64      .223 1998.0927_15:50  131.98  n/a     .000
07173>       fname :J6.1998
07174>       remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
07175> R1998:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07176>     ROUTE CHANNEL   ->     5.0 02:J6           148.64      .223 1998.0927_15:50  131.98  n/a     .000
07177>  *   [RDT= 5.00] out<-     5.0 01:R6           148.64      .221 1998.0927_16:00  131.98  n/a     .000
07178>        [L/S/n=  323./ .440/.035]
07179>        {Vmax=  .469:Dmax=  .218}
07180> R1998:C00035------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07181>     CONTINUOUS NASHYD     5.0 01:SOUTH-4       14.99      .024 1998.0927_15:10  130.19  .296     .000
07182>       [CN= 39.5: N= 3.00: Tp= 1.23]
07183>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
07184>       [InterEventTime=  12.00]
07185> R1998:C00036------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07186>     ADD HYD               5.0 02:R6           148.64      .221 1998.0927_16:00  131.98  n/a     .000
07187>                   +       5.0 02:SOUTH-4       14.99      .024 1998.0927_15:10  130.19  n/a     .000
07188>                   SUM=    5.0 01:Total        163.63      .240 1998.0927_15:55  131.82  n/a     .000
07189> ##########################################################################
07190> ##########################################################################
07191> ##########################################################################
07192> # CONTINUOUS RAINFALL DATA
07193> ##########################################################################
07194> #**************************************************************************
07195> # STORMS
07196> #**************************************************************************
07197>  ** END OF RUN : 1998
07198>
07199>  ************************************************************************************************************
07200>
```

```
07201>
07202>
07203>
07204>
07205>  RUN#:COMMAND#
07206> R1999:C00001-------------------------------------------------------------------------------------------------------------
07207>      START
07208>       [TZERO =    .00 hrs on 19990401]
07209>       [METOUT=   2   (1=imperial, 2=metric output)]
07210>       [NSTORM=   0 ]
07211>       [NRUN  = 1999 ]
07212> #*******************************************************************************
07213> #  SWMHYMO  / INPUT DATA FILE
07214> #*******************************************************************************
07215> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
07216> #  Date        : 04-28-2021
07217> #  Modeller    : [J.B]
07218> #  Company     : JFSAinc.
07219> #  License #   :  2549237
07220> #*******************************************************************************
07221> #*******************************************************************************
07222> #*******************************************************************************
07223> # Ottawa International Airport - April 1st to October 31st
07224> R1999:C00002-------------------------------------------------------------------------------------------------------------
07225>   *  READ AES DATA
07226>       [Filename  = YOW_1967_2007.123                                          ]
07227>       [Start_date= 1999.0401: End_date= 1999.1031]
07228>       [DT= 60.min: Length= 4416.hrs: WetHrs=  247: DryHrs= 4169: PTOT= 424.40}
07229>       Maximum average rainfall intensities over
07230>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
07231>        17.50    10.10     9.03     6.57     3.31     1.65     1.45     1.22      .97     mm/hr
07232>        17.50    20.20    27.10    39.40    39.70    39.70    52.20    58.60    69.50    mm
07233>       19990717 19990717 19990906 19990906 19990906 19990906 19990906 19990907 19990908 19990908  date
07234>       Number of rainfall events per following interevent time
07235>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
07236>          102       60       70       63       56       38       30       28       18
07237>       Number of events with at least the following durations
07238>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
07239>          101        1       57       31        0        1        0        0        0        0
07240> R1999:C00003-------------------------------------------------------------------------------------------------------------
07241>      COMPUTE API
07242>       [APIini= 50.00: APIkdy=  .9000: APIkdt= .9956]
07243>       {APImax= 69.51: APIavg= 24.05: APImin=  1.93}
07244> R1999:C00004-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07245>      CONTINUOUS NASHYD     5.0 01:NORTH-1       34.70     .036 1999.0906_13:00  156.36 .368     .000
07246>       [CN= 38.1: N= 3.00: Tp= 4.12]
07247>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
07248>       [InterEventTime=  12.00]
07249> R1999:C00005-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07250>      CONTINUOUS NASHYD     5.0 01:NORTH-2       12.44     .040 1999.0906_10:25  156.81 .369     .000
07251>       [CN= 53.0: N= 3.00: Tp= 1.29]
07252>       [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
07253>       [InterEventTime=  12.00]
07254> R1999:C00006-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07255>      CONTINUOUS NASHYD     5.0 01:HWY-1         2.36     .020 1999.0906_10:15  159.00 .375     .000
07256>       [CN= 81.7: N= 3.00: Tp= 1.21]
07257>       [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
07258>       [InterEventTime=  12.00]
07259> R1999:C00007-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07260>      ADD HYD               5.0 02:NORTH-1       34.70     .036 1999.0906_13:00  156.36  n/a     .000
07261>                         +     5.0 02:NORTH-2       12.44     .040 1999.0906_10:25  156.81  n/a     .000
07262>                         +     5.0 02:HWY-1         2.36     .020 1999.0906_10:15  159.00  n/a     .000
07263>                       SUM=    5.0 01:J1           49.51     .085 1999.0906_10:40  156.60  n/a     .000
07264> R1999:C00008-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07265>      ROUTE CHANNEL   ->    5.0 02:J1           49.51     .085 1999.0906_10:40  156.60  n/a     .000
07266>  *   [RDT= 5.00] out<-     5.0 01:R1           49.51     .084 1999.0906_10:55  156.60  n/a     .000
07267>       [L/S/n=  478./ .440/.035]
07268>       {Vmax=  .375:Dmax=  .155}
07269> R1999:C00009-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07270>      CONTINUOUS NASHYD     5.0 01:INT-1         4.39     .017 1999.0906_10:45  157.14 .370     .000
07271>       [CN= 60.4: N= 3.00: Tp= 1.66]
07272>       [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
07273>       [InterEventTime=  12.00]
07274> R1999:C00010-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07275>      CONTINUOUS NASHYD     5.0 01:INT-2         3.61     .010 1999.0906_10:15  156.61 .369     .000
07276>       [CN= 47.4: N= 3.00: Tp= .95]
07277>       [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
07278>       [InterEventTime=  12.00]
07279> R1999:C00011-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07280>      CONTINUOUS NASHYD     5.0 01:A3A           3.84     .014 1999.0906_10:35  157.04 .370     .000
07281>       [CN= 58.4: N= 3.00: Tp= 1.46]
07282>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
07283>       [InterEventTime=  12.00]
07284> R1999:C00012-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07285>  *  CONTINUOUS STANDHYD   5.0 01:Pond3-In       1.21     .038 1999.0717_15:00  217.59 .513     .000
07286>       [XIMP=.64:TIMP=.75]
07287>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  Fe=****]
07288>       [Pervious     area: IAper= 4.67:SLPP=2.50:LGP= 100.:MNP=.250:SCP=   .0]
07289>       [Impervious   area: IAimp= 1.57:SLPI=2.50:LGI=  50.:MNI=.013:SCI=   .0]
07290>       [IaRECimp=  12.00: IaRECper=  12.00]
07291> R1999:C00013-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07292>      ROUTE RESERVOIR ->    5.0 02:Pond3-In      1.21     .038 1999.0717_15:00  217.59  n/a     .000
07293>                      out <=    5.0 01:Pond3-Out     1.21     .003 1999.0906_10:45  217.57  n/a     .000
07294>                overflow <=    5.0 03:Pond3-Over      .00     .000 1999.0501_ 0:00    .00  n/a     .000
07295>       {MxStoUsed=.2606E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
07296> R1999:C00014-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07297>      ADD HYD               5.0 02:Pond3-Over      .00     .000 1999.0501_ 0:00    .00  n/a     .000
07298>                         +     5.0 02:Pond3-Out     1.21     .003 1999.0906_10:45  217.57  n/a     .000
07299>                       SUM=    5.0 01:Pond3-Ditc    1.21     .003 1999.0906_10:45  217.57  n/a     .000
07300> R1999:C00015-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07301>      ROUTE CHANNEL   ->    5.0 02:Pond3-Out     1.21     .003 1999.0906_10:45  217.57  n/a     .000
07302>       [RDT= 5.00] out<-     5.0 01:A3C-R         1.21     .003 1999.0906_17:05  217.57  n/a     .000
07303>       [L/S/n=  500./ .140/.035]
07304>       {Vmax=  .075:Dmax=  .038}
07305> R1999:C00016-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07306>      CONTINUOUS NASHYD     5.0 01:INT-3         5.71     .024 1999.0906_ 9:40  157.04 .370     .000
07307>       [CN= 58.5: N= 3.00: Tp=  .89]
07308>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
07309>       [InterEventTime=  12.00]
07310> R1999:C00017-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07311>      ADD HYD               5.0 02:R1            49.51     .084 1999.0906_10:55  156.60  n/a     .000
07312>                         +     5.0 02:INT-1         4.39     .017 1999.0906_10:45  157.14  n/a     .000
07313>                         +     5.0 02:INT-2         3.61     .010 1999.0906_10:15  156.61  n/a     .000
07314>                         +     5.0 02:INT-3         5.71     .024 1999.0906_ 9:40  157.04  n/a     .000
07315>                         +     5.0 02:A3A           3.84     .014 1999.0906_10:35  157.04  n/a     .000
07316>                         +     5.0 02:A3C-R         1.21     .003 1999.0906_17:05  217.57  n/a     .000
07317>                       SUM=    5.0 01:J2           68.26     .148 1999.0906_10:35  157.76  n/a     .000
07318> R1999:C00018-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07319>      ROUTE CHANNEL   ->    5.0 02:J2           68.26     .148 1999.0906_10:35  157.76  n/a     .000
07320>       [RDT= 5.00] out<-     5.0 01:R2           68.26     .146 1999.0906_10:45  157.76  n/a     .000
07321>       [L/S/n=  359./ .560/.035]
07322>       {Vmax=  .411:Dmax=  .119}
07323> R1999:C00019-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07324>      CONTINUOUS NASHYD     5.0 01:A1A          21.43     .034 1999.0906_10:45  156.30 .368     .000
07325>       [CN= 36.1: N= 3.00: Tp= 1.68]
07326>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
07327>       [InterEventTime=  12.00]
07328> R1999:C00020-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07329>      CONTINUOUS STANDHYD   5.0 01:Pond1-In      10.00     .198 1999.0717_15:00  145.51 .343     .000
07330>       [XIMP=.38:TIMP=.74]
07331>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  Fe=****]
07332>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP= 500.:MNP=.250:SCP=   .0]
07333>       [Impervious   area: IAimp= 1.57:SLPI=1.50:LGI= 250.:MNI=.013:SCI=   .0]
07334>       [IaRECimp=  12.00: IaRECper=  12.00]
07335> R1999:C00021-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07336>      ROUTE RESERVOIR ->    5.0 02:Pond1-In      10.00     .198 1999.0717_15:00  145.51  n/a     .000
07337>                      out <=    5.0 01:Pond1-Out     10.00     .026 1999.0906_11:05  145.51  n/a     .000
07338>                overflow <=    5.0 03:Pond1-Over      .00     .000 1999.0501_ 0:00    .00  n/a     .000
07339>       {MxStoUsed=.1388E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
07340> R1999:C00022-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07341>      CONTINUOUS NASHYD     5.0 01:A2           9.14     .050 1999.0906_10:15  157.60 .371     .000
07342>       [CN= 68.4: N= 3.00: Tp= 1.12]
07343>       [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
07344>       [InterEventTime=  12.00]
07345> R1999:C00023-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07346>      ADD HYD               5.0 02:R2            68.26     .146 1999.0906_10:45  157.76  n/a     .000
07347>                         +     5.0 02:A1A          21.43     .034 1999.0906_10:45  156.30  n/a     .000
07348>                         +     5.0 02:A2            9.14     .050 1999.0906_10:15  157.60  n/a     .000
07349>                         +     5.0 02:Pond1-Over      .00     .000 1999.0501_ 0:00    .00  n/a     .000
07350>                         +     5.0 02:Pond1-Out     10.00     .026 1999.0906_11:05  145.51  n/a     .000
07351>                       SUM=    5.0 01:J3           108.84     .255 1999.0906_10:35  156.32  n/a     .000
07352> R1999:C00024-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07353>      ROUTE CHANNEL   ->    5.0 02:J3           108.84     .255 1999.0906_10:35  156.32  n/a     .000
07354>       [RDT= 5.00] out<-     5.0 01:R3           108.84     .252 1999.0906_10:50  156.32  n/a     .000
07355>       [L/S/n=  396./ .305/.035]
07356>       {Vmax=  .389:Dmax=  .254}
07357> R1999:C00025-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07358>      CONTINUOUS NASHYD     5.0 01:SOUTH-1       20.21     .033 1999.0906_10:35  156.26 .368     .000
07359>       [CN= 35.5: N= 3.00: Tp= 1.40]
07360>       [IaREC= 6.00: SMIN=284.20: SMAX=******: SK= .030]
07361>       [InterEventTime=  12.00]
07362> R1999:C00026-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07363>      ADD HYD               5.0 02:R3           108.84     .252 1999.0906_10:50  156.32  n/a     .000
07364>                         +     5.0 02:SOUTH-1       20.21     .033 1999.0906_10:35  156.26  n/a     .000
07365>                       SUM=    5.0 01:J4           129.05     .284 1999.0906_10:50  156.31  n/a     .000
07366> R1999:C00027-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07367>      ROUTE CHANNEL   ->    5.0 02:J4           129.05     .284 1999.0906_10:50  156.31  n/a     .000
07368>       [RDT= 5.00] out<-     5.0 01:R4           129.05     .283 1999.0906_10:55  156.31  n/a     .000
07369>       [L/S/n=  482./ .410/.035]
07370>       {Vmax=  .505:Dmax=  .249}
07371> R1999:C00028-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07372>      CONTINUOUS NASHYD     5.0 01:SOUTH-2       11.61     .022 1999.0906_10:15  156.30 .368     .000
07373>       [CN= 36.7: N= 3.00: Tp=  .96]
07374>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
07375>       [InterEventTime=  12.00]
07376> R1999:C00029-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07377>      ADD HYD               5.0 02:R4           129.05     .283 1999.0906_10:55  156.31  n/a     .000
07378>                         +     5.0 02:SOUTH-2       11.61     .022 1999.0906_10:15  156.30  n/a     .000
07379>                       SUM=    5.0 01:J5           140.66     .302 1999.0906_10:50  156.31  n/a     .000
07380> R1999:C00030-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07381>      ROUTE CHANNEL   ->    5.0 02:J5           140.66     .302 1999.0906_10:50  156.31  n/a     .000
07382>       [RDT= 5.00] out<-     5.0 01:R5           140.66     .301 1999.0906_10:55  156.31  n/a     .000
07383>       [L/S/n=  181./ .500/.035]
07384>       {Vmax=  .484:Dmax=  .238}
07385> R1999:C00031-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07386>      CONTINUOUS NASHYD     5.0 01:SOUTH-3        7.98     .019 1999.0906_10:15  156.46 .369     .000
07387>       [CN= 42.6: N= 3.00: Tp=  .89]
07388>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
07389>       [InterEventTime=  12.00]
07390> R1999:C00032-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07391>      ADD HYD               5.0 02:R5           140.66     .301 1999.0906_10:55  156.31  n/a     .000
07392>                         +     5.0 02:SOUTH-3        7.98     .019 1999.0906_10:15  156.46  n/a     .000
07393>                       SUM=    5.0 01:J6           148.64     .317 1999.0906_10:50  156.32  n/a     .000
07394> R1999:C00033-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07395>      SAVE HYD              5.0 01:J6           148.64     .317 1999.0906_10:50  156.32  n/a     .000
07396>       fname :J6.1999
07397>       remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
07398> R1999:C00034-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07399>      ROUTE CHANNEL   ->    5.0 02:J6           148.64     .317 1999.0906_10:50  156.32  n/a     .000
07400>       [RDT= 5.00] out<-     5.0 01:R6           148.64     .316 1999.0906_11:00  156.32  n/a     .000
07401>       [L/S/n=  323./ .440/.035]
07402>       {Vmax=  .528:Dmax=  .255}
07403> R1999:C00035-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07404>      CONTINUOUS NASHYD     5.0 01:SOUTH-4       14.99     .030 1999.0906_10:25  156.36 .368     .000
07405>       [CN= 39.5: N= 3.00: Tp= 1.23]
07406>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
07407>       [InterEventTime=  12.00]
07408> R1999:C00036-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07409>      ADD HYD               5.0 02:R6           148.64     .316 1999.0906_11:00  156.32  n/a     .000
07410>                         +     5.0 02:SOUTH-4       14.99     .030 1999.0906_10:25  156.36  n/a     .000
07411>                       SUM=    5.0 01:Total        163.63     .343 1999.0906_10:55  156.32  n/a     .000
07412> ###############################################################################
07413> ###############################################################################
07414> ###############################################################################
07415> # CONTINUOUS RAINFALL DATA
07416> ###############################################################################
07417> #*******************************************************************************
07418> # STORMS
07419> #*******************************************************************************
07420>  ** END OF RUN : 1999
07421>
07422> ********************************************************************************************************************
07423>
07424>
07425>
07426>
07427>
07428>  RUN#:COMMAND#
07429> R2000:C00001-------------------------------------------------------------------------------------------------------------
07430>      START
07431>       [TZERO =    .00 hrs on 20000401]
07432>       [METOUT=   2   (1=imperial, 2=metric output)]
07433>       [NSTORM=   0 ]
07434>       [NRUN  = 2000 ]
07435> #*******************************************************************************
07436> #  SWMHYMO  / INPUT DATA FILE
07437> #*******************************************************************************
07438> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
07439> #  Date        : 04-28-2021
07440> #  Modeller    : [J.B]
07441> #  Company     : JFSAinc.
07442> #  License #   :  2549237
07443> #*******************************************************************************
07444> #*******************************************************************************
07445> #*******************************************************************************
07446> # Ottawa International Airport - April 1st to October 31st
07447> R2000:C00002-------------------------------------------------------------------------------------------------------------
07448>   *  READ AES DATA
07449>       [Filename  = YOW_1967_2007.123                                          ]
07450>       [Start_date= 2000.0401: End_date= 2000.1031]
07451>       [DT= 60.min: Length= 5136.hrs: WetHrs=  401: DryHrs= 4735: PTOT= 535.90}
07452>       Maximum average rainfall intensities over
07453>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
07454>        14.70     9.60     8.03     6.43     3.89     1.95     1.30     1.03      .84     mm/hr
07455>        14.70    19.20    24.10    38.60    46.70    46.70    46.80    49.30    60.40    mm
07456>       20000625 20000625 20000625 20000625 20000625 20000625 20000625 20000626 20000510 20000511  date
07457>       Number of rainfall events per following interevent time
07458>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
07459>          156      125      110       86       67       46       34       30       23
07460>       Number of events with at least the following durations
07461>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
07462>          155       82       49       16        2        0        0        0        0
07463> R2000:C00003-------------------------------------------------------------------------------------------------------------
07464>      COMPUTE API
07465>       [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
07466>       {APImax= 76.65: APIavg= 25.75: APImin=  6.33}
07467> R2000:C00004-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07468>      CONTINUOUS NASHYD     5.0 01:NORTH-1       34.70     .079 2000.0625_13:20  183.22 .342     .000
07469>       [CN= 38.1: N= 3.00: Tp= 4.12]
07470>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
07471>       [InterEventTime=  12.00]
07472> R2000:C00005-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07473>      CONTINUOUS NASHYD     5.0 01:NORTH-2       12.44     .100 2000.0625_10:50  183.58 .343     .000
07474>       [CN= 53.0: N= 3.00: Tp= 1.29]
07475>       [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
07476>       [InterEventTime=  12.00]
07477> R2000:C00006-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07478>      CONTINUOUS NASHYD     5.0 01:HWY-1         2.36     .041 2000.0625_10:45  185.25 .346     .000
07479>       [CN= 81.7: N= 3.00: Tp= 1.21]
07480>       [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
07481>       [InterEventTime=  12.00]
07482> R2000:C00007-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07483>      ADD HYD               5.0 02:NORTH-1       34.70     .079 2000.0625_13:20  183.22  n/a     .000
07484>                         +     5.0 02:NORTH-2       12.44     .100 2000.0625_10:50  183.58  n/a     .000
07485>                         +     5.0 02:HWY-1         2.36     .041 2000.0625_10:45  185.25  n/a     .000
07486>                       SUM=    5.0 01:J1           49.51     .193 2000.0625_11:00  183.41  n/a     .000
07487> R2000:C00008-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07488>      ROUTE CHANNEL   ->    5.0 02:J1           49.51     .193 2000.0625_11:00  183.41  n/a     .000
07489>  *   [RDT= 5.00] out<-     5.0 01:R1           49.51     .189 2000.0625_11:15  183.41  n/a     .000
07490>       [L/S/n=  478./ .440/.035]
07491>       {Vmax=  .472:Dmax=  .218}
07492> R2000:C00009-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07493>      CONTINUOUS NASHYD     5.0 01:INT-1         4.39     .037 2000.0625_11:10  183.84 .343     .000
07494>       [CN= 60.4: N= 3.00: Tp= 1.66]
07495>       [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
07496>       [InterEventTime=  12.00]
07497> R2000:C00010-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07498>      CONTINUOUS NASHYD     5.0 01:INT-2         3.61     .030 2000.0625_10:35  183.42 .342     .000
07499>       [CN= 47.4: N= 3.00: Tp=  .95]
07500>       [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
07501>       [InterEventTime=  12.00]
07502> R2000:C00011-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07503>      CONTINUOUS NASHYD     5.0 01:A3A           3.84     .033 2000.0625_11:00  183.76 .343     .000
07504>       [CN= 58.4: N= 3.00: Tp= 1.46]
07505>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
07506>       [InterEventTime=  12.00]
07507> R2000:C00012-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07508>  *  CONTINUOUS STANDHYD   5.0 01:Pond3-In       1.21     .036 2000.0625_10:00  269.09 .502     .000
07509>       [XIMP=.64:TIMP=.75]
07510>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  Fe=****]
07511>       [Pervious     area: IAper= 4.67:SLPP=2.50:LGP= 100.:MNP=.250:SCP=   .0]
07512>       [Impervious   area: IAimp= 1.57:SLPI=2.50:LGI=  50.:MNI=.013:SCI=   .0]
07513>       [IaRECimp=  12.00: IaRECper=  12.00]
07514> R2000:C00013-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07515>      ROUTE RESERVOIR ->    5.0 02:Pond3-In      1.21     .036 2000.0625_10:00  269.09  n/a     .000
07516>                      out <=    5.0 01:Pond3-Out     1.21     .003 2000.0625_11:00  269.07  n/a     .000
07517>                overflow <=    5.0 03:Pond3-Over      .00     .000 2000.0401_ 0:00    .00  n/a     .000
07518>       {MxStoUsed=.3726E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
07519> R2000:C00014-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07520>      ADD HYD               5.0 02:Pond3-Over      .00     .000 2000.0401_ 0:00    .00  n/a     .000
07521>                         +     5.0 02:Pond3-Out     1.21     .003 2000.0625_11:00  269.07  n/a     .000
07522>                       SUM=    5.0 01:Pond3-Ditc    1.21     .003 2000.0625_11:00  269.07  n/a     .000
07523> R2000:C00015-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07524>      ROUTE CHANNEL   ->    5.0 02:Pond3-Out     1.21     .003 2000.0625_11:00  269.07  n/a     .000
07525>       [RDT= 5.00] out<-     5.0 01:A3C-R         1.21     .003 2000.0625_14:55  269.07  n/a     .000
07526>       [L/S/n=  500./ .140/.035]
07527>       {Vmax=  .075:Dmax=  .039}
07528> R2000:C00016-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07529>      CONTINUOUS NASHYD     5.0 01:INT-3         5.71     .067 2000.0625_10:30  183.76 .343     .000
07530>       [CN= 58.5: N= 3.00: Tp=  .89]
07531>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
07532>       [InterEventTime=  12.00]
07533> R2000:C00017-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07534>      ADD HYD               5.0 02:R1            49.51     .189 2000.0625_11:15  183.41  n/a     .000
07535>                         +     5.0 02:INT-1         4.39     .037 2000.0625_11:10  183.84  n/a     .000
07536>                         +     5.0 02:INT-2         3.61     .030 2000.0625_10:35  183.42  n/a     .000
07537>                         +     5.0 02:INT-3         5.71     .067 2000.0625_10:30  183.76  n/a     .000
07538>                         +     5.0 02:A3A           3.84     .033 2000.0625_11:00  183.77  n/a     .000
07539>                         +     5.0 02:A3C-R         1.21     .003 2000.0625_14:55  269.07  n/a     .000
07540>                       SUM=    5.0 01:J2           68.26     .343 2000.0625_10:55  184.99  n/a     .000
07541> R2000:C00018-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07542>      ROUTE CHANNEL   ->    5.0 02:J2           68.26     .343 2000.0625_10:55  184.99  n/a     .000
07543>  *   [RDT= 5.00] out<-     5.0 01:R2           68.26     .340 2000.0625_11:00  184.99  n/a     .000
07544>       [L/S/n=  359./ .560/.035]
07545>       {Vmax=  .551:Dmax=  .178}
07546> R2000:C00019-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07547>      CONTINUOUS NASHYD     5.0 01:A1A          21.43     .083 2000.0625_11:10  183.17 .342     .000
07548>       [CN= 36.1: N= 3.00: Tp= 1.68]
07549>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
07550>       [InterEventTime=  12.00]
07551> R2000:C00020-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07552>      CONTINUOUS STANDHYD   5.0 01:Pond1-In      10.00     .197 2000.0625_10:00  165.42 .309     .000
07553>       [XIMP=.38:TIMP=.74]
07554>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  Fe=****]
07555>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP= 500.:MNP=.250:SCP=   .0]
07556>       [Impervious   area: IAimp= 1.57:SLPI=1.50:LGI= 250.:MNI=.013:SCI=   .0]
07557>       [IaRECimp=  12.00: IaRECper=  12.00]
07558> R2000:C00021-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07559>      ROUTE RESERVOIR ->    5.0 02:Pond1-In      10.00     .197 2000.0625_10:00  165.42  n/a     .000
07560>                      out <=    5.0 01:Pond1-Out     10.00     .027 2000.0625_12:05  165.42  n/a     .000
```

```
07561>           overflow <=    5.0 03:Pond1-Over      .00     .000 2000.0401_ 0:00      .00  n/a     .000
07562>      {MxStoUsed=.1467E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
07563> R2000:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07564>      CONTINUOUS NASHYD     5.0 01:A2             9.14     .120 2000.0625_10:40  184.20 .344     .000
07565>        [CN= 68.4: N= 3.00: Tp= 1.12]
07566>        [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
07567>        [InterEventTime=  12.00]
07568> R2000:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07569>      ADD HYD               5.0 02:R2            68.26     .340 2000.0625_11:00  184.99  n/a     .000
07570>                         +    5.0 02:A1A          21.43     .083 2000.0625_11:10  183.17  n/a     .000
07571>                         +    5.0 02:A2            9.14     .120 2000.0625_10:40  184.20  n/a     .000
07572>                         +    5.0 02:Pond1-Over     .00     .000 2000.0401_ 0:00      .00  n/a     .000
07573>                         +    5.0 02:Pond1-Out    10.00     .027 2000.0625_12:05  165.42  n/a     .000
07574>                       SUM=   5.0 01:J3           108.84     .563 2000.0625_10:55  182.77  n/a     .000
07575> R2000:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07576>      ROUTE CHANNEL     ->    5.0 02:J3           108.84     .563 2000.0625_10:55  182.77  n/a     .000
07577> *    [RDT= 5.00] out<-     5.0 01:R3           108.84     .551 2000.0625_11:10  182.77  n/a     .000
07578>        [L/S/n=  396./ .305/.035]
07579>        [Vmax=  .435:Dmax=  .344]
07580> R2000:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07581>      CONTINUOUS NASHYD     5.0 01:SOUTH-1       20.21     .084 2000.0625_11:00  183.15 .342     .000
07582>        [CN= 35.5: N= 3.00: Tp= 1.40]
07583>        [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
07584>        [InterEventTime=  12.00]
07585> R2000:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07586>      ADD HYD               5.0 02:R3           108.84     .551 2000.0625_11:10  182.77  n/a     .000
07587>                         +    5.0 02:SOUTH-1       20.21     .084 2000.0625_11:00  183.15  n/a     .000
07588>                       SUM=   5.0 01:J4           129.05     .634 2000.0625_11:10  182.83  n/a     .000
07589> R2000:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07590>      ROUTE CHANNEL     ->    5.0 02:J4           129.05     .634 2000.0625_11:10  182.83  n/a     .000
07591> *    [RDT= 5.00] out<-     5.0 01:R4           129.05     .624 2000.0625_11:25  182.83  n/a     .000
07592>        [L/S/n=  482./ .410/.035]
07593>        [Vmax=  .585:Dmax=  .341]
07594> R2000:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07595>      CONTINUOUS NASHYD     5.0 01:SOUTH-2       11.61     .064 2000.0625_10:35  183.17 .342     .000
07596>        [CN= 36.7: N= 3.00: Tp=  .96]
07597>        [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
07598>        [InterEventTime=  12.00]
07599> R2000:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07600>      ADD HYD               5.0 02:R4           129.05     .624 2000.0625_11:25  182.83  n/a     .000
07601>                         +    5.0 02:SOUTH-2       11.61     .064 2000.0625_10:35  183.17  n/a     .000
07602>                       SUM=   5.0 01:J5           140.66     .671 2000.0625_11:20  182.85  n/a     .000
07603> R2000:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07604>      ROUTE CHANNEL     ->    5.0 02:J5           140.66     .671 2000.0625_11:20  182.85  n/a     .000
07605> *    [RDT= 5.00] out<-     5.0 01:R5           140.66     .670 2000.0625_11:20  182.85  n/a     .000
07606>        [L/S/n=  181./ .500/.035]
07607>        [Vmax=  .561:Dmax=  .304]
07608> R2000:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07609>      CONTINUOUS NASHYD     5.0 01:SOUTH-3        7.98     .058 2000.0625_10:30  183.31 .342     .000
07610>        [CN= 42.6: N= 3.00: Tp=  .89]
07611>        [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
07612>        [InterEventTime=  12.00]
07613> R2000:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07614>      ADD HYD               5.0 02:R5           140.66     .670 2000.0625_11:20  182.85  n/a     .000
07615>                         +    5.0 02:SOUTH-3        7.98     .058 2000.0625_10:30  183.30  n/a     .000
07616>                       SUM=   5.0 01:J6           148.64     .709 2000.0625_11:15  182.88  n/a     .000
07617> R2000:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07618>      SAVE HYD              5.0 01:J6           148.64     .709 2000.0625_11:15  182.88  n/a     .000
07619>        fname :J6.2000
07620>        remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
07621> R2000:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07622>      ROUTE CHANNEL     ->    5.0 02:J6           148.64     .709 2000.0625_11:15  182.88  n/a     .000
07623> *    [RDT= 5.00] out<-     5.0 01:R6           148.64     .705 2000.0625_11:25  182.88  n/a     .000
07624>        [L/S/n=  323./ .440/.035]
07625>        [Vmax=  .614:Dmax=  .351]
07626> R2000:C00035------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07627>      CONTINUOUS NASHYD     5.0 01:SOUTH-4       14.99     .078 2000.0625_10:50  183.22 .342     .000
07628>        [CN= 39.5: N= 3.00: Tp= 1.23]
07629>        [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
07630>        [InterEventTime=  12.00]
07631> R2000:C00036------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07632>      ADD HYD               5.0 02:R6           148.64     .705 2000.0625_11:25  182.88  n/a     .000
07633>                         +    5.0 02:SOUTH-4       14.99     .078 2000.0625_10:50  183.22  n/a     .000
07634>                       SUM=   5.0 01:Total        163.63     .774 2000.0625_11:20  182.89  n/a     .000
07635> #===============================================================================
07636> #===============================================================================
07637> ###############################################################################
07638> # CONTINUOUS RAINFALL DATA
07639> ###############################################################################
07640> #*******************************************************************************
07641> # STORMS
07642> #*******************************************************************************
07643>   ** END OF RUN : 2001
07644>
07645> ********************************************************************************************************************

07646>
07647>
07648>
07649>
07650>
07651>  RUN#:COMMAND#
07652> R2002:C00001------------------------------------------------------------------------------------------------------
07653>      START
07654>      [TZERO =    .00 hrs on 20020401]
07655>      [METOUT=  2   (1=imperial, 2=metric output)]
07656>      [NSTORM=  0 ]
07657>      [NRUN  = 2002 ]
07658> #*******************************************************************************
07659> #  SWMHYMO  / INPUT DATA FILE
07660> #*******************************************************************************
07661> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
07662> #  Date        : 04-28-2021
07663> #  Modeller    : [J.B]
07664> #  Company     : JFSAinc.
