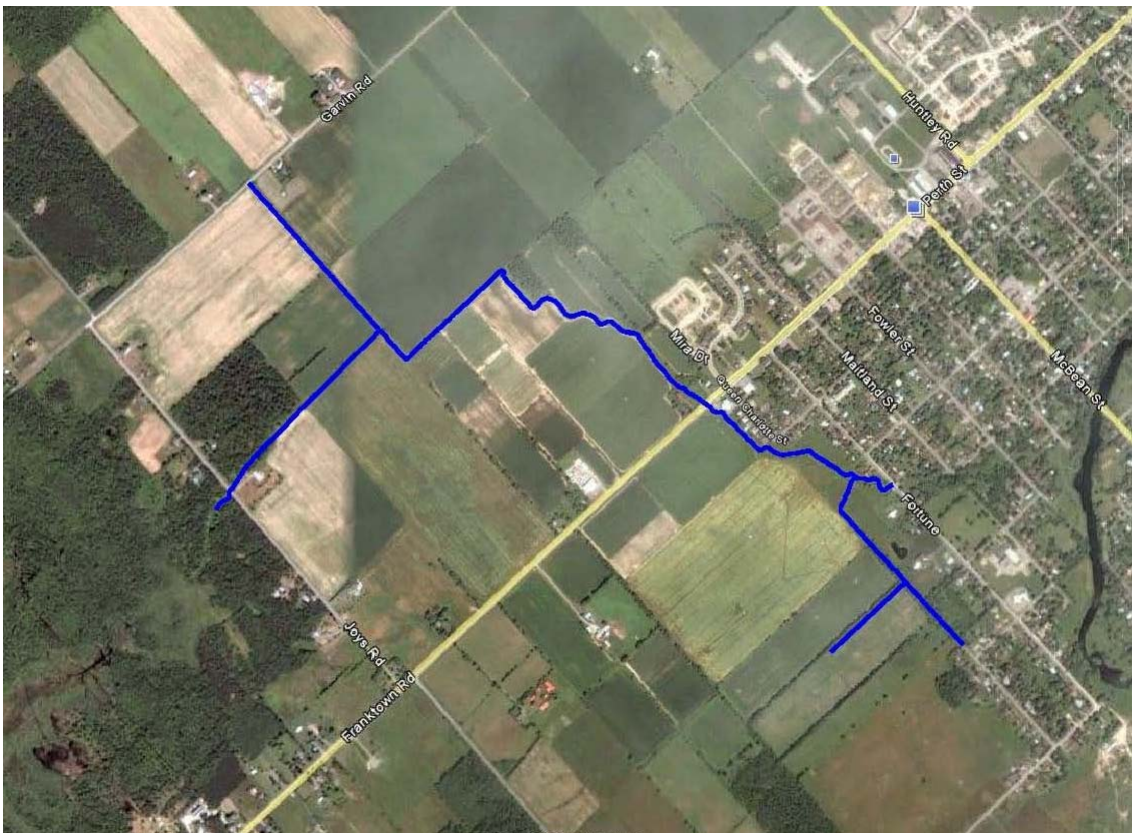
FLOODPLAIN MAPPING REPORT FOR THE VAN GAAL AND ARBUCKLE MUNICIPAL DRAINS IN THE VILLAGE OF RICHMOND

City of Ottawa
November 2009



Project No. 709-08

Prepared for:
Rideau Valley Conservation Authority

Prepared by:
J.F. Sabourin and Associates Inc.

JFSA inc.
WATER RESOURCES AND ENVIRONMENTAL CONSULTANTS

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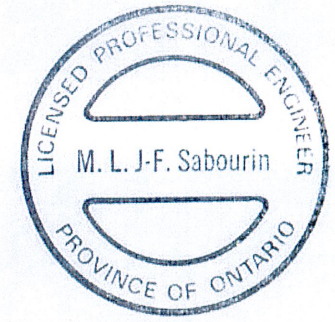

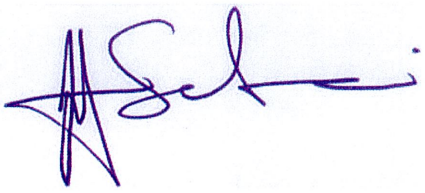

J.F. Sabourin, M.Eng., P.Eng.

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Project No. 709-08

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FLOODPLAIN MAPPING REPORT FOR THE VAN GAAL AND ARBUCKLE MUNICIPAL DRAINS IN THE VILLAGE OF RICHMOND

Village of Richmond
November 2009

1.0 Introduction

J.F. Sabourin and Associates Inc. (JFSA) were retained by the Rideau Valley Conservation Authority (RVCA) to delineate flood risk limits along the Van Gaal and Arbuckle Municipal Drains in the Village of Richmond, a tributary to the Jock River. As provided by the City of Ottawa, Appendix A presents the Floodplain Mapping that was to be completed within the present study. Flood risk mapping for the Jock River as well as the portion of the drain between Perth Street and the Jock River has previously been completed in 2005 by PSR Group. For general location of the study area, refer to Figure 1.

The flood risk mapping is to conform to MNR Natural Hazards Guidelines. The maps must be suitable for use in land use planning and development control in accordance with Provincial Policy Statement. The mapping will also be suitable for RVCA's regulation limits mapping associated with O. Reg. 174/06, as per the Terms of Reference.

Flood risk mapping requires the development of hydraulic simulation models to estimate the 100 year water level based on reliable flow estimates. Flow estimates on the Jock River have been determined through the combined use of the SWMHYMO model and statistical analyses of recorded annual peak flows, all of which is described in the "Hydrology Report – July 2004, Jock River Flood Risk Mapping (within the City of Ottawa)". Similarly, flow estimates from the catchment area which drains to the Van Gaal and Arbuckle municipal drains have been developed in this report.

To determine peak flows, a hydrologic analysis was performed using SWMHYMO. This modeling is based on a drainage map and input parameters provided by the City of Ottawa, which was prepared for a separate project being worked on by David Schaeffer Engineering Ltd. (DSEL). This information was checked and adjusted as required for this study. Included in these adjustments was the need to further delineate upstream sub-catchment areas for the purpose of calculating flows at key locations to be used in the hydraulic model.

The hydraulic analysis, for the portions of the drain to be mapped, was conducted using HEC-RAS (version 3.1.3 – May 2005). While a complete topographical survey of the subject watercourse was initially anticipated, this could not be undertaken during the course of this study as we were not granted access to the subject properties. Consequently, the

cross-section and overbank data that were entered in the hydraulic model were generally established from the 2005, 1:2000 base mapping (produced from aerial photos dated September 2001) provided by the City of Ottawa, combined with information provided by Robinson Consultants Inc. (RCI).

For the portion of the drain that is located between Fortune Street and Perth Street, the surveyed information (for existing conditions) from an ongoing RCI study for the Arbuckle Drain was used to define the geometry of the main channel of the watercourse. For the portion of the drain that is located upstream of Perth Street, and for approximately 775 m, the proposed channel configuration in the RCI's Engineer's Report Van Gaal Municipal Drain report (July 2003) was used to define the geometry of the main channel of the watercourse in this area. As with the other portions of the drain, the overbanks of the watercourse were estimated from the available base mapping.

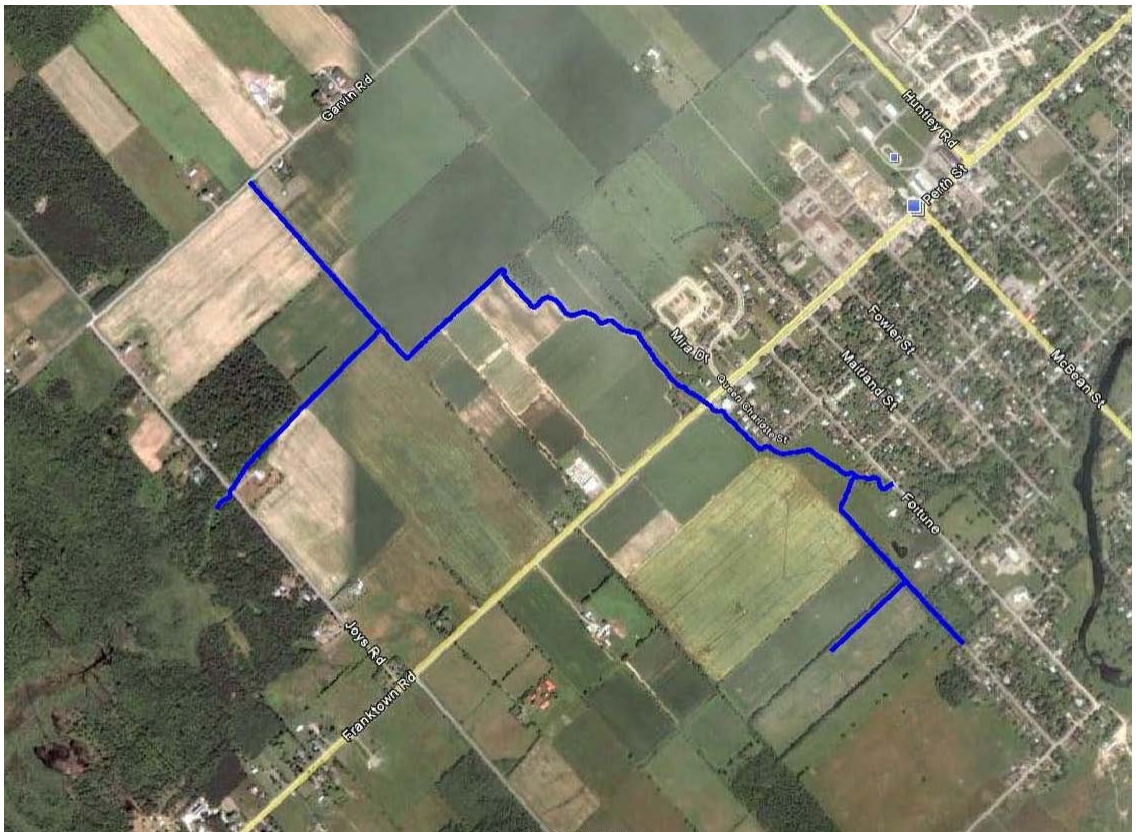

Figure 1: General Location of Subject Site and Watercourses for Flood Plain Mapping

2.0 BACKGROUND INFORMATION

A number of sources of background information were used in the preparation of this report including the RVCA, City of Ottawa and RCI and DSEL, via the City of Ottawa. A list of such information is provided below.

RVCA

- Jock River Flood Risk Mapping (within the City of Ottawa) Hydrology Report – July 2004 and Appendices (including Hydrology model inputs and outputs for Spring (Snowmelt +rainfall) events, and Summer events
- Jock River Flood Risk Mapping (within the City of Ottawa) Hydraulics Report – November 2004 and Appendices (including Hydraulic model output for 2 year through 100 year storms and floodplain maps)
- Jock River HEC-RAS model
- Jock River SWMHYMO models
- Current flood lines along Jock River and its tributaries
- Richmond aerial photo
- Cedarstone Subdivision grading plans (by Capital Engineering Group – April 2000)
- Application under Ontario Reg. 174/06 for fill placement in a regulated area, lot 22, Concession 3, Goulbourn Township, now in City of Ottawa, dated May 11th 2009, in response to an application from Mattamy Homes.

City of Ottawa

- Culvert, bridges, stream crossing information
- Map showing areas requiring floodplain mapping
- Individual base maps 1:2000 – 0.5m contours
- Existing conditions storm drainage plan (prepared by DSEL)
- Van Gaal and Arbuckle SWMHYMO models and input parameters for Spring (snowmelt + rainfall) and Summer events (prepared by DSEL)
- Map showing proposed DSEL berm to be located to the West of the Arbuckle Drain

Robinson Consultants Inc.

- Richmond Master Drainage Plan Update – March 1998
- Engineer's Report Van Gaal Municipal Drain – July 2003
- Typical cross sections of Arbuckle Drain – October 2008

AECOM

- Survey of existing farming practices within the study area

3.0 HYDROLOGIC MODEL

3.1 Van Gaal and Arbuckle Drain Flows

3.1.1 DSEL Models

- City of Ottawa provided JFSA two hydrologic models (SWMHYMO) prepared by DSEL.
- The purpose of these models is to simulate design flows through the Van Gaal drain.
- The two models received include one using summer design storms (24 hr SCS and 4 hr Chicago) and one using spring rainfall plus ten day snow melt design storms.
- DSEL delineated the total catchment area into thirteen sub-catchments, three of which drain directly to the Jock River and the remaining ten via the Van Gaal drain. The total drainage area at the outlet of the drain to the Jock River was estimated at 1147 ha. This value is lower than the lumped drainage area of 1332 ha that was estimated in the Jock River Flood Risk Mapping Hydrology Report of July 2004.
- Based on our review of the detailed drainage area delineation evaluated by DSEL and provided by the City, we have concluded that the value of 1147 ha accurately represents the total drainage area to Arbuckle and Van Gaal Municipal Drains.

3.1.2 Selection of Design Parameters

- Input parameters, previously derived by DSEL, for the sub-catchments of each of the two hydrologic models – Spring rainfall + 10 day snowmelt and Summer rainfall, were reviewed and adjusted where necessary and where more detailed modeling was required. Checks were performed on overland flow lengths, CN values and T_p calculations**.** The determination of CN values also take into account a survey of farming practices provided by AECOM. The resulting SWMHYMO model drainage plan and model parameters are presented in Appendix B.
- Some of the differences between the spring and summer hydrologic models are;
  - The spring model makes use of increased CN values to reflect saturated and partially frozen soils,
  - The design storms used in the summer model include the 24 hour SCS as well as the 4 hour Chicago 2 year, 5 year and 100 year events, based on the City of Ottawa IDF curves,
  - The design events in the spring model uses 5 year and 100 year rainfall plus 10 day snowmelt based on Atmospheric Environment Services' (AES) Model 5 for Ottawa CAD. As per the Jock River Flood Risk Mapping Hydrology Report – July 2004, daily snowmelt + rain volumes were distributed, with a 12 hour sine wave function, to simulate the heating and cooling cycle that typically occurs during the Spring (see Appendix L for additional details),

  - In the absence of measured flow data, design flows must be estimated with the use of synthetic storms. Recognized design storm events in Eastern Ontario include the SCS Type II 24 hour and Chicago design storms. The rationale for selection of design storms was also to provide consistency with the previous Jock River watershed model,
  - In the Spring model, the Manning's roughness coefficients for the channel overbanks are set to 0.05 (instead of 0.08) to reflect the lack of standing vegetation during that time of the year,
- Weighted CN values were determined based on the percentage of land use area within each sub-catchment (see Appendix B),
- Simulated hydrographs were routed through channels of typical geometry between key locations. The SWMHYMO model schematic can be found in Appendix J.

3.1.3 Hydrologic Models Used

Various hydrologic models were used to determine the necessary flow data for use in the hydraulic modeling. These models include:

- Jock River spring and summer models prepared in 2004 for the Jock River Flood Risk Mapping project. These models were used to establish the timing of the Jock River peak flow at the outlet of the Van Gaal / Arbuckle Municipal Drains.
- Individual Van Gaal / Arbuckle Municipal Drain models for spring and summer conditions prepared for this report (see Appendix C for SWMHYMO model input and output files).
- Modified versions of the Jock River spring and summer models which include the simulated outflow hydrographs from the individual Van Gaal / Arbuckle Municipal Drain models.

3.1.4 Results of Simulated Flows

The results of the simulated summer and spring flows at the outlet of the Van Gaal / Arbuckle Municipal Drains are presented in Table 1.

The results of simulated flows showed that the 4 hour Chicago storms produced lower flows that the 24 hours SCS storms. For this reason, further analysis using the Chicago storms was not required.

TABLE 1

COMPARISON OF SIMULATED PEAK FLOWS AT THE OUTLET OF THE VAN GAAL DRAIN TO THE JOCK RIVER

SUMMER AND SPRING CONDITIONS (cms)

DESIGN EVENT	JFSA
Summer 100 YR SCS	16.419
Summer 100 YR Chicago	13.433
Snowmelt+Rain 100 yr	15.777
Summer 5 YR SCS	8.110
Summer 5 YR Chicago	6.318
Snowmelt+Rain 5 yr	10.007
Summer 2 YR SCS	5.366
Summer 2 YR Chicago	4.022
Snowmelt+Rain 2 yr	7.883

3.2 Approach Taken in Determining Flows Required for Hydraulic Modeling

In order to determine the flows required for hydraulic modeling in this study, an approach was taken to investigate four scenarios, taking into account the timing of peak flows on the Van Gaal drain (VGD) and Jock River (JR). The four scenarios involve determining peak flows at specific locations at the time when:

1. The Van Gaal Drain 100 year summer peak flow reaches the Jock River
2. The Van Gaal Drain 100 year spring peak flow reaches the Jock River
3. The Jock River 100 year summer peak flow reaches the outlet of the Van Gaal Drain
4. The Jock River 100 year spring peak flow reaches the outlet of the Van Gaal Drain

A summary of these four scenarios including peak flows and time to peak on the Van Gaal Drain and Jock River is shown in Table 2.

TABLE 2
SUMMARY OF FLOW SCENARIOS

Scenario	*1*	*2*	*3*	*4*
Event Description	*VGD 100 Yr Summer Peak*	*VGD 100 Yr Spring Peak*	*JR 100 Yr Summer Peak at VGD Outlet*	*JR 100 Yr Spring Peak at VGD Outlet*
Time Since Beginning of Event (hrs)	16.00	113.50	60.00	122.00
Flow in VGD (cms)	16.42	15.78	0.00	4.37
Flow in JR (cms)	17.62	88.34	60.33	166.76

For each of these times to peak, hydrographs (see Appendices F through I) were analyzed for all cross sections indicated on Table 3. These flow combinations create the input flow data for the hydraulic analysis and used to determine maximum water surface elevations along the Van Gaal and Arbuckle Drains.

Peak flows on the Jock River were determined using a modified version of the Jock River SWMHYMO model provided by RVCA (from 2004 Jock River Flood Risk Mapping Hydrology report) with the exception of scenario 4. For scenarios 1, 2 and 3 the Jock River SWMHYMO model was adjusted to include new catchment area information for the Van Gaal drain determined in this study.

For scenario 4, 100 year peak flows on the Jock River were taken from those in the Jock River HEC-RAS model provided by RVCA, which corresponds to springtime –

observed/prorated flows determined in the 2004 Jock River Flood Risk Mapping Hydrology report. This information was not available for the other scenarios.

Through the calculations performed, it was found that Scenario 3 produced the lowest flows and resulting water levels across the Van Gaal drain. For this reason, further analysis of this scenario was not required.

The governing flow scenarios for cross sections along the drain are shown on Table 4.

It is noted that the approach taken in this study, to evaluate the 100 year flood elevations along the Van Gaal / Arbuckle Drains, differs from that taken in the previous floodplain mapping completed by PSR Group. Some of the main differences are that; i) the PSR Group HEC-RAS model extended to Fortune Street - in the current study the model is extended up to Garvin Road, ii) the flows in PSR Group HEC-RAS model on the Van Gaal/ Arbuckle Drains were assumed to be negligible when the Jock River water levels reached its 100 year peak, hence the flood elevation on the Van Gaal / Arbuckle Drains were similar to the 100 year water level of the Jock River up to Perth Street - in the current study, the timing of the 100 year peak flows on both water courses were considered to more accurately evaluate the 100 year water levels within the study area.

4.0 HYDRAULIC MODEL

- Maximum flood levels on portion of the Van Gaal / Arbuckle Municipal Drains will be influenced by flood levels on the Jock River and the greatest impact of these levels will be seen in the downstream sections closest to the River.
- Hydraulic simulations were done using the HEC-RAS software (version 3.1.3 – May 2005) to compute the 100 year water elevations to be plotted on the appropriate maps.

4.1 Base Mapping

- City of Ottawa has provided 1:2000 mapping with 0.5m contours for the majority of the area along the Van Gaal drain requiring flood plain mapping.
- The 1:2000 mapping that was not available was the area furthest upstream on the drain on the Northwest side Garvin Road (see Figure 2).

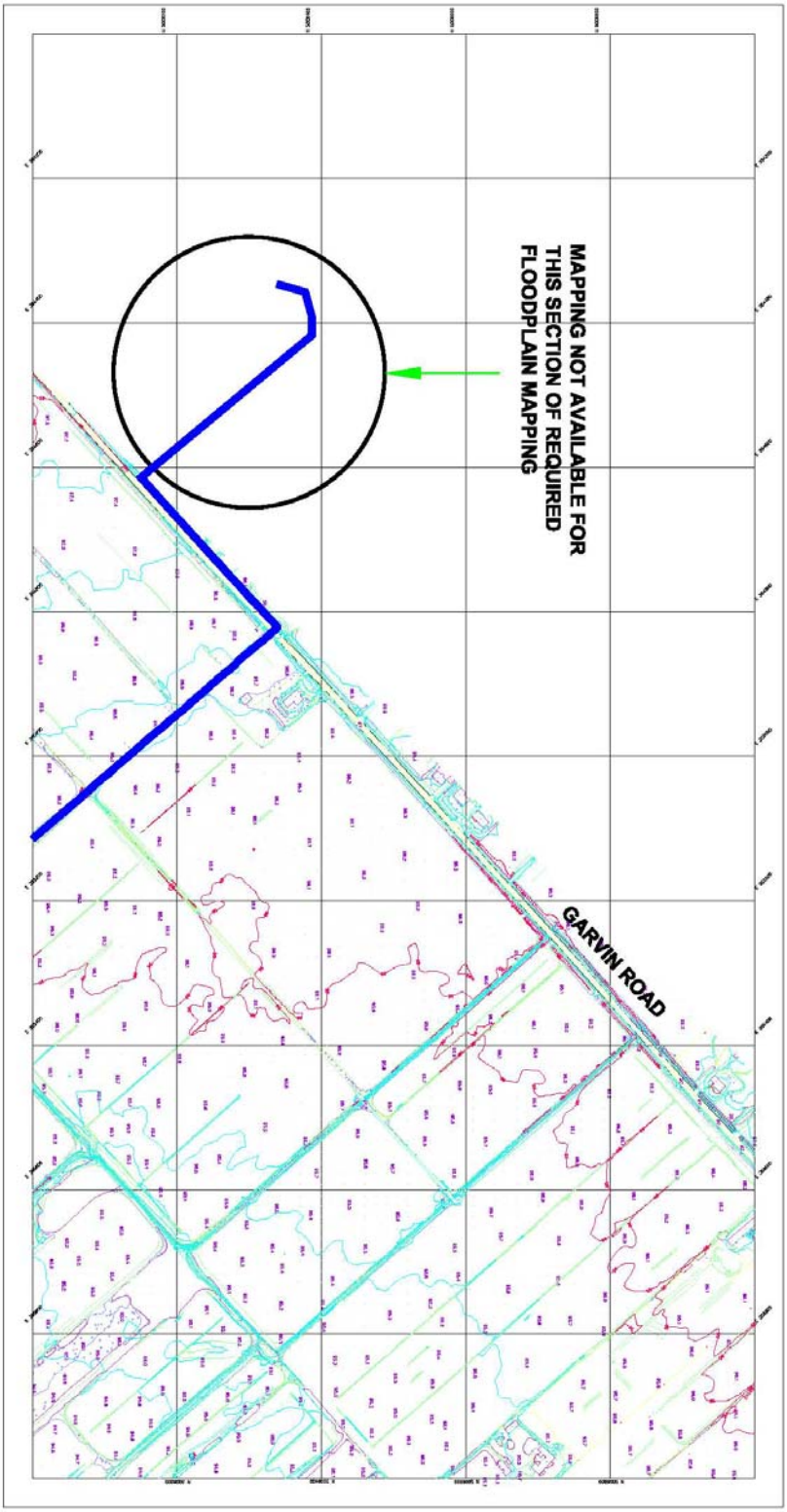

Figure 2: Limit of Base Mapping Information Available

4.2 Cross Sections

- The cross sections in the HEC-RAS model provided to us by RVCA (Jock –Lower Reach – March 2005) were unaltered (furthest upstream cross section provided on Van Gaal drain was 668 m upstream of the Jock River at Fortune Street), with the exception of cross sections 277 and 521. The channel bottom elevations were lowered at these cross sections to correspond with existing elevations indicated on 2008 drawings produced by Robinson Consultants for a separate study.
- New cross sections upstream of Fortune Street were developed using the 1:2000 mapping provided by the City of Ottawa.
- Field checks for channel and overbank (floodplain) elevations could not be completed for the majority of areas due to the denial of permission to enter private property along the drain, therefore the available 1:2000 mapping was heavily relied on.
- Cross sections were taken at locations of intervals not greater than 300m (but on average approximately 90m or less) and where there are significant changes in stream alignment.
- Manning's n values, used to characterize the friction effect of the channel and overbank material on flow were estimated using Toronto Regional Conservation Authority's "Standard Manning's Roughness Coefficients for TRCA Watershed Hydraulic Modeling". As such, a value of 0.035 was taken for all channel sections along the Van Gaal drain and 0.08 was chosen for the floodplain (pasture, agricultural, brush and forest) for summer conditions and 0.05 for spring conditions to reflect the lack of standing vegetation during that time of the year.
- Expansion and contraction coefficients of 0.1 and 0.3 respectively were used for all 'new' cross sections except at culvert locations where values of 0.3 and 0.5 were used.

4.2.1 Improvements to Cross Section Geometry

- Concerted effort was made to improve the accuracy of cross sectional geometry beyond what could be taken from 1:2000 mapping in the absence of being granted permission to undertake a complete topographical survey.
- Previous work in 2003 by Robinson Consultants (Engineer's Report Van Gaal Municipal Drain – July 2003) provided topographical information for the portion of the drain from the culvert at Perth Street and upstream to the confluence of Van Gaal East and West Main drains with the Van Gaal West Tributaries (see Appendix A).
- The information used in this study from the 2003 report was the 'proposed' cross sections, as it was indicated by Robinson Consultants that the drain was inspected at the time of construction and it is anticipated that it is built to the specifications/ proposed drawings within normal limitation. However, no 'as-built' survey was taken.

- Previous work in 2008 by Robinson Consultants provided topographical information along the Arbuckle Award Drain from the culvert at Perth Street downstream to the culvert at Fortune Street. The information used in this study from the 2008 report was the 'existing' topographical data. Proposed changes to the drain were not included in our analysis as it is our understanding that the proposed works from this report have not yet been constructed.
- For the 2008 report mentioned above, it has been indicated to JFSA by Robinson Consultants that there are limitations to the information provided. First, the drawings were not completed to the level required for mapping or floodplain assessment. The intended purpose involves a 2-5 year assessment required under the Drainage Act. The drainage scheme is interior to the floodplain (main channel) and may not be relevant in the definition of the perimeter of the floodplain. As well, the 2008 report has not yet received RVCA or Department of Fisheries and Oceans approval and therefore is considered preliminary in nature. It has been indicated that similar limitations exist for the 2003 report, although those works have already been constructed.
- Although there are limitations, JFSA has only adopted topographic information for the low flow channel, interior to the floodplain and used 1:2000 mapping to extend cross section lines to the outer boundary of the floodplain. The implementation of the information from these two Robinson Consultant reports has been discussed with and agreed upon for inclusion in this study by RVCA and the City of Ottawa.
- The use of this information has resulted in the overall lowering of low flow channel elevations along these sections of the drain when compared to just using 1:2000 mapping.
- RVCA has provided JFSA with a proposed plan by DSEL for the construction of a berm to the West of the Arbuckle Drain. The proposed geometry of this berm has been included in the JFSA cross sections for the hydraulic analysis.

4.3 Structures

- Field surveying was only completed on the Garvin Road cross culvert, the driveway culvert just upstream and Joy's Road culvert.
- Information on the Perth Street culvert was obtained from a field survey completed by JD Barnes on 07/30/2008, from the July 2003 Robinson Consultants "Engineer's Report Van Gaal Municipal Drain" and a field investigation by JFSA on November 19, 2009.
- A number of culverts along the drain that were shown on the 1:2000 mapping could not be entered into the HEC-RAS model due to the fact that detailed information (dimensions, material, etc.) was not available.
- Details of the structures considered for this study are shown in Appendix K.

4.4 Flow Combinations to Determine Maximum 100 Year Water Levels

To determine the worst case flood elevation at each cross section, the following flow scenarios, shown on Table 3, were run for the spring and summer storm events. The scenario numbers correspond to those described in Section 3.2.

TABLE 3
HEC-RAS FLOW INPUT TABLE (cms)

River	*Reach*	*River Station*[*]	SCENARIO[**]		
			1	*2*	*4*
Jock River	Reach 1	22026	5.540	167.682	156.00
Jock River	Reach 2	21359	5.773	74.628	161.76
Jock River	Reach 3	18677	17.624	88.341	166.76
Jock River	Reach 4	16872	15.385	85.979	181.76
Jock River	Reach 5	16112	16.168	143.467	180.00
Jock River	Reach 6	11769	10.864	153.565	185.00
Jock River	Reach 7	10144	8.741	152.939	196.00
Jock River	Reach 7	6550	9.652	189.823	201.00
Jock River	Reach 7	3699	5.067	211.402	205.00
Joys Road Trib	Reach 1	705	2.619	3.166	0.883
Moore Drain	Reach 1	298	2.172	2.132	0.322
Van Gaal Drain	Reach 3	3494	3.701	4.228	1.636
Van Gaal Drain	Reach 3	3322	4.021	4.588	1.651
Van Gaal Drain	Reach 3	3175	4.813	5.235	1.653
Van Gaal Drain	Reach 2	2554	7.272	8.316	2.857
Van Gaal Drain	Reach 2	2076	9.543	10.808	3.286
Van Gaal Drain	Reach 2	1340	11.434	11.619	3.426
Van Gaal Drain	Reach 2	1312	12.200	12.204	3.439
Van Gaal Drain	Reach 1	746	16.377	15.739	4.056
Van Gaal Drain	Reach 1	666	16.377	15.739	4.056
Van Gaal Drain	Reach 1	226	16.419	15.777	4.371

Note: * Refer to Appendix M for river station locations

**Scenario Descriptions:
1. The Van Gaal Drain 100 year summer peak flow reaches the Jock River
2. The Van Gaal Drain 100 year spring peak flow reaches the Jock River
4. The Jock River 100 year spring peak flow reaches the outlet of the Van Gaal Drain

4.5 Water Surface Elevation Summary

The following table summarizes the water surface elevations simulated in the hydraulic models using flow scenarios described in Section 3.2. The governing scenario and corresponding maximum water surface elevations are used to generate the floodplain area. HEC-RAS profiles and cross sections are located in Appendix D and E.

TABLE 4
SIMULATED MAXIMUM WATER ELEVATIONS ON VAN GAAL AND ARBUCKLE DRAINS (m)

			SCENARIO**			*Governing*	*Maximum*
River	*Reach*	*River Station**	*1*	*2*	*4*	*Scenario #*	*WL*
Van Gaal Drain	Reach 3	3165	96.75	96.74	96.55	1	96.75
Van Gaal Drain	Reach 3	3149	96.72	96.71	96.51	1	96.72
Van Gaal Drain	Reach 3	3086	96.64	96.63	96.40	1	96.64
Van Gaal Drain	Reach 3	3016	96.61	96.59	96.33	1	96.61
Van Gaal Drain	Reach 3	2980	96.57	96.56	96.28	1	96.57
Van Gaal Drain	Reach 3	2851	96.41	96.42	96.03	2	96.42
Van Gaal Drain	Reach 3	2808	96.38	96.39	96.01	2	96.39
Van Gaal Drain	Reach 3	2658	96.28	96.29	95.95	2	96.29
Van Gaal Drain	Reach 2	2554	96.27	96.28	95.94	2	96.28
Van Gaal Drain	Reach 2	2478	96.16	96.15	95.88	1	96.16
Van Gaal Drain	Reach 2	2157	95.47	95.48	95.03	2	95.48
Van Gaal Drain	Reach 2	2076	95.26	95.27	94.84	2	95.27
Van Gaal Drain	Reach 2	1974	95.10	95.11	94.73	2	95.11
Van Gaal Drain	Reach 2	1922	94.99	94.99	94.68	2	94.99
Van Gaal Drain	Reach 2	1833	94.85	94.85	94.62	2	94.85
Van Gaal Drain	Reach 2	1796	94.80	94.81	94.59	2	94.81
Van Gaal Drain	Reach 2	1735	94.71	94.72	94.57	2	94.72
Van Gaal Drain	Reach 2	1728	94.69	94.69	94.56	2	94.69
Van Gaal Drain	Reach 2	1727 Farm Culvert	-	-	-	-	-
Van Gaal Drain	Reach 2	1717	94.69	94.69	94.31	2	94.69
Van Gaal Drain	Reach 2	1615	94.60	94.61	94.24	2	94.61
Van Gaal Drain	Reach 2	1555	94.53	94.55	94.21	2	94.55
Van Gaal Drain	Reach 2	1488	94.45	94.45	94.18	2	94.45
Van Gaal Drain	Reach 2	1416	94.39	94.41	94.14	2	94.41

Note: * Refer to Appendix M for river station locations

**Scenario Descriptions:
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			SCENARIO**			*Governing*	*Maximum*
River	*Reach*	*River Station**	*1*	*2*	*4*	*Scenario #*	*WL*
Van Gaal Drain	Reach 2	1400	94.36	94.36	94.14	2	94.36
Van Gaal Drain	Reach 2	1364	94.31	94.29	94.13	1	94.31
Van Gaal Drain	Reach 2	1340	94.21	94.19	94.13	1	94.21
Van Gaal Drain	Reach 2	1339 Perth St. Culvert	-	-	-	-	-
Van Gaal Drain	Reach 2	1312	94.13	94.12	94.12	1	94.13
Van Gaal Drain	Reach 2	1302	94.15	94.14	94.12	1	94.15
Van Gaal Drain	Reach 2	1268	94.14	94.13	94.12	1	94.14
Van Gaal Drain	Reach 2	1212	94.10	94.11	94.12	4	94.12
Van Gaal Drain	Reach 2	1169	94.04	94.08	94.12	4	94.12
Van Gaal Drain	Reach 2	1091	93.97	94.04	94.12	4	94.12
Van Gaal Drain	Reach 2	1002	93.92	94.02	94.12	4	94.12
Van Gaal Drain	Reach 2	961	93.92	94.02	94.11	4	94.11
Van Gaal Drain	Reach 2	910	93.91	94.02	94.11	4	94.11
Van Gaal Drain	Reach 2	840	93.91	94.02	94.11	4	94.11
Van Gaal Drain	Reach 1	746	93.90	94.01	94.11	4	94.11
Van Gaal Drain	Reach 1	705	93.89	94.01	94.11	4	94.11
Van Gaal Drain	Reach 1	668	93.84	93.99	94.11	4	94.11
Van Gaal Drain	Reach 1	666	93.32	93.68	94.10	4	94.10
Van Gaal Drain	Reach 1	656 Fortune St. Culvert	-	-	-	-	-
Moore Drain	Reach 1	298	93.90	94.02	94.11	4	94.11
Moore Drain	Reach 1	130	93.91	94.02	94.11	4	94.11

Note: * Refer to Appendix M for river station locations

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			SCENARIO**			*Governing*	*Maximum*
River	*Reach*	*River Station**	*1*	*2*	*4*	*Scenario #*	*WL*
Joys Road Trib	Reach 1	705	97.59	97.79	97.10	2	97.79
Joys Road Trib	Reach 1	664	97.60	97.79	97.04	2	97.79
Joys Road Trib	Reach 1	635	97.50	97.67	97.00	2	97.67
Joys Road Trib	Reach 1	634 Joys Rd Culvert	-	-	-	-	-
Joys Road Trib	Reach 1	622	97.21	97.26	96.96	2	97.26
Joys Road Trib	Reach 1	602	97.21	97.27	96.95	2	97.27
Joys Road Trib	Reach 1	322	96.65	96.71	96.45	2	96.71
Joys Road Trib	Reach 1	275	96.50	96.56	96.20	2	96.56
Joys Road Trib	Reach 1	30	96.29	96.29	95.95	2	96.29

Note: * Refer to Appendix M for river station locations

**Scenario Descriptions:
1. The Van Gaal Drain 100 year summer peak flow reaches the Jock River
2. The Van Gaal Drain 100 year spring peak flow reaches the Jock River
4. The Jock River 100 year spring peak flow reaches the outlet of the Van Gaal Drain

The results from Table 4 indicate that the governing scenario for the cross sections between 3165 (at Garvin Road) and 1268 (approximately 70 m downstream of Perth Street) is either the Van Gaal peak summer event (Scenario 1) or the Van Gaal peak spring event (Scenario 2). The simulated water levels for these two scenarios in this area are very similar and within 0.02 m of each other.

The governing scenario for cross sections between 1212 and 656 (Fortune Street) is the Jock River Spring event during which the Jock River is simulated to back up into the Van Gaal drain.

4.5.1 Sensitivity Analysis

Hydrologic models, such as SWMHYMO (used for the Jock River and Van Gaal Drain), require numerous input data, which initially must be approximated from various sources of information (eg. watershed maps, soil maps, topographic maps, farming practices, aerial photos, etc.). These approximations can inherently introduce some uncertainty in the model results. Improved results can be achieved when measured rainfall and flow data are available and model parameters can be calibrated. As this was not available for the current analysis, a variability of +/- 20% in the simulated 100 year design flows was considered to investigate the sensitivity of HEC-RAS computed water levels along the Van Gaal and Arbuckle Drains. A table of the resulting governing water surface elevations is presented in Appendix N.

The results of this analysis can be summarized as follows:

- For an increase in design flow of 20%, the change in governing water levels along the drain is a rise up to a maximum of 0.26 m noted just upstream of the Joys Road culvert (approximately 630 m South East from Garvin Road).
- For a decrease in design flow of 20%, the change in governing water levels along the drain is a drop up to a maximum of 0.37 m noted again at the upstream side of the Joys Road culvert.
- For the area between Perth Street and approximately 740 m upstream, the change in water level under a 20% increase in flow is between 0.03 m and 0.15 m and for a 20% decrease in flow the change is between -0.01 m and -0.17 m.
- For the area between Perth Street and Fortune Street, the change in water level under a 20% increase in flow is between 0 m and 0.13 m and for a 20% decrease in flow the change is between 0 m and –0.04 m.
- For an estimate of the lands which may be affected most significantly by a 20% increase or decrease in flow estimate, please refer to Appendix N.

References

1. Toronto Regional Conservation Authority - Standard Manning's Roughness Coefficients for TRCA Watershed Hydraulic Modeling

2. Jock River Flood Risk Mapping (within the City of Ottawa) Hydraulics Report – November 2004 by PSR Group Ltd and JF Sabourin and Associates Inc.

3. Jock River Flood Risk Mapping (within the City of Ottawa) Hydrology Report – July 2004 by PSR Group Ltd and JF Sabourin and Associates Inc.

4. Richmond Master Drainage Plan Update – Robinson Consultants March 1998

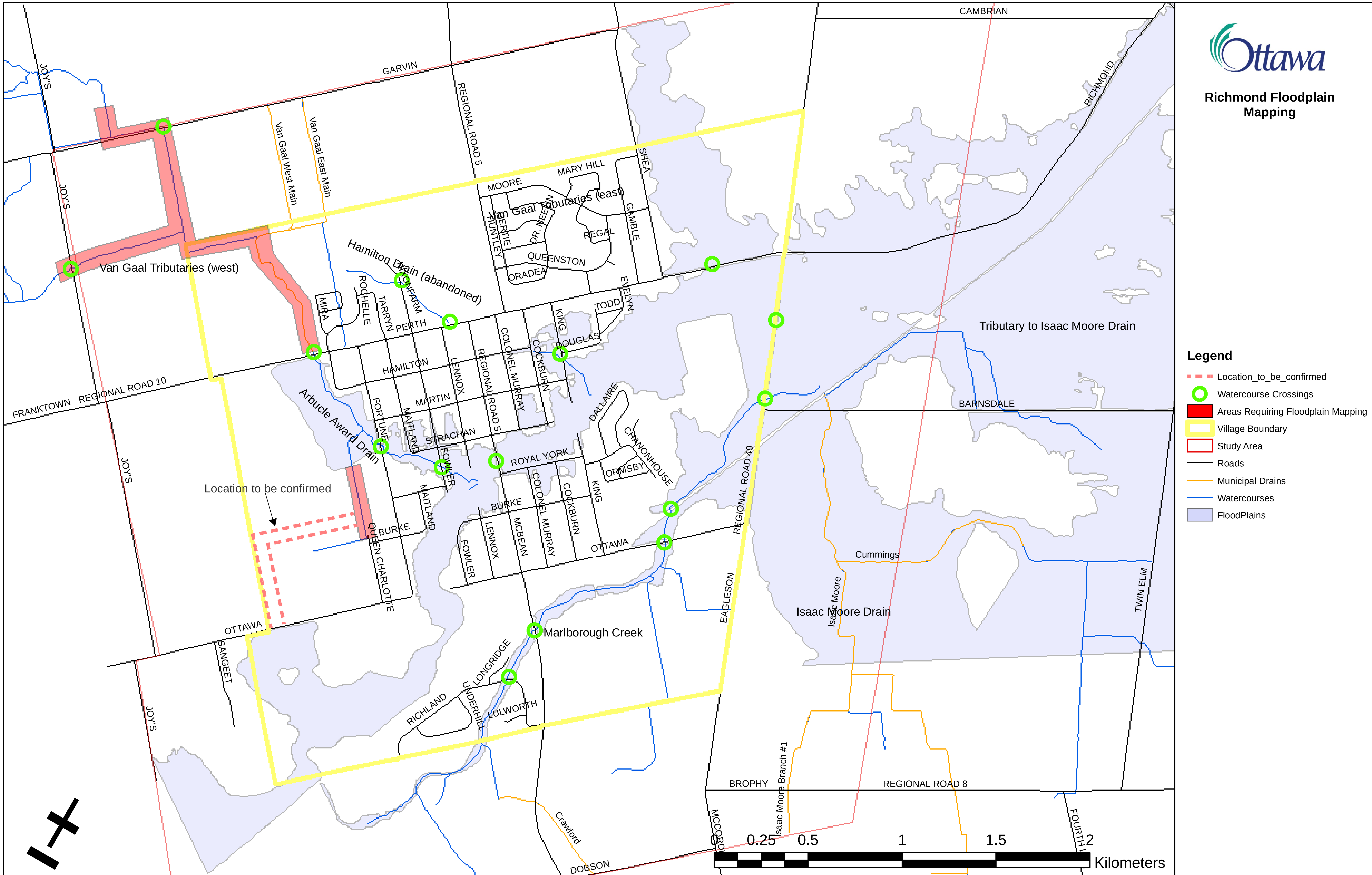
5. Engineer's Report Van Gaal Municipal Drain – Robinson Consultants July 2003

6. Typical Cross Sections – Arbuckle Drain – Robinson Consultants October 2008

7. HEC-RAS Hydraulic Reference Manual – USACE 2005

APPENDIX A

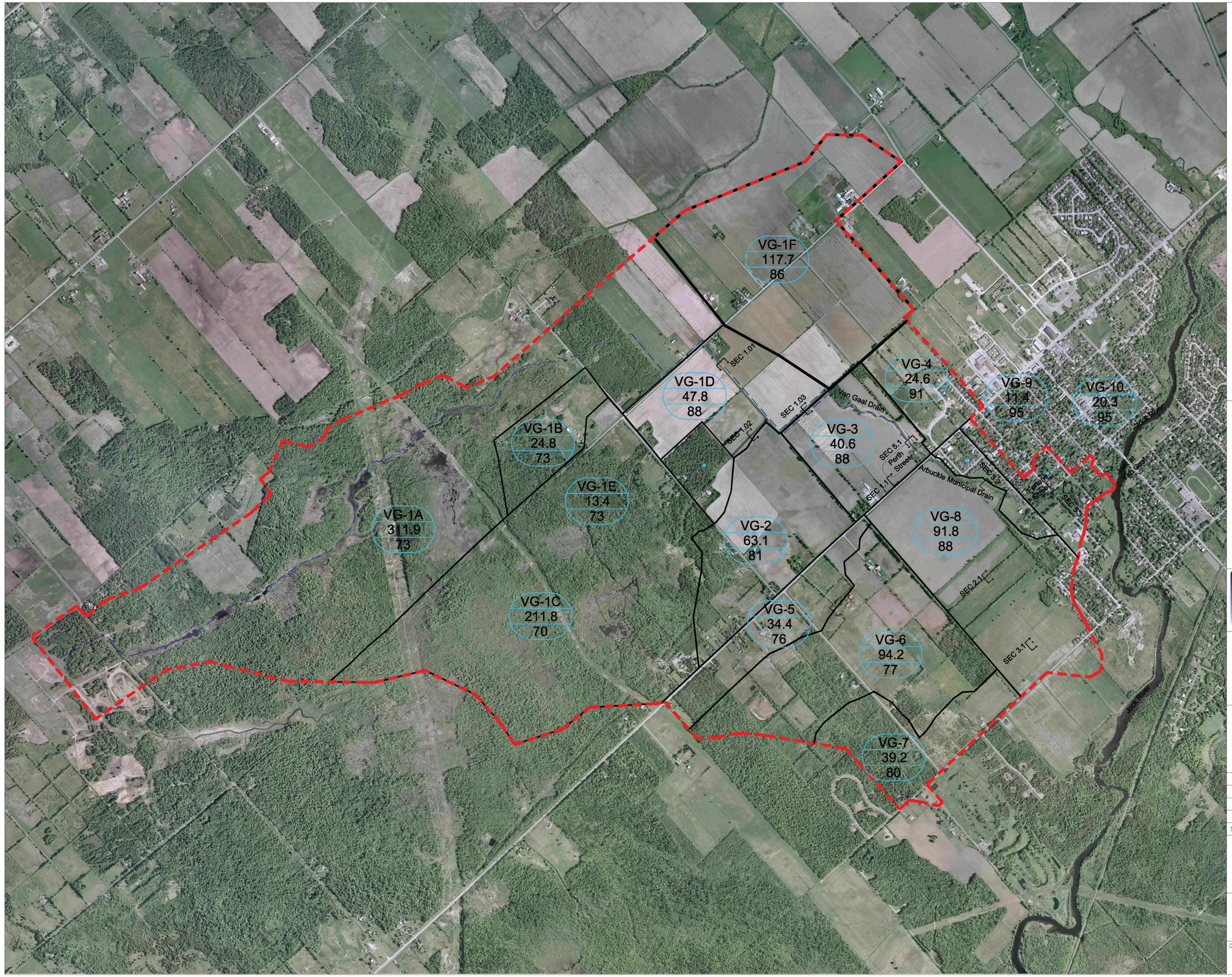
Richmond Floodplain Mapping Required



Ottawa
Richmond Floodplain Mapping
Legend
Location_to_be_confirmed
Watercourse Crossings
Areas Requiring Floodplain Mapping
Village Boundary
Study Area
Roads
Municipal Drains
Watercourses
FloodPlains
Van Gaal Tributaries (west)
Van Gaal Tributaries (east)
Hamilton Drain (abandoned)
Arbucle Award Drain
Location to be confirmed
Marlborough Creek
Tributary to Isaac Moore Drain
Isaac Moore Drain
Isaac Moore Branch #1
Cummings
Crawford
Van Gaal West Main
Van Gaal East Main
GARVIN
CAMBRIAN
RICHMOND
REGIONAL ROAD 5
REGIONAL ROAD 10
FRANKTOWN
REGIONAL ROAD 49
REGIONAL ROAD 8
BARNSDALE
BROPHY
DOBSON
JOY'S
OTTAWA
EAGLESON
TWIN ELM
0 0.25 0.5 1 1.5 2
Kilometers

APPENDIX B

JFSA Drainage Plan and SWMHYMO Input Parameters



LEGEND :

VG-1C
211.8
70

SUBCATCHMENT NAME
AREA (ha)
CN(SUMMER)

SUB-CATCHMENT LIMITS

CATCHMENT LIMITS

SEC 1.01

SWMHYMO ROUTE CHANNEL LOCATION AND ID

N

J.F. Sabourin & Associates Inc.
WATER RESOURCES AND ENVIRONMENTAL CONSULTANTS
OTTAWA (613) 836-3884
GATINEAU (819) 243-6858

CLIENT :

RIDEAU VALLEY CONSERVATION AUTHORITY
3889 RIDEAU VALLEY DRIVE
MANOTICK, ONTARIO, K4M 1A5
(613) 692-3571

PROJECT :

RICHMOND FLOODPLAIN MAPPING

No.	BY	DATE	DESCRIPTION	BY
1	BW	27/11/2009	REVISED AS PER RVCA COMMENTS	BW
1	BW	05/06/2009	ISSUED FOR REVIEW	BW

TITLE :

STORM DRAINAGE PLAN

DESIGNED:	
DRAWN:	BW
VERIFIED:	JFS
APPROVED:	JFS
DATE	PROJECT No.
NOV/09	709(08)

DRAWING REF.

CALIB NASHYD Input Parameters

Area ID	VG-1A	VG-1B	VG-1C	VG-1D	VG-1E	VG-1F	VG-2	VG-3	VG-5	VG-6	VG-7	VG-8
A (ha)	311.9	24.8	211.8	47.8	13.4	117.7	63.1	40.6	34.4	94.2	39.2	91.8
CN (-)	73	73	70	88	73	86	81	88	76	77	80	88
Ia	3.9	4.0	3.9	2.5	4.0	2.6	2.8	2.5	3.0	2.9	3.5	2.6
Tp (hrs)	5.3	2.7	4.7	1.8	0.6	2.9	1.6	1.6	2.3	3.2	2.9	2.1

Assumptions:

1) Refer to Appendix B for subcatchment descritization and detailed CN value calculations
2) Assuming antecedent Moisture Conditions II.
3) Based on 2003 City of Ottawa aerial photographs and survey of farming practices provided by AECOM, land cover is generally corn, alfalfa, soy/grain, hay and wooded with summer CN values of 88, 85, 84, 71 and 73 (70 under good hydrologic condition)
4) Initial abstraction values range from 2.5 to 4.0 mm.
5) Where subdrainage area has combined land cover the CN parameter was calculated on a weighted average of land area cover.
6) Time to peak calculated based on Tp = 0.67Tc.
7) Since land use is primarily agricultural the SCS lag equation was used to determine Tp.

Area ID	VG-1A	VG-1B	VG-1C	VG-1D	VG-1E	VG-1F	VG-2	VG-3	VG-5	VG-6	VG-7	VG-8
L (m)	4545	1710	2220	1335	335	1815	1220	1060	1540	1990	1520	1480
S (%)	0.5	0.4	0.2	0.2	0.5	0.2	0.4	0.2	0.4	0.3	0.2	0.2
Tc (min)	479.7	245.3	424.9	161.7	57.5	263.7	147.6	146.3	207.1	285.1	256.9	191.1

$$t_c = \frac{100L^{0.8}\left[\left(\frac{1000}{CN}\right)-9\right]^{0.7}}{1900S^{0.5}}$$

L, length in ft
CN, SCS runoff curve number
S, average watershed slope in (%)

LAND USE AREAS (HA) AND WEIGHTED CN FOR INPUT INTO CALIB NASHYD							
AREA ID	**Weighted CN**	**CORN (CN=88)**	**ALFALFA (CN=85)**	**SOY/GRAIN (CN=84)**	**HAY (CN=71)**	**WOODED (CN=73/70)[1)]**	**TOTAL**
VG-1A	73	10.2	-	-	19.7	282.0	311.9
VG-1B	73	-	-	-	-	24.8	24.8
VG-1C	70	-	-	-	-	211.8	211.8
VG-1D	88	47.8	-	-	-	-	47.8
VG-1E	73	2.9	-	-	-	10.5	13.4
VG-1F	86	81.2	14.1	10.6	11.8	-	117.7
VG-2	81	37.9	-	-	6.3	18.9	63.1
VG-3	88	40.6	-	-	-	-	40.6
VG-5	76	-	-	12.4	15.2	6.9	34.4
VG-6	77	-	-	41.3	23.0	29.9	94.2
VG-7	80	16.7	-	-	-	22.5	39.2
VG-8	88	91.8	-	-	-	-	91.8

NOTES: [1)] Two CN values for Wooded areas represents good hydrologic conditions (CN=70) and poor hydrologic conditions (CN=73)

APPENDIX C

JFSA SWMHYMO Inputs and Outputs

sum6JFSA.dat: JFSA input file for summer flows
sum6JFSA.sum: JFSA summary ouput file for summer flows
spr7JFSA.dat: JFSA summary input file for spring rainfall+snow melt
spr7JFSA.sum: JFSA summary ouput file for spring rainfall+snow melt

```
00001> 2     Metric units
00002> *#*************************************************************************
00003> *#  SWMHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
00004> *#*************************************************************************
00005> *#  Project Name: [Richmond FPM]    Project Number: [709]
00006> *#  Date        : 04-21-2009
00007> *#  Revised     : 05-27-2009; 07-22-2009; 08-06-2009; 08-31-2009; 11-16-2009
00008> *#  Modeller    : [Bryan Willcott B.Eng.]
00009> *#  Company     : J.F. Sabourin and Associates
00010> *#  License #   : 3410370
00011> *#*************************************************************************
00012>
00013> *#*************************************************************************
00014> *#  [BW] May 27, 2009
00015> *#  This model has been updated using revised values for Tp. Previous versions
00016> *#  of this model used a calculated Tp=0.6Tc.  This model used a calculated
00017> *#  Tp=0.67Tc.
00018> *#*************************************************************************
00019> *#  [BW] July 22, 2009
00020> *#  This model has been revised to include "existing" cross section information
00021> *#  received from Robinson Consultants.  The Cross section revised in the model
00022> *#  is Sec 5.2 (channel receiving flow from "arbuck"). Also, channel and
00023> *#  floodplain slopes for ROUTE CHANNEL commands were updated to be equal
00024> *#*************************************************************************
00025> *#  [BW] August 6, 2009
00026> *#  This model has been revised to include cross section information
00027> *#  from Robinson Consultants Engineer's Report July 2003.  The cross
00028> *#  section revised in the model is Sec 5.1.  Cross sections Sec 1.03
00029> *#  and Sec 5.3 have also been revised
00030> *#*************************************************************************
00031> *#  [BW] August 31, 2009
00032> *#  Model updated to include the proposed DSEL berm. This affects the geometry
00033> *#  of Route Channel Sect 5.2 located on the Arbuckle drain.  Route Channels 5.2
00034> *#  and 1.03 have also been revised to reduce the number of values in the
00035> *#  x-y matrix.
00036> *#*************************************************************************
00037> *#  [BW] November 16, 2009
00038> *#  Model updated to include revised CN and Tp values subsequent to review of
00039> *#  memo received from AECOM on Oct. 2, 2009
00040> *#*************************************************************************
00041> *#
00042> *% 25mm 4HR Chicago Storm
00043> START               TZERO=[0.0],  METOUT=[2],  NSTORM=[1],  NRUN=[001]
00044>                     ["4HR-25mm.stm"]
00045> *%-----------------|-------------------------------------------------------|
00046> READ STORM          STORM_FILENAME=["STORM.001"]
00047> *%-----------------|-------------------------------------------------------|
00048> *#*************************************************************************
00049> *# Van Gaal / Arbuckle Drain
00050> *#*************************************************************************
00051> *# DSEL SUBCATCHMENT VG-1 HAS BEEN BROKEN INTO 6 SUB-AREAS (BW)
00052> *#*************************************************************************
00053> *%-----------------|-------------------------------------------------------|
00054> CALIB NASHYD        ID=[1], NHYD=["VG-1A"], DT=[5]min, AREA=[311.9](ha),
00055>                     DWF=[0](cms),  CN/C=[73], IA=[3.9](mm),
00056>                     N=[3], TP=[5.3]hrs,
00057>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00058> *%-----------------|-------------------------------------------------------|
00059> SAVE HYD            ID=[1],  # OF PCYCLES=[-1],  ICASEsh=[1]
00060>                     HYD_COMMENT=["VG-1A"]
00061> *%-----------------|-------------------------------------------------------|
00062> *#*************************************************************************
00063> *# Tp FOR VG-1B HAS BEEN REVISED TO REFLECT A HYDRAULIC LENGTH OF 1710 m, A
00064> *# LENGTH THAT INCLUDES DISTANCE TO THE VG1-1 CONFLUENCE IN ADDITION TO THE
00065> *# LONGEST FLOW PATH WITHIN VG-1B. THIS IS DONE TO SIMULATE CHANNEL ROUTING
00066> *#*************************************************************************
00067> CALIB NASHYD        ID=[2], NHYD=["VG-1B"], DT=[5]min, AREA=[24.8](ha),
00068>                     DWF=[0](cms),  CN/C=[73], IA=[4.0](mm),
00069>                     N=[3], TP=[2.7]hrs,
00070>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00071> *%-----------------|-------------------------------------------------------|
00072> *#*************************************************************************
00073> *# VG1-1 IS THE SUM OF FLOWS TO THE CONFLUENCE OF NORTHERN MOST WATERCOURSE IN
00074> *# OUR AREA OF STUDY WITH THE ROADSIDE DITCH ON GARVIN ROAD
00075> *#*************************************************************************
00076> *#
00077> ADD HYD             IDsum=[3], NHYD=["VG1-1"], IDs to add=[1 2]
00078> *%-----------------|-------------------------------------------------------|
00079> SAVE HYD            ID=[3],  # OF PCYCLES=[-1],  ICASEsh=[1]
00080>                     HYD_COMMENT=["VG1-1"]
00081> *%-----------------|-------------------------------------------------------|
00082> CALIB NASHYD        ID=[4], NHYD=["VG-1D"], DT=[5]min, AREA=[47.8](ha),
00083>                     DWF=[0](cms),  CN/C=[88], IA=[2.5](mm),
00084>                     N=[3], TP=[1.8]hrs,
00085>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00086> *%-----------------|-------------------------------------------------------|
00087> *#*************************************************************************
00088> *# VG1-2 IS THE SUM OF FLOWS AT THE GARVIN ROAD CROSS CULVERT AND
00089> *# CONSERVATIVELY INCLUDES THE AREA VG-1D,  WHICH IS LOCATED JUST DOWNSTREAM
00090> *# OF THE CULVERT
00091> *#*************************************************************************
00092> *#
00093> ADD HYD             IDsum=[5], NHYD=["VG1-2"], IDs to add=[3 4]
00094> *%-----------------|-------------------------------------------------------|
00095> SAVE HYD            ID=[5],  # OF PCYCLES=[-1],  ICASEsh=[1]
00096>                     HYD_COMMENT=["VG1-2"]
00097> *%-----------------|-------------------------------------------------------|
00098> ROUTE CHANNEL       IDout=[6], NHYD=["VG1R-2"],IDin=[5],
00099>                     RDT=[5](min),
00100>                     CHLGTH=[865](m),  CHSLOPE=[0.15](%),
00101>                                         FPSLOPE=[0.15](%),
00102>                     SECNUM=[1.01],       NSEG=[3]
00103>                     ( SEGROUGH, SEGDIST (m))=[0.08,51.41 -0.035,55.58 0.08,228.3
00104>                     ( DISTANCE (m), ELEVATION (m))=[0,          96.719]
00105>                                                    [22.98, 96.598]
00106>                                                    [42.45, 96.66]
00107>                                                    [47.63, 96.5]
00108>                                                    [49.64, 96.424]
00109>                                                    [51.41, 96]
00110>                                                    [53.36, 95.79]
00111>                                                    [55.58, 95.887]
00112>                                                    [57.42, 96.242]
00113>                                                    [87.69, 96.5]
00114>                                                    [119.62,        96.509]
00115>                                                    [140.1, 96.601]
00116>                                                    [179.39,        96.722]
00117>                                                    [200.6, 96.89]
00118>                                                    [228.39,        97]
00119> *%-----------------|-------------------------------------------------------|
00120> CALIB NASHYD        ID=[7], NHYD=["VG-1C"], DT=[5]min, AREA=[211.8](ha),
00121>                     DWF=[0](cms),  CN/C=[70], IA=[3.9](mm),
00122>                     N=[3], TP=[4.7]hrs,
00123>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00124> *%-----------------|-------------------------------------------------------|
00125> CALIB NASHYD        ID=[8], NHYD=["VG-1E"], DT=[5]min, AREA=[13.4](ha),
00126>                     DWF=[0](cms),  CN/C=[73], IA=[4.0](mm),
00127>                     N=[3], TP=[0.64]hrs,
00128>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00129> *%-----------------|-------------------------------------------------------|
00130> *#*************************************************************************
00131> *# VG1-3 IS THE SUM OF FLOWS TO JOY'S ROAD CROSS CULVERT AND CONSERVATIVELY
00132> *# INCLUDES THE AREA VG-1E, WHICH IS LOCATED JUST DOWNSTREAM OF THE CULVERT
00133> *#*************************************************************************
00134> *#
00135> ADD HYD             IDsum=[9], NHYD=["VG1-3"], IDs to add=[7 8]
00136> *%-----------------|-------------------------------------------------------|
00137> SAVE HYD            ID=[9],  # OF PCYCLES=[-1],  ICASEsh=[1]
00138>                     HYD_COMMENT=["VG1-3"]
00139> *%-----------------|-------------------------------------------------------|
00140> ROUTE CHANNEL       IDout=[10], NHYD=["VG1R-3"],IDin=[9],
00141>                     RDT=[5](min),
00142>                     CHLGTH=[630](m),  CHSLOPE=[0.20](%),
```

```
                                    FPSLOPE=[0.20](%),
                   SECNUM=[1.02],       NSEG=[3]
                   ( SEGROUGH, SEGDIST (m))=[0.08,80.53 -0.035,82.4 0.08,124.53
                   ( DISTANCE (m), ELEVATION (m))=[0         97
                                                  0.61       97.01
                                                  3.8 97.03
                                                  17.49      97.18
                                                  19.18      97.17
                                                  26.62      97.15
                                                  46.29      97.12
                                                  73.97      97.17
                                                  76.3       97.04
                                                  77.53      97
                                                  80.53      96.86
                                                  81.38      96.5
                                                  82.4       96.07
                                                  87.91      96.07
                                                  89.65      96.5
                                                  90.75      96.78
                                                  91.88      96.91
                                                  96.2       97
                                                  99.01      97.1
                                                  119.73     97.14
                                                  124.53     97]
*%-----------------|-------------------------------------------------------------|
*#*****************************************************************************
*# VG1-4 IS THE SUM OF FLOWS AT THE CONFLUENCE OF THE WATERCOURSE FROM JOY'S
*# ROAD WITH THE MAIN DRAIN
*#*****************************************************************************
*#
ADD HYD            IDsum=[1], NHYD=["VG1-4"], IDs to add=[6 10]
*%-----------------|-------------------------------------------------------------|
SAVE HYD           ID=[1],  # OF PCYCLES=[-1],  ICASEsh=[1]
                   HYD_COMMENT=["VG1-4"]
*%-----------------|-------------------------------------------------------------|
ROUTE CHANNEL      IDout=[2], NHYD=["VG1R-4"],IDin=[1],
                   RDT=[5](min),
                   CHLGTH=[485](m),  CHSLOPE=[0.20](%),
                                       FPSLOPE=[0.20](%),
                   SECNUM=[1.03],       NSEG=[3]
                   ( SEGROUGH, SEGDIST (m))=[0.08,44.17 -0.035,53.58 0.08,243.3
                   ( DISTANCE (m), ELEVATION (m))=
                   [-44.2, 95.7
                   0, 95.5
                   19.69, 95.421
                   27.91, 95.5
                   31.73, 95.5
                   32.29, 95.325
                   32.71, 95.5
                   41.04, 95.5
                   44.17, 95.449
                   45.63, 95.389
                   48.22, 95
                   48.54, 94.882
                   49.35, 94.5
                   49.64, 94.311
                   50.46, 94.497
                   52.21, 94.993
                   53.58, 95.406
                   55.08, 95.333
                   55.94, 95.157
                   76.35, 95.275
                   131, 95.403
                   213.2, 95.5
                   243.3, 95.8]
*%-----------------|-------------------------------------------------------------|
CALIB NASHYD       ID=[3], NHYD=["VG-1F"], DT=[5]min, AREA=[117.7](ha),
                   DWF=[0](cms),  CN/C=[86], IA=[2.6](mm),
                   N=[3], TP=[2.9]hrs,
                   RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-------------------------------------------------------------|
*#*****************************************************************************
*# VG1 IS THE SUM OF FLOWS AT THE CONFLUENCE OF THE VAN GAAL WEST MAIN DRAIN
*# WITH VAN GAAL WEST TRIBUTARY
*#*****************************************************************************
*#
ADD HYD            IDsum=[4], NHYD=["VG1"], IDs to add=[2 3]
*%-----------------|-------------------------------------------------------------|
SAVE HYD           ID=[4],  # OF PCYCLES=[-1],  ICASEsh=[1]
                   HYD_COMMENT=["VG1"]
*%-----------------|-------------------------------------------------------------|
ROUTE CHANNEL      IDout=[5], NHYD=["VGR2-1"], IDin=[4],
                   RDT=[5](min),
                   CHLGTH=[755](m),    CHSLOPE=[0.2](%),
                                       FPSLOPE=[0.2](%),
                   SECNUM=[5.1],       NSEG=[3]
                   ( SEGROUGH, SEGDIST (m))=[0.08,98.046 -0.035,105.496 0.08,51
                   ( DISTANCE (m), ELEVATION (m))=[0,            96.11
                                                  20,           94.4
                                                  26.106, 94.5
                                                  41.686, 94.465
                                                  63.506, 94.427
                                                  84.666, 94.492
                                                  95.476, 94.363
                                                  97.736, 94
                                                  98.046, 93.967
                                                  100.336,       92.8193
                                                  101.536,       92.8193
                                                  102.736,       92.8193
                                                  105.496,       94.199
                                                  127.006,       94.345
                                                  142.116,       94.5
                                                  148.376,       94.568
                                                  478.406,       94.7
                                                  518.306,       95]
*%-----------------|-------------------------------------------------------------|
CALIB NASHYD       ID=[6], NHYD=["VG-2"], DT=[5]min, AREA=[63.1](ha),
                   DWF=[0](cms),  CN/C=[81], IA=[2.8](mm),
                   N=[3], TP=[1.6]hrs,
                   RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-------------------------------------------------------------|
ROUTE CHANNEL      IDout=[7], NHYD=["PerN"], IDin=[6],
                   RDT=[5](min),
                   CHLGTH=[550](m),  CHSLOPE=[0.2](%),
                                       FPSLOPE=[0.2](%),
                   SECNUM=[1.1],       NSEG=[3]
                   ( SEGROUGH, SEGDIST (m))=[0.08,70 -0.035,72 0.08,77] NSEG ti
                   ( DISTANCE (m), ELEVATION (m))=[0,  94.4]
                                                  [70, 94.0]
                                                  [71, 93.5]
                                                  [72, 94.0]
                                                  [77, 94.4]
*%-----------------|-------------------------------------------------------------|
CALIB NASHYD       ID=[8], NHYD=["VG-3"], DT=[5]min, AREA=[40.6](ha),
                   DWF=[0](cms),  CN/C=[88], IA=[2.5](mm),
                   N=[3], TP=[1.6]hrs,
                   RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-------------------------------------------------------------|
CALIB STANDHYD     ID=[9], NHYD=["VG-4"], DT=[5](min), AREA=[24.6](ha),
                   XIMP=[0.4], TIMP=[0.5], DWF=[0](cms), LOSS=[1],
                   Horton: Fo=[76.20](mm/hr), Fc=[13.20](mm/hr),
                          DCAY=[4.14](/hr), F=[0](mm),
                   Pervious   surfaces: IAper=[1.5](mm), SLPP=[1.5](%),
                                        LGP=[35](m), MNP=[0.250], SCP=[0](min),
                   Impervious surfaces: IAimp=[0.8](mm), SLPI=[0.3](%),
                                        LGI=[1000](m), MNI=[0.013], SCI=[0](min
                   RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*%-----------------|-------------------------------------------------------------|
ADD HYD            IDsum=[1], NHYD=["perthst"], IDs to add=[5 7 8 9]
*%-----------------|-------------------------------------------------------------|
SAVE HYD           ID=[1],  # OF PCYCLES=[-1],  ICASEsh=[1]
                   HYD_COMMENT=["perthst"]
```

```
00285> *%-----------------|-------------------------------------------------------------|
00286> CALIB NASHYD       ID=[2], NHYD=["VG-5"], DT=[5]min, AREA=[34.4](ha),
00287>                    DWF=[0](cms),  CN/C=[76], IA=[3.0](mm),
00288>                    N=[3], TP=[2.3]hrs,
00289>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00290> *%-----------------|-------------------------------------------------------------|
00291> ROUTE CHANNEL      IDout=[3], NHYD=["PerS"], IDin=[2],
00292>                    RDT=[5](min),
00293>                    CHLGTH=[550](m),  CHSLOPE=[0.2](%),
00294>                                      FPSLOPE=[0.2](%),
00295>                    SECNUM=[1.1],       NSEG=[3]
00296>                    ( SEGROUGH, SEGDIST (m))=[0.08,70 -0.035,72 0.08,77] NSEG ti
00297>                    ( DISTANCE (m), ELEVATION (m))=[0,  94.4]
00298>                                                   [70, 94.0]
00299>                                                   [71, 93.5]
00300>                                                   [72, 94.0]
00301>                                                   [77, 94.4]
00302> *%-----------------|-------------------------------------------------------------|
00303> ADD HYD            IDsum=[2], NHYD=["arbuck"], IDs to add=[1 3]
00304> *%-----------------|-------------------------------------------------------------|
00305> SAVE HYD           ID=[2],  # OF PCYCLES=[-1],  ICASEsh=[1]
00306>                    HYD_COMMENT=["arbuck"]
00307> *%-----------------|-------------------------------------------------------------|
00308> ROUTE CHANNEL      IDout=[9], NHYD=["VGR2-2"], IDin=[2],
00309>                    RDT=[5](min),
00310>                    CHLGTH=[520](m),    CHSLOPE=[0.15](%),
00311>                                        FPSLOPE=[0.15](%),
00312>                    SECNUM=[5.2],       NSEG=[3]
00313>                    ( SEGROUGH, SEGDIST (m))=[0.08,65.27 -0.035,72.03 0.08,317.3
00314>                    ( DISTANCE (m), ELEVATION (m))=
00315>                    [1.87       94
00316>                    3.26        93.815
00317>                    25.32       93.589
00318>                    40.32       93.586
00319>                    53.15       93.49
00320>                    65.27       92.99
00321>                    67.31       92.06
00322>                    69.39       91.93
00323>                    69.99       92.03
00324>                    70.75       92.68
00325>                    72.03       93
00326>                    78.14       93
00327>                    87.57       92.828
00328>                    98.82       93
00329>                    131.96      93.341
00330>                    152.55      93.318
00331>                    220.7       93.525
00332>                    262.64      93.983
00333>                    274.22      94
00334>                    286.88      94
00335>                    297.86      93.981
00336>                    314.39      94.09
00337>                    317.39, 95.09]
00338> *%-----------------|-------------------------------------------------------------|
00339> CALIB NASHYD       ID=[1], NHYD=["VG-6"], DT=[5]min, AREA=[94.2](ha),
00340>                    DWF=[0](cms),  CN/C=[77], IA=[2.9](mm),
00341>                    N=[3], TP=[3.2]hrs,
00342>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00343> *%-----------------|-------------------------------------------------------------|
00344> ROUTE CHANNEL      IDout=[2], NHYD=["VG-6"], IDin=[1],
00345>                    RDT=[5](min),
00346>                    CHLGTH=[600](m),  CHSLOPE=[0.18](%),
00347>                                      FPSLOPE=[0.18](%),
00348>                    SECNUM=[2.1],       NSEG=[3]
00349>                    ( SEGROUGH, SEGDIST (m))=[0.08,700 -0.035,703 0.08,1000] NSE
00350>                    ( DISTANCE (m), ELEVATION (m))=[0,     94.6]
00351>                                                   [700,   94.5]
00352>                                                   [701.4, 94.1]
00353>                                                   [701.6, 94.1]
00354>                                                   [703,   94.5]
00355>                                                   [1000,  95.1]
00356> *%-----------------|-------------------------------------------------------------|
00357> SAVE HYD           ID=[2],  # OF PCYCLES=[-1],  ICASEsh=[1]
00358>                    HYD_COMMENT=["VG-6"]
00359> *%-----------------|-------------------------------------------------------------|
00360> CALIB NASHYD       ID=[3], NHYD=["VG-7"], DT=[5]min, AREA=[39.2](ha),
00361>                    DWF=[0](cms),  CN/C=[80], IA=[3.5](mm),
00362>                    N=[3], TP=[2.9]hrs,
00363>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00364> *%-----------------|-------------------------------------------------------------|
00365> SAVE HYD           ID=[3],  # OF PCYCLES=[-1],  ICASEsh=[1]
00366>                    HYD_COMMENT=["VG-7"]
00367> *%-----------------|-------------------------------------------------------------|
00368> ROUTE CHANNEL      IDout=[4], NHYD=["VG-7"], IDin=[3],
00369>                    RDT=[5](min),
00370>                    CHLGTH=[1480](m),  CHSLOPE=[0.2](%),
00371>                                        FPSLOPE=[0.2](%),
00372>                    SECNUM=[3.1],       NSEG=[3]
00373>                    ( SEGROUGH, SEGDIST (m))=[0.08,50 -0.035,52 0.08,102] NSEG t
00374>                    ( DISTANCE (m), ELEVATION (m))=[0,95.2]
00375>                                                   [50,95.0]
00376>                                                   [51,94.5]
00377>                                                   [52,95.0]
00378>                                                   [102,95.2]
00379> *%-----------------|-------------------------------------------------------------|
00380> ADD HYD            IDsum=[5], NHYD=["Moore"], IDs to add=[2 4](maximum ten)
00381> *%-----------------|-------------------------------------------------------------|
00382> SAVE HYD           ID=[5],  # OF PCYCLES=[-1],  ICASEsh=[1]
00383>                    HYD_COMMENT=["Moore"]
00384> *%-----------------|-------------------------------------------------------------|
00385> CALIB NASHYD       ID=[5], NHYD=["VG-8"], DT=[5]min, AREA=[91.8](ha),
00386>                    DWF=[0](cms),  CN/C=[88], IA=[2.6](mm),
00387>                    N=[3], TP=[2.1]hrs,
00388>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00389> *%-----------------|-------------------------------------------------------------|
00390> CALIB STANDHYD     ID=[6], NHYD=["VG-9"], DT=[5](min), AREA=[11.4](ha),
00391>                    XIMP=[0.4], TIMP=[0.5], DWF=[0](cms), LOSS=[1],
00392>                    Horton: Fo=[76.20](mm/hr), Fc=[13.20](mm/hr),
00393>                            DCAY=[4.14](/hr), F=[0](mm),
00394>                    Pervious   surfaces: IAper=[1.5](mm), SLPP=[1.5](%),
00395>                                         LGP=[50](m), MNP=[0.250], SCP=[0](min),
00396>                    Impervious surfaces: IAimp=[0.8](mm), SLPI=[0.3](%),
00397>                                         LGI=[530](m), MNI=[0.013], SCI=[0](min)
00398>                    RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
00399> *%-----------------|-------------------------------------------------------------|
00400> ADD HYD            IDsum=[1], NHYD=["Fortune"], IDs to add=[2 4 5 6 9]
00401> *%-----------------|-------------------------------------------------------------|
00402> SAVE HYD           ID=[1],  # OF PCYCLES=[-1],  ICASEsh=[1]
00403>                    HYD_COMMENT=["Fortune"]
00404> *%-----------------|-------------------------------------------------------------|
00405> ROUTE CHANNEL      IDout=[3], NHYD=["VGR2-3"], IDin=[1],
00406>                    RDT=[5](min),
00407>                    CHLGTH=[750](m),    CHSLOPE=[0.2](%),
00408>                                        FPSLOPE=[0.2](%),
00409>                    SECNUM=[5.3],       NSEG=[3]
00410>                    ( SEGROUGH, SEGDIST (m))=[0.05,3.22 -0.035,47.84 0.05,77.80]
00411>                    ( DISTANCE (m), ELEVATION (m))=[0,          93.5
00412>                                                   3.22,  93
00413>                                                   20.87, 92.5
00414>                                                   42.19, 92
00415>                                                   47.84, 92
00416>                                                   48.60, 92.5
00417>                                                   50.14, 93
00418>                                                   72.67, 93.526
00419>                                                   77.80, 93.5]
00420> *%-----------------|-------------------------------------------------------------|
00421> CALIB STANDHYD     ID=[2], NHYD=["VG-10"], DT=[5](min), AREA=[20.3](ha),
00422>                    XIMP=[0.4], TIMP=[0.5], DWF=[0](cms), LOSS=[1],
00423>                    Horton: Fo=[76.20](mm/hr), Fc=[13.20](mm/hr),
00424>                            DCAY=[4.14](/hr), F=[0](mm),
00425>                    Pervious   surfaces: IAper=[1.5](mm), SLPP=[1.5](%),
00426>                                         LGP=[50](m), MNP=[0.250], SCP=[0](min),
```

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00427>                    Impervious surfaces: IAimp=[0.8](mm), SLPI=[0.3](%),
00428>                                         LGI=[560](m), MNI=[0.013], SCI=[0](min)
00429>                    RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
00430> *%----------------|-------------------------------------------------------|
00431> ADD HYD            IDsum=[9], NHYD=["JockVG"], IDs to add=[2 3]
00432> *%----------------|-------------------------------------------------------|
00433> SAVE HYD           ID=[9],  # OF PCYCLES=[-1],  ICASEsh=[1]
00434>                    HYD_COMMENT=["Flow from Van Gaal Drain at Jock River"]
00435> *%----------------|-------------------------------------------------------|
00436> *% 2 year 24 Hour SCS Type II Storm used in Jock River Model
00437> START              TZERO=[0.0],  METOUT=[2],  NSTORM=[1],  NRUN=[002]
00438>                    ["SC24002x.stm"]
00439> *%----------------|-------------------------------------------------------|
00440> *% 5 year 24 Hour SCS Type II Storm used in Jock River Model
00441> START              TZERO=[0.0],  METOUT=[2],  NSTORM=[1],  NRUN=[005]
00442>                    ["SC24005x.stm"]
00443> *%----------------|-------------------------------------------------------|
00444> *% 100 year 24 Hour SCS Type II Storm used in Jock River Model
00445> START              TZERO=[0.0],  METOUT=[2],  NSTORM=[1],  NRUN=[100]
00446>                    ["SC24100x.stm"]
00447> *%----------------|-------------------------------------------------------|
00448> *% 4 hour - 2 year Chicago Storm
00449> START              TZERO=[0.0],  METOUT=[2],  NSTORM=[1],  NRUN=[102]
00450>                    ["CH4H002x.stm"]
00451> *%----------------|-------------------------------------------------------|
00452> *% 4 hour - 5 year Chicago Storm
00453> START              TZERO=[0.0],  METOUT=[2],  NSTORM=[1],  NRUN=[105]
00454>                    ["CH4H005x.stm"]
00455> *%----------------|-------------------------------------------------------|
00456> *% 4 hour - 100 year Chicago Storm
00457> START              TZERO=[0.0],  METOUT=[2],  NSTORM=[1],  NRUN=[199]
00458>                    ["CH4H100x.stm"]
00459> *%----------------|-------------------------------------------------------|
00460> FINISH
00461>
00462>
00463>
00464>
00465>
```

```
00001> ================================================================================
00002>
00003>  SSSSS  W   W  M   M  H   H  Y   Y  M   M   OOO        999    999  =========
00004>  S      W W W  MM MM  H   H   Y Y   MM MM  O   O      9   9  9   9
00005>  SSSSS  W W W  M M M  HHHHH    Y    M M M  O   O  ##  9   9  9   9 Ver5 Beta
00006>      S   W W   M   M  H   H    Y    M   M  O   O       9999   9999 Sept 2000
00007>  SSSSS   W W   M   M  H   H    Y    M   M   OOO           9      9 =========
00008>                                                        9   9  9   9 # 3410370
00009>       StormWater Management HYdrologic Model            999    999  =========
00010>
00011>  ********************************************************************************
00012>  ************************** SWMHYMO Ver/5 Beta ************************************
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) 727-5199            ********
00019>  *******                  Gatineau, Quebec: (819) 243-6858            ********
00020>  *******                  E-Mail: swmhymo@jfsa.com                    ********
00021>  ********************************************************************************
00022>
00023>  +++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
00024>  +++++++ Licensed user: JFSAinc Ottawa                               +++++++
00025>  +++++++                Ottawa                SERIAL#:3410370        +++++++
00026>  +++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
00027>
00028>  ********************************************************************************
00029>  *******           ++++++ PROGRAM ARRAY DIMENSIONS ++++++             ********
00030>  *******           Maximum value for ID numbers  :     10             ********
00031>  *******           Max. number of rainfall points:  52750             ********
00032>  *******           Max. number of flow points    :  52750             ********
00033>  ********************************************************************************
00034>
00035>  *** DESCRIPTION SUMMARY TABLE HEADERS (units depend on METOUT in START) ***
00036>  ***-------------------------------------------------------------------***
00037>  ***    ID:  Hydrograph IDentification numbers, (1-10).                 ***
00038>  ***  NHYD:  Hydrograph reference numbers, (6 digits or characters).    ***
00039>  ***  AREA:  Drainage area associated with hydrograph, (ac.) or (ha.).  ***
00040>  *** QPEAK:  Peak flow of simulated hydrograph, (ft^3/s) or (m^3/s).    ***
00041>  *** TpeakDate_hh:mm is the date and time of the peak flow.             ***
00042>  ***  R.V.:  Runoff Volume of simulated hydrograph, (in) or (mm).       ***
00043>  ***  R.C.:  Runoff Coefficient of simulated hydrograph, (ratio).       ***
00044>  ***     *:  see WARNING or NOTE message printed at end of run.         ***
00045>  ***    **:  see  ERROR  message printed at end of run.                 ***
00046>  ********************************************************************************
00047>  ********************************************************************************
00048>
00049> ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
00050>
00051>  ********************************************************************************
00052>
00053>  ********************   S U M M A R Y   O U T P U T   *********************
00054>  ********************************************************************************
00055>  *       DATE: 2009-11-25     TIME: 18:46:27     RUN COUNTER: 001266       *
00056>  ********************************************************************************
00057>  * Input   filename: Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\sum6JFSA.D*
00058>  * Output  filename: Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\sum6JFSA.o*
00059>  * Summary filename: Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\sum6JFSA.s*
00060>  * User comments:                                                         *
00061>  * 1:_____________________________________________________________________*
00062>  * 2:_____________________________________________________________________*
00063>  * 3:_____________________________________________________________________*
00064>  ********************************************************************************
00065>
00066>
00067> #*******************************************************************************
00068> #  SWMHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
00069> #*******************************************************************************
00070> #  Project Name: [Richmond FPM]    Project Number: [709]
00071> #  Date        : 04-21-2009
00072> #  Revised     : 05-27-2009; 07-22-2009; 08-06-2009; 08-31-2009; 11-16-2009
00073> #  Modeller    : [Bryan Willcott B.Eng.]
00074> #  Company     : J.F. Sabourin and Associates
00075> #  License #   : 3410370
00076> #*******************************************************************************
00077> #*******************************************************************************
00078> #  [BW] May 27, 2009
00079> #  This model has been updated using revised values for Tp. Previous versions
00080> #  of this model used a calculated Tp=0.6Tc.  This model used a calculated
00081> #  Tp=0.67Tc.
00082> #*******************************************************************************
00083> #  [BW] July 22, 2009
00084> #  This model has been revised to include "existing" cross section information
00085> #  received from Robinson Consultants.  The Cross section revised in the model
00086> #  is Sec 5.2 (channel receiving flow from "arbuck"). Also, channel and
00087> #  floodplain slopes for ROUTE CHANNEL commands were updated to be equal
00088> #*******************************************************************************
00089> #  [BW] August 6, 2009
00090> #  This model has been revised to include cross section information
00091> #  from Robinson Consultants Engineer's Report July 2003.  The cross
00092> #  section revised in the model is Sec 5.1.  Cross sections Sec 1.03
00093> #  and Sec 5.3 have also been revised
00094> #*******************************************************************************
00095> #  [BW] August 31, 2009
00096> #  Model updated to include the proposed DSEL berm. This affects the geometry
00097> #  of Route Channel Sect 5.2 located on the Arbuckle drain.  Route Channels 5.2
00098> #  and 1.03 have also been revised to reduce the number of values in the
00099> #  x-y matrix.
00100> #*******************************************************************************
00101> #  [BW] November 16, 2009
00102> #  Model updated to include revised CN and Tp values subsequent to review of
00103> #  memo received from AECOM on Oct. 2, 2009
00104> #*******************************************************************************
00105> #
00106>  RUN:COMMAND#
00107>  001:0001-------------------------------------------------------------------------
00108>      START
00109>       [TZERO =    .00 hrs on        0]
00110>       [METOUT=   2    (1=imperial, 2=metric output)]
00111>       [NSTORM=   1 ]
00112>       [NRUN  =   1 ]
00113>  001:0002-------------------------------------------------------------------------
00114>      READ STORM
00115>       Filename = STORM.001
00116>       Comment  = 25 mm Storm 4 Hours step 10 min, City of Ottawa
00117>       [SDT=10.00:SDUR=   4.00:PTOT=  33.89]
00118> #*******************************************************************************
00119> # Van Gaal / Arbuckle Drain
00120> #*******************************************************************************
00121> # DSEL SUBCATCHMENT VG-1 HAS BEEN BROKEN INTO 6 SUB-AREAS (BW)
00122> #*******************************************************************************
00123>  001:0003--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00124>      CALIB NASHYD       01:VG-1A    311.90     .631 No_date    7:15    7.26 .214
00125>       [CN= 73.0: N= 3.00]
00126>       [Tp= 5.30:DT= 5.00]
00127>  001:0004--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00128>      SAVE HYD           01:VG-1A    311.90     .631 No_date    7:15    7.26  n/a
00129>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG-1A.001
00130>       remark:VG-1A
00131> #*******************************************************************************
00132> # Tp FOR VG-1B HAS BEEN REVISED TO REFLECT A HYDRAULIC LENGTH OF 1710 m, A
00133> # LENGTH THAT INCLUDES DISTANCE TO THE VG1-1 CONFLUENCE IN ADDITION TO THE
00134> # LONGEST FLOW PATH WITHIN VG-1B. THIS IS DONE TO SIMULATE CHANNEL ROUTING
00135> #*******************************************************************************
00136>  001:0005--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00137>      CALIB NASHYD       02:VG-1B     24.80     .091 No_date    4:45    7.21 .213
00138>       [CN= 73.0: N= 3.00]
00139>       [Tp= 2.70:DT= 5.00]
00140> #*******************************************************************************
00141> # VG1-1 IS THE SUM OF FLOWS TO THE CONFLUENCE OF NORTHERN MOST WATERCOURSE IN
00142> # OUR AREA OF STUDY WITH THE ROADSIDE DITCH ON GARVIN ROAD
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```
00143> #*******************************************************************************
00144> #
00145>  001:0006---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00146>      ADD HYD            01:VG-1A    311.90     .631 No_date    7:15    7.26  n/a
00147>                       +  02:VG-1B     24.80     .091 No_date    4:45    7.21  n/a
00148>       [DT= 5.00]  SUM=  03:VG1-1    336.70     .689 No_date    6:50    7.25  n/a
00149>  001:0007---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00150>      SAVE HYD           03:VG1-1    336.70     .689 No_date    6:50    7.25  n/a
00151>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG1-1.001
00152>       remark:VG1-1
00153>  001:0008---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00154>      CALIB NASHYD       04:VG-1D     47.80     .502 No_date    3:35   14.92 .440
00155>       [CN= 88.0: N= 3.00]
00156>       [Tp= 1.80:DT= 5.00]
00157> #*******************************************************************************
00158> # VG1-2 IS THE SUM OF FLOWS AT THE GARVIN ROAD CROSS CULVERT AND
00159> # CONSERVATIVELY INCLUDES THE AREA VG-1D,  WHICH IS LOCATED JUST DOWNSTREAM
00160> # OF THE CULVERT
00161> #*******************************************************************************
00162> #
00163>  001:0009---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00164>      ADD HYD            03:VG1-1    336.70     .689 No_date    6:50    7.25  n/a
00165>                       +  04:VG-1D     47.80     .502 No_date    3:35   14.92  n/a
00166>       [DT= 5.00]  SUM=  05:VG1-2    384.50     .966 No_date    4:45    8.21  n/a
00167>  001:0010---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00168>      SAVE HYD           05:VG1-2    384.50     .966 No_date    4:45    8.21  n/a
00169>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG1-2.001
00170>       remark:VG1-2
00171>  001:0011---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00172>      ROUTE CHANNEL   -> 05:VG1-2    384.50     .966 No_date    4:45    8.21  n/a
00173>       [RDT= 5.00] out<- 06:VG1R-2   384.50     .948 No_date    5:20    8.21  n/a
00174>       [L/S/n=  865./ .150/.035]
00175>       {Vmax=  .473:Dmax=  .452}
00176>  001:0012---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00177>      CALIB NASHYD       07:VG-1C    211.80     .428 No_date    6:40    6.48 .191
00178>       [CN= 70.0: N= 3.00]
00179>       [Tp= 4.70:DT= 5.00]
00180>  001:0013---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00181>      CALIB NASHYD       08:VG-1E     13.40     .138 No_date    2:10    7.21 .213
00182>       [CN= 73.0: N= 3.00]
00183>       [Tp=  .64:DT= 5.00]
00184> #*******************************************************************************
00185> # VG1-3 IS THE SUM OF FLOWS TO JOY'S ROAD CROSS CULVERT AND CONSERVATIVELY
00186> # INCLUDES THE AREA VG-1E, WHICH IS LOCATED JUST DOWNSTREAM OF THE CULVERT
00187> #*******************************************************************************
00188> #
00189>  001:0014---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00190>      ADD HYD            07:VG-1C    211.80     .428 No_date    6:40    6.48  n/a
00191>                       +  08:VG-1E     13.40     .138 No_date    2:10    7.21  n/a
00192>       [DT= 5.00]  SUM=  09:VG1-3    225.20     .428 No_date    6:40    6.52  n/a
00193>  001:0015---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00194>      SAVE HYD           09:VG1-3    225.20     .428 No_date    6:40    6.52  n/a
00195>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG1-3.001
00196>       remark:VG1-3
00197>  001:0016---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00198>      ROUTE CHANNEL   -> 09:VG1-3    225.20     .428 No_date    6:40    6.52  n/a
00199>       [RDT= 5.00] out<- 10:VG1R-3   225.20     .422 No_date    7:05    6.52  n/a
00200>       [L/S/n=  630./ .200/.035]
00201>       {Vmax=  .232:Dmax=  .285}
00202> #*******************************************************************************
00203> # VG1-4 IS THE SUM OF FLOWS AT THE CONFLUENCE OF THE WATERCOURSE FROM JOY'S
00204> # ROAD WITH THE MAIN DRAIN
00205> #*******************************************************************************
00206> #
00207>  001:0017---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00208>      ADD HYD            06:VG1R-2   384.50     .948 No_date    5:20    8.21  n/a
00209>                       +  10:VG1R-3   225.20     .422 No_date    7:05    6.52  n/a
00210>       [DT= 5.00]  SUM=  01:VG1-4    609.70    1.325 No_date    5:50    7.58  n/a
00211>  001:0018---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00212>      SAVE HYD           01:VG1-4    609.70    1.325 No_date    5:50    7.58  n/a
00213>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG1-4.001
00214>       remark:VG1-4
00215>  001:0019---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00216>      ROUTE CHANNEL   -> 01:VG1-4    609.70    1.325 No_date    5:50    7.58  n/a
00217>       [RDT= 5.00] out<- 02:VG1R-4   609.70    1.322 No_date    6:00    7.58  n/a
00218>       [L/S/n=  485./ .200/.035]
00219>       {Vmax=  .637:Dmax=  .830}
00220>  001:0020---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00221>      CALIB NASHYD       03:VG-1F    117.70     .766 No_date    4:50   13.48 .398
00222>       [CN= 86.0: N= 3.00]
00223>       [Tp= 2.90:DT= 5.00]
00224> #*******************************************************************************
00225> # VG1 IS THE SUM OF FLOWS AT THE CONFLUENCE OF THE VAN GAAL WEST MAIN DRAIN
00226> # WITH VAN GAAL WEST TRIBUTARY
00227> #*******************************************************************************
00228> #
00229>  001:0021---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00230>      ADD HYD            02:VG1R-4   609.70    1.322 No_date    6:00    7.58  n/a
00231>                       +  03:VG-1F    117.70     .766 No_date    4:50   13.48  n/a
00232>       [DT= 5.00]  SUM=  04:VG1      727.40    2.037 No_date    5:25    8.54  n/a
00233>  001:0022---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00234>      SAVE HYD           04:VG1      727.40    2.037 No_date    5:25    8.54  n/a
00235>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG1.001
00236>       remark:VG1
00237>  001:0023---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00238>      ROUTE CHANNEL   -> 04:VG1      727.40    2.037 No_date    5:25    8.54  n/a
00239>       [RDT= 5.00] out<- 05:VGR2-1   727.40    2.030 No_date    5:35    8.54  n/a
00240>       [L/S/n=  755./ .200/.035]
00241>       {Vmax=  .779:Dmax=  .691}
00242>  001:0024---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00243>      CALIB NASHYD       06:VG-2      63.10     .512 No_date    3:20   10.66 .315
00244>       [CN= 81.0: N= 3.00]
00245>       [Tp= 1.60:DT= 5.00]
00246>  001:0025---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00247>      ROUTE CHANNEL   -> 06:VG-2      63.10     .512 No_date    3:20   10.66  n/a
00248>       [RDT= 5.00] out<- 07:PerN      63.10     .474 No_date    4:15   10.66  n/a
00249>       [L/S/n=  550./ .200/.035]
00250>       {Vmax=  .289:Dmax=  .606}
00251>  001:0026---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00252>      CALIB NASHYD       08:VG-3      40.60     .466 No_date    3:20   14.92 .440
00253>       [CN= 88.0: N= 3.00]
00254>       [Tp= 1.60:DT= 5.00]
00255>  001:0027---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00256>      CALIB STANDHYD     09:VG-4      24.60    1.122 No_date    1:35   17.49 .516
00257>       [XIMP=.40:TIMP=.50]
00258>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00259>       [Pervious     area: IAper= 1.50:SLPP=1.50:LGP=  35.:MNP=.250:SCP=   .0]
00260>       [Impervious   area: IAimp=  .80:SLPI= .30:LGI=1000.:MNI=.013:SCI=   .0]
00261>  001:0028---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00262>      ADD HYD            05:VGR2-1   727.40    2.030 No_date    5:35    8.54  n/a
00263>                       +  07:PerN      63.10     .474 No_date    4:15   10.66  n/a
00264>                       +  08:VG-3      40.60     .466 No_date    3:20   14.92  n/a
00265>                       +  09:VG-4      24.60    1.122 No_date    1:35   17.49  n/a
00266>       [DT= 5.00]  SUM=  01:perths   855.70    2.723 No_date    4:50    9.26  n/a
00267>  001:0029---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00268>      SAVE HYD           01:perths   855.70    2.723 No_date    4:50    9.26  n/a
00269>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-perths.001
00270>       remark:perthst
00271>  001:0030---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00272>      CALIB NASHYD       02:VG-5      34.40     .172 No_date    4:15    8.59 .253
00273>       [CN= 76.0: N= 3.00]
00274>       [Tp= 2.30:DT= 5.00]
00275>  001:0031---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00276>      ROUTE CHANNEL   -> 02:VG-5      34.40     .172 No_date    4:15    8.59  n/a
00277>       [RDT= 5.00] out<- 03:PerS      34.40     .169 No_date    4:35    8.59  n/a
00278>       [L/S/n=  550./ .200/.035]
00279>       {Vmax=  .434:Dmax=  .443}
00280>  001:0032---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00281>      ADD HYD            01:perths   855.70    2.723 No_date    4:50    9.26  n/a
00282>                       +  03:PerS      34.40     .169 No_date    4:35    8.59  n/a
00283>       [DT= 5.00]  SUM=  02:arbuck   890.10    2.890 No_date    4:45    9.23  n/a
00284>  001:0033---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
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00285>      SAVE HYD           02:arbuck   890.10    2.890 No_date    4:45    9.23  n/a
00286>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-arbuck.001
00287>       remark:arbuck
00288>  001:0034--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00289>      ROUTE CHANNEL   -> 02:arbuck   890.10    2.890 No_date    4:45    9.23  n/a
00290>       [RDT= 5.00] out<- 09:VGR2-2   890.10    2.863 No_date    5:10    9.23  n/a
00291>       [L/S/n=  520./ .150/.035]
00292>       {Vmax=  .684:Dmax=  .977}
00293>  001:0035--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00294>      CALIB NASHYD       01:VG-6      94.20     .375 No_date    5:10    8.99 .265
00295>       [CN= 77.0: N= 3.00]
00296>       [Tp= 3.20:DT= 5.00]
00297>  001:0036--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00298>      ROUTE CHANNEL   -> 01:VG-6      94.20     .375 No_date    5:10    8.99  n/a
00299>       [RDT= 5.00] out<- 02:VG-6      94.20     .356 No_date    7:10    8.99  n/a
00300>       [L/S/n=  600./ .180/.035]
00301>       {Vmax=  .166:Dmax=  .416}
00302>  001:0037--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00303>      SAVE HYD           02:VG-6      94.20     .356 No_date    7:10    8.99  n/a
00304>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG-6.001
00305>       remark:VG-6
00306>  001:0038--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00307>      CALIB NASHYD       03:VG-7      39.20     .186 No_date    4:50    9.84 .290
00308>       [CN= 80.0: N= 3.00]
00309>       [Tp= 2.90:DT= 5.00]
00310>  001:0039--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00311>      SAVE HYD           03:VG-7      39.20     .186 No_date    4:50    9.84  n/a
00312>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG-7.001
00313>       remark:VG-7
00314>  001:0040--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00315>      ROUTE CHANNEL   -> 03:VG-7      39.20     .186 No_date    4:50    9.84  n/a
00316>       [RDT= 5.00] out<- 04:VG-7      39.20     .172 No_date    5:40    9.84  n/a
00317>       [L/S/n= 1480./ .200/.035]
00318>       {Vmax=  .443:Dmax=  .457}
00319>  001:0041--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00320>      ADD HYD            02:VG-6      94.20     .356 No_date    7:10    8.99  n/a
00321>                       +  04:VG-7      39.20     .172 No_date    5:40    9.84  n/a
00322>       [DT= 5.00]  SUM=  05:Moore    133.40     .510 No_date    6:35    9.24  n/a
00323>  001:0042--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00324>      SAVE HYD           05:Moore    133.40     .510 No_date    6:35    9.24  n/a
00325>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-Moore.001
00326>       remark:Moore
00327>  001:0043--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00328>      CALIB NASHYD       05:VG-8      91.80     .853 No_date    4:00   14.85 .438
00329>       [CN= 88.0: N= 3.00]
00330>       [Tp= 2.10:DT= 5.00]
00331>  001:0044--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00332>      CALIB STANDHYD     06:VG-9      11.40     .667 No_date    1:25   17.49 .516
00333>       [XIMP=.40:TIMP=.50]
00334>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00335>       [Pervious     area: IAper= 1.50:SLPP=1.50:LGP=  50.:MNP=.250:SCP=   .0]
00336>       [Impervious   area: IAimp=  .80:SLPI= .30:LGI= 530.:MNI=.013:SCI=   .0]
00337>  001:0045--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00338>      ADD HYD            02:VG-6      94.20     .356 No_date    7:10    8.99  n/a
00339>                       +  04:VG-7      39.20     .172 No_date    5:40    9.84  n/a
00340>                       +  05:VG-8      91.80     .853 No_date    4:00   14.85  n/a
00341>                       +  06:VG-9      11.40     .667 No_date    1:25   17.49  n/a
00342>                       +  09:VGR2-2   890.10    2.863 No_date    5:10    9.23  n/a
00343>       [DT= 5.00]  SUM=  01:Fortun  1126.70    4.068 No_date    4:50    9.77  n/a
00344>  001:0046--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00345>      SAVE HYD           01:Fortun  1126.70    4.068 No_date    4:50    9.77  n/a
00346>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-Fortun.001
00347>       remark:Fortune
00348>  001:0047--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00349>      ROUTE CHANNEL   -> 01:Fortun  1126.70    4.068 No_date    4:50    9.77  n/a
00350>       [RDT= 5.00] out<- 03:VGR2-3  1126.70    4.021 No_date    5:10    9.77  n/a
00351>       [L/S/n=  750./ .200/.035]
00352>       {Vmax=  .545:Dmax=  .465}
00353>  001:0048--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00354>      CALIB STANDHYD     02:VG-10     20.30    1.172 No_date    1:25   17.49 .516
00355>       [XIMP=.40:TIMP=.50]
00356>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00357>       [Pervious     area: IAper= 1.50:SLPP=1.50:LGP=  50.:MNP=.250:SCP=   .0]
00358>       [Impervious   area: IAimp=  .80:SLPI= .30:LGI= 560.:MNI=.013:SCI=   .0]
00359>  001:0049--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00360>      ADD HYD            02:VG-10     20.30    1.172 No_date    1:25   17.49  n/a
00361>                       +  03:VGR2-3  1126.70    4.021 No_date    5:10    9.77  n/a
00362>       [DT= 5.00]  SUM=  09:JockVG  1147.00    4.022 No_date    5:10    9.91  n/a
00363>  001:0050--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00364>      SAVE HYD           09:JockVG  1147.00    4.022 No_date    5:10    9.91  n/a
00365>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-JockVG.001
00366>       remark:Flow from Van Gaal Drain at Jock River
00367>   ** END OF RUN :   1
00368>
00369> ****************************************************************************
00370>
00371>
00372>
00373>
00374>
00375>  RUN:COMMAND#
00376>  002:0001----------------------------------------------------------------------
00377>      START
00378>       [TZERO =    .00 hrs on        0]
00379>       [METOUT=   2    (1=imperial, 2=metric output)]
00380>       [NSTORM=   1 ]
00381>       [NRUN  =   2 ]
00382> #****************************************************************************
00383> #  SWMHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
00384> #****************************************************************************
00385> #  Project Name: [Richmond FPM]    Project Number: [709]
00386> #  Date        : 04-21-2009
00387> #  Revised     : 05-27-2009; 07-22-2009; 08-06-2009; 08-31-2009; 11-16-2009
00388> #  Modeller    : [Bryan Willcott B.Eng.]
00389> #  Company     : J.F. Sabourin and Associates
00390> #  License #   : 3410370
00391> #****************************************************************************
00392> #****************************************************************************
00393> #  [BW] May 27, 2009
00394> #  This model has been updated using revised values for Tp. Previous versions
00395> #  of this model used a calculated Tp=0.6Tc.  This model used a calculated
00396> #  Tp=0.67Tc.
00397> #****************************************************************************
00398> #  [BW] July 22, 2009
00399> #  This model has been revised to include "existing" cross section information
00400> #  received from Robinson Consultants.  The Cross section revised in the model
00401> #  is Sec 5.2 (channel receiving flow from "arbuck"). Also, channel and
00402> #  floodplain slopes for ROUTE CHANNEL commands were updated to be equal
00403> #****************************************************************************
00404> #  [BW] August 6, 2009
00405> #  This model has been revised to include cross section information
00406> #  from Robinson Consultants Engineer's Report July 2003.  The cross
00407> #  section revised in the model is Sec 5.1.  Cross sections Sec 1.03
00408> #  and Sec 5.3 have also been revised
00409> #****************************************************************************
00410> #  [BW] August 31, 2009
00411> #  Model updated to include the proposed DSEL berm. This affects the geometry
00412> #  of Route Channel Sect 5.2 located on the Arbuckle drain.  Route Channels 5.2
00413> #  and 1.03 have also been revised to reduce the number of values in the
00414> #  x-y matrix.
00415> #****************************************************************************
00416> #  [BW] November 16, 2009
00417> #  Model updated to include revised CN and Tp values subsequent to review of
00418> #  memo received from AECOM on Oct. 2, 2009
00419> #****************************************************************************
00420> #
00421>  002:0002----------------------------------------------------------------------
00422>      READ STORM
00423>       Filename = STORM.001
00424>       Comment  = 2 years SCS Type 2 Storm 24 Hours step 10 min, City of Ottaw
00425>       [SDT=10.00:SDUR=  24.00:PTOT=  48.46]
00426> #****************************************************************************
```

```
# Van Gaal / Arbuckle Drain
#*****************************************************************************
# DSEL SUBCATCHMENT VG-1 HAS BEEN BROKEN INTO 6 SUB-AREAS (BW)
#*****************************************************************************
 002:0003--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     CALIB NASHYD       01:VG-1A    311.90     .965 No_date   18:20   14.33 .296
       [CN= 73.0: N= 3.00]
       [Tp= 5.30:DT= 5.00]
 002:0004--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     SAVE HYD           01:VG-1A    311.90     .965 No_date   18:20   14.33  n/a
       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG-1A.002
       remark:VG-1A
#*****************************************************************************
# Tp FOR VG-1B HAS BEEN REVISED TO REFLECT A HYDRAULIC LENGTH OF 1710 m, A
# LENGTH THAT INCLUDES DISTANCE TO THE VG1-1 CONFLUENCE IN ADDITION TO THE
# LONGEST FLOW PATH WITHIN VG-1B. THIS IS DONE TO SIMULATE CHANNEL ROUTING
#*****************************************************************************
 002:0005--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     CALIB NASHYD       02:VG-1B     24.80     .129 No_date   15:05   14.28 .295
       [CN= 73.0: N= 3.00]
       [Tp= 2.70:DT= 5.00]
#*****************************************************************************
# VG1-1 IS THE SUM OF FLOWS TO THE CONFLUENCE OF NORTHERN MOST WATERCOURSE IN
# OUR AREA OF STUDY WITH THE ROADSIDE DITCH ON GARVIN ROAD
#*****************************************************************************
#
 002:0006--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     ADD HYD            01:VG-1A    311.90     .965 No_date   18:20   14.33  n/a
                    +  02:VG-1B     24.80     .129 No_date   15:05   14.28  n/a
       [DT= 5.00]  SUM=  03:VG1-1    336.70    1.047 No_date   17:55   14.33  n/a
 002:0007--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     SAVE HYD           03:VG1-1    336.70    1.047 No_date   17:55   14.33  n/a
       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG1-1.002
       remark:VG1-1
 002:0008--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     CALIB NASHYD       04:VG-1D     47.80     .652 No_date   13:50   26.20 .541
       [CN= 88.0: N= 3.00]
       [Tp= 1.80:DT= 5.00]
#*****************************************************************************
# VG1-2 IS THE SUM OF FLOWS AT THE GARVIN ROAD CROSS CULVERT AND
# CONSERVATIVELY INCLUDES THE AREA VG-1D,  WHICH IS LOCATED JUST DOWNSTREAM
# OF THE CULVERT
#*****************************************************************************
#
 002:0009--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     ADD HYD            03:VG1-1    336.70    1.047 No_date   17:55   14.33  n/a
                    +  04:VG-1D     47.80     .652 No_date   13:50   26.20  n/a
       [DT= 5.00]  SUM=  05:VG1-2    384.50    1.329 No_date   15:35   15.81  n/a
 002:0010--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     SAVE HYD           05:VG1-2    384.50    1.329 No_date   15:35   15.81  n/a
       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG1-2.002
       remark:VG1-2
 002:0011--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     ROUTE CHANNEL   -> 05:VG1-2    384.50    1.329 No_date   15:35   15.81  n/a
       [RDT= 5.00] out<- 06:VG1R-2   384.50    1.314 No_date   16:30   15.81  n/a
       [L/S/n=  865./ .150/.035]
       {Vmax=  .457:Dmax=  .527}
 002:0012--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     CALIB NASHYD       07:VG-1C    211.80     .647 No_date   17:35   12.94 .267
       [CN= 70.0: N= 3.00]
       [Tp= 4.70:DT= 5.00]
 002:0013--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     CALIB NASHYD       08:VG-1E     13.40     .206 No_date   12:35   14.28 .295
       [CN= 73.0: N= 3.00]
       [Tp=  .64:DT= 5.00]
#*****************************************************************************
# VG1-3 IS THE SUM OF FLOWS TO JOY'S ROAD CROSS CULVERT AND CONSERVATIVELY
# INCLUDES THE AREA VG-1E, WHICH IS LOCATED JUST DOWNSTREAM OF THE CULVERT
#*****************************************************************************
#
 002:0014--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     ADD HYD            07:VG-1C    211.80     .647 No_date   17:35   12.94  n/a
                    +  08:VG-1E     13.40     .206 No_date   12:35   14.28  n/a
       [DT= 5.00]  SUM=  09:VG1-3    225.20     .664 No_date   17:30   13.02  n/a
 002:0015--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     SAVE HYD           09:VG1-3    225.20     .664 No_date   17:30   13.02  n/a
       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG1-3.002
       remark:VG1-3
 002:0016--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     ROUTE CHANNEL   -> 09:VG1-3    225.20     .664 No_date   17:30   13.02  n/a
       [RDT= 5.00] out<- 10:VG1R-3   225.20     .659 No_date   18:00   13.02  n/a
       [L/S/n=  630./ .200/.035]
       {Vmax=  .271:Dmax=  .365}
#*****************************************************************************
# VG1-4 IS THE SUM OF FLOWS AT THE CONFLUENCE OF THE WATERCOURSE FROM JOY'S
# ROAD WITH THE MAIN DRAIN
#*****************************************************************************
#
 002:0017--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     ADD HYD            06:VG1R-2   384.50    1.314 No_date   16:30   15.81  n/a
                    +  10:VG1R-3   225.20     .659 No_date   18:00   13.02  n/a
       [DT= 5.00]  SUM=  01:VG1-4    609.70    1.948 No_date   17:20   14.78  n/a
 002:0018--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     SAVE HYD           01:VG1-4    609.70    1.948 No_date   17:20   14.78  n/a
       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG1-4.002
       remark:VG1-4
 002:0019--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     ROUTE CHANNEL   -> 01:VG1-4    609.70    1.948 No_date   17:20   14.78  n/a
       [RDT= 5.00] out<- 02:VG1R-4   609.70    1.944 No_date   17:35   14.78  n/a
       [L/S/n=  485./ .200/.035]
       {Vmax=  .542:Dmax=  .944}
 002:0020--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     CALIB NASHYD       03:VG-1F    117.70    1.010 No_date   15:10   24.11 .498
       [CN= 86.0: N= 3.00]
       [Tp= 2.90:DT= 5.00]
#*****************************************************************************
# VG1 IS THE SUM OF FLOWS AT THE CONFLUENCE OF THE VAN GAAL WEST MAIN DRAIN
# WITH VAN GAAL WEST TRIBUTARY
#*****************************************************************************
#
 002:0021--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     ADD HYD            02:VG1R-4   609.70    1.944 No_date   17:35   14.78  n/a
                    +  03:VG-1F     117.70    1.010 No_date   15:10   24.11  n/a
       [DT= 5.00]  SUM=  04:VG1      727.40    2.796 No_date   16:35   16.29  n/a
 002:0022--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     SAVE HYD           04:VG1      727.40    2.796 No_date   16:35   16.29  n/a
       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG1.002
       remark:VG1
 002:0023--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     ROUTE CHANNEL   -> 04:VG1      727.40    2.796 No_date   16:35   16.29  n/a
       [RDT= 5.00] out<- 05:VGR2-1   727.40    2.792 No_date   16:35   16.29  n/a
       [L/S/n=  755./ .200/.035]
       {Vmax=  .850:Dmax=  .815}
 002:0024--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     CALIB NASHYD       06:VG-2      63.10     .695 No_date   13:40   19.81 .409
       [CN= 81.0: N= 3.00]
       [Tp= 1.60:DT= 5.00]
 002:0025--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     ROUTE CHANNEL   -> 06:VG-2      63.10     .695 No_date   13:40   19.81  n/a
       [RDT= 5.00] out<- 07:PerN     63.10     .628 No_date   14:30   19.81  n/a
       [L/S/n=  550./ .200/.035]
       {Vmax=  .254:Dmax=  .644}
 002:0026--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     CALIB NASHYD       08:VG-3      40.60     .606 No_date   13:40   26.20 .541
       [CN= 88.0: N= 3.00]
       [Tp= 1.60:DT= 5.00]
 002:0027--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     CALIB STANDHYD     09:VG-4      24.60    1.220 No_date   12:15   25.41 .524
       [XIMP=.40:TIMP=.50]
       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
       [Pervious     area: IAper= 1.50:SLPP=1.50:LGP=  35.:MNP=.250:SCP=   .0]
       [Impervious   area: IAimp=  .80:SLPI= .30:LGI=1000.:MNI=.013:SCI=   .0]
```

```
00569>  002:0028--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00570>      ADD HYD           05:VGR2-1   727.40    2.792 No_date   16:35   16.29  n/a
00571>                      +  07:PerN      63.10     .628 No_date   14:30   19.81  n/a
00572>                      +  08:VG-3      40.60     .606 No_date   13:40   26.20  n/a
00573>                      +  09:VG-4      24.60    1.220 No_date   12:15   25.41  n/a
00574>       [DT= 5.00]  SUM=  01:perths   855.70    3.640 No_date   15:20   17.28  n/a
00575>  002:0029--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00576>      SAVE HYD          01:perths   855.70    3.640 No_date   15:20   17.28  n/a
00577>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-perths.002
00578>       remark:perthst
00579>  002:0030--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00580>      CALIB NASHYD      02:VG-5      34.40     .235 No_date   14:30   16.44 .339
00581>       [CN= 76.0: N= 3.00]
00582>       [Tp= 2.30:DT= 5.00]
00583>  002:0031--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00584>      ROUTE CHANNEL   -> 02:VG-5      34.40     .235 No_date   14:30   16.44  n/a
00585>       [RDT= 5.00] out<- 03:PerS      34.40     .232 No_date   14:50   16.44  n/a
00586>       [L/S/n=  550./ .200/.035]
00587>       {Vmax=  .470:Dmax=  .500}
00588>  002:0032--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00589>      ADD HYD           01:perths   855.70    3.640 No_date   15:20   17.28  n/a
00590>                      +  03:PerS      34.40     .232 No_date   14:50   16.44  n/a
00591>       [DT= 5.00]  SUM=  02:arbuck   890.10    3.867 No_date   15:10   17.25  n/a
00592>  002:0033--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00593>      SAVE HYD          02:arbuck   890.10    3.867 No_date   15:10   17.25  n/a
00594>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-arbuck.002
00595>       remark:arbuck
00596>  002:0034--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00597>      ROUTE CHANNEL   -> 02:arbuck   890.10    3.867 No_date   15:10   17.25  n/a
00598>       [RDT= 5.00] out<- 09:VGR2-2   890.10    3.841 No_date   15:40   17.25  n/a
00599>       [L/S/n=  520./ .150/.035]
00600>       {Vmax=  .570:Dmax= 1.086}
00601>  002:0035--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00602>      CALIB NASHYD      01:VG-6      94.20     .518 No_date   15:35   17.09 .353
00603>       [CN= 77.0: N= 3.00]
00604>       [Tp= 3.20:DT= 5.00]
00605>  002:0036--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00606>      ROUTE CHANNEL   -> 01:VG-6      94.20     .518 No_date   15:35   17.09  n/a
00607>       [RDT= 5.00] out<- 02:VG-6      94.20     .460 No_date   19:00   17.09  n/a
00608>       [L/S/n=  600./ .180/.035]
00609>       {Vmax=  .098:Dmax=  .435}
00610>  002:0037--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00611>      SAVE HYD          02:VG-6      94.20     .460 No_date   19:00   17.09  n/a
00612>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG-6.002
00613>       remark:VG-6
00614>  002:0038--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00615>      CALIB NASHYD      03:VG-7      39.20     .255 No_date   15:15   18.63 .385
00616>       [CN= 80.0: N= 3.00]
00617>       [Tp= 2.90:DT= 5.00]
00618>  002:0039--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00619>      SAVE HYD          03:VG-7      39.20     .255 No_date   15:15   18.63  n/a
00620>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG-7.002
00621>       remark:VG-7
00622>  002:0040--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00623>      ROUTE CHANNEL   -> 03:VG-7      39.20     .255 No_date   15:15   18.63  n/a
00624>       [RDT= 5.00] out<- 04:VG-7      39.20     .244 No_date   16:20   18.63  n/a
00625>       [L/S/n= 1480./ .200/.035]
00626>       {Vmax=  .427:Dmax=  .510}
00627>  002:0041--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00628>      ADD HYD           02:VG-6      94.20     .460 No_date   19:00   17.09  n/a
00629>                      +  04:VG-7      39.20     .244 No_date   16:20   18.63  n/a
00630>       [DT= 5.00]  SUM=  05:Moore    133.40     .665 No_date   17:15   17.54  n/a
00631>  002:0042--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00632>      SAVE HYD          05:Moore    133.40     .665 No_date   17:15   17.54  n/a
00633>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-Moore.002
00634>       remark:Moore
00635>  002:0043--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00636>      CALIB NASHYD      05:VG-8      91.80    1.108 No_date   14:15   26.12 .539
00637>       [CN= 88.0: N= 3.00]
00638>       [Tp= 2.10:DT= 5.00]
00639>  002:0044--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00640>      CALIB STANDHYD     06:VG-9      11.40     .625 No_date   12:10   25.41 .524
00641>       [XIMP=.40:TIMP=.50]
00642>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00643>       [Pervious     area: IAper= 1.50:SLPP=1.50:LGP=  50.:MNP=.250:SCP=   .0]
00644>       [Impervious   area: IAimp=  .80:SLPI= .30:LGI= 530.:MNI=.013:SCI=   .0]
00645>  002:0045--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00646>      ADD HYD           02:VG-6      94.20     .460 No_date   19:00   17.09  n/a
00647>                      +  04:VG-7      39.20     .244 No_date   16:20   18.63  n/a
00648>                      +  05:VG-8      91.80    1.108 No_date   14:15   26.12  n/a
00649>                      +  06:VG-9      11.40     .625 No_date   12:10   25.41  n/a
00650>                      +  09:VGR2-2   890.10    3.841 No_date   15:40   17.25  n/a
00651>       [DT= 5.00]  SUM=  01:Fortun  1126.70    5.365 No_date   15:25   18.09  n/a
00652>  002:0046--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00653>      SAVE HYD          01:Fortun  1126.70    5.365 No_date   15:25   18.09  n/a
00654>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-Fortun.002
00655>       remark:Fortune
00656>  002:0047--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00657>      ROUTE CHANNEL   -> 01:Fortun  1126.70    5.365 No_date   15:25   18.09  n/a
00658>       [RDT= 5.00] out<- 03:VGR2-3  1126.70    5.333 No_date   15:40   18.09  n/a
00659>       [L/S/n=  750./ .200/.035]
00660>       {Vmax=  .587:Dmax=  .525}
00661>  002:0048--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00662>      CALIB STANDHYD     02:VG-10     20.30    1.103 No_date   12:10   25.41 .524
00663>       [XIMP=.40:TIMP=.50]
00664>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00665>       [Pervious     area: IAper= 1.50:SLPP=1.50:LGP=  50.:MNP=.250:SCP=   .0]
00666>       [Impervious   area: IAimp=  .80:SLPI= .30:LGI= 560.:MNI=.013:SCI=   .0]
00667>  002:0049--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00668>      ADD HYD           02:VG-10     20.30    1.103 No_date   12:10   25.41  n/a
00669>                      +  03:VGR2-3  1126.70    5.333 No_date   15:40   18.09  n/a
00670>       [DT= 5.00]  SUM=  09:JockVG  1147.00    5.366 No_date   15:40   18.22  n/a
00671>  002:0050--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00672>      SAVE HYD          09:JockVG  1147.00    5.366 No_date   15:40   18.22  n/a
00673>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-JockVG.002
00674>       remark:Flow from Van Gaal Drain at Jock River
00675>   ** END OF RUN :   4
00676>
00677> ************************************************************************
00678>
00679>
00680>
00681>
00682>
00683>  RUN:COMMAND#
00684>  005:0001--------------------------------------------------------------------------
00685>      START
00686>       [TZERO =    .00 hrs on        0]
00687>       [METOUT=   2    (1=imperial, 2=metric output)]
00688>       [NSTORM=   1 ]
00689>       [NRUN  =   5 ]
00690> #************************************************************************
00691> #  SWMHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
00692> #************************************************************************
00693> #  Project Name: [Richmond FPM]    Project Number: [709]
00694> #  Date        : 04-21-2009
00695> #  Revised     : 05-27-2009; 07-22-2009; 08-06-2009; 08-31-2009; 11-16-2009
00696> #  Modeller    : [Bryan Willcott B.Eng.]
00697> #  Company     : J.F. Sabourin and Associates
00698> #  License #   : 3410370
00699> #************************************************************************
00700> #************************************************************************
00701> #  [BW] May 27, 2009
00702> #  This model has been updated using revised values for Tp. Previous versions
00703> #  of this model used a calculated Tp=0.6Tc.  This model used a calculated
00704> #  Tp=0.67Tc.
00705> #************************************************************************
00706> #  [BW] July 22, 2009
00707> #  This model has been revised to include "existing" cross section information
00708> #  received from Robinson Consultants.  The Cross section revised in the model
00709> #  is Sec 5.2 (channel receiving flow from "arbuck"). Also, channel and
00710> #  floodplain slopes for ROUTE CHANNEL commands were updated to be equal
```