07665> #  License #   :  2549237
07666> #*******************************************************************************
07667> #*******************************************************************************
07668> #*******************************************************************************
07669> # Ottawa International Airport - April 1st to October 31st
07670> R2002:C00002------------------------------------------------------------------------------------------------------
07671>  *  READ AES DATA                                                                                    ]
07672>      [Filename  = YOW_1967_2007.123
07673>      [Start_date= 2002.0401: End_date= 2002.1031]
07674>      {DT= 60.min: Length= 5064.hrs: WetHrs=  303: DryHrs= 4761: PTOT= 550.50}
07675>      Maximum average rainfall intensities over
07676>        1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
07677>       45.00    26.75    18.40     9.48     4.74     2.48     2.08     1.56     1.04    mm/hr
07678>       45.00    53.50    55.20    56.90    56.90    59.50    74.90    74.90    74.90    mm
07679>      20020627 20020627 20020627 20020627 20020627 20020627 20020627 20020627 20020628 20020629  date
07680>      Number of rainfall events per following interevent time
07681>        1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
07682>         100       83       78       56       47       41       36       34       25
07683>      Number of events with at least the following durations
07684>        1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
07685>          99       59       33       13        5        0        0        0        0
07686> R2002:C00003------------------------------------------------------------------------------------------------------
07687>      COMPUTE API
07688>      [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
07689>      {APImax=114.06: APIavg= 26.43: APImin=  4.40}
07690> R2002:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07691>      CONTINUOUS NASHYD     5.0 01:NORTH-1       34.70     .154 2002.0627_18:00  247.75 .450     .000
07692>        [CN= 38.1: N= 3.00: Tp= 4.12]
07693>        [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
07694>        [InterEventTime=  12.00]
07695> R2002:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07696>      CONTINUOUS NASHYD     5.0 01:NORTH-2       12.44     .224 2002.0627_15:05  249.09 .452     .000
07697>        [CN= 53.0: N= 3.00: Tp= 1.29]
07698>        [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
07699>        [InterEventTime=  12.00]
07700> R2002:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07701>      CONTINUOUS NASHYD     5.0 01:HWY-1          2.36     .087 2002.0627_14:55  255.37 .464     .000
07702>        [CN= 81.7: N= 3.00: Tp= 1.21]
07703>        [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
07704>        [InterEventTime=  12.00]
07705> R2002:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07706>      ADD HYD               5.0 02:NORTH-1       34.70     .154 2002.0627_18:00  247.75  n/a     .000
07707>                         +    5.0 02:NORTH-2       12.44     .224 2002.0627_15:05  249.09  n/a     .000
07708>                         +    5.0 02:HWY-1          2.36     .087 2002.0627_14:55  255.37  n/a     .000
07709>                       SUM=   5.0 01:J1           49.51     .384 2002.0627_15:10  248.45  n/a     .000
07710> R2002:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07711>      ROUTE CHANNEL     ->    5.0 02:J1           49.51     .384 2002.0627_15:10  248.45  n/a     .000
07712> *    [RDT= 5.00] out<-     5.0 01:R1           49.51     .378 2002.0627_15:25  248.45  n/a     .000
07713>        [L/S/n=  478./ .440/.035]
07714>        [Vmax=  .565:Dmax=  .293]
07715> R2002:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07716>      CONTINUOUS NASHYD     5.0 01:INT-1          4.39     .077 2002.0627_15:25  250.15 .454     .000
07717>        [CN= 60.4: N= 3.00: Tp= 1.66]
07718>        [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
07719>        [InterEventTime=  12.00]
07720> R2002:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07721>      CONTINUOUS NASHYD     5.0 01:INT-2          3.61     .072 2002.0627_14:45  248.41 .451     .000
07722>        [CN= 47.4: N= 3.00: Tp= .95]
07723>        [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
07724>        [InterEventTime=  12.00]
07725> R2002:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07726>      CONTINUOUS NASHYD     5.0 01:A3A            3.84     .071 2002.0627_15:15  249.83 .454     .000
07727>        [CN= 58.4: N= 3.00: Tp= 1.46]
07728>        [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
07729>        [InterEventTime=  12.00]
07730> R2002:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07731> *  CONTINUOUS STANDHYD    5.0 01:Pond3-In       1.21     .135 2002.0627_14:00  312.31 .567     .000
07732>        [XIMP=.64:TIMP=.75]
07733>        [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F=****]
07734>        [Pervious     area: IAper= 4.67:SLPP=2.50:LGP= 100.:MNP=.250:SCP=   .0]
07735>        [Impervious   area: IAimp= 1.57:SLPI=2.50:LGI=  50.:MNI=.013:SCI=   .0]
07736>        [IaRECimp=  12.00: IaRECper=  12.00]
07737> R2002:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07738>      ROUTE RESERVOIR ->    5.0 02:Pond3-In       1.21     .135 2002.0627_14:00  312.31  n/a     .000
07739>                  out <=    5.0 01:Pond3-Out      1.21     .004 2002.0627_16:00  312.29  n/a     .000
07740>           overflow <=    5.0 03:Pond3-Over      .00     .000 2002.0404_ 0:00      .00  n/a     .000
07741>      {MxStoUsed=.6070E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
07742> R2002:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07743>      ADD HYD               5.0 02:Pond3-Over      .00     .000 2002.0404_ 0:00      .00  n/a     .000
07744>                         +    5.0 02:Pond3-Out      1.21     .004 2002.0627_16:00  312.29  n/a     .000
07745>                       SUM=   5.0 01:Pond3-Ditc     1.21     .004 2002.0627_16:00  312.29  n/a     .000
07746> R2002:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07747>      ROUTE CHANNEL     ->    5.0 02:Pond3-Out      1.21     .004 2002.0627_16:00  312.29  n/a     .000
07748>      [RDT= 5.00] out<-     5.0 01:A3C-R          1.21     .003 2002.0627_18:45  312.29  n/a     .000
07749>        [L/S/n=  500./ .140/.035]
07750>        [Vmax=  .085:Dmax=  .044]
07751> R2002:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07752>      CONTINUOUS NASHYD     5.0 01:INT-3          5.71     .162 2002.0627_14:40  249.83 .454     .000
07753>        [CN= 58.5: N= 3.00: Tp=  .89]
07754>        [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
07755>        [InterEventTime=  12.00]
07756> R2002:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07757>      ADD HYD               5.0 02:R1           49.51     .378 2002.0627_15:25  248.45  n/a     .000
07758>                         +    5.0 02:INT-1          4.39     .077 2002.0627_15:25  250.15  n/a     .000
07759>                         +    5.0 02:INT-2          3.61     .072 2002.0627_14:45  248.41  n/a     .000
07760>                         +    5.0 02:INT-3          5.71     .162 2002.0627_14:40  249.83  n/a     .000
07761>                         +    5.0 02:A3A            3.84     .071 2002.0627_15:15  249.83  n/a     .000
07762>                         +    5.0 02:A3C-R          1.21     .003 2002.0627_18:45  312.29  n/a     .000
07763>                       SUM=   5.0 01:J2           68.26     .713 2002.0627_15:05  249.85  n/a     .000
07764> R2002:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07765>      ROUTE CHANNEL     ->    5.0 02:J2           68.26     .713 2002.0627_15:05  249.85  n/a     .000
07766>      [RDT= 5.00] out<-     5.0 01:R2           68.26     .709 2002.0627_15:10  249.85  n/a     .000
07767>        [L/S/n=  359./ .560/.035]
07768>        [Vmax=  .706:Dmax=  .258]
07769> R2002:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07770>      CONTINUOUS NASHYD     5.0 01:A1A           21.43     .182 2002.0627_15:30  247.63 .450     .000
07771>        [CN= 36.1: N= 3.00: Tp= 1.68]
07772>        [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
07773>        [InterEventTime=  12.00]
07774> R2002:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07775>      CONTINUOUS STANDHYD    5.0 01:Pond1-In      10.00     .885 2002.0627_14:00  208.88 .379     .000
07776>        [XIMP=.38:TIMP=.74]
07777>        [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F=****]
07778>        [Pervious     area: IAper= 4.67:SLPP=2.00:LGP= 500.:MNP=.250:SCP=   .0]
07779>        [Impervious   area: IAimp= 1.57:SLPI=1.50:LGI= 250.:MNI=.013:SCI=   .0]
07780>        [IaRECimp=  12.00: IaRECper=  12.00]
07781> R2002:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07782>      ROUTE RESERVOIR ->    5.0 02:Pond1-In      10.00     .885 2002.0627_14:00  208.88  n/a     .000
07783>                  out <=    5.0 01:Pond1-Out     10.00     .033 2002.0627_16:10  208.88  n/a     .000
07784>           overflow <=    5.0 03:Pond1-Over      .00     .000 2002.0404_ 0:00      .00  n/a     .000
07785>      {MxStoUsed=.3996E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
07786> R2002:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07787>      CONTINUOUS NASHYD     5.0 01:A2             9.14     .269 2002.0627_14:50  251.56 .457     .000
07788>        [CN= 68.4: N= 3.00: Tp=1.12]
07789>        [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
07790>        [InterEventTime=  12.00]
07791> R2002:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07792>      ADD HYD               5.0 02:R2           68.26     .709 2002.0627_15:10  249.85  n/a     .000
07793>                         +    5.0 02:A1A          21.43     .182 2002.0627_15:30  247.63  n/a     .000
07794>                         +    5.0 02:A2            9.14     .269 2002.0627_14:50  251.56  n/a     .000
07795>                         +    5.0 02:Pond1-Over     .00     .000 2002.0404_ 0:00      .00  n/a     .000
07796>                         +    5.0 02:Pond1-Out     10.00     .033 2002.0627_16:10  208.88  n/a     .000
07797>                       SUM=   5.0 01:J3           108.84    1.173 2002.0627_15:10  245.79  n/a     .000
07798> R2002:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07799>      ROUTE CHANNEL     ->    5.0 02:J3           108.84    1.173 2002.0627_15:10  245.79  n/a     .000
07800>      [RDT= 5.00] out<-     5.0 01:R3           108.84    1.157 2002.0627_15:20  245.79  n/a     .000
07801>        [L/S/n=  396./ .305/.035]
07802>        {Vmax=  .534:Dmax=  .429}
07803> R2002:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07804>      CONTINUOUS NASHYD     5.0 01:SOUTH-1       20.21     .190 2002.0627_15:10  247.58 .450     .000
07805>        [CN= 35.5: N= 3.00: Tp= 1.40]
07806>        [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
07807>        [InterEventTime=  12.00]
07808> R2002:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07809>      ADD HYD               5.0 02:R3           108.84    1.157 2002.0627_15:20  245.79  n/a     .000
07810>                         +    5.0 02:SOUTH-1       20.21     .190 2002.0627_15:10  247.58  n/a     .000
07811>                       SUM=   5.0 01:J4           129.05    1.346 2002.0627_15:15  246.07  n/a     .000
07812> R2002:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07813>      ROUTE CHANNEL     ->    5.0 02:J4           129.05    1.346 2002.0627_15:15  246.07  n/a     .000
07814>      [RDT= 5.00] out<-     5.0 01:R4           129.05    1.324 2002.0627_15:30  246.07  n/a     .000
07815>        [L/S/n=  482./ .410/.035]
07816>        {Vmax=  .677:Dmax=  .454}
07817> R2002:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07818>      CONTINUOUS NASHYD     5.0 01:SOUTH-2       11.61     .157 2002.0627_14:45  247.63 .450     .000
07819>        [CN= 36.7: N= 3.00: Tp=  .96]
07820>        [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
07821>        [InterEventTime=  12.00]
07822> R2002:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07823>      ADD HYD               5.0 02:R4           129.05    1.324 2002.0627_15:30  246.07  n/a     .000
07824>                         +    5.0 02:SOUTH-2       11.61     .157 2002.0627_14:45  247.63  n/a     .000
07825>                       SUM=   5.0 01:J5           140.66    1.441 2002.0627_15:25  246.20  n/a     .000
07826> R2002:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07827>      ROUTE CHANNEL     ->    5.0 02:J5           140.66    1.441 2002.0627_15:25  246.20  n/a     .000
07828>      [RDT= 5.00] out<-     5.0 01:R5           140.66    1.437 2002.0627_15:30  246.20  n/a     .000
07829>        [L/S/n=  181./ .500/.035]
07830>        {Vmax=  .659:Dmax=  .399}
07831> R2002:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07832>      CONTINUOUS NASHYD     5.0 01:SOUTH-3        7.98     .144 2002.0627_14:40  247.93 .450     .000
07833>        [CN= 42.6: N= 3.00: Tp=  .89]
07834>        [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
07835>        [InterEventTime=  12.00]
07836> R2002:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07837>      ADD HYD               5.0 02:R5           140.66    1.437 2002.0627_15:30  246.20  n/a     .000
07838>                         +    5.0 02:SOUTH-3        7.98     .144 2002.0627_14:40  247.93  n/a     .000
07839>                       SUM=   5.0 01:J6           148.64    1.532 2002.0627_15:25  246.29  n/a     .000
07840> R2002:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07841>      SAVE HYD              5.0 01:J6           148.64    1.532 2002.0627_15:25  246.29  n/a     .000
07842>        fname :J6.2002
07843>        remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
07844> R2002:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07845>      ROUTE CHANNEL     ->    5.0 02:J6           148.64    1.532 2002.0627_15:25  246.29  n/a     .000
07846>      [RDT= 5.00] out<-     5.0 01:R6           148.64    1.522 2002.0627_15:35  246.29  n/a     .000
07847>        [L/S/n=  323./ .440/.035]
07848>        {Vmax=  .715:Dmax=  .472}
07849> R2002:C00035------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07850>      CONTINUOUS NASHYD     5.0 01:SOUTH-4       14.99     .181 2002.0627_15:00  247.75 .450     .000
07851>        [CN= 39.5: N= 3.00: Tp= 1.23]
07852>        [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
07853>        [InterEventTime=  12.00]
07854> R2002:C00036------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07855>      ADD HYD               5.0 02:R6           148.64    1.522 2002.0627_15:35  246.29  n/a     .000
07856>                         +    5.0 02:SOUTH-4       14.99     .181 2002.0627_15:00  247.75  n/a     .000
07857>                       SUM=   5.0 01:Total        163.63    1.686 2002.0627_15:30  246.43  n/a     .000
07858> #===============================================================================
07859> #===============================================================================
07860> ###############################################################################
07861> # CONTINUOUS RAINFALL DATA
07862> ###############################################################################
07863> #*******************************************************************************
07864> # STORMS
07865> #*******************************************************************************
07866>  ** END OF RUN : 2002
07867>
07868> ********************************************************************************************************************

07869>
07870>
07871>
07872>
07873>
07874>  RUN#:COMMAND#
07875> R2003:C00001------------------------------------------------------------------------------------------------------
07876>      START
07877>      [TZERO =    .00 hrs on 20030401]
07878>      [METOUT=  2   (1=imperial, 2=metric output)]
07879>      [NSTORM=  0 ]
07880>      [NRUN  = 2003 ]
07881> #*******************************************************************************
07882> #  SWMHYMO  / INPUT DATA FILE
07883> #*******************************************************************************
07884> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
07885> #  Date        : 04-28-2021
07886> #  Modeller    : [J.B]
07887> #  Company     : JFSAinc.
07888> #  License #   :  2549237
07889> #*******************************************************************************
07890> #*******************************************************************************
07891> #*******************************************************************************
07892> # Ottawa International Airport - April 1st to October 31st
07893> R2003:C00002------------------------------------------------------------------------------------------------------
07894>  *  READ AES DATA
07895>      [Filename  = YOW_1967_2007.123                                                                   ]
07896>      [Start_date= 2003.0401: End_date= 2003.1031]
07897>      {DT= 60.min: Length= 4416.hrs: WetHrs=  406: DryHrs= 4010: PTOT= 554.60}
07898>      Maximum average rainfall intensities over
07899>        1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
07900>       15.10    10.00     7.13     4.28     3.18     1.86     1.25      .94      .81    mm/hr
07901>       15.10    20.00    21.40    25.70    38.20    44.60    44.90    45.10    58.30    mm
07902>      20030711 20030711 20030711 20030711 20031021 20031015 20030525 20030526 20030527  date
07903>      Number of rainfall events per following interevent time
07904>        1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
07905>         145      127      109       85       63       44       38       25       15
07906>      Number of events with at least the following durations
07907>        1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
07908>         144       80       43       13        5        1        0        0        0
07909> R2003:C00003------------------------------------------------------------------------------------------------------
07910>      COMPUTE API
07911>      [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
07912>      {APImax= 72.10: APIavg= 28.14: APImin=  4.70}
07913> R2003:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07914>      CONTINUOUS NASHYD     5.0 01:NORTH-1       34.70     .062 2003.1021_11:35  179.04 .323     .000
07915>        [CN= 38.1: N= 3.00: Tp= 4.12]
07916>        [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
07917>        [InterEventTime=  12.00]
07918> R2003:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07919>      CONTINUOUS NASHYD     5.0 01:NORTH-2       12.44     .065 2003.0711_17:55  183.22 .330     .000
07920>        [CN= 53.0: N= 3.00: Tp= 1.29]
```

```
07921>      [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
07922>      [InterEventTime=  12.00]
07923> R2003:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07924>    CONTINUOUS NASHYD     5.0 01:HWY-1          2.36      .031 2003.0711_17:45  199.04 .359     .000
07925>      [CN= 81.7: N= 3.00: Tp= 1.21]
07926>      [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
07927>      [InterEventTime=  12.00]
07928> R2003:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07929>    ADD HYD               5.0 02:NORTH-1       34.70      .062 2003.1021_11:35  179.04  n/a     .000
07930>                        +   5.0 02:NORTH-2       12.44      .065 2003.0711_17:55  183.22  n/a     .000
07931>                        +   5.0 02:HWY-1          2.36      .031 2003.0711_17:45  199.04  n/a     .000
07932>                      SUM=  5.0 01:J1           49.51      .135 2003.1021_ 9:30  181.05  n/a     .000
07933> R2003:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07934>    ROUTE CHANNEL    ->    5.0 02:J1           49.51      .135 2003.1021_ 9:30  181.05  n/a     .000
07935> *   [RDT= 5.00] out<-    5.0 01:R1           49.51      .134 2003.1021_ 9:45  181.05  n/a     .000
07936>      [L/S/n=  478./ .440/.035]
07937>      {Vmax=  .428:Dmax=  .188}
07938> R2003:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07939>    CONTINUOUS NASHYD     5.0 01:INT-1          4.39      .024 2003.1021_ 9:35  186.02 .335     .000
07940>      [CN= 60.4: N= 3.00: Tp= 1.66]
07941>      [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
07942>      [InterEventTime=  12.00]
07943> R2003:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07944>    CONTINUOUS NASHYD     5.0 01:INT-2          3.61      .020 2003.0711_17:35  181.39 .327     .000
07945>      [CN= 47.4: N= 3.00: Tp=  .95]
07946>      [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
07947>      [InterEventTime=  12.00]
07948> R2003:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07949>    CONTINUOUS NASHYD     5.0 01:A3A            3.84      .022 2003.0711_18:05  185.19 .334     .000
07950>      [CN= 58.4: N= 3.00: Tp= 1.46]
07951>      [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
07952>      [InterEventTime=  12.00]
07953> R2003:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07954> *  CONTINUOUS STANDHYD   5.0 01:Pond3-In       1.21      .035 2003.0711_17:00  285.99 .516     .000
07955>      [XIMP=.64:TIMP=.75]
07956>      [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  Fe=****]
07957>      [Pervious     area: IAper= 4.67:SLPP=2.50:LGP= 100.:MNP=.250:SCP=   .0]
07958>      [Impervious   area: IAimp= 1.57:SLPI=2.50:LGI=  50.:MNI=.013:SCI=   .0]
07959>      [IaRECimp=  12.00: IaRECper=  12.00]
07960> R2003:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07961>    ROUTE RESERVOIR ->    5.0 02:Pond3-In       1.21      .035 2003.0711_17:00  285.99  n/a     .000
07962>                  out <=  5.0 01:Pond3-Out      1.21      .003 2003.1021_ 9:05  285.97  n/a     .000
07963>            overflow <=   5.0 03:Pond3-Over      .00      .000 2003.0501_ 0:00     .00  n/a     .000
07964>    {MxStoUsed=.2824E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
07965> R2003:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07966>    ADD HYD               5.0 02:Pond3-Over      .00      .000 2003.0501_ 0:00     .00  n/a     .000
07967>                        +   5.0 02:Pond3-Out      1.21      .003 2003.1021_ 9:05  285.97  n/a     .000
07968>                      SUM=  5.0 01:Pond3-Ditc     1.21      .003 2003.1021_ 9:05  285.97  n/a     .000
07969> R2003:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07970>    ROUTE CHANNEL    ->    5.0 02:Pond3-Out      1.21      .003 2003.1021_ 9:05  285.97  n/a     .000
07971>    [RDT= 5.00] out<-     5.0 01:A3C-R          1.21      .003 2003.1021_11:30  285.97  n/a     .000
07972>      [L/S/n=  500./ .140/.035]
07973>      {Vmax=  .075:Dmax=  .039}
07974> R2003:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07975>    CONTINUOUS NASHYD     5.0 01:INT-3          5.71      .047 2003.0711_17:35  185.19 .334     .000
07976>      [CN= 58.5: N= 3.00: Tp=  .89]
07977>      [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
07978>      [InterEventTime=  12.00]
07979> R2003:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07980>    ADD HYD               5.0 02:R1             49.51      .134 2003.1021_ 9:45  181.05  n/a     .000
07981>                        +   5.0 02:INT-1          4.39      .024 2003.1021_ 9:35  186.02  n/a     .000
07982>                        +   5.0 02:INT-2          3.61      .020 2003.0711_17:35  181.39  n/a     .000
07983>                        +   5.0 02:INT-3          5.71      .047 2003.0711_17:35  185.19  n/a     .000
07984>                        +   5.0 02:A3A            3.84      .022 2003.0711_18:05  185.19  n/a     .000
07985>                        +   5.0 02:A3C-R          1.21      .003 2003.1021_11:30  285.97  n/a     .000
07986>                      SUM=  5.0 01:J2           68.26      .230 2003.1021_ 9:25  183.81  n/a     .000
07987> R2003:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07988>    ROUTE CHANNEL    ->    5.0 02:J2           68.26      .230 2003.1021_ 9:25  183.81  n/a     .000
07989>    [RDT= 5.00] out<-     5.0 01:R2           68.26      .229 2003.1021_ 9:30  183.81  n/a     .000
07990>      [L/S/n=  359./ .560/.035]
07991>      {Vmax=  .481:Dmax=  .147}
07992> R2003:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07993>    CONTINUOUS NASHYD     5.0 01:A1A           21.43      .057 2003.1021_ 9:40  178.41 .322     .000
07994>      [CN= 36.1: N= 3.00: Tp= 1.68]
07995>      [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
07996>      [InterEventTime=  12.00]
07997> R2003:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
07998>    CONTINUOUS STANDHYD   5.0 01:Pond1-In      10.00      .201 2003.0711_17:00  177.11 .319     .000
07999>      [XIMP=.38:TIMP=.74]
08000>      [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  Fe=****]
08001>      [Pervious     area: IAper= 4.67:SLPP=2.00:LGP= 500.:MNP=.250:SCP=   .0]
08002>      [Impervious   area: IAimp= 1.57:SLPI=1.50:LGI= 250.:MNI=.013:SCI=   .0]
08003>      [IaRECimp=  12.00: IaRECper=  12.00]
08004> R2003:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08005>    ROUTE RESERVOIR ->    5.0 02:Pond1-In      10.00      .201 2003.0711_17:00  177.11  n/a     .000
08006>                  out <=  5.0 01:Pond1-Out     10.00      .024 2003.0711_19:15  177.11  n/a     .000
08007>            overflow <=   5.0 03:Pond1-Over      .00      .000 2003.0501_ 0:00     .00  n/a     .000
08008>    {MxStoUsed=.9654E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
08009> R2003:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08010>    CONTINUOUS NASHYD     5.0 01:A2            9.14      .005 2003.0711_17:45  189.65 .342     .000
08011>      [CN= 68.4: N= 3.00: Tp= 1.12]
08012>      [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
08013>      [InterEventTime=  12.00]
08014> R2003:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08015>    ADD HYD               5.0 02:R2             68.26      .229 2003.1021_ 9:30  183.81  n/a     .000
08016>                        +   5.0 02:A1A           21.43      .057 2003.1021_ 9:40  178.41  n/a     .000
08017>                        +   5.0 02:A2            9.14      .085 2003.0711_17:45  189.65  n/a     .000
08018>                        +   5.0 02:Pond1-Over     .00      .000 2003.0501_ 0:00     .00  n/a     .000
08019>                        +   5.0 02:Pond1-Out     10.00      .024 2003.0711_19:15  177.11  n/a     .000
08020>                      SUM=  5.0 01:J3           108.84      .377 2003.1021_ 9:25  182.61  n/a     .000
08021> R2003:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08022>    ROUTE CHANNEL    ->    5.0 02:J3           108.84      .377 2003.1021_ 9:25  182.61  n/a     .000
08023>    [RDT= 5.00] out<-     5.0 01:R3           108.84      .372 2003.1021_ 9:40  182.61  n/a     .000
08024>      [L/S/n=  396./ .305/.035]
08025>      {Vmax=  .406:Dmax=  .298}
08026> R2003:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08027>    CONTINUOUS NASHYD     5.0 01:SOUTH-1       20.21      .055 2003.1021_ 9:25  178.10 .321     .000
08028>      [CN= 35.5: N= 3.00: Tp= 1.40]
08029>      [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
08030>      [InterEventTime=  12.00]
08031> R2003:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08032>    ADD HYD               5.0 02:R3            108.84      .372 2003.1021_ 9:40  182.61  n/a     .000
08033>                        +   5.0 02:SOUTH-1       20.21      .055 2003.1021_ 9:25  178.10  n/a     .000
08034>                      SUM=  5.0 01:J4           129.05      .426 2003.1021_ 9:40  181.90  n/a     .000
08035> R2003:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08036>    ROUTE CHANNEL    ->    5.0 02:J4           129.05      .426 2003.1021_ 9:40  181.90  n/a     .000
08037>    [RDT= 5.00] out<-     5.0 01:R4           129.05      .422 2003.1021_ 9:50  181.90  n/a     .000
08038>      [L/S/n=  482./ .410/.035]
08039>      {Vmax=  .538:Dmax=  .289}
08040> R2003:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08041>    CONTINUOUS NASHYD     5.0 01:SOUTH-2       11.61      .041 2003.0711_17:40  178.41 .322     .000
08042>      [CN= 36.7: N= 3.00: Tp=  .96]
08043>      [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
08044>      [InterEventTime=  12.00]
08045> R2003:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08046>    ADD HYD               5.0 02:R4            129.05      .422 2003.1021_ 9:50  181.90  n/a     .000
08047>                        +   5.0 02:SOUTH-2       11.61      .041 2003.0711_17:40  178.41  n/a     .000
08048>                      SUM=  5.0 01:J5           140.66      .453 2003.1021_ 9:45  181.62  n/a     .000
08049> R2003:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08050>    ROUTE CHANNEL    ->    5.0 02:J5           140.66      .453 2003.1021_ 9:45  181.62  n/a     .000
08051>    [RDT= 5.00] out<-     5.0 01:R5           140.66      .452 2003.1021_ 9:50  181.62  n/a     .000
08052>      [L/S/n=  181./ .500/.035]
08053>      {Vmax=  .513:Dmax=  .265}
08054> R2003:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08055>    CONTINUOUS NASHYD     5.0 01:SOUTH-3        7.98      .038 2003.0711_17:35  180.02 .325     .000
08056>      [CN= 42.6: N= 3.00: Tp=  .89]
08057>      [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
08058>      [InterEventTime=  12.00]
08059> R2003:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08060>    ADD HYD               5.0 02:R5            140.66      .452 2003.1021_ 9:50  181.62  n/a     .000
08061>                        +   5.0 02:SOUTH-3        7.98      .038 2003.0711_17:35  180.02  n/a     .000
08062>                      SUM=  5.0 01:J6           148.64      .478 2003.1021_ 9:45  181.53  n/a     .000
08063> R2003:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08064>    SAVE HYD              5.0 01:J6           148.64      .478 2003.1021_ 9:45  181.53  n/a     .000
08065>      fname :J6.2003
08066>      remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
08067> R2003:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08068>    ROUTE CHANNEL    ->    5.0 02:J6           148.64      .478 2003.1021_ 9:45  181.53  n/a     .000
08069>    [RDT= 5.00] out<-     5.0 01:R6           148.64      .476 2003.1021_ 9:50  181.53  n/a     .000
08070>      [L/S/n=  323./ .440/.035]
08071>      {Vmax=  .567:Dmax=  .299}
08072> R2003:C00035------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08073>    CONTINUOUS NASHYD     5.0 01:SOUTH-4       14.99      .049 2003.0711_17:50  179.04 .323     .000
08074>      [CN= 39.5: N= 3.00: Tp= 1.23]
08075>      [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
08076>      [InterEventTime=  12.00]
08077> R2003:C00036------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08078>    ADD HYD               5.0 02:R6            148.64      .476 2003.1021_ 9:50  181.53  n/a     .000
08079>                        +   5.0 02:SOUTH-4       14.99      .049 2003.0711_17:50  179.04  n/a     .000
08080>                      SUM=  5.0 01:Total        163.63      .521 2003.1021_ 9:50  181.29  n/a     .000
08081> ##############################################################################
08082> ##############################################################################
08083> ##############################################################################
08084> # CONTINUOUS RAINFALL DATA
08085> ##############################################################################
08086> #**************************************************************************
08087> # STORMS
08088> #**************************************************************************
08089>   ** END OF RUN : 2003
08090>
08091> ***************************************************************************************************
08092>
08093>
08094>
08095>
08096>
08097>  RUN#:COMMAND#
08098> R2004:C00001------------------------------------------------------------------------------------------
08099>    START
08100>      [TZERO =    .00 hrs on 20040401]
08101>      [METOUT=   2   (1=imperial, 2=metric output)]
08102>      [NSTORM=   0 ]
08103>      [NRUN  = 2004 ]
08104> #**************************************************************************
08105> #  SWMHYMO  / INPUT DATA FILE
08106> #**************************************************************************
08107> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
08108> #  Date        : 04-28-2021
08109> #  Modeller    : [J.B]
08110> #  Company     : JFSAinc.
08111> #  License #   :  2549237
08112> #**************************************************************************
08113> #**************************************************************************
08114> #**************************************************************************
08115> # Ottawa International Airport - April 1st to October 31st
08116> R2004:C00002------------------------------------------------------------------------------------------
08117>    *  READ AES DATA
08118>      [Filename  = YOW_1967_2007.123                                        ]
08119>      [Start_date= 2004.0401: End_date= 2004.1031]
08120>      [DT= 60.min: Lengths= 5040.hrs: WetHrs=  327: DryHrs= 4713: PTOT= 573.30}
08121>      Maximum average rainfall intensities over
08122>        1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
08123>       30.30    23.40    20.23    15.87    10.42     5.69     3.79     2.85     1.98    mm/hr
08124>       30.30    46.80    60.70    95.20   125.00   136.60   136.60   136.60   142.30    mm
08125>      20040909 20040909 20040909 20040909 20040909 20040909 20040910 20040910 20040910  date
08126>      Number of rainfall events per following interevent time
08127>        1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
08128>         121       99       80       68       56       48       40       27       20
08129>      Number of events with at least the following durations
08130>        1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
08131>         120       74       41       11        1        1        0        0        0
08132> R2004:C00003------------------------------------------------------------------------------------------
08133>      COMPUTE API
08134>      [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
08135>      [APImax=143.97: APIavg= 27.32: APImin=  7.60]
08136> R2004:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08137>    CONTINUOUS NASHYD     5.0 01:NORTH-1       34.70      .534 2004.0909_17:00  236.78 .413     .000
08138>      [CN= 38.1: N= 3.00: Tp= 4.12]
08139>      [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
08140>      [InterEventTime=  12.00]
08141> R2004:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08142>    CONTINUOUS NASHYD     5.0 01:NORTH-2       12.44      .346 2004.0909_14:30  238.88 .417     .000
08143>      [CN= 53.0: N= 3.00: Tp= 1.29]
08144>      [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
08145>      [InterEventTime=  12.00]
08146> R2004:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08147>    CONTINUOUS NASHYD     5.0 01:HWY-1          2.36      .112 2004.0909_11:20  245.26 .428     .000
08148>      [CN= 81.7: N= 3.00: Tp= 1.21]
08149>      [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
08150>      [InterEventTime=  12.00]
08151> R2004:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08152>    ADD HYD               5.0 02:NORTH-1       34.70      .534 2004.0909_17:00  236.78  n/a     .000
08153>                        +   5.0 02:NORTH-2       12.44      .346 2004.0909_14:30  238.88  n/a     .000
08154>                        +   5.0 02:HWY-1          2.36      .112 2004.0909_11:20  245.26  n/a     .000
08155>                      SUM=  5.0 01:J1           49.51      .889 2004.0909_15:30  237.71  n/a     .000
08156> R2004:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08157>    ROUTE CHANNEL    ->    5.0 02:J1           49.51      .889 2004.0909_15:30  237.71  n/a     .000
08158> *   [RDT= 5.00] out<-    5.0 01:R1           49.51      .884 2004.0909_15:45  237.71  n/a     .000
08159>      [L/S/n=  478./ .440/.035]
08160>      {Vmax=  .602:Dmax=  .407}
08161> R2004:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08162>    CONTINUOUS NASHYD     5.0 01:INT-1          4.39      .133 2004.0909_13:50  240.05 .419     .000
08163>      [CN= 60.4: N= 3.00: Tp= 1.66]
08164>      [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
08165>      [InterEventTime=  12.00]
08166> R2004:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08167>    CONTINUOUS NASHYD     5.0 01:INT-2          3.61      .097 2004.0909_11:25  238.03 .415     .000
08168>      [CN= 47.4: N= 3.00: Tp=  .95]
08169>      [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
08170>      [InterEventTime=  12.00]
08171> R2004:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08172>    CONTINUOUS NASHYD     5.0 01:A3A            3.84      .115 2004.0909_13:45  239.72 .418     .000
08173>      [CN= 58.4: N= 3.00: Tp= 1.46]
08174>      [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
08175>      [InterEventTime=  12.00]
08176> R2004:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08177> *  CONTINUOUS STANDHYD   5.0 01:Pond3-In       1.21      .089 2004.0909_10:00  325.70 .568     .000
08178>      [XIMP=.64:TIMP=.75]
08179>      [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  Fe=****]
08180>      [Pervious     area: IAper= 4.67:SLPP=2.50:LGP= 100.:MNP=.250:SCP=   .0]
08181>      [Impervious   area: IAimp= 1.57:SLPI=2.50:LGI=  50.:MNI=.013:SCI=   .0]
08182>      [IaRECimp=  12.00: IaRECper=  12.00]
08183> R2004:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08184>    ROUTE RESERVOIR ->    5.0 02:Pond3-In       1.21      .089 2004.0909_10:00  325.70  n/a     .000
08185>                  out <=  5.0 01:Pond3-Out      1.21      .027 2004.0909_13:25  325.68  n/a     .000
08186>            overflow <=   5.0 03:Pond3-Over      .00      .000 2004.0405_ 0:00     .00  n/a     .000
08187>    {MxStoUsed=.9097E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
08188> R2004:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08189>    ADD HYD               5.0 02:Pond3-Over      .00      .000 2004.0405_ 0:00     .00  n/a     .000
08190>                        +   5.0 02:Pond3-Out      1.21      .027 2004.0909_13:25  325.68  n/a     .000
08191>                      SUM=  5.0 01:Pond3-Ditc     1.21      .027 2004.0909_13:25  325.68  n/a     .000
08192> R2004:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08193>    ROUTE CHANNEL    ->    5.0 02:Pond3-Out      1.21      .027 2004.0909_13:25  325.68  n/a     .000
08194>    [RDT= 5.00] out<-     5.0 01:A3C-R          1.21      .026 2004.0909_15:00  325.68  n/a     .000
08195>      [L/S/n=  500./ .140/.035]
08196>      {Vmax=  .181:Dmax=  .109}
08197> R2004:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08198>    CONTINUOUS NASHYD     5.0 01:INT-3          5.71      .202 2004.0909_11:15  239.72 .418     .000
08199>      [CN= 58.5: N= 3.00: Tp=  .89]
08200>      [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
08201>      [InterEventTime=  12.00]
08202> R2004:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08203>    ADD HYD               5.0 02:R1             49.51      .884 2004.0909_15:45  237.71  n/a     .000
08204>                        +   5.0 02:INT-1          4.39      .133 2004.0909_13:50  240.05  n/a     .000
08205>                        +   5.0 02:INT-2          3.61      .097 2004.0909_11:25  238.03  n/a     .000
08206>                        +   5.0 02:INT-3          5.71      .202 2004.0909_11:15  239.72  n/a     .000
08207>                        +   5.0 02:A3A            3.84      .115 2004.0909_13:45  239.72  n/a     .000
08208>                        +   5.0 02:A3C-R          1.21      .026 2004.0909_15:00  325.68  n/a     .000
08209>                      SUM=  5.0 01:J2           68.26     1.385 2004.0909_15:15  239.69  n/a     .000
08210> R2004:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08211>    ROUTE CHANNEL    ->    5.0 02:J2           68.26     1.385 2004.0909_15:15  239.69  n/a     .000
08212>    [RDT= 5.00] out<-     5.0 01:R2           68.26     1.385 2004.0909_15:20  239.69  n/a     .000
08213>      [L/S/n=  359./ .560/.035]
08214>      {Vmax=  .868:Dmax=  .362}
08215> R2004:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08216>    CONTINUOUS NASHYD     5.0 01:A1A           21.43      .424 2004.0909_15:20  236.40 .412     .000
08217>      [CN= 36.1: N= 3.00: Tp= 1.68]
08218>      [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
08219>      [InterEventTime=  12.00]
08220> R2004:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08221>    CONTINUOUS STANDHYD   5.0 01:Pond1-In      10.00      .618 2004.0909_10:00  250.59 .437     .000
08222>      [XIMP=.38:TIMP=.74]
08223>      [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  Fe=****]
08224>      [Pervious     area: IAper= 4.67:SLPP=2.00:LGP= 500.:MNP=.250:SCP=   .0]
08225>      [Impervious   area: IAimp= 1.57:SLPI=1.50:LGI= 250.:MNI=.013:SCI=   .0]
08226>      [IaRECimp=  12.00: IaRECper=  12.00]
08227> R2004:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08228>    ROUTE RESERVOIR ->    5.0 02:Pond1-In      10.00      .618 2004.0909_10:00  250.59  n/a     .000
08229>                  out <=  5.0 01:Pond1-Out     9.58      .038 2004.0909_13:55  250.59  n/a     .000
08230>            overflow <=   5.0 03:Pond1-Over      .42      .191 2004.0909_13:55  250.59  n/a     .000
08231>    {MxStoUsed=.6760E+00  m3, TotOvfVol=.5043E+00  m3, N-Ovf=    2, TotDurOvf=    2.hrs}
08232> R2004:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08233>    CONTINUOUS NASHYD     5.0 01:A2            9.14      .362 2004.0909_11:25  241.41 .421     .000
08234>      [CN= 68.4: N= 3.00: Tp= 1.12]
08235>      [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
08236>      [InterEventTime=  12.00]
08237> R2004:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08238>    ADD HYD               5.0 02:R2             68.26     1.385 2004.0909_15:20  239.69  n/a     .000
08239>                        +   5.0 02:A1A           21.43      .424 2004.0909_15:20  236.40  n/a     .000
08240>                        +   5.0 02:A2            9.14      .362 2004.0909_11:25  241.41  n/a     .000
08241>                        +   5.0 02:Pond1-Over     .42      .191 2004.0909_13:55  250.59  n/a     .000
08242>                        +   5.0 02:Pond1-Out      9.58      .038 2004.0909_13:55  250.59  n/a     .000
08243>                      SUM=  5.0 01:J3           108.84     2.302 2004.0909_15:00  240.19  n/a     .000
08244> R2004:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08245>    ROUTE CHANNEL    ->    5.0 02:J3           108.84     2.302 2004.0909_15:00  240.19  n/a     .000
08246>    [RDT= 5.00] out<-     5.0 01:R3           108.84     2.294 2004.0909_15:00  240.19  n/a     .000
08247>      [L/S/n=  396./ .305/.035]
08248>      {Vmax=  .619:Dmax=  .523}
08249> R2004:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08250>    CONTINUOUS NASHYD     5.0 01:SOUTH-1       20.21      .393 2004.0909_15:15  236.21 .412     .000
08251>      [CN= 35.5: N= 3.00: Tp= 1.40]
08252>      [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
08253>      [InterEventTime=  12.00]
08254> R2004:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08255>    ADD HYD               5.0 02:R3            108.84     2.294 2004.0909_15:00  240.19  n/a     .000
08256>                        +   5.0 02:SOUTH-1       20.21      .393 2004.0909_15:15  236.21  n/a     .000
08257>                      SUM=  5.0 01:J4           129.05     2.685 2004.0909_15:00  239.56  n/a     .000
08258> R2004:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08259>    ROUTE CHANNEL    ->    5.0 02:J4           129.05     2.685 2004.0909_15:00  239.56  n/a     .000
08260>    [RDT= 5.00] out<-     5.0 01:R4           129.05     2.677 2004.0909_15:05  239.56  n/a     .000
08261>      [L/S/n=  482./ .410/.035]
08262>      {Vmax=  .761:Dmax=  .591}
08263> R2004:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08264>    CONTINUOUS NASHYD     5.0 01:SOUTH-2       11.61      .238 2004.0909_14:40  236.40 .412     .000
08265>      [CN= 36.7: N= 3.00: Tp=  .96]
08266>      [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
08267>      [InterEventTime=  12.00]
08268> R2004:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08269>    ADD HYD               5.0 02:R4            129.05     2.677 2004.0909_15:05  239.56  n/a     .000
08270>                        +   5.0 02:SOUTH-2       11.61      .238 2004.0909_14:40  236.40  n/a     .000
08271>                      SUM=  5.0 01:J5           140.66     2.914 2004.0909_15:05  239.30  n/a     .000
08272> R2004:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08273>    ROUTE CHANNEL    ->    5.0 02:J5           140.66     2.914 2004.0909_15:05  239.30  n/a     .000
08274>    [RDT= 5.00] out<-     5.0 01:R5           140.66     2.910 2004.0909_15:05  239.30  n/a     .000
08275>      [L/S/n=  181./ .500/.035]
08276>      {Vmax=  .712:Dmax=  .509}
08277> R2004:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08278>    CONTINUOUS NASHYD     5.0 01:SOUTH-3        7.98      .192 2004.0909_11:20  237.33 .414     .000
08279>      [CN= 42.6: N= 3.00: Tp=  .89]
08280>      [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
```

```
08281>       [InterEventTime=  12.00]
08282> R2004:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08283>     ADD HYD                5.0 02:R5          140.66    2.910 2004.0909_15:05  239.30  n/a     .000
08284>                    +       5.0 02:SOUTH-3       7.98     .192 2004.0909_11:20  237.32  n/a     .000
08285>                SUM=        5.0 01:J6          148.64    3.097 2004.0909_15:05  239.19  n/a     .000
08286> R2004:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08287>     SAVE HYD               5.0 01:J6          148.64    3.097 2004.0909_15:05  239.19  n/a     .000
08288>       fname :J6.2004
08289>       remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
08290> R2004:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08291>     ROUTE CHANNEL    ->    5.0 02:J6          148.64    3.097 2004.0909_15:05  239.19  n/a     .000
08292>      [RDT= 5.00] out<-    5.0 01:R6          148.64    3.093 2004.0909_15:10  239.19  n/a     .000
08293>       [L/S/n=  323./ .440/.035]
08294>       {Vmax=  .802:Dmax=  .616}
08295> R2004:C00035------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08296>     CONTINUOUS NASHYD      5.0 01:SOUTH-4       14.99     .324 2004.0909_15:10  236.78 .413     .000
08297>       [CN= 39.5: N= 3.00: Tp= 1.23]
08298>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
08299>       [InterEventTime=  12.00]
08300> R2004:C00036------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08301>     ADD HYD                5.0 02:R6          148.64    3.093 2004.0909_15:10  239.19  n/a     .000
08302>                    +       5.0 02:SOUTH-4       14.99     .324 2004.0909_15:10  236.78  n/a     .000
08303>                SUM=        5.0 01:Total       163.63    3.417 2004.0909_15:10  238.97  n/a     .000
08304> #===============================================================================
08305> #===============================================================================
08306> ###############################################################################
08307> # CONTINUOUS RAINFALL DATA
08308> ###############################################################################
08309> #***********************************************************************
08310> # STORMS
08311> #***********************************************************************
08312>  ** END OF RUN : 2005
08313>
08314> ************************************************************************************************************
08315>
08316>
08317>
08318>
08319>
08320>  RUN#:COMMAND#
08321> R2006:C00001------------------------------------------------------------------------------------------------
08322>      START
08323>       [TZERO =    .00 hrs on 20060401]
08324>       [METOUT=   2   (1=imperial, 2=metric output)]
08325>       [NSTORM=   0 ]
08326>       [NRUN  = 2006 ]
08327> #***********************************************************************
08328> #  SWMHYMO  / INPUT DATA FILE
08329> #***********************************************************************
08330> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
08331> #  Date        : 04-28-2021
08332> #  Modeller    : [J.B]
08333> #  Company     : JFSAinc.
08334> #  License #   :  2549237
08335> #***********************************************************************
08336> #***********************************************************************
08337> #***********************************************************************
08338> # Ottawa International Airport - April 1st to October 31st
08339> R2006:C00002------------------------------------------------------------------------------------------------
08340>  *  READ AES DATA
08341>       [Filename  = YOW_1967_2007.123                                    ]
08342>       [Start_date= 2006.0401: End_date= 2006.1031]
08343>       {DT= 60.min: Length= 5112.hrs: WetHrs=  477: DryHrs= 4635: PTOT= 723.40}
08344>       Maximum average rainfall intensities over
08345>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
08346>        16.90    10.60     9.23     6.67     3.84     2.11     1.49     1.32     1.03    mm/hr
08347>        16.90    21.20    27.70    40.00    46.10    50.70    53.60    63.50    74.20    mm
08348>       20060801 20060903 20060903 20060903 20060903 20060903 20060903 20060904 20060802 20060803  date
08349>       Number of rainfall events per following interevent time
08350>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
08351>          141      113       98       74       60       47       40       30       21
08352>       Number of events with at least the following durations
08353>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
08354>          140        9       88       58        0       22        9        0        0        0        0
08355> R2006:C00003------------------------------------------------------------------------------------------------
08356>      COMPUTE API
08357>       [APIini= 50.00: APIkdy=  .9000: APIkdt= .9956]
08358>       {APImax= 85.47: APIavg= 32.83: APImin=  8.90}
08359> R2006:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08360>     CONTINUOUS NASHYD      5.0 01:NORTH-1       34.70     .055 2006.0801_ 6:30  284.68 .394     .000
08361>       [CN= 38.1: N= 3.00: Tp= 4.12]
08362>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
08363>       [InterEventTime=  12.00]
08364> R2006:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08365>     CONTINUOUS NASHYD      5.0 01:NORTH-2       12.44     .077 2006.0801_ 3:55  286.55 .396     .000
08366>       [CN= 53.0: N= 3.00: Tp= 1.29]
08367>       [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
08368>       [InterEventTime=  12.00]
08369> R2006:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08370>     CONTINUOUS NASHYD      5.0 01:HWY-1         2.36     .036 2006.0801_ 3:45  294.61 .407     .000
08371>       [CN= 81.7: N= 3.00: Tp= 1.21]
08372>       [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
08373>       [InterEventTime=  12.00]
08374> R2006:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08375>     ADD HYD                5.0 02:NORTH-1       34.70     .055 2006.0801_ 6:30  284.68  n/a     .000
08376>                    +       5.0 02:NORTH-2       12.44     .077 2006.0801_ 3:55  286.55  n/a     .000
08377>                    +       5.0 02:HWY-1          2.36     .036 2006.0801_ 3:45  294.61  n/a     .000
08378>                SUM=        5.0 01:J1          49.51     .147 2006.0801_ 4:00  285.62  n/a     .000
08379> R2006:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08380>     ROUTE CHANNEL    ->    5.0 02:J1          49.51     .147 2006.0801_ 4:00  285.62  n/a     .000
08381>  *  [RDT= 5.00] out<-    5.0 01:R1          49.51     .143 2006.0801_ 4:15  285.62  n/a     .000
08382>       [L/S/n=  478./ .440/.035]
08383>       {Vmax=  .437:Dmax=  .194}
08384> R2006:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08385>     CONTINUOUS NASHYD      5.0 01:INT-1         4.39     .028 2006.0801_ 4:10  287.87 .398     .000
08386>       [CN= 60.4: N= 3.00: Tp= 1.66]
08387>       [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
08388>       [InterEventTime=  12.00]
08389> R2006:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08390>     CONTINUOUS NASHYD      5.0 01:INT-2         3.61     .023 2006.0801_ 3:35  285.72 .395     .000
08391>       [CN= 47.4: N= 3.00: Tp=  .95]
08392>       [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
08393>       [InterEventTime=  12.00]
08394> R2006:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08395>     CONTINUOUS NASHYD      5.0 01:A3A           3.84     .026 2006.0801_ 4:00  287.47 .397     .000
08396>       [CN= 58.4: N= 3.00: Tp= 1.46]
08397>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
08398>       [InterEventTime=  12.00]
08399> R2006:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08400>  *  CONTINUOUS STANDHYD    5.0 01:Pond3-In      1.21     .043 2006.0801_ 3:00  392.97 .543     .000
08401>       {XIMP=.64:TIMP=.75}
08402>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F=****]
08403>       [Pervious     area: IAper= 4.67:SLPP=2.50:LGP= 100.:MNP=.250:SCP=   .0]
08404>       [Impervious   area: IAimp= 1.57:SLPI=2.50:LGI=  50.:MNI=.013:SCI=   .0]
08405>       [IaRECimp=  12.00: IaRECper=  12.00]
08406> R2006:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08407>     ROUTE RESERVOIR ->    5.0 02:Pond3-In      1.21     .043 2006.0801_ 3:00  392.97  n/a     .000
08408>              out <=     5.0 01:Pond3-Out     1.21     .003 2006.0801_ 3:45  392.93  n/a     .000
08409>           overflow <=   5.0 03:Pond3-Over      .00     .000 2006.0402_ 0:00    .00  n/a     .000
08410>       {MxStoUsed=.3306E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=   0.hrs}
08411> R2006:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08412>     ADD HYD                5.0 02:Pond3-Over      .00     .000 2006.0402_ 0:00    .00  n/a     .000
08413>                    +       5.0 02:Pond3-Out     1.21     .003 2006.0801_ 3:45  392.93  n/a     .000
08414>                SUM=        5.0 01:Pond3-Ditc    1.21     .003 2006.0801_ 3:45  392.93  n/a     .000
08415> R2006:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08416>     ROUTE CHANNEL    ->    5.0 02:Pond3-Out     1.21     .003 2006.0801_ 3:45  392.93  n/a     .000
08417>      [RDT= 5.00] out<-    5.0 01:A3C-R         1.21     .003 2006.0903_10:25  392.93  n/a     .000
08418>       [L/S/n=  500./ .140/.035]
08419>       {Vmax=  .075:Dmax=  .039}
08420> R2006:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08421>     CONTINUOUS NASHYD      5.0 01:INT-3         5.71     .055 2006.0801_ 3:35  287.47 .397     .000
08422>       [CN= 58.5: N= 3.00: Tp=  .89]
08423>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
08424>       [InterEventTime=  12.00]
08425> R2006:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08426>     ADD HYD                5.0 02:R1          49.51     .143 2006.0801_ 4:15  285.62  n/a     .000
08427>                    +       5.0 02:INT-1         4.39     .028 2006.0801_ 4:10  287.87  n/a     .000
08428>                    +       5.0 02:INT-2         3.61     .023 2006.0801_ 3:35  285.72  n/a     .000
08429>                    +       5.0 02:INT-3         5.71     .055 2006.0801_ 3:35  287.47  n/a     .000
08430>                    +       5.0 02:A3A           3.84     .026 2006.0801_ 4:00  287.47  n/a     .000
08431>                    +       5.0 02:A3C-R         1.21     .003 2006.0903_10:25  392.93  n/a     .000
08432>                SUM=        5.0 01:J2          68.26     .263 2006.0801_ 3:55  287.90  n/a     .000
08433> R2006:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08434>     ROUTE CHANNEL    ->    5.0 02:J2          68.26     .263 2006.0801_ 3:55  287.90  n/a     .000
08435>      [RDT= 5.00] out<-    5.0 01:R2          68.26     .260 2006.0801_ 4:05  287.90  n/a     .000
08436>       [L/S/n=  359./ .560/.035]
08437>       {Vmax=  .505:Dmax=  .157}
08438> R2006:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08439>     CONTINUOUS NASHYD      5.0 01:A1A          21.43     .061 2006.0801_ 4:15  284.41 .393     .000
08440>       [CN= 36.1: N= 3.00: Tp= 1.68]
08441>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
08442>       [InterEventTime=  12.00]
08443> R2006:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08444>     CONTINUOUS STANDHYD    5.0 01:Pond1-In      10.00     .239 2006.0801_ 3:00  253.68 .351     .000
08445>       {XIMP=.38:TIMP=.74}
08446>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F=****]
08447>       [Pervious     area: IAper= 4.67:SLPP=2.50:LGP= 500.:MNP=.250:SCP=   .0]
08448>       [Impervious   area: IAimp= 1.57:SLPI=1.50:LGI= 250.:MNI=.013:SCI=   .0]
08449>       [IaRECimp=  12.00: IaRECper=  12.00]
08450> R2006:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08451>     ROUTE RESERVOIR ->    5.0 02:Pond1-In      10.00     .239 2006.0801_ 3:00  253.68  n/a     .000
08452>              out <=     5.0 01:Pond1-Out     10.00     .027 2006.0903_ 4:40  253.68  n/a     .000
08453>           overflow <=   5.0 03:Pond1-Over      .00     .000 2006.0402_ 0:00    .00  n/a     .000
08454>       {MxStoUsed=.1637E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=   0.hrs}
08455> R2006:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08456>     CONTINUOUS NASHYD      5.0 01:A2            9.14     .099 2006.0801_ 3:45  289.66 .400     .000
08457>       [CN= 68.4: N= 3.00: Tp= 1.12]
08458>       [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
08459>       [InterEventTime=  12.00]
08460> R2006:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08461>     ADD HYD                5.0 02:R2          68.26     .260 2006.0801_ 4:05  287.90  n/a     .000
08462>                    +       5.0 02:A1A          21.43     .061 2006.0801_ 4:15  284.41  n/a     .000
08463>                    +       5.0 02:A2            9.14     .099 2006.0801_ 3:45  289.66  n/a     .000
08464>                    +       5.0 02:Pond1-Over     .00     .000 2006.0402_ 0:00    .00  n/a     .000
08465>                    +       5.0 02:Pond1-Out     10.00     .027 2006.0903_ 4:40  253.68  n/a     .000
08466>                SUM=        5.0 01:J3          108.84     .440 2006.0801_ 4:00  284.21  n/a     .000
08467> R2006:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08468>     ROUTE CHANNEL    ->    5.0 02:J3          108.84     .440 2006.0801_ 4:00  284.21  n/a     .000
08469>      [RDT= 5.00] out<-    5.0 01:R3          108.84     .428 2006.0801_ 4:15  284.21  n/a     .000
08470>       [L/S/n=  396./ .305/.035]
08471>       {Vmax=  .416:Dmax=  .316}
08472> R2006:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08473>     CONTINUOUS NASHYD      5.0 01:SOUTH-1       20.21     .062 2006.0801_ 4:00  284.28 .393     .000
08474>       [CN= 35.5: N= 3.00: Tp= 1.40]
08475>       [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
08476>       [InterEventTime=  12.00]
08477> R2006:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08478>     ADD HYD                5.0 02:R3          108.84     .428 2006.0801_ 4:15  284.21  n/a     .000
08479>                    +       5.0 02:SOUTH-1       20.21     .062 2006.0801_ 4:00  284.28  n/a     .000
08480>                SUM=        5.0 01:J4          129.05     .489 2006.0801_ 4:15  284.22  n/a     .000
08481> R2006:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08482>     ROUTE CHANNEL    ->    5.0 02:J4          129.05     .489 2006.0801_ 4:15  284.22  n/a     .000
08483>      [RDT= 5.00] out<-    5.0 01:R4          129.05     .480 2006.0801_ 4:25  284.22  n/a     .000
08484>       [L/S/n=  482./ .410/.035]
08485>       {Vmax=  .554:Dmax=  .307}
08486> R2006:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08487>     CONTINUOUS NASHYD      5.0 01:SOUTH-2       11.61     .049 2006.0801_ 3:40  284.41 .393     .000
08488>       [CN= 36.7: N= 3.00: Tp=  .96]
08489>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
08490>       [InterEventTime=  12.00]
08491> R2006:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08492>     ADD HYD                5.0 02:R4          129.05     .480 2006.0801_ 4:25  284.22  n/a     .000
08493>                    +       5.0 02:SOUTH-2       11.61     .049 2006.0801_ 3:40  284.41  n/a     .000
08494>                SUM=        5.0 01:J5          140.66     .513 2006.0801_ 4:20  284.23  n/a     .000
08495> R2006:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08496>     ROUTE CHANNEL    ->    5.0 02:J5          140.66     .513 2006.0801_ 4:20  284.23  n/a     .000
08497>      [RDT= 5.00] out<-    5.0 01:R5          140.66     .512 2006.0801_ 4:25  284.23  n/a     .000
08498>       [L/S/n=  181./ .500/.035]
08499>       {Vmax=  .525:Dmax=  .276}
08500> R2006:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08501>     CONTINUOUS NASHYD      5.0 01:SOUTH-3        7.98     .046 2006.0801_ 3:35  285.11 .394     .000
08502>       [CN= 42.6: N= 3.00: Tp=  .89]
08503>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
08504>       [InterEventTime=  12.00]
08505> R2006:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08506>     ADD HYD                5.0 02:R5          140.66     .512 2006.0801_ 4:25  284.23  n/a     .000
08507>                    +       5.0 02:SOUTH-3        7.98     .046 2006.0801_ 3:35  285.11  n/a     .000
08508>                SUM=        5.0 01:J6          148.64     .540 2006.0801_ 4:20  284.28  n/a     .000
08509> R2006:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08510>     SAVE HYD               5.0 01:J6          148.64     .540 2006.0801_ 4:20  284.28  n/a     .000
08511>       fname :J6.2006
08512>       remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
08513> R2006:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08514>     ROUTE CHANNEL    ->    5.0 02:J6          148.64     .540 2006.0801_ 4:20  284.28  n/a     .000
08515>      [RDT= 5.00] out<-    5.0 01:R6          148.64     .536 2006.0801_ 4:30  284.28  n/a     .000
08516>       [L/S/n=  323./ .440/.035]
08517>       {Vmax=  .583:Dmax=  .316}
08518> R2006:C00035------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08519>     CONTINUOUS NASHYD      5.0 01:SOUTH-4       14.99     .059 2006.0801_ 3:50  284.68 .394     .000
08520>       [CN= 39.5: N= 3.00: Tp= 1.23]
08521>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
08522>       [InterEventTime=  12.00]
08523> R2006:C00036------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08524>     ADD HYD                5.0 02:R6          148.64     .536 2006.0801_ 4:30  284.28  n/a     .000
08525>                    +       5.0 02:SOUTH-4       14.99     .059 2006.0801_ 3:50  284.68  n/a     .000
08526>                SUM=        5.0 01:Total       163.63     .586 2006.0801_ 4:25  284.32  n/a     .000
08527> #===============================================================================
08528> #===============================================================================
08529> ###############################################################################
08530> # CONTINUOUS RAINFALL DATA
08531> ###############################################################################
08532> #***********************************************************************
08533> # STORMS
08534> #***********************************************************************
08535>  ** END OF RUN : 2006
08536>
08537> ************************************************************************************************************
08538>
08539>
08540>
08541>
08542>
08543>  RUN#:COMMAND#
08544> R2007:C00001------------------------------------------------------------------------------------------------
08545>      START
08546>       [TZERO =    .00 hrs on 20070401]
08547>       [METOUT=   2   (1=imperial, 2=metric output)]
08548>       [NSTORM=   0 ]
08549>       [NRUN  = 2007 ]
08550> #***********************************************************************
08551> #  SWMHYMO  / INPUT DATA FILE
08552> #***********************************************************************
08553> #  Project Name: [THUNDER ROAD]    Project Number: [2128]
08554> #  Date        : 04-28-2021
08555> #  Modeller    : [J.B]
08556> #  Company     : JFSAinc.