```
00711> #*******************************************************************************
00712> #  [BW] August 6, 2009
00713> #  This model has been revised to include cross section information
00714> #  from Robinson Consultants Engineer's Report July 2003.  The cross
00715> #  section revised in the model is Sec 5.1.  Cross sections Sec 1.03
00716> #  and Sec 5.3 have also been revised
00717> #*******************************************************************************
00718> #  [BW] August 31, 2009
00719> #  Model updated to include the proposed DSEL berm. This affects the geometry
00720> #  of Route Channel Sect 5.2 located on the Arbuckle drain.  Route Channels 5.2
00721> #  and 1.03 have also been revised to reduce the number of values in the
00722> #  x-y matrix.
00723> #*******************************************************************************
00724> #  [BW] November 16, 2009
00725> #  Model updated to include revised CN and Tp values subsequent to review of
00726> #  memo received from AECOM on Oct. 2, 2009
00727> #*******************************************************************************
00728> #
00729>  005:0002--------------------------------------------------------------------
00730>      READ STORM
00731>       Filename = STORM.001
00732>       Comment  = 5 years SCS Type 2 Storm 24 Hours step 10 min, City of Ottaw
00733>       [SDT=10.00:SDUR=  24.00:PTOT=  64.11]
00734> #*******************************************************************************
00735> # Van Gaal / Arbuckle Drain
00736> #*******************************************************************************
00737> # DSEL SUBCATCHMENT VG-1 HAS BEEN BROKEN INTO 6 SUB-AREAS (BW)
00738> #*******************************************************************************
00739>  005:0003---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00740>      CALIB NASHYD       01:VG-1A    311.90    1.597 No_date   18:15   23.51 .367
00741>       [CN= 73.0: N= 3.00]
00742>       [Tp= 5.30:DT= 5.00]
00743>  005:0004---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00744>      SAVE HYD           01:VG-1A    311.90    1.597 No_date   18:15   23.51  n/a
00745>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG-1A.005
00746>       remark:VG-1A
00747> #*******************************************************************************
00748> # Tp FOR VG-1B HAS BEEN REVISED TO REFLECT A HYDRAULIC LENGTH OF 1710 m, A
00749> # LENGTH THAT INCLUDES DISTANCE TO THE VG1-1 CONFLUENCE IN ADDITION TO THE
00750> # LONGEST FLOW PATH WITHIN VG-1B. THIS IS DONE TO SIMULATE CHANNEL ROUTING
00751> #*******************************************************************************
00752>  005:0005---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00753>      CALIB NASHYD       02:VG-1B     24.80     .214 No_date   15:00   23.45 .366
00754>       [CN= 73.0: N= 3.00]
00755>       [Tp= 2.70:DT= 5.00]
00756> #*******************************************************************************
00757> # VG1-1 IS THE SUM OF FLOWS TO THE CONFLUENCE OF NORTHERN MOST WATERCOURSE IN
00758> # OUR AREA OF STUDY WITH THE ROADSIDE DITCH ON GARVIN ROAD
00759> #*******************************************************************************
00760> #
00761>  005:0006---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00762>      ADD HYD            01:VG-1A    311.90    1.597 No_date   18:15   23.51  n/a
00763>                       +  02:VG-1B     24.80     .214 No_date   15:00   23.45  n/a
00764>       [DT= 5.00]  SUM=  03:VG1-1    336.70    1.734 No_date   17:50   23.51  n/a
00765>  005:0007---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00766>      SAVE HYD           03:VG1-1    336.70    1.734 No_date   17:50   23.51  n/a
00767>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG1-1.005
00768>       remark:VG1-1
00769>  005:0008---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00770>      CALIB NASHYD       04:VG-1D     47.80     .989 No_date   13:50   39.43 .615
00771>       [CN= 88.0: N= 3.00]
00772>       [Tp= 1.80:DT= 5.00]
00773> #*******************************************************************************
00774> # VG1-2 IS THE SUM OF FLOWS AT THE GARVIN ROAD CROSS CULVERT AND
00775> # CONSERVATIVELY INCLUDES THE AREA VG-1D,  WHICH IS LOCATED JUST DOWNSTREAM
00776> # OF THE CULVERT
00777> #*******************************************************************************
00778> #
00779>  005:0009---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00780>      ADD HYD            03:VG1-1    336.70    1.734 No_date   17:50   23.51  n/a
00781>                       +  04:VG-1D     47.80     .989 No_date   13:50   39.43  n/a
00782>       [DT= 5.00]  SUM=  05:VG1-2    384.50    2.148 No_date   15:40   25.49  n/a
00783>  005:0010---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00784>      SAVE HYD           05:VG1-2    384.50    2.148 No_date   15:40   25.49  n/a
00785>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG1-2.005
00786>       remark:VG1-2
00787>  005:0011---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00788>      ROUTE CHANNEL   -> 05:VG1-2    384.50    2.148 No_date   15:40   25.49  n/a
00789>       [RDT= 5.00] out<- 06:VG1R-2   384.50    2.116 No_date   16:45   25.49  n/a
00790>       [L/S/n=  865./ .150/.035]
00791>       {Vmax=  .394:Dmax=  .639}
00792>  005:0012---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00793>      CALIB NASHYD       07:VG-1C    211.80    1.082 No_date   17:30   21.44 .334
00794>       [CN= 70.0: N= 3.00]
00795>       [Tp= 4.70:DT= 5.00]
00796>  005:0013---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00797>      CALIB NASHYD       08:VG-1E     13.40     .344 No_date   12:35   23.45 .366
00798>       [CN= 73.0: N= 3.00]
00799>       [Tp=  .64:DT= 5.00]
00800> #*******************************************************************************
00801> # VG1-3 IS THE SUM OF FLOWS TO JOY'S ROAD CROSS CULVERT AND CONSERVATIVELY
00802> # INCLUDES THE AREA VG-1E, WHICH IS LOCATED JUST DOWNSTREAM OF THE CULVERT
00803> #*******************************************************************************
00804> #
00805>  005:0014---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00806>      ADD HYD            07:VG-1C    211.80    1.082 No_date   17:30   21.44  n/a
00807>                       +  08:VG-1E     13.40     .344 No_date   12:35   23.45  n/a
00808>       [DT= 5.00]  SUM=  09:VG1-3    225.20    1.110 No_date   17:25   21.56  n/a
00809>  005:0015---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00810>      SAVE HYD           09:VG1-3    225.20    1.110 No_date   17:25   21.56  n/a
00811>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG1-3.005
00812>       remark:VG1-3
00813>  005:0016---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00814>      ROUTE CHANNEL   -> 09:VG1-3    225.20    1.110 No_date   17:25   21.56  n/a
00815>       [RDT= 5.00] out<- 10:VG1R-3   225.20    1.103 No_date   17:50   21.56  n/a
00816>       [L/S/n=  630./ .200/.035]
00817>       {Vmax=  .324:Dmax=  .483}
00818> #*******************************************************************************
00819> # VG1-4 IS THE SUM OF FLOWS AT THE CONFLUENCE OF THE WATERCOURSE FROM JOY'S
00820> # ROAD WITH THE MAIN DRAIN
00821> #*******************************************************************************
00822> #
00823>  005:0017---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00824>      ADD HYD            06:VG1R-2   384.50    2.116 No_date   16:45   25.49  n/a
00825>                       +  10:VG1R-3   225.20    1.103 No_date   17:50   21.56  n/a
00826>       [DT= 5.00]  SUM=  01:VG1-4    609.70    3.198 No_date   17:15   24.04  n/a
00827>  005:0018---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00828>      SAVE HYD           01:VG1-4    609.70    3.198 No_date   17:15   24.04  n/a
00829>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG1-4.005
00830>       remark:VG1-4
00831>  005:0019---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00832>      ROUTE CHANNEL   -> 01:VG1-4    609.70    3.198 No_date   17:15   24.04  n/a
00833>       [RDT= 5.00] out<- 02:VG1R-4   609.70    3.179 No_date   17:55   24.04  n/a
00834>       [L/S/n=  485./ .200/.035]
00835>       {Vmax=  .363:Dmax= 1.058}
00836>  005:0020---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00837>      CALIB NASHYD       03:VG-1F    117.70    1.554 No_date   15:05   36.78 .574
00838>       [CN= 86.0: N= 3.00]
00839>       [Tp= 2.90:DT= 5.00]
00840> #*******************************************************************************
00841> # VG1 IS THE SUM OF FLOWS AT THE CONFLUENCE OF THE VAN GAAL WEST MAIN DRAIN
00842> # WITH VAN GAAL WEST TRIBUTARY
00843> #*******************************************************************************
00844> #
00845>  005:0021---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00846>      ADD HYD            02:VG1R-4   609.70    3.179 No_date   17:55   24.04  n/a
00847>                       +  03:VG-1F    117.70    1.554 No_date   15:05   36.78  n/a
00848>       [DT= 5.00]  SUM=  04:VG1      727.40    4.407 No_date   16:50   26.10  n/a
00849>  005:0022---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00850>      SAVE HYD           04:VG1      727.40    4.407 No_date   16:50   26.10  n/a
00851>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG1.005
00852>       remark:VG1
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00853>  005:0023--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00854>      ROUTE CHANNEL    -> 04:VG1      727.40    4.407 No_date   16:50   26.10  n/a
00855>       [RDT= 5.00] out<- 05:VGR2-1   727.40    4.402 No_date   16:50   26.10  n/a
00856>       [L/S/n=  755./ .200/.035]
00857>       {Vmax=  .963:Dmax= 1.027}
00858>  005:0024--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00859>      CALIB NASHYD       06:VG-2      63.10    1.104 No_date   13:40   31.09 .485
00860>       [CN= 81.0: N= 3.00]
00861>       [Tp= 1.60:DT= 5.00]
00862>  005:0025--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00863>      ROUTE CHANNEL    -> 06:VG-2      63.10    1.104 No_date   13:40   31.09  n/a
00864>       [RDT= 5.00] out<- 07:PerN      63.10     .982 No_date   14:25   31.09  n/a
00865>       [L/S/n=  550./ .200/.035]
00866>       {Vmax=  .232:Dmax=  .703}
00867>  005:0026--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00868>      CALIB NASHYD       08:VG-3      40.60     .919 No_date   13:35   39.43 .615
00869>       [CN= 88.0: N= 3.00]
00870>       [Tp= 1.60:DT= 5.00]
00871>  005:0027--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00872>      CALIB STANDHYD     09:VG-4      24.60    2.005 No_date   12:10   35.83 .559
00873>       [XIMP=.40:TIMP=.50]
00874>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00875>       [Pervious     area: IAper= 1.50:SLPP=1.50:LGP=  35.:MNP=.250:SCP=   .0]
00876>       [Impervious   area: IAimp=  .80:SLPI= .30:LGI=1000.:MNI=.013:SCI=   .0]
00877>  005:0028--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00878>      ADD HYD            05:VGR2-1   727.40    4.402 No_date   16:50   26.10  n/a
00879>                       +  07:PerN      63.10     .982 No_date   14:25   31.09  n/a
00880>                       +  08:VG-3      40.60     .919 No_date   13:35   39.43  n/a
00881>                       +  09:VG-4      24.60    2.005 No_date   12:10   35.83  n/a
00882>       [DT= 5.00]  SUM=  01:perths   855.70    5.568 No_date   15:30   27.38  n/a
00883>  005:0029--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00884>      SAVE HYD           01:perths   855.70    5.568 No_date   15:30   27.38  n/a
00885>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-perths.005
00886>       remark:perthst
00887>  005:0030--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00888>      CALIB NASHYD       02:VG-5      34.40     .382 No_date   14:30   26.42 .412
00889>       [CN= 76.0: N= 3.00]
00890>       [Tp= 2.30:DT= 5.00]
00891>  005:0031--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00892>      ROUTE CHANNEL    -> 02:VG-5      34.40     .382 No_date   14:30   26.42  n/a
00893>       [RDT= 5.00] out<- 03:PerS      34.40     .368 No_date   15:05   26.42  n/a
00894>       [L/S/n=  550./ .200/.035]
00895>       {Vmax=  .355:Dmax=  .567}
00896>  005:0032--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00897>      ADD HYD            01:perths   855.70    5.568 No_date   15:30   27.38  n/a
00898>                       +  03:PerS      34.40     .368 No_date   15:05   26.42  n/a
00899>       [DT= 5.00]  SUM=  02:arbuck   890.10    5.933 No_date   15:30   27.34  n/a
00900>  005:0033--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00901>      SAVE HYD           02:arbuck   890.10    5.933 No_date   15:30   27.34  n/a
00902>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-arbuck.005
00903>       remark:arbuck
00904>  005:0034--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00905>      ROUTE CHANNEL    -> 02:arbuck   890.10    5.933 No_date   15:30   27.34  n/a
00906>       [RDT= 5.00] out<- 09:VGR2-2   890.10    5.894 No_date   15:50   27.34  n/a
00907>       [L/S/n=  520./ .150/.035]
00908>       {Vmax=  .475:Dmax= 1.217}
00909>  005:0035--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00910>      CALIB NASHYD       01:VG-6      94.20     .837 No_date   15:35   27.33 .426
00911>       [CN= 77.0: N= 3.00]
00912>       [Tp= 3.20:DT= 5.00]
00913>  005:0036--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00914>      ROUTE CHANNEL    -> 01:VG-6      94.20     .837 No_date   15:35   27.33  n/a
00915>       [RDT= 5.00] out<- 02:VG-6      94.20     .696 No_date   17:45   27.33  n/a
00916>       [L/S/n=  600./ .180/.035]
00917>       {Vmax=  .089:Dmax=  .447}
00918>  005:0037--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00919>      SAVE HYD           02:VG-6      94.20     .696 No_date   17:45   27.33  n/a
00920>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG-6.005
00921>       remark:VG-6
00922>  005:0038--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00923>      CALIB NASHYD       03:VG-7      39.20     .410 No_date   15:10   29.60 .462
00924>       [CN= 80.0: N= 3.00]
00925>       [Tp= 2.90:DT= 5.00]
00926>  005:0039--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00927>      SAVE HYD           03:VG-7      39.20     .410 No_date   15:10   29.60  n/a
00928>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG-7.005
00929>       remark:VG-7
00930>  005:0040--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00931>      ROUTE CHANNEL    -> 03:VG-7      39.20     .410 No_date   15:10   29.60  n/a
00932>       [RDT= 5.00] out<- 04:VG-7      39.20     .361 No_date   17:15   29.60  n/a
00933>       [L/S/n= 1480./ .200/.035]
00934>       {Vmax=  .246:Dmax=  .563}
00935>  005:0041--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00936>      ADD HYD            02:VG-6      94.20     .696 No_date   17:45   27.33  n/a
00937>                       +  04:VG-7      39.20     .361 No_date   17:15   29.60  n/a
00938>       [DT= 5.00]  SUM=  05:Moore    133.40    1.055 No_date   17:40   28.00  n/a
00939>  005:0042--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00940>      SAVE HYD           05:Moore    133.40    1.055 No_date   17:40   28.00  n/a
00941>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-Moore.005
00942>       remark:Moore
00943>  005:0043--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00944>      CALIB NASHYD       05:VG-8      91.80    1.682 No_date   14:10   39.35 .614
00945>       [CN= 88.0: N= 3.00]
00946>       [Tp= 2.10:DT= 5.00]
00947>  005:0044--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00948>      CALIB STANDHYD     06:VG-9      11.40    1.119 No_date   12:05   35.83 .559
00949>       [XIMP=.40:TIMP=.50]
00950>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00951>       [Pervious     area: IAper= 1.50:SLPP=1.50:LGP=  50.:MNP=.250:SCP=   .0]
00952>       [Impervious   area: IAimp=  .80:SLPI= .30:LGI= 530.:MNI=.013:SCI=   .0]
00953>  005:0045--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00954>      ADD HYD            02:VG-6      94.20     .696 No_date   17:45   27.33  n/a
00955>                       +  04:VG-7      39.20     .361 No_date   17:15   29.60  n/a
00956>                       +  05:VG-8      91.80    1.682 No_date   14:10   39.35  n/a
00957>                       +  06:VG-9      11.40    1.119 No_date   12:05   35.83  n/a
00958>                       +  09:VGR2-2   890.10    5.894 No_date   15:50   27.34  n/a
00959>       [DT= 5.00]  SUM=  01:Fortun  1126.70    8.094 No_date   15:40   28.48  n/a
00960>  005:0046--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00961>      SAVE HYD           01:Fortun  1126.70    8.094 No_date   15:40   28.48  n/a
00962>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-Fortun.005
00963>       remark:Fortune
00964>  005:0047--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00965>      ROUTE CHANNEL    -> 01:Fortun  1126.70    8.094 No_date   15:40   28.48  n/a
00966>       [RDT= 5.00] out<- 03:VGR2-3  1126.70    8.067 No_date   15:50   28.48  n/a
00967>       [L/S/n=  750./ .200/.035]
00968>       {Vmax=  .659:Dmax=  .629}
00969>  005:0048--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00970>      CALIB STANDHYD     02:VG-10     20.30    1.824 No_date   12:05   35.83 .559
00971>       [XIMP=.40:TIMP=.50]
00972>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00973>       [Pervious     area: IAper= 1.50:SLPP=1.50:LGP=  50.:MNP=.250:SCP=   .0]
00974>       [Impervious   area: IAimp=  .80:SLPI= .30:LGI= 560.:MNI=.013:SCI=   .0]
00975>  005:0049--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00976>      ADD HYD            02:VG-10     20.30    1.824 No_date   12:05   35.83  n/a
00977>                       +  03:VGR2-3  1126.70    8.067 No_date   15:50   28.48  n/a
00978>       [DT= 5.00]  SUM=  09:JockVG  1147.00    8.110 No_date   15:50   28.61  n/a
00979>  005:0050--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00980>      SAVE HYD           09:JockVG  1147.00    8.110 No_date   15:50   28.61  n/a
00981>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-JockVG.005
00982>       remark:Flow from Van Gaal Drain at Jock River
00983>   ** END OF RUN :  99
00984>
00985>  ********************************************************************************
00986>
00987>
00988>
00989>
00990>
00991>  RUN:COMMAND#
00992>  100:0001--------------------------------------------------------------------------
00993>      START
00994>       [TZERO =    .00 hrs on        0]
```

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00995>       [METOUT=   2    (1=imperial, 2=metric output)]
00996>       [NSTORM=   1 ]
00997>       [NRUN  = 100 ]
00998> #*******************************************************************************
00999> #  SWMHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
01000> #*******************************************************************************
01001> #  Project Name: [Richmond FPM]    Project Number: [709]
01002> #  Date        : 04-21-2009
01003> #  Revised     : 05-27-2009; 07-22-2009; 08-06-2009; 08-31-2009; 11-16-2009
01004> #  Modeller    : [Bryan Willcott B.Eng.]
01005> #  Company     : J.F. Sabourin and Associates
01006> #  License #   : 3410370
01007> #*******************************************************************************
01008> #*******************************************************************************
01009> #  [BW] May 27, 2009
01010> #  This model has been updated using revised values for Tp. Previous versions
01011> #  of this model used a calculated Tp=0.6Tc.  This model used a calculated
01012> #  Tp=0.67Tc.
01013> #*******************************************************************************
01014> #  [BW] July 22, 2009
01015> #  This model has been revised to include "existing" cross section information
01016> #  received from Robinson Consultants.  The Cross section revised in the model
01017> #  is Sec 5.2 (channel receiving flow from "arbuck"). Also, channel and
01018> #  floodplain slopes for ROUTE CHANNEL commands were updated to be equal
01019> #*******************************************************************************
01020> #  [BW] August 6, 2009
01021> #  This model has been revised to include cross section information
01022> #  from Robinson Consultants Engineer's Report July 2003.  The cross
01023> #  section revised in the model is Sec 5.1.  Cross sections Sec 1.03
01024> #  and Sec 5.3 have also been revised
01025> #*******************************************************************************
01026> #  [BW] August 31, 2009
01027> #  Model updated to include the proposed DSEL berm. This affects the geometry
01028> #  of Route Channel Sect 5.2 located on the Arbuckle drain.  Route Channels 5.2
01029> #  and 1.03 have also been revised to reduce the number of values in the
01030> #  x-y matrix.
01031> #*******************************************************************************
01032> #  [BW] November 16, 2009
01033> #  Model updated to include revised CN and Tp values subsequent to review of
01034> #  memo received from AECOM on Oct. 2, 2009
01035> #*******************************************************************************
01036> #
01037>  100:0002-------------------------------------------------------------------------
01038>       READ STORM
01039>        Filename = STORM.001
01040>        Comment  = 100 years SCS Type 2 Storm 24 Hours step 10 min, City of Ott
01041>        [SDT=10.00:SDUR=  24.00:PTOT= 106.73]
01042> #*******************************************************************************
01043> # Van Gaal / Arbuckle Drain
01044> #*******************************************************************************
01045> # DSEL SUBCATCHMENT VG-1 HAS BEEN BROKEN INTO 6 SUB-AREAS (BW)
01046> #*******************************************************************************
01047>  100:0003---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01048>       CALIB NASHYD       01:VG-1A    311.90    3.701 No_date   18:00   53.74 .503
01049>        [CN= 73.0: N= 3.00]
01050>        [Tp= 5.30:DT= 5.00]
01051>  100:0004---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01052>       SAVE HYD           01:VG-1A    311.90    3.701 No_date   18:00   53.74  n/a
01053>        fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG-1A.100
01054>        remark:VG-1A
01055> #*******************************************************************************
01056> # Tp FOR VG-1B HAS BEEN REVISED TO REFLECT A HYDRAULIC LENGTH OF 1710 m, A
01057> # LENGTH THAT INCLUDES DISTANCE TO THE VG1-1 CONFLUENCE IN ADDITION TO THE
01058> # LONGEST FLOW PATH WITHIN VG-1B. THIS IS DONE TO SIMULATE CHANNEL ROUTING
01059> #*******************************************************************************
01060>  100:0005---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01061>       CALIB NASHYD       02:VG-1B     24.80     .500 No_date   14:55   53.66 .503
01062>        [CN= 73.0: N= 3.00]
01063>        [Tp= 2.70:DT= 5.00]
01064> #*******************************************************************************
01065> # VG1-1 IS THE SUM OF FLOWS TO THE CONFLUENCE OF NORTHERN MOST WATERCOURSE IN
01066> # OUR AREA OF STUDY WITH THE ROADSIDE DITCH ON GARVIN ROAD
01067> #*******************************************************************************
01068> #
01069>  100:0006---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01070>       ADD HYD            01:VG-1A    311.90    3.701 No_date   18:00   53.74  n/a
01071>                        +  02:VG-1B     24.80     .500 No_date   14:55   53.66  n/a
01072>        [DT= 5.00]  SUM=  03:VG1-1    336.70    4.021 No_date   17:35   53.73  n/a
01073>  100:0007---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01074>       SAVE HYD           03:VG1-1    336.70    4.021 No_date   17:35   53.73  n/a
01075>        fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG1-1.100
01076>        remark:VG1-1
01077>  100:0008---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01078>       CALIB NASHYD       04:VG-1D     47.80    1.970 No_date   13:45   78.23 .733
01079>        [CN= 88.0: N= 3.00]
01080>        [Tp= 1.80:DT= 5.00]
01081> #*******************************************************************************
01082> # VG1-2 IS THE SUM OF FLOWS AT THE GARVIN ROAD CROSS CULVERT AND
01083> # CONSERVATIVELY INCLUDES THE AREA VG-1D,  WHICH IS LOCATED JUST DOWNSTREAM
01084> # OF THE CULVERT
01085> #*******************************************************************************
01086> #
01087>  100:0009---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01088>       ADD HYD            03:VG1-1    336.70    4.021 No_date   17:35   53.73  n/a
01089>                        +  04:VG-1D     47.80    1.970 No_date   13:45   78.23  n/a
01090>        [DT= 5.00]  SUM=  05:VG1-2    384.50    4.813 No_date   15:55   56.78  n/a
01091>  100:0010---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01092>       SAVE HYD           05:VG1-2    384.50    4.813 No_date   15:55   56.78  n/a
01093>        fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG1-2.100
01094>        remark:VG1-2
01095>  100:0011---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01096>       ROUTE CHANNEL   -> 05:VG1-2    384.50    4.813 No_date   15:55   56.78  n/a
01097>        [RDT= 5.00] out<- 06:VG1R-2   384.50    4.667 No_date   17:25   56.78  n/a
01098>        [L/S/n=  865./ .150/.035]
01099>        {Vmax=  .269:Dmax=  .827}
01100>  100:0012---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01101>       CALIB NASHYD       07:VG-1C    211.80    2.559 No_date   17:20   49.95 .468
01102>        [CN= 70.0: N= 3.00]
01103>        [Tp= 4.70:DT= 5.00]
01104>  100:0013---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01105>       CALIB NASHYD       08:VG-1E     13.40     .804 No_date   12:35   53.66 .503
01106>        [CN= 73.0: N= 3.00]
01107>        [Tp=  .64:DT= 5.00]
01108> #*******************************************************************************
01109> # VG1-3 IS THE SUM OF FLOWS TO JOY'S ROAD CROSS CULVERT AND CONSERVATIVELY
01110> # INCLUDES THE AREA VG-1E, WHICH IS LOCATED JUST DOWNSTREAM OF THE CULVERT
01111> #*******************************************************************************
01112> #
01113>  100:0014---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01114>       ADD HYD            07:VG-1C    211.80    2.559 No_date   17:20   49.95  n/a
01115>                        +  08:VG-1E     13.40     .804 No_date   12:35   53.66  n/a
01116>        [DT= 5.00]  SUM=  09:VG1-3    225.20    2.619 No_date   17:15   50.17  n/a
01117>  100:0015---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01118>       SAVE HYD           09:VG1-3    225.20    2.619 No_date   17:15   50.17  n/a
01119>        fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG1-3.100
01120>        remark:VG1-3
01121>  100:0016---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01122>       ROUTE CHANNEL   -> 09:VG1-3    225.20    2.619 No_date   17:15   50.17  n/a
01123>        [RDT= 5.00] out<- 10:VG1R-3   225.20    2.607 No_date   17:35   50.17  n/a
01124>        [L/S/n=  630./ .200/.035]
01125>        {Vmax=  .428:Dmax=  .767}
01126> #*******************************************************************************
01127> # VG1-4 IS THE SUM OF FLOWS AT THE CONFLUENCE OF THE WATERCOURSE FROM JOY'S
01128> # ROAD WITH THE MAIN DRAIN
01129> #*******************************************************************************
01130> #
01131>  100:0017---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01132>       ADD HYD            06:VG1R-2   384.50    4.667 No_date   17:25   56.78  n/a
01133>                        +  10:VG1R-3   225.20    2.607 No_date   17:35   50.17  n/a
01134>        [DT= 5.00]  SUM=  01:VG1-4    609.70    7.272 No_date   17:30   54.34  n/a
01135>  100:0018---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01136>       SAVE HYD           01:VG1-4    609.70    7.272 No_date   17:30   54.34  n/a
```

```
01137>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG1-4.100
01138>       remark:VG1-4
01139>  100:0019---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01140>      ROUTE CHANNEL   -> 01:VG1-4    609.70    7.272 No_date   17:30   54.34  n/a
01141>       [RDT= 5.00] out<- 02:VG1R-4   609.70    7.210 No_date   18:05   54.34  n/a
01142>       [L/S/n=  485./ .200/.035]
01143>       {Vmax=  .260:Dmax= 1.201}
01144>  100:0020---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01145>      CALIB NASHYD       03:VG-1F    117.70    3.178 No_date   15:00   74.54 .698
01146>       [CN= 86.0: N= 3.00]
01147>       [Tp= 2.90:DT= 5.00]
01148> #*******************************************************************************
01149> # VG1 IS THE SUM OF FLOWS AT THE CONFLUENCE OF THE VAN GAAL WEST MAIN DRAIN
01150> # WITH VAN GAAL WEST TRIBUTARY
01151> #*******************************************************************************
01152> #
01153>  100:0021---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01154>      ADD HYD            02:VG1R-4   609.70    7.210 No_date   18:05   54.34  n/a
01155>                       +  03:VG-1F    117.70    3.178 No_date   15:00   74.54  n/a
01156>       [DT= 5.00]  SUM=  04:VG1      727.40    9.543 No_date   16:55   57.61  n/a
01157>  100:0022---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01158>      SAVE HYD           04:VG1      727.40    9.543 No_date   16:55   57.61  n/a
01159>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG1.100
01160>       remark:VG1
01161>  100:0023---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01162>      ROUTE CHANNEL   -> 04:VG1      727.40    9.543 No_date   16:55   57.61  n/a
01163>       [RDT= 5.00] out<- 05:VGR2-1   727.40    9.529 No_date   17:05   57.61  n/a
01164>       [L/S/n=  755./ .200/.035]
01165>       {Vmax= 1.110:Dmax= 1.457}
01166>  100:0024---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01167>      CALIB NASHYD       06:VG-2      63.10    2.381 No_date   13:35   66.06 .619
01168>       [CN= 81.0: N= 3.00]
01169>       [Tp= 1.60:DT= 5.00]
01170>  100:0025---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01171>      ROUTE CHANNEL   -> 06:VG-2      63.10    2.381 No_date   13:35   66.06  n/a
01172>       [RDT= 5.00] out<- 07:PerN      63.10    2.120 No_date   14:20   66.06  n/a
01173>       [L/S/n=  550./ .200/.035]
01174>       {Vmax=  .233:Dmax=  .811}
01175>  100:0026---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01176>      CALIB NASHYD       08:VG-3      40.60    1.832 No_date   13:35   78.23 .733
01177>       [CN= 88.0: N= 3.00]
01178>       [Tp= 1.60:DT= 5.00]
01179>  100:0027---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01180>      CALIB STANDHYD     09:VG-4      24.60    4.230 No_date   12:10   64.71 .606
01181>       [XIMP=.40:TIMP=.50]
01182>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01183>       [Pervious     area: IAper= 1.50:SLPP=1.50:LGP=  35.:MNP=.250:SCP=   .0]
01184>       [Impervious   area: IAimp=  .80:SLPI= .30:LGI=1000.:MNI=.013:SCI=   .0]
01185>  100:0028---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01186>      ADD HYD            05:VGR2-1   727.40    9.529 No_date   17:05   57.61  n/a
01187>                       +  07:PerN      63.10    2.120 No_date   14:20   66.06  n/a
01188>                       +  08:VG-3      40.60    1.832 No_date   13:35   78.23  n/a
01189>                       +  09:VG-4      24.60    4.230 No_date   12:10   64.71  n/a
01190>       [DT= 5.00]  SUM=  01:perths   855.70   11.434 No_date   16:00   59.41  n/a
01191>  100:0029---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01192>      SAVE HYD           01:perths   855.70   11.434 No_date   16:00   59.41  n/a
01193>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-perths.100
01194>       remark:perthst
01195>  100:0030---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01196>      CALIB NASHYD       02:VG-5      34.40     .861 No_date   14:25   58.50 .548
01197>       [CN= 76.0: N= 3.00]
01198>       [Tp= 2.30:DT= 5.00]
01199>  100:0031---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01200>      ROUTE CHANNEL   -> 02:VG-5      34.40     .861 No_date   14:25   58.50  n/a
01201>       [RDT= 5.00] out<- 03:PerS      34.40     .804 No_date   15:15   58.50  n/a
01202>       [L/S/n=  550./ .200/.035]
01203>       {Vmax=  .242:Dmax=  .669}
01204>  100:0032---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01205>      ADD HYD            01:perths   855.70   11.434 No_date   16:00   59.41  n/a
01206>                       +  03:PerS      34.40     .804 No_date   15:15   58.50  n/a
01207>       [DT= 5.00]  SUM=  02:arbuck   890.10   12.200 No_date   15:55   59.38  n/a
01208>  100:0033---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01209>      SAVE HYD           02:arbuck   890.10   12.200 No_date   15:55   59.38  n/a
01210>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-arbuck.100
01211>       remark:arbuck
01212>  100:0034---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01213>      ROUTE CHANNEL   -> 02:arbuck   890.10   12.200 No_date   15:55   59.38  n/a
01214>       [RDT= 5.00] out<- 09:VGR2-2   890.10   12.094 No_date   16:25   59.38  n/a
01215>       [L/S/n=  520./ .150/.035]
01216>       {Vmax=  .382:Dmax= 1.469}
01217>  100:0035---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01218>      CALIB NASHYD       01:VG-6      94.20    1.866 No_date   15:30   59.99 .562
01219>       [CN= 77.0: N= 3.00]
01220>       [Tp= 3.20:DT= 5.00]
01221>  100:0036---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01222>      ROUTE CHANNEL   -> 01:VG-6      94.20    1.866 No_date   15:30   59.99  n/a
01223>       [RDT= 5.00] out<- 02:VG-6      94.20    1.483 No_date   17:40   59.99  n/a
01224>       [L/S/n=  600./ .180/.035]
01225>       {Vmax=  .078:Dmax=  .476}
01226>  100:0037---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01227>      SAVE HYD           02:VG-6      94.20    1.483 No_date   17:40   59.99  n/a
01228>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG-6.100
01229>       remark:VG-6
01230>  100:0038---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01231>      CALIB NASHYD       03:VG-7      39.20     .900 No_date   15:05   63.92 .599
01232>       [CN= 80.0: N= 3.00]
01233>       [Tp= 2.90:DT= 5.00]
01234>  100:0039---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01235>      SAVE HYD           03:VG-7      39.20     .900 No_date   15:05   63.92  n/a
01236>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG-7.100
01237>       remark:VG-7
01238>  100:0040---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01239>      ROUTE CHANNEL   -> 03:VG-7      39.20     .900 No_date   15:05   63.92  n/a
01240>       [RDT= 5.00] out<- 04:VG-7      39.20     .690 No_date   17:50   63.92  n/a
01241>       [L/S/n= 1480./ .200/.035]
01242>       {Vmax=  .173:Dmax=  .632}
01243>  100:0041---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01244>      ADD HYD            02:VG-6      94.20    1.483 No_date   17:40   59.99  n/a
01245>                       +  04:VG-7      39.20     .690 No_date   17:50   63.92  n/a
01246>       [DT= 5.00]  SUM=  05:Moore    133.40    2.172 No_date   17:45   61.15  n/a
01247>  100:0042---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01248>      SAVE HYD           05:Moore    133.40    2.172 No_date   17:45   61.15  n/a
01249>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-Moore.100
01250>       remark:Moore
01251>  100:0043---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01252>      CALIB NASHYD       05:VG-8      91.80    3.356 No_date   14:05   78.14 .732
01253>       [CN= 88.0: N= 3.00]
01254>       [Tp= 2.10:DT= 5.00]
01255>  100:0044---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01256>      CALIB STANDHYD     06:VG-9      11.40    2.347 No_date   12:05   64.71 .606
01257>       [XIMP=.40:TIMP=.50]
01258>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01259>       [Pervious     area: IAper= 1.50:SLPP=1.50:LGP=  50.:MNP=.250:SCP=   .0]
01260>       [Impervious   area: IAimp=  .80:SLPI= .30:LGI= 530.:MNI=.013:SCI=   .0]
01261>  100:0045---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01262>      ADD HYD            02:VG-6      94.20    1.483 No_date   17:40   59.99  n/a
01263>                       +  04:VG-7      39.20     .690 No_date   17:50   63.92  n/a
01264>                       +  05:VG-8      91.80    3.356 No_date   14:05   78.14  n/a
01265>                       +  06:VG-9      11.40    2.347 No_date   12:05   64.71  n/a
01266>                       +  09:VGR2-2   890.10   12.094 No_date   16:25   59.38  n/a
01267>       [DT= 5.00]  SUM=  01:Fortun  1126.70   16.377 No_date   15:55   61.17  n/a
01268>  100:0046---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01269>      SAVE HYD           01:Fortun  1126.70   16.377 No_date   15:55   61.17  n/a
01270>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-Fortun.100
01271>       remark:Fortune
01272>  100:0047---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01273>      ROUTE CHANNEL   -> 01:Fortun  1126.70   16.377 No_date   15:55   61.17  n/a
01274>       [RDT= 5.00] out<- 03:VGR2-3  1126.70   16.347 No_date   16:00   61.17  n/a
01275>       [L/S/n=  750./ .200/.035]
01276>       {Vmax=  .795:Dmax=  .852}
01277>  100:0048---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01278>      CALIB STANDHYD     02:VG-10     20.30    4.148 No_date   12:05   64.71 .606
```

```
      [XIMP=.40:TIMP=.50]
      [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
      [Pervious     area: IAper= 1.50:SLPP=1.50:LGP=  50.:MNP=.250:SCP=   .0]
      [Impervious   area: IAimp=  .80:SLPI= .30:LGI= 560.:MNI=.013:SCI=   .0]
 100:0049--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     ADD HYD            02:VG-10     20.30    4.148 No_date   12:05   64.71  n/a
                     +  03:VGR2-3  1126.70   16.347 No_date   16:00   61.17  n/a
      [DT= 5.00]  SUM=  09:JockVG  1147.00   16.419 No_date   16:00   61.23  n/a
 100:0050--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     SAVE HYD           09:JockVG  1147.00   16.419 No_date   16:00   61.23  n/a
      fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-JockVG.100
      remark:Flow from Van Gaal Drain at Jock River
  ** END OF RUN : 101

*******************************************************************************




 RUN:COMMAND#
 102:0001--------------------------------------------------------------------------
     START
      [TZERO =    .00 hrs on        0]
      [METOUT=   2    (1=imperial, 2=metric output)]
      [NSTORM=   1 ]
      [NRUN  = 102 ]
#*******************************************************************************
#  SWMHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
#*******************************************************************************
#  Project Name: [Richmond FPM]    Project Number: [709]
#  Date        : 04-21-2009
#  Revised     : 05-27-2009; 07-22-2009; 08-06-2009; 08-31-2009; 11-16-2009
#  Modeller    : [Bryan Willcott B.Eng.]
#  Company     : J.F. Sabourin and Associates
#  License #   : 3410370
#*******************************************************************************
#*******************************************************************************
#  [BW] May 27, 2009
#  This model has been updated using revised values for Tp. Previous versions
#  of this model used a calculated Tp=0.6Tc.  This model used a calculated
#  Tp=0.67Tc.
#*******************************************************************************
#  [BW] July 22, 2009
#  This model has been revised to include "existing" cross section information
#  received from Robinson Consultants.  The Cross section revised in the model
#  is Sec 5.2 (channel receiving flow from "arbuck"). Also, channel and
#  floodplain slopes for ROUTE CHANNEL commands were updated to be equal
#*******************************************************************************
#  [BW] August 6, 2009
#  This model has been revised to include cross section information
#  from Robinson Consultants Engineer's Report July 2003.  The cross
#  section revised in the model is Sec 5.1.  Cross sections Sec 1.03
#  and Sec 5.3 have also been revised
#*******************************************************************************
#  [BW] August 31, 2009
#  Model updated to include the proposed DSEL berm. This affects the geometry
#  of Route Channel Sect 5.2 located on the Arbuckle drain.  Route Channels 5.2
#  and 1.03 have also been revised to reduce the number of values in the
#  x-y matrix.
#*******************************************************************************
#  [BW] November 16, 2009
#  Model updated to include revised CN and Tp values subsequent to review of
#  memo received from AECOM on Oct. 2, 2009
#*******************************************************************************
#
 102:0002--------------------------------------------------------------------------
     READ STORM
      Filename = STORM.001
      Comment  = 2 years Chicago Storm 4 Hours step 10 min, City of Ottawa
      [SDT=10.00:SDUR=   4.00:PTOT=  33.89]

#*******************************************************************************
# Van Gaal / Arbuckle Drain
#*******************************************************************************
# DSEL SUBCATCHMENT VG-1 HAS BEEN BROKEN INTO 6 SUB-AREAS (BW)
#*******************************************************************************
 102:0003--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     CALIB NASHYD       01:VG-1A    311.90     .631 No_date    7:15    7.26 .214
      [CN= 73.0: N= 3.00]
      [Tp= 5.30:DT= 5.00]
 102:0004--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     SAVE HYD           01:VG-1A    311.90     .631 No_date    7:15    7.26  n/a
      fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG-1A.102
      remark:VG-1A
#*******************************************************************************
# Tp FOR VG-1B HAS BEEN REVISED TO REFLECT A HYDRAULIC LENGTH OF 1710 m, A
# LENGTH THAT INCLUDES DISTANCE TO THE VG1-1 CONFLUENCE IN ADDITION TO THE
# LONGEST FLOW PATH WITHIN VG-1B. THIS IS DONE TO SIMULATE CHANNEL ROUTING
#*******************************************************************************
 102:0005--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     CALIB NASHYD       02:VG-1B     24.80     .091 No_date    4:45    7.21 .213
      [CN= 73.0: N= 3.00]
      [Tp= 2.70:DT= 5.00]
#*******************************************************************************
# VG1-1 IS THE SUM OF FLOWS TO THE CONFLUENCE OF NORTHERN MOST WATERCOURSE IN
# OUR AREA OF STUDY WITH THE ROADSIDE DITCH ON GARVIN ROAD
#*******************************************************************************
#
 102:0006--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     ADD HYD            01:VG-1A    311.90     .631 No_date    7:15    7.26  n/a
                     +  02:VG-1B     24.80     .091 No_date    4:45    7.21  n/a
      [DT= 5.00]  SUM=  03:VG1-1    336.70     .689 No_date    6:50    7.25  n/a
 102:0007--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     SAVE HYD           03:VG1-1    336.70     .689 No_date    6:50    7.25  n/a
      fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG1-1.102
      remark:VG1-1
 102:0008--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     CALIB NASHYD       04:VG-1D     47.80     .502 No_date    3:35   14.92 .440
      [CN= 88.0: N= 3.00]
      [Tp= 1.80:DT= 5.00]
#*******************************************************************************
# VG1-2 IS THE SUM OF FLOWS AT THE GARVIN ROAD CROSS CULVERT AND
# CONSERVATIVELY INCLUDES THE AREA VG-1D,  WHICH IS LOCATED JUST DOWNSTREAM
# OF THE CULVERT
#*******************************************************************************
#
 102:0009--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     ADD HYD            03:VG1-1    336.70     .689 No_date    6:50    7.25  n/a
                     +  04:VG-1D     47.80     .502 No_date    3:35   14.92  n/a
      [DT= 5.00]  SUM=  05:VG1-2    384.50     .966 No_date    4:45    8.21  n/a
 102:0010--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     SAVE HYD           05:VG1-2    384.50     .966 No_date    4:45    8.21  n/a
      fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG1-2.102
      remark:VG1-2
 102:0011--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     ROUTE CHANNEL   -> 05:VG1-2    384.50     .966 No_date    4:45    8.21  n/a
      [RDT= 5.00] out<- 06:VG1R-2   384.50     .948 No_date    5:20    8.21  n/a
      [L/S/n=  865./ .150/.035]
      {Vmax=  .473:Dmax=  .452}
 102:0012--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     CALIB NASHYD       07:VG-1C    211.80     .428 No_date    6:40    6.48 .191
      [CN= 70.0: N= 3.00]
      [Tp= 4.70:DT= 5.00]
 102:0013--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     CALIB NASHYD       08:VG-1E     13.40     .138 No_date    2:10    7.21 .213
      [CN= 73.0: N= 3.00]
      [Tp=  .64:DT= 5.00]
#*******************************************************************************
# VG1-3 IS THE SUM OF FLOWS TO JOY'S ROAD CROSS CULVERT AND CONSERVATIVELY
# INCLUDES THE AREA VG-1E, WHICH IS LOCATED JUST DOWNSTREAM OF THE CULVERT
#*******************************************************************************
#
```

```
01421>  102:0014--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01422>      ADD HYD           07:VG-1C    211.80     .428 No_date    6:40    6.48  n/a
01423>                      +  08:VG-1E     13.40     .138 No_date    2:10    7.21  n/a
01424>       [DT= 5.00]  SUM=  09:VG1-3    225.20     .428 No_date    6:40    6.52  n/a
01425>  102:0015--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01426>      SAVE HYD          09:VG1-3    225.20     .428 No_date    6:40    6.52  n/a
01427>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG1-3.102
01428>       remark:VG1-3
01429>  102:0016--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01430>      ROUTE CHANNEL   -> 09:VG1-3    225.20     .428 No_date    6:40    6.52  n/a
01431>       [RDT= 5.00] out<- 10:VG1R-3   225.20     .422 No_date    7:05    6.52  n/a
01432>       [L/S/n=  630./ .200/.035]
01433>       {Vmax=  .232:Dmax=  .285}
01434> #*******************************************************************************
01435> # VG1-4 IS THE SUM OF FLOWS AT THE CONFLUENCE OF THE WATERCOURSE FROM JOY'S
01436> # ROAD WITH THE MAIN DRAIN
01437> #*******************************************************************************
01438> #
01439>  102:0017--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01440>      ADD HYD           06:VG1R-2   384.50     .948 No_date    5:20    8.21  n/a
01441>                      +  10:VG1R-3   225.20     .422 No_date    7:05    6.52  n/a
01442>       [DT= 5.00]  SUM=  01:VG1-4    609.70    1.325 No_date    5:50    7.58  n/a
01443>  102:0018--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01444>      SAVE HYD          01:VG1-4    609.70    1.325 No_date    5:50    7.58  n/a
01445>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG1-4.102
01446>       remark:VG1-4
01447>  102:0019--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01448>      ROUTE CHANNEL   -> 01:VG1-4    609.70    1.325 No_date    5:50    7.58  n/a
01449>       [RDT= 5.00] out<- 02:VG1R-4   609.70    1.322 No_date    6:00    7.58  n/a
01450>       [L/S/n=  485./ .200/.035]
01451>       {Vmax=  .637:Dmax=  .830}
01452>  102:0020--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01453>      CALIB NASHYD      03:VG-1F    117.70     .766 No_date    4:50   13.48 .398
01454>       [CN= 86.0: N= 3.00]
01455>       [Tp= 2.90:DT= 5.00]
01456> #*******************************************************************************
01457> # VG1 IS THE SUM OF FLOWS AT THE CONFLUENCE OF THE VAN GAAL WEST MAIN DRAIN
01458> # WITH VAN GAAL WEST TRIBUTARY
01459> #*******************************************************************************
01460> #
01461>  102:0021--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01462>      ADD HYD           02:VG1R-4   609.70    1.322 No_date    6:00    7.58  n/a
01463>                      +  03:VG-1F    117.70     .766 No_date    4:50   13.48  n/a
01464>       [DT= 5.00]  SUM=  04:VG1      727.40    2.037 No_date    5:25    8.54  n/a
01465>  102:0022--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01466>      SAVE HYD          04:VG1      727.40    2.037 No_date    5:25    8.54  n/a
01467>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG1.102
01468>       remark:VG1
01469>  102:0023--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01470>      ROUTE CHANNEL   -> 04:VG1      727.40    2.037 No_date    5:25    8.54  n/a
01471>       [RDT= 5.00] out<- 05:VGR2-1   727.40    2.030 No_date    5:35    8.54  n/a
01472>       [L/S/n=  755./ .200/.035]
01473>       {Vmax=  .779:Dmax=  .691}
01474>  102:0024--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01475>      CALIB NASHYD      06:VG-2      63.10     .512 No_date    3:20   10.66 .315
01476>       [CN= 81.0: N= 3.00]
01477>       [Tp= 1.60:DT= 5.00]
01478>  102:0025--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01479>      ROUTE CHANNEL   -> 06:VG-2      63.10     .512 No_date    3:20   10.66  n/a
01480>       [RDT= 5.00] out<- 07:PerN      63.10     .474 No_date    4:15   10.66  n/a
01481>       [L/S/n=  550./ .200/.035]
01482>       {Vmax=  .289:Dmax=  .606}
01483>  102:0026--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01484>      CALIB NASHYD      08:VG-3      40.60     .466 No_date    3:20   14.92 .440
01485>       [CN= 88.0: N= 3.00]
01486>       [Tp= 1.60:DT= 5.00]
01487>  102:0027--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01488>      CALIB STANDHYD    09:VG-4      24.60    1.122 No_date    1:35   17.49 .516
01489>       [XIMP=.40:TIMP=.50]
01490>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01491>       [Pervious     area: IAper= 1.50:SLPP=1.50:LGP=  35.:MNP=.250:SCP=   .0]
01492>       [Impervious   area: IAimp=  .80:SLPI= .30:LGI=1000.:MNI=.013:SCI=   .0]
01493>  102:0028--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01494>      ADD HYD           05:VGR2-1   727.40    2.030 No_date    5:35    8.54  n/a
01495>                      +  07:PerN      63.10     .474 No_date    4:15   10.66  n/a
01496>                      +  08:VG-3      40.60     .466 No_date    3:20   14.92  n/a
01497>                      +  09:VG-4      24.60    1.122 No_date    1:35   17.49  n/a
01498>       [DT= 5.00]  SUM=  01:perths   855.70    2.723 No_date    4:50    9.26  n/a
01499>  102:0029--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01500>      SAVE HYD          01:perths   855.70    2.723 No_date    4:50    9.26  n/a
01501>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-perths.102
01502>       remark:perthst
01503>  102:0030--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01504>      CALIB NASHYD      02:VG-5      34.40     .172 No_date    4:15    8.59 .253
01505>       [CN= 76.0: N= 3.00]
01506>       [Tp= 2.30:DT= 5.00]
01507>  102:0031--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01508>      ROUTE CHANNEL   -> 02:VG-5      34.40     .172 No_date    4:15    8.59  n/a
01509>       [RDT= 5.00] out<- 03:PerS      34.40     .169 No_date    4:35    8.59  n/a
01510>       [L/S/n=  550./ .200/.035]
01511>       {Vmax=  .434:Dmax=  .443}
01512>  102:0032--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01513>      ADD HYD           01:perths   855.70    2.723 No_date    4:50    9.26  n/a
01514>                      +  03:PerS      34.40     .169 No_date    4:35    8.59  n/a
01515>       [DT= 5.00]  SUM=  02:arbuck   890.10    2.890 No_date    4:45    9.23  n/a
01516>  102:0033--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01517>      SAVE HYD          02:arbuck   890.10    2.890 No_date    4:45    9.23  n/a
01518>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-arbuck.102
01519>       remark:arbuck
01520>  102:0034--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01521>      ROUTE CHANNEL   -> 02:arbuck   890.10    2.890 No_date    4:45    9.23  n/a
01522>       [RDT= 5.00] out<- 09:VGR2-2   890.10    2.863 No_date    5:10    9.23  n/a
01523>       [L/S/n=  520./ .150/.035]
01524>       {Vmax=  .684:Dmax=  .977}
01525>  102:0035--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01526>      CALIB NASHYD      01:VG-6      94.20     .375 No_date    5:10    8.99 .265
01527>       [CN= 77.0: N= 3.00]
01528>       [Tp= 3.20:DT= 5.00]
01529>  102:0036--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01530>      ROUTE CHANNEL   -> 01:VG-6      94.20     .375 No_date    5:10    8.99  n/a
01531>       [RDT= 5.00] out<- 02:VG-6      94.20     .356 No_date    7:10    8.99  n/a
01532>       [L/S/n=  600./ .180/.035]
01533>       {Vmax=  .166:Dmax=  .416}
01534>  102:0037--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01535>      SAVE HYD          02:VG-6      94.20     .356 No_date    7:10    8.99  n/a
01536>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG-6.102
01537>       remark:VG-6
01538>  102:0038--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01539>      CALIB NASHYD      03:VG-7      39.20     .186 No_date    4:50    9.84 .290
01540>       [CN= 80.0: N= 3.00]
01541>       [Tp= 2.90:DT= 5.00]
01542>  102:0039--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01543>      SAVE HYD          03:VG-7      39.20     .186 No_date    4:50    9.84  n/a
01544>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG-7.102
01545>       remark:VG-7
01546>  102:0040--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01547>      ROUTE CHANNEL   -> 03:VG-7      39.20     .186 No_date    4:50    9.84  n/a
01548>       [RDT= 5.00] out<- 04:VG-7      39.20     .172 No_date    5:40    9.84  n/a
01549>       [L/S/n= 1480./ .200/.035]
01550>       {Vmax=  .443:Dmax=  .457}
01551>  102:0041--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01552>      ADD HYD           02:VG-6      94.20     .356 No_date    7:10    8.99  n/a
01553>                      +  04:VG-7      39.20     .172 No_date    5:40    9.84  n/a
01554>       [DT= 5.00]  SUM=  05:Moore    133.40     .510 No_date    6:35    9.24  n/a
01555>  102:0042--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01556>      SAVE HYD          05:Moore    133.40     .510 No_date    6:35    9.24  n/a
01557>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-Moore.102
01558>       remark:Moore
01559>  102:0043--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01560>      CALIB NASHYD      05:VG-8      91.80     .853 No_date    4:00   14.85 .438
01561>       [CN= 88.0: N= 3.00]
01562>       [Tp= 2.10:DT= 5.00]
```

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01563>  102:0044--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01564>      CALIB STANDHYD     06:VG-9      11.40     .667 No_date    1:25   17.49 .516
01565>       [XIMP=.40:TIMP=.50]
01566>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01567>       [Pervious     area: IAper= 1.50:SLPP=1.50:LGP=  50.:MNP=.250:SCP=   .0]
01568>       [Impervious   area: IAimp=  .80:SLPI= .30:LGI= 530.:MNI=.013:SCI=   .0]
01569>  102:0045--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01570>      ADD HYD            02:VG-6      94.20     .356 No_date    7:10    8.99  n/a
01571>                      +  04:VG-7      39.20     .172 No_date    5:40    9.84  n/a
01572>                      +  05:VG-8      91.80     .853 No_date    4:00   14.85  n/a
01573>                      +  06:VG-9      11.40     .667 No_date    1:25   17.49  n/a
01574>                      +  09:VGR2-2   890.10    2.863 No_date    5:10    9.23  n/a
01575>       [DT= 5.00]  SUM=  01:Fortun  1126.70    4.068 No_date    4:50    9.77  n/a
01576>  102:0046--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01577>      SAVE HYD           01:Fortun  1126.70    4.068 No_date    4:50    9.77  n/a
01578>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-Fortun.102
01579>       remark:Fortune
01580>  102:0047--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01581>      ROUTE CHANNEL   -> 01:Fortun  1126.70    4.068 No_date    4:50    9.77  n/a
01582>       [RDT= 5.00] out<- 03:VGR2-3  1126.70    4.021 No_date    5:10    9.77  n/a
01583>       [L/S/n=  750./ .200/.035]
01584>       {Vmax=  .545:Dmax=  .465}
01585>  102:0048--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01586>      CALIB STANDHYD     02:VG-10     20.30    1.172 No_date    1:25   17.49 .516
01587>       [XIMP=.40:TIMP=.50]
01588>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01589>       [Pervious     area: IAper= 1.50:SLPP=1.50:LGP=  50.:MNP=.250:SCP=   .0]
01590>       [Impervious   area: IAimp=  .80:SLPI= .30:LGI= 560.:MNI=.013:SCI=   .0]
01591>  102:0049--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01592>      ADD HYD            02:VG-10     20.30    1.172 No_date    1:25   17.49  n/a
01593>                      +  03:VGR2-3  1126.70    4.021 No_date    5:10    9.77  n/a
01594>       [DT= 5.00]  SUM=  09:JockVG  1147.00    4.022 No_date    5:10    9.91  n/a
01595>  102:0050--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01596>      SAVE HYD           09:JockVG  1147.00    4.022 No_date    5:10    9.91  n/a
01597>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-JockVG.102
01598>       remark:Flow from Van Gaal Drain at Jock River
01599>   ** END OF RUN : 104
01600>
01601> ************************************************************************
01602>
01603>
01604>
01605>
01606>
01607>  RUN:COMMAND#
01608>  105:0001--------------------------------------------------------------------
01609>      START
01610>       [TZERO =    .00 hrs on        0]
01611>       [METOUT=   2    (1=imperial, 2=metric output)]
01612>       [NSTORM=   1 ]
01613>       [NRUN  = 105 ]
01614> #*************************************************************************
01615> #  SWMHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
01616> #*************************************************************************
01617> #  Project Name: [Richmond FPM]    Project Number: [709]
01618> #  Date        : 04-21-2009
01619> #  Revised     : 05-27-2009; 07-22-2009; 08-06-2009; 08-31-2009; 11-16-2009
01620> #  Modeller    : [Bryan Willcott B.Eng.]
01621> #  Company     : J.F. Sabourin and Associates
01622> #  License #   : 3410370
01623> #*************************************************************************
01624> #*************************************************************************
01625> #  [BW] May 27, 2009
01626> #  This model has been updated using revised values for Tp. Previous versions
01627> #  of this model used a calculated Tp=0.6Tc.  This model used a calculated
01628> #  Tp=0.67Tc.
01629> #*************************************************************************
01630> #  [BW] July 22, 2009
01631> #  This model has been revised to include "existing" cross section information
01632> #  received from Robinson Consultants.  The Cross section revised in the model
01633> #  is Sec 5.2 (channel receiving flow from "arbuck"). Also, channel and
01634> #  floodplain slopes for ROUTE CHANNEL commands were updated to be equal
01635> #*************************************************************************
01636> #  [BW] August 6, 2009
01637> #  This model has been revised to include cross section information
01638> #  from Robinson Consultants Engineer's Report July 2003.  The cross
01639> #  section revised in the model is Sec 5.1.  Cross sections Sec 1.03
01640> #  and Sec 5.3 have also been revised
01641> #*************************************************************************
01642> #  [BW] August 31, 2009
01643> #  Model updated to include the proposed DSEL berm. This affects the geometry
01644> #  of Route Channel Sect 5.2 located on the Arbuckle drain.  Route Channels 5.2
01645> #  and 1.03 have also been revised to reduce the number of values in the
01646> #  x-y matrix.
01647> #*************************************************************************
01648> #  [BW] November 16, 2009
01649> #  Model updated to include revised CN and Tp values subsequent to review of
01650> #  memo received from AECOM on Oct. 2, 2009
01651> #*************************************************************************
01652> #
01653>  105:0002--------------------------------------------------------------------
01654>      READ STORM
01655>       Filename = STORM.001
01656>       Comment  = 5 years Chicago Storm 4 Hours step 10 min, City of Ottawa
01657>       [SDT=10.00:SDUR=   4.00:PTOT=  45.17]
01658> #*************************************************************************
01659> # Van Gaal / Arbuckle Drain
01660> #*************************************************************************
01661> # DSEL SUBCATCHMENT VG-1 HAS BEEN BROKEN INTO 6 SUB-AREAS (BW)
01662> #*************************************************************************
01663>  105:0003--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01664>      CALIB NASHYD       01:VG-1A    311.90    1.095 No_date    7:10   12.59 .279
01665>       [CN= 73.0: N= 3.00]
01666>       [Tp= 5.30:DT= 5.00]
01667>  105:0004--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01668>      SAVE HYD           01:VG-1A    311.90    1.095 No_date    7:10   12.59  n/a
01669>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG-1A.105
01670>       remark:VG-1A
01671> #*************************************************************************
01672> # Tp FOR VG-1B HAS BEEN REVISED TO REFLECT A HYDRAULIC LENGTH OF 1710 m, A
01673> # LENGTH THAT INCLUDES DISTANCE TO THE VG1-1 CONFLUENCE IN ADDITION TO THE
01674> # LONGEST FLOW PATH WITHIN VG-1B. THIS IS DONE TO SIMULATE CHANNEL ROUTING
01675> #*************************************************************************
01676>  105:0005--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01677>      CALIB NASHYD       02:VG-1B     24.80     .159 No_date    4:40   12.54 .278
01678>       [CN= 73.0: N= 3.00]
01679>       [Tp= 2.70:DT= 5.00]
01680> #*************************************************************************
01681> # VG1-1 IS THE SUM OF FLOWS TO THE CONFLUENCE OF NORTHERN MOST WATERCOURSE IN
01682> # OUR AREA OF STUDY WITH THE ROADSIDE DITCH ON GARVIN ROAD
01683> #*************************************************************************
01684> #
01685>  105:0006--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01686>      ADD HYD            01:VG-1A    311.90    1.095 No_date    7:10   12.59  n/a
01687>                      +  02:VG-1B     24.80     .159 No_date    4:40   12.54  n/a
01688>       [DT= 5.00]  SUM=  03:VG1-1    336.70    1.197 No_date    6:45   12.59  n/a
01689>  105:0007--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01690>      SAVE HYD           03:VG1-1    336.70    1.197 No_date    6:45   12.59  n/a
01691>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG1-1.105
01692>       remark:VG1-1
01693>  105:0008--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01694>      CALIB NASHYD       04:VG-1D     47.80     .799 No_date    3:30   23.55 .521
01695>       [CN= 88.0: N= 3.00]
01696>       [Tp= 1.80:DT= 5.00]
01697> #*************************************************************************
01698> # VG1-2 IS THE SUM OF FLOWS AT THE GARVIN ROAD CROSS CULVERT AND
01699> # CONSERVATIVELY INCLUDES THE AREA VG-1D,  WHICH IS LOCATED JUST DOWNSTREAM
01700> # OF THE CULVERT
01701> #*************************************************************************
01702> #
01703>  105:0009--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01704>      ADD HYD            03:VG1-1    336.70    1.197 No_date    6:45   12.59  n/a
```

```
                    +  04:VG-1D     47.80     .799 No_date    3:30   23.55  n/a
      [DT= 5.00]  SUM=  05:VG1-2    384.50    1.615 No_date    4:50   13.95  n/a
 105:0010---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     SAVE HYD           05:VG1-2    384.50    1.615 No_date    4:50   13.95  n/a
      fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG1-2.105
      remark:VG1-2
 105:0011---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     ROUTE CHANNEL   -> 05:VG1-2    384.50    1.615 No_date    4:50   13.95  n/a
      [RDT= 5.00] out<- 06:VG1R-2   384.50    1.570 No_date    5:40   13.95  n/a
      [L/S/n=  865./ .150/.035]
      {Vmax=  .431:Dmax=  .572}
 105:0012---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     CALIB NASHYD       07:VG-1C    211.80     .750 No_date    6:35   11.34 .251
      [CN= 70.0: N= 3.00]
      [Tp= 4.70:DT= 5.00]
 105:0013---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     CALIB NASHYD       08:VG-1E     13.40     .247 No_date    2:05   12.54 .278
      [CN= 73.0: N= 3.00]
      [Tp=  .64:DT= 5.00]
#*******************************************************************************
# VG1-3 IS THE SUM OF FLOWS TO JOY'S ROAD CROSS CULVERT AND CONSERVATIVELY
# INCLUDES THE AREA VG-1E, WHICH IS LOCATED JUST DOWNSTREAM OF THE CULVERT
#*******************************************************************************
#
 105:0014---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     ADD HYD            07:VG-1C    211.80     .750 No_date    6:35   11.34  n/a
                    +  08:VG-1E     13.40     .247 No_date    2:05   12.54  n/a
      [DT= 5.00]  SUM=  09:VG1-3    225.20     .751 No_date    6:35   11.41  n/a
 105:0015---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     SAVE HYD           09:VG1-3    225.20     .751 No_date    6:35   11.41  n/a
      fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG1-3.105
      remark:VG1-3
 105:0016---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     ROUTE CHANNEL   -> 09:VG1-3    225.20     .751 No_date    6:35   11.41  n/a
      [RDT= 5.00] out<- 10:VG1R-3   225.20     .742 No_date    7:00   11.41  n/a
      [L/S/n=  630./ .200/.035]
      {Vmax=  .283:Dmax=  .390}
#*******************************************************************************
# VG1-4 IS THE SUM OF FLOWS AT THE CONFLUENCE OF THE WATERCOURSE FROM JOY'S
# ROAD WITH THE MAIN DRAIN
#*******************************************************************************
#
 105:0017---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     ADD HYD            06:VG1R-2   384.50    1.570 No_date    5:40   13.95  n/a
                    +  10:VG1R-3   225.20     .742 No_date    7:00   11.41  n/a
      [DT= 5.00]  SUM=  01:VG1-4    609.70    2.268 No_date    6:05   13.01  n/a
 105:0018---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     SAVE HYD           01:VG1-4    609.70    2.268 No_date    6:05   13.01  n/a
      fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG1-4.105
      remark:VG1-4
 105:0019---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     ROUTE CHANNEL   -> 01:VG1-4    609.70    2.268 No_date    6:05   13.01  n/a
      [RDT= 5.00] out<- 02:VG1R-4   609.70    2.253 No_date    6:40   13.01  n/a
      [L/S/n=  485./ .200/.035]
      {Vmax=  .476:Dmax=  .980}
 105:0020---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     CALIB NASHYD       03:VG-1F    117.70    1.230 No_date    4:45   21.59 .478
      [CN= 86.0: N= 3.00]
      [Tp= 2.90:DT= 5.00]
#*******************************************************************************
# VG1 IS THE SUM OF FLOWS AT THE CONFLUENCE OF THE VAN GAAL WEST MAIN DRAIN
# WITH VAN GAAL WEST TRIBUTARY
#*******************************************************************************
#
 105:0021---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     ADD HYD            02:VG1R-4   609.70    2.253 No_date    6:40   13.01  n/a
                    +  03:VG-1F    117.70    1.230 No_date    4:45   21.59  n/a
      [DT= 5.00]  SUM=  04:VG1      727.40    3.314 No_date    5:40   14.40  n/a
 105:0022---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     SAVE HYD           04:VG1      727.40    3.314 No_date    5:40   14.40  n/a
      fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG1.105
      remark:VG1
 105:0023---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     ROUTE CHANNEL   -> 04:VG1      727.40    3.314 No_date    5:40   14.40  n/a
      [RDT= 5.00] out<- 05:VGR2-1   727.40    3.306 No_date    5:55   14.40  n/a
      [L/S/n=  755./ .200/.035]
      {Vmax=  .890:Dmax=  .888}
 105:0024---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     CALIB NASHYD       06:VG-2      63.10     .855 No_date    3:20   17.61 .390
      [CN= 81.0: N= 3.00]
      [Tp= 1.60:DT= 5.00]
 105:0025---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     ROUTE CHANNEL   -> 06:VG-2      63.10     .855 No_date    3:20   17.61  n/a
      [RDT= 5.00] out<- 07:PerN      63.10     .767 No_date    4:05   17.61  n/a
      [L/S/n=  550./ .200/.035]
      {Vmax=  .243:Dmax=  .668}
 105:0026---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     CALIB NASHYD       08:VG-3      40.60     .744 No_date    3:15   23.55 .521
      [CN= 88.0: N= 3.00]
      [Tp= 1.60:DT= 5.00]
 105:0027---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     CALIB STANDHYD     09:VG-4      24.60    1.982 No_date    1:35   26.23 .581
      [XIMP=.40:TIMP=.50]
      [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
      [Pervious     area: IAper= 1.50:SLPP=1.50:LGP=  35.:MNP=.250:SCP=   .0]
      [Impervious   area: IAimp=  .80:SLPI= .30:LGI=1000.:MNI=.013:SCI=   .0]
 105:0028---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     ADD HYD            05:VGR2-1   727.40    3.306 No_date    5:55   14.40  n/a
                    +  07:PerN      63.10     .767 No_date    4:05   17.61  n/a
                    +  08:VG-3      40.60     .744 No_date    3:15   23.55  n/a
                    +  09:VG-4      24.60    1.982 No_date    1:35   26.23  n/a
      [DT= 5.00]  SUM=  01:perths   855.70    4.332 No_date    4:50   15.41  n/a
 105:0029---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     SAVE HYD           01:perths   855.70    4.332 No_date    4:50   15.41  n/a
      fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-perths.105
      remark:perthst
 105:0030---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     CALIB NASHYD       02:VG-5      34.40     .291 No_date    4:15   14.53 .322
      [CN= 76.0: N= 3.00]
      [Tp= 2.30:DT= 5.00]
 105:0031---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     ROUTE CHANNEL   -> 02:VG-5      34.40     .291 No_date    4:15   14.53  n/a
      [RDT= 5.00] out<- 03:PerS      34.40     .284 No_date    4:45   14.53  n/a
      [L/S/n=  550./ .200/.035]
      {Vmax=  .424:Dmax=  .529}
 105:0032---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     ADD HYD            01:perths   855.70    4.332 No_date    4:50   15.41  n/a
                    +  03:PerS      34.40     .284 No_date    4:45   14.53  n/a
      [DT= 5.00]  SUM=  02:arbuck   890.10    4.616 No_date    4:50   15.38  n/a
 105:0033---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     SAVE HYD           02:arbuck   890.10    4.616 No_date    4:50   15.38  n/a
      fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-arbuck.105
      remark:arbuck
 105:0034---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     ROUTE CHANNEL   -> 02:arbuck   890.10    4.616 No_date    4:50   15.38  n/a
      [RDT= 5.00] out<- 09:VGR2-2   890.10    4.564 No_date    5:15   15.38  n/a
      [L/S/n=  520./ .150/.035]
      {Vmax=  .520:Dmax= 1.140}
 105:0035---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     CALIB NASHYD       01:VG-6      94.20     .632 No_date    5:05   15.12 .335
      [CN= 77.0: N= 3.00]
      [Tp= 3.20:DT= 5.00]
 105:0036---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     ROUTE CHANNEL   -> 01:VG-6      94.20     .632 No_date    5:05   15.12  n/a
      [RDT= 5.00] out<- 02:VG-6      94.20     .537 No_date    8:10   15.12  n/a
      [L/S/n=  600./ .180/.035]
      {Vmax=  .095:Dmax=  .439}
 105:0037---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     SAVE HYD           02:VG-6      94.20     .537 No_date    8:10   15.12  n/a
      fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG-6.105
      remark:VG-6
 105:0038---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
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01847>      CALIB NASHYD       03:VG-7      39.20     .313 No_date    4:50   16.51 .365
01848>       [CN= 80.0: N= 3.00]
01849>       [Tp= 2.90:DT= 5.00]
01850>  105:0039---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01851>      SAVE HYD           03:VG-7      39.20     .313 No_date    4:50   16.51  n/a
01852>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG-7.105
01853>       remark:VG-7
01854>  105:0040---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01855>      ROUTE CHANNEL   -> 03:VG-7      39.20     .313 No_date    4:50   16.51  n/a
01856>       [RDT= 5.00] out<- 04:VG-7      39.20     .285 No_date    6:30   16.51  n/a
01857>       [L/S/n= 1480./ .200/.035]
01858>       {Vmax=  .336:Dmax=  .537}
01859>  105:0041---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01860>      ADD HYD            02:VG-6      94.20     .537 No_date    8:10   15.12  n/a
01861>                       +  04:VG-7      39.20     .285 No_date    6:30   16.51  n/a
01862>       [DT= 5.00]  SUM=  05:Moore    133.40     .774 No_date    6:40   15.53  n/a
01863>  105:0042---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01864>      SAVE HYD           05:Moore    133.40     .774 No_date    6:40   15.53  n/a
01865>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-Moore.105
01866>       remark:Moore
01867>  105:0043---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01868>      CALIB NASHYD       05:VG-8      91.80    1.356 No_date    3:55   23.47 .520
01869>       [CN= 88.0: N= 3.00]
01870>       [Tp= 2.10:DT= 5.00]
01871>  105:0044---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01872>      CALIB STANDHYD     06:VG-9      11.40    1.122 No_date    1:25   26.23 .581
01873>       [XIMP=.40:TIMP=.50]
01874>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01875>       [Pervious     area: IAper= 1.50:SLPP=1.50:LGP=  50.:MNP=.250:SCP=   .0]
01876>       [Impervious   area: IAimp=  .80:SLPI= .30:LGI= 530.:MNI=.013:SCI=   .0]
01877>  105:0045---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01878>      ADD HYD            02:VG-6      94.20     .537 No_date    8:10   15.12  n/a
01879>                       +  04:VG-7      39.20     .285 No_date    6:30   16.51  n/a
01880>                       +  05:VG-8      91.80    1.356 No_date    3:55   23.47  n/a
01881>                       +  06:VG-9      11.40    1.122 No_date    1:25   26.23  n/a
01882>                       +  09:VGR2-2   890.10    4.564 No_date    5:15   15.38  n/a
01883>       [DT= 5.00]  SUM=  01:Fortun  1126.70    6.366 No_date    4:55   16.17  n/a
01884>  105:0046---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01885>      SAVE HYD           01:Fortun  1126.70    6.366 No_date    4:55   16.17  n/a
01886>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-Fortun.105
01887>       remark:Fortune
01888>  105:0047---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01889>      ROUTE CHANNEL   -> 01:Fortun  1126.70    6.366 No_date    4:55   16.17  n/a
01890>       [RDT= 5.00] out<- 03:VGR2-3  1126.70    6.318 No_date    5:15   16.17  n/a
01891>       [L/S/n=  750./ .200/.035]
01892>       {Vmax=  .618:Dmax=  .567}
01893>  105:0048---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01894>      CALIB STANDHYD     02:VG-10     20.30    1.974 No_date    1:25   26.23 .581
01895>       [XIMP=.40:TIMP=.50]
01896>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01897>       [Pervious     area: IAper= 1.50:SLPP=1.50:LGP=  50.:MNP=.250:SCP=   .0]
01898>       [Impervious   area: IAimp=  .80:SLPI= .30:LGI= 560.:MNI=.013:SCI=   .0]
01899>  105:0049---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01900>      ADD HYD            02:VG-10     20.30    1.974 No_date    1:25   26.23  n/a
01901>                       +  03:VGR2-3  1126.70    6.318 No_date    5:15   16.17  n/a
01902>       [DT= 5.00]  SUM=  09:JockVG  1147.00    6.318 No_date    5:15   16.34  n/a
01903>  105:0050---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01904>      SAVE HYD           09:JockVG  1147.00    6.318 No_date    5:15   16.34  n/a
01905>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-JockVG.105
01906>       remark:Flow from Van Gaal Drain at Jock River
01907>   ** END OF RUN : 198
01908>
01909> ************************************************************************
01910>
01911>
01912>
01913>
01914>
01915>  RUN:COMMAND#
01916>  199:0001---------------------------------------------------------------------
01917>      START
01918>       [TZERO =    .00 hrs on        0]
01919>       [METOUT=   2    (1=imperial, 2=metric output)]
01920>       [NSTORM=   1 ]
01921>       [NRUN  = 199 ]
01922> #*******************************************************************************
01923> #  SWMHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
01924> #*******************************************************************************
01925> #  Project Name: [Richmond FPM]    Project Number: [709]
01926> #  Date        : 04-21-2009
01927> #  Revised     : 05-27-2009; 07-22-2009; 08-06-2009; 08-31-2009; 11-16-2009
01928> #  Modeller    : [Bryan Willcott B.Eng.]
01929> #  Company     : J.F. Sabourin and Associates
01930> #  License #   : 3410370
01931> #*******************************************************************************
01932> #*******************************************************************************
01933> #  [BW] May 27, 2009
01934> #  This model has been updated using revised values for Tp. Previous versions
01935> #  of this model used a calculated Tp=0.6Tc.  This model used a calculated
01936> #  Tp=0.67Tc.
01937> #*******************************************************************************
01938> #  [BW] July 22, 2009
01939> #  This model has been revised to include "existing" cross section information
01940> #  received from Robinson Consultants.  The Cross section revised in the model
01941> #  is Sec 5.2 (channel receiving flow from "arbuck"). Also, channel and
01942> #  floodplain slopes for ROUTE CHANNEL commands were updated to be equal
01943> #*******************************************************************************
01944> #  [BW] August 6, 2009
01945> #  This model has been revised to include cross section information
01946> #  from Robinson Consultants Engineer's Report July 2003.  The cross
01947> #  section revised in the model is Sec 5.1.  Cross sections Sec 1.03
01948> #  and Sec 5.3 have also been revised
01949> #*******************************************************************************
01950> #  [BW] August 31, 2009
01951> #  Model updated to include the proposed DSEL berm. This affects the geometry
01952> #  of Route Channel Sect 5.2 located on the Arbuckle drain.  Route Channels 5.2
01953> #  and 1.03 have also been revised to reduce the number of values in the
01954> #  x-y matrix.
01955> #*******************************************************************************
01956> #  [BW] November 16, 2009
01957> #  Model updated to include revised CN and Tp values subsequent to review of
01958> #  memo received from AECOM on Oct. 2, 2009
01959> #*******************************************************************************
01960> #
01961>  199:0002---------------------------------------------------------------------------
01962>      READ STORM
01963>       Filename = STORM.001
01964>       Comment  = 100 years Chicago Storm 4 Hours step 10 min, City of Ottawa
01965>       [SDT=10.00:SDUR=   4.00:PTOT=  76.00]
01966> #*******************************************************************************
01967> # Van Gaal / Arbuckle Drain
01968> #*******************************************************************************
01969> # DSEL SUBCATCHMENT VG-1 HAS BEEN BROKEN INTO 6 SUB-AREAS (BW)
01970> #*******************************************************************************
01971>  199:0003---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01972>      CALIB NASHYD       01:VG-1A    311.90    2.725 No_date    7:05   31.31 .412
01973>       [CN= 73.0: N= 3.00]
01974>       [Tp= 5.30:DT= 5.00]
01975>  199:0004---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01976>      SAVE HYD           01:VG-1A    311.90    2.725 No_date    7:05   31.31  n/a
01977>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG-1A.199
01978>       remark:VG-1A
01979> #*******************************************************************************
01980> # Tp FOR VG-1B HAS BEEN REVISED TO REFLECT A HYDRAULIC LENGTH OF 1710 m, A
01981> # LENGTH THAT INCLUDES DISTANCE TO THE VG1-1 CONFLUENCE IN ADDITION TO THE
01982> # LONGEST FLOW PATH WITHIN VG-1B. THIS IS DONE TO SIMULATE CHANNEL ROUTING
01983> #*******************************************************************************
01984>  199:0005---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01985>      CALIB NASHYD       02:VG-1B     24.80     .398 No_date    4:35   31.24 .411
01986>       [CN= 73.0: N= 3.00]
01987>       [Tp= 2.70:DT= 5.00]
01988> #*******************************************************************************
```

```
01989> # VG1-1 IS THE SUM OF FLOWS TO THE CONFLUENCE OF NORTHERN MOST WATERCOURSE IN
01990> # OUR AREA OF STUDY WITH THE ROADSIDE DITCH ON GARVIN ROAD
01991> #*****************************************************************************
01992> #
01993>  199:0006---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01994>      ADD HYD            01:VG-1A    311.90    2.725 No_date    7:05   31.31  n/a
01995>                       +  02:VG-1B     24.80     .398 No_date    4:35   31.24  n/a
01996>       [DT= 5.00]  SUM=  03:VG1-1    336.70    2.980 No_date    6:40   31.30  n/a
01997>  199:0007---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01998>      SAVE HYD           03:VG1-1    336.70    2.980 No_date    6:40   31.30  n/a
01999>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG1-1.199
02000>       remark:VG1-1
02001>  199:0008---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
02002>      CALIB NASHYD       04:VG-1D     47.80    1.718 No_date    3:25   49.96 .657
02003>       [CN= 88.0: N= 3.00]
02004>       [Tp= 1.80:DT= 5.00]
02005> #*****************************************************************************
02006> # VG1-2 IS THE SUM OF FLOWS AT THE GARVIN ROAD CROSS CULVERT AND
02007> # CONSERVATIVELY INCLUDES THE AREA VG-1D,  WHICH IS LOCATED JUST DOWNSTREAM
02008> # OF THE CULVERT
02009> #*****************************************************************************
02010> #
02011>  199:0009---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
02012>      ADD HYD            03:VG1-1    336.70    2.980 No_date    6:40   31.30  n/a
02013>                       +  04:VG-1D     47.80    1.718 No_date    3:25   49.96  n/a
02014>       [DT= 5.00]  SUM=  05:VG1-2    384.50    3.803 No_date    4:55   33.62  n/a
02015>  199:0010---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
02016>      SAVE HYD           05:VG1-2    384.50    3.803 No_date    4:55   33.62  n/a
02017>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG1-2.199
02018>       remark:VG1-2
02019>  199:0011---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
02020>      ROUTE CHANNEL   -> 05:VG1-2    384.50    3.803 No_date    4:55   33.62  n/a
02021>       [RDT= 5.00] out<- 06:VG1R-2   384.50    3.604 No_date    6:15   33.62  n/a
02022>       [L/S/n=  865./ .150/.035]
02023>       {Vmax=  .288:Dmax=  .778}
02024>  199:0012---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
02025>      CALIB NASHYD       07:VG-1C    211.80    1.903 No_date    6:30   28.73 .378
02026>       [CN= 70.0: N= 3.00]
02027>       [Tp= 4.70:DT= 5.00]
02028>  199:0013---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
02029>      CALIB NASHYD       08:VG-1E     13.40     .643 No_date    2:05   31.24 .411
02030>       [CN= 73.0: N= 3.00]
02031>       [Tp=  .64:DT= 5.00]
02032> #*****************************************************************************
02033> # VG1-3 IS THE SUM OF FLOWS TO JOY'S ROAD CROSS CULVERT AND CONSERVATIVELY
02034> # INCLUDES THE AREA VG-1E, WHICH IS LOCATED JUST DOWNSTREAM OF THE CULVERT
02035> #*****************************************************************************
02036> #
02037>  199:0014---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
02038>      ADD HYD            07:VG-1C    211.80    1.903 No_date    6:30   28.73  n/a
02039>                       +  08:VG-1E     13.40     .643 No_date    2:05   31.24  n/a
02040>       [DT= 5.00]  SUM=  09:VG1-3    225.20    1.904 No_date    6:30   28.88  n/a
02041>  199:0015---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
02042>      SAVE HYD           09:VG1-3    225.20    1.904 No_date    6:30   28.88  n/a
02043>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG1-3.199
02044>       remark:VG1-3
02045>  199:0016---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
02046>      ROUTE CHANNEL   -> 09:VG1-3    225.20    1.904 No_date    6:30   28.88  n/a
02047>       [RDT= 5.00] out<- 10:VG1R-3   225.20    1.892 No_date    6:50   28.88  n/a
02048>       [L/S/n=  630./ .200/.035]
02049>       {Vmax=  .390:Dmax=  .645}
02050> #*****************************************************************************
02051> # VG1-4 IS THE SUM OF FLOWS AT THE CONFLUENCE OF THE WATERCOURSE FROM JOY'S
02052> # ROAD WITH THE MAIN DRAIN
02053> #*****************************************************************************
02054> #
02055>  199:0017---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
02056>      ADD HYD            06:VG1R-2   384.50    3.604 No_date    6:15   33.62  n/a
02057>                       +  10:VG1R-3   225.20    1.892 No_date    6:50   28.88  n/a
02058>       [DT= 5.00]  SUM=  01:VG1-4    609.70    5.477 No_date    6:25   31.87  n/a
02059>  199:0018---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
02060>      SAVE HYD           01:VG1-4    609.70    5.477 No_date    6:25   31.87  n/a
02061>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG1-4.199
02062>       remark:VG1-4
02063>  199:0019---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
02064>      ROUTE CHANNEL   -> 01:VG1-4    609.70    5.477 No_date    6:25   31.87  n/a
02065>       [RDT= 5.00] out<- 02:VG1R-4   609.70    5.385 No_date    7:15   31.87  n/a
02066>       [L/S/n=  485./ .200/.035]
02067>       {Vmax=  .264:Dmax= 1.166}
02068>  199:0020---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
02069>      CALIB NASHYD       03:VG-1F    117.70    2.686 No_date    4:40   46.95 .618
02070>       [CN= 86.0: N= 3.00]
02071>       [Tp= 2.90:DT= 5.00]
02072> #*****************************************************************************
02073> # VG1 IS THE SUM OF FLOWS AT THE CONFLUENCE OF THE VAN GAAL WEST MAIN DRAIN
02074> # WITH VAN GAAL WEST TRIBUTARY
02075> #*****************************************************************************
02076> #
02077>  199:0021---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
02078>      ADD HYD            02:VG1R-4   609.70    5.385 No_date    7:15   31.87  n/a
02079>                       +  03:VG-1F    117.70    2.686 No_date    4:40   46.95  n/a
02080>       [DT= 5.00]  SUM=  04:VG1      727.40    7.378 No_date    6:00   34.31  n/a
02081>  199:0022---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
02082>      SAVE HYD           04:VG1      727.40    7.378 No_date    6:00   34.31  n/a
02083>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG1.199
02084>       remark:VG1
02085>  199:0023---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
02086>      ROUTE CHANNEL   -> 04:VG1      727.40    7.378 No_date    6:00   34.31  n/a
02087>       [RDT= 5.00] out<- 05:VGR2-1   727.40    7.367 No_date    6:15   34.31  n/a
02088>       [L/S/n=  755./ .200/.035]
02089>       {Vmax= 1.110:Dmax= 1.307}
02090>  199:0024---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
02091>      CALIB NASHYD       06:VG-2      63.10    1.992 No_date    3:15   40.35 .531
02092>       [CN= 81.0: N= 3.00]
02093>       [Tp= 1.60:DT= 5.00]
02094>  199:0025---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
02095>      ROUTE CHANNEL   -> 06:VG-2      63.10    1.992 No_date    3:15   40.35  n/a
02096>       [RDT= 5.00] out<- 07:PerN      63.10    1.774 No_date    4:00   40.35  n/a
02097>       [L/S/n=  550./ .200/.035]
02098>       {Vmax=  .230:Dmax=  .783}
02099>  199:0026---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
02100>      CALIB NASHYD       08:VG-3      40.60    1.603 No_date    3:10   49.96 .657
02101>       [CN= 88.0: N= 3.00]
02102>       [Tp= 1.60:DT= 5.00]
02103>  199:0027---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
02104>      CALIB STANDHYD     09:VG-4      24.60    4.669 No_date    1:30   52.46 .690
02105>       [XIMP=.40:TIMP=.50]
02106>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02107>       [Pervious     area: IAper= 1.50:SLPP=1.50:LGP=  35.:MNP=.250:SCP=   .0]
02108>       [Impervious   area: IAimp=  .80:SLPI= .30:LGI=1000.:MNI=.013:SCI=   .0]
02109>  199:0028---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
02110>      ADD HYD            05:VGR2-1   727.40    7.367 No_date    6:15   34.31  n/a
02111>                       +  07:PerN      63.10    1.774 No_date    4:00   40.35  n/a
02112>                       +  08:VG-3      40.60    1.603 No_date    3:10   49.96  n/a
02113>                       +  09:VG-4      24.60    4.669 No_date    1:30   52.46  n/a
02114>       [DT= 5.00]  SUM=  01:perths   855.70    9.297 No_date    4:55   36.02  n/a
02115>  199:0029---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
02116>      SAVE HYD           01:perths   855.70    9.297 No_date    4:55   36.02  n/a
02117>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-perths.199
02118>       remark:perthst
02119>  199:0030---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
02120>      CALIB NASHYD       02:VG-5      34.40     .701 No_date    4:10   34.78 .458
02121>       [CN= 76.0: N= 3.00]
02122>       [Tp= 2.30:DT= 5.00]
02123>  199:0031---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
02124>      ROUTE CHANNEL   -> 02:VG-5      34.40     .701 No_date    4:10   34.78  n/a
02125>       [RDT= 5.00] out<- 03:PerS      34.40     .657 No_date    4:50   34.78  n/a
02126>       [L/S/n=  550./ .200/.035]
02127>       {Vmax=  .253:Dmax=  .645}
02128>  199:0032---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
02129>      ADD HYD            01:perths   855.70    9.297 No_date    4:55   36.02  n/a
02130>                       +  03:PerS      34.40     .657 No_date    4:50   34.78  n/a
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02131>       [DT= 5.00]  SUM=  02:arbuck   890.10    9.954 No_date    4:55   35.97  n/a
02132>  199:0033--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
02133>      SAVE HYD           02:arbuck   890.10    9.954 No_date    4:55   35.97  n/a
02134>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-arbuck.199
02135>       remark:arbuck
02136>  199:0034--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
02137>      ROUTE CHANNEL   -> 02:arbuck   890.10    9.954 No_date    4:55   35.97  n/a
02138>       [RDT= 5.00] out<- 09:VGR2-2   890.10    9.812 No_date    5:15   35.97  n/a
02139>       [L/S/n=  520./ .150/.035]
02140>       {Vmax=  .415:Dmax= 1.400}
02141>  199:0035--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
02142>      CALIB NASHYD       01:VG-6      94.20    1.503 No_date    5:00   35.87 .472
02143>       [CN= 77.0: N= 3.00]
02144>       [Tp= 3.20:DT= 5.00]
02145>  199:0036--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
02146>      ROUTE CHANNEL   -> 01:VG-6      94.20    1.503 No_date    5:00   35.87  n/a
02147>       [RDT= 5.00] out<- 02:VG-6      94.20    1.174 No_date    7:15   35.87  n/a
02148>       [L/S/n=  600./ .180/.035]
02149>       {Vmax=  .077:Dmax=  .470}
02150>  199:0037--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
02151>      SAVE HYD           02:VG-6      94.20    1.174 No_date    7:15   35.87  n/a
02152>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG-6.199
02153>       remark:VG-6
02154>  199:0038--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
02155>      CALIB NASHYD       03:VG-7      39.20     .735 No_date    4:45   38.65 .509
02156>       [CN= 80.0: N= 3.00]
02157>       [Tp= 2.90:DT= 5.00]
02158>  199:0039--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
02159>      SAVE HYD           03:VG-7      39.20     .735 No_date    4:45   38.65  n/a
02160>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG-7.199
02161>       remark:VG-7
02162>  199:0040--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
02163>      ROUTE CHANNEL   -> 03:VG-7      39.20     .735 No_date    4:45   38.65  n/a
02164>       [RDT= 5.00] out<- 04:VG-7      39.20     .566 No_date    7:45   38.65  n/a
02165>       [L/S/n= 1480./ .200/.035]
02166>       {Vmax=  .177:Dmax=  .617}
02167>  199:0041--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
02168>      ADD HYD            02:VG-6      94.20    1.174 No_date    7:15   35.87  n/a
02169>                       +  04:VG-7      39.20     .566 No_date    7:45   38.65  n/a
02170>       [DT= 5.00]  SUM=  05:Moore    133.40    1.736 No_date    7:10   36.69  n/a
02171>  199:0042--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
02172>      SAVE HYD           05:Moore    133.40    1.736 No_date    7:10   36.69  n/a
02173>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-Moore.199
02174>       remark:Moore
02175>  199:0043--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
02176>      CALIB NASHYD       05:VG-8      91.80    2.908 No_date    3:50   49.87 .656
02177>       [CN= 88.0: N= 3.00]
02178>       [Tp= 2.10:DT= 5.00]
02179>  199:0044--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
02180>      CALIB STANDHYD     06:VG-9      11.40    2.701 No_date    1:25   52.46 .690
02181>       [XIMP=.40:TIMP=.50]
02182>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02183>       [Pervious     area: IAper= 1.50:SLPP=1.50:LGP=  50.:MNP=.250:SCP=   .0]
02184>       [Impervious   area: IAimp=  .80:SLPI= .30:LGI= 530.:MNI=.013:SCI=   .0]
02185>  199:0045--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
02186>      ADD HYD            02:VG-6      94.20    1.174 No_date    7:15   35.87  n/a
02187>                       +  04:VG-7      39.20     .566 No_date    7:45   38.65  n/a
02188>                       +  05:VG-8      91.80    2.908 No_date    3:50   49.87  n/a
02189>                       +  06:VG-9      11.40    2.701 No_date    1:25   52.46  n/a
02190>                       +  09:VGR2-2   890.10    9.812 No_date    5:15   35.97  n/a
02191>       [DT= 5.00]  SUM=  01:Fortun  1126.70   13.483 No_date    5:10   37.35  n/a
02192>  199:0046--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
02193>      SAVE HYD           01:Fortun  1126.70   13.483 No_date    5:10   37.35  n/a
02194>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-Fortun.199
02195>       remark:Fortune
02196>  199:0047--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
02197>      ROUTE CHANNEL   -> 01:Fortun  1126.70   13.483 No_date    5:10   37.35  n/a
02198>       [RDT= 5.00] out<- 03:VGR2-3  1126.70   13.433 No_date    5:20   37.35  n/a
02199>       [L/S/n=  750./ .200/.035]
02200>       {Vmax=  .756:Dmax=  .784}
02201>  199:0048--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
02202>      CALIB STANDHYD     02:VG-10     20.30    4.760 No_date    1:25   52.46 .690
02203>       [XIMP=.40:TIMP=.50]
02204>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02205>       [Pervious     area: IAper= 1.50:SLPP=1.50:LGP=  50.:MNP=.250:SCP=   .0]
02206>       [Impervious   area: IAimp=  .80:SLPI= .30:LGI= 560.:MNI=.013:SCI=   .0]
02207>  199:0049--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
02208>      ADD HYD            02:VG-10     20.30    4.760 No_date    1:25   52.46  n/a
02209>                       +  03:VGR2-3  1126.70   13.433 No_date    5:20   37.35  n/a
02210>       [DT= 5.00]  SUM=  09:JockVG  1147.00   13.433 No_date    5:20   37.62  n/a
02211>  199:0050--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
02212>      SAVE HYD           09:JockVG  1147.00   13.433 No_date    5:20   37.62  n/a
02213>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-JockVG.199
02214>       remark:Flow from Van Gaal Drain at Jock River
02215>  199:0002--------------------------------------------------------------------------
02216>       FINISH
02217> --------------------------------------------------------------------------------
02218> ********************************************************************************
02219>      WARNINGS / ERRORS / NOTES
02220>      -------------------------
02221>    Simulation ended on 2009-11-25     at 18:46:35
02222> ================================================================================
02223>
02224>
```

```
00001> 2     Metric units
00002> *#*************************************************************************
00003> *#  SWMHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
00004> *#*************************************************************************
00005> *#  Project Name: [Richmond FPM]    Project Number: [709]
00006> *#  Date        : 04-21-2009
00007> *#  Revised     : 04-31-2009; 05-25-2009; 07-22-2009; 08-06-2009; 08-31-2009
00008> *#                11-16-2009
00009> *#  Modeller    : [Bryan Willcott B.Eng.]
00010> *#  Company     : J.F. Sabourin and Associates
00011> *#  License #   : 3410370
00012> *#*************************************************************************
00013> *#  [BW] April 31, 2009
00014> *#  This model is the same as the JFSA summer model with the exception of the
00015> *#  storm files used and the CN values have been increased to 95
00016> *#*************************************************************************
00017> *#  [BW] May 25, 2009
00018> *#  This model has been updated using revised values for Tp. Previous versions
00019> *#  of this model used a calculated Tp=0.6Tc.  This model used a calculated
00020> *#  Tp=0.67Tc. Manning's n values for the overbanks in the ROUTE CHANNEL
00021> *#  commands have been changed to 0.05 for Spring conditions.  Design storms
00022> *#  have changed to match those used in the Jock River Model
00023> *#*************************************************************************
00024> *#  [BW] July 22, 2009
00025> *#  This model has been revised to include "existing" cross section information
00026> *#  received from Robinson Consultants.  The Cross section revised in the model
00027> *#  is Sec 5.2 (channel receiving flow from "arbuck"). Also, channel and
00028> *#  floodplain slopes for ROUTE CHANNEL commands were updated to be equal
00029> *#*************************************************************************
00030> *#  [BW] August 6, 2009
00031> *#  This model has been revised to include cross section information
00032> *#  from Robinson Consultants Engineer's Report July 2003.  The cross
00033> *#  section revised in the model is Sec 5.1.  Cross sections Sec 1.03
00034> *#  and Sec 5.3 have also been revised
00035> *#*************************************************************************
00036> *#  [BW] August 31, 2009
00037> *#  Model updated to include the proposed DSEL berm. This affects the geometry
00038> *#  of Route Channel Sect 5.2 located on the Arbuckle drain.  Route Channels 5.2
00039> *#  and 1.03 have also been revised to reduce the number of values in the
00040> *#  x-y matrix
00041> *#*************************************************************************
00042> *#  [BW] November 16, 2009
00043> *#  Model updated to include revised Tp values subsequent to review of
00044> *#  memo received from AECOM on Oct. 2, 2009
00045> *#*************************************************************************
00046> *#
00047> *% 10 day - 2 year storm with snow melt
00048> START               TZERO=[0.0],  METOUT=[2],  NSTORM=[1],  NRUN=[002]
00049>                     ["50021012.STM"]
00050> *%-----------------|-------------------------------------------------------|
00051> READ STORM          STORM_FILENAME=["STORM.001"]
00052> *%-----------------|-------------------------------------------------------|
00053> *%SAVE HYD            ICASEsh=[1] START saving all simulated hydrographs
00054> *%                   {All hydrolographs will be saved as NHYD.NRUN}
00055> *%                   {Use SAVE HYD with ICASEsh=[-2] to cancel the autosave.}
00056> *%-----------------|-------------------------------------------------------|
00057> *%-----------------|-------------------------------------------------------|
00058> *#*************************************************************************
00059> *# Van Gaal / Arbuckle Drain
00060> *#*************************************************************************
00061> *# DSEL SUBCATCHMENT VG-1 HAS BEEN BROKEN INTO 6 SUB-AREAS (BW)
00062> *#*************************************************************************
00063> *%-----------------|-------------------------------------------------------|
00064> CALIB NASHYD        ID=[1], NHYD=["VG-1A"], DT=[5]min, AREA=[311.9](ha),
00065>                     DWF=[0](cms),  CN/C=[95], IA=[3.9](mm),
00066>                     N=[3], TP=[5.3]hrs,
00067>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00068> *%-----------------|-------------------------------------------------------|
00069> SAVE HYD            ID=[1],  # OF PCYCLES=[-1],  ICASEsh=[1]
00070>                     HYD_COMMENT=["VG-1A"]
00071> *%-----------------|-------------------------------------------------------|
00072> *#*************************************************************************
00073> *# Tp FOR VG-1B HAS BEEN REVISED TO REFLECT A HYDRAULIC LENGTH OF 1710 m, A
00074> *# LENGTH THAT INCLUDES DISTANCE TO THE VG1-1 CONFLUENCE IN ADDITION TO THE
00075> *# LONGEST FLOW PATH WITHIN VG-1B. THIS IS DONE TO SIMULATE CHANNEL ROUTING
00076> *#*************************************************************************
00077> CALIB NASHYD        ID=[2], NHYD=["VG-1B"], DT=[5]min, AREA=[24.8](ha),
00078>                     DWF=[0](cms),  CN/C=[95], IA=[4.0](mm),
00079>                     N=[3], TP=[2.7]hrs,
00080>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00081> *%-----------------|-------------------------------------------------------|
00082> *#*************************************************************************
00083> *# VG1-1 IS THE SUM OF FLOWS TO THE CONFLUENCE OF NORTHERN MOST WATERCOURSE IN
00084> *# OUR AREA OF STUDY WITH THE ROADSIDE DITCH ON GARVIN ROAD
00085> *#*************************************************************************
00086> *#
00087> ADD HYD             IDsum=[3], NHYD=["VG1-1"], IDs to add=[1 2]
00088> *%-----------------|-------------------------------------------------------|
00089> SAVE HYD            ID=[3],  # OF PCYCLES=[-1],  ICASEsh=[1]
00090>                     HYD_COMMENT=["VG1-1"]
00091> *%-----------------|-------------------------------------------------------|
00092> CALIB NASHYD        ID=[4], NHYD=["VG-1D"], DT=[5]min, AREA=[47.8](ha),
00093>                     DWF=[0](cms),  CN/C=[95], IA=[2.5](mm),
00094>                     N=[3], TP=[1.8]hrs,
00095>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00096> *%-----------------|-------------------------------------------------------|
00097> *#*************************************************************************
00098> *# VG1-2 IS THE SUM OF FLOWS AT THE GARVIN ROAD CROSS CULVERT AND
00099> *# CONSERVATIVELY INCLUDES THE AREA VG-1D,  WHICH IS LOCATED JUST DOWNSTREAM
00100> *# OF THE CULVERT
00101> *#*************************************************************************
00102> *#
00103> ADD HYD             IDsum=[5], NHYD=["VG1-2"], IDs to add=[3 4]
00104> *%-----------------|-------------------------------------------------------|
00105> SAVE HYD            ID=[5],  # OF PCYCLES=[-1],  ICASEsh=[1]
00106>                     HYD_COMMENT=["VG1-2"]
00107> *%-----------------|-------------------------------------------------------|
00108> ROUTE CHANNEL       IDout=[6], NHYD=["VG1R-2"],IDin=[5],
00109>                     RDT=[5](min),
00110>                     CHLGTH=[865](m),  CHSLOPE=[0.15](%),
00111>                                         FPSLOPE=[0.15](%),
00112>                     SECNUM=[1.01],       NSEG=[3]
00113>                     ( SEGROUGH, SEGDIST (m))=[0.05,51.41 -0.035,55.58 0.05,228.3
00114>                     ( DISTANCE (m), ELEVATION (m))=[0,            96.719]
00115>                                                    [22.98, 96.598]
00116>                                                    [42.45, 96.66]
00117>                                                    [47.63, 96.5]
00118>                                                    [49.64, 96.424]
00119>                                                    [51.41, 96]
00120>                                                    [53.36, 95.79]
00121>                                                    [55.58, 95.887]
00122>                                                    [57.42, 96.242]
00123>                                                    [87.69, 96.5]
00124>                                                    [119.62,        96.509]
00125>                                                    [140.1, 96.601]
00126>                                                    [179.39,        96.722]
00127>                                                    [200.6, 96.89]
00128>                                                    [228.39,        97]
00129> *%-----------------|-------------------------------------------------------|
00130> CALIB NASHYD        ID=[7], NHYD=["VG-1C"], DT=[5]min, AREA=[211.8](ha),
00131>                     DWF=[0](cms),  CN/C=[95], IA=[3.9](mm),
00132>                     N=[3], TP=[4.7]hrs,
00133>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00134> *%-----------------|-------------------------------------------------------|
00135> CALIB NASHYD        ID=[8], NHYD=["VG-1E"], DT=[5]min, AREA=[13.4](ha),
00136>                     DWF=[0](cms),  CN/C=[95], IA=[4.0](mm),
00137>                     N=[3], TP=[0.64]hrs,
00138>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00139> *%-----------------|-------------------------------------------------------|
00140> *#*************************************************************************
00141> *# VG1-3 IS THE SUM OF FLOWS TO JOY'S ROAD CROSS CULVERT AND CONSERVATIVELY
00142> *# INCLUDES THE AREA VG-1E, WHICH IS LOCATED JUST DOWNSTREAM OF THE CULVERT
```

```
00143> *#**************************************************************************
00144> *#
00145> ADD HYD             IDsum=[9], NHYD=["VG1-3"], IDs to add=[7 8]
00146> *%-----------------|-------------------------------------------------------|
00147> SAVE HYD            ID=[9],  # OF PCYCLES=[-1],  ICASEsh=[1]
00148>                     HYD_COMMENT=["VG1-3"]
00149> *%-----------------|-------------------------------------------------------|
00150> ROUTE CHANNEL       IDout=[10], NHYD=["VG1R-3"],IDin=[9],
00151>                     RDT=[5](min),
00152>                     CHLGTH=[630](m),  CHSLOPE=[0.20](%),
00153>                                       FPSLOPE=[0.20](%),
00154>                     SECNUM=[1.02],       NSEG=[3]
00155>                     ( SEGROUGH, SEGDIST (m))=[0.05,80.53 -0.035,82.4 0.05,124.53
00156>                     ( DISTANCE (m), ELEVATION (m))=[0,        97
00157>                                                    0.61,      97.01
00158>                                                    3.8,       97.03
00159>                                                    17.49,     97.18
00160>                                                    19.18,     97.17
00161>                                                    26.62,     97.15
00162>                                                    46.29,     97.12
00163>                                                    73.97,     97.17
00164>                                                    76.3,      97.04
00165>                                                    77.53,     97
00166>                                                    80.53,     96.86
00167>                                                    81.38,     96.5
00168>                                                    82.4,      96.07
00169>                                                    87.91,     96.07
00170>                                                    89.65,     96.5
00171>                                                    90.75,     96.78
00172>                                                    91.88,     96.91
00173>                                                    96.2,      97
00174>                                                    99.01,     97.1
00175>                                                    119.73,    97.14
00176>                                                    124.53,    97]
00177> *%-----------------|-------------------------------------------------------|
00178> *#**************************************************************************
00179> *# VG1-4 IS THE SUM OF FLOWS AT THE CONFLUENCE OF THE WATERCOURSE FROM JOY'S
00180> *# ROAD WITH THE MAIN DRAIN
00181> *#**************************************************************************
00182> *#
00183> ADD HYD             IDsum=[1], NHYD=["VG1-4"], IDs to add=[6 10]
00184> *%-----------------|-------------------------------------------------------|
00185> SAVE HYD            ID=[1],  # OF PCYCLES=[-1],  ICASEsh=[1]
00186>                     HYD_COMMENT=["VG1-4"]
00187> *%-----------------|-------------------------------------------------------|
00188> ROUTE CHANNEL       IDout=[2], NHYD=["VG1R-4"],IDin=[1],
00189>                     RDT=[5](min),
00190>                     CHLGTH=[485](m),  CHSLOPE=[0.20](%),
00191>                                       FPSLOPE=[0.20](%),
00192>                     SECNUM=[1.03],       NSEG=[3]
00193>                     ( SEGROUGH, SEGDIST (m))=[0.05,44.17 -0.035,53.58 0.05,243.3
00194>                     ( DISTANCE (m), ELEVATION (m))=
00195>                     [-44.2, 95.7
00196>                     0, 95.5
00197>                     19.69, 95.421
00198>                     27.91, 95.5
00199>                     31.73, 95.5
00200>                     32.29, 95.325
00201>                     32.71, 95.5
00202>                     41.04, 95.5
00203>                     44.17, 95.449
00204>                     45.63, 95.389
00205>                     48.22, 95
00206>                     48.54, 94.882
00207>                     49.35, 94.5
00208>                     49.64, 94.311
00209>                     50.46, 94.497
00210>                     52.21, 94.993
00211>                     53.58, 95.406
00212>                     55.08, 95.333
00213>                     55.94, 95.157
00214>                     76.35, 95.275
00215>                     131, 95.403
00216>                     213.2, 95.5
00217>                     243.3, 95.8]
00218> *%-----------------|-------------------------------------------------------|
00219> CALIB NASHYD        ID=[3], NHYD=["VG-1F"], DT=[5]min, AREA=[117.7](ha),
00220>                     DWF=[0](cms),  CN/C=[95], IA=[2.6](mm),
00221>                     N=[3], TP=[2.9]hrs,
00222>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00223> *%-----------------|-------------------------------------------------------|
00224> *#**************************************************************************
00225> *# VG1 IS THE SUM OF FLOWS AT THE CONFLUENCE OF THE VAN GAAL WEST MAIN DRAIN
00226> *# WITH VAN GAAL WEST TRIBUTARY
00227> *#**************************************************************************
00228> *#
00229> ADD HYD             IDsum=[4], NHYD=["VG1"], IDs to add=[2 3]
00230> *%-----------------|-------------------------------------------------------|
00231> SAVE HYD            ID=[4],  # OF PCYCLES=[-1],  ICASEsh=[1]
00232>                     HYD_COMMENT=["VG1"]
00233> *%-----------------|-------------------------------------------------------|
00234> ROUTE CHANNEL       IDout=[5], NHYD=["VGR2-1"], IDin=[4],
00235>                     RDT=[5](min),
00236>                     CHLGTH=[755](m),    CHSLOPE=[0.2](%),
00237>                                         FPSLOPE=[0.2](%),
00238>                     SECNUM=[5.1],       NSEG=[3]
00239>                     ( SEGROUGH, SEGDIST (m))=[0.05,98.046 -0.035,105.496 0.05,51
00240>                     ( DISTANCE (m), ELEVATION (m))=[0,            96.11
00241>                                                    20,            94.4
00242>                                                    26.106, 94.5
00243>                                                    41.686, 94.465
00244>                                                    63.506, 94.427
00245>                                                    84.666, 94.492
00246>                                                    95.476, 94.363
00247>                                                    97.736, 94
00248>                                                    98.046, 93.967
00249>                                                    100.336,       92.8193
00250>                                                    101.536,       92.8193
00251>                                                    102.736,       92.8193
00252>                                                    105.496,       94.199
00253>                                                    127.006,       94.345
00254>                                                    142.116,       94.5
00255>                                                    148.376,       94.568
00256>                                                    478.406,       94.7
00257>                                                    518.306,       95]
00258> *%-----------------|-------------------------------------------------------|
00259> CALIB NASHYD        ID=[6], NHYD=["VG-2"], DT=[5]min, AREA=[63.1](ha),
00260>                     DWF=[0](cms),  CN/C=[95], IA=[2.8](mm),
00261>                     N=[3], TP=[1.6]hrs,
00262>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00263> *%-----------------|-------------------------------------------------------|
00264> ROUTE CHANNEL       IDout=[7], NHYD=["PerN"], IDin=[6],
00265>                     RDT=[5](min),
00266>                     CHLGTH=[550](m),  CHSLOPE=[0.2](%),
00267>                                       FPSLOPE=[0.2](%),
00268>                     SECNUM=[1.1],       NSEG=[3]
00269>                     ( SEGROUGH, SEGDIST (m))=[0.05,70 -0.035,72 0.05,77] NSEG ti
00270>                     ( DISTANCE (m), ELEVATION (m))=[0,  94.4]
00271>                                                    [70, 94.0]
00272>                                                    [71, 93.5]
00273>                                                    [72, 94.0]
00274>                                                    [77, 94.4]
00275> *%-----------------|-------------------------------------------------------|
00276> CALIB NASHYD        ID=[8], NHYD=["VG-3"], DT=[5]min, AREA=[40.6](ha),
00277>                     DWF=[0](cms),  CN/C=[95], IA=[2.5](mm),
00278>                     N=[3], TP=[1.6]hrs,
00279>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00280> *%-----------------|-------------------------------------------------------|
00281> CALIB STANDHYD      ID=[9], NHYD=["VG-4"], DT=[5](min), AREA=[24.6](ha),
00282>                     XIMP=[0.4], TIMP=[0.5], DWF=[0](cms), LOSS=[1],
00283>                     Horton: Fo=[76.20](mm/hr), Fc=[13.20](mm/hr),
00284>                             DCAY=[4.14](/hr), F=[0](mm),
```

```
                    Pervious   surfaces: IAper=[1.5](mm), SLPP=[1.5](%),
                                         LGP=[35](m), MNP=[0.250], SCP=[0](min),
                    Impervious surfaces: IAimp=[0.8](mm), SLPI=[0.3](%),
                                         LGI=[1000](m), MNI=[0.013], SCI=[0](min
                    RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*%-----------------|-------------------------------------------------------------|
ADD HYD             IDsum=[1], NHYD=["perthst"], IDs to add=[5 7 8 9]
*%-----------------|-------------------------------------------------------------|
SAVE HYD            ID=[1],  # OF PCYCLES=[-1],  ICASEsh=[1]
                    HYD_COMMENT=["perthst"]
*%-----------------|-------------------------------------------------------------|
CALIB NASHYD        ID=[2], NHYD=["VG-5"], DT=[5]min, AREA=[34.4](ha),
                    DWF=[0](cms),  CN/C=[95], IA=[3.0](mm),
                    N=[3], TP=[2.3]hrs,
                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-------------------------------------------------------------|
ROUTE CHANNEL       IDout=[3], NHYD=["PerS"], IDin=[2],
                    RDT=[5](min),
                    CHLGTH=[550](m),  CHSLOPE=[0.2](%),
                                      FPSLOPE=[0.2](%),
                    SECNUM=[1.1],       NSEG=[3]
                    ( SEGROUGH, SEGDIST (m))=[0.05,70 -0.035,72 0.05,77] NSEG ti
                    ( DISTANCE (m), ELEVATION (m))=[0,  94.4]
                                                   [70, 94.0]
                                                   [71, 93.5]
                                                   [72, 94.0]
                                                   [77, 94.4]
*%-----------------|-------------------------------------------------------------|
ADD HYD             IDsum=[2], NHYD=["arbuck"], IDs to add=[1 3]
*%-----------------|-------------------------------------------------------------|
SAVE HYD            ID=[2],  # OF PCYCLES=[-1],  ICASEsh=[1]
                    HYD_COMMENT=["arbuck"]
*%-----------------|-------------------------------------------------------------|
ROUTE CHANNEL       IDout=[9], NHYD=["VGR2-2"], IDin=[2],
                    RDT=[5](min),
                    CHLGTH=[520](m),    CHSLOPE=[0.15](%),
                                        FPSLOPE=[0.15](%),
                    SECNUM=[5.2],       NSEG=[3]
                    ( SEGROUGH, SEGDIST (m))=[0.05,65.27 -0.035,72.03 0.05,317.3
                    ( DISTANCE (m), ELEVATION (m))=
                    [1.87       94
                    3.26        93.815
                    25.32       93.589
                    40.32       93.586
                    53.15       93.49
                    65.27       92.99
                    67.31       92.06
                    69.39       91.93
                    69.99       92.03
                    70.75       92.68
                    72.03       93
                    78.14       93
                    87.57       92.828
                    98.82       93
                    131.96      93.341
                    152.55      93.318
                    220.7       93.525
                    262.64      93.983
                    274.22      94
                    286.88      94
                    297.86      93.981
                    314.39      94.09
                    317.39, 95.09]
*%-----------------|-------------------------------------------------------------|
CALIB NASHYD        ID=[1], NHYD=["VG-6"], DT=[5]min, AREA=[94.2](ha),
                    DWF=[0](cms),  CN/C=[95], IA=[2.9](mm),
                    N=[3], TP=[3.2]hrs,
                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-------------------------------------------------------------|
ROUTE CHANNEL       IDout=[2], NHYD=["VG-6"], IDin=[1],
                    RDT=[5](min),
                    CHLGTH=[600](m),  CHSLOPE=[0.18](%),
                                      FPSLOPE=[0.18](%),
                    SECNUM=[2.1],       NSEG=[3]
                    ( SEGROUGH, SEGDIST (m))=[0.05,700 -0.035,703 0.05,1000] NSE
                    ( DISTANCE (m), ELEVATION (m))=[0,     94.6]
                                                   [700,   94.5]
                                                   [701.4, 94.1]
                                                   [701.6, 94.1]
                                                   [703,   94.5]
                                                   [1000,  95.1]
*%-----------------|-------------------------------------------------------------|
SAVE HYD            ID=[2],  # OF PCYCLES=[-1],  ICASEsh=[1]
                    HYD_COMMENT=["VG-6"]
*%-----------------|-------------------------------------------------------------|
CALIB NASHYD        ID=[3], NHYD=["VG-7"], DT=[5]min, AREA=[39.2](ha),
                    DWF=[0](cms),  CN/C=[95], IA=[3.5](mm),
                    N=[3], TP=[2.9]hrs,
                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-------------------------------------------------------------|
SAVE HYD            ID=[3],  # OF PCYCLES=[-1],  ICASEsh=[1]
                    HYD_COMMENT=["VG-7"]
*%-----------------|-------------------------------------------------------------|
ROUTE CHANNEL       IDout=[4], NHYD=["VG-7"], IDin=[3],
                    RDT=[5](min),
                    CHLGTH=[1480](m),  CHSLOPE=[0.2](%),
                                       FPSLOPE=[0.2](%),
                    SECNUM=[3.1],       NSEG=[3]
                    ( SEGROUGH, SEGDIST (m))=[0.05,50 -0.035,52 0.05,102] NSEG t
                    ( DISTANCE (m), ELEVATION (m))=[0,95.2]
                                                   [50,95.0]
                                                   [51,94.5]
                                                   [52,95.0]
                                                   [102,95.2]
*%-----------------|-------------------------------------------------------------|
ADD HYD             IDsum=[5], NHYD=["Moore"], IDs to add=[2 4](maximum ten)
*%-----------------|-------------------------------------------------------------|
SAVE HYD            ID=[5],  # OF PCYCLES=[-1],  ICASEsh=[1]
                    HYD_COMMENT=["Moore"]
*%-----------------|-------------------------------------------------------------|
CALIB NASHYD        ID=[5], NHYD=["VG-8"], DT=[5]min, AREA=[91.8](ha),
                    DWF=[0](cms),  CN/C=[95], IA=[2.6](mm),
                    N=[3], TP=[2.1]hrs,
                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-------------------------------------------------------------|
CALIB STANDHYD      ID=[6], NHYD=["VG-9"], DT=[5](min), AREA=[11.4](ha),
                    XIMP=[0.4], TIMP=[0.5], DWF=[0](cms), LOSS=[1],
                    Horton: Fo=[76.20](mm/hr), Fc=[13.20](mm/hr),
                            DCAY=[4.14](/hr), F=[0](mm),
                    Pervious   surfaces: IAper=[1.5](mm), SLPP=[1.5](%),
                                         LGP=[50](m), MNP=[0.250], SCP=[0](min),
                    Impervious surfaces: IAimp=[0.8](mm), SLPI=[0.3](%),
                                         LGI=[530](m), MNI=[0.013], SCI=[0](min)
                    RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*%-----------------|-------------------------------------------------------------|
ADD HYD             IDsum=[1], NHYD=["Fortune"], IDs to add=[2 4 5 6 9]
*%-----------------|-------------------------------------------------------------|
SAVE HYD            ID=[1],  # OF PCYCLES=[-1],  ICASEsh=[1]
                    HYD_COMMENT=["Fortune"]
*%-----------------|-------------------------------------------------------------|
ROUTE CHANNEL       IDout=[3], NHYD=["VGR2-3"], IDin=[1],
                    RDT=[5](min),
                    CHLGTH=[750](m),    CHSLOPE=[0.2](%),
                                        FPSLOPE=[0.2](%),
                    SECNUM=[5.3],       NSEG=[3]
                    ( SEGROUGH, SEGDIST (m))=[0.05,3.22 -0.035,47.84 0.05,77.80]
                    ( DISTANCE (m), ELEVATION (m))=[0,           93.5
                                                   3.22,  93
                                                   20.87, 92.5
                                                   42.19, 92
                                                   47.84, 92
                                                   48.60, 92.5
```

```
00427>                                                  50.14,     93
00428>                                                  72.67,     93.526
00429>                                                  77.80,     93.5]
00430> *%-----------------|-------------------------------------------------------|
00431> CALIB STANDHYD      ID=[2], NHYD=["VG-10"], DT=[5](min), AREA=[20.3](ha),
00432>                     XIMP=[0.4], TIMP=[0.5], DWF=[0](cms), LOSS=[1],
00433>                     Horton: Fo=[76.20](mm/hr), Fc=[13.20](mm/hr),
00434>                             DCAY=[4.14](/hr), F=[0](mm),
00435>                     Pervious   surfaces: IAper=[1.5](mm), SLPP=[1.5](%),
00436>                                         LGP=[50](m), MNP=[0.250], SCP=[0](min),
00437>                     Impervious surfaces: IAimp=[0.8](mm), SLPI=[0.3](%),
00438>                                         LGI=[560](m), MNI=[0.013], SCI=[0](min)
00439>                     RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
00440> *%-----------------|-------------------------------------------------------|
00441> ADD HYD             IDsum=[9], NHYD=["JockVG"], IDs to add=[2 3]
00442> *%-----------------|-------------------------------------------------------|
00443> SAVE HYD            ID=[9],  # OF PCYCLES=[-1],  ICASEsh=[-1]
00444>                     HYD_FILENAME=["JockVG"]
00445>                     HYD_COMMENT=["Flow from Van Gaal at Jock River"]
00446> *%-----------------|-------------------------------------------------------|
00447> *% 10 day - 5 year storm with snow melt
00448> START               TZERO=[0.0],  METOUT=[2],  NSTORM=[1],  NRUN=[005]
00449>                     ["50051012.STM"]
00450> *%-----------------|-------------------------------------------------------|
00451> *% 10 day - 100 year storm with snow melt
00452> START               TZERO=[0.0],  METOUT=[2],  NSTORM=[1],  NRUN=[100]
00453>                     ["51001012.STM"]
00454> *%-----------------|-------------------------------------------------------|
00455> FINISH
00456>
00457>
00458>
00459>
00460>
```

```
00001> ================================================================================
00002>
00003>  SSSSS  W   W  M   M  H   H  Y   Y  M   M   OOO        999    999  =========
00004>  S      W W W  MM MM  H   H   Y Y   MM MM  O   O      9   9  9   9
00005>  SSSSS  W W W  M M M  HHHHH    Y    M M M  O   O  ##  9   9  9   9 Ver5 Beta
00006>      S   W W   M   M  H   H    Y    M   M  O   O       9999   9999 Sept 2000
00007>  SSSSS   W W   M   M  H   H    Y    M   M   OOO           9      9 =========
00008>                                                        9   9  9   9 # 3410370
00009>       StormWater Management HYdrologic Model            999    999  =========
00010>
00011>  ********************************************************************************
00012>  ************************* SWMHYMO Ver/5 Beta ************************************
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) 727-5199            ********
00019>  *******                  Gatineau, Quebec: (819) 243-6858            ********
00020>  *******                  E-Mail: swmhymo@jfsa.com                    ********
00021>  ********************************************************************************
00022>
00023>  +++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
00024>  +++++++ Licensed user: JFSAinc Ottawa                              +++++++
00025>  +++++++                Ottawa                SERIAL#:3410370       +++++++
00026>  +++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
00027>
00028>  ********************************************************************************
00029>  *******           ++++++ PROGRAM ARRAY DIMENSIONS ++++++             ********
00030>  *******           Maximum value for ID numbers  :     10             ********
00031>  *******           Max. number of rainfall points:  52750             ********
00032>  *******           Max. number of flow points    :  52750             ********
00033>  ********************************************************************************
00034>
00035>  *** DESCRIPTION SUMMARY TABLE HEADERS (units depend on METOUT in START) ***
00036>  ***-------------------------------------------------------------------***
00037>  ***    ID:  Hydrograph IDentification numbers, (1-10).                 ***
00038>  ***  NHYD:  Hydrograph reference numbers, (6 digits or characters).    ***
00039>  ***  AREA:  Drainage area associated with hydrograph, (ac.) or (ha.).  ***
00040>  *** QPEAK:  Peak flow of simulated hydrograph, (ft^3/s) or (m^3/s).    ***
00041>  *** TpeakDate_hh:mm is the date and time of the peak flow.             ***
00042>  ***  R.V.:  Runoff Volume of simulated hydrograph, (in) or (mm).       ***
00043>  ***  R.C.:  Runoff Coefficient of simulated hydrograph, (ratio).       ***
00044>  ***     *:  see WARNING or NOTE message printed at end of run.         ***
00045>  ***    **:  see  ERROR  message printed at end of run.                 ***
00046>  ********************************************************************************
00047>  ********************************************************************************
00048>
00049> ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
00050>
00051>  ********************************************************************************
00052>
00053>  ********************   S U M M A R Y   O U T P U T   *********************
00054>  ********************************************************************************
00055>  *       DATE: 2009-11-23     TIME: 10:09:40     RUN COUNTER: 001265       *
00056>  ********************************************************************************
00057>  * Input   filename: Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSPRI~1\spr7JFSA.D*
00058>  * Output  filename: Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSPRI~1\spr7JFSA.o*
00059>  * Summary filename: Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSPRI~1\spr7JFSA.s*
00060>  * User comments:                                                         *
00061>  * 1:_____________________________________________________________________*
00062>  * 2:_____________________________________________________________________*
00063>  * 3:_____________________________________________________________________*
00064>  ********************************************************************************
00065>
00066>
00067> #*******************************************************************************
00068> #  SWMHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
00069> #*******************************************************************************
00070> #  Project Name: [Richmond FPM]    Project Number: [709]
00071> #  Date        : 04-21-2009
00072> #  Revised     : 04-31-2009; 05-25-2009; 07-22-2009; 08-06-2009; 08-31-2009
00073> #                11-16-2009
00074> #  Modeller    : [Bryan Willcott B.Eng.]
00075> #  Company     : J.F. Sabourin and Associates
00076> #  License #   : 3410370
00077> #*******************************************************************************
00078> #  [BW] April 31, 2009
00079> #  This model is the same as the JFSA summer model with the exception of the
00080> #  storm files used and the CN values have been increased to 95
00081> #*******************************************************************************
00082> #  [BW] May 25, 2009
00083> #  This model has been updated using revised values for Tp. Previous versions
00084> #  of this model used a calculated Tp=0.6Tc.  This model used a calculated
00085> #  Tp=0.67Tc. Manning's n values for the overbanks in the ROUTE CHANNEL
00086> #  commands have been changed to 0.05 for Spring conditions.  Design storms
00087> #  have changed to match those used in the Jock River Model
00088> #*******************************************************************************
00089> #  [BW] July 22, 2009
00090> #  This model has been revised to include "existing" cross section information
00091> #  received from Robinson Consultants.  The Cross section revised in the model
00092> #  is Sec 5.2 (channel receiving flow from "arbuck"). Also, channel and
00093> #  floodplain slopes for ROUTE CHANNEL commands were updated to be equal
00094> #*******************************************************************************
00095> #  [BW] August 6, 2009
00096> #  This model has been revised to include cross section information
00097> #  from Robinson Consultants Engineer's Report July 2003.  The cross
00098> #  section revised in the model is Sec 5.1.  Cross sections Sec 1.03
00099> #  and Sec 5.3 have also been revised
00100> #*******************************************************************************
00101> #  [BW] August 31, 2009
00102> #  Model updated to include the proposed DSEL berm. This affects the geometry
00103> #  of Route Channel Sect 5.2 located on the Arbuckle drain.  Route Channels 5.2
00104> #  and 1.03 have also been revised to reduce the number of values in the
00105> #  x-y matrix
00106> #*******************************************************************************
00107> #  [BW] November 16, 2009
00108> #  Model updated to include revised Tp values subsequent to review of
00109> #  memo received from AECOM on Oct. 2, 2009
00110> #*******************************************************************************
00111> #
00112>   ** END OF RUN :   1
00113>
00114> ********************************************************************************
00115>
00116>
00117>
00118>
00119>
00120>  RUN:COMMAND#
00121>  002:0001----------------------------------------------------------------------
00122>       START
00123>         [TZERO =    .00 hrs on        0]
00124>         [METOUT=   2    (1=imperial, 2=metric output)]
00125>         [NSTORM=   1 ]
00126>         [NRUN  =   2 ]
00127> #*******************************************************************************
00128> #  SWMHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
00129> #*******************************************************************************
00130> #  Project Name: [Richmond FPM]    Project Number: [709]
00131> #  Date        : 04-21-2009
00132> #  Revised     : 04-31-2009; 05-25-2009; 07-22-2009; 08-06-2009; 08-31-2009
00133> #                11-16-2009
00134> #  Modeller    : [Bryan Willcott B.Eng.]
00135> #  Company     : J.F. Sabourin and Associates
00136> #  License #   : 3410370
00137> #*******************************************************************************
00138> #  [BW] April 31, 2009
00139> #  This model is the same as the JFSA summer model with the exception of the
00140> #  storm files used and the CN values have been increased to 95
00141> #*******************************************************************************
00142> #  [BW] May 25, 2009
```

```
00143> #  This model has been updated using revised values for Tp. Previous versions
00144> #  of this model used a calculated Tp=0.6Tc.  This model used a calculated
00145> #  Tp=0.67Tc. Manning's n values for the overbanks in the ROUTE CHANNEL
00146> #  commands have been changed to 0.05 for Spring conditions.  Design storms
00147> #  have changed to match those used in the Jock River Model
00148> #*****************************************************************************
00149> #  [BW] July 22, 2009
00150> #  This model has been revised to include "existing" cross section information
00151> #  received from Robinson Consultants.  The Cross section revised in the model
00152> #  is Sec 5.2 (channel receiving flow from "arbuck"). Also, channel and
00153> #  floodplain slopes for ROUTE CHANNEL commands were updated to be equal
00154> #*****************************************************************************
00155> #  [BW] August 6, 2009
00156> #  This model has been revised to include cross section information
00157> #  from Robinson Consultants Engineer's Report July 2003.  The cross
00158> #  section revised in the model is Sec 5.1.  Cross sections Sec 1.03
00159> #  and Sec 5.3 have also been revised
00160> #*****************************************************************************
00161> #  [BW] August 31, 2009
00162> #  Model updated to include the proposed DSEL berm. This affects the geometry
00163> #  of Route Channel Sect 5.2 located on the Arbuckle drain.  Route Channels 5.2
00164> #  and 1.03 have also been revised to reduce the number of values in the
00165> #  x-y matrix
00166> #*****************************************************************************
00167> #  [BW] November 16, 2009
00168> #  Model updated to include revised Tp values subsequent to review of
00169> #  memo received from AECOM on Oct. 2, 2009
00170> #*****************************************************************************
00171> #
00172>  002:0002--------------------------------------------------------------------------
00173>      READ STORM
00174>       Filename = STORM.001
00175>       Comment  = Model 5 CDA - S+Rain 12hr/day, RTP 2 years, 10 Days.
00176>       [SDT=60.00:SDUR= 240.00:PTOT= 115.69]
00177> #*****************************************************************************
00178> # Van Gaal / Arbuckle Drain
00179> #*****************************************************************************
00180> # DSEL SUBCATCHMENT VG-1 HAS BEEN BROKEN INTO 6 SUB-AREAS (BW)
00181> #*****************************************************************************
00182>  002:0003--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00183>      CALIB NASHYD       01:VG-1A    311.90    2.093 No_date  114:35   99.85 .863
00184>       [CN= 95.0: N= 3.00]
00185>       [Tp= 5.30:DT= 5.00]
00186>  002:0004--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00187>      SAVE HYD           01:VG-1A    311.90    2.093 No_date  114:35   99.85  n/a
00188>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSPRI~1\H-VG-1A.002
00189>       remark:VG-1A
00190> #*****************************************************************************
00191> # Tp FOR VG-1B HAS BEEN REVISED TO REFLECT A HYDRAULIC LENGTH OF 1710 m, A
00192> # LENGTH THAT INCLUDES DISTANCE TO THE VG1-1 CONFLUENCE IN ADDITION TO THE
00193> # LONGEST FLOW PATH WITHIN VG-1B. THIS IS DONE TO SIMULATE CHANNEL ROUTING
00194> #*****************************************************************************
00195>  002:0005--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00196>      CALIB NASHYD       02:VG-1B     24.80     .218 No_date  111:50   99.75 .862
00197>       [CN= 95.0: N= 3.00]
00198>       [Tp= 2.70:DT= 5.00]
00199> #*****************************************************************************
00200> # VG1-1 IS THE SUM OF FLOWS TO THE CONFLUENCE OF NORTHERN MOST WATERCOURSE IN
00201> # OUR AREA OF STUDY WITH THE ROADSIDE DITCH ON GARVIN ROAD
00202> #*****************************************************************************
00203> #
00204>  002:0006--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00205>      ADD HYD            01:VG-1A    311.90    2.093 No_date  114:35   99.85  n/a
00206>                       +  02:VG-1B     24.80     .218 No_date  111:50   99.75  n/a
00207>       [DT= 5.00]  SUM=  03:VG1-1    336.70    2.271 No_date  114:15   99.84  n/a
00208>  002:0007--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00209>      SAVE HYD           03:VG1-1    336.70    2.271 No_date  114:15   99.84  n/a
00210>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSPRI~1\H-VG1-1.002
00211>       remark:VG1-1
00212>  002:0008--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00213>      CALIB NASHYD       04:VG-1D     47.80     .454 No_date  110:40  101.23 .875
00214>       [CN= 95.0: N= 3.00]
00215>       [Tp= 1.80:DT= 5.00]
00216> #*****************************************************************************
00217> # VG1-2 IS THE SUM OF FLOWS AT THE GARVIN ROAD CROSS CULVERT AND
00218> # CONSERVATIVELY INCLUDES THE AREA VG-1D,  WHICH IS LOCATED JUST DOWNSTREAM
00219> # OF THE CULVERT
00220> #*****************************************************************************
00221> #
00222>  002:0009--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00223>      ADD HYD            03:VG1-1    336.70    2.271 No_date  114:15   99.84  n/a
00224>                       +  04:VG-1D     47.80     .454 No_date  110:40  101.23  n/a
00225>       [DT= 5.00]  SUM=  05:VG1-2    384.50    2.592 No_date  113:35  100.01  n/a
00226>  002:0010--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00227>      SAVE HYD           05:VG1-2    384.50    2.592 No_date  113:35  100.01  n/a
00228>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSPRI~1\H-VG1-2.002
00229>       remark:VG1-2
00230>  002:0011--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00231>      ROUTE CHANNEL   -> 05:VG1-2    384.50    2.592 No_date  113:35  100.01  n/a
00232>       [RDT= 5.00] out<- 06:VG1R-2   384.50    2.569 No_date  114:10  100.01  n/a
00233>       [L/S/n=  865./ .150/.035]
00234>       {Vmax=  .429:Dmax=  .657}
00235>  002:0012--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00236>      CALIB NASHYD       07:VG-1C    211.80    1.516 No_date  114:00   99.85 .863
00237>       [CN= 95.0: N= 3.00]
00238>       [Tp= 4.70:DT= 5.00]
00239>  002:0013--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00240>      CALIB NASHYD       08:VG-1E     13.40     .135 No_date  109:05   99.75 .862
00241>       [CN= 95.0: N= 3.00]
00242>       [Tp=  .64:DT= 5.00]
00243> #*****************************************************************************
00244> # VG1-3 IS THE SUM OF FLOWS TO JOY'S ROAD CROSS CULVERT AND CONSERVATIVELY
00245> # INCLUDES THE AREA VG-1E, WHICH IS LOCATED JUST DOWNSTREAM OF THE CULVERT
00246> #*****************************************************************************
00247> #
00248>  002:0014--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00249>      ADD HYD            07:VG-1C    211.80    1.516 No_date  114:00   99.85  n/a
00250>                       +  08:VG-1E     13.40     .135 No_date  109:05   99.75  n/a
00251>       [DT= 5.00]  SUM=  09:VG1-3    225.20    1.567 No_date  113:35   99.84  n/a
00252>  002:0015--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00253>      SAVE HYD           09:VG1-3    225.20    1.567 No_date  113:35   99.84  n/a
00254>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSPRI~1\H-VG1-3.002
00255>       remark:VG1-3
00256>  002:0016--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00257>      ROUTE CHANNEL   -> 09:VG1-3    225.20    1.567 No_date  113:35   99.84  n/a
00258>       [RDT= 5.00] out<- 10:VG1R-3   225.20    1.564 No_date  113:50   99.84  n/a
00259>       [L/S/n=  630./ .200/.035]
00260>       {Vmax=  .484:Dmax=  .462}
00261> #*****************************************************************************
00262> # VG1-4 IS THE SUM OF FLOWS AT THE CONFLUENCE OF THE WATERCOURSE FROM JOY'S
00263> # ROAD WITH THE MAIN DRAIN
00264> #*****************************************************************************
00265> #
00266>  002:0017--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00267>      ADD HYD            06:VG1R-2   384.50    2.569 No_date  114:10  100.01  n/a
00268>                       +  10:VG1R-3   225.20    1.564 No_date  113:50   99.84  n/a
00269>       [DT= 5.00]  SUM=  01:VG1-4    609.70    4.130 No_date  114:05   99.95  n/a
00270>  002:0018--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00271>      SAVE HYD           01:VG1-4    609.70    4.130 No_date  114:05   99.95  n/a
00272>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSPRI~1\H-VG1-4.002
00273>       remark:VG1-4
00274>  002:0019--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00275>      ROUTE CHANNEL   -> 01:VG1-4    609.70    4.130 No_date  114:05   99.95  n/a
00276>       [RDT= 5.00] out<- 02:VG1R-4   609.70    4.111 No_date  114:35   99.95  n/a
00277>       [L/S/n=  485./ .200/.035]
00278>       {Vmax=  .377:Dmax= 1.087}
00279>  002:0020--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00280>      CALIB NASHYD       03:VG-1F    117.70    1.018 No_date  112:10  101.13 .874
00281>       [CN= 95.0: N= 3.00]
00282>       [Tp= 2.90:DT= 5.00]
00283> #*****************************************************************************
00284> # VG1 IS THE SUM OF FLOWS AT THE CONFLUENCE OF THE VAN GAAL WEST MAIN DRAIN
```

```
00285> # WITH VAN GAAL WEST TRIBUTARY
00286> #*************************************************************************
00287> #
00288>  002:0021--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00289>      ADD HYD            02:VG1R-4   609.70    4.111 No_date  114:35   99.95  n/a
00290>                       +  03:VG-1F    117.70    1.018 No_date  112:10  101.13  n/a
00291>       [DT= 5.00]  SUM=  04:VG1      727.40    4.999 No_date  113:55  100.14  n/a
00292>  002:0022--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00293>      SAVE HYD           04:VG1      727.40    4.999 No_date  113:55  100.14  n/a
00294>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSPRI~1\H-VG1.002
00295>       remark:VG1
00296>  002:0023--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00297>      ROUTE CHANNEL   -> 04:VG1      727.40    4.999 No_date  113:55  100.14  n/a
00298>       [RDT= 5.00] out<- 05:VGR2-1   727.40    4.991 No_date  114:00  100.14  n/a
00299>       [L/S/n=  755./ .200/.035]
00300>       {Vmax=  .994:Dmax= 1.092}
00301>  002:0024--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00302>      CALIB NASHYD       06:VG-2      63.10     .608 No_date  110:25  100.94 .872
00303>       [CN= 95.0: N= 3.00]
00304>       [Tp= 1.60:DT= 5.00]
00305>  002:0025--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00306>      ROUTE CHANNEL   -> 06:VG-2      63.10     .608 No_date  110:25  100.94  n/a
00307>       [RDT= 5.00] out<- 07:PerN      63.10     .603 No_date  111:00  100.94  n/a
00308>       [L/S/n=  550./ .200/.035]
00309>       {Vmax=  .313:Dmax=  .613}
00310>  002:0026--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00311>      CALIB NASHYD       08:VG-3      40.60     .392 No_date  110:25  101.23 .875
00312>       [CN= 95.0: N= 3.00]
00313>       [Tp= 1.60:DT= 5.00]
00314>  002:0027--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00315>   *  CALIB STANDHYD     09:VG-4      24.60     .102 No_date  109:20   45.96 .397
00316>       [XIMP=.40:TIMP=.50]
00317>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00318>       [Pervious     area: IAper= 1.50:SLPP=1.50:LGP=  35.:MNP=.250:SCP=   .0]
00319>       [Impervious   area: IAimp=  .80:SLPI= .30:LGI=1000.:MNI=.013:SCI=   .0]
00320>  002:0028--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00321>      ADD HYD            05:VGR2-1   727.40    4.991 No_date  114:00  100.14  n/a
00322>                       +  07:PerN      63.10     .603 No_date  111:00  100.94  n/a
00323>                       +  08:VG-3      40.60     .392 No_date  110:25  101.23  n/a
00324>                       +  09:VG-4      24.60     .102 No_date  109:20   45.96  n/a
00325>       [DT= 5.00]  SUM=  01:perths   855.70    5.788 No_date  113:25   98.69  n/a
00326>  002:0029--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00327>      SAVE HYD           01:perths   855.70    5.788 No_date  113:25   98.69  n/a
00328>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSPRI~1\H-perths.002
00329>       remark:perthst
00330>  002:0030--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00331>      CALIB NASHYD       02:VG-5      34.40     .314 No_date  111:20  100.74 .871
00332>       [CN= 95.0: N= 3.00]
00333>       [Tp= 2.30:DT= 5.00]
00334>  002:0031--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00335>      ROUTE CHANNEL   -> 02:VG-5      34.40     .314 No_date  111:20  100.74  n/a
00336>       [RDT= 5.00] out<- 03:PerS      34.40     .312 No_date  111:50  100.74  n/a
00337>       [L/S/n=  550./ .200/.035]
00338>       {Vmax=  .417:Dmax=  .539}
00339>  002:0032--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00340>      ADD HYD            01:perths   855.70    5.788 No_date  113:25   98.69  n/a
00341>                       +  03:PerS      34.40     .312 No_date  111:50  100.74  n/a
00342>       [DT= 5.00]  SUM=  02:arbuck   890.10    6.078 No_date  113:25   98.77  n/a
00343>  002:0033--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00344>      SAVE HYD           02:arbuck   890.10    6.078 No_date  113:25   98.77  n/a
00345>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSPRI~1\H-arbuck.002
00346>       remark:arbuck
00347>  002:0034--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00348>      ROUTE CHANNEL   -> 02:arbuck   890.10    6.078 No_date  113:25   98.77  n/a
00349>       [RDT= 5.00] out<- 09:VGR2-2   890.10    6.064 No_date  113:35   98.77  n/a
00350>       [L/S/n=  520./ .150/.035]
00351>       {Vmax=  .528:Dmax= 1.197}
00352>  002:0035--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00353>      CALIB NASHYD       01:VG-6      94.20     .791 No_date  112:30  100.84 .872
00354>       [CN= 95.0: N= 3.00]
00355>       [Tp= 3.20:DT= 5.00]
00356>  002:0036--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00357>      ROUTE CHANNEL   -> 01:VG-6      94.20     .791 No_date  112:30  100.84  n/a
00358>       [RDT= 5.00] out<- 02:VG-6      94.20     .742 No_date  114:00  100.84  n/a
00359>       [L/S/n=  600./ .180/.035]
00360>       {Vmax=  .116:Dmax=  .439}
00361>  002:0037--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00362>      SAVE HYD           02:VG-6      94.20     .742 No_date  114:00  100.84  n/a
00363>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSPRI~1\H-VG-6.002
00364>       remark:VG-6
00365>  002:0038--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00366>      CALIB NASHYD       03:VG-7      39.20     .339 No_date  112:10  100.24 .866
00367>       [CN= 95.0: N= 3.00]
00368>       [Tp= 2.90:DT= 5.00]
00369>  002:0039--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00370>      SAVE HYD           03:VG-7      39.20     .339 No_date  112:10  100.24  n/a
00371>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSPRI~1\H-VG-7.002
00372>       remark:VG-7
00373>  002:0040--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00374>      ROUTE CHANNEL   -> 03:VG-7      39.20     .339 No_date  112:10  100.24  n/a
00375>       [RDT= 5.00] out<- 04:VG-7      39.20     .323 No_date  114:05  100.24  n/a
00376>       [L/S/n= 1480./ .200/.035]
00377>       {Vmax=  .334:Dmax=  .541}
00378>  002:0041--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00379>      ADD HYD            02:VG-6      94.20     .742 No_date  114:00  100.84  n/a
00380>                       +  04:VG-7      39.20     .323 No_date  114:05  100.24  n/a
00381>       [DT= 5.00]  SUM=  05:Moore    133.40    1.065 No_date  114:00  100.66  n/a
00382>  002:0042--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00383>      SAVE HYD           05:Moore    133.40    1.065 No_date  114:00  100.66  n/a
00384>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSPRI~1\H-Moore.002
00385>       remark:Moore
00386>  002:0043--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00387>      CALIB NASHYD       05:VG-8      91.80     .853 No_date  111:05  101.13 .874
00388>       [CN= 95.0: N= 3.00]
00389>       [Tp= 2.10:DT= 5.00]
00390>  002:0044--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00391>   *  CALIB STANDHYD     06:VG-9      11.40     .048 No_date  109:00   45.96 .397
00392>       [XIMP=.40:TIMP=.50]
00393>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00394>       [Pervious     area: IAper= 1.50:SLPP=1.50:LGP=  50.:MNP=.250:SCP=   .0]
00395>       [Impervious   area: IAimp=  .80:SLPI= .30:LGI= 530.:MNI=.013:SCI=   .0]
00396>  002:0045--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00397>      ADD HYD            02:VG-6      94.20     .742 No_date  114:00  100.84  n/a
00398>                       +  04:VG-7      39.20     .323 No_date  114:05  100.24  n/a
00399>                       +  05:VG-8      91.80     .853 No_date  111:05  101.13  n/a
00400>                       +  06:VG-9      11.40     .048 No_date  109:00   45.96  n/a
00401>                       +  09:VGR2-2   890.10    6.064 No_date  113:35   98.77  n/a
00402>       [DT= 5.00]  SUM=  01:Fortun  1126.70    7.858 No_date  113:20   98.65  n/a
00403>  002:0046--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00404>      SAVE HYD           01:Fortun  1126.70    7.858 No_date  113:20   98.65  n/a
00405>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSPRI~1\H-Fortun.002
00406>       remark:Fortune
00407>  002:0047--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00408>      ROUTE CHANNEL   -> 01:Fortun  1126.70    7.858 No_date  113:20   98.65  n/a
00409>       [RDT= 5.00] out<- 03:VGR2-3  1126.70    7.844 No_date  113:35   98.65  n/a
00410>       [L/S/n=  750./ .200/.035]
00411>       {Vmax=  .653:Dmax=  .620}
00412>  002:0048--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00413>   *  CALIB STANDHYD     02:VG-10     20.30     .086 No_date  109:05   45.96 .397
00414>       [XIMP=.40:TIMP=.50]
00415>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00416>       [Pervious     area: IAper= 1.50:SLPP=1.50:LGP=  50.:MNP=.250:SCP=   .0]
00417>       [Impervious   area: IAimp=  .80:SLPI= .30:LGI= 560.:MNI=.013:SCI=   .0]
00418>  002:0049--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00419>      ADD HYD            02:VG-10     20.30     .086 No_date  109:05   45.96  n/a
00420>                       +  03:VGR2-3  1126.70    7.844 No_date  113:35   98.65  n/a
00421>       [DT= 5.00]  SUM=  09:JockVG  1147.00    7.883 No_date  113:30   97.72  n/a
00422>  002:0050--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00423>      SAVE HYD           09:JockVG  1147.00    7.883 No_date  113:30   97.72  n/a
00424>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSPRI~1\JockVG.002
00425>       remark:Flow from Van Gaal at Jock River
00426>   ** END OF RUN :   4
```

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00427>
00428> ****************************************************************************
00429>
00430>
00431>
00432>
00433>
00434>  RUN:COMMAND#
00435>  005:0001--------------------------------------------------------------------
00436>      START
00437>       [TZERO =    .00 hrs on        0]
00438>       [METOUT=   2    (1=imperial, 2=metric output)]
00439>       [NSTORM=   1 ]
00440>       [NRUN  =   5 ]
00441> #****************************************************************************
00442> #  SWMHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
00443> #****************************************************************************
00444> #  Project Name: [Richmond FPM]    Project Number: [709]
00445> #  Date        : 04-21-2009
00446> #  Revised     : 04-31-2009; 05-25-2009; 07-22-2009; 08-06-2009; 08-31-2009
00447> #                11-16-2009
00448> #  Modeller    : [Bryan Willcott B.Eng.]
00449> #  Company     : J.F. Sabourin and Associates
00450> #  License #   : 3410370
00451> #****************************************************************************
00452> #  [BW] April 31, 2009
00453> #  This model is the same as the JFSA summer model with the exception of the
00454> #  storm files used and the CN values have been increased to 95
00455> #****************************************************************************
00456> #  [BW] May 25, 2009
00457> #  This model has been updated using revised values for Tp. Previous versions
00458> #  of this model used a calculated Tp=0.6Tc.  This model used a calculated
00459> #  Tp=0.67Tc. Manning's n values for the overbanks in the ROUTE CHANNEL
00460> #  commands have been changed to 0.05 for Spring conditions.  Design storms
00461> #  have changed to match those used in the Jock River Model
00462> #****************************************************************************
00463> #  [BW] July 22, 2009
00464> #  This model has been revised to include "existing" cross section information
00465> #  received from Robinson Consultants.  The Cross section revised in the model
00466> #  is Sec 5.2 (channel receiving flow from "arbuck"). Also, channel and
00467> #  floodplain slopes for ROUTE CHANNEL commands were updated to be equal
00468> #****************************************************************************
00469> #  [BW] August 6, 2009
00470> #  This model has been revised to include cross section information
00471> #  from Robinson Consultants Engineer's Report July 2003.  The cross
00472> #  section revised in the model is Sec 5.1.  Cross sections Sec 1.03
00473> #  and Sec 5.3 have also been revised
00474> #****************************************************************************
00475> #  [BW] August 31, 2009
00476> #  Model updated to include the proposed DSEL berm. This affects the geometry
00477> #  of Route Channel Sect 5.2 located on the Arbuckle drain.  Route Channels 5.2
00478> #  and 1.03 have also been revised to reduce the number of values in the
00479> #  x-y matrix
00480> #****************************************************************************
00481> #  [BW] November 16, 2009
00482> #  Model updated to include revised Tp values subsequent to review of
00483> #  memo received from AECOM on Oct. 2, 2009
00484> #****************************************************************************
00485> #
00486>  005:0002--------------------------------------------------------------------
00487>      READ STORM
00488>       Filename = STORM.001
00489>       Comment  = Model 5 CDA - S+Rain 12hr/day, RTP 5 years, 10 Days.
00490>       [SDT=60.00:SDUR= 240.00:PTOT= 156.28]
00491> #****************************************************************************
00492> # Van Gaal / Arbuckle Drain
00493> #****************************************************************************
00494> # DSEL SUBCATCHMENT VG-1 HAS BEEN BROKEN INTO 6 SUB-AREAS (BW)
00495> #****************************************************************************
00496>  005:0003--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00497>      CALIB NASHYD       01:VG-1A    311.90    2.677 No_date  114:35  140.09 .896
00498>       [CN= 95.0: N= 3.00]
00499>       [Tp= 5.30:DT= 5.00]
00500>  005:0004--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00501>      SAVE HYD           01:VG-1A    311.90    2.677 No_date  114:35  140.09  n/a
00502>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSPRI~1\H-VG-1A.005
00503>       remark:VG-1A
00504> #****************************************************************************
00505> # Tp FOR VG-1B HAS BEEN REVISED TO REFLECT A HYDRAULIC LENGTH OF 1710 m, A
00506> # LENGTH THAT INCLUDES DISTANCE TO THE VG1-1 CONFLUENCE IN ADDITION TO THE
00507> # LONGEST FLOW PATH WITHIN VG-1B. THIS IS DONE TO SIMULATE CHANNEL ROUTING
00508> #****************************************************************************
00509>  005:0005--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00510>      CALIB NASHYD       02:VG-1B     24.80     .279 No_date  111:50  139.99 .896
00511>       [CN= 95.0: N= 3.00]
00512>       [Tp= 2.70:DT= 5.00]
00513> #****************************************************************************
00514> # VG1-1 IS THE SUM OF FLOWS TO THE CONFLUENCE OF NORTHERN MOST WATERCOURSE IN
00515> # OUR AREA OF STUDY WITH THE ROADSIDE DITCH ON GARVIN ROAD
00516> #****************************************************************************
00517> #
00518>  005:0006--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00519>      ADD HYD            01:VG-1A    311.90    2.677 No_date  114:35  140.09  n/a
00520>                       +  02:VG-1B     24.80     .279 No_date  111:50  139.99  n/a
00521>       [DT= 5.00]  SUM=  03:VG1-1    336.70    2.905 No_date  114:15  140.08  n/a
00522>  005:0007--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00523>      SAVE HYD           03:VG1-1    336.70    2.905 No_date  114:15  140.08  n/a
00524>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSPRI~1\H-VG1-1.005
00525>       remark:VG1-1
00526>  005:0008--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00527>      CALIB NASHYD       04:VG-1D     47.80     .580 No_date  110:40  141.48 .905
00528>       [CN= 95.0: N= 3.00]
00529>       [Tp= 1.80:DT= 5.00]
00530> #****************************************************************************
00531> # VG1-2 IS THE SUM OF FLOWS AT THE GARVIN ROAD CROSS CULVERT AND
00532> # CONSERVATIVELY INCLUDES THE AREA VG-1D,  WHICH IS LOCATED JUST DOWNSTREAM
00533> # OF THE CULVERT
00534> #****************************************************************************
00535> #
00536>  005:0009--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00537>      ADD HYD            03:VG1-1    336.70    2.905 No_date  114:15  140.08  n/a
00538>                       +  04:VG-1D     47.80     .580 No_date  110:40  141.48  n/a
00539>       [DT= 5.00]  SUM=  05:VG1-2    384.50    3.315 No_date  113:35  140.25  n/a
00540>  005:0010--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00541>      SAVE HYD           05:VG1-2    384.50    3.315 No_date  113:35  140.25  n/a
00542>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSPRI~1\H-VG1-2.005
00543>       remark:VG1-2
00544>  005:0011--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00545>      ROUTE CHANNEL   -> 05:VG1-2    384.50    3.315 No_date  113:35  140.25  n/a
00546>       [RDT= 5.00] out<- 06:VG1R-2   384.50    3.253 No_date  114:45  140.25  n/a
00547>       [L/S/n=  865./ .150/.035]
00548>       {Vmax=  .366:Dmax=  .725}
00549>  005:0012--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00550>      CALIB NASHYD       07:VG-1C    211.80    1.939 No_date  114:00  140.09 .896
00551>       [CN= 95.0: N= 3.00]
00552>       [Tp= 4.70:DT= 5.00]
00553>  005:0013--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00554>      CALIB NASHYD       08:VG-1E     13.40     .173 No_date  109:05  139.99 .896
00555>       [CN= 95.0: N= 3.00]
00556>       [Tp=  .64:DT= 5.00]
00557> #****************************************************************************
00558> # VG1-3 IS THE SUM OF FLOWS TO JOY'S ROAD CROSS CULVERT AND CONSERVATIVELY
00559> # INCLUDES THE AREA VG-1E, WHICH IS LOCATED JUST DOWNSTREAM OF THE CULVERT
00560> #****************************************************************************
00561> #
00562>  005:0014--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00563>      ADD HYD            07:VG-1C    211.80    1.939 No_date  114:00  140.09  n/a
00564>                       +  08:VG-1E     13.40     .173 No_date  109:05  139.99  n/a
00565>       [DT= 5.00]  SUM=  09:VG1-3    225.20    2.004 No_date  113:30  140.08  n/a
00566>  005:0015--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00567>      SAVE HYD           09:VG1-3    225.20    2.004 No_date  113:30  140.08  n/a
00568>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSPRI~1\H-VG1-3.005
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      remark:VG1-3
 005:0016---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     ROUTE CHANNEL   -> 09:VG1-3    225.20    2.004 No_date  113:30  140.08  n/a
      [RDT= 5.00] out<- 10:VG1R-3   225.20    2.000 No_date  113:50  140.08  n/a
      [L/S/n=  630./ .200/.035]
      {Vmax=  .524:Dmax=  .530}
#*******************************************************************************
# VG1-4 IS THE SUM OF FLOWS AT THE CONFLUENCE OF THE WATERCOURSE FROM JOY'S
# ROAD WITH THE MAIN DRAIN
#*******************************************************************************
#
 005:0017---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     ADD HYD           06:VG1R-2   384.50    3.253 No_date  114:45  140.25  n/a
                   +  10:VG1R-3   225.20    2.000 No_date  113:50  140.08  n/a
      [DT= 5.00]  SUM=  01:VG1-4    609.70    5.243 No_date  114:15  140.19  n/a
 005:0018---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     SAVE HYD          01:VG1-4    609.70    5.243 No_date  114:15  140.19  n/a
      fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSPRI~1\H-VG1-4.005
      remark:VG1-4
 005:0019---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     ROUTE CHANNEL   -> 01:VG1-4    609.70    5.243 No_date  114:15  140.19  n/a
      [RDT= 5.00] out<- 02:VG1R-4   609.70    5.213 No_date  114:45  140.19  n/a
      [L/S/n=  485./ .200/.035]
      {Vmax=  .350:Dmax= 1.123}
 005:0020---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     CALIB NASHYD       03:VG-1F    117.70    1.300 No_date  112:05  141.38 .905
      [CN= 95.0: N= 3.00]
      [Tp= 2.90:DT= 5.00]
#*******************************************************************************
# VG1 IS THE SUM OF FLOWS AT THE CONFLUENCE OF THE VAN GAAL WEST MAIN DRAIN
# WITH VAN GAAL WEST TRIBUTARY
#*******************************************************************************
#
 005:0021---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     ADD HYD           02:VG1R-4   609.70    5.213 No_date  114:45  140.19  n/a
                   +  03:VG-1F    117.70    1.300 No_date  112:05  141.38  n/a
      [DT= 5.00]  SUM=  04:VG1      727.40    6.318 No_date  114:00  140.38  n/a
 005:0022---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     SAVE HYD          04:VG1      727.40    6.318 No_date  114:00  140.38  n/a
      fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSPRI~1\H-VG1.005
      remark:VG1
 005:0023---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     ROUTE CHANNEL   -> 04:VG1      727.40    6.318 No_date  114:00  140.38  n/a
      [RDT= 5.00] out<- 05:VGR2-1   727.40    6.311 No_date  114:20  140.38  n/a
      [L/S/n=  755./ .200/.035]
      {Vmax= 1.063:Dmax= 1.219}
 005:0024---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     CALIB NASHYD       06:VG-2      63.10     .776 No_date  110:20  141.18 .903
      [CN= 95.0: N= 3.00]
      [Tp= 1.60:DT= 5.00]
 005:0025---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     ROUTE CHANNEL   -> 06:VG-2      63.10     .776 No_date  110:20  141.18  n/a
      [RDT= 5.00] out<- 07:PerN      63.10     .768 No_date  111:00  141.18  n/a
      [L/S/n=  550./ .200/.035]
      {Vmax=  .299:Dmax=  .639}
 005:0026---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     CALIB NASHYD       08:VG-3      40.60     .500 No_date  110:20  141.48 .905
      [CN= 95.0: N= 3.00]
      [Tp= 1.60:DT= 5.00]
 005:0027---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
  *  CALIB STANDHYD     09:VG-4      24.60     .129 No_date  109:15   62.19 .398
      [XIMP=.40:TIMP=.50]
      [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
      [Pervious     area: IAper= 1.50:SLPP=1.50:LGP=  35.:MNP=.250:SCP=   .0]
      [Impervious   area: IAimp=  .80:SLPI= .30:LGI=1000.:MNI=.013:SCI=   .0]
 005:0028---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     ADD HYD           05:VGR2-1   727.40    6.311 No_date  114:20  140.38  n/a
                    +  07:PerN      63.10     .768 No_date  111:00  141.18  n/a
                    +  08:VG-3      40.60     .500 No_date  110:20  141.48  n/a
                    +  09:VG-4      24.60     .129 No_date  109:15   62.19  n/a
      [DT= 5.00]  SUM=  01:perths   855.70    7.316 No_date  113:15  138.24  n/a
 005:0029---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     SAVE HYD          01:perths   855.70    7.316 No_date  113:15  138.24  n/a
      fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSPRI~1\H-perths.005
      remark:perthst
 005:0030---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     CALIB NASHYD       02:VG-5      34.40     .401 No_date  111:20  140.98 .902
      [CN= 95.0: N= 3.00]
      [Tp= 2.30:DT= 5.00]
 005:0031---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     ROUTE CHANNEL   -> 02:VG-5      34.40     .401 No_date  111:20  140.98  n/a
      [RDT= 5.00] out<- 03:PerS      34.40     .398 No_date  111:55  140.98  n/a
      [L/S/n=  550./ .200/.035]
      {Vmax=  .371:Dmax=  .567}
 005:0032---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     ADD HYD           01:perths   855.70    7.316 No_date  113:15  138.24  n/a
                    +  03:PerS      34.40     .398 No_date  111:55  140.98  n/a
      [DT= 5.00]  SUM=  02:arbuck   890.10    7.694 No_date  113:15  138.35  n/a
 005:0033---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     SAVE HYD          02:arbuck   890.10    7.694 No_date  113:15  138.35  n/a
      fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSPRI~1\H-arbuck.005
      remark:arbuck
 005:0034---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     ROUTE CHANNEL   -> 02:arbuck   890.10    7.694 No_date  113:15  138.35  n/a
      [RDT= 5.00] out<- 09:VGR2-2   890.10    7.673 No_date  113:30  138.35  n/a
      [L/S/n=  520./ .150/.035]
      {Vmax=  .516:Dmax= 1.261}
 005:0035---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     CALIB NASHYD       01:VG-6      94.20    1.010 No_date  112:25  141.08 .903
      [CN= 95.0: N= 3.00]
      [Tp= 3.20:DT= 5.00]
 005:0036---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     ROUTE CHANNEL   -> 01:VG-6      94.20    1.010 No_date  112:25  141.08  n/a
      [RDT= 5.00] out<- 02:VG-6      94.20     .954 No_date  113:55  141.08  n/a
      [L/S/n=  600./ .180/.035]
      {Vmax=  .114:Dmax=  .444}
 005:0037---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     SAVE HYD          02:VG-6      94.20     .954 No_date  113:55  141.08  n/a
      fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSPRI~1\H-VG-6.005
      remark:VG-6
 005:0038---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     CALIB NASHYD       03:VG-7      39.20     .433 No_date  112:05  140.48 .899
      [CN= 95.0: N= 3.00]
      [Tp= 2.90:DT= 5.00]
 005:0039---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     SAVE HYD          03:VG-7      39.20     .433 No_date  112:05  140.48  n/a
      fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSPRI~1\H-VG-7.005
      remark:VG-7
 005:0040---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     ROUTE CHANNEL   -> 03:VG-7      39.20     .433 No_date  112:05  140.48  n/a
      [RDT= 5.00] out<- 04:VG-7      39.20     .408 No_date  114:05  140.48  n/a
      [L/S/n= 1480./ .200/.035]
      {Vmax=  .278:Dmax=  .560}
 005:0041---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     ADD HYD           02:VG-6      94.20     .954 No_date  113:55  141.08  n/a
                    +  04:VG-7      39.20     .408 No_date  114:05  140.48  n/a
      [DT= 5.00]  SUM=  05:Moore    133.40    1.361 No_date  114:00  140.91  n/a
 005:0042---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     SAVE HYD          05:Moore    133.40    1.361 No_date  114:00  140.91  n/a
      fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSPRI~1\H-Moore.005
      remark:Moore
 005:0043---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
     CALIB NASHYD       05:VG-8      91.80    1.089 No_date  111:05  141.38 .905
      [CN= 95.0: N= 3.00]
      [Tp= 2.10:DT= 5.00]
 005:0044---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
  *  CALIB STANDHYD     06:VG-9      11.40     .060 No_date  109:00   62.19 .398
      [XIMP=.40:TIMP=.50]
      [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
      [Pervious     area: IAper= 1.50:SLPP=1.50:LGP=  50.:MNP=.250:SCP=   .0]
      [Impervious   area: IAimp=  .80:SLPI= .30:LGI= 530.:MNI=.013:SCI=   .0]
 005:0045---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
```

```
00711>      ADD HYD            02:VG-6      94.20     .954 No_date  113:55  141.08  n/a
00712>                       +  04:VG-7      39.20     .408 No_date  114:05  140.48  n/a
00713>                       +  05:VG-8      91.80    1.089 No_date  111:05  141.38  n/a
00714>                       +  06:VG-9      11.40     .060 No_date  109:00   62.19  n/a
00715>                       +  09:VGR2-2   890.10    7.673 No_date  113:30  138.35  n/a
00716>       [DT= 5.00]  SUM=  01:Fortun  1126.70    9.972 No_date  113:20  138.13  n/a
00717>  005:0046---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00718>      SAVE HYD           01:Fortun  1126.70    9.972 No_date  113:20  138.13  n/a
00719>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSPRI~1\H-Fortun.005
00720>       remark:Fortune
00721>  005:0047---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00722>      ROUTE CHANNEL   -> 01:Fortun  1126.70    9.972 No_date  113:20  138.13  n/a
00723>       [RDT= 5.00] out<- 03:VGR2-3  1126.70    9.958 No_date  113:25  138.13  n/a
00724>       [L/S/n=  750./ .200/.035]
00725>       {Vmax=  .696:Dmax=  .688}
00726>  005:0048---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00727>   *  CALIB STANDHYD     02:VG-10     20.30     .107 No_date  109:00   62.19 .398
00728>       [XIMP=.40:TIMP=.50]
00729>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00730>       [Pervious     area: IAper= 1.50:SLPP=1.50:LGP=  50.:MNP=.250:SCP=   .0]
00731>       [Impervious   area: IAimp=  .80:SLPI= .30:LGI= 560.:MNI=.013:SCI=   .0]
00732>  005:0049---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00733>      ADD HYD            02:VG-10     20.30     .107 No_date  109:00   62.19  n/a
00734>                       +  03:VGR2-3  1126.70    9.958 No_date  113:25  138.13  n/a
00735>       [DT= 5.00]  SUM=  09:JockVG  1147.00   10.007 No_date  113:25  136.78  n/a
00736>  005:0050---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00737>      SAVE HYD           09:JockVG  1147.00   10.007 No_date  113:25  136.78  n/a
00738>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSPRI~1\JockVG.005
00739>       remark:Flow from Van Gaal at Jock River
00740>    ** END OF RUN :  99
00741>
00742> ****************************************************************************
00743>
00744>
00745>
00746>
00747>
00748>  RUN:COMMAND#
00749>  100:0001----------------------------------------------------------------------
00750>      START
00751>       [TZERO =    .00 hrs on        0]
00752>       [METOUT=   2    (1=imperial, 2=metric output)]
00753>       [NSTORM=   1 ]
00754>       [NRUN  = 100 ]
00755> #*****************************************************************************
00756> #  SWMHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
00757> #*****************************************************************************
00758> #  Project Name: [Richmond FPM]    Project Number: [709]
00759> #  Date        : 04-21-2009
00760> #  Revised     : 04-31-2009; 05-25-2009; 07-22-2009; 08-06-2009; 08-31-2009
00761> #                11-16-2009
00762> #  Modeller    : [Bryan Willcott B.Eng.]
00763> #  Company     : J.F. Sabourin and Associates
00764> #  License #   : 3410370
00765> #*****************************************************************************
00766> #  [BW] April 31, 2009
00767> #  This model is the same as the JFSA summer model with the exception of the
00768> #  storm files used and the CN values have been increased to 95
00769> #*****************************************************************************
00770> #  [BW] May 25, 2009
00771> #  This model has been updated using revised values for Tp. Previous versions
00772> #  of this model used a calculated Tp=0.6Tc.  This model used a calculated
00773> #  Tp=0.67Tc. Manning's n values for the overbanks in the ROUTE CHANNEL
00774> #  commands have been changed to 0.05 for Spring conditions.  Design storms
00775> #  have changed to match those used in the Jock River Model
00776> #*****************************************************************************
00777> #  [BW] July 22, 2009
00778> #  This model has been revised to include "existing" cross section information
00779> #  received from Robinson Consultants.  The Cross section revised in the model
00780> #  is Sec 5.2 (channel receiving flow from "arbuck"). Also, channel and
00781> #  floodplain slopes for ROUTE CHANNEL commands were updated to be equal
00782> #*****************************************************************************
00783> #  [BW] August 6, 2009
00784> #  This model has been revised to include cross section information
00785> #  from Robinson Consultants Engineer's Report July 2003.  The cross
00786> #  section revised in the model is Sec 5.1.  Cross sections Sec 1.03
00787> #  and Sec 5.3 have also been revised
00788> #*****************************************************************************
00789> #  [BW] August 31, 2009
00790> #  Model updated to include the proposed DSEL berm. This affects the geometry
00791> #  of Route Channel Sect 5.2 located on the Arbuckle drain.  Route Channels 5.2
00792> #  and 1.03 have also been revised to reduce the number of values in the
00793> #  x-y matrix
00794> #*****************************************************************************
00795> #  [BW] November 16, 2009
00796> #  Model updated to include revised Tp values subsequent to review of
00797> #  memo received from AECOM on Oct. 2, 2009
00798> #*****************************************************************************
00799> #
00800>  100:0002----------------------------------------------------------------------
00801>      READ STORM
00802>       Filename = STORM.001
00803>       Comment  = Model 5 CDA - S+Rain 12hr/day, RTP 100 years, 10 Days.
00804>       [SDT=60.00:SDUR= 240.00:PTOT= 267.43]
00805> #*****************************************************************************
00806> # Van Gaal / Arbuckle Drain
00807> #*****************************************************************************
00808> # DSEL SUBCATCHMENT VG-1 HAS BEEN BROKEN INTO 6 SUB-AREAS (BW)
00809> #*****************************************************************************
00810>  100:0003---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00811>      CALIB NASHYD       01:VG-1A    311.90    4.228 No_date  114:30  250.81 .938
00812>       [CN= 95.0: N= 3.00]
00813>       [Tp= 5.30:DT= 5.00]
00814>  100:0004---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00815>      SAVE HYD           01:VG-1A    311.90    4.228 No_date  114:30  250.81  n/a
00816>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSPRI~1\H-VG-1A.100
00817>       remark:VG-1A
00818> #*****************************************************************************
00819> # Tp FOR VG-1B HAS BEEN REVISED TO REFLECT A HYDRAULIC LENGTH OF 1710 m, A
00820> # LENGTH THAT INCLUDES DISTANCE TO THE VG1-1 CONFLUENCE IN ADDITION TO THE
00821> # LONGEST FLOW PATH WITHIN VG-1B. THIS IS DONE TO SIMULATE CHANNEL ROUTING
00822> #*****************************************************************************
00823>  100:0005---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00824>      CALIB NASHYD       02:VG-1B     24.80     .440 No_date  111:50  250.71 .937
00825>       [CN= 95.0: N= 3.00]
00826>       [Tp= 2.70:DT= 5.00]
00827> #*****************************************************************************
00828> # VG1-1 IS THE SUM OF FLOWS TO THE CONFLUENCE OF NORTHERN MOST WATERCOURSE IN
00829> # OUR AREA OF STUDY WITH THE ROADSIDE DITCH ON GARVIN ROAD
00830> #*****************************************************************************
00831> #
00832>  100:0006---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00833>      ADD HYD            01:VG-1A    311.90    4.228 No_date  114:30  250.81  n/a
00834>                       +  02:VG-1B     24.80     .440 No_date  111:50  250.71  n/a
00835>       [DT= 5.00]  SUM=  03:VG1-1    336.70    4.588 No_date  114:15  250.80  n/a
00836>  100:0007---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00837>      SAVE HYD           03:VG1-1    336.70    4.588 No_date  114:15  250.80  n/a
00838>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSPRI~1\H-VG1-1.100
00839>       remark:VG1-1
00840>  100:0008---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00841>      CALIB NASHYD       04:VG-1D     47.80     .915 No_date  110:35  252.21 .943
00842>       [CN= 95.0: N= 3.00]
00843>       [Tp= 1.80:DT= 5.00]
00844> #*****************************************************************************
00845> # VG1-2 IS THE SUM OF FLOWS AT THE GARVIN ROAD CROSS CULVERT AND
00846> # CONSERVATIVELY INCLUDES THE AREA VG-1D,  WHICH IS LOCATED JUST DOWNSTREAM
00847> # OF THE CULVERT
00848> #*****************************************************************************
00849> #
00850>  100:0009---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00851>      ADD HYD            03:VG1-1    336.70    4.588 No_date  114:15  250.80  n/a
00852>                       +  04:VG-1D     47.80     .915 No_date  110:35  252.21  n/a
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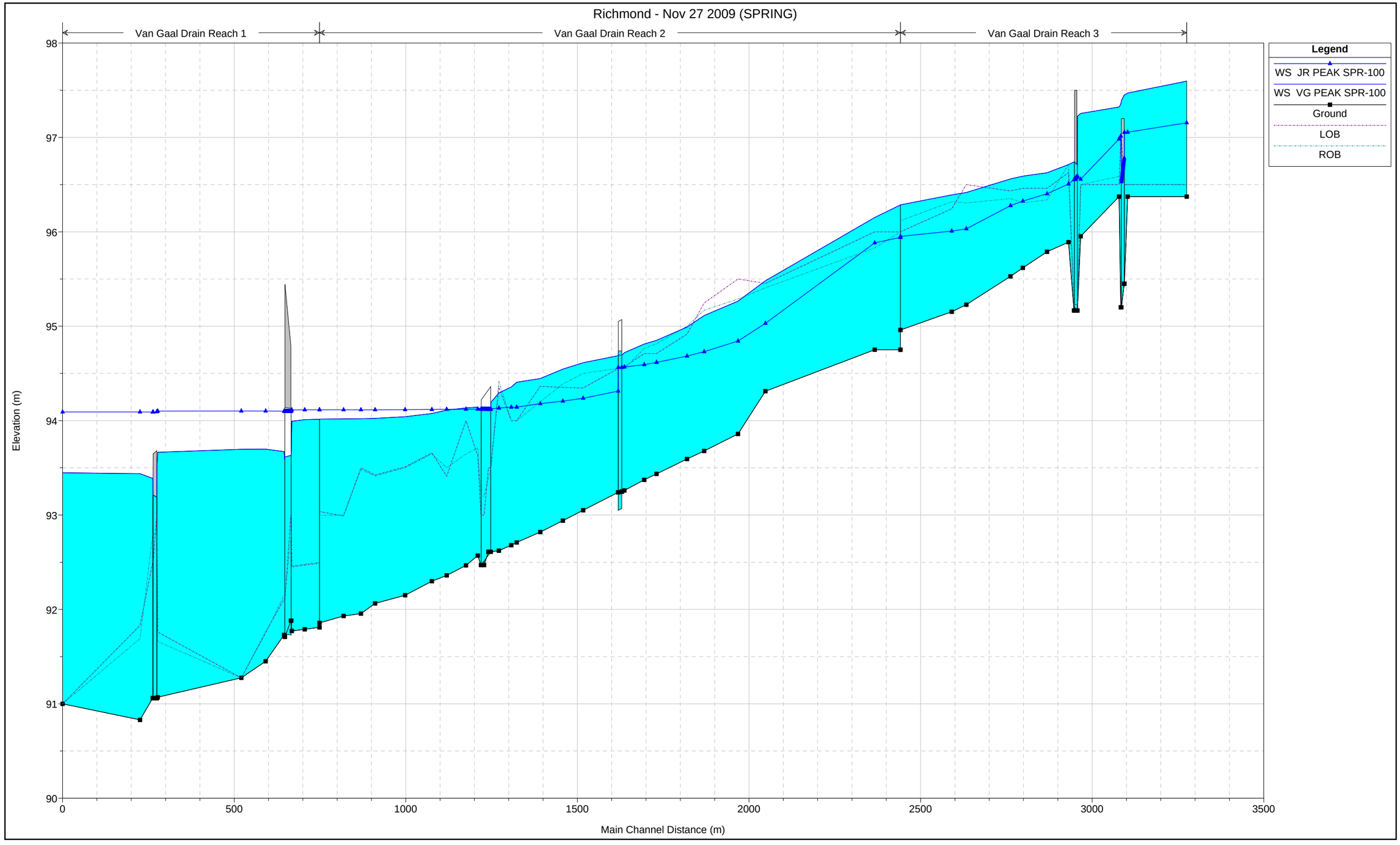
```
00853>       [DT= 5.00]  SUM=  05:VG1-2    384.50    5.235 No_date  113:30  250.98  n/a
00854>  100:0010--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00855>      SAVE HYD           05:VG1-2    384.50    5.235 No_date  113:30  250.98  n/a
00856>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSPRI~1\H-VG1-2.100
00857>       remark:VG1-2
00858>  100:0011--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00859>      ROUTE CHANNEL   -> 05:VG1-2    384.50    5.235 No_date  113:30  250.98  n/a
00860>       [RDT= 5.00] out<- 06:VG1R-2   384.50    5.162 No_date  114:10  250.98  n/a
00861>       [L/S/n=  865./ .150/.035]
00862>       {Vmax=  .339:Dmax=  .802}
00863>  100:0012--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00864>      CALIB NASHYD       07:VG-1C    211.80    3.062 No_date  114:00  250.81 .938
00865>       [CN= 95.0: N= 3.00]
00866>       [Tp= 4.70:DT= 5.00]
00867>  100:0013--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00868>      CALIB NASHYD       08:VG-1E     13.40     .272 No_date  109:05  250.71 .937
00869>       [CN= 95.0: N= 3.00]
00870>       [Tp=  .64:DT= 5.00]
00871> #*******************************************************************************
00872> # VG1-3 IS THE SUM OF FLOWS TO JOY'S ROAD CROSS CULVERT AND CONSERVATIVELY
00873> # INCLUDES THE AREA VG-1E, WHICH IS LOCATED JUST DOWNSTREAM OF THE CULVERT
00874> #*******************************************************************************
00875> #
00876>  100:0014--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00877>      ADD HYD            07:VG-1C    211.80    3.062 No_date  114:00  250.81  n/a
00878>                       +  08:VG-1E     13.40     .272 No_date  109:05  250.71  n/a
00879>       [DT= 5.00]  SUM=  09:VG1-3    225.20    3.166 No_date  113:30  250.81  n/a
00880>  100:0015--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00881>      SAVE HYD           09:VG1-3    225.20    3.166 No_date  113:30  250.81  n/a
00882>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSPRI~1\H-VG1-3.100
00883>       remark:VG1-3
00884>  100:0016--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00885>      ROUTE CHANNEL   -> 09:VG1-3    225.20    3.166 No_date  113:30  250.81  n/a
00886>       [RDT= 5.00] out<- 10:VG1R-3   225.20    3.161 No_date  113:45  250.81  n/a
00887>       [L/S/n=  630./ .200/.035]
00888>       {Vmax=  .606:Dmax=  .678}
00889> #*******************************************************************************
00890> # VG1-4 IS THE SUM OF FLOWS AT THE CONFLUENCE OF THE WATERCOURSE FROM JOY'S
00891> # ROAD WITH THE MAIN DRAIN
00892> #*******************************************************************************
00893> #
00894>  100:0017--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00895>      ADD HYD            06:VG1R-2   384.50    5.162 No_date  114:10  250.98  n/a
00896>                       +  10:VG1R-3   225.20    3.161 No_date  113:45  250.81  n/a
00897>       [DT= 5.00]  SUM=  01:VG1-4    609.70    8.316 No_date  114:05  250.91  n/a
00898>  100:0018--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00899>      SAVE HYD           01:VG1-4    609.70    8.316 No_date  114:05  250.91  n/a
00900>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSPRI~1\H-VG1-4.100
00901>       remark:VG1-4
00902>  100:0019--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00903>      ROUTE CHANNEL   -> 01:VG1-4    609.70    8.316 No_date  114:05  250.91  n/a
00904>       [RDT= 5.00] out<- 02:VG1R-4   609.70    8.280 No_date  114:30  250.91  n/a
00905>       [L/S/n=  485./ .200/.035]
00906>       {Vmax=  .326:Dmax= 1.188}
00907>  100:0020--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00908>      CALIB NASHYD       03:VG-1F    117.70    2.050 No_date  112:05  252.11 .943
00909>       [CN= 95.0: N= 3.00]
00910>       [Tp= 2.90:DT= 5.00]
00911> #*******************************************************************************
00912> # VG1 IS THE SUM OF FLOWS AT THE CONFLUENCE OF THE VAN GAAL WEST MAIN DRAIN
00913> # WITH VAN GAAL WEST TRIBUTARY
00914> #*******************************************************************************
00915> #
00916>  100:0021--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00917>      ADD HYD            02:VG1R-4   609.70    8.280 No_date  114:30  250.91  n/a
00918>                       +  03:VG-1F    117.70    2.050 No_date  112:05  252.11  n/a
00919>       [DT= 5.00]  SUM=  04:VG1      727.40   10.080 No_date  113:55  251.11  n/a
00920>  100:0022--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00921>      SAVE HYD           04:VG1      727.40   10.080 No_date  113:55  251.11  n/a
00922>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSPRI~1\H-VG1.100
00923>       remark:VG1
00924>  100:0023--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00925>      ROUTE CHANNEL   -> 04:VG1      727.40   10.080 No_date  113:55  251.11  n/a
00926>       [RDT= 5.00] out<- 05:VGR2-1   727.40   10.070 No_date  114:05  251.11  n/a
00927>       [L/S/n=  755./ .200/.035]
00928>       {Vmax= 1.108:Dmax= 1.485}
00929>  100:0024--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00930>      CALIB NASHYD       06:VG-2      63.10    1.225 No_date  110:20  251.91 .942
00931>       [CN= 95.0: N= 3.00]
00932>       [Tp= 1.60:DT= 5.00]
00933>  100:0025--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00934>      ROUTE CHANNEL   -> 06:VG-2      63.10    1.225 No_date  110:20  251.91  n/a
00935>       [RDT= 5.00] out<- 07:PerN      63.10    1.214 No_date  110:50  251.91  n/a
00936>       [L/S/n=  550./ .200/.035]
00937>       {Vmax=  .291:Dmax=  .688}
00938>  100:0026--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00939>      CALIB NASHYD       08:VG-3      40.60     .788 No_date  110:20  252.21 .943
00940>       [CN= 95.0: N= 3.00]
00941>       [Tp= 1.60:DT= 5.00]
00942>  100:0027--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00943>   *  CALIB STANDHYD     09:VG-4      24.60     .201 No_date  109:05  106.65 .399
00944>       [XIMP=.40:TIMP=.50]
00945>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00946>       [Pervious     area: IAper= 1.50:SLPP=1.50:LGP=  35.:MNP=.250:SCP=   .0]
00947>       [Impervious   area: IAimp=  .80:SLPI= .30:LGI=1000.:MNI=.013:SCI=   .0]
00948>  100:0028--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00949>      ADD HYD            05:VGR2-1   727.40   10.070 No_date  114:05  251.11  n/a
00950>                       +  07:PerN      63.10    1.214 No_date  110:50  251.91  n/a
00951>                       +  08:VG-3      40.60     .788 No_date  110:20  252.21  n/a
00952>                       +  09:VG-4      24.60     .201 No_date  109:05  106.65  n/a
00953>       [DT= 5.00]  SUM=  01:perths   855.70   11.619 No_date  113:25  247.07  n/a
00954>  100:0029--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00955>      SAVE HYD           01:perths   855.70   11.619 No_date  113:25  247.07  n/a
00956>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSPRI~1\H-perths.100
00957>       remark:perthst
00958>  100:0030--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00959>      CALIB NASHYD       02:VG-5      34.40     .633 No_date  111:20  251.71 .941
00960>       [CN= 95.0: N= 3.00]
00961>       [Tp= 2.30:DT= 5.00]
00962>  100:0031--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00963>      ROUTE CHANNEL   -> 02:VG-5      34.40     .633 No_date  111:20  251.71  n/a
00964>       [RDT= 5.00] out<- 03:PerS      34.40     .627 No_date  111:50  251.71  n/a
00965>       [L/S/n=  550./ .200/.035]
00966>       {Vmax=  .311:Dmax=  .616}
00967>  100:0032--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00968>      ADD HYD            01:perths   855.70   11.619 No_date  113:25  247.07  n/a
00969>                       +  03:PerS      34.40     .627 No_date  111:50  251.71  n/a
00970>       [DT= 5.00]  SUM=  02:arbuck   890.10   12.204 No_date  113:25  247.25  n/a
00971>  100:0033--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00972>      SAVE HYD           02:arbuck   890.10   12.204 No_date  113:25  247.25  n/a
00973>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSPRI~1\H-arbuck.100
00974>       remark:arbuck
00975>  100:0034--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00976>      ROUTE CHANNEL   -> 02:arbuck   890.10   12.204 No_date  113:25  247.25  n/a
00977>       [RDT= 5.00] out<- 09:VGR2-2   890.10   12.157 No_date  113:40  247.25  n/a
00978>       [L/S/n=  520./ .150/.035]
00979>       {Vmax=  .489:Dmax= 1.408}
00980>  100:0035--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00981>      CALIB NASHYD       01:VG-6      94.20    1.594 No_date  112:25  251.81 .942
00982>       [CN= 95.0: N= 3.00]
00983>       [Tp= 3.20:DT= 5.00]
00984>  100:0036--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00985>      ROUTE CHANNEL   -> 01:VG-6      94.20    1.594 No_date  112:25  251.81  n/a
00986>       [RDT= 5.00] out<- 02:VG-6      94.20    1.504 No_date  113:55  251.81  n/a
00987>       [L/S/n=  600./ .180/.035]
00988>       {Vmax=  .110:Dmax=  .459}
00989>  100:0037--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00990>      SAVE HYD           02:VG-6      94.20    1.504 No_date  113:55  251.81  n/a
00991>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSPRI~1\H-VG-6.100
00992>       remark:VG-6
00993>  100:0038--------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00994>      CALIB NASHYD       03:VG-7      39.20     .683 No_date  112:05  251.21 .939
```