08557> #  License #   :  2549237
08558> #***********************************************************************
08559> #***********************************************************************
08560> #***********************************************************************
08561> # Ottawa International Airport - April 1st to October 31st
08562> R2007:C00002------------------------------------------------------------------------------------------------
08563>  *  READ AES DATA
08564>       [Filename  = YOW_1967_2007.123                                    ]
08565>       [Start_date= 2007.0401: End_date= 2007.1031]
08566>       {DT= 60.min: Length= 5136.hrs: WetHrs=  417: DryHrs= 4719: PTOT= 550.70}
08567>       Maximum average rainfall intensities over
08568>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
08569>        23.20    11.60     7.80     5.03     5.63     2.82     1.90     1.45      .97    mm/hr
08570>        23.20    23.20    23.40    42.80    67.50    67.70    68.30    69.80    69.80    mm
08571>       20070829 20070829 20070829 20070829 20070720 20070720 20070721 20070720 20070720 20070721  date
08572>       Number of rainfall events per following interevent time
08573>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
08574>          158      120      109       82       64       49       36       29       20
08575>       Number of events with at least the following durations
08576>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
08577>          157       84       53       15        4        0        0        0        0
08578> R2007:C00003------------------------------------------------------------------------------------------------
08579>      COMPUTE API
08580>       [APIini= 50.00: APIkdy= .9000: APIkdt= .9956]
08581>       {APImax= 86.91: APIavg= 25.42: APImin=  4.68}
08582> R2007:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08583>     CONTINUOUS NASHYD      5.0 01:NORTH-1       34.70     .141 2007.0720_15:20  170.87 .310     .000
08584>       [CN= 38.1: N= 3.00: Tp= 4.12]
08585>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
08586>       [InterEventTime=  12.00]
08587> R2007:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08588>     CONTINUOUS NASHYD      5.0 01:NORTH-2       12.44     .103 2007.0720_11:40  171.81 .312     .000
08589>       [CN= 53.0: N= 3.00: Tp= 1.29]
08590>       [IaREC= 6.00: SMIN= 91.01: SMAX=606.70: SK= .030]
08591>       [InterEventTime=  12.00]
08592> R2007:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08593>     CONTINUOUS NASHYD      5.0 01:HWY-1         2.36     .036 2007.0720_11:25  176.59 .321     .000
08594>       [CN= 81.7: N= 3.00: Tp= 1.21]
08595>       [IaREC= 6.00: SMIN= 25.21: SMAX=168.09: SK= .030]
08596>       [InterEventTime=  12.00]
08597> R2007:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08598>     ADD HYD                5.0 02:NORTH-1       34.70     .141 2007.0720_15:20  170.87  n/a     .000
08599>                    +       5.0 02:NORTH-2       12.44     .103 2007.0720_11:40  171.81  n/a     .000
08600>                    +       5.0 02:HWY-1          2.36     .036 2007.0720_11:25  176.59  n/a     .000
08601>                SUM=        5.0 01:J1          49.51     .251 2007.0720_13:45  171.38  n/a     .000
08602> R2007:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08603>     ROUTE CHANNEL    ->    5.0 02:J1          49.51     .251 2007.0720_13:45  171.38  n/a     .000
08604>  *  [RDT= 5.00] out<-    5.0 01:R1          49.51     .251 2007.0720_13:55  171.38  n/a     .000
08605>       [L/S/n=  478./ .440/.035]
08606>       {Vmax=  .507:Dmax=  .245}
08607> R2007:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08608>     CONTINUOUS NASHYD      5.0 01:INT-1         4.39     .041 2007.0720_12:20  172.49 .313     .000
08609>       [CN= 60.4: N= 3.00: Tp= 1.66]
08610>       [IaREC= 6.00: SMIN= 67.24: SMAX=448.24: SK= .030]
08611>       [InterEventTime=  12.00]
08612> R2007:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08613>     CONTINUOUS NASHYD      5.0 01:INT-2         3.61     .027 2007.0720_11:30  171.39 .311     .000
08614>       [CN= 47.4: N= 3.00: Tp=  .95]
08615>       [IaREC= 6.00: SMIN=115.26: SMAX=768.40: SK= .030]
08616>       [InterEventTime=  12.00]
08617> R2007:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08618>     CONTINUOUS NASHYD      5.0 01:A3A           3.84     .035 2007.0720_11:50  172.29 .313     .000
08619>       [CN= 58.4: N= 3.00: Tp= 1.46]
08620>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
08621>       [InterEventTime=  12.00]
08622> R2007:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08623>  *  CONTINUOUS STANDHYD    5.0 01:Pond3-In      1.21     .052 2007.0829_18:00  279.72 .508     .000
08624>       {XIMP=.64:TIMP=.75}
08625>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F=****]
08626>       [Pervious     area: IAper= 4.67:SLPP=2.50:LGP= 100.:MNP=.250:SCP=   .0]
08627>       [Impervious   area: IAimp= 1.57:SLPI=2.50:LGI=  50.:MNI=.013:SCI=   .0]
08628>       [IaRECimp=  12.00: IaRECper=  12.00]
08629> R2007:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08630>     ROUTE RESERVOIR ->    5.0 02:Pond3-In      1.21     .052 2007.0829_18:00  279.72  n/a     .000
08631>              out <=     5.0 01:Pond3-Out     1.21     .003 2007.0720_14:05  279.70  n/a     .000
08632>           overflow <=   5.0 03:Pond3-Over      .00     .000 2007.0401_ 0:00    .00  n/a     .000
08633>       {MxStoUsed=.4569E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=   0.hrs}
08634> R2007:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08635>     ADD HYD                5.0 02:Pond3-Over      .00     .000 2007.0401_ 0:00    .00  n/a     .000
08636>                    +       5.0 02:Pond3-Out     1.21     .003 2007.0720_14:05  279.70  n/a     .000
08637>                SUM=        5.0 01:Pond3-Ditc    1.21     .003 2007.0720_14:05  279.70  n/a     .000
08638> R2007:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08639>     ROUTE CHANNEL    ->    5.0 02:Pond3-Out     1.21     .003 2007.0720_14:05  279.70  n/a     .000
08640>      [RDT= 5.00] out<-    5.0 01:A3C-R         1.21     .003 2007.0720_15:00  279.70  n/a     .000
```

```
08641>       [L/S=  500./ .140/.035]
08642>       {Vmax=  .078:Dmax=  .040}
08643> R2007:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08644>     CONTINUOUS NASHYD     5.0 01:INT-3          5.71     .057 2007.0720_11:25  172.29 .313     .000
08645>       [CN= 58.5: N= 3.00: Tp=  .89]
08646>       [IaREC= 6.00: SMIN= 73.13: SMAX=487.55: SK= .030]
08647>       [InterEventTime=  12.00]
08648> R2007:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08649>     ADD HYD               5.0 02:R1            49.51     .251 2007.0720_13:55  171.38  n/a     .000
08650>                     +     5.0 02:INT-1          4.39     .041 2007.0720_12:20  172.49  n/a     .000
08651>                     +     5.0 02:INT-2          3.61     .027 2007.0720_11:30  171.39  n/a     .000
08652>                     +     5.0 02:INT-3          5.71     .057 2007.0720_11:25  172.29  n/a     .000
08653>                     +     5.0 02:A3A            3.84     .035 2007.0720_11:50  172.29  n/a     .000
08654>                     +     5.0 02:A3C-R          1.21     .003 2007.0720_15:00  279.70  n/a     .000
08655>                   SUM=    5.0 01:J2            68.26     .398 2007.0720_13:30  173.48  n/a     .000
08656> R2007:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08657>     ROUTE CHANNEL    ->    5.0 02:J2            68.26     .398 2007.0720_13:30  173.48  n/a     .000
08658>       [RDT= 5.00] out<-    5.0 01:R2            68.26     .398 2007.0720_13:35  173.48  n/a     .000
08659>       [L/S/n=  359./ .560/.035]
08660>       {Vmax=  .584:Dmax=  .193}
08661> R2007:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08662>     CONTINUOUS NASHYD     5.0 01:A1A           21.43     .104 2007.0720_13:30  170.74 .310     .000
08663>       [CN= 36.1: N= 3.00: Tp= 1.68]
08664>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
08665>       [InterEventTime=  12.00]
08666> R2007:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08667>     CONTINUOUS STANDHYD   5.0 01:Pond1-In      10.00     .280 2007.0829_18:00  181.21 .329     .000
08668>       [XIMP=.38:TIMP=.74]
08669>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14;  Fe=****]
08670>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP= 500.:MNP=.250:SCP=   .0]
08671>       [Impervious   area: IAimp= 1.57:SLPI=1.50:LGI= 250.:MNI=.013:SCI=   .0]
08672>       [IaRECimp=  12.00: IaRECper=  12.00]
08673> R2007:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08674>     ROUTE RESERVOIR ->    5.0 02:Pond1-In      10.00     .280 2007.0829_18:00  181.21  n/a     .000
08675>                 out <=    5.0 01:Pond1-Out     10.00     .029 2007.0720_14:00  181.21  n/a     .000
08676>             overflow <=   5.0 03:Pond1-Over       .00     .000 2007.0401_ 0:00     .00  n/a     .000
08677>       {MxStoUsed=.2110E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
08678> R2007:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08679>     CONTINUOUS NASHYD     5.0 01:A2            9.14     .109 2007.0720_11:30  173.50 .315     .000
08680>       [CN= 68.4: N= 3.00: Tp= 1.12]
08681>       [IaREC= 6.00: SMIN= 48.56: SMAX=323.73: SK= .030]
08682>       [InterEventTime=  12.00]
08683> R2007:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08684>     ADD HYD               5.0 02:R2            68.26     .398 2007.0720_13:35  173.48  n/a     .000
08685>                     +     5.0 02:A1A           21.43     .104 2007.0720_13:30  170.74  n/a     .000
08686>                     +     5.0 02:A2             9.14     .109 2007.0720_11:30  173.50  n/a     .000
08687>                     +     5.0 02:Pond1-Over      .00     .000 2007.0401_ 0:00     .00  n/a     .000
08688>                     +     5.0 02:Pond1-Out     10.00     .029 2007.0720_14:00  181.21  n/a     .000
08689>                   SUM=    5.0 01:J3           108.84     .624 2007.0720_13:30  173.65  n/a     .000
08690> R2007:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08691>     ROUTE CHANNEL    ->    5.0 02:J3           108.84     .624 2007.0720_13:30  173.65  n/a     .000
08692>       [RDT= 5.00] out<-    5.0 01:R3           108.84     .623 2007.0720_13:35  173.65  n/a     .000
08693>       [L/S/n=  396./ .305/.035]
08694>       {Vmax=  .444:Dmax=  .356}
08695> R2007:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08696>     CONTINUOUS NASHYD     5.0 01:SOUTH-1       20.21     .094 2007.0720_13:25  170.67 .310     .000
08697>       [CN= 35.5: N= 3.00: Tp= 1.40]
08698>       [IaREC= 6.00: SMIN=204.20: SMAX=******: SK= .030]
08699>       [InterEventTime=  12.00]
08700> R2007:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08701>     ADD HYD               5.0 02:R3           108.84     .623 2007.0720_13:35  173.65  n/a     .000
08702>                     +     5.0 02:SOUTH-1       20.21     .094 2007.0720_13:25  170.67  n/a     .000
08703>                   SUM=    5.0 01:J4           129.05     .717 2007.0720_13:35  173.18  n/a     .000
08704> R2007:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08705>     ROUTE CHANNEL    ->    5.0 02:J4           129.05     .717 2007.0720_13:35  173.18  n/a     .000
08706>       [RDT= 5.00] out<-    5.0 01:R4           129.05     .716 2007.0720_13:40  173.18  n/a     .000
08707>       [L/S/n=  482./ .410/.035]
08708>       {Vmax=  .598:Dmax=  .357}
08709> R2007:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08710>     CONTINUOUS NASHYD     5.0 01:SOUTH-2       11.61     .060 2007.0720_11:30  170.74 .310     .000
08711>       [CN= 36.7: N= 3.00: Tp=  .96]
08712>       [IaREC= 6.00: SMIN=191.09: SMAX=******: SK= .030]
08713>       [InterEventTime=  12.00]
08714> R2007:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08715>     ADD HYD               5.0 02:R4           129.05     .716 2007.0720_13:40  173.18  n/a     .000
08716>                     +     5.0 02:SOUTH-2       11.61     .060 2007.0720_11:30  170.74  n/a     .000
08717>                   SUM=    5.0 01:J5           140.66     .772 2007.0720_13:35  172.98  n/a     .000
08718> R2007:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08719>     ROUTE CHANNEL    ->    5.0 02:J5           140.66     .772 2007.0720_13:35  172.98  n/a     .000
08720>       [RDT= 5.00] out<-    5.0 01:R5           140.66     .772 2007.0720_13:35  172.98  n/a     .000
08721>       [L/S/n=  181./ .500/.035]
08722>       {Vmax=  .587:Dmax=  .323}
08723> R2007:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08724>     CONTINUOUS NASHYD     5.0 01:SOUTH-3        7.98     .052 2007.0720_11:30  171.09 .311     .000
08725>       [CN= 42.6: N= 3.00: Tp=  .89]
08726>       [IaREC= 6.00: SMIN=141.94: SMAX=946.27: SK= .030]
08727>       [InterEventTime=  12.00]
08728> R2007:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08729>     ADD HYD               5.0 02:R5           140.66     .772 2007.0720_13:35  172.98  n/a     .000
08730>                     +     5.0 02:SOUTH-3        7.98     .052 2007.0720_11:30  171.09  n/a     .000
08731>                   SUM=    5.0 01:J6           148.64     .819 2007.0720_13:25  172.88  n/a     .000
08732> R2007:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08733>     SAVE HYD              5.0 01:J6           148.64     .819 2007.0720_13:25  172.88  n/a     .000
08734>       fname :J6.2007
08735>       remark:J6-Bearbrook Tributary Upstream of Thunder Road Crossing
08736> R2007:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08737>     ROUTE CHANNEL    ->    5.0 02:J6           148.64     .819 2007.0720_13:25  172.88  n/a     .000
08738>       [RDT= 5.00] out<-    5.0 01:R6           148.64     .819 2007.0720_13:35  172.88  n/a     .000
08739>       [L/S/n=  323./ .440/.035]
08740>       {Vmax=  .632:Dmax=  .370}
08741> R2007:C00035------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08742>     CONTINUOUS NASHYD     5.0 01:SOUTH-4       14.99     .082 2007.0720_11:45  170.87 .310     .000
08743>       [CN= 39.5: N= 3.00: Tp= 1.23]
08744>       [IaREC= 6.00: SMIN=168.62: SMAX=******: SK= .030]
08745>       [InterEventTime=  12.00]
08746> R2007:C00036------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
08747>     ADD HYD               5.0 02:R6           148.64     .819 2007.0720_13:35  172.88  n/a     .000
08748>                     +     5.0 02:SOUTH-4       14.99     .082 2007.0720_11:45  170.87  n/a     .000
08749>                   SUM=    5.0 01:Total        163.63     .899 2007.0720_13:30  172.68  n/a     .000
08750> ================================================================================
08751> ================================================================================
08752> ################################################################################
08753> # CONTINUOUS RAINFALL DATA
08754> ################################################################################
08755> *********************************************************************************
08756> # STORMS
08757> *********************************************************************************
08758> R2007:C00002-----------------------------------------------------------------------------------------
08759>     FINISH
08760> -----------------------------------------------------------------------------------------------------
08761> *****************************************************************************************************
08762>      WARNINGS / ERRORS / NOTES
08763>      -------------------------
08764> R1967:C00002  READ AES DATA
08765> *** WARNING: Requested start date is less than start date in file.
08766> R1967:C00012  CONTINUOUS STANDHYD
08767> *** WARNING: Storage Coefficient is smaller than DT! Use a smaller DT or a larger area.
08768> *** WARNING: Storage Coefficient is smaller than DT! Use a smaller DT or a larger area.
08769> R1969:C00002  READ AES DATA
08770> *** WARNING: Missing rainfall increments were set to 0.
08771> R1969:C00012  CONTINUOUS STANDHYD
08772> *** WARNING: Storage Coefficient is smaller than DT! Use a smaller DT or a larger area.
08773> R1970:C00002  READ AES DATA
08774> *** WARNING: Missing rainfall increments were set to 0.
08775> R1970:C00012  CONTINUOUS STANDHYD
08776> *** WARNING: Storage Coefficient is smaller than DT! Use a smaller DT or a larger area.
08777> *** WARNING: Storage Coefficient is smaller than DT! Use a smaller DT or a larger area.
08778> *** WARNING: Storage Coefficient is smaller than DT! Use a smaller DT or a larger area.
08779> *** WARNING: Storage Coefficient is smaller than DT! Use a smaller DT or a larger area.
08780> R1974:C00002  READ AES DATA
08781> *** WARNING: Missing rainfall increments were set to 0.
08782> R1974:C00012  CONTINUOUS STANDHYD
08783> *** WARNING: Storage Coefficient is smaller than DT! Use a smaller DT or a larger area.
08784> R1975:C00002  READ AES DATA
08785> *** WARNING: Requested start date is less than start date in file.
08786> R1975:C00012  CONTINUOUS STANDHYD
08787> *** WARNING: Storage Coefficient is smaller than DT! Use a smaller DT or a larger area.
08788> R1976:C00002  READ AES DATA
08789> *** WARNING: Missing rainfall increments were set to 0.
08790> R1976:C00012  CONTINUOUS STANDHYD
08791> *** WARNING: Storage Coefficient is smaller than DT! Use a smaller DT or a larger area.
08792> *** NOTE: The pervious area has no runoff.
08793> R1977:C00002  READ AES DATA
08794> *** WARNING: Missing rainfall increments were set to 0.
08795> R1977:C00012  CONTINUOUS STANDHYD
08796> *** WARNING: Storage Coefficient is smaller than DT! Use a smaller DT or a larger area.
08797> R1978:C00002  READ AES DATA
08798> *** WARNING: Missing rainfall increments were set to 0.
08799> R1978:C00012  CONTINUOUS STANDHYD
08800> *** WARNING: Storage Coefficient is smaller than DT! Use a smaller DT or a larger area.
08801> *** WARNING: Storage Coefficient is smaller than DT! Use a smaller DT or a larger area.
08802> R1980:C00002  READ AES DATA
08803> *** WARNING: Missing rainfall increments were set to 0.
08804> R1980:C00012  CONTINUOUS STANDHYD
08805> *** WARNING: Storage Coefficient is smaller than DT! Use a smaller DT or a larger area.
08806> *** NOTE: The pervious area has no runoff.
08807> R1981:C00002  READ AES DATA
08808> *** WARNING: Missing rainfall increments were set to 0.
08809> R1981:C00012  CONTINUOUS STANDHYD
08810> *** WARNING: Storage Coefficient is smaller than DT! Use a smaller DT or a larger area.
08811> R1982:C00002  READ AES DATA
08812> *** WARNING: Missing rainfall increments were set to 0.
08813> R1982:C00012  CONTINUOUS STANDHYD
08814> *** WARNING: Storage Coefficient is smaller than DT! Use a smaller DT or a larger area.
08815> R1983:C00002  READ AES DATA
08816> *** WARNING: Missing rainfall increments were set to 0.
08817> R1983:C00012  CONTINUOUS STANDHYD
08818> *** WARNING: Storage Coefficient is smaller than DT! Use a smaller DT or a larger area.
08819> *** NOTE: The pervious area has no runoff.
08820> R1984:C00002  READ AES DATA
08821> *** WARNING: Requested start date is less than start date in file.
08822> *** WARNING: Missing rainfall increments were set to 0.
08823> R1984:C00012  CONTINUOUS STANDHYD
08824> *** WARNING: Storage Coefficient is smaller than DT! Use a smaller DT or a larger area.
08825> R1985:C00002  READ AES DATA
08826> *** WARNING: Missing rainfall increments were set to 0.
08827> R1985:C00012  CONTINUOUS STANDHYD
08828> *** WARNING: Storage Coefficient is smaller than DT! Use a smaller DT or a larger area.
08829> R1986:C00002  READ AES DATA
08830> *** WARNING: Missing rainfall increments were set to 0.
08831> R1986:C00012  CONTINUOUS STANDHYD
08832> *** WARNING: Storage Coefficient is smaller than DT! Use a smaller DT or a larger area.
08833> R1987:C00002  READ AES DATA
08834> *** WARNING: Missing rainfall increments were set to 0.
08835> R1987:C00012  CONTINUOUS STANDHYD
08836> *** WARNING: Storage Coefficient is smaller than DT! Use a smaller DT or a larger area.
08837> R1988:C00002  READ AES DATA
08838> *** WARNING: Missing rainfall increments were set to 0.
08839> R1988:C00012  CONTINUOUS STANDHYD
08840> *** WARNING: Storage Coefficient is smaller than DT! Use a smaller DT or a larger area.
08841> R1989:C00002  READ AES DATA
08842> *** WARNING: Missing rainfall increments were set to 0.
08843> R1989:C00012  CONTINUOUS STANDHYD
08844> *** WARNING: Storage Coefficient is smaller than DT! Use a smaller DT or a larger area.
08845> *** WARNING: Storage Coefficient is smaller than DT! Use a smaller DT or a larger area.
08846> R1991:C00002  READ AES DATA
08847> *** WARNING: Missing rainfall increments were set to 0.
08848> R1991:C00012  CONTINUOUS STANDHYD
08849> *** WARNING: Storage Coefficient is smaller than DT! Use a smaller DT or a larger area.
08850> *** WARNING: Storage Coefficient is smaller than DT! Use a smaller DT or a larger area.
08851> R1993:C00002  READ AES DATA
08852> *** WARNING: Missing rainfall increments were set to 0.
08853> R1993:C00012  CONTINUOUS STANDHYD
08854> *** WARNING: Storage Coefficient is smaller than DT! Use a smaller DT or a larger area.
08855> *** NOTE: The pervious area has no runoff.
08856> R1994:C00002  READ AES DATA
08857> *** WARNING: Missing rainfall increments were set to 0.
08858> R1994:C00012  CONTINUOUS STANDHYD
08859> *** WARNING: Storage Coefficient is smaller than DT! Use a smaller DT or a larger area.
08860> R1995:C00002  READ AES DATA
08861> *** WARNING: Missing rainfall increments were set to 0.
08862> R1995:C00012  CONTINUOUS STANDHYD
08863> *** WARNING: Storage Coefficient is smaller than DT! Use a smaller DT or a larger area.
08864> R1996:C00002  READ AES DATA
08865> *** WARNING: Requested start date is less than start date in file.
08866> *** WARNING: Missing rainfall increments were set to 0.
08867> R1996:C00012  CONTINUOUS STANDHYD
08868> *** WARNING: Storage Coefficient is smaller than DT! Use a smaller DT or a larger area.
08869> R1997:C00002  READ AES DATA
08870> *** WARNING: Missing rainfall increments were set to 0.
08871> R1997:C00012  CONTINUOUS STANDHYD
08872> *** WARNING: Storage Coefficient is smaller than DT! Use a smaller DT or a larger area.
08873> *** NOTE: The pervious area has no runoff.
08874> R1998:C00002  READ AES DATA
08875> *** WARNING: Requested start date is less than start date in file.
08876> *** WARNING: Missing rainfall increments were set to 0.
08877> R1998:C00012  CONTINUOUS STANDHYD
08878> *** WARNING: Storage Coefficient is smaller than DT! Use a smaller DT or a larger area.
08879> R1999:C00002  READ AES DATA
08880> *** WARNING: Requested start date is less than start date in file.
08881> *** WARNING: Missing rainfall increments were set to 0.
08882> R1999:C00012  CONTINUOUS STANDHYD
08883> *** WARNING: Storage Coefficient is smaller than DT! Use a smaller DT or a larger area.
08884> R2000:C00002  READ AES DATA
08885> *** WARNING: Missing rainfall increments were set to 0.
08886> R2000:C00012  CONTINUOUS STANDHYD
08887> *** WARNING: Storage Coefficient is smaller than DT! Use a smaller DT or a larger area.
08888> R2002:C00002  READ AES DATA
08889> *** WARNING: Requested start date is less than start date in file.
08890> *** WARNING: Missing rainfall increments were set to 0.
08891> R2002:C00012  CONTINUOUS STANDHYD
08892> *** WARNING: Storage Coefficient is smaller than DT! Use a smaller DT or a larger area.
08893> R2003:C00002  READ AES DATA
08894> *** WARNING: Requested start date is less than start date in file.
08895> *** WARNING: Missing rainfall increments were set to 0.
08896> R2003:C00012  CONTINUOUS STANDHYD
08897> *** WARNING: Storage Coefficient is smaller than DT! Use a smaller DT or a larger area.
08898> R2004:C00002  READ AES DATA
08899> *** WARNING: Requested start date is less than start date in file.
08900> *** WARNING: Missing rainfall increments were set to 0.
08901> R2004:C00012  CONTINUOUS STANDHYD
08902> *** WARNING: Storage Coefficient is smaller than DT! Use a smaller DT or a larger area.
08903> R2006:C00002  READ AES DATA
08904> *** WARNING: Requested start date is less than start date in file.
08905> *** WARNING: Missing rainfall increments were set to 0.
08906> R2006:C00012  CONTINUOUS STANDHYD
08907> *** WARNING: Storage Coefficient is smaller than DT! Use a smaller DT or a larger area.
08908> R2007:C00002  READ AES DATA
08909> *** WARNING: Missing rainfall increments were set to 0.
08910> R2007:C00012  CONTINUOUS STANDHYD
08911> *** WARNING: Storage Coefficient is smaller than DT! Use a smaller DT or a larger area.
08912>    Simulation ended on 2024-07-31     at 20:04:18
08913> ================================================================================================
08914>
```

JFSA
WATER RESOURCES AND ENVIRONMENTAL CONSULTANTS

Ottawa. ON
Paris. ON
Gatineau. QC
Montréal. QC
Québec. QC

Appendix D

Oil and Grit Separators

Detailed Stormceptor Sizing Report – WS-1-39

Project Information & Location			
Project Name	6160 Thunder Rd.	**Project Number**	200578
City	Ottawa	**State/ Province**	Ontario
Country	Canada	**Date**	5/17/2023
Designer Information		**EOR Information (optional)**	
Name	Brandon O'Leary	**Name**	Virginia Johnson
Company	Rinker	**Company**	LRL Associates Ltd.
Phone #	905-630-0359	**Phone #**	613-915-9503
Email	brandon.oleary@rinkerpipe.com	**Email**	vjohnson@lrl.ca

Stormwater Treatment Recommendation

The recommended Stormceptor Model(s) which achieve or exceed the user defined water quality objective for each site within the project are listed in the below Sizing Summary table.

Site Name	WS-1-39
Recommended Stormceptor Model	EFO6
TSS Removal (%) Provided	83
Particle Size Distribution (PSD)	Fine Distribution
Rainfall Station	OTTAWA MACDONALD-CARTIER INT'L A

The recommended Stormceptor model achieves the water quality objectives based on the selected inputs, historical rainfall records and selected particle size distribution.

EFO Sizing Summary			
EFO Model	**% TSS Removal Provided**	**% Runoff Volume Captured Provided**	**Standard EFO Hydrocarbon Storage Capacity**
EFO4	72	88	265 L (70 gal)
EFO6	83	99	610 L (160 gal)
EFO8	88	99	1070 L (280 gal)
EFO10	91	99	1670 L (440 gal)
EFO12	97	99	2475 L (655 gal)
Parallel Units / MAX	Custom	Custom	Custom

For Stormceptor Specifications and Drawings Please Visit:
http://www.imbriumsystems.com/technical-specifications

OVERVIEW

Stormceptor ® EF is a continuation and evolution of the most globally recognized oil-grit separator (OGS) stormwater treatment technology - **Stormceptor ®.** Also known as a hydrodynamic separator, the enhanced flow Stormceptor EF is a high performing oil-grit separator that effectively removes a wide variety of pollutants from stormwater and snowmelt runoff at higher flow rates as compared to the original Stormceptor. Stormceptor EF captures and retains sediment (TSS), free oils, gross pollutants and other pollutants that attach to particles, such as nutrients and metals. Stormceptor EF's patent-pending treatment and scour prevention technology and internal bypass ensures sediment is retained during all rainfall events.

Design Methodology

Stormceptor is sized using PCSWMM for Stormceptor, a continuous simulation model based on US EPA SWMM. The program calculates hydrology using local historical rainfall data and specified site parameters. With US EPA SWMM's precision, every Stormceptor unit is designed to achieve a defined water quality objective. The TSS removal data presented follows US EPA guidelines to reduce the average annual TSS load. The Stormceptor's unit process for TSS removal is settling. The settling model calculates TSS removal by analyzing:

- Site parameters
- Continuous historical rainfall data, including duration, distribution, peaks & inter-event dry periods
- Particle size distribution, and associated settling velocities (Stokes Law, corrected for drag)
- TSS load
- Detention time of the system

Hydrology Analysis
PCSWMM for Stormceptor calculates annual hydrology with the US EPA SWMM and local continuous historical rainfall data. Performance calculations of Stormceptor are based on the average annual removal of TSS for the selected site parameters. The Stormceptor is engineered to capture sediment particles by treating the required average annual runoff volume, ensuring positive removal efficiency is maintained during each rainfall event, and preventing negative removal efficiency (scour). Smaller recurring storms account for the majority of rainfall events and average annual runoff volume, as observed in the historical rainfall data analyses presented in this section.

Rainfall Station			
State/Province	Ontario	**Total Number of Rainfall Events**	4093
Rainfall Station Name	OTTAWA MACDONALD-CARTIER INT'L A	**Total Rainfall (mm)**	20978.1
Station ID #	6000	**Average Annual Rainfall (mm)**	567.0
Coordinates	45°19'N, 75°40'W	**Total Evaporation (mm)**	1657.0
Elevation (ft)	370	**Total Infiltration (mm)**	5442.4
Years of Rainfall Data	37	**Total Rainfall that is Runoff (mm)**	13878.7

Notes
• Stormceptor performance estimates are based on simulations using PCSWMM for Stormceptor, which uses the EPA Rainfall and Runoff modules. • Design estimates listed are only representative of specific project requirements based on total suspended solids (TSS) removal defined by the selected PSD, and based on stable site conditions only, after construction is completed. • For submerged applications or sites specific to spill control, please contact your local Stormceptor representative for further design assistance.

ONLINE APPLICATION

Stormceptor EF's internal bypass and patent-pending scour prevention technology has demonstrated very effective retention of pollutants in third-party testing and verification following the Canadian ETV's **Procedure for Laboratory Testing of Oil-Grit Separators.** Sediment scour prevention demonstrated an effluent concentration of less than 10 mg/L for sediment particles ranging from 1 to 1,000 microns, even during peak influent flow rates associated with infrequent high intensity storm events. While Stormceptor EF will capture oil, only the Stormceptor EFO configuration has been third-party tested and verified to retain greater than 99% of captured oil. Based on these verified performance attributes, the most efficient and widely accepted application of Stormceptor EF is an online configuration, which allows all upstream conveyance flows to enter and exit the unit. The online application eliminates the need for costly additional bypass structures, piping and installation expense.

FLOW ENTRANCE OPTIONS

Single Inlet Pipe – A common design which includes one inlet pipe and one outlet pipe. A 90-degree (maximum) bend is also accepted with this configuration.

Inlet Grate – Allows surface runoff to enter the unit from grade. The inlet grate option can also be used in conjunction with one inlet pipe or multiple inlet pipes. A removable flow deflector is added in the Stormceptor EF4/EFO4.

Maximum Pipe Diameter		
Model	Inlet (in/mm)	Outlet (in/mm)
EF4 / EFO4	24 / 610	24 / 610
EF6 / EFO6	36 / 915	36 / 915
EF8 / EFO8	48 / 1220	48 / 1220
EF10 / EFO10	72 / 1828	72 / 1828
EF12 / EFO12	72 / 1828	72 / 1828

Multiple Inlet Pipe – Allows for multiple inlet pipes of various diameters to enter the unit.

Maximum Pipe Diameter		
Model	Inlet (in/mm)	Outlet (in/mm)
EF4 / EFO4	18 / 457	24 / 610
EF6 / EFO6	30 / 762	36 / 915
EF8 / EFO8	42 / 1067	48 / 1220
EF10 / EFO10	60 / 1524	72 / 1828
EF12 / EFO12	60 / 1524	72 / 1828

Drainage Area	
Total Area (ha)	10.00
Imperviousness %	74.00

Up Stream Storage	
Storage (ha-m)	Discharge (cms)
0.0000	0.000
0.2061	0.022
0.3279	0.026
0.5930	0.032

Up Stream Flow Diversion	
Max. Flow to Stormceptor (cms)	

Water Quality Objective	
TSS Removal (%)	80.0
Runoff Volume Capture (%)	90.00
Oil Spill Capture Volume (L)	
Peak Conveyed Flow Rate (L/s)	32.00
Water Quality Flow Rate (L/s)	20.00

Design Details	
Stormceptor Inlet Invert Elev (m)	
Stormceptor Outlet Invert Elev (m)	
Stormceptor Rim Elev (m)	
Normal Water Level Elevation (m)	
Pipe Diameter (mm)	
Pipe Material	
Multiple Inlets (Y/N)	No
Grate Inlet (Y/N)	No

Particle Size Distribution (PSD)

Removing the smallest fraction of particulates from runoff ensures the majority of pollutants, such as metals, hydrocarbons and nutrients are captured. The table below identifies the Particle Size Distribution (PSD) that was selected to define TSS removal for the Stormceptor design.

Fine Distribution		
Particle Diameter (microns)	Distribution %	Specific Gravity
20.0	20.0	1.30
60.0	20.0	1.80
150.0	20.0	2.20
400.0	20.0	2.65
2000.0	20.0	2.65

Site Name	WS-1-39

Site Details

Drainage Area	
Total Area (ha)	10.00
Imperviousness %	74.00
Oil Spill Capture Volume (L)	

Infiltration Parameters	
Horton's equation is used to estimate infiltration	
Max. Infiltration Rate (mm/hr)	61.98
Min. Infiltration Rate (mm/hr)	10.16
Decay Rate (1/sec)	0.00055
Regeneration Rate (1/sec)	0.01

Surface Characteristics	
Width (m)	632.00
Slope %	2
Impervious Depression Storage (mm)	0.508
Pervious Depression Storage (mm)	5.08
Impervious Manning's n	0.015
Pervious Manning's n	0.25

Evaporation	
Daily Evaporation Rate (mm/day)	2.54

Dry Weather Flow	
Dry Weather Flow (L/s)	0

Maintenance Frequency	
Maintenance Frequency (months) >	12

Winter Months	
Winter Infiltration	0

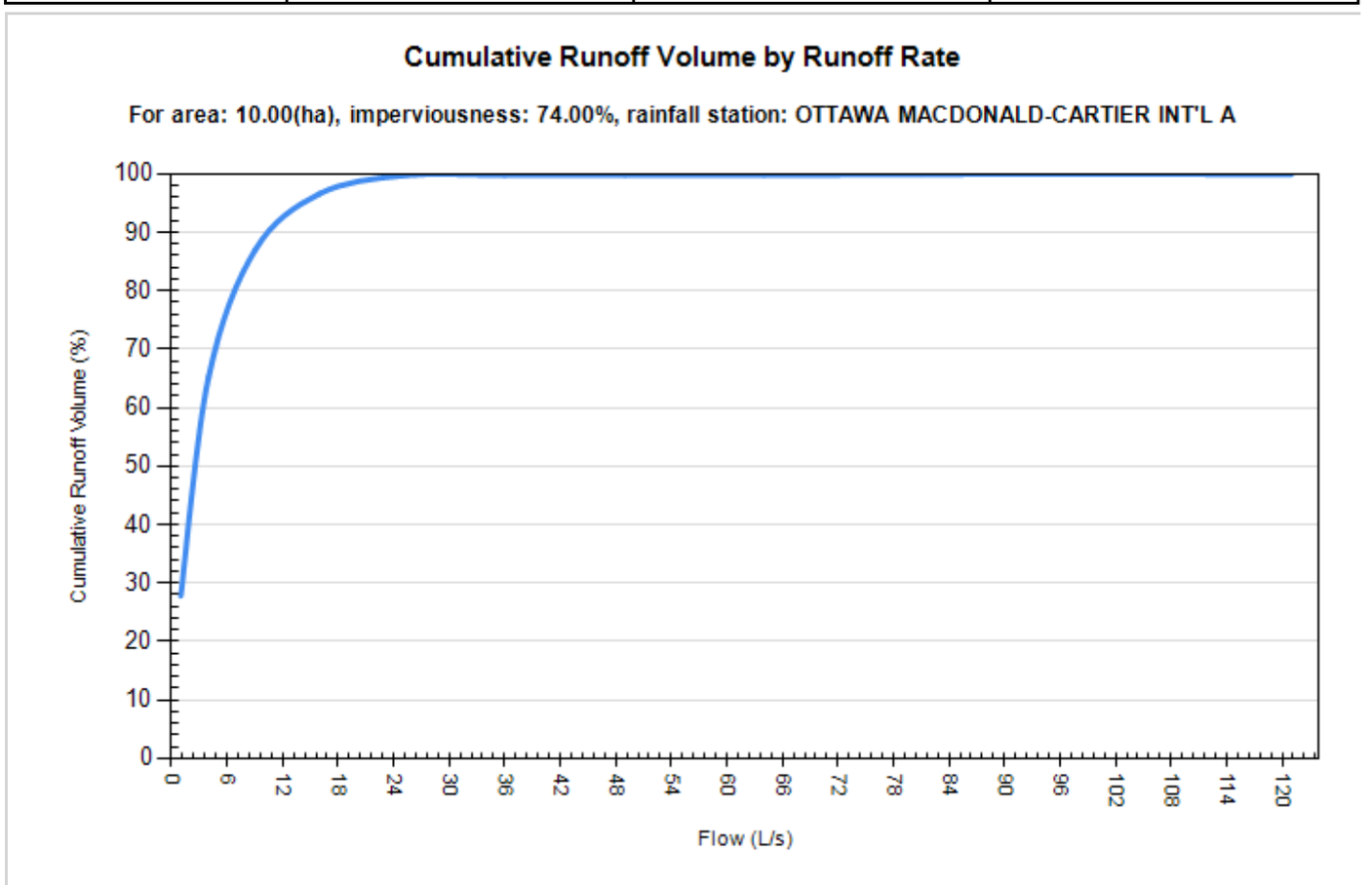
TSS Loading Parameters

TSS Loading Function	Build Up/ Wash-off

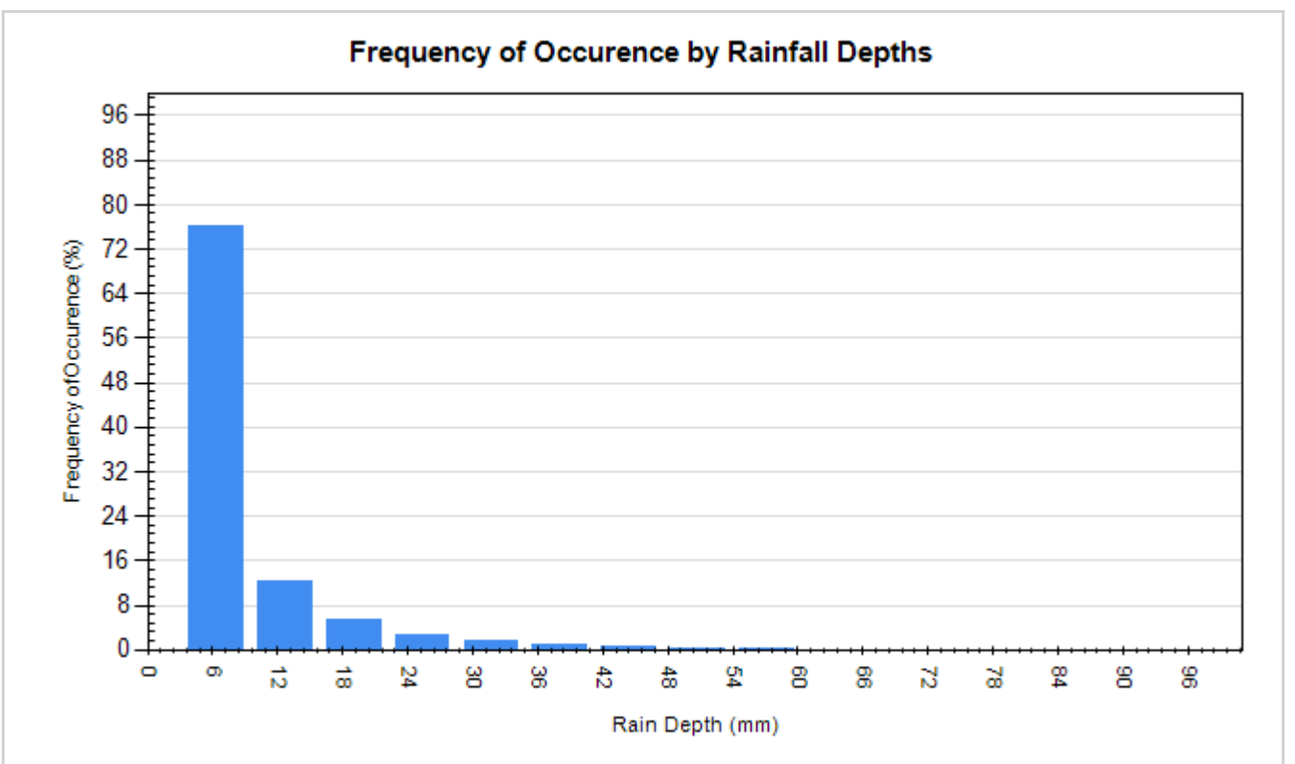
Buildup/Wash-off Parameters	
Target Event Mean Conc. (EMC) mg/L	125
Exponential Buildup Power	0.40
Exponential Washoff Exponent	0.20

TSS Availability Parameters	
Availability Constant A	0.057
Availability Factor B	0.04
Availability Exponent C	1.10
Min. Particle Size Affected by Availability (micron)	400

Cumulative Runoff Volume by Runoff Rate			
Runoff Rate (L/s)	**Runoff Volume (m³)**	**Volume Over (m³)**	**Cumulative Runoff Volume (%)**
1	386840	1004826	27.8
4	906169	490108	65.2
9	1208098	182261	86.9
16	1343630	47577	96.6
25	1385946	4655	99.7
36	1388007	2542	99.8
49	1388159	2390	99.8
64	1388327	2221	99.8
81	1388509	2034	99.9
100	1388707	1836	99.9
121	1388907	1634	99.9



Rainfall Event Analysis				
Rainfall Depth (mm)	**No. of Events**	**Percentage of Total Events (%)**	**Total Volume (mm)**	**Percentage of Annual Volume (%)**
6.35	3113	76.1	5230	24.9
12.70	501	12.2	4497	21.4
19.05	225	5.5	3469	16.5
25.40	105	2.6	2317	11.0
31.75	62	1.5	1765	8.4
38.10	35	0.9	1206	5.8
44.45	28	0.7	1163	5.5
50.80	12	0.3	557	2.7
57.15	7	0.2	378	1.8
63.50	1	0.0	63	0.3
69.85	1	0.0	64	0.3
76.20	1	0.0	76	0.4
82.55	0	0.0	0	0.0
88.90	1	0.0	84	0.4
95.25	0	0.0	0	0.0
101.60	0	0.0	0	0.0



Stormceptor®

Rinker MATERIALS® A QUIKRETE® COMPANY

Stormceptor® EF Sizing Report

Imbrium® Systems
ESTIMATED NET ANNUAL SEDIMENT (TSS) LOAD REDUCTION

08/13/2024

Province:	Ontario
City:	Ottawa
Nearest Rainfall Station:	OTTAWA CDA RCS
Climate Station Id:	6105978
Years of Rainfall Data:	20

Site Name:	WS-40

Drainage Area (ha):	1.23
Runoff Coefficient 'c':	0.74

Particle Size Distribution:	Fine
Target TSS Removal (%):	80.0
Required Water Quality Runoff Volume Capture (%):	90.0

Oil / Fuel Spill Risk Site?	Yes
Upstream Flow Control?	Yes
Upstream Orifice Control Flow Rate to Stormceptor (L/s):	4
Peak Conveyance (maximum) Flow Rate (L/s):	4

Project Name:	6160 Thunder Rd.
Project Number:	200578
Designer Name:	Brandon O'Leary
Designer Company:	Rinker
Designer Email:	brandon.oleary@rinkerpipe.com
Designer Phone:	905-630-0359
EOR Name:	Virginia Johnson
EOR Company:	LRL Associates Ltd.
EOR Email:	vjohnson@lrl.ca
EOR Phone:	613-915-9503

Net Annual Sediment (TSS) Load Reduction Sizing Summary

Stormceptor Model	TSS Removal Provided (%)
EFO4	94
EFO6	100
EFO8	100
EFO10	100
EFO12	100

Recommended Stormceptor EFO Model: EFO4

Estimated Net Annual Sediment (TSS) Load Reduction (%): 94

Water Quality Runoff Volume Capture (%): > 90

imbrium

THIRD-PARTY TESTING AND VERIFICATION

►**Stormceptor® EF and Stormceptor® EFO** are the latest evolutions in the Stormceptor® oil-grit separator (OGS) technology series, and are designed to remove a wide variety of pollutants from stormwater and snowmelt runoff. These technologies have been third-party tested in accordance with the Canadian ETV **Procedure for Laboratory Testing of Oil-Grit Separators** and performance has been third-party verified in accordance with the **ISO 14034 Environmental Technology Verification (ETV)** protocol.

PERFORMANCE

►**Stormceptor® EF and EFO** remove stormwater pollutants through gravity separation and floatation, and feature a patent-pending design that generates positive removal of total suspended solids (TSS) throughout each storm event, including high-intensity storms. Captured pollutants include sediment, free oils, and sediment-bound pollutants such as nutrients, heavy metals, and petroleum hydrocarbons. Stormceptor is sized to remove a high level of TSS from the frequent rainfall events that contribute the vast majority of annual runoff volume and pollutant load. The technology incorporates an internal bypass to convey excessive stormwater flows from high-intensity storms through the device without resuspension and washout (scour) of previously captured pollutants. Proper routine maintenance ensures high pollutant removal performance and protection of downstream waterways.

PARTICLE SIZE DISTRIBUTION (PSD)

►The **Canadian ETV PSD** shown in the table below was used, or in part, for this sizing. This is the identical PSD that is referenced in the Canadian ETV ***Procedure for Laboratory Testing of Oil-Grit Separators*** for both sediment removal testing and scour testing. The Canadian ETV PSD contains a wide range of particle sizes in the sand and silt fractions, and is considered reasonably representative of the particle size fractions found in typical urban stormwater runoff.