```
00995>       [CN= 95.0: N= 3.00]
00996>       [Tp= 2.90:DT= 5.00]
00997>  100:0039---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
00998>      SAVE HYD           03:VG-7      39.20     .683 No_date  112:05  251.21  n/a
00999>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSPRI~1\H-VG-7.100
01000>       remark:VG-7
01001>  100:0040---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01002>      ROUTE CHANNEL   -> 03:VG-7      39.20     .683 No_date  112:05  251.21  n/a
01003>       [RDT= 5.00] out<- 04:VG-7      39.20     .628 No_date  113:55  251.21  n/a
01004>       [L/S/n= 1480./ .200/.035]
01005>       {Vmax=  .232:Dmax=  .594}
01006>  100:0041---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01007>      ADD HYD            02:VG-6      94.20    1.504 No_date  113:55  251.81  n/a
01008>                       +  04:VG-7      39.20     .628 No_date  113:55  251.21  n/a
01009>       [DT= 5.00]  SUM=  05:Moore    133.40    2.132 No_date  113:55  251.63  n/a
01010>  100:0042---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01011>      SAVE HYD           05:Moore    133.40    2.132 No_date  113:55  251.63  n/a
01012>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSPRI~1\H-Moore.100
01013>       remark:Moore
01014>  100:0043---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01015>      CALIB NASHYD       05:VG-8      91.80    1.717 No_date  111:05  252.11 .943
01016>       [CN= 95.0: N= 3.00]
01017>       [Tp= 2.10:DT= 5.00]
01018>  100:0044---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01019>   *  CALIB STANDHYD     06:VG-9      11.40     .094 No_date  109:00  106.65 .399
01020>       [XIMP=.40:TIMP=.50]
01021>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01022>       [Pervious     area: IAper= 1.50:SLPP=1.50:LGP=  50.:MNP=.250:SCP=   .0]
01023>       [Impervious   area: IAimp=  .80:SLPI= .30:LGI= 530.:MNI=.013:SCI=   .0]
01024>  100:0045---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01025>      ADD HYD            02:VG-6      94.20    1.504 No_date  113:55  251.81  n/a
01026>                       +  04:VG-7      39.20     .628 No_date  113:55  251.21  n/a
01027>                       +  05:VG-8      91.80    1.717 No_date  111:05  252.11  n/a
01028>                       +  06:VG-9      11.40     .094 No_date  109:00  106.65  n/a
01029>                       +  09:VGR2-2   890.10   12.157 No_date  113:40  247.25  n/a
01030>       [DT= 5.00]  SUM=  01:Fortun  1126.70   15.739 No_date  113:25  246.74  n/a
01031>  100:0046---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01032>      SAVE HYD           01:Fortun  1126.70   15.739 No_date  113:25  246.74  n/a
01033>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSPRI~1\H-Fortun.100
01034>       remark:Fortune
01035>  100:0047---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01036>      ROUTE CHANNEL   -> 01:Fortun  1126.70   15.739 No_date  113:25  246.74  n/a
01037>       [RDT= 5.00] out<- 03:VGR2-3  1126.70   15.714 No_date  113:35  246.74  n/a
01038>       [L/S/n=  750./ .200/.035]
01039>       {Vmax=  .787:Dmax=  .838}
01040>  100:0048---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01041>   *  CALIB STANDHYD     02:VG-10     20.30     .167 No_date  109:00  106.65 .399
01042>       [XIMP=.40:TIMP=.50]
01043>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01044>       [Pervious     area: IAper= 1.50:SLPP=1.50:LGP=  50.:MNP=.250:SCP=   .0]
01045>       [Impervious   area: IAimp=  .80:SLPI= .30:LGI= 560.:MNI=.013:SCI=   .0]
01046>  100:0049---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01047>      ADD HYD            02:VG-10     20.30     .167 No_date  109:00  106.65  n/a
01048>                       +  03:VGR2-3  1126.70   15.714 No_date  113:35  246.74  n/a
01049>       [DT= 5.00]  SUM=  09:JockVG  1147.00   15.777 No_date  113:30  244.26  n/a
01050>  100:0050---------------ID:NHYD-------AREA----QPEAK-TpeakDate_hh:mm----R.V.-R.C.
01051>      SAVE HYD           09:JockVG  1147.00   15.777 No_date  113:30  244.26  n/a
01052>       fname :Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSPRI~1\JockVG.100
01053>       remark:Flow from Van Gaal at Jock River
01054>  100:0002--------------------------------------------------------------------------
01055>       FINISH
01056> --------------------------------------------------------------------------------
01057> ********************************************************************************
01058>      WARNINGS / ERRORS / NOTES
01059>      -------------------------
01060>  002:0027 CALIB STANDHYD
01061>       *** NOTE: The pervious area has no runoff.
01062>  002:0044 CALIB STANDHYD
01063>       *** NOTE: The pervious area has no runoff.
01064>  002:0048 CALIB STANDHYD
01065>       *** NOTE: The pervious area has no runoff.
01066>  005:0027 CALIB STANDHYD
01067>       *** NOTE: The pervious area has no runoff.
01068>  005:0044 CALIB STANDHYD
01069>       *** NOTE: The pervious area has no runoff.
01070>  005:0048 CALIB STANDHYD
01071>       *** NOTE: The pervious area has no runoff.
01072>  100:0027 CALIB STANDHYD
01073>       *** NOTE: The pervious area has no runoff.
01074>  100:0044 CALIB STANDHYD
01075>       *** NOTE: The pervious area has no runoff.
01076>  100:0048 CALIB STANDHYD
01077>       *** NOTE: The pervious area has no runoff.
01078>    Simulation ended on 2009-11-23     at 10:09:46
01079> ================================================================================
01080>
01081>
```

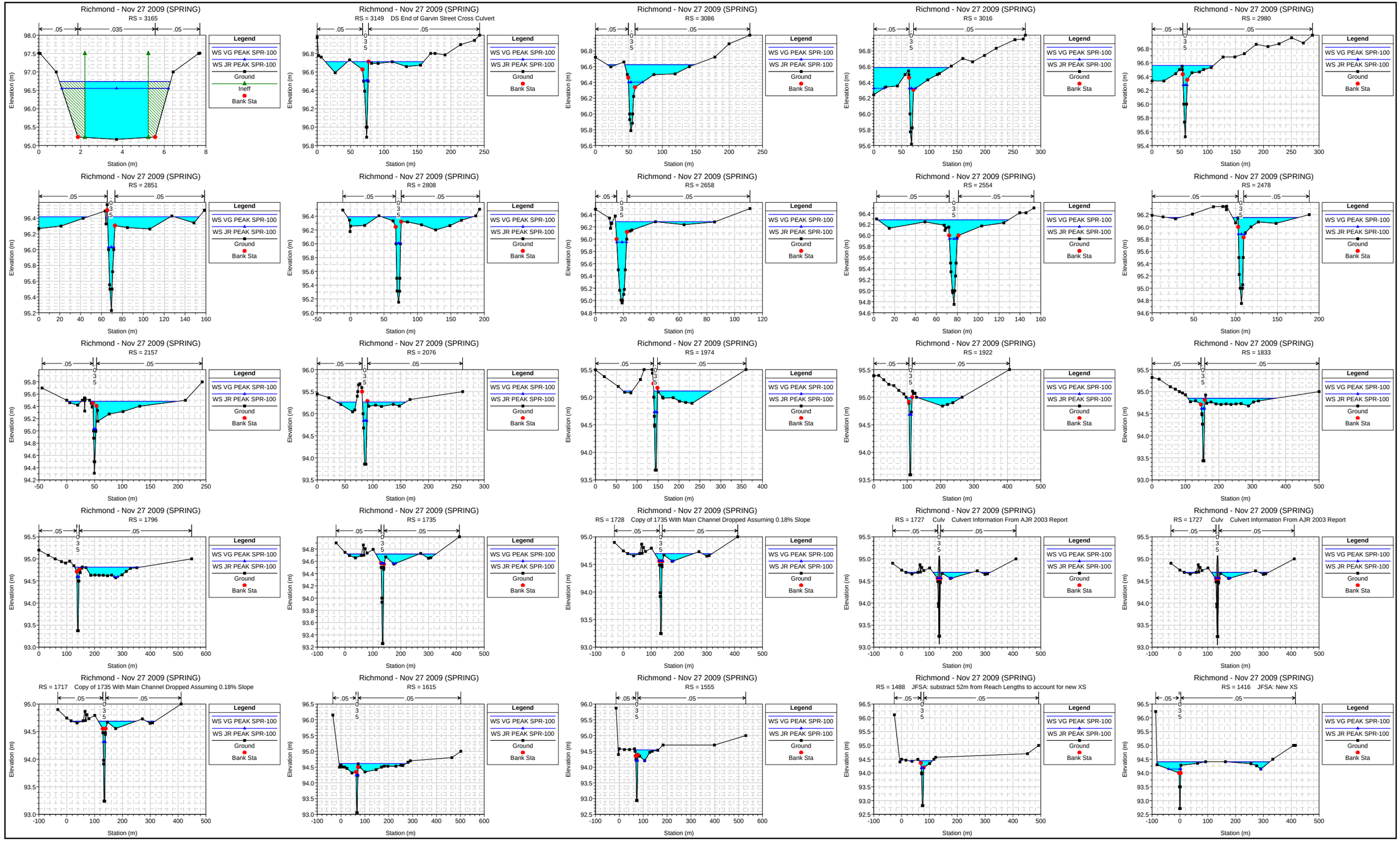
APPENDIX D

JFSA HEC-RAS Profiles and Cross Sections (Spring)

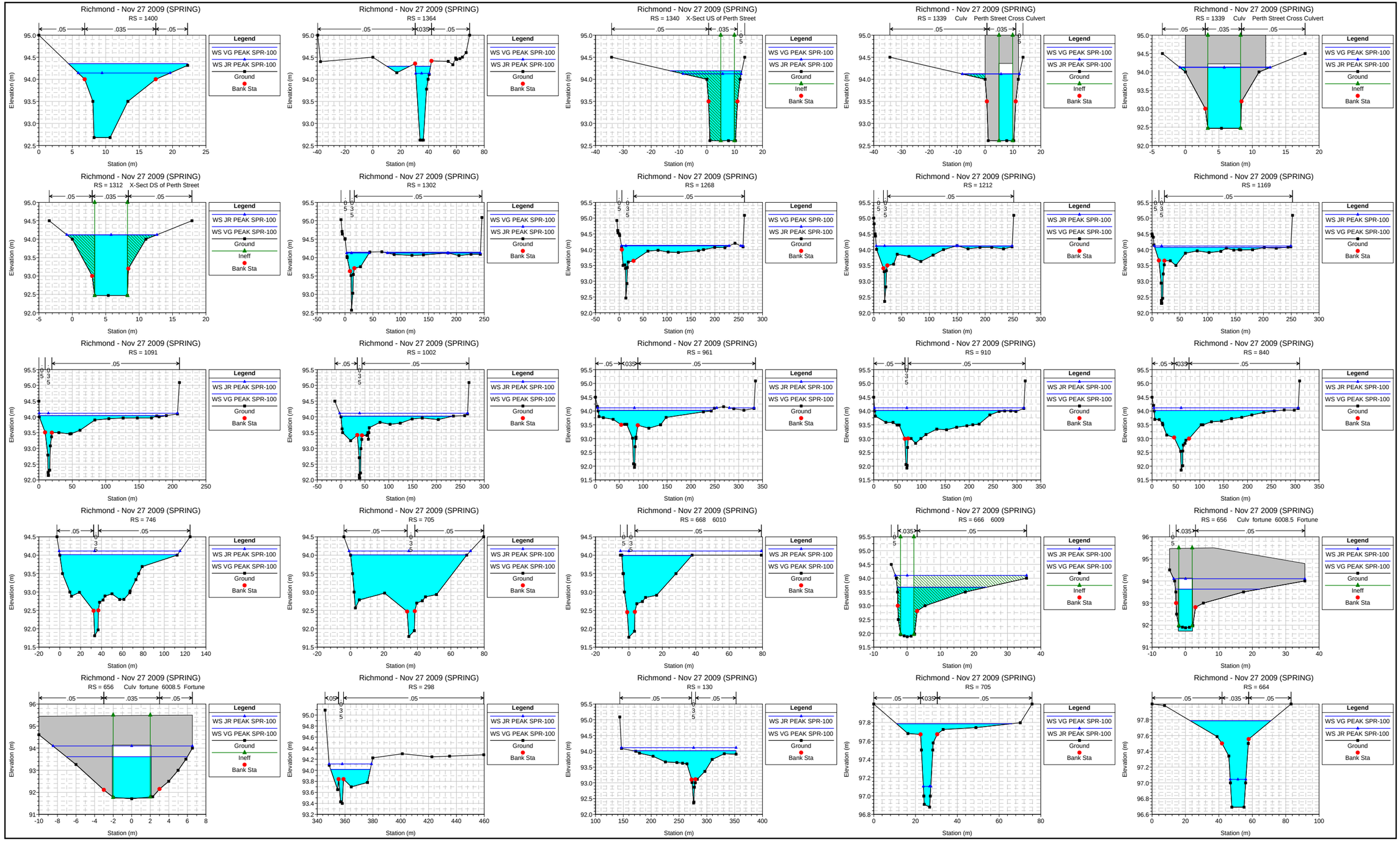
Richmond HEC-RAS Profile (Spring)



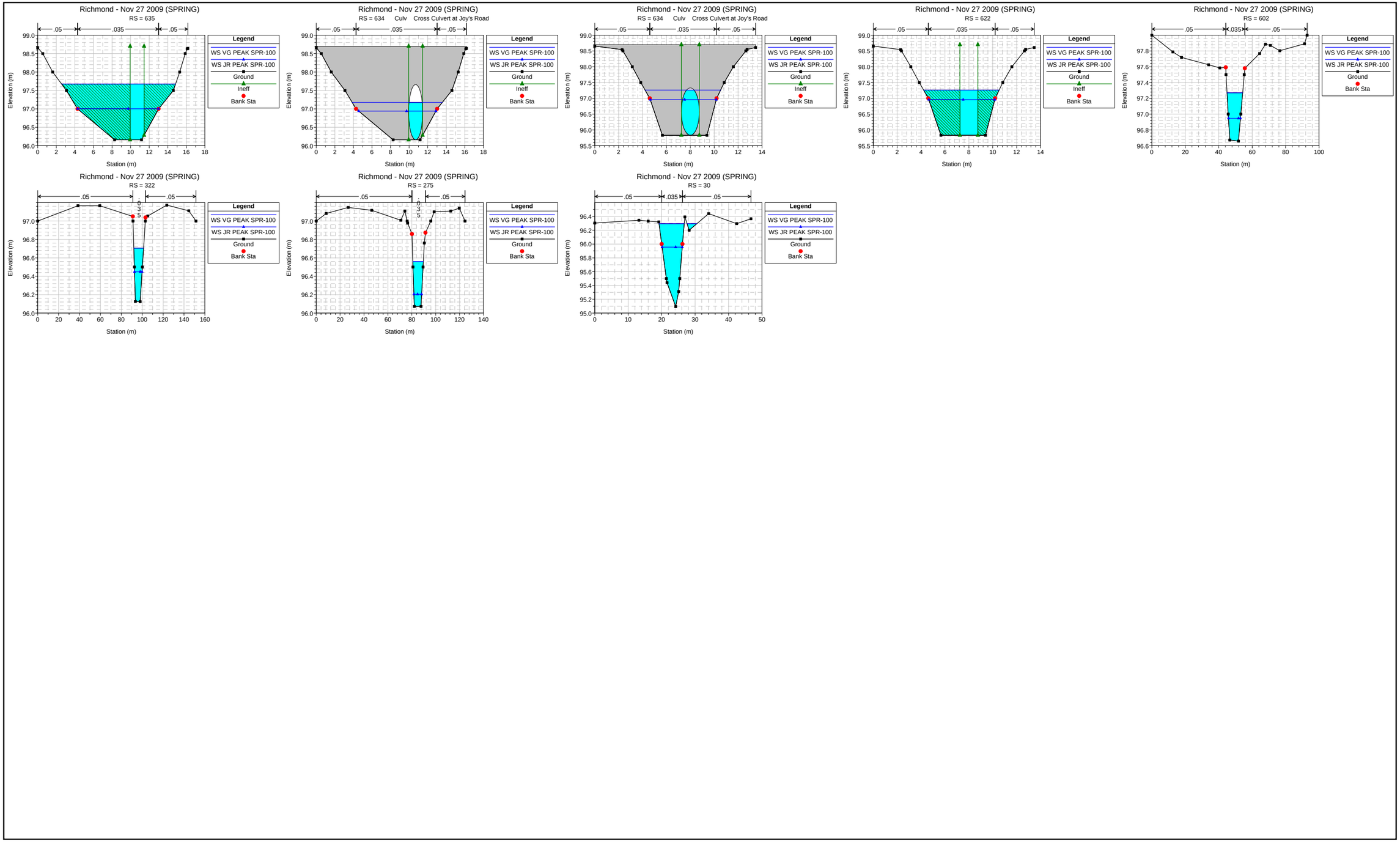
Richmond HEC-RAS Cross Sections (Spring)



Richmond HEC-RAS Cross Sections (Spring)



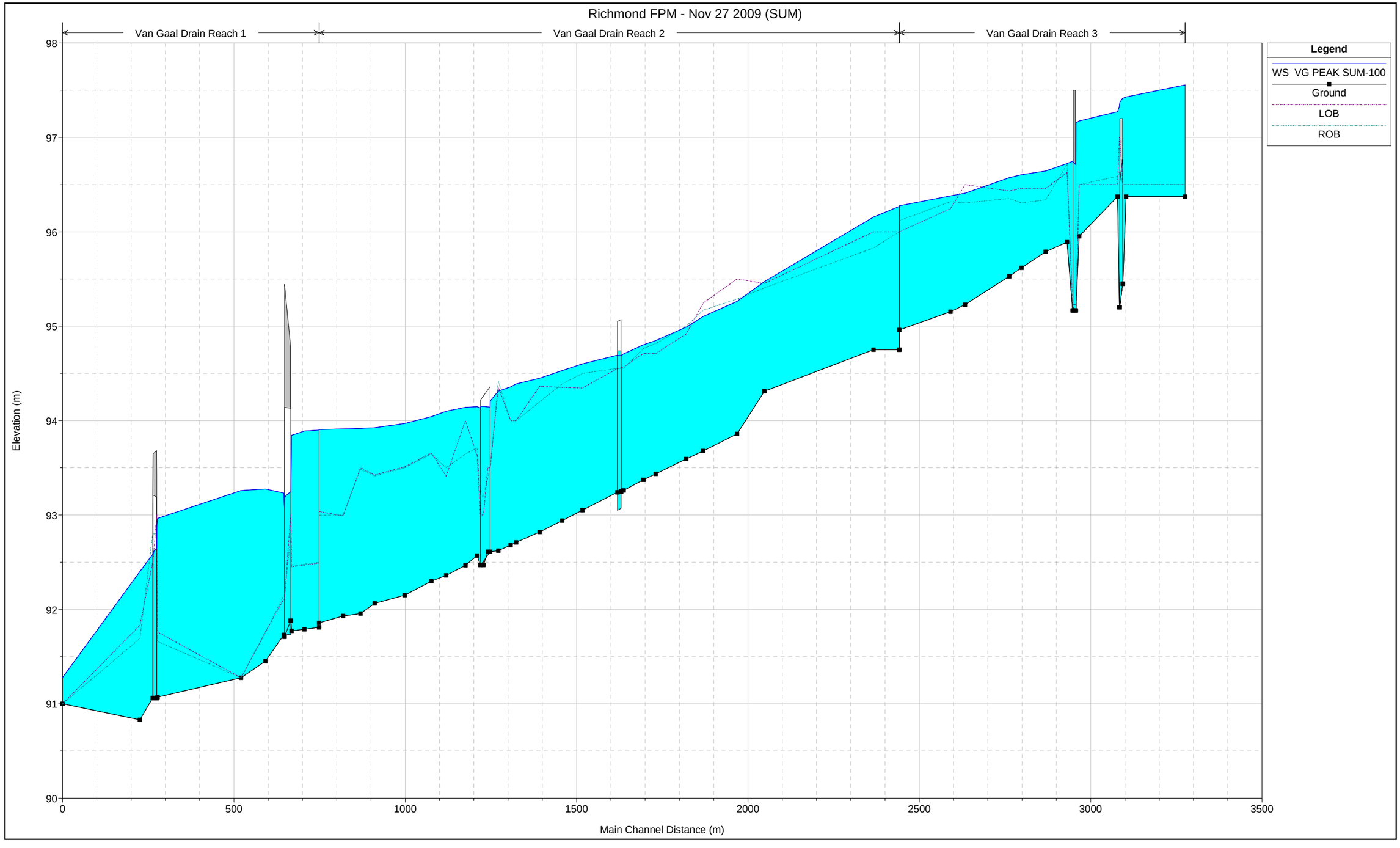
Richmond HEC-RAS Cross Sections (Spring)



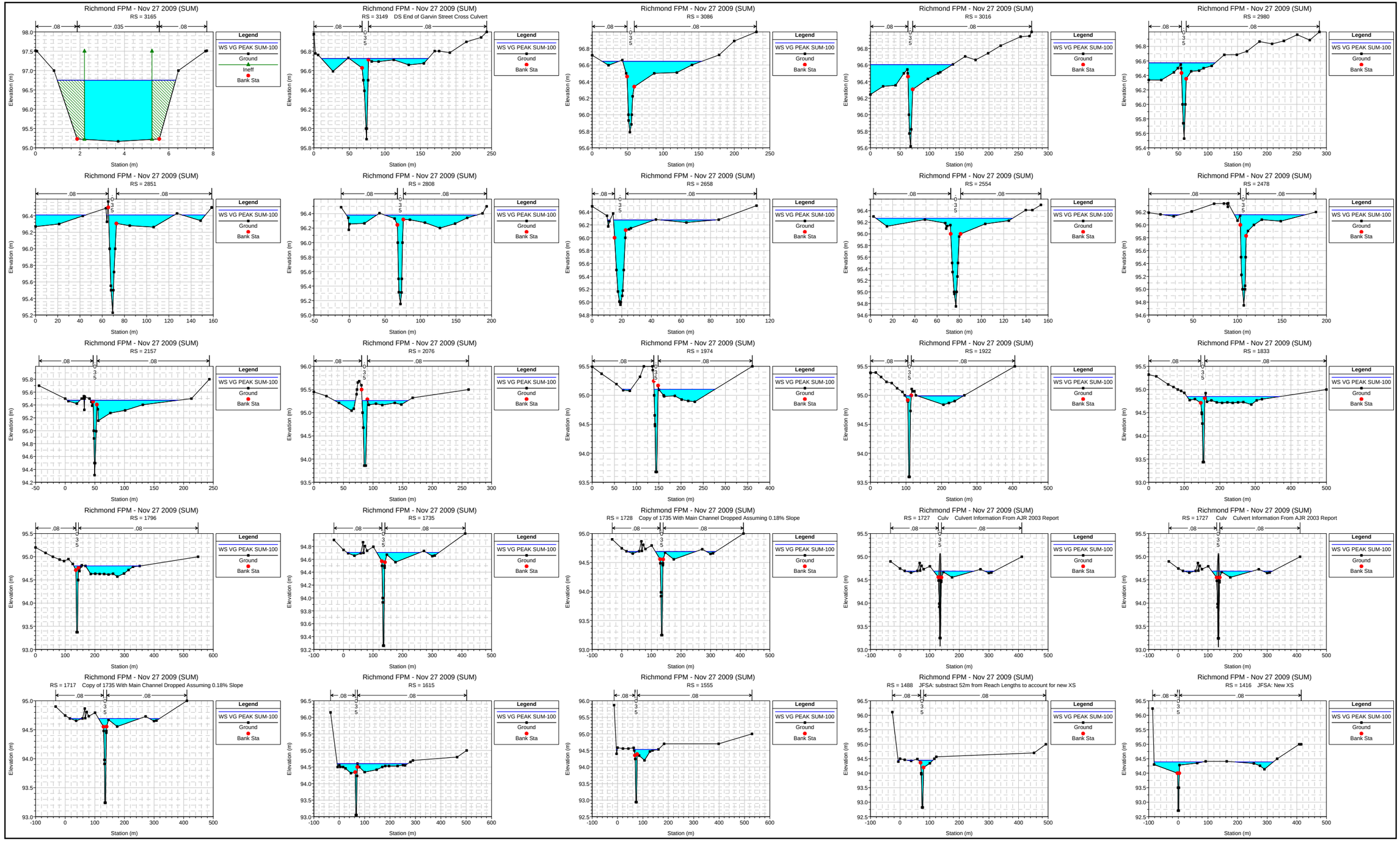
APPENDIX E

JFSA HEC-RAS Profiles and Cross Sections (Summer)

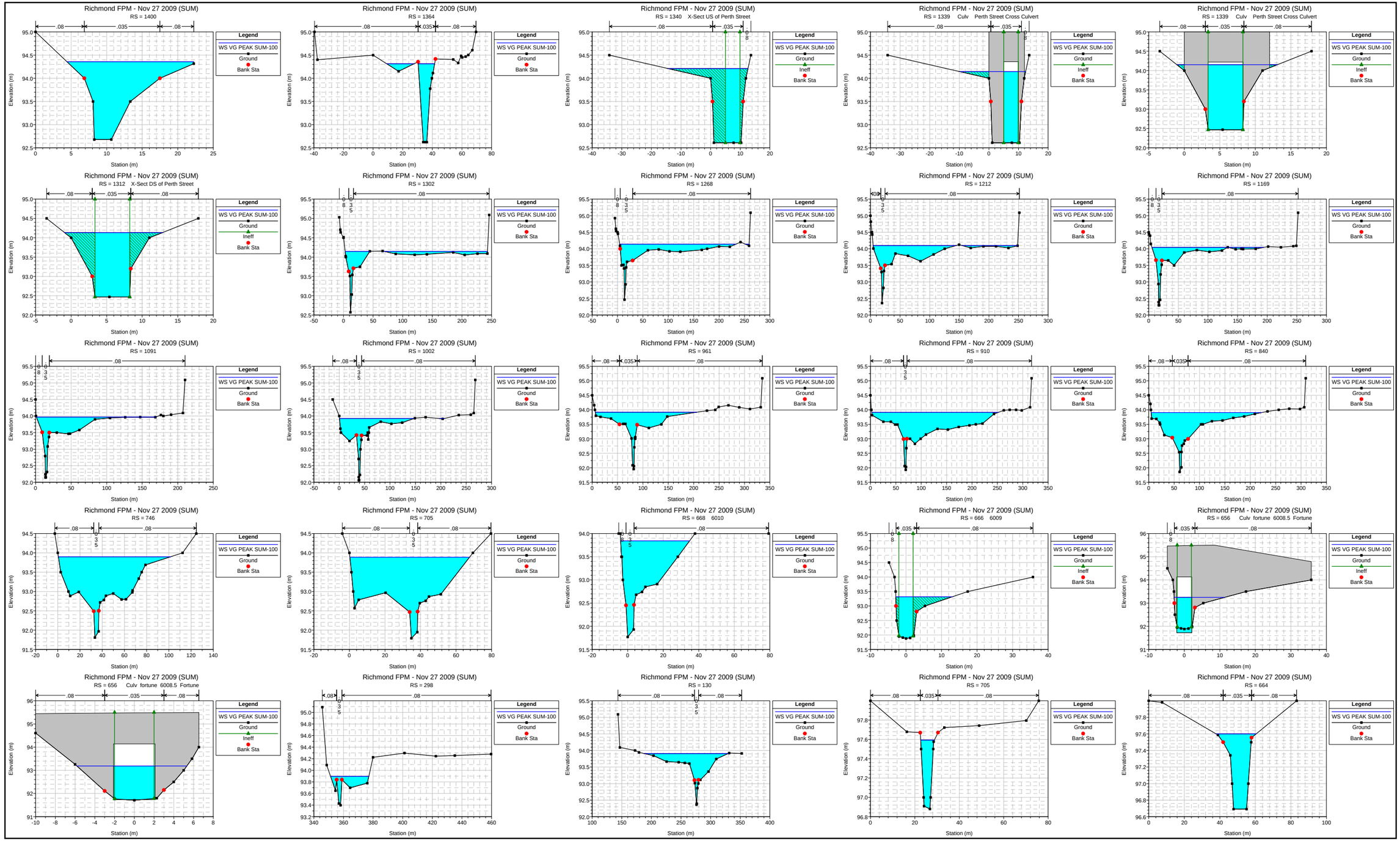
Richmond HEC-RAS Profile (Summer)



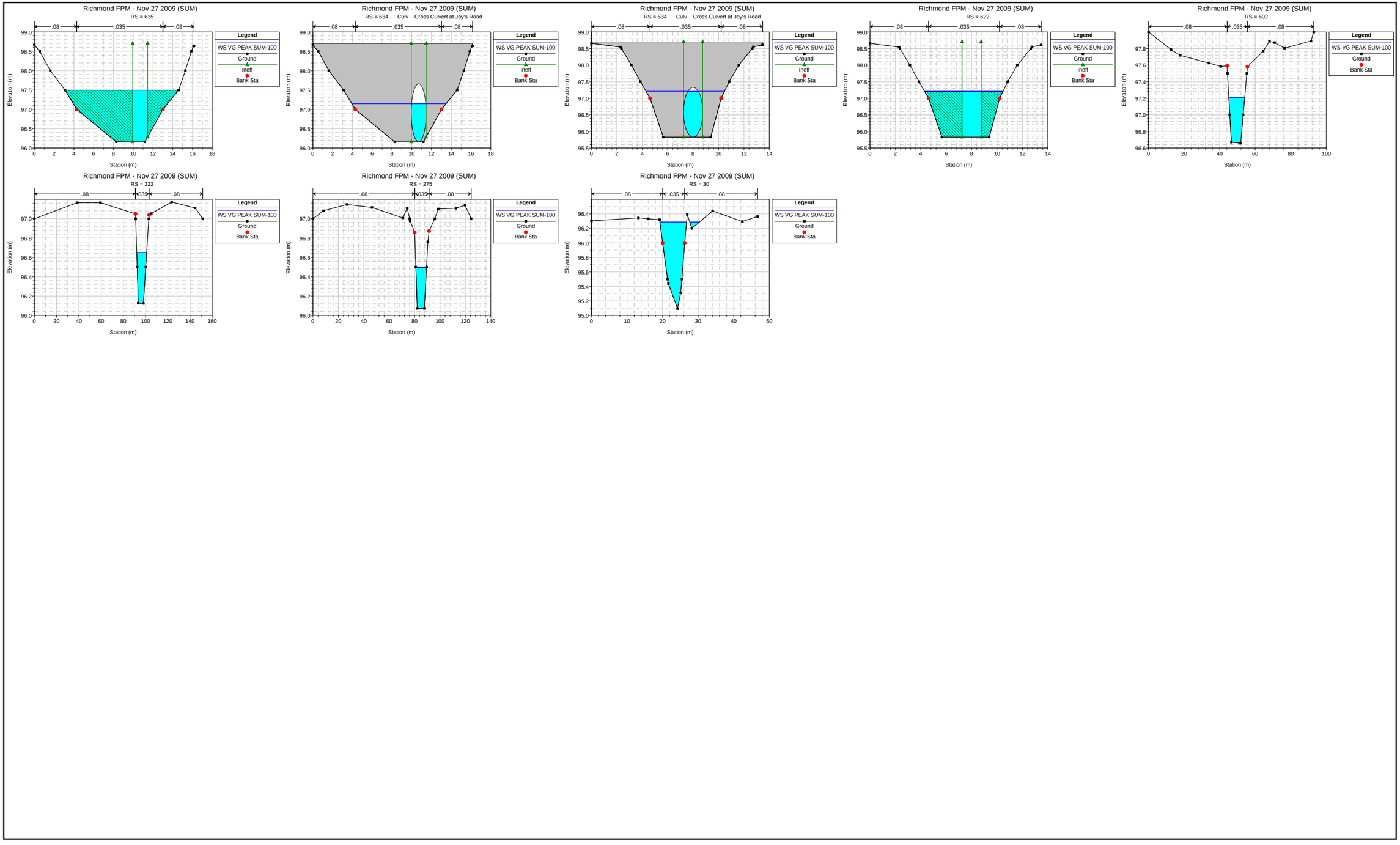
Richmond HEC-RAS Cross Sections (Summer)



Richmond HEC-RAS Cross Sections (Summer)



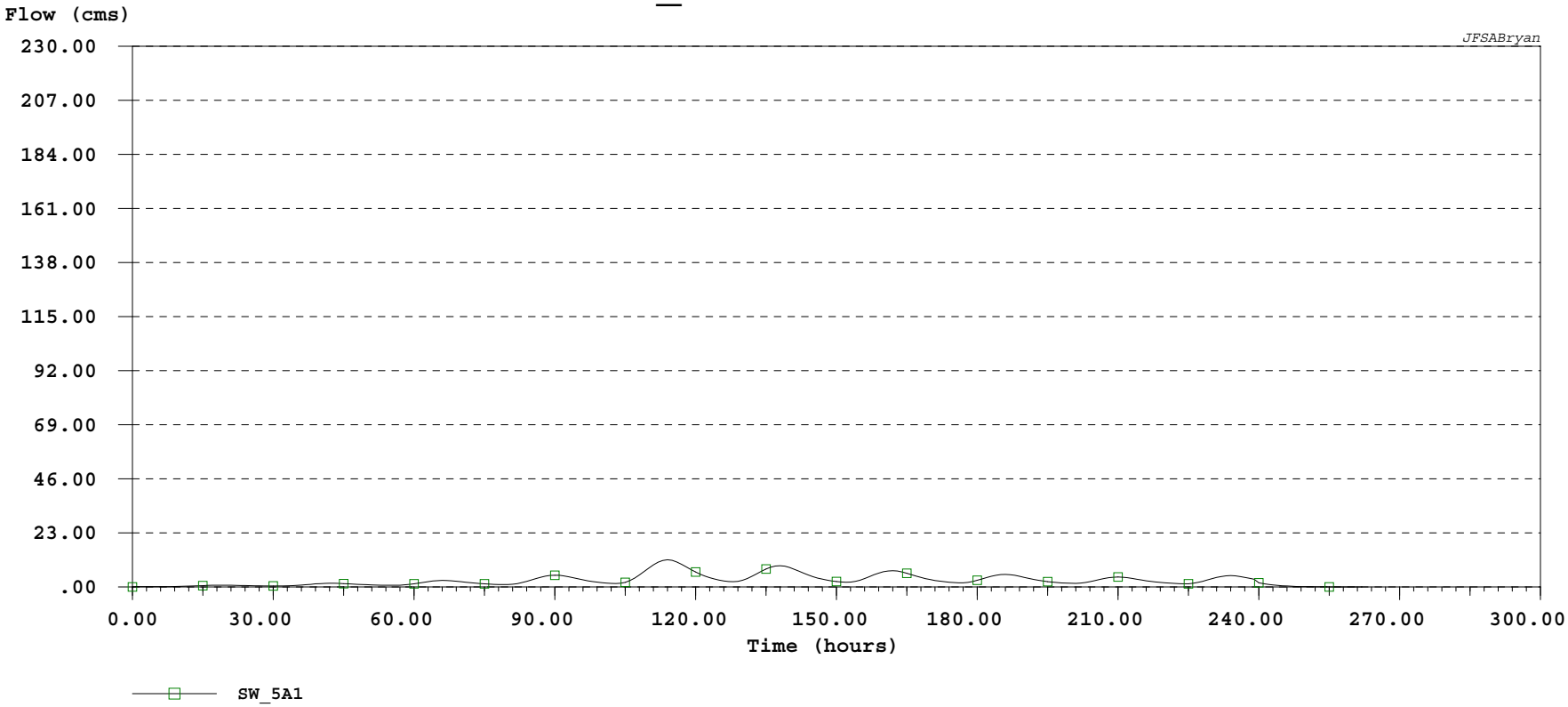
Richmond HEC-RAS Cross Sections (Summer)



APPENDIX F

Jock River Hydrographs (1:100 Year Spring)

SW_5A1 (JR SPRING)



Hydrograph Statistics:

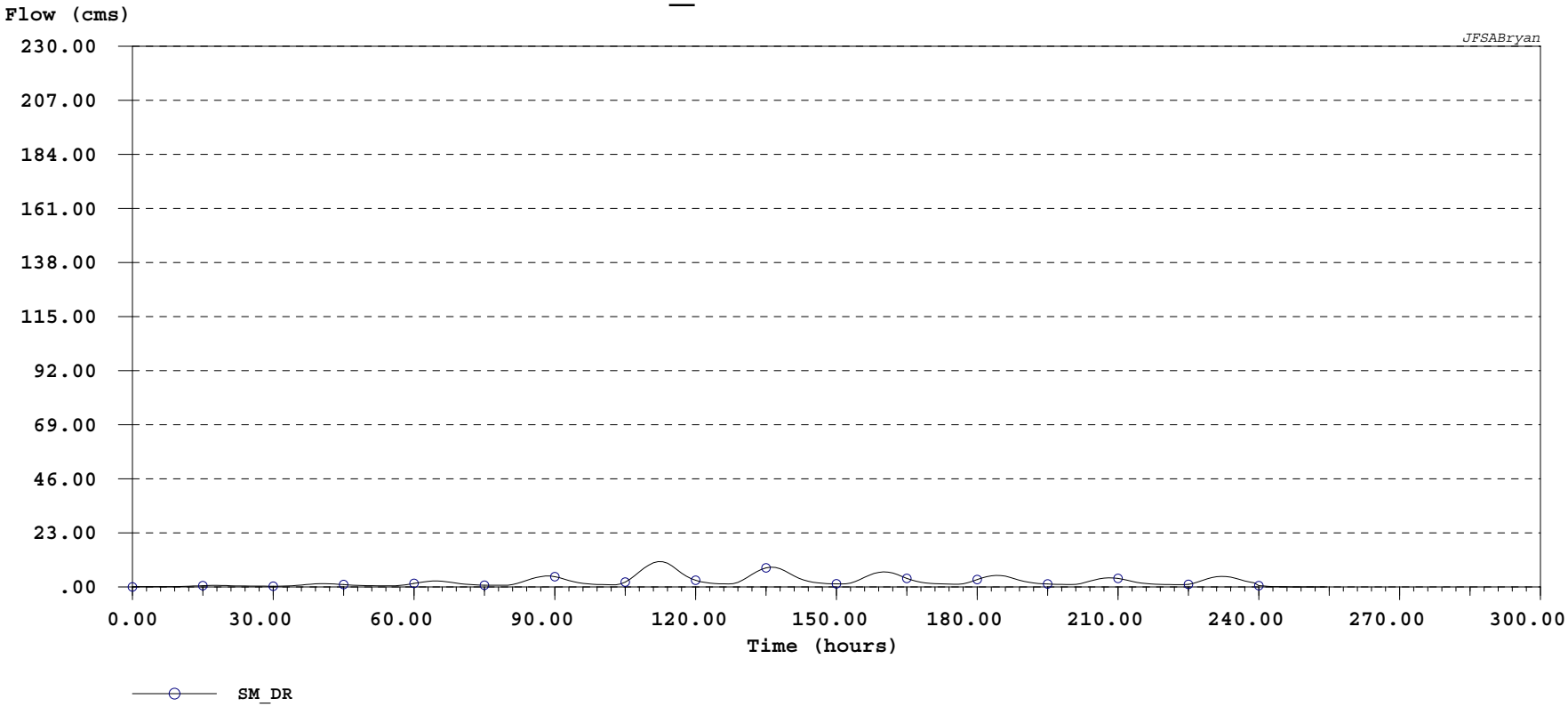
Legend	Filename & Comment	Time Step (min)	Drainage Area (ha)	Peak Flow (cms)	Time to Peak (hrs)	Runoff Volume (mm)	Runoff Volume (cu.m)	Duration of flow (hrs)	Average flow (cms)
	H-SW_5A1.100: SW_5A1	60.00	1412.00	11.536	114.000	186.01	2.626E+06	262.000	2.785

Hydrograph Table:

Hydrograph Filename : Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\JRSPRI~1\H-SW_5A1.100
Comment in file : SW_5A1

# TIME hrs	FLOW cms #	TIME hrs	FLOW cms #	TIME hrs	FLOW cms #	TIME hrs	FLOW cms #	TIME hrs	FLOW cms #	TIME hrs	FLOW cms #	TIME hrs	FLOW cms #
0.00	0.000	41.00	1.520	82.00	1.433	123.00	3.931	164.00	6.367	205.00	2.691	246.00	0.396
1.00	0.131	42.00	1.565	83.00	1.848	124.00	3.376	165.00	5.825	206.00	3.153	247.00	0.299
2.00	0.130	43.00	1.559	84.00	2.373	125.00	2.930	166.00	5.220	207.00	3.578	248.00	0.224
3.00	0.129	44.00	1.504	85.00	2.964	126.00	2.576	167.00	4.614	208.00	3.920	249.00	0.167
4.00	0.128	45.00	1.418	86.00	3.568	127.00	2.313	168.00	4.048	209.00	4.143	250.00	0.123
5.00	0.127	46.00	1.315	87.00	4.127	128.00	2.203	169.00	3.543	210.00	4.221	251.00	0.091
6.00	0.125	47.00	1.209	88.00	4.586	129.00	2.356	170.00	3.109	211.00	4.143	252.00	0.067
7.00	0.124	48.00	1.107	89.00	4.896	130.00	2.818	171.00	2.746	212.00	3.931	253.00	0.048
8.00	0.150	49.00	1.015	90.00	5.017	131.00	3.564	172.00	2.448	213.00	3.635	254.00	0.034
9.00	0.188	50.00	0.935	91.00	4.934	132.00	4.519	173.00	2.208	214.00	3.300	255.00	0.023
10.00	0.233	51.00	0.867	92.00	4.673	133.00	5.586	174.00	2.017	215.00	2.963	256.00	0.016
11.00	0.286	52.00	0.810	93.00	4.295	134.00	6.659	175.00	1.865	216.00	2.646	257.00	0.010
12.00	0.347	53.00	0.763	94.00	3.864	135.00	7.631	176.00	1.756	217.00	2.364	258.00	0.006
13.00	0.416	54.00	0.725	95.00	3.426	136.00	8.402	177.00	1.758	218.00	2.120	259.00	0.003
14.00	0.491	55.00	0.701	96.00	3.014	137.00	8.892	178.00	1.943	219.00	1.915	260.00	0.002
15.00	0.568	56.00	0.712	97.00	2.645	138.00	9.038	179.00	2.311	220.00	1.746	261.00	0.000
16.00	0.638	57.00	0.769	98.00	2.326	139.00	8.814	180.00	2.817	221.00	1.609	262.00	0.000
17.00	0.693	58.00	0.901	99.00	2.058	140.00	8.273	181.00	3.400	222.00	1.500	263.00	0.000
18.00	0.725	59.00	1.106	100.00	1.838	141.00	7.531	182.00	3.993	223.00	1.413	264.00	0.000
19.00	0.736	60.00	1.371	101.00	1.660	142.00	6.701	183.00	4.532	224.00	1.351	265.00	0.000
20.00	0.727	61.00	1.673	102.00	1.520	143.00	5.870	184.00	4.961	225.00	1.374	266.00	0.000
21.00	0.702	62.00	1.985	103.00	1.453	144.00	5.094	185.00	5.235	226.00	1.556	267.00	0.000
22.00	0.667	63.00	2.278	104.00	1.556	145.00	4.402	186.00	5.322	227.00	1.909	268.00	0.000
23.00	0.630	64.00	2.522	105.00	1.962	146.00	3.808	187.00	5.208	228.00	2.394	269.00	0.000
24.00	0.592	65.00	2.690	106.00	2.712	147.00	3.311	188.00	4.923	229.00	2.954	270.00	0.000
25.00	0.557	66.00	2.761	107.00	3.781	148.00	2.904	189.00	4.529	230.00	3.525	271.00	0.000
26.00	0.526	67.00	2.729	108.00	5.099	149.00	2.576	190.00	4.087	231.00	4.045	272.00	0.000
27.00	0.499	68.00	2.607	109.00	6.561	150.00	2.315	191.00	3.645	232.00	4.461	273.00	0.000
28.00	0.476	69.00	2.425	110.00	8.041	151.00	2.114	192.00	3.230	233.00	4.728	274.00	0.000
29.00	0.457	70.00	2.215	111.00	9.405	152.00	2.002	193.00	2.860	234.00	4.818	275.00	0.000
30.00	0.441	71.00	2.000	112.00	10.518	153.00	2.065	194.00	2.542	235.00	4.717	276.00	0.000
31.00	0.428	72.00	1.796	113.00	11.261	154.00	2.368	195.00	2.275	236.00	4.453	277.00	0.000
32.00	0.445	73.00	1.613	114.00	11.536	155.00	2.898	196.00	2.055	237.00	4.086	278.00	0.000
33.00	0.485	74.00	1.454	115.00	11.298	156.00	3.595	197.00	1.878	238.00	3.672	279.00	0.000
34.00	0.558	75.00	1.320	116.00	10.611	157.00	4.382	198.00	1.736	239.00	3.257	280.00	0.000
35.00	0.665	76.00	1.210	117.00	9.635	158.00	5.176	199.00	1.624	240.00	1.750	281.00	0.000
36.00	0.803	77.00	1.120	118.00	8.526	159.00	5.893	200.00	1.539	241.00	1.411	282.00	0.000
37.00	0.962	78.00	1.047	119.00	7.406	160.00	6.461	201.00	1.518	242.00	1.120	283.00	0.000
38.00	1.128	79.00	1.008	120.00	6.355	161.00	6.820	202.00	1.622	243.00	0.877	284.00	0.000
39.00	1.287	80.00	1.029	121.00	5.416	162.00	6.927	203.00	1.874	244.00	0.679	285.00	0.000
40.00	1.423	81.00	1.158	122.00	4.607	163.00	6.763	204.00	2.247	245.00	0.521	286.00	0.000

SM_DR (JR SPRING)



Hydrograph Statistics:

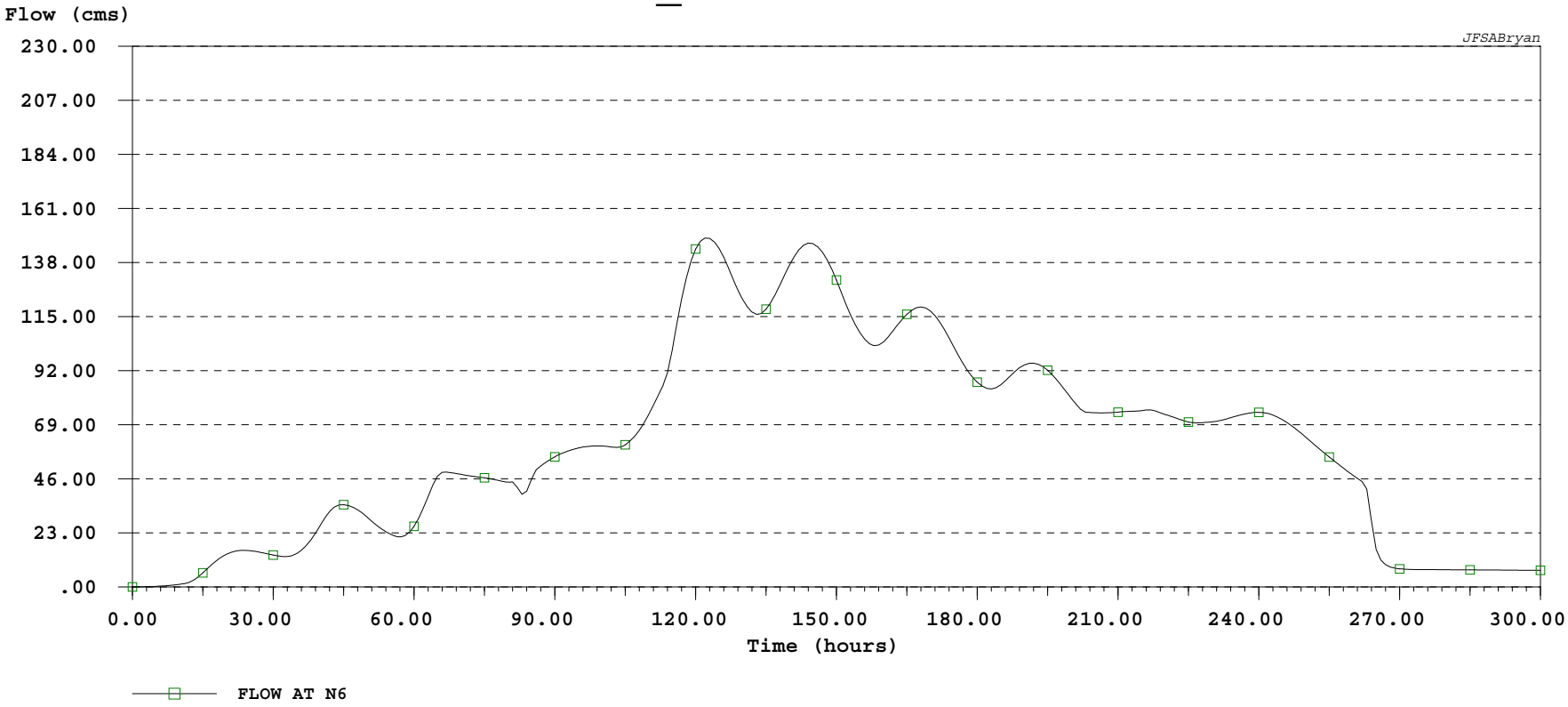
Legend	Filename & Comment	Time Step (min)	Drainage Area (ha)	Peak Flow (cms)	Time to Peak (hrs)	Runoff Volume (mm)	Runoff Volume (cu.m)	Duration of flow (hrs)	Average flow (cms)
——○——	H-SM_DR.100 : SM_DR	60.00	1122.00	10.775	112.000	186.01	2.087E+06	254.000	2.282

Hydrograph Table:

Hydrograph Filename : Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\JRSPRI~1\H-SM_DR.100
Comment in file : SM_DR

# TIME hrs	FLOW cms	# TIME hrs	FLOW cms	# TIME hrs	FLOW cms	# TIME hrs	FLOW cms	# TIME hrs	FLOW cms	# TIME hrs	FLOW cms	# TIME hrs	FLOW cms
0.00	0.000	41.00	1.419	82.00	1.505	123.00	1.648	164.00	4.444	205.00	2.992	246.00	0.039
1.00	0.104	42.00	1.377	83.00	2.112	124.00	1.477	165.00	3.649	206.00	3.440	247.00	0.023
2.00	0.103	43.00	1.272	84.00	2.777	125.00	1.362	166.00	2.966	207.00	3.750	248.00	0.014
3.00	0.102	44.00	1.130	85.00	3.424	126.00	1.287	167.00	2.428	208.00	3.892	249.00	0.008
4.00	0.101	45.00	0.984	86.00	3.984	127.00	1.248	168.00	2.026	209.00	3.856	250.00	0.004
5.00	0.101	46.00	0.856	87.00	4.399	128.00	1.418	169.00	1.738	210.00	3.642	251.00	0.002
6.00	0.100	47.00	0.752	88.00	4.622	129.00	1.981	170.00	1.538	211.00	3.267	252.00	0.001
7.00	0.099	48.00	0.674	89.00	4.621	130.00	2.922	171.00	1.401	212.00	2.809	253.00	0.000
8.00	0.119	49.00	0.617	90.00	4.381	131.00	4.095	172.00	1.308	213.00	2.361	254.00	0.000
9.00	0.150	50.00	0.576	91.00	3.915	132.00	5.337	173.00	1.245	214.00	1.976	255.00	0.000
10.00	0.189	51.00	0.547	92.00	3.326	133.00	6.498	174.00	1.201	215.00	1.672	256.00	0.000
11.00	0.241	52.00	0.527	93.00	2.742	134.00	7.456	175.00	1.171	216.00	1.444	257.00	0.000
12.00	0.306	53.00	0.513	94.00	2.235	135.00	8.114	176.00	1.157	217.00	1.280	258.00	0.000
13.00	0.383	54.00	0.503	95.00	1.833	136.00	8.404	177.00	1.339	218.00	1.165	259.00	0.000
14.00	0.467	55.00	0.499	96.00	1.532	137.00	8.289	178.00	1.798	219.00	1.086	260.00	0.000
15.00	0.548	56.00	0.525	97.00	1.315	138.00	7.759	179.00	2.446	220.00	1.032	261.00	0.000
16.00	0.614	57.00	0.634	98.00	1.164	139.00	6.842	180.00	3.159	221.00	0.994	262.00	0.000
17.00	0.653	58.00	0.856	99.00	1.060	140.00	5.726	181.00	3.830	222.00	0.968	263.00	0.000
18.00	0.658	59.00	1.159	100.00	0.990	141.00	4.635	182.00	4.380	223.00	0.949	264.00	0.000
19.00	0.630	60.00	1.501	101.00	0.942	142.00	3.699	183.00	4.754	224.00	0.940	265.00	0.000
20.00	0.580	61.00	1.841	102.00	0.911	143.00	2.960	184.00	4.918	225.00	1.092	266.00	0.000
21.00	0.525	62.00	2.142	103.00	0.927	144.00	2.409	185.00	4.855	226.00	1.502	267.00	0.000
22.00	0.474	63.00	2.372	104.00	1.255	145.00	2.015	186.00	4.568	227.00	2.106	268.00	0.000
23.00	0.431	64.00	2.506	105.00	2.068	146.00	1.740	187.00	4.074	228.00	2.785	269.00	0.000
24.00	0.398	65.00	2.524	106.00	3.300	147.00	1.554	188.00	3.476	229.00	3.430	270.00	0.000
25.00	0.374	66.00	2.416	107.00	4.807	148.00	1.428	189.00	2.892	230.00	3.961	271.00	0.000
26.00	0.356	67.00	2.192	108.00	6.420	149.00	1.344	190.00	2.391	231.00	4.323	272.00	0.000
27.00	0.343	68.00	1.902	109.00	7.971	150.00	1.287	191.00	1.995	232.00	4.484	273.00	0.000
28.00	0.334	69.00	1.612	110.00	9.303	151.00	1.251	192.00	1.699	233.00	4.430	274.00	0.000
29.00	0.327	70.00	1.359	111.00	10.275	152.00	1.310	193.00	1.487	234.00	4.162	275.00	0.000
30.00	0.322	71.00	1.158	112.00	10.775	153.00	1.654	194.00	1.339	235.00	3.698	276.00	0.000
31.00	0.318	72.00	1.006	113.00	10.722	154.00	2.322	195.00	1.237	236.00	3.135	277.00	0.000
32.00	0.336	73.00	0.896	114.00	10.082	155.00	3.196	196.00	1.167	237.00	2.585	278.00	0.000
33.00	0.390	74.00	0.819	115.00	8.881	156.00	4.134	197.00	1.120	238.00	2.113	279.00	0.000
34.00	0.495	75.00	0.766	116.00	7.377	157.00	5.009	198.00	1.086	239.00	1.741	280.00	0.000
35.00	0.643	76.00	0.729	117.00	5.889	158.00	5.725	199.00	1.063	240.00	0.574	281.00	0.000
36.00	0.817	77.00	0.703	118.00	4.604	159.00	6.211	200.00	1.049	241.00	0.381	282.00	0.000
37.00	0.998	78.00	0.685	119.00	3.586	160.00	6.419	201.00	1.133	242.00	0.248	283.00	0.000
38.00	1.165	79.00	0.687	120.00	2.826	161.00	6.327	202.00	1.424	243.00	0.159	284.00	0.000
39.00	1.302	80.00	0.770	121.00	2.282	162.00	5.933	203.00	1.898	244.00	0.101	285.00	0.000
40.00	1.391	81.00	1.036	122.00	1.904	163.00	5.260	204.00	2.454	245.00	0.063	286.00	0.000

S_N6 (JR SPRING)



Hydrograph Statistics:

Legend	Filename & Comment	Time Step (min)	Drainage Area (ha)	Peak Flow (cms)	Time to Peak (hrs)	Runoff Volume (mm)	Runoff Volume (cu.m)	Duration of flow (hrs)	Average flow (cms)
	H-S_N6.100 : FLOW AT N6	20.00	40055.00	148.447	122.000	164.60	6.593E+07	300.000	61.047

Hydrograph Table:

Hydrograph Filename : Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\JRSPRI~1\H-S_N6.100
Comment in file : FLOW AT N6

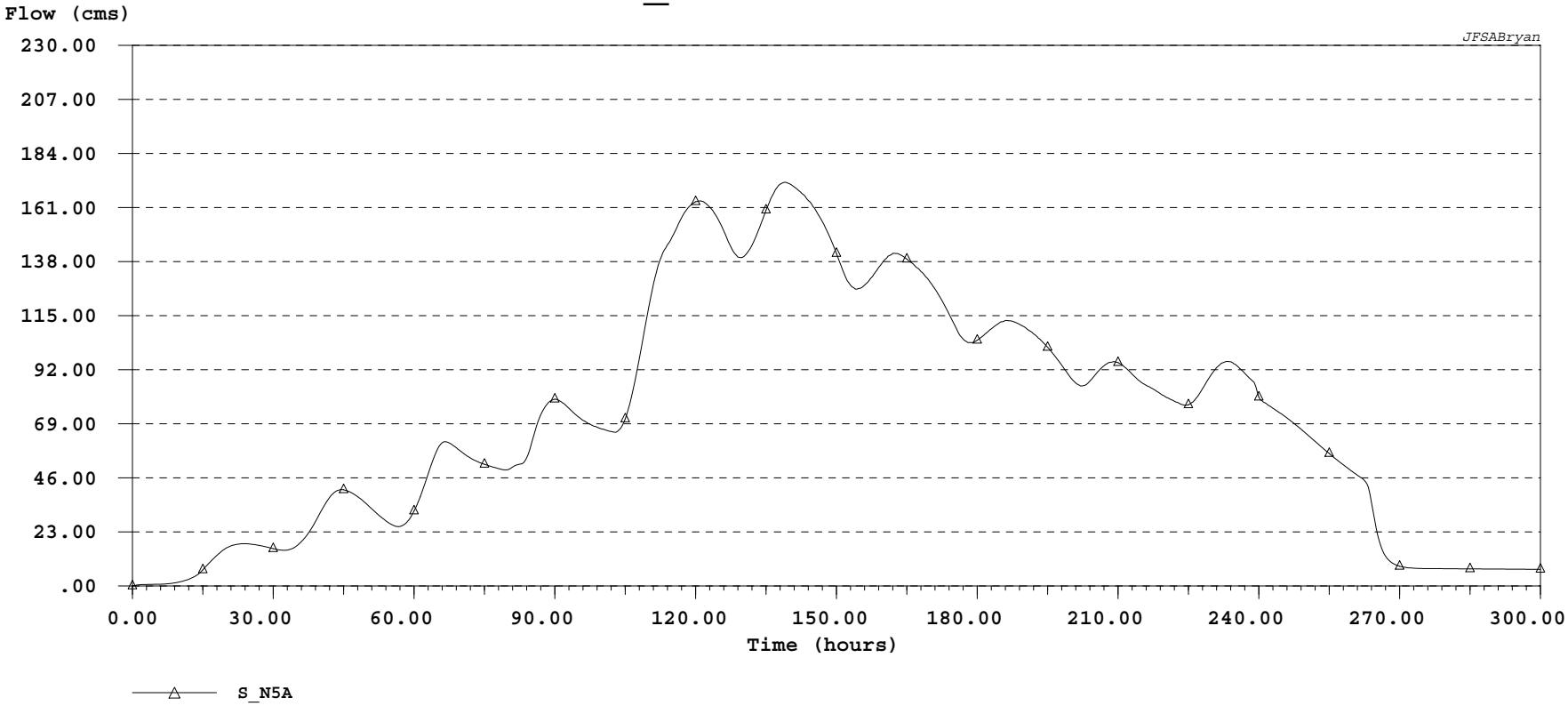
TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
0.00	0.000	43.67	34.551	87.33	51.953	131.00	119.200	174.67	103.382	218.33	74.599
0.33	0.007	44.00	34.837	87.67	52.436	131.33	118.439	175.00	102.132	218.67	74.347
0.67	0.014	44.33	34.896	88.00	52.877	131.67	117.679	175.33	100.875	219.00	74.101
1.00	0.022	44.67	34.948	88.33	53.346	132.00	116.934	175.67	99.633	219.33	73.855
1.33	0.030	45.00	34.993	88.67	53.776	132.33	116.603	176.00	98.408	219.67	73.610
1.67	0.038	45.33	34.868	89.00	54.167	132.67	116.282	176.33	97.231	220.00	73.367
2.00	0.046	45.67	34.743	89.33	54.602	133.00	115.941	176.67	96.077	220.33	73.164
2.33	0.062	46.00	34.627	89.67	54.996	133.33	116.056	177.00	94.953	220.67	72.963
2.67	0.078	46.33	34.376	90.00	55.350	133.67	116.176	177.33	93.900	221.00	72.763
3.00	0.093	46.67	34.135	90.33	55.731	134.00	116.309	177.67	92.870	221.33	72.535
3.33	0.117	47.00	33.899	90.67	56.073	134.33	116.950	178.00	91.854	221.67	72.311
3.67	0.140	47.33	33.526	91.00	56.371	134.67	117.552	178.33	90.949	222.00	72.092
4.00	0.164	47.67	33.161	91.33	56.680	135.00	118.108	178.67	90.070	222.33	71.855
4.33	0.194	48.00	32.812	91.67	56.957	135.33	119.090	179.00	89.201	222.67	71.620
4.67	0.225	48.33	32.337	92.00	57.215	135.67	120.039	179.33	88.491	223.00	71.392
5.00	0.256	48.67	31.871	92.33	57.475	136.00	120.949	179.67	87.786	223.33	71.151
5.33	0.294	49.00	31.414	92.67	57.732	136.33	122.191	180.00	87.088	223.67	70.923
5.67	0.332	49.33	30.845	93.00	57.970	136.67	123.386	180.33	86.571	224.00	70.713
6.00	0.370	49.67	30.278	93.33	58.161	137.00	124.533	180.67	86.034	224.33	70.519
6.33	0.414	50.00	29.711	93.67	58.354	137.33	125.938	181.00	85.490	224.67	70.341
6.67	0.458	50.33	29.102	94.00	58.558	137.67	127.298	181.33	85.173	225.00	70.178
7.00	0.502	50.67	28.501	94.33	58.737	138.00	128.613	181.67	84.836	225.33	70.053
7.33	0.553	51.00	27.910	94.67	58.917	138.33	130.076	182.00	84.484	225.67	69.958
7.67	0.615	51.33	27.360	95.00	59.095	138.67	131.501	182.33	84.401	226.00	69.889
8.00	0.673	51.67	26.814	95.33	59.230	139.00	132.883	182.67	84.312	226.33	69.848
8.33	0.742	52.00	26.269	95.67	59.385	139.33	134.274	183.00	84.210	226.67	69.820
8.67	0.808	52.33	25.779	96.00	59.548	139.67	135.630	183.33	84.394	227.00	69.813
9.00	0.873	52.67	25.292	96.33	59.626	140.00	136.948	183.67	84.565	227.33	69.837
9.33	0.951	53.00	24.808	96.67	59.694	140.33	138.133	184.00	84.723	227.67	69.857
9.67	1.027	53.33	24.373	97.00	59.779	140.67	139.307	184.33	85.156	228.00	69.878
10.00	1.103	53.67	23.940	97.33	59.815	141.00	140.488	184.67	85.570	228.33	69.941
10.33	1.196	54.00	23.510	97.67	59.876	141.33	141.462	185.00	85.961	228.67	69.997
10.67	1.290	54.33	23.140	98.00	59.956	141.67	142.447	185.33	86.562	229.00	70.034
11.00	1.387	54.67	22.776	98.33	59.958	142.00	143.431	185.67	87.141	229.33	70.102
11.33	1.544	55.00	22.419	98.67	59.963	142.33	144.073	186.00	87.695	229.67	70.168
11.67	1.711	55.33	22.125	99.00	59.980	142.67	144.717	186.33	88.371	230.00	70.221
12.00	1.890	55.67	21.846	99.33	59.954	143.00	145.381	186.67	89.023	230.33	70.317
12.33	2.187	56.00	21.589	99.67	59.945	143.33	145.665	187.00	89.652	230.67	70.398
12.67	2.505	56.33	21.460	100.00	59.951	143.67	145.954	187.33	90.310	231.00	70.471
13.00	2.843	56.67	21.348	100.33	59.905	144.00	146.252	187.67	90.949	231.33	70.617
13.33	3.294	57.00	21.265	100.67	59.862	144.33	146.167	188.00	91.572	231.67	70.752
13.67	3.757	57.33	21.402	101.00	59.819	144.67	146.105	188.33	92.138	232.00	70.872
14.00	4.240	57.67	21.570	101.33	59.724	145.00	146.048	188.67	92.698	232.33	71.060
14.33	4.820	58.00	21.758	101.67	59.640	145.33	145.585	189.00	93.248	232.67	71.230
14.67	5.400	58.33	22.235	102.00	59.566	145.67	145.130	189.33	93.646	233.00	71.383
15.00	5.977	58.67	22.734	102.33	59.486	146.00	144.704	189.67	94.040	233.33	71.603
15.33	6.610	59.00	23.240	102.67	59.415	146.33	143.931	190.00	94.437	233.67	71.802
15.67	7.240	59.33	24.084	103.00	59.365	146.67	143.178	190.33	94.639	234.00	71.984
16.00	7.863	59.67	24.936	103.33	59.368	147.00	142.441	190.67	94.848	234.33	72.206
16.33	8.486	60.00	25.781	103.67	59.425	147.33	141.358	191.00	95.074	234.67	72.402
16.67	9.090	60.33	26.964	104.00	59.552	147.67	140.280	191.33	95.105	235.00	72.578
17.00	9.677	60.67	28.139	104.33	59.778	148.00	139.221	191.67	95.149	235.33	72.773
17.33	10.255	61.00	29.307	104.67	60.085	148.33	137.868	192.00	95.193	235.67	72.952
17.67	10.819	61.33	30.779	105.00	60.479	148.67	136.531	192.33	95.024	236.00	73.119
18.00	11.366	61.67	32.240	105.33	60.991	149.00	135.207	192.67	94.869	236.33	73.286
18.33	11.854	62.00	33.692	105.67	61.545	149.33	133.649	193.00	94.731	236.67	73.438
18.67	12.324	62.33	35.288	106.00	62.106	149.67	132.092	193.33	94.392	237.00	73.579
19.00	12.777	62.67	36.875	106.33	62.744	150.00	130.543	193.67	94.063	237.33	73.699
19.33	13.161	63.00	38.458	106.67	63.394	150.33	128.842	194.00	93.743	237.67	73.818
19.67	13.531	63.33	40.083	107.00	64.088	150.67	127.156	194.33	93.233	238.00	73.937
20.00	13.888	63.67	41.688	107.33	64.922	151.00	125.485	194.67	92.723	238.33	74.021
20.33	14.168	64.00	43.271	107.67	65.760	151.33	123.766	195.00	92.214	238.67	74.121
20.67	14.445	64.33	44.586	108.00	66.619	151.67	122.069	195.33	91.549	239.00	74.236
21.00	14.723	64.67	45.878	108.33	67.667	152.00	120.399	195.67	90.896	239.33	74.236
21.33	14.904	65.00	47.148	108.67	68.719	152.33	118.809	196.00	90.250	239.67	74.236
21.67	15.087	65.33	47.707	109.00	69.758	152.67	117.253	196.33	89.493	240.00	74.243
22.00	15.274	65.67	48.241	109.33	70.993	153.00	115.726	196.67	88.738	240.33	74.203
22.33	15.359	66.00	48.750	109.67	72.184	153.33	114.324	197.00	87.984	240.67	74.177
22.67	15.447	66.33	48.797	110.00	73.334	153.67	112.964	197.33	87.154	241.00	74.162
23.00	15.538	66.67	48.818	110.33	74.690	154.00	111.639	197.67	86.328	241.33	74.035
23.33	15.542	67.00	48.808	110.67	76.004	154.33	110.466	198.00	85.502	241.67	73.915
23.67	15.545	67.33	48.738	111.00	77.274	154.67	109.312	198.33	84.633	242.00	73.797
24.00	15.555	67.67	48.649	111.33	78.686	155.00	108.177	198.67	83.769	242.33	73.569
24.33	15.507	68.00	48.545	111.67	80.036	155.33	107.265	199.00	82.915	242.67	73.344
24.67	15.466	68.33	48.452	112.00	81.334	155.67	106.341	199.33	82.047	243.00	73.126
25.00	15.429	68.67	48.353	112.33	82.748	156.00	105.411	199.67	81.189	243.33	72.830
25.33	15.346	69.00	48.246	112.67	84.107	156.33	104.780	200.00	80.347	243.67	72.539
25.67	15.265	69.33	48.140	113.00	85.402	156.67	104.141	200.33	79.512	244.00	72.253
26.00	15.186	69.67	48.027	113.33	87.387	157.00	103.495	200.67	78.689	244.33	71.895
26.33	15.070	70.00	47.904	113.67	89.294	157.33	103.205	201.00	77.879	244.67	71.537
26.67	14.957	70.33	47.774	114.00	91.116	157.67	102.919	201.33	77.099	245.00	71.182
27.00	14.845	70.67	47.646	114.33	94.348	158.00	102.631	201.67	76.344	245.33	70.766
27.33	14.700	71.00	47.523	114.67	97.511	158.33	102.735	202.00	75.612	245.67	70.351
27.67	14.556	71.33	47.399	115.00	100.612	158.67	102.821	202.33	75.196	246.00	69.937
28.00	14.417	71.67	47.295	115.33	104.466	159.00	102.886	202.67	74.785	246.33	69.465
28.33	14.269	72.00	47.212	115.67	108.251	159.33	103.331	203.00	74.383	246.67	68.999
28.67	14.122	72.33	47.119	116.00	111.991	159.67	103.753	203.33	74.314	247.00	68.535
29.00	13.977	72.67	47.026	116.33	115.482	160.00	104.156	203.67	74.252	247.33	68.024
29.33	13.835	73.00	46.937	116.67	118.947	160.33	104.883	204.00	74.186	247.67	67.515
29.67	13.695	73.33	46.838	117.00	122.391	160.67	105.585	204.33	74.160	248.00	67.009
30.00	13.557	73.67	46.757	117.33	125.338	161.00	106.261	204.67	74.134	248.33	66.472
30.33	13.435	74.00	46.689	117.67	128.291	161.33	107.142	205.00	74.106	248.67	65.937
30.67	13.315	74.33	46.594	118.00	131.291	161.67	107.985	205.33	74.111	249.00	65.403
31.00	13.197	74.67	46.509	118.33	133.681	162.00	108.795	205.67	74.099	249.33	64.842
31.33	13.105	75.00	46.425	118.67	136.107	162.33	109.702	206.00	74.067	249.67	64.283
31.67	13.019	75.33	46.310	119.00	138.542	162.67	110.573	206.33	74.068	250.00	63.724
32.00	12.944	75.67	46.198	119.33	140.265	163.00	111.410	206.67	74.064	250.33	63.139
32.33	12.925	76.00	46.097	119.67	142.007	163.33	112.246	207.00	74.049	250.67	62.556
32.67	12.927	76.33	45.972	120.00	143.759	163.67	113.051	207.33	74.076	251.00	61.973
33.00	12.948	76.67	45.853	120.33	144.831	164.00	113.837	207.67	74.083	251.33	61.391
33.33	13.054	77.00	45.739	120.67	145.921	164.33	114.543	208.00	74.075	251.67	60.807
33.67	13.175	77.33	45.594	121.00	147.029	164.67	115.242	208.33	74.125	252.00	60.225
34.00	13.324	77.67	45.451	121.33	147.494	165.00	115.939	208.67	74.166	252.33	59.664
34.33	13.606	78.00	45.311	121.67	147.970	165.33	116.501	209.00	74.194	252.67	59.103
34.67	13.898	78.33	45.153	122.00	148.447	165.67	117.067	209.33	74.266	253.00	58.543
35.00	14.202	78.67	45.001	122.33	148.354	166.00	117.635	209.67	74.321	253.33	57.994
35.33	14.675	79.00	44.863	122.67	148.302	166.33	118.006	210.00	74.362	253.67	57.445
35.67	15.156	79.33	44.740	123.00	148.284	166.67	118.382	210.33	74.437	254.00	56.896
36.00	15.634	79.67	44.637	123.33	147.754	167.00	118.762	210.67	74.493	254.33	56.356
36.33	16.275	80.00	44.565	123.67	147.232	167.33	118.884	211.00	74.529	254.67	55.816
36.67	16.916	80.33	44.556	124.00	146.736	167.67	118.997	211.33	74.587	255.00	55.277
37.00	17.555	80.67	44.595	124.33	145.809	168.00	119.113	211.67	74.632	255.33	54.747
37.33	18.361	81.00	44.680	124.67	144.902	168.33	118.950	212.00	74.667	255.67	54.217
37.67	19.147	81.33	43.861	125.00	144.006	168.67	118.813	212.33	74.697	256.00	53.687
38.00	19.918	81.67	43.079	125.33	142.723	169.00	118.698	212.67	74.715	256.33	53.168
38.33	20.898	82.00	42.335	125.67	141.454	169.33	118.275	213.00	74.729	256.67	52.650
38.67	21.871	82.33	41.341	126.00	140.206	169.67	117.855	213.33	74.737	257.00	52.132
39.00	22.826	82.67	40.365	126.33	138.673	170.00	117.439	213.67	74.754	257.33	51.614
39.33	23.940	83.00	39.389	126.67	137.163	170.33	116.748	214.00	74.781	257.67	51.097
39.67	25.042	83.33	39.836	127.00	135.677	170.67	116.077	214.33	74.844	258.00	50.580
40.00	26.136	83.67	40.277	127.33	134.036	171.00	115.419	214.67	74.909	258.33	50.067
40.33	27.225	84.00	40.712	127.67	132.429	171.33	114.521	215.00	74.978	258.67	49.556
40.67	28.300	84.33	42.358	128.00	130.868	171.67	113.630	215.33	75.068	259.00	49.044
41.00	29.358	84.67	43.999	128.33	129.291	172.00	112.740	215.67	75.172	259.33	48.557
41.33	30.272	85.00	45.652	128.67	127.771	172.33	111.651	216.00	75.285	259.67	48.070
41.67	31.165	85.33	47.044	129.00	126.305	172.67	110.571	216.33	75.287	260.00	47.584
42.00	32.040	85.67	48.427	129.33	124.951	173.00	109.502	216.67	75.296	260.33	47.121
42.33	32.689	86.00	49.783	129.67	123.635	173.33	108.298	217.00	75.311	260.67	46.658
42.67	33.316	86.33	50.346	130.00	122.362	173.67	107.100	217.33	75.159	261.00	46.196
43.00	33.924	86.67	50.897	130.33	121.312	174.00	105.904	217.67	75.007	261.33	45.750
43.33	34.247	87.00	51.445	130.67	120.256	174.33	104.641	218.00	74.859	261.67	45.304

TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
262.00	44.857	305.67	7.032	349.33	6.544	393.00	6.088	436.67	5.671	480.33	5.325
262.33	43.785	306.00	7.029	349.67	6.538	393.33	6.086	437.00	5.668	480.67	5.321
262.67	42.709	306.33	7.024	350.00	6.533	393.67	6.083	437.33	5.666	481.00	5.317
263.00	41.634	306.67	7.020	350.33	6.528	394.00	6.081	437.67	5.663	481.33	5.315
263.33	37.095	307.00	7.015	350.67	6.524	394.33	6.079	438.00	5.660	481.67	5.313
263.67	32.542	307.33	7.009	351.00	6.519	394.67	6.076	438.33	5.657	482.00	5.311
264.00	27.989	307.67	7.003	351.33	6.517	395.00	6.074	438.67	5.654	482.33	5.310
264.33	23.977	308.00	6.996	351.67	6.515	395.33	6.071	439.00	5.651	482.67	5.308
264.67	19.967	308.33	6.992	352.00	6.513	395.67	6.068	439.33	5.648	483.00	5.306
265.00	15.957	308.67	6.987	352.33	6.511	396.00	6.065	439.67	5.644	483.33	5.304
265.33	14.454	309.00	6.982	352.67	6.508	396.33	6.062	440.00	5.641	483.67	5.302
265.67	12.961	309.33	6.980	353.00	6.506	396.67	6.059	440.33	5.637	484.00	5.300
266.00	11.469	309.67	6.978	353.33	6.503	397.00	6.056	440.67	5.632	484.33	5.298
266.33	10.798	310.00	6.976	353.67	6.500	397.33	6.052	441.00	5.628	484.67	5.296
266.67	10.130	310.33	6.973	354.00	6.497	397.67	6.049	441.33	5.624	485.00	5.294
267.00	9.462	310.67	6.971	354.33	6.493	398.00	6.045	441.67	5.621	485.33	5.292
267.33	9.136	311.00	6.968	354.67	6.490	398.33	6.040	442.00	5.617	485.67	5.290
267.67	8.810	311.33	6.965	355.00	6.486	398.67	6.035	442.33	5.615	486.00	5.288
268.00	8.486	311.67	6.962	355.33	6.482	399.00	6.030	442.67	5.613	486.33	5.286
268.33	8.316	312.00	6.959	355.67	6.478	399.33	6.026	443.00	5.611	486.67	5.284
268.67	8.147	312.33	6.955	356.00	6.474	399.67	6.022	443.33	5.609	487.00	5.281
269.00	7.979	312.67	6.951	356.33	6.469	400.00	6.018	443.67	5.606	487.33	5.278
269.33	7.883	313.00	6.947	356.67	6.464	400.33	6.016	444.00	5.604	487.67	5.274
269.67	7.788	313.33	6.943	357.00	6.458	400.67	6.014	444.33	5.602	488.00	5.270
270.00	7.694	313.67	6.939	357.33	6.454	401.00	6.012	444.67	5.599	488.33	5.267
270.33	7.645	314.00	6.934	357.67	6.450	401.33	6.009	445.00	5.597	488.67	5.263
270.67	7.597	314.33	6.928	358.00	6.445	401.67	6.007	445.33	5.595	489.00	5.260
271.00	7.549	314.67	6.922	358.33	6.443	402.00	6.004	445.67	5.592	489.33	5.258
271.33	7.524	315.00	6.916	358.67	6.441	402.33	6.002	446.00	5.590	489.67	5.256
271.67	7.498	315.33	6.912	359.00	6.439	402.67	5.999	446.33	5.587	490.00	5.254
272.00	7.473	315.67	6.907	359.33	6.436	403.00	5.996	446.67	5.585	490.33	5.252
272.33	7.459	316.00	6.902	359.67	6.434	403.33	5.993	447.00	5.582	490.67	5.250
272.67	7.445	316.33	6.900	360.00	6.431	403.67	5.990	447.33	5.578	491.00	5.248
273.00	7.431	316.67	6.899	360.33	6.428	404.00	5.987	447.67	5.573	491.33	5.246
273.33	7.423	317.00	6.897	360.67	6.426	404.33	5.983	448.00	5.569	491.67	5.244
273.67	7.414	317.33	6.894	361.00	6.423	404.67	5.980	448.33	5.565	492.00	5.242
274.00	7.406	317.67	6.892	361.33	6.419	405.00	5.976	448.67	5.561	492.33	5.240
274.33	7.397	318.00	6.889	361.67	6.416	405.33	5.971	449.00	5.557	492.67	5.238
274.67	7.388	318.33	6.886	362.00	6.412	405.67	5.966	449.33	5.555	493.00	5.237
275.00	7.379	318.67	6.883	362.33	6.408	406.00	5.962	449.67	5.553	493.33	5.234
275.33	7.372	319.00	6.880	362.67	6.404	406.33	5.958	450.00	5.550	493.67	5.232
275.67	7.365	319.33	6.877	363.00	6.401	406.67	5.954	450.33	5.549	494.00	5.230
276.00	7.359	319.67	6.873	363.33	6.395	407.00	5.950	450.67	5.547	494.33	5.228
276.33	7.356	320.00	6.869	363.67	6.390	407.33	5.947	451.00	5.545	494.67	5.226
276.67	7.352	320.33	6.865	364.00	6.385	407.67	5.945	451.33	5.543	495.00	5.224
277.00	7.349	320.67	6.861	364.33	6.380	408.00	5.943	451.67	5.541	495.33	5.220
277.33	7.345	321.00	6.857	364.67	6.376	408.33	5.941	452.00	5.539	495.67	5.216
277.67	7.341	321.33	6.851	365.00	6.372	408.67	5.938	452.33	5.536	496.00	5.213
278.00	7.337	321.67	6.845	365.33	6.370	409.00	5.936	452.67	5.534	496.33	5.209
278.33	7.332	322.00	6.839	365.67	6.368	409.33	5.933	453.00	5.532	496.67	5.206
278.67	7.327	322.33	6.834	366.00	6.365	409.67	5.930	453.33	5.530	497.00	5.202
279.00	7.323	322.67	6.829	366.33	6.363	410.00	5.928	453.67	5.528	497.33	5.200
279.33	7.316	323.00	6.825	366.67	6.360	410.33	5.924	454.00	5.526	497.67	5.198
279.67	7.310	323.33	6.823	367.00	6.358	410.67	5.921	454.33	5.523	498.00	5.196
280.00	7.303	323.67	6.820	367.33	6.355	411.00	5.918	454.67	5.521	498.33	5.195
280.33	7.298	324.00	6.818	367.67	6.352	411.33	5.915	455.00	5.519	498.67	5.193
280.67	7.293	324.33	6.816	368.00	6.349	411.67	5.911	455.33	5.514	499.00	5.191
281.00	7.288	324.67	6.813	368.33	6.346	412.00	5.908	455.67	5.510	499.33	5.189
281.33	7.287	325.00	6.811	368.67	6.342	412.33	5.903	456.00	5.506	499.67	5.187
281.67	7.285	325.33	6.808	369.00	6.339	412.67	5.898	456.33	5.503	500.00	5.185
282.00	7.283	325.67	6.804	369.33	6.335	413.00	5.894	456.67	5.499	500.33	5.183
282.33	7.281	326.00	6.801	369.67	6.331	413.33	5.890	457.00	5.495	500.67	5.181
282.67	7.279	326.33	6.798	370.00	6.328	413.67	5.886	457.33	5.493	501.00	5.179
283.00	7.276	326.67	6.794	370.33	6.322	414.00	5.882	457.67	5.491	501.33	5.177
283.33	7.274	327.00	6.790	370.67	6.317	414.33	5.880	458.00	5.489	501.67	5.175
283.67	7.271	327.33	6.786	371.00	6.312	414.67	5.877	458.33	5.487	502.00	5.173
284.00	7.268	327.67	6.782	371.33	6.308	415.00	5.875	458.67	5.485	502.33	5.171
284.33	7.265	328.00	6.778	371.67	6.303	415.33	5.873	459.00	5.483	502.67	5.169
284.67	7.261	328.33	6.772	372.00	6.299	415.67	5.870	459.33	5.481	503.00	5.167
285.00	7.258	328.67	6.767	372.33	6.297	416.00	5.868	459.67	5.479	503.33	5.163
285.33	7.253	329.00	6.761	372.67	6.295	416.33	5.865	460.00	5.477	503.67	5.159
285.67	7.249	329.33	6.756	373.00	6.293	416.67	5.863	460.33	5.475	504.00	5.156
286.00	7.245	329.67	6.752	373.33	6.290	417.00	5.860	460.67	5.473	504.33	5.152
286.33	7.239	330.00	6.747	373.67	6.288	417.33	5.857	461.00	5.471	504.67	5.149
286.67	7.233	330.33	6.745	374.00	6.285	417.67	5.854	461.33	5.469	505.00	5.146
287.00	7.227	330.67	6.743	374.33	6.282	418.00	5.850	461.67	5.467	505.33	5.144
287.33	7.222	331.00	6.741	374.67	6.280	418.33	5.847	462.00	5.465	505.67	5.142
287.67	7.217	331.33	6.739	375.00	6.277	418.67	5.844	462.33	5.463	506.00	5.140
288.00	7.213	331.67	6.736	375.33	6.273	419.00	5.840	462.67	5.460	506.33	5.138
288.33	7.211	332.00	6.734	375.67	6.270	419.33	5.836	463.00	5.458	506.67	5.136
288.67	7.209	332.33	6.731	376.00	6.267	419.67	5.831	463.33	5.454	507.00	5.134
289.00	7.208	332.67	6.728	376.33	6.263	420.00	5.826	463.67	5.450	507.33	5.132
289.33	7.206	333.00	6.725	376.67	6.259	420.33	5.822	464.00	5.446	507.67	5.130
289.67	7.203	333.33	6.721	377.00	6.255	420.67	5.818	464.33	5.443	508.00	5.129
290.00	7.201	333.67	6.717	377.33	6.250	421.00	5.814	464.67	5.439	508.33	5.127
290.33	7.199	334.00	6.714	377.67	6.245	421.33	5.812	465.00	5.435	508.67	5.125
290.67	7.196	334.33	6.710	378.00	6.240	421.67	5.810	465.33	5.433	509.00	5.123
291.00	7.193	334.67	6.706	378.33	6.236	422.00	5.807	465.67	5.431	509.33	5.121
291.33	7.190	335.00	6.701	378.67	6.232	422.33	5.805	466.00	5.429	509.67	5.119
291.67	7.186	335.33	6.696	379.00	6.227	422.67	5.802	466.33	5.427	510.00	5.117
292.00	7.183	335.67	6.690	379.33	6.225	423.00	5.800	466.67	5.425	510.33	5.115
292.33	7.179	336.00	6.684	379.67	6.223	423.33	5.797	467.00	5.424	510.67	5.112
292.67	7.175	336.33	6.680	380.00	6.221	423.67	5.794	467.33	5.422	511.00	5.110
293.00	7.170	336.67	6.675	380.33	6.219	424.00	5.791	467.67	5.420	511.33	5.107
293.33	7.164	337.00	6.671	380.67	6.217	424.33	5.788	468.00	5.418	511.67	5.103
293.67	7.158	337.33	6.669	381.00	6.214	424.67	5.785	468.33	5.416	512.00	5.100
294.00	7.152	337.67	6.667	381.33	6.212	425.00	5.782	468.67	5.414	512.33	5.096
294.33	7.148	338.00	6.665	381.67	6.209	425.33	5.779	469.00	5.412	512.67	5.093
294.67	7.143	338.33	6.662	382.00	6.206	425.67	5.776	469.33	5.410	513.00	5.089
295.00	7.139	338.67	6.660	382.33	6.203	426.00	5.772	469.67	5.408	513.33	5.088
295.33	7.137	339.00	6.657	382.67	6.200	426.33	5.768	470.00	5.406	513.67	5.086
295.67	7.135	339.33	6.654	383.00	6.196	426.67	5.763	470.33	5.403	514.00	5.084
296.00	7.133	339.67	6.651	383.33	6.193	427.00	5.759	470.67	5.401	514.33	5.082
296.33	7.131	340.00	6.648	383.67	6.189	427.33	5.755	471.00	5.398	514.67	5.080
296.67	7.129	340.33	6.644	384.00	6.186	427.67	5.751	471.33	5.395	515.00	5.078
297.00	7.127	340.67	6.641	384.33	6.181	428.00	5.747	471.67	5.391	515.33	5.076
297.33	7.124	341.00	6.637	384.67	6.176	428.33	5.745	472.00	5.387	515.67	5.075
297.67	7.121	341.33	6.633	385.00	6.170	428.67	5.742	472.33	5.383	516.00	5.073
298.00	7.118	341.67	6.629	385.33	6.166	429.00	5.740	472.67	5.380	516.33	5.071
298.33	7.115	342.00	6.625	385.67	6.162	429.33	5.738	473.00	5.376	516.67	5.069
298.67	7.111	342.33	6.619	386.00	6.158	429.67	5.735	473.33	5.374	517.00	5.067
299.00	7.107	342.67	6.614	386.33	6.156	430.00	5.732	473.67	5.372	517.33	5.065
299.33	7.103	343.00	6.608	386.67	6.154	430.33	5.730	474.00	5.370	517.67	5.063
299.67	7.099	343.33	6.604	387.00	6.152	430.67	5.727	474.33	5.368	518.00	5.061
300.00	7.094	343.67	6.599	387.33	6.149	431.00	5.724	474.67	5.366	518.33	5.059
300.33	7.088	344.00	6.595	387.67	6.147	431.33	5.721	475.00	5.364	518.67	5.057
300.67	7.082	344.33	6.593	388.00	6.144	431.67	5.718	475.33	5.363	519.00	5.054
301.00	7.076	344.67	6.591	388.33	6.141	432.00	5.715	475.67	5.361	519.33	5.051
301.33	7.071	345.00	6.588	388.67	6.138	432.33	5.712	476.00	5.359	519.67	5.047
301.67	7.066	345.33	6.586	389.00	6.136	432.67	5.709	476.33	5.357	520.00	5.044
302.00	7.061	345.67	6.583	389.33	6.132	433.00	5.706	476.67	5.355	520.33	5.041
302.33	7.059	346.00	6.581	389.67	6.129	433.33	5.701	477.00	5.353	520.67	5.037
302.67	7.057	346.33	6.578	390.00	6.126	433.67	5.697	477.33	5.351	521.00	5.034
303.00	7.055	346.67	6.575	390.33	6.122	434.00	5.693	477.67	5.349	521.33	5.032
303.33	7.053	347.00	6.572	390.67	6.119	434.33	5.689	478.00	5.347	521.67	5.030
303.67	7.051	347.33	6.568	391.00	6.115	434.67	5.686	478.33	5.344	522.00	5.028
304.00	7.048	347.67	6.565	391.33	6.110	435.00	5.682	478.67	5.342	522.33	5.026
304.33	7.045	348.00	6.561	391.67	6.105	435.33	5.680	479.00	5.340	522.67	5.025
304.67	7.043	348.33	6.557	392.00	6.100	435.67	5.678	479.33	5.336	523.00	5.023
305.00	7.040	348.67	6.553	392.33	6.096	436.00	5.676	479.67	5.332	523.33	5.021
305.33	7.036	349.00	6.549	392.67	6.092	436.33	5.673	480.00	5.328	523.67	5.019

TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
524.00	5.017	567.67	4.725	611.33	4.431	655.00	4.118	698.67	3.844	742.33	3.588
524.33	5.015	568.00	4.722	611.67	4.427	655.33	4.117	699.00	3.843	742.67	3.585
524.67	5.013	568.33	4.719	612.00	4.424	655.67	4.116	699.33	3.841	743.00	3.582
525.00	5.012	568.67	4.716	612.33	4.421	656.00	4.114	699.67	3.840	743.33	3.578
525.33	5.010	569.00	4.713	612.67	4.418	656.33	4.113	700.00	3.838	743.67	3.575
525.67	5.008	569.33	4.711	613.00	4.415	656.67	4.111	700.33	3.834	744.00	3.572
526.00	5.006	569.67	4.709	613.33	4.413	657.00	4.110	700.67	3.830	744.33	3.571
526.33	5.003	570.00	4.707	613.67	4.411	657.33	4.108	701.00	3.827	744.67	3.569
526.67	5.001	570.33	4.706	614.00	4.409	657.67	4.106	701.33	3.823	745.00	3.568
527.00	4.999	570.67	4.704	614.33	4.407	658.00	4.104	701.67	3.819	745.33	3.567
527.33	4.996	571.00	4.702	614.67	4.405	658.33	4.100	702.00	3.816	745.67	3.565
527.67	4.992	571.33	4.700	615.00	4.403	658.67	4.096	702.33	3.815	746.00	3.564
528.00	4.989	571.67	4.699	615.33	4.401	659.00	4.091	702.67	3.813	746.33	3.562
528.33	4.986	572.00	4.697	615.67	4.399	659.33	4.087	703.00	3.812	746.67	3.561
528.67	4.982	572.33	4.695	616.00	4.397	659.67	4.083	703.33	3.811	747.00	3.559
529.00	4.979	572.67	4.693	616.33	4.395	660.00	4.079	703.67	3.809	747.33	3.557
529.33	4.977	573.00	4.691	616.67	4.393	660.33	4.077	704.00	3.808	747.67	3.556
529.67	4.975	573.33	4.690	617.00	4.391	660.67	4.076	704.33	3.807	748.00	3.554
530.00	4.973	573.67	4.688	617.33	4.389	661.00	4.075	704.67	3.805	748.33	3.550
530.33	4.972	574.00	4.686	617.67	4.387	661.33	4.073	705.00	3.804	748.67	3.546
530.67	4.970	574.33	4.684	618.00	4.384	661.67	4.072	705.33	3.803	749.00	3.542
531.00	4.968	574.67	4.682	618.33	4.381	662.00	4.071	705.67	3.801	749.33	3.539
531.33	4.966	575.00	4.680	618.67	4.378	662.33	4.070	706.00	3.800	749.67	3.535
531.67	4.964	575.33	4.677	619.00	4.375	662.67	4.068	706.33	3.798	750.00	3.531
532.00	4.963	575.67	4.674	619.33	4.372	663.00	4.067	706.67	3.797	750.33	3.529
532.33	4.961	576.00	4.670	619.67	4.369	663.33	4.066	707.00	3.795	750.67	3.526
532.67	4.959	576.33	4.667	620.00	4.366	663.67	4.064	707.33	3.792	751.00	3.524
533.00	4.957	576.67	4.665	620.33	4.364	664.00	4.063	707.67	3.788	751.33	3.521
533.33	4.955	577.00	4.662	620.67	4.362	664.33	4.061	708.00	3.784	751.67	3.518
533.67	4.953	577.33	4.660	621.00	4.360	664.67	4.060	708.33	3.781	752.00	3.515
534.00	4.951	577.67	4.658	621.33	4.358	665.00	4.058	708.67	3.777	752.33	3.510
534.33	4.949	578.00	4.656	621.67	4.356	665.33	4.054	709.00	3.774	752.67	3.505
534.67	4.947	578.33	4.654	622.00	4.354	665.67	4.050	709.33	3.772	753.00	3.500
535.00	4.945	578.67	4.653	622.33	4.352	666.00	4.045	709.67	3.771	753.33	3.495
535.33	4.941	579.00	4.651	622.67	4.350	666.33	4.041	710.00	3.770	753.67	3.490
535.67	4.938	579.33	4.649	623.00	4.348	666.67	4.037	710.33	3.769	754.00	3.485
536.00	4.934	579.67	4.647	623.33	4.346	667.00	4.033	710.67	3.767	754.33	3.482
536.33	4.931	580.00	4.646	623.67	4.344	667.33	4.032	711.00	3.766	754.67	3.478
536.67	4.928	580.33	4.644	624.00	4.342	667.67	4.031	711.33	3.765	755.00	3.475
537.00	4.925	580.67	4.642	624.33	4.340	668.00	4.030	711.67	3.763	755.33	3.469
537.33	4.923	581.00	4.640	624.67	4.338	668.33	4.028	712.00	3.762	755.67	3.463
537.67	4.921	581.33	4.638	625.00	4.336	668.67	4.027	712.33	3.761	756.00	3.457
538.00	4.919	581.67	4.636	625.33	4.333	669.00	4.026	712.67	3.759	756.33	3.452
538.33	4.917	582.00	4.635	625.67	4.329	669.33	4.025	713.00	3.758	756.67	3.446
538.67	4.916	582.33	4.633	626.00	4.326	669.67	4.023	713.33	3.756	757.00	3.440
539.00	4.914	582.67	4.631	626.33	4.323	670.00	4.022	713.67	3.755	757.33	3.434
539.33	4.912	583.00	4.628	626.67	4.320	670.33	4.021	714.00	3.753	757.67	3.429
539.67	4.910	583.33	4.625	627.00	4.317	670.67	4.019	714.33	3.750	758.00	3.423
540.00	4.908	583.67	4.622	627.33	4.315	671.00	4.018	714.67	3.746	758.33	3.417
540.33	4.906	584.00	4.619	627.67	4.313	671.33	4.016	715.00	3.742	758.67	3.412
540.67	4.905	584.33	4.616	628.00	4.311	671.67	4.015	715.33	3.739	759.00	3.406
541.00	4.903	584.67	4.613	628.33	4.309	672.00	4.013	715.67	3.736	759.33	3.400
541.33	4.901	585.00	4.610	628.67	4.307	672.33	4.009	716.00	3.732	759.67	3.394
541.67	4.899	585.33	4.608	629.00	4.305	672.67	4.005	716.33	3.731	760.00	3.388
542.00	4.897	585.67	4.606	629.33	4.304	673.00	4.001	716.67	3.729	760.33	3.382
542.33	4.895	586.00	4.604	629.67	4.302	673.33	3.997	717.00	3.728	760.67	3.376
542.67	4.893	586.33	4.603	630.00	4.300	673.67	3.993	717.33	3.727	761.00	3.370
543.00	4.890	586.67	4.601	630.33	4.298	674.00	3.989	717.67	3.726	761.33	3.364
543.33	4.887	587.00	4.599	630.67	4.296	674.33	3.988	718.00	3.724	761.67	3.358
543.67	4.884	587.33	4.597	631.00	4.294	674.67	3.987	718.33	3.723	762.00	3.352
544.00	4.881	587.67	4.595	631.33	4.292	675.00	3.985	718.67	3.722	762.33	3.345
544.33	4.877	588.00	4.594	631.67	4.289	675.33	3.984	719.00	3.720	762.67	3.339
544.67	4.874	588.33	4.592	632.00	4.287	675.67	3.983	719.33	3.719	763.00	3.332
545.00	4.871	588.67	4.590	632.33	4.284	676.00	3.981	719.67	3.718	763.33	3.326
545.33	4.869	589.00	4.588	632.67	4.281	676.33	3.980	720.00	3.716	763.67	3.319
545.67	4.867	589.33	4.586	633.00	4.278	676.67	3.979	720.33	3.715	764.00	3.313
546.00	4.865	589.67	4.584	633.33	4.275	677.00	3.978	720.67	3.714	764.33	3.306
546.33	4.864	590.00	4.582	633.67	4.272	677.33	3.976	721.00	3.712	764.67	3.299
546.67	4.862	590.33	4.579	634.00	4.269	677.67	3.975	721.33	3.709	765.00	3.293
547.00	4.860	590.67	4.575	634.33	4.267	678.00	3.973	721.67	3.705	765.33	3.286
547.33	4.858	591.00	4.572	634.67	4.265	678.33	3.972	722.00	3.702	765.67	3.279
547.67	4.857	591.33	4.569	635.00	4.263	678.67	3.970	722.33	3.699	766.00	3.272
548.00	4.855	591.67	4.566	635.33	4.261	679.00	3.969	722.67	3.695	766.33	3.266
548.33	4.853	592.00	4.563	635.67	4.259	679.33	3.965	723.00	3.692	766.67	3.259
548.67	4.851	592.33	4.561	636.00	4.258	679.67	3.961	723.33	3.691	767.00	3.252
549.00	4.849	592.67	4.559	636.33	4.256	680.00	3.956	723.67	3.690	767.33	3.245
549.33	4.847	593.00	4.557	636.67	4.254	680.33	3.953	724.00	3.688	767.67	3.238
549.67	4.845	593.33	4.555	637.00	4.252	680.67	3.949	724.33	3.687	768.00	3.231
550.00	4.843	593.67	4.554	637.33	4.250	681.00	3.945	724.67	3.686	768.33	3.224
550.33	4.841	594.00	4.552	637.67	4.248	681.33	3.944	725.00	3.684	768.67	3.218
550.67	4.839	594.33	4.550	638.00	4.246	681.67	3.943	725.33	3.683	769.00	3.211
551.00	4.837	594.67	4.548	638.33	4.244	682.00	3.941	725.67	3.682	769.33	3.204
551.33	4.834	595.00	4.546	638.67	4.242	682.33	3.940	726.00	3.680	769.67	3.197
551.67	4.831	595.33	4.544	639.00	4.240	682.67	3.939	726.33	3.679	770.00	3.190
552.00	4.827	595.67	4.542	639.33	4.237	683.00	3.937	726.67	3.678	770.33	3.183
552.33	4.824	596.00	4.540	639.67	4.234	683.33	3.936	727.00	3.676	770.67	3.176
552.67	4.821	596.33	4.538	640.00	4.231	683.67	3.935	727.33	3.675	771.00	3.169
553.00	4.818	596.67	4.535	640.33	4.228	684.00	3.933	727.67	3.673	771.33	3.162
553.33	4.816	597.00	4.533	640.67	4.225	684.33	3.932	728.00	3.672	771.67	3.156
553.67	4.814	597.33	4.530	641.00	4.222	684.67	3.931	728.33	3.669	772.00	3.149
554.00	4.812	597.67	4.527	641.33	4.220	685.00	3.929	728.67	3.665	772.33	3.142
554.33	4.811	598.00	4.524	641.67	4.218	685.33	3.928	729.00	3.662	772.67	3.135
554.67	4.809	598.33	4.521	642.00	4.216	685.67	3.926	729.33	3.659	773.00	3.128
555.00	4.807	598.67	4.517	642.33	4.214	686.00	3.925	729.67	3.656	773.33	3.121
555.33	4.805	599.00	4.514	642.67	4.212	686.33	3.921	730.00	3.652	773.67	3.115
555.67	4.803	599.33	4.512	643.00	4.210	686.67	3.917	730.33	3.651	774.00	3.108
556.00	4.802	599.67	4.510	643.33	4.208	687.00	3.913	730.67	3.650	774.33	3.101
556.33	4.800	600.00	4.508	643.67	4.205	687.33	3.909	731.00	3.649	774.67	3.094
556.67	4.798	600.33	4.506	644.00	4.203	687.67	3.905	731.33	3.647	775.00	3.087
557.00	4.796	600.67	4.504	644.33	4.201	688.00	3.902	731.67	3.646	775.33	3.081
557.33	4.794	601.00	4.502	644.67	4.199	688.33	3.900	732.00	3.645	775.67	3.074
557.67	4.792	601.33	4.500	645.00	4.196	688.67	3.899	732.33	3.643	776.00	3.067
558.00	4.790	601.67	4.498	645.33	4.193	689.00	3.898	732.67	3.642	776.33	3.061
558.33	4.788	602.00	4.496	645.67	4.190	689.33	3.896	733.00	3.641	776.67	3.054
558.67	4.786	602.33	4.494	646.00	4.186	689.67	3.895	733.33	3.639	777.00	3.047
559.00	4.784	602.67	4.492	646.33	4.183	690.00	3.894	733.67	3.638	777.33	3.041
559.33	4.781	603.00	4.490	646.67	4.180	690.33	3.892	734.00	3.636	777.67	3.034
559.67	4.778	603.33	4.488	647.00	4.176	690.67	3.891	734.33	3.635	778.00	3.027
560.00	4.775	603.67	4.486	647.33	4.174	691.00	3.890	734.67	3.633	778.33	3.021
560.33	4.771	604.00	4.483	647.67	4.172	691.33	3.889	735.00	3.632	778.67	3.014
560.67	4.768	604.33	4.480	648.00	4.170	691.67	3.887	735.33	3.629	779.00	3.007
561.00	4.765	604.67	4.477	648.33	4.168	692.00	3.886	735.67	3.625	779.33	3.001
561.33	4.763	605.00	4.474	648.67	4.166	692.33	3.884	736.00	3.622	779.67	2.994
561.67	4.762	605.33	4.471	649.00	4.164	692.67	3.883	736.33	3.619	780.00	2.988
562.00	4.760	605.67	4.468	649.33	4.162	693.00	3.881	736.67	3.615	780.33	2.981
562.33	4.758	606.00	4.464	649.67	4.160	693.33	3.877	737.00	3.612	780.67	2.975
562.67	4.756	606.33	4.462	650.00	4.158	693.67	3.873	737.33	3.611	781.00	2.968
563.00	4.754	606.67	4.460	650.33	4.156	694.00	3.869	737.67	3.610	781.33	2.962
563.33	4.753	607.00	4.458	650.67	4.154	694.33	3.866	738.00	3.608	781.67	2.955
563.67	4.751	607.33	4.456	651.00	4.152	694.67	3.862	738.33	3.607	782.00	2.949
564.00	4.749	607.67	4.454	651.33	4.148	695.00	3.859	738.67	3.606	782.33	2.942
564.33	4.747	608.00	4.452	651.67	4.143	695.33	3.857	739.00	3.604	782.67	2.936
564.67	4.745	608.33	4.450	652.00	4.139	695.67	3.856	739.33	3.603	783.00	2.929
565.00	4.744	608.67	4.448	652.33	4.135	696.00	3.855	739.67	3.602	783.33	2.923
565.33	4.742	609.00	4.446	652.67	4.131	696.33	3.853	740.00	3.600	783.67	2.917
565.67	4.740	609.33	4.444	653.00	4.127	696.67	3.852	740.33	3.599	784.00	2.910
566.00	4.738	609.67	4.442	653.33	4.125	697.00	3.851	740.67	3.597	784.33	2.904
566.33	4.736	610.00	4.440	653.67	4.124	697.33	3.849	741.00	3.596	784.67	2.897
566.67	4.734	610.33	4.438	654.00	4.122	697.67	3.848	741.33	3.594	785.00	2.891
567.00	4.732	610.67	4.436	654.33	4.121	698.00	3.847	741.67	3.593	785.33	2.885
567.33	4.728	611.00	4.434	654.67	4.120	698.33	3.845	742.00	3.592	785.67	2.879

TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
786.00	2.872	829.67	2.171	873.33	0.093	917.00	0.000
786.33	2.866	830.00	2.165	873.67	0.089	917.33	0.000
786.67	2.860	830.33	2.156	874.00	0.086	917.67	0.000
787.00	2.853	830.67	2.148	874.33	0.082	918.00	0.000
787.33	2.847	831.00	2.140	874.67	0.079	918.33	0.000
787.67	2.841	831.33	2.132	875.00	0.076	918.67	0.000
788.00	2.835	831.67	2.123	875.33	0.073	919.00	0.000
788.33	2.829	832.00	2.115	875.67	0.070	919.33	0.000
788.67	2.823	832.33	2.106	876.00	0.067	919.67	0.000
789.00	2.816	832.67	2.098	876.33	0.065	920.00	0.000
789.33	2.810	833.00	2.089	876.67	0.062	920.33	0.000
789.67	2.804	833.33	2.079	877.00	0.059	920.67	0.000
790.00	2.798	833.67	2.070	877.33	0.057	921.00	0.000
790.33	2.792	834.00	2.060	877.67	0.055	921.33	0.000
790.67	2.786	834.33	2.048	878.00	0.052	921.67	0.000
791.00	2.780	834.67	2.036	878.33	0.050	922.00	0.000
791.33	2.774	835.00	2.025	878.67	0.048	922.33	0.000
791.67	2.768	835.33	2.011	879.00	0.046	922.67	0.000
792.00	2.762	835.67	1.997	879.33	0.044	923.00	0.000
792.33	2.756	836.00	1.983	879.67	0.043	923.33	0.000
792.67	2.750	836.33	1.966	880.00	0.041	923.67	0.000
793.00	2.744	836.67	1.950	880.33	0.039	924.00	0.000
793.33	2.738	837.00	1.934	880.67	0.038	924.33	0.000
793.67	2.732	837.33	1.916	881.00	0.036	924.67	0.000
794.00	2.726	837.67	1.897	881.33	0.034	925.00	0.000
794.33	2.720	838.00	1.879	881.67	0.033	925.33	0.000
794.67	2.714	838.33	1.859	882.00	0.032	925.67	0.000
795.00	2.709	838.67	1.839	882.33	0.030	926.00	0.000
795.33	2.703	839.00	1.819	882.67	0.029	926.33	0.000
795.67	2.697	839.33	1.797	883.00	0.028	926.67	0.000
796.00	2.691	839.67	1.775	883.33	0.027	927.00	0.000
796.33	2.685	840.00	1.754	883.67	0.026	927.33	0.000
796.67	2.680	840.33	1.731	884.00	0.024	927.67	0.000
797.00	2.674	840.67	1.708	884.33	0.023	928.00	0.000
797.33	2.668	841.00	1.684	884.67	0.023	928.33	0.000
797.67	2.662	841.33	1.660	885.00	0.022	928.67	0.000
798.00	2.657	841.67	1.636	885.33	0.021	929.00	0.000
798.33	2.651	842.00	1.612	885.67	0.020	929.33	0.000
798.67	2.645	842.33	1.587	886.00	0.019	929.67	0.000
799.00	2.640	842.67	1.562	886.33	0.018	930.00	0.000
799.33	2.634	843.00	1.537	886.67	0.017	930.33	0.000
799.67	2.628	843.33	1.511	887.00	0.017	930.67	0.000
800.00	2.623	843.67	1.486	887.33	0.016	931.00	0.000
800.33	2.617	844.00	1.461	887.67	0.015	931.33	0.000
800.67	2.611	844.33	1.436	888.00	0.015	931.67	0.000
801.00	2.606	844.67	1.411	888.33	0.014	932.00	0.000
801.33	2.600	845.00	1.386	888.67	0.013	932.33	0.000
801.67	2.595	845.33	1.361	889.00	0.013	932.67	0.000
802.00	2.589	845.67	1.336	889.33	0.012	933.00	0.000
802.33	2.584	846.00	1.311	889.67	0.012	933.33	0.000
802.67	2.578	846.33	1.286	890.00	0.011	933.67	0.000
803.00	2.573	846.67	1.261	890.33	0.011	934.00	0.000
803.33	2.567	847.00	1.236	890.67	0.010	934.33	0.000
803.67	2.562	847.33	1.212	891.00	0.010	934.67	0.000
804.00	2.556	847.67	1.188	891.33	0.009	935.00	0.000
804.33	2.551	848.00	1.163	891.67	0.009	935.33	0.000
804.67	2.545	848.33	1.139	892.00	0.009	935.67	0.000
805.00	2.540	848.67	1.115	892.33	0.008	936.00	0.000
805.33	2.535	849.00	1.090	892.67	0.008	936.33	0.000
805.67	2.529	849.33	1.066	893.00	0.008	936.67	0.000
806.00	2.524	849.67	1.041	893.33	0.007	937.00	0.000
806.33	2.518	850.00	1.017	893.67	0.007	937.33	0.000
806.67	2.513	850.33	0.993	894.00	0.007	937.67	0.000
807.00	2.508	850.67	0.969	894.33	0.006	938.00	0.000
807.33	2.502	851.00	0.944	894.67	0.006	938.33	0.000
807.67	2.497	851.33	0.921	895.00	0.006	938.67	0.000
808.00	2.492	851.67	0.897	895.33	0.006	939.00	0.000
808.33	2.487	852.00	0.874	895.67	0.005	939.33	0.000
808.67	2.481	852.33	0.851	896.00	0.005	939.67	0.000
809.00	2.476	852.67	0.828	896.33	0.005	940.00	0.000
809.33	2.471	853.00	0.805	896.67	0.005	940.33	0.000
809.67	2.466	853.33	0.783	897.00	0.004	940.67	0.000
810.00	2.460	853.67	0.762	897.33	0.004	941.00	0.000
810.33	2.455	854.00	0.740	897.67	0.004	941.33	0.000
810.67	2.450	854.33	0.719	898.00	0.004	941.67	0.000
811.00	2.445	854.67	0.698	898.33	0.004	942.00	0.000
811.33	2.440	855.00	0.677	898.67	0.004	942.33	0.000
811.67	2.434	855.33	0.658	899.00	0.003	942.67	0.000
812.00	2.429	855.67	0.638	899.33	0.003	943.00	0.000
812.33	2.424	856.00	0.618	899.67	0.003	943.33	0.000
812.67	2.419	856.33	0.600	900.00	0.003	943.67	0.000
813.00	2.414	856.67	0.581	900.33	0.003	944.00	0.000
813.33	2.409	857.00	0.563	900.67	0.003	944.33	0.000
813.67	2.404	857.33	0.546	901.00	0.003	944.67	0.000
814.00	2.399	857.67	0.529	901.33	0.003	945.00	0.000
814.33	2.394	858.00	0.511	901.67	0.002	945.33	0.000
814.67	2.389	858.33	0.495	902.00	0.002	945.67	0.000
815.00	2.384	858.67	0.479	902.33	0.002	946.00	0.000
815.33	2.379	859.00	0.463	902.67	0.002	946.33	0.000
815.67	2.374	859.33	0.448	903.00	0.002	946.67	0.000
816.00	2.369	859.67	0.434	903.33	0.002	947.00	0.000
816.33	2.364	860.00	0.419	903.67	0.002	947.33	0.000
816.67	2.359	860.33	0.405	904.00	0.002	947.67	0.000
817.00	2.355	860.67	0.391	904.33	0.002	948.00	0.000
817.33	2.350	861.00	0.378	904.67	0.002	948.33	0.000
817.67	2.345	861.33	0.365	905.00	0.002	948.67	0.000
818.00	2.340	861.67	0.353	905.33	0.001	949.00	0.000
818.33	2.335	862.00	0.340	905.67	0.001	949.33	0.000
818.67	2.330	862.33	0.329	906.00	0.001	949.67	0.000
819.00	2.326	862.67	0.317	906.33	0.001	950.00	0.000
819.33	2.321	863.00	0.306	906.67	0.001	950.33	0.000
819.67	2.316	863.33	0.295	907.00	0.001	950.67	0.000
820.00	2.311	863.67	0.285	907.33	0.001	951.00	0.000
820.33	2.307	864.00	0.274	907.67	0.001	951.33	0.000
820.67	2.302	864.33	0.265	908.00	0.001	951.67	0.000
821.00	2.297	864.67	0.255	908.33	0.001	952.00	0.000
821.33	2.292	865.00	0.245	908.67	0.001	952.33	0.000
821.67	2.288	865.33	0.237	909.00	0.001	952.67	0.000
822.00	2.283	865.67	0.228	909.33	0.001	953.00	0.000
822.33	2.278	866.00	0.220	909.67	0.001	953.33	0.000
822.67	2.274	866.33	0.212	910.00	0.001	953.67	0.000
823.00	2.269	866.67	0.204	910.33	0.001	954.00	0.000
823.33	2.265	867.00	0.196	910.67	0.001	954.33	0.000
823.67	2.260	867.33	0.189	911.00	0.001	954.67	0.000
824.00	2.255	867.67	0.182	911.33	0.001	955.00	0.000
824.33	2.251	868.00	0.175	911.67	0.001	955.33	0.000
824.67	2.246	868.33	0.168	912.00	0.001	955.67	0.000
825.00	2.241	868.67	0.162	912.33	0.001	956.00	0.000
825.33	2.237	869.00	0.156	912.67	0.001	956.33	0.000
825.67	2.232	869.33	0.150	913.00	0.001	956.67	0.000
826.00	2.228	869.67	0.144	913.33	0.001	957.00	0.000
826.33	2.223	870.00	0.138	913.67	0.001	957.33	0.000
826.67	2.218	870.33	0.133	914.00	0.000	957.67	0.000
827.00	2.214	870.67	0.128	914.33	0.000	958.00	0.000
827.33	2.209	871.00	0.123	914.67	0.000	958.33	0.000
827.67	2.204	871.33	0.118	915.00	0.000	958.67	0.000
828.00	2.199	871.67	0.114	915.33	0.000	959.00	0.000
828.33	2.194	872.00	0.109	915.67	0.000	959.33	0.000
828.67	2.189	872.33	0.105	916.00	0.000	959.67	0.000
829.00	2.184	872.67	0.101	916.33	0.000	960.00	0.000
829.33	2.177	873.00	0.097	916.67	0.000	960.33	0.000

S_N5A (JR SPRING)



Hydrograph Statistics:

Legend	Filename & Comment	Time Step (min)	Drainage Area (ha)	Peak Flow (cms)	Time to Peak (hrs)	Runoff Volume (mm)	Runoff Volume (cu.m)	Duration of flow (hrs)	Average flow (cms)
——△——	H-S_N5A.100 : S_N5A	20.00	46656.00	171.781	139.000	160.82	7.503E+07	253.000	82.381

Hydrograph Table:

Hydrograph Filename : Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\JRSPRI~1\H-S_N5A.100
Comment in file : S_N5A

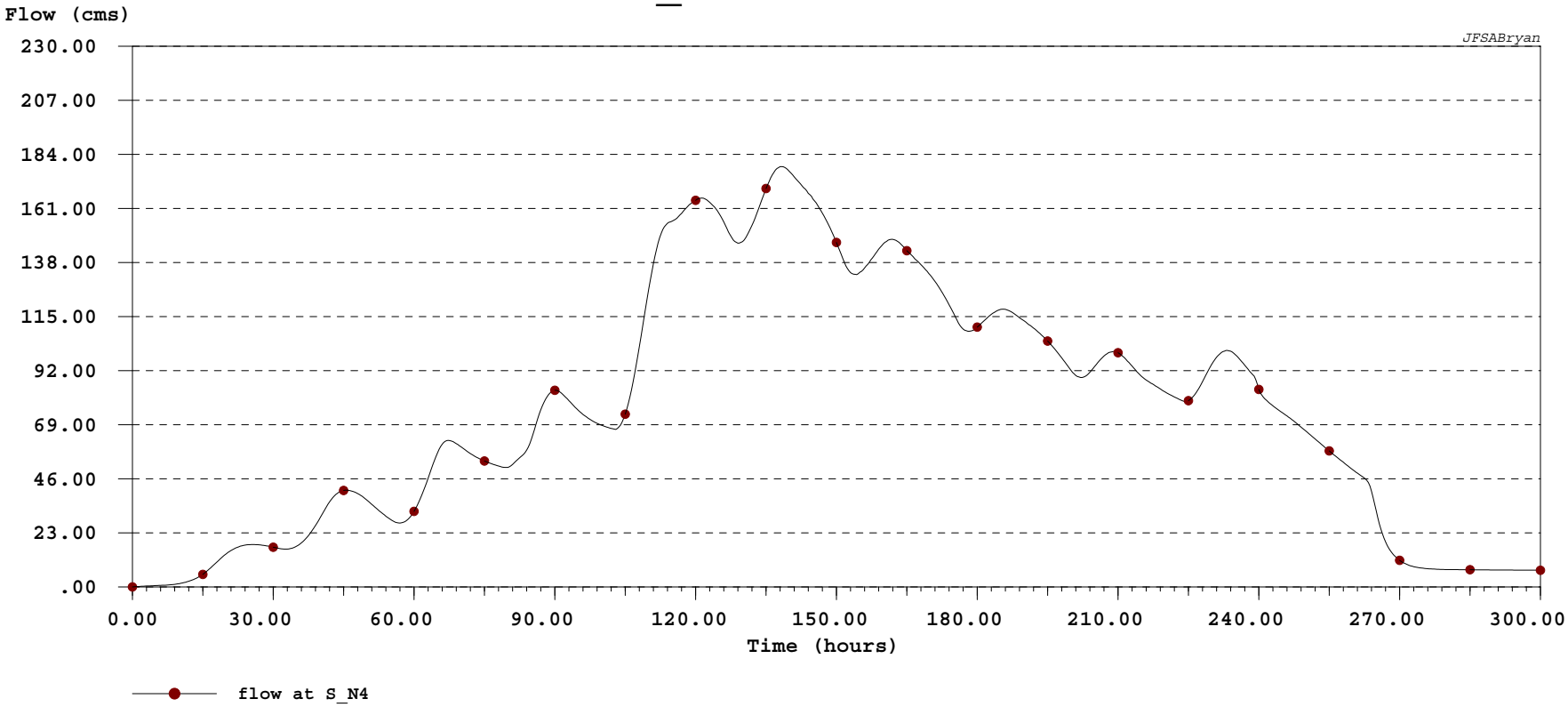
TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
0.00	0.000	43.67	40.597	87.33	74.219	131.00	141.757	174.67	113.037	218.33	82.685
0.33	0.084	44.00	40.825	87.67	75.373	131.33	142.737	175.00	111.731	218.67	82.319
0.67	0.229	44.33	40.955	88.00	76.484	131.67	143.715	175.33	110.401	219.00	81.852
1.00	0.406	44.67	40.981	88.33	77.334	132.00	144.938	175.67	109.102	219.33	81.351
1.33	0.511	45.00	40.906	88.67	78.069	132.33	146.322	176.00	107.651	219.67	81.048
1.67	0.562	45.33	40.772	89.00	78.659	132.67	147.806	176.33	106.533	220.00	80.674
2.00	0.591	45.67	40.557	89.33	79.000	133.00	149.388	176.67	105.799	220.33	80.203
2.33	0.607	46.00	40.285	89.67	79.289	133.33	151.057	177.00	104.990	220.67	79.923
2.67	0.618	46.33	40.010	90.00	79.485	133.67	152.722	177.33	104.413	221.00	79.614
3.00	0.627	46.67	39.660	90.33	79.383	134.00	154.527	177.67	104.061	221.33	79.243
3.33	0.636	47.00	39.279	90.67	79.108	134.33	156.218	178.00	103.574	221.67	78.992
3.67	0.645	47.33	38.883	91.00	78.840	134.67	158.017	178.33	103.547	222.00	78.638
4.00	0.656	47.67	38.445	91.33	78.394	135.00	159.880	178.67	103.558	222.33	78.272
4.33	0.668	48.00	37.987	91.67	77.867	135.33	161.428	179.00	103.515	222.67	78.091
4.67	0.682	48.33	37.493	92.00	77.461	135.67	163.038	179.33	103.794	223.00	77.769
5.00	0.698	48.67	36.981	92.33	76.864	136.00	164.761	179.67	104.167	223.33	77.364
5.33	0.716	49.00	36.438	92.67	76.235	136.33	166.066	180.00	104.551	223.67	77.192
5.67	0.736	49.33	35.883	93.00	75.605	136.67	167.264	180.33	105.007	224.00	76.965
6.00	0.759	49.67	35.296	93.33	74.951	137.00	168.635	180.67	105.543	224.33	76.836
6.33	0.783	50.00	34.681	93.67	74.331	137.33	169.470	181.00	105.999	224.67	76.936
6.67	0.810	50.33	34.063	94.00	73.686	137.67	170.373	181.33	106.531	225.00	77.066
7.00	0.839	50.67	33.434	94.33	73.076	138.00	170.951	181.67	107.172	225.33	77.461
7.33	0.888	51.00	32.795	94.67	72.527	138.33	171.270	182.00	107.712	225.67	77.976
7.67	0.951	51.33	32.171	95.00	71.981	138.67	171.589	182.33	108.307	226.00	78.352
8.00	1.023	51.67	31.565	95.33	71.459	139.00	171.781	182.67	108.923	226.33	79.077
8.33	1.109	52.00	30.966	95.67	70.973	139.33	171.647	183.00	109.410	226.67	79.921
8.67	1.208	52.33	30.388	96.00	70.440	139.67	171.365	183.33	109.888	227.00	80.776
9.00	1.313	52.67	29.833	96.33	70.148	140.00	171.125	183.67	110.475	227.33	81.760
9.33	1.435	53.00	29.291	96.67	69.780	140.33	170.746	184.00	110.972	227.67	82.819
9.67	1.573	53.33	28.755	97.00	69.264	140.67	170.275	184.33	111.377	228.00	83.905
10.00	1.715	53.67	28.223	97.33	68.960	141.00	169.786	184.67	111.848	228.33	85.012
10.33	1.869	54.00	27.703	97.67	68.655	141.33	169.289	185.00	112.320	228.67	86.132
10.67	2.034	54.33	27.217	98.00	68.276	141.67	168.744	185.33	112.435	229.00	87.258
11.00	2.208	54.67	26.773	98.33	68.014	142.00	168.144	185.67	112.569	229.33	88.318
11.33	2.399	55.00	26.358	98.67	67.826	142.33	167.588	186.00	112.915	229.67	89.324
11.67	2.613	55.33	26.005	99.00	67.550	142.67	166.944	186.33	112.934	230.00	90.360
12.00	2.844	55.67	25.709	99.33	67.248	143.00	166.449	186.67	112.854	230.33	91.244
12.33	3.107	56.00	25.442	99.67	67.025	143.33	165.782	187.00	112.830	230.67	92.063
12.67	3.414	56.33	25.303	100.00	66.797	143.67	164.765	187.33	112.670	231.00	92.885
13.00	3.765	56.67	25.294	100.33	66.675	144.00	163.976	187.67	112.454	231.33	93.532
13.33	4.155	57.00	25.338	100.67	66.489	144.33	163.480	188.00	112.253	231.67	94.065
13.67	4.540	57.33	25.526	101.00	66.215	144.67	162.598	188.33	111.975	232.00	94.724
14.00	4.962	57.67	25.858	101.33	66.028	145.00	161.422	188.67	111.656	232.33	94.989
14.33	5.499	58.00	26.261	101.67	65.840	145.33	160.711	189.00	111.325	232.67	95.213
14.67	6.130	58.33	26.828	102.00	65.705	145.67	159.628	189.33	110.973	233.00	95.531
15.00	6.848	58.67	27.575	102.33	65.586	146.00	158.436	189.67	110.568	233.33	95.510
15.33	7.640	59.00	28.419	102.67	65.443	146.33	157.329	190.00	110.257	233.67	95.417
15.67	8.379	59.33	29.421	103.00	65.357	146.67	156.191	190.33	109.828	234.00	95.384
16.00	9.036	59.67	30.610	103.33	65.723	147.00	154.987	190.67	109.203	234.33	95.056
16.33	9.738	60.00	31.883	103.67	66.354	147.33	153.769	191.00	108.719	234.67	94.580
16.67	10.456	60.33	33.228	104.00	67.035	147.67	152.386	191.33	108.415	235.00	94.258
17.00	11.139	60.67	34.707	104.33	68.116	148.00	150.987	191.67	107.918	235.33	93.739
17.33	11.774	61.00	36.302	104.67	69.513	148.33	149.567	192.00	107.249	235.67	93.106
17.67	12.396	61.33	37.994	105.00	71.062	148.67	148.052	192.33	106.820	236.00	92.468
18.00	13.019	61.67	39.827	105.33	73.047	149.00	146.457	192.67	106.232	236.33	91.827
18.33	13.606	62.00	41.741	105.67	75.366	149.33	144.895	193.00	105.493	236.67	91.175
18.67	14.187	62.33	43.637	106.00	77.726	149.67	143.187	193.33	105.016	237.00	90.498
19.00	14.761	62.67	45.601	106.33	80.492	150.00	141.425	193.67	104.361	237.33	89.789
19.33	15.263	63.00	47.664	106.67	83.469	150.33	139.675	194.00	103.629	237.67	89.083
19.67	15.714	63.33	49.644	107.00	86.496	150.67	137.886	194.33	102.949	238.00	88.413
20.00	16.129	63.67	51.527	107.33	89.814	151.00	136.165	194.67	102.268	238.33	87.802
20.33	16.497	64.00	53.405	107.67	93.250	151.33	134.351	195.00	101.550	238.67	87.219
20.67	16.812	64.33	55.135	108.00	96.738	151.67	132.774	195.33	100.804	239.00	86.614
21.00	17.079	64.67	56.704	108.33	100.344	152.00	131.144	195.67	99.984	239.33	84.939
21.33	17.299	65.00	58.228	108.67	104.024	152.33	129.801	196.00	99.159	239.67	82.575
21.67	17.474	65.33	59.452	109.00	107.756	152.67	128.933	196.33	98.338	240.00	80.285
22.00	17.622	65.67	60.291	109.33	111.396	153.00	127.948	196.67	97.482	240.33	79.209
22.33	17.735	66.00	60.959	109.67	114.959	153.33	127.267	197.00	96.590	240.67	78.780
22.67	17.823	66.33	61.344	110.00	118.543	153.67	126.884	197.33	95.717	241.00	78.209
23.00	17.891	66.67	61.399	110.33	121.880	154.00	126.337	197.67	94.812	241.33	77.884
23.33	17.937	67.00	61.304	110.67	125.108	154.33	126.271	198.00	93.893	241.67	77.454
23.67	17.962	67.33	61.038	111.00	128.388	154.67	126.531	198.33	92.980	242.00	76.885
24.00	17.955	67.67	60.642	111.33	131.170	155.00	126.674	198.67	92.057	242.33	76.560
24.33	17.934	68.00	60.257	111.67	133.686	155.33	126.871	199.00	91.121	242.67	76.116
24.67	17.895	68.33	59.791	112.00	136.265	155.67	127.394	199.33	90.209	243.00	75.607
25.00	17.838	68.67	59.301	112.33	138.256	156.00	127.990	199.67	89.300	243.33	75.160
25.33	17.772	69.00	58.788	112.67	139.947	156.33	128.622	200.00	88.391	243.67	74.704
25.67	17.692	69.33	58.269	113.00	141.701	156.67	129.244	200.33	87.637	244.00	74.266
26.00	17.606	69.67	57.751	113.33	142.983	157.00	130.065	200.67	86.957	244.33	73.787
26.33	17.507	70.00	57.236	113.67	143.950	157.33	130.986	201.00	86.287	244.67	73.415
26.67	17.396	70.33	56.747	114.00	145.206	157.67	131.670	201.33	85.824	245.00	72.924
27.00	17.275	70.67	56.249	114.33	146.048	158.00	132.658	201.67	85.520	245.33	72.451
27.33	17.149	71.00	55.736	114.67	147.142	158.33	133.611	202.00	85.100	245.67	71.964
27.67	17.011	71.33	55.271	115.00	148.564	158.67	134.509	202.33	85.082	246.00	71.459
28.00	16.866	71.67	54.857	115.33	149.772	159.00	135.509	202.67	85.254	246.33	70.960
28.33	16.715	72.00	54.449	115.67	151.077	159.33	136.340	203.00	85.415	246.67	70.449
28.67	16.554	72.33	54.073	116.00	152.495	159.67	137.200	203.33	85.844	247.00	69.922
29.00	16.382	72.67	53.713	116.33	154.039	160.00	138.185	203.67	86.427	247.33	69.406
29.33	16.210	73.00	53.359	116.67	155.342	160.33	138.837	204.00	87.135	247.67	68.869
29.67	16.038	73.33	53.053	117.00	156.658	160.67	139.435	204.33	87.872	248.00	68.326
30.00	15.870	73.67	52.783	117.33	157.863	161.00	140.331	204.67	88.679	248.33	67.783
30.33	15.712	74.00	52.471	117.67	159.039	161.33	140.622	205.00	89.497	248.67	67.232
30.67	15.565	74.33	52.240	118.00	159.833	161.67	140.947	205.33	90.293	249.00	66.671
31.00	15.426	74.67	52.002	118.33	160.770	162.00	141.507	205.67	91.068	249.33	66.116
31.33	15.318	75.00	51.729	118.67	161.501	162.33	141.555	206.00	91.847	249.67	65.548
31.67	15.241	75.33	51.547	119.00	162.007	162.67	141.451	206.33	92.515	250.00	64.976
32.00	15.173	75.67	51.353	119.33	162.668	163.00	141.419	206.67	93.104	250.33	64.402
32.33	15.163	76.00	51.102	119.67	163.085	163.33	141.167	207.00	93.734	250.67	63.820
32.67	15.205	76.33	50.909	120.00	163.496	163.67	140.822	207.33	94.189	251.00	63.229
33.00	15.279	76.67	50.706	120.33	163.587	164.00	140.492	207.67	94.618	251.33	62.645
33.33	15.417	77.00	50.489	120.67	163.730	164.33	140.051	208.00	95.003	251.67	62.059
33.67	15.621	77.33	50.313	121.00	163.825	164.67	139.546	208.33	95.122	252.00	61.471
34.00	15.866	77.67	50.144	121.33	163.680	165.00	139.030	208.67	95.218	252.33	60.890
34.33	16.192	78.00	49.930	121.67	163.461	165.33	138.510	209.00	95.426	252.67	60.317
34.67	16.608	78.33	49.730	122.00	163.004	165.67	137.961	209.33	95.355	253.00	59.749
35.00	17.076	78.67	49.578	122.33	162.453	166.00	137.533	209.67	95.173	253.33	59.180
35.33	17.611	79.00	49.435	122.67	161.853	166.33	137.037	210.00	95.024	253.67	58.603
35.67	18.213	79.33	49.376	123.00	161.167	166.67	136.298	210.33	94.672	254.00	58.002
36.00	18.851	79.67	49.392	123.33	160.438	167.00	135.593	210.67	94.297	254.33	57.452
36.33	19.545	80.00	49.449	123.67	159.666	167.33	135.203	211.00	93.862	254.67	56.905
36.67	20.318	80.33	49.711	124.00	158.587	167.67	134.633	211.33	93.227	255.00	56.346
37.00	21.156	80.67	50.114	124.33	157.602	168.00	133.788	211.67	92.733	255.33	55.777
37.33	22.052	81.00	50.572	124.67	156.466	168.33	133.257	212.00	92.145	255.67	55.216
37.67	23.018	81.33	51.059	125.00	155.225	168.67	132.514	212.33	91.477	256.00	54.671
38.00	24.040	81.67	51.361	125.33	153.928	169.00	131.583	212.67	90.816	256.33	54.136
38.33	25.089	82.00	51.531	125.67	152.520	169.33	130.995	213.00	90.156	256.67	53.609
38.67	26.218	82.33	51.742	126.00	151.002	169.67	130.133	213.33	89.498	257.00	53.089
39.00	27.425	82.67	51.913	126.33	149.530	170.00	129.167	213.67	88.855	257.33	52.572
39.33	28.641	83.00	52.002	126.67	147.915	170.33	128.257	214.00	88.216	257.67	52.057
39.67	29.895	83.33	52.389	127.00	146.284	170.67	127.328	214.33	87.635	258.00	51.545
40.00	31.168	83.67	53.306	127.33	144.937	171.00	126.348	214.67	87.120	258.33	51.034
40.33	32.352	84.00	54.513	127.67	143.640	171.33	125.355	215.00	86.533	258.67	50.526
40.67	33.486	84.33	56.036	128.00	142.348	171.67	124.249	215.33	86.169	259.00	50.020
41.00	34.632	84.67	58.079	128.33	141.412	172.00	123.125	215.67	85.786	259.33	49.520
41.33	35.699	85.00	60.463	128.67	140.711	172.33	121.985	216.00	85.324	259.67	49.030
41.67	36.682	85.33	62.830	129.00	139.973	172.67	120.782	216.33	84.985	260.00	48.544
42.00	37.633	85.67	65.079	129.33	139.780	173.00	119.522	216.67	84.718	260.33	48.065
42.33	38.461	86.00	67.391	129.67	139.732	173.33	118.289	217.00	84.350	260.67	47.596
42.67	39.147	86.33	69.521	130.00	139.804	173.67	116.993	217.33	83.928	261.00	47.133
43.00	39.764	86.67	71.279	130.33	140.219	174.00	115.677	217.67	83.595	261.33	46.675
43.33	40.252	87.00	72.876	130.67	140.964	174.33	114.366	218.00	83.160	261.67	46.226

TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
262.00	45.780	305.67	7.044	349.33	6.554	393.00	6.099	436.67	5.679	480.33	5.335
262.33	45.245	306.00	7.040	349.67	6.550	393.33	6.096	437.00	5.676	480.67	5.332
262.67	44.467	306.33	7.037	350.00	6.541	393.67	6.092	437.33	5.674	481.00	5.327
263.00	43.574	306.67	7.033	350.33	6.530	394.00	6.090	437.67	5.671	481.33	5.321
263.33	42.015	307.00	7.029	350.67	6.525	394.33	6.085	438.00	5.667	481.67	5.317
263.67	39.116	307.33	7.024	351.00	6.523	394.67	6.077	438.33	5.660	482.00	5.316
264.00	35.462	307.67	7.019	351.33	6.521	395.00	6.074	438.67	5.656	482.33	5.314
264.33	31.838	308.00	7.014	351.67	6.519	395.33	6.073	439.00	5.655	482.67	5.313
264.67	28.263	308.33	7.009	352.00	6.517	395.67	6.071	439.33	5.653	483.00	5.311
265.00	24.631	308.67	7.004	352.33	6.516	396.00	6.070	439.67	5.651	483.33	5.310
265.33	21.478	309.00	6.999	352.67	6.513	396.33	6.068	440.00	5.649	483.67	5.308
265.67	19.056	309.33	6.995	353.00	6.511	396.67	6.065	440.33	5.646	484.00	5.306
266.00	16.968	309.67	6.991	353.33	6.509	397.00	6.063	440.67	5.643	484.33	5.304
266.33	15.180	310.00	6.987	353.67	6.506	397.33	6.060	441.00	5.639	484.67	5.303
266.67	13.792	310.33	6.984	354.00	6.504	397.67	6.057	441.33	5.635	485.00	5.301
267.00	12.649	310.67	6.981	354.33	6.501	398.00	6.054	441.67	5.632	485.33	5.299
267.33	11.741	311.00	6.978	354.67	6.498	398.33	6.051	442.00	5.628	485.67	5.297
267.67	11.029	311.33	6.975	355.00	6.494	398.67	6.047	442.33	5.625	486.00	5.295
268.00	10.410	311.67	6.973	355.33	6.491	399.00	6.043	442.67	5.622	486.33	5.293
268.33	9.892	312.00	6.969	355.67	6.488	399.33	6.038	443.00	5.619	486.67	5.291
268.67	9.468	312.33	6.966	356.00	6.484	399.67	6.034	443.33	5.617	487.00	5.289
269.00	9.118	312.67	6.963	356.33	6.480	400.00	6.030	443.67	5.615	487.33	5.286
269.33	8.822	313.00	6.959	356.67	6.472	400.33	6.024	444.00	5.612	487.67	5.284
269.67	8.579	313.33	6.956	357.00	6.461	400.67	6.016	444.33	5.608	488.00	5.281
270.00	8.375	313.67	6.951	357.33	6.455	401.00	6.013	444.67	5.602	488.33	5.277
270.33	8.204	314.00	6.947	357.67	6.453	401.33	6.012	445.00	5.598	488.67	5.273
270.67	8.062	314.33	6.944	358.00	6.451	401.67	6.010	445.33	5.597	489.00	5.266
271.00	7.945	314.67	6.939	358.33	6.448	402.00	6.009	445.67	5.596	489.33	5.262
271.33	7.847	315.00	6.934	358.67	6.446	402.33	6.007	446.00	5.594	489.67	5.261
271.67	7.767	315.33	6.929	359.00	6.444	402.67	6.005	446.33	5.593	490.00	5.259
272.00	7.696	315.67	6.924	359.33	6.442	403.00	6.003	446.67	5.591	490.33	5.257
272.33	7.644	316.00	6.919	359.67	6.440	403.33	6.000	447.00	5.589	490.67	5.256
272.67	7.600	316.33	6.915	360.00	6.437	403.67	5.997	447.33	5.586	491.00	5.254
273.00	7.561	316.67	6.911	360.33	6.435	404.00	5.995	447.67	5.583	491.33	5.252
273.33	7.530	317.00	6.908	360.67	6.432	404.33	5.992	448.00	5.580	491.67	5.251
273.67	7.500	317.33	6.905	361.00	6.430	404.67	5.989	448.33	5.576	492.00	5.249
274.00	7.482	317.67	6.902	361.33	6.427	405.00	5.985	448.67	5.573	492.33	5.247
274.33	7.464	318.00	6.899	361.67	6.424	405.33	5.982	449.00	5.569	492.67	5.245
274.67	7.444	318.33	6.897	362.00	6.421	405.67	5.978	449.33	5.565	493.00	5.243
275.00	7.429	318.67	6.894	362.33	6.417	406.00	5.974	449.67	5.562	493.33	5.241
275.33	7.414	319.00	6.891	362.67	6.414	406.33	5.970	450.00	5.560	493.67	5.239
275.67	7.404	319.33	6.888	363.00	6.407	406.67	5.963	450.33	5.557	494.00	5.237
276.00	7.394	319.67	6.884	363.33	6.398	407.00	5.955	450.67	5.555	494.33	5.235
276.33	7.383	320.00	6.880	363.67	6.392	407.33	5.950	451.00	5.550	494.67	5.233
276.67	7.376	320.33	6.877	364.00	6.390	407.67	5.949	451.33	5.545	495.00	5.231
277.00	7.370	320.67	6.874	364.33	6.387	408.00	5.947	451.67	5.542	495.33	5.229
277.33	7.364	321.00	6.870	364.67	6.384	408.33	5.946	452.00	5.541	495.67	5.226
277.67	7.359	321.33	6.866	365.00	6.380	408.67	5.944	452.33	5.540	496.00	5.223
278.00	7.354	321.67	6.861	365.33	6.377	409.00	5.942	452.67	5.538	496.33	5.218
278.33	7.349	322.00	6.857	365.67	6.374	409.33	5.940	453.00	5.537	496.67	5.212
278.67	7.344	322.33	6.851	366.00	6.372	409.67	5.937	453.33	5.535	497.00	5.208
279.00	7.339	322.67	6.847	366.33	6.370	410.00	5.935	453.67	5.534	497.33	5.206
279.33	7.334	323.00	6.842	366.67	6.367	410.33	5.932	454.00	5.532	497.67	5.204
279.67	7.328	323.33	6.837	367.00	6.365	410.67	5.929	454.33	5.530	498.00	5.203
280.00	7.321	323.67	6.833	367.33	6.362	411.00	5.927	454.67	5.528	498.33	5.201
280.33	7.316	324.00	6.830	367.67	6.359	411.33	5.924	455.00	5.526	498.67	5.199
280.67	7.311	324.33	6.827	368.00	6.357	411.67	5.921	455.33	5.523	499.00	5.197
281.00	7.306	324.67	6.824	368.33	6.354	412.00	5.917	455.67	5.520	499.33	5.195
281.33	7.301	325.00	6.821	368.67	6.351	412.33	5.914	456.00	5.517	499.67	5.194
281.67	7.297	325.33	6.818	369.00	6.348	412.67	5.910	456.33	5.514	500.00	5.192
282.00	7.294	325.67	6.815	369.33	6.341	413.00	5.904	456.67	5.510	500.33	5.190
282.33	7.291	326.00	6.811	369.67	6.332	413.33	5.895	457.00	5.507	500.67	5.188
282.67	7.288	326.33	6.808	370.00	6.328	413.67	5.890	457.33	5.503	501.00	5.186
283.00	7.286	326.67	6.805	370.33	6.326	414.00	5.888	457.67	5.500	501.33	5.184
283.33	7.283	327.00	6.802	370.67	6.323	414.33	5.886	458.00	5.498	501.67	5.182
283.67	7.280	327.33	6.799	371.00	6.320	414.67	5.883	458.33	5.493	502.00	5.180
284.00	7.278	327.67	6.795	371.33	6.316	415.00	5.881	458.67	5.488	502.33	5.178
284.33	7.275	328.00	6.792	371.67	6.313	415.33	5.879	459.00	5.485	502.67	5.176
284.67	7.272	328.33	6.787	372.00	6.309	415.67	5.877	459.33	5.484	503.00	5.174
285.00	7.269	328.67	6.782	372.33	6.305	416.00	5.875	459.67	5.483	503.33	5.172
285.33	7.265	329.00	6.776	372.67	6.303	416.33	5.872	460.00	5.481	503.67	5.169
285.67	7.262	329.33	6.770	373.00	6.300	416.67	5.870	460.33	5.480	504.00	5.165
286.00	7.258	329.67	6.765	373.33	6.298	417.00	5.867	460.67	5.478	504.33	5.159
286.33	7.253	330.00	6.760	373.67	6.295	417.33	5.865	461.00	5.477	504.67	5.155
286.67	7.248	330.33	6.755	374.00	6.293	417.67	5.862	461.33	5.475	505.00	5.153
287.00	7.243	330.67	6.752	374.33	6.290	418.00	5.859	461.67	5.473	505.33	5.150
287.33	7.238	331.00	6.747	374.67	6.287	418.33	5.856	462.00	5.471	505.67	5.148
287.67	7.234	331.33	6.741	375.00	6.284	418.67	5.853	462.33	5.469	506.00	5.147
288.00	7.229	331.67	6.738	375.33	6.281	419.00	5.850	462.67	5.467	506.33	5.145
288.33	7.225	332.00	6.737	375.67	6.275	419.33	5.844	463.00	5.465	506.67	5.143
288.67	7.221	332.33	6.735	376.00	6.267	419.67	5.836	463.33	5.463	507.00	5.141
289.00	7.218	332.67	6.733	376.33	6.263	420.00	5.831	463.67	5.460	507.33	5.139
289.33	7.215	333.00	6.730	376.67	6.261	420.33	5.829	464.00	5.457	507.67	5.137
289.67	7.213	333.33	6.728	377.00	6.260	420.67	5.826	464.33	5.453	508.00	5.135
290.00	7.210	333.67	6.725	377.33	6.257	421.00	5.823	464.67	5.450	508.33	5.133
290.33	7.208	334.00	6.721	377.67	6.254	421.33	5.820	465.00	5.447	508.67	5.132
290.67	7.205	334.33	6.718	378.00	6.250	421.67	5.817	465.33	5.443	509.00	5.130
291.00	7.202	334.67	6.714	378.33	6.246	422.00	5.815	465.67	5.439	509.33	5.128
291.33	7.200	335.00	6.710	378.67	6.242	422.33	5.813	466.00	5.433	509.67	5.126
291.67	7.197	335.33	6.706	379.00	6.238	422.67	5.810	466.33	5.430	510.00	5.124
292.00	7.194	335.67	6.702	379.33	6.234	423.00	5.808	466.67	5.429	510.33	5.122
292.33	7.190	336.00	6.696	379.67	6.232	423.33	5.805	467.00	5.427	510.67	5.120
292.67	7.187	336.33	6.691	380.00	6.229	423.67	5.802	467.33	5.426	511.00	5.118
293.00	7.183	336.67	6.687	380.33	6.227	424.00	5.800	467.67	5.425	511.33	5.115
293.33	7.179	337.00	6.679	380.67	6.224	424.33	5.797	468.00	5.423	511.67	5.111
293.67	7.173	337.33	6.668	381.00	6.222	424.67	5.794	468.33	5.421	512.00	5.106
294.00	7.168	337.67	6.664	381.33	6.219	425.00	5.791	468.67	5.420	512.33	5.102
294.33	7.164	338.00	6.664	381.67	6.216	425.33	5.788	469.00	5.418	512.67	5.100
294.67	7.160	338.33	6.663	382.00	6.211	425.67	5.783	469.33	5.416	513.00	5.097
295.00	7.155	338.67	6.662	382.33	6.203	426.00	5.776	469.67	5.414	513.33	5.095
295.33	7.151	339.00	6.660	382.67	6.199	426.33	5.772	470.00	5.412	513.67	5.093
295.67	7.147	339.33	6.658	383.00	6.198	426.67	5.769	470.33	5.410	514.00	5.091
296.00	7.144	339.67	6.656	383.33	6.196	427.00	5.766	470.67	5.408	514.33	5.089
296.33	7.141	340.00	6.654	383.67	6.194	427.33	5.763	471.00	5.406	514.67	5.087
296.67	7.138	340.33	6.651	384.00	6.192	427.67	5.760	471.33	5.403	515.00	5.085
297.00	7.136	340.67	6.648	384.33	6.189	428.00	5.757	471.67	5.401	515.33	5.083
297.33	7.133	341.00	6.645	384.67	6.185	428.33	5.754	472.00	5.397	515.67	5.081
297.67	7.130	341.33	6.641	385.00	6.181	428.67	5.751	472.33	5.394	516.00	5.080
298.00	7.128	341.67	6.638	385.33	6.177	429.00	5.748	472.67	5.391	516.33	5.078
298.33	7.125	342.00	6.634	385.67	6.173	429.33	5.746	473.00	5.387	516.67	5.076
298.67	7.122	342.33	6.630	386.00	6.169	429.67	5.743	473.33	5.382	517.00	5.074
299.00	7.119	342.67	6.625	386.33	6.166	430.00	5.741	473.67	5.376	517.33	5.072
299.33	7.115	343.00	6.620	386.67	6.162	430.33	5.738	474.00	5.373	517.67	5.070
299.67	7.112	343.33	6.612	387.00	6.160	430.67	5.735	474.33	5.372	518.00	5.068
300.00	7.107	343.67	6.601	387.33	6.157	431.00	5.733	474.67	5.370	518.33	5.066
300.33	7.103	344.00	6.596	387.67	6.155	431.33	5.730	475.00	5.369	518.67	5.064
300.67	7.098	344.33	6.594	388.00	6.152	431.67	5.725	475.33	5.368	519.00	5.062
301.00	7.092	344.67	6.593	388.33	6.146	432.00	5.718	475.67	5.366	519.33	5.058
301.33	7.088	345.00	6.592	388.67	6.139	432.33	5.715	476.00	5.364	519.67	5.053
301.67	7.083	345.33	6.590	389.00	6.135	432.67	5.713	476.33	5.363	520.00	5.050
302.00	7.078	345.67	6.588	389.33	6.134	433.00	5.711	476.67	5.361	520.33	5.047
302.33	7.074	346.00	6.586	389.67	6.133	433.33	5.709	477.00	5.359	520.67	5.045
302.67	7.070	346.33	6.584	390.00	6.131	433.67	5.706	477.33	5.357	521.00	5.043
303.00	7.067	346.67	6.581	390.33	6.128	434.00	5.703	477.67	5.355	521.33	5.040
303.33	7.064	347.00	6.578	390.67	6.126	434.33	5.699	478.00	5.353	521.67	5.038
303.67	7.061	347.33	6.576	391.00	6.123	434.67	5.696	478.33	5.351	522.00	5.036
304.00	7.058	347.67	6.572	391.33	6.120	435.00	5.693	478.67	5.349	522.33	5.034
304.33	7.055	348.00	6.569	391.67	6.116	435.33	5.689	479.00	5.347	522.67	5.032
304.67	7.053	348.33	6.566	392.00	6.112	435.67	5.687	479.33	5.345	523.00	5.030
305.00	7.050	348.67	6.562	392.33	6.107	436.00	5.684	479.67	5.342	523.33	5.028
305.33	7.047	349.00	6.559	392.67	6.103	436.33	5.681	480.00	5.339	523.67	5.026

TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
524.00	5.024	567.67	4.734	611.33	4.440	655.00	4.127	698.67	3.851	742.33	3.592
524.33	5.022	568.00	4.732	611.67	4.438	655.33	4.125	699.00	3.849	742.67	3.592
524.67	5.021	568.33	4.729	612.00	4.435	655.67	4.122	699.33	3.848	743.00	3.591
525.00	5.019	568.67	4.727	612.33	4.431	656.00	4.119	699.67	3.846	743.33	3.589
525.33	5.017	569.00	4.724	612.67	4.427	656.33	4.117	700.00	3.845	743.67	3.586
525.67	5.015	569.33	4.721	613.00	4.423	656.67	4.116	700.33	3.843	744.00	3.584
526.00	5.013	569.67	4.719	613.33	4.421	657.00	4.115	700.67	3.841	744.33	3.581
526.33	5.011	570.00	4.716	613.67	4.419	657.33	4.113	701.00	3.838	744.67	3.579
526.67	5.008	570.33	4.714	614.00	4.417	657.67	4.112	701.33	3.835	745.00	3.577
527.00	5.003	570.67	4.711	614.33	4.415	658.00	4.111	701.67	3.831	745.33	3.575
527.33	5.000	571.00	4.707	614.67	4.413	658.33	4.109	702.00	3.828	745.67	3.573
527.67	4.998	571.33	4.704	615.00	4.411	658.67	4.107	702.33	3.825	746.00	3.572
528.00	4.996	571.67	4.703	615.33	4.409	659.00	4.104	702.67	3.823	746.33	3.570
528.33	4.994	572.00	4.702	615.67	4.407	659.33	4.101	703.00	3.821	746.67	3.568
528.67	4.991	572.33	4.701	616.00	4.405	659.67	4.097	703.33	3.819	747.00	3.566
529.00	4.989	572.67	4.699	616.33	4.403	660.00	4.094	703.67	3.817	747.33	3.563
529.33	4.986	573.00	4.697	616.67	4.401	660.33	4.091	704.00	3.816	747.67	3.561
529.67	4.984	573.33	4.696	617.00	4.399	660.67	4.088	704.33	3.814	748.00	3.557
530.00	4.982	573.67	4.694	617.33	4.397	661.00	4.085	704.67	3.812	748.33	3.555
530.33	4.979	574.00	4.693	617.67	4.395	661.33	4.083	705.00	3.811	748.67	3.555
530.67	4.977	574.33	4.691	618.00	4.393	661.67	4.080	705.33	3.810	749.00	3.553
531.00	4.975	574.67	4.689	618.33	4.391	662.00	4.077	705.67	3.808	749.33	3.551
531.33	4.974	575.00	4.687	618.67	4.388	662.33	4.075	706.00	3.807	749.67	3.548
531.67	4.972	575.33	4.685	619.00	4.385	662.67	4.073	706.33	3.805	750.00	3.545
532.00	4.970	575.67	4.683	619.33	4.380	663.00	4.072	706.67	3.804	750.33	3.542
532.33	4.968	576.00	4.680	619.67	4.377	663.33	4.071	707.00	3.802	750.67	3.539
532.67	4.966	576.33	4.678	620.00	4.375	663.67	4.070	707.33	3.801	751.00	3.536
533.00	4.964	576.67	4.675	620.33	4.373	664.00	4.069	707.67	3.799	751.33	3.534
533.33	4.962	577.00	4.672	620.67	4.370	664.33	4.067	708.00	3.795	751.67	3.530
533.67	4.960	577.33	4.670	621.00	4.368	664.67	4.066	708.33	3.792	752.00	3.526
534.00	4.957	577.67	4.667	621.33	4.366	665.00	4.064	708.67	3.788	752.33	3.520
534.33	4.952	578.00	4.664	621.67	4.364	665.33	4.063	709.00	3.786	752.67	3.517
534.67	4.950	578.33	4.660	622.00	4.362	665.67	4.061	709.33	3.783	753.00	3.515
535.00	4.948	578.67	4.657	622.33	4.360	666.00	4.058	709.67	3.781	753.33	3.512
535.33	4.947	579.00	4.656	622.67	4.358	666.33	4.055	710.00	3.779	753.67	3.508
535.67	4.945	579.33	4.654	623.00	4.356	666.67	4.052	710.33	3.777	754.00	3.504
536.00	4.943	579.67	4.653	623.33	4.354	667.00	4.048	710.67	3.775	754.33	3.500
536.33	4.940	580.00	4.651	623.67	4.352	667.33	4.045	711.00	3.774	754.67	3.496
536.67	4.938	580.33	4.650	624.00	4.350	667.67	4.042	711.33	3.772	755.00	3.492
537.00	4.935	580.67	4.648	624.33	4.348	668.00	4.039	711.67	3.770	755.33	3.484
537.33	4.932	581.00	4.647	624.67	4.346	668.33	4.036	712.00	3.769	755.67	3.479
537.67	4.930	581.33	4.645	625.00	4.344	668.67	4.033	712.33	3.767	756.00	3.476
538.00	4.928	581.67	4.643	625.33	4.342	669.00	4.032	712.67	3.766	756.33	3.473
538.33	4.925	582.00	4.642	625.67	4.339	669.33	4.030	713.00	3.765	756.67	3.468
538.67	4.923	582.33	4.640	626.00	4.335	669.67	4.029	713.33	3.763	757.00	3.463
539.00	4.921	582.67	4.638	626.33	4.331	670.00	4.028	713.67	3.762	757.33	3.457
539.33	4.919	583.00	4.636	626.67	4.329	670.33	4.027	714.00	3.760	757.67	3.449
539.67	4.918	583.33	4.634	627.00	4.327	670.67	4.025	714.33	3.759	758.00	3.443
540.00	4.916	583.67	4.632	627.33	4.325	671.00	4.024	714.67	3.756	758.33	3.440
540.33	4.914	584.00	4.629	627.67	4.322	671.33	4.023	715.00	3.752	758.67	3.435
540.67	4.912	584.33	4.627	628.00	4.320	671.67	4.021	715.33	3.749	759.00	3.430
541.00	4.910	584.67	4.624	628.33	4.318	672.00	4.020	715.67	3.747	759.33	3.425
541.33	4.907	585.00	4.621	628.67	4.316	672.33	4.018	716.00	3.744	759.67	3.419
541.67	4.902	585.33	4.617	629.00	4.314	672.67	4.016	716.33	3.742	760.00	3.410
542.00	4.900	585.67	4.613	629.33	4.312	673.00	4.013	716.67	3.739	760.33	3.403
542.33	4.899	586.00	4.610	629.67	4.310	673.33	4.010	717.00	3.737	760.67	3.400
542.67	4.897	586.33	4.608	630.00	4.308	673.67	4.007	717.33	3.735	761.00	3.395
543.00	4.896	586.67	4.607	630.33	4.306	674.00	4.004	717.67	3.734	761.33	3.390
543.33	4.894	587.00	4.605	630.67	4.304	674.33	4.001	718.00	3.732	761.67	3.384
543.67	4.892	587.33	4.604	631.00	4.302	674.67	3.997	718.33	3.730	762.00	3.375
544.00	4.890	587.67	4.602	631.33	4.300	675.00	3.993	718.67	3.729	762.33	3.368
544.33	4.887	588.00	4.600	631.67	4.298	675.33	3.991	719.00	3.727	762.67	3.364
544.67	4.884	588.33	4.599	632.00	4.295	675.67	3.989	719.33	3.726	763.00	3.359
545.00	4.882	588.67	4.597	632.33	4.291	676.00	3.988	719.67	3.725	763.33	3.354
545.33	4.879	589.00	4.595	632.67	4.289	676.33	3.987	720.00	3.723	763.67	3.347
545.67	4.876	589.33	4.593	633.00	4.286	676.67	3.985	720.33	3.722	764.00	3.338
546.00	4.874	589.67	4.591	633.33	4.284	677.00	3.984	720.67	3.720	764.33	3.331
546.33	4.872	590.00	4.589	633.67	4.282	677.33	3.982	721.00	3.719	764.67	3.327
546.67	4.870	590.33	4.587	634.00	4.280	677.67	3.981	721.33	3.717	765.00	3.321
547.00	4.868	590.67	4.585	634.33	4.277	678.00	3.980	721.67	3.714	765.33	3.315
547.33	4.866	591.00	4.583	634.67	4.275	678.33	3.978	722.00	3.711	765.67	3.309
547.67	4.864	591.33	4.580	635.00	4.273	678.67	3.977	722.33	3.709	766.00	3.299
548.00	4.862	591.67	4.577	635.33	4.271	679.00	3.975	722.67	3.707	766.33	3.292
548.33	4.860	592.00	4.574	635.67	4.268	679.33	3.974	723.00	3.704	766.67	3.287
548.67	4.857	592.33	4.571	636.00	4.266	679.67	3.971	723.33	3.701	767.00	3.282
549.00	4.853	592.67	4.566	636.33	4.264	680.00	3.969	723.67	3.699	767.33	3.275
549.33	4.850	593.00	4.563	636.67	4.262	680.33	3.966	724.00	3.697	767.67	3.266
549.67	4.849	593.33	4.562	637.00	4.260	680.67	3.963	724.33	3.695	768.00	3.259
550.00	4.848	593.67	4.560	637.33	4.258	681.00	3.960	724.67	3.693	768.33	3.254
550.33	4.847	594.00	4.559	637.67	4.256	681.33	3.956	725.00	3.692	768.67	3.248
550.67	4.845	594.33	4.557	638.00	4.254	681.67	3.952	725.33	3.690	769.00	3.241
551.00	4.843	594.67	4.555	638.33	4.252	682.00	3.949	725.67	3.688	769.33	3.232
551.33	4.841	595.00	4.553	638.67	4.248	682.33	3.947	726.00	3.687	769.67	3.225
551.67	4.839	595.33	4.551	639.00	4.245	682.67	3.946	726.33	3.686	770.00	3.220
552.00	4.837	595.67	4.549	639.33	4.244	683.00	3.944	726.67	3.684	770.33	3.214
552.33	4.834	596.00	4.547	639.67	4.242	683.33	3.943	727.00	3.683	770.67	3.207
552.67	4.831	596.33	4.546	640.00	4.240	683.67	3.941	727.33	3.681	771.00	3.198
553.00	4.829	596.67	4.544	640.33	4.238	684.00	3.940	727.67	3.680	771.33	3.191
553.33	4.826	597.00	4.542	640.67	4.235	684.33	3.938	728.00	3.678	771.67	3.186
553.67	4.823	597.33	4.539	641.00	4.233	684.67	3.937	728.33	3.675	772.00	3.180
554.00	4.821	597.67	4.537	641.33	4.230	685.00	3.936	728.67	3.672	772.33	3.173
554.33	4.819	598.00	4.534	641.67	4.228	685.33	3.934	729.00	3.669	772.67	3.164
554.67	4.817	598.33	4.532	642.00	4.226	685.67	3.933	729.33	3.666	773.00	3.157
555.00	4.815	598.67	4.529	642.33	4.223	686.00	3.931	729.67	3.665	773.33	3.152
555.33	4.813	599.00	4.525	642.67	4.221	686.33	3.930	730.00	3.663	773.67	3.146
555.67	4.811	599.33	4.520	643.00	4.219	686.67	3.927	730.33	3.661	774.00	3.139
556.00	4.808	599.67	4.517	643.33	4.217	687.00	3.925	730.67	3.659	774.33	3.130
556.33	4.804	600.00	4.515	643.67	4.215	687.33	3.922	731.00	3.657	774.67	3.123
556.67	4.801	600.33	4.513	644.00	4.213	687.67	3.919	731.33	3.655	775.00	3.118
557.00	4.800	600.67	4.512	644.33	4.210	688.00	3.915	731.67	3.654	775.33	3.112
557.33	4.799	601.00	4.510	644.67	4.207	688.33	3.911	732.00	3.652	775.67	3.106
557.67	4.798	601.33	4.508	645.00	4.204	688.67	3.908	732.33	3.650	776.00	3.097
558.00	4.796	601.67	4.506	645.33	4.201	689.00	3.906	732.67	3.649	776.33	3.089
558.33	4.794	602.00	4.504	645.67	4.199	689.33	3.904	733.00	3.647	776.67	3.084
558.67	4.793	602.33	4.502	646.00	4.196	689.67	3.903	733.33	3.646	777.00	3.079
559.00	4.791	602.67	4.500	646.33	4.194	690.00	3.901	733.67	3.644	777.33	3.072
559.33	4.789	603.00	4.498	646.67	4.191	690.33	3.899	734.00	3.643	777.67	3.063
559.67	4.787	603.33	4.496	647.00	4.188	690.67	3.898	734.33	3.641	778.00	3.056
560.00	4.784	603.67	4.494	647.33	4.186	691.00	3.896	734.67	3.638	778.33	3.051
560.33	4.782	604.00	4.492	647.67	4.183	691.33	3.895	735.00	3.636	778.67	3.045
560.67	4.779	604.33	4.490	648.00	4.180	691.67	3.894	735.33	3.635	779.00	3.039
561.00	4.776	604.67	4.487	648.33	4.178	692.00	3.892	735.67	3.631	779.33	3.030
561.33	4.773	605.00	4.485	648.67	4.176	692.33	3.891	736.00	3.628	779.67	3.023
561.67	4.771	605.33	4.482	649.00	4.174	692.67	3.889	736.33	3.628	780.00	3.018
562.00	4.769	605.67	4.478	649.33	4.171	693.00	3.888	736.67	3.626	780.33	3.013
562.33	4.766	606.00	4.473	649.67	4.169	693.33	3.886	737.00	3.624	780.67	3.006
562.67	4.764	606.33	4.470	650.00	4.167	693.67	3.884	737.33	3.621	781.00	2.998
563.00	4.762	606.67	4.468	650.33	4.164	694.00	3.881	737.67	3.619	781.33	2.990
563.33	4.759	607.00	4.466	650.67	4.161	694.33	3.879	738.00	3.617	781.67	2.986
563.67	4.755	607.33	4.464	651.00	4.158	694.67	3.875	738.33	3.615	782.00	2.980
564.00	4.752	607.67	4.462	651.33	4.156	695.00	3.871	738.67	3.614	782.33	2.974
564.33	4.751	608.00	4.460	651.67	4.154	695.33	3.867	739.00	3.612	782.67	2.965
564.67	4.750	608.33	4.458	652.00	4.152	695.67	3.865	739.33	3.610	783.00	2.958
565.00	4.749	608.67	4.456	652.33	4.148	696.00	3.863	739.67	3.609	783.33	2.953
565.33	4.747	609.00	4.454	652.67	4.145	696.33	3.861	740.00	3.607	783.67	2.948
565.67	4.746	609.33	4.452	653.00	4.142	696.67	3.860	740.33	3.606	784.00	2.941
566.00	4.744	609.67	4.451	653.33	4.138	697.00	3.858	740.67	3.603	784.33	2.933
566.33	4.742	610.00	4.449	653.67	4.135	697.33	3.856	741.00	3.601	784.67	2.926
566.67	4.741	610.33	4.447	654.00	4.133	697.67	3.855	741.33	3.599	785.00	2.921
567.00	4.739	610.67	4.444	654.33	4.131	698.00	3.854	741.67	3.598	785.33	2.916
567.33	4.737	611.00	4.442	654.67	4.129	698.33	3.852	742.00	3.594	785.67	2.910

TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
786.00	2.902	829.67	2.200	873.33	0.128	917.00	0.000
786.33	2.895	830.00	2.196	873.67	0.123	917.33	0.000
786.67	2.890	830.33	2.190	874.00	0.119	917.67	0.000
787.00	2.884	830.67	2.185	874.33	0.114	918.00	0.000
787.33	2.878	831.00	2.177	874.67	0.110	918.33	0.000
787.67	2.870	831.33	2.170	875.00	0.105	918.67	0.000
788.00	2.863	831.67	2.164	875.33	0.101	919.00	0.000
788.33	2.859	832.00	2.157	875.67	0.097	919.33	0.000
788.67	2.853	832.33	2.149	876.00	0.093	919.67	0.000
789.00	2.847	832.67	2.141	876.33	0.090	920.00	0.000
789.33	2.839	833.00	2.134	876.67	0.086	920.33	0.000
789.67	2.833	833.33	2.126	877.00	0.083	920.67	0.000
790.00	2.828	833.67	2.117	877.33	0.079	921.00	0.000
790.33	2.823	834.00	2.110	877.67	0.076	921.33	0.000
790.67	2.817	834.33	2.100	878.00	0.073	921.67	0.000
791.00	2.809	834.67	2.091	878.33	0.070	922.00	0.000
791.33	2.802	835.00	2.082	878.67	0.067	922.33	0.000
791.67	2.798	835.33	2.072	879.00	0.065	922.67	0.000
792.00	2.792	835.67	2.061	879.33	0.062	923.00	0.000
792.33	2.786	836.00	2.050	879.67	0.060	923.33	0.000
792.67	2.779	836.33	2.038	880.00	0.057	923.67	0.000
793.00	2.772	836.67	2.026	880.33	0.055	924.00	0.000
793.33	2.768	837.00	2.013	880.67	0.053	924.33	0.000
793.67	2.762	837.33	2.000	881.00	0.051	924.67	0.000
794.00	2.756	837.67	1.986	881.33	0.048	925.00	0.000
794.33	2.749	838.00	1.972	881.67	0.047	925.33	0.000
794.67	2.743	838.33	1.957	882.00	0.045	925.67	0.000
795.00	2.738	838.67	1.943	882.33	0.043	926.00	0.000
795.33	2.733	839.00	1.927	882.67	0.041	926.33	0.000
795.67	2.727	839.33	1.911	883.00	0.039	926.67	0.000
796.00	2.720	839.67	1.894	883.33	0.038	927.00	0.000
796.33	2.713	840.00	1.876	883.67	0.036	927.33	0.000
796.67	2.709	840.33	1.858	884.00	0.035	927.67	0.000
797.00	2.704	840.67	1.839	884.33	0.033	928.00	0.000
797.33	2.698	841.00	1.820	884.67	0.032	928.33	0.000
797.67	2.691	841.33	1.800	885.00	0.031	928.67	0.000
798.00	2.684	841.67	1.780	885.33	0.029	929.00	0.000
798.33	2.680	842.00	1.759	885.67	0.028	929.33	0.000
798.67	2.675	842.33	1.738	886.00	0.027	929.67	0.000
799.00	2.669	842.67	1.716	886.33	0.026	930.00	0.000
799.33	2.662	843.00	1.693	886.67	0.025	930.33	0.000
799.67	2.656	843.33	1.671	887.00	0.024	930.67	0.000
800.00	2.651	843.67	1.647	887.33	0.023	931.00	0.000
800.33	2.646	844.00	1.624	887.67	0.022	931.33	0.000
800.67	2.641	844.33	1.601	888.00	0.021	931.67	0.000
801.00	2.634	844.67	1.577	888.33	0.020	932.00	0.000
801.33	2.628	845.00	1.553	888.67	0.019	932.33	0.000
801.67	2.623	845.33	1.529	889.00	0.018	932.67	0.000
802.00	2.618	845.67	1.505	889.33	0.017	933.00	0.000
802.33	2.613	846.00	1.481	889.67	0.017	933.33	0.000
802.67	2.606	846.33	1.456	890.00	0.016	933.67	0.000
803.00	2.600	846.67	1.432	890.33	0.015	934.00	0.000
803.33	2.596	847.00	1.408	890.67	0.015	934.33	0.000
803.67	2.591	847.33	1.383	891.00	0.014	934.67	0.000
804.00	2.585	847.67	1.359	891.33	0.013	935.00	0.000
804.33	2.579	848.00	1.335	891.67	0.013	935.33	0.000
804.67	2.573	848.33	1.310	892.00	0.012	935.67	0.000
805.00	2.568	848.67	1.286	892.33	0.012	936.00	0.000
805.33	2.563	849.00	1.262	892.67	0.011	936.33	0.000
805.67	2.558	849.33	1.238	893.00	0.011	936.67	0.000
806.00	2.551	849.67	1.213	893.33	0.010	937.00	0.000
806.33	2.546	850.00	1.189	893.67	0.010	937.33	0.000
806.67	2.541	850.33	1.165	894.00	0.010	937.67	0.000
807.00	2.536	850.67	1.141	894.33	0.009	938.00	0.000
807.33	2.531	851.00	1.118	894.67	0.009	938.33	0.000
807.67	2.525	851.33	1.096	895.00	0.008	938.67	0.000
808.00	2.519	851.67	1.073	895.33	0.008	939.00	0.000
808.33	2.514	852.00	1.049	895.67	0.008	939.33	0.000
808.67	2.510	852.33	1.026	896.00	0.007	939.67	0.000
809.00	2.504	852.67	1.002	896.33	0.007	940.00	0.000
809.33	2.498	853.00	0.978	896.67	0.007	940.33	0.000
809.67	2.492	853.33	0.955	897.00	0.006	940.67	0.000
810.00	2.488	853.67	0.931	897.33	0.006	941.00	0.000
810.33	2.483	854.00	0.908	897.67	0.006	941.33	0.000
810.67	2.478	854.33	0.885	898.00	0.006	941.67	0.000
811.00	2.472	854.67	0.862	898.33	0.005	942.00	0.000
811.33	2.466	855.00	0.840	898.67	0.005	942.33	0.000
811.67	2.462	855.33	0.817	899.00	0.005	942.67	0.000
812.00	2.457	855.67	0.795	899.33	0.005	943.00	0.000
812.33	2.452	856.00	0.774	899.67	0.005	943.33	0.000
812.67	2.446	856.33	0.752	900.00	0.004	943.67	0.000
813.00	2.441	856.67	0.731	900.33	0.004	944.00	0.000
813.33	2.436	857.00	0.711	900.67	0.004	944.33	0.000
813.67	2.432	857.33	0.690	901.00	0.004	944.67	0.000
814.00	2.427	857.67	0.670	901.33	0.004	945.00	0.000
814.33	2.421	858.00	0.651	901.67	0.003	945.33	0.000
814.67	2.415	858.33	0.632	902.00	0.003	945.67	0.000
815.00	2.411	858.67	0.613	902.33	0.003	946.00	0.000
815.33	2.406	859.00	0.594	902.67	0.003	946.33	0.000
815.67	2.402	859.33	0.576	903.00	0.003	946.67	0.000
816.00	2.396	859.67	0.559	903.33	0.003	947.00	0.000
816.33	2.390	860.00	0.541	903.67	0.003	947.33	0.000
816.67	2.386	860.33	0.524	904.00	0.003	947.67	0.000
817.00	2.382	860.67	0.508	904.33	0.002	948.00	0.000
817.33	2.377	861.00	0.492	904.67	0.002	948.33	0.000
817.67	2.371	861.33	0.476	905.00	0.002	948.67	0.000
818.00	2.366	861.67	0.460	905.33	0.002	949.00	0.000
818.33	2.362	862.00	0.445	905.67	0.002	949.33	0.000
818.67	2.357	862.33	0.431	906.00	0.002	949.67	0.000
819.00	2.352	862.67	0.417	906.33	0.002	950.00	0.000
819.33	2.347	863.00	0.403	906.67	0.002	950.33	0.000
819.67	2.342	863.33	0.389	907.00	0.002	950.67	0.000
820.00	2.338	863.67	0.376	907.33	0.002	951.00	0.000
820.33	2.333	864.00	0.363	907.67	0.002	951.33	0.000
820.67	2.328	864.33	0.351	908.00	0.001	951.67	0.000
821.00	2.323	864.67	0.339	908.33	0.001	952.00	0.000
821.33	2.318	865.00	0.327	908.67	0.001	952.33	0.000
821.67	2.314	865.33	0.316	909.00	0.001	952.67	0.000
822.00	2.309	865.67	0.305	909.33	0.001	953.00	0.000
822.33	2.305	866.00	0.294	909.67	0.001	953.33	0.000
822.67	2.299	866.33	0.284	910.00	0.001	953.67	0.000
823.00	2.294	866.67	0.274	910.33	0.001	954.00	0.000
823.33	2.290	867.00	0.264	910.67	0.001	954.33	0.000
823.67	2.286	867.33	0.254	911.00	0.001	954.67	0.000
824.00	2.281	867.67	0.245	911.33	0.001	955.00	0.000
824.33	2.276	868.00	0.236	911.67	0.001	955.33	0.000
824.67	2.271	868.33	0.228	912.00	0.001	955.67	0.000
825.00	2.267	868.67	0.219	912.33	0.001	956.00	0.000
825.33	2.263	869.00	0.211	912.67	0.001	956.33	0.000
825.67	2.258	869.33	0.204	913.00	0.001	956.67	0.000
826.00	2.253	869.67	0.196	913.33	0.001	957.00	0.000
826.33	2.248	870.00	0.189	913.67	0.001	957.33	0.000
826.67	2.244	870.33	0.182	914.00	0.001	957.67	0.000
827.00	2.240	870.67	0.175	914.33	0.001	958.00	0.000
827.33	2.235	871.00	0.168	914.67	0.001	958.33	0.000
827.67	2.230	871.33	0.162	915.00	0.001	958.67	0.000
828.00	2.225	871.67	0.156	915.33	0.001	959.00	0.000
828.33	2.221	872.00	0.150	915.67	0.001	959.33	0.000
828.67	2.216	872.33	0.144	916.00	0.001	959.67	0.000
829.00	2.212	872.67	0.139	916.33	0.001	960.00	0.000
829.33	2.206	873.00	0.133	916.67	0.000	960.33	0.000

S_N4 (JR SPRING)



Hydrograph Statistics:

Legend	Filename & Comment	Time Step (min)	Drainage Area (ha)	Peak Flow (cms)	Time to Peak (hrs)	Runoff Volume (mm)	Runoff Volume (cu.m)	Duration of flow (hrs)	Average flow (cms)
——●	H-S_N4.100 : flow at S_N4	20.00	48262.00	178.812	138.000	161.08	7.774E+07	253.000	85.354

Hydrograph Table:

Hydrograph Filename : Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\JRSPRI~1\H-S_N4.100
Comment in file : flow at S_N4

TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
0.00	0.000	43.67	39.856	87.33	76.981	131.00	149.740
0.33	0.052	44.00	40.288	87.67	78.438	131.33	151.021
0.67	0.112	44.33	40.646	88.00	79.782	131.67	152.441
1.00	0.183	44.67	40.914	88.33	80.868	132.00	153.792
1.33	0.215	45.00	41.071	88.67	81.796	132.33	155.253
1.67	0.252	45.33	41.159	89.00	82.592	132.67	156.927
2.00	0.288	45.67	41.174	89.33	83.089	133.00	158.750
2.33	0.325	46.00	41.105	89.67	83.469	133.33	160.456
2.67	0.361	46.33	40.991	90.00	83.693	133.67	162.264
3.00	0.396	46.67	40.819	90.33	83.625	134.00	164.149
3.33	0.431	47.00	40.584	90.67	83.411	134.33	165.883
3.67	0.464	47.33	40.331	91.00	83.053	134.67	167.636
4.00	0.496	47.67	40.033	91.33	82.585	135.00	169.486
4.33	0.527	48.00	39.695	91.67	81.971	135.33	171.037
4.67	0.558	48.33	39.325	92.00	81.309	135.67	172.508
5.00	0.588	48.67	38.924	92.33	80.675	136.00	174.064
5.33	0.619	49.00	38.473	92.67	79.996	136.33	175.283
5.67	0.649	49.33	37.965	93.00	79.255	136.67	176.325
6.00	0.679	49.67	37.433	93.33	78.561	137.00	177.335
6.33	0.706	50.00	36.870	93.67	77.840	137.33	177.986
6.67	0.731	50.33	36.293	94.00	77.106	137.67	178.404
7.00	0.756	50.67	35.711	94.33	76.428	138.00	178.812
7.33	0.794	51.00	35.120	94.67	75.767	138.33	178.781
7.67	0.838	51.33	34.530	95.00	75.118	138.67	178.745
8.00	0.887	51.67	33.947	95.33	74.520	139.00	178.442
8.33	0.949	52.00	33.371	95.67	73.940	139.33	177.974
8.67	1.020	52.33	32.803	96.00	73.359	139.67	177.395
9.00	1.100	52.67	32.248	96.33	72.865	140.00	176.684
9.33	1.197	53.00	31.705	96.67	72.419	140.33	176.044
9.67	1.307	53.33	31.170	97.00	71.920	140.67	175.269
10.00	1.421	53.67	30.643	97.33	71.452	141.00	174.409
10.33	1.549	54.00	30.122	97.67	71.050	141.33	173.675
10.67	1.690	54.33	29.619	98.00	70.633	141.67	172.895
11.00	1.846	54.67	29.137	98.33	70.252	142.00	172.178
11.33	2.025	55.00	28.679	98.67	69.905	142.33	171.505
11.67	2.214	55.33	28.267	99.00	69.627	142.67	170.635
12.00	2.417	55.67	27.892	99.33	69.325	143.00	169.809
12.33	2.649	56.00	27.551	99.67	68.997	143.33	169.293
12.67	2.905	56.33	27.353	100.00	68.746	143.67	168.518
13.00	3.177	56.67	27.230	100.33	68.534	144.00	167.426
13.33	3.469	57.00	27.177	100.67	68.304	144.33	166.844
13.67	3.793	57.33	27.275	101.00	68.043	144.67	166.188
14.00	4.149	57.67	27.469	101.33	67.832	145.00	165.007
14.33	4.523	58.00	27.757	101.67	67.643	145.33	164.218
14.67	4.919	58.33	28.167	102.00	67.429	145.67	163.408
15.00	5.361	58.67	28.702	102.33	67.270	146.00	162.302
15.33	5.852	59.00	29.362	102.67	67.153	146.33	161.185
15.67	6.393	59.33	30.140	103.00	67.048	146.67	160.122
16.00	6.968	59.67	31.070	103.33	67.435	147.00	159.000
16.33	7.546	60.00	32.148	103.67	68.077	147.33	157.848
16.67	8.144	60.33	33.320	104.00	68.875	147.67	156.612
17.00	8.761	60.67	34.627	104.33	70.173	148.00	155.321
17.33	9.362	61.00	36.083	104.67	71.740	148.33	153.992
17.67	9.965	61.33	37.589	105.00	73.511	148.67	152.620
18.00	10.588	61.67	39.162	105.33	75.653	149.00	151.159
18.33	11.212	62.00	40.852	105.67	78.125	149.33	149.686
18.67	11.835	62.33	42.565	106.00	80.839	149.67	148.147
19.00	12.454	62.67	44.348	106.33	83.847	150.00	146.537
19.33	13.048	63.00	46.257	106.67	87.169	150.33	144.885
19.67	13.598	63.33	48.183	107.00	90.712	150.67	143.184
20.00	14.113	63.67	50.127	107.33	94.416	151.00	141.562
20.33	14.607	64.00	52.023	107.67	98.257	151.33	139.834
20.67	15.067	64.33	53.770	108.00	102.180	151.67	138.215
21.00	15.488	64.67	55.453	108.33	106.130	152.00	136.660
21.33	15.884	65.00	57.064	108.67	110.242	152.33	135.479
21.67	16.247	65.33	58.488	109.00	114.499	152.67	134.448
22.00	16.571	65.67	59.707	109.33	118.614	153.00	133.736
22.33	16.863	66.00	60.721	109.67	122.684	153.33	133.319
22.67	17.115	66.33	61.479	110.00	126.687	153.67	133.076
23.00	17.331	66.67	61.983	110.33	130.360	154.00	132.956
23.33	17.520	67.00	62.274	110.67	133.962	154.33	132.874
23.67	17.677	67.33	62.358	111.00	137.555	154.67	133.307
24.00	17.802	67.67	62.247	111.33	140.700	155.00	133.880
24.33	17.901	68.00	62.038	111.67	143.585	155.33	134.281
24.67	17.973	68.33	61.768	112.00	146.358	155.67	134.891
25.00	18.020	68.67	61.398	112.33	148.579	156.00	135.712
25.33	18.047	69.00	60.986	112.67	150.419	156.33	136.515
25.67	18.055	69.33	60.560	113.00	152.054	156.67	137.258
26.00	18.044	69.67	60.095	113.33	153.164	157.00	138.141
26.33	18.018	70.00	59.599	113.67	153.966	157.33	139.167
26.67	17.975	70.33	59.127	114.00	154.677	157.67	139.991
27.00	17.917	70.67	58.642	114.33	155.133	158.00	140.899
27.33	17.847	71.00	58.139	114.67	155.300	158.33	141.828
27.67	17.766	71.33	57.656	115.00	155.617	158.67	142.756
28.00	17.672	71.67	57.194	115.33	156.022	159.00	143.698
28.33	17.569	72.00	56.746	115.67	156.381	159.33	144.471
28.67	17.455	72.33	56.321	116.00	156.805	159.67	145.212
29.00	17.330	72.67	55.914	116.33	157.558	160.00	146.011
29.33	17.197	73.00	55.516	116.67	158.263	160.33	146.579
29.67	17.058	73.33	55.147	117.00	158.895	160.67	146.989
30.00	16.915	73.67	54.804	117.33	159.754	161.00	147.478
30.33	16.770	74.00	54.469	117.67	160.547	161.33	147.710
30.67	16.627	74.33	54.155	118.00	161.201	161.67	147.862
31.00	16.487	74.67	53.869	118.33	161.908	162.00	147.880
31.33	16.364	75.00	53.573	118.67	162.600	162.33	147.687
31.67	16.255	75.33	53.293	119.00	163.088	162.67	147.410
32.00	16.157	75.67	53.020	119.33	163.820	163.00	147.024
32.33	16.114	76.00	52.776	119.67	164.193	163.33	146.560
32.67	16.100	76.33	52.538	120.00	164.472	163.67	145.938
33.00	16.112	76.67	52.287	120.33	164.921	164.00	145.239
33.33	16.195	77.00	52.060	120.67	165.180	164.33	144.595
33.67	16.319	77.33	51.845	121.00	165.369	164.67	143.860
34.00	16.485	77.67	51.630	121.33	165.439	165.00	143.069
34.33	16.714	78.00	51.430	121.67	165.344	165.33	142.356
34.67	17.001	78.33	51.229	122.00	165.087	165.67	141.770
35.00	17.346	78.67	51.030	122.33	164.684	166.00	141.165
35.33	17.750	79.00	50.870	122.67	164.188	166.33	140.470
35.67	18.217	79.33	50.826	123.00	163.607	166.67	139.684
36.00	18.744	79.67	50.819	123.33	162.963	167.00	139.026
36.33	19.318	80.00	50.863	123.67	162.263	167.33	138.499
36.67	19.960	80.33	51.169	124.00	161.651	167.67	137.794
37.00	20.675	80.67	51.601	124.33	160.867	168.00	137.113
37.33	21.442	81.00	52.128	124.67	159.923	168.33	136.451
37.67	22.284	81.33	52.814	125.00	158.847	168.67	135.657
38.00	23.203	81.67	53.490	125.33	157.744	169.00	134.942
38.33	24.138	82.00	54.092	125.67	156.532	169.33	134.257
38.67	25.095	82.33	54.692	126.00	155.232	169.67	133.377
39.00	26.118	82.67	55.303	126.33	153.872	170.00	132.609
39.33	27.178	83.00	55.852	126.67	152.471	170.33	131.788
39.67	28.291	83.33	56.414	127.00	150.976	170.67	130.888
40.00	29.461	83.67	57.197	127.33	149.795	171.00	129.954
40.33	30.623	84.00	58.225	127.67	148.716	171.33	129.019
40.67	31.786	84.33	59.430	128.00	147.628	171.67	128.025
41.00	32.960	84.67	60.956	128.33	147.002	172.00	126.986
41.33	34.092	85.00	62.840	128.67	146.560	172.33	125.918
41.67	35.187	85.33	64.880	129.00	146.241	172.67	124.821
42.00	36.214	85.67	67.034	129.33	146.257	173.00	123.663
42.33	37.117	86.00	69.289	129.67	146.585	173.33	122.496
42.67	37.934	86.33	71.487	130.00	146.938	173.67	121.297
43.00	38.676	86.67	73.519	130.33	147.573	174.00	120.067
43.33	39.323	87.00	75.367	130.67	148.540	174.33	118.815

TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
174.67	117.555	218.33	85.088	262.00	47.031	305.67	7.067
175.00	116.240	218.67	84.689	262.33	46.557	306.00	7.062
175.33	114.902	219.00	84.211	262.67	45.993	306.33	7.058
175.67	113.575	219.33	83.786	263.00	45.334	306.67	7.054
176.00	112.218	219.67	83.398	263.33	44.427	307.00	7.050
176.33	111.161	220.00	82.968	263.67	42.956	307.33	7.046
176.67	110.336	220.33	82.581	264.00	40.775	307.67	7.042
177.00	109.658	220.67	82.214	264.33	38.116	308.00	7.037
177.33	109.214	221.00	81.825	264.67	35.301	308.33	7.033
177.67	108.975	221.33	81.495	265.00	32.462	308.67	7.028
178.00	108.781	221.67	81.181	265.33	29.549	309.00	7.023
178.33	108.783	222.00	80.808	265.67	26.880	309.33	7.019
178.67	108.911	222.33	80.477	266.00	24.625	309.67	7.014
179.00	109.118	222.67	80.193	266.33	22.625	310.00	7.010
179.33	109.418	223.00	79.864	266.67	20.796	310.33	7.006
179.67	109.915	223.33	79.543	267.00	19.159	310.67	7.002
180.00	110.507	223.67	79.259	267.33	17.756	311.00	6.998
180.33	111.074	224.00	78.974	267.67	16.555	311.33	6.995
180.67	111.733	224.33	78.915	268.00	15.504	311.67	6.994
181.00	112.427	224.67	79.028	268.33	14.586	312.00	6.993
181.33	113.027	225.00	79.236	268.67	13.793	312.33	6.989
181.67	113.613	225.33	79.697	269.00	13.087	312.67	6.985
182.00	114.250	225.67	80.322	269.33	12.439	313.00	6.981
182.33	114.878	226.00	80.996	269.67	11.850	313.33	6.977
182.67	115.413	226.33	81.761	270.00	11.329	313.67	6.973
183.00	115.943	226.67	82.728	270.33	10.865	314.00	6.969
183.33	116.439	227.00	83.795	270.67	10.453	314.33	6.965
183.67	116.829	227.33	84.913	271.00	10.087	314.67	6.961
184.00	117.245	227.67	86.123	271.33	9.763	315.00	6.956
184.33	117.609	228.00	87.372	271.67	9.475	315.33	6.952
184.67	117.822	228.33	88.633	272.00	9.220	315.67	6.947
185.00	118.067	228.67	89.932	272.33	9.001	316.00	6.943
185.33	118.203	229.00	91.266	272.67	8.814	316.33	6.938
185.67	118.178	229.33	92.489	273.00	8.647	316.67	6.934
186.00	118.087	229.67	93.691	273.33	8.498	317.00	6.930
186.33	117.876	230.00	94.873	273.67	8.365	317.33	6.926
186.67	117.621	230.33	95.873	274.00	8.247	317.67	6.922
187.00	117.305	230.67	96.859	274.33	8.143	318.00	6.922
187.33	116.952	231.00	97.748	274.67	8.049	318.33	6.921
187.67	116.501	231.33	98.462	275.00	7.966	318.67	6.917
188.00	116.009	231.67	99.096	275.33	7.888	319.00	6.913
188.33	115.566	232.00	99.704	275.67	7.823	319.33	6.909
188.67	115.063	232.33	100.110	276.00	7.767	319.67	6.905
189.00	114.523	232.67	100.346	276.33	7.715	320.00	6.901
189.33	114.050	233.00	100.639	276.67	7.670	320.33	6.897
189.67	113.636	233.33	100.620	277.00	7.629	320.67	6.893
190.00	113.198	233.67	100.439	277.33	7.594	321.00	6.890
190.33	112.695	234.00	100.291	277.67	7.559	321.33	6.886
190.67	112.089	234.33	99.936	278.00	7.533	321.67	6.882
191.00	111.582	234.67	99.389	278.33	7.510	322.00	6.878
191.33	111.190	235.00	98.786	278.67	7.486	322.33	6.874
191.67	110.652	235.33	98.151	279.00	7.464	322.67	6.869
192.00	110.106	235.67	97.453	279.33	7.448	323.00	6.865
192.33	109.584	236.00	96.661	279.67	7.434	323.33	6.860
192.67	108.976	236.33	95.908	280.00	7.417	323.67	6.856
193.00	108.405	236.67	95.115	280.33	7.402	324.00	6.852
193.33	107.854	237.00	94.296	280.67	7.388	324.33	6.851
193.67	107.187	237.33	93.522	281.00	7.375	324.67	6.850
194.00	106.592	237.67	92.704	281.33	7.368	325.00	6.845
194.33	105.966	238.00	91.859	281.67	7.361	325.33	6.841
194.67	105.294	238.33	91.113	282.00	7.351	325.67	6.837
195.00	104.606	238.67	90.400	282.33	7.342	326.00	6.833
195.33	103.908	239.00	89.685	282.67	7.333	326.33	6.829
195.67	103.166	239.33	88.288	283.00	7.326	326.67	6.825
196.00	102.398	239.67	86.278	283.33	7.320	327.00	6.822
196.33	101.618	240.00	84.020	283.67	7.314	327.33	6.818
196.67	100.823	240.33	82.508	284.00	7.308	327.67	6.814
197.00	99.994	240.67	81.499	284.33	7.303	328.00	6.811
197.33	99.159	241.00	80.619	284.67	7.298	328.33	6.807
197.67	98.309	241.33	79.914	285.00	7.294	328.67	6.803
198.00	97.441	241.67	79.315	285.33	7.292	329.00	6.798
198.33	96.562	242.00	78.668	285.67	7.291	329.33	6.794
198.67	95.678	242.33	78.096	286.00	7.286	329.67	6.789
199.00	94.781	242.67	77.584	286.33	7.280	330.00	6.784
199.33	93.886	243.00	77.046	286.67	7.275	330.33	6.780
199.67	92.976	243.33	76.526	287.00	7.270	330.67	6.778
200.00	92.041	243.67	76.032	287.33	7.265	331.00	6.777
200.33	91.267	244.00	75.547	287.67	7.260	331.33	6.771
200.67	90.574	244.33	75.067	288.00	7.255	331.67	6.766
201.00	89.936	244.67	74.611	288.33	7.250	332.00	6.761
201.33	89.551	245.00	74.159	288.67	7.245	332.33	6.757
201.67	89.319	245.33	73.684	289.00	7.241	332.67	6.754
202.00	89.111	245.67	73.209	289.33	7.237	333.00	6.750
202.33	89.105	246.00	72.727	289.67	7.233	333.33	6.747
202.67	89.270	246.33	72.239	290.00	7.229	333.67	6.743
203.00	89.564	246.67	71.749	290.33	7.226	334.00	6.740
203.33	89.970	247.00	71.249	290.67	7.223	334.33	6.736
203.67	90.571	247.33	70.743	291.00	7.219	334.67	6.733
204.00	91.325	247.67	70.210	291.33	7.216	335.00	6.729
204.33	92.106	248.00	69.657	291.67	7.217	335.33	6.726
204.67	92.888	248.33	69.108	292.00	7.216	335.67	6.722
205.00	93.760	248.67	68.554	292.33	7.212	336.00	6.718
205.33	94.569	249.00	67.998	292.67	7.208	336.33	6.713
205.67	95.375	249.33	67.444	293.00	7.204	336.67	6.709
206.00	96.195	249.67	66.889	293.33	7.200	337.00	6.707
206.33	96.909	250.00	66.331	293.67	7.196	337.33	6.704
206.67	97.581	250.33	65.770	294.00	7.191	337.67	6.697
207.00	98.243	250.67	65.207	294.33	7.187	338.00	6.692
207.33	98.770	251.00	64.638	294.67	7.182	338.33	6.688
207.67	99.224	251.33	64.068	295.00	7.178	338.67	6.684
208.00	99.654	251.67	63.498	295.33	7.173	339.00	6.680
208.33	99.873	252.00	62.926	295.67	7.169	339.33	6.677
208.67	100.038	252.33	62.356	296.00	7.165	339.67	6.674
209.00	100.176	252.67	61.789	296.33	7.161	340.00	6.671
209.33	100.066	253.00	61.226	296.67	7.158	340.33	6.668
209.67	99.818	253.33	60.665	297.00	7.154	340.67	6.665
210.00	99.593	253.67	60.103	297.33	7.151	341.00	6.661
210.33	99.202	254.00	59.532	297.67	7.148	341.33	6.658
210.67	98.697	254.33	58.967	298.00	7.144	341.67	6.655
211.00	98.125	254.67	58.418	298.33	7.141	342.00	6.652
211.33	97.530	255.00	57.868	298.67	7.141	342.33	6.648
211.67	96.860	255.33	57.314	299.00	7.141	342.67	6.644
212.00	96.087	255.67	56.759	299.33	7.137	343.00	6.641
212.33	95.417	256.00	56.212	299.67	7.133	343.33	6.639
212.67	94.682	256.33	55.673	300.00	7.129	343.67	6.635
213.00	93.896	256.67	55.140	300.33	7.125	344.00	6.629
213.33	93.151	257.00	54.613	300.67	7.120	344.33	6.623
213.67	92.387	257.33	54.092	301.00	7.116	344.67	6.619
214.00	91.612	257.67	53.574	301.33	7.111	345.00	6.615
214.33	90.910	258.00	53.044	301.67	7.107	345.33	6.611
214.67	90.253	258.33	52.497	302.00	7.102	345.67	6.607
215.00	89.595	258.67	51.957	302.33	7.097	346.00	6.604
215.33	89.029	259.00	51.428	302.67	7.093	346.33	6.601
215.67	88.531	259.33	50.896	303.00	7.089	346.67	6.598
216.00	88.020	259.67	50.378	303.33	7.085	347.00	6.595
216.33	87.552	260.00	49.872	303.67	7.081	347.33	6.592
216.67	87.160	260.33	49.376	304.00	7.077	347.67	6.589
217.00	86.717	260.67	48.890	304.33	7.074	348.00	6.586
217.33	86.333	261.00	48.414	304.67	7.071	348.33	6.583
217.67	85.954	261.33	47.945	305.00	7.067	348.67	6.579
218.00	85.495	261.67	47.485	305.33	7.067	349.00	6.576

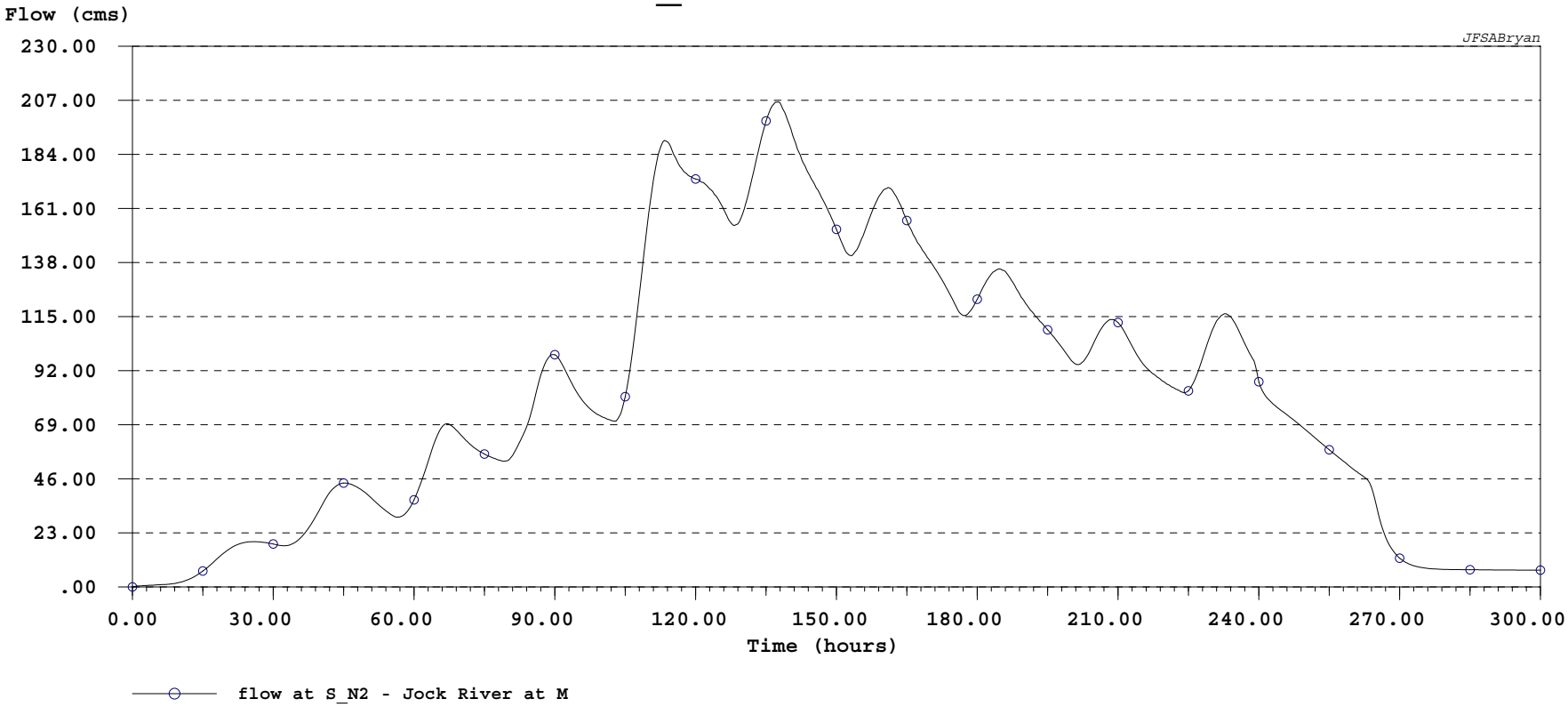
TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
349.33	6.573	393.00	6.119	436.67	5.695	480.33	5.348
349.67	6.572	393.33	6.115	437.00	5.693	480.67	5.345
350.00	6.570	393.67	6.112	437.33	5.690	481.00	5.345
350.33	6.563	394.00	6.111	437.67	5.687	481.33	5.344
350.67	6.557	394.33	6.109	438.00	5.686	481.67	5.340
351.00	6.551	394.67	6.104	438.33	5.684	482.00	5.336
351.33	6.547	395.00	6.099	438.67	5.680	482.33	5.333
351.67	6.543	395.33	6.095	439.00	5.676	482.67	5.330
352.00	6.539	395.67	6.092	439.33	5.672	483.00	5.327
352.33	6.535	396.00	6.088	439.67	5.669	483.33	5.324
352.67	6.532	396.33	6.085	440.00	5.666	483.67	5.322
353.00	6.529	396.67	6.082	440.33	5.663	484.00	5.319
353.33	6.526	397.00	6.079	440.67	5.660	484.33	5.317
353.67	6.523	397.33	6.076	441.00	5.657	484.67	5.315
354.00	6.520	397.67	6.073	441.33	5.653	485.00	5.312
354.33	6.517	398.00	6.070	441.67	5.650	485.33	5.310
354.67	6.514	398.33	6.067	442.00	5.647	485.67	5.308
355.00	6.511	398.67	6.064	442.33	5.643	486.00	5.306
355.33	6.508	399.00	6.061	442.67	5.640	486.33	5.304
355.67	6.504	399.33	6.057	443.00	5.637	486.67	5.302
356.00	6.504	399.67	6.054	443.33	5.634	487.00	5.300
356.33	6.503	400.00	6.050	443.67	5.631	487.33	5.297
356.67	6.498	400.33	6.048	444.00	5.628	487.67	5.295
357.00	6.492	400.67	6.045	444.33	5.627	488.00	5.293
357.33	6.486	401.00	6.040	444.67	5.625	488.33	5.290
357.67	6.481	401.33	6.036	445.00	5.621	488.67	5.290
358.00	6.476	401.67	6.032	445.33	5.617	489.00	5.289
358.33	6.472	402.00	6.029	445.67	5.614	489.33	5.284
358.67	6.468	402.33	6.025	446.00	5.611	489.67	5.281
359.00	6.464	402.67	6.022	446.33	5.609	490.00	5.277
359.33	6.461	403.00	6.019	446.67	5.606	490.33	5.274
359.67	6.458	403.33	6.016	447.00	5.603	490.67	5.271
360.00	6.455	403.67	6.014	447.33	5.601	491.00	5.269
360.33	6.452	404.00	6.011	447.67	5.598	491.33	5.266
360.67	6.449	404.33	6.008	448.00	5.595	491.67	5.264
361.00	6.446	404.67	6.005	448.33	5.592	492.00	5.261
361.33	6.443	405.00	6.002	448.67	5.589	492.33	5.259
361.67	6.440	405.33	5.999	449.00	5.586	492.67	5.257
362.00	6.437	405.67	5.996	449.33	5.583	493.00	5.255
362.33	6.436	406.00	5.992	449.67	5.580	493.33	5.252
362.67	6.435	406.33	5.989	450.00	5.577	493.67	5.250
363.00	6.431	406.67	5.987	450.33	5.574	494.00	5.248
363.33	6.426	407.00	5.984	450.67	5.571	494.33	5.246
363.67	6.420	407.33	5.979	451.00	5.570	494.67	5.244
364.00	6.415	407.67	5.974	451.33	5.568	495.00	5.242
364.33	6.411	408.00	5.970	451.67	5.564	495.33	5.240
364.67	6.407	408.33	5.966	452.00	5.560	495.67	5.237
365.00	6.403	408.67	5.963	452.33	5.557	496.00	5.235
365.33	6.399	409.00	5.960	452.67	5.555	496.33	5.235
365.67	6.395	409.33	5.957	453.00	5.552	496.67	5.234
366.00	6.391	409.67	5.954	453.33	5.549	497.00	5.230
366.33	6.388	410.00	5.951	453.67	5.547	497.33	5.226
366.67	6.385	410.33	5.948	454.00	5.544	497.67	5.223
367.00	6.382	410.67	5.945	454.33	5.542	498.00	5.219
367.33	6.379	411.00	5.942	454.67	5.540	498.33	5.217
367.67	6.376	411.33	5.939	455.00	5.537	498.67	5.214
368.00	6.373	411.67	5.937	455.33	5.535	499.00	5.211
368.33	6.370	412.00	5.934	455.67	5.533	499.33	5.209
368.67	6.369	412.33	5.931	456.00	5.530	499.67	5.206
369.00	6.369	412.67	5.927	456.33	5.527	500.00	5.204
369.33	6.364	413.00	5.926	456.67	5.524	500.33	5.202
369.67	6.359	413.33	5.923	457.00	5.521	500.67	5.200
370.00	6.354	413.67	5.918	457.33	5.518	501.00	5.197
370.33	6.350	414.00	5.913	457.67	5.515	501.33	5.195
370.67	6.346	414.33	5.909	458.00	5.515	501.67	5.193
371.00	6.342	414.67	5.905	458.33	5.514	502.00	5.191
371.33	6.338	415.00	5.902	458.67	5.509	502.33	5.189
371.67	6.334	415.33	5.898	459.00	5.505	502.67	5.187
372.00	6.330	415.67	5.895	459.33	5.502	503.00	5.185
372.33	6.326	416.00	5.892	459.67	5.499	503.33	5.183
372.67	6.322	416.33	5.889	460.00	5.496	503.67	5.180
373.00	6.319	416.67	5.886	460.33	5.494	504.00	5.181
373.33	6.316	417.00	5.883	460.67	5.491	504.33	5.180
373.67	6.313	417.33	5.881	461.00	5.489	504.67	5.176
374.00	6.309	417.67	5.878	461.33	5.487	505.00	5.172
374.33	6.306	418.00	5.875	461.67	5.485	505.33	5.169
374.67	6.303	418.33	5.872	462.00	5.482	505.67	5.165
375.00	6.303	418.67	5.869	462.33	5.480	506.00	5.162
375.33	6.302	419.00	5.866	462.67	5.478	506.33	5.160
375.67	6.298	419.33	5.865	463.00	5.476	506.67	5.157
376.00	6.293	419.67	5.863	463.33	5.474	507.00	5.154
376.33	6.288	420.00	5.858	463.67	5.471	507.33	5.152
376.67	6.284	420.33	5.853	464.00	5.469	507.67	5.150
377.00	6.280	420.67	5.849	464.33	5.466	508.00	5.147
377.33	6.277	421.00	5.845	464.67	5.463	508.33	5.145
377.67	6.273	421.33	5.841	465.00	5.461	508.67	5.143
378.00	6.270	421.67	5.838	465.33	5.458	509.00	5.141
378.33	6.266	422.00	5.834	465.67	5.458	509.33	5.139
378.67	6.262	422.33	5.831	466.00	5.457	509.67	5.137
379.00	6.258	422.67	5.828	466.33	5.452	510.00	5.135
379.33	6.255	423.00	5.825	466.67	5.448	510.33	5.133
379.67	6.251	423.33	5.822	467.00	5.445	510.67	5.131
380.00	6.248	423.67	5.819	467.33	5.442	511.00	5.128
380.33	6.244	424.00	5.816	467.67	5.440	511.33	5.126
380.67	6.241	424.33	5.813	468.00	5.437	511.67	5.127
381.00	6.238	424.67	5.810	468.33	5.434	512.00	5.126
381.33	6.238	425.00	5.807	468.67	5.432	512.33	5.122
381.67	6.237	425.33	5.804	469.00	5.430	512.67	5.118
382.00	6.233	425.67	5.803	469.33	5.428	513.00	5.115
382.33	6.228	426.00	5.801	469.67	5.425	513.33	5.112
382.67	6.223	426.33	5.796	470.00	5.423	513.67	5.109
383.00	6.219	426.67	5.792	470.33	5.421	514.00	5.106
383.33	6.216	427.00	5.788	470.67	5.419	514.33	5.103
383.67	6.213	427.33	5.785	471.00	5.417	514.67	5.101
384.00	6.210	427.67	5.781	471.33	5.415	515.00	5.098
384.33	6.206	428.00	5.777	471.67	5.412	515.33	5.096
384.67	6.203	428.33	5.774	472.00	5.410	515.67	5.094
385.00	6.200	428.67	5.770	472.33	5.407	516.00	5.091
385.33	6.196	429.00	5.767	472.67	5.404	516.33	5.089
385.67	6.193	429.33	5.764	473.00	5.401	516.67	5.087
386.00	6.189	429.67	5.761	473.33	5.401	517.00	5.085
386.33	6.185	430.00	5.758	473.67	5.400	517.33	5.083
386.67	6.182	430.33	5.755	474.00	5.395	517.67	5.081
387.00	6.178	430.67	5.752	474.33	5.392	518.00	5.079
387.33	6.175	431.00	5.749	474.67	5.388	518.33	5.077
387.67	6.174	431.33	5.746	475.00	5.385	518.67	5.075
388.00	6.173	431.67	5.745	475.33	5.383	519.00	5.073
388.33	6.169	432.00	5.743	475.67	5.380	519.33	5.073
388.67	6.164	432.33	5.738	476.00	5.378	519.67	5.072
389.00	6.160	432.67	5.734	476.33	5.375	520.00	5.069
389.33	6.156	433.00	5.731	476.67	5.373	520.33	5.065
389.67	6.152	433.33	5.728	477.00	5.371	520.67	5.062
390.00	6.149	433.67	5.724	477.33	5.369	521.00	5.059
390.33	6.146	434.00	5.721	477.67	5.366	521.33	5.056
390.67	6.143	434.33	5.718	478.00	5.364	521.67	5.053
391.00	6.140	434.67	5.714	478.33	5.362	522.00	5.050
391.33	6.137	435.00	5.711	478.67	5.360	522.33	5.048
391.67	6.133	435.33	5.708	479.00	5.358	522.67	5.045
392.00	6.130	435.67	5.705	479.33	5.356	523.00	5.043
392.33	6.126	436.00	5.701	479.67	5.353	523.33	5.041
392.67	6.123	436.33	5.698	480.00	5.351	523.67	5.038

TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
524.00	5.036	567.67	4.746	611.33	4.452	655.00	4.142
524.33	5.034	568.00	4.743	611.67	4.450	655.33	4.139
524.67	5.032	568.33	4.741	612.00	4.448	655.67	4.137
525.00	5.030	568.67	4.739	612.33	4.445	656.00	4.134
525.33	5.028	569.00	4.736	612.67	4.442	656.33	4.131
525.67	5.026	569.33	4.734	613.00	4.439	656.67	4.129
526.00	5.024	569.67	4.731	613.33	4.438	657.00	4.127
526.33	5.021	570.00	4.729	613.67	4.438	657.33	4.127
526.67	5.022	570.33	4.727	614.00	4.434	657.67	4.126
527.00	5.021	570.67	4.727	614.33	4.432	658.00	4.124
527.33	5.018	571.00	4.726	614.67	4.429	658.33	4.122
527.67	5.015	571.33	4.722	615.00	4.426	658.67	4.120
528.00	5.012	571.67	4.719	615.33	4.423	659.00	4.117
528.33	5.009	572.00	4.717	615.67	4.421	659.33	4.115
528.67	5.006	572.33	4.714	616.00	4.419	659.67	4.112
529.00	5.003	572.67	4.712	616.33	4.416	660.00	4.109
529.33	5.001	573.00	4.710	616.67	4.414	660.33	4.106
529.67	4.998	573.33	4.708	617.00	4.412	660.67	4.103
530.00	4.995	573.67	4.706	617.33	4.409	661.00	4.101
530.33	4.993	574.00	4.704	617.67	4.407	661.33	4.098
530.67	4.990	574.33	4.702	618.00	4.405	661.67	4.095
531.00	4.988	574.67	4.700	618.33	4.403	662.00	4.093
531.33	4.986	575.00	4.698	618.67	4.401	662.33	4.090
531.67	4.983	575.33	4.696	619.00	4.398	662.67	4.087
532.00	4.981	575.67	4.694	619.33	4.395	663.00	4.085
532.33	4.979	576.00	4.691	619.67	4.392	663.33	4.085
532.67	4.977	576.33	4.689	620.00	4.392	663.67	4.084
533.00	4.975	576.67	4.687	620.33	4.391	664.00	4.082
533.33	4.973	577.00	4.685	620.67	4.388	664.33	4.080
533.67	4.971	577.33	4.682	621.00	4.385	664.67	4.078
534.00	4.971	577.67	4.680	621.33	4.382	665.00	4.076
534.33	4.971	578.00	4.677	621.67	4.379	665.33	4.074
534.67	4.967	578.33	4.677	622.00	4.377	665.67	4.072
535.00	4.964	578.67	4.676	622.33	4.374	666.00	4.070
535.33	4.962	579.00	4.673	622.67	4.372	666.33	4.067
535.67	4.959	579.33	4.670	623.00	4.369	666.67	4.065
536.00	4.957	579.67	4.668	623.33	4.367	667.00	4.062
536.33	4.954	580.00	4.665	623.67	4.365	667.33	4.060
536.67	4.951	580.33	4.663	624.00	4.363	667.67	4.057
537.00	4.949	580.67	4.661	624.33	4.361	668.00	4.054
537.33	4.946	581.00	4.658	624.67	4.358	668.33	4.051
537.67	4.943	581.33	4.656	625.00	4.356	668.67	4.049
538.00	4.941	581.67	4.654	625.33	4.354	669.00	4.046
538.33	4.938	582.00	4.652	625.67	4.352	669.33	4.044
538.67	4.936	582.33	4.650	626.00	4.349	669.67	4.043
539.00	4.934	582.67	4.648	626.33	4.346	670.00	4.043
539.33	4.931	583.00	4.647	626.67	4.345	670.33	4.040
539.67	4.929	583.33	4.645	627.00	4.345	670.67	4.038
540.00	4.927	583.67	4.643	627.33	4.342	671.00	4.036
540.33	4.925	584.00	4.640	627.67	4.339	671.33	4.034
540.67	4.923	584.33	4.638	628.00	4.336	671.67	4.032
541.00	4.921	584.67	4.636	628.33	4.333	672.00	4.030
541.33	4.921	585.00	4.633	628.67	4.331	672.33	4.028
541.67	4.920	585.33	4.631	629.00	4.328	672.67	4.027
542.00	4.917	585.67	4.628	629.33	4.326	673.00	4.024
542.33	4.914	586.00	4.627	629.67	4.323	673.33	4.022
542.67	4.912	586.33	4.627	630.00	4.321	673.67	4.020
543.00	4.909	586.67	4.624	630.33	4.319	674.00	4.017
543.33	4.907	587.00	4.621	630.67	4.316	674.33	4.015
543.67	4.905	587.33	4.618	631.00	4.314	674.67	4.012
544.00	4.902	587.67	4.616	631.33	4.312	675.00	4.009
544.33	4.900	588.00	4.614	631.67	4.310	675.33	4.006
544.67	4.897	588.33	4.611	632.00	4.308	675.67	4.004
545.00	4.895	588.67	4.609	632.33	4.305	676.00	4.001
545.33	4.892	589.00	4.607	632.67	4.302	676.33	4.001
545.67	4.890	589.33	4.605	633.00	4.300	676.67	4.000
546.00	4.887	589.67	4.603	633.33	4.300	677.00	3.998
546.33	4.885	590.00	4.601	633.67	4.299	677.33	3.996
546.67	4.882	590.33	4.599	634.00	4.296	677.67	3.993
547.00	4.880	590.67	4.596	634.33	4.293	678.00	3.991
547.33	4.878	591.00	4.594	634.67	4.290	678.33	3.989
547.67	4.876	591.33	4.592	635.00	4.288	678.67	3.988
548.00	4.874	591.67	4.590	635.33	4.285	679.00	3.986
548.33	4.871	592.00	4.587	635.67	4.283	679.33	3.984
548.67	4.872	592.33	4.585	636.00	4.280	679.67	3.982
549.00	4.871	592.67	4.582	636.33	4.278	680.00	3.980
549.33	4.868	593.00	4.581	636.67	4.275	680.33	3.978
549.67	4.865	593.33	4.580	637.00	4.273	680.67	3.975
550.00	4.862	593.67	4.577	637.33	4.271	681.00	3.973
550.33	4.860	594.00	4.574	637.67	4.269	681.33	3.970
550.67	4.858	594.33	4.572	638.00	4.266	681.67	3.967
551.00	4.855	594.67	4.569	638.33	4.264	682.00	3.965
551.33	4.853	595.00	4.567	638.67	4.262	682.33	3.962
551.67	4.851	595.33	4.564	639.00	4.259	682.67	3.960
552.00	4.849	595.67	4.562	639.33	4.257	683.00	3.959
552.33	4.846	596.00	4.560	639.67	4.256	683.33	3.958
552.67	4.844	596.33	4.558	640.00	4.256	683.67	3.956
553.00	4.841	596.67	4.555	640.33	4.253	684.00	3.953
553.33	4.839	597.00	4.553	640.67	4.250	684.33	3.951
553.67	4.836	597.33	4.551	641.00	4.248	684.67	3.949
554.00	4.834	597.67	4.549	641.33	4.245	685.00	3.947
554.33	4.832	598.00	4.547	641.67	4.242	685.33	3.945
554.67	4.829	598.33	4.544	642.00	4.240	685.67	3.943
555.00	4.827	598.67	4.542	642.33	4.237	686.00	3.942
555.33	4.825	599.00	4.539	642.67	4.235	686.33	3.940
555.67	4.823	599.33	4.536	643.00	4.232	686.67	3.938
556.00	4.823	599.67	4.533	643.33	4.230	687.00	3.936
556.33	4.822	600.00	4.532	643.67	4.228	687.33	3.934
556.67	4.819	600.33	4.532	644.00	4.225	687.67	3.932
557.00	4.816	600.67	4.529	644.33	4.223	688.00	3.929
557.33	4.813	601.00	4.526	644.67	4.221	688.33	3.926
557.67	4.811	601.33	4.523	645.00	4.218	688.67	3.923
558.00	4.809	601.67	4.521	645.33	4.215	689.00	3.921
558.33	4.806	602.00	4.518	645.67	4.213	689.33	3.918
558.67	4.804	602.33	4.516	646.00	4.212	689.67	3.918
559.00	4.802	602.67	4.513	646.33	4.211	690.00	3.917
559.33	4.800	603.00	4.511	646.67	4.208	690.33	3.914
559.67	4.798	603.33	4.509	647.00	4.205	690.67	3.912
560.00	4.796	603.67	4.506	647.33	4.202	691.00	3.910
560.33	4.793	604.00	4.504	647.67	4.199	691.33	3.907
560.67	4.791	604.33	4.502	648.00	4.196	691.67	3.905
561.00	4.789	604.67	4.500	648.33	4.194	692.00	3.903
561.33	4.786	605.00	4.497	648.67	4.191	692.33	3.902
561.67	4.784	605.33	4.495	649.00	4.188	692.67	3.900
562.00	4.781	605.67	4.492	649.33	4.186	693.00	3.898
562.33	4.779	606.00	4.489	649.67	4.183	693.33	3.896
562.67	4.777	606.33	4.486	650.00	4.181	693.67	3.894
563.00	4.774	606.67	4.485	650.33	4.178	694.00	3.892
563.33	4.774	607.00	4.485	650.67	4.176	694.33	3.890
563.67	4.774	607.33	4.481	651.00	4.173	694.67	3.888
564.00	4.770	607.67	4.479	651.33	4.170	695.00	3.885
564.33	4.767	608.00	4.476	651.67	4.170	695.33	3.882
564.67	4.765	608.33	4.473	652.00	4.169	695.67	3.880
565.00	4.762	608.67	4.471	652.33	4.166	696.00	3.877
565.33	4.760	609.00	4.468	652.67	4.163	696.33	3.877
565.67	4.758	609.33	4.466	653.00	4.159	696.67	3.876
566.00	4.756	609.67	4.463	653.33	4.156	697.00	3.873
566.33	4.754	610.00	4.461	653.67	4.153	697.33	3.871
566.67	4.752	610.33	4.459	654.00	4.150	697.67	3.868
567.00	4.750	610.67	4.457	654.33	4.147	698.00	3.866
567.33	4.748	611.00	4.454	654.67	4.144	698.33	3.864

TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
698.67	3.862	742.33	3.606	786.00	2.932	829.67	2.229
699.00	3.860	742.67	3.605	786.33	2.926	830.00	2.224
699.33	3.858	743.00	3.603	786.67	2.920	830.33	2.219
699.67	3.857	743.33	3.601	787.00	2.914	830.67	2.214
700.00	3.855	743.67	3.599	787.33	2.908	831.00	2.209
700.33	3.853	744.00	3.597	787.67	2.901	831.33	2.203
700.67	3.851	744.33	3.594	788.00	2.894	831.67	2.197
701.00	3.849	744.67	3.592	788.33	2.888	832.00	2.191
701.33	3.847	745.00	3.590	788.67	2.883	832.33	2.185
701.67	3.845	745.33	3.588	789.00	2.877	832.67	2.179
702.00	3.842	745.67	3.586	789.33	2.870	833.00	2.172
702.33	3.839	746.00	3.584	789.67	2.863	833.33	2.165
702.67	3.837	746.33	3.582	790.00	2.858	833.67	2.158
703.00	3.836	746.67	3.580	790.33	2.852	834.00	2.151
703.33	3.835	747.00	3.578	790.67	2.846	834.33	2.144
703.67	3.833	747.33	3.576	791.00	2.839	834.67	2.136
704.00	3.830	747.67	3.573	791.33	2.833	835.00	2.128
704.33	3.828	748.00	3.571	791.67	2.827	835.33	2.120
704.67	3.825	748.33	3.569	792.00	2.822	835.67	2.112
705.00	3.823	748.67	3.568	792.33	2.816	836.00	2.103
705.33	3.821	749.00	3.567	792.67	2.809	836.33	2.093
705.67	3.819	749.33	3.565	793.00	2.803	836.67	2.084
706.00	3.818	749.67	3.562	793.33	2.797	837.00	2.073
706.33	3.816	750.00	3.560	793.67	2.792	837.33	2.063
706.67	3.814	750.33	3.557	794.00	2.786	837.67	2.052
707.00	3.812	750.67	3.554	794.33	2.779	838.00	2.041
707.33	3.811	751.00	3.552	794.67	2.773	838.33	2.029
707.67	3.809	751.33	3.549	795.00	2.767	838.67	2.017
708.00	3.807	751.67	3.546	795.33	2.762	839.00	2.004
708.33	3.804	752.00	3.543	795.67	2.756	839.33	1.991
708.67	3.802	752.33	3.540	796.00	2.750	839.67	1.977
709.00	3.799	752.67	3.536	796.33	2.744	840.00	1.963
709.33	3.797	753.00	3.533	796.67	2.738	840.33	1.949
709.67	3.796	753.33	3.531	797.00	2.733	840.67	1.934
710.00	3.795	753.67	3.529	797.33	2.727	841.00	1.918
710.33	3.792	754.00	3.526	797.67	2.721	841.33	1.902
710.67	3.790	754.33	3.522	798.00	2.715	841.67	1.885
711.00	3.788	754.67	3.518	798.33	2.709	842.00	1.868
711.33	3.785	755.00	3.514	798.67	2.704	842.33	1.851
711.67	3.783	755.33	3.510	799.00	2.698	842.67	1.832
712.00	3.781	755.67	3.505	799.33	2.692	843.00	1.814
712.33	3.779	756.00	3.501	799.67	2.686	843.33	1.795
712.67	3.777	756.33	3.497	800.00	2.681	843.67	1.775
713.00	3.775	756.67	3.494	800.33	2.675	844.00	1.755
713.33	3.773	757.00	3.491	800.67	2.670	844.33	1.735
713.67	3.772	757.33	3.486	801.00	2.664	844.67	1.714
714.00	3.770	757.67	3.480	801.33	2.658	845.00	1.694
714.33	3.768	758.00	3.475	801.67	2.652	845.33	1.671
714.67	3.766	758.33	3.469	802.00	2.647	845.67	1.647
715.00	3.764	758.67	3.464	802.33	2.642	846.00	1.621
715.33	3.762	759.00	3.459	802.67	2.636	846.33	1.595
715.67	3.760	759.33	3.456	803.00	2.630	846.67	1.570
716.00	3.757	759.67	3.452	803.33	2.625	847.00	1.545
716.33	3.756	760.00	3.446	803.67	2.620	847.33	1.519
716.67	3.755	760.33	3.439	804.00	2.614	847.67	1.493
717.00	3.753	760.67	3.433	804.33	2.608	848.00	1.467
717.33	3.750	761.00	3.428	804.67	2.602	848.33	1.441
717.67	3.748	761.33	3.423	805.00	2.597	848.67	1.416
718.00	3.745	761.67	3.418	805.33	2.592	849.00	1.391
718.33	3.743	762.00	3.413	805.67	2.587	849.33	1.367
718.67	3.741	762.33	3.407	806.00	2.581	849.67	1.343
719.00	3.739	762.67	3.400	806.33	2.575	850.00	1.320
719.33	3.737	763.00	3.394	806.67	2.570	850.33	1.297
719.67	3.735	763.33	3.389	807.00	2.565	850.67	1.274
720.00	3.734	763.67	3.384	807.33	2.559	851.00	1.251
720.33	3.732	764.00	3.378	807.67	2.554	851.33	1.229
720.67	3.730	764.33	3.371	808.00	2.548	851.67	1.207
721.00	3.728	764.67	3.365	808.33	2.543	852.00	1.185
721.33	3.727	765.00	3.358	808.67	2.538	852.33	1.163
721.67	3.725	765.33	3.352	809.00	2.533	852.67	1.142
722.00	3.723	765.67	3.347	809.33	2.527	853.00	1.120
722.33	3.721	766.00	3.340	809.67	2.522	853.33	1.098
722.67	3.718	766.33	3.331	810.00	2.517	853.67	1.077
723.00	3.718	766.67	3.324	810.33	2.512	854.00	1.055
723.33	3.717	767.00	3.317	810.67	2.506	854.33	1.034
723.67	3.714	767.33	3.311	811.00	2.501	854.67	1.013
724.00	3.712	767.67	3.304	811.33	2.495	855.00	0.992
724.33	3.709	768.00	3.296	811.67	2.490	855.33	0.971
724.67	3.707	768.33	3.288	812.00	2.486	855.67	0.950
725.00	3.705	768.67	3.282	812.33	2.480	856.00	0.929
725.33	3.702	769.00	3.274	812.67	2.475	856.33	0.909
725.67	3.700	769.33	3.265	813.00	2.470	856.67	0.889
726.00	3.698	769.67	3.258	813.33	2.465	857.00	0.869
726.33	3.697	770.00	3.251	813.67	2.460	857.33	0.849
726.67	3.695	770.33	3.245	814.00	2.455	857.67	0.830
727.00	3.693	770.67	3.238	814.33	2.449	858.00	0.810
727.33	3.691	771.00	3.229	814.67	2.444	858.33	0.791
727.67	3.690	771.33	3.222	815.00	2.439	858.67	0.772
728.00	3.688	771.67	3.216	815.33	2.434	859.00	0.754
728.33	3.686	772.00	3.210	815.67	2.429	859.33	0.735
728.67	3.684	772.33	3.203	816.00	2.424	859.67	0.717
729.00	3.682	772.67	3.195	816.33	2.419	860.00	0.700
729.33	3.680	773.00	3.188	816.67	2.414	860.33	0.682
729.67	3.680	773.33	3.181	817.00	2.409	860.67	0.662
730.00	3.677	773.67	3.176	817.33	2.404	861.00	0.639
730.33	3.675	774.00	3.168	817.67	2.399	861.33	0.617
730.67	3.672	774.33	3.161	818.00	2.394	861.67	0.596
731.00	3.670	774.67	3.154	818.33	2.389	862.00	0.577
731.33	3.668	775.00	3.147	818.67	2.385	862.33	0.558
731.67	3.666	775.33	3.142	819.00	2.380	862.67	0.541
732.00	3.664	775.67	3.135	819.33	2.375	863.00	0.524
732.33	3.662	776.00	3.127	819.67	2.370	863.33	0.507
732.67	3.660	776.33	3.120	820.00	2.365	863.67	0.489
733.00	3.658	776.67	3.114	820.33	2.361	864.00	0.471
733.33	3.656	777.00	3.108	820.67	2.356	864.33	0.455
733.67	3.655	777.33	3.101	821.00	2.350	864.67	0.440
734.00	3.653	777.67	3.094	821.33	2.346	865.00	0.426
734.33	3.651	778.00	3.087	821.67	2.341	865.33	0.413
734.67	3.649	778.33	3.081	822.00	2.337	865.67	0.400
735.00	3.647	778.67	3.075	822.33	2.332	866.00	0.389
735.33	3.645	779.00	3.068	822.67	2.327	866.33	0.377
735.67	3.643	779.33	3.061	823.00	2.322	866.67	0.366
736.00	3.642	779.67	3.054	823.33	2.317	867.00	0.356
736.33	3.641	780.00	3.048	823.67	2.313	867.33	0.346
736.67	3.639	780.33	3.042	824.00	2.308	867.67	0.336
737.00	3.637	780.67	3.035	824.33	2.303	868.00	0.327
737.33	3.635	781.00	3.028	824.67	2.299	868.33	0.317
737.67	3.632	781.33	3.021	825.00	2.294	868.67	0.309
738.00	3.630	781.67	3.015	825.33	2.290	869.00	0.300
738.33	3.628	782.00	3.010	825.67	2.285	869.33	0.292
738.67	3.626	782.33	3.003	826.00	2.280	869.67	0.284
739.00	3.624	782.67	2.996	826.33	2.275	870.00	0.276
739.33	3.622	783.00	2.989	826.67	2.271	870.33	0.268
739.67	3.620	783.33	2.983	827.00	2.267	870.67	0.261
740.00	3.618	783.67	2.977	827.33	2.262	871.00	0.254
740.33	3.616	784.00	2.971	827.67	2.257	871.33	0.247
740.67	3.614	784.33	2.964	828.00	2.252	871.67	0.240
741.00	3.612	784.67	2.957	828.33	2.248	872.00	0.233
741.33	3.610	785.00	2.951	828.67	2.244	872.33	0.227
741.67	3.608	785.33	2.946	829.00	2.239	872.67	0.220
742.00	3.606	785.67	2.939	829.33	2.234	873.00	0.214

TIME hrs	FLOW cms	TIME hrs	FLOW cms
873.33	0.208	917.00	0.002
873.67	0.202	917.33	0.002
874.00	0.196	917.67	0.002
874.33	0.191	918.00	0.002
874.67	0.185	918.33	0.001
875.00	0.180	918.67	0.001
875.33	0.175	919.00	0.001
875.67	0.170	919.33	0.001
876.00	0.165	919.67	0.001
876.33	0.160	920.00	0.001
876.67	0.155	920.33	0.001
877.00	0.151	920.67	0.001
877.33	0.146	921.00	0.001
877.67	0.142	921.33	0.001
878.00	0.137	921.67	0.001
878.33	0.133	922.00	0.001
878.67	0.129	922.33	0.001
879.00	0.125	922.67	0.001
879.33	0.121	923.00	0.001
879.67	0.117	923.33	0.001
880.00	0.114	923.67	0.001
880.33	0.110	924.00	0.001
880.67	0.107	924.33	0.001
881.00	0.103	924.67	0.001
881.33	0.100	925.00	0.001
881.67	0.097	925.33	0.001
882.00	0.094	925.67	0.001
882.33	0.091	926.00	0.001
882.67	0.088	926.33	0.001
883.00	0.085	926.67	0.001
883.33	0.083	927.00	0.000
883.67	0.080	927.33	0.000
884.00	0.078	927.67	0.000
884.33	0.075	928.00	0.000
884.67	0.073	928.33	0.000
885.00	0.071	928.67	0.000
885.33	0.069	929.00	0.000
885.67	0.067	929.33	0.000
886.00	0.064	929.67	0.000
886.33	0.062	930.00	0.000
886.67	0.060	930.33	0.000
887.00	0.059	930.67	0.000
887.33	0.057	931.00	0.000
887.67	0.055	931.33	0.000
888.00	0.053	931.67	0.000
888.33	0.051	932.00	0.000
888.67	0.050	932.33	0.000
889.00	0.048	932.67	0.000
889.33	0.046	933.00	0.000
889.67	0.045	933.33	0.000
890.00	0.043	933.67	0.000
890.33	0.042	934.00	0.000
890.67	0.040	934.33	0.000
891.00	0.039	934.67	0.000
891.33	0.037	935.00	0.000
891.67	0.036	935.33	0.000
892.00	0.035	935.67	0.000
892.33	0.034	936.00	0.000
892.67	0.032	936.33	0.000
893.00	0.031	936.67	0.000
893.33	0.030	937.00	0.000
893.67	0.029	937.33	0.000
894.00	0.028	937.67	0.000
894.33	0.027	938.00	0.000
894.67	0.026	938.33	0.000
895.00	0.025	938.67	0.000
895.33	0.024	939.00	0.000
895.67	0.023	939.33	0.000
896.00	0.022	939.67	0.000
896.33	0.022	940.00	0.000
896.67	0.021	940.33	0.000
897.00	0.020	940.67	0.000
897.33	0.019	941.00	0.000
897.67	0.018	941.33	0.000
898.00	0.018	941.67	0.000
898.33	0.017	942.00	0.000
898.67	0.016	942.33	0.000
899.00	0.016	942.67	0.000
899.33	0.015	943.00	0.000
899.67	0.015	943.33	0.000
900.00	0.014	943.67	0.000
900.33	0.013	944.00	0.000
900.67	0.013	944.33	0.000
901.00	0.012	944.67	0.000
901.33	0.012	945.00	0.000
901.67	0.011	945.33	0.000
902.00	0.011	945.67	0.000
902.33	0.011	946.00	0.000
902.67	0.010	946.33	0.000
903.00	0.010	946.67	0.000
903.33	0.009	947.00	0.000
903.67	0.009	947.33	0.000
904.00	0.009	947.67	0.000
904.33	0.008	948.00	0.000
904.67	0.008	948.33	0.000
905.00	0.008	948.67	0.000
905.33	0.007	949.00	0.000
905.67	0.007	949.33	0.000
906.00	0.007	949.67	0.000
906.33	0.007	950.00	0.000
906.67	0.006	950.33	0.000
907.00	0.006	950.67	0.000
907.33	0.006	951.00	0.000
907.67	0.006	951.33	0.000
908.00	0.005	951.67	0.000
908.33	0.005	952.00	0.000
908.67	0.005	952.33	0.000
909.00	0.005	952.67	0.000
909.33	0.004	953.00	0.000
909.67	0.004	953.33	0.000
910.00	0.004	953.67	0.000
910.33	0.004	954.00	0.000
910.67	0.004	954.33	0.000
911.00	0.004	954.67	0.000
911.33	0.003	955.00	0.000
911.67	0.003	955.33	0.000
912.00	0.003	955.67	0.000
912.33	0.003	956.00	0.000
912.67	0.003	956.33	0.000
913.00	0.003	956.67	0.000
913.33	0.003	957.00	0.000
913.67	0.003	957.33	0.000
914.00	0.002	957.67	0.000
914.33	0.002	958.00	0.000
914.67	0.002	958.33	0.000
915.00	0.002	958.67	0.000
915.33	0.002	959.00	0.000
915.67	0.002	959.33	0.000
916.00	0.002	959.67	0.000
916.33	0.002	960.00	0.000
916.67	0.002	960.33	0.000

S_N2 (JR SPRING)



Hydrograph Statistics:

Legend	Filename & Comment	Time Step (min)	Drainage Area (ha)	Peak Flow (cms)	Time to Peak (hrs)	Runoff Volume (mm)	Runoff Volume (cu.m)	Duration of flow (hrs)	Average flow (cms)
——○——	H-S_N2.100 : flow at S_N2 - Jock River at Moodie	20.00	52298.00	206.287	137.667	169.40	8.859E+07	300.000	82.030

Hydrograph Table:

Hydrograph Filename : Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\JRSPRI~1\H-S_N2.100
Comment in file : flow at S_N2 - Jock River at Moodie

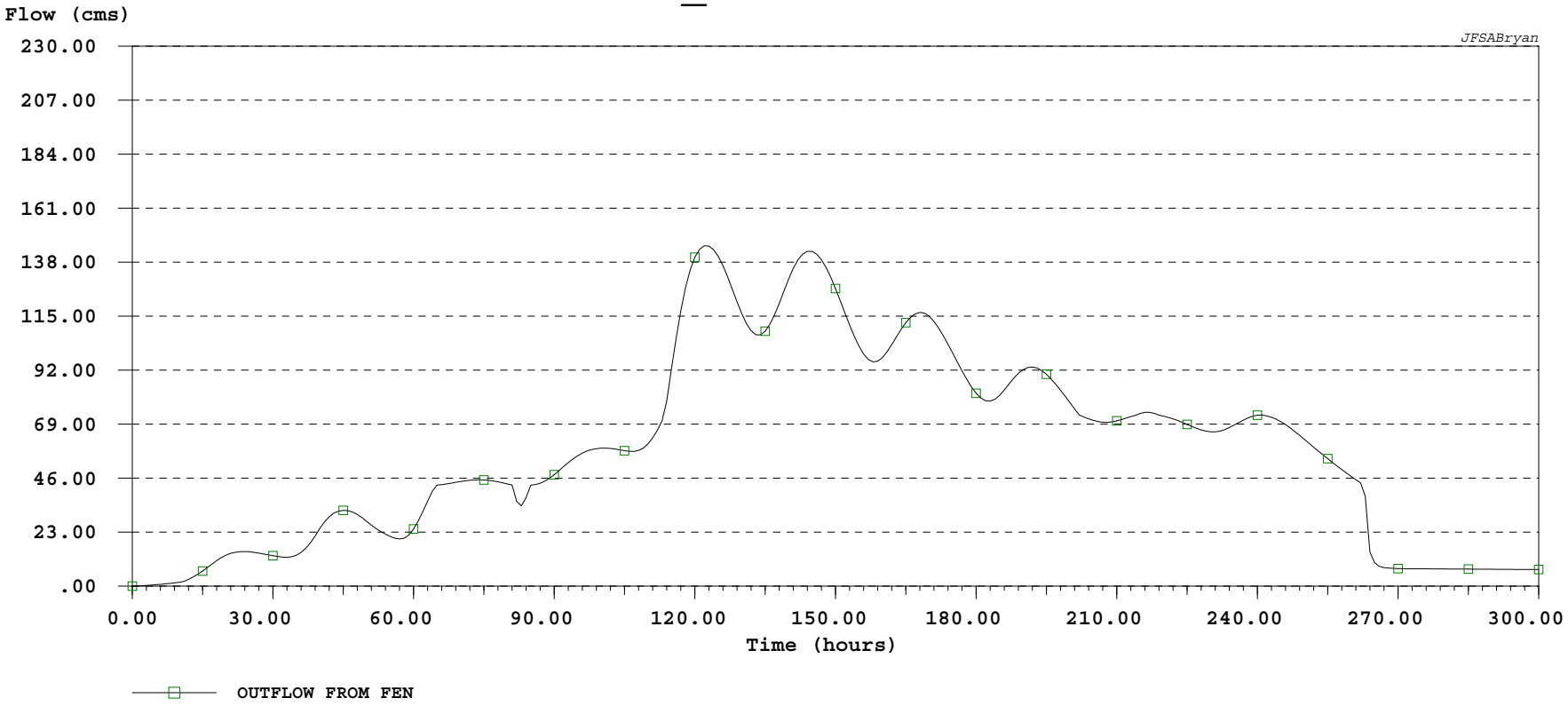
TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
0.00	0.000	43.67	43.296	87.33	92.048	131.00	165.293	174.67	122.597	218.33	89.266
0.33	0.130	44.00	43.650	87.67	93.815	131.33	167.987	175.00	121.298	218.67	88.899
0.67	0.270	44.33	43.922	88.00	95.455	131.67	170.825	175.33	119.961	219.00	88.422
1.00	0.421	44.67	44.136	88.33	96.632	132.00	173.723	175.67	118.642	219.33	87.765
1.33	0.450	45.00	44.203	88.67	97.608	132.33	176.452	176.00	117.300	219.67	87.426
1.67	0.478	45.33	44.200	89.00	98.437	132.67	179.394	176.33	116.460	220.00	87.009
2.00	0.509	45.67	44.173	89.33	98.840	133.00	182.421	176.67	115.928	220.33	86.410
2.33	0.544	46.00	44.037	89.67	98.883	133.33	185.185	177.00	115.441	220.67	86.099
2.67	0.581	46.33	43.854	90.00	98.784	133.67	187.992	177.33	115.527	221.00	85.723
3.00	0.620	46.67	43.612	90.33	98.349	134.00	190.922	177.67	115.623	221.33	85.199
3.33	0.659	47.00	43.306	90.67	97.588	134.33	193.357	178.00	116.176	221.67	84.940
3.67	0.698	47.33	42.988	91.00	96.648	134.67	195.741	178.33	116.970	222.00	84.603
4.00	0.737	47.67	42.689	91.33	95.490	135.00	198.247	178.67	117.735	222.33	84.108
4.33	0.776	48.00	42.320	91.67	94.336	135.33	200.129	179.00	118.703	222.67	83.868
4.67	0.815	48.33	41.923	92.00	93.003	135.67	201.857	179.33	119.830	223.00	83.576
5.00	0.853	48.67	41.490	92.33	91.705	136.00	203.573	179.67	121.122	223.33	83.127
5.33	0.891	49.00	41.030	92.67	90.373	136.33	204.675	180.00	122.344	223.67	82.893
5.67	0.929	49.33	40.560	93.00	88.990	136.67	205.432	180.33	123.650	224.00	82.631
6.00	0.966	49.67	40.009	93.33	87.701	137.00	206.261	180.67	125.087	224.33	82.654
6.33	1.002	50.00	39.441	93.67	86.429	137.33	206.257	181.00	126.573	224.67	82.949
6.67	1.033	50.33	38.861	94.00	85.128	137.67	206.287	181.33	127.800	225.00	83.402
7.00	1.059	50.67	38.269	94.33	83.984	138.00	205.937	181.67	128.983	225.33	84.337
7.33	1.109	51.00	37.646	94.67	82.874	138.33	204.447	182.00	130.229	225.67	85.489
7.67	1.163	51.33	36.997	95.00	81.764	138.67	202.969	182.33	131.250	226.00	86.578
8.00	1.221	51.67	36.355	95.33	80.816	139.00	201.804	182.67	132.197	226.33	88.025
8.33	1.300	52.00	35.740	95.67	79.892	139.33	200.045	183.00	133.093	226.67	89.638
8.67	1.389	52.33	35.149	96.00	78.984	139.67	198.100	183.33	133.903	227.00	91.330
9.00	1.487	52.67	34.575	96.33	78.205	140.00	196.441	183.67	134.261	227.33	93.273
9.33	1.609	53.00	34.015	96.67	77.482	140.33	194.574	184.00	134.701	227.67	95.246
9.67	1.746	53.33	33.471	97.00	76.745	140.67	192.183	184.33	135.140	228.00	97.300
10.00	1.894	53.67	32.935	97.33	76.093	141.00	190.373	184.67	135.311	228.33	99.303
10.33	2.071	54.00	32.407	97.67	75.498	141.33	188.598	185.00	135.170	228.67	101.340
10.67	2.263	54.33	31.898	98.00	74.935	141.67	186.377	185.33	134.847	229.00	103.414
11.00	2.472	54.67	31.406	98.33	74.420	142.00	184.894	185.67	134.617	229.33	105.288
11.33	2.720	55.00	30.934	98.67	73.952	142.33	183.492	186.00	134.147	229.67	107.104
11.67	2.981	55.33	30.530	99.00	73.444	142.67	181.475	186.33	133.306	230.00	108.904
12.00	3.243	55.67	30.163	99.33	73.172	143.00	180.115	186.67	132.373	230.33	110.377
12.33	3.529	56.00	29.829	99.67	72.821	143.33	178.989	187.00	131.390	230.67	111.759
12.67	3.840	56.33	29.720	100.00	72.358	143.67	177.354	187.33	130.299	231.00	113.190
13.00	4.179	56.67	29.694	100.33	72.144	144.00	176.067	187.67	129.365	231.33	113.981
13.33	4.550	57.00	29.756	100.67	71.903	144.33	174.913	188.00	128.209	231.67	114.703
13.67	4.952	57.33	30.045	101.00	71.522	144.67	173.544	188.33	126.846	232.00	115.506
14.00	5.389	57.67	30.437	101.33	71.306	145.00	172.484	188.67	125.841	232.33	115.873
14.33	5.853	58.00	30.922	101.67	71.099	145.33	171.283	189.00	124.675	232.67	116.196
14.67	6.316	58.33	31.596	102.00	70.794	145.67	169.832	189.33	123.390	233.00	116.192
15.00	6.773	58.67	32.401	102.33	70.608	146.00	168.961	189.67	122.551	233.33	115.865
15.33	7.240	59.00	33.330	102.67	70.577	146.33	167.735	190.00	121.617	233.67	115.471
15.67	7.755	59.33	34.418	103.00	70.529	146.67	166.367	190.33	120.490	234.00	114.930
16.00	8.322	59.67	35.646	103.33	71.217	147.00	165.064	190.67	119.641	234.33	114.042
16.33	8.888	60.00	37.030	103.67	72.338	147.33	163.821	191.00	118.695	234.67	112.931
16.67	9.454	60.33	38.531	104.00	73.524	147.67	162.499	191.33	117.733	235.00	111.912
17.00	10.041	60.67	40.162	104.33	75.600	148.00	161.111	191.67	117.111	235.33	110.661
17.33	10.646	61.00	41.913	104.67	78.164	148.33	159.659	192.00	116.293	235.67	109.273
17.67	11.275	61.33	43.631	105.00	80.905	148.67	158.267	192.33	115.327	236.00	107.799
18.00	11.901	61.67	45.398	105.33	84.358	149.00	156.765	192.67	114.722	236.33	106.395
18.33	12.494	62.00	47.309	105.67	88.145	149.33	155.263	193.00	113.970	236.67	104.962
18.67	13.088	62.33	49.229	106.00	92.266	149.67	153.702	193.33	113.029	237.00	103.509
19.00	13.680	62.67	51.224	106.33	96.964	150.00	152.101	193.67	112.453	237.33	102.179
19.33	14.240	63.00	53.327	106.67	101.993	150.33	150.435	194.00	111.732	237.67	100.848
19.67	14.748	63.33	55.387	107.00	107.310	150.67	148.764	194.33	110.954	238.00	99.477
20.00	15.226	63.67	57.482	107.33	112.911	151.00	147.091	194.67	110.176	238.33	98.283
20.33	15.709	64.00	59.577	107.67	118.643	151.33	145.557	195.00	109.415	238.67	97.158
20.67	16.167	64.33	61.379	108.00	124.406	151.67	144.023	195.33	108.660	239.00	96.014
21.00	16.586	64.67	63.029	108.33	130.103	152.00	142.583	195.67	107.879	239.33	93.676
21.33	16.978	65.00	64.645	108.67	135.973	152.33	141.845	196.00	107.055	239.67	90.622
21.67	17.337	65.33	66.015	109.00	142.017	152.67	141.238	196.33	106.253	240.00	87.254
22.00	17.661	65.67	67.216	109.33	147.750	153.00	140.965	196.67	105.426	240.33	85.249
22.33	17.959	66.00	68.227	109.67	153.414	153.33	140.985	197.00	104.579	240.67	83.774
22.67	18.221	66.33	68.878	110.00	158.972	153.67	141.799	197.33	103.719	241.00	82.553
23.00	18.445	66.67	69.278	110.33	163.787	154.00	142.630	197.67	102.859	241.33	81.564
23.33	18.646	67.00	69.495	110.67	168.452	154.33	143.397	198.00	101.973	241.67	80.638
23.67	18.815	67.33	69.365	111.00	173.106	154.67	144.657	198.33	101.070	242.00	79.913
24.00	18.965	67.67	69.004	111.33	176.915	155.00	146.324	198.67	100.124	242.33	79.230
24.33	19.073	68.00	68.569	111.67	180.395	155.33	147.965	199.00	99.212	242.67	78.568
24.67	19.150	68.33	68.020	112.00	183.703	155.67	149.353	199.33	98.305	243.00	77.946
25.00	19.212	68.67	67.443	112.33	185.960	156.00	151.169	199.67	97.387	243.33	77.351
25.33	19.251	69.00	66.743	112.67	187.761	156.33	153.027	200.00	96.450	243.67	76.786
25.67	19.281	69.33	66.059	113.00	189.281	156.67	154.821	200.33	95.774	244.00	76.234
26.00	19.282	69.67	65.336	113.33	189.939	157.00	156.649	200.67	95.234	244.33	75.714
26.33	19.266	70.00	64.588	113.67	189.706	157.33	158.425	201.00	94.700	244.67	75.206
26.67	19.230	70.33	63.890	114.00	189.341	157.67	160.093	201.33	94.643	245.00	74.716
27.00	19.177	70.67	63.198	114.33	188.651	158.00	161.725	201.67	94.620	245.33	74.228
27.33	19.113	71.00	62.485	114.67	187.323	158.33	163.160	202.00	94.946	245.67	73.730
27.67	19.035	71.33	61.836	115.00	185.549	158.67	164.588	202.33	95.512	246.00	73.224
28.00	18.945	71.67	61.203	115.33	183.974	159.00	165.996	202.67	96.109	246.33	72.699
28.33	18.867	72.00	60.581	115.67	182.798	159.33	166.966	203.00	96.941	246.67	72.190
28.67	18.769	72.33	60.029	116.00	181.396	159.67	167.884	203.33	97.982	247.00	71.679
29.00	18.651	72.67	59.491	116.33	179.951	160.00	168.799	203.67	99.032	247.33	71.166
29.33	18.523	73.00	58.971	116.67	178.869	160.33	169.251	204.00	100.366	247.67	70.637
29.67	18.392	73.33	58.501	117.00	178.074	160.67	169.455	204.33	101.737	248.00	70.094
30.00	18.253	73.67	58.062	117.33	177.071	161.00	169.904	204.67	103.144	248.33	69.543
30.33	18.112	74.00	57.634	117.67	176.366	161.33	169.713	205.00	104.587	248.67	68.994
30.67	17.968	74.33	57.252	118.00	175.966	161.67	169.276	205.33	105.925	249.00	68.439
31.00	17.824	74.67	56.889	118.33	175.213	162.00	168.455	205.67	107.225	249.33	67.886
31.33	17.715	75.00	56.540	118.67	174.700	162.33	167.305	206.00	108.539	249.67	67.332
31.67	17.616	75.33	56.210	119.00	174.513	162.67	166.332	206.33	109.627	250.00	66.777
32.00	17.529	75.67	55.895	119.33	174.073	163.00	165.105	206.67	110.600	250.33	66.219
32.33	17.526	76.00	55.594	119.67	173.728	163.33	163.656	207.00	111.588	250.67	65.660
32.67	17.560	76.33	55.324	120.00	173.499	163.67	162.407	207.33	112.276	251.00	65.096
33.00	17.610	76.67	54.989	120.33	173.380	164.00	160.800	207.67	112.890	251.33	64.531
33.33	17.770	77.00	54.760	120.67	173.188	164.33	158.872	208.00	113.438	251.67	63.964
33.67	17.986	77.33	54.537	121.00	172.500	164.67	157.512	208.33	113.784	252.00	63.398
34.00	18.247	77.67	54.236	121.33	172.125	165.00	155.876	208.67	113.754	252.33	62.830
34.33	18.584	78.00	54.044	121.67	171.977	165.33	154.004	209.00	113.747	252.67	62.265
34.67	18.976	78.33	53.864	122.00	171.448	165.67	152.882	209.33	113.542	253.00	61.702
35.00	19.439	78.67	53.614	122.33	170.835	166.00	151.616	209.67	113.051	253.33	61.143
35.33	19.983	79.00	53.472	122.67	170.094	166.33	150.010	210.00	112.485	253.67	60.584
35.67	20.589	79.33	53.531	123.00	169.269	166.67	148.893	210.33	111.651	254.00	60.022
36.00	21.257	79.67	53.604	123.33	168.885	167.00	147.649	210.67	110.821	254.33	59.457
36.33	21.983	80.00	53.749	123.67	168.148	167.33	146.330	211.00	109.803	254.67	58.904
36.67	22.771	80.33	54.332	124.00	166.941	167.67	145.517	211.33	108.662	255.00	58.357
37.00	23.629	80.67	55.118	124.33	166.382	168.00	144.450	211.67	107.453	255.33	57.807
37.33	24.530	81.00	55.931	124.67	165.444	168.33	143.174	212.00	106.173	255.67	57.254
37.67	25.459	81.33	57.123	125.00	164.277	168.67	142.404	212.33	104.904	256.00	56.707
38.00	26.465	81.67	58.360	125.33	163.085	169.00	141.425	212.67	103.685	256.33	56.167
38.33	27.532	82.00	59.581	125.67	161.915	169.33	140.196	213.00	102.392	256.67	55.631
38.67	28.635	82.33	60.941	126.00	160.537	169.67	139.474	213.33	101.201	257.00	55.103
39.00	29.782	82.67	62.314	126.33	159.200	170.00	138.523	213.67	100.016	257.33	54.579
39.33	30.916	83.00	63.668	126.67	157.777	170.33	137.500	214.00	98.809	257.67	54.061
39.67	32.100	83.33	65.044	127.00	156.315	170.67	136.462	214.33	97.739	258.00	53.539
40.00	33.341	83.67	66.528	127.33	155.362	171.00	135.443	214.67	96.720	258.33	53.003
40.33	34.538	84.00	68.165	127.67	154.557	171.33	134.428	215.00	95.729	258.67	52.440
40.67	35.743	84.33	70.024	128.00	153.828	171.67	133.382	215.33	94.861	259.00	51.870
41.00	36.962	84.67	72.096	128.33	153.801	172.00	132.270	215.67	94.092	259.33	51.329
41.33	38.084	85.00	74.500	128.67	154.199	172.33	131.184	216.00	93.317	259.67	50.801
41.67	39.173	85.33	77.031	129.00	154.398	172.67	130.046	216.33	92.649	260.00	50.285
42.00	40.168	85.67	79.724	129.33	155.475	173.00	128.846	216.67	92.039	260.33	49.784
42.33	40.946	86.00	82.552	129.67	156.975	173.33	127.585	217.00	91.449	260.67	49.292
42.67	41.642	86.33	85.227	130.00	158.636	173.67	126.391	217.33	90.793	261.00	48.813
43.00	42.290	86.67	87.792	130.33	160.669	174.00	125.141	217.67	90.424	261.33	48.341
43.33	42.840	87.00	90.141	130.67	163.047	174.33	123.879	218.00	89.933	261.67	47.878

TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
262.00	47.421	305.67	7.068	349.33	6.577	393.00	6.124	436.67	5.700	480.33	5.358
262.33	46.959	306.00	7.066	349.67	6.574	393.33	6.120	437.00	5.697	480.67	5.359
262.67	46.451	306.33	7.073	350.00	6.581	393.67	6.124	437.33	5.700	481.00	5.353
263.00	45.896	306.67	7.075	350.33	6.582	394.00	6.126	437.67	5.701	481.33	5.350
263.33	45.132	307.00	7.065	350.67	6.572	394.33	6.119	438.00	5.695	481.67	5.346
263.67	44.035	307.33	7.057	351.00	6.563	394.67	6.113	438.33	5.691	482.00	5.342
264.00	42.389	307.67	7.050	351.33	6.556	395.00	6.107	438.67	5.686	482.33	5.338
264.33	40.233	308.00	7.045	351.67	6.550	395.33	6.102	439.00	5.682	482.67	5.334
264.67	37.771	308.33	7.039	352.00	6.545	395.67	6.098	439.33	5.678	483.00	5.331
265.00	35.010	308.67	7.034	352.33	6.541	396.00	6.094	439.67	5.674	483.33	5.328
265.33	32.117	309.00	7.029	352.67	6.537	396.33	6.090	440.00	5.671	483.67	5.326
265.67	29.424	309.33	7.025	353.00	6.533	396.67	6.087	440.33	5.668	484.00	5.323
266.00	27.057	309.67	7.020	353.33	6.530	397.00	6.084	440.67	5.664	484.33	5.320
266.33	24.975	310.00	7.016	353.67	6.527	397.33	6.081	441.00	5.661	484.67	5.318
266.67	23.036	310.33	7.011	354.00	6.524	397.67	6.078	441.33	5.658	485.00	5.316
267.00	21.214	310.67	7.007	354.33	6.521	398.00	6.075	441.67	5.655	485.33	5.313
267.33	19.671	311.00	7.003	354.67	6.518	398.33	6.072	442.00	5.651	485.67	5.311
267.67	18.369	311.33	6.999	355.00	6.515	398.67	6.068	442.33	5.648	486.00	5.309
268.00	17.191	311.67	6.997	355.33	6.512	399.00	6.065	442.67	5.645	486.33	5.307
268.33	16.143	312.00	6.995	355.67	6.508	399.33	6.062	443.00	5.642	486.67	5.305
268.67	15.210	312.33	6.993	356.00	6.515	399.67	6.058	443.33	5.638	487.00	5.303
269.00	14.380	312.67	6.999	356.33	6.518	400.00	6.062	443.67	5.642	487.33	5.300
269.33	13.599	313.00	7.002	356.67	6.510	400.33	6.063	444.00	5.643	487.67	5.298
269.67	12.874	313.33	6.991	357.00	6.503	400.67	6.056	444.33	5.636	488.00	5.302
270.00	12.263	313.67	6.984	357.33	6.495	401.00	6.050	444.67	5.632	488.33	5.303
270.33	11.733	314.00	6.977	357.67	6.489	401.33	6.044	445.00	5.628	488.67	5.297
270.67	11.249	314.33	6.972	358.00	6.483	401.67	6.039	445.33	5.623	489.00	5.294
271.00	10.814	314.67	6.967	358.33	6.478	402.00	6.035	445.67	5.620	489.33	5.290
271.33	10.423	315.00	6.962	358.67	6.474	402.33	6.031	446.00	5.616	489.67	5.286
271.67	10.072	315.33	6.958	359.00	6.470	402.67	6.027	446.33	5.613	490.00	5.283
272.00	9.759	315.67	6.953	359.33	6.466	403.00	6.024	446.67	5.610	490.33	5.279
272.33	9.480	316.00	6.949	359.67	6.462	403.33	6.021	447.00	5.607	490.67	5.276
272.67	9.237	316.33	6.944	360.00	6.459	403.67	6.018	447.33	5.605	491.00	5.273
273.00	9.022	316.67	6.940	360.33	6.456	404.00	6.015	447.67	5.602	491.33	5.270
273.33	8.832	317.00	6.935	360.67	6.453	404.33	6.012	448.00	5.599	491.67	5.267
273.67	8.662	317.33	6.931	361.00	6.450	404.67	6.009	448.33	5.596	492.00	5.265
274.00	8.512	317.67	6.927	361.33	6.447	405.00	6.006	448.67	5.593	492.33	5.262
274.33	8.378	318.00	6.924	361.67	6.444	405.33	6.003	449.00	5.590	492.67	5.260
274.67	8.259	318.33	6.923	362.00	6.449	405.67	6.000	449.33	5.587	493.00	5.258
275.00	8.153	318.67	6.920	362.33	6.452	406.00	5.997	449.67	5.584	493.33	5.256
275.33	8.058	319.00	6.927	362.67	6.445	406.33	6.000	450.00	5.581	493.67	5.253
275.67	7.973	319.33	6.929	363.00	6.440	406.67	6.002	450.33	5.584	494.00	5.251
276.00	7.894	319.67	6.919	363.33	6.434	407.00	5.995	450.67	5.585	494.33	5.249
276.33	7.830	320.00	6.911	363.67	6.428	407.33	5.988	451.00	5.579	494.67	5.247
276.67	7.774	320.33	6.905	364.00	6.422	407.67	5.982	451.33	5.574	495.00	5.245
277.00	7.722	320.67	6.900	364.33	6.417	408.00	5.977	451.67	5.570	495.33	5.248
277.33	7.676	321.00	6.896	364.67	6.413	408.33	5.973	452.00	5.566	495.67	5.249
277.67	7.635	321.33	6.891	365.00	6.408	408.67	5.969	452.33	5.562	496.00	5.244
278.00	7.598	321.67	6.887	365.33	6.404	409.00	5.965	452.67	5.559	496.33	5.240
278.33	7.561	322.00	6.883	365.67	6.400	409.33	5.961	453.00	5.556	496.67	5.238
278.67	7.535	322.33	6.879	366.00	6.396	409.67	5.958	453.33	5.553	497.00	5.235
279.00	7.510	322.67	6.875	366.33	6.393	410.00	5.955	453.67	5.551	497.33	5.231
279.33	7.482	323.00	6.870	366.67	6.389	410.33	5.952	454.00	5.548	497.67	5.228
279.67	7.461	323.33	6.866	367.00	6.386	410.67	5.949	454.33	5.546	498.00	5.224
280.00	7.454	323.67	6.861	367.33	6.383	411.00	5.946	454.67	5.543	498.33	5.221
280.33	7.444	324.00	6.857	367.67	6.380	411.33	5.943	455.00	5.541	498.67	5.218
280.67	7.419	324.33	6.854	368.00	6.377	411.67	5.941	455.33	5.538	499.00	5.215
281.00	7.400	324.67	6.852	368.33	6.382	412.00	5.938	455.67	5.536	499.33	5.213
281.33	7.385	325.00	6.849	368.67	6.385	412.33	5.935	456.00	5.533	499.67	5.210
281.67	7.375	325.33	6.855	369.00	6.378	412.67	5.939	456.33	5.531	500.00	5.208
282.00	7.375	325.67	6.857	369.33	6.373	413.00	5.940	456.67	5.528	500.33	5.205
282.33	7.372	326.00	6.847	369.67	6.367	413.33	5.934	457.00	5.525	500.67	5.203
282.67	7.355	326.33	6.839	370.00	6.362	413.67	5.927	457.33	5.528	501.00	5.201
283.00	7.343	326.67	6.833	370.33	6.356	414.00	5.921	457.67	5.529	501.33	5.198
283.33	7.333	327.00	6.828	370.67	6.352	414.33	5.916	458.00	5.523	501.67	5.196
283.67	7.324	327.33	6.824	371.00	6.347	414.67	5.912	458.33	5.519	502.00	5.194
284.00	7.317	327.67	6.820	371.33	6.343	415.00	5.907	458.67	5.515	502.33	5.192
284.33	7.311	328.00	6.816	371.67	6.339	415.33	5.904	459.00	5.511	502.67	5.195
284.67	7.305	328.33	6.812	372.00	6.335	415.67	5.900	459.33	5.507	503.00	5.196
285.00	7.300	328.67	6.808	372.33	6.331	416.00	5.897	459.67	5.504	503.33	5.191
285.33	7.296	329.00	6.804	372.67	6.328	416.33	5.893	460.00	5.500	503.67	5.187
285.67	7.294	329.33	6.799	373.00	6.324	416.67	5.890	460.33	5.498	504.00	5.184
286.00	7.291	329.67	6.795	373.33	6.320	417.00	5.887	460.67	5.495	504.33	5.182
286.33	7.297	330.00	6.790	373.67	6.317	417.33	5.885	461.00	5.492	504.67	5.180
286.67	7.299	330.33	6.786	374.00	6.314	417.67	5.882	461.33	5.490	505.00	5.177
287.00	7.287	330.67	6.782	374.33	6.311	418.00	5.879	461.67	5.488	505.33	5.173
287.33	7.277	331.00	6.780	374.67	6.316	418.33	5.876	462.00	5.486	505.67	5.170
287.67	7.270	331.33	6.785	375.00	6.318	418.67	5.873	462.33	5.483	506.00	5.167
288.00	7.263	331.67	6.786	375.33	6.312	419.00	5.877	462.67	5.481	506.33	5.164
288.33	7.257	332.00	6.776	375.67	6.307	419.33	5.879	463.00	5.479	506.67	5.161
288.67	7.252	332.33	6.768	376.00	6.301	419.67	5.873	463.33	5.477	507.00	5.158
289.00	7.247	332.67	6.762	376.33	6.296	420.00	5.867	463.67	5.475	507.33	5.156
289.33	7.242	333.00	6.757	376.67	6.290	420.33	5.861	464.00	5.472	507.67	5.153
289.67	7.238	333.33	6.752	377.00	6.286	420.67	5.856	464.33	5.470	508.00	5.151
290.00	7.234	333.67	6.748	377.33	6.282	421.00	5.851	464.67	5.467	508.33	5.149
290.33	7.231	334.00	6.745	377.67	6.278	421.33	5.847	465.00	5.471	508.67	5.146
290.67	7.227	334.33	6.741	378.00	6.275	421.67	5.843	465.33	5.471	509.00	5.144
291.00	7.224	334.67	6.737	378.33	6.271	422.00	5.839	465.67	5.466	509.33	5.142
291.33	7.220	335.00	6.734	378.67	6.267	422.33	5.836	466.00	5.462	509.67	5.140
291.67	7.218	335.33	6.730	379.00	6.263	422.67	5.833	466.33	5.458	510.00	5.143
292.00	7.218	335.67	6.726	379.33	6.260	423.00	5.829	466.67	5.454	510.33	5.144
292.33	7.216	336.00	6.723	379.67	6.256	423.33	5.826	467.00	5.450	510.67	5.139
292.67	7.222	336.33	6.719	380.00	6.252	423.67	5.823	467.33	5.447	511.00	5.134
293.00	7.225	336.67	6.714	380.33	6.249	424.00	5.820	467.67	5.444	511.33	5.131
293.33	7.215	337.00	6.711	380.67	6.246	424.33	5.817	468.00	5.441	511.67	5.129
293.67	7.207	337.33	6.717	381.00	6.250	424.67	5.814	468.33	5.438	512.00	5.128
294.00	7.200	337.67	6.718	381.33	6.253	425.00	5.818	468.67	5.436	512.33	5.126
294.33	7.194	338.00	6.707	381.67	6.246	425.33	5.819	469.00	5.433	512.67	5.123
294.67	7.189	338.33	6.699	382.00	6.241	425.67	5.812	469.33	5.431	513.00	5.119
295.00	7.184	338.67	6.692	382.33	6.236	426.00	5.808	469.67	5.429	513.33	5.116
295.33	7.179	339.00	6.687	382.67	6.231	426.33	5.803	470.00	5.426	513.67	5.113
295.67	7.175	339.33	6.683	383.00	6.226	426.67	5.799	470.33	5.424	514.00	5.110
296.00	7.170	339.67	6.679	383.33	6.222	427.00	5.794	470.67	5.422	514.33	5.108
296.33	7.166	340.00	6.675	383.67	6.218	427.33	5.790	471.00	5.420	514.67	5.105
296.67	7.162	340.33	6.672	384.00	6.214	427.67	5.786	471.33	5.418	515.00	5.102
297.00	7.159	340.67	6.669	384.33	6.211	428.00	5.783	471.67	5.415	515.33	5.100
297.33	7.155	341.00	6.666	384.67	6.208	428.33	5.779	472.00	5.413	515.67	5.097
297.67	7.152	341.33	6.662	385.00	6.204	428.67	5.775	472.33	5.411	516.00	5.095
298.00	7.148	341.67	6.659	385.33	6.201	429.00	5.772	472.67	5.414	516.33	5.093
298.33	7.145	342.00	6.656	385.67	6.197	429.33	5.768	473.00	5.415	516.67	5.090
298.67	7.143	342.33	6.653	386.00	6.194	429.67	5.765	473.33	5.409	517.00	5.088
299.00	7.142	342.67	6.649	386.33	6.190	430.00	5.762	473.67	5.405	517.33	5.091
299.33	7.140	343.00	6.645	386.67	6.186	430.33	5.759	474.00	5.402	517.67	5.092
299.67	7.147	343.33	6.642	387.00	6.183	430.67	5.756	474.33	5.397	518.00	5.087
300.00	7.150	343.67	6.648	387.33	6.187	431.00	5.759	474.67	5.394	518.33	5.083
300.33	7.139	344.00	6.649	387.67	6.189	431.33	5.760	475.00	5.390	518.67	5.079
300.67	7.131	344.33	6.638	388.00	6.183	431.67	5.754	475.33	5.387	519.00	5.077
301.00	7.125	344.67	6.630	388.33	6.177	432.00	5.749	475.67	5.384	519.33	5.075
301.33	7.119	345.00	6.623	388.67	6.172	432.33	5.745	476.00	5.382	519.67	5.074
301.67	7.113	345.33	6.618	389.00	6.167	432.67	5.741	476.33	5.379	520.00	5.072
302.00	7.108	345.67	6.613	389.33	6.162	433.00	5.737	476.67	5.376	520.33	5.069
302.33	7.103	346.00	6.609	389.67	6.158	433.33	5.733	477.00	5.374	520.67	5.066
302.67	7.099	346.33	6.606	390.00	6.154	433.67	5.729	477.33	5.372	521.00	5.063
303.00	7.094	346.67	6.602	390.33	6.151	434.00	5.726	477.67	5.370	521.33	5.060
303.33	7.090	347.00	6.599	390.67	6.147	434.33	5.723	478.00	5.367	521.67	5.057
303.67	7.086	347.33	6.596	391.00	6.144	434.67	5.719	478.33	5.365	522.00	5.055
304.00	7.082	347.67	6.593	391.33	6.141	435.00	5.716	478.67	5.363	522.33	5.052
304.33	7.078	348.00	6.590	391.67	6.138	435.33	5.712	479.00	5.361	522.67	5.049
304.67	7.075	348.33	6.587	392.00	6.134	435.67	5.709	479.33	5.359	523.00	5.047
305.00	7.071	348.67	6.583	392.33	6.131	436.00	5.706	479.67	5.357	523.33	5.044
305.33	7.069	349.00	6.580	392.67	6.128	436.33	5.703	480.00	5.354	523.67	5.042

TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
524.00	5.039	567.67	4.749	611.33	4.455	655.00	4.145	698.67	3.865
524.33	5.037	568.00	4.747	611.67	4.452	655.33	4.142	699.00	3.863
524.67	5.040	568.33	4.744	612.00	4.450	655.67	4.140	699.33	3.861
525.00	5.041	568.67	4.742	612.33	4.448	656.00	4.137	699.67	3.859
525.33	5.036	569.00	4.740	612.67	4.445	656.33	4.134	700.00	3.857
525.67	5.032	569.33	4.737	613.00	4.444	656.67	4.133	700.33	3.855
526.00	5.028	569.67	4.735	613.33	4.443	657.00	4.132	700.67	3.854
526.33	5.026	570.00	4.733	613.67	4.440	657.33	4.130	701.00	3.852
526.67	5.024	570.33	4.735	614.00	4.438	657.67	4.128	701.33	3.850
527.00	5.023	570.67	4.736	614.33	4.435	658.00	4.127	701.67	3.848
527.33	5.021	571.00	4.732	614.67	4.432	658.33	4.125	702.00	3.845
527.67	5.018	571.33	4.728	615.00	4.429	658.67	4.122	702.33	3.844
528.00	5.016	571.67	4.725	615.33	4.426	659.00	4.120	702.67	3.842
528.33	5.013	572.00	4.721	615.67	4.424	659.33	4.118	703.00	3.840
528.67	5.010	572.33	4.719	616.00	4.421	659.67	4.115	703.33	3.838
529.00	5.007	572.67	4.716	616.33	4.419	660.00	4.112	703.67	3.836
529.33	5.005	573.00	4.713	616.67	4.416	660.33	4.110	704.00	3.833
529.67	5.002	573.33	4.711	617.00	4.414	660.67	4.107	704.33	3.831
530.00	4.999	573.67	4.709	617.33	4.412	661.00	4.104	704.67	3.828
530.33	4.997	574.00	4.707	617.67	4.410	661.33	4.101	705.00	3.826
530.67	4.994	574.33	4.705	618.00	4.407	661.67	4.099	705.33	3.824
531.00	4.992	574.67	4.703	618.33	4.405	662.00	4.096	705.67	3.822
531.33	4.989	575.00	4.701	618.67	4.403	662.33	4.093	706.00	3.820
531.67	4.987	575.33	4.699	619.00	4.401	662.67	4.092	706.33	3.818
532.00	4.990	575.67	4.697	619.33	4.398	663.00	4.090	706.67	3.816
532.33	4.990	576.00	4.695	619.67	4.397	663.33	4.088	707.00	3.815
532.67	4.985	576.33	4.692	620.00	4.396	663.67	4.086	707.33	3.813
533.00	4.981	576.67	4.690	620.33	4.394	664.00	4.085	707.67	3.811
533.33	4.978	577.00	4.688	620.67	4.391	664.33	4.083	708.00	3.809
533.67	4.975	577.33	4.686	621.00	4.388	664.67	4.080	708.33	3.807
534.00	4.973	577.67	4.683	621.33	4.385	665.00	4.078	708.67	3.805
534.33	4.972	578.00	4.685	621.67	4.382	665.33	4.076	709.00	3.804
534.67	4.970	578.33	4.686	622.00	4.380	665.67	4.074	709.33	3.802
535.00	4.968	578.67	4.682	622.33	4.377	666.00	4.072	709.67	3.800
535.33	4.965	579.00	4.679	622.67	4.375	666.33	4.070	710.00	3.798
535.67	4.963	579.33	4.675	623.00	4.372	666.67	4.068	710.33	3.796
536.00	4.960	579.67	4.672	623.33	4.370	667.00	4.065	710.67	3.793
536.33	4.958	580.00	4.669	623.67	4.367	667.33	4.063	711.00	3.791
536.67	4.955	580.33	4.667	624.00	4.365	667.67	4.060	711.33	3.788
537.00	4.953	580.67	4.664	624.33	4.363	668.00	4.057	711.67	3.786
537.33	4.950	581.00	4.662	624.67	4.361	668.33	4.055	712.00	3.784
537.67	4.947	581.33	4.660	625.00	4.359	668.67	4.052	712.33	3.782
538.00	4.945	581.67	4.658	625.33	4.356	669.00	4.051	712.67	3.780
538.33	4.942	582.00	4.656	625.67	4.354	669.33	4.049	713.00	3.778
538.67	4.940	582.33	4.653	626.00	4.352	669.67	4.046	713.33	3.776
539.00	4.937	582.67	4.651	626.33	4.351	670.00	4.045	713.67	3.774
539.33	4.935	583.00	4.650	626.67	4.350	670.33	4.043	714.00	3.772
539.67	4.938	583.33	4.648	627.00	4.348	670.67	4.041	714.33	3.771
540.00	4.938	583.67	4.646	627.33	4.345	671.00	4.039	714.67	3.769
540.33	4.933	584.00	4.644	627.67	4.342	671.33	4.037	715.00	3.767
540.67	4.929	584.33	4.641	628.00	4.339	671.67	4.035	715.33	3.765
541.00	4.926	584.67	4.639	628.33	4.336	672.00	4.033	715.67	3.764
541.33	4.924	585.00	4.637	628.67	4.334	672.33	4.031	716.00	3.762
541.67	4.922	585.33	4.635	629.00	4.331	672.67	4.029	716.33	3.760
542.00	4.921	585.67	4.636	629.33	4.329	673.00	4.027	716.67	3.758
542.33	4.918	586.00	4.637	629.67	4.326	673.33	4.025	717.00	3.756
542.67	4.915	586.33	4.633	630.00	4.324	673.67	4.023	717.33	3.753
543.00	4.913	586.67	4.629	630.33	4.321	674.00	4.020	717.67	3.751
543.33	4.911	587.00	4.626	630.67	4.319	674.33	4.018	718.00	3.749
543.67	4.908	587.33	4.623	631.00	4.317	674.67	4.015	718.33	3.746
544.00	4.906	587.67	4.620	631.33	4.315	675.00	4.012	718.67	3.744
544.33	4.903	588.00	4.618	631.67	4.312	675.33	4.010	719.00	3.742
544.67	4.901	588.33	4.615	632.00	4.310	675.67	4.008	719.33	3.740
545.00	4.898	588.67	4.613	632.33	4.308	676.00	4.007	719.67	3.738
545.33	4.896	589.00	4.610	632.67	4.307	676.33	4.004	720.00	3.736
545.67	4.893	589.33	4.608	633.00	4.305	676.67	4.003	720.33	3.734
546.00	4.891	589.67	4.606	633.33	4.303	677.00	4.001	720.67	3.733
546.33	4.888	590.00	4.604	633.67	4.301	677.33	3.998	721.00	3.731
546.67	4.886	590.33	4.602	634.00	4.299	677.67	3.996	721.33	3.729
547.00	4.884	590.67	4.600	634.33	4.296	678.00	3.994	721.67	3.727
547.33	4.886	591.00	4.598	634.67	4.294	678.33	3.992	722.00	3.725
547.67	4.887	591.33	4.595	635.00	4.291	678.67	3.990	722.33	3.725
548.00	4.882	591.67	4.593	635.33	4.288	679.00	3.988	722.67	3.723
548.33	4.877	592.00	4.591	635.67	4.286	679.33	3.986	723.00	3.721
548.67	4.875	592.33	4.588	636.00	4.283	679.67	3.984	723.33	3.719
549.00	4.873	592.67	4.586	636.33	4.281	680.00	3.982	723.67	3.717
549.33	4.871	593.00	4.588	636.67	4.278	680.33	3.980	724.00	3.715
549.67	4.869	593.33	4.589	637.00	4.276	680.67	3.978	724.33	3.712
550.00	4.866	593.67	4.584	637.33	4.273	681.00	3.976	724.67	3.710
550.33	4.863	594.00	4.580	637.67	4.271	681.33	3.973	725.00	3.708
550.67	4.861	594.33	4.577	638.00	4.269	681.67	3.971	725.33	3.705
551.00	4.859	594.67	4.574	638.33	4.267	682.00	3.968	725.67	3.703
551.33	4.857	595.00	4.571	638.67	4.264	682.33	3.967	726.00	3.701
551.67	4.854	595.33	4.568	639.00	4.263	682.67	3.965	726.33	3.699
552.00	4.852	595.67	4.566	639.33	4.262	683.00	3.962	726.67	3.697
552.33	4.850	596.00	4.563	639.67	4.259	683.33	3.961	727.00	3.695
552.67	4.847	596.33	4.561	640.00	4.258	683.67	3.959	727.33	3.694
553.00	4.845	596.67	4.559	640.33	4.256	684.00	3.956	727.67	3.692
553.33	4.843	597.00	4.557	640.67	4.253	684.33	3.954	728.00	3.690
553.67	4.840	597.33	4.554	641.00	4.251	684.67	3.952	728.33	3.688
554.00	4.838	597.67	4.552	641.33	4.248	685.00	3.950	728.67	3.686
554.33	4.835	598.00	4.550	641.67	4.245	685.33	3.948	729.00	3.686
554.67	4.833	598.33	4.547	642.00	4.243	685.67	3.946	729.33	3.685
555.00	4.835	598.67	4.544	642.33	4.240	686.00	3.944	729.67	3.683
555.33	4.836	599.00	4.542	642.67	4.238	686.33	3.942	730.00	3.681
555.67	4.831	599.33	4.539	643.00	4.235	686.67	3.940	730.33	3.678
556.00	4.827	599.67	4.539	643.33	4.233	687.00	3.938	730.67	3.676
556.33	4.825	600.00	4.539	643.67	4.230	687.33	3.936	731.00	3.673
556.67	4.823	600.33	4.536	644.00	4.228	687.67	3.934	731.33	3.671
557.00	4.820	600.67	4.533	644.33	4.226	688.00	3.932	731.67	3.669
557.33	4.817	601.00	4.530	644.67	4.223	688.33	3.929	732.00	3.667
557.67	4.815	601.33	4.527	645.00	4.221	688.67	3.927	732.33	3.665
558.00	4.812	601.67	4.524	645.33	4.220	689.00	3.925	732.67	3.663
558.33	4.810	602.00	4.521	645.67	4.218	689.33	3.924	733.00	3.661
558.67	4.808	602.33	4.518	646.00	4.215	689.67	3.921	733.33	3.659
559.00	4.805	602.67	4.516	646.33	4.214	690.00	3.919	733.67	3.657
559.33	4.803	603.00	4.513	646.67	4.211	690.33	3.917	734.00	3.655
559.67	4.801	603.33	4.511	647.00	4.208	690.67	3.915	734.33	3.653
560.00	4.799	603.67	4.509	647.33	4.206	691.00	3.913	734.67	3.652
560.33	4.797	604.00	4.507	647.67	4.203	691.33	3.910	735.00	3.650
560.67	4.795	604.33	4.504	648.00	4.200	691.67	3.908	735.33	3.648
561.00	4.792	604.67	4.502	648.33	4.197	692.00	3.906	735.67	3.647
561.33	4.790	605.00	4.500	648.67	4.194	692.33	3.904	736.00	3.646
561.67	4.787	605.33	4.497	649.00	4.191	692.67	3.902	736.33	3.644
562.00	4.785	605.67	4.495	649.33	4.189	693.00	3.900	736.67	3.642
562.33	4.783	606.00	4.492	649.67	4.186	693.33	3.899	737.00	3.640
562.67	4.785	606.33	4.491	650.00	4.184	693.67	3.897	737.33	3.638
563.00	4.785	606.67	4.490	650.33	4.181	694.00	3.895	737.67	3.636
563.33	4.781	607.00	4.487	650.67	4.179	694.33	3.893	738.00	3.633
563.67	4.778	607.33	4.485	651.00	4.177	694.67	3.891	738.33	3.631
564.00	4.775	607.67	4.482	651.33	4.176	695.00	3.888	738.67	3.629
564.33	4.772	608.00	4.479	651.67	4.173	695.33	3.886	739.00	3.627
564.67	4.769	608.33	4.476	652.00	4.171	695.67	3.884	739.33	3.625
565.00	4.766	608.67	4.473	652.33	4.169	696.00	3.883	739.67	3.623
565.33	4.764	609.00	4.471	652.67	4.166	696.33	3.880	740.00	3.621
565.67	4.761	609.33	4.468	653.00	4.163	696.67	3.878	740.33	3.619
566.00	4.759	609.67	4.466	653.33	4.160	697.00	3.876	740.67	3.617
566.33	4.757	610.00	4.464	653.67	4.157	697.33	3.874	741.00	3.615
566.67	4.755	610.33	4.461	654.00	4.153	697.67	3.871	741.33	3.613
567.00	4.753	610.67	4.459	654.33	4.150	698.00	3.869	741.67	3.611
567.33	4.751	611.00	4.457	654.67	4.148	698.33	3.867	742.00	3.610

TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
742.33	3.609	786.00	2.944	829.67	2.239	873.33	0.234	917.00	0.002
742.67	3.608	786.33	2.938	830.00	2.234	873.67	0.227	917.33	0.002
743.00	3.606	786.67	2.931	830.33	2.229	874.00	0.221	917.67	0.002
743.33	3.604	787.00	2.924	830.67	2.224	874.33	0.215	918.00	0.002
743.67	3.602	787.33	2.918	831.00	2.219	874.67	0.209	918.33	0.002
744.00	3.600	787.67	2.912	831.33	2.214	875.00	0.204	918.67	0.002
744.33	3.597	788.00	2.906	831.67	2.208	875.33	0.198	919.00	0.002
744.67	3.595	788.33	2.900	832.00	2.203	875.67	0.193	919.33	0.002
745.00	3.593	788.67	2.893	832.33	2.197	876.00	0.188	919.67	0.002
745.33	3.591	789.00	2.887	832.67	2.191	876.33	0.182	920.00	0.001
745.67	3.589	789.33	2.881	833.00	2.185	876.67	0.177	920.33	0.001
746.00	3.586	789.67	2.875	833.33	2.178	877.00	0.172	920.67	0.001
746.33	3.584	790.00	2.869	833.67	2.172	877.33	0.167	921.00	0.001
746.67	3.582	790.33	2.862	834.00	2.165	877.67	0.163	921.33	0.001
747.00	3.580	790.67	2.856	834.33	2.159	878.00	0.158	921.67	0.001
747.33	3.578	791.00	2.851	834.67	2.151	878.33	0.154	922.00	0.001
747.67	3.576	791.33	2.845	835.00	2.143	878.67	0.149	922.33	0.001
748.00	3.574	791.67	2.838	835.33	2.136	879.00	0.145	922.67	0.001
748.33	3.573	792.00	2.832	835.67	2.128	879.33	0.141	923.00	0.001
748.67	3.572	792.33	2.826	836.00	2.119	879.67	0.136	923.33	0.001
749.00	3.570	792.67	2.820	836.33	2.109	880.00	0.132	923.67	0.001
749.33	3.568	793.00	2.815	836.67	2.099	880.33	0.128	924.00	0.001
749.67	3.566	793.33	2.808	837.00	2.088	880.67	0.124	924.33	0.001
750.00	3.563	793.67	2.802	837.33	2.077	881.00	0.120	924.67	0.001
750.33	3.561	794.00	2.796	837.67	2.067	881.33	0.116	925.00	0.001
750.67	3.558	794.33	2.790	838.00	2.055	881.67	0.113	925.33	0.001
751.00	3.555	794.67	2.785	838.33	2.044	882.00	0.110	925.67	0.001
751.33	3.553	795.00	2.778	838.67	2.033	882.33	0.107	926.00	0.001
751.67	3.550	795.33	2.772	839.00	2.021	882.67	0.104	926.33	0.001
752.00	3.547	795.67	2.766	839.33	2.008	883.00	0.101	926.67	0.001
752.33	3.544	796.00	2.761	839.67	1.995	883.33	0.098	927.00	0.001
752.67	3.541	796.33	2.755	840.00	1.982	883.67	0.095	927.33	0.001
753.00	3.538	796.67	2.749	840.33	1.968	884.00	0.092	927.67	0.001
753.33	3.536	797.00	2.743	840.67	1.954	884.33	0.089	928.00	0.001
753.67	3.535	797.33	2.737	841.00	1.939	884.67	0.087	928.33	0.001
754.00	3.531	797.67	2.732	841.33	1.924	885.00	0.084	928.67	0.001
754.33	3.527	798.00	2.726	841.67	1.909	885.33	0.082	929.00	0.000
754.67	3.523	798.33	2.720	842.00	1.892	885.67	0.079	929.33	0.000
755.00	3.520	798.67	2.714	842.33	1.876	886.00	0.077	929.67	0.000
755.33	3.516	799.00	2.708	842.67	1.859	886.33	0.074	930.00	0.000
755.67	3.511	799.33	2.703	843.00	1.841	886.67	0.072	930.33	0.000
756.00	3.507	799.67	2.698	843.33	1.823	887.00	0.070	930.67	0.000
756.33	3.503	800.00	2.691	843.67	1.805	887.33	0.068	931.00	0.000
756.67	3.500	800.33	2.685	844.00	1.786	887.67	0.066	931.33	0.000
757.00	3.497	800.67	2.680	844.33	1.767	888.00	0.064	931.67	0.000
757.33	3.493	801.00	2.675	844.67	1.747	888.33	0.062	932.00	0.000
757.67	3.488	801.33	2.669	845.00	1.727	888.67	0.060	932.33	0.000
758.00	3.482	801.67	2.663	845.33	1.707	889.00	0.058	932.67	0.000
758.33	3.477	802.00	2.657	845.67	1.685	889.33	0.056	933.00	0.000
758.67	3.472	802.33	2.652	846.00	1.661	889.67	0.054	933.33	0.000
759.00	3.467	802.67	2.646	846.33	1.637	890.00	0.052	933.67	0.000
759.33	3.463	803.00	2.641	846.67	1.613	890.33	0.051	934.00	0.000
759.67	3.460	803.33	2.635	847.00	1.589	890.67	0.049	934.33	0.000
760.00	3.454	803.67	2.629	847.33	1.565	891.00	0.047	934.67	0.000
760.33	3.448	804.00	2.624	847.67	1.540	891.33	0.046	935.00	0.000
760.67	3.442	804.33	2.619	848.00	1.515	891.67	0.044	935.33	0.000
761.00	3.436	804.67	2.614	848.33	1.490	892.00	0.043	935.67	0.000
761.33	3.431	805.00	2.608	848.67	1.465	892.33	0.041	936.00	0.000
761.67	3.427	805.33	2.602	849.00	1.441	892.67	0.040	936.33	0.000
762.00	3.422	805.67	2.596	849.33	1.417	893.00	0.038	936.67	0.000
762.33	3.416	806.00	2.591	849.67	1.393	893.33	0.037	937.00	0.000
762.67	3.410	806.33	2.586	850.00	1.369	893.67	0.036	937.33	0.000
763.00	3.403	806.67	2.580	850.33	1.346	894.00	0.034	937.67	0.000
763.33	3.397	807.00	2.575	850.67	1.323	894.33	0.033	938.00	0.000
763.67	3.392	807.33	2.569	851.00	1.300	894.67	0.032	938.33	0.000
764.00	3.388	807.67	2.564	851.33	1.278	895.00	0.031	938.67	0.000
764.33	3.382	808.00	2.559	851.67	1.256	895.33	0.030	939.00	0.000
764.67	3.375	808.33	2.553	852.00	1.234	895.67	0.029	939.33	0.000
765.00	3.368	808.67	2.548	852.33	1.213	896.00	0.028	939.67	0.000
765.33	3.362	809.00	2.543	852.67	1.191	896.33	0.027	940.00	0.000
765.67	3.356	809.33	2.538	853.00	1.170	896.67	0.026	940.33	0.000
766.00	3.351	809.67	2.533	853.33	1.148	897.00	0.025	940.67	0.000
766.33	3.344	810.00	2.527	853.67	1.127	897.33	0.024	941.00	0.000
766.67	3.336	810.33	2.521	854.00	1.106	897.67	0.023	941.33	0.000
767.00	3.328	810.67	2.516	854.33	1.085	898.00	0.022	941.67	0.000
767.33	3.321	811.00	2.511	854.67	1.064	898.33	0.021	942.00	0.000
767.67	3.315	811.33	2.506	855.00	1.043	898.67	0.020	942.33	0.000
768.00	3.309	811.67	2.501	855.33	1.022	899.00	0.020	942.67	0.000
768.33	3.300	812.00	2.495	855.67	1.001	899.33	0.019	943.00	0.000
768.67	3.293	812.33	2.490	856.00	0.981	899.67	0.018	943.33	0.000
769.00	3.285	812.67	2.485	856.33	0.961	900.00	0.017	943.67	0.000
769.33	3.279	813.00	2.480	856.67	0.941	900.33	0.017	944.00	0.000
769.67	3.271	813.33	2.475	857.00	0.921	900.67	0.016	944.33	0.000
770.00	3.263	813.67	2.469	857.33	0.901	901.00	0.016	944.67	0.000
770.33	3.256	814.00	2.464	857.67	0.881	901.33	0.015	945.00	0.000
770.67	3.249	814.33	2.459	858.00	0.862	901.67	0.014	945.33	0.000
771.00	3.242	814.67	2.455	858.33	0.843	902.00	0.014	945.67	0.000
771.33	3.235	815.00	2.449	858.67	0.824	902.33	0.013	946.00	0.000
771.67	3.228	815.33	2.444	859.00	0.805	902.67	0.013	946.33	0.000
772.00	3.221	815.67	2.439	859.33	0.786	903.00	0.012	946.67	0.000
772.33	3.214	816.00	2.434	859.67	0.768	903.33	0.012	947.00	0.000
772.67	3.207	816.33	2.429	860.00	0.747	903.67	0.011	947.33	0.000
773.00	3.201	816.67	2.424	860.33	0.724	904.00	0.011	947.67	0.000
773.33	3.193	817.00	2.419	860.67	0.701	904.33	0.010	948.00	0.000
773.67	3.186	817.33	2.414	861.00	0.676	904.67	0.010	948.33	0.000
774.00	3.179	817.67	2.409	861.33	0.651	905.00	0.010	948.67	0.000
774.33	3.173	818.00	2.404	861.67	0.629	905.33	0.009	949.00	0.000
774.67	3.166	818.33	2.399	862.00	0.609	905.67	0.009	949.33	0.000
775.00	3.159	818.67	2.394	862.33	0.590	906.00	0.009	949.67	0.000
775.33	3.152	819.00	2.389	862.67	0.572	906.33	0.008	950.00	0.000
775.67	3.145	819.33	2.385	863.00	0.556	906.67	0.008	950.33	0.000
776.00	3.139	819.67	2.380	863.33	0.540	907.00	0.008	950.67	0.000
776.33	3.133	820.00	2.375	863.67	0.523	907.33	0.007	951.00	0.000
776.67	3.125	820.33	2.370	864.00	0.507	907.67	0.007	951.33	0.000
777.00	3.119	820.67	2.365	864.33	0.491	908.00	0.007	951.67	0.000
777.33	3.112	821.00	2.360	864.67	0.476	908.33	0.006	952.00	0.000
777.67	3.106	821.33	2.356	865.00	0.462	908.67	0.006	952.33	0.000
778.00	3.099	821.67	2.351	865.33	0.449	909.00	0.006	952.67	0.000
778.33	3.092	822.00	2.346	865.67	0.436	909.33	0.006	953.00	0.000
778.67	3.085	822.33	2.341	866.00	0.423	909.67	0.005	953.33	0.000
779.00	3.079	822.67	2.336	866.33	0.411	910.00	0.005	953.67	0.000
779.33	3.073	823.00	2.332	866.67	0.400	910.33	0.005	954.00	0.000
779.67	3.066	823.33	2.327	867.00	0.389	910.67	0.005	954.33	0.000
780.00	3.059	823.67	2.322	867.33	0.378	911.00	0.005	954.67	0.000
780.33	3.053	824.00	2.317	867.67	0.368	911.33	0.004	955.00	0.000
780.67	3.046	824.33	2.313	868.00	0.358	911.67	0.004	955.33	0.000
781.00	3.040	824.67	2.308	868.33	0.349	912.00	0.004	955.67	0.000
781.33	3.034	825.00	2.303	868.67	0.340	912.33	0.004	956.00	0.000
781.67	3.027	825.33	2.299	869.00	0.331	912.67	0.004	956.33	0.000
782.00	3.020	825.67	2.294	869.33	0.322	913.00	0.004	956.67	0.000
782.33	3.014	826.00	2.290	869.67	0.313	913.33	0.003	957.00	0.000
782.67	3.008	826.33	2.285	870.00	0.305	913.67	0.003	957.33	0.000
783.00	3.001	826.67	2.280	870.33	0.297	914.00	0.003	957.67	0.000
783.33	2.994	827.00	2.275	870.67	0.289	914.33	0.003	958.00	0.000
783.67	2.988	827.33	2.271	871.00	0.282	914.67	0.003	958.33	0.000
784.00	2.981	827.67	2.267	871.33	0.274	915.00	0.003	958.67	0.000
784.33	2.976	828.00	2.262	871.67	0.267	915.33	0.003	959.00	0.000
784.67	2.969	828.33	2.257	872.00	0.260	915.67	0.003	959.33	0.000
785.00	2.962	828.67	2.252	872.33	0.253	916.00	0.002	959.67	0.000
785.33	2.956	829.00	2.248	872.67	0.247	916.33	0.002	960.00	0.000
785.67	2.950	829.33	2.243	873.00	0.240	916.67	0.002	960.33	0.000

RES_RF (JR SPRING)



Hydrograph Statistics:

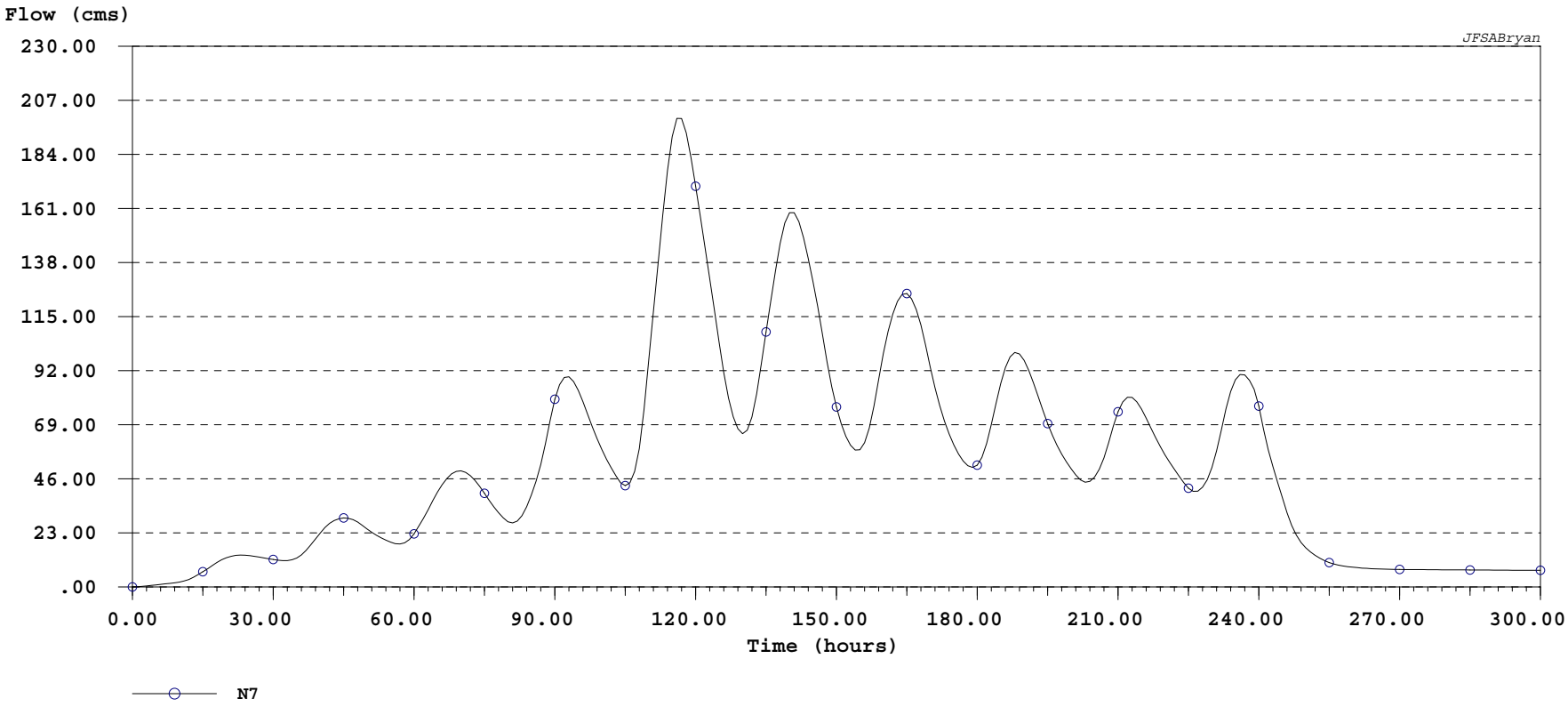
Legend	Filename & Comment	Time Step (min)	Drainage Area (ha)	Peak Flow (cms)	Time to Peak (hrs)	Runoff Volume (mm)	Runoff Volume (cu.m)	Duration of flow (hrs)	Average flow (cms)
—□—	H-RES_RF.100: OUTFLOW FROM FEN	60.00	38743.00	144.980	122.000	162.28	6.287E+07	300.000	58.215

Hydrograph Table:

Hydrograph Filename : Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\JRSPRI~1\H-RES_RF.100
Comment in file : OUTFLOW FROM FEN

# TIME hrs	FLOW # cms	TIME hrs	FLOW # cms	TIME hrs	FLOW # cms	TIME hrs	FLOW # cms	TIME hrs	FLOW # cms	TIME hrs	FLOW # cms	TIME hrs	FLOW # cms	TIME hrs	FLOW # cms	TIME hrs	FLOW # cms	TIME hrs	FLOW # cms	TIME hrs	FLOW # cms	TIME hrs	FLOW # cms	TIME hrs	FLOW # cms	TIME hrs	FLOW # cms
0.00	0.000	76.00	45.080	152.00	116.409	228.00	66.530	304.00	7.038	380.00	6.212	456.00	5.494	532.00	4.953	608.00	4.441	684.00	3.928	760.00	3.369	836.00	1.881	912.00	0.000
1.00	0.049	77.00	44.813	153.00	111.275	229.00	66.008	305.00	7.027	381.00	6.203	457.00	5.485	533.00	4.947	609.00	4.435	685.00	3.924	761.00	3.350	837.00	1.816	913.00	0.000
2.00	0.155	78.00	44.458	154.00	106.479	230.00	65.713	306.00	7.012	382.00	6.193	458.00	5.479	534.00	4.941	610.00	4.429	686.00	3.918	762.00	3.330	838.00	1.744	914.00	0.000
3.00	0.280	79.00	44.030	155.00	102.264	231.00	65.697	307.00	6.996	383.00	6.181	459.00	5.474	535.00	4.932	611.00	4.421	687.00	3.910	763.00	3.310	839.00	1.668	915.00	0.000
4.00	0.428	80.00	43.550	156.00	98.877	232.00	65.997	308.00	6.984	384.00	6.168	460.00	5.468	536.00	4.922	612.00	4.411	688.00	3.901	764.00	3.289	840.00	1.587	916.00	0.000
5.00	0.595	81.00	43.063	157.00	96.559	233.00	66.622	309.00	6.975	385.00	6.158	461.00	5.461	537.00	4.915	613.00	4.403	689.00	3.894	765.00	3.269	841.00	1.504	917.00	0.000
6.00	0.777	82.00	36.040	158.00	95.507	234.00	67.515	310.00	6.967	386.00	6.150	462.00	5.455	538.00	4.909	614.00	4.397	690.00	3.889	766.00	3.248	842.00	1.419	918.00	0.000
7.00	0.968	83.00	34.201	159.00	95.810	235.00	68.572	311.00	6.957	387.00	6.141	463.00	5.445	539.00	4.904	615.00	4.392	691.00	3.885	767.00	3.227	843.00	1.332	919.00	0.000
8.00	1.170	84.00	37.722	160.00	97.355	236.00	69.679	312.00	6.945	388.00	6.132	464.00	5.434	540.00	4.898	616.00	4.386	692.00	3.880	768.00	3.206	844.00	1.245	920.00	0.000
9.00	1.397	85.00	42.951	161.00	99.835	237.00	70.734	313.00	6.931	389.00	6.122	465.00	5.425	541.00	4.893	617.00	4.379	693.00	3.874	769.00	3.185	845.00	1.158	921.00	0.000
10.00	1.666	86.00	43.265	162.00	102.885	238.00	71.658	314.00	6.916	390.00	6.110	466.00	5.420	542.00	4.887	618.00	4.372	694.00	3.866	770.00	3.164	846.00	1.074	922.00	0.000
11.00	2.000	87.00	43.850	163.00	106.169	239.00	72.395	315.00	6.905	391.00	6.098	467.00	5.414	543.00	4.878	619.00	4.362	695.00	3.858	771.00	3.143	847.00	0.991	923.00	0.000
12.00	2.885	88.00	44.738	164.00	109.371	240.00	72.827	316.00	6.897	392.00	6.088	468.00	5.408	544.00	4.869	620.00	4.354	696.00	3.851	772.00	3.122	848.00	0.912	924.00	0.000
13.00	3.930	89.00	45.951	165.00	112.211	241.00	72.866	317.00	6.888	393.00	6.079	469.00	5.401	545.00	4.861	621.00	4.348	697.00	3.846	773.00	3.101	849.00	0.836	925.00	0.000
14.00	5.105	90.00	47.457	166.00	114.463	242.00	72.550	318.00	6.879	394.00	6.071	470.00	5.395	546.00	4.856	622.00	4.343	698.00	3.841	774.00	3.080	850.00	0.764	926.00	0.000
15.00	6.421	91.00	49.157	167.00	115.958	243.00	71.947	319.00	6.867	395.00	6.062	471.00	5.386	547.00	4.851	623.00	4.337	699.00	3.837	775.00	3.060	851.00	0.696	927.00	0.000
16.00	7.921	92.00	50.919	168.00	116.579	244.00	71.106	320.00	6.853	396.00	6.052	472.00	5.374	548.00	4.845	624.00	4.331	700.00	3.831	776.00	3.039	852.00	0.632	928.00	0.000
17.00	9.391	93.00	52.628	169.00	116.240	245.00	70.051	321.00	6.838	397.00	6.040	473.00	5.366	549.00	4.839	625.00	4.323	701.00	3.823	777.00	3.019	853.00	0.573	929.00	0.000
18.00	10.846	94.00	54.192	170.00	114.927	246.00	68.798	322.00	6.827	398.00	6.028	474.00	5.360	550.00	4.833	626.00	4.314	702.00	3.815	778.00	2.999	854.00	0.518	930.00	0.000
19.00	12.157	95.00	55.550	171.00	112.756	247.00	67.374	323.00	6.818	399.00	6.018	475.00	5.355	551.00	4.825	627.00	4.306	703.00	3.808	779.00	2.979	855.00	0.467	931.00	0.000
20.00	13.201	96.00	56.666	172.00	109.928	248.00	65.826	324.00	6.809	400.00	6.010	476.00	5.349	552.00	4.815	628.00	4.300	704.00	3.803	780.00	2.959	856.00	0.420	932.00	0.000
21.00	13.951	97.00	57.529	173.00	106.634	249.00	64.203	325.00	6.799	401.00	6.001	477.00	5.342	553.00	4.808	629.00	4.294	705.00	3.799	781.00	2.940	857.00	0.377	933.00	0.000
22.00	14.440	98.00	58.147	174.00	103.035	250.00	62.539	326.00	6.788	402.00	5.992	478.00	5.336	554.00	4.803	630.00	4.289	706.00	3.794	782.00	2.920	858.00	0.338	934.00	0.000
23.00	14.696	99.00	58.540	175.00	99.269	251.00	60.862	327.00	6.774	403.00	5.983	479.00	5.327	555.00	4.798	631.00	4.282	707.00	3.788	783.00	2.900	859.00	0.303	935.00	0.000
24.00	14.742	100.00	58.736	176.00	95.442	252.00	59.187	328.00	6.760	404.00	5.971	480.00	5.316	556.00	4.792	632.00	4.275	708.00	3.781	784.00	2.881	860.00	0.271	936.00	0.000
25.00	14.618	101.00	58.762	177.00	91.669	253.00	57.524	329.00	6.750	405.00	5.959	481.00	5.307	557.00	4.786	633.00	4.265	709.00	3.772	785.00	2.862	861.00	0.242	937.00	0.000
26.00	14.371	102.00	58.639	178.00	88.096	254.00	55.880	330.00	6.741	406.00	5.949	482.00	5.302	558.00	4.780	634.00	4.258	710.00	3.766	786.00	2.843	862.00	0.215	938.00	0.000
27.00	14.049	103.00	58.392	179.00	84.881	255.00	54.263	331.00	6.732	407.00	5.941	483.00	5.296	559.00	4.772	635.00	4.252	711.00	3.761	787.00	2.824	863.00	0.192	939.00	0.000
28.00	13.692	104.00	58.051	180.00	82.180	256.00	52.677	332.00	6.722	408.00	5.933	484.00	5.290	560.00	4.763	636.00	4.247	712.00	3.756	788.00	2.805	864.00	0.170	940.00	0.000
29.00	13.329	105.00	57.692	181.00	80.160	257.00	51.129	333.00	6.711	409.00	5.924	485.00	5.284	561.00	4.755	637.00	4.241	713.00	3.752	789.00	2.787	865.00	0.151	941.00	0.000
30.00	12.978	106.00	57.432	182.00	78.992	258.00	49.622	334.00	6.697	410.00	5.914	486.00	5.278	562.00	4.750	638.00	4.235	714.00	3.746	790.00	2.769	866.00	0.134	942.00	0.000
31.00	12.645	107.00	57.410	183.00	78.806	259.00	48.157	335.00	6.683	411.00	5.903	487.00	5.269	563.00	4.745	639.00	4.227	715.00	3.739	791.00	2.750	867.00	0.119	943.00	0.000
32.00	12.373	108.00	57.794	184.00	79.607	260.00	46.736	336.00	6.673	412.00	5.891	488.00	5.258	564.00	4.739	640.00	4.218	716.00	3.730	792.00	2.732	868.00	0.105	944.00	0.000
33.00	12.275	109.00	58.785	185.00	81.258	261.00	45.358	337.00	6.664	413.00	5.881	489.00	5.249	565.00	4.733	641.00	4.210	717.00	3.724	793.00	2.714	869.00	0.093	945.00	0.000
34.00	12.492	110.00	60.558	186.00	83.506	262.00	44.022	338.00	6.655	414.00	5.873	490.00	5.244	566.00	4.727	642.00	4.205	718.00	3.719	794.00	2.697	870.00	0.082	946.00	0.000
35.00	13.145	111.00	63.137	187.00	86.026	263.00	38.329	339.00	6.645	415.00	5.865	491.00	5.239	567.00	4.720	643.00	4.199	719.00	3.715	795.00	2.679	871.00	0.073	947.00	0.000
36.00	14.328	112.00	66.451	188.00	88.489	264.00	14.528	340.00	6.634	416.00	5.856	492.00	5.233	568.00	4.710	644.00	4.194	720.00	3.710	796.00	2.661	872.00	0.064	948.00	0.000
37.00	16.109	113.00	70.428	189.00	90.610	265.00	9.975	341.00	6.620	417.00	5.846	493.00	5.226	569.00	4.703	645.00	4.187	721.00	3.705	797.00	2.644	873.00	0.057	949.00	0.000
38.00	18.445	114.00	78.828	190.00	92.189	266.00	8.426	342.00	6.607	418.00	5.835	494.00	5.220	570.00	4.698	646.00	4.180	722.00	3.698	798.00	2.627	874.00	0.050	950.00	0.000
39.00	21.298	115.00	92.444	191.00	93.111	267.00	7.873	343.00	6.596	419.00	5.823	495.00	5.211	571.00	4.693	647.00	4.171	723.00	3.690	799.00	2.610	875.00	0.044	951.00	0.000
40.00	24.577	116.00	105.491	192.00	93.336	268.00	7.653	344.00	6.588	420.00	5.813	496.00	5.200	572.00	4.687	648.00	4.163	724.00	3.684	800.00	2.593	876.00	0.039	952.00	0.000
41.00	27.328	117.00	117.221	193.00	92.885	269.00	7.550	345.00	6.579	421.00	5.805	497.00	5.192	573.00	4.681	649.00	4.157	725.00	3.679	801.00	2.576	877.00	0.034	953.00	0.000
42.00	29.581	118.00	127.054	194.00	91.819	270.00	7.450	346.00	6.569	422.00	5.796	498.00	5.187	574.00	4.676	650.00	4.151	726.00	3.675	802.00	2.559	878.00	0.030	954.00	0.000
43.00	31.102	119.00	134.694	195.00	90.231	271.00	7.450	347.00	6.558	423.00	5.787	499.00	5.181	575.00	4.668	651.00	4.145	727.00	3.670	803.00	2.543	879.00	0.026	955.00	0.000
44.00	31.947	120.00	140.111	196.00	88.234	272.00	7.418	348.00	6.545	424.00	5.778	500.00	5.175	576.00	4.659	652.00	4.136	728.00	3.665	804.00	2.526	880.00	0.023	956.00	0.000
45.00	32.280	121.00	143.468	197.00	85.941	273.00	7.392	349.00	6.531	425.00	5.767	501.00	5.169	577.00	4.652	653.00	4.127	729.00	3.658	805.00	2.510	881.00	0.020	957.00	0.000
46.00	32.127	122.00	144.980	198.00	83.449	274.00	7.373	350.00	6.521	426.00	5.756	502.00	5.163	578.00	4.646	654.00	4.119	730.00	3.650	806.00	2.494	882.00	0.018	958.00	0.000
47.00	31.527	123.00	144.856	199.00	80.841	275.00	7.360	351.00	6.512	427.00	5.746	503.00	5.154	579.00	4.641	655.00	4.114	731.00	3.644	807.00	2.478	883.00	0.016	959.00	0.000
48.00	30.533	124.00	143.293	200.00	78.173	276.00	7.349	352.00	6.504	428.00	5.738	504.00	5.144	580.00	4.636	656.00	4.109	732.00	3.639	808.00	2.462	884.00	0.014	960.00	0.000
49.00	29.163	125.00	140.444	201.00	75.497	277.00	7.336	353.00	6.494	429.00	5.729	505.00	5.135	581.00	4.630	657.00	4.104	733.00	3.634	809.00	2.446	885.00	0.012	961.00	0.000
50.00	27.557	126.00	136.475	202.00	72.892	278.00	7.320	354.00	6.483	430.00	5.720	506.00	5.130	582.00	4.624	658.00	4.098	734.00	3.630	810.00	2.430	886.00	0.010	962.00	0.000
51.00	25.964	127.00	131.672	203.00	72.042	279.00	7.303	355.00	6.470	431.00	5.710	507.00	5.125	583.00	4.617	659.00	4.089	735.00	3.625	811.00	2.415	887.00	0.009	963.00	0.000
52.00	24.527	128.00	126.408	204.00	71.264	280.00	7.291	356.00	6.457	432.00	5.700	508.00	5.119	584.00	4.607	660.00	4.079	736.00	3.618	812.00	2.400	888.00	0.008	964.00	0.000
53.00	23.256	129.00	121.087	205.00	70.604	281.00	7.283	357.00	6.446	433.00	5.690	509.00	5.113	585.00	4.600	661.00	4.072	737.00	3.610	813.00	2.385	889.00	0.007	965.00	0.000
54.00	22.133	130.00	116.118	206.00	70.109	282.00	7.276	358.00	6.438	434.00	5.681	510.00	5.106	586.00	4.594	662.00	4.067	738.00	3.603	814.00	2.370	890.00	0.006	966.00	0.000