Particle Size (µm)	Percent Less Than	Particle Size Fraction (µm)	Percent
1000	100	500-1000	5
500	95	250-500	5
250	90	150-250	15
150	75	100-150	15
100	60	75-100	10
75	50	50-75	5
50	45	20-50	10
20	35	8-20	15
8	20	5-8	10
5	10	2-5	5
2	5	<2	5

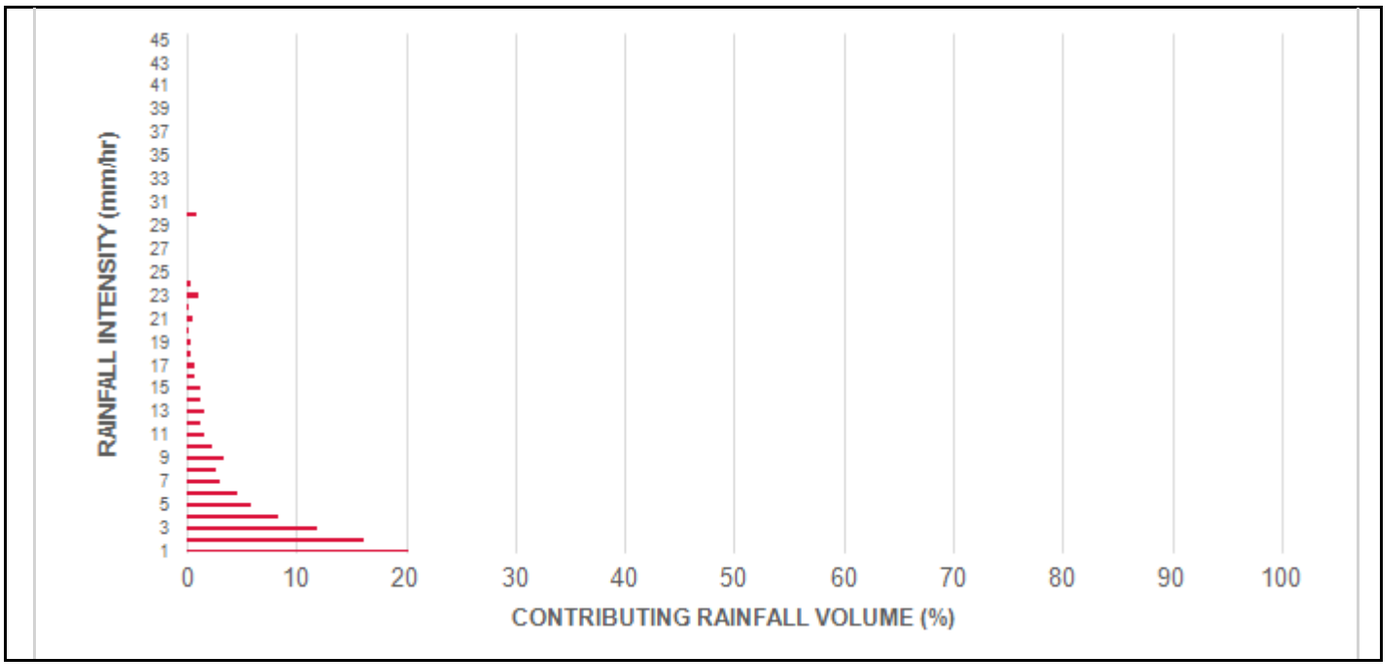
Stormceptor® EF Sizing Report

Upstream Flow Controlled Results

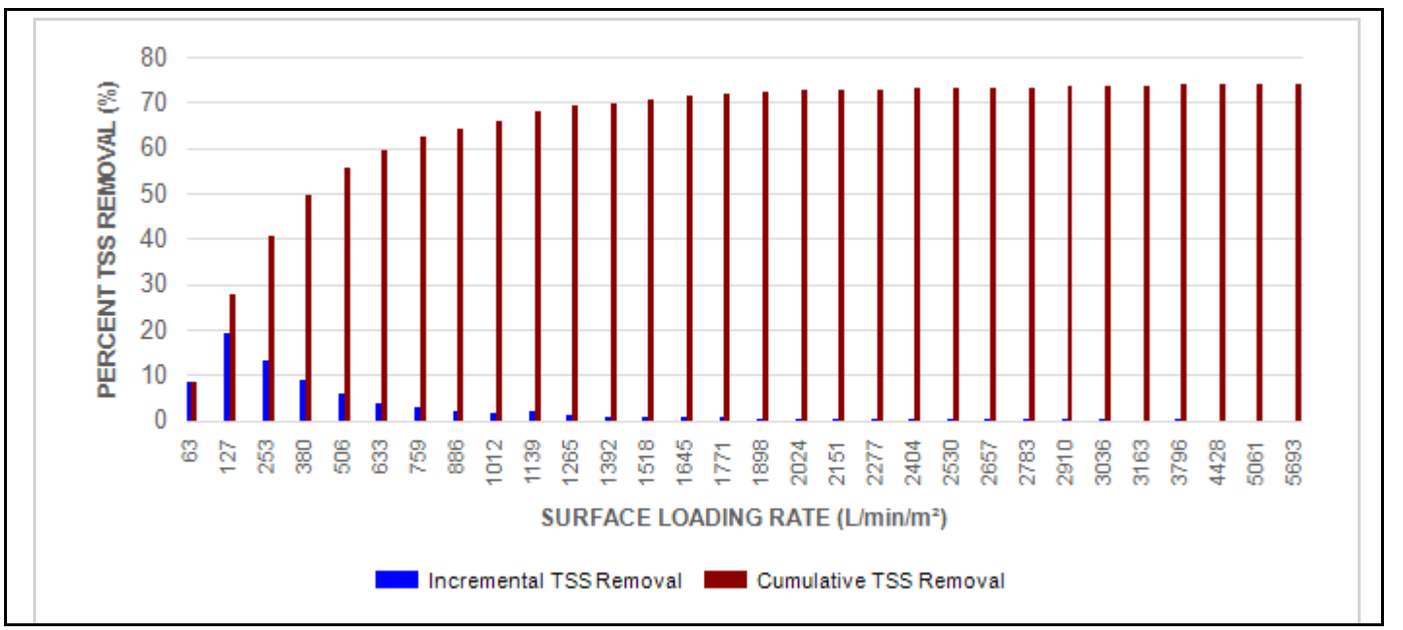
Rainfall Intensity (mm / hr)	Percent Rainfall Volume (%)	Cumulative Rainfall Volume (%)	Flow Rate (L/s)	Flow Rate (L/min)	Surface Loading Rate (L/min/m²)	Removal Efficiency (%)	Incremental Removal (%)	Cumulative Removal (%)
0.50	8.6	8.6	1.27	76.0	63.0	100	8.6	8.6
1.00	91.4	100.0	2.53	152.0	127.0	93	85.3	93.9
2.00	0.0	100.0	4.00	240.0	200.0	83	0.0	93.9
3.00	0.0	100.0	4.00	240.0	200.0	83	0.0	93.9
4.00	0.0	100.0	4.00	240.0	200.0	83	0.0	93.9
5.00	0.0	100.0	4.00	240.0	200.0	83	0.0	93.9
6.00	0.0	100.0	4.00	240.0	200.0	83	0.0	93.9
7.00	0.0	100.0	4.00	240.0	200.0	83	0.0	93.9
8.00	0.0	100.0	4.00	240.0	200.0	83	0.0	93.9
9.00	0.0	100.0	4.00	240.0	200.0	83	0.0	93.9
10.00	0.0	100.0	4.00	240.0	200.0	83	0.0	93.9
11.00	0.0	100.0	4.00	240.0	200.0	83	0.0	93.9
12.00	0.0	100.0	4.00	240.0	200.0	83	0.0	93.9
13.00	0.0	100.0	4.00	240.0	200.0	83	0.0	93.9
14.00	0.0	100.0	4.00	240.0	200.0	83	0.0	93.9
15.00	0.0	100.0	4.00	240.0	200.0	83	0.0	93.9
16.00	0.0	100.0	4.00	240.0	200.0	83	0.0	93.9
17.00	0.0	100.0	4.00	240.0	200.0	83	0.0	93.9
18.00	0.0	100.0	4.00	240.0	200.0	83	0.0	93.9
19.00	0.0	100.0	4.00	240.0	200.0	83	0.0	93.9
20.00	0.0	100.0	4.00	240.0	200.0	83	0.0	93.9
21.00	0.0	100.0	4.00	240.0	200.0	83	0.0	93.9
22.00	0.0	100.0	4.00	240.0	200.0	83	0.0	93.9
23.00	0.0	100.0	4.00	240.0	200.0	83	0.0	93.9
24.00	0.0	100.0	4.00	240.0	200.0	83	0.0	93.9
25.00	0.0	100.0	4.00	240.0	200.0	83	0.0	93.9
30.00	0.0	100.0	4.00	240.0	200.0	83	0.0	93.9
35.00	0.0	100.0	4.00	240.0	200.0	83	0.0	93.9
40.00	0.0	100.0	4.00	240.0	200.0	83	0.0	93.9
45.00	0.0	100.0	4.00	240.0	200.0	83	0.0	93.9
Estimated Net Annual Sediment (TSS) Load Reduction =								**94 %**

Climate Station ID: 6105978 *Years of Rainfall Data*: 20

RAINFALL DATA FROM OTTAWA CDA RCS RAINFALL STATION



INCREMENTAL AND CUMULATIVE TSS REMOVAL
FOR THE RECOMMENDED STORMCEPTOR® MODEL



imbrium

Maximum Pipe Diameter / Peak Conveyance

Stormceptor EF / EFO	Model Diameter		Min Angle Inlet / Outlet Pipes	Max Inlet Pipe Diameter		Max Outlet Pipe Diameter		Peak Conveyance Flow Rate	
	(m)	(ft)		(mm)	(in)	(mm)	(in)	(L/s)	(cfs)
EF4 / EFO4	1.2	4	90	609	24	609	24	425	15
EF6 / EFO6	1.8	6	90	914	36	914	36	990	35
EF8 / EFO8	2.4	8	90	1219	48	1219	48	1700	60
EF10 / EFO10	3.0	10	90	1828	72	1828	72	2830	100
EF12 / EFO12	3.6	12	90	1828	72	1828	72	2830	100

SCOUR PREVENTION AND ONLINE CONFIGURATION

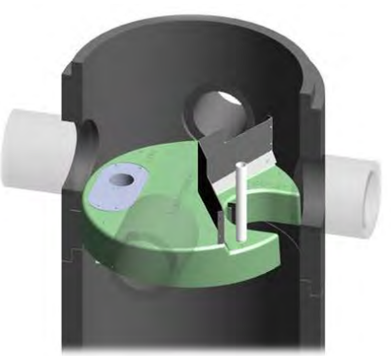
►**Stormceptor® EF and EFO** feature an internal bypass and superior scour prevention technology that have been demonstrated in third-party testing according to the scour testing provisions of the Canadian ETV **Procedure for Laboratory Testing of Oil-Grit Separators**, and the exceptional scour test performance has been third-party verified in accordance with the ISO 14034 ETV protocol. As a result, Stormceptor EF and EFO are approved for online installation, eliminating the need for costly additional bypass structures, piping, and installation expense.

DESIGN FLEXIBILITY

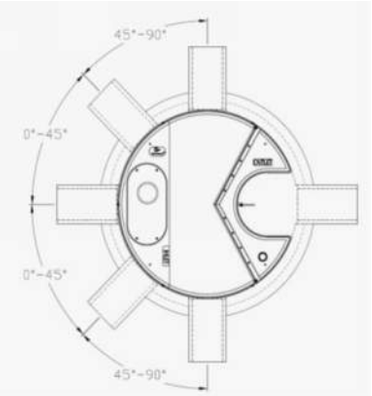
►**Stormceptor® EF** and **EFO** offers design flexibility in one simplified platform, accepting stormwater flow from a single inlet pipe or multiple inlet pipes, and/or surface runoff through an inlet grate. The device can also serve as a junction structure, accommodate a 90-degree inlet-to-outlet bend angle, and can be modified to ensure performance in submerged conditions.

OIL CAPTURE AND RETENTION

►While Stormceptor® EF will capture and retain oil from dry weather spills and low intensity runoff, **Stormceptor® EFO** has demonstrated superior oil capture and greater than 99% oil retention in third-party testing according to the light liquid re-entrainment testing provisions of the Canadian ETV **Procedure for Laboratory Testing of Oil-Grit Separators**. Stormceptor EFO is recommended for sites where oil capture and retention is a requirement.



imbrium®



INLET-TO-OUTLET DROP

Elevation differential between inlet and outlet pipe inverts is dictated by the angle at which the inlet pipe(s) enters the unit.
0° - 45° : The inlet pipe is 1-inch (25mm) higher than the outlet pipe.
45° - 90° : The inlet pipe is 2-inches (50mm) higher than the outlet pipe.

HEAD LOSS

The head loss through Stormceptor EF is similar to that of a 60-degree bend structure. The applicable K value for calculating minor losses through the unit is 1.1. For submerged conditions the applicable K value is 3.0.

Pollutant Capacity

Stormceptor EF / EFO	Model Diameter		Depth (Outlet Pipe Invert to Sump Floor)		Oil Volume		Recommended Sediment Maintenance Depth *		Maximum Sediment Volume *		Maximum Sediment Mass **	
	(m)	(ft)	(m)	(ft)	(L)	(Gal)	(mm)	(in)	(L)	(ft^3)	(kg)	(lb)
EF4 / EFO4	1.2	4	1.52	5.0	265	70	203	8	1190	42	1904	5250
EF6 / EFO6	1.8	6	1.93	6.3	610	160	305	12	3470	123	5552	15375
EF8 / EFO8	2.4	8	2.59	8.5	1070	280	610	24	8780	310	14048	38750
EF10 / EFO10	3.0	10	3.25	10.7	1670	440	610	24	17790	628	28464	78500
EF12 / EFO12	3.6	12	3.89	12.8	2475	655	610	24	31220	1103	49952	137875

*Increased sump depth may be added to increase sediment storage capacity
** Average density of wet packed sediment in sump = 1.6 kg/L (100 lb/ft^3)

Feature	Benefit	Feature Appeals To
Patent-pending enhanced flow treatment and scour prevention technology	Superior, verified third-party performance	Regulator, Specifying & Design Engineer
Third-party verified light liquid capture and retention for EFO version	Proven performance for fuel/oil hotspot locations	Regulator, Specifying & Design Engineer, Site Owner
Functions as bend, junction or inlet structure	Design flexibility	Specifying & Design Engineer
Minimal drop between inlet and outlet	Site installation ease	Contractor
Large diameter outlet riser for inspection and maintenance	Easy maintenance access from grade	Maintenance Contractor & Site Owner

STANDARD STORMCEPTOR EF/EFO DRAWINGS

For standard details, please visit http://www.imbriumsystems.com/stormwater-treatment-solutions/stormceptor-ef

STANDARD STORMCEPTOR EF/EFO SPECIFICATION

For specifications, please visit http://www.imbriumsystems.com/stormwater-treatment-solutions/stormceptor-ef

imbrium

STANDARD PERFORMANCE SPECIFICATION FOR "OIL GRIT SEPARATOR" (OGS) STORMWATER QUALITY TREATMENT DEVICE

PART 1 – GENERAL

1.1 WORK INCLUDED

This section specifies requirements for selecting, sizing, and designing an underground Oil Grit Separator (OGS) device for stormwater quality treatment, with third-party testing results and a Statement of Verification in accordance with ISO 14034 Environmental Management – Environmental Technology Verification (ETV).

1.2 REFERENCE STANDARDS & PROCEDURES

ISO 14034:2016 Environmental management – Environmental technology verification (ETV)

Canadian Environmental Technology Verification (ETV) Program's **Procedure for Laboratory Testing of Oil-Grit Separators**

1.3 SUBMITTALS

1.3.1 All submittals, including sizing reports & shop drawings, shall be submitted upon request with each order to the contractor then forwarded to the Engineer of Record for review and acceptance. Shop drawings shall detail all OGS components, elevations, and sequence of construction.

1.3.2 Alternative devices shall have features identical to or greater than the specified device, including: treatment chamber diameter, treatment chamber wet volume, sediment storage volume, and oil storage volume.

1.3.3 Unless directed otherwise by the Engineer of Record, OGS stormwater quality treatment product substitutions or alternatives submitted within ten days prior to project bid shall not be accepted. All alternatives or substitutions submitted shall be signed and sealed by a local registered Professional Engineer, based on the exact same criteria detailed in Section 3, in entirety, subject to review and approval by the Engineer of Record.

PART 2 – PRODUCTS

2.1 OGS POLLUTANT STORAGE

The OGS device shall include a sump for sediment storage, and a protected volume for the capture and storage of petroleum hydrocarbons and buoyant gross pollutants. The minimum sediment & petroleum hydrocarbon storage capacity shall be as follows:

2.1.1	4 ft (1219 mm) Diameter OGS Units:	1.19 m^3 sediment / 265 L oil
	6 ft (1829 mm) Diameter OGS Units:	3.48 m^3 sediment / 609 L oil
	8 ft (2438 mm) Diameter OGS Units:	8.78 m^3 sediment / 1,071 L oil
	10 ft (3048 mm) Diameter OGS Units:	17.78 m^3 sediment / 1,673 L oil
	12 ft (3657 mm) Diameter OGS Units:	31.23 m^3 sediment / 2,476 L oil

PART 3 – PERFORMANCE & DESIGN

3.1 GENERAL

The OGS stormwater quality treatment device shall be verified in accordance with ISO 14034:2016 Environmental management – Environmental technology verification (ETV). The OGS stormwater quality treatment device shall remove oil, sediment and gross pollutants from stormwater runoff during frequent wet weather events, and retain these pollutants during less frequent high flow wet weather events below the insert within the OGS for later removal during maintenance. The Manufacturer shall have at least ten (10) years of local experience, history and success in engineering design, manufacturing and production and supply of OGS stormwater quality treatment device systems, acceptable to the Engineer of Record.

3.2 SIZING METHODOLOGY

The OGS device shall be engineered, designed and sized to provide stormwater quality treatment based on treating a minimum of 90 percent of the average annual runoff volume and a minimum removal of an annual average 60% of the sediment (TSS) load based on the Particle Size Distribution (PSD) specified in the sizing report for the specified device. Sizing of the OGS shall be determined by use of a minimum ten (10) years of local historical rainfall data provided by Environment Canada. Sizing shall also be determined by use of the sediment removal performance data derived from the ISO 14034 ETV third-party verified laboratory testing data from testing conducted in accordance with the Canadian ETV protocol Procedure for Laboratory Testing of Oil-Grit Separators, as follows:

3.2.1 Sediment removal efficiency for a given surface loading rate and its associated flow rate shall be based on sediment removal efficiency demonstrated at the seven (7) tested surface loading rates specified in the protocol, ranging 40 L/min/m^2 to 1400 L/min/m^2, and as stated in the ISO 14034 ETV Verification Statement for the OGS device.

3.2.2 Sediment removal efficiency for surface loading rates between 40 L/min/m^2 and 1400 L/min/m^2 shall be based on linear interpolation of data between consecutive tested surface loading rates.

3.2.3 Sediment removal efficiency for surface loading rates less than the lowest tested surface loading rate of 40 L/min/m^2 shall be assumed to be identical to the sediment removal efficiency at 40 L/min/m^2. No extrapolation shall be allowed that results in a sediment removal efficiency that is greater than that demonstrated at 40 L/min/m^2.

3.2.4 Sediment removal efficiency for surface loading rates greater than the highest tested surface loading rate of 1400 L/min/m^2 shall assume zero sediment removal for the portion of flow that exceeds 1400 L/min/m^2, and shall be calculated using a simple proportioning formula, with 1400 L/min/m^2 in the numerator and the higher surface loading rate in the denominator, and multiplying the resulting fraction times the sediment removal efficiency at 1400 L/min/m^2.

The OGS device shall also have sufficient annual sediment storage capacity as specified and calculated in Section 2.1.

3.3 CANADIAN ETV or ISO 14034 ETV VERIFICATION OF SCOUR TESTING

The OGS device shall have Canadian ETV or ISO 14034 ETV Verification of third-party scour testing conducted in

accordance with the Canadian ETV Program's **Procedure for Laboratory Testing of Oil-Grit Separators.**

3.3.1 To be acceptable for on-line installation, the OGS device must demonstrate an average scour test effluent concentration less than 10 mg/L at each surface loading rate tested, up to and including 2600 L/min/m^2.

3.4 LIGHT LIQUID RE-ENTRAINMENT SIMULATION TESTING

The OGS device shall have Canadian ETV or ISO 14034 ETV Verification of completed third-party Light Liquid Re-entrainment Simulation Testing in accordance with the Canadian ETV **Program's Procedure for Laboratory Testing of Oil-Grit Separators,** with results reported within the Canadian ETV or ISO 14034 ETV verification. This re-entrainment testing is conducted with the device pre-loaded with low density polyethylene (LDPE) plastic beads as a surrogate for light liquids such as oil and fuel. Testing is conducted on the same OGS unit tested for sediment removal to assess whether light liquids captured after a spill are effectively retained at high flow rates.

3.4.1 For an OGS device to be an acceptable stormwater treatment device on a site where vehicular traffic occurs and the potential for an oil or fuel spill exists, the OGS device must have reported verified performance results of greater than 99% cumulative retention of LDPE plastic beads for the five specified surface loading rates (ranging 200 L/min/m^2 to 2600 L/min/m^2) in accordance with the Light Liquid Re-entrainment Simulation Testing within the Canadian ETV Program's **Procedure for Laboratory Testing of Oil-Grit Separators.** However, an OGS device shall not be allowed if the Light Liquid Re-entrainment Simulation Testing was performed with screening components within the OGS device that are effective at retaining the LDPE plastic beads, but would not be expected to retain light liquids such as oil and fuel.

STANDARD SPECIFICATION FOR "OIL GRIT SEPARATOR" (OGS) STORMWATER QUALITY TREAMENT DEVICE WITH THIRD-PARTY VERIFIED LIGHT LIQUID RE-ENTRAINMENT SIMULATION PERFORMANCE TESTING RESULTS

PART 1 – GENERAL

1.1 WORK INCLUDED

This section specifies requirements for selecting, sizing, designing, maintaining, and constructing an underground Oil Grit Separator (OGS) device for stormwater quality treatment, **specifically an OGS device that has been third-party tested for oil and fuel retention capability using a protocol for light liquid re-entrainment simulation testing, with testing results and a Statement of Verification in accordance with all the provisions of ISO 14034 Environmental Management – Environmental Technology Verification (ETV)**. Work includes supply and installation of concrete bases, precast sections, and the appropriate precast section with OGS internal components correctly installed within the system, watertight sealed to the precast concrete prior to arrival to the project site.

1.2 REFERENCE STANDARDS

1.2.1 For Canadian projects only, the following reference standards apply:

CAN/CSA-A257.4-14: Joints for Circular Concrete Sewer and Culvert Pipe, Manhole Sections, and Fittings Using Rubber Gaskets
CAN/CSA-A257.4-14: Precast Reinforced Circular Concrete Manhole Sections, Catch Basins, and Fittings
CAN/CSA-S6-00: Canadian Highway Bridge Design Code

1.2.2 For ALL projects, the following reference standards apply:

ASTM D-4097: Contact Molded Glass Fiber Reinforced Chemical Resistant Tanks
ASTM C 478: Specification for Precast Reinforced Concrete Manhole Sections
ASTM C 443: Specification for Joints for Concrete Pipe and Manholes, Using Rubber Gaskets
ASTM C 891: Standard Practice for Installation of Underground Precast Concrete Utility Structures
ASTM D2563: Standard Practice for Classification of Visual Defects in Reinforced Plastics

1.3 SHOP DRAWINGS

1.3.1 Shop drawings shall be submitted upon request with each order to the contractor then forwarded to the Engineer of Record for review and acceptance. Shop drawings shall detail the precast concrete components and OGS internal components prior to shipment, including the sequence for installation.

1.3.2 Unless directed otherwise by the Engineer of Record, OGS stormwater quality treatment product substitutions or alternatives submitted within ten days prior to project bid shall not be accepted. All alternatives or substitutions submitted shall be based on the exact same criteria detailed in Section 3, in entirety, subject to review and approval by the Engineer of Record. Any and all changes to project cost estimates, bonding amounts, plan check fees for revision of approved documents, or design impacts due to regulatory requirements as a result of a product substitution shall be coordinated by the Contractor with the Engineer of Record.

1.4 HANDLING AND STORAGE

Prevent damage to materials during storage and handling.

1.4.1 OGS internal components supplied by the Manufacturer for attachment to the precast concrete vessel shall be pre-fabricated, bolted to the precast and watertight sealed to the precast vessel surface prior to site delivery to ensure Manufacturer's internal assembly process and quality control processes are fully adhered to, and to prevent materials damage on site.

1.4.2 Follow all instructions including the sequence for installation in the shop drawings during installation.

PART 2 – PRODUCTS

2.1 GENERAL

2.1.1 The OGS vessel shall be cylindrical and constructed from precast concrete riser and slab components.

2.1.2 The precast concrete OGS internal components shall include a fiberglass insert bolted and watertight sealed inside the precast concrete vessel, prior to site delivery. Primary internal components that are to be anchored and watertight sealed to the precast concrete vessel shall be done so only by the Manufacturer prior to arrival at the job site to ensure product quality.

2.1.3 The OGS shall be allowed to be specified and have the ability to function as a 240-degree bend structure in the stormwater drainage system, or as a junction structure.

2.1.4 The OGS to be specified shall have the capability to accept influent flow from an inlet grate and an inlet pipe.

2.2 PRECAST CONCRETE SECTIONS

All precast concrete components shall be designed and manufactured to meet highway loading conditions per State/Provincial or local requirements.

2.3 GASKETS

Only profile neoprene or nitrile rubber gaskets that are oil resistant shall be accepted. For Canadian projects only, gaskets shall be in accordance to CSA A257.4-14. Mastic sealants, butyl tape/rope or Conseal CS-101 alone are not acceptable gasket materials.

2.4 JOINTS

The concrete joints shall be watertight and meet the design criteria according to ASTM C-990. For projects where joints require gaskets, the concrete joints shall be watertight and oil resistant and meet the design criteria according to ASTM C-443. Mastic sealants or butyl tape/rope alone are not an acceptable alternative.

2.5 FRAMES AND COVERS

Frames and covers shall be manufactured in accordance with State/Provincial or local requirements for inspection and maintenance access purposes. A minimum of one cover, at least 22-inch (560 mm) in diameter, shall be clearly embossed with the OGS manufacturer's product name to properly identify this asset's purpose is for stormwater quality treatment.

2.6 PRECAST CONCRETE

All precast concrete components shall conform to the appropriate CSA or ASTM specifications.

2.7 FIBERGLASS

The fiberglass portion of the OGS device shall be constructed in accordance with ASTM D2563, and in accordance with the PS15-69 manufacturing standard, and shall only be installed, bolted and watertight sealed to the precast concrete by the Manufacturer prior to arrival at the project site to ensure product quality.

2.8 OGS POLLUTANT STORAGE

The OGS device shall include a sump for sediment storage, and a fiberglass insert for the capture and storage of petroleum hydrocarbons and buoyant gross pollutants. The total sediment storage capacity shall be a minimum 40 ft^3 (1.1 m^3). The total petroleum hydrocarbon storage capacity shall be a minimum 50 gallons (189 liters). The access opening to the sump of the OGS device for periodic inspection and maintenance purposes shall be a minimum 16 inches (406 mm) in diameter.

2.9 LADDERS

Ladder rungs shall be provided upon request or to comply with State/Provincial or local requirements.

2.10 INSPECTION

All precast concrete sections shall be level and inspected to ensure dimensions, appearance, integrity of internal components, and quality of the product meets State/Provincial or local specifications and associated standards.

PART 3 – PERFORMANCE & DESIGN

3.1 GENERAL

The OGS stormwater quality treatment device shall be verified in accordance with ISO 14034:2016 Environmental management – Environmental technology verification (ETV). The OGS stormwater quality treatment device shall remove oil, sediment and gross pollutants from stormwater runoff during frequent wet weather events, and retain these pollutants during less frequent high flow wet weather events below the insert within the OGS for later removal during maintenance. The Manufacturer shall have at least ten (10) years of local experience, history and success in engineering design, manufacturing and production and supply of OGS stormwater quality treatment device systems, acceptable to the Engineer of Record.

3.2 HYDROLOGY AND RUNOFF VOLUME

The OGS device shall be engineered, designed and sized to treat a minimum of 90 percent of the average annual runoff volume, unless otherwise stated by the Engineer of Record, using historical rainfall data. Rainfall data sets should be comprised of a minimum 15-years of rainfall data or a longer continuous period if available for a given location, but in all cases a minimum 5-year period of rainfall data.

3.3 ANNUAL (TSS) SEDIMIMENT LOAD AND STORAGE CAPACITY

The OGS device shall be capable of removing and have sufficient storage capacity for the calculated annual total suspended solids (TSS) mass load and volume without scouring previously captured pollutants prior to maintenance being required. The annual (TSS) sediment load and volume transported from the drainage area should be calculated and compared to the OGS device's available storage capacity by the specifying Engineer to ensure adequate capacity between maintenance cycles. Sediment loadings shall be determined by land use and defined as a minimum of 450 kg (992 lb) of sediment (TSS) per impervious hectare of drainage area per year, or greater based on land use, as noted in Table 1 below.

Annual sediment volume calculations shall be performed using the projected average annual treated runoff volume, a typical sediment bulk density of 1602 kg/m^3 (100 lbs/ft^3) and an assumed Event Mean Concentration (EMC) of 125 mg/L TSS in the runoff, or as otherwise determined by the Engineer of Record.

Example calculation for a 1.3-hectares parking lot site:

- 1.28 meters of rainfall depth, per year
- 1.3 hectares of 100% impervious drainage area
- EMC of 125 mg/L TSS in runoff
- Treatment of 90% of the average annual runoff volume
- Target average annual TSS removal rate of 60% by OGS

Annual Runoff Volume:

- 1.28 m rain depth x 1.3 ha x 10,000 m^2/ha= 16,640 m^3 of runoff volume
- 16,640 m^3 x 1000 L/m^3 = 16,640,000 L of runoff volume
- 16,640,000 L x 0.90 = 14,976,000 L to be treated by OGS unit

Annual Sediment Mass and Sediment Volume Load Calculation:

- 14,976,000 L x 125 mg/L x kg/1,000,000 mg = 1,872 kg annual sediment mass
- 1,872 kg x m^3/1602 kg = 1.17 m^3 annual sediment volume
- 1.17 m^3 x 60% TSS removal rate by OGS = 0.70 m^3 minimum expected annual storage requirement in OGS

As a guideline, the U.S. EPA has determined typical annual sediment loads per drainage area for various sites by land use (see Table 1). Certain States, Provinces and local jurisdictions have also established such guidelines.

Table 1 – Annual Mass Sediment Loading by Land Use

	Commercial	Parking Lot	Residential			Highways	Industrial	Shopping Center
			High	Med.	Low			
(lbs/acre/yr)	1,000	400	420	250	10	880	500	440
(kg/hectare/yr)	1,124	450	472	281	11	989	562	494

Source: U.S. EPA Stormwater Best Management Practice Design Guide Volume 1, Appendix D, Table D-1, Burton and Pitt 2002

3.4 SIZING METHODOLOGY

The OGS device shall be engineered, designed and sized to provide stormwater quality treatment based on treating a minimum of 90 percent of the average annual runoff volume and a minimum removal of an annual average 60% of the sediment (TSS) load based on the Particle Size Distribution (PSD) specified in Table 2, Section 3.5, and based on third-party performance testing conducted in accordance with the Canadian Environmental Technology Verification (ETV) Program's **Procedure for Laboratory Testing of Oil-Grit Separators**. Sizing of the OGS shall be determined by use of a minimum ten (10) years of local historical rainfall data provided by Environment Canada. Sizing shall also be determined by use of the sediment removal performance data derived from the ISO 14034 ETV third-party verified laboratory testing data from testing conducted in accordance with the Canadian ETV protocol *Procedure for Laboratory Testing of Oil-Grit Separators*, as follows:

3.4.1 Sediment removal efficiency for a given surface loading rate and its associated flow rate shall be based on sediment removal efficiency demonstrated at the seven (7) tested surface loading rates specified in the protocol, ranging 40 L/min/m^2 to 1400 L/min/m^2, and as stated in the ISO 14034 ETV Verification Statement for the OGS device.