55.00	21.164	131.00	111.891	207.00	69.819	283.00	7.267	359.00	6.429	435.00	5.673	511.00	5.098	587.00	4.589	663.00	4.063	739.00	3.598	815.00	2.355	891.00	0.005	967.00	0.000
56.00	20.397	132.00	108.774	208.00	69.770	284.00	7.256	360.00	6.420	436.00	5.665	512.00	5.087	588.00	4.583	664.00	4.058	740.00	3.594	816.00	2.340	892.00	0.005	968.00	0.000
57.00	20.111	133.00	107.094	209.00	69.978	285.00	7.242	361.00	6.409	437.00	5.656	513.00	5.079	589.00	4.577	665.00	4.052	741.00	3.589	817.00	2.325	893.00	0.004	969.00	0.000
58.00	20.390	134.00	107.053	210.00	70.408	286.00	7.227	362.00	6.396	438.00	5.646	514.00	5.074	590.00	4.569	666.00	4.043	742.00	3.584	818.00	2.311	894.00	0.004	970.00	0.000
59.00	21.814	135.00	108.616	211.00	70.986	287.00	7.216	363.00	6.383	439.00	5.636	515.00	5.069	591.00	4.560	667.00	4.034	743.00	3.577	819.00	2.297	895.00	0.003	971.00	0.000
60.00	24.304	136.00	111.545	212.00	71.621	288.00	7.208	364.00	6.373	440.00	5.624	516.00	5.063	592.00	4.552	668.00	4.027	744.00	3.570	820.00	2.282	896.00	0.003	972.00	0.000
61.00	27.808	137.00	115.572	213.00	72.227	289.00	7.201	365.00	6.364	441.00	5.615	517.00	5.057	593.00	4.547	669.00	4.022	745.00	3.563	821.00	2.268	897.00	0.002	973.00	0.000
62.00	31.874	138.00	120.413	214.00	72.738	290.00	7.192	366.00	6.356	442.00	5.608	518.00	5.050	594.00	4.541	670.00	4.017	746.00	3.558	822.00	2.254	898.00	0.002	974.00	0.000
63.00	36.118	139.00	125.661	215.00	73.523	291.00	7.182	367.00	6.346	443.00	5.601	519.00	5.042	595.00	4.535	671.00	4.012	747.00	3.552	823.00	2.240	899.00	0.002	975.00	0.000
64.00	40.450	140.00	130.802	216.00	74.053	292.00	7.168	368.00	6.335	444.00	5.593	520.00	5.032	596.00	4.529	672.00	4.007	748.00	3.545	824.00	2.226	900.00	0.002	976.00	0.000
65.00	43.000	141.00	135.359	217.00	74.051	293.00	7.153	369.00	6.323	445.00	5.585	521.00	5.024	597.00	4.520	673.00	3.998	749.00	3.535	825.00	2.213	901.00	0.001	977.00	0.000
66.00	43.210	142.00	138.973	218.00	73.578	294.00	7.141	370.00	6.310	446.00	5.578	522.00	5.019	598.00	4.511	674.00	3.989	750.00	3.524	826.00	2.199	902.00	0.001	978.00	0.000
67.00	43.504	143.00	141.422	219.00	72.821	295.00	7.133	371.00	6.300	447.00	5.568	523.00	5.013	599.00	4.503	675.00	3.982	751.00	3.513	827.00	2.184	903.00	0.001	979.00	0.000
68.00	43.850	144.00	142.613	220.00	72.403	296.00	7.126	372.00	6.291	448.00	5.555	524.00	5.007	600.00	4.497	676.00	3.977	752.00	3.501	828.00	2.168	904.00	0.001	980.00	0.000
69.00	44.213	145.00	142.570	221.00	71.874	297.00	7.117	373.00	6.283	449.00	5.546	525.00	5.001	601.00	4.491	677.00	3.973	753.00	3.488	829.00	2.148	905.00	0.001	981.00	0.000
70.00	44.560	146.00	141.377	222.00	71.250	298.00	7.106	374.00	6.274	450.00	5.540	526.00	4.995	602.00	4.485	678.00	3.968	754.00	3.473	830.00	2.121	906.00	0.001	982.00	0.000
71.00	44.864	147.00	139.080	223.00	70.539	299.00	7.091	375.00	6.263	451.00	5.535	527.00	4.987	603.00	4.479	679.00	3.962	755.00	3.458	831.00	2.087	907.00	0.001	983.00	0.000
72.00	45.100	148.00	135.735	224.00	69.750	300.00	7.076	376.00	6.250	452.00	5.528	528.00	4.977	604.00	4.471	680.00	3.954	756.00	3.441	832.00	2.061	908.00	0.001	984.00	0.000
73.00	45.250	149.00	131.535	225.00	68.901	301.00	7.064	377.00	6.238	453.00	5.522	529.00	4.969	605.00	4.461	681.00	3.945	757.00	3.423	833.00	2.031	909.00	0.001	985.00	0.000
74.00	45.302	150.00	126.755	226.00	68.037	302.00	7.055	378.00	6.228	454.00	5.515	530.00	4.964	606.00	4.453	682.00	3.938	758.00	3.406	834.00	1.991	910.00	0.000	986.00	0.000
75.00	45.246	151.00	121.642	227.00	67.225	303.00	7.047	379.00	6.220	455.00	5.506	531.00	4.958	607.00	4.447	683.00	3.933	759.00	3.387	835.00	1.940	911.00	0.000	987.00	0.000

N7 (JR SPRING)



Hydrograph Statistics:

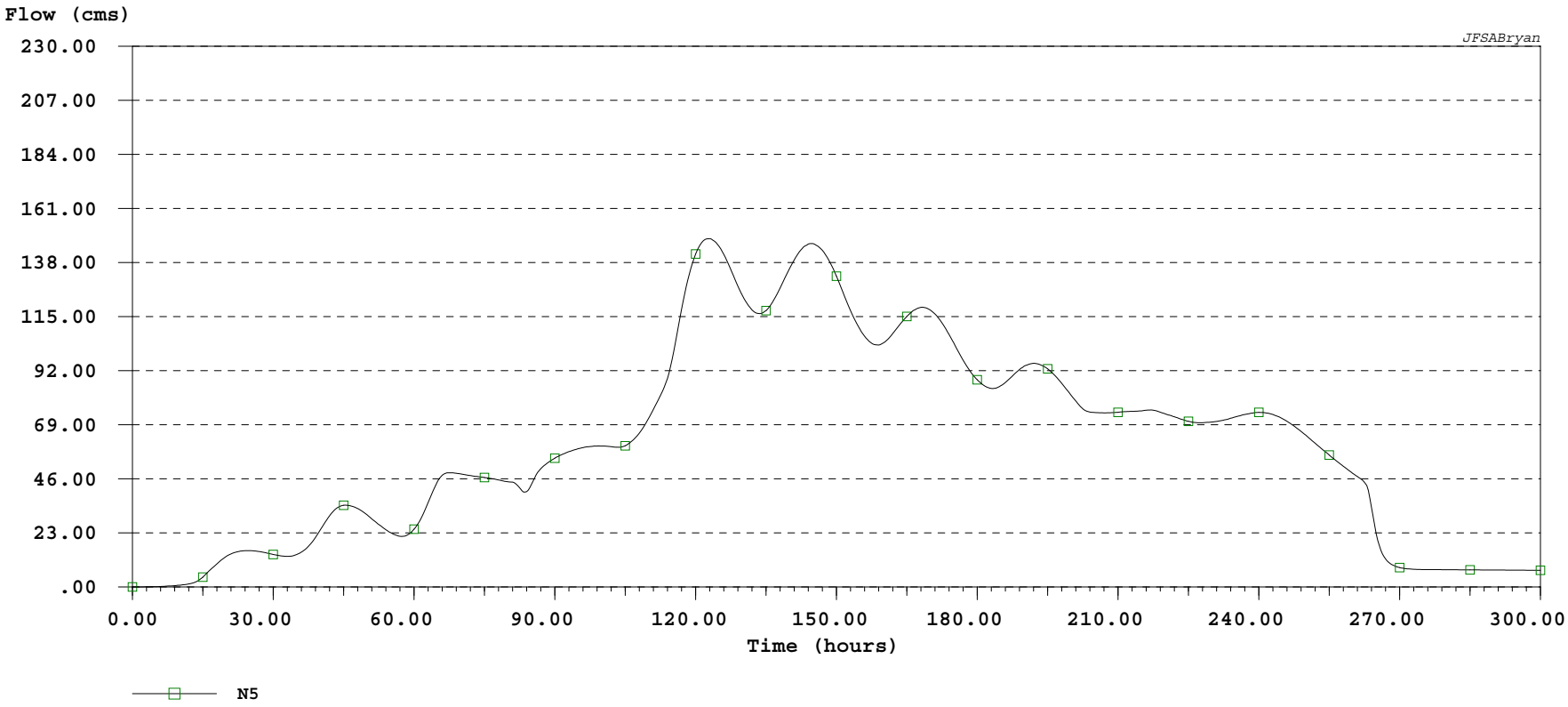
Legend	Filename & Comment	Time Step (min)	Drainage Area (ha)	Peak Flow (cms)	Time to Peak (hrs)	Runoff Volume (mm)	Runoff Volume (cu.m)	Duration of flow (hrs)	Average flow (cms)
——○——	H-N7.100 : N7	60.00	35546.00	199.309	116.000	160.27	5.697E+07	300.000	52.750

Hydrograph Table:

Hydrograph Filename : Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\JRSPRI~1\H-N7.100
Comment in file : N7

# hrs	TIME	FLOW # cms	TIME	FLOW # cms	TIME	FLOW # cms	TIME	FLOW # cms	TIME	FLOW # cms	TIME	FLOW # cms	TIME	FLOW # cms	TIME	FLOW # cms	TIME	FLOW # cms	TIME	FLOW # cms	TIME	FLOW # cms	TIME	FLOW # cms	TIME	FLOW # cms	TIME	FLOW # cms
0.00	0.000	76.00	36.886	152.00	64.110	228.00	42.412	304.00	7.029	380.00	6.202	456.00	5.480	532.00	4.946	608.00	4.434	684.00	3.923	760.00	3.347	836.00	1.680	912.00	0.000
1.00	0.068	77.00	34.106	153.00	60.259	229.00	45.621	305.00	7.014	381.00	6.192	457.00	5.478	533.00	4.940	609.00	4.428	685.00	3.918	761.00	3.327	837.00	1.595	913.00	0.000
2.00	0.227	78.00	31.600	154.00	58.182	230.00	50.784	306.00	6.995	382.00	6.180	458.00	5.473	534.00	4.933	610.00	4.421	686.00	3.910	762.00	3.307	838.00	1.506	914.00	0.000
3.00	0.426	79.00	29.395	155.00	58.357	231.00	57.880	307.00	6.982	383.00	6.166	459.00	5.467	535.00	4.921	611.00	4.410	687.00	3.899	763.00	3.286	839.00	1.416	915.00	0.000
4.00	0.648	80.00	27.735	156.00	61.373	232.00	66.616	308.00	6.975	384.00	6.155	460.00	5.460	536.00	4.911	612.00	4.400	688.00	3.891	764.00	3.265	840.00	1.324	916.00	0.000
5.00	0.876	81.00	27.238	157.00	67.642	233.00	75.743	309.00	6.967	385.00	6.148	461.00	5.454	537.00	4.908	613.00	4.396	689.00	3.888	765.00	3.244	841.00	1.232	917.00	0.000
6.00	1.097	82.00	28.052	158.00	77.000	234.00	83.185	310.00	6.958	386.00	6.140	462.00	5.447	538.00	4.904	614.00	4.391	690.00	3.884	766.00	3.223	842.00	1.141	918.00	0.000
7.00	1.304	83.00	30.295	159.00	88.317	235.00	88.133	311.00	6.946	387.00	6.131	463.00	5.432	539.00	4.898	615.00	4.385	691.00	3.879	767.00	3.202	843.00	1.052	919.00	0.000
8.00	1.512	84.00	34.161	160.00	99.389	236.00	90.408	312.00	6.932	388.00	6.121	464.00	5.420	540.00	4.892	616.00	4.379	692.00	3.874	768.00	3.181	844.00	0.966	920.00	0.000
9.00	1.752	85.00	39.168	161.00	108.628	237.00	90.202	313.00	6.915	389.00	6.109	465.00	5.418	541.00	4.886	617.00	4.372	693.00	3.867	769.00	3.160	845.00	0.883	921.00	0.000
10.00	2.073	86.00	44.977	162.00	116.039	238.00	87.915	314.00	6.902	390.00	6.095	466.00	5.414	542.00	4.879	618.00	4.361	694.00	3.856	770.00	3.139	846.00	0.805	922.00	0.000
11.00	2.534	87.00	52.048	163.00	121.437	239.00	84.065	315.00	6.896	391.00	6.084	467.00	5.407	543.00	4.867	619.00	4.351	695.00	3.848	771.00	3.118	847.00	0.731	923.00	0.000
12.00	3.200	88.00	60.927	164.00	124.425	240.00	76.915	316.00	6.889	392.00	6.078	468.00	5.400	544.00	4.857	620.00	4.347	696.00	3.845	772.00	3.098	848.00	0.662	924.00	0.000
13.00	4.152	89.00	70.885	165.00	124.791	241.00	67.059	317.00	6.880	393.00	6.070	469.00	5.394	545.00	4.855	621.00	4.342	697.00	3.841	773.00	3.077	849.00	0.598	925.00	0.000
14.00	5.302	90.00	79.829	166.00	122.569	242.00	58.375	318.00	6.868	394.00	6.061	470.00	5.387	546.00	4.850	622.00	4.336	698.00	3.836	774.00	3.056	850.00	0.538	926.00	0.000
15.00	6.469	91.00	86.019	167.00	118.024	243.00	51.216	319.00	6.854	395.00	6.051	471.00	5.372	547.00	4.844	623.00	4.330	699.00	3.831	775.00	3.036	851.00	0.484	927.00	0.000
16.00	7.703	92.00	89.129	168.00	111.398	244.00	44.488	320.00	6.837	396.00	6.039	472.00	5.361	548.00	4.838	624.00	4.323	700.00	3.824	776.00	3.016	852.00	0.434	928.00	0.000
17.00	9.073	93.00	89.408	169.00	102.807	245.00	38.059	321.00	6.825	397.00	6.025	473.00	5.359	549.00	4.832	625.00	4.312	701.00	3.813	777.00	2.996	853.00	0.389	929.00	0.000
18.00	10.434	94.00	87.358	170.00	93.396	246.00	31.615	322.00	6.818	398.00	6.015	474.00	5.354	550.00	4.826	626.00	4.303	702.00	3.805	778.00	2.976	854.00	0.348	930.00	0.000
19.00	11.562	95.00	83.599	171.00	84.719	247.00	26.153	323.00	6.810	399.00	6.008	475.00	5.348	551.00	4.814	627.00	4.299	703.00	3.802	779.00	2.956	855.00	0.310	931.00	0.000
20.00	12.405	96.00	78.758	172.00	77.154	248.00	22.058	324.00	6.800	400.00	6.000	476.00	5.341	552.00	4.804	628.00	4.294	704.00	3.798	780.00	2.936	856.00	0.277	932.00	0.000
21.00	13.008	97.00	73.398	173.00	70.600	249.00	18.903	325.00	6.789	401.00	5.991	477.00	5.335	553.00	4.802	629.00	4.288	705.00	3.793	781.00	2.917	857.00	0.246	933.00	0.000
22.00	13.392	98.00	68.050	174.00	65.097	250.00	16.620	326.00	6.775	402.00	5.982	478.00	5.328	554.00	4.797	630.00	4.282	706.00	3.788	782.00	2.897	858.00	0.219	934.00	0.000
23.00	13.543	99.00	63.071	175.00	60.455	251.00	14.867	327.00	6.759	403.00	5.970	479.00	5.314	555.00	4.791	631.00	4.275	707.00	3.781	783.00	2.878	859.00	0.194	935.00	0.000
24.00	13.496	100.00	58.565	176.00	56.600	252.00	13.420	328.00	6.748	404.00	5.957	480.00	5.303	556.00	4.785	632.00	4.264	708.00	3.771	784.00	2.859	860.00	0.172	936.00	0.000
25.00	13.305	101.00	54.394	177.00	53.565	253.00	12.201	329.00	6.741	405.00	5.946	481.00	5.301	557.00	4.779	633.00	4.255	709.00	3.763	785.00	2.840	861.00	0.153	937.00	0.000
26.00	13.022	102.00	50.731	178.00	51.576	254.00	11.186	330.00	6.733	406.00	5.939	482.00	5.296	558.00	4.773	634.00	4.251	710.00	3.760	786.00	2.821	862.00	0.135	938.00	0.000
27.00	12.694	103.00	47.292	179.00	50.846	255.00	10.361	331.00	6.723	407.00	5.932	483.00	5.290	559.00	4.761	635.00	4.246	711.00	3.756	787.00	2.802	863.00	0.120	939.00	0.000
28.00	12.355	104.00	44.325	180.00	51.817	256.00	9.737	332.00	6.712	408.00	5.923	484.00	5.283	560.00	4.752	636.00	4.240	712.00	3.751	788.00	2.784	864.00	0.106	940.00	0.000
29.00	12.023	105.00	43.069	181.00	55.106	257.00	9.281	333.00	6.698	409.00	5.913	485.00	5.277	561.00	4.749	637.00	4.234	713.00	3.746	789.00	2.766	865.00	0.093	941.00	0.000
30.00	11.710	106.00	44.333	182.00	61.024	258.00	8.931	334.00	6.682	410.00	5.902	486.00	5.270	562.00	4.744	638.00	4.227	714.00	3.739	790.00	2.747	866.00	0.082	942.00	0.000
31.00	11.411	107.00	49.117	183.00	69.120	259.00	8.648	335.00	6.671	411.00	5.888	487.00	5.256	563.00	4.739	639.00	4.217	715.00	3.729	791.00	2.729	867.00	0.073	943.00	0.000
32.00	11.190	108.00	58.908	184.00	78.050	260.00	8.410	336.00	6.664	412.00	5.878	488.00	5.245	564.00	4.732	640.00	4.208	716.00	3.721	792.00	2.711	868.00	0.064	944.00	0.000
33.00	11.203	109.00	75.400	185.00	86.503	261.00	8.205	337.00	6.656	413.00	5.871	489.00	5.243	565.00	4.727	641.00	4.204	717.00	3.718	793.00	2.694	869.00	0.056	945.00	0.000
34.00	11.550	110.00	96.389	186.00	93.355	262.00	8.035	338.00	6.646	414.00	5.864	490.00	5.238	566.00	4.721	642.00	4.199	718.00	3.714	794.00	2.676	870.00	0.050	946.00	0.000
35.00	12.315	111.00	117.106	187.00	97.886	263.00	7.898	339.00	6.635	415.00	5.855	491.00	5.232	567.00	4.709	643.00	4.193	719.00	3.710	795.00	2.659	871.00	0.044	947.00	0.000
36.00	13.626	112.00	137.593	188.00	99.764	264.00	7.788	340.00	6.622	416.00	5.845	492.00	5.225	568.00	4.699	644.00	4.187	720.00	3.705	796.00	2.641	872.00	0.038	948.00	0.000
37.00	15.543	113.00	158.287	189.00	99.098	265.00	7.701	341.00	6.606	417.00	5.834	493.00	5.219	569.00	4.697	645.00	4.180	721.00	3.699	797.00	2.624	873.00	0.034	949.00	0.000
38.00	17.905	114.00	177.077	190.00	96.316	266.00	7.632	342.00	6.594	418.00	5.821	494.00	5.212	570.00	4.692	646.00	4.170	722.00	3.689	798.00	2.607	874.00	0.030	950.00	0.000
39.00	20.396	115.00	191.521	191.00	91.993	267.00	7.571	343.00	6.588	419.00	5.810	495.00	5.198	571.00	4.687	647.00	4.160	723.00	3.681	799.00	2.590	875.00	0.026	951.00	0.000
40.00	22.879	116.00	199.309	192.00	86.693	268.00	7.520	344.00	6.580	420.00	5.803	496.00	5.188	572.00	4.681	648.00	4.156	724.00	3.678	800.00	2.573	876.00	0.023	952.00	0.000
41.00	25.253	117.00	199.306	193.00	80.907	269.00	7.478	345.00	6.570	421.00	5.795	497.00	5.186	573.00	4.675	649.00	4.150	725.00	3.674	801.00	2.557	877.00	0.020	953.00	0.000
42.00	27.077	118.00	199.191	194.00	75.057	270.00	7.443	346.00	6.559	422.00	5.786	498.00	5.181	574.00	4.669	650.00	4.144	726.00	3.669	802.00	2.540	878.00	0.017	954.00	0.000
43.00	28.235	119.00	182.741	195.00	69.519	271.00	7.416	347.00	6.546	423.00	5.776	499.00	5.175	575.00	4.657	651.00	4.137	727.00	3.665	803.00	2.524	879.00	0.015	955.00	0.000
44.00	29.016	120.00	170.448	196.00	64.584	272.00	7.388	348.00	6.530	424.00	5.766	500.00	5.168	576.00	4.648	652.00	4.125	728.00	3.659	804.00	2.507	880.00	0.013	956.00	0.000
45.00	29.375	121.00	157.631	197.00	60.226	273.00	7.369	349.00	6.519	425.00	5.754	501.00	5.162	577.00	4.645	653.00	4.116	729.00	3.649	805.00	2.491	881.00	0.012	957.00	0.000
46.00	29.216	122.00	144.385	198.00	56.468	274.00	7.359	350.00	6.512	426.00	5.744	502.00	5.155	578.00	4.641	654.00	4.113	730.00	3.641	806.00	2.475	882.00	0.010	958.00	0.000
47.00	28.632	123.00	131.096	199.00	53.210	275.00	7.349	351.00	6.504	427.00	5.736	503.00	5.142	579.00	4.635	655.00	4.109	731.00	3.638	807.00	2.459	883.00	0.009	959.00	0.000
48.00	27.606	124.00	117.767	200.00	50.271	276.00	7.337	352.00	6.495	428.00	5.728	504.00	5.131	580.00	4.629	656.00	4.103	732.00	3.634	808.00	2.444	884.00	0.008	960.00	0.000
49.00	26.165	125.00	104.060	201.00	47.615	277.00	7.322	353.00	6.484	429.00	5.718	505.00	5.129	581.00	4.624	657.00	4.098	733.00	3.629	809.00	2.428	885.00	0.007	961.00	0.000
50.00	24.627	126.00	91.098	202.00	45.522	278.00	7.302	354.00	6.471	430.00	5.709	506.00	5.124	582.00	4.617	658.00	4.090	734.00	3.624	810.00	2.412	886.00	0.006	962.00	0.000
51.00	23.234	127.00	80.392	203.00	44.520	279.00	7.288	355.00	6.456	431.00	5.699	507.00	5.118	583.00	4.606	659.00	4.077	735.00	3.618	811.00	2.397	887.00	0.005	963.00	0.000
52.00	22.004	128.00	72.413	204.00	44.892	280.00	7.282	356.00	6.444	432.00	5.688	508.00	5.112	584.00	4.596	660.00	4.069	736.00	3.609	812.00	2.382	888.00	0.005	964.00	0.000
53.00	20.897	129.00	67.268	205.00	46.730	281.00	7.276	357.00	6.438	433.00	5.679	509.00	5.105	585.00	4.593	661.00	4.066	737.00	3.601	813.00	2.367	889.00	0.004	965.00	0.000
54.00	19.921	130.00	65.227	206.00	50.083	282.00	7.268	358.00	6.430	434.00	5.672	510.00	5.099	586.00	4.589	662.00	4.062	738.00	3.597	814.00	2.352	890.00	0.004	966.00	0.000
55.00	19.084	131.00	66.724	207.00	54.949	283.00	7.258	359.00	6.420	435.00	5.664	511.00	5.086	587.00	4.583	663.00	4.057	739.00	3.593	815.00	2.338	891.00	0.003	967.00	0.000
56.00	18.432	132.00	72.317	208.00	61.384	284.00	7.244	360.00	6.410	436.00	5.655	512.00	5.075	588.00	4.577	664.00	4.052	740.00	3.589	816.00	2.323	892.00	0.003	968.00	0.000
57.00	18.247	133.00	82.145	209.00	68.449	285.00	7.226	361.00	6.397	437.00	5.645	513.00	5.073	589.00	4.570	665.00	4.044	741.00	3.584	817.00	2.309	893.00	0.002	969.00	0.000
58.00	18.775	134.00	94.989	210.00	74.474	286.00	7.213	362.00	6.382	438.00	5.635	514.00	5.068	590.00	4.559	666.00	4.032	742.00	3.578	818.00	2.294	894.00	0.002	970.00	0.000
59.00	20.163	135.00	108.453	211.00	78.675	287.00	7.207	363.00	6.371	439.00	5.622	515.00	5.062	591.00	4.549	667.00	4.024	743.00	3.568	819.00	2.280	895.00	0.002	971.00	0.000
60.00	22.593	136.00	121.449	212.00	80.698	288.00	7.201	364.00	6.364	440.00	5.612	516.00	5.056	592.00	4.545	668.00	4.021	744.00	3.561	820.00	2.266	896.00	0.002	972.00	0.000
61.00	25.819	137.00	134.310	213.00	80.609	289.00	7.193	365.00	6.356	441.00	5.607	517.00	5.050	593.00	4.540	669.00	4.017	745.00	3.557	821.00	2.252	897.00	0.001	973.00	0.000
62.00	29.213	138.00	146.130	214.00	78.754	290.00	7.183	366.00	6.347	442.00	5.600	518.00	5.043	594.00	4.534	670.00	4.012	746.00	3.551	822.00	2.238	898.00	0.001	974.00	0.000
63.00	32.848	139.00	154.828	215.00	75.643	291.00	7.170	367.00	6.336	443.00	5.592	519.00	5.030	595.00	4.528	671.00	4.006	747.00	3.544	823.00	2.224	899.00	0.001	975.00	0.000
64.00	36.758	140.00	159.206	216.00	71.778	292.00	7.152	368.00	6.324	444.00	5.584	520.00	5.020	596.00	4.521	672.00	3.999	748.00	3.535	824.00	2.210	900.00	0.001	976.00	0.000
65.00	40.356	141.00	159.194	217.00	67.615	293.00	7.139	369.00	6.309	445.00	5.577	521.00	5.017	597.00	4.509	673.00	3.987	749.00	3.523	825.00	2.197	901.00	0.001	977.00	0.000
66.00	43.511	142.00	155.343	218.00	63.561	294.00	7.133	370.00	6.298	446.00	5.569	522.00	5.013	598.00	4.499	674.00	3.979	750.00	3.511	826.00	2.182	902.00	0.001	978.00	0.000
67.00	46.162	143.00	148.488	219.00	59.705	295.00	7.126	371.00	6.291	447.00	5.553	523.00	5.007	599.00	4.496	675.00	3.976	751.00	3.500	827.00	2.167	903.00	0.001	979.00	0.000
68.00	48.102	144.00	139.662	220.00	56.186	296.00	7.118	372.00	6.283	448.00	5.541	524.00	5.000	600.00	4.490	676.00	3.972	752.00	3.486	828.00	2.148	904.00	0.001	980.00	0.000
69.00	49.188	145.00	129.883	221.00	53.033	297.00	7.108	373.00	6.274	449.00	5.539	525.00	4.994	601.00	4.484	677.00	3.967	753.00	3.471	829.00	2.122	905.00	0.000	981.00	0.000
70.00	49.389	146.00	119.462	222.00	50.072	298.00	7.093	374.00	6.264	450.00	5.534	526.00	4.988	602.00	4.478	678.00	3.962	754.00	3.457	830.00	2.086	906.00	0.000	982.00	0.000
71.00	48.727	147.00	107.703	223.00	47.178	299.00	7.075	375.00	6.252	451.00	5.528	527.00	4.975	603.00	4.471	679.00	3.955	755.00	3.439	831.00	2.041	907.00	0.000	983.00	0.000
72.00	47.303	148.00	95.659	224.00	44.374	300.00	7.061	376.00	6.237	452.00	5.521	528.00	4.965	604.00	4.459	680.00	3.943	756.00	3.421	832.00	1.984	908.00	0.000	984.00	0.000
73.00	45.275	149.00	85.197	225.00	42.020	301.00	7.055	377.00	6.226	453.00	5.514	529.00	4.963	605.00	4.449	681.00	3.935	757.00	3.403	833.00	1.917	909.00	0.000	985.00	0.000
74.00	42.736	150.00	76.576	226.00	40.666	302.00	7.047	378.00	6.219	454.00	5.507	530.00	4.958	606.00	4.446	682.00	3.932	758.00	3.385	834.00	1.844	910.00	0.000	986.00	0.000
75.00	39.842	151.00	69.573	227.00	40.774	303.00	7.039	379.00	6.211	455.00	5.492	531.00	4.952	607.00	4.441	683.00	3.928	759.00	3.366	835.00	1.763	911.00	0.000	987.00	0.000

N5 (JR SPRING)



Hydrograph Statistics:

Legend	Filename & Comment	Time Step (min)	Drainage Area (ha)	Peak Flow (cms)	Time to Peak (hrs)	Runoff Volume (mm)	Runoff Volume (cu.m)	Duration of flow (hrs)	Average flow (cms)
	H-N5.100 : N5	20.00	40055.00	148.198	123.000	164.52	6.590E+07	300.000	61.017

Hydrograph Table:

Hydrograph Filename : Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\JRSPRI~1\H-N5.100
Comment in file : N5

TIME hrs	FLOW cms	TIME hrs	FLOW cms
0.00	0.000	43.67	33.713
0.33	0.001	44.00	34.120
0.67	0.002	44.33	34.421
1.00	0.005	44.67	34.600
1.33	0.008	45.00	34.731
1.67	0.012	45.33	34.788
2.00	0.017	45.67	34.754
2.33	0.023	46.00	34.692
2.67	0.030	46.33	34.569
3.00	0.039	46.67	34.384
3.33	0.050	47.00	34.194
3.67	0.062	47.33	33.946
4.00	0.077	47.67	33.641
4.33	0.093	48.00	33.324
4.67	0.112	48.33	32.963
5.00	0.133	48.67	32.560
5.33	0.156	49.00	32.136
5.67	0.181	49.33	31.672
6.00	0.208	49.67	31.164
6.33	0.238	50.00	30.642
6.67	0.270	50.33	30.098
7.00	0.304	50.67	29.535
7.33	0.340	51.00	28.969
7.67	0.380	51.33	28.412
8.00	0.423	51.67	27.868
8.33	0.469	52.00	27.329
8.67	0.519	52.33	26.807
9.00	0.571	52.67	26.305
9.33	0.627	53.00	25.808
9.67	0.686	53.33	25.305
10.00	0.748	53.67	24.810
10.33	0.813	54.00	24.330
10.67	0.884	54.33	23.883
11.00	0.958	54.67	23.476
11.33	1.043	55.00	23.089
11.67	1.141	55.33	22.736
12.00	1.252	55.67	22.418
12.33	1.388	56.00	22.124
12.67	1.558	56.33	21.884
13.00	1.759	56.67	21.702
13.33	2.000	57.00	21.554
13.67	2.306	57.33	21.497
14.00	2.676	57.67	21.538
14.33	3.113	58.00	21.629
14.67	3.622	58.33	21.840
15.00	4.194	58.67	22.184
15.33	4.840	59.00	22.585
15.67	5.518	59.33	23.132
16.00	6.174	59.67	23.836
16.33	6.849	60.00	24.550
16.67	7.485	60.33	25.352
17.00	8.059	60.67	26.308
17.33	8.650	61.00	27.337
17.67	9.251	61.33	28.514
18.00	9.856	61.67	29.843
18.33	10.446	62.00	31.237
18.67	11.014	62.33	32.722
19.00	11.563	62.67	34.296
19.33	12.078	63.00	35.907
19.67	12.554	63.33	37.489
20.00	13.005	63.67	39.034
20.33	13.412	64.00	40.590
20.67	13.767	64.33	42.080
21.00	14.080	64.67	43.487
21.33	14.348	65.00	44.862
21.67	14.572	65.33	45.985
22.00	14.777	65.67	46.812
22.33	14.953	66.00	47.537
22.67	15.097	66.33	48.035
23.00	15.225	66.67	48.314
23.33	15.322	67.00	48.502
23.67	15.384	67.33	48.568
24.00	15.432	67.67	48.567
24.33	15.456	68.00	48.547
24.67	15.456	68.33	48.498
25.00	15.445	68.67	48.432
25.33	15.416	69.00	48.350
25.67	15.368	69.33	48.258
26.00	15.311	69.67	48.158
26.33	15.239	70.00	48.073
26.67	15.155	70.33	47.969
27.00	15.062	70.67	47.833
27.33	14.957	71.00	47.701
27.67	14.837	71.33	47.574
28.00	14.713	71.67	47.480
28.33	14.578	72.00	47.392
28.67	14.428	72.33	47.281
29.00	14.272	72.67	47.175
29.33	14.115	73.00	47.075
29.67	13.960	73.33	46.997
30.00	13.812	73.67	46.916
30.33	13.674	74.00	46.822
30.67	13.548	74.33	46.730
31.00	13.422	74.67	46.637
31.33	13.308	75.00	46.548
31.67	13.207	75.33	46.473
32.00	13.115	75.67	46.380
32.33	13.047	76.00	46.262
32.67	13.008	76.33	46.144
33.00	12.993	76.67	46.022
33.33	13.015	77.00	45.927
33.67	13.077	77.33	45.815
34.00	13.167	77.67	45.664
34.33	13.324	78.00	45.518
34.67	13.548	78.33	45.391
35.00	13.800	78.67	45.252
35.33	14.100	79.00	45.092
35.67	14.446	79.33	44.947
36.00	14.811	79.67	44.842
36.33	15.242	80.00	44.751
36.67	15.755	80.33	44.669
37.00	16.311	80.67	44.639
37.33	16.943	81.00	44.657
37.67	17.651	81.33	44.408
38.00	18.389	81.67	43.876
38.33	19.207	82.00	43.297
38.67	20.119	82.33	42.578
39.00	21.066	82.67	41.748
39.33	22.086	83.00	40.882
39.67	23.175	83.33	40.411
40.00	24.230	83.67	40.420
40.33	25.254	84.00	40.562
40.67	26.290	84.33	41.157
41.00	27.335	84.67	42.260
41.33	28.356	85.00	43.561
41.67	29.333	85.33	44.920
42.00	30.287	85.67	46.267
42.33	31.157	86.00	47.634
42.67	31.927	86.33	48.746
43.00	32.649	86.67	49.552
43.33	33.248	87.00	50.278

TIME hrs	FLOW cms	TIME hrs	FLOW cms
87.33	50.932	131.00	120.464
87.67	51.523	131.33	119.508
88.00	52.062	131.67	118.701
88.33	52.594	132.00	117.896
88.67	53.074	132.33	117.295
89.00	53.515	132.67	116.788
89.33	53.956	133.00	116.458
89.67	54.388	133.33	116.308
90.00	54.787	133.67	116.265
90.33	55.174	134.00	116.302
90.67	55.544	134.33	116.594
91.00	55.868	134.67	117.123
91.33	56.177	135.00	117.571
91.67	56.477	135.33	118.236
92.00	56.759	135.67	119.099
92.33	57.030	136.00	119.981
92.67	57.326	136.33	120.987
93.00	57.559	136.67	122.148
93.33	57.776	137.00	123.275
93.67	58.018	137.33	124.516
94.00	58.213	137.67	125.853
94.33	58.404	138.00	127.178
94.67	58.621	138.33	128.554
95.00	58.823	138.67	129.991
95.33	58.962	139.00	131.395
95.67	59.100	139.33	132.745
96.00	59.290	139.67	134.082
96.33	59.442	140.00	135.405
96.67	59.549	140.33	136.689
97.00	59.611	140.67	137.902
97.33	59.668	141.00	139.114
97.67	59.752	141.33	140.230
98.00	59.837	141.67	141.268
98.33	59.896	142.00	142.285
98.67	59.922	142.33	143.161
99.00	59.945	142.67	143.864
99.33	59.952	143.00	144.678
99.67	59.946	143.33	145.127
100.00	59.946	143.67	145.427
100.33	59.933	144.00	145.863
100.67	59.901	144.33	146.069
101.00	59.864	144.67	146.073
101.33	59.808	145.00	146.052
101.67	59.732	145.33	145.839
102.00	59.658	145.67	145.432
102.33	59.584	146.00	145.017
102.67	59.509	146.33	144.453
103.00	59.445	146.67	143.840
103.33	59.407	147.00	143.173
103.67	59.412	147.33	142.329
104.00	59.469	147.67	141.311
104.33	59.598	148.00	140.316
104.67	59.808	148.33	139.173
105.00	60.097	148.67	137.915
105.33	60.439	149.00	136.634
105.67	60.880	149.33	135.261
106.00	61.371	149.67	133.730
106.33	61.920	150.00	132.182
106.67	62.511	150.33	130.661
107.00	63.145	150.67	128.956
107.33	63.851	151.00	127.299
107.67	64.597	151.33	125.626
108.00	65.421	151.67	123.945
108.33	66.325	152.00	122.283
108.67	67.316	152.33	120.664
109.00	68.329	152.67	119.091
109.33	69.424	153.00	117.550
109.67	70.593	153.33	116.074
110.00	71.754	153.67	114.670
110.33	72.987	154.00	113.308
110.67	74.294	154.33	112.029
111.00	75.573	154.67	110.827
111.33	76.851	155.00	109.655
111.67	78.153	155.33	108.516
112.00	79.453	155.67	107.582
112.33	80.792	156.00	106.650
112.67	82.164	156.33	105.813
113.00	83.507	156.67	105.116
113.33	85.073	157.00	104.418
113.67	86.885	157.33	103.880
114.00	88.693	157.67	103.425
114.33	91.022	158.00	103.127
114.67	93.922	158.33	102.984
115.00	96.900	158.67	102.924
115.33	100.157	159.00	102.918
115.67	103.694	159.33	103.086
116.00	107.343	159.67	103.429
116.33	110.997	160.00	103.797
116.67	114.578	160.33	104.223
117.00	118.148	160.67	104.828
117.33	121.511	161.00	105.464
117.67	124.660	161.33	106.195
118.00	127.792	161.67	106.995
118.33	130.639	162.00	107.797
118.67	133.147	162.33	108.633
119.00	135.630	162.67	109.505
119.33	137.853	163.00	110.355
119.67	139.768	163.33	111.195
120.00	141.642	163.67	112.028
120.33	143.204	164.00	112.837
120.67	144.545	164.33	113.609
121.00	145.711	164.67	114.336
121.33	146.578	165.00	115.059
121.67	147.314	165.33	115.717
122.00	147.786	165.67	116.323
122.33	148.013	166.00	116.913
122.67	148.136	166.33	117.500
123.00	148.198	166.67	117.848
123.33	148.004	167.00	118.212
123.67	147.553	167.33	118.585
124.00	147.081	167.67	118.791
124.33	146.524	168.00	118.954
124.67	145.717	168.33	118.980
125.00	144.884	168.67	118.878
125.33	143.858	169.00	118.775
125.67	142.689	169.33	118.542
126.00	141.488	169.67	118.166
126.33	140.176	170.00	117.773
126.67	138.721	170.33	117.257
127.00	137.290	170.67	116.713
127.33	135.779	171.00	116.122
127.67	134.193	171.33	115.405
128.00	132.671	171.67	114.567
128.33	131.024	172.00	113.738
128.67	129.462	172.33	112.803
129.00	127.952	172.67	111.790
129.33	126.522	173.00	110.757
129.67	125.162	173.33	109.673
130.00	123.847	173.67	108.518
130.33	122.563	174.00	107.366
130.67	121.514	174.33	106.173

TIME hrs	FLOW cms	TIME hrs	FLOW cms
174.67	104.952	218.33	74.804
175.00	103.795	218.67	74.572
175.33	102.488	219.00	74.336
175.67	101.194	219.33	74.098
176.00	99.948	219.67	73.908
176.33	98.740	220.00	73.697
176.67	97.566	220.33	73.438
177.00	96.419	220.67	73.211
177.33	95.317	221.00	73.048
177.67	94.258	221.33	72.860
178.00	93.221	221.67	72.599
178.33	92.239	222.00	72.357
178.67	91.248	222.33	72.172
179.00	90.387	222.67	71.964
179.33	89.590	223.00	71.694
179.67	88.834	223.33	71.438
180.00	88.106	223.67	71.248
180.33	87.453	224.00	71.052
180.67	86.882	224.33	70.804
181.00	86.304	224.67	70.586
181.33	85.827	225.00	70.442
181.67	85.369	225.33	70.307
182.00	85.043	225.67	70.147
182.33	84.806	226.00	70.028
182.67	84.588	226.33	69.944
183.00	84.418	226.67	69.887
183.33	84.383	227.00	69.853
183.67	84.483	227.33	69.844
184.00	84.606	227.67	69.853
184.33	84.845	228.00	69.866
184.67	85.205	228.33	69.899
185.00	85.577	228.67	69.948
185.33	85.960	229.00	69.991
185.67	86.463	229.33	70.041
186.00	86.990	229.67	70.102
186.33	87.573	230.00	70.161
186.67	88.195	230.33	70.231
187.00	88.819	230.67	70.313
187.33	89.452	231.00	70.389
187.67	90.094	231.33	70.490
188.00	90.727	231.67	70.619
188.33	91.331	232.00	70.742
188.67	91.916	232.33	70.887
189.00	92.486	232.67	71.055
189.33	92.995	233.00	71.166
189.67	93.427	233.33	71.316
190.00	93.923	233.67	71.548
190.33	94.209	234.00	71.756
190.67	94.426	234.33	71.921
191.00	94.738	234.67	72.107
191.33	94.938	235.00	72.330
191.67	95.034	235.33	72.538
192.00	95.109	235.67	72.692
192.33	95.086	236.00	72.848
192.67	94.964	236.33	73.054
193.00	94.839	236.67	73.238
193.33	94.630	237.00	73.402
193.67	94.332	237.33	73.498
194.00	94.026	237.67	73.599
194.33	93.641	238.00	73.757
194.67	93.252	238.33	73.886
195.00	92.812	238.67	73.996
195.33	92.270	239.00	74.111
195.67	91.653	239.33	74.183
196.00	91.048	239.67	74.205
196.33	90.384	240.00	74.221
196.67	89.675	240.33	74.215
197.00	88.949	240.67	74.193
197.33	88.193	241.00	74.176
197.67	87.397	241.33	74.117
198.00	86.600	241.67	74.013
198.33	85.778	242.00	73.905
198.67	84.938	242.33	73.750
199.00	84.096	242.67	73.546
199.33	83.251	243.00	73.337
199.67	82.401	243.33	73.096
200.00	81.559	243.67	72.821
200.33	80.725	244.00	72.604
200.67	79.897	244.33	72.333
201.00	79.081	244.67	71.952
201.33	78.281	245.00	71.642
201.67	77.482	245.33	71.291
202.00	76.684	245.67	70.891
202.33	76.039	246.00	70.486
202.67	75.522	246.33	70.063
203.00	75.055	246.67	69.613
203.33	74.725	247.00	69.165
203.67	74.568	247.33	68.694
204.00	74.401	247.67	68.206
204.33	74.291	248.00	67.711
204.67	74.222	248.33	67.206
205.00	74.170	248.67	66.684
205.33	74.140	249.00	66.163
205.67	74.125	249.33	65.629
206.00	74.100	249.67	65.084
206.33	74.081	250.00	64.536
206.67	74.074	250.33	63.978
207.00	74.063	250.67	63.408
207.33	74.065	251.00	62.838
207.67	74.077	251.33	62.264
208.00	74.078	251.67	61.690
208.33	74.095	252.00	61.114
208.67	74.133	252.33	60.545
209.00	74.165	252.67	59.985
209.33	74.210	253.00	59.425
209.67	74.268	253.33	58.871
210.00	74.316	253.67	58.322
210.33	74.372	254.00	57.775
210.67	74.435	254.33	57.231
211.00	74.483	254.67	56.689
211.33	74.531	255.00	56.126
211.67	74.583	255.33	55.556
212.00	74.625	255.67	55.003
212.33	74.660	256.00	54.461
212.67	74.688	256.33	53.928
213.00	74.708	256.67	53.405
213.33	74.723	257.00	52.886
213.67	74.737	257.33	52.369
214.00	74.758	257.67	51.855
214.33	74.797	258.00	51.342
214.67	74.853	258.33	50.831
215.00	74.916	258.67	50.324
215.33	74.990	259.00	49.817
215.67	75.080	259.33	49.319
216.00	75.181	259.67	48.831
216.33	75.246	260.00	48.345
216.67	75.267	260.33	47.869
217.00	75.287	260.67	47.403
217.33	75.240	261.00	46.940
217.67	75.118	261.33	46.484
218.00	74.986	261.67	46.036

TIME hrs	FLOW cms	TIME hrs	FLOW cms
262.00	45.589	305.67	7.042
262.33	44.946	306.00	7.039
262.67	44.095	306.33	7.035
263.00	43.164	306.67	7.031
263.33	41.058	307.00	7.027
263.67	37.585	307.33	7.023
264.00	33.838	307.67	7.018
264.33	30.156	308.00	7.013
264.67	26.401	308.33	7.007
265.00	22.645	308.67	7.002
265.33	19.799	309.00	6.998
265.67	17.635	309.33	6.993
266.00	15.614	309.67	6.989
266.33	14.080	310.00	6.986
266.67	12.921	310.33	6.983
267.00	11.897	310.67	6.980
267.33	11.091	311.00	6.977
267.67	10.472	311.33	6.974
268.00	9.939	311.67	6.971
268.33	9.503	312.00	6.968
268.67	9.155	312.33	6.965
269.00	8.854	312.67	6.962
269.33	8.604	313.00	6.958
269.67	8.401	313.33	6.954
270.00	8.224	313.67	6.950
270.33	8.078	314.00	6.946
270.67	7.960	314.33	6.942
271.00	7.859	314.67	6.937
271.33	7.776	315.00	6.932
271.67	7.709	315.33	6.927
272.00	7.651	315.67	6.922
272.33	7.604	316.00	6.918
272.67	7.565	316.33	6.913
273.00	7.533	316.67	6.910
273.33	7.506	317.00	6.907
273.67	7.484	317.33	6.904
274.00	7.465	317.67	6.901
274.33	7.448	318.00	6.898
274.67	7.434	318.33	6.895
275.00	7.420	318.67	6.893
275.33	7.408	319.00	6.890
275.67	7.397	319.33	6.886
276.00	7.388	319.67	6.883
276.33	7.380	320.00	6.879
276.67	7.373	320.33	6.876
277.00	7.368	320.67	6.872
277.33	7.362	321.00	6.869
277.67	7.357	321.33	6.864
278.00	7.352	321.67	6.860
278.33	7.347	322.00	6.855
278.67	7.343	322.33	6.850
279.00	7.338	322.67	6.845
279.33	7.332	323.00	6.840
279.67	7.326	323.33	6.836
280.00	7.320	323.67	6.832
280.33	7.315	324.00	6.829
280.67	7.310	324.33	6.826
281.00	7.304	324.67	6.823
281.33	7.300	325.00	6.820
281.67	7.296	325.33	6.817
282.00	7.293	325.67	6.813
282.33	7.290	326.00	6.810
282.67	7.287	326.33	6.807
283.00	7.285	326.67	6.804
283.33	7.282	327.00	6.801
283.67	7.279	327.33	6.797
284.00	7.277	327.67	6.794
284.33	7.274	328.00	6.790
284.67	7.271	328.33	6.785
285.00	7.267	328.67	6.779
285.33	7.264	329.00	6.773
285.67	7.260	329.33	6.768
286.00	7.256	329.67	6.763
286.33	7.251	330.00	6.758
286.67	7.247	330.33	6.754
287.00	7.242	330.67	6.751
287.33	7.237	331.00	6.745
287.67	7.232	331.33	6.740
288.00	7.227	331.67	6.738
288.33	7.223	332.00	6.736
288.67	7.220	332.33	6.734
289.00	7.217	332.67	6.732
289.33	7.214	333.00	6.729
289.67	7.212	333.33	6.726
290.00	7.209	333.67	6.723
290.33	7.207	334.00	6.720
290.67	7.204	334.33	6.716
291.00	7.201	334.67	6.713
291.33	7.199	335.00	6.709
291.67	7.196	335.33	6.705
292.00	7.193	335.67	6.699
292.33	7.189	336.00	6.694
292.67	7.186	336.33	6.689
293.00	7.181	336.67	6.685
293.33	7.177	337.00	6.674
293.67	7.172	337.33	6.665
294.00	7.167	337.67	6.665
294.33	7.163	338.00	6.664
294.67	7.158	338.33	6.663
295.00	7.153	338.67	6.661
295.33	7.149	339.00	6.660
295.67	7.146	339.33	6.658
296.00	7.143	339.67	6.655
296.33	7.140	340.00	6.653
296.67	7.137	340.33	6.650
297.00	7.135	340.67	6.647
297.33	7.132	341.00	6.643
297.67	7.129	341.33	6.640
298.00	7.127	341.67	6.636
298.33	7.124	342.00	6.632
298.67	7.121	342.33	6.628
299.00	7.117	342.67	6.623
299.33	7.114	343.00	6.618
299.67	7.110	343.33	6.607
300.00	7.106	343.67	6.597
300.33	7.101	344.00	6.595
300.67	7.096	344.33	6.594
301.00	7.091	344.67	6.592
301.33	7.086	345.00	6.591
301.67	7.081	345.33	6.589
302.00	7.077	345.67	6.587
302.33	7.072	346.00	6.585
302.67	7.069	346.33	6.583
303.00	7.066	346.67	6.580
303.33	7.063	347.00	6.577
303.67	7.060	347.33	6.574
304.00	7.057	347.67	6.571
304.33	7.054	348.00	6.568
304.67	7.051	348.33	6.564
305.00	7.049	348.67	6.561
305.33	7.046	349.00	6.557

TIME hrs	FLOW cms	TIME hrs	FLOW cms
349.33	6.553	393.00	6.097
349.67	6.548	393.33	6.094
350.00	6.536	393.67	6.091
350.33	6.526	394.00	6.088
350.67	6.525	394.33	6.081
351.00	6.522	394.67	6.074
351.33	6.520	395.00	6.073
351.67	6.518	395.33	6.072
352.00	6.517	395.67	6.071
352.33	6.515	396.00	6.069
352.67	6.513	396.33	6.067
353.00	6.510	396.67	6.064
353.33	6.508	397.00	6.062
353.67	6.505	397.33	6.059
354.00	6.502	397.67	6.056
354.33	6.499	398.00	6.053
354.67	6.496	398.33	6.049
355.00	6.493	398.67	6.045
355.33	6.490	399.00	6.040
355.67	6.486	399.33	6.036
356.00	6.482	399.67	6.032
356.33	6.478	400.00	6.028
356.67	6.467	400.33	6.020
357.00	6.457	400.67	6.013
357.33	6.455	401.00	6.012
357.67	6.453	401.33	6.011
358.00	6.450	401.67	6.010
358.33	6.447	402.00	6.008
358.67	6.445	402.33	6.006
359.00	6.443	402.67	6.004
359.33	6.441	403.00	6.001
359.67	6.439	403.33	5.999
360.00	6.436	403.67	5.996
360.33	6.434	404.00	5.993
360.67	6.431	404.33	5.990
361.00	6.428	404.67	5.987
361.33	6.426	405.00	5.984
361.67	6.422	405.33	5.980
362.00	6.419	405.67	5.976
362.33	6.416	406.00	5.972
362.67	6.412	406.33	5.968
363.00	6.403	406.67	5.959
363.33	6.394	407.00	5.951
363.67	6.392	407.33	5.949
364.00	6.389	407.67	5.948
364.33	6.385	408.00	5.947
364.67	6.382	408.33	5.945
365.00	6.379	408.67	5.943
365.33	6.376	409.00	5.941
365.67	6.373	409.33	5.938
366.00	6.371	409.67	5.936
366.33	6.369	410.00	5.934
366.67	6.366	410.33	5.931
367.00	6.364	410.67	5.928
367.33	6.361	411.00	5.925
367.67	6.358	411.33	5.922
368.00	6.355	411.67	5.919
368.33	6.352	412.00	5.916
368.67	6.349	412.33	5.912
369.00	6.346	412.67	5.908
369.33	6.337	413.00	5.899
369.67	6.329	413.33	5.891
370.00	6.328	413.67	5.889
370.33	6.325	414.00	5.887
370.67	6.322	414.33	5.884
371.00	6.318	414.67	5.882
371.33	6.315	415.00	5.880
371.67	6.311	415.33	5.878
372.00	6.307	415.67	5.876
372.33	6.304	416.00	5.874
372.67	6.301	416.33	5.871
373.00	6.299	416.67	5.869
373.33	6.296	417.00	5.866
373.67	6.294	417.33	5.864
374.00	6.291	417.67	5.861
374.33	6.289	418.00	5.858
374.67	6.286	418.33	5.855
375.00	6.283	418.67	5.852
375.33	6.280	419.00	5.848
375.67	6.271	419.33	5.840
376.00	6.264	419.67	5.833
376.33	6.263	420.00	5.830
376.67	6.261	420.33	5.827
377.00	6.259	420.67	5.825
377.33	6.256	421.00	5.821
377.67	6.252	421.33	5.819
378.00	6.248	421.67	5.816
378.33	6.244	422.00	5.814
378.67	6.240	422.33	5.811
379.00	6.236	422.67	5.809
379.33	6.233	423.00	5.806
379.67	6.230	423.33	5.804
380.00	6.228	423.67	5.801
380.33	6.225	424.00	5.798
380.67	6.223	424.33	5.796
381.00	6.220	424.67	5.793
381.33	6.218	425.00	5.790
381.67	6.215	425.33	5.787
382.00	6.207	425.67	5.779
382.33	6.200	426.00	5.772
382.67	6.199	426.33	5.771
383.00	6.198	426.67	5.768
383.33	6.196	427.00	5.765
383.67	6.193	427.33	5.762
384.00	6.191	427.67	5.759
384.33	6.187	428.00	5.755
384.67	6.183	428.33	5.752
385.00	6.179	428.67	5.750
385.33	6.175	429.00	5.747
385.67	6.171	429.33	5.745
386.00	6.167	429.67	5.742
386.33	6.164	430.00	5.739
386.67	6.161	430.33	5.737
387.00	6.159	430.67	5.734
387.33	6.156	431.00	5.731
387.67	6.153	431.33	5.728
388.00	6.151	431.67	5.721
388.33	6.143	432.00	5.715
388.67	6.136	432.33	5.714
389.00	6.135	432.67	5.712
389.33	6.134	433.00	5.710
389.67	6.132	433.33	5.707
390.00	6.130	433.67	5.704
390.33	6.127	434.00	5.701
390.67	6.124	434.33	5.698
391.00	6.121	434.67	5.694
391.33	6.118	435.00	5.691
391.67	6.114	435.33	5.688
392.00	6.110	435.67	5.685
392.33	6.105	436.00	5.683
392.67	6.101	436.33	5.680

TIME hrs	FLOW cms	TIME hrs	FLOW cms
436.67	5.678	480.33	5.334
437.00	5.675	480.67	5.330
437.33	5.673	481.00	5.323
437.67	5.670	481.33	5.318
438.00	5.663	481.67	5.316
438.33	5.657	482.00	5.315
438.67	5.656	482.33	5.314
439.00	5.654	482.67	5.312
439.33	5.652	483.00	5.310
439.67	5.650	483.33	5.309
440.00	5.647	483.67	5.307
440.33	5.644	484.00	5.305
440.67	5.641	484.33	5.303
441.00	5.637	484.67	5.302
441.33	5.633	485.00	5.300
441.67	5.630	485.33	5.298
442.00	5.626	485.67	5.296
442.33	5.623	486.00	5.294
442.67	5.621	486.33	5.292
443.00	5.618	486.67	5.290
443.33	5.616	487.00	5.288
443.67	5.613	487.33	5.285
444.00	5.611	487.67	5.282
444.33	5.604	488.00	5.279
444.67	5.599	488.33	5.276
445.00	5.598	488.67	5.269
445.33	5.597	489.00	5.263
445.67	5.595	489.33	5.261
446.00	5.594	489.67	5.260
446.33	5.592	490.00	5.258
446.67	5.590	490.33	5.256
447.00	5.587	490.67	5.255
447.33	5.585	491.00	5.253
447.67	5.581	491.33	5.251
448.00	5.578	491.67	5.250
448.33	5.574	492.00	5.248
448.67	5.571	492.33	5.246
449.00	5.567	492.67	5.244
449.33	5.564	493.00	5.242
449.67	5.561	493.33	5.240
450.00	5.558	493.67	5.238
450.33	5.556	494.00	5.236
450.67	5.553	494.33	5.234
451.00	5.547	494.67	5.232
451.33	5.542	495.00	5.230
451.67	5.541	495.33	5.227
452.00	5.540	495.67	5.224
452.33	5.539	496.00	5.221
452.67	5.538	496.33	5.215
453.00	5.536	496.67	5.209
453.33	5.534	497.00	5.207
453.67	5.533	497.33	5.205
454.00	5.531	497.67	5.203
454.33	5.529	498.00	5.202
454.67	5.527	498.33	5.200
455.00	5.524	498.67	5.198
455.33	5.522	499.00	5.196
455.67	5.519	499.33	5.194
456.00	5.515	499.67	5.193
456.33	5.512	500.00	5.191
456.67	5.508	500.33	5.189
457.00	5.505	500.67	5.187
457.33	5.502	501.00	5.185
457.67	5.499	501.33	5.183
458.00	5.496	501.67	5.181
458.33	5.490	502.00	5.179
458.67	5.485	502.33	5.177
459.00	5.484	502.67	5.175
459.33	5.483	503.00	5.173
459.67	5.482	503.33	5.170
460.00	5.481	503.67	5.168
460.33	5.479	504.00	5.161
460.67	5.478	504.33	5.156
461.00	5.476	504.67	5.154
461.33	5.474	505.00	5.151
461.67	5.472	505.33	5.149
462.00	5.470	505.67	5.147
462.33	5.468	506.00	5.145
462.67	5.466	506.33	5.144
463.00	5.464	506.67	5.142
463.33	5.461	507.00	5.140
463.67	5.458	507.33	5.138
464.00	5.455	507.67	5.136
464.33	5.452	508.00	5.134
464.67	5.448	508.33	5.132
465.00	5.445	508.67	5.131
465.33	5.442	509.00	5.129
465.67	5.435	509.33	5.127
466.00	5.430	509.67	5.125
466.33	5.429	510.00	5.123
466.67	5.428	510.33	5.121
467.00	5.427	510.67	5.119
467.33	5.425	511.00	5.117
467.67	5.424	511.33	5.114
468.00	5.422	511.67	5.108
468.33	5.420	512.00	5.103
468.67	5.419	512.33	5.101
469.00	5.417	512.67	5.098
469.33	5.415	513.00	5.096
469.67	5.413	513.33	5.094
470.00	5.411	513.67	5.092
470.33	5.409	514.00	5.090
470.67	5.407	514.33	5.088
471.00	5.405	514.67	5.086
471.33	5.402	515.00	5.084
471.67	5.399	515.33	5.082
472.00	5.396	515.67	5.080
472.33	5.392	516.00	5.078
472.67	5.389	516.33	5.077
473.00	5.386	516.67	5.075
473.33	5.379	517.00	5.073
473.67	5.373	517.33	5.071
474.00	5.372	517.67	5.069
474.33	5.371	518.00	5.067
474.67	5.370	518.33	5.065
475.00	5.368	518.67	5.063
475.33	5.367	519.00	5.061
475.67	5.365	519.33	5.055
476.00	5.363	519.67	5.050
476.33	5.362	520.00	5.048
476.67	5.360	520.33	5.046
477.00	5.358	520.67	5.044
477.33	5.356	521.00	5.041
477.67	5.354	521.33	5.039
478.00	5.352	521.67	5.037
478.33	5.350	522.00	5.035
478.67	5.348	522.33	5.033
479.00	5.346	522.67	5.031
479.33	5.343	523.00	5.029
479.67	5.340	523.33	5.027
480.00	5.337	523.67	5.025

TIME hrs	FLOW cms	TIME hrs	FLOW cms
524.00	5.023	567.67	4.733
524.33	5.021	568.00	4.730
524.67	5.019	568.33	4.728
525.00	5.017	568.67	4.725
525.33	5.016	569.00	4.722
525.67	5.014	569.33	4.720
526.00	5.012	569.67	4.717
526.33	5.010	570.00	4.715
526.67	5.005	570.33	4.713
527.00	5.000	570.67	4.708
527.33	4.999	571.00	4.704
527.67	4.997	571.33	4.703
528.00	4.995	571.67	4.702
528.33	4.992	572.00	4.701
528.67	4.990	572.33	4.700
529.00	4.987	572.67	4.698
529.33	4.985	573.00	4.696
529.67	4.982	573.33	4.695
530.00	4.980	573.67	4.693
530.33	4.978	574.00	4.691
530.67	4.976	574.33	4.690
531.00	4.974	574.67	4.688
531.33	4.972	575.00	4.686
531.67	4.970	575.33	4.684
532.00	4.969	575.67	4.681
532.33	4.967	576.00	4.679
532.67	4.965	576.33	4.676
533.00	4.963	576.67	4.673
533.33	4.961	577.00	4.671
533.67	4.959	577.33	4.668
534.00	4.954	577.67	4.666
534.33	4.950	578.00	4.661
534.67	4.949	578.33	4.657
535.00	4.948	578.67	4.656
535.33	4.946	579.00	4.655
535.67	4.944	579.33	4.653
536.00	4.941	579.67	4.652
536.33	4.939	580.00	4.650
536.67	4.936	580.33	4.649
537.00	4.933	580.67	4.647
537.33	4.931	581.00	4.646
537.67	4.928	581.33	4.644
538.00	4.926	581.67	4.642
538.33	4.924	582.00	4.640
538.67	4.922	582.33	4.639
539.00	4.920	582.67	4.637
539.33	4.918	583.00	4.635
539.67	4.916	583.33	4.633
540.00	4.914	583.67	4.630
540.33	4.913	584.00	4.628
540.67	4.911	584.33	4.625
541.00	4.909	584.67	4.622
541.33	4.904	585.00	4.619
541.67	4.900	585.33	4.614
542.00	4.899	585.67	4.610
542.33	4.898	586.00	4.609
542.67	4.896	586.33	4.607
543.00	4.895	586.67	4.606
543.33	4.893	587.00	4.604
543.67	4.891	587.33	4.603
544.00	4.888	587.67	4.601
544.33	4.885	588.00	4.599
544.67	4.883	588.33	4.597
545.00	4.880	588.67	4.596
545.33	4.877	589.00	4.594
545.67	4.875	589.33	4.592
546.00	4.873	589.67	4.590
546.33	4.871	590.00	4.588
546.67	4.869	590.33	4.586
547.00	4.867	590.67	4.584
547.33	4.865	591.00	4.581
547.67	4.863	591.33	4.578
548.00	4.861	591.67	4.575
548.33	4.859	592.00	4.573
548.67	4.854	592.33	4.568
549.00	4.850	592.67	4.564
549.33	4.849	593.00	4.562
549.67	4.848	593.33	4.561
550.00	4.847	593.67	4.559
550.33	4.846	594.00	4.557
550.67	4.844	594.33	4.555
551.00	4.842	594.67	4.554
551.33	4.840	595.00	4.552
551.67	4.838	595.33	4.550
552.00	4.835	595.67	4.548
552.33	4.832	596.00	4.546
552.67	4.830	596.33	4.544
553.00	4.827	596.67	4.542
553.33	4.824	597.00	4.540
553.67	4.822	597.33	4.538
554.00	4.820	597.67	4.535
554.33	4.818	598.00	4.533
554.67	4.816	598.33	4.530
555.00	4.814	598.67	4.527
555.33	4.812	599.00	4.522
555.67	4.810	599.33	4.517
556.00	4.805	599.67	4.516
556.33	4.801	600.00	4.514
556.67	4.800	600.33	4.512
557.00	4.799	600.67	4.510
557.33	4.798	601.00	4.508
557.67	4.797	601.33	4.507
558.00	4.795	601.67	4.505
558.33	4.793	602.00	4.503
558.67	4.792	602.33	4.501
559.00	4.790	602.67	4.499
559.33	4.788	603.00	4.497
559.67	4.785	603.33	4.495
560.00	4.783	603.67	4.493
560.33	4.780	604.00	4.491
560.67	4.777	604.33	4.488
561.00	4.774	604.67	4.486
561.33	4.772	605.00	4.483
561.67	4.769	605.33	4.480
562.00	4.767	605.67	4.475
562.33	4.765	606.00	4.470
562.67	4.763	606.33	4.468
563.00	4.761	606.67	4.467
563.33	4.757	607.00	4.465
563.67	4.753	607.33	4.463
564.00	4.752	607.67	4.461
564.33	4.750	608.00	4.459
564.67	4.749	608.33	4.457
565.00	4.748	608.67	4.455
565.33	4.746	609.00	4.453
565.67	4.745	609.33	4.451
566.00	4.743	609.67	4.449
566.33	4.741	610.00	4.447
566.67	4.739	610.33	4.445
567.00	4.738	610.67	4.443
567.33	4.735	611.00	4.441

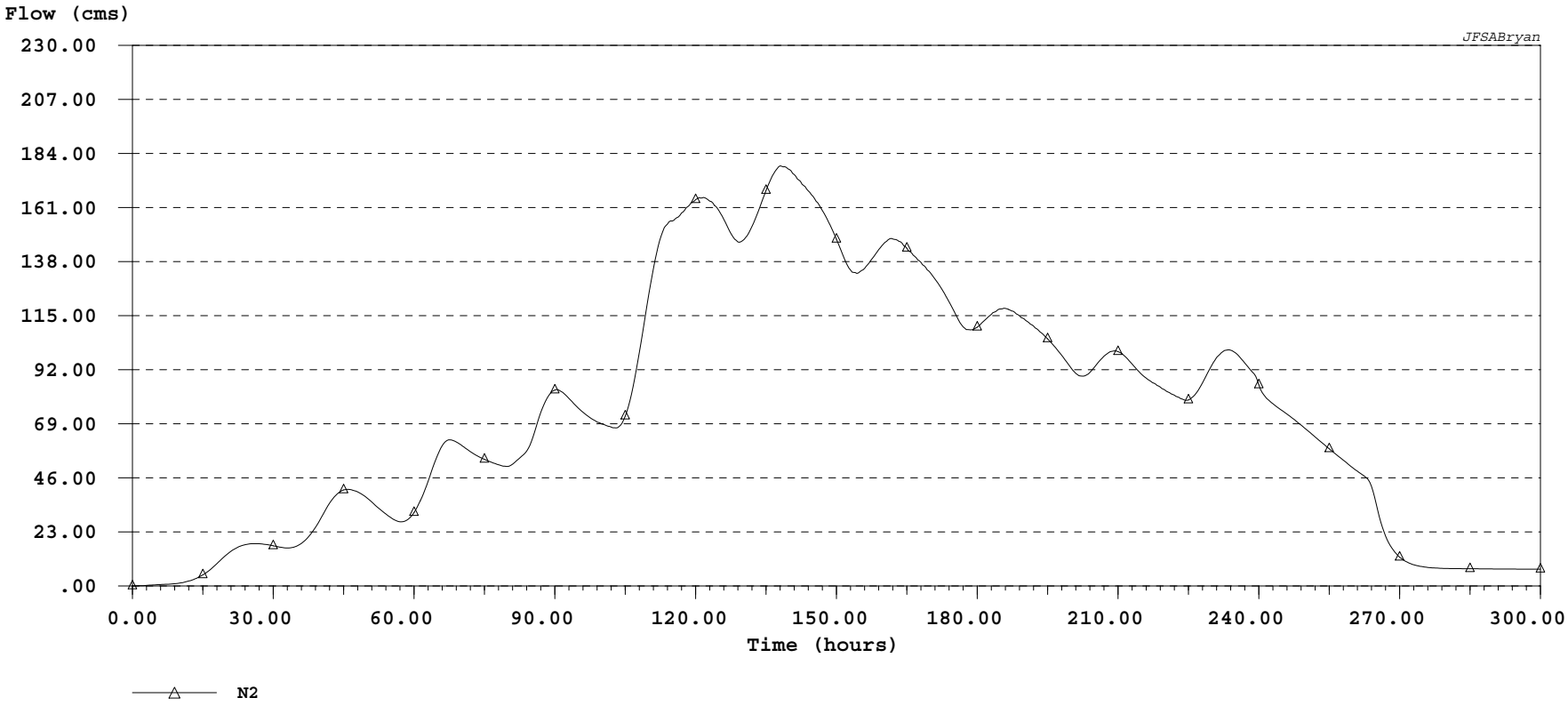
TIME hrs	FLOW cms	TIME hrs	FLOW cms
611.33	4.439	655.00	4.125
611.67	4.436	655.33	4.124
612.00	4.433	655.67	4.120
612.33	4.428	656.00	4.117
612.67	4.424	656.33	4.116
613.00	4.422	656.67	4.115
613.33	4.420	657.00	4.114
613.67	4.418	657.33	4.113
614.00	4.416	657.67	4.111
614.33	4.414	658.00	4.110
614.67	4.412	658.33	4.108
615.00	4.410	658.67	4.105
615.33	4.408	659.00	4.102
615.67	4.406	659.33	4.098
616.00	4.404	659.67	4.095
616.33	4.402	660.00	4.091
616.67	4.400	660.33	4.088
617.00	4.398	660.67	4.086
617.33	4.396	661.00	4.084
617.67	4.394	661.33	4.082
618.00	4.392	661.67	4.078
618.33	4.389	662.00	4.075
618.67	4.387	662.33	4.074
619.00	4.382	662.67	4.073
619.33	4.378	663.00	4.071
619.67	4.375	663.33	4.070
620.00	4.373	663.67	4.069
620.33	4.371	664.00	4.068
620.67	4.369	664.33	4.066
621.00	4.367	664.67	4.065
621.33	4.365	665.00	4.063
621.67	4.363	665.33	4.061
622.00	4.361	665.67	4.059
622.33	4.359	666.00	4.056
622.67	4.357	666.33	4.053
623.00	4.355	666.67	4.049
623.33	4.353	667.00	4.046
623.67	4.351	667.33	4.043
624.00	4.349	667.67	4.041
624.33	4.347	668.00	4.037
624.67	4.345	668.33	4.033
625.00	4.343	668.67	4.032
625.33	4.341	669.00	4.031
625.67	4.336	669.33	4.029
626.00	4.332	669.67	4.028
626.33	4.330	670.00	4.027
626.67	4.328	670.33	4.026
627.00	4.325	670.67	4.024
627.33	4.323	671.00	4.023
627.67	4.321	671.33	4.022
628.00	4.319	671.67	4.020
628.33	4.317	672.00	4.019
628.67	4.315	672.33	4.017
629.00	4.313	672.67	4.014
629.33	4.311	673.00	4.011
629.67	4.309	673.33	4.008
630.00	4.307	673.67	4.005
630.33	4.305	674.00	4.001
630.67	4.303	674.33	3.998
631.00	4.301	674.67	3.994
631.33	4.299	675.00	3.991
631.67	4.297	675.33	3.990
632.00	4.293	675.67	3.988
632.33	4.289	676.00	3.987
632.67	4.287	676.33	3.985
633.00	4.285	676.67	3.984
633.33	4.283	677.00	3.983
633.67	4.280	677.33	3.981
634.00	4.278	677.67	3.980
634.33	4.276	678.00	3.979
634.67	4.273	678.33	3.977
635.00	4.271	678.67	3.976
635.33	4.269	679.00	3.974
635.67	4.267	679.33	3.972
636.00	4.265	679.67	3.970
636.33	4.263	680.00	3.967
636.67	4.261	680.33	3.964
637.00	4.259	680.67	3.961
637.33	4.257	681.00	3.957
637.67	4.255	681.33	3.953
638.00	4.253	681.67	3.949
638.33	4.249	682.00	3.948
638.67	4.246	682.33	3.946
639.00	4.244	682.67	3.944
639.33	4.243	683.00	3.943
639.67	4.240	683.33	3.942
640.00	4.238	683.67	3.940
640.33	4.236	684.00	3.939
640.67	4.233	684.33	3.937
641.00	4.231	684.67	3.936
641.33	4.228	685.00	3.935
641.67	4.226	685.33	3.933
642.00	4.224	685.67	3.932
642.33	4.222	686.00	3.930
642.67	4.220	686.33	3.928
643.00	4.218	686.67	3.926
643.33	4.215	687.00	3.923
643.67	4.213	687.33	3.920
644.00	4.211	687.67	3.917
644.33	4.209	688.00	3.912
644.67	4.205	688.33	3.908
645.00	4.201	688.67	3.906
645.33	4.199	689.00	3.904
645.67	4.197	689.33	3.903
646.00	4.195	689.67	3.901
646.33	4.192	690.00	3.900
646.67	4.189	690.33	3.898
647.00	4.186	690.67	3.897
647.33	4.184	691.00	3.895
647.67	4.181	691.33	3.894
648.00	4.179	691.67	3.893
648.33	4.177	692.00	3.891
648.67	4.174	692.33	3.890
649.00	4.172	692.67	3.888
649.33	4.170	693.00	3.887
649.67	4.168	693.33	3.885
650.00	4.166	693.67	3.882
650.33	4.162	694.00	3.880
650.67	4.159	694.33	3.877
651.00	4.157	694.67	3.872
651.33	4.155	695.00	3.868
651.67	4.152	695.33	3.865
652.00	4.149	695.67	3.864
652.33	4.146	696.00	3.862
652.67	4.143	696.33	3.860
653.00	4.139	696.67	3.858
653.33	4.136	697.00	3.857
653.67	4.134	697.33	3.855
654.00	4.131	697.67	3.854
654.33	4.129	698.00	3.852
654.67	4.127	698.33	3.851

TIME hrs	FLOW cms	TIME hrs	FLOW cms
698.67	3.850	742.33	3.595
699.00	3.848	742.67	3.593
699.33	3.847	743.00	3.590
699.67	3.845	743.33	3.588
700.00	3.844	743.67	3.585
700.33	3.842	744.00	3.583
700.67	3.839	744.33	3.580
701.00	3.837	744.67	3.578
701.33	3.832	745.00	3.576
701.67	3.828	745.33	3.574
702.00	3.825	745.67	3.573
702.33	3.823	746.00	3.571
702.67	3.821	746.33	3.569
703.00	3.819	746.67	3.568
703.33	3.818	747.00	3.565
703.67	3.816	747.33	3.562
704.00	3.814	747.67	3.561
704.33	3.813	748.00	3.559
704.67	3.811	748.33	3.557
705.00	3.810	748.67	3.555
705.33	3.808	749.00	3.553
705.67	3.807	749.33	3.550
706.00	3.806	749.67	3.547
706.33	3.804	750.00	3.544
706.67	3.803	750.33	3.541
707.00	3.801	750.67	3.538
707.33	3.799	751.00	3.535
707.67	3.797	751.33	3.532
708.00	3.793	751.67	3.528
708.33	3.789	752.00	3.525
708.67	3.786	752.33	3.522
709.00	3.784	752.67	3.518
709.33	3.781	753.00	3.515
709.67	3.779	753.33	3.511
710.00	3.777	753.67	3.507
710.33	3.776	754.00	3.502
710.67	3.774	754.33	3.498
711.00	3.772	754.67	3.494
711.33	3.771	755.00	3.489
711.67	3.769	755.33	3.484
712.00	3.768	755.67	3.480
712.33	3.766	756.00	3.475
712.67	3.765	756.33	3.471
713.00	3.764	756.67	3.466
713.33	3.762	757.00	3.461
713.67	3.761	757.33	3.454
714.00	3.759	757.67	3.448
714.33	3.757	758.00	3.443
714.67	3.753	758.33	3.438
715.00	3.750	758.67	3.433
715.33	3.747	759.00	3.428
715.67	3.745	759.33	3.422
716.00	3.742	759.67	3.416
716.33	3.740	760.00	3.409
716.67	3.738	760.33	3.404
717.00	3.736	760.67	3.399
717.33	3.734	761.00	3.393
717.67	3.732	761.33	3.387
718.00	3.731	761.67	3.381
718.33	3.729	762.00	3.374
718.67	3.728	762.33	3.368
719.00	3.726	762.67	3.363
719.33	3.725	763.00	3.357
719.67	3.724	763.33	3.351
720.00	3.722	763.67	3.344
720.33	3.721	764.00	3.337
720.67	3.719	764.33	3.331
721.00	3.718	764.67	3.325
721.33	3.715	765.00	3.319
721.67	3.711	765.33	3.312
722.00	3.709	765.67	3.305
722.33	3.707	766.00	3.297
722.67	3.704	766.33	3.291
723.00	3.702	766.67	3.285
723.33	3.700	767.00	3.279
723.67	3.698	767.33	3.271
724.00	3.696	767.67	3.264
724.33	3.694	768.00	3.258
724.67	3.692	768.33	3.251
725.00	3.691	768.67	3.245
725.33	3.689	769.00	3.238
725.67	3.688	769.33	3.230
726.00	3.686	769.67	3.224
726.33	3.685	770.00	3.217
726.67	3.684	770.33	3.211
727.00	3.682	770.67	3.203
727.33	3.681	771.00	3.196
727.67	3.679	771.33	3.190
728.00	3.676	771.67	3.183
728.33	3.674	772.00	3.177
728.67	3.672	772.33	3.169
729.00	3.670	772.67	3.162
729.33	3.667	773.00	3.156
729.67	3.665	773.33	3.149
730.00	3.662	773.67	3.143
730.33	3.660	774.00	3.135
730.67	3.658	774.33	3.128
731.00	3.656	774.67	3.122
731.33	3.655	775.00	3.115
731.67	3.653	775.33	3.109
732.00	3.651	775.67	3.101
732.33	3.650	776.00	3.094
732.67	3.648	776.33	3.088
733.00	3.647	776.67	3.082
733.33	3.645	777.00	3.075
733.67	3.644	777.33	3.068
734.00	3.642	777.67	3.061
734.33	3.640	778.00	3.055
734.67	3.637	778.33	3.048
735.00	3.636	778.67	3.042
735.33	3.634	779.00	3.035
735.67	3.632	779.33	3.028
736.00	3.630	779.67	3.021
736.33	3.628	780.00	3.015
736.67	3.625	780.33	3.009
737.00	3.623	780.67	3.002
737.33	3.620	781.00	2.995
737.67	3.618	781.33	2.989
738.00	3.616	781.67	2.983
738.33	3.615	782.00	2.976
738.67	3.613	782.33	2.969
739.00	3.611	782.67	2.962
739.33	3.610	783.00	2.956
739.67	3.608	783.33	2.950
740.00	3.606	783.67	2.944
740.33	3.605	784.00	2.937
740.67	3.602	784.33	2.930
741.00	3.600	784.67	2.924
741.33	3.599	785.00	2.918
741.67	3.597	785.33	2.912
742.00	3.596	785.67	2.905

TIME hrs	FLOW cms	TIME hrs	FLOW cms
786.00	2.899	829.67	2.197
786.33	2.893	830.00	2.191
786.67	2.887	830.33	2.186
787.00	2.881	830.67	2.179
787.33	2.874	831.00	2.172
787.67	2.867	831.33	2.165
788.00	2.861	831.67	2.158
788.33	2.855	832.00	2.150
788.67	2.850	832.33	2.143
789.00	2.843	832.67	2.135
789.33	2.836	833.00	2.127
789.67	2.830	833.33	2.119
790.00	2.825	833.67	2.111
790.33	2.819	834.00	2.102
790.67	2.812	834.33	2.093
791.00	2.806	834.67	2.083
791.33	2.800	835.00	2.073
791.67	2.794	835.33	2.063
792.00	2.788	835.67	2.051
792.33	2.782	836.00	2.040
792.67	2.776	836.33	2.028
793.00	2.770	836.67	2.015
793.33	2.764	837.00	2.001
793.67	2.758	837.33	1.987
794.00	2.752	837.67	1.973
794.33	2.746	838.00	1.959
794.67	2.740	838.33	1.944
795.00	2.735	838.67	1.929
795.33	2.729	839.00	1.912
795.67	2.723	839.33	1.895
796.00	2.716	839.67	1.878
796.33	2.711	840.00	1.859
796.67	2.705	840.33	1.840
797.00	2.700	840.67	1.821
797.33	2.693	841.00	1.801
797.67	2.687	841.33	1.781
798.00	2.682	841.67	1.759
798.33	2.676	842.00	1.738
798.67	2.671	842.33	1.715
799.00	2.665	842.67	1.693
799.33	2.659	843.00	1.670
799.67	2.653	843.33	1.647
800.00	2.648	843.67	1.623
800.33	2.643	844.00	1.599
800.67	2.636	844.33	1.575
801.00	2.630	844.67	1.551
801.33	2.625	845.00	1.527
801.67	2.620	845.33	1.502
802.00	2.614	845.67	1.478
802.33	2.608	846.00	1.453
802.67	2.603	846.33	1.429
803.00	2.597	846.67	1.404
803.33	2.592	847.00	1.379
803.67	2.587	847.33	1.355
804.00	2.581	847.67	1.330
804.33	2.575	848.00	1.306
804.67	2.570	848.33	1.281
805.00	2.565	848.67	1.257
805.33	2.559	849.00	1.232
805.67	2.554	849.33	1.208
806.00	2.548	849.67	1.183
806.33	2.543	850.00	1.159
806.67	2.538	850.33	1.134
807.00	2.532	850.67	1.110
807.33	2.527	851.00	1.086
807.67	2.521	851.33	1.061
808.00	2.516	851.67	1.037
808.33	2.511	852.00	1.013
808.67	2.506	852.33	0.989
809.00	2.500	852.67	0.965
809.33	2.494	853.00	0.942
809.67	2.490	853.33	0.918
810.00	2.484	853.67	0.895
810.33	2.479	854.00	0.872
810.67	2.474	854.33	0.850
811.00	2.468	854.67	0.827
811.33	2.463	855.00	0.805
811.67	2.458	855.33	0.783
812.00	2.453	855.67	0.762
812.33	2.448	856.00	0.741
812.67	2.442	856.33	0.720
813.00	2.438	856.67	0.699
813.33	2.433	857.00	0.679
813.67	2.428	857.33	0.659
814.00	2.422	857.67	0.640
814.33	2.417	858.00	0.621
814.67	2.412	858.33	0.602
815.00	2.407	858.67	0.584
815.33	2.403	859.00	0.566
815.67	2.397	859.33	0.549
816.00	2.392	859.67	0.532
816.33	2.387	860.00	0.515
816.67	2.383	860.33	0.499
817.00	2.378	860.67	0.483
817.33	2.373	861.00	0.467
817.67	2.367	861.33	0.452
818.00	2.363	861.67	0.437
818.33	2.358	862.00	0.423
818.67	2.353	862.33	0.409
819.00	2.348	862.67	0.395
819.33	2.343	863.00	0.382
819.67	2.339	863.33	0.369
820.00	2.334	863.67	0.356
820.33	2.329	864.00	0.344
820.67	2.324	864.33	0.332
821.00	2.319	864.67	0.321
821.33	2.315	865.00	0.309
821.67	2.310	865.33	0.299
822.00	2.306	865.67	0.288
822.33	2.301	866.00	0.278
822.67	2.296	866.33	0.268
823.00	2.291	866.67	0.258
823.33	2.287	867.00	0.249
823.67	2.282	867.33	0.240
824.00	2.277	867.67	0.231
824.33	2.272	868.00	0.223
824.67	2.268	868.33	0.215
825.00	2.264	868.67	0.207
825.33	2.259	869.00	0.199
825.67	2.254	869.33	0.192
826.00	2.249	869.67	0.185
826.33	2.245	870.00	0.178
826.67	2.241	870.33	0.171
827.00	2.236	870.67	0.165
827.33	2.231	871.00	0.158
827.67	2.226	871.33	0.152
828.00	2.222	871.67	0.147
828.33	2.217	872.00	0.141
828.67	2.212	872.33	0.136
829.00	2.207	872.67	0.130
829.33	2.202	873.00	0.125

TIME hrs	FLOW cms	TIME hrs	FLOW cms
873.33	0.121	917.00	0.000
873.67	0.116	917.33	0.000
874.00	0.111	917.67	0.000
874.33	0.107	918.00	0.000
874.67	0.103	918.33	0.000
875.00	0.099	918.67	0.000
875.33	0.095	919.00	0.000
875.67	0.091	919.33	0.000
876.00	0.088	919.67	0.000
876.33	0.084	920.00	0.000
876.67	0.081	920.33	0.000
877.00	0.078	920.67	0.000
877.33	0.074	921.00	0.000
877.67	0.072	921.33	0.000
878.00	0.069	921.67	0.000
878.33	0.066	922.00	0.000
878.67	0.063	922.33	0.000
879.00	0.061	922.67	0.000
879.33	0.058	923.00	0.000
879.67	0.056	923.33	0.000
880.00	0.054	923.67	0.000
880.33	0.051	924.00	0.000
880.67	0.049	924.33	0.000
881.00	0.047	924.67	0.000
881.33	0.045	925.00	0.000
881.67	0.044	925.33	0.000
882.00	0.042	925.67	0.000
882.33	0.040	926.00	0.000
882.67	0.038	926.33	0.000
883.00	0.037	926.67	0.000
883.33	0.035	927.00	0.000
883.67	0.034	927.33	0.000
884.00	0.032	927.67	0.000
884.33	0.031	928.00	0.000
884.67	0.030	928.33	0.000
885.00	0.029	928.67	0.000
885.33	0.027	929.00	0.000
885.67	0.026	929.33	0.000
886.00	0.025	929.67	0.000
886.33	0.024	930.00	0.000
886.67	0.023	930.33	0.000
887.00	0.022	930.67	0.000
887.33	0.021	931.00	0.000
887.67	0.020	931.33	0.000
888.00	0.019	931.67	0.000
888.33	0.019	932.00	0.000
888.67	0.018	932.33	0.000
889.00	0.017	932.67	0.000
889.33	0.016	933.00	0.000
889.67	0.016	933.33	0.000
890.00	0.015	933.67	0.000
890.33	0.014	934.00	0.000
890.67	0.014	934.33	0.000
891.00	0.013	934.67	0.000
891.33	0.013	935.00	0.000
891.67	0.012	935.33	0.000
892.00	0.012	935.67	0.000
892.33	0.011	936.00	0.000
892.67	0.011	936.33	0.000
893.00	0.010	936.67	0.000
893.33	0.010	937.00	0.000
893.67	0.009	937.33	0.000
894.00	0.009	937.67	0.000
894.33	0.008	938.00	0.000
894.67	0.008	938.33	0.000
895.00	0.008	938.67	0.000
895.33	0.007	939.00	0.000
895.67	0.007	939.33	0.000
896.00	0.007	939.67	0.000
896.33	0.007	940.00	0.000
896.67	0.006	940.33	0.000
897.00	0.006	940.67	0.000
897.33	0.006	941.00	0.000
897.67	0.005	941.33	0.000
898.00	0.005	941.67	0.000
898.33	0.005	942.00	0.000
898.67	0.005	942.33	0.000
899.00	0.005	942.67	0.000
899.33	0.004	943.00	0.000
899.67	0.004	943.33	0.000
900.00	0.004	943.67	0.000
900.33	0.004	944.00	0.000
900.67	0.004	944.33	0.000
901.00	0.004	944.67	0.000
901.33	0.003	945.00	0.000
901.67	0.003	945.33	0.000
902.00	0.003	945.67	0.000
902.33	0.003	946.00	0.000
902.67	0.003	946.33	0.000
903.00	0.003	946.67	0.000
903.33	0.003	947.00	0.000
903.67	0.002	947.33	0.000
904.00	0.002	947.67	0.000
904.33	0.002	948.00	0.000
904.67	0.002	948.33	0.000
905.00	0.002	948.67	0.000
905.33	0.002	949.00	0.000
905.67	0.002	949.33	0.000
906.00	0.002	949.67	0.000
906.33	0.002	950.00	0.000
906.67	0.002	950.33	0.000
907.00	0.002	950.67	0.000
907.33	0.002	951.00	0.000
907.67	0.001	951.33	0.000
908.00	0.001	951.67	0.000
908.33	0.001	952.00	0.000
908.67	0.001	952.33	0.000
909.00	0.001	952.67	0.000
909.33	0.001	953.00	0.000
909.67	0.001	953.33	0.000
910.00	0.001	953.67	0.000
910.33	0.001	954.00	0.000
910.67	0.001	954.33	0.000
911.00	0.001	954.67	0.000
911.33	0.001	955.00	0.000
911.67	0.001	955.33	0.000
912.00	0.001	955.67	0.000
912.33	0.001	956.00	0.000
912.67	0.001	956.33	0.000
913.00	0.001	956.67	0.000
913.33	0.001	957.00	0.000
913.67	0.001	957.33	0.000
914.00	0.001	957.67	0.000
914.33	0.001	958.00	0.000
914.67	0.001	958.33	0.000
915.00	0.001	958.67	0.000
915.33	0.001	959.00	0.000
915.67	0.001	959.33	0.000
916.00	0.000	959.67	0.000
916.33	0.000	960.00	0.000
916.67	0.000	960.33	0.000

N2 (JR SPRING)



Hydrograph Statistics:

Legend	Filename & Comment	Time Step (min)	Drainage Area (ha)	Peak Flow (cms)	Time to Peak (hrs)	Runoff Volume (mm)	Runoff Volume (cu.m)	Duration of flow (hrs)	Average flow (cms)
—△—	H-N2.100 : N2	20.00	48262.00	178.757	138.000	168.01	8.108E+07	300.000	75.079

Hydrograph Table:

Hydrograph Filename : Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\JRSPRI~1\H-N2.100
Comment in file : N2

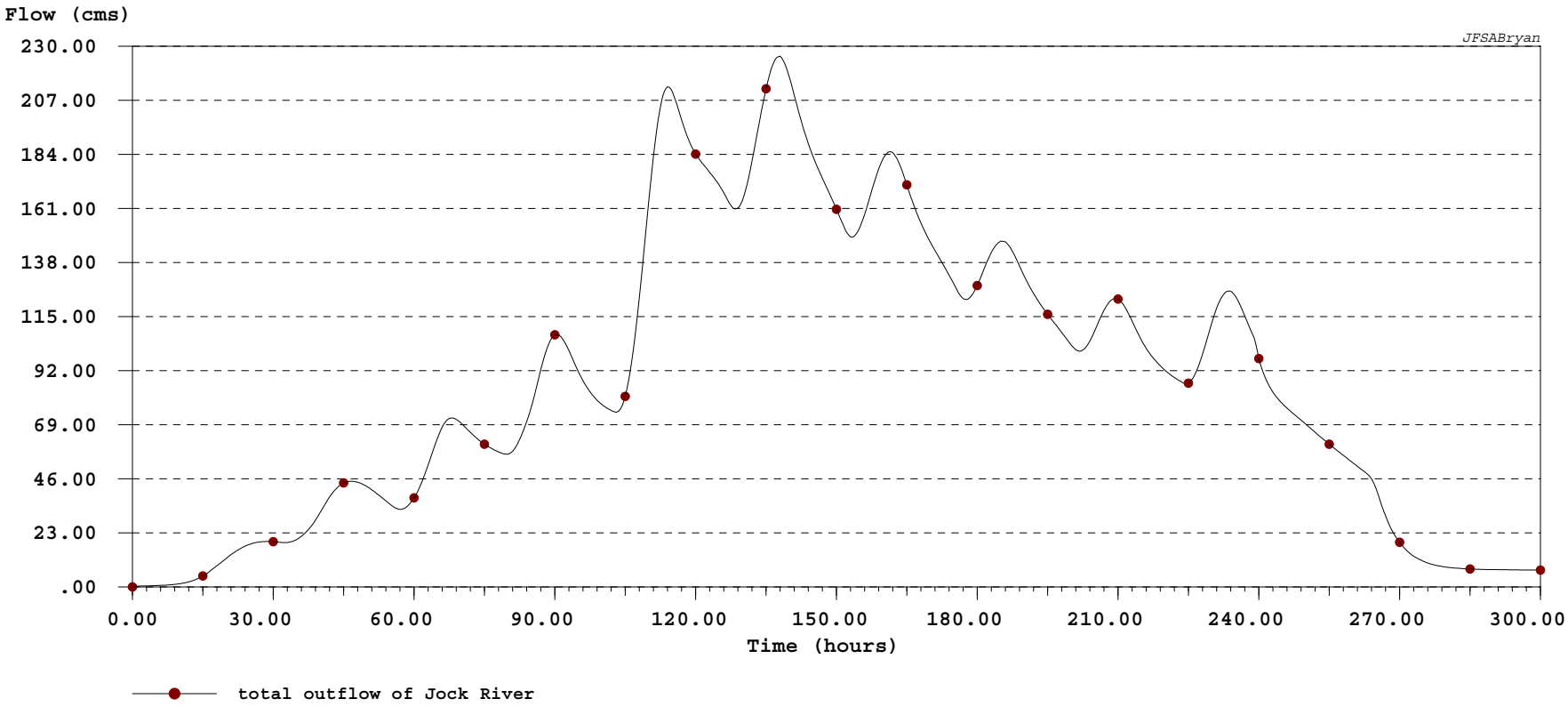
TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
0.00	0.000	43.67	39.221	87.33	75.554	131.00	149.073	174.67	118.393	218.33	85.313
0.33	0.005	44.00	39.756	87.67	77.134	131.33	150.261	175.00	117.123	218.67	85.025
0.67	0.020	44.33	40.202	88.00	78.587	131.67	151.592	175.33	115.798	219.00	84.627
1.00	0.046	44.67	40.590	88.33	79.859	132.00	152.984	175.67	114.491	219.33	84.023
1.33	0.076	45.00	40.832	88.67	80.930	132.33	154.358	176.00	113.160	219.67	83.738
1.67	0.106	45.33	40.977	89.00	81.854	132.67	155.944	176.33	111.965	220.00	83.374
2.00	0.138	45.67	41.098	89.33	82.645	133.00	157.616	176.67	111.076	220.33	82.812
2.33	0.174	46.00	41.110	89.67	83.076	133.33	159.319	177.00	110.233	220.67	82.537
2.67	0.212	46.33	41.043	90.00	83.365	133.67	161.065	177.33	109.672	221.00	82.198
3.00	0.252	46.67	40.916	90.33	83.585	134.00	162.934	177.67	109.122	221.33	81.700
3.33	0.292	47.00	40.726	90.67	83.478	134.33	164.708	178.00	109.028	221.67	81.466
3.67	0.332	47.33	40.493	91.00	83.193	134.67	166.429	178.33	108.993	222.00	81.155
4.00	0.372	47.67	40.280	91.33	82.770	135.00	168.274	178.67	108.928	222.33	80.679
4.33	0.412	48.00	39.995	91.67	82.351	135.33	169.964	179.00	109.068	222.67	80.457
4.67	0.452	48.33	39.659	92.00	81.752	135.67	171.500	179.33	109.324	223.00	80.184
5.00	0.491	48.67	39.287	92.33	81.148	136.00	173.025	179.67	109.746	223.33	79.743
5.33	0.530	49.00	38.887	92.67	80.508	136.33	174.438	180.00	110.099	223.67	79.517
5.67	0.569	49.33	38.459	93.00	79.819	136.67	175.505	180.33	110.620	224.00	79.262
6.00	0.608	49.67	37.950	93.33	79.111	137.00	176.646	180.67	111.273	224.33	78.990
6.33	0.645	50.00	37.424	93.67	78.419	137.33	177.454	181.00	111.974	224.67	78.991
6.67	0.677	50.33	36.873	94.00	77.698	137.67	178.295	181.33	112.591	225.00	79.148
7.00	0.703	50.67	36.310	94.33	77.000	138.00	178.757	181.67	113.165	225.33	79.492
7.33	0.730	51.00	35.715	94.67	76.336	138.33	178.532	182.00	113.802	225.67	80.051
7.67	0.759	51.33	35.086	95.00	75.674	138.67	178.320	182.33	114.447	226.00	80.549
8.00	0.793	51.67	34.465	95.33	75.050	139.00	178.419	182.67	115.019	226.33	81.217
8.33	0.835	52.00	33.870	95.67	74.451	139.33	178.043	183.00	115.541	226.67	82.050
8.67	0.886	52.33	33.293	96.00	73.868	139.67	177.481	183.33	116.242	227.00	82.963
9.00	0.946	52.67	32.733	96.33	73.316	140.00	177.206	183.67	116.492	227.33	84.077
9.33	1.018	53.00	32.187	96.67	72.820	140.33	176.625	184.00	116.825	227.67	85.219
9.67	1.104	53.33	31.654	97.00	72.310	140.67	175.522	184.33	117.433	228.00	86.443
10.00	1.202	53.67	31.128	97.33	71.812	141.00	174.999	184.67	117.775	228.33	87.692
10.33	1.312	54.00	30.610	97.67	71.371	141.33	174.293	185.00	117.804	228.67	88.973
10.67	1.437	54.33	30.104	98.00	70.963	141.67	173.141	185.33	117.921	229.00	90.292
11.00	1.580	54.67	29.614	98.33	70.551	142.00	172.726	185.67	118.131	229.33	91.576
11.33	1.743	55.00	29.145	98.67	70.186	142.33	172.142	186.00	118.101	229.67	92.803
11.67	1.919	55.33	28.706	99.00	69.781	142.67	170.942	186.33	117.940	230.00	94.014
12.00	2.096	55.67	28.304	99.33	69.578	143.00	170.401	186.67	117.687	230.33	95.121
12.33	2.284	56.00	27.935	99.67	69.296	143.33	169.866	187.00	117.385	230.67	96.138
12.67	2.496	56.33	27.642	100.00	68.902	143.67	168.823	187.33	117.035	231.00	97.205
13.00	2.737	56.67	27.432	100.33	68.733	144.00	168.128	187.67	116.843	231.33	97.885
13.33	3.003	57.00	27.309	100.67	68.538	144.33	167.386	188.00	116.428	231.67	98.499
13.67	3.301	57.33	27.294	101.00	68.203	144.67	166.429	188.33	115.755	232.00	99.192
14.00	3.634	57.67	27.382	101.33	68.016	145.00	165.780	188.67	115.440	232.33	99.715
14.33	4.001	58.00	27.563	101.67	67.838	145.33	164.857	189.00	114.963	232.67	100.193
14.67	4.367	58.33	27.848	102.00	67.563	145.67	163.685	189.33	114.249	233.00	100.346
15.00	4.728	58.67	28.264	102.33	67.348	146.00	163.092	189.67	113.983	233.33	100.430
15.33	5.120	59.00	28.804	102.67	67.288	146.33	162.051	190.00	113.621	233.67	100.449
15.67	5.560	59.33	29.469	103.00	67.211	146.67	160.868	190.33	112.932	234.00	100.320
16.00	6.052	59.67	30.274	103.33	67.295	147.00	159.750	190.67	112.521	234.33	100.071
16.33	6.579	60.00	31.235	103.67	67.810	147.33	158.629	191.00	112.013	234.67	99.600
16.67	7.106	60.33	32.330	104.00	68.391	147.67	157.428	191.33	111.370	235.00	99.221
17.00	7.654	60.67	33.555	104.33	69.309	148.00	156.163	191.67	111.065	235.33	98.668
17.33	8.266	61.00	34.900	104.67	70.716	148.33	154.791	192.00	110.566	235.67	97.979
17.67	8.902	61.33	36.272	105.00	72.300	148.67	153.479	192.33	109.822	236.00	97.203
18.00	9.535	61.67	37.694	105.33	74.129	149.00	152.057	192.67	109.439	236.33	96.448
18.33	10.175	62.00	39.260	105.67	76.293	149.33	150.610	193.00	108.909	236.67	95.664
18.67	10.816	62.33	40.932	106.00	78.791	149.67	149.102	193.33	108.119	237.00	94.860
19.00	11.455	62.67	42.678	106.33	81.587	150.00	147.554	193.67	107.695	237.33	94.069
19.33	12.080	63.00	44.534	106.67	84.713	150.33	145.921	194.00	107.125	237.67	93.276
19.67	12.653	63.33	46.473	107.00	88.127	150.67	144.283	194.33	106.448	238.00	92.443
20.00	13.197	63.67	48.446	107.33	91.759	151.00	142.642	194.67	105.772	238.33	91.662
20.33	13.747	64.00	50.420	107.67	95.522	151.33	140.978	195.00	105.112	238.67	90.949
20.67	14.273	64.33	52.248	108.00	99.315	151.67	139.313	195.33	104.426	239.00	90.217
21.00	14.759	64.67	53.924	108.33	103.183	152.00	137.742	195.67	103.712	239.33	89.240
21.33	15.211	65.00	55.566	108.67	107.224	152.33	136.431	196.00	102.957	239.67	87.550
21.67	15.631	65.33	57.116	109.00	111.438	152.67	135.249	196.33	102.201	240.00	85.547
22.00	16.014	65.67	58.497	109.33	115.670	153.00	134.403	196.67	101.420	240.33	83.746
22.33	16.361	66.00	59.689	109.67	119.833	153.33	133.514	197.00	100.619	240.67	82.472
22.67	16.671	66.33	60.658	110.00	123.890	153.67	133.419	197.33	99.791	241.00	81.452
23.00	16.942	66.67	61.377	110.33	127.693	154.00	133.341	197.67	98.963	241.33	80.598
23.33	17.180	67.00	61.912	110.67	131.346	154.33	132.999	198.00	98.109	241.67	79.806
23.67	17.386	67.33	62.145	111.00	134.990	154.67	133.150	198.33	97.229	242.00	79.215
24.00	17.572	67.67	62.147	111.33	138.403	155.00	133.709	198.67	96.306	242.33	78.620
24.33	17.706	68.00	62.075	111.67	141.487	155.33	134.211	199.00	95.416	242.67	78.045
24.67	17.810	68.33	61.871	112.00	144.400	155.67	134.460	199.33	94.523	243.00	77.510
25.00	17.898	68.67	61.638	112.33	146.955	156.00	135.137	199.67	93.617	243.33	76.971
25.33	17.956	69.00	61.283	112.67	149.055	156.33	135.974	200.00	92.693	243.67	76.462
25.67	18.004	69.33	60.890	113.00	150.873	156.67	136.748	200.33	91.849	244.00	75.965
26.00	18.024	69.67	60.456	113.33	152.548	157.00	137.555	200.67	91.140	244.33	75.481
26.33	18.021	70.00	59.999	113.67	153.330	157.33	138.538	201.00	90.436	244.67	75.008
26.67	17.999	70.33	59.525	114.00	153.981	157.67	139.415	201.33	89.933	245.00	74.554
27.00	17.959	70.67	59.057	114.33	154.972	158.00	140.255	201.67	89.464	245.33	74.087
27.33	17.904	71.00	58.569	114.67	155.326	158.33	141.206	202.00	89.344	245.67	73.611
27.67	17.836	71.33	58.084	115.00	155.233	158.67	142.147	202.33	89.288	246.00	73.126
28.00	17.756	71.67	57.615	115.33	155.531	159.00	143.070	202.67	89.264	246.33	72.616
28.33	17.684	72.00	57.157	115.67	156.229	159.33	143.908	203.00	89.474	246.67	72.120
28.67	17.593	72.33	56.720	116.00	156.700	159.67	144.692	203.33	89.832	247.00	71.622
29.00	17.482	72.67	56.298	116.33	157.018	160.00	145.475	203.67	90.198	247.33	71.117
29.33	17.360	73.00	55.893	116.67	157.697	160.33	146.164	204.00	90.849	247.67	70.597
29.67	17.235	73.33	55.502	117.00	158.664	160.67	146.607	204.33	91.586	248.00	70.062
30.00	17.101	73.67	55.143	117.33	159.131	161.00	147.293	204.67	92.360	248.33	69.515
30.33	16.964	74.00	54.794	117.67	159.896	161.33	147.703	205.00	93.169	248.67	68.971
30.67	16.825	74.33	54.465	118.00	160.966	161.67	147.868	205.33	94.007	249.00	68.420
31.00	16.686	74.67	54.156	118.33	161.341	162.00	147.648	205.67	94.808	249.33	67.871
31.33	16.553	75.00	53.861	118.67	161.957	162.33	147.425	206.00	95.622	249.67	67.320
31.67	16.431	75.33	53.566	119.00	162.898	162.67	147.380	206.33	96.395	250.00	66.767
32.00	16.321	75.67	53.288	119.33	163.276	163.00	147.080	206.67	97.054	250.33	66.211
32.33	16.234	76.00	53.023	119.67	163.749	163.33	146.641	207.00	97.728	250.67	65.654
32.67	16.184	76.33	52.778	120.00	164.337	163.67	146.402	207.33	98.314	251.00	65.091
33.00	16.149	76.67	52.468	120.33	164.787	164.00	145.805	207.67	98.827	251.33	64.528
33.33	16.165	77.00	52.265	120.67	165.163	164.33	144.816	208.00	99.273	251.67	63.962
33.67	16.236	77.33	52.059	121.00	165.043	164.67	144.395	208.33	99.737	252.00	63.396
34.00	16.352	77.67	51.775	121.33	165.051	165.00	143.696	208.67	99.826	252.33	62.828
34.33	16.497	78.00	51.601	121.67	165.287	165.33	142.603	209.00	99.937	252.67	62.264
34.67	16.696	78.33	51.417	122.00	165.141	165.67	142.259	209.33	100.063	253.00	61.702
35.00	16.967	78.67	51.161	122.33	164.782	166.00	141.771	209.67	99.903	253.33	61.143
35.33	17.294	79.00	51.015	122.67	164.294	166.33	140.761	210.00	99.668	253.67	60.584
35.67	17.682	79.33	50.929	123.00	163.723	166.67	140.240	210.33	99.353	254.00	60.022
36.00	18.132	79.67	50.857	123.33	163.505	167.00	139.592	210.67	99.042	254.33	59.457
36.33	18.639	80.00	50.857	123.67	162.933	167.33	138.705	211.00	98.543	254.67	58.904
36.67	19.208	80.33	51.027	124.00	161.892	167.67	138.324	211.33	97.970	255.00	58.357
37.00	19.847	80.67	51.400	124.33	161.441	168.00	137.688	211.67	97.330	255.33	57.807
37.33	20.551	81.00	51.799	124.67	160.610	168.33	136.713	212.00	96.618	255.67	57.254
37.67	21.283	81.33	52.360	125.00	159.551	168.67	136.244	212.33	95.878	256.00	56.707
38.00	22.092	81.67	52.967	125.33	158.431	169.00	135.566	212.67	95.188	256.33	56.167
38.33	23.007	82.00	53.557	125.67	157.331	169.33	134.541	213.00	94.425	256.67	55.631
38.67	23.957	82.33	54.144	126.00	156.023	169.67	134.023	213.33	93.673	257.00	55.103
39.00	24.952	82.67	54.746	126.33	154.719	170.00	133.276	213.67	92.928	257.33	54.579
39.33	25.998	83.00	55.327	126.67	153.330	170.33	132.389	214.00	92.160	257.67	54.061
39.67	27.093	83.33	55.886	127.00	151.900	170.67	131.487	214.33	91.429	258.00	53.539
40.00	28.245	83.67	56.554	127.33	150.601	171.00	130.605	214.67	90.747	258.33	53.003
40.33	29.432	84.00	57.375	127.67	149.452	171.33	129.680	215.00	90.094	258.67	52.440
40.67	30.628	84.33	58.468	128.00	148.377	171.67	128.724	215.33	89.471	259.00	51.870
41.00	31.837	84.67	59.773	128.33	147.495	172.00	127.703	215.67	88.947	259.33	51.329
41.33	33.036	85.00	61.411	128.67	147.038	172.33	126.677	216.00	88.417	259.67	50.801
41.67	34.202	85.33	63.307	129.00	146.382	172.67	125.600	216.33	87.921	260.00	50.285
42.00	35.274	85.67	65.364	129.33	146.205	173.00	124.461	216.67	87.483	260.33	49.784
42.33	36.205	86.00	67.557	129.67	146.451	173.33	123.241	217.00	87.065	260.67	49.292
42.67	37.054	86.33	69.795	130.00	146.857	173.67	122.088	217.33	86.526	261.00	48.813
43.00	37.855	86.67	71.923	130.33	147.410	174.00	120.879	217.67	86.275	261.33	48.341
43.33	38.585	87.00	73.835	130.67	148.308	174.33	119.646	218.00	85.901	261.67	47.878

TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
262.00	47.421	305.67	7.068	349.33	6.577	393.00	6.124	436.67	5.700	480.33	5.358
262.33	46.959	306.00	7.066	349.67	6.574	393.33	6.120	437.00	5.697	480.67	5.359
262.67	46.451	306.33	7.073	350.00	6.581	393.67	6.124	437.33	5.700	481.00	5.353
263.00	45.896	306.67	7.075	350.33	6.582	394.00	6.126	437.67	5.701	481.33	5.350
263.33	45.132	307.00	7.065	350.67	6.572	394.33	6.119	438.00	5.695	481.67	5.346
263.67	44.035	307.33	7.057	351.00	6.563	394.67	6.113	438.33	5.691	482.00	5.342
264.00	42.389	307.67	7.050	351.33	6.556	395.00	6.107	438.67	5.686	482.33	5.338
264.33	40.233	308.00	7.045	351.67	6.550	395.33	6.102	439.00	5.682	482.67	5.334
264.67	37.771	308.33	7.039	352.00	6.545	395.67	6.098	439.33	5.678	483.00	5.331
265.00	35.010	308.67	7.034	352.33	6.541	396.00	6.094	439.67	5.674	483.33	5.328
265.33	32.117	309.00	7.029	352.67	6.537	396.33	6.090	440.00	5.671	483.67	5.326
265.67	29.424	309.33	7.025	353.00	6.533	396.67	6.087	440.33	5.668	484.00	5.323
266.00	27.057	309.67	7.020	353.33	6.530	397.00	6.084	440.67	5.664	484.33	5.320
266.33	24.975	310.00	7.016	353.67	6.527	397.33	6.081	441.00	5.661	484.67	5.318
266.67	23.036	310.33	7.011	354.00	6.524	397.67	6.078	441.33	5.658	485.00	5.316
267.00	21.214	310.67	7.007	354.33	6.521	398.00	6.075	441.67	5.655	485.33	5.313
267.33	19.671	311.00	7.003	354.67	6.518	398.33	6.072	442.00	5.651	485.67	5.311
267.67	18.369	311.33	6.999	355.00	6.515	398.67	6.068	442.33	5.648	486.00	5.309
268.00	17.191	311.67	6.997	355.33	6.512	399.00	6.065	442.67	5.645	486.33	5.307
268.33	16.143	312.00	6.995	355.67	6.508	399.33	6.062	443.00	5.642	486.67	5.305
268.67	15.210	312.33	6.993	356.00	6.515	399.67	6.058	443.33	5.638	487.00	5.303
269.00	14.380	312.67	6.999	356.33	6.518	400.00	6.062	443.67	5.642	487.33	5.300
269.33	13.599	313.00	7.002	356.67	6.510	400.33	6.063	444.00	5.643	487.67	5.298
269.67	12.874	313.33	6.991	357.00	6.503	400.67	6.056	444.33	5.636	488.00	5.302
270.00	12.263	313.67	6.984	357.33	6.495	401.00	6.050	444.67	5.632	488.33	5.303
270.33	11.733	314.00	6.977	357.67	6.489	401.33	6.044	445.00	5.628	488.67	5.297
270.67	11.249	314.33	6.972	358.00	6.483	401.67	6.039	445.33	5.623	489.00	5.294
271.00	10.814	314.67	6.967	358.33	6.478	402.00	6.035	445.67	5.620	489.33	5.290
271.33	10.423	315.00	6.962	358.67	6.474	402.33	6.031	446.00	5.616	489.67	5.286
271.67	10.072	315.33	6.958	359.00	6.470	402.67	6.027	446.33	5.613	490.00	5.283
272.00	9.759	315.67	6.953	359.33	6.466	403.00	6.024	446.67	5.610	490.33	5.279
272.33	9.480	316.00	6.949	359.67	6.462	403.33	6.021	447.00	5.607	490.67	5.276
272.67	9.237	316.33	6.944	360.00	6.459	403.67	6.018	447.33	5.605	491.00	5.273
273.00	9.022	316.67	6.940	360.33	6.456	404.00	6.015	447.67	5.602	491.33	5.270
273.33	8.832	317.00	6.935	360.67	6.453	404.33	6.012	448.00	5.599	491.67	5.267
273.67	8.662	317.33	6.931	361.00	6.450	404.67	6.009	448.33	5.596	492.00	5.265
274.00	8.512	317.67	6.927	361.33	6.447	405.00	6.006	448.67	5.593	492.33	5.262
274.33	8.378	318.00	6.924	361.67	6.444	405.33	6.003	449.00	5.590	492.67	5.260
274.67	8.259	318.33	6.923	362.00	6.449	405.67	6.000	449.33	5.587	493.00	5.258
275.00	8.153	318.67	6.920	362.33	6.452	406.00	5.997	449.67	5.584	493.33	5.256
275.33	8.058	319.00	6.927	362.67	6.445	406.33	6.000	450.00	5.581	493.67	5.253
275.67	7.973	319.33	6.929	363.00	6.440	406.67	6.002	450.33	5.584	494.00	5.251
276.00	7.894	319.67	6.919	363.33	6.434	407.00	5.995	450.67	5.585	494.33	5.249
276.33	7.830	320.00	6.911	363.67	6.428	407.33	5.988	451.00	5.579	494.67	5.247
276.67	7.774	320.33	6.905	364.00	6.422	407.67	5.982	451.33	5.574	495.00	5.245
277.00	7.722	320.67	6.900	364.33	6.417	408.00	5.977	451.67	5.570	495.33	5.248
277.33	7.676	321.00	6.896	364.67	6.413	408.33	5.973	452.00	5.566	495.67	5.249
277.67	7.635	321.33	6.891	365.00	6.408	408.67	5.969	452.33	5.562	496.00	5.244
278.00	7.598	321.67	6.887	365.33	6.404	409.00	5.965	452.67	5.559	496.33	5.240
278.33	7.561	322.00	6.883	365.67	6.400	409.33	5.961	453.00	5.556	496.67	5.238
278.67	7.535	322.33	6.879	366.00	6.396	409.67	5.958	453.33	5.553	497.00	5.235
279.00	7.510	322.67	6.875	366.33	6.393	410.00	5.955	453.67	5.551	497.33	5.231
279.33	7.482	323.00	6.870	366.67	6.389	410.33	5.952	454.00	5.548	497.67	5.228
279.67	7.461	323.33	6.866	367.00	6.386	410.67	5.949	454.33	5.546	498.00	5.224
280.00	7.454	323.67	6.861	367.33	6.383	411.00	5.946	454.67	5.543	498.33	5.221
280.33	7.444	324.00	6.857	367.67	6.380	411.33	5.943	455.00	5.541	498.67	5.218
280.67	7.419	324.33	6.854	368.00	6.377	411.67	5.941	455.33	5.538	499.00	5.215
281.00	7.400	324.67	6.852	368.33	6.382	412.00	5.938	455.67	5.536	499.33	5.213
281.33	7.385	325.00	6.849	368.67	6.385	412.33	5.935	456.00	5.533	499.67	5.210
281.67	7.375	325.33	6.855	369.00	6.378	412.67	5.939	456.33	5.531	500.00	5.208
282.00	7.375	325.67	6.857	369.33	6.373	413.00	5.940	456.67	5.528	500.33	5.205
282.33	7.372	326.00	6.847	369.67	6.367	413.33	5.934	457.00	5.525	500.67	5.203
282.67	7.355	326.33	6.839	370.00	6.362	413.67	5.927	457.33	5.528	501.00	5.201
283.00	7.343	326.67	6.833	370.33	6.356	414.00	5.921	457.67	5.529	501.33	5.198
283.33	7.333	327.00	6.828	370.67	6.352	414.33	5.916	458.00	5.523	501.67	5.196
283.67	7.324	327.33	6.824	371.00	6.347	414.67	5.912	458.33	5.519	502.00	5.194
284.00	7.317	327.67	6.820	371.33	6.343	415.00	5.907	458.67	5.515	502.33	5.192
284.33	7.311	328.00	6.816	371.67	6.339	415.33	5.904	459.00	5.511	502.67	5.195
284.67	7.305	328.33	6.812	372.00	6.335	415.67	5.900	459.33	5.507	503.00	5.196
285.00	7.300	328.67	6.808	372.33	6.331	416.00	5.897	459.67	5.504	503.33	5.191
285.33	7.296	329.00	6.804	372.67	6.328	416.33	5.893	460.00	5.500	503.67	5.187
285.67	7.294	329.33	6.799	373.00	6.324	416.67	5.890	460.33	5.498	504.00	5.184
286.00	7.291	329.67	6.795	373.33	6.320	417.00	5.887	460.67	5.495	504.33	5.182
286.33	7.297	330.00	6.790	373.67	6.317	417.33	5.885	461.00	5.492	504.67	5.180
286.67	7.299	330.33	6.786	374.00	6.314	417.67	5.882	461.33	5.490	505.00	5.177
287.00	7.287	330.67	6.782	374.33	6.311	418.00	5.879	461.67	5.488	505.33	5.173
287.33	7.277	331.00	6.780	374.67	6.316	418.33	5.876	462.00	5.486	505.67	5.170
287.67	7.270	331.33	6.785	375.00	6.318	418.67	5.873	462.33	5.483	506.00	5.167
288.00	7.263	331.67	6.786	375.33	6.312	419.00	5.877	462.67	5.481	506.33	5.164
288.33	7.257	332.00	6.776	375.67	6.307	419.33	5.879	463.00	5.479	506.67	5.161
288.67	7.252	332.33	6.768	376.00	6.301	419.67	5.873	463.33	5.477	507.00	5.158
289.00	7.247	332.67	6.762	376.33	6.296	420.00	5.867	463.67	5.475	507.33	5.156
289.33	7.242	333.00	6.757	376.67	6.290	420.33	5.861	464.00	5.472	507.67	5.153
289.67	7.238	333.33	6.752	377.00	6.286	420.67	5.856	464.33	5.470	508.00	5.151
290.00	7.234	333.67	6.748	377.33	6.282	421.00	5.851	464.67	5.467	508.33	5.149
290.33	7.231	334.00	6.745	377.67	6.278	421.33	5.847	465.00	5.471	508.67	5.146
290.67	7.227	334.33	6.741	378.00	6.275	421.67	5.843	465.33	5.471	509.00	5.144
291.00	7.224	334.67	6.737	378.33	6.271	422.00	5.839	465.67	5.466	509.33	5.142
291.33	7.220	335.00	6.734	378.67	6.267	422.33	5.836	466.00	5.462	509.67	5.140
291.67	7.218	335.33	6.730	379.00	6.263	422.67	5.833	466.33	5.458	510.00	5.143
292.00	7.218	335.67	6.726	379.33	6.260	423.00	5.829	466.67	5.454	510.33	5.144
292.33	7.216	336.00	6.723	379.67	6.256	423.33	5.826	467.00	5.450	510.67	5.139
292.67	7.222	336.33	6.719	380.00	6.252	423.67	5.823	467.33	5.447	511.00	5.134
293.00	7.225	336.67	6.714	380.33	6.249	424.00	5.820	467.67	5.444	511.33	5.131
293.33	7.215	337.00	6.711	380.67	6.246	424.33	5.817	468.00	5.441	511.67	5.129
293.67	7.207	337.33	6.717	381.00	6.250	424.67	5.814	468.33	5.438	512.00	5.128
294.00	7.200	337.67	6.718	381.33	6.253	425.00	5.818	468.67	5.436	512.33	5.126
294.33	7.194	338.00	6.707	381.67	6.246	425.33	5.819	469.00	5.433	512.67	5.123
294.67	7.189	338.33	6.699	382.00	6.241	425.67	5.812	469.33	5.431	513.00	5.119
295.00	7.184	338.67	6.692	382.33	6.236	426.00	5.808	469.67	5.429	513.33	5.116
295.33	7.179	339.00	6.687	382.67	6.231	426.33	5.803	470.00	5.426	513.67	5.113
295.67	7.175	339.33	6.683	383.00	6.226	426.67	5.799	470.33	5.424	514.00	5.110
296.00	7.170	339.67	6.679	383.33	6.222	427.00	5.794	470.67	5.422	514.33	5.108
296.33	7.166	340.00	6.675	383.67	6.218	427.33	5.790	471.00	5.420	514.67	5.105
296.67	7.162	340.33	6.672	384.00	6.214	427.67	5.786	471.33	5.418	515.00	5.102
297.00	7.159	340.67	6.669	384.33	6.211	428.00	5.783	471.67	5.415	515.33	5.100
297.33	7.155	341.00	6.666	384.67	6.208	428.33	5.779	472.00	5.413	515.67	5.097
297.67	7.152	341.33	6.662	385.00	6.204	428.67	5.775	472.33	5.411	516.00	5.095
298.00	7.148	341.67	6.659	385.33	6.201	429.00	5.772	472.67	5.414	516.33	5.093
298.33	7.145	342.00	6.656	385.67	6.197	429.33	5.768	473.00	5.415	516.67	5.090
298.67	7.143	342.33	6.653	386.00	6.194	429.67	5.765	473.33	5.409	517.00	5.088
299.00	7.142	342.67	6.649	386.33	6.190	430.00	5.762	473.67	5.405	517.33	5.091
299.33	7.140	343.00	6.645	386.67	6.186	430.33	5.759	474.00	5.402	517.67	5.092
299.67	7.147	343.33	6.642	387.00	6.183	430.67	5.756	474.33	5.397	518.00	5.087
300.00	7.150	343.67	6.648	387.33	6.187	431.00	5.759	474.67	5.394	518.33	5.083
300.33	7.139	344.00	6.649	387.67	6.189	431.33	5.760	475.00	5.390	518.67	5.079
300.67	7.131	344.33	6.638	388.00	6.183	431.67	5.754	475.33	5.387	519.00	5.077
301.00	7.125	344.67	6.630	388.33	6.177	432.00	5.749	475.67	5.384	519.33	5.075
301.33	7.119	345.00	6.623	388.67	6.172	432.33	5.745	476.00	5.382	519.67	5.074
301.67	7.113	345.33	6.618	389.00	6.167	432.67	5.741	476.33	5.379	520.00	5.072
302.00	7.108	345.67	6.613	389.33	6.162	433.00	5.737	476.67	5.376	520.33	5.069
302.33	7.103	346.00	6.609	389.67	6.158	433.33	5.733	477.00	5.374	520.67	5.066
302.67	7.099	346.33	6.606	390.00	6.154	433.67	5.729	477.33	5.372	521.00	5.063
303.00	7.094	346.67	6.602	390.33	6.151	434.00	5.726	477.67	5.370	521.33	5.060
303.33	7.090	347.00	6.599	390.67	6.147	434.33	5.723	478.00	5.367	521.67	5.057
303.67	7.086	347.33	6.596	391.00	6.144	434.67	5.719	478.33	5.365	522.00	5.055
304.00	7.082	347.67	6.593	391.33	6.141	435.00	5.716	478.67	5.363	522.33	5.052
304.33	7.078	348.00	6.590	391.67	6.138	435.33	5.712	479.00	5.361	522.67	5.049
304.67	7.075	348.33	6.587	392.00	6.134	435.67	5.709	479.33	5.359	523.00	5.047
305.00	7.071	348.67	6.583	392.33	6.131	436.00	5.706	479.67	5.357	523.33	5.044
305.33	7.069	349.00	6.580	392.67	6.128	436.33	5.703	480.00	5.354	523.67	5.042

TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
524.00	5.039	567.67	4.749	611.33	4.455	655.00	4.145	698.67	3.865	742.33	3.609
524.33	5.037	568.00	4.747	611.67	4.452	655.33	4.142	699.00	3.863	742.67	3.608
524.67	5.040	568.33	4.744	612.00	4.450	655.67	4.140	699.33	3.861	743.00	3.606
525.00	5.041	568.67	4.742	612.33	4.448	656.00	4.137	699.67	3.859	743.33	3.604
525.33	5.036	569.00	4.740	612.67	4.445	656.33	4.134	700.00	3.857	743.67	3.602
525.67	5.032	569.33	4.737	613.00	4.444	656.67	4.133	700.33	3.855	744.00	3.600
526.00	5.028	569.67	4.735	613.33	4.443	657.00	4.132	700.67	3.854	744.33	3.597
526.33	5.026	570.00	4.733	613.67	4.440	657.33	4.130	701.00	3.852	744.67	3.595
526.67	5.024	570.33	4.735	614.00	4.438	657.67	4.128	701.33	3.850	745.00	3.593
527.00	5.023	570.67	4.736	614.33	4.435	658.00	4.127	701.67	3.848	745.33	3.591
527.33	5.021	571.00	4.732	614.67	4.432	658.33	4.125	702.00	3.845	745.67	3.589
527.67	5.018	571.33	4.728	615.00	4.429	658.67	4.122	702.33	3.844	746.00	3.586
528.00	5.016	571.67	4.725	615.33	4.426	659.00	4.120	702.67	3.842	746.33	3.584
528.33	5.013	572.00	4.721	615.67	4.424	659.33	4.118	703.00	3.840	746.67	3.582
528.67	5.010	572.33	4.719	616.00	4.421	659.67	4.115	703.33	3.838	747.00	3.580
529.00	5.007	572.67	4.716	616.33	4.419	660.00	4.112	703.67	3.836	747.33	3.578
529.33	5.005	573.00	4.713	616.67	4.416	660.33	4.110	704.00	3.833	747.67	3.576
529.67	5.002	573.33	4.711	617.00	4.414	660.67	4.107	704.33	3.831	748.00	3.574
530.00	4.999	573.67	4.709	617.33	4.412	661.00	4.104	704.67	3.828	748.33	3.573
530.33	4.997	574.00	4.707	617.67	4.410	661.33	4.101	705.00	3.826	748.67	3.572
530.67	4.994	574.33	4.705	618.00	4.407	661.67	4.099	705.33	3.824	749.00	3.570
531.00	4.992	574.67	4.703	618.33	4.405	662.00	4.096	705.67	3.822	749.33	3.568
531.33	4.989	575.00	4.701	618.67	4.403	662.33	4.093	706.00	3.820	749.67	3.566
531.67	4.987	575.33	4.699	619.00	4.401	662.67	4.092	706.33	3.818	750.00	3.563
532.00	4.990	575.67	4.697	619.33	4.398	663.00	4.090	706.67	3.816	750.33	3.561
532.33	4.990	576.00	4.695	619.67	4.397	663.33	4.088	707.00	3.815	750.67	3.558
532.67	4.985	576.33	4.692	620.00	4.396	663.67	4.086	707.33	3.813	751.00	3.555
533.00	4.981	576.67	4.690	620.33	4.394	664.00	4.085	707.67	3.811	751.33	3.553
533.33	4.978	577.00	4.688	620.67	4.391	664.33	4.083	708.00	3.809	751.67	3.550
533.67	4.975	577.33	4.686	621.00	4.388	664.67	4.080	708.33	3.807	752.00	3.547
534.00	4.973	577.67	4.683	621.33	4.385	665.00	4.078	708.67	3.805	752.33	3.544
534.33	4.972	578.00	4.685	621.67	4.382	665.33	4.076	709.00	3.804	752.67	3.541
534.67	4.970	578.33	4.686	622.00	4.380	665.67	4.074	709.33	3.802	753.00	3.538
535.00	4.968	578.67	4.682	622.33	4.377	666.00	4.072	709.67	3.800	753.33	3.536
535.33	4.965	579.00	4.679	622.67	4.375	666.33	4.070	710.00	3.798	753.67	3.535
535.67	4.963	579.33	4.675	623.00	4.372	666.67	4.068	710.33	3.796	754.00	3.531
536.00	4.960	579.67	4.672	623.33	4.370	667.00	4.065	710.67	3.793	754.33	3.527
536.33	4.958	580.00	4.669	623.67	4.367	667.33	4.063	711.00	3.791	754.67	3.523
536.67	4.955	580.33	4.667	624.00	4.365	667.67	4.060	711.33	3.788	755.00	3.520
537.00	4.953	580.67	4.664	624.33	4.363	668.00	4.057	711.67	3.786	755.33	3.516
537.33	4.950	581.00	4.662	624.67	4.361	668.33	4.055	712.00	3.784	755.67	3.511
537.67	4.947	581.33	4.660	625.00	4.359	668.67	4.052	712.33	3.782	756.00	3.507
538.00	4.945	581.67	4.658	625.33	4.356	669.00	4.051	712.67	3.780	756.33	3.503
538.33	4.942	582.00	4.656	625.67	4.354	669.33	4.049	713.00	3.778	756.67	3.500
538.67	4.940	582.33	4.653	626.00	4.352	669.67	4.046	713.33	3.776	757.00	3.497
539.00	4.937	582.67	4.651	626.33	4.351	670.00	4.045	713.67	3.774	757.33	3.493
539.33	4.935	583.00	4.650	626.67	4.350	670.33	4.043	714.00	3.772	757.67	3.488
539.67	4.938	583.33	4.648	627.00	4.348	670.67	4.041	714.33	3.771	758.00	3.482
540.00	4.938	583.67	4.646	627.33	4.345	671.00	4.039	714.67	3.769	758.33	3.477
540.33	4.933	584.00	4.644	627.67	4.342	671.33	4.037	715.00	3.767	758.67	3.472
540.67	4.929	584.33	4.641	628.00	4.339	671.67	4.035	715.33	3.765	759.00	3.467
541.00	4.926	584.67	4.639	628.33	4.336	672.00	4.033	715.67	3.764	759.33	3.463
541.33	4.924	585.00	4.637	628.67	4.334	672.33	4.031	716.00	3.762	759.67	3.460
541.67	4.922	585.33	4.635	629.00	4.331	672.67	4.029	716.33	3.760	760.00	3.454
542.00	4.921	585.67	4.636	629.33	4.329	673.00	4.027	716.67	3.758	760.33	3.448
542.33	4.918	586.00	4.637	629.67	4.326	673.33	4.025	717.00	3.756	760.67	3.442
542.67	4.915	586.33	4.633	630.00	4.324	673.67	4.023	717.33	3.753	761.00	3.436
543.00	4.913	586.67	4.629	630.33	4.321	674.00	4.020	717.67	3.751	761.33	3.431
543.33	4.911	587.00	4.626	630.67	4.319	674.33	4.018	718.00	3.749	761.67	3.427
543.67	4.908	587.33	4.623	631.00	4.317	674.67	4.015	718.33	3.746	762.00	3.422
544.00	4.906	587.67	4.620	631.33	4.315	675.00	4.012	718.67	3.744	762.33	3.416
544.33	4.903	588.00	4.618	631.67	4.312	675.33	4.010	719.00	3.742	762.67	3.410
544.67	4.901	588.33	4.615	632.00	4.310	675.67	4.008	719.33	3.740	763.00	3.403
545.00	4.898	588.67	4.613	632.33	4.308	676.00	4.007	719.67	3.738	763.33	3.397
545.33	4.896	589.00	4.610	632.67	4.307	676.33	4.004	720.00	3.736	763.67	3.392
545.67	4.893	589.33	4.608	633.00	4.305	676.67	4.003	720.33	3.734	764.00	3.388
546.00	4.891	589.67	4.606	633.33	4.303	677.00	4.001	720.67	3.733	764.33	3.382
546.33	4.888	590.00	4.604	633.67	4.301	677.33	3.998	721.00	3.731	764.67	3.375
546.67	4.886	590.33	4.602	634.00	4.299	677.67	3.996	721.33	3.729	765.00	3.368
547.00	4.884	590.67	4.600	634.33	4.296	678.00	3.994	721.67	3.727	765.33	3.362
547.33	4.886	591.00	4.598	634.67	4.294	678.33	3.992	722.00	3.725	765.67	3.356
547.67	4.887	591.33	4.595	635.00	4.291	678.67	3.990	722.33	3.725	766.00	3.351
548.00	4.882	591.67	4.593	635.33	4.288	679.00	3.988	722.67	3.723	766.33	3.344
548.33	4.877	592.00	4.591	635.67	4.286	679.33	3.986	723.00	3.721	766.67	3.336
548.67	4.875	592.33	4.588	636.00	4.283	679.67	3.984	723.33	3.719	767.00	3.328
549.00	4.873	592.67	4.586	636.33	4.281	680.00	3.982	723.67	3.717	767.33	3.321
549.33	4.871	593.00	4.588	636.67	4.278	680.33	3.980	724.00	3.715	767.67	3.315
549.67	4.869	593.33	4.589	637.00	4.276	680.67	3.978	724.33	3.712	768.00	3.309
550.00	4.866	593.67	4.584	637.33	4.273	681.00	3.976	724.67	3.710	768.33	3.300
550.33	4.863	594.00	4.580	637.67	4.271	681.33	3.973	725.00	3.708	768.67	3.293
550.67	4.861	594.33	4.577	638.00	4.269	681.67	3.971	725.33	3.705	769.00	3.285
551.00	4.859	594.67	4.574	638.33	4.267	682.00	3.968	725.67	3.703	769.33	3.279
551.33	4.857	595.00	4.571	638.67	4.264	682.33	3.967	726.00	3.701	769.67	3.271
551.67	4.854	595.33	4.568	639.00	4.263	682.67	3.965	726.33	3.699	770.00	3.263
552.00	4.852	595.67	4.566	639.33	4.262	683.00	3.962	726.67	3.697	770.33	3.256
552.33	4.850	596.00	4.563	639.67	4.259	683.33	3.961	727.00	3.695	770.67	3.249
552.67	4.847	596.33	4.561	640.00	4.258	683.67	3.959	727.33	3.694	771.00	3.242
553.00	4.845	596.67	4.559	640.33	4.256	684.00	3.956	727.67	3.692	771.33	3.235
553.33	4.843	597.00	4.557	640.67	4.253	684.33	3.954	728.00	3.690	771.67	3.228
553.67	4.840	597.33	4.554	641.00	4.251	684.67	3.952	728.33	3.688	772.00	3.221
554.00	4.838	597.67	4.552	641.33	4.248	685.00	3.950	728.67	3.686	772.33	3.214
554.33	4.835	598.00	4.550	641.67	4.245	685.33	3.948	729.00	3.686	772.67	3.207
554.67	4.833	598.33	4.547	642.00	4.243	685.67	3.946	729.33	3.685	773.00	3.201
555.00	4.835	598.67	4.544	642.33	4.240	686.00	3.944	729.67	3.683	773.33	3.193
555.33	4.836	599.00	4.542	642.67	4.238	686.33	3.942	730.00	3.681	773.67	3.186
555.67	4.831	599.33	4.539	643.00	4.235	686.67	3.940	730.33	3.678	774.00	3.179
556.00	4.827	599.67	4.539	643.33	4.233	687.00	3.938	730.67	3.676	774.33	3.173
556.33	4.825	600.00	4.539	643.67	4.230	687.33	3.936	731.00	3.673	774.67	3.166
556.67	4.823	600.33	4.536	644.00	4.228	687.67	3.934	731.33	3.671	775.00	3.159
557.00	4.820	600.67	4.533	644.33	4.226	688.00	3.932	731.67	3.669	775.33	3.152
557.33	4.817	601.00	4.530	644.67	4.223	688.33	3.929	732.00	3.667	775.67	3.145
557.67	4.815	601.33	4.527	645.00	4.221	688.67	3.927	732.33	3.665	776.00	3.139
558.00	4.812	601.67	4.524	645.33	4.220	689.00	3.925	732.67	3.663	776.33	3.133
558.33	4.810	602.00	4.521	645.67	4.218	689.33	3.924	733.00	3.661	776.67	3.125
558.67	4.808	602.33	4.518	646.00	4.215	689.67	3.921	733.33	3.659	777.00	3.119
559.00	4.805	602.67	4.516	646.33	4.214	690.00	3.919	733.67	3.657	777.33	3.112
559.33	4.803	603.00	4.513	646.67	4.211	690.33	3.917	734.00	3.655	777.67	3.106
559.67	4.801	603.33	4.511	647.00	4.208	690.67	3.915	734.33	3.653	778.00	3.099
560.00	4.799	603.67	4.509	647.33	4.206	691.00	3.913	734.67	3.652	778.33	3.092
560.33	4.797	604.00	4.507	647.67	4.203	691.33	3.910	735.00	3.650	778.67	3.085
560.67	4.795	604.33	4.504	648.00	4.200	691.67	3.908	735.33	3.648	779.00	3.079
561.00	4.792	604.67	4.502	648.33	4.197	692.00	3.906	735.67	3.647	779.33	3.073
561.33	4.790	605.00	4.500	648.67	4.194	692.33	3.904	736.00	3.646	779.67	3.066
561.67	4.787	605.33	4.497	649.00	4.191	692.67	3.902	736.33	3.644	780.00	3.059
562.00	4.785	605.67	4.495	649.33	4.189	693.00	3.900	736.67	3.642	780.33	3.053
562.33	4.783	606.00	4.492	649.67	4.186	693.33	3.899	737.00	3.640	780.67	3.046
562.67	4.785	606.33	4.491	650.00	4.184	693.67	3.897	737.33	3.638	781.00	3.040
563.00	4.785	606.67	4.490	650.33	4.181	694.00	3.895	737.67	3.636	781.33	3.034
563.33	4.781	607.00	4.487	650.67	4.179	694.33	3.893	738.00	3.633	781.67	3.027
563.67	4.778	607.33	4.485	651.00	4.177	694.67	3.891	738.33	3.631	782.00	3.020
564.00	4.775	607.67	4.482	651.33	4.176	695.00	3.888	738.67	3.629	782.33	3.014
564.33	4.772	608.00	4.479	651.67	4.173	695.33	3.886	739.00	3.627	782.67	3.008
564.67	4.769	608.33	4.476	652.00	4.171	695.67	3.884	739.33	3.625	783.00	3.001
565.00	4.766	608.67	4.473	652.33	4.169	696.00	3.883	739.67	3.623	783.33	2.994
565.33	4.764	609.00	4.471	652.67	4.166	696.33	3.880	740.00	3.621	783.67	2.988
565.67	4.761	609.33	4.468	653.00	4.163	696.67	3.878	740.33	3.619	784.00	2.981
566.00	4.759	609.67	4.466	653.33	4.160	697.00	3.876	740.67	3.617	784.33	2.976
566.33	4.757	610.00	4.464	653.67	4.157	697.33	3.874	741.00	3.615	784.67	2.969
566.67	4.755	610.33	4.461	654.00	4.153	697.67	3.871	741.33	3.613	785.00	2.962
567.00	4.753	610.67	4.459	654.33	4.150	698.00	3.869	741.67	3.611	785.33	2.956
567.33	4.751	611.00	4.457	654.67	4.148	698.33	3.867	742.00	3.610	785.67	2.950

TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
786.00	2.944	829.67	2.239	873.33	0.234	917.00	0.002
786.33	2.938	830.00	2.234	873.67	0.227	917.33	0.002
786.67	2.931	830.33	2.229	874.00	0.221	917.67	0.002
787.00	2.924	830.67	2.224	874.33	0.215	918.00	0.002
787.33	2.918	831.00	2.219	874.67	0.209	918.33	0.002
787.67	2.912	831.33	2.214	875.00	0.204	918.67	0.002
788.00	2.906	831.67	2.208	875.33	0.198	919.00	0.002
788.33	2.900	832.00	2.203	875.67	0.193	919.33	0.002
788.67	2.893	832.33	2.197	876.00	0.188	919.67	0.002
789.00	2.887	832.67	2.191	876.33	0.182	920.00	0.001
789.33	2.881	833.00	2.185	876.67	0.177	920.33	0.001
789.67	2.875	833.33	2.178	877.00	0.172	920.67	0.001
790.00	2.869	833.67	2.172	877.33	0.167	921.00	0.001
790.33	2.862	834.00	2.165	877.67	0.163	921.33	0.001
790.67	2.856	834.33	2.159	878.00	0.158	921.67	0.001
791.00	2.851	834.67	2.151	878.33	0.154	922.00	0.001
791.33	2.845	835.00	2.143	878.67	0.149	922.33	0.001
791.67	2.838	835.33	2.136	879.00	0.145	922.67	0.001
792.00	2.832	835.67	2.128	879.33	0.141	923.00	0.001
792.33	2.826	836.00	2.119	879.67	0.136	923.33	0.001
792.67	2.820	836.33	2.109	880.00	0.132	923.67	0.001
793.00	2.815	836.67	2.099	880.33	0.128	924.00	0.001
793.33	2.808	837.00	2.088	880.67	0.124	924.33	0.001
793.67	2.802	837.33	2.077	881.00	0.120	924.67	0.001
794.00	2.796	837.67	2.067	881.33	0.116	925.00	0.001
794.33	2.790	838.00	2.055	881.67	0.113	925.33	0.001
794.67	2.785	838.33	2.044	882.00	0.110	925.67	0.001
795.00	2.778	838.67	2.033	882.33	0.107	926.00	0.001
795.33	2.772	839.00	2.021	882.67	0.104	926.33	0.001
795.67	2.766	839.33	2.008	883.00	0.101	926.67	0.001
796.00	2.761	839.67	1.995	883.33	0.098	927.00	0.001
796.33	2.755	840.00	1.982	883.67	0.095	927.33	0.001
796.67	2.749	840.33	1.968	884.00	0.092	927.67	0.001
797.00	2.743	840.67	1.954	884.33	0.089	928.00	0.001
797.33	2.737	841.00	1.939	884.67	0.087	928.33	0.001
797.67	2.732	841.33	1.924	885.00	0.084	928.67	0.001
798.00	2.726	841.67	1.909	885.33	0.082	929.00	0.000
798.33	2.720	842.00	1.892	885.67	0.079	929.33	0.000
798.67	2.714	842.33	1.876	886.00	0.077	929.67	0.000