3.4.2 Sediment removal efficiency for surface loading rates between 40 L/min/m^2 and 1400 L/min/m^2 shall be based on linear interpolation of data between consecutive tested surface loading rates.

3.4.3 Sediment removal efficiency for surface loading rates less than the lowest tested surface loading rate of 40 L/min/m^2 shall be assumed to be identical to the sediment removal efficiency at 40 L/min/m^2. No extrapolation shall be allowed that results in a sediment removal efficiency that is greater than that demonstrated at 40 L/min/m^2.

3.4.4 Sediment removal efficiency for surface loading rates greater than the highest tested surface loading rate of 1400 L/min/m^2 shall assume zero sediment removal for the portion of flow that exceeds 1400 L/min/m^2, and shall be calculated using a simple proportioning formula, with 1400 L/min/m^2 in the numerator and the higher surface loading rate in the denominator, and multiplying the resulting fraction times the sediment removal efficiency at 1400 L/min/m^2.

The OGS device shall also have sufficient annual sediment storage capacity as specified and calculated in Section 3.3.

3.4.5 The Peclet Number is not an approved method or model for calculating TSS removal, sizing, or scaling OGS devices.

3.4.6 If an alternate OGS device is proposed, supporting documentation shall be submitted that demonstrates:

- Canadian ETV or ISO 14034 ETV Verification Statement which verifies third-party performance testing conducted in accordance with the **Procedure for Laboratory Testing of Oil-Grit Separators,** including the Light Liquid Re-entrainment Simulation Testing.
- Equal or better sediment (TSS) removal of the PSD specified in Table 2 at equivalent surface loading rates, as compared to the OGS device specified herein.
- Equal or better Light Liquid Re-entrainment Simulation Test results (using low-density polyethylene beads as a surrogate for light liquids such as oil and fuel) at equivalent surface loading rates, as compared to the OGS device specified herein. However, an alternative OGS device shall not be allowed as a substitute if the Light Liquid Re-entrainment Simulation Test was performed with screening components within the OGS device that are effective at retaining the low-density polyethylene beads, but would not be expected to retain light liquids such as oil and fuel.
- Equal or greater sediment storage capacity, as compared to the OGS device specified herein.
- Supporting documentation shall be signed and sealed by a local registered Professional Engineer. All costs associated with preparing and certifying this documentation shall be born solely by the Contractor.

3.5 PARTICLE SIZE DISTRIBUTION (PSD) FOR SIZING

The OGS device shall be sized to achieve the Engineer-specified average annual percent sediment (TSS) removal based solely on the test sediment used in the Canadian ETV Program's **Procedure for Laboratory Testing of Oil-Grit Separators.** This test sediment is comprised of inorganic ground silica with a specific gravity of 2.65, uniformly mixed, and containing a broad range of particle sizes as specified in Table 2. No alternative PSDs or deviations from Table 2 shall be accepted.

Table 2
Canadian ETV Program Procedure for Laboratory Testing of Oil-Grit Separators
Particle Size Distribution (PSD) of Test Sediment

Particle Diameter (Microns)	% by Mass of All Particles	Specific Gravity
1000	5%	2.65
500	5%	2.65
250	15%	2.65
150	15%	2.65
100	10%	2.65
75	5%	2.65
50	10%	2.65
20	15%	2.65
8	10%	2.65
5	5%	2.65
2	5%	2.65

3.6 CANADIAN ETV or ISO 14034 ETV VERIFICATION OF SCOUR TESTING

The OGS device shall have Canadian ETV or ISO 14034 ETV Verification of completed third-party scour testing conducted and have in accordance with the Canadian ETV Program's **Procedure for Laboratory Testing of Oil-Grit Separators**. This scour testing is conducted with the device pre-loaded with test sediment comprised of the particle size distribution (PSD) illustrated in Table 2.

3.6.1 To be acceptable for on-line installation, the OGS device must demonstrate an average scour test effluent concentration less than 10 mg/L at each surface loading rate tested, up to and including 2600 L/min/m^2.

Data generated from laboratory scour testing performed with an OGS device pre-loaded with a coarser PSD than in Table 2 (i.e. the coarser PSD has no particles in the 1-micron to 50-micron size range, or the D_{50} of the test sediment exceeds 75 microns) shall not be acceptable for the determination of the device's suitability for on-line installation.

3.7 DESIGN ACCOUNTING FOR BYPASS

3.7.1 The OGS device shall be specified to achieve the TSS removal performance and water quality objectives without washout of previously captured pollutants. The OGS device shall also have sufficient hydraulic conveyance capacity to convey the peak storm event, in accordance with hydraulic conditions per the Engineer of Record. To ensure this is achieved, there are two design options with associated requirements:

3.7.1.1 The OGS device shall be placed **off-line** with an upstream diversion structure (typically in an upstream manhole) that only allows the water quality volume to be diverted to the OGS device, and excessive flows diverted downstream around the OGS device to prevent high flow washout of pollutants previously captured. This design typically incorporates a triangular layout including an upstream bypass manhole with an appropriately engineered weir wall, the OGS device, and a downstream junction manhole, which is connected to both the OGS device and bypass structure. In this case with an external bypass required, the OGS device manufacturer must provide calculations and designs for all structures, piping and any other required material applicable to the proper functioning of the system, stamped by a Professional Engineer.

3.7.1.2 Alternatively, OGS devices in compliance with Section 3.6 shall be acceptable for an **on-line** design configuration, thereby eliminating the requirement for an upstream bypass manhole and downstream junction manhole.

3.7.2 The OGS device shall also have sufficient hydraulic conveyance capacity to convey the peak storm event, in accordance with hydraulic conditions per the Engineer of Record. If an alternate OGS device is proposed, supporting documentation shall be submitted that demonstrates equal or better hydraulic conveyance capacity as compared to the OGS device specified herein. This documentation shall be signed and sealed by a local registered Professional Engineer. All costs associated with preparing and certifying this documentation shall be born solely by the Contractor.

3.8 LIGHT LIQUID RE-ENTRAINMENT SIMULATION TESTING

The OGS device shall have Canadian ETV or ISO 14034 ETV Verification of completed third-party Light Liquid Re-entrainment Simulation Testing in accordance with the Canadian ETV Program's **Procedure for Laboratory Testing of Oil-Grit Separators**, with results reported within the Canadian ETV or ISO 14034 ETV verification. This re-entrainment testing is conducted with the device pre-loaded with low density polyethylene (LDPE) plastic beads as a surrogate for light liquids such as oil and fuel. Testing is conducted on the same OGS unit tested for sediment removal to assess whether light liquids captured after a spill are effectively retained at high flow rates.

3.8.1 For an OGS device to be an acceptable stormwater treatment device on a site where vehicular traffic occurs and the potential for an oil or fuel spill exists, the OGS device must have reported verified performance results of greater than 99% cumulative retention of LDPE plastic beads for the five specified surface loading rates (ranging 200 L/min/m^2 to 2600 L/min/m^2) in accordance with the Light Liquid Re-entrainment Simulation Testing within the Canadian ETV Program's **Procedure for Laboratory Testing of Oil-Grit Separators**. However, an OGS device shall not be allowed if the Light Liquid Re-entrainment Simulation Testing was performed with screening components within the OGS device that are effective at retaining the LDPE plastic beads, but would not be expected to retain light liquids such as oil and fuel.

3.9 PETROLEUM HYDROCARBONS AND FLOATABLES STORAGE CAPACITY

Petroleum hydrocarbons and floatables storage capacity in the OGS device shall be a minimum 50 gallons (189 Liters), or more as specified.

3.9.1 The OGS device shall have gasketed precast concrete joints that are watertight, and oil resistant and meet the design criteria according to ASTM C-443 to provide safe oil and other hydrocarbon materials storage and ground water protection. Mastic sealants or butyl tape/rope alone are not an acceptable alternative.

3.10 SURFACE LOADING RATE SCALING OF DIFFERENT MODEL SIZES

The reference device for scaling shall be an OGS device that has been third-party tested in accordance with the Canadian ETV Program's **Procedure for Laboratory Testing of Oil-Grit Separators**. Other model sizes of the tested device shall only be scaled such that the claimed TSS removal efficiency of the scaled device shall be no greater than the TSS removal efficiency of the tested device at identical **surface loading rates** (flow rate divided by settling surface area). The depth of other model sizes of the tested device shall be scaled in accordance with the depth scaling provisions within Section 6.0 of the Canadian ETV Program's **Procedure for Laboratory Testing of Oil-Grit Separators**.

3.10.1 The Peclet Number and volumetric scaling are not approved methods for scaling OGS devices.

PART 4 – INSPECTION & MAINTENANCE

The OGS manufacturer shall provide an Owner's Manual upon request.
Maintenance shall be performed by a professional service provider who has experience in cleaning OGS devices and has been trained and certified in applicable health and safety practices, including confined space entry procedures.

4.1 A Quality Assurance Plan that provides inspection for a minimum of 5 years shall be included with the OGS stormwater quality device, and written into the Environmental Compliance Approval (ECA) or the appropriate State/Provincial or local approval document.

4.2 OGS device inspection shall include determination of sediment depth and presence of petroleum hydrocarbons below the insert. Inspection shall be easily conducted from finished grade through a frame and cover of at least 22 inch (560 mm) in diameter.

4.3 Inspection and pollutant removal shall be conducted periodically. For routine maintenance cleaning activities, pollutant removal shall typically utilize a truck equipped with vacuum apparatus, and shall be easily conducted from finished grade through a frame and cover of at least 22-inches (560 mm) in diameter.

4.4 Diameter of the maintenance access opening to the lower chamber and sump shall be scaled consistently across all model sizes, and shall be 1/3 the inside diameter of the OGS structure, or larger.

4.5 No confined space entry shall be required for routine inspection and maintenance cleaning activities.

4.6 For OGS model sizes of diameter 72 inches (1828 mm) and greater, the access opening to the OGS device's lower chamber and sump shall be large enough to allow a maintenance worker to enter the lower chamber to facilitate non-routine maintenance cleaning activities and repairs, as needed.

4.7 The orifice-containing component (i.e. drop pipe, duct, chute, etc.) of the OGS device used to control flow rate into the lower chamber shall be removable from the insert to facilitate cleaning, repair, or replacement of the orifice-containing component, as needed.

PART 5 – EXECUTION

5.1 PRECAST CONCRETE INSTALLATION

The installation of the precast concrete OGS stormwater quality treatment device shall conform to ASTM C 891, ASTM C 478, ASTM C 443, CAN/CSA-A257.4-14, CAN/CSA-A257.4-14, CAN/CSA-S6-00 and all highway, State/Provincial, or local specifications for the construction of manholes. Selected sections of a general specification that are applicable are summarized below. The Contractor shall furnish all labor, equipment and materials necessary to offload, assemble as needed the OGS internal components as specified in the Shop Drawings.

5.2 EXCAVATION

5.2.1 Excavation for the installation of the OGS stormwater quality treatment device shall conform to highway, State/Provincial or local specifications. Topsoil that is removed during the excavation for the OGS stormwater quality treatment device shall be stockpiled in designated areas and not be mixed with subsoil or other materials. Topsoil stockpiles and the general site preparation for the installation of the OGS stormwater quality device shall conform to highway, State/Provincial or local specifications.

5.2.2 The OGS device shall not be installed on frozen ground. Excavation shall extend a minimum of 12 inch (300 mm) from the precast concrete surfaces plus an allowance for shoring and bracing where required. If the bottom of the excavation provides an unsuitable foundation additional excavation may be required.

5.2.3 In areas with a high water table, continuous dewatering shall be provided to ensure that the excavation is stable and free of water.

5.3 BACKFILLING

Backfill material shall conform to highway, State/Provincial or local specifications. Backfill material shall be placed in uniform layers not exceeding 12 inches (300 mm) in depth and compacted to highway, State/Provincial or local specifications.

5.4 OGS WATER QUALITY DEVICE CONSTRUCTION SEQUENCE

5.4.1 The precast concrete OGS stormwater quality treatment device is installed and leveled in sections in the following sequence:

- aggregate base
- base slab, or base
- riser section(s) (if required)
- riser section w/ pre-installed fiberglass insert
- upper riser section(s)
- internal OGS device components
- connect inlet and outlet pipes
- riser section, top slab and/or transition (if required)
- frame and access cover

5.4.2 The precast concrete base shall be placed level at the specified grade. The entire base shall be in contact with the underlying compacted granular material. Subsequent sections, complete with oil resistant, watertight joint seals, shall be installed in accordance with the precast concrete manufacturer's recommendations.

5.4.3 Adjustment of the OGS stormwater quality treatment device can be performed by lifting the upper sections free of the excavated area, re-leveling the base, and re-installing the sections. Damaged sections and gaskets shall be repaired or replaced as necessary. Once the OGS stormwater quality treatment device has been constructed, any lift holes must be plugged with mortar.

5.5 DROP PIPE AND OIL INSPECTION PIPE

Once the upper precast concrete riser has been attached to the lower precast concrete riser section, the OGS device Drop Pipe and Oil Inspection Pipe must be attached, and watertight sealed to the fiberglass insert using Sikaflex 1a. Installation instructions and required materials shall be provided by the OGS manufacturer.

5.6 INLET AND OUTLET PIPES

Inlet and outlet pipes shall be securely set using grout or approved pipe seals (flexible boot connections, where applicable) so that the structure is watertight. Non-secure inlets and outlets will result in improper performance.

5.7 FRAME AND COVER OR FRAME AND GRATE INSTALLATION

Precast concrete adjustment units shall be installed to set the frame and cover/grate at the required elevation. The adjustment units shall be laid in a full bed of mortar with successive units being joined using sealant recommended by the manufacturer. Frames for the cover/grate should be set in a full bed of mortar at the elevation specified.

5.7.1 A minimum of one cover, at least 22-inch (560 mm) in diameter, shall be clearly embossed with the OGS device brand or product name to properly identify this asset's purpose is for stormwater quality treatment.

JFSA
WATER RESOURCES AND ENVIRONMENTAL CONSULTANTS

Ottawa. ON
Paris. ON
Gatineau. QC
Montréal. QC
Québec. QC

Appendix E

HEC-RAS Modelling

N

Legend

- SNC XS
- River
- JFSA Additional XS

SCALE: 1:5000

0 100 200 m

J.F. Sabourin and Associates Inc.
WATER RESOURCES AND ENVIRONMENTAL CONSULTANTS
52 Springbrook Drive
Ottawa, ON, K2S 1B9
(613) 836-3884
www.jfsa.com

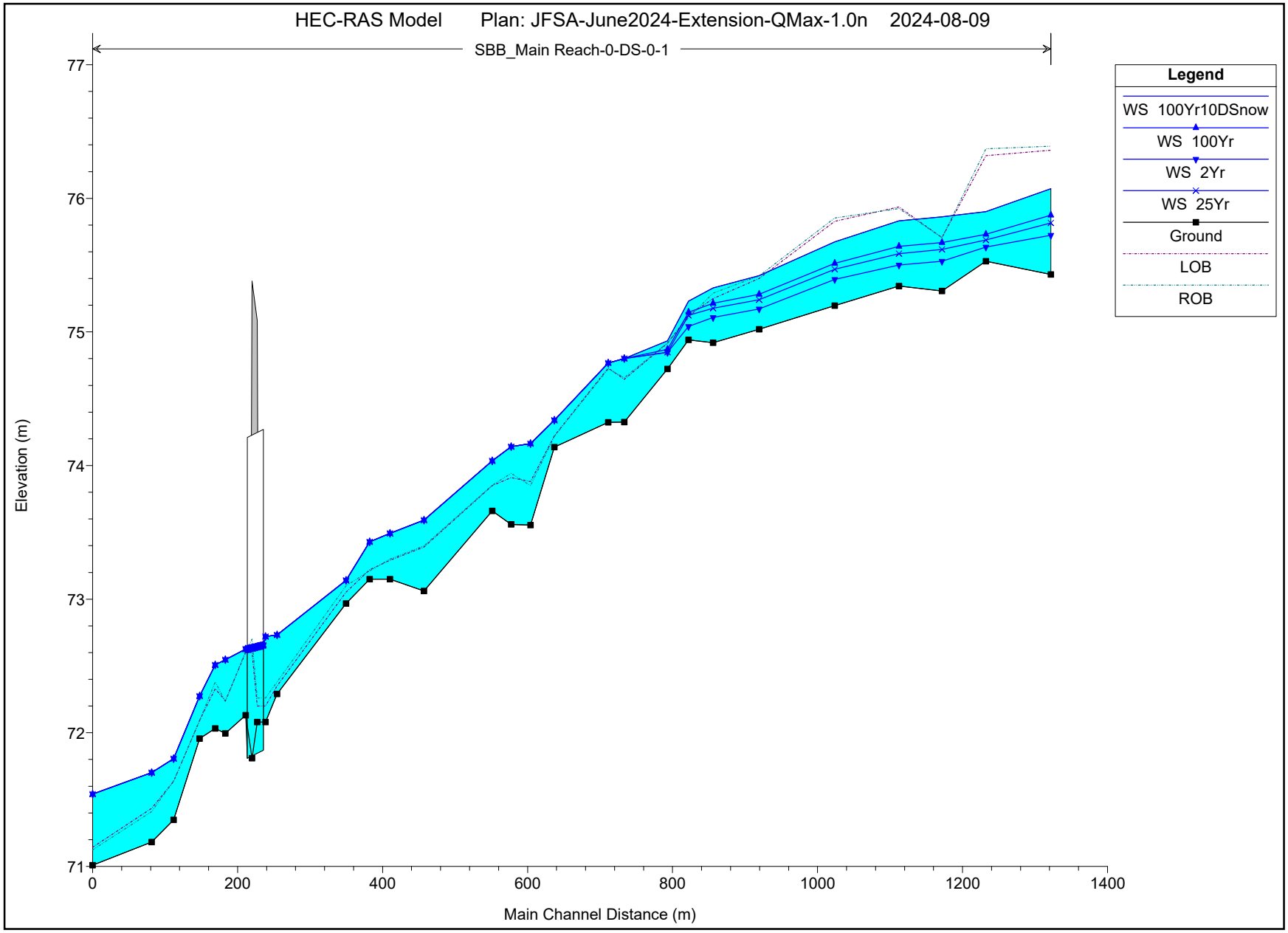
Thunder Road Partnership

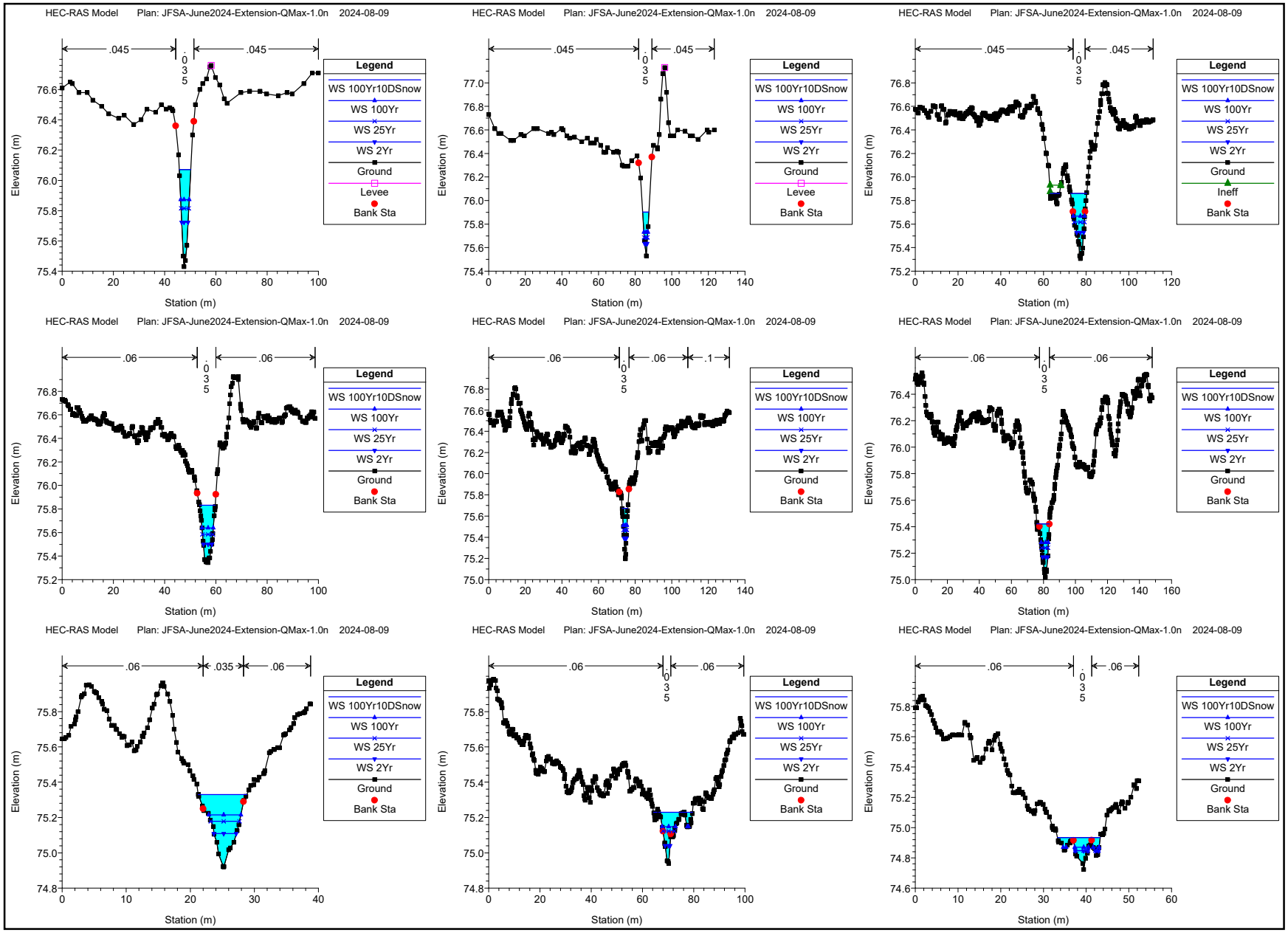
6150 Thunder Road

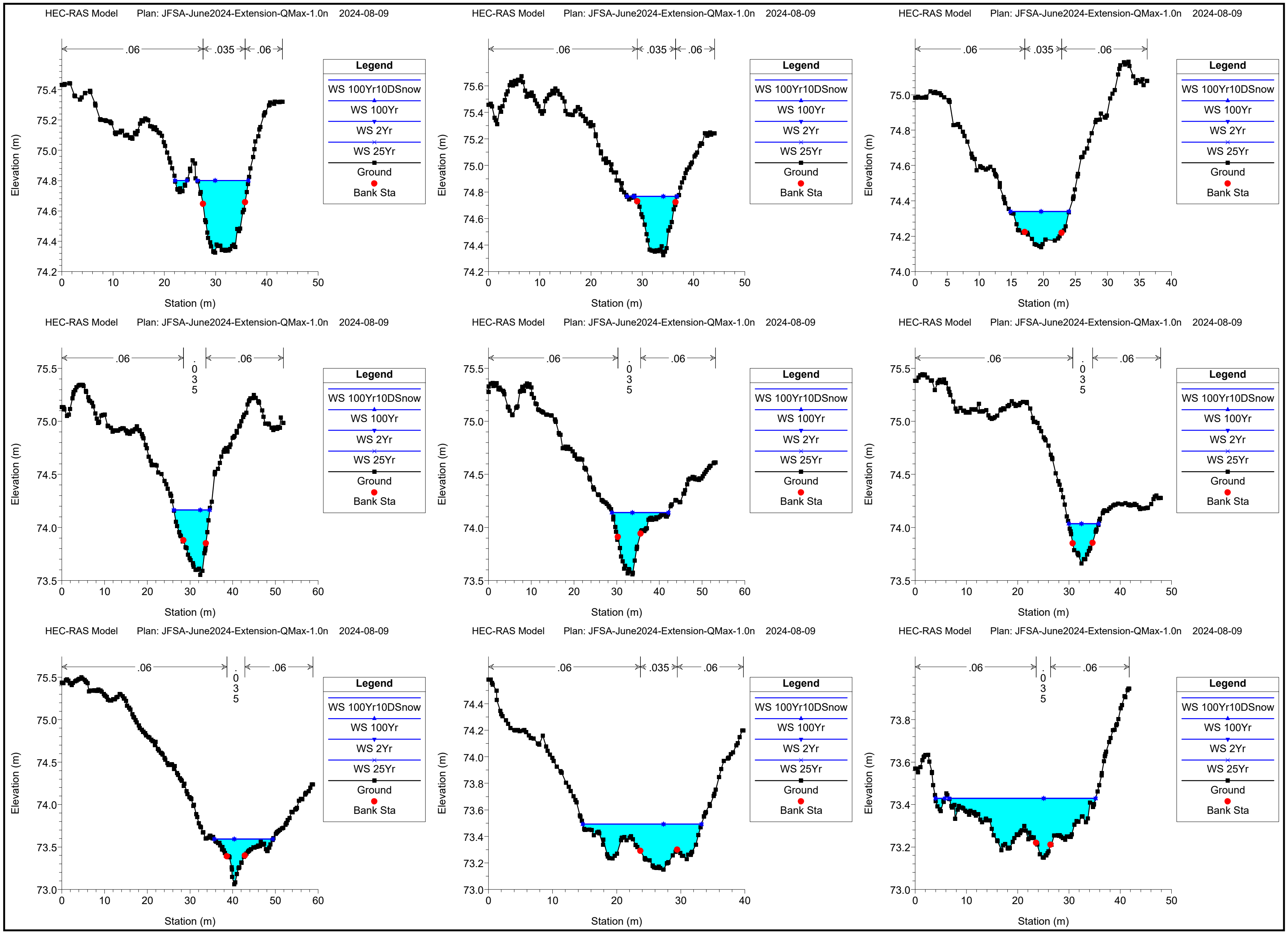
Figure E1: HEC-RAS Modifications

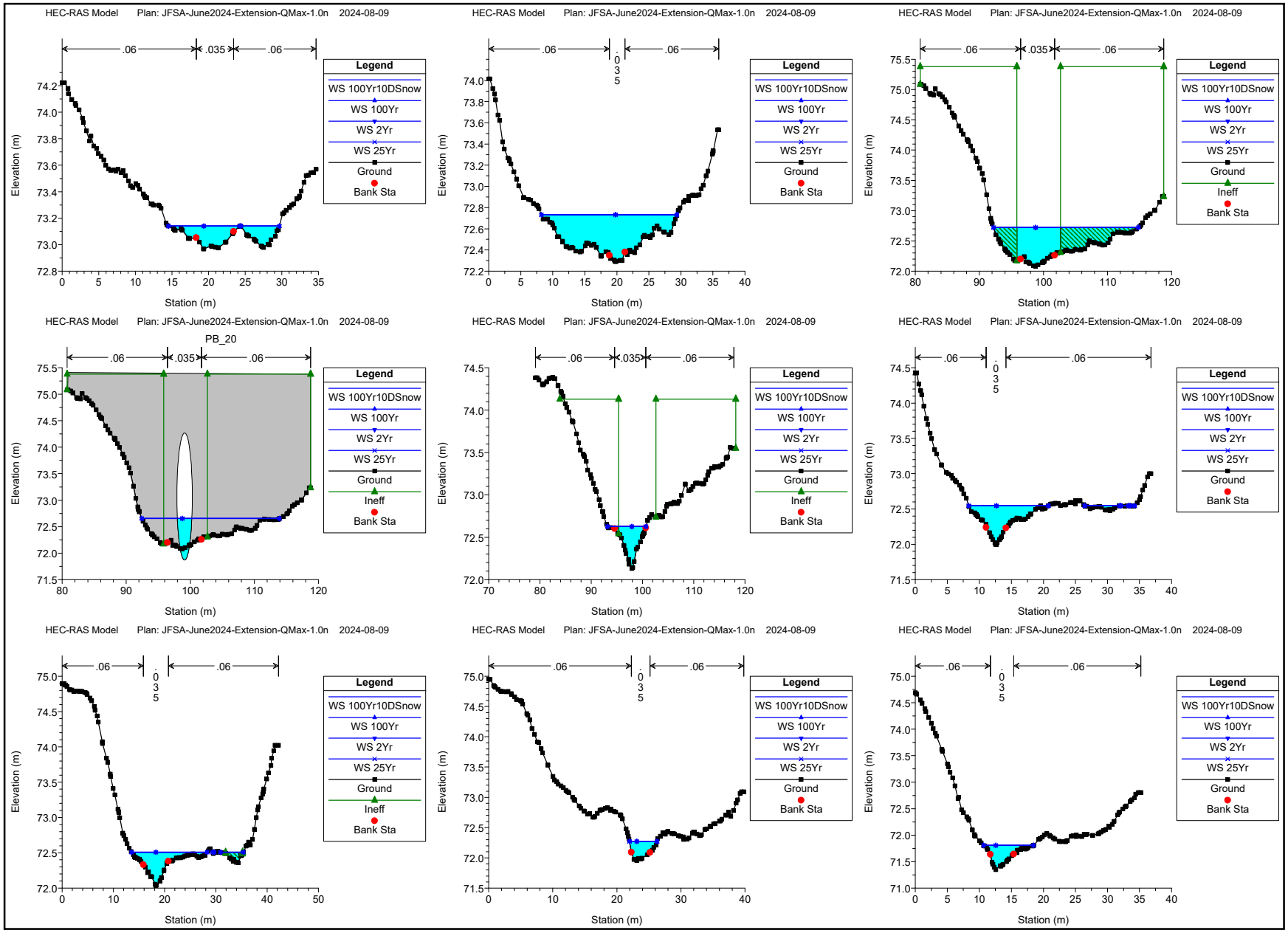
PROJECT	2120(01)-21
DRAWN	JB
DATE	NOV-2024

C:\Users\JonathonBurnett\J.F. Sabourin and Associates Inc\JFSA-OTTAWA-SERVER - Documents\PROJ\2120(01)-21\202411-Detailed Design Subm 2\Design\GIS\20241120-HEC-RAS Model Updated Figure

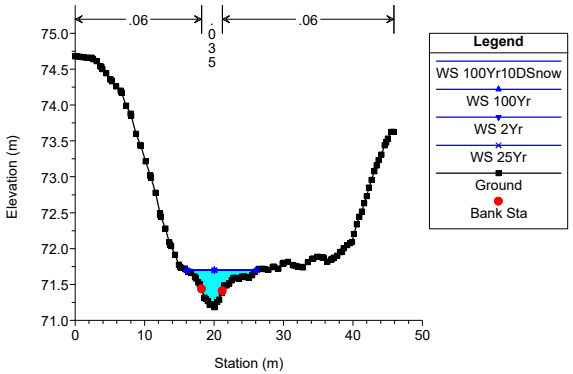

HEC-RAS Model
Plan: JFSA-June2024-Extension-QMax-1.0n
2024-08-09
SBB_Main Reach-0-DS-0-1
Legend
WS 100Yr10DSnow
WS 100Yr
WS 2Yr
WS 25Yr
Ground
LOB
ROB
Elevation (m)
77
76
75
74
73
72
71
0
200
400
600
800
1000
1200
1400
Main Channel Distance (m)


HEC-RAS Model Plan: JFSA-June2024-Extension-QMax-1.0n 2024-08-09
.045
.045
0
3
5
Legend
WS 100Yr10DSnow
WS 100Yr
WS 25Yr
WS 2Yr
Ground
Levee
Bank Sta
Elevation (m)
Station (m)
HEC-RAS Model Plan: JFSA-June2024-Extension-QMax-1.0n 2024-08-09
.045
.045
0
3
5
Legend
WS 100Yr10DSnow
WS 100Yr
WS 25Yr
WS 2Yr
Ground
Levee
Bank Sta
Elevation (m)
Station (m)
HEC-RAS Model Plan: JFSA-June2024-Extension-QMax-1.0n 2024-08-09
.045
.045
0
3
5
Legend
WS 100Yr10DSnow
WS 100Yr
WS 25Yr
WS 2Yr
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)
HEC-RAS Model Plan: JFSA-June2024-Extension-QMax-1.0n 2024-08-09
.06
.06
0
3
5
Legend
WS 100Yr10DSnow
WS 100Yr
WS 25Yr
WS 2Yr
Ground
Bank Sta
Elevation (m)
Station (m)
HEC-RAS Model Plan: JFSA-June2024-Extension-QMax-1.0n 2024-08-09
.06
.06
.1
0
3
5
Legend
WS 100Yr10DSnow
WS 100Yr
WS 25Yr
WS 2Yr
Ground
Bank Sta
Elevation (m)
Station (m)
HEC-RAS Model Plan: JFSA-June2024-Extension-QMax-1.0n 2024-08-09
.06
.06
0
3
5
Legend
WS 100Yr10DSnow
WS 100Yr
WS 25Yr
WS 2Yr
Ground
Bank Sta
Elevation (m)
Station (m)
HEC-RAS Model Plan: JFSA-June2024-Extension-QMax-1.0n 2024-08-09
.06
.035
.06
Legend
WS 100Yr10DSnow
WS 100Yr
WS 25Yr
WS 2Yr
Ground
Bank Sta
Elevation (m)
Station (m)
HEC-RAS Model Plan: JFSA-June2024-Extension-QMax-1.0n 2024-08-09
.06
.06
0
3
5
Legend
WS 100Yr10DSnow
WS 100Yr
WS 25Yr
WS 2Yr
Ground
Bank Sta
Elevation (m)
Station (m)
HEC-RAS Model Plan: JFSA-June2024-Extension-QMax-1.0n 2024-08-09
.06
.06
0
3
5
Legend
WS 100Yr10DSnow
WS 100Yr
WS 25Yr
WS 2Yr
Ground
Bank Sta
Elevation (m)
Station (m)

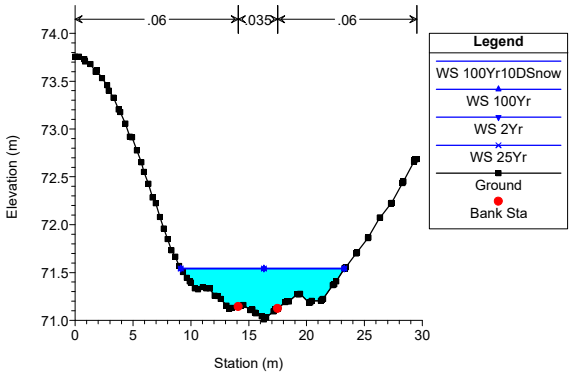

HEC-RAS Model Plan: JFSA-June2024-Extension-QMax-1.0n 2024-08-09
.06 .035 .06
Legend
WS 100Yr10DSnow
WS 100Yr
WS 2Yr
WS 25Yr
Ground
Bank Sta
Elevation (m)
Station (m)
HEC-RAS Model Plan: JFSA-June2024-Extension-QMax-1.0n 2024-08-09
.06 .035 .06
Legend
WS 100Yr10DSnow
WS 100Yr
WS 2Yr
WS 25Yr
Ground
Bank Sta
Elevation (m)
Station (m)
HEC-RAS Model Plan: JFSA-June2024-Extension-QMax-1.0n 2024-08-09
.06 .035 .06
Legend
WS 100Yr10DSnow
WS 100Yr
WS 2Yr
WS 25Yr
Ground
Bank Sta
Elevation (m)
Station (m)
HEC-RAS Model Plan: JFSA-June2024-Extension-QMax-1.0n 2024-08-09
.06 .035 .06
Legend
WS 100Yr10DSnow
WS 100Yr
WS 2Yr
WS 25Yr
Ground
Bank Sta
Elevation (m)
Station (m)
HEC-RAS Model Plan: JFSA-June2024-Extension-QMax-1.0n 2024-08-09
.06 .035 .06
Legend
WS 100Yr10DSnow
WS 100Yr
WS 2Yr
WS 25Yr
Ground
Bank Sta
Elevation (m)
Station (m)
HEC-RAS Model Plan: JFSA-June2024-Extension-QMax-1.0n 2024-08-09
.06 .035 .06
Legend
WS 100Yr10DSnow
WS 100Yr
WS 2Yr
WS 25Yr
Ground
Bank Sta
Elevation (m)
Station (m)
HEC-RAS Model Plan: JFSA-June2024-Extension-QMax-1.0n 2024-08-09
.06 .035 .06
Legend
WS 100Yr10DSnow
WS 100Yr
WS 2Yr
WS 25Yr
Ground
Bank Sta
Elevation (m)
Station (m)
HEC-RAS Model Plan: JFSA-June2024-Extension-QMax-1.0n 2024-08-09
.06 .035 .06
Legend
WS 100Yr10DSnow
WS 100Yr
WS 2Yr
WS 25Yr
Ground
Bank Sta
Elevation (m)
Station (m)
HEC-RAS Model Plan: JFSA-June2024-Extension-QMax-1.0n 2024-08-09
.06 .035 .06
Legend
WS 100Yr10DSnow
WS 100Yr
WS 2Yr
WS 25Yr
Ground
Bank Sta
Elevation (m)
Station (m)


HEC-RAS Model Plan: JFSA-June2024-Extension-QMax-1.0n 2024-08-09
.06
.035
.06
Legend
WS 100Yr10DSnow
WS 100Yr
WS 2Yr
WS 25Yr
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)
PB_20

HEC-RAS Model Plan: JFSA-June2024-Extension-QMax-1.0n 2024-08-09



HEC-RAS Model Plan: JFSA-June2024-Extension-QMax-1.0n 2024-08-09



HEC-RAS Plan: JFSA-June2024-Extension River: SBB_Main Reach: Reach-0-DS-0-1

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach-0-DS-0-1	84663.10	100Yr10DSnow	0.60	75.43	76.07	75.73	76.08	0.000638	0.36	1.67	4.53	0.19
Reach-0-DS-0-1	84663.10	100Yr	0.20	75.43	75.87	75.61	75.88	0.000397	0.23	0.88	3.37	0.14
Reach-0-DS-0-1	84663.10	2Yr	0.05	75.43	75.72	75.53	75.72	0.000177	0.12	0.44	2.50	0.09
Reach-0-DS-0-1	84663.10	25Yr	0.13	75.43	75.82	75.58	75.82	0.000326	0.19	0.70	3.04	0.13
Reach-0-DS-0-1	84574	100Yr10DSnow	0.60	75.53	75.90	75.82	75.94	0.007139	0.84	0.72	3.42	0.58
Reach-0-DS-0-1	84574	100Yr	0.20	75.53	75.73	75.71	75.77	0.016524	0.83	0.24	2.17	0.80
Reach-0-DS-0-1	84574	2Yr	0.05	75.53	75.63	75.63	75.66	0.037138	0.76	0.07	1.30	1.06
Reach-0-DS-0-1	84574	25Yr	0.13	75.53	75.69	75.69	75.73	0.025368	0.86	0.15	1.84	0.95
Reach-0-DS-0-1	84513	100Yr10DSnow	0.60	75.31	75.86	75.56	75.87	0.000385	0.28	2.22	11.97	0.15
Reach-0-DS-0-1	84513	100Yr	0.20	75.31	75.67	75.46	75.67	0.000481	0.20	0.99	5.33	0.15
Reach-0-DS-0-1	84513	2Yr	0.05	75.31	75.53	75.39	75.53	0.000390	0.13	0.39	3.27	0.13
Reach-0-DS-0-1	84513	25Yr	0.13	75.31	75.62	75.44	75.62	0.000485	0.18	0.73	4.70	0.15
Reach-0-DS-0-1	84454	100Yr10DSnow	0.60	75.34	75.83		75.84	0.000599	0.32	1.89	6.07	0.18
Reach-0-DS-0-1	84454	100Yr	0.20	75.34	75.64		75.64	0.000531	0.23	0.89	4.37	0.16
Reach-0-DS-0-1	84454	2Yr	0.05	75.34	75.50		75.50	0.000527	0.15	0.35	3.29	0.14
Reach-0-DS-0-1	84454	25Yr	0.13	75.34	75.59		75.59	0.000538	0.20	0.66	3.97	0.16
Reach-0-DS-0-1	84366	100Yr10DSnow	0.60	75.20	75.67		75.71	0.006188	0.83	0.72	3.06	0.55
Reach-0-DS-0-1	84366	100Yr	0.20	75.20	75.51		75.53	0.005598	0.62	0.32	1.99	0.49
Reach-0-DS-0-1	84366	2Yr	0.05	75.20	75.39		75.40	0.005235	0.42	0.12	1.29	0.43
Reach-0-DS-0-1	84366	25Yr	0.13	75.20	75.47		75.48	0.005569	0.55	0.24	1.75	0.47
Reach-0-DS-0-1	84261	100Yr10DSnow	0.60	75.02	75.42		75.43	0.001426	0.41	1.51	7.90	0.27
Reach-0-DS-0-1	84261	100Yr	0.20	75.02	75.28		75.29	0.001274	0.29	0.69	4.50	0.24
Reach-0-DS-0-1	84261	2Yr	0.05	75.02	75.17		75.17	0.001224	0.19	0.27	3.18	0.21
Reach-0-DS-0-1	84261	25Yr	0.13	75.02	75.24		75.24	0.001229	0.25	0.52	4.00	0.23
Reach-0-DS-0-1	84199	100Yr10DSnow	0.60	74.92	75.33		75.34	0.001422	0.41	1.51	7.58	0.27
Reach-0-DS-0-1	84199	100Yr	0.20	74.92	75.21		75.22	0.000978	0.26	0.78	5.01	0.21
Reach-0-DS-0-1	84199	2Yr	0.05	74.92	75.11		75.11	0.000702	0.16	0.33	3.50	0.16
Reach-0-DS-0-1	84199	25Yr	0.13	74.92	75.18		75.18	0.000855	0.22	0.60	4.49	0.19
Reach-0-DS-0-1	84165	100Yr10DSnow	0.60	74.94	75.23	75.18	75.25	0.005523	0.75	1.26	14.57	0.52
Reach-0-DS-0-1	84165	100Yr	0.20	74.94	75.15	75.08	75.16	0.004383	0.48	0.47	5.70	0.43
Reach-0-DS-0-1	84165	2Yr	0.05	74.94	75.04		75.05	0.010324	0.45	0.12	1.89	0.58
Reach-0-DS-0-1	84165	25Yr	0.13	74.94	75.12	75.06	75.13	0.003942	0.40	0.36	4.44	0.39
Reach-0-DS-0-1	84136	100Yr10DSnow	0.60	74.72	74.93	74.93	74.98	0.021645	0.99	0.80	10.01	0.93
Reach-0-DS-0-1	84136	100Yr	0.20	74.72	74.87	74.87	74.90	0.024843	0.79	0.28	5.33	0.93
Reach-0-DS-0-1	84136	2Yr	0.05	74.72	74.85		74.85	0.004831	0.30	0.19	3.70	0.39
Reach-0-DS-0-1	84136	25Yr	0.13	74.72	74.85	74.85	74.88	0.029898	0.74	0.19	3.72	0.98
Reach-0-DS-0-1	84077	100Yr10DSnow	1.25	74.32	74.80		74.81	0.000672	0.39	3.41	12.40	0.20
Reach-0-DS-0-1	84077	100Yr	1.25	74.32	74.80		74.81	0.000672	0.39	3.41	12.40	0.20
Reach-0-DS-0-1	84077	2Yr	1.25	74.32	74.80		74.81	0.000672	0.39	3.41	12.40	0.20
Reach-0-DS-0-1	84077	25Yr	1.25	74.32	74.80		74.81	0.000672	0.39	3.41	12.40	0.20
Reach-0-DS-0-1	84055	100Yr10DSnow	1.25	74.32	74.77	74.58	74.78	0.002116	0.57	2.21	9.58	0.34
Reach-0-DS-0-1	84055	100Yr	1.25	74.32	74.77	74.58	74.78	0.002116	0.57	2.21	9.58	0.34
Reach-0-DS-0-1	84055	2Yr	1.25	74.32	74.77	74.58	74.78	0.002116	0.57	2.21	9.58	0.34
Reach-0-DS-0-1	84055	25Yr	1.25	74.32	74.77	74.58	74.78	0.002116	0.57	2.21	9.58	0.34
Reach-0-DS-0-1	83980	100Yr10DSnow	1.25	74.14	74.34	74.34	74.41	0.021311	1.23	1.18	9.13	0.98
Reach-0-DS-0-1	83980	100Yr	1.25	74.14	74.34	74.34	74.41	0.021311	1.23	1.18	9.13	0.98
Reach-0-DS-0-1	83980	2Yr	1.25	74.14	74.34	74.34	74.41	0.021311	1.23	1.18	9.13	0.98
Reach-0-DS-0-1	83980	25Yr	1.25	74.14	74.34	74.34	74.41	0.021311	1.23	1.18	9.13	0.98
Reach-0-DS-0-1	83947	100Yr10DSnow	1.25	73.55	74.16		74.17	0.000718	0.46	3.07	8.42	0.21
Reach-0-DS-0-1	83947	100Yr	1.25	73.55	74.16		74.17	0.000718	0.46	3.07	8.42	0.21
Reach-0-DS-0-1	83947	2Yr	1.25	73.55	74.16		74.17	0.000718	0.46	3.07	8.42	0.21
Reach-0-DS-0-1	83947	25Yr	1.25	73.55	74.16		74.17	0.000718	0.46	3.07	8.42	0.21
Reach-0-DS-0-1	83920	100Yr10DSnow	1.25	73.56	74.14		74.15	0.000955	0.51	3.00	13.28	0.24
Reach-0-DS-0-1	83920	100Yr	1.25	73.56	74.14		74.15	0.000955	0.51	3.00	13.28	0.24
Reach-0-DS-0-1	83920	2Yr	1.25	73.56	74.14		74.15	0.000955	0.51	3.00	13.28	0.24
Reach-0-DS-0-1	83920	25Yr	1.25	73.56	74.14		74.15	0.000955	0.51	3.00	13.28	0.24
Reach-0-DS-0-1	83894	100Yr10DSnow	1.25	73.66	74.03		74.09	0.007914	1.10	1.27	5.85	0.66
Reach-0-DS-0-1	83894	100Yr	1.25	73.66	74.03		74.09	0.007914	1.10	1.27	5.85	0.66
Reach-0-DS-0-1	83894	2Yr	1.25	73.66	74.03		74.09	0.007914	1.10	1.27	5.85	0.66
Reach-0-DS-0-1	83894	25Yr	1.25	73.66	74.03		74.09	0.007914	1.10	1.27	5.85	0.66
Reach-0-DS-0-1	83803	100Yr10DSnow	1.25	73.06	73.59		73.62	0.003312	0.77	2.29	13.73	0.43
Reach-0-DS-0-1	83803	100Yr	1.25	73.06	73.59		73.62	0.003312	0.77	2.29	13.73	0.43
Reach-0-DS-0-1	83803	2Yr	1.25	73.06	73.59		73.62	0.003312	0.77	2.29	13.73	0.43
Reach-0-DS-0-1	83803	25Yr	1.25	73.06	73.59		73.62	0.003312	0.77	2.29	13.73	0.43
Reach-0-DS-0-1	83757	100Yr10DSnow	1.25	73.15	73.49		73.50	0.001872	0.53	3.52	18.53	0.32
Reach-0-DS-0-1	83757	100Yr	1.25	73.15	73.49		73.50	0.001872	0.53	3.52	18.53	0.32
Reach-0-DS-0-1	83757	2Yr	1.25	73.15	73.49		73.50	0.001872	0.53	3.52	18.53	0.32
Reach-0-DS-0-1	83757	25Yr	1.25	73.15	73.49		73.50	0.001872	0.53	3.52	18.53	0.32
Reach-0-DS-0-1	83729	100Yr10DSnow	1.25	73.15	73.43	73.34	73.44	0.002971	0.62	4.18	30.44	0.40
Reach-0-DS-0-1	83729	100Yr	1.25	73.15	73.43	73.34	73.44	0.002971	0.62	4.18	30.44	0.40
Reach-0-DS-0-1	83729	2Yr	1.25	73.15	73.43	73.34	73.44	0.002971	0.62	4.18	30.44	0.40
Reach-0-DS-0-1	83729	25Yr	1.25	73.15	73.43	73.34	73.44	0.002971	0.62	4.18	30.44	0.40

HEC-RAS Plan: JFSA-June2024-Extension River: SBB_Main Reach: Reach-0-DS-0-1 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach-0-DS-0-1	83696	100Yr10DSnow	1.25	72.97	73.14	73.14	73.20	0.029603	1.29	1.39	15.06	1.12
Reach-0-DS-0-1	83696	100Yr	1.25	72.97	73.14	73.14	73.20	0.029603	1.29	1.39	15.06	1.12
Reach-0-DS-0-1	83696	2Yr	1.25	72.97	73.14	73.14	73.20	0.029603	1.29	1.39	15.06	1.12
Reach-0-DS-0-1	83696	25Yr	1.25	72.97	73.14	73.14	73.20	0.029603	1.29	1.39	15.06	1.12
Reach-0-DS-0-1	83604	100Yr10DSnow	1.25	72.29	72.73		72.74	0.000778	0.45	5.47	21.16	0.22
Reach-0-DS-0-1	83604	100Yr	1.25	72.29	72.73		72.74	0.000778	0.45	5.47	21.16	0.22
Reach-0-DS-0-1	83604	2Yr	1.25	72.29	72.73		72.74	0.000778	0.45	5.47	21.16	0.22
Reach-0-DS-0-1	83604	25Yr	1.25	72.29	72.73		72.74	0.000778	0.45	5.47	21.16	0.22
Reach-0-DS-0-1	83589	100Yr10DSnow	1.25	72.08	72.72	72.34	72.73	0.000389	0.38	3.64	22.63	0.16
Reach-0-DS-0-1	83589	100Yr	1.25	72.08	72.72	72.34	72.73	0.000389	0.38	3.64	22.63	0.16
Reach-0-DS-0-1	83589	2Yr	1.25	72.08	72.72	72.34	72.73	0.000389	0.38	3.64	22.63	0.16
Reach-0-DS-0-1	83589	25Yr	1.25	72.08	72.72	72.34	72.73	0.000389	0.38	3.64	22.63	0.16
Reach-0-DS-0-1	83574 PB_20		Culvert									
Reach-0-DS-0-1	83562	100Yr10DSnow	1.25	72.13	72.63	72.54	72.67	0.006408	0.91	1.37	7.53	0.58
Reach-0-DS-0-1	83562	100Yr	1.25	72.13	72.63	72.54	72.67	0.006408	0.91	1.37	7.53	0.58
Reach-0-DS-0-1	83562	2Yr	1.25	72.13	72.63	72.54	72.67	0.006408	0.91	1.37	7.53	0.58
Reach-0-DS-0-1	83562	25Yr	1.25	72.13	72.63	72.54	72.67	0.006408	0.91	1.37	7.53	0.58
Reach-0-DS-0-1	83532	100Yr10DSnow	1.25	71.99	72.55		72.57	0.002015	0.73	2.82	19.89	0.35
Reach-0-DS-0-1	83532	100Yr	1.25	71.99	72.55		72.57	0.002015	0.73	2.82	19.89	0.35
Reach-0-DS-0-1	83532	2Yr	1.25	71.99	72.55		72.57	0.002015	0.73	2.82	19.89	0.35
Reach-0-DS-0-1	83532	25Yr	1.25	71.99	72.55		72.57	0.002015	0.73	2.82	19.89	0.35
Reach-0-DS-0-1	83518	100Yr10DSnow	1.25	72.03	72.51	72.38	72.53	0.003205	0.74	2.23	19.54	0.42
Reach-0-DS-0-1	83518	100Yr	1.25	72.03	72.51	72.38	72.53	0.003205	0.74	2.23	19.54	0.42
Reach-0-DS-0-1	83518	2Yr	1.25	72.03	72.51	72.38	72.53	0.003205	0.74	2.23	19.54	0.42
Reach-0-DS-0-1	83518	25Yr	1.25	72.03	72.51	72.38	72.53	0.003205	0.74	2.23	19.54	0.42
Reach-0-DS-0-1	83496	100Yr10DSnow	1.25	71.96	72.27	72.27	72.39	0.017666	1.55	0.91	4.30	0.96
Reach-0-DS-0-1	83496	100Yr	1.25	71.96	72.27	72.27	72.39	0.017666	1.55	0.91	4.30	0.96
Reach-0-DS-0-1	83496	2Yr	1.25	71.96	72.27	72.27	72.39	0.017666	1.55	0.91	4.30	0.96
Reach-0-DS-0-1	83496	25Yr	1.25	71.96	72.27	72.27	72.39	0.017666	1.55	0.91	4.30	0.96
Reach-0-DS-0-1	83460	100Yr10DSnow	1.25	71.35	71.81		71.85	0.005642	1.00	1.47	7.83	0.56
Reach-0-DS-0-1	83460	100Yr	1.25	71.35	71.81		71.85	0.005642	1.00	1.47	7.83	0.56
Reach-0-DS-0-1	83460	2Yr	1.25	71.35	71.81		71.85	0.005642	1.00	1.47	7.83	0.56
Reach-0-DS-0-1	83460	25Yr	1.25	71.35	71.81		71.85	0.005642	1.00	1.47	7.83	0.56
Reach-0-DS-0-1	83430	100Yr10DSnow	1.25	71.18	71.70		71.73	0.002815	0.85	2.10	10.15	0.41
Reach-0-DS-0-1	83430	100Yr	1.25	71.18	71.70		71.73	0.002815	0.85	2.10	10.15	0.41
Reach-0-DS-0-1	83430	2Yr	1.25	71.18	71.70		71.73	0.002815	0.85	2.10	10.15	0.41
Reach-0-DS-0-1	83430	25Yr	1.25	71.18	71.70		71.73	0.002815	0.85	2.10	10.15	0.41
Reach-0-DS-0-1	83350	100Yr10DSnow	1.90	71.01	71.54		71.56	0.001785	0.71	4.37	14.13	0.34
Reach-0-DS-0-1	83350	100Yr	1.90	71.01	71.54		71.56	0.001785	0.71	4.37	14.13	0.34
Reach-0-DS-0-1	83350	2Yr	1.90	71.01	71.54		71.56	0.001785	0.71	4.37	14.13	0.34
Reach-0-DS-0-1	83350	25Yr	1.90	71.01	71.54		71.56	0.001785	0.71	4.37	14.13	0.34

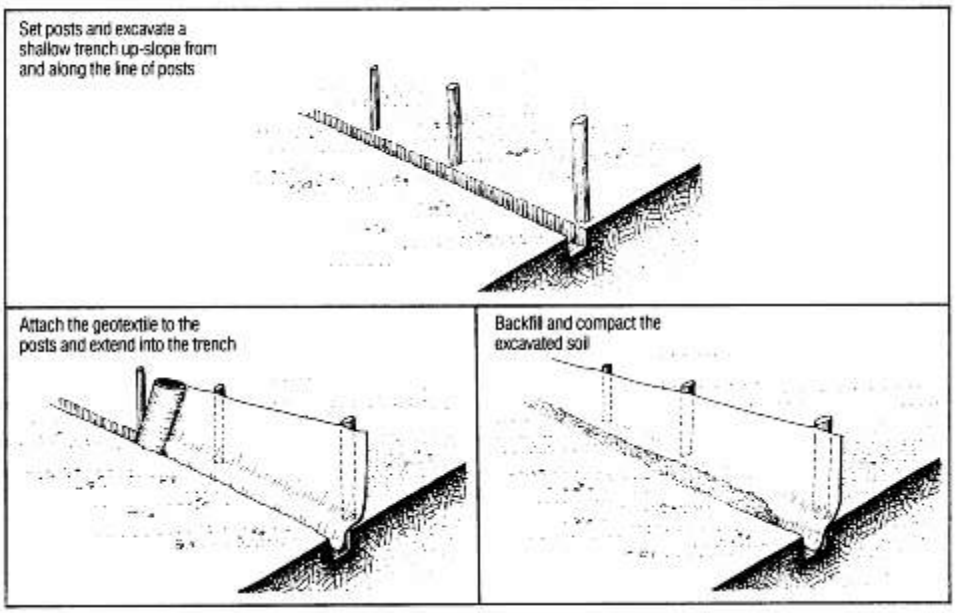


Figure 7: Typical installation of silt fences

4 CONCLUSION

As documented above, JFSA Canada Inc (JFSA) has completed a detailed hydrologic analysis of the proposed development site under pre-development conditions to establish target release rates. A detailed PCSWMM model was then created based on the detailed design developed by LRL to assess the hydrologic and hydraulic operations of the site under post-development conditions to ensure that: the development storm sewer network is sufficiently sized, the proposed SWM ponds have sufficient capacity to attenuate flows to pre-development conditions, that the major system storage locations do not pose a risk to the proposed building and the increase in runoff volume does not exacerbate downstream erosion issues. Based on this analysis it was determined that the proposed SWM infrastructure is sufficiently sized to ensure no risk to both the proposed development and surrounding existing lands.