799.00	2.708	842.67	1.859	886.33	0.074	930.00	0.000
799.33	2.703	843.00	1.841	886.67	0.072	930.33	0.000
799.67	2.698	843.33	1.823	887.00	0.070	930.67	0.000
800.00	2.691	843.67	1.805	887.33	0.068	931.00	0.000
800.33	2.685	844.00	1.786	887.67	0.066	931.33	0.000
800.67	2.680	844.33	1.767	888.00	0.064	931.67	0.000
801.00	2.675	844.67	1.747	888.33	0.062	932.00	0.000
801.33	2.669	845.00	1.727	888.67	0.060	932.33	0.000
801.67	2.663	845.33	1.707	889.00	0.058	932.67	0.000
802.00	2.657	845.67	1.685	889.33	0.056	933.00	0.000
802.33	2.652	846.00	1.661	889.67	0.054	933.33	0.000
802.67	2.646	846.33	1.637	890.00	0.052	933.67	0.000
803.00	2.641	846.67	1.613	890.33	0.051	934.00	0.000
803.33	2.635	847.00	1.589	890.67	0.049	934.33	0.000
803.67	2.629	847.33	1.565	891.00	0.047	934.67	0.000
804.00	2.624	847.67	1.540	891.33	0.046	935.00	0.000
804.33	2.619	848.00	1.515	891.67	0.044	935.33	0.000
804.67	2.614	848.33	1.490	892.00	0.043	935.67	0.000
805.00	2.608	848.67	1.465	892.33	0.041	936.00	0.000
805.33	2.602	849.00	1.441	892.67	0.040	936.33	0.000
805.67	2.596	849.33	1.417	893.00	0.038	936.67	0.000
806.00	2.591	849.67	1.393	893.33	0.037	937.00	0.000
806.33	2.586	850.00	1.369	893.67	0.036	937.33	0.000
806.67	2.580	850.33	1.346	894.00	0.034	937.67	0.000
807.00	2.575	850.67	1.323	894.33	0.033	938.00	0.000
807.33	2.569	851.00	1.300	894.67	0.032	938.33	0.000
807.67	2.564	851.33	1.278	895.00	0.031	938.67	0.000
808.00	2.559	851.67	1.256	895.33	0.030	939.00	0.000
808.33	2.553	852.00	1.234	895.67	0.029	939.33	0.000
808.67	2.548	852.33	1.213	896.00	0.028	939.67	0.000
809.00	2.543	852.67	1.191	896.33	0.027	940.00	0.000
809.33	2.538	853.00	1.170	896.67	0.026	940.33	0.000
809.67	2.533	853.33	1.148	897.00	0.025	940.67	0.000
810.00	2.527	853.67	1.127	897.33	0.024	941.00	0.000
810.33	2.521	854.00	1.106	897.67	0.023	941.33	0.000
810.67	2.516	854.33	1.085	898.00	0.022	941.67	0.000
811.00	2.511	854.67	1.064	898.33	0.021	942.00	0.000
811.33	2.506	855.00	1.043	898.67	0.020	942.33	0.000
811.67	2.501	855.33	1.022	899.00	0.020	942.67	0.000
812.00	2.495	855.67	1.001	899.33	0.019	943.00	0.000
812.33	2.490	856.00	0.981	899.67	0.018	943.33	0.000
812.67	2.485	856.33	0.961	900.00	0.017	943.67	0.000
813.00	2.480	856.67	0.941	900.33	0.017	944.00	0.000
813.33	2.475	857.00	0.921	900.67	0.016	944.33	0.000
813.67	2.469	857.33	0.901	901.00	0.016	944.67	0.000
814.00	2.464	857.67	0.881	901.33	0.015	945.00	0.000
814.33	2.459	858.00	0.862	901.67	0.014	945.33	0.000
814.67	2.455	858.33	0.843	902.00	0.014	945.67	0.000
815.00	2.449	858.67	0.824	902.33	0.013	946.00	0.000
815.33	2.444	859.00	0.805	902.67	0.013	946.33	0.000
815.67	2.439	859.33	0.786	903.00	0.012	946.67	0.000
816.00	2.434	859.67	0.768	903.33	0.012	947.00	0.000
816.33	2.429	860.00	0.747	903.67	0.011	947.33	0.000
816.67	2.424	860.33	0.724	904.00	0.011	947.67	0.000
817.00	2.419	860.67	0.701	904.33	0.010	948.00	0.000
817.33	2.414	861.00	0.676	904.67	0.010	948.33	0.000
817.67	2.409	861.33	0.651	905.00	0.010	948.67	0.000
818.00	2.404	861.67	0.629	905.33	0.009	949.00	0.000
818.33	2.399	862.00	0.609	905.67	0.009	949.33	0.000
818.67	2.394	862.33	0.590	906.00	0.009	949.67	0.000
819.00	2.389	862.67	0.572	906.33	0.008	950.00	0.000
819.33	2.385	863.00	0.556	906.67	0.008	950.33	0.000
819.67	2.380	863.33	0.540	907.00	0.008	950.67	0.000
820.00	2.375	863.67	0.523	907.33	0.007	951.00	0.000
820.33	2.370	864.00	0.507	907.67	0.007	951.33	0.000
820.67	2.365	864.33	0.491	908.00	0.007	951.67	0.000
821.00	2.360	864.67	0.476	908.33	0.006	952.00	0.000
821.33	2.356	865.00	0.462	908.67	0.006	952.33	0.000
821.67	2.351	865.33	0.449	909.00	0.006	952.67	0.000
822.00	2.346	865.67	0.436	909.33	0.006	953.00	0.000
822.33	2.341	866.00	0.423	909.67	0.005	953.33	0.000
822.67	2.336	866.33	0.411	910.00	0.005	953.67	0.000
823.00	2.332	866.67	0.400	910.33	0.005	954.00	0.000
823.33	2.327	867.00	0.389	910.67	0.005	954.33	0.000
823.67	2.322	867.33	0.378	911.00	0.005	954.67	0.000
824.00	2.317	867.67	0.368	911.33	0.004	955.00	0.000
824.33	2.313	868.00	0.358	911.67	0.004	955.33	0.000
824.67	2.308	868.33	0.349	912.00	0.004	955.67	0.000
825.00	2.303	868.67	0.340	912.33	0.004	956.00	0.000
825.33	2.299	869.00	0.331	912.67	0.004	956.33	0.000
825.67	2.294	869.33	0.322	913.00	0.004	956.67	0.000
826.00	2.290	869.67	0.313	913.33	0.003	957.00	0.000
826.33	2.285	870.00	0.305	913.67	0.003	957.33	0.000
826.67	2.280	870.33	0.297	914.00	0.003	957.67	0.000
827.00	2.275	870.67	0.289	914.33	0.003	958.00	0.000
827.33	2.271	871.00	0.282	914.67	0.003	958.33	0.000
827.67	2.267	871.33	0.274	915.00	0.003	958.67	0.000
828.00	2.262	871.67	0.267	915.33	0.003	959.00	0.000
828.33	2.257	872.00	0.260	915.67	0.003	959.33	0.000
828.67	2.252	872.33	0.253	916.00	0.002	959.67	0.000
829.00	2.248	872.67	0.247	916.33	0.002	960.00	0.000
829.33	2.243	873.00	0.240	916.67	0.002	960.33	0.000

N1 (JR SPRING)



Hydrograph Statistics:

Legend	Filename & Comment	Time Step (min)	Drainage Area (ha)	Peak Flow (cms)	Time to Peak (hrs)	Runoff Volume (mm)	Runoff Volume (cu.m)	Duration of flow (hrs)	Average flow (cms)
——●——	H-N1.100 : total outflow of Jock River	20.00	55474.00	225.788	138.000	170.15	9.439E+07	300.000	87.397

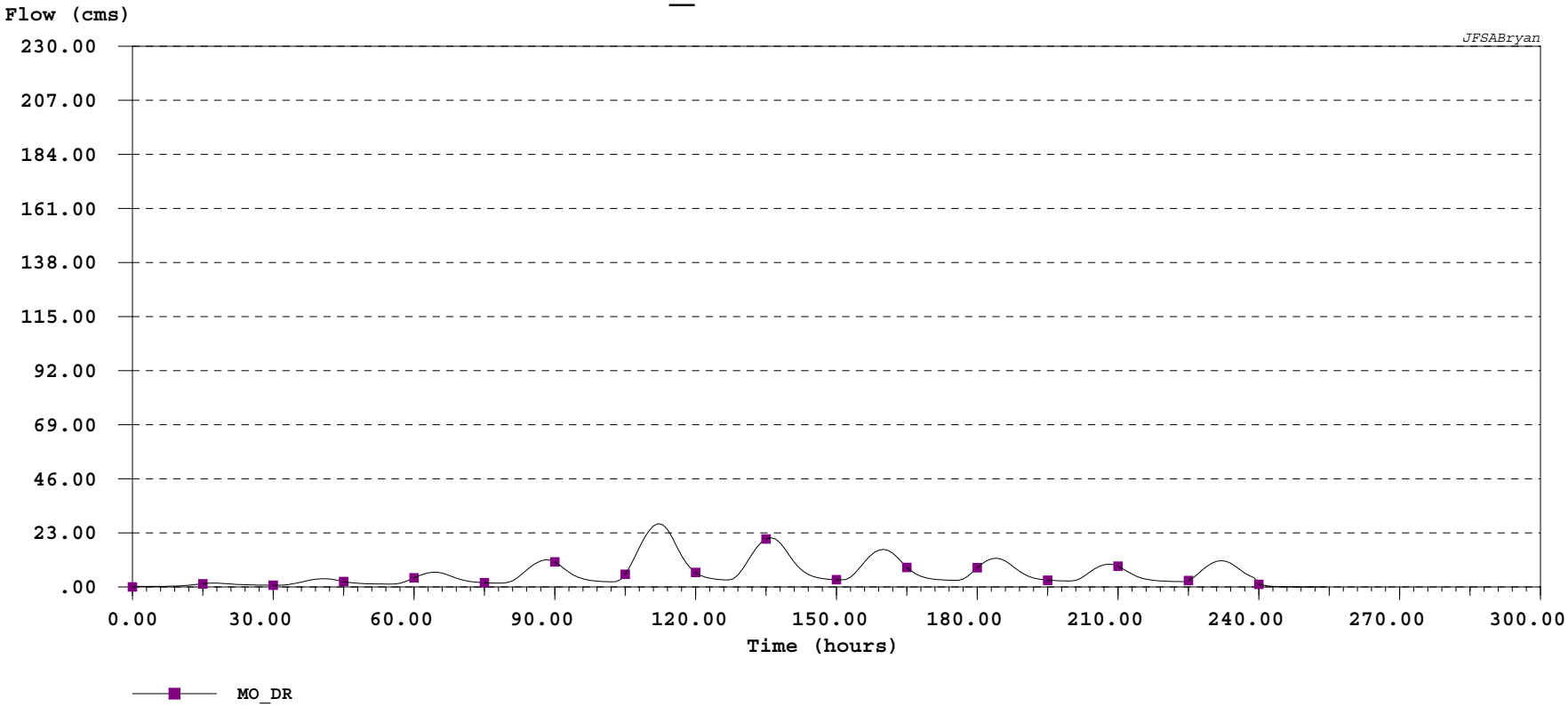
Hydrograph Table:

Hydrograph Filename : Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\JRSPRI~1\H-N1.100
Comment in file : total outflow of Jock River

TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
0.00	0.000	43.67	42.297	87.33	94.997	131.00	171.565	174.67	130.173	218.33	95.489	262.00	49.776	305.67	7.108	349.33	6.617	393.00	6.163	436.67	5.738	480.33	5.362
0.33	0.101	44.00	42.900	87.67	97.313	131.33	174.472	175.00	128.932	218.67	94.768	262.33	49.279	306.00	7.102	349.67	6.611	393.33	6.160	437.00	5.735	480.67	5.363
0.67	0.209	44.33	43.420	88.00	99.563	131.67	177.665	175.33	127.688	219.00	94.110	262.67	48.754	306.33	7.097	350.00	6.606	393.67	6.155	437.33	5.732	481.00	5.361
1.00	0.323	44.67	43.872	88.33	101.477	132.00	181.057	175.67	126.431	219.33	93.435	263.00	48.211	306.67	7.096	350.33	6.605	394.00	6.151	437.67	5.731	481.33	5.359
1.33	0.341	45.00	44.241	88.67	103.190	132.33	184.527	176.00	125.160	219.67	92.795	263.33	47.618	307.00	7.094	350.67	6.602	394.33	6.149	438.00	5.726	481.67	5.357
1.67	0.359	45.33	44.512	89.00	104.717	132.67	188.082	176.33	124.148	220.00	92.224	263.67	46.902	307.33	7.090	351.00	6.599	394.67	6.146	438.33	5.721	482.00	5.355
2.00	0.378	45.67	44.730	89.33	105.809	133.00	191.711	176.67	123.326	220.33	91.621	264.00	45.975	307.67	7.086	351.33	6.595	395.00	6.143	438.67	5.719	482.33	5.352
2.33	0.398	46.00	44.879	89.67	106.642	133.33	195.198	177.00	122.629	220.67	91.051	264.33	44.781	308.00	7.082	351.67	6.591	395.33	6.139	439.00	5.716	482.67	5.350
2.67	0.419	46.33	44.963	90.00	107.248	133.67	198.697	177.33	122.353	221.00	90.546	264.67	43.353	308.33	7.079	352.00	6.587	395.67	6.136	439.33	5.713	483.00	5.347
3.00	0.440	46.67	44.983	90.33	107.424	134.00	202.253	177.67	122.279	221.33	90.025	265.00	41.735	308.67	7.075	352.33	6.583	396.00	6.133	439.67	5.710	483.33	5.345
3.33	0.462	47.00	44.919	90.67	107.335	134.33	205.528	178.00	122.397	221.67	89.538	265.33	39.861	309.00	7.071	352.67	6.580	396.33	6.129	440.00	5.707	483.67	5.343
3.67	0.485	47.33	44.822	91.00	106.998	134.67	208.711	178.33	122.937	222.00	89.103	265.67	37.755	309.33	7.067	353.00	6.576	396.67	6.126	440.33	5.704	484.00	5.341
4.00	0.508	47.67	44.690	91.33	106.310	135.00	211.911	178.67	123.636	222.33	88.658	266.00	35.684	309.67	7.063	353.33	6.572	397.00	6.123	440.67	5.701	484.33	5.338
4.33	0.533	48.00	44.516	91.67	105.443	135.33	214.684	179.00	124.477	222.67	88.215	266.33	33.801	310.00	7.059	353.67	6.569	397.33	6.120	441.00	5.698	484.67	5.336
4.67	0.557	48.33	44.313	92.00	104.419	135.67	217.242	179.33	125.575	223.00	87.827	266.67	32.001	310.33	7.055	354.00	6.565	397.67	6.116	441.33	5.695	485.00	5.334
5.00	0.583	48.67	44.068	92.33	103.229	136.00	219.698	179.67	126.841	223.33	87.440	267.00	30.240	310.67	7.051	354.33	6.562	398.00	6.113	441.67	5.692	485.33	5.332
5.33	0.609	49.00	43.763	92.67	101.942	136.33	221.605	180.00	128.234	223.67	87.049	267.33	28.560	311.00	7.047	354.67	6.558	398.33	6.110	442.00	5.689	485.67	5.322
5.67	0.636	49.33	43.443	93.00	100.523	136.67	223.165	180.33	129.707	224.00	86.706	267.67	26.961	311.33	7.043	355.00	6.555	398.67	6.107	442.33	5.686	486.00	5.313
6.00	0.663	49.67	43.083	93.33	99.047	137.00	224.537	180.67	131.303	224.33	86.572	268.00	25.481	311.67	7.040	355.33	6.552	399.00	6.104	442.67	5.683	486.33	5.312
6.33	0.690	50.00	42.683	93.67	97.541	137.33	225.245	181.00	133.010	224.67	86.579	268.33	24.149	312.00	7.036	355.67	6.548	399.33	6.100	443.00	5.679	486.67	5.311
6.67	0.718	50.33	42.263	94.00	95.987	137.67	225.619	181.33	134.660	225.00	86.720	268.67	22.947	312.33	7.030	356.00	6.543	399.67	6.097	443.33	5.676	487.00	5.310
7.00	0.746	50.67	41.803	94.33	94.497	138.00	225.788	181.67	136.288	225.33	87.264	269.00	21.852	312.67	7.025	356.33	6.540	400.00	6.092	443.67	5.674	487.33	5.308
7.33	0.794	51.00	41.330	94.67	93.037	138.33	225.071	182.00	137.944	225.67	88.035	269.33	20.842	313.00	7.024	356.67	6.538	400.33	6.089	444.00	5.672	487.67	5.307
7.67	0.843	51.33	40.839	95.00	91.586	138.67	223.881	182.33	139.446	226.00	88.934	269.67	19.893	313.33	7.021	357.00	6.534	400.67	6.086	444.33	5.668	488.00	5.307
8.00	0.893	51.67	40.327	95.33	90.255	139.00	222.576	182.67	140.888	226.33	90.184	270.00	18.999	313.67	7.018	357.33	6.531	401.00	6.083	444.67	5.663	488.33	5.307
8.33	0.956	52.00	39.805	95.67	88.972	139.33	220.837	183.00	142.292	226.67	91.656	270.33	18.173	314.00	7.014	357.67	6.527	401.33	6.080	445.00	5.660	488.67	5.306
8.67	1.021	52.33	39.287	96.00	87.711	139.67	218.773	183.33	143.476	227.00	93.233	270.67	17.363	314.33	7.010	358.00	6.523	401.67	6.076	445.33	5.657	489.00	5.304
9.00	1.089	52.67	38.768	96.33	86.569	140.00	216.638	183.67	144.515	227.33	95.012	271.00	16.566	314.67	7.006	358.33	6.520	402.00	6.073	445.67	5.654	489.33	5.302
9.33	1.168	53.00	38.248	96.67	85.483	140.33	214.378	184.00	145.423	227.67	96.946	271.33	15.836	315.00	7.003	358.67	6.516	402.33	6.070	446.00	5.651	489.67	5.299
9.67	1.253	53.33	37.734	97.00	84.427	140.67	211.847	184.33	146.102	228.00	98.992	271.67	15.177	315.33	6.999	359.00	6.512	402.67	6.066	446.33	5.649	490.00	5.297
10.00	1.344	53.67	37.189	97.33	83.476	141.00	209.230	184.67	146.667	228.33	101.125	272.00	14.579	315.67	6.995	359.33	6.508	403.00	6.063	446.67	5.646	490.33	5.295
10.33	1.452	54.00	36.613	97.67	82.563	141.33	206.784	185.00	147.063	228.67	103.349	272.33	14.035	316.00	6.991	359.67	6.505	403.33	6.060	447.00	5.643	490.67	5.292
10.67	1.567	54.33	36.057	98.00	81.689	141.67	204.202	185.33	147.072	229.00	105.666	272.67	13.538	316.33	6.987	360.00	6.501	403.67	6.057	447.33	5.640	491.00	5.290
11.00	1.691	54.67	35.519	98.33	80.903	142.00	201.648	185.67	146.972	229.33	107.945	273.00	13.084	316.67	6.983	360.33	6.498	404.00	6.053	447.67	5.637	491.33	5.288
11.33	1.836	55.00	35.000	98.67	80.158	142.33	199.415	186.00	146.772	229.67	110.219	273.33	12.667	317.00	6.979	360.67	6.494	404.33	6.050	448.00	5.634	491.67	5.285
11.67	1.993	55.33	34.521	99.00	79.437	142.67	197.068	186.33	146.174	230.00	112.508	273.67	12.283	317.33	6.976	361.00	6.491	404.67	6.047	448.33	5.631	492.00	5.283
12.00	2.160	55.67	34.055	99.33	78.809	143.00	194.721	186.67	145.388	230.33	114.612	274.00	11.928	317.67	6.972	361.33	6.487	405.00	6.044	448.67	5.629	492.33	5.281
12.33	2.349	56.00	33.615	99.67	78.239	143.33	192.737	187.00	144.485	230.67	116.622	274.33	11.597	318.00	6.968	361.67	6.484	405.33	6.041	449.00	5.626	492.67	5.279
12.67	2.552	56.33	33.316	100.00	77.658	143.67	190.687	187.33	143.344	231.00	118.600	274.67	11.275	318.33	6.964	362.00	6.481	405.67	6.038	449.33	5.623	493.00	5.277
13.00	2.777	56.67	33.130	100.33	77.144	144.00	188.582	187.67	142.150	231.33	120.254	275.00	10.963	318.67	6.958	362.33	6.477	406.00	6.035	449.67	5.620	493.33	5.267
13.33	3.038	57.00	32.997	100.67	76.692	144.33	186.749	188.00	140.889	231.67	121.693	275.33	10.676	319.00	6.953	362.67	6.473	406.33	6.030	450.00	5.617	493.67	5.258
13.67	3.326	57.33	33.047	101.00	76.234	144.67	184.926	188.33	139.464	232.00	123.037	275.67	10.413	319.33	6.952	363.00	6.470	406.67	6.026	450.33	5.615	494.00	5.257
14.00	3.648	57.67	33.228	101.33	75.813	145.00	183.158	188.67	138.018	232.33	124.034	276.00	10.172	319.67	6.949	363.33	6.467	407.00	6.024	450.67	5.613	494.33	5.256
14.33	3.984	58.00	33.487	101.67	75.447	145.33	181.543	189.00	136.579	232.67	124.870	276.33	9.951	320.00	6.946	363.67	6.463	407.33	6.021	451.00	5.609	494.67	5.254
14.67	4.324	58.33	33.918	102.00	75.071	145.67	179.863	189.33	135.101	233.00	125.551	276.67	9.749	320.33	6.942	364.00	6.460	407.67	6.018	451.33	5.604	495.00	5.253
15.00	4.683	58.67	34.488	102.33	74.758	146.00	178.284	189.67	133.666	233.33	125.806	277.00	9.564	320.67	6.938	364.33	6.456	408.00	6.014	451.67	5.601	495.33	5.253
15.33	5.058	59.00	35.195	102.67	74.519	146.33	176.877	190.00	132.300	233.67	125.886	277.33	9.393	321.00	6.935	364.67	6.453	408.33	6.011	452.00	5.599	495.67	5.253
15.67	5.467	59.33	36.008	103.00	74.318	146.67	175.374	190.33	130.952	234.00	125.817	277.67	9.235	321.33	6.931	365.00	6.449	408.67	6.008	452.33	5.596	496.00	5.252
16.00	5.919	59.67	36.886	103.33	74.523	147.00	173.854	190.67	129.617	234.33	125.338	278.00	9.089	321.67	6.927	365.33	6.446	409.00	6.004	452.67	5.593	496.33	5.250
16.33	6.404	60.00	37.874	103.67	75.011	147.33	172.431	191.00	128.319	234.67	124.607	278.33	8.954	322.00	6.924	365.67	6.442	409.33	6.001	453.00	5.590	496.67	5.248
16.67	6.947	60.33	38.977	104.00	75.695	147.67	171.008	191.33	127.085	235.00	123.736	278.67	8.830	322.33	6.920	366.00	6.438	409.67	5.998	453.33	5.587	497.00	5.246
17.00	7.512	60.67	40.207	104.33	77.085	148.00	169.552	191.67	125.922	235.33	122.624	279.00	8.716	322.67	6.916	366.33	6.435	410.00	5.994	453.67	5.585	497.33	5.244
17.33	8.025	61.00	41.585	104.67	78.899	148.33	168.106	192.00	124.805	235.67	121.347	279.33	8.609	323.00	6.913	366.67	6.431	410.33	5.991	454.00	5.582	497.67	5.242
17.67	8.531	61.33	43.062	105.00	81.039	148.67	166.652	192.33	123.706	236.00	119.938	279.67	8.510	323.33	6.909	367.00	6.428	410.67	5.988	454.33	5.579	498.00	5.240
18.00	9.057	61.67	44.646	105.33	83.945	149.00	165.177	192.67	122.653	236.33	118.435	280.00	8.420	323.67	6.905	367.33	6.424	411.00	5.985	454.67	5.577	498.33	5.237
18.33	9.553	62.00	46.363	105.67	87.307	149.33	163.702	193.00	121.634	236.67	116.880	280.33	8.343	324.00	6.901	367.67	6.421	411.33	5.982	455.00	5.574	498.67	5.235
18.67	10.053	62.33	48.156	106.00	91.013	149.67	162.200	193.33	120.599	237.00	115.260	280.67	8.265	324.33	6.897	368.00	6.417	411.67	5.979	455.33	5.571	499.00	5.233
19.00	10.574	62.67	49.986	106.33	95.322	150.00	160.664	193.67	119.612	237.33	113.671	281.00	8.191	324.67	6.894	368.33	6.413	412.00	5.975	455.67	5.569	499.33	5.231
19.33	11.094	63.00	51.853	106.67	100.064	150.33	159.115	194.00	118.692	237.67	112.079	281.33	8.123	325.00	6.888	368.67	6.409	412.33	5.972	456.00	5.566	499.67	5.228
19.67	11.625	63.33	53.745	107.00	105.220	150.67	157.535	194.33	117.790	238.00	110.457	281.67	8.059	325.33	6.882	369.00	6.407	412.67	5.968	456.33	5.563	500.00	5.226
20.00	12.163	63.67	55.734	107.33	110.892	151.00	155.940	194.67	116.879	238.33	108.920	282.00	8.003	325.67	6.881	369.33	6.404	413.00	5.964	456.67	5.561	500.33	5.224
20.33	12.700	64.00	57.768	107.67	116.869	151.33	154.440	195.00	115.977	238.67	107.427	282.33	7.951	326.00	6.878	369.67	6.400	413.33	5.962	457.00	5.558	500.67	5.222
20.67	13.245	64.33	59.656	108.00	123.060	151.67	152.960	195.33	115.121	239.00	105.946	282.67	7.902	326.33	6.875	370.00	6.397	413.67	5.959	457.33	5.556	501.00	5.213
21.00	13.752	64.67	61.494	108.33	129.493	152.00	151.457	195.67	114.265	239.33	103.454	283.00	7.854	326.67	6.871	370.33	6.394	414.00	5.956	457.67	5.554	501.33	5.204
21.33	14.212	65.00	63.317	108.67	136.207	152.33	150.356	196.00	113.397	239.67	100.510	283.33	7.810	327.00	6.867	370.67	6.390	414.33	5.953	458.00	5.550	501.67	5.203
21.67	14.660	65.33	64.985	109.00	143.212	152.67	149.528	196.33	112.549	240.00	97.138	283.67	7.770	327.33	6.864	371.00	6.387	414.67	5.949	458.33	5.546	502.00	5.201
22.00	15.093	65.67	66.559	109.33	150.148	153.00	148.897	196.67	111.700	240.33	94.708	284.00	7.732	327.67	6.860	371.33	6.383	415.00	5.946	458.67	5.544	502.33	5.200
22.33	15.517	66.00	68.028	109.67	157.012	153.33	148.776	197.00	110.840	240.67	92.665	284.33	7.697	328.00	6.856	371.67	6.380	415.33	5.943	459.00	5.541	502.67	5.200
22.67	15.923	66.33	69.204	110.00	163.920	153.67	149.028	197.33	109.987	241.00	90.825	284.67	7.668	328.33	6.853	372.00	6.376	415.67	5.939	459.33	5.538	503.00	5.200
23.00	16.307	66.67	70.162	110.33	170.474	154.00	149.614	197.67	109.128	241.33	89.185	285.00	7.636	328.67	6.849	372.33	6.373	416.00	5.936	459.67	5.536	503.33	5.199
23.33	16.675	67.00	70.950	110.67	176.795	154.33	150.524	198.00	108.259	241.67	87.669	285.33	7.607	329.00	6.845	372.67	6.369	416.33	5.933	460.00	5.533	503.67	5.197
23.67	17.019	67.33	71.473	111.00	182.996	154.67	151.642	198.33	107.389	242.00	86.287	285.67	7.583	329.33	6.842	373.00	6.366	416.67	5.930	460.33	5.530	504.00	5.195
24.00	17.339	67.67	71.758	111.33	188.584	155.00	153.051	198.67	106.502	242.33	85.075	286.00	7.558	329.67	6.838	373.33	6.362	417.00	5.926	460.67	5.528	504.33	5.193
24.33	17.640	68.00	71.881	111.67	193.754	155.33	154.752	199.00	105.605	242.67	83.947	286.33	7.536	330.00	6.834	373.67	6.359	417.33	5.923	461.00	5.525	504.67	5.192
24.67	17.910	68.33	71.833	112.00	198.574	155.67	156.535	199.33	104.722	243.00	82.892	286.67	7.520	330.33	6.830	374.00	6.355	417.67	5.920	461.33	5.523	505.00	5.190
25.00	18.152	68.67	71.608	112.33	202.476	156.00	158.457	199.67	103.835	243.33	81.937	287.00	7.502	330.67	6.826	374.33	6.352	418.00	5.917	461.67	5.520	505.33	5.188
25.33	18.375	69.00	71.252	112.67	205.865	156.33	160.564	200.00	102.938	243.67	81.041	287.33	7.481	331.00	6.822	374.67	6.347	418.33	5.914	462.00	5.517	505.67	5.185
25.67	18.573	69.33	70.815	113.00	208.844	156.67	162.771	200.33	102.167	244.00	80.205	287.67	7.461	331.33	6.817	375.00	6.343	418.67	5.911	462.33	5.515	506.00	5.183
26.00	18.745	69.67	70.305	113.33	210.768	157.00	165.056	200.67	101.488	244.33	79.427	288.00	7.446	331.67	6.813	375.33	6.341	419.00	5.907	462.67	5.512	506.33	5.181
26.33	18.888	70.00	69.700	113.67	212.035	157.33	167.296	201.00	100.861	244.67	78.689	288.33	7.432	332.00	6.810	375.67	6.338	419.33	5.903	463.00	5.510	506.67	5.179
26.67	19.014	70.33	69.087	114.00	212.767	157.67	169.555	201.33	100.528	245.00	77.989	288.67	7.418	332.33	6.806	376.00	6.335	419.67	5.901	463.33	5.507	507.00	5.177
27.00	19.119	70.67	68.441	114.33	212.596	158.00	171.818	201.67	100.344	245.33	77.333	289.00	7.401	332.67	6.802	376.33	6.331	420.00	5.898	463.67	5.504	507.33	5.174
27.33	19.203	71.00	67.759	114.67	211.977	158.33	173.865	202.00	100.301	245.67	76.698	289.33	7.386	333.00	6.798	376.67	6.328	420.33	5.895	464.00	5.501	507.67	5.172
27.67	19.268	71.33	67.096	115.00	210.842	158.67	175.871	202.33	100.608	246.00	76.079	289.67	7.375	333.33	6.794	377.00	6.324	420.67	5.892	464.33	5.498	508.00	5.170
28.00	19.304	71.67	66.429	115.33	209.067	159.00	177.866	202.67	101.055	246.33	75.480	290.00	7.364	333.67	6.790	377.33	6.321	421.00	5.888	464.67	5.494	508.33	5.168
28.33	19.330	72.00	65.752	115.67	207.215	159.33	179.511	203.00	101.640	246.67	74.892	290.33	7.354	334.00	6.787	377.67	6.318	421.33	5.885	465.00	5.491	508.67	5.159
28.67	19.352	72.33	65.116	116.00	205.258	159.67	181.007	203.33	102.490	247.00	74.317	290.67	7.344	334.33	6.783	378.00	6.314	421.67	5.882	465.33	5.490	509.00	5.150
29.00	19.357	72.67	64.492	116.33	203.093	160.00	182.440	203.67	103.476	247.33	73.756	291.00	7.335	334.67	6.779	378.33	6.311	422.00	5.879	465.67	5.488	509.33	5.149
29.33	19.338	73.00	63.871	116.67	200.899	160.33	183.453	204.00	104.615	247.67	73.200	291.33	7.323	335.00	6.776	378.67	6.307	422.33	5.875	466.00	5.484	509.67	5.148
29.67	19.306	73.33	63.295	117.00	198.750	160.67	184.228	204.33	105.919	248.00	72.643	291.67	7.312	335.33	6.772	379.00	6.304	422.67	5.872	466.33	5.481	510.00	5.147
30.00	19.262	73.67	62.737	117.33	196.720	161.00	184.922	204.67	107.332	248.33	72.089	292.00	7.305	335.67	6.768	379.33	6.300	423.00	5.869	466.67	5.478	510.33	5.148
30.33	19.209	74.00	62.193	117.67	194.692	161.33	185.174	205.00	108.845	248.67	71.536	292.33	7.298	336.00	6.765	379.67	6.297	423.33	5.866	467.00	5.475	510.67	5.147
30.67	19.147	74.33	61.690	118.00	192.789	161.67	185.129	205.33	110.355	249.00	70.984	292.67	7.293	336.33	6.761	380.00	6.294	423.67	5.862	467.33	5.472	511.00	5.144
31.00	19.065	74.67	61.208	118.33	191.114	162.00	184.825	205.67	111.892	249.33	70.420	293.00	7.289	336.67	6.757	380.33	6.290	424.00	5.859	467.67	5.469	511.33	5.142
31.33	19.006	75.00	60.740	118.67	189.432	162.33	183.971	206.00	113.466	249.67	69.835	293.33	7.283	337.00	6.754	380.67	6.287	424.33	5.856	468.00	5.466	511.67	5.141
31.67	18.959	75.33	60.307	119.00	187.896	162.67	182.956	206.33	114.919	250.00	69.249	293.67	7.276	337.33	6.748	381.00	6.282	424.67	5.853	468.33	5.463	512.00	5.139
32.00	18.903	75.67	59.887	119.33	186.628	163.00	181.817	206.67	116.314	250.33	68.671	294.00	7.270	337.67	6.744	381.33	6.278	425.00	5.850	468.67	5.460	512.33	5.138
32.33	18.888	76.00	59.484	119.67	185.347	163.33	180.313	207.00	117.677	250.67	68.098	294.33	7.264	338.00	6.741	381.67	6.276	425.33	5.847	469.00	5.457	512.67	5.136
32.67	18.905	76.33	59.109	120.00	184.142	163.67	178.711	207.33	118.838	251.00	67.510	294.67	7.258	338.33	6.737	382.00	6.273	425.67	5.842	469.33	5.455	513.00	5.134
33.00	18.934	76.67	58.739	120.33	183.220	164.00	176.994	207.67	119.892	251.33	66.929	295.00	7.249	338.67	6.733	382.33	6.270	426.00	5.839	469.67	5.452	513.33	5.132
33.33	19.030	77.00	58.382	120.67	182.338	164.33	175.021	208.00	120.877	251.67	66.343	295.33	7.240	339.00	6.729	382.67	6.266	426.33	5.837	470.00	5.450	513.67	5.130
33.67	19.163	77.33	58.063	121.00	181.334	164.67	173.024	208.33	121.610	252.00	65.763	295.67	7.235	339.33	6.725	383.00	6.263	426.67	5.833	470.33	5.447	514.00	5.127
34.00	19.325	77.67	57.740	121.33	180.432	165.00	171.042	208.67	122.161	252.33	65.189	296.00	7.229	339.67	6.721	383.33	6.260	427.00	5.830	470.67	5.445	514.33	5.125
34.33	19.562	78.00	57.431	121.67	179.660	165.33	168.969	209.00	122.568	252.67	64.619	296.33	7.224	340.00	6.718	383.67	6.256	427.33	5.827	471.00	5.442	514.67	5.123
34.67	19.852	78.33	57.170	122.00	178.868	165.67	166.971	209.33	122.700	253.00	64.054	296.67	7.219	340.33	6.714	384.00	6.253	427.67	5.824	471.33	5.434	515.00	5.121
35.00	20.195	78.67	56.920	122.33	178.084	166.00	165.100	209.67	122.654	253.33	63.495	297.00	7.215	340.67	6.711	384.33	6.250	428.00	5.821	471.67	5.426	515.33	5.119
35.33	20.611	79.00	56.667	122.67	177.228	166.33	163.234	210.00	122.449	253.67	62.940	297.33	7.210	341.00	6.707	384.67	6.246	428.33	5.818	472.00	5.424	515.67	5.117
35.67	21.071	79.33	56.545	123.00	176.291	166.67	161.392	210.33	121.936	254.00	62.386	297.67	7.205	341.33	6.704	385.00	6.243	428.67	5.814	472.33	5.423	516.00	5.114
36.00	21.556	79.67	56.497	123.33	175.510	167.00	159.632	210.67	121.283	254.33	61.835	298.00	7.201	341.67	6.700	385.33	6.240	429.00	5.811	472.67	5.422	516.33	5.105
36.33	22.093	80.00	56.489	123.67	174.748	167.33	157.953	211.00	120.510	254.67	61.287	298.33	7.196	342.00	6.697	385.67	6.237	429.33	5.808	473.00	5.422	516.67	5.097
36.67	22.689	80.33	56.746	124.00	173.774	167.67	156.376	211.33	119.502	255.00	60.745	298.67	7.192	342.33	6.693	386.00	6.233	429.67	5.805	473.33	5.421	517.00	5.096
37.00	23.341	80.67	57.164	124.33	172.872	168.00	154.879	211.67	118.371	255.33	60.205	299.00	7.188	342.67	6.690	386.33	6.230	430.00	5.801	473.67	5.418	517.33	5.095
37.33	24.039	81.00	57.690	124.67	172.018	168.33	153.371	212.00	117.142	255.67	59.666	299.33	7.185	343.00	6.686	386.67	6.226	430.33	5.798	474.00	5.416	517.67	5.096
37.67	24.793	81.33	58.546	125.00	171.002	168.67	151.913	212.33	115.826	256.00	59.130	299.67	7.182	343.33	6.680	387.00	6.223	430.67	5.795	474.33	5.413	518.00	5.095
38.00	25.611	81.67	59.572	125.33	169.938	169.00	150.552	212.67	114.473	256.33	58.597	300.00	7.181	343.67	6.675	387.33	6.218	431.00	5.792	474.67	5.410	518.33	5.092
38.33	26.479	82.00	60.692	125.67	168.837	169.33	149.192	213.00	113.073	256.67	58.067	300.33	7.174	344.00	6.674	387.67	6.215	431.33	5.791	475.00	5.408	518.67	5.090
38.67	27.418	82.33	62.048	126.00	167.659	169.67	147.893	213.33	111.682	257.00	57.543	300.67	7.167	344.33	6.671	388.00	6.212	431.67	5.786	475.33	5.405	519.00	5.089
39.00	28.427	82.67	63.511	126.33	166.451	170.00	146.686	213.67	110.288	257.33	57.022	301.00	7.163	344.67	6.667	388.33	6.209	432.00	5.781	475.67	5.403	519.33	5.087
39.33	29.459	83.00	65.048	126.67	165.199	170.33	145.489	214.00	108.870	257.67	56.506	301.33	7.159	345.00	6.663	388.67	6.206	432.33	5.778	476.00	5.400	519.67	5.086
39.67	30.553	83.33	66.720	127.00	163.889	170.67	144.283	214.33	107.524	258.00	55.992	301.67	7.155	345.33	6.659	389.00	6.203	432.67	5.775	476.33	5.398	520.00	5.084
40.00	31.720	83.67	68.477	127.33	162.832	171.00	143.086	214.67	106.212	258.33	55.476	302.00	7.151	345.67	6.655	389.33	6.199	433.00	5.772	476.67	5.396	520.33	5.083
40.33	32.832	84.00	70.348	127.67	161.930	171.33	141.947	215.00	104.916	258.67	54.954	302.33	7.147	346.00	6.652	389.67	6.196	433.33	5.769	477.00	5.394	520.67	5.081
40.67	33.916	84.33	72.303	128.00	161.110	171.67	140.809	215.33	103.719	259.00	54.425	302.67	7.143	346.33	6.648	390.00	6.193	433.67	5.766	477.33	5.391	521.00	5.079
41.00	35.041	84.67	74.355	128.33	160.830	172.00	139.650	215.67	102.580	259.33	53.887	303.00	7.139	346.67	6.644	390.33	6.189	434.00	5.763	477.67	5.389	521.33	5.077
41.33	36.139	85.00	76.610	128.67	160.880	172.33	138.515	216.00	101.477	259.67	53.377	303.33	7.135	347.00	6.641	390.67	6.186	434.33	5.760	478.00	5.387	521.67	5.074
41.67	37.253	85.33	78.993	129.00	161.086	172.67	137.371	216.33	100.472	260.00	52.863	303.67	7.131	347.33	6.637	391.00	6.183	434.67	5.757	478.33	5.377	522.00	5.072
42.00	38.321	85.67	81.517	129.33	161.880	173.00	136.196	216.67	99.521	260.33	52.355	304.00	7.127	347.67	6.634	391.33	6.180	435.00	5.754	478.67	5.368	522.33	5.070
42.33	39.233	86.00	84.216	129.67	163.095	173.33	135.009	217.00	98.610	260.67	51.848	304.33	7.123	348.00	6.630	391.67	6.176	435.33	5.751	479.00	5.366	522.67	5.068
42.67	40.084	86.33	86.934	130.00	164.605	173.67	133.812	217.33	97.760	261.00	51.314	304.67	7.119	348.33	6.627	392.00	6.173	435.67	5.747	479.33	5.365	523.00	5.066
43.00	40.897	86.67	89.715	130.33	166.631	174.00	132.608	217.67	96.972	261.33	50.784	305.00	7.115	348.67	6.623	392.33	6.170	436.00	5.744	479.67	5.364	523.33	5.064
43.33	41.626	87.00	92.510	130.67	168.988	174.33	131.399	218.00	96.240	261.67	50.269	305.33	7.112	349.00	6.620	392.67	6.167	436.33	5.741	480.00	5.362	523.67	5.061

TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
524.00	5.053	567.67	4.766	611.33	4.476	655.00	4.170	698.67	3.886	742.33	3.626	786.00	3.026	829.67	2.312	873.33	0.482	917.00	0.009
524.33	5.044	568.00	4.765	611.67	4.474	655.33	4.168	699.00	3.884	742.67	3.625	786.33	3.021	830.00	2.308	873.67	0.471	917.33	0.009
524.67	5.044	568.33	4.763	612.00	4.472	655.67	4.165	699.33	3.882	743.00	3.623	786.67	3.015	830.33	2.303	874.00	0.459	917.67	0.009
525.00	5.044	568.67	4.761	612.33	4.470	656.00	4.163	699.67	3.881	743.33	3.622	787.00	3.008	830.67	2.298	874.33	0.448	918.00	0.008
525.33	5.043	569.00	4.759	612.67	4.468	656.33	4.161	700.00	3.879	743.67	3.620	787.33	3.001	831.00	2.293	874.67	0.438	918.33	0.008
525.67	5.041	569.33	4.757	613.00	4.461	656.67	4.159	700.33	3.877	744.00	3.619	787.67	2.995	831.33	2.288	875.00	0.427	918.67	0.008
526.00	5.039	569.67	4.755	613.33	4.455	657.00	4.153	700.67	3.876	744.33	3.617	788.00	2.990	831.67	2.284	875.33	0.417	919.00	0.007
526.33	5.037	570.00	4.747	613.67	4.453	657.33	4.147	701.00	3.874	744.67	3.616	788.33	2.984	832.00	2.279	875.67	0.407	919.33	0.007
526.67	5.036	570.33	4.741	614.00	4.452	657.67	4.146	701.33	3.872	745.00	3.614	788.67	2.977	832.33	2.274	876.00	0.397	919.67	0.007
527.00	5.035	570.67	4.741	614.33	4.450	658.00	4.144	701.67	3.870	745.33	3.612	789.00	2.969	832.67	2.268	876.33	0.387	920.00	0.007
527.33	5.033	571.00	4.740	614.67	4.448	658.33	4.143	702.00	3.868	745.67	3.611	789.33	2.964	833.00	2.264	876.67	0.377	920.33	0.006
527.67	5.032	571.33	4.738	615.00	4.446	658.67	4.141	702.33	3.863	746.00	3.609	789.67	2.959	833.33	2.259	877.00	0.368	920.67	0.006
528.00	5.030	571.67	4.736	615.33	4.445	659.00	4.139	702.67	3.858	746.33	3.607	790.00	2.953	833.67	2.254	877.33	0.359	921.00	0.006
528.33	5.028	572.00	4.734	615.67	4.443	659.33	4.138	703.00	3.857	746.67	3.605	790.33	2.946	834.00	2.248	877.67	0.350	921.33	0.006
528.67	5.026	572.33	4.733	616.00	4.441	659.67	4.136	703.33	3.855	747.00	3.604	790.67	2.939	834.33	2.242	878.00	0.341	921.67	0.006
529.00	5.024	572.67	4.731	616.33	4.439	660.00	4.134	703.67	3.854	747.33	3.602	791.00	2.933	834.67	2.237	878.33	0.333	922.00	0.005
529.33	5.022	573.00	4.729	616.67	4.437	660.33	4.132	704.00	3.852	747.67	3.600	791.33	2.928	835.00	2.232	878.67	0.325	922.33	0.005
529.67	5.020	573.33	4.727	617.00	4.435	660.67	4.130	704.33	3.851	748.00	3.598	791.67	2.922	835.33	2.226	879.00	0.316	922.67	0.005
530.00	5.018	573.67	4.726	617.33	4.433	661.00	4.128	704.67	3.849	748.33	3.594	792.00	2.915	835.67	2.219	879.33	0.308	923.00	0.005
530.33	5.015	574.00	4.724	617.67	4.431	661.33	4.125	705.00	3.847	748.67	3.590	792.33	2.908	836.00	2.214	879.67	0.301	923.33	0.005
530.67	5.013	574.33	4.722	618.00	4.429	661.67	4.123	705.33	3.845	749.00	3.588	792.67	2.903	836.33	2.208	880.00	0.293	923.67	0.004
531.00	5.011	574.67	4.720	618.33	4.427	662.00	4.121	705.67	3.844	749.33	3.587	793.00	2.897	836.67	2.200	880.33	0.285	924.00	0.004
531.33	5.009	575.00	4.718	618.67	4.425	662.33	4.119	706.00	3.842	749.67	3.585	793.33	2.892	837.00	2.193	880.67	0.278	924.33	0.004
531.67	5.000	575.33	4.717	619.00	4.423	662.67	4.117	706.33	3.840	750.00	3.584	793.67	2.885	837.33	2.187	881.00	0.271	924.67	0.004
532.00	4.993	575.67	4.715	619.33	4.416	663.00	4.111	706.67	3.838	750.33	3.582	794.00	2.878	837.67	2.180	881.33	0.264	925.00	0.004
532.33	4.994	576.00	4.713	619.67	4.410	663.33	4.106	707.00	3.837	750.67	3.580	794.33	2.873	838.00	2.172	881.67	0.257	925.33	0.004
532.67	4.992	576.33	4.711	620.00	4.409	663.67	4.104	707.33	3.835	751.00	3.578	794.67	2.867	838.33	2.164	882.00	0.250	925.67	0.004
533.00	4.990	576.67	4.709	620.33	4.408	664.00	4.103	707.67	3.833	751.33	3.576	795.00	2.862	838.67	2.156	882.33	0.244	926.00	0.003
533.33	4.988	577.00	4.707	620.67	4.406	664.33	4.101	708.00	3.832	751.67	3.575	795.33	2.855	839.00	2.148	882.67	0.237	926.33	0.003
533.67	4.987	577.33	4.705	621.00	4.405	664.67	4.099	708.33	3.830	752.00	3.573	795.67	2.848	839.33	2.139	883.00	0.231	926.67	0.003
534.00	4.985	577.67	4.698	621.33	4.403	665.00	4.098	708.67	3.825	752.33	3.570	796.00	2.843	839.67	2.131	883.33	0.225	927.00	0.003
534.33	4.984	578.00	4.692	621.67	4.401	665.33	4.096	709.00	3.820	752.67	3.568	796.33	2.838	840.00	2.122	883.67	0.219	927.33	0.003
534.67	4.983	578.33	4.692	622.00	4.399	665.67	4.094	709.33	3.819	753.00	3.566	796.67	2.832	840.33	2.112	884.00	0.213	927.67	0.003
535.00	4.981	578.67	4.691	622.33	4.397	666.00	4.092	709.67	3.817	753.33	3.564	797.00	2.825	840.67	2.104	884.33	0.208	928.00	0.003
535.33	4.979	579.00	4.689	622.67	4.395	666.33	4.091	710.00	3.816	753.67	3.562	797.33	2.818	841.00	2.094	884.67	0.202	928.33	0.003
535.67	4.977	579.33	4.687	623.00	4.393	666.67	4.089	710.33	3.814	754.00	3.557	797.67	2.813	841.33	2.083	885.00	0.197	928.67	0.003
536.00	4.976	579.67	4.685	623.33	4.391	667.00	4.087	710.67	3.813	754.33	3.552	798.00	2.808	841.67	2.073	885.33	0.192	929.00	0.002
536.33	4.974	580.00	4.684	623.67	4.389	667.33	4.085	711.00	3.811	754.67	3.550	798.33	2.803	842.00	2.062	885.67	0.186	929.33	0.002
536.67	4.972	580.33	4.682	624.00	4.387	667.67	4.083	711.33	3.809	755.00	3.548	798.67	2.796	842.33	2.051	886.00	0.181	929.67	0.002
537.00	4.970	580.67	4.680	624.33	4.385	668.00	4.081	711.67	3.807	755.33	3.545	799.00	2.789	842.67	2.040	886.33	0.177	930.00	0.002
537.33	4.968	581.00	4.678	624.67	4.383	668.33	4.079	712.00	3.806	755.67	3.543	799.33	2.784	843.00	2.028	886.67	0.172	930.33	0.002
537.67	4.966	581.33	4.676	625.00	4.381	668.67	4.077	712.33	3.804	756.00	3.540	799.67	2.779	843.33	2.016	887.00	0.167	930.67	0.002
538.00	4.964	581.67	4.675	625.33	4.379	669.00	4.075	712.67	3.802	756.33	3.537	800.00	2.774	843.67	2.004	887.33	0.163	931.00	0.002
538.33	4.961	582.00	4.673	625.67	4.377	669.33	4.069	713.00	3.800	756.67	3.534	800.33	2.767	844.00	1.991	887.67	0.158	931.33	0.002
538.67	4.959	582.33	4.671	626.00	4.370	669.67	4.064	713.33	3.799	757.00	3.532	800.67	2.760	844.33	1.978	888.00	0.154	931.67	0.002
539.00	4.957	582.67	4.669	626.33	4.364	670.00	4.062	713.67	3.797	757.33	3.529	801.00	2.755	844.67	1.965	888.33	0.150	932.00	0.002
539.33	4.949	583.00	4.668	626.67	4.363	670.33	4.061	714.00	3.795	757.67	3.526	801.33	2.750	845.00	1.952	888.67	0.146	932.33	0.002
539.67	4.942	583.33	4.666	627.00	4.362	670.67	4.059	714.33	3.793	758.00	3.520	801.67	2.745	845.33	1.938	889.00	0.142	932.67	0.002
540.00	4.942	583.67	4.664	627.33	4.360	671.00	4.057	714.67	3.792	758.33	3.514	802.00	2.739	845.67	1.923	889.33	0.138	933.00	0.002
540.33	4.941	584.00	4.662	627.67	4.358	671.33	4.056	715.00	3.790	758.67	3.511	802.33	2.732	846.00	1.908	889.67	0.134	933.33	0.001
540.67	4.939	584.33	4.660	628.00	4.357	671.67	4.054	715.33	3.785	759.00	3.507	802.67	2.727	846.33	1.893	890.00	0.130	933.67	0.001
541.00	4.937	584.67	4.659	628.33	4.355	672.00	4.052	715.67	3.780	759.33	3.504	803.00	2.722	846.67	1.877	890.33	0.127	934.00	0.001
541.33	4.935	585.00	4.657	628.67	4.353	672.33	4.051	716.00	3.779	759.67	3.501	803.33	2.717	847.00	1.861	890.67	0.123	934.33	0.001
541.67	4.934	585.33	4.649	629.00	4.351	672.67	4.049	716.33	3.778	760.00	3.498	803.67	2.710	847.33	1.846	891.00	0.120	934.67	0.001
542.00	4.933	585.67	4.643	629.33	4.349	673.00	4.047	716.67	3.776	760.33	3.494	804.00	2.704	847.67	1.830	891.33	0.116	935.00	0.001
542.33	4.931	586.00	4.643	629.67	4.347	673.33	4.046	717.00	3.775	760.67	3.490	804.33	2.699	848.00	1.814	891.67	0.113	935.33	0.001
542.67	4.929	586.33	4.642	630.00	4.345	673.67	4.044	717.33	3.773	761.00	3.484	804.67	2.694	848.33	1.798	892.00	0.110	935.67	0.001
543.00	4.927	586.67	4.640	630.33	4.343	674.00	4.042	717.67	3.771	761.33	3.477	805.00	2.689	848.67	1.781	892.33	0.107	936.00	0.001
543.33	4.926	587.00	4.638	630.67	4.341	674.33	4.040	718.00	3.769	761.67	3.474	805.33	2.682	849.00	1.764	892.67	0.103	936.33	0.001
543.67	4.924	587.33	4.637	631.00	4.339	674.67	4.038	718.33	3.768	762.00	3.470	805.67	2.676	849.33	1.746	893.00	0.100	936.67	0.001
544.00	4.922	587.67	4.635	631.33	4.337	675.00	4.036	718.67	3.766	762.33	3.466	806.00	2.671	849.67	1.728	893.33	0.098	937.00	0.001
544.33	4.920	588.00	4.633	631.67	4.335	675.33	4.034	719.00	3.764	762.67	3.462	806.33	2.666	850.00	1.710	893.67	0.095	937.33	0.001
544.67	4.918	588.33	4.631	632.00	4.333	675.67	4.028	719.33	3.762	763.00	3.458	806.67	2.661	850.33	1.692	894.00	0.092	937.67	0.001
545.00	4.916	588.67	4.629	632.33	4.327	676.00	4.023	719.67	3.761	763.33	3.453	807.00	2.655	850.67	1.674	894.33	0.089	938.00	0.001
545.33	4.914	589.00	4.628	632.67	4.321	676.33	4.022	720.00	3.759	763.67	3.447	807.33	2.649	851.00	1.655	894.67	0.087	938.33	0.001
545.67	4.912	589.33	4.626	633.00	4.320	676.67	4.020	720.33	3.757	764.00	3.440	807.67	2.644	851.33	1.637	895.00	0.084	938.67	0.001
546.00	4.910	589.67	4.624	633.33	4.318	677.00	4.019	720.67	3.755	764.33	3.436	808.00	2.639	851.67	1.618	895.33	0.082	939.00	0.001
546.33	4.908	590.00	4.622	633.67	4.317	677.33	4.017	721.00	3.754	764.67	3.432	808.33	2.634	852.00	1.599	895.67	0.079	939.33	0.001
546.67	4.906	590.33	4.620	634.00	4.315	677.67	4.015	721.33	3.752	765.00	3.427	808.67	2.628	852.33	1.581	896.00	0.077	939.67	0.001
547.00	4.898	590.67	4.619	634.33	4.313	678.00	4.014	721.67	3.750	765.33	3.422	809.00	2.621	852.67	1.563	896.33	0.075	940.00	0.001
547.33	4.891	591.00	4.617	634.67	4.312	678.33	4.012	722.00	3.745	765.67	3.418	809.33	2.617	853.00	1.546	896.67	0.072	940.33	0.001
547.67	4.891	591.33	4.615	635.00	4.310	678.67	4.010	722.33	3.741	766.00	3.411	809.67	2.612	853.33	1.528	897.00	0.070	940.67	0.001
548.00	4.890	591.67	4.613	635.33	4.308	679.00	4.009	722.67	3.740	766.33	3.404	810.00	2.607	853.67	1.510	897.33	0.068	941.00	0.001
548.33	4.888	592.00	4.611	635.67	4.306	679.33	4.007	723.00	3.738	766.67	3.399	810.33	2.601	854.00	1.491	897.67	0.066	941.33	0.001
548.67	4.886	592.33	4.609	636.00	4.304	679.67	4.005	723.33	3.737	767.00	3.393	810.67	2.595	854.33	1.473	898.00	0.064	941.67	0.001
549.00	4.884	592.67	4.602	636.33	4.302	680.00	4.003	723.67	3.735	767.33	3.388	811.00	2.590	854.67	1.455	898.33	0.062	942.00	0.001
549.33	4.883	593.00	4.596	636.67	4.300	680.33	4.002	724.00	3.734	767.67	3.383	811.33	2.585	855.00	1.436	898.67	0.060	942.33	0.001
549.67	4.882	593.33	4.596	637.00	4.298	680.67	4.000	724.33	3.732	768.00	3.376	811.67	2.580	855.33	1.418	899.00	0.058	942.67	0.001
550.00	4.880	593.67	4.595	637.33	4.296	681.00	3.998	724.67	3.730	768.33	3.368	812.00	2.574	855.67	1.399	899.33	0.056	943.00	0.001
550.33	4.878	594.00	4.593	637.67	4.294	681.33	3.996	725.00	3.729	768.67	3.363	812.33	2.568	856.00	1.380	899.67	0.055	943.33	0.000
550.67	4.876	594.33	4.591	638.00	4.292	681.67	3.994	725.33	3.727	769.00	3.357	812.67	2.563	856.33	1.361	900.00	0.053	943.67	0.000
551.00	4.874	594.67	4.589	638.33	4.290	682.00	3.992	725.67	3.725	769.33	3.352	813.00	2.559	856.67	1.343	900.33	0.051	944.00	0.000
551.33	4.873	595.00	4.587	638.67	4.288	682.33	3.987	726.00	3.723	769.67	3.347	813.33	2.554	857.00	1.324	900.67	0.050	944.33	0.000
551.67	4.871	595.33	4.585	639.00	4.282	682.67	3.981	726.33	3.722	770.00	3.338	813.67	2.548	857.33	1.305	901.00	0.048	944.67	0.000
552.00	4.869	595.67	4.583	639.33	4.276	683.00	3.980	726.67	3.720	770.33	3.330	814.00	2.542	857.67	1.286	901.33	0.047	945.00	0.000
552.33	4.867	596.00	4.581	639.67	4.274	683.33	3.978	727.00	3.718	770.67	3.325	814.33	2.537	858.00	1.267	901.67	0.045	945.33	0.000
552.67	4.865	596.33	4.579	640.00	4.273	683.67	3.977	727.33	3.716	771.00	3.319	814.67	2.532	858.33	1.248	902.00	0.044	945.67	0.000
553.00	4.863	596.67	4.578	640.33	4.272	684.00	3.975	727.67	3.715	771.33	3.314	815.00	2.528	858.67	1.229	902.33	0.042	946.00	0.000
553.33	4.861	597.00	4.576	640.67	4.270	684.33	3.973	728.00	3.713	771.67	3.308	815.33	2.522	859.00	1.210	902.67	0.041	946.33	0.000
553.67	4.859	597.33	4.574	641.00	4.268	684.67	3.972	728.33	3.711	772.00	3.299	815.67	2.516	859.33	1.191	903.00	0.040	946.67	0.000
554.00	4.857	597.67	4.572	641.33	4.266	685.00	3.970	728.67	3.707	772.33	3.291	816.00	2.511	859.67	1.172	903.33	0.038	947.00	0.000
554.33	4.855	598.00	4.570	641.67	4.264	685.33	3.968	729.00	3.702	772.67	3.286	816.33	2.507	860.00	1.153	903.67	0.037	947.33	0.000
554.67	4.847	598.33	4.568	642.00	4.263	685.67	3.967	729.33	3.701	773.00	3.280	816.67	2.502	860.33	1.133	904.00	0.036	947.67	0.000
555.00	4.840	598.67	4.566	642.33	4.261	686.00	3.965	729.67	3.700	773.33	3.274	817.00	2.496	860.67	1.114	904.33	0.035	948.00	0.000
555.33	4.840	599.00	4.564	642.67	4.259	686.33	3.963	730.00	3.698	773.67	3.266	817.33	2.490	861.00	1.094	904.67	0.034	948.33	0.000
555.67	4.839	599.33	4.561	643.00	4.257	686.67	3.962	730.33	3.697	774.00	3.258	817.67	2.486	861.33	1.075	905.00	0.033	948.67	0.000
556.00	4.837	599.67	4.555	643.33	4.255	687.00	3.960	730.67	3.695	774.33	3.253	818.00	2.481	861.67	1.055	905.33	0.031	949.00	0.000
556.33	4.836	600.00	4.549	643.67	4.253	687.33	3.958	731.00	3.693	774.67	3.247	818.33	2.477	862.00	1.035	905.67	0.030	949.33	0.000
556.67	4.834	600.33	4.548	644.00	4.251	687.67	3.956	731.33	3.692	775.00	3.241	818.67	2.471	862.33	1.015	906.00	0.029	949.67	0.000
557.00	4.833	600.67	4.546	644.33	4.249	688.00	3.954	731.67	3.690	775.33	3.233	819.00	2.465	862.67	0.995	906.33	0.028	950.00	0.000
557.33	4.831	601.00	4.544	644.67	4.247	688.33	3.952	732.00	3.688	775.67	3.226	819.33	2.461	863.00	0.975	906.67	0.028	950.33	0.000
557.67	4.829	601.33	4.542	645.00	4.245	688.67	3.950	732.33	3.687	776.00	3.220	819.67	2.456	863.33	0.956	907.00	0.027	950.67	0.000
558.00	4.827	601.67	4.540	645.33	4.239	689.00	3.945	732.67	3.685	776.33	3.214	820.00	2.452	863.67	0.936	907.33	0.026	951.00	0.000
558.33	4.826	602.00	4.538	645.67	4.233	689.33	3.940	733.00	3.683	776.67	3.209	820.33	2.446	864.00	0.917	907.67	0.025	951.33	0.000
558.67	4.824	602.33	4.537	646.00	4.231	689.67	3.938	733.33	3.681	777.00	3.201	820.67	2.440	864.33	0.898	908.00	0.024	951.67	0.000
559.00	4.822	602.67	4.535	646.33	4.230	690.00	3.937	733.67	3.680	777.33	3.193	821.00	2.436	864.67	0.879	908.33	0.023	952.00	0.000
559.33	4.820	603.00	4.533	646.67	4.228	690.33	3.935	734.00	3.678	777.67	3.187	821.33	2.431	865.00	0.860	908.67	0.022	952.33	0.000
559.67	4.818	603.33	4.531	647.00	4.227	690.67	3.934	734.33	3.676	778.00	3.182	821.67	2.427	865.33	0.842	909.00	0.022	952.67	0.000
560.00	4.817	603.67	4.529	647.33	4.225	691.00	3.932	734.67	3.675	778.33	3.176	822.00	2.421	865.67	0.823	909.33	0.021	953.00	0.000
560.33	4.815	604.00	4.527	647.67	4.223	691.33	3.930	735.00	3.673	778.67	3.168	822.33	2.416	866.00	0.805	909.67	0.020	953.33	0.000
560.67	4.813	604.33	4.525	648.00	4.221	691.67	3.929	735.33	3.668	779.00	3.160	822.67	2.411	866.33	0.788	910.00	0.020	953.67	0.000
561.00	4.811	604.67	4.523	648.33	4.219	692.00	3.927	735.67	3.664	779.33	3.155	823.00	2.407	866.67	0.770	910.33	0.019	954.00	0.000
561.33	4.809	605.00	4.521	648.67	4.217	692.33	3.925	736.00	3.663	779.67	3.149	823.33	2.402	867.00	0.753	910.67	0.018	954.33	0.000
561.67	4.807	605.33	4.519	649.00	4.214	692.67	3.923	736.33	3.661	780.00	3.143	823.67	2.397	867.33	0.736	911.00	0.018	954.67	0.000
562.00	4.805	605.67	4.517	649.33	4.212	693.00	3.922	736.67	3.660	780.33	3.135	824.00	2.391	867.67	0.720	911.33	0.017	955.00	0.000
562.33	4.797	606.00	4.515	649.67	4.210	693.33	3.920	737.00	3.659	780.67	3.128	824.33	2.387	868.00	0.703	911.67	0.016	955.33	0.000
562.67	4.790	606.33	4.508	650.00	4.208	693.67	3.918	737.33	3.657	781.00	3.122	824.67	2.383	868.33	0.687	912.00	0.016	955.67	0.000
563.00	4.790	606.67	4.502	650.33	4.206	694.00	3.917	737.67	3.655	781.33	3.117	825.00	2.378	868.67	0.672	912.33	0.015	956.00	0.000
563.33	4.789	607.00	4.500	650.67	4.204	694.33	3.915	738.00	3.654	781.67	3.111	825.33	2.373	869.00	0.656	912.67	0.015	956.33	0.000
563.67	4.788	607.33	4.499	651.00	4.202	694.67	3.913	738.33	3.652	782.00	3.103	825.67	2.368	869.33	0.641	913.00	0.014	956.67	0.000
564.00	4.786	607.67	4.497	651.33	4.196	695.00	3.911	738.67	3.650	782.33	3.096	826.00	2.363	869.67	0.627	913.33	0.014	957.00	0.000
564.33	4.784	608.00	4.495	651.67	4.190	695.33	3.909	739.00	3.649	782.67	3.090	826.33	2.359	870.00	0.612	913.67	0.013	957.33	0.000
564.67	4.782	608.33	4.493	652.00	4.188	695.67	3.904	739.33	3.647	783.00	3.085	826.67	2.355	870.33	0.598	914.00	0.013	957.67	0.000
565.00	4.781	608.67	4.491	652.33	4.187	696.00	3.899	739.67	3.645	783.33	3.079	827.00	2.350	870.67	0.584	914.33	0.012	958.00	0.000
565.33	4.779	609.00	4.489	652.67	4.185	696.33	3.898	740.00	3.643	783.67	3.071	827.33	2.345	871.00	0.570	914.67	0.012	958.33	0.000
565.67	4.777	609.33	4.488	653.00	4.183	696.67	3.896	740.33	3.642	784.00	3.064	827.67	2.339	871.33	0.557	915.00	0.012	958.67	0.000
566.00	4.775	609.67	4.486	653.33	4.181	697.00	3.894	740.67	3.640	784.33	3.058	828.00	2.335	871.67	0.544	915.33	0.011	959.00	0.000
566.33	4.774	610.00	4.484	653.67	4.179	697.33	3.893	741.00	3.638	784.67	3.053	828.33	2.331	872.00	0.531	915.67	0.011	959.33	0.000
566.67	4.772	610.33	4.482	654.00	4.177	697.67	3.891	741.33	3.636	785.00	3.047	828.67	2.327	872.33	0.518	916.00	0.010	959.67	0.000
567.00	4.770	610.67	4.480	654.33	4.174	698.00	3.889	741.67	3.635	785.33	3.039	829.00	2.321	872.67	0.506	916.33	0.010	960.00	0.000
567.33	4.768	611.00	4.478	654.67	4.172	698.33	3.888	742.00	3.630	785.67	3.032	829.33	2.316	873.00	0.494	916.67	0.010	960.33	0.000

MO_DR (JR SPRING)



Hydrograph Statistics:

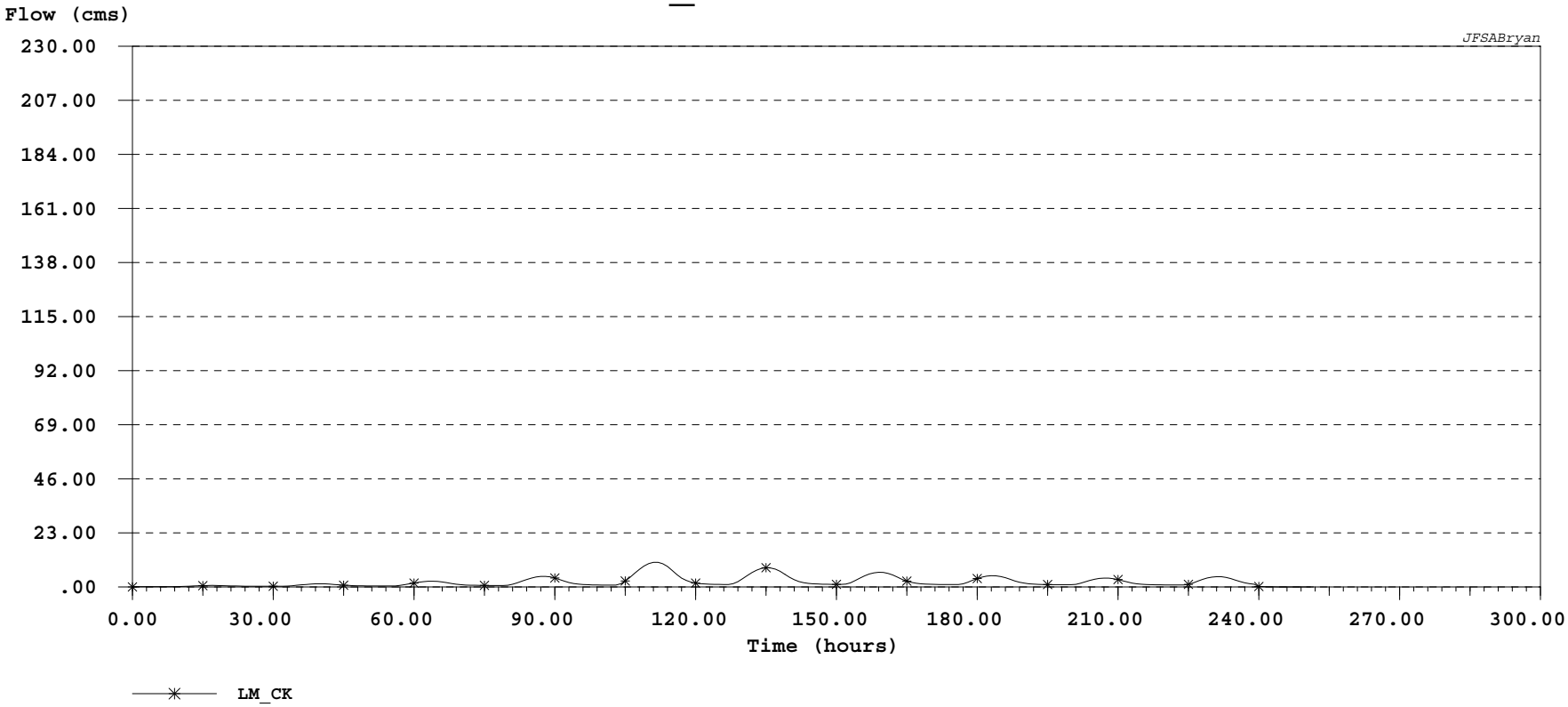
Legend	Filename & Comment	Time Step (min)	Drainage Area (ha)	Peak Flow (cms)	Time to Peak (hrs)	Runoff Volume (mm)	Runoff Volume (cu.m)	Duration of flow (hrs)	Average flow (cms)
——■——	H-MO_DR.100 : MO_DR	60.00	2737.00	26.915	112.000	186.01	5.091E+06	254.000	5.568

Hydrograph Table:

Hydrograph Filename : Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\JRSPRI~1\H-MO_DR.100
Comment in file : MO_DR

# TIME hrs	FLOW cms	# TIME hrs	FLOW cms	# TIME hrs	FLOW cms	# TIME hrs	FLOW cms	# TIME hrs	FLOW cms	# TIME hrs	FLOW cms	# TIME hrs	FLOW cms
0.00	0.000	41.00	3.510	82.00	3.905	123.00	3.709	164.00	10.346	205.00	7.693	246.00	0.059
1.00	0.254	42.00	3.367	83.00	5.501	124.00	3.384	165.00	8.337	206.00	8.767	247.00	0.034
2.00	0.252	43.00	3.064	84.00	7.204	125.00	3.176	166.00	6.686	207.00	9.454	248.00	0.019
3.00	0.250	44.00	2.679	85.00	8.813	126.00	3.041	167.00	5.439	208.00	9.701	249.00	0.011
4.00	0.247	45.00	2.305	86.00	10.160	127.00	2.981	168.00	4.547	209.00	9.490	250.00	0.005
5.00	0.245	46.00	1.989	87.00	11.105	128.00	3.499	169.00	3.934	210.00	8.837	251.00	0.003
6.00	0.243	47.00	1.747	88.00	11.540	129.00	5.087	170.00	3.524	211.00	7.792	252.00	0.001
7.00	0.241	48.00	1.570	89.00	11.396	130.00	7.636	171.00	3.253	212.00	6.580	253.00	0.000
8.00	0.290	49.00	1.446	90.00	10.645	131.00	10.715	172.00	3.076	213.00	5.447	254.00	0.000
9.00	0.366	50.00	1.362	91.00	9.337	132.00	13.874	173.00	2.959	214.00	4.514	255.00	0.000
10.00	0.465	51.00	1.304	92.00	7.770	133.00	16.736	174.00	2.880	215.00	3.808	256.00	0.000
11.00	0.596	52.00	1.265	93.00	6.283	134.00	19.001	175.00	2.825	216.00	3.301	257.00	0.000
12.00	0.763	53.00	1.237	94.00	5.051	135.00	20.449	176.00	2.803	217.00	2.951	258.00	0.000
13.00	0.962	54.00	1.216	95.00	4.114	136.00	20.931	177.00	3.336	218.00	2.715	259.00	0.000
14.00	1.176	55.00	1.212	96.00	3.442	137.00	20.374	178.00	4.614	219.00	2.558	260.00	0.000
15.00	1.379	56.00	1.278	97.00	2.979	138.00	18.780	179.00	6.345	220.00	2.453	261.00	0.000
16.00	1.539	57.00	1.581	98.00	2.668	139.00	16.239	180.00	8.182	221.00	2.382	262.00	0.000
17.00	1.628	58.00	2.184	99.00	2.463	140.00	13.291	181.00	9.850	222.00	2.333	263.00	0.000
18.00	1.623	59.00	2.987	100.00	2.329	141.00	10.534	182.00	11.155	223.00	2.296	264.00	0.000
19.00	1.534	60.00	3.867	101.00	2.239	142.00	8.268	183.00	11.976	224.00	2.282	265.00	0.000
20.00	1.395	61.00	4.718	102.00	2.184	143.00	6.555	184.00	12.245	225.00	2.724	266.00	0.000
21.00	1.248	62.00	5.449	103.00	2.240	144.00	5.331	185.00	11.937	226.00	3.866	267.00	0.000
22.00	1.120	63.00	5.982	104.00	3.178	145.00	4.492	186.00	11.069	227.00	5.486	268.00	0.000
23.00	1.018	64.00	6.256	105.00	5.422	146.00	3.932	187.00	9.700	228.00	7.241	269.00	0.000
24.00	0.943	65.00	6.230	106.00	8.726	147.00	3.565	188.00	8.119	229.00	8.848	270.00	0.000
25.00	0.889	66.00	5.885	107.00	12.655	148.00	3.327	189.00	6.643	230.00	10.111	271.00	0.000
26.00	0.851	67.00	5.249	108.00	16.754	149.00	3.172	190.00	5.430	231.00	10.910	272.00	0.000
27.00	0.824	68.00	4.475	109.00	20.592	150.00	3.069	191.00	4.513	232.00	11.179	273.00	0.000
28.00	0.805	69.00	3.735	110.00	23.778	151.00	3.008	192.00	3.856	233.00	10.898	274.00	0.000
29.00	0.791	70.00	3.119	111.00	25.975	152.00	3.201	193.00	3.403	234.00	10.085	275.00	0.000
30.00	0.781	71.00	2.648	112.00	26.915	153.00	4.183	194.00	3.099	235.00	8.797	276.00	0.000
31.00	0.772	72.00	2.309	113.00	26.428	154.00	6.014	195.00	2.897	236.00	7.308	277.00	0.000
32.00	0.819	73.00	2.073	114.00	24.457	155.00	8.326	196.00	2.764	237.00	5.918	278.00	0.000
33.00	0.962	74.00	1.914	115.00	21.097	156.00	10.723	197.00	2.675	238.00	4.776	279.00	0.000
34.00	1.243	75.00	1.807	116.00	17.100	157.00	12.886	198.00	2.613	239.00	3.913	280.00	0.000
35.00	1.635	76.00	1.736	117.00	13.323	158.00	14.580	199.00	2.569	240.00	1.128	281.00	0.000
36.00	2.085	77.00	1.687	118.00	10.201	159.00	15.643	200.00	2.544	241.00	0.718	282.00	0.000
37.00	2.541	78.00	1.653	119.00	7.834	160.00	15.980	201.00	2.796	242.00	0.449	283.00	0.000
38.00	2.954	79.00	1.664	120.00	6.143	161.00	15.549	202.00	3.614	243.00	0.276	284.00	0.000
39.00	3.279	80.00	1.897	121.00	4.983	162.00	14.365	203.00	4.896	244.00	0.167	285.00	0.000
40.00	3.475	81.00	2.637	122.00	4.211	163.00	12.499	204.00	6.343	245.00	0.100	286.00	0.000

LM_CK (JR SPRING)



Hydrograph Statistics:

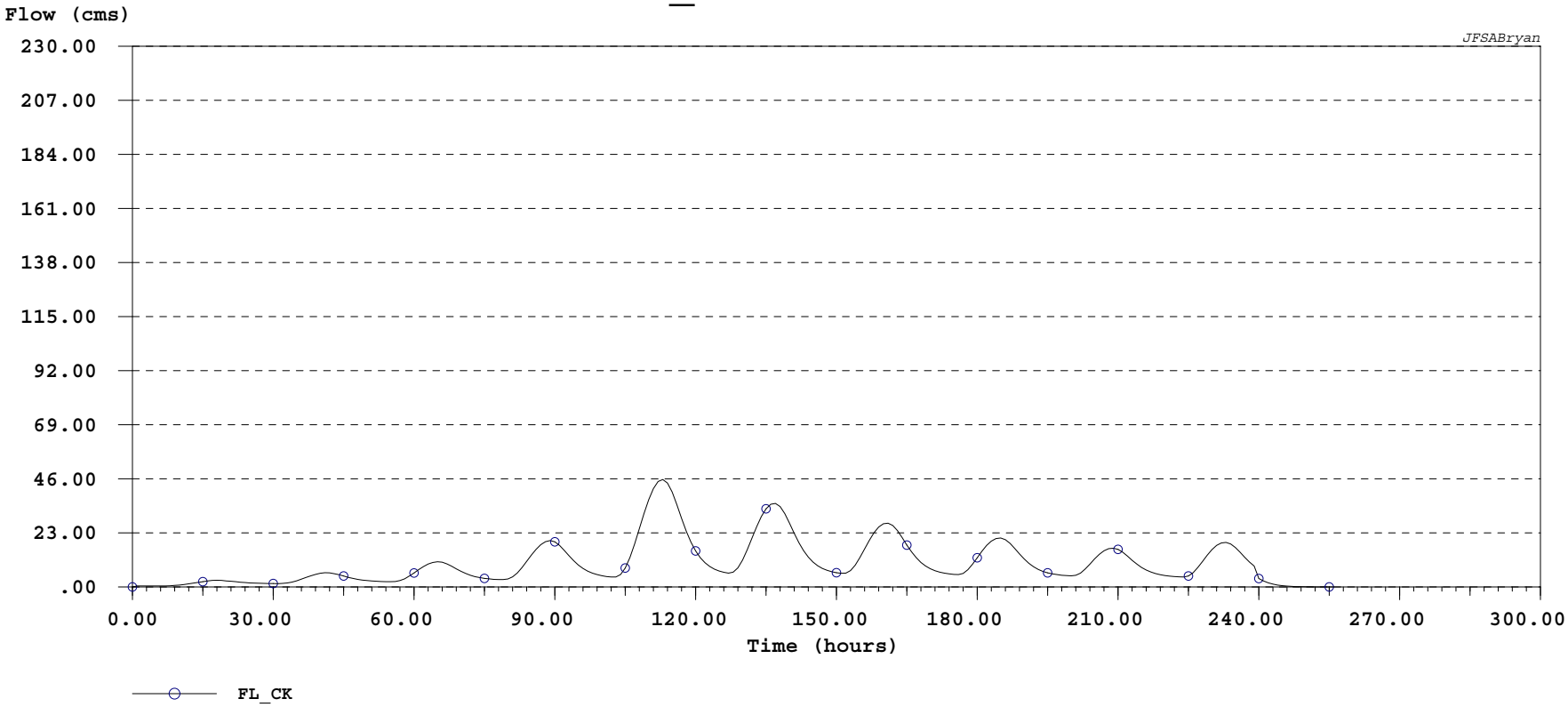
Legend	Filename & Comment	Time Step (min)	Drainage Area (ha)	Peak Flow (cms)	Time to Peak (hrs)	Runoff Volume (mm)	Runoff Volume (cu.m)	Duration of flow (hrs)	Average flow (cms)
——✳——	H-LM_CK.100 : LM_CK	60.00	1021.00	10.485	112.000	186.01	1.899E+06	251.000	2.102

Hydrograph Table:

Hydrograph Filename : Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\JRSPRI~1\H-LM_CK.100
Comment in file : LM_CK

# TIME hrs	FLOW cms	# TIME hrs	FLOW cms	# TIME hrs	FLOW cms	# TIME hrs	FLOW cms	# TIME hrs	FLOW cms	# TIME hrs	FLOW cms	# TIME hrs	FLOW cms
0.00	0.000	41.00	1.336	82.00	1.760	123.00	1.181	164.00	3.246	205.00	3.294	246.00	0.004
1.00	0.095	42.00	1.235	83.00	2.473	124.00	1.133	165.00	2.486	206.00	3.637	247.00	0.002
2.00	0.094	43.00	1.073	84.00	3.169	125.00	1.103	166.00	1.943	207.00	3.793	248.00	0.001
3.00	0.093	44.00	0.896	85.00	3.770	126.00	1.084	167.00	1.587	208.00	3.758	249.00	0.000
4.00	0.092	45.00	0.748	86.00	4.219	127.00	1.082	168.00	1.366	209.00	3.541	250.00	0.000
5.00	0.092	46.00	0.640	87.00	4.472	128.00	1.406	169.00	1.234	210.00	3.159	251.00	0.000
6.00	0.091	47.00	0.569	88.00	4.497	129.00	2.268	170.00	1.155	211.00	2.640	252.00	0.000
7.00	0.090	48.00	0.523	89.00	4.278	130.00	3.506	171.00	1.109	212.00	2.112	253.00	0.000
8.00	0.108	49.00	0.495	90.00	3.820	131.00	4.859	172.00	1.080	213.00	1.682	254.00	0.000
9.00	0.137	50.00	0.477	91.00	3.155	132.00	6.121	173.00	1.061	214.00	1.375	255.00	0.000
10.00	0.177	51.00	0.466	92.00	2.460	133.00	7.153	174.00	1.048	215.00	1.172	256.00	0.000
11.00	0.233	52.00	0.459	93.00	1.887	134.00	7.859	175.00	1.038	216.00	1.046	257.00	0.000
12.00	0.307	53.00	0.453	94.00	1.476	135.00	8.181	176.00	1.036	217.00	0.969	258.00	0.000
13.00	0.393	54.00	0.449	95.00	1.205	136.00	8.085	177.00	1.361	218.00	0.923	259.00	0.000
14.00	0.482	55.00	0.449	96.00	1.036	137.00	7.568	178.00	2.034	219.00	0.895	260.00	0.000
15.00	0.561	56.00	0.478	97.00	0.935	138.00	6.654	179.00	2.838	220.00	0.877	261.00	0.000
16.00	0.616	57.00	0.643	98.00	0.875	139.00	5.400	180.00	3.596	221.00	0.865	262.00	0.000
17.00	0.637	58.00	0.945	99.00	0.839	140.00	4.118	181.00	4.206	222.00	0.855	263.00	0.000
18.00	0.615	59.00	1.311	100.00	0.818	141.00	3.072	182.00	4.612	223.00	0.848	264.00	0.000
19.00	0.557	60.00	1.679	101.00	0.803	142.00	2.326	183.00	4.789	224.00	0.846	265.00	0.000
20.00	0.487	61.00	2.004	102.00	0.795	143.00	1.837	184.00	4.729	225.00	1.114	266.00	0.000
21.00	0.425	62.00	2.255	103.00	0.827	144.00	1.534	185.00	4.440	226.00	1.721	267.00	0.000
22.00	0.378	63.00	2.408	104.00	1.372	145.00	1.353	186.00	3.941	227.00	2.483	268.00	0.000
23.00	0.347	64.00	2.443	105.00	2.542	146.00	1.247	187.00	3.266	228.00	3.217	269.00	0.000
24.00	0.326	65.00	2.351	106.00	4.105	147.00	1.185	188.00	2.580	229.00	3.810	270.00	0.000
25.00	0.313	66.00	2.131	107.00	5.810	148.00	1.148	189.00	2.021	230.00	4.206	271.00	0.000
26.00	0.305	67.00	1.803	108.00	7.454	149.00	1.125	190.00	1.622	231.00	4.381	272.00	0.000
27.00	0.299	68.00	1.456	109.00	8.869	150.00	1.109	191.00	1.360	232.00	4.328	273.00	0.000
28.00	0.295	69.00	1.169	110.00	9.916	151.00	1.100	192.00	1.197	233.00	4.057	274.00	0.000
29.00	0.292	70.00	0.961	111.00	10.481	152.00	1.229	193.00	1.098	234.00	3.586	275.00	0.000
30.00	0.289	71.00	0.824	112.00	10.485	153.00	1.786	194.00	1.039	235.00	2.949	276.00	0.000
31.00	0.287	72.00	0.738	113.00	9.891	154.00	2.707	195.00	1.004	236.00	2.303	277.00	0.000
32.00	0.305	73.00	0.686	114.00	8.709	155.00	3.747	196.00	0.982	237.00	1.776	278.00	0.000
33.00	0.376	74.00	0.654	115.00	7.014	156.00	4.717	197.00	0.967	238.00	1.401	279.00	0.000
34.00	0.514	75.00	0.634	116.00	5.251	157.00	5.498	198.00	0.956	239.00	1.155	280.00	0.000
35.00	0.694	76.00	0.622	117.00	3.801	158.00	6.022	199.00	0.947	240.00	0.193	281.00	0.000
36.00	0.885	77.00	0.613	118.00	2.763	159.00	6.249	200.00	0.942	241.00	0.107	282.00	0.000
37.00	1.066	78.00	0.607	119.00	2.082	160.00	6.165	201.00	1.098	242.00	0.058	283.00	0.000
38.00	1.216	79.00	0.615	120.00	1.661	161.00	5.774	202.00	1.544	243.00	0.030	284.00	0.000
39.00	1.320	80.00	0.743	121.00	1.411	162.00	5.097	203.00	2.165	244.00	0.016	285.00	0.000
40.00	1.363	81.00	1.140	122.00	1.265	163.00	4.180	204.00	2.785	245.00	0.008	286.00	0.000

FL_CK (JR SPRING)



Hydrograph Statistics:

Legend	Filename & Comment	Time Step (min)	Drainage Area (ha)	Peak Flow (cms)	Time to Peak (hrs)	Runoff Volume (mm)	Runoff Volume (cu.m)	Duration of flow (hrs)	Average flow (cms)
——○——	H-FL_CK.100 : FL_CK	60.00	4945.00	45.695	113.000	186.01	9.198E+06	256.000	9.981

Hydrograph Table:

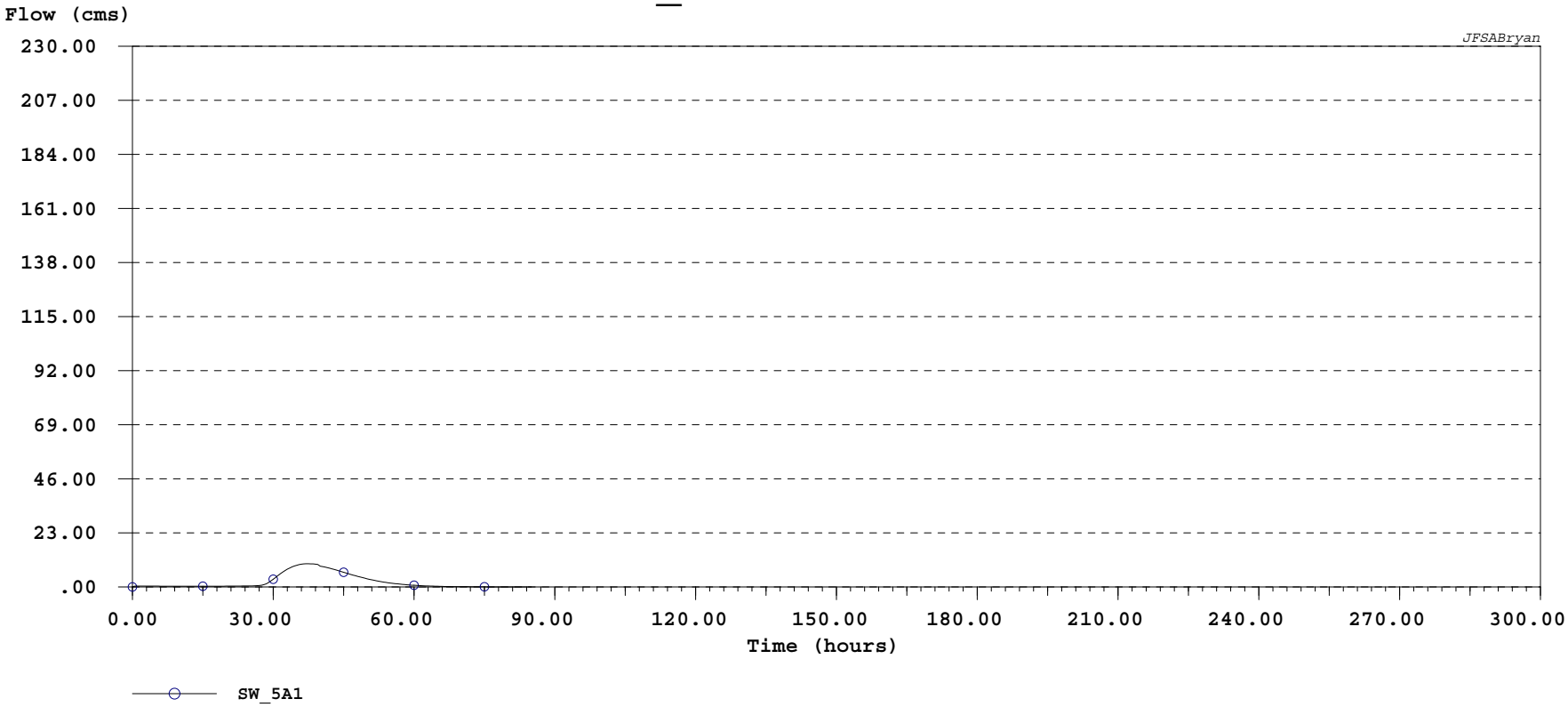
Hydrograph Filename : Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\JRSPRI~1\H-FL_CK.100
Comment in file : FL_CK

# TIME hrs	FLOW cms #	TIME hrs	FLOW cms #	TIME hrs	FLOW cms #	TIME hrs	FLOW cms #	TIME hrs	FLOW cms #	TIME hrs	FLOW cms #	TIME hrs	FLOW cms #
0.00	0.000	41.00	6.036	82.00	5.962	123.00	8.701	164.00	20.973	205.00	11.892	246.00	0.373
1.00	0.459	42.00	5.981	83.00	8.246	124.00	7.579	165.00	17.829	206.00	13.855	247.00	0.244
2.00	0.455	43.00	5.669	84.00	10.871	125.00	6.787	166.00	14.916	207.00	15.368	248.00	0.158
3.00	0.451	44.00	5.176	85.00	13.550	126.00	6.229	167.00	12.437	208.00	16.278	249.00	0.100
4.00	0.447	45.00	4.619	86.00	16.007	127.00	5.890	168.00	10.446	209.00	16.494	250.00	0.061
5.00	0.443	46.00	4.086	87.00	17.987	128.00	6.300	169.00	8.912	210.00	15.984	251.00	0.036
6.00	0.439	47.00	3.622	88.00	19.273	129.00	8.128	170.00	7.766	211.00	14.781	252.00	0.020
7.00	0.435	48.00	3.244	89.00	19.701	130.00	11.447	171.00	6.928	212.00	13.131	253.00	0.010
8.00	0.524	49.00	2.947	90.00	19.169	131.00	15.849	172.00	6.325	213.00	11.371	254.00	0.004
9.00	0.659	50.00	2.721	91.00	17.699	132.00	20.772	173.00	5.895	214.00	9.734	255.00	0.001
10.00	0.827	51.00	2.553	92.00	15.599	133.00	25.644	174.00	5.588	215.00	8.337	256.00	0.000
11.00	1.037	52.00	2.430	93.00	13.319	134.00	29.943	175.00	5.367	216.00	7.212	257.00	0.000
12.00	1.298	53.00	2.339	94.00	11.181	135.00	33.229	176.00	5.241	217.00	6.342	258.00	0.000
13.00	1.605	54.00	2.271	95.00	9.346	136.00	35.162	177.00	5.771	218.00	5.690	259.00	0.000
14.00	1.941	55.00	2.240	96.00	7.866	137.00	35.514	178.00	7.317	219.00	5.210	260.00	0.000
15.00	2.273	56.00	2.334	97.00	6.721	138.00	34.173	179.00	9.666	220.00	4.862	261.00	0.000
16.00	2.558	57.00	2.711	98.00	5.863	139.00	31.187	180.00	12.426	221.00	4.612	262.00	0.000
17.00	2.751	58.00	3.501	99.00	5.235	140.00	27.136	181.00	15.198	222.00	4.431	263.00	0.000
18.00	2.812	59.00	4.633	100.00	4.782	141.00	22.830	182.00	17.646	223.00	4.298	264.00	0.000
19.00	2.752	60.00	5.970	101.00	4.458	142.00	18.835	183.00	19.507	224.00	4.224	265.00	0.000
20.00	2.597	61.00	7.362	102.00	4.234	143.00	15.434	184.00	20.598	225.00	4.681	266.00	0.000
21.00	2.397	62.00	8.663	103.00	4.235	144.00	12.703	185.00	20.807	226.00	6.066	267.00	0.000
22.00	2.195	63.00	9.737	104.00	5.283	145.00	10.601	186.00	20.092	227.00	8.252	268.00	0.000
23.00	2.012	64.00	10.465	105.00	8.077	146.00	9.033	187.00	18.492	228.00	10.867	269.00	0.000
24.00	1.858	65.00	10.753	106.00	12.558	147.00	7.889	188.00	16.323	229.00	13.518	270.00	0.000
25.00	1.736	66.00	10.540	107.00	18.304	148.00	7.069	189.00	14.019	230.00	15.870	271.00	0.000
26.00	1.641	67.00	9.845	108.00	24.741	149.00	6.487	190.00	11.882	231.00	17.666	272.00	0.000
27.00	1.568	68.00	8.823	109.00	31.230	150.00	6.075	191.00	10.062	232.00	18.727	273.00	0.000
28.00	1.514	69.00	7.700	110.00	37.131	151.00	5.798	192.00	8.598	233.00	18.948	274.00	0.000
29.00	1.472	70.00	6.639	111.00	41.837	152.00	5.881	193.00	7.469	234.00	18.291	275.00	0.000
30.00	1.440	71.00	5.725	112.00	44.825	153.00	6.958	194.00	6.623	235.00	16.793	276.00	0.000
31.00	1.415	72.00	4.984	113.00	45.695	154.00	9.268	195.00	6.003	236.00	14.756	277.00	0.000
32.00	1.494	73.00	4.408	114.00	44.209	155.00	12.501	196.00	5.555	237.00	12.590	278.00	0.000
33.00	1.694	74.00	3.974	115.00	40.376	156.00	16.181	197.00	5.234	238.00	10.580	279.00	0.000
34.00	2.079	75.00	3.654	116.00	34.980	157.00	19.834	198.00	5.004	239.00	8.868	280.00	0.000
35.00	2.638	76.00	3.421	117.00	29.157	158.00	23.044	199.00	4.835	240.00	3.576	281.00	0.000
36.00	3.317	77.00	3.252	118.00	23.713	159.00	25.479	200.00	4.727	241.00	2.543	282.00	0.000
37.00	4.048	78.00	3.130	119.00	19.058	160.00	26.893	201.00	4.957	242.00	1.777	283.00	0.000
38.00	4.757	79.00	3.105	120.00	15.312	161.00	27.132	202.00	5.914	243.00	1.223	284.00	0.000
39.00	5.371	80.00	3.374	121.00	12.425	162.00	26.132	203.00	7.599	244.00	0.832	285.00	0.000
40.00	5.818	81.00	4.283	122.00	10.270	163.00	23.936	204.00	9.707	245.00	0.559	286.00	0.000

APPENDIX G

Jock River Hydrographs (1:100 Year Summer)

SW_5A1 (JR SUMMER)



Hydrograph Statistics:

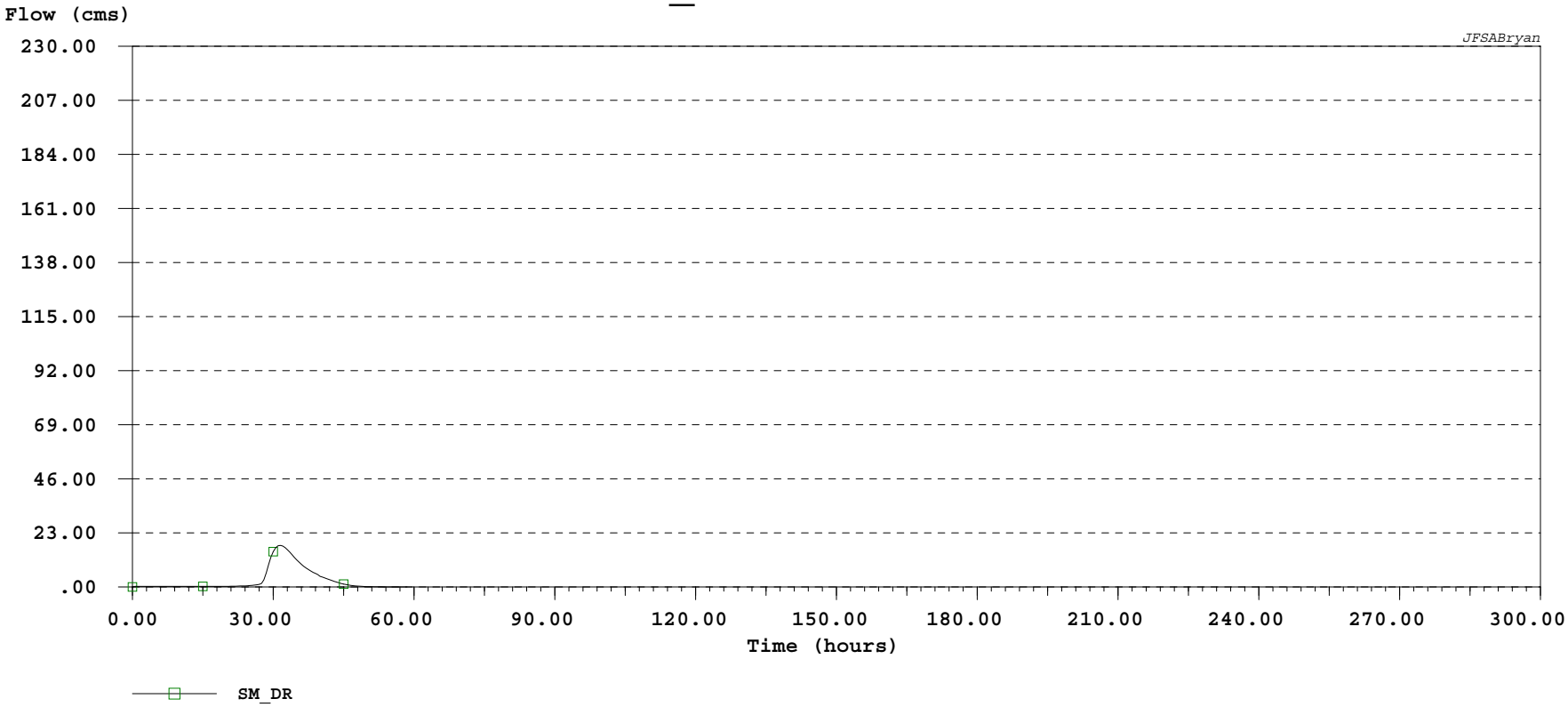
Legend	Filename & Comment	Time Step (min)	Drainage Area (ha)	Peak Flow (cms)	Time to Peak (hrs)	Runoff Volume (mm)	Runoff Volume (cu.m)	Duration of flow (hrs)	Average flow (cms)
——○——	H-SW_5A1.100: SW_5A1	30.00	1412.00	9.884	37.500	45.86	6.475E+05	85.000	2.116

Hydrograph Table:

Hydrograph Filename : Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\JRSUMM~1\H-SW_5A1.100
Comment in file : SW_5A1

TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
0.00	0.000	19.00	0.324	38.00	9.860	57.00	1.186	76.00	0.019
0.50	0.333	19.50	0.327	38.50	9.797	57.50	1.091	76.50	0.017
1.00	0.332	20.00	0.331	39.00	9.699	58.00	1.002	77.00	0.014
1.50	0.332	20.50	0.336	39.50	9.570	58.50	0.920	77.50	0.013
2.00	0.332	21.00	0.341	40.00	8.830	59.00	0.843	78.00	0.011
2.50	0.331	21.50	0.347	40.50	8.653	59.50	0.773	78.50	0.009
3.00	0.331	22.00	0.354	41.00	8.454	60.00	0.708	79.00	0.008
3.50	0.330	22.50	0.362	41.50	8.232	60.50	0.648	79.50	0.007
4.00	0.330	23.00	0.372	42.00	7.990	61.00	0.593	80.00	0.006
4.50	0.329	23.50	0.384	42.50	7.730	61.50	0.542	80.50	0.005
5.00	0.329	24.00	0.398	43.00	7.456	62.00	0.495	81.00	0.004
5.50	0.328	24.50	0.416	43.50	7.170	62.50	0.452	81.50	0.003
6.00	0.328	25.00	0.437	44.00	6.875	63.00	0.413	82.00	0.003
6.50	0.327	25.50	0.463	44.50	6.575	63.50	0.376	82.50	0.002
7.00	0.327	26.00	0.496	45.00	6.271	64.00	0.343	83.00	0.002
7.50	0.326	26.50	0.539	45.50	5.966	64.50	0.313	83.50	0.001
8.00	0.326	27.00	0.597	46.00	5.663	65.00	0.285	84.00	0.001
8.50	0.326	27.50	0.776	46.50	5.363	65.50	0.259	84.50	0.000
9.00	0.325	28.00	0.949	47.00	5.068	66.00	0.236	85.00	0.000
9.50	0.325	28.50	1.323	47.50	4.780	66.50	0.214	85.50	0.000
10.00	0.324	29.00	1.868	48.00	4.499	67.00	0.195	86.00	0.000
10.50	0.324	29.50	2.535	48.50	4.227	67.50	0.177	86.50	0.000
11.00	0.323	30.00	3.277	49.00	3.965	68.00	0.161	87.00	0.000
11.50	0.323	30.50	4.054	49.50	3.713	68.50	0.146	87.50	0.000
12.00	0.322	31.00	4.833	50.00	3.471	69.00	0.132	88.00	0.000
12.50	0.322	31.50	5.589	50.50	3.240	69.50	0.120	88.50	0.000
13.00	0.321	32.00	6.304	51.00	3.020	70.00	0.109	89.00	0.000
13.50	0.321	32.50	6.967	51.50	2.811	70.50	0.098	89.50	0.000
14.00	0.320	33.00	7.565	52.00	2.614	71.00	0.089	90.00	0.000
14.50	0.320	33.50	8.092	52.50	2.427	71.50	0.080	90.50	0.000
15.00	0.320	34.00	8.546	53.00	2.251	72.00	0.072	91.00	0.000
15.50	0.319	34.50	8.927	53.50	2.085	72.50	0.065	91.50	0.000
16.00	0.319	35.00	9.238	54.00	1.929	73.00	0.048	92.00	0.000
16.50	0.318	35.50	9.483	54.50	1.783	73.50	0.039	92.50	0.000
17.00	0.318	36.00	9.665	55.00	1.647	74.00	0.034	93.00	0.000
17.50	0.317	36.50	9.791	55.50	1.519	74.50	0.029	93.50	0.000
18.00	0.317	37.00	9.862	56.00	1.400	75.00	0.025	94.00	0.000
18.50	0.320	37.50	9.884	56.50	1.289	75.50	0.022	94.50	0.000

SM_DR (JR SUMMER)



Hydrograph Statistics:

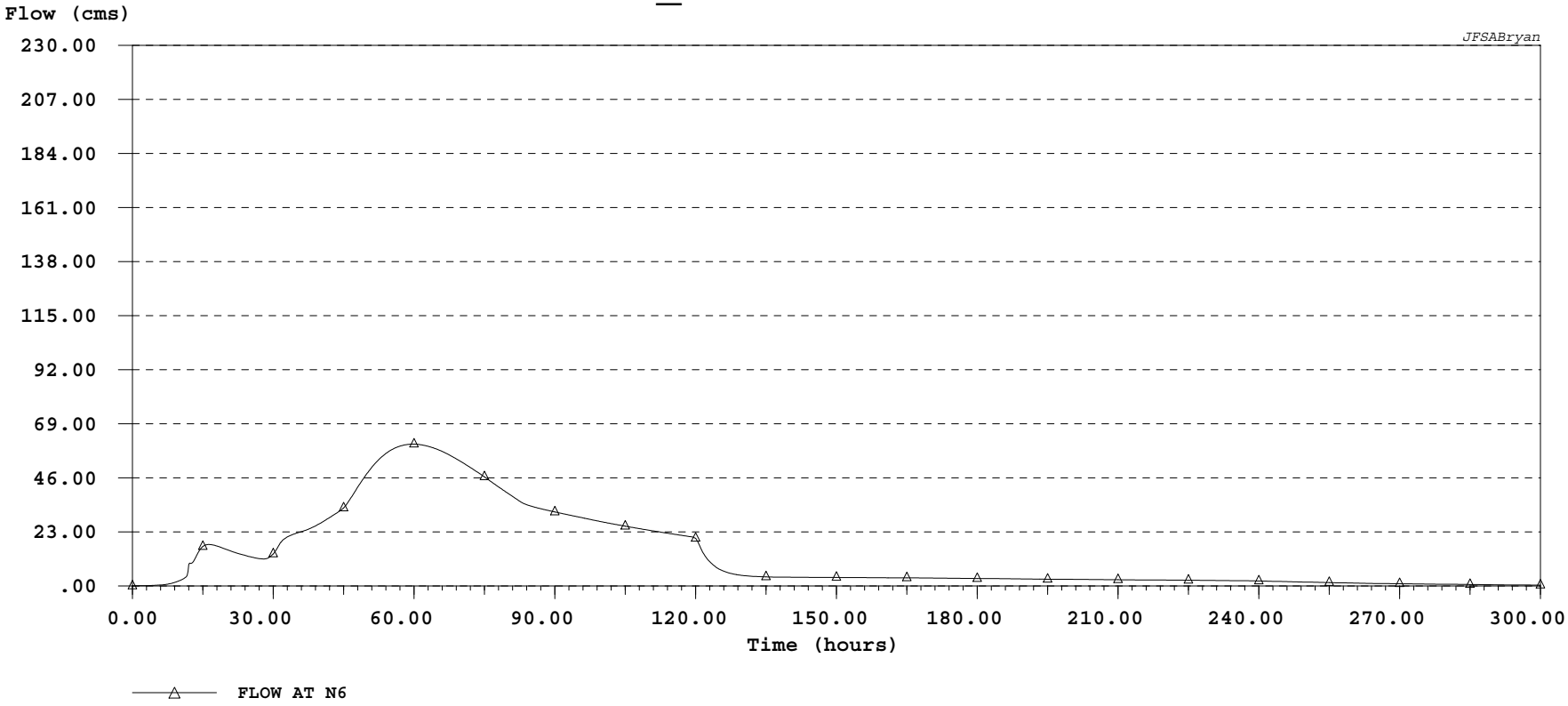
Legend	Filename & Comment	Time Step (min)	Drainage Area (ha)	Peak Flow (cms)	Time to Peak (hrs)	Runoff Volume (mm)	Runoff Volume (cu.m)	Duration of flow (hrs)	Average flow (cms)
	H-SM_DR.100 : SM_DR	30.00	1122.00	17.710	31.500	52.03	5.838E+05	58.500	2.772

Hydrograph Table:

Hydrograph Filename : Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\JRSUMM~1\H-SM_DR.100
Comment in file : SM_DR

# TIME hrs	FLOW cms	# TIME hrs	FLOW cms	# TIME hrs	FLOW cms	# TIME hrs	FLOW cms
0.00	0.000	19.00	0.257	38.00	6.756	57.00	0.003
0.50	0.265	19.50	0.261	38.50	6.209	57.50	0.001
1.00	0.264	20.00	0.267	39.00	5.728	58.00	0.001
1.50	0.264	20.50	0.275	39.50	5.308	58.50	0.000
2.00	0.263	21.00	0.287	40.00	4.512	59.00	0.000
2.50	0.263	21.50	0.302	40.50	4.174	59.50	0.000
3.00	0.263	22.00	0.323	41.00	3.826	60.00	0.000
3.50	0.262	22.50	0.348	41.50	3.464	60.50	0.000
4.00	0.262	23.00	0.380	42.00	3.094	61.00	0.000
4.50	0.262	23.50	0.418	42.50	2.728	61.50	0.000
5.00	0.261	24.00	0.465	43.00	2.376	62.00	0.000
5.50	0.261	24.50	0.522	43.50	2.047	62.50	0.000
6.00	0.260	25.00	0.593	44.00	1.745	63.00	0.000
6.50	0.260	25.50	0.680	44.50	1.474	63.50	0.000
7.00	0.260	26.00	0.790	45.00	1.235	64.00	0.000
7.50	0.259	26.50	0.933	45.50	1.027	64.50	0.000
8.00	0.259	27.00	1.132	46.00	0.847	65.00	0.000
8.50	0.259	27.50	1.504	46.50	0.677	65.50	0.000
9.00	0.258	28.00	3.012	47.00	0.547	66.00	0.000
9.50	0.258	28.50	5.998	47.50	0.442	66.50	0.000
10.00	0.258	29.00	9.448	48.00	0.356	67.00	0.000
10.50	0.257	29.50	12.585	48.50	0.286	67.50	0.000
11.00	0.257	30.00	15.030	49.00	0.229	68.00	0.000
11.50	0.256	30.50	16.658	49.50	0.182	68.50	0.000
12.00	0.256	31.00	17.506	50.00	0.144	69.00	0.000
12.50	0.256	31.50	17.710	50.50	0.114	69.50	0.000
13.00	0.255	32.00	17.432	51.00	0.090	70.00	0.000
13.50	0.255	32.50	16.796	51.50	0.070	70.50	0.000
14.00	0.255	33.00	15.902	52.00	0.055	71.00	0.000
14.50	0.254	33.50	14.850	52.50	0.043	71.50	0.000
15.00	0.254	34.00	13.727	53.00	0.033	72.00	0.000
15.50	0.254	34.50	12.601	53.50	0.025	72.50	0.000
16.00	0.253	35.00	11.521	54.00	0.019	73.00	0.000
16.50	0.253	35.50	10.519	54.50	0.014	73.50	0.000
17.00	0.252	36.00	9.612	55.00	0.010	74.00	0.000
17.50	0.252	36.50	8.793	55.50	0.008	74.50	0.000
18.00	0.252	37.00	8.047	56.00	0.006	75.00	0.000
18.50	0.255	37.50	7.368	56.50	0.004	75.50	0.000

S_N6 (JR SUMMER)



Hydrograph Statistics:

Legend	Filename & Comment	Time Step (min)	Drainage Area (ha)	Peak Flow (cms)	Time to Peak (hrs)	Runoff Volume (mm)	Runoff Volume (cu.m)	Duration of flow (hrs)	Average flow (cms)
——△——	H-S_N6.100 : FLOW AT N6	10.00	40055.00	60.337	60.000	36.34	1.456E+07	300.000	13.478

Hydrograph Table:

Hydrograph Filename : Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\JRSUMM~1\H-S_N6.100
Comment in file : FLOW AT N6

TIME hrs	FLOW cms
0.00	0.000
0.17	0.013
0.33	0.027
0.50	0.040
0.67	0.041
0.83	0.043
1.00	0.059
1.17	0.068
1.33	0.075
1.50	0.080
1.67	0.087
1.83	0.094
2.00	0.100
2.17	0.110
2.33	0.119
2.50	0.127
2.67	0.136
2.83	0.144
3.00	0.153
3.17	0.162
3.33	0.172
3.50	0.181
3.67	0.192
3.83	0.202
4.00	0.213
4.17	0.229
4.33	0.243
4.50	0.256
4.67	0.270
4.83	0.285
5.00	0.299
5.17	0.316
5.33	0.333
5.50	0.350
5.67	0.369
5.83	0.389
6.00	0.409
6.17	0.438
6.33	0.466
6.50	0.493
6.67	0.532
6.83	0.572
7.00	0.612
7.17	0.669
7.33	0.725
7.50	0.781
7.67	0.846
7.83	0.911
8.00	0.976
8.17	1.056
8.33	1.135
8.50	1.214
8.67	1.308
8.83	1.402
9.00	1.499
9.17	1.618
9.33	1.734
9.50	1.849
9.67	1.978
9.83	2.103
10.00	2.227
10.17	2.374
10.33	2.522
10.50	2.673
10.67	2.858
10.83	3.041
11.00	3.221
11.17	3.460
11.33	3.688
11.50	3.914
11.67	4.562
11.83	6.272
12.00	9.147
12.17	9.746
12.33	9.606
12.50	9.647
12.67	9.729
12.83	9.993
13.00	10.435
13.17	10.969
13.33	11.607
13.50	12.297
13.67	12.971
13.83	13.626
14.00	14.245
14.17	14.801
14.33	15.310
14.50	15.761
14.67	16.155
14.83	16.498
15.00	16.789
15.17	17.027
15.33	17.218
15.50	17.373
15.67	17.490
15.83	17.568
16.00	17.624
16.17	17.638
16.33	17.635
16.50	17.616
16.67	17.588
16.83	17.555
17.00	17.510
17.17	17.447
17.33	17.376
17.50	17.300
17.67	17.212
17.83	17.118
18.00	17.020
18.17	16.908
18.33	16.790
18.50	16.671
18.67	16.547
18.83	16.429
19.00	16.308
19.17	16.181
19.33	16.056
19.50	15.932
19.67	15.808
19.83	15.685
20.00	15.565
20.17	15.438
20.33	15.316
20.50	15.198
20.67	15.081
20.83	14.965
21.00	14.846
21.17	14.723
21.33	14.600
21.50	14.480
21.67	14.364

TIME hrs	FLOW cms
21.83	14.250
22.00	14.138
22.17	14.030
22.33	13.928
22.50	13.831
22.67	13.737
22.83	13.644
23.00	13.550
23.17	13.459
23.33	13.369
23.50	13.280
23.67	13.190
23.83	13.098
24.00	13.006
24.17	12.901
24.33	12.806
24.50	12.716
24.67	12.632
24.83	12.550
25.00	12.468
25.17	12.390
25.33	12.313
25.50	12.238
25.67	12.167
25.83	12.092
26.00	12.013
26.17	11.940
26.33	11.870
26.50	11.805
26.67	11.751
26.83	11.696
27.00	11.644
27.17	11.609
27.33	11.569
27.50	11.526
27.67	11.512
27.83	11.494
28.00	11.472
28.17	11.504
28.33	11.543
28.50	11.590
28.67	11.713
28.83	11.844
29.00	11.982
29.17	12.208
29.33	12.437
29.50	12.667
29.67	12.989
29.83	13.313
30.00	13.643
30.17	14.073
30.33	14.510
30.50	14.953
30.67	15.490
30.83	16.030
31.00	16.574
31.17	17.128
31.33	17.686
31.50	18.245
31.67	18.652
31.83	19.059
32.00	19.466
32.17	19.724
32.33	19.982
32.50	20.243
32.67	20.444
32.83	20.649
33.00	20.857
33.17	21.024
33.33	21.193
33.50	21.363
33.67	21.504
33.83	21.645
34.00	21.787
34.17	21.909
34.33	22.031
34.50	22.155
34.67	22.264
34.83	22.375
35.00	22.487
35.17	22.589
35.33	22.691
35.50	22.794
35.67	22.898
35.83	23.002
36.00	23.107
36.17	23.216
36.33	23.326
36.50	23.437
36.67	23.552
36.83	23.666
37.00	23.782
37.17	23.908
37.33	24.035
37.50	24.162
37.67	24.303
37.83	24.444
38.00	24.586
38.17	24.740
38.33	24.896
38.50	25.051
38.67	25.220
38.83	25.389
39.00	25.558
39.17	25.740
39.33	25.923
39.50	26.105
39.67	26.274
39.83	26.444
40.00	26.614
40.17	26.817
40.33	27.021
40.50	27.225
40.67	27.433
40.83	27.642
41.00	27.851
41.17	28.058
41.33	28.266
41.50	28.474
41.67	28.683
41.83	28.893
42.00	29.103
42.17	29.314
42.33	29.524
42.50	29.735
42.67	29.946
42.83	30.157
43.00	30.368
43.17	30.584
43.33	30.800
43.50	31.017

TIME hrs	FLOW cms
43.67	31.238
43.83	31.460
44.00	31.681
44.17	31.906
44.33	32.131
44.50	32.355
44.67	32.638
44.83	32.920
45.00	33.203
45.17	33.601
45.33	34.000
45.50	34.399
45.67	34.873
45.83	35.346
46.00	35.820
46.17	36.320
46.33	36.821
46.50	37.321
46.67	37.839
46.83	38.357
47.00	38.875
47.17	39.404
47.33	39.932
47.50	40.460
47.67	40.987
47.83	41.515
48.00	42.042
48.17	42.554
48.33	43.066
48.50	43.577
48.67	44.076
48.83	44.575
49.00	45.073
49.17	45.555
49.33	46.036
49.50	46.518
49.67	46.978
49.83	47.438
50.00	47.898
50.17	48.339
50.33	48.781
50.50	49.222
50.67	49.643
50.83	50.063
51.00	50.483
51.17	50.880
51.33	51.276
51.50	51.673
51.67	52.043
51.83	52.414
52.00	52.785
52.17	53.124
52.33	53.464
52.50	53.803
52.67	54.113
52.83	54.424
53.00	54.734
53.17	55.020
53.33	55.306
53.50	55.592
53.67	55.851
53.83	56.110
54.00	56.370
54.17	56.603
54.33	56.837
54.50	57.071
54.67	57.281
54.83	57.490
55.00	57.700
55.17	57.889
55.33	58.078
55.50	58.267
55.67	58.428
55.83	58.588
56.00	58.749
56.17	58.886
56.33	59.022
56.50	59.159
56.67	59.275
56.83	59.390
57.00	59.506
57.17	59.599
57.33	59.692
57.50	59.785
57.67	59.862
57.83	59.939
58.00	60.015
58.17	60.067
58.33	60.119
58.50	60.170
58.67	60.204
58.83	60.237
59.00	60.270
59.17	60.290
59.33	60.310
59.50	60.331
59.67	60.333
59.83	60.335
60.00	60.337
60.17	60.322
60.33	60.308
60.50	60.293
60.67	60.262
60.83	60.231
61.00	60.201
61.17	60.155
61.33	60.109
61.50	60.063
61.67	60.003
61.83	59.943
62.00	59.883
62.17	59.809
62.33	59.736
62.50	59.662
62.67	59.581
62.83	59.500
63.00	59.419
63.17	59.325
63.33	59.231
63.50	59.137
63.67	59.030
63.83	58.923
64.00	58.816
64.17	58.698
64.33	58.581
64.50	58.463
64.67	58.336
64.83	58.209
65.00	58.082
65.17	57.945
65.33	57.808

TIME hrs	FLOW cms
65.50	57.671
65.67	57.526
65.83	57.380
66.00	57.235
66.17	57.081
66.33	56.926
66.50	56.771
66.67	56.607
66.83	56.443
67.00	56.278
67.17	56.103
67.33	55.927
67.50	55.752
67.67	55.570
67.83	55.388
68.00	55.206
68.17	55.020
68.33	54.834
68.50	54.647
68.67	54.456
68.83	54.264
69.00	54.072
69.17	53.879
69.33	53.686
69.50	53.493
69.67	53.294
69.83	53.094
70.00	52.895
70.17	52.692
70.33	52.489
70.50	52.287
70.67	52.080
70.83	51.874
71.00	51.668
71.17	51.459
71.33	51.249
71.50	51.040
71.67	50.827
71.83	50.615
72.00	50.402
72.17	50.187
72.33	49.971
72.50	49.756
72.67	49.538
72.83	49.320
73.00	49.102
73.17	48.881
73.33	48.661
73.50	48.440
73.67	48.217
73.83	47.995
74.00	47.772
74.17	47.547
74.33	47.322
74.50	47.097
74.67	46.866
74.83	46.635
75.00	46.403
75.17	46.166
75.33	45.928
75.50	45.690
75.67	45.452
75.83	45.214
76.00	44.976
76.17	44.738
76.33	44.500
76.50	44.262
76.67	44.024
76.83	43.787
77.00	43.550
77.17	43.315
77.33	43.081
77.50	42.847
77.67	42.615
77.83	42.383
78.00	42.151
78.17	41.921
78.33	41.691
78.50	41.462
78.67	41.234
78.83	41.006
79.00	40.778
79.17	40.553
79.33	40.327
79.50	40.101
79.67	39.877
79.83	39.653
80.00	39.429
80.17	39.207
80.33	38.984
80.50	38.762
80.67	38.542
80.83	38.321
81.00	38.101
81.17	37.874
81.33	37.648
81.50	37.421
81.67	37.191
81.83	36.960
82.00	36.730
82.17	36.503
82.33	36.276
82.50	36.049
82.67	35.846
82.83	35.644
83.00	35.441
83.17	35.282
83.33	35.123
83.50	34.965
83.67	34.835
83.83	34.705
84.00	34.575
84.17	34.463
84.33	34.350
84.50	34.238
84.67	34.134
84.83	34.030
85.00	33.926
85.17	33.830
85.33	33.734
85.50	33.638
85.67	33.548
85.83	33.459
86.00	33.369
86.17	33.284
86.33	33.198
86.50	33.113
86.67	33.031
86.83	32.949
87.00	32.867
87.17	32.787

TIME hrs	FLOW cms
87.33	32.708
87.50	32.628
87.67	32.550
87.83	32.473
88.00	32.395
88.17	32.319
88.33	32.243
88.50	32.167
88.67	32.092
88.83	32.016
89.00	31.941
89.17	31.867
89.33	31.793
89.50	31.719
89.67	31.645
89.83	31.572
90.00	31.499
90.17	31.426
90.33	31.353
90.50	31.280
90.67	31.208
90.83	31.136
91.00	31.064
91.17	30.992
91.33	30.920
91.50	30.848
91.67	30.777
91.83	30.706
92.00	30.635
92.17	30.564
92.33	30.493
92.50	30.422
92.67	30.352
92.83	30.281
93.00	30.211
93.17	30.141
93.33	30.071
93.50	30.001
93.67	29.931
93.83	29.862
94.00	29.792
94.17	29.723
94.33	29.654
94.50	29.585
94.67	29.516
94.83	29.447
95.00	29.378
95.17	29.310
95.33	29.242
95.50	29.173
95.67	29.103
95.83	29.033
96.00	28.963
96.17	28.892
96.33	28.820
96.50	28.748
96.67	28.678
96.83	28.607
97.00	28.536
97.17	28.466
97.33	28.397
97.50	28.327
97.67	28.256
97.83	28.184
98.00	28.113
98.17	28.043
98.33	27.973
98.50	27.904
98.67	27.835
98.83	27.767
99.00	27.699
99.17	27.632
99.33	27.565
99.50	27.498
99.67	27.433
99.83	27.367
100.00	27.301
100.17	27.236
100.33	27.172
100.50	27.107
100.67	27.043
100.83	26.979
101.00	26.915
101.17	26.852
101.33	26.789
101.50	26.725
101.67	26.663
101.83	26.600
102.00	26.538
102.17	26.476
102.33	26.414
102.50	26.351
102.67	26.290
102.83	26.229
103.00	26.167
103.17	26.106
103.33	26.045
103.50	25.984
103.67	25.924
103.83	25.863
104.00	25.803
104.17	25.743
104.33	25.683
104.50	25.623
104.67	25.564
104.83	25.504
105.00	25.445
105.17	25.386
105.33	25.327
105.50	25.267
105.67	25.209
105.83	25.150
106.00	25.092
106.17	25.034
106.33	24.975
106.50	24.917
106.67	24.860
106.83	24.802
107.00	24.744
107.17	24.687
107.33	24.630
107.50	24.572
107.67	24.516
107.83	24.459
108.00	24.402
108.17	24.346
108.33	24.289
108.50	24.233
108.67	24.177
108.83	24.121
109.00	24.065

TIME hrs	FLOW cms
109.17	24.010
109.33	23.954
109.50	23.898
109.67	23.843
109.83	23.788
110.00	23.733
110.17	23.678
110.33	23.624
110.50	23.569
110.67	23.515
110.83	23.461
111.00	23.406
111.17	23.353
111.33	23.299
111.50	23.245
111.67	23.191
111.83	23.138
112.00	23.085
112.17	23.032
112.33	22.979
112.50	22.926
112.67	22.873
112.83	22.820
113.00	22.768
113.17	22.716
113.33	22.663
113.50	22.611
113.67	22.560
113.83	22.508
114.00	22.456
114.17	22.405
114.33	22.353
114.50	22.302
114.67	22.251
114.83	22.200
115.00	22.149
115.17	22.098
115.33	22.048
115.50	21.997
115.67	21.945
115.83	21.893
116.00	21.840
116.17	21.787
116.33	21.734
116.50	21.681
116.67	21.629
116.83	21.577
117.00	21.524
117.17	21.473
117.33	21.422
117.50	21.371
117.67	21.318
117.83	21.266
118.00	21.214
118.17	21.162
118.33	21.111
118.50	21.060
118.67	21.010
118.83	20.960
119.00	20.910
119.17	20.861
119.33	20.812
119.50	20.763
119.67	20.596
119.83	20.429
120.00	20.262
120.17	19.731
120.33	19.199
120.50	18.667
120.67	17.929
120.83	17.190
121.00	16.450
121.17	15.774
121.33	15.098
121.50	14.423
121.67	13.863
121.83	13.304
122.00	12.745
122.17	12.302
122.33	11.860
122.50	11.418
122.67	11.059
122.83	10.702
123.00	10.344
123.17	10.024
123.33	9.703
123.50	9.383
123.67	9.089
123.83	8.795
124.00	8.502
124.17	8.257
124.33	8.012
124.50	7.768
124.67	7.571
124.83	7.374
125.00	7.177
125.17	7.016
125.33	6.854
125.50	6.692
125.67	6.556
125.83	6.421
126.00	6.286
126.17	6.166
126.33	6.047
126.50	5.928
126.67	5.821
126.83	5.714
127.00	5.606
127.17	5.514
127.33	5.421
127.50	5.329
127.67	5.251
127.83	5.173
128.00	5.096
128.17	5.030
128.33	4.965
128.50	4.899
128.67	4.844
128.83	4.788
129.00	4.733
129.17	4.685
129.33	4.638
129.50	4.590
129.67	4.550
129.83	4.509
130.00	4.469
130.17	4.434
130.33	4.399
130.50	4.364
130.67	4.334
130.83	4.304

TIME hrs	FLOW cms
131.00	4.274
131.17	4.248
131.33	4.222
131.50	4.196
131.67	4.173
131.83	4.150
132.00	4.128
132.17	4.108
132.33	4.088
132.50	4.069
132.67	4.052
132.83	4.035
133.00	4.017
133.17	4.003
133.33	3.988
133.50	3.973
133.67	3.961
133.83	3.948
134.00	3.936
134.17	3.925
134.33	3.914
134.50	3.902
134.67	3.892
134.83	3.882
135.00	3.872
135.17	3.864
135.33	3.855
135.50	3.846
135.67	3.839
135.83	3.831
136.00	3.823
136.17	3.816
136.33	3.810
136.50	3.803
136.67	3.797
136.83	3.791
137.00	3.785
137.17	3.780
137.33	3.775
137.50	3.771
137.67	3.766
137.83	3.760
138.00	3.755
138.17	3.751
138.33	3.746
138.50	3.741
138.67	3.738
138.83	3.735
139.00	3.731
139.17	3.728
139.33	3.725
139.50	3.722
139.67	3.718
139.83	3.715
140.00	3.711
140.17	3.708
140.33	3.705
140.50	3.702
140.67	3.699
140.83	3.697
141.00	3.695
141.17	3.693
141.33	3.691
141.50	3.689
141.67	3.687
141.83	3.685
142.00	3.683
142.17	3.681
142.33	3.679
142.50	3.677
142.67	3.675
142.83	3.672
143.00	3.670
143.17	3.668
143.33	3.665
143.50	3.663
143.67	3.661
143.83	3.660
144.00	3.658
144.17	3.657
144.33	3.655
144.50	3.654
144.67	3.652
144.83	3.651
145.00	3.650
145.17	3.648
145.33	3.647
145.50	3.646
145.67	3.644
145.83	3.643
146.00	3.642
146.17	3.640
146.33	3.639
146.50	3.638
146.67	3.636
146.83	3.634
147.00	3.633
147.17	3.631
147.33	3.629
147.50	3.627
147.67	3.626
147.83	3.625
148.00	3.624
148.17	3.623
148.33	3.622
148.50	3.621
148.67	3.620
148.83	3.618
149.00	3.617
149.17	3.616
149.33	3.615
149.50	3.614
149.67	3.613
149.83	3.611
150.00	3.610
150.17	3.609
150.33	3.608
150.50	3.607
150.67	3.606
150.83	3.604
151.00	3.603
151.17	3.602
151.33	3.601
151.50	3.600
151.67	3.598
151.83	3.596
152.00	3.594
152.17	3.593
152.33	3.591
152.50	3.589
152.67	3.588

TIME hrs	FLOW cms
152.83	3.587
153.00	3.585
153.17	3.584
153.33	3.583
153.50	3.582
153.67	3.580
153.83	3.579
154.00	3.578
154.17	3.576
154.33	3.575
154.50	3.574
154.67	3.572
154.83	3.571
155.00	3.569
155.17	3.568
155.33	3.567
155.50	3.565
155.67	3.564
155.83	3.562
156.00	3.561
156.17	3.558
156.33	3.556
156.50	3.554
156.67	3.552
156.83	3.549
157.00	3.547
157.17	3.546
157.33	3.544
157.50	3.542
157.67	3.541
157.83	3.539
158.00	3.537
158.17	3.536
158.33	3.534
158.50	3.532
158.67	3.530
158.83	3.529
159.00	3.527
159.17	3.525
159.33	3.523
159.50	3.521
159.67	3.519
159.83	3.516
160.00	3.514
160.17	3.511
160.33	3.508
160.50	3.506
160.67	3.504
160.83	3.502
161.00	3.500
161.17	3.498
161.33	3.496
161.50	3.494
161.67	3.492
161.83	3.490
162.00	3.488
162.17	3.486
162.33	3.484
162.50	3.482
162.67	3.479
162.83	3.476
163.00	3.473
163.17	3.471
163.33	3.468
163.50	3.465
163.67	3.463
163.83	3.461
164.00	3.459
164.17	3.456
164.33	3.454
164.50	3.452
164.67	3.450
164.83	3.447
165.00	3.445
165.17	3.442
165.33	3.439
165.50	3.436
165.67	3.433
165.83	3.431
166.00	3.428
166.17	3.425
166.33	3.423
166.50	3.421
166.67	3.418
166.83	3.416
167.00	3.414
167.17	3.411
167.33	3.409
167.50	3.406
167.67	3.403
167.83	3.400
168.00	3.397
168.17	3.394
168.33	3.391
168.50	3.388
168.67	3.385
168.83	3.383
169.00	3.381
169.17	3.378
169.33	3.376
169.50	3.373
169.67	3.371
169.83	3.368
170.00	3.365
170.17	3.362
170.33	3.359
170.50	3.356
170.67	3.353
170.83	3.350
171.00	3.346
171.17	3.344
171.33	3.341
171.50	3.339
171.67	3.336
171.83	3.334
172.00	3.331
172.17	3.328
172.33	3.325
172.50	3.322
172.67	3.319
172.83	3.315
173.00	3.312
173.17	3.310
173.33	3.307
173.50	3.305
173.67	3.302
173.83	3.299
174.00	3.297
174.17	3.293
174.33	3.290
174.50	3.287

TIME hrs	FLOW cms
174.67	3.284
174.83	3.281
175.00	3.278
175.17	3.275
175.33	3.272
175.50	3.270
175.67	3.267
175.83	3.264
176.00	3.261
176.17	3.258
176.33	3.255
176.50	3.252
176.67	3.249
176.83	3.245
177.00	3.242
177.17	3.240
177.33	3.237
177.50	3.234
177.67	3.231
177.83	3.229
178.00	3.226
178.17	3.223
178.33	3.219
178.50	3.216
178.67	3.213
178.83	3.210
179.00	3.206
179.17	3.204
179.33	3.201
179.50	3.198
179.67	3.196
179.83	3.193
180.00	3.190
180.17	3.187
180.33	3.183
180.50	3.180
180.67	3.177
180.83	3.174
181.00	3.171
181.17	3.168
181.33	3.165
181.50	3.162
181.67	3.160
181.83	3.157
182.00	3.154
182.17	3.151
182.33	3.147
182.50	3.144
182.67	3.141
182.83	3.138
183.00	3.135
183.17	3.132
183.33	3.129
183.50	3.126
183.67	3.124
183.83	3.121
184.00	3.118
184.17	3.115
184.33	3.111
184.50	3.108
184.67	3.105
184.83	3.101
185.00	3.097
185.17	3.094
185.33	3.090
185.50	3.087
185.67	3.083
185.83	3.079
186.00	3.075
186.17	3.071
186.33	3.067
186.50	3.064
186.67	3.060
186.83	3.057
187.00	3.054
187.17	3.050
187.33	3.046
187.50	3.042
187.67	3.038
187.83	3.034
188.00	3.031
188.17	3.028
188.33	3.025
188.50	3.022
188.67	3.017
188.83	3.012
189.00	3.008
189.17	3.003
189.33	2.999
189.50	2.995
189.67	2.992
189.83	2.990
190.00	2.987
190.17	2.983
190.33	2.978
190.50	2.974
190.67	2.970
190.83	2.966
191.00	2.962
191.17	2.959
191.33	2.957
191.50	2.955
191.67	2.951
191.83	2.947
192.00	2.943
192.17	2.939
192.33	2.935
192.50	2.932
192.67	2.930
192.83	2.928
193.00	2.926
193.17	2.924
193.33	2.922
193.50	2.919
193.67	2.916
193.83	2.912
194.00	2.908
194.17	2.904
194.33	2.901
194.50	2.897
194.67	2.895
194.83	2.893
195.00	2.892
195.17	2.890
195.33	2.888
195.50	2.886
195.67	2.882
195.83	2.878
196.00	2.875
196.17	2.871
196.33	2.867

TIME hrs	FLOW cms
196.50	2.864
196.67	2.862
196.83	2.860
197.00	2.859
197.17	2.857
197.33	2.855
197.50	2.853
197.67	2.849
197.83	2.845
198.00	2.842
198.17	2.838
198.33	2.835
198.50	2.831
198.67	2.829
198.83	2.828
199.00	2.826
199.17	2.824
199.33	2.822
199.50	2.820
199.67	2.816
199.83	2.813
200.00	2.809
200.17	2.806
200.33	2.802
200.50	2.799
200.67	2.797
200.83	2.795
201.00	2.793
201.17	2.792
201.33	2.790
201.50	2.788
201.67	2.784
201.83	2.781
202.00	2.777
202.17	2.774
202.33	2.770
202.50	2.767
202.67	2.765
202.83	2.763
203.00	2.761
203.17	2.759
203.33	2.758
203.50	2.756
203.67	2.752
203.83	2.749
204.00	2.745
204.17	2.742
204.33	2.738
204.50	2.735
204.67	2.733
204.83	2.731
205.00	2.730
205.17	2.728
205.33	2.726
205.50	2.724
205.67	2.720
205.83	2.717
206.00	2.714
206.17	2.710
206.33	2.707
206.50	2.704
206.67	2.702
206.83	2.700
207.00	2.698
207.17	2.696
207.33	2.694
207.50	2.692
207.67	2.689
207.83	2.686
208.00	2.682
208.17	2.679
208.33	2.676
208.50	2.672
208.67	2.671
208.83	2.669
209.00	2.667
209.17	2.665
209.33	2.663
209.50	2.661
209.67	2.658
209.83	2.655
210.00	2.651
210.17	2.648
210.33	2.645
210.50	2.642
210.67	2.640
210.83	2.638
211.00	2.636
211.17	2.634
211.33	2.632
211.50	2.631
211.67	2.627
211.83	2.624
212.00	2.621
212.17	2.618
212.33	2.614
212.50	2.611
212.67	2.609
212.83	2.608
213.00	2.606
213.17	2.604
213.33	2.602
213.50	2.600
213.67	2.597
213.83	2.594
214.00	2.591
214.17	2.587
214.33	2.584
214.50	2.581
214.67	2.579
214.83	2.578
215.00	2.576
215.17	2.574
215.33	2.572
215.50	2.570
215.67	2.567
215.83	2.564
216.00	2.561
216.17	2.558
216.33	2.554
216.50	2.551
216.67	2.550
216.83	2.548
217.00	2.546
217.17	2.544
217.33	2.542
217.50	2.540
217.67	2.537
217.83	2.534
218.00	2.531
218.17	2.528

TIME hrs	FLOW cms
218.33	2.525
218.50	2.522
218.67	2.520
218.83	2.518
219.00	2.517
219.17	2.515
219.33	2.513
219.50	2.511
219.67	2.508
219.83	2.505
220.00	2.502
220.17	2.499
220.33	2.496
220.50	2.493
220.67	2.491
220.83	2.489
221.00	2.487
221.17	2.486
221.33	2.484
221.50	2.482
221.67	2.479
221.83	2.476
222.00	2.473
222.17	2.470
222.33	2.467
222.50	2.464
222.67	2.462
222.83	2.460
223.00	2.459
223.17	2.457
223.33	2.455
223.50	2.453
223.67	2.450
223.83	2.447
224.00	2.444
224.17	2.441
224.33	2.438
224.50	2.435
224.67	2.434
224.83	2.432
225.00	2.430
225.17	2.428
225.33	2.426
225.50	2.424
225.67	2.421
225.83	2.418
226.00	2.415
226.17	2.412
226.33	2.409
226.50	2.406
226.67	2.405
226.83	2.403
227.00	2.401
227.17	2.399
227.33	2.397
227.50	2.395
227.67	2.392
227.83	2.389
228.00	2.386
228.17	2.383
228.33	2.380
228.50	2.377
228.67	2.375
228.83	2.373
229.00	2.371
229.17	2.368
229.33	2.365
229.50	2.362
229.67	2.360
229.83	2.357
230.00	2.354
230.17	2.352
230.33	2.350
230.50	2.348
230.67	2.346
230.83	2.344
231.00	2.342
231.17	2.339
231.33	2.336
231.50	2.333
231.67	2.330
231.83	2.326
232.00	2.323
232.17	2.321
232.33	2.319
232.50	2.317
232.67	2.314
232.83	2.311
233.00	2.307
233.17	2.304
233.33	2.301
233.50	2.298
233.67	2.295
233.83	2.293
234.00	2.290
234.17	2.287
234.33	2.283
234.50	2.280
234.67	2.276
234.83	2.272
235.00	2.268
235.17	2.266
235.33	2.263
235.50	2.260
235.67	2.255
235.83	2.251
236.00	2.247
236.17	2.242
236.33	2.238
236.50	2.234
236.67	2.229
236.83	2.224
237.00	2.220
237.17	2.215
237.33	2.210
237.50	2.205
237.67	2.200
237.83	2.195
238.00	2.190
238.17	2.184
238.33	2.179
238.50	2.173
238.67	2.167
238.83	2.162
239.00	2.156
239.17	2.150
239.33	2.143
239.50	2.137
239.67	2.131
239.83	2.124
240.00	2.118

TIME hrs	FLOW cms
240.17	2.110
240.33	2.103
240.50	2.095
240.67	2.088
240.83	2.081
241.00	2.074
241.17	2.066
241.33	2.059
241.50	2.052
241.67	2.044
241.83	2.037
242.00	2.029
242.17	2.022
242.33	2.014
242.50	2.007
242.67	1.999
242.83	1.992
243.00	1.984
243.17	1.976
243.33	1.968
243.50	1.961
243.67	1.953
243.83	1.945
244.00	1.937
244.17	1.930
244.33	1.922
244.50	1.914
244.67	1.906
244.83	1.898
245.00	1.890
245.17	1.883
245.33	1.875
245.50	1.867
245.67	1.859
245.83	1.851
246.00	1.843
246.17	1.835
246.33	1.828
246.50	1.820
246.67	1.812
246.83	1.804
247.00	1.796
247.17	1.789
247.33	1.781
247.50	1.773
247.67	1.765
247.83	1.758
248.00	1.750
248.17	1.742
248.33	1.734
248.50	1.727
248.67	1.719
248.83	1.711
249.00	1.704
249.17	1.696
249.33	1.689
249.50	1.681
249.67	1.673
249.83	1.666
250.00	1.658
250.17	1.651
250.33	1.643
250.50	1.636
250.67	1.628
250.83	1.621
251.00	1.613
251.17	1.606
251.33	1.598
251.50	1.591
251.67	1.584
251.83	1.576
252.00	1.569
252.17	1.562
252.33	1.554
252.50	1.547
252.67	1.540
252.83	1.533
253.00	1.525
253.17	1.518
253.33	1.511
253.50	1.504
253.67	1.497
253.83	1.490
254.00	1.482
254.17	1.475
254.33	1.468
254.50	1.461
254.67	1.454
254.83	1.447
255.00	1.440
255.17	1.433
255.33	1.426
255.50	1.419
255.67	1.412
255.83	1.406
256.00	1.399
256.17	1.392
256.33	1.385
256.50	1.378
256.67	1.371
256.83	1.365
257.00	1.358
257.17	1.351
257.33	1.344
257.50	1.338
257.67	1.331
257.83	1.324
258.00	1.318
258.17	1.311
258.33	1.304
258.50	1.298
258.67	1.291
258.83	1.285
259.00	1.278
259.17	1.272
259.33	1.265
259.50	1.259
259.67	1.252
259.83	1.246
260.00	1.240
260.17	1.233
260.33	1.227
260.50	1.221
260.67	1.214
260.83	1.208
261.00	1.202
261.17	1.196
261.33	1.189
261.50	1.183
261.67	1.177
261.83	1.171

TIME hrs	FLOW cms
262.00	1.165
262.17	1.159
262.33	1.153
262.50	1.147
262.67	1.141
262.83	1.135
263.00	1.129
263.17	1.123
263.33	1.117
263.50	1.111
263.67	1.105
263.83	1.099
264.00	1.094
264.17	1.088
264.33	1.083
264.50	1.077
264.67	1.072
264.83	1.067
265.00	1.062
265.17	1.057
265.33	1.052
265.50	1.047
265.67	1.042
265.83	1.038
266.00	1.033
266.17	1.029
266.33	1.024
266.50	1.020
266.67	1.016
266.83	1.012
267.00	1.007
267.17	1.003
267.33	0.999
267.50	0.995
267.67	0.991
267.83	0.987
268.00	0.983
268.17	0.979
268.33	0.975
268.50	0.972
268.67	0.968
268.83	0.964
269.00	0.960
269.17	0.957
269.33	0.953
269.50	0.949
269.67	0.945
269.83	0.942
270.00	0.938
270.17	0.935
270.33	0.931
270.50	0.927
270.67	0.924
270.83	0.921
271.00	0.917
271.17	0.914
271.33	0.911
271.50	0.907
271.67	0.904
271.83	0.901
272.00	0.897
272.17	0.894
272.33	0.891
272.50	0.887
272.67	0.884
272.83	0.881
273.00	0.877
273.17	0.874
273.33	0.870
273.50	0.867
273.67	0.864
273.83	0.860
274.00	0.857
274.17	0.853
274.33	0.850
274.50	0.847
274.67	0.843
274.83	0.840
275.00	0.836
275.17	0.833
275.33	0.829
275.50	0.826
275.67	0.822
275.83	0.819
276.00	0.815
276.17	0.812
276.33	0.809
276.50	0.805
276.67	0.802
276.83	0.798
277.00	0.795
277.17	0.791
277.33	0.788
277.50	0.784
277.67	0.780
277.83	0.777
278.00	0.773
278.17	0.770
278.33	0.766
278.50	0.763
278.67	0.759
278.83	0.756
279.00	0.752
279.17	0.749
279.33	0.745
279.50	0.742
279.67	0.738
279.83	0.734
280.00	0.731
280.17	0.727
280.33	0.724
280.50	0.720
280.67	0.717
280.83	0.713
281.00	0.710
281.17	0.706
281.33	0.702
281.50	0.699
281.67	0.695
281.83	0.692
282.00	0.688
282.17	0.685
282.33	0.681
282.50	0.678
282.67	0.674
282.83	0.670
283.00	0.667
283.17	0.663
283.33	0.660
283.50	0.656
283.67	0.653

TIME hrs	FLOW cms
283.83	0.649
284.00	0.646
284.17	0.642
284.33	0.639
284.50	0.635
284.67	0.632
284.83	0.628
285.00	0.625
285.17	0.621
285.33	0.618
285.50	0.614
285.67	0.611
285.83	0.607
286.00	0.604
286.17	0.600
286.33	0.597
286.50	0.593
286.67	0.590
286.83	0.586
287.00	0.583
287.17	0.579
287.33	0.576
287.50	0.573
287.67	0.569
287.83	0.566
288.00	0.562
288.17	0.559
288.33	0.556
288.50	0.552
288.67	0.549
288.83	0.545
289.00	0.542
289.17	0.539
289.33	0.535
289.50	0.532
289.67	0.529
289.83	0.525
290.00	0.522
290.17	0.519
290.33	0.515
290.50	0.512
290.67	0.509
290.83	0.506
291.00	0.502
291.17	0.499
291.33	0.496
291.50	0.493
291.67	0.490
291.83	0.486
292.00	0.483
292.17	0.480
292.33	0.477
292.50	0.474
292.67	0.470
292.83	0.467
293.00	0.464
293.17	0.461
293.33	0.458
293.50	0.455
293.67	0.452
293.83	0.449
294.00	0.446
294.17	0.443
294.33	0.440
294.50	0.437
294.67	0.434
294.83	0.431
295.00	0.428
295.17	0.425
295.33	0.422
295.50	0.419
295.67	0.416
295.83	0.413
296.00	0.410
296.17	0.407
296.33	0.404
296.50	0.401
296.67	0.398
296.83	0.396
297.00	0.393
297.17	0.390
297.33	0.387
297.50	0.384
297.67	0.381
297.83	0.379
298.00	0.376
298.17	0.373
298.33	0.370
298.50	0.368
298.67	0.365
298.83	0.362
299.00	0.360
299.17	0.357
299.33	0.354
299.50	0.352
299.67	0.349
299.83	0.347
300.00	0.344
300.17	0.341
300.33	0.339
300.50	0.336
300.67	0.334
300.83	0.331
301.00	0.329
301.17	0.326
301.33	0.324
301.50	0.321
301.67	0.319
301.83	0.316
302.00	0.314
302.17	0.311
302.33	0.309
302.50	0.307
302.67	0.304
302.83	0.302
303.00	0.299
303.17	0.297
303.33	0.295
303.50	0.292
303.67	0.290
303.83	0.288
304.00	0.286
304.17	0.283
304.33	0.281
304.50	0.279
304.67	0.277
304.83	0.274
305.00	0.272
305.17	0.270
305.33	0.268
305.50	0.266

TIME hrs	FLOW cms
305.67	0.264
305.83	0.262
306.00	0.259
306.17	0.257
306.33	0.255
306.50	0.253
306.67	0.251
306.83	0.249
307.00	0.247
307.17	0.245
307.33	0.243
307.50	0.241
307.67	0.239
307.83	0.237
308.00	0.235
308.17	0.233
308.33	0.231
308.50	0.229
308.67	0.227
308.83	0.226
309.00	0.224
309.17	0.222
309.33	0.220
309.50	0.218
309.67	0.216
309.83	0.214
310.00	0.213
310.17	0.211
310.33	0.209
310.50	0.207
310.67	0.206
310.83	0.204
311.00	0.202
311.17	0.200
311.33	0.199
311.50	0.197
311.67	0.195
311.83	0.194
312.00	0.192
312.17	0.190
312.33	0.189
312.50	0.187
312.67	0.185
312.83	0.184
313.00	0.182
313.17	0.181
313.33	0.179
313.50	0.178
313.67	0.176
313.83	0.175
314.00	0.173
314.17	0.172
314.33	0.170
314.50	0.169
314.67	0.167
314.83	0.166
315.00	0.164
315.17	0.163
315.33	0.161
315.50	0.160
315.67	0.158
315.83	0.157
316.00	0.156
316.17	0.154
316.33	0.153
316.50	0.152
316.67	0.150
316.83	0.149
317.00	0.148
317.17	0.146
317.33	0.145
317.50	0.144
317.67	0.142
317.83	0.141
318.00	0.140
318.17	0.139
318.33	0.137
318.50	0.136
318.67	0.135
318.83	0.134
319.00	0.133
319.17	0.131
319.33	0.130
319.50	0.129
319.67	0.128
319.83	0.127
320.00	0.125
320.17	0.124
320.33	0.123
320.50	0.122
320.67	0.121
320.83	0.120
321.00	0.119
321.17	0.118
321.33	0.117
321.50	0.116
321.67	0.115
321.83	0.113
322.00	0.112
322.17	0.111
322.33	0.110
322.50	0.109
322.67	0.108
322.83	0.107
323.00	0.106
323.17	0.105
323.33	0.104
323.50	0.103
323.67	0.103
323.83	0.102
324.00	0.101
324.17	0.100
324.33	0.099
324.50	0.098
324.67	0.097
324.83	0.096
325.00	0.095
325.17	0.094
325.33	0.093
325.50	0.093
325.67	0.092
325.83	0.091
326.00	0.090
326.17	0.089
326.33	0.088
326.50	0.087
326.67	0.087
326.83	0.086
327.00	0.085
327.17	0.084
327.33	0.083

TIME hrs	FLOW cms
327.50	0.083
327.67	0.082
327.83	0.081
328.00	0.080
328.17	0.080
328.33	0.079
328.50	0.078
328.67	0.077
328.83	0.077
329.00	0.076
329.17	0.075
329.33	0.074
329.50	0.074
329.67	0.073
329.83	0.072
330.00	0.072
330.17	0.071
330.33	0.070
330.50	0.070
330.67	0.069
330.83	0.068
331.00	0.068
331.17	0.067
331.33	0.066
331.50	0.066
331.67	0.065
331.83	0.064
332.00	0.064
332.17	0.063
332.33	0.063
332.50	0.062
332.67	0.061
332.83	0.061
333.00	0.060
333.17	0.060
333.33	0.059
333.50	0.059
333.67	0.058
333.83	0.057
334.00	0.057
334.17	0.056
334.33	0.056
334.50	0.055
334.67	0.055
334.83	0.054
335.00	0.054
335.17	0.053
335.33	0.053
335.50	0.052
335.67	0.052
335.83	0.051
336.00	0.051
336.17	0.050
336.33	0.050
336.50	0.049
336.67	0.049
336.83	0.048
337.00	0.048
337.17	0.047
337.33	0.047
337.50	0.046
337.67	0.046
337.83	0.045
338.00	0.045
338.17	0.045
338.33	0.044
338.50	0.044
338.67	0.043
338.83	0.043
339.00	0.042
339.17	0.042
339.33	0.042
339.50	0.041
339.67	0.041
339.83	0.040
340.00	0.040
340.17	0.040
340.33	0.039
340.50	0.039
340.67	0.038
340.83	0.038
341.00	0.038
341.17	0.037
341.33	0.037
341.50	0.037
341.67	0.036
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342.33	0.035
342.50	0.034
342.67	0.034
342.83	0.034
343.00	0.033
343.17	0.033
343.33	0.033
343.50	0.032
343.67	0.032
343.83	0.032
344.00	0.032
344.17	0.031
344.33	0.031
344.50	0.031
344.67	0.030
344.83	0.030
345.00	0.030
345.17	0.029
345.33	0.029
345.50	0.029
345.67	0.029
345.83	0.028
346.00	0.028
346.17	0.028
346.33	0.027
346.50	0.027
346.67	0.027
346.83	0.027
347.00	0.026
347.17	0.026
347.33	0.026
347.50	0.026
347.67	0.025
347.83	0.025
348.00	0.025
348.17	0.025
348.33	0.024
348.50	0.024
348.67	0.024
348.83	0.024
349.00	0.023
349.17	0.023

TIME hrs	FLOW cms
349.33	0.023
349.50	0.023
349.67	0.022
349.83	0.022
350.00	0.022
350.17	0.022
350.33	0.022
350.50	0.021
350.67	0.021
350.83	0.021
351.00	0.021
351.17	0.020
351.33	0.020
351.50	0.020
351.67	0.020
351.83	0.020
352.00	0.019
352.17	0.019
352.33	0.019
352.50	0.019
352.67	0.019
352.83	0.019
353.00	0.018
353.17	0.018
353.33	0.018
353.50	0.018
353.67	0.018
353.83	0.017
354.00	0.017
354.17	0.017
354.33	0.017
354.50	0.017
354.67	0.017
354.83	0.016
355.00	0.016
355.17	0.016
355.33	0.016
355.50	0.016
355.67	0.016
355.83	0.015
356.00	0.015
356.17	0.015
356.33	0.015
356.50	0.015
356.67	0.015
356.83	0.015
357.00	0.014
357.17	0.014
357.33	0.014
357.50	0.014
357.67	0.014
357.83	0.014
358.00	0.014
358.17	0.013
358.33	0.013
358.50	0.013
358.67	0.013
358.83	0.013
359.00	0.013
359.17	0.013
359.33	0.012
359.50	0.012
359.67	0.012
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360.50	0.012
360.67	0.011
360.83	0.011
361.00	0.011
361.17	0.011
361.33	0.011
361.50	0.011
361.67	0.011
361.83	0.011
362.00	0.011
362.17	0.010
362.33	0.010
362.50	0.010
362.67	0.010
362.83	0.010
363.00	0.010
363.17	0.010
363.33	0.010
363.50	0.010
363.67	0.010
363.83	0.009
364.00	0.009
364.17	0.009
364.33	0.009
364.50	0.009
364.67	0.009
364.83	0.009
365.00	0.009
365.17	0.009
365.33	0.009
365.50	0.009
365.67	0.008
365.83	0.008
366.00	0.008
366.17	0.008
366.33	0.008
366.50	0.008
366.67	0.008
366.83	0.008
367.00	0.008
367.17	0.008
367.33	0.008
367.50	0.008
367.67	0.007
367.83	0.007
368.00	0.007
368.17	0.007
368.33	0.007
368.50	0.007
368.67	0.007
368.83	0.007
369.00	0.007
369.17	0.007
369.33	0.007
369.50	0.007
369.67	0.007
369.83	0.007
370.00	0.006
370.17	0.006
370.33	0.006
370.50	0.006
370.67	0.006
370.83	0.006
371.00	0.006

TIME hrs	FLOW cms
371.17	0.006
371.33	0.006
371.50	0.006
371.67	0.006
371.83	0.006
372.00	0.006
372.17	0.006
372.33	0.006
372.50	0.006
372.67	0.005
372.83	0.005
373.00	0.005
373.17	0.005
373.33	0.005
373.50	0.005
373.67	0.005
373.83	0.005
374.00	0.005
374.17	0.005
374.33	0.005
374.50	0.005
374.67	0.005
374.83	0.005
375.00	0.005
375.17	0.005
375.33	0.005
375.50	0.005
375.67	0.005
375.83	0.005
376.00	0.004
376.17	0.004
376.33	0.004
376.50	0.004
376.67	0.004
376.83	0.004
377.00	0.004
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377.50	0.004
377.67	0.004
377.83	0.004
378.00	0.004
378.17	0.004
378.33	0.004
378.50	0.004
378.67	0.004
378.83	0.004
379.00	0.004
379.17	0.004
379.33	0.004
379.50	0.004
379.67	0.004
379.83	0.004
380.00	0.004
380.17	0.003
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380.50	0.003
380.67	0.003
380.83	0.003
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381.17	0.003
381.33	0.003
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381.67	0.003
381.83	0.003
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382.17	0.003
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384.50	0.003
384.67	0.003
384.83	0.003
385.00	0.003
385.17	0.003
385.33	0.003
385.50	0.003
385.67	0.002
385.83	0.002
386.00	0.002
386.17	0.002
386.33	0.002
386.50	0.002
386.67	0.002
386.83	0.002
387.00	0.002
387.17	0.002
387.33	0.002
387.50	0.002
387.67	0.002
387.83	0.002
388.00	0.002
388.17	0.002
388.33	0.002
388.50	0.002
388.67	0.002
388.83	0.002
389.00	0.002
389.17	0.002
389.33	0.002
389.50	0.002
389.67	0.002
389.83	0.002
390.00	0.002
390.17	0.002
390.33	0.002
390.50	0.002
390.67	0.002
390.83	0.002
391.00	0.002
391.17	0.002
391.33	0.002
391.50	0.002
391.67	0.002
391.83	0.002
392.00	0.002
392.17	0.002
392.33	0.002
392.50	0.002
392.67	0.002
392.83	0.002

TIME hrs	FLOW cms
393.00	0.002
393.17	0.002
393.33	0.002
393.50	0.002
393.67	0.002
393.83	0.002
394.00	0.001
394.17	0.001
394.33	0.001
394.50	0.001
394.67	0.001
394.83	0.001
395.00	0.001
395.17	0.001
395.33	0.001
395.50	0.001
395.67	0.001
395.83	0.001
396.00	0.001
396.17	0.001
396.33	0.001
396.50	0.001
396.67	0.001
396.83	0.001
397.00	0.001
397.17	0.001
397.33	0.001
397.50	0.001
397.67	0.001
397.83	0.001
398.00	0.001
398.17	0.001
398.33	0.001
398.50	0.001
398.67	0.001
398.83	0.001
399.00	0.001
399.17	0.001
399.33	0.001
399.50	0.001
399.67	0.001
399.83	0.001
400.00	0.001
400.17	0.001
400.33	0.001
400.50	0.001
400.67	0.001
400.83	0.001
401.00	0.001
401.17	0.001
401.33	0.001
401.50	0.001
401.67	0.001
401.83	0.001
402.00	0.001
402.17	0.001
402.33	0.001
402.50	0.001
402.67	0.001
402.83	0.001
403.00	0.001
403.17	0.001
403.33	0.001
403.50	0.001
403.67	0.001
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404.50	0.001
404.67	0.001
404.83	0.001
405.00	0.001
405.17	0.001
405.33	0.001
405.50	0.001
405.67	0.001
405.83	0.001
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406.17	0.001
406.33	0.001
406.50	0.001
406.67	0.001
406.83	0.001
407.00	0.001
407.17	0.001
407.33	0.001
407.50	0.001
407.67	0.001
407.83	0.001
408.00	0.001
408.17	0.001
408.33	0.001
408.50	0.001
408.67	0.001
408.83	0.001
409.00	0.001
409.17	0.001
409.33	0.001
409.50	0.001
409.67	0.001
409.83	0.001
410.00	0.001
410.17	0.001
410.33	0.001
410.50	0.001
410.67	0.001
410.83	0.001
411.00	0.001
411.17	0.001
411.33	0.001
411.50	0.001
411.67	0.001
411.83	0.001
412.00	0.001
412.17	0.001
412.33	0.001
412.50	0.001
412.67	0.000
412.83	0.000
413.00	0.000
413.17	0.000
413.33	0.000
413.50	0.000
413.67	0.000
413.83	0.000
414.00	0.000
414.17	0.000
414.33	0.000
414.50	0.000
414.67	0.000

TIME hrs	FLOW cms
414.83	0.000
415.00	0.000
415.17	0.000
415.33	0.000
415.50	0.000
415.67	0.000
415.83	0.000
416.00	0.000
416.17	0.000
416.33	0.000
416.50	0.000
416.67	0.000
416.83	0.000
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417.17	0.000
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420.67	0.000
420.83	0.000
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421.33	0.000
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422.17	0.000
422.33	0.000
422.50	0.000
422.67	0.000
422.83	0.000
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423.50	0.000
423.67	0.000
423.83	0.000
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425.33	0.000
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425.83	0.000
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433.83	0.000
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435.50	0.000
435.67	0.000
435.83	0.000
436.00	0.000
436.17	0.000
436.33	0.000
436.50	0.000

TIME hrs	FLOW cms
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437.17	0.000
437.33	0.000
437.50	0.000
437.67	0.000
437.83	0.000
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439.83	0.000
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441.83	0.000
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456.83	0.000
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457.33	0.000
457.50	0.000
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458.17	0.000
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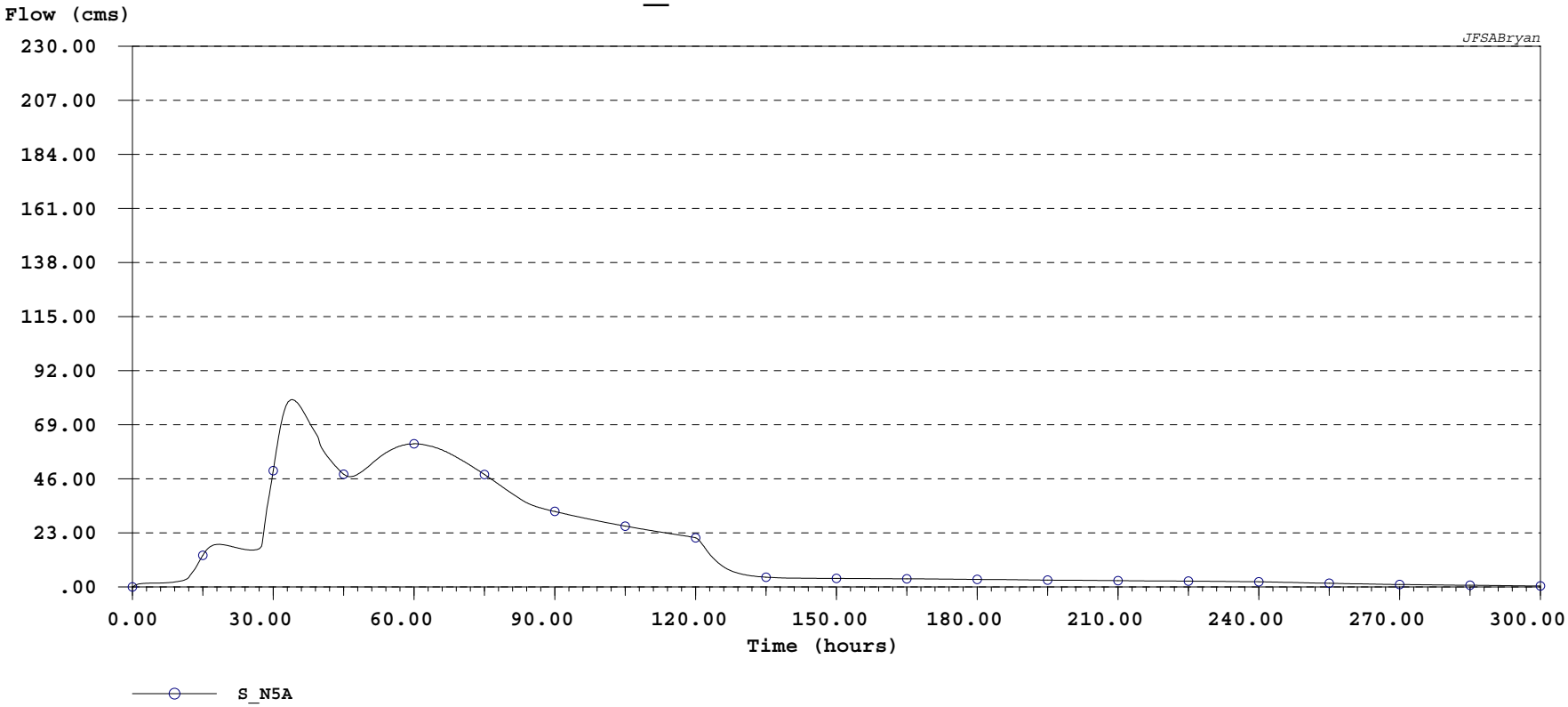
S_N5A (JR SUMMER)



Hydrograph Statistics:

Legend	Filename & Comment	Time Step (min)	Drainage Area (ha)	Peak Flow (cms)	Time to Peak (hrs)	Runoff Volume (mm)	Runoff Volume (cu.m)	Duration of flow (hrs)	Average flow (cms)
——○——	H-S_N5A.100 : S_N5A	10.00	46656.00	79.695	34.000	37.50	1.750E+07	300.000	16.200

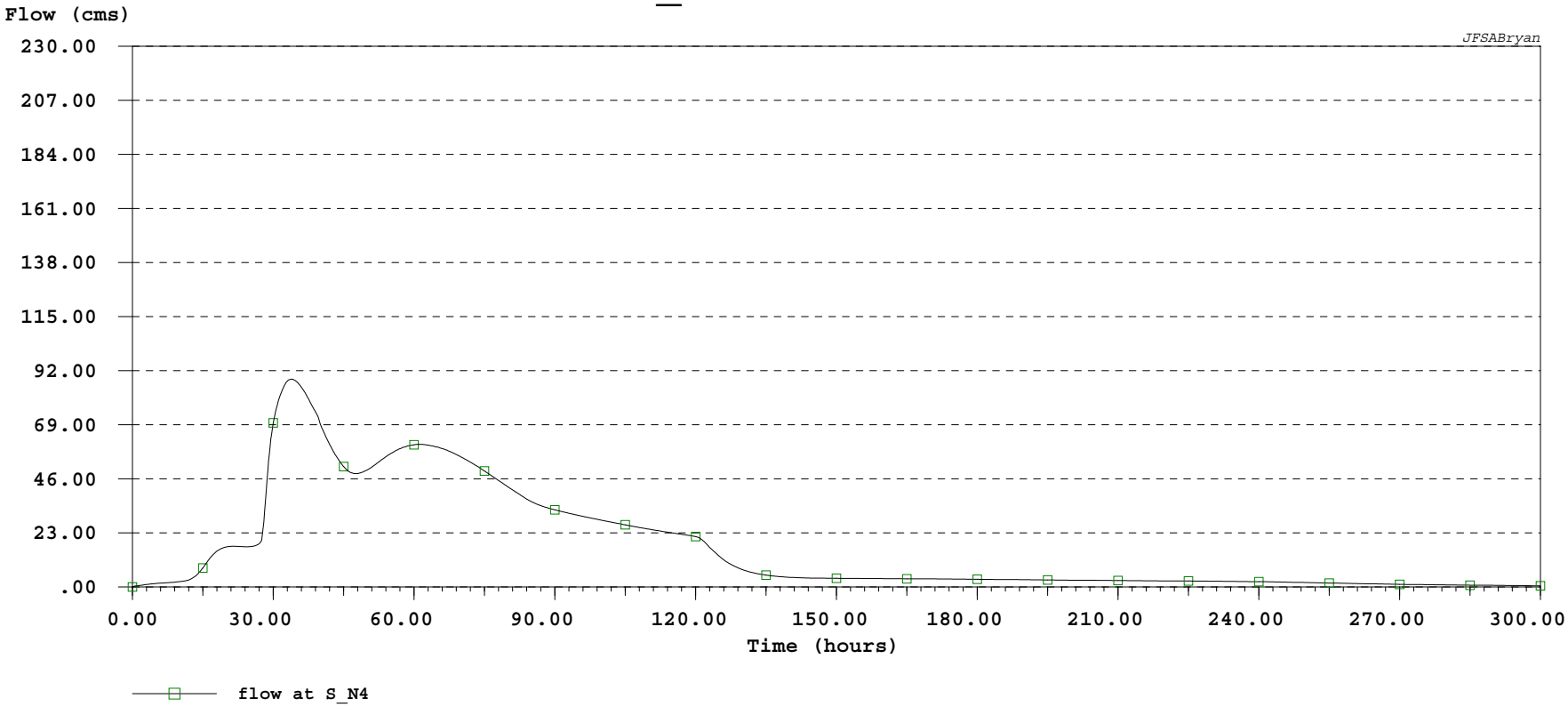
Hydrograph Table:

Hydrograph Filename : Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\JRSUMM~1\H-S_N5A.100

Comment in file : S_N5A

TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
0.00	0.000	21.83	16.864	43.67	50.528	65.50	58.595	87.33	33.380	109.17	24.452	131.00	5.005	152.83	3.594	174.67	3.307	196.50	2.896	218.33	2.557	240.17	2.188	262.00	1.290	283.83	0.738	305.67	0.328	327.50	0.108	349.33	0.031	371.17	0.008	393.00	0.002	414.83	0.001	436.67	0.000
0.17	0.147	22.00	16.788	43.83	50.174	65.67	58.436	87.50	33.329	109.33	24.384	131.17	4.950	153.00	3.593	174.83	3.304	196.67	2.893	218.50	2.554	240.33	2.183	262.17	1.283	284.00	0.735	305.83	0.325	327.67	0.107	349.50	0.030	371.33	0.008	393.17	0.002	415.00	0.001	436.83	0.000
0.33	0.366	22.17	16.712	44.00	49.822	65.83	58.388	87.67	33.255	109.50	24.326	131.33	4.897	153.17	3.592	175.00	3.302	196.83	2.890	218.67	2.552	240.50	2.177	262.33	1.277	284.17	0.731	306.00	0.323	327.83	0.106	349.67	0.030	371.50	0.008	393.33	0.002	415.17	0.001	437.00	0.000
0.50	0.653	22.33	16.622	44.17	49.481	66.00	58.322	87.83	33.128	109.67	24.266	131.50	4.847	153.33	3.591	175.17	3.299	197.00	2.888	218.83	2.549	240.67	2.171	262.50	1.271	284.33	0.728	306.17	0.320	328.00	0.105	349.83	0.030	371.67	0.008	393.50	0.002	415.33	0.001	437.17	0.000
0.67	0.831	22.50	16.551	44.33	49.156	66.17	58.123	88.00	33.028	109.83	24.223	131.67	4.793	153.50	3.590	175.33	3.297	197.17	2.885	219.00	2.547	240.83	2.166	262.67	1.265	284.50	0.725	306.33	0.318	328.17	0.104	350.00	0.029	371.83	0.008	393.67	0.002	415.50	0.001	437.33	0.000
0.83	0.956	22.67	16.481	44.50	48.830	66.33	57.925	88.17	32.978	110.00	24.174	131.83	4.749	153.67	3.589	175.50	3.295	197.33	2.883	219.17	2.545	241.00	2.160	262.83	1.258	284.67	0.721	306.50	0.316	328.33	0.103	350.17	0.029	372.00	0.008	393.83	0.002	415.67	0.001	437.50	0.000
1.00	1.064	22.83	16.395	44.67	48.526	66.50	57.740	88.33	32.908	110.17	24.107	132.00	4.706	153.83	3.588	175.67	3.291	197.50	2.881	219.33	2.543	241.17	2.154	263.00	1.253	284.83	0.717	306.67	0.313	328.50	0.102	350.33	0.029	372.17	0.008	394.00	0.002	415.83	0.001	437.67	0.000
1.17	1.161	23.00	16.325	44.83	48.201	66.67	57.674	88.50	32.789	110.33	24.049	132.17	4.663	154.00	3.587	175.83	3.287	197.67	2.879	219.50	2.541	241.33	2.148	263.17	1.247	285.00	0.714	306.83	0.311	328.67	0.101	350.50	0.028	372.33	0.008	394.17	0.002	416.00	0.001	437.83	0.000
1.33	1.241	23.17	16.257	45.00	47.969	66.83	57.591	88.67	32.694	110.50	23.990	132.33	4.622	154.17	3.586	176.00	3.283	197.83	2.876	219.67	2.539	241.50	2.142	263.33	1.240	285.17	0.710	307.00	0.308	328.83	0.100	350.67	0.028	372.50	0.007	394.33	0.002	416.17	0.001	438.00	0.000
1.50	1.307	23.33	16.179	45.17	47.754	67.00	57.367	88.83	32.600	110.67	23.948	132.50	4.583	154.33	3.584	176.17	3.281	198.00	2.873	219.83	2.537	241.67	2.136	263.50	1.235	285.33	0.707	307.17	0.306	329.00	0.099	350.83	0.028	372.67	0.007	394.50	0.002	416.33	0.001	438.17	0.000
1.67	1.360	23.50	16.119	45.33	47.511	67.17	57.141	89.00	32.564	110.83	23.899	132.67	4.545	154.50	3.583	176.33	3.278	198.17	2.869	220.00	2.534	241.83	2.130	263.67	1.228	285.50	0.703	307.33	0.304	329.17	0.098	351.00	0.028	372.83	0.007	394.67	0.002	416.50	0.001	438.33	0.000
1.83	1.404	23.67	16.062	45.50	47.313	67.33	57.028	89.17	32.509	111.00	23.833	132.83	4.509	154.67	3.582	176.50	3.275	198.33	2.866	220.17	2.531	242.00	2.124	263.83	1.222	285.67	0.700	307.50	0.301	329.33	0.097	351.17	0.027	373.00	0.007	394.83	0.002	416.67	0.001	438.50	0.000
2.00	1.439	23.83	15.997	45.67	47.160	67.50	56.909	89.33	32.392	111.17	23.776	133.00	4.475	154.83	3.581	176.67	3.273	198.50	2.863	220.33	2.528	242.17	2.118	264.00	1.217	285.83	0.696	307.67	0.299	329.50	0.097	351.33	0.027	373.17	0.007	395.00	0.002	416.83	0.001	438.67	0.000
2.17	1.468	24.00	15.946	45.83	47.047	67.67	56.674	89.50	32.302	111.33	23.718	133.17	4.441	155.00	3.580	176.83	3.270	198.67	2.860	220.50	2.525	242.33	2.111	264.17	1.211	286.00	0.693	307.83	0.297	329.67	0.096	351.50	0.027	373.33	0.007	395.17	0.002	417.00	0.001	438.83	0.000
2.33	1.492	24.17	15.897	46.00	46.963	67.83	56.439	89.67	32.212	111.50	23.675	133.33	4.409	155.17	3.579	177.00	3.268	198.83	2.857	220.67	2.523	242.50	2.105	264.33	1.205	286.17	0.689	308.00	0.294	329.83	0.095	351.67	0.027	373.50	0.007	395.33	0.002	417.17	0.001	439.00	0.000
2.50	1.512	24.33	15.841	46.17	46.920	68.00	56.333	89.83	32.173	111.67	23.628	133.50	4.379	155.33	3.577	177.17	3.265	199.00	2.855	220.83	2.520	242.67	2.099	264.50	1.199	286.33	0.686	308.17	0.292	330.00	0.094	351.83	0.026	373.67	0.007	395.50	0.002	417.33	0.001	439.17	0.000
2.67	1.529	24.50	15.799	46.33	46.912	68.17	56.226	90.00	32.117	111.83	23.562	133.67	4.349	155.50	3.576	177.33	3.263	199.17	2.853	221.00	2.518	242.83	2.092	264.67	1.193	286.50	0.682	308.33	0.290	330.17	0.093	352.00	0.026	373.83	0.007	395.67	0.002	417.50	0.000	439.33	0.000
2.83	1.543	24.67	15.765	46.50	46.923	68.33	55.984	90.17	32.006	112.00	23.506	133.83	4.321	155.67	3.575	177.50	3.260	199.33	2.851	221.17	2.516	243.00	2.086	264.83	1.188	286.67	0.679	308.50	0.288	330.33	0.092	352.17	0.026	374.00	0.007	395.83	0.002	417.67	0.000	439.50	0.000
3.00	1.555	24.83	15.728	46.67	46.963	68.50	55.739	90.33	31.918	112.17	23.449	134.00	4.294	155.83	3.574	177.67	3.257	199.50	2.848	221.33	2.514	243.17	2.079	265.00	1.182	286.83	0.676	308.67	0.285	330.50	0.091	352.33	0.026	374.17	0.007	396.00	0.002	417.83	0.000	439.67	0.000
3.17	1.565	25.00	15.699	46.83	47.033	68.67	55.624	90.50	31.832	112.33	23.407	134.17	4.268	156.00	3.571	177.83	3.252	199.67	2.846	221.50	2.512	243.33	2.072	265.17	1.176	287.00	0.672	308.83	0.283	330.67	0.090	352.50	0.025	374.33	0.007	396.17	0.002	418.00	0.000	439.83	0.000
3.33	1.574	25.17	15.680	47.00	47.118	68.83	55.502	90.67	31.794	112.50	23.360	134.33	4.244	156.17	3.567	178.00	3.249	199.83	2.843	221.67	2.510	243.50	2.066	265.33	1.171	287.17	0.669	309.00	0.281	330.83	0.090	352.67	0.025	374.50	0.007	396.33	0.002	418.17	0.000	440.00	0.000
3.50	1.583	25.33	15.681	47.17	47.163	69.00	55.238	90.83	31.740	112.67	23.295	134.50	4.220	156.33	3.564	178.17	3.246	200.00	2.839	221.83	2.507	243.67	2.059	265.50	1.165	287.33	0.665	309.17	0.279	331.00	0.089	352.83	0.025	374.67	0.007	396.50	0.002	418.33	0.000	440.17	0.000
3.67	1.591	25.50	15.683	47.33	47.259	69.17	54.973	91.00	31.632	112.83	23.240	134.67	4.197	156.50	3.562	178.33	3.243	200.17	2.836	222.00	2.504	243.83	2.052	265.67	1.160	287.50	0.662	309.33	0.276	331.17	0.088	353.00	0.025	374.83	0.006	396.67	0.002	418.50	0.000	440.33	0.000
3.83	1.598	25.67	15.689	47.50	47.449	69.33	54.861	91.17	31.546	113.00	23.183	134.83	4.175	156.67	3.561	178.50	3.241	200.33	2.833	222.17	2.501	244.00	2.045	265.83	1.154	287.67	0.658	309.50	0.274	331.33	0.087	353.17	0.024	375.00	0.006	396.83	0.002	418.67	0.000	440.50	0.000
4.00	1.605	25.83	15.707	47.67	47.570	69.50	54.750	91.33	31.457	113.17	23.142	135.00	4.154	156.83	3.559	178.67	3.238	200.50	2.830	222.33	2.499	244.17	2.039	266.00	1.149	287.83	0.655	309.67	0.272	331.50	0.086	353.33	0.024	375.17	0.006	397.00	0.002	418.83	0.000	440.67	0.000
4.17	1.612	26.00	15.730	47.83	47.730	69.67	54.484	91.50	31.416	113.33	23.095	135.17	4.130	157.00	3.558	178.83	3.235	200.67	2.828	222.50	2.496	244.33	2.032	266.17	1.144	288.00	0.651	309.83	0.270	331.67	0.085	353.50	0.024	375.33	0.006	397.17	0.002	419.00	0.000	440.83	0.000
4.33	1.619	26.17	15.773	48.00	47.929	69.83	54.216	91.67	31.357	113.50	23.031	135.33	4.114	157.17	3.556	179.00	3.233	200.83	2.825	222.67	2.494	244.50	2.025	266.33	1.138	288.17	0.648	310.00	0.268	331.83	0.085	353.67	0.024	375.50	0.006	397.33	0.002	419.17	0.000	441.00	0.000
4.50	1.625	26.33	15.832	48.17	48.146	70.00	54.099	91.83	31.247	113.67	22.976	135.50	4.098	157.33	3.555	179.17	3.230	201.00	2.823	222.83	2.492	244.67	2.017	266.50	1.133	288.33	0.644	310.17	0.266	332.00	0.084	353.83	0.023	375.67	0.006	397.50	0.002	419.33	0.000	441.17	0.000
4.67	1.632	26.50	15.899	48.33	48.360	70.17	53.982	92.00	31.159	113.83	22.920	135.67	4.076	157.50	3.553	179.33	3.228	201.17	2.821	223.00	2.490	244.83	2.008	266.67	1.128	288.50	0.641	310.33	0.263	332.17	0.083	354.00	0.023	375.83	0.006	397.67	0.002	419.50	0.000	441.33	0.000
4.83	1.639	26.67	15.991	48.50	48.567	70.33	53.711	92.17	31.073	114.00	22.880	135.83	4.061	157.67	3.552	179.50	3.224	201.33	2.819	223.17	2.488	245.00	2.000	266.83	1.122	288.67	0.637	310.50	0.261	332.33	0.082	354.17	0.023	376.00	0.006	397.83	0.002	419.67	0.000	441.50	0.000
5.00	1.647	26.83	16.116	48.67	48.783	70.50	53.461	92.33	31.034	114.17	22.833	136.00	4.046	157.83	3.550	179.67	3.220	201.50	2.816	223.33	2.486	245.17	1.990	267.00	1.118	288.83	0.634	310.67	0.259	332.50	0.082	354.33	0.023	376.17	0.006	398.00	0.002	419.83	0.000	441.67	0.000
5.17	1.654	27.00	16.253	48.83	49.008	70.67	53.348	92.50	30.979	114.33	22.771	136.17	4.027	158.00	3.549	179.83	3.216	201.67	2.814	223.50	2.484	245.33	1.981	267.17	1.112	289.00	0.631	310.83	0.257	332.67	0.081	354.50	0.022	376.33	0.006	398.17	0.002	420.00	0.000	441.83	0.000
5.33	1.662	27.17	16.521	49.00	49.234	70.83	53.180	92.67	30.870	114.50	22.717	136.33	4.013	158.17	3.548	180.00	3.214	201.83	2.810	223.67	2.481	245.50	1.974	267.33	1.107	289.17	0.627	311.00	0.255	332.83	0.080	354.67	0.022	376.50	0.006	398.33	0.002	420.17	0.000	442.00	0.000
5.50	1.670	27.33	16.894	49.17	49.475	71.00	52.900	92.83	30.780	114.67	22.661	136.50	3.996	158.33	3.546	180.17	3.211	202.00	2.807	223.83	2.478	245.67	1.965	267.50	1.103	289.33	0.624	311.17	0.253	333.00	0.079	354.83	0.022	376.67	0.006	398.50	0.002	420.33	0.000	442.17	0.000
5.67	1.678	27.50	17.298	49.33	49.723	71.17	52.748	93.00	30.689	114.83	22.621	136.67	3.977	158.50	3.545	180.33	3.209	202.17	2.804	224.00	2.475	245.83	1.956	267.67	1.098	289.50	0.620	311.33	0.251	333.17	0.079	355.00	0.022	376.83	0.006	398.67	0.002	420.50	0.000	442.33	0.000
5.83	1.687	27.67	18.722	49.50	49.974	71.33	52.556	93.17	30.641	115.00	22.575	136.83	3.962	158.67	3.543	180.50	3.206	202.33	2.801	224.17	2.473	246.00	1.950	267.83	1.094	289.67	0.617	311.50	0.249	333.33	0.078	355.17	0.022	377.00	0.006	398.83	0.001	420.67	0.000	442.50	0.000
6.00	1.696	27.83	21.044	49.67	50.235	71.50	52.281	93.33	30.581	115.17	22.514	137.00	3.949	158.83	3.542	180.67	3.203	202.50	2.799	224.33	2.470	246.17	1.941	268.00	1.089	289.83	0.614	311.67	0.247	333.50	0.077	355.33	0.021	377.17	0.006	399.00	0.001	420.83	0.000	442.67	0.000
6.17	1.706	28.00	23.581	49.83	50.503	71.67	52.136	93.50	30.480	115.33	22.460	137.17	3.934	159.00	3.540	180.83	3.201	202.67	2.796	224.50	2.468	246.33	1.933	268.17	1.085	290.00	0.611	311.83	0.245	333.67	0.076	355.50	0.021	377.33	0.006	399.17	0.001	421.00	0.000	442.83	0.000
6.33	1.716	28.17	26.117	50.00	50.769	71.83	51.946	93.67	30.399	115.50	22.406	137.33	3.921	159.17	3.539	181.00	3.198	202.83	2.794	224.67	2.466	246.50	1.927	268.33	1.080	290.17	0.608	312.00	0.243	333.83	0.076	355.67	0.021	377.50	0.006	399.33	0.001	421.17	0.000	443.00	0.000
6.50	1.727	28.33	28.758	50.17	51.045	72.00	51.668	93.83	30.318	115.67	22.365	137.50	3.908	159.33	3.537	181.17	3.196	203.00	2.792	224.83	2.464	246.67	1.918	268.50	1.076	290.33	0.605	312.17	0.241	334.00	0.075	355.83	0.021	377.67	0.005	399.50	0.001	421.33	0.000	443.17	0.000
6.67	1.739	28.50	31.429	50.33	51.324	72.17	51.518	94.00	30.262	115.83	22.320	137.67	3.897	159.50	3.534	181.33	3.192	203.17	2.789	225.00	2.462	246.83	1.911	268.67	1.072	290.50	0.602	312.33	0.239	334.17	0.074	356.00	0.020	377.83	0.005	399.67	0.001	421.50	0.000	443.33	0.000
6.83	1.752	28.67	33.678	50.50	51.602	72.33	51.325	94.17	30.199	116.00	22.258	137.83	3.886	159.67	3.530	181.50	3.188	203.33	2.787	225.17	2.460	247.00	1.905	268.83	1.067	290.67	0.598	312.50	0.237	334.33	0.073	356.17	0.020	378.00	0.005	399.83	0.001	421.67	0.000	443.50	0.000
7.00	1.766	28.83	35.573	50.67	51.901	72.50	51.044	94.33	30.109	116.17	22.204	138.00	3.876	159.83	3.527	181.67	3.184	203.50	2.784	225.33	2.457	247.17	1.897	269.00	1.063	290.83	0.595	312.67	0.235	334.50	0.073	356.33	0.020	378.17	0.005	400.00	0.001	421.83	0.000	443.67	0.000
7.17	1.782	29.00	37.435	50.83	52.199	72.67	50.889	94.50	30.036	116.33	22.149	138.17	3.865	160.00	3.525	181.83	3.182	203.67	2.781	225.50	2.455	247.33	1.889	269.17	1.059	291.00	0.592	312.83	0.233	334.67	0.072	356.50	0.020	378.33	0.005	400.17	0.001	422.00	0.000	443.83	0.000
7.33	1.799	29.17	39.354	51.00	52.475	72.83	50.690	94.67	29.960	116.50	22.108	138.33	3.855	160.17	3.523	182.00	3.179	203.83	2.778	225.67	2.452	247.50	1.883	269.33	1.055	291.17	0.588	313.00	0.231	334.83	0.071	356.67	0.020	378.50	0.005	400.33	0.001	422.17	0.000	444.00	0.000
7.50	1.818	29.33	41.239	51.17	52.760	73.00	50.403	94.83	29.907	116.67	22.062	138.50	3.846	160.33	3.521	182.17	3.176	204.00	2.775	225.83	2.449	247.67	1.875	269.50	1.051	291.33	0.585	313.17	0.229	335.00	0.071	356.83	0.019	378.67	0.005	400.50	0.001	422.33	0.000	444.17	0.000
7.67	1.839	29.50	43.075	51.33	53.047	73.17	50.248	95.00	29.846	116.83	22.000	138.67	3.837	160.50	3.519	182.33	3.174	204.17	2.772	226.00	2.447	247.83	1.867	269.67	1.046	291.50	0.582	313.33	0.228	335.17	0.070	357.00	0.019	378.83	0.005	400.67	0.001	422.50	0.000	444.33	0.000
7.83	1.861	29.67	45.087	51.50	53.327	73.33	50.049	95.17	29.760	117.00	21.946	138.83	3.828	160.67	3.517	182.50	3.171	204.33	2.770	226.17	2.445	248.00	1.862	269.83	1.042	291.67	0.578	313.50	0.226	335.33	0.069	357.17	0.019	379.00	0.005	400.83	0.001	422.67	0.000	444.50	0.000
8.00	1.886	29.83	47.273	51.67	53.612	73.50	49.762	95.33	29.689	117.17	21.891	139.00	3.820	160.83	3.516	182.67	3.169	204.50	2.767	226.33	2.442	248.17	1.853	270.00	1.038	291.83	0.575	313.67	0.224	335.50	0.069	357.33	0.019	379.17	0.005	401.00	0.001	422.83	0.000	444.67	0.000
8.17	1.913	30.00	49.476	51.83	53.892	73.67	49.606	95.50	29.614	117.33	21.850	139.17	3.812	161.00	3.514	182.83	3.166	204.67	2.765	226.50	2.440	248.33	1.846	270.17	1.034	292.00	0.572	313.83	0.222	335.67	0.068	357.50	0.019	379.33	0.005	401.17	0.001	423.00	0.000	444.83	0.000
8.33	1.943	30.17	51.683	52.00	54.168	73.83	49.406	95.67	29.562	117.50	21.802	139.33	3.805	161.17	3.512	183.00	3.163	204.83	2.762	226.67	2.438	248.50	1.840	270.33	1.030	292.17	0.568	314.00	0.220	335.83	0.067	357.67	0.019	379.50	0.005	401.33	0.001	423.17	0.000	445.00	0.000
8.50	1.976	30.33	53.865	52.17	54.443	74.00	49.118	95.83	29.501	117.67	21.736	139.50	3.798	161.33	3.511	183.17	3.160	205.00	2.760	226.83	2.436	248.67	1.832	270.50	1.026	292.33	0.565	314.17	0.218	336.00	0.067	357.83	0.018	379.67	0.005	401.50	0.001	423.33	0.000	445.17	0.000
8.67	2.013	30.50	56.052	52.33	54.714	74.17	48.959	96.00	29.415	117.83	21.678	139.67	3.792	161.50	3.509	183.33	3.155	205.17	2.758	227.00	2.433	248.83	1.824	270.67	1.022	292.50	0.562	314.33	0.216	336.17	0.066	358.00	0.018	379.83	0.005	401.67	0.001	423.50	0.000	445.33	0.000
8.83	2.053	30.67	58.142	52.50	54.975	74.33	48.757	96.17	29.344	118.00	21.619	139.83	3.785	161.67	3.507	183.50	3.152	205.33	2.755	227.17	2.431	249.00	1.818	270.83	1.018	292.67	0.558	314.50	0.215	336.33	0.066	358.17	0.018	380.00	0.005	401.83	0.001	423.67	0.000	445.50	0.000
9.00	2.096	30.83	60.113	52.67	55.232	74.50	48.467	96.33	29.269	118.17	21.576	140.00	3.779	161.83	3.506	183.67	3.149	205.50	2.752	227.33	2.429	249.17	1.810	271.00	1.014	292.83	0.555	314.67	0.213	336.50	0.065	358.33	0.018	380.17	0.005	402.00	0.001	423.83	0.000	445.67	0.000
9.17	2.145	31.00	62.110	52.83	55.470	74.67	48.306	96.50	29.215	118.33	21.530	140.17	3.773	162.00	3.504	183.83	3.146	205.67	2.749	227.50	2.426	249.33	1.803	271.17	1.010	293.00	0.552	314.83	0.211	336.67	0.064	358.50	0.018	380.33	0.005	402.17	0.001	424.00	0.000	445.83	0.000
9.33	2.198	31.17	64.030	53.00	55.705	74.83	48.101	96.67	29.154	118.50	21.467	140.33	3.767	162.17	3.502	184.00	3.144	205.83	2.746	227.67	2.423	249.50	1.797	271.33	1.006	293.17	0.548	315.00	0.209	336.83	0.064	358.67	0.017	380.50	0.005	402.33	0.001	424.17	0.000	446.00	0.000
9.50	2.257	31.33	65.853	53.17	55.943	75.00	47.806	96.83	29.067	118.67	21.406	140.50	3.760	162.33	3.499	184.17	3.141	206.00	2.744	227.83	2.421	249.67	1.789	271.50	1.002	293.33	0.545	315.17	0.208	337.00	0.063	358.83	0.017	380.67	0.005	402.50	0.001	424.33	0.000	446.17	0.000
9.67	2.313	31.50	67.684	53.33	56.179	75.17	47.641	97.00	28.995	118.83	21.345	140.67	3.755	162.50	3.495	184.33	3.139	206.17	2.741	228.00	2.418	249.83	1.781	271.67	0.998	293.50	0.542	315.33	0.206	337.17	0.062	359.00	0.017	380.83	0.004	402.67	0.001	424.50	0.000	446.33	0.000
9.83	2.361	31.67	69.365	53.50	56.406	75.33	47.432	97.17	28.920	119.00	21.303	140.83	3.750	162.67	3.492	184.50	3.136	206.33	2.739	228.17	2.416	250.00	1.775	271.83	0.994	293.67	0.538	315.50	0.204	337.33	0.062	359.17	0.017	381.00	0.004	402.83	0.001	424.67	0.000	446.50	0.000
10.00	2.409	31.83	70.900	53.67	56.637	75.50	47.133	97.33	28.868	119.17	21.259	141.00	3.745	162.83	3.490	184.67	3.134	206.50	2.736	228.33	2.413	250.17	1.767	272.00	0.991	293.83	0.535	315.67	0.202	337.50	0.061	359.33	0.017	381.17	0.004	403.00	0.001	424.83	0.000	446.67	0.000
10.17	2.462	32.00	72.409	53.83	56.859	75.67	46.964	97.50	28.807	119.33	21.199	141.17	3.741	163.00	3.488	184.83	3.131	206.67	2.734	228.50	2.411	250.33	1.759	272.17	0.987	294.00	0.532	315.83	0.201	337.67	0.061	359.50	0.017	381.33	0.004	403.17	0.001	425.00	0.000	446.83	0.000
10.33	2.525	32.17	73.704	54.00	57.134	75.83	46.753	97.67	28.721	119.50	21.140	141.33	3.736	163.17	3.486	185.00	3.127	206.83	2.731	228.67	2.409	250.50	1.753	272.33	0.983	294.17	0.529	316.00	0.199	337.83	0.060	359.67	0.016	381.50	0.004	403.33	0.001	425.17	0.000	447.00	0.000
10.50	2.598	32.33	74.807	54.17	57.267	76.00	46.451	97.83	28.649	119.67	21.085	141.50	3.733	163.33	3.483	185.17	3.123	207.00	2.729	228.83	2.407	250.67	1.746	272.50	0.980	294.33	0.525	316.17	0.197	338.00	0.060	359.83	0.016	381.67	0.004	403.50	0.001	425.33	0.000	447.17	0.000
10.67	2.683	32.50	75.867	54.33	57.422	76.17	46.280	98.00	28.573	119.83	21.008	141.67	3.729	163.50	3.481	185.33	3.119	207.17	2.726	229.00	2.404	250.83	1.738	272.67	0.976	294.50	0.522	316.33	0.196	338.17	0.059	360.00	0.016	381.83	0.004	403.67	0.001	425.50	0.000	447.33	0.000
10.83	2.780	32.67	76.827	54.50	57.706	76.33	46.067	98.17	28.520	120.00	20.900	141.83	3.724	163.67	3.479	185.50	3.116	207.33	2.723	229.17	2.401	251.00	1.732	272.83	0.972	294.67	0.519	316.50	0.194	338.33	0.058	360.17	0.016	382.00	0.004	403.83	0.001	425.67	0.000	447.50	0.000
11.00	2.889	32.83	77.469	54.67	57.853	76.50	45.763	98.33	28.459	120.17	20.770	142.00	3.717	163.83	3.477	185.67	3.113	207.50	2.720	229.33	2.398	251.17	1.724	273.00	0.968	294.83	0.516	316.67	0.192	338.50	0.058	360.33	0.016	382.17	0.004	404.00	0.001	425.83	0.000	447.67	0.000
11.17	3.013	33.00	78.075	54.83	57.978	76.67	45.590	98.50	28.373	120.33	20.551	142.17	3.712	164.00	3.476	185.83	3.110	207.67	2.718	229.50	2.396	251.33	1.717	273.17	0.965	295.00	0.512	316.83	0.191	338.67	0.057	360.50	0.016	382.33	0.004	404.17	0.001	426.00	0.000	447.83	0.000
11.33	3.154	33.17	78.712	55.00	58.227	76.83	45.376	98.67	28.302	120.50	20.287	142.33	3.709	164.17	3.474	186.00	3.106	207.83	2.715	229.67	2.393	251.50	1.711	273.33	0.961	295.17	0.509	317.00	0.189	338.83	0.057	360.67	0.015	382.50	0.004	404.33	0.001	426.17	0.000	448.00	0.000
11.50	3.312	33.33	78.982	55.17	58.368	77.00	45.073	98.83	28.228	120.67	19.995	142.50	3.706	164.33	3.472	186.17	3.104	208.00	2.713	229.83	2.391	251.67	1.703	273.50	0.957	295.33	0.506	317.17	0.187	339.00	0.056	360.83	0.015	382.67	0.004	404.50	0.001	426.33	0.000	448.17	0.000
11.67	3.488	33.50	79.248	55.33	58.492	77.17	44.898	99.00	28.176	120.83	19.628	142.67	3.702	164.50	3.470	186.33	3.101	208.17	2.710	230.00	2.389	251.83	1.695	273.67	0.954	295.50	0.503	317.33	0.186	339.17	0.056	361.00	0.015	382.83	0.004	404.67	0.001	426.50	0.000	448.33	0.000
11.83	3.736	33.67	79.529	55.50	58.726	77.33	44.684	99.17	28.116	121.00	19.227	142.83	3.699	164.67	3.468	186.50	3.097	208.33	2.708	230.17	2.386	252.00	1.689	273.83	0.950	295.67	0.499	317.50	0.184	339.33	0.055	361.17	0.015	383.00	0.004	404.83	0.001	426.67	0.000	448.50	0.000
12.00	4.107	33.83	79.638	55.67	58.856	77.50	44.383	99.33	28.032	121.17	18.805	143.00	3.697	164.83	3.466	186.67	3.094	208.50	2.705	230.33	2.384	252.17	1.682	274.00	0.946	295.83	0.496	317.67	0.183	339.50	0.055	361.33	0.015	383.17	0.004	405.00	0.001	426.83	0.000	448.67	0.000
12.17	4.582	34.00	79.695	55.83	58.971	77.67	44.206	99.50	27.962	121.33	18.374	143.17	3.694	165.00	3.463	186.83	3.089	208.67	2.703	230.50	2.382	252.33	1.674	274.17	0.943	296.00	0.493	317.83	0.181	339.67	0.054	361.50	0.015	383.33	0.004	405.17	0.001	427.00	0.000	448.83	0.000
12.33	5.070	34.17	79.629	56.00	59.185	77.83	43.999	99.67	27.889	121.50	17.931	143.33	3.691	165.17	3.458	187.00	3.085	208.83	2.700	230.67	2.379	252.50	1.668	274.33	0.939	296.17	0.490	318.00	0.180	339.83	0.054	361.67	0.015	383.50	0.004	405.33	0.001	427.17	0.000	449.00	0.000
12.50	5.519	34.33	79.469	56.17	59.369	78.00	43.689	99.83	27.838	121.67	17.484	143.50	3.688	165.33	3.455	187.17	3.082	209.00	2.698	230.83	2.377	252.67	1.660	274.50	0.936	296.33	0.487	318.17	0.178	340.00	0.053	361.83	0.014	383.67	0.004	405.50	0.001	427.33	0.000	449.17	0.000
12.67	5.954	34.50	79.421	56.33	59.415	78.17	43.487	100.00	27.780	121.83	17.030	143.67	3.684	165.50	3.452	187.33	3.078	209.17	2.694	231.00	2.374	252.83	1.653	274.67	0.932	296.50	0.484	318.33	0.176	340.17	0.052	362.00	0.014	383.83	0.004	405.67	0.001	427.50	0.000	449.33	0.000
12.83	6.372	34.67	79.230	56.50	59.503	78.33	43.270	100.17	27.698	122.00	16.553	143.83	3.679	165.67	3.450	187.50	3.075	209.33	2.692	231.17	2.372	253.00	1.647	274.83	0.928	296.67	0.480	318.50	0.175	340.33	0.052	362.17	0.014	384.00	0.004	405.83	0.001	427.67	0.000	449.50	0.000
13.00	6.782	34.83	78.820	56.67	59.715	78.50	43.014	100.33	27.629	122.17	16.072	144.00	3.675	165.83	3.448	187.67	3.072	209.50	2.689	231.33	2.369	253.17	1.639	275.00	0.925	296.83	0.477	318.67	0.173	340.50	0.051	362.33	0.014	384.17	0.004	406.00	0.001	427.83	0.000	449.67	0.000
13.17	7.215	35.00	78.618	56.83	59.865	78.67	42.766	100.50	27.559	122.33	15.610	144.17	3.673	166.00	3.446	187.83	3.069	209.67	2.687	231.50	2.367	253.33	1.632	275.17	0.921	297.00	0.474	318.83	0.172	340.67	0.051	362.50	0.014	384.33	0.004	406.17	0.001	428.00	0.000	449.83	0.000
13.33	7.713	35.17	78.298	57.00	59.890	78.83	42.529	100.67	27.509	122.50	15.163	144.33	3.671	166.17	3.443	188.00	3.066	209.83	2.685	231.67	2.364	253.50	1.626	275.33	0.918	297.17	0.471	319.00	0.170	340.83	0.050	362.67	0.014	384.50	0.004	406.33	0.001	428.17	0.000	450.00	0.000
13.50	8.270	35.33	77.862	57.17	59.958	79.00	42.294	100.83	27.451	122.67	14.729	144.50	3.669	166.33	3.441	188.17	3.062	210.00	2.682	231.83	2.362	253.67	1.618	275.50	0.914	297.33	0.468	319.17	0.169	341.00	0.050	362.83	0.014	384.67	0.004	406.50	0.001	428.33	0.000	450.17	0.000
13.67	8.845	35.50	77.420	57.33	60.131	79.17	42.059	101.00	27.371	122.83	14.313	144.67	3.667	166.50	3.439	188.33	3.057	210.17	2.680	232.00	2.360	253.83	1.611	275.67	0.911	297.50	0.465	319.33	0.167	341.17	0.050	363.00	0.013	384.83	0.004	406.67	0.001	428.50	0.000	450.33	0.000
13.83	9.433	35.67	76.966	57.50	60.268	79.33	41.826	101.17	27.304	123.00	13.910	144.83	3.666	166.67	3.437	188.50	3.053	210.33	2.678	232.17	2.357	254.00	1.605	275.83	0.907	297.67	0.462	319.50	0.166	341.33	0.049	363.17	0.013	385.00	0.003	406.83	0.001	428.67	0.000	450.50	0.000
14.00	10.029	35.83	76.480	57.67	60.364	79.50	41.595	101.33	27.235	123.17	13.517	145.00	3.664	166.83	3.435	188.67	3.050	210.50	2.675	232.33	2.355	254.17	1.598	276.00	0.904	297.83	0.459	319.67	0.165	341.50	0.049	363.33	0.013	385.17	0.003	407.00	0.001	428.83	0.000	450.67	0.000
14.17	10.625	36.00	75.990	57.83	60.341	79.67	41.365	101.50	27.186	123.33	13.132	145.17	3.662	167.00	3.433	188.83	3.047	210.67	2.672	232.50	2.352	254.33	1.590	276.17	0.900	298.00	0.456	319.83	0.163	341.67	0.048	363.50	0.013	385.33	0.003	407.17	0.001	429.00	0.000	450.83	0.000
14.33	11.214	36.17	75.447	58.00	60.366	79.83	41.133	101.67	27.130	123.50	12.755	145.33	3.661	167.17	3.431	189.00	3.043	210.83	2.670	232.67	2.349	254.50	1.584	276.33	0.896	298.17	0.453	320.00	0.162	341.83	0.048	363.67	0.013	385.50	0.003	407.33	0.001	429.17	0.000	451.00	0.000
14.50	11.794	36.33	74.890	58.17	60.505	80.00	40.892	101.83	27.051	123.67	12.405	145.50	3.659	167.33	3.428	189.17	3.040	211.00	2.666	232.83	2.346	254.67	1.577	276.50	0.893	298.33	0.450	320.17	0.160	342.00	0.047	363.83	0.013	385.67	0.003	407.50	0.001	429.33	0.000	451.17	0.000
14.67	12.356	36.50	74.323	58.33	60.608	80.17	40.670	102.00	26.986	123.83	12.080	145.67	3.658	167.50	3.423	189.33	3.037	211.17	2.663	233.00	2.344	254.83	1.570	276.67	0.889	298.50	0.447	320.33	0.159	342.17	0.047	364.00	0.013	385.83	0.003	407.67	0.001	429.50	0.000	451.33	0.000
14.83	12.901	36.67	73.734	58.50	60.688	80.33	40.448	102.17	26.918	124.00	11.762	145.83	3.656	167.67	3.420	189.50	3.033	211.33	2.661	233.17	2.341	255.00	1.564	276.83	0.886	298.67	0.444	320.50	0.158	342.33	0.046	364.17	0.012	386.00	0.003	407.83	0.001	429.67	0.000	451.50	0.000
15.00	13.456	36.83	73.133	58.67	60.755	80.50	40.236	102.33	26.870	124.17	11.450	146.00	3.655	167.83	3.418	189.67	3.029	211.50	2.659	233.33	2.339	255.17	1.556	277.00	0.882	298.83	0.441	320.67	0.156	342.50	0.046	364.33	0.012	386.17	0.003	408.00	0.001	429.83	0.000	451.67	0.000
15.17	14.007	37.00	72.534	58.83	60.786	80.67	40.021	102.50	26.814	124.33	11.149	146.17	3.654	168.00	3.415	189.83	3.024	211.67	2.657	233.50	2.336	255.33	1.549	277.17	0.879	299.00	0.438	320.83	0.155	342.67	0.045	364.50	0.012	386.33	0.003	408.17	0.001	430.00	0.000	451.83	0.000
15.33	14.520	37.17	71.924	59.00	60.788	80.83	39.802	102.67	26.737	124.50	10.851	146.33	3.652	168.17	3.413	190.00	3.020	211.83	2.654	233.67	2.334	255.50	1.543	277.33	0.875	299.17	0.435	321.00	0.153	342.83	0.045	364.67	0.012	386.50	0.003	408.33	0.001	430.17	0.000	452.00	0.000
15.50	14.992	37.33	71.319	59.17	60.729	81.00	39.583	102.83	26.673	124.67	10.550	146.50	3.651	168.33	3.410	190.17	3.017	212.00	2.652	233.83	2.331	255.67	1.536	277.50	0.872	299.33	0.432	321.17	0.152	343.00	0.044	364.83	0.012	386.67	0.003	408.50	0.001	430.33	0.000	452.17	0.000
15.67	15.422	37.50	70.715	59.33	60.719	81.17	39.365	103.00	26.606	124.83	10.254	146.67	3.650	168.50	3.408	190.33	3.014	212.17	2.650	234.00	2.328	255.83	1.529	277.67	0.868	299.50	0.429	321.33	0.151	343.17	0.044	365.00	0.012	386.83	0.003	408.67	0.001	430.50	0.000	452.33	0.000
15.83	15.814	37.67	70.108	59.50	60.800	81.33	39.145	103.17	26.559	125.00	9.968	146.83	3.648	168.67	3.406	190.50	3.010	212.33	2.647	234.17	2.325	256.00	1.523	277.83	0.865	299.67	0.426	321.50	0.149	343.33	0.044	365.17	0.012	387.00	0.003	408.83	0.001	430.67	0.000	452.50	0.000
16.00	16.168	37.83	69.517	59.67	60.853	81.50	38.925	103.33	26.504	125.17	9.693	147.00	3.645	168.83	3.404	190.67	3.007	212.50	2.645	234.33	2.322	256.17	1.516	278.00	0.861	299.83	0.423	321.67	0.148	343.50	0.043	365.33	0.012	387.17	0.003	409.00	0.001	430.83	0.000	452.67	0.000
16.17	16.485	38.00	68.924	59.83	60.885	81.67	38.704	103.50	26.429	125.33	9.431	147.17	3.641	169.00	3.401	190.83	3.004	212.67	2.642	234.50	2.319	256.33	1.509	278.17	0.858	300.00	0.420	321.83	0.147	343.67	0.043	365.50	0.011	387.33	0.003	409.17	0.001	431.00	0.000	452.83	0.000
16.33	16.766	38.17	68.336	60.00	60.901	81.83	38.483	103.67	26.365	125.50	9.181	147.33	3.638	169.17	3.399	191.00	3.000	212.83	2.638	234.67	2.316	256.50	1.503	278.33	0.854	300.17	0.417	322.00	0.145	343.83	0.042	365.67	0.011	387.50	0.003	409.33	0.001	431.17	0.000	453.00	0.000
16.50	17.014	38.33	67.763	60.17	60.909	82.00	38.260	103.83	26.300	125.67	8.942	147.50	3.636	169.33	3.397	191.17	2.996	213.00	2.636	234.83	2.314	256.67	1.495	278.50	0.851	300.33	0.414	322.17	0.144	344.00	0.042	365.83	0.011	387.67	0.003	409.50	0.001	431.33	0.000	453.17	0.000
16.67	17.232	38.50	67.197	60.33	60.907	82.17	38.038	104.00	26.253	125.83	8.716	147.67	3.634	169.50	3.394	191.33	2.992	213.17	2.633	235.00	2.311	256.83	1.488	278.67	0.847	300.50	0.411	322.33	0.143	344.17	0.042	366.00	0.011	387.83	0.003	409.67	0.001	431.50	0.000	453.33	0.000
16.83	17.422	38.67	66.635	60.50	60.896	82.33	37.817	104.17	26.199	126.00	8.500	147.83	3.633	169.67	3.389	191.50	2.988	213.33	2.631	235.17	2.308	257.00	1.482	278.83	0.844	300.67	0.408	322.50	0.142	344.33	0.041	366.17	0.011	388.00	0.003	409.83	0.001	431.67	0.000	453.50	0.000
17.00	17.595	38.83	66.097	60.67	60.881	82.50	37.595	104.33	26.125	126.17	8.293	148.00	3.632	169.83	3.386	191.67	2.985	213.50	2.629	235.33	2.305	257.17	1.475	279.00	0.840	300.83	0.405	322.67	0.140	344.50	0.041	366.33	0.011	388.17	0.003	410.00	0.001	431.83	0.000	453.67	0.000
17.17	17.730	39.00	65.553	60.83	60.858	82.67	37.376	104.50	26.062	126.33	8.092	148.17	3.631	170.00	3.384	191.83	2.982	213.67	2.627	235.50	2.301	257.33	1.468	279.17	0.837	301.00	0.403	322.83	0.139	344.67	0.040	366.50	0.011	388.33	0.003	410.17	0.001	432.00	0.000	453.83	0.000
17.33	17.840	39.17	65.005	61.00	60.829	82.83	37.161	104.67	25.997	126.50	7.899	148.33	3.630	170.17	3.381	192.00	2.978	213.83	2.624	235.67	2.298	257.50	1.463	279.33	0.833	301.17	0.400	323.00	0.138	344.83	0.040	366.67	0.011	388.50	0.003	410.33	0.001	432.17	0.000	454.00	0.000
17.50	17.935	39.33	64.481	61.17	60.796	83.00	36.950	104.83	25.951	126.67	7.714	148.50	3.629	170.33	3.379	192.17	2.975	214.00	2.622	235.83	2.295	257.67	1.455	279.50	0.830	301.33	0.397	323.17	0.137	345.00	0.040	366.83	0.011	388.67	0.003	410.50	0.001	432.33	0.000	454.17	0.000
17.67	18.010	39.50	63.977	61.33	60.757	83.17	36.742	105.00	25.898	126.83	7.537	148.67	3.628	170.50	3.376	192.33	2.972	214.17	2.620	236.00	2.292	257.83	1.449	279.67	0.826	301.50	0.394	323.33	0.135	345.17	0.039	367.00	0.010	388.83	0.003	410.67	0.001	432.50	0.000	454.33	0.000
17.83	18.074	39.67	62.996	61.50	60.712	83.33	36.547	105.17	25.825	127.00	7.368	148.83	3.627	170.67	3.374	192.50	2.969	214.33	2.617	236.17	2.289	258.00	1.443	279.83	0.823	301.67	0.391	323.50	0.134	345.33	0.039	367.17	0.010	389.00	0.003	410.83	0.001	432.67	0.000	454.50	0.000
18.00	18.114	39.83	61.802	61.67	60.664	83.50	36.346	105.33	25.763	127.17	7.203	149.00	3.626	170.83	3.372	192.67	2.965	214.50	2.614	236.33	2.286	258.17	1.436	280.00	0.819	301.83	0.388	323.67	0.133	345.50	0.038	367.33	0.010	389.17	0.003	411.00	0.001	432.83	0.000	454.67	0.000
18.17	18.128	40.00	60.518	61.83	60.610	83.67	36.159	105.50	25.699	127.33	7.042	149.17	3.625	171.00	3.369	192.83	2.961	214.67	2.611	236.50	2.283	258.33	1.429	280.17	0.816	302.00	0.386	323.83	0.132	345.67	0.038	367.50	0.010	389.33	0.003	411.17	0.001	433.00	0.000	454.83	0.000
18.33	18.131	40.17	59.687	62.00	60.550	83.83	35.938	105.67	25.654	127.50	6.889	149.33	3.624	171.17	3.367	193.00	2.957	214.83	2.608	236.67	2.279	258.50	1.423	280.33	0.812	302.17	0.383	324.00	0.131	345.83	0.038	367.67	0.010	389.50	0.003	411.33	0.001	433.17	0.000	455.00	0.000
18.50	18.134	40.33	59.043	62.17	60.488	84.00	35.819	105.83	25.602	127.67	6.757	149.50	3.623	171.33	3.364	193.17	2.955	215.00	2.606	236.83	2.275	258.67	1.416	280.50	0.809	302.33	0.380	324.17	0.129	346.00	0.037	367.83	0.010	389.67	0.003	411.50	0.001	433.33	0.000	455.17	0.000
18.67	18.121	40.50	58.520	62.33	60.420	84.17	35.686	106.00	25.530	127.83	6.639	149.67	3.622	171.50	3.362	193.33	2.952	215.17	2.603	237.00	2.271	258.83	1.409	280.67	0.805	302.50	0.377	324.33	0.128	346.17	0.037	368.00	0.010	389.83	0.003	411.67	0.001	433.50	0.000	455.33	0.000
18.83	18.096	40.67	58.019	62.50	60.348	84.33	35.477	106.17	25.468	128.00	6.522	149.83	3.621	171.67	3.359	193.50	2.949	215.33	2.601	237.17	2.268	259.00	1.404	280.83	0.802	302.67	0.375	324.50	0.127	346.33	0.037	368.17	0.010	390.00	0.003	411.83	0.001	433.67	0.000	455.50	0.000
19.00	18.063	40.83	57.508	62.67	60.273	84.50	35.356	106.33	25.405	128.17	6.408	150.00	3.620	171.83	3.354	193.67	2.947	215.50	2.599	237.33	2.264	259.17	1.397	281.00	0.798	302.83	0.372	324.67	0.126	346.50	0.036	368.33	0.010	390.17	0.003	412.00	0.001	433.83	0.000	455.67	0.000
19.17	18.024	41.00	57.019	62.83	60.194	84.67	35.229	106.50	25.360	128.33	6.297	150.17	3.619	172.00	3.351	193.83	2.944	215.67	2.597	237.50	2.260	259.33	1.390	281.17	0.795	303.00	0.369	324.83	0.125	346.67	0.036	368.50	0.010	390.33	0.003	412.17	0.001	434.00	0.000	455.83	0.000
19.33	17.974	41.17	56.548	63.00	60.113	84.83	35.044	106.67	25.309	128.50	6.190	150.33	3.617	172.17	3.348	194.00	2.941	215.83	2.595	237.67	2.256	259.50	1.384	281.33	0.791	303.17	0.367	325.00	0.124	346.83	0.035	368.67	0.009	390.50	0.002	412.33	0.001	434.17	0.000	456.00	0.000
19.50	17.931	41.33	56.100	63.17	60.028	85.00	34.938	106.83	25.238	128.67	6.086	150.50	3.616	172.33	3.346	194.17	2.939	216.00	2.593	237.83	2.252	259.67	1.377	281.50	0.788	303.33	0.364	325.17	0.123	347.00	0.035	368.83	0.009	390.67	0.002	412.50	0.001	434.33	0.000	456.17	0.000
19.67	17.880	41.50	55.651	63.33	59.939	85.17	34.824	107.00	25.177	128.83	5.986	150.67	3.615	172.50	3.343	194.33	2.935	216.17	2.590	238.00	2.248	259.83	1.371	281.67	0.784	303.50	0.361	325.33	0.121	347.17	0.035	369.00	0.009	390.83	0.002	412.67	0.001	434.50	0.000	456.33	0.000
19.83	17.806	41.67	55.215	63.50	59.846	85.33	34.656	107.17	25.115	129.00	5.891	150.83	3.614	172.67	3.341	194.50	2.931	216.33	2.587	238.17	2.244	260.00	1.365	281.83	0.781	303.67	0.359	325.50	0.120	347.33	0.034	369.17	0.009	391.00	0.002	412.83	0.001	434.67	0.000	456.50	0.000
20.00	17.742	41.83	54.791	63.67	59.831	85.50	34.559	107.33	25.071	129.17	5.798	151.00	3.613	172.83	3.338	194.67	2.927	216.50	2.584	238.33	2.240	260.17	1.358	282.00	0.777	303.83	0.356	325.67	0.119	347.50	0.034	369.33	0.009	391.17	0.002	413.00	0.001	434.83	0.000	456.67	0.000
20.17	17.676	42.00	54.373	63.83	59.799	85.67	34.446	107.50	25.020	129.33	5.710	151.17	3.612	173.00	3.336	194.83	2.924	216.67	2.581	238.50	2.236	260.33	1.352	282.17	0.774	304.00	0.353	325.83	0.118	347.67	0.034	369.50	0.009	391.33	0.002	413.17	0.001	435.00	0.000	456.83	0.000
20.33	17.593	42.17	53.959	64.00	59.687	85.83	34.288	107.67	24.950	129.50	5.625	151.33	3.611	173.17	3.333	195.00	2.922	216.83	2.579	238.67	2.231	260.50	1.346	282.33	0.770	304.17	0.351	326.00	0.117	347.83	0.033	369.67	0.009	391.50	0.002	413.33	0.001	435.17	0.000	457.00	0.000
20.50	17.523	42.33	53.557	64.17	59.566	86.00	34.164	107.83	24.890	129.67	5.544	151.50	3.610	173.33	3.331	195.17	2.919	217.00	2.576	238.83	2.227	260.67	1.339	282.50	0.767	304.33	0.348	326.17	0.116	348.00	0.033	369.83	0.009	391.67	0.002	413.50	0.001	435.33	0.000	457.17	0.000
20.67	17.449	42.50	53.156	64.33	59.428	86.17	34.111	108.00	24.829	129.83	5.466	151.67	3.607	173.50	3.328	195.33	2.917	217.17	2.574	239.00	2.222	260.83	1.333	282.67	0.763	304.50	0.346	326.33	0.115	348.17	0.033	370.00	0.009	391.83	0.002	413.67	0.001	435.50	0.000	457.33	0.000
20.83	17.360	42.67	52.761	64.50	59.293	86.33	34.028	108.17	24.785	130.00	5.392	151.83	3.603	173.67	3.325	195.50	2.914	217.33	2.572	239.17	2.218	261.00	1.327	282.83	0.760	304.67	0.343	326.50	0.114	348.33	0.032	370.17	0.009	392.00	0.002	413.83	0.001	435.67	0.000	457.50	0.000
21.00	17.286	42.83	52.374	64.67	59.161	86.50	33.878	108.33	24.734	130.17	5.320	152.00	3.601	173.83	3.321	195.67	2.912	217.50	2.570	239.33	2.213	261.17	1.320	283.00	0.756	304.83	0.340	326.67	0.113	348.50	0.032	370.33	0.009	392.17	0.002	414.00	0.001	435.83	0.000	457.67	0.000
21.17	17.209	43.00	51.991	64.83	59.115	86.67	33.760	108.50	24.665	130.33	5.252	152.17	3.599	174.00	3.317	195.83	2.910	217.67	2.568	239.50	2.208	261.33	1.314	283.17	0.753	305.00	0.338	326.83	0.112	348.67	0.032	370.50	0.008	392.33	0.002	414.17	0.001	436.00	0.000	457.83	0.000
21.33	17.115	43.17	51.613	65.00	59.055	86.83	33.704	108.67	24.606	130.50	5.186	152.33	3.598	174.17	3.315	196.00	2.907	217.83	2.566	239.67	2.203	261.50	1.308	283.33	0.749	305.17	0.335	327.00	0.111	348.83	0.031	370.67	0.008	392.50	0.002	414.33	0.001	436.17	0.000	458.00	0.000
21.50	17.038	43.33	51.249	65.17	58.911	87.00	33.624	108.83	24.546	130.67	5.123	152.50	3.596	174.33	3.312	196.17	2.904	218.00	2.563	239.83	2.198	261.67	1.302	283.50	0.746	305.33	0.333	327.17	0.110	349.00	0.031	370.83	0.008	392.67	0.002	414.50	0.001	436.33	0.000	458.17	0.000
21.67	16.959	43.50	50.884	65.33	58.760	87.17	33.488	109.00	24.502	130.83	5.063	152.67	3.595	174.50	3.309	196.33	2.899	218.17	2.560	240.00	2.193	261.83	1.295	283.67	0.742	305.50	0.330	327.33	0.109	349.17	0.031	371.00	0.008	392.83	0.002	414.67	0.001	436.50	0.000	458.33	0.000

S_N4 (JR SUMMER)



Hydrograph Statistics:

Legend	Filename & Comment	Time Step (min)	Drainage Area (ha)	Peak Flow (cms)	Time to Peak (hrs)	Runoff Volume (mm)	Runoff Volume (cu.m)	Duration of flow (hrs)	Average flow (cms)
	H-S_N4.100 : flow at S_N4	10.00	48262.00	88.385	33.833	37.95	1.832E+07	464.000	10.965

Hydrograph Table:

Hydrograph Filename : Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\JRSUMM~1\H-S_N4.100
Comment in file : flow at S_N4

TIME hrs	FLOW cms
0.00	0.000
0.17	0.128
0.33	0.261
0.50	0.402
0.67	0.424
0.83	0.451
1.00	0.482
1.17	0.519
1.33	0.560
1.50	0.605
1.67	0.654
1.83	0.709
2.00	0.767
2.17	0.820
2.33	0.866
2.50	0.912
2.67	0.956
2.83	1.000
3.00	1.043
3.17	1.085
3.33	1.126
3.50	1.165
3.67	1.204
3.83	1.242
4.00	1.278
4.17	1.314
4.33	1.348
4.50	1.381
4.67	1.414
4.83	1.446
5.00	1.476
5.17	1.504
5.33	1.529
5.50	1.554
5.67	1.578
5.83	1.601
6.00	1.624
6.17	1.646
6.33	1.668
6.50	1.690
6.67	1.711
6.83	1.732
7.00	1.753
7.17	1.774
7.33	1.796
7.50	1.817
7.67	1.839
7.83	1.861
8.00	1.884
8.17	1.908
8.33	1.932
8.50	1.958
8.67	1.985
8.83	2.014
9.00	2.044
9.17	2.077
9.33	2.112
9.50	2.150
9.67	2.190
9.83	2.229
10.00	2.266
10.17	2.301
10.33	2.337
10.50	2.376
10.67	2.420
10.83	2.467
11.00	2.520
11.17	2.579
11.33	2.645
11.50	2.720
11.67	2.799
11.83	2.887
12.00	2.996
12.17	3.126
12.33	3.277
12.50	3.446
12.67	3.630
12.83	3.830
13.00	4.039
13.17	4.257
13.33	4.495
13.50	4.764
13.67	5.058
13.83	5.376
14.00	5.716
14.17	6.078
14.33	6.451
14.50	6.829
14.67	7.228
14.83	7.653
15.00	8.093
15.17	8.549
15.33	9.014
15.50	9.482
15.67	9.948
15.83	10.410
16.00	10.864
16.17	11.312
16.33	11.758
16.50	12.194
16.67	12.613
16.83	13.014
17.00	13.394
17.17	13.749
17.33	14.079
17.50	14.392
17.67	14.686
17.83	14.961
18.00	15.218
18.17	15.456
18.33	15.673
18.50	15.875
18.67	16.060
18.83	16.228
19.00	16.379
19.17	16.517
19.33	16.640
19.50	16.750
19.67	16.852
19.83	16.938
20.00	17.012
20.17	17.079
20.33	17.135
20.50	17.182
20.67	17.222
20.83	17.247
21.00	17.264
21.17	17.280
21.33	17.287
21.50	17.288
21.67	17.290

TIME hrs	FLOW cms
21.83	17.284
22.00	17.274
22.17	17.267
22.33	17.253
22.50	17.238
22.67	17.227
22.83	17.210
23.00	17.191
23.17	17.178
23.33	17.161
23.50	17.144
23.67	17.136
23.83	17.125
24.00	17.115
24.17	17.114
24.33	17.112
24.50	17.111
24.67	17.123
24.83	17.136
25.00	17.150
25.17	17.181
25.33	17.218
25.50	17.260
25.67	17.321
25.83	17.387
26.00	17.458
26.17	17.563
26.33	17.677
26.50	17.799
26.67	17.982
26.83	18.180
27.00	18.392
27.17	18.778
27.33	19.220
27.50	19.704
27.67	22.027
27.83	24.683
28.00	27.622
28.17	31.994
28.33	36.463
28.50	41.015
28.67	45.189
28.83	49.390
29.00	53.621
29.17	56.707
29.33	59.786
29.50	62.930
29.67	65.099
29.83	67.403
30.00	69.827
30.17	71.466
30.33	73.077
30.50	74.742
30.67	75.978
30.83	77.230
31.00	78.510
31.17	79.598
31.33	80.606
31.50	81.547
31.67	82.448
31.83	83.301
32.00	84.119
32.17	84.907
32.33	85.591
32.50	86.194
32.67	86.774
32.83	87.216
33.00	87.534
33.17	87.889
33.33	88.113
33.50	88.197
33.67	88.338
33.83	88.385
34.00	88.372
34.17	88.322
34.33	88.153
34.50	87.965
34.67	87.822
34.83	87.590
35.00	87.295
35.17	87.001
35.33	86.603
35.50	86.200
35.67	85.830
35.83	85.408
36.00	84.938
36.17	84.465
36.33	84.025
36.50	83.542
36.67	82.953
36.83	82.410
37.00	81.836
37.17	81.178
37.33	80.605
37.50	80.009
37.67	79.385
37.83	78.748
38.00	78.113
38.17	77.491
38.33	76.865
38.50	76.234
38.67	75.631
38.83	75.028
39.00	74.424
39.17	73.838
39.33	73.255
39.50	72.672
39.67	71.757
39.83	70.677
40.00	69.473
40.17	68.538
40.33	67.747
40.50	66.979
40.67	66.259
40.83	65.551
41.00	64.840
41.17	64.119
41.33	63.415
41.50	62.724
41.67	62.030
41.83	61.349
42.00	60.678
42.17	60.034
42.33	59.400
42.50	58.774
42.67	58.178
42.83	57.590
43.00	57.009
43.17	56.460
43.33	55.919
43.50	55.387

TIME hrs	FLOW cms
43.67	54.883
43.83	54.386
44.00	53.894
44.17	53.423
44.33	52.948
44.50	52.475
44.67	52.033
44.83	51.598
45.00	51.186
45.17	50.826
45.33	50.466
45.50	50.118
45.67	49.809
45.83	49.533
46.00	49.252
46.17	49.048
46.33	48.874
46.50	48.690
46.67	48.541
46.83	48.446
47.00	48.375
47.17	48.289
47.33	48.219
47.50	48.197
47.67	48.200
47.83	48.207
48.00	48.247
48.17	48.316
48.33	48.401
48.50	48.495
48.67	48.602
48.83	48.723
49.00	48.827
49.17	48.948
49.33	49.110
49.50	49.271
49.67	49.409
49.83	49.562
50.00	49.756
50.17	49.932
50.33	50.120
50.50	50.345
50.67	50.546
50.83	50.759
51.00	51.012
51.17	51.227
51.33	51.451
51.50	51.720
51.67	51.949
51.83	52.184
52.00	52.464
52.17	52.700
52.33	52.939
52.50	53.222
52.67	53.457
52.83	53.690
53.00	53.964
53.17	54.191
53.33	54.420
53.50	54.691
53.67	54.915
53.83	55.139
54.00	55.418
54.17	55.630
54.33	55.811
54.50	56.070
54.67	56.284
54.83	56.459
55.00	56.696
55.17	56.895
55.33	57.062
55.50	57.287
55.67	57.474
55.83	57.630
56.00	57.841
56.17	58.065
56.33	58.198
56.50	58.304
56.67	58.496
56.83	58.700
57.00	58.815
57.17	58.906
57.33	59.069
57.50	59.247
57.67	59.402
57.83	59.470
58.00	59.516
58.17	59.643
58.33	59.785
58.50	59.910
58.67	60.023
58.83	60.079
59.00	60.117
59.17	60.169
59.33	60.209
59.50	60.279
59.67	60.363
59.83	60.432
60.00	60.488
60.17	60.535
60.33	60.574
60.50	60.604
60.67	60.626
60.83	60.642
61.00	60.651
61.17	60.654
61.33	60.650
61.50	60.641
61.67	60.625
61.83	60.604
62.00	60.577
62.17	60.545
62.33	60.508
62.50	60.465
62.67	60.418
62.83	60.366
63.00	60.311
63.17	60.251
63.33	60.187
63.50	60.118
63.67	60.067
63.83	60.032
64.00	59.972
64.17	59.888
64.33	59.794
64.50	59.692
64.67	59.589
64.83	59.547
65.00	59.520
65.17	59.424
65.33	59.303

TIME hrs	FLOW cms
65.50	59.174
65.67	59.040
65.83	58.934
66.00	58.897
66.17	58.818
66.33	58.656
66.50	58.495
66.67	58.365
66.83	58.302
67.00	58.196
67.17	58.010
67.33	57.849
67.50	57.715
67.67	57.599
67.83	57.447
68.00	57.274
68.17	57.133
68.33	57.001
68.50	56.829
68.67	56.645
68.83	56.492
69.00	56.348
69.17	56.164
69.33	55.968
69.50	55.811
69.67	55.665
69.83	55.476
70.00	55.273
70.17	55.108
70.33	54.956
70.50	54.768
70.67	54.566
70.83	54.387
71.00	54.218
71.17	54.049
71.33	53.849
71.50	53.657
71.67	53.474
71.83	53.273
72.00	53.081
72.17	52.895
72.33	52.691
72.50	52.495
72.67	52.306
72.83	52.096
73.00	51.897
73.17	51.704
73.33	51.492
73.50	51.291
73.67	51.095
73.83	50.871
74.00	50.648
74.17	50.436
74.33	50.207
74.50	49.988
74.67	49.778
74.83	49.550
75.00	49.328
75.17	49.115
75.33	48.886
75.50	48.662
75.67	48.446
75.83	48.217
76.00	47.993
76.17	47.777
76.33	47.548
76.50	47.324
76.67	47.107
76.83	46.878
77.00	46.653
77.17	46.437
77.33	46.207
77.50	45.984
77.67	45.767
77.83	45.538
78.00	45.315
78.17	45.090
78.33	44.852
78.50	44.639
78.67	44.416
78.83	44.162
79.00	43.948
79.17	43.733
79.33	43.482
79.50	43.269
79.67	43.056
79.83	42.807
80.00	42.592
80.17	42.378
80.33	42.134
80.50	41.928
80.67	41.723
80.83	41.483
81.00	41.278
81.17	41.071
81.33	40.853
81.50	40.635
81.67	40.418
81.83	40.201
82.00	39.983
82.17	39.766
82.33	39.550
82.50	39.333
82.67	39.117
82.83	38.903
83.00	38.685
83.17	38.458
83.33	38.234
83.50	38.015
83.67	37.799
83.83	37.581
84.00	37.381
84.17	37.207
84.33	36.996
84.50	36.814
84.67	36.654
84.83	36.460
85.00	36.291
85.17	36.143
85.33	35.966
85.50	35.813
85.67	35.674
85.83	35.509
86.00	35.359
86.17	35.234
86.33	35.109
86.50	34.978
86.67	34.839
86.83	34.712
87.00	34.609
87.17	34.490

TIME hrs	FLOW cms
87.33	34.354
87.50	34.251
87.67	34.158
87.83	34.038
88.00	33.915
88.17	33.823
88.33	33.741
88.50	33.630
88.67	33.516
88.83	33.420
89.00	33.339
89.17	33.255
89.33	33.156
89.50	33.062
89.67	32.973
89.83	32.884
90.00	32.805
90.17	32.723
90.33	32.635
90.50	32.540
90.67	32.458
90.83	32.394
91.00	32.316
91.17	32.221
91.33	32.131
91.50	32.060
91.67	31.997
91.83	31.910
92.00	31.817
92.17	31.738
92.33	31.670
92.50	31.599
92.67	31.515
92.83	31.423
93.00	31.347
93.17	31.279
93.33	31.206
93.50	31.123
93.67	31.036
93.83	30.964
94.00	30.897
94.17	30.822
94.33	30.742
94.50	30.660
94.67	30.592
94.83	30.528
95.00	30.456
95.17	30.378
95.33	30.299
95.50	30.232
95.67	30.170
95.83	30.099
96.00	30.023
96.17	29.945
96.33	29.880
96.50	29.817
96.67	29.747
96.83	29.672
97.00	29.594
97.17	29.529
97.33	29.468
97.50	29.399
97.67	29.324
97.83	29.247
98.00	29.182
98.17	29.121
98.33	29.052
98.50	28.978
98.67	28.901
98.83	28.837
99.00	28.777
99.17	28.708
99.33	28.635
99.50	28.560
99.67	28.497
99.83	28.437
100.00	28.370
100.17	28.298
100.33	28.224
100.50	28.162
100.67	28.103
100.83	28.037
101.00	27.966
101.17	27.894
101.33	27.833
101.50	27.775
101.67	27.710
101.83	27.641
102.00	27.570
102.17	27.510
102.33	27.453
102.50	27.389
102.67	27.321
102.83	27.251
103.00	27.193
103.17	27.136
103.33	27.074
103.50	27.007
103.67	26.936
103.83	26.873
104.00	26.812
104.17	26.745
104.33	26.673
104.50	26.600
104.67	26.539
104.83	26.481
105.00	26.418
105.17	26.349
105.33	26.279
105.50	26.215
105.67	26.156
105.83	26.095
106.00	26.029
106.17	25.962
106.33	25.898
106.50	25.838
106.67	25.780
106.83	25.717
107.00	25.652
107.17	25.590
107.33	25.533
107.50	25.476
107.67	25.415
107.83	25.352
108.00	25.292
108.17	25.236
108.33	25.182
108.50	25.122
108.67	25.060
108.83	25.002
109.00	24.947

TIME hrs	FLOW cms
109.17	24.894
109.33	24.835
109.50	24.775
109.67	24.718
109.83	24.664
110.00	24.612
110.17	24.554
110.33	24.495
110.50	24.439
110.67	24.386
110.83	24.334
111.00	24.278
111.17	24.219
111.33	24.164
111.50	24.113
111.67	24.061
111.83	24.006
112.00	23.948
112.17	23.894
112.33	23.843
112.50	23.792
112.67	23.737
112.83	23.681
113.00	23.627
113.17	23.577
113.33	23.527
113.50	23.473
113.67	23.417
113.83	23.364
114.00	23.315
114.17	23.265
114.33	23.212
114.50	23.156
114.67	23.105
114.83	23.056
115.00	23.007
115.17	22.954
115.33	22.899
115.50	22.848
115.67	22.800
115.83	22.751
116.00	22.699
116.17	22.645
116.33	22.594
116.50	22.545
116.67	22.497
116.83	22.444
117.00	22.390
117.17	22.339
117.33	22.291
117.50	22.242
117.67	22.188
117.83	22.132
118.00	22.080
118.17	22.030
118.33	21.980
118.50	21.927
118.67	21.871
118.83	21.817
119.00	21.767
119.17	21.717
119.33	21.665
119.50	21.610
119.67	21.558
119.83	21.502
120.00	21.432
120.17	21.351
120.33	21.249
120.50	21.116
120.67	20.962
120.83	20.781
121.00	20.571
121.17	20.343
121.33	20.097
121.50	19.838
121.67	19.566
121.83	19.255
122.00	18.907
122.17	18.550
122.33	18.195
122.50	17.845
122.67	17.499
122.83	17.157
123.00	16.817
123.17	16.484
123.33	16.155
123.50	15.829
123.67	15.512
123.83	15.206
124.00	14.908
124.17	14.614
124.33	14.325
124.50	14.041
124.67	13.747
124.83	13.441
125.00	13.138
125.17	12.845
125.33	12.561
125.50	12.286
125.67	12.021
125.83	11.764
126.00	11.516
126.17	11.275
126.33	11.041
126.50	10.814
126.67	10.598
126.83	10.393
127.00	10.195
127.17	10.001
127.33	9.811
127.50	9.625
127.67	9.446
127.83	9.275
128.00	9.108
128.17	8.939
128.33	8.771
128.50	8.608
128.67	8.450
128.83	8.296
129.00	8.148
129.17	8.004
129.33	7.864
129.50	7.729
129.67	7.598
129.83	7.471
130.00	7.348
130.17	7.229
130.33	7.113
130.50	7.001
130.67	6.893
130.83	6.787

TIME hrs	FLOW cms
131.00	6.685
131.17	6.587
131.33	6.493
131.50	6.405
131.67	6.320
131.83	6.238
132.00	6.158
132.17	6.080
132.33	6.004
132.50	5.930
132.67	5.858
132.83	5.788
133.00	5.720
133.17	5.654
133.33	5.590
133.50	5.527
133.67	5.466
133.83	5.407
134.00	5.350
134.17	5.294
134.33	5.240
134.50	5.185
134.67	5.135
134.83	5.086
135.00	5.038
135.17	4.992
135.33	4.946
135.50	4.904
135.67	4.861
135.83	4.820
136.00	4.781
136.17	4.742
136.33	4.705
136.50	4.668
136.67	4.633
136.83	4.598
137.00	4.564
137.17	4.531
137.33	4.498
137.50	4.467
137.67	4.436
137.83	4.407
138.00	4.379
138.17	4.352
138.33	4.326
138.50	4.300
138.67	4.276
138.83	4.252
139.00	4.229
139.17	4.207
139.33	4.186
139.50	4.166
139.67	4.145
139.83	4.127
140.00	4.109
140.17	4.090
140.33	4.074
140.50	4.058
140.67	4.041
140.83	4.026
141.00	4.012
141.17	3.997
141.33	3.984
141.50	3.971
141.67	3.958
141.83	3.945
142.00	3.934
142.17	3.923
142.33	3.911
142.50	3.900
142.67	3.891
142.83	3.883
143.00	3.873
143.17	3.863
143.33	3.853
143.50	3.846
143.67	3.840
143.83	3.830
144.00	3.821
144.17	3.813
144.33	3.807
144.50	3.802
144.67	3.794
144.83	3.787
145.00	3.780
145.17	3.774
145.33	3.768
145.50	3.764
145.67	3.761
145.83	3.755
146.00	3.749
146.17	3.744
146.33	3.739
146.50	3.734
146.67	3.729
146.83	3.725
147.00	3.722
147.17	3.720
147.33	3.715
147.50	3.710
147.67	3.706
147.83	3.702
148.00	3.698
148.17	3.694
148.33	3.690
148.50	3.687
148.67	3.684
148.83	3.683
149.00	3.682
149.17	3.678
149.33	3.675
149.50	3.672
149.67	3.670
149.83	3.667
150.00	3.664
150.17	3.661
150.33	3.659
150.50	3.657
150.67	3.654
150.83	3.652
151.00	3.650
151.17	3.647
151.33	3.645
151.50	3.645
151.67	3.645
151.83	3.642
152.00	3.639
152.17	3.637
152.33	3.634
152.50	3.632
152.67	3.630

TIME hrs	FLOW cms
152.83	3.628
153.00	3.626
153.17	3.624
153.33	3.622
153.50	3.620
153.67	3.618
153.83	3.616
154.00	3.615
154.17	3.613
154.33	3.611
154.50	3.610
154.67	3.608
154.83	3.608
155.00	3.608
155.17	3.607
155.33	3.605
155.50	3.603
155.67	3.601
155.83	3.600
156.00	3.598
156.17	3.596
156.33	3.593
156.50	3.591
156.67	3.589
156.83	3.588
157.00	3.586
157.17	3.584
157.33	3.582
157.50	3.580
157.67	3.578
157.83	3.577
158.00	3.575
158.17	3.573
158.33	3.572
158.50	3.572
158.67	3.572
158.83	3.570
159.00	3.568
159.17	3.567
159.33	3.565
159.50	3.563
159.67	3.560
159.83	3.558
160.00	3.556
160.17	3.554
160.33	3.552
160.50	3.550
160.67	3.548
160.83	3.546
161.00	3.544
161.17	3.542
161.33	3.540
161.50	3.538
161.67	3.536
161.83	3.536
162.00	3.536
162.17	3.534
162.33	3.531
162.50	3.529
162.67	3.526
162.83	3.524
163.00	3.522
163.17	3.519
163.33	3.517
163.50	3.515
163.67	3.513
163.83	3.510
164.00	3.508
164.17	3.506
164.33	3.504
164.50	3.502
164.67	3.500
164.83	3.499
165.00	3.499
165.17	3.496
165.33	3.493
165.50	3.491
165.67	3.488
165.83	3.486
166.00	3.483
166.17	3.481
166.33	3.478
166.50	3.476
166.67	3.473
166.83	3.471
167.00	3.469
167.17	3.466
167.33	3.464
167.50	3.463
167.67	3.462
167.83	3.459
168.00	3.456
168.17	3.454
168.33	3.451
168.50	3.448
168.67	3.446
168.83	3.443
169.00	3.440
169.17	3.438
169.33	3.435
169.50	3.433
169.67	3.430
169.83	3.427
170.00	3.426
170.17	3.425
170.33	3.422
170.50	3.419
170.67	3.417
170.83	3.414
171.00	3.411
171.17	3.408
171.33	3.406
171.50	3.403
171.67	3.400
171.83	3.397
172.00	3.394
172.17	3.391
172.33	3.390
172.50	3.389
172.67	3.386
172.83	3.383
173.00	3.380
173.17	3.377
173.33	3.374
173.50	3.372
173.67	3.369
173.83	3.366
174.00	3.362
174.17	3.359
174.33	3.356
174.50	3.355

TIME hrs	FLOW cms
174.67	3.354
174.83	3.351
175.00	3.348
175.17	3.345
175.33	3.342
175.50	3.339
175.67	3.336
175.83	3.333
176.00	3.330
176.17	3.327
176.33	3.324
176.50	3.321
176.67	3.319
176.83	3.318
177.00	3.315
177.17	3.312
177.33	3.309
177.50	3.306
177.67	3.303
177.83	3.300
178.00	3.296
178.17	3.293
178.33	3.290
178.50	3.287
178.67	3.286
178.83	3.284
179.00	3.281
179.17	3.278
179.33	3.275
179.50	3.272
179.67	3.269
179.83	3.265
180.00	3.262
180.17	3.259
180.33	3.256
180.50	3.253
180.67	3.252
180.83	3.250
181.00	3.247
181.17	3.244
181.33	3.241
181.50	3.237
181.67	3.234
181.83	3.231
182.00	3.228
182.17	3.224
182.33	3.221
182.50	3.218
182.67	3.217
182.83	3.216
183.00	3.212
183.17	3.209
183.33	3.206
183.50	3.202
183.67	3.199
183.83	3.196
184.00	3.193
184.17	3.190
184.33	3.187
184.50	3.184
184.67	3.182
184.83	3.181
185.00	3.177
185.17	3.174
185.33	3.170
185.50	3.167
185.67	3.164
185.83	3.160
186.00	3.157
186.17	3.154
186.33	3.151
186.50	3.149
186.67	3.147
186.83	3.143
187.00	3.140
187.17	3.136
187.33	3.133
187.50	3.129
187.67	3.126
187.83	3.122
188.00	3.119
188.17	3.117
188.33	3.115
188.50	3.111
188.67	3.107
188.83	3.103
189.00	3.100
189.17	3.096
189.33	3.093
189.50	3.089
189.67	3.085
189.83	3.083
190.00	3.081
190.17	3.077
190.33	3.073
190.50	3.069
190.67	3.066
190.83	3.062
191.00	3.058
191.17	3.054
191.33	3.052
191.50	3.049
191.67	3.045
191.83	3.042
192.00	3.038
192.17	3.034
192.33	3.031
192.50	3.027
192.67	3.023
192.83	3.021
193.00	3.018
193.17	3.015
193.33	3.011
193.50	3.007
193.67	3.004
193.83	3.000
194.00	2.997
194.17	2.993
194.33	2.990
194.50	2.988
194.67	2.986
194.83	2.982
195.00	2.978
195.17	2.975
195.33	2.972
195.50	2.968
195.67	2.965
195.83	2.962
196.00	2.959
196.17	2.957
196.33	2.955

TIME hrs	FLOW cms
196.50	2.951
196.67	2.947
196.83	2.944
197.00	2.941
197.17	2.938
197.33	2.934
197.50	2.931
197.67	2.928
197.83	2.927
198.00	2.925
198.17	2.921
198.33	2.918
198.50	2.915
198.67	2.911
198.83	2.908
199.00	2.905
199.17	2.902
199.33	2.899
199.50	2.896
199.67	2.895
199.83	2.893
200.00	2.890
200.17	2.887
200.33	2.883
200.50	2.880
200.67	2.877
200.83	2.874
201.00	2.871
201.17	2.868
201.33	2.865
201.50	2.864
201.67	2.862
201.83	2.859
202.00	2.856
202.17	2.853
202.33	2.850
202.50	2.847
202.67	2.844
202.83	2.841
203.00	2.838
203.17	2.835
203.33	2.834
203.50	2.832
203.67	2.829
203.83	2.826
204.00	2.823
204.17	2.820
204.33	2.817
204.50	2.814
204.67	2.811
204.83	2.808
205.00	2.806
205.17	2.804
205.33	2.802
205.50	2.799
205.67	2.796
205.83	2.793
206.00	2.790
206.17	2.788
206.33	2.785
206.50	2.782
206.67	2.779
206.83	2.776
207.00	2.775
207.17	2.773
207.33	2.770
207.50	2.767
207.67	2.764
207.83	2.761
208.00	2.759
208.17	2.756
208.33	2.753
208.50	2.750
208.67	2.747
208.83	2.746
209.00	2.744
209.17	2.741
209.33	2.738
209.50	2.735
209.67	2.733
209.83	2.730
210.00	2.727
210.17	2.724
210.33	2.722
210.50	2.719
210.67	2.717
210.83	2.716
211.00	2.713
211.17	2.710
211.33	2.707
211.50	2.704
211.67	2.701
211.83	2.699
212.00	2.696
212.17	2.693
212.33	2.691
212.50	2.689
212.67	2.688
212.83	2.685
213.00	2.682
213.17	2.679
213.33	2.676
213.50	2.673
213.67	2.671
213.83	2.668
214.00	2.665
214.17	2.663
214.33	2.661
214.50	2.660
214.67	2.657
214.83	2.654
215.00	2.651
215.17	2.648
215.33	2.646
215.50	2.643
215.67	2.640
215.83	2.638
216.00	2.635
216.17	2.634
216.33	2.632
216.50	2.629
216.67	2.626
216.83	2.623
217.00	2.621
217.17	2.618
217.33	2.615
217.50	2.613
217.67	2.610
217.83	2.608
218.00	2.606
218.17	2.605

TIME hrs	FLOW cms
218.33	2.602
218.50	2.599
218.67	2.596
218.83	2.594
219.00	2.591
219.17	2.588
219.33	2.586
219.50	2.583
219.67	2.581
219.83	2.579
220.00	2.578
220.17	2.575
220.33	2.572
220.50	2.569
220.67	2.567
220.83	2.564
221.00	2.561
221.17	2.559
221.33	2.556
221.50	2.554
221.67	2.552
221.83	2.551
222.00	2.548
222.17	2.545
222.33	2.543
222.50	2.540
222.67	2.537
222.83	2.535
223.00	2.532
223.17	2.530
223.33	2.527
223.50	2.526
223.67	2.524
223.83	2.521
224.00	2.519
224.17	2.516
224.33	2.513
224.50	2.511
224.67	2.508
224.83	2.506
225.00	2.503
225.17	2.501
225.33	2.499
225.50	2.498
225.67	2.495
225.83	2.492
226.00	2.490
226.17	2.487
226.33	2.485
226.50	2.482
226.67	2.480
226.83	2.477
227.00	2.475
227.17	2.473
227.33	2.471
227.50	2.469
227.67	2.466
227.83	2.464
228.00	2.461
228.17	2.458
228.33	2.456
228.50	2.453
228.67	2.451
228.83	2.448
229.00	2.447
229.17	2.445
229.33	2.442
229.50	2.440
229.67	2.437
229.83	2.434
230.00	2.432
230.17	2.429
230.33	2.427
230.50	2.424
230.67	2.422
230.83	2.420
231.00	2.418
231.17	2.416
231.33	2.413
231.50	2.410
231.67	2.408
231.83	2.405
232.00	2.402
232.17	2.399
232.33	2.396
232.50	2.393
232.67	2.391
232.83	2.388
233.00	2.385
233.17	2.382
233.33	2.379
233.50	2.376
233.67	2.373
233.83	2.370
234.00	2.368
234.17	2.366
234.33	2.363
234.50	2.360
234.67	2.357
234.83	2.354
235.00	2.351
235.17	2.348
235.33	2.345
235.50	2.341
235.67	2.337
235.83	2.334
236.00	2.331
236.17	2.328
236.33	2.325
236.50	2.322
236.67	2.319
236.83	2.315
237.00	2.311
237.17	2.308
237.33	2.304
237.50	2.301
237.67	2.298
237.83	2.294
238.00	2.290
238.17	2.286
238.33	2.282
238.50	2.279
238.67	2.275
238.83	2.272
239.00	2.268
239.17	2.263
239.33	2.259
239.50	2.255
239.67	2.251
239.83	2.247
240.00	2.243

TIME hrs	FLOW cms
240.17	2.238
240.33	2.233
240.50	2.229
240.67	2.225
240.83	2.220
241.00	2.215
241.17	2.210
241.33	2.205
241.50	2.200
241.67	2.196
241.83	2.190
242.00	2.185
242.17	2.180
242.33	2.175
242.50	2.170
242.67	2.164
242.83	2.158
243.00	2.153
243.17	2.147
243.33	2.141
243.50	2.135
243.67	2.130
243.83	2.124
244.00	2.118
244.17	2.112
244.33	2.106
244.50	2.101
244.67	2.094
244.83	2.087
245.00	2.081
245.17	2.074
245.33	2.067
245.50	2.060
245.67	2.053
245.83	2.046
246.00	2.039
246.17	2.032
246.33	2.025
246.50	2.018
246.67	2.012
246.83	2.005
247.00	1.998
247.17	1.991
247.33	1.984
247.50	1.977
247.67	1.971
247.83	1.964
248.00	1.957
248.17	1.951
248.33	1.943
248.50	1.936
248.67	1.930
248.83	1.923
249.00	1.916
249.17	1.909
249.33	1.902
249.50	1.895
249.67	1.889
249.83	1.882
250.00	1.875
250.17	1.868
250.33	1.861
250.50	1.854
250.67	1.848
250.83	1.841
251.00	1.834
251.17	1.827
251.33	1.820
251.50	1.813
251.67	1.807
251.83	1.800
252.00	1.793
252.17	1.786
252.33	1.779
252.50	1.772
252.67	1.766
252.83	1.759
253.00	1.752
253.17	1.746
253.33	1.739
253.50	1.732
253.67	1.725
253.83	1.718
254.00	1.711
254.17	1.705
254.33	1.698
254.50	1.691
254.67	1.685
254.83	1.678
255.00	1.671
255.17	1.665
255.33	1.658
255.50	1.651
255.67	1.645
255.83	1.638
256.00	1.631
256.17	1.625
256.33	1.618
256.50	1.611
256.67	1.605
256.83	1.598
257.00	1.592
257.17	1.585
257.33	1.579
257.50	1.572
257.67	1.566
257.83	1.559
258.00	1.553
258.17	1.546
258.33	1.540
258.50	1.533
258.67	1.527
258.83	1.520
259.00	1.514
259.17	1.508
259.33	1.501
259.50	1.495
259.67	1.488
259.83	1.482
260.00	1.476
260.17	1.469
260.33	1.463
260.50	1.457
260.67	1.450
260.83	1.444
261.00	1.438
261.17	1.432
261.33	1.425
261.50	1.419
261.67	1.413
261.83	1.407

TIME hrs	FLOW cms
262.00	1.400
262.17	1.394
262.33	1.388
262.50	1.382
262.67	1.376
262.83	1.370
263.00	1.364
263.17	1.358
263.33	1.352
263.50	1.346
263.67	1.340
263.83	1.334
264.00	1.327
264.17	1.322
264.33	1.316
264.50	1.310
264.67	1.304
264.83	1.298
265.00	1.292
265.17	1.286
265.33	1.280
265.50	1.275
265.67	1.269
265.83	1.263
266.00	1.257
266.17	1.252
266.33	1.246
266.50	1.241
266.67	1.235
266.83	1.229
267.00	1.224
267.17	1.219
267.33	1.213
267.50	1.208
267.67	1.202
267.83	1.196
268.00	1.190
268.17	1.184
268.33	1.178
268.50	1.172
268.67	1.167
268.83	1.161
269.00	1.155
269.17	1.150
269.33	1.144
269.50	1.139
269.67	1.134
269.83	1.129
270.00	1.123
270.17	1.118
270.33	1.113
270.50	1.108
270.67	1.103
270.83	1.099
271.00	1.094
271.17	1.089
271.33	1.084
271.50	1.079
271.67	1.073
271.83	1.069
272.00	1.064
272.17	1.059
272.33	1.054
272.50	1.050
272.67	1.045
272.83	1.041
273.00	1.036
273.17	1.031
273.33	1.027
273.50	1.023
273.67	1.018
273.83	1.014
274.00	1.010
274.17	1.006
274.33	1.002
274.50	0.998
274.67	0.994
274.83	0.990
275.00	0.986
275.17	0.982
275.33	0.978
275.50	0.974
275.67	0.970
275.83	0.967
276.00	0.963
276.17	0.959
276.33	0.955
276.50	0.952
276.67	0.948
276.83	0.944
277.00	0.941
277.17	0.937
277.33	0.933
277.50	0.930
277.67	0.926
277.83	0.923
278.00	0.919
278.17	0.915
278.33	0.912
278.50	0.908
278.67	0.905
278.83	0.902
279.00	0.898
279.17	0.894
279.33	0.891
279.50	0.888
279.67	0.884
279.83	0.881
280.00	0.877
280.17	0.874
280.33	0.870
280.50	0.867
280.67	0.863
280.83	0.860
281.00	0.857
281.17	0.853
281.33	0.850
281.50	0.847
281.67	0.843
281.83	0.840
282.00	0.836
282.17	0.833
282.33	0.830
282.50	0.826
282.67	0.823
282.83	0.820
283.00	0.816
283.17	0.813
283.33	0.810
283.50	0.806
283.67	0.803

TIME hrs	FLOW cms
283.83	0.800
284.00	0.796
284.17	0.793
284.33	0.790
284.50	0.786
284.67	0.783
284.83	0.780
285.00	0.776
285.17	0.773
285.33	0.770
285.50	0.766
285.67	0.763
285.83	0.760
286.00	0.756
286.17	0.753
286.33	0.750
286.50	0.746
286.67	0.743
286.83	0.740
287.00	0.737
287.17	0.733
287.33	0.730
287.50	0.727
287.67	0.723
287.83	0.720
288.00	0.717
288.17	0.713
288.33	0.710
288.50	0.707
288.67	0.704
288.83	0.701
289.00	0.697
289.17	0.694
289.33	0.691
289.50	0.687
289.67	0.684
289.83	0.681
290.00	0.678
290.17	0.675
290.33	0.672
290.50	0.668
290.67	0.665
290.83	0.662
291.00	0.659
291.17	0.656
291.33	0.653
291.50	0.649
291.67	0.646
291.83	0.643
292.00	0.640
292.17	0.637
292.33	0.634
292.50	0.630
292.67	0.627
292.83	0.624
293.00	0.621
293.17	0.618
293.33	0.615
293.50	0.611
293.67	0.608
293.83	0.605
294.00	0.602
294.17	0.599
294.33	0.596
294.50	0.593
294.67	0.590
294.83	0.586
295.00	0.583
295.17	0.580
295.33	0.577
295.50	0.574
295.67	0.571
295.83	0.568
296.00	0.565
296.17	0.562
296.33	0.559
296.50	0.555
296.67	0.552
296.83	0.549
297.00	0.546
297.17	0.543
297.33	0.540
297.50	0.537
297.67	0.534
297.83	0.531
298.00	0.528
298.17	0.525
298.33	0.522
298.50	0.519
298.67	0.516
298.83	0.513
299.00	0.510
299.17	0.507
299.33	0.504
299.50	0.501
299.67	0.498
299.83	0.495
300.00	0.492
300.17	0.490
300.33	0.487
300.50	0.484
300.67	0.481
300.83	0.478
301.00	0.475
301.17	0.472
301.33	0.469
301.50	0.466
301.67	0.464
301.83	0.461
302.00	0.458
302.17	0.455
302.33	0.452
302.50	0.450
302.67	0.447
302.83	0.444
303.00	0.440
303.17	0.437
303.33	0.433
303.50	0.429
303.67	0.425
303.83	0.422
304.00	0.418
304.17	0.415
304.33	0.412
304.50	0.408
304.67	0.405
304.83	0.402
305.00	0.399
305.17	0.395
305.33	0.392
305.50	0.389

TIME hrs	FLOW cms
305.67	0.386
305.83	0.383
306.00	0.380
306.17	0.378
306.33	0.375
306.50	0.372
306.67	0.369
306.83	0.365
307.00	0.362
307.17	0.359
307.33	0.356
307.50	0.352
307.67	0.349
307.83	0.346
308.00	0.343
308.17	0.340
308.33	0.337
308.50	0.335
308.67	0.332
308.83	0.329
309.00	0.327
309.17	0.324
309.33	0.321
309.50	0.319
309.67	0.316
309.83	0.314
310.00	0.312
310.17	0.309
310.33	0.307
310.50	0.305
310.67	0.302
310.83	0.300
311.00	0.298
311.17	0.296
311.33	0.294
311.50	0.291
311.67	0.289
311.83	0.287
312.00	0.285
312.17	0.283
312.33	0.281
312.50	0.279
312.67	0.277
312.83	0.275
313.00	0.273
313.17	0.271
313.33	0.270
313.50	0.268
313.67	0.266
313.83	0.264
314.00	0.262
314.17	0.260
314.33	0.258
314.50	0.257
314.67	0.255
314.83	0.253
315.00	0.251
315.17	0.250
315.33	0.248
315.50	0.246
315.67	0.245
315.83	0.243
316.00	0.241
316.17	0.240
316.33	0.238
316.50	0.236
316.67	0.235
316.83	0.233
317.00	0.231
317.17	0.230
317.33	0.228
317.50	0.227
317.67	0.225
317.83	0.224
318.00	0.222
318.17	0.220
318.33	0.219
318.50	0.217
318.67	0.216
318.83	0.214
319.00	0.213
319.17	0.211
319.33	0.210
319.50	0.209
319.67	0.207
319.83	0.206
320.00	0.204
320.17	0.203
320.33	0.201
320.50	0.200
320.67	0.199
320.83	0.197
321.00	0.196
321.17	0.194
321.33	0.193
321.50	0.192
321.67	0.190
321.83	0.189
322.00	0.188
322.17	0.186
322.33	0.185
322.50	0.184
322.67	0.182
322.83	0.181
323.00	0.180
323.17	0.179
323.33	0.177
323.50	0.176
323.67	0.175
323.83	0.174
324.00	0.172
324.17	0.171
324.33	0.170
324.50	0.169
324.67	0.167
324.83	0.166
325.00	0.165
325.17	0.164
325.33	0.163
325.50	0.161
325.67	0.160
325.83	0.159
326.00	0.158
326.17	0.157
326.33	0.156
326.50	0.155
326.67	0.153
326.83	0.152
327.00	0.151
327.17	0.150
327.33	0.149

TIME hrs	FLOW cms
327.50	0.148
327.67	0.147
327.83	0.146
328.00	0.145
328.17	0.144
328.33	0.143
328.50	0.141
328.67	0.140
328.83	0.139
329.00	0.138
329.17	0.137
329.33	0.136
329.50	0.135
329.67	0.134
329.83	0.133
330.00	0.132
330.17	0.131
330.33	0.130
330.50	0.129
330.67	0.128
330.83	0.127
331.00	0.126
331.17	0.125
331.33	0.124
331.50	0.124
331.67	0.123
331.83	0.122
332.00	0.121
332.17	0.120
332.33	0.119
332.50	0.118
332.67	0.117
332.83	0.116
333.00	0.115
333.17	0.114
333.33	0.114
333.50	0.113
333.67	0.112
333.83	0.111
334.00	0.110
334.17	0.109
334.33	0.108
334.50	0.108
334.67	0.107
334.83	0.106
335.00	0.105
335.17	0.104
335.33	0.103
335.50	0.103
335.67	0.102
335.83	0.101
336.00	0.100
336.17	0.099
336.33	0.099
336.50	0.098
336.67	0.097
336.83	0.096
337.00	0.096
337.17	0.095
337.33	0.094
337.50	0.093
337.67	0.093
337.83	0.092
338.00	0.091
338.17	0.090
338.33	0.090
338.50	0.089
338.67	0.088
338.83	0.087
339.00	0.087
339.17	0.086
339.33	0.085
339.50	0.085
339.67	0.084
339.83	0.083
340.00	0.082
340.17	0.082
340.33	0.081
340.50	0.080
340.67	0.080
340.83	0.079
341.00	0.078
341.17	0.078
341.33	0.077
341.50	0.076
341.67	0.076
341.83	0.075
342.00	0.075
342.17	0.074
342.33	0.073
342.50	0.073
342.67	0.072
342.83	0.072
343.00	0.071
343.17	0.070
343.33	0.070
343.50	0.069
343.67	0.069
343.83	0.068
344.00	0.067
344.17	0.067
344.33	0.066
344.50	0.066
344.67	0.065
344.83	0.065
345.00	0.064
345.17	0.064
345.33	0.063
345.50	0.062
345.67	0.062
345.83	0.061
346.00	0.061
346.17	0.060
346.33	0.060
346.50	0.059
346.67	0.059
346.83	0.058
347.00	0.058
347.17	0.057
347.33	0.057
347.50	0.057
347.67	0.056
347.83	0.056
348.00	0.055
348.17	0.055
348.33	0.054
348.50	0.054
348.67	0.054
348.83	0.053
349.00	0.053
349.17	0.052

TIME hrs	FLOW cms
349.33	0.052
349.50	0.051
349.67	0.051
349.83	0.051
350.00	0.050
350.17	0.050
350.33	0.049
350.50	0.049
350.67	0.049
350.83	0.048
351.00	0.048
351.17	0.047
351.33	0.047
351.50	0.047
351.67	0.046
351.83	0.046
352.00	0.045
352.17	0.045
352.33	0.045
352.50	0.044
352.67	0.044
352.83	0.043
353.00	0.043
353.17	0.043
353.33	0.042
353.50	0.042
353.67	0.042
353.83	0.041
354.00	0.041
354.17	0.041
354.33	0.040
354.50	0.040
354.67	0.040
354.83	0.039
355.00	0.039
355.17	0.039
355.33	0.038
355.50	0.038
355.67	0.037
355.83	0.037
356.00	0.037
356.17	0.037
356.33	0.036
356.50	0.036
356.67	0.036
356.83	0.035
357.00	0.035
357.17	0.035
357.33	0.034
357.50	0.034
357.67	0.034
357.83	0.033
358.00	0.033
358.17	0.033
358.33	0.032
358.50	0.032
358.67	0.032
358.83	0.032
359.00	0.031
359.17	0.031
359.33	0.031
359.50	0.030
359.67	0.030
359.83	0.030
360.00	0.030
360.17	0.029
360.33	0.029
360.50	0.029
360.67	0.029
360.83	0.028
361.00	0.028
361.17	0.028
361.33	0.028
361.50	0.027
361.67	0.027
361.83	0.027
362.00	0.027
362.17	0.026
362.33	0.026
362.50	0.026
362.67	0.026
362.83	0.025
363.00	0.025
363.17	0.025
363.33	0.025
363.50	0.024
363.67	0.024
363.83	0.024
364.00	0.024
364.17	0.023
364.33	0.023
364.50	0.023
364.67	0.023
364.83	0.023
365.00	0.022
365.17	0.022
365.33	0.022
365.50	0.022
365.67	0.022
365.83	0.021
366.00	0.021
366.17	0.021
366.33	0.021
366.50	0.021
366.67	0.020
366.83	0.020
367.00	0.020
367.17	0.020
367.33	0.020
367.50	0.019
367.67	0.019
367.83	0.019
368.00	0.019
368.17	0.019
368.33	0.018
368.50	0.018
368.67	0.018
368.83	0.018
369.00	0.018
369.17	0.018
369.33	0.017
369.50	0.017
369.67	0.017
369.83	0.017
370.00	0.017
370.17	0.017
370.33	0.016
370.50	0.016
370.67	0.016
370.83	0.016
371.00	0.016

TIME hrs	FLOW cms
371.17	0.016
371.33	0.015
371.50	0.015
371.67	0.015
371.83	0.015
372.00	0.015
372.17	0.015
372.33	0.015
372.50	0.014
372.67	0.014
372.83	0.014
373.00	0.014
373.17	0.014
373.33	0.014
373.50	0.014
373.67	0.014
373.83	0.013
374.00	0.013
374.17	0.013
374.33	0.013
374.50	0.013
374.67	0.013
374.83	0.013
375.00	0.012
375.17	0.012
375.33	0.012
375.50	0.012
375.67	0.012
375.83	0.012
376.00	0.012
376.17	0.012
376.33	0.012
376.50	0.011
376.67	0.011
376.83	0.011
377.00	0.011
377.17	0.011
377.33	0.011
377.50	0.011
377.67	0.011
377.83	0.011
378.00	0.010
378.17	0.010
378.33	0.010
378.50	0.010
378.67	0.010
378.83	0.010
379.00	0.010
379.17	0.010
379.33	0.010
379.50	0.010
379.67	0.009
379.83	0.009
380.00	0.009
380.17	0.009
380.33	0.009
380.50	0.009
380.67	0.009
380.83	0.009
381.00	0.009
381.17	0.009
381.33	0.009
381.50	0.008
381.67	0.008
381.83	0.008
382.00	0.008
382.17	0.008
382.33	0.008
382.50	0.008
382.67	0.008
382.83	0.008
383.00	0.008
383.17	0.008
383.33	0.008
383.50	0.007
383.67	0.007
383.83	0.007
384.00	0.007
384.17	0.007
384.33	0.007
384.50	0.007
384.67	0.007
384.83	0.007
385.00	0.007
385.17	0.007
385.33	0.007
385.50	0.007
385.67	0.007
385.83	0.006
386.00	0.006
386.17	0.006
386.33	0.006
386.50	0.006
386.67	0.006
386.83	0.006
387.00	0.006
387.17	0.006
387.33	0.006
387.50	0.006
387.67	0.006
387.83	0.006
388.00	0.006
388.17	0.006
388.33	0.006
388.50	0.006
388.67	0.005
388.83	0.005
389.00	0.005
389.17	0.005
389.33	0.005
389.50	0.005
389.67	0.005
389.83	0.005
390.00	0.005
390.17	0.005
390.33	0.005
390.50	0.005
390.67	0.005
390.83	0.005
391.00	0.005
391.17	0.005
391.33	0.005
391.50	0.005
391.67	0.005
391.83	0.005
392.00	0.004
392.17	0.004
392.33	0.004
392.50	0.004
392.67	0.004
392.83	0.004

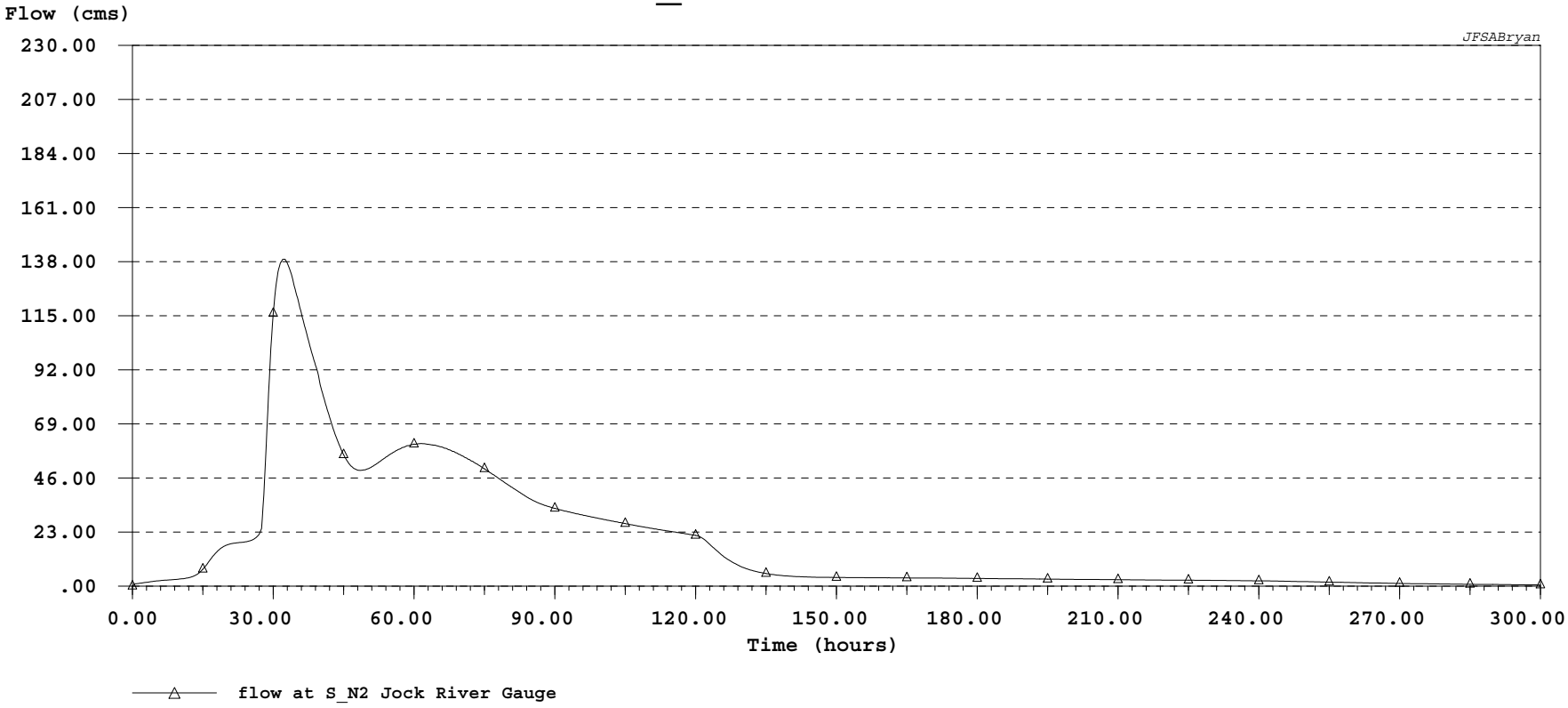
TIME hrs	FLOW cms
393.00	0.004
393.17	0.004
393.33	0.004
393.50	0.004
393.67	0.004
393.83	0.004
394.00	0.004
394.17	0.004
394.33	0.004
394.50	0.004
394.67	0.004
394.83	0.004
395.00	0.004
395.17	0.004
395.33	0.004
395.50	0.004
395.67	0.004
395.83	0.004
396.00	0.003
396.17	0.003
396.33	0.003
396.50	0.003
396.67	0.003
396.83	0.003
397.00	0.003
397.17	0.003
397.33	0.003
397.50	0.003
397.67	0.003
397.83	0.003
398.00	0.003
398.17	0.003
398.33	0.003
398.50	0.003
398.67	0.003
398.83	0.003
399.00	0.003
399.17	0.003
399.33	0.003
399.50	0.003
399.67	0.003
399.83	0.003
400.00	0.003
400.17	0.003
400.33	0.003
400.50	0.003
400.67	0.003
400.83	0.003
401.00	0.003
401.17	0.003
401.33	0.003
401.50	0.002
401.67	0.002
401.83	0.002
402.00	0.002
402.17	0.002
402.33	0.002
402.50	0.002
402.67	0.002
402.83	0.002
403.00	0.002
403.17	0.002
403.33	0.002
403.50	0.002
403.67	0.002
403.83	0.002
404.00	0.002
404.17	0.002
404.33	0.002
404.50	0.002
404.67	0.002
404.83	0.002
405.00	0.002
405.17	0.002
405.33	0.002
405.50	0.002
405.67	0.002
405.83	0.002
406.00	0.002
406.17	0.002
406.33	0.002
406.50	0.002
406.67	0.002
406.83	0.002
407.00	0.002
407.17	0.002
407.33	0.002
407.50	0.002
407.67	0.002
407.83	0.002
408.00	0.002
408.17	0.002
408.33	0.002
408.50	0.002
408.67	0.002
408.83	0.002
409.00	0.002
409.17	0.002
409.33	0.002
409.50	0.002
409.67	0.002
409.83	0.002
410.00	0.001
410.17	0.001
410.33	0.001
410.50	0.001
410.67	0.001
410.83	0.001
411.00	0.001
411.17	0.001
411.33	0.001
411.50	0.001
411.67	0.001
411.83	0.001
412.00	0.001
412.17	0.001
412.33	0.001
412.50	0.001
412.67	0.001
412.83	0.001
413.00	0.001
413.17	0.001
413.33	0.001
413.50	0.001
413.67	0.001
413.83	0.001
414.00	0.001
414.17	0.001
414.33	0.001
414.50	0.001
414.67	0.001

TIME hrs	FLOW cms
414.83	0.001
415.00	0.001
415.17	0.001
415.33	0.001
415.50	0.001
415.67	0.001
415.83	0.001
416.00	0.001
416.17	0.001
416.33	0.001
416.50	0.001
416.67	0.001
416.83	0.001
417.00	0.001
417.17	0.001
417.33	0.001
417.50	0.001
417.67	0.001
417.83	0.001
418.00	0.001
418.17	0.001
418.33	0.001
418.50	0.001
418.67	0.001
418.83	0.001
419.00	0.001
419.17	0.001
419.33	0.001
419.50	0.001
419.67	0.001
419.83	0.001
420.00	0.001
420.17	0.001
420.33	0.001
420.50	0.001
420.67	0.001
420.83	0.001
421.00	0.001
421.17	0.001
421.33	0.001
421.50	0.001
421.67	0.001
421.83	0.001
422.00	0.001
422.17	0.001
422.33	0.001
422.50	0.001
422.67	0.001
422.83	0.001
423.00	0.001
423.17	0.001
423.33	0.001
423.50	0.001
423.67	0.001
423.83	0.001
424.00	0.001
424.17	0.001
424.33	0.001
424.50	0.001
424.67	0.001
424.83	0.001
425.00	0.001
425.17	0.001
425.33	0.001
425.50	0.001
425.67	0.001
425.83	0.001
426.00	0.001
426.17	0.001
426.33	0.001
426.50	0.001
426.67	0.001
426.83	0.001
427.00	0.001
427.17	0.001
427.33	0.001
427.50	0.001
427.67	0.001
427.83	0.001
428.00	0.001
428.17	0.001
428.33	0.001
428.50	0.001
428.67	0.001
428.83	0.000
429.00	0.000
429.17	0.000
429.33	0.000
429.50	0.000
429.67	0.000
429.83	0.000
430.00	0.000
430.17	0.000
430.33	0.000
430.50	0.000
430.67	0.000
430.83	0.000
431.00	0.000
431.17	0.000
431.33	0.000
431.50	0.000
431.67	0.000
431.83	0.000
432.00	0.000
432.17	0.000
432.33	0.000
432.50	0.000
432.67	0.000
432.83	0.000
433.00	0.000
433.17	0.000
433.33	0.000
433.50	0.000
433.67	0.000
433.83	0.000
434.00	0.000
434.17	0.000
434.33	0.000
434.50	0.000
434.67	0.000
434.83	0.000
435.00	0.000
435.17	0.000
435.33	0.000
435.50	0.000
435.67	0.000
435.83	0.000
436.00	0.000
436.17	0.000
436.33	0.000
436.50	0.000

TIME hrs	FLOW cms
436.67	0.000
436.83	0.000
437.00	0.000
437.17	0.000
437.33	0.000
437.50	0.000
437.67	0.000
437.83	0.000
438.00	0.000
438.17	0.000
438.33	0.000
438.50	0.000
438.67	0.000
438.83	0.000
439.00	0.000
439.17	0.000
439.33	0.000
439.50	0.000
439.67	0.000
439.83	0.000
440.00	0.000
440.17	0.000
440.33	0.000
440.50	0.000
440.67	0.000
440.83	0.000
441.00	0.000
441.17	0.000
441.33	0.000
441.50	0.000
441.67	0.000
441.83	0.000
442.00	0.000
442.17	0.000
442.33	0.000
442.50	0.000
442.67	0.000
442.83	0.000
443.00	0.000
443.17	0.000
443.33	0.000
443.50	0.000
443.67	0.000
443.83	0.000
444.00	0.000
444.17	0.000
444.33	0.000
444.50	0.000
444.67	0.000
444.83	0.000
445.00	0.000
445.17	0.000
445.33	0.000
445.50	0.000
445.67	0.000
445.83	0.000
446.00	0.000
446.17	0.000
446.33	0.000
446.50	0.000
446.67	0.000
446.83	0.000
447.00	0.000
447.17	0.000
447.33	0.000
447.50	0.000
447.67	0.000
447.83	0.000
448.00	0.000
448.17	0.000
448.33	0.000
448.50	0.000
448.67	0.000
448.83	0.000
449.00	0.000
449.17	0.000
449.33	0.000
449.50	0.000
449.67	0.000
449.83	0.000
450.00	0.000
450.17	0.000
450.33	0.000
450.50	0.000
450.67	0.000
450.83	0.000
451.00	0.000
451.17	0.000
451.33	0.000
451.50	0.000
451.67	0.000
451.83	0.000
452.00	0.000
452.17	0.000
452.33	0.000
452.50	0.000
452.67	0.000
452.83	0.000
453.00	0.000
453.17	0.000
453.33	0.000
453.50	0.000
453.67	0.000
453.83	0.000
454.00	0.000
454.17	0.000
454.33	0.000
454.50	0.000
454.67	0.000
454.83	0.000
455.00	0.000
455.17	0.000
455.33	0.000
455.50	0.000
455.67	0.000
455.83	0.000
456.00	0.000
456.17	0.000
456.33	0.000
456.50	0.000
456.67	0.000
456.83	0.000
457.00	0.000
457.17	0.000
457.33	0.000
457.50	0.000
457.67	0.000
457.83	0.000
458.00	0.000
458.17	0.000
458.33	0.000

TIME hrs	FLOW cms
458.50	0.000
458.67	0.000
458.83	0.000
459.00	0.000
459.17	0.000
459.33	0.000
459.50	0.000
459.67	0.000
459.83	0.000
460.00	0.000
460.17	0.000
460.33	0.000
460.50	0.000
460.67	0.000
460.83	0.000
461.00	0.000
461.17	0.000
461.33	0.000
461.50	0.000
461.67	0.000
461.83	0.000
462.00	0.000
462.17	0.000
462.33	0.000
462.50	0.000
462.67	0.000
462.83	0.000
463.00	0.000
463.17	0.000
463.33	0.000
463.50	0.000
463.67	0.000
463.83	0.000
464.00	0.000
464.17	0.000
464.33	0.000
464.50	0.000
464.67	0.000
464.83	0.000
465.00	0.000
465.17	0.000
465.33	0.000
465.50	0.000
465.67	0.000
465.83	0.000
466.00	0.000
466.17	0.000
466.33	0.000
466.50	0.000
466.67	0.000
466.83	0.000
467.00	0.000
467.17	0.000
467.33	0.000
467.50	0.000
467.67	0.000
467.83	0.000
468.00	0.000
468.17	0.000
468.33	0.000
468.50	0.000
468.67	0.000
468.83	0.000
469.00	0.000
469.17	0.000
469.33	0.000
469.50	0.000
469.67	0.000
469.83	0.000
470.00	0.000
470.17	0.000
470.33	0.000
470.50	0.000
470.67	0.000
470.83	0.000
471.00	0.000
471.17	0.000
471.33	0.000
471.50	0.000
471.67	0.000
471.83	0.000
472.00	0.000
472.17	0.000
472.33	0.000
472.50	0.000
472.67	0.000
472.83	0.000
473.00	0.000
473.17	0.000
473.33	0.000
473.50	0.000
473.67	0.000
473.83	0.000
474.00	0.000
474.17	0.000
474.33	0.000
474.50	0.000
474.67	0.000
474.83	0.000
475.00	0.000
475.17	0.000
475.33	0.000
475.50	0.000
475.67	0.000
475.83	0.000
476.00	0.000
476.17	0.000
476.33	0.000
476.50	0.000
476.67	0.000
476.83	0.000
477.00	0.000
477.17	0.000
477.33	0.000
477.50	0.000
477.67	0.000
477.83	0.000
478.00	0.000
478.17	0.000
478.33	0.000
478.50	0.000
478.67	0.000
478.83	0.000
479.00	0.000
479.17	0.000
479.33	0.000
479.50	0.000
479.67	0.000
479.83	0.000
480.00	0.000
480.17	0.000

S_N2 (JR SUMMER)



Hydrograph Statistics:

Legend	Filename & Comment	Time Step (min)	Drainage Area (ha)	Peak Flow (cms)	Time to Peak (hrs)	Runoff Volume (mm)	Runoff Volume (cu.m)	Duration of flow (hrs)	Average flow (cms)
——△——	H_SN2.100 : flow at S_N2 Jock River Gauge at Moodie Dr.	10.00	52298.00	139.047	32.500	38.74	2.026E+07	467.000	12.051

Hydrograph Table:

Hydrograph Filename : Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\JRSUMM~1\H_SN2.100
Comment in file : flow at S_N2 Jock River Gauge at Moodie Dr.

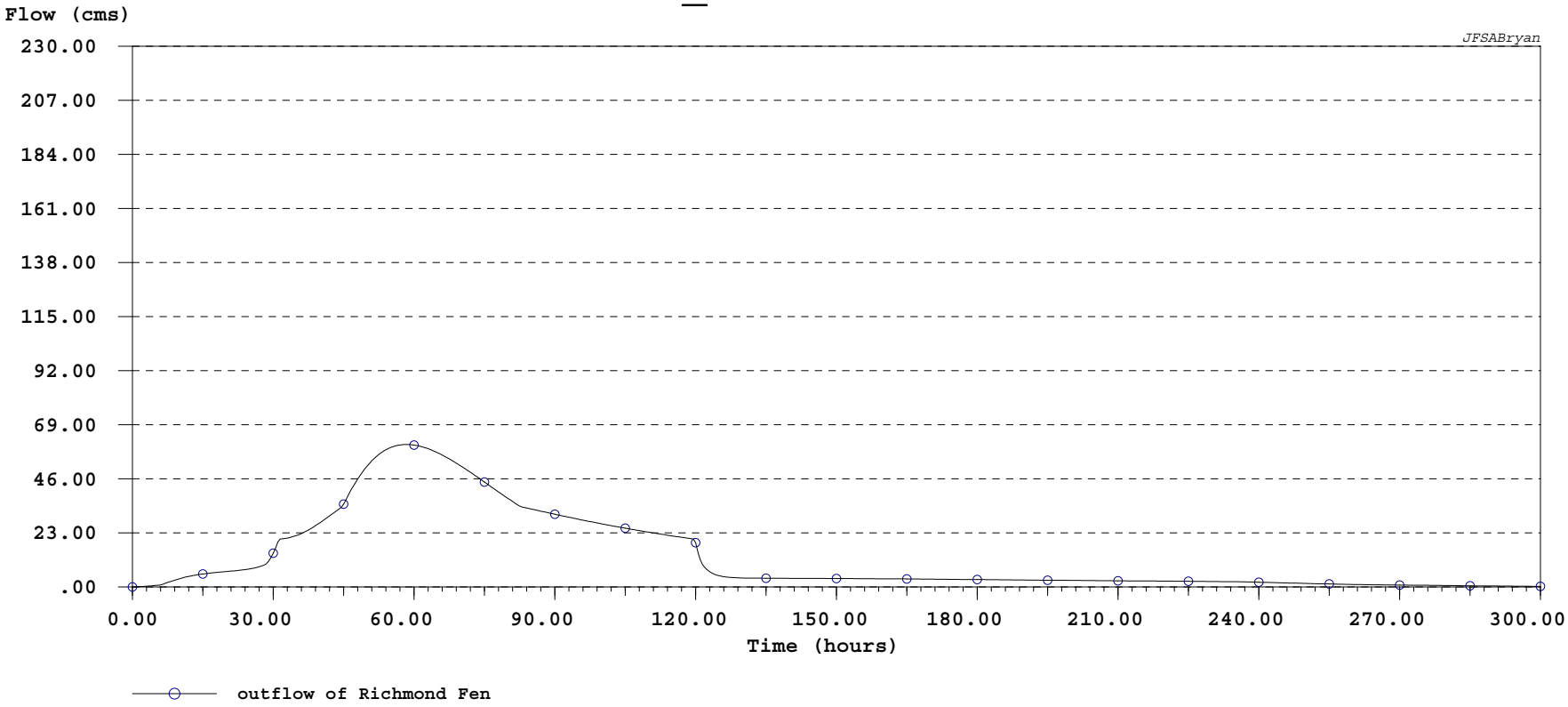
TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
0.00	0.000	21.83	18.326	43.67	62.024	65.50	59.295	87.33	34.750
0.17	0.321	22.00	18.366	43.83	61.181	65.67	59.290	87.50	34.640
0.33	0.653	22.17	18.407	44.00	60.351	65.83	59.264	87.67	34.496
0.50	0.997	22.33	18.443	44.17	59.567	66.00	59.126	87.83	34.356
0.67	1.028	22.50	18.474	44.33	58.797	66.17	59.018	88.00	34.276
0.83	1.058	22.67	18.509	44.50	58.025	66.33	58.866	88.17	34.196
1.00	1.090	22.83	18.542	44.67	57.294	66.50	58.684	88.33	34.063
1.17	1.123	23.00	18.571	44.83	56.575	66.67	58.641	88.50	33.933
1.33	1.158	23.17	18.607	45.00	55.874	66.83	58.617	88.67	33.852
1.50	1.196	23.33	18.643	45.17	55.246	67.00	58.467	88.83	33.769
1.67	1.237	23.50	18.677	45.33	54.647	67.17	58.277	89.00	33.642
1.83	1.282	23.67	18.722	45.50	54.047	67.33	58.074	89.17	33.527
2.00	1.332	23.83	18.768	45.67	53.513	67.50	58.017	89.33	33.461
2.17	1.388	24.00	18.814	45.83	53.001	67.67	57.958	89.50	33.386
2.33	1.442	24.17	18.875	46.00	52.512	67.83	57.759	89.67	33.262
2.50	1.490	24.33	18.939	46.17	52.069	68.00	57.551	89.83	33.147
2.67	1.539	24.50	19.003	46.33	51.681	68.17	57.360	90.00	33.087
2.83	1.587	24.67	19.088	46.50	51.216	68.33	57.326	90.17	33.017
3.00	1.637	24.83	19.177	46.67	50.941	68.50	57.253	90.33	32.892
3.17	1.686	25.00	19.268	46.83	50.699	68.67	57.007	90.50	32.770
3.33	1.736	25.17	19.386	47.00	50.370	68.83	56.787	90.67	32.705
3.50	1.785	25.33	19.513	47.17	50.098	69.00	56.707	90.83	32.647
3.67	1.834	25.50	19.645	47.33	49.934	69.17	56.597	91.00	32.541
3.83	1.883	25.67	19.802	47.50	49.791	69.33	56.341	91.17	32.430
4.00	1.931	25.83	19.970	47.67	49.611	69.50	56.114	91.33	32.361
4.17	1.979	26.00	20.158	47.83	49.464	69.67	56.045	91.50	32.297
4.33	2.023	26.17	20.406	48.00	49.348	69.83	55.941	91.67	32.199
4.50	2.063	26.33	20.654	48.17	49.286	70.00	55.674	91.83	32.102
4.67	2.102	26.50	20.915	48.33	49.254	70.17	55.436	92.00	31.997
4.83	2.140	26.67	21.288	48.50	49.242	70.33	55.358	92.17	31.950
5.00	2.177	26.83	21.692	48.67	49.260	70.50	55.250	92.33	31.904
5.17	2.214	27.00	22.107	48.83	49.296	70.67	54.982	92.50	31.805
5.33	2.249	27.17	22.834	49.00	49.337	70.83	54.736	92.67	31.707
5.50	2.282	27.33	23.651	49.17	49.393	71.00	54.646	92.83	31.605
5.67	2.312	27.50	24.516	49.33	49.475	71.17	54.540	93.00	31.556
5.83	2.342	27.67	28.781	49.50	49.488	71.33	54.278	93.17	31.508
6.00	2.371	27.83	33.692	49.67	49.526	71.50	54.026	93.33	31.410
6.17	2.399	28.00	38.818	49.83	49.670	71.67	53.923	93.50	31.313
6.33	2.426	28.17	45.420	50.00	49.828	71.83	53.796	93.67	31.214
6.50	2.453	28.33	52.679	50.17	49.910	72.00	53.522	93.83	31.169
6.67	2.479	28.50	60.208	50.33	50.009	72.17	53.274	94.00	31.124
6.83	2.505	28.67	67.416	50.50	50.230	72.33	53.168	94.17	31.027
7.00	2.530	28.83	74.653	50.67	50.367	72.50	53.037	94.33	30.931
7.17	2.554	29.00	81.976	50.83	50.513	72.67	52.763	94.50	30.836
7.33	2.578	29.17	88.534	51.00	50.775	72.83	52.596	94.67	30.793
7.50	2.602	29.33	94.824	51.17	50.928	73.00	52.417	94.83	30.749
7.67	2.626	29.50	101.064	51.33	51.085	73.17	52.148	95.00	30.656
7.83	2.650	29.67	106.203	51.50	51.379	73.33	51.996	95.17	30.563
8.00	2.674	29.83	111.042	51.67	51.554	73.50	51.829	95.33	30.472
8.17	2.698	30.00	115.940	51.83	51.730	73.67	51.556	95.50	30.429
8.33	2.722	30.17	119.749	52.00	52.049	73.83	51.393	95.67	30.387
8.50	2.747	30.33	123.228	52.17	52.234	74.00	51.208	95.83	30.296
8.67	2.772	30.50	126.652	52.33	52.419	74.17	50.918	96.00	30.206
8.83	2.798	30.67	129.090	52.50	52.754	74.33	50.752	96.17	30.116
9.00	2.825	30.83	131.324	52.67	52.946	74.50	50.571	96.33	30.074
9.17	2.854	31.00	133.494	52.83	53.132	74.67	50.279	96.50	30.032
9.33	2.883	31.17	134.868	53.00	53.469	74.83	50.110	96.67	29.943
9.50	2.915	31.33	136.095	53.17	53.661	75.00	49.923	96.83	29.854
9.67	2.948	31.50	137.251	53.33	53.847	75.17	49.629	97.00	29.766
9.83	2.983	31.67	137.878	53.50	54.185	75.33	49.458	97.17	29.724
10.00	3.018	31.83	138.441	53.67	54.375	75.50	49.271	97.33	29.682
10.17	3.052	32.00	138.942	53.83	54.559	75.67	48.973	97.50	29.594
10.33	3.087	32.17	139.001	54.00	54.901	75.83	48.800	97.67	29.506
10.50	3.123	32.33	138.987	54.17	55.090	76.00	48.612	97.83	29.419
10.67	3.161	32.50	139.047	54.33	55.251	76.17	48.315	98.00	29.377
10.83	3.202	32.67	138.532	54.50	55.567	76.33	48.140	98.17	29.335
11.00	3.246	32.83	137.932	54.67	55.758	76.50	47.951	98.33	29.248
11.17	3.294	33.00	137.375	54.83	55.922	76.67	47.653	98.50	29.161
11.33	3.347	33.17	136.600	55.00	56.221	76.83	47.478	98.67	29.074
11.50	3.405	33.33	135.752	55.17	56.395	77.00	47.288	98.83	29.033
11.67	3.469	33.50	134.739	55.33	56.549	77.17	46.991	99.00	28.991
11.83	3.536	33.67	133.826	55.50	56.835	77.33	46.814	99.17	28.905
12.00	3.602	33.83	132.821	55.67	57.000	77.50	46.624	99.33	28.819
12.17	3.677	34.00	131.687	55.83	57.144	77.67	46.328	99.50	28.734
12.33	3.766	34.17	130.291	56.00	57.414	77.83	46.147	99.67	28.692
12.50	3.864	34.33	128.850	56.17	57.587	78.00	45.939	99.83	28.651
12.67	3.970	34.50	127.573	56.33	57.737	78.17	45.618	100.00	28.566
12.83	4.092	34.67	126.343	56.50	57.945	78.33	45.428	100.17	28.482
13.00	4.227	34.83	125.060	56.67	58.159	78.50	45.234	100.33	28.398
13.17	4.375	35.00	123.680	56.83	58.272	78.67	44.926	100.50	28.357
13.33	4.538	35.17	122.599	57.00	58.372	78.83	44.733	100.67	28.316
13.50	4.716	35.33	121.389	57.17	58.565	79.00	44.534	100.83	28.233
13.67	4.903	35.50	119.830	57.33	58.758	79.17	44.235	101.00	28.149
13.83	5.102	35.67	118.429	57.50	58.973	79.33	44.048	101.17	28.067
14.00	5.322	35.83	117.333	57.67	59.032	79.50	43.852	101.33	28.027
14.17	5.562	36.00	116.120	57.83	59.068	79.67	43.557	101.50	27.986
14.33	5.840	36.17	114.620	58.00	59.215	79.83	43.372	101.67	27.904
14.50	6.157	36.33	113.447	58.17	59.367	80.00	43.177	101.83	27.823
14.67	6.491	36.50	112.228	58.33	59.546	80.17	42.884	102.00	27.742
14.83	6.847	36.67	110.722	58.50	59.714	80.33	42.701	102.17	27.703
15.00	7.224	36.83	109.576	58.67	59.731	80.50	42.511	102.33	27.662
15.17	7.600	37.00	108.380	58.83	59.743	80.67	42.227	102.50	27.582
15.33	7.975	37.17	107.041	59.00	59.867	80.83	42.048	102.67	27.502
15.50	8.368	37.33	105.708	59.17	59.968	81.00	41.858	102.83	27.423
15.67	8.773	37.50	104.478	59.33	60.057	81.17	41.578	103.00	27.384
15.83	9.199	37.67	103.288	59.50	60.143	81.33	41.406	103.17	27.344
16.00	9.652	37.83	102.055	59.67	60.241	81.50	41.220	103.33	27.265
16.17	10.114	38.00	100.812	59.83	60.333	81.67	40.933	103.50	27.187
16.33	10.578	38.17	99.640	60.00	60.408	81.83	40.759	103.67	27.109
16.50	11.043	38.33	98.436	60.17	60.355	82.00	40.576	103.83	27.067
16.67	11.504	38.50	97.253	60.33	60.321	82.17	40.290	104.00	27.024
16.83	11.957	38.67	96.155	60.50	60.414	82.33	40.115	104.17	26.942
17.00	12.399	38.83	95.064	60.67	60.484	82.50	39.932	104.33	26.861
17.17	12.810	39.00	93.976	60.83	60.536	82.67	39.648	104.50	26.779
17.33	13.189	39.17	92.963	61.00	60.572	82.83	39.474	104.67	26.739
17.50	13.554	39.33	91.962	61.17	60.597	83.00	39.290	104.83	26.698
17.67	13.906	39.50	90.959	61.33	60.611	83.17	39.003	105.00	26.618
17.83	14.245	39.67	89.312	61.50	60.616	83.33	38.822	105.17	26.538
18.00	14.583	39.83	87.556	61.67	60.612	83.50	38.635	105.33	26.459
18.17	14.924	40.00	85.627	61.83	60.601	83.67	38.351	105.50	26.417
18.33	15.246	40.17	84.329	62.00	60.582	83.83	38.175	105.67	26.373
18.50	15.546	40.33	83.190	62.17	60.556	84.00	37.995	105.83	26.294
18.67	15.827	40.50	81.991	62.33	60.525	84.17	37.737	106.00	26.217
18.83	16.087	40.67	80.816	62.50	60.488	84.33	37.573	106.17	26.140
19.00	16.326	40.83	79.690	62.67	60.445	84.50	37.400	106.33	26.099
19.17	16.548	41.00	78.573	62.83	60.398	84.67	37.160	106.50	26.055
19.33	16.753	41.17	77.436	63.00	60.346	84.83	37.008	106.67	25.977
19.50	16.939	41.33	76.307	63.17	60.289	85.00	36.848	106.83	25.902
19.67	17.113	41.50	75.197	63.33	60.229	85.17	36.624	107.00	25.828
19.83	17.280	41.67	74.097	63.50	60.164	85.33	36.482	107.17	25.788
20.00	17.420	41.83	72.997	63.67	60.105	85.50	36.334	107.33	25.746
20.17	17.549	42.00	71.911	63.83	60.061	85.67	36.128	107.50	25.670
20.33	17.668	42.17	70.818	64.00	60.013	85.83	35.995	107.67	25.597
20.50	17.774	42.33	69.714	64.17	59.943	86.00	35.853	107.83	25.525
20.67	17.873	42.50	68.649	64.33	59.972	86.17	35.660	108.00	25.486
20.83	17.959	42.67	67.634	64.50	59.964	86.33	35.547	108.17	25.445
21.00	18.042	42.83	66.632	64.67	59.811	86.50	35.428	108.33	25.372
21.17	18.107	43.00	65.647	64.83	59.699	86.67	35.245	108.50	25.301
21.33	18.163	43.17	64.706	65.00	59.633	86.83	35.129	108.67	25.231
21.50	18.222	43.33	63.792	65.17	59.550	87.00	35.021	108.83	25.193
21.67	18.277	43.50	62.879	65.33	59.428	87.17	34.862	109.00	25.152

TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
109.17	25.081	131.00	7.301	152.83	3.640	174.67	3.373	196.50	2.968
109.33	25.012	131.17	7.190	153.00	3.637	174.83	3.369	196.67	2.968
109.50	24.943	131.33	7.082	153.17	3.635	175.00	3.366	196.83	2.967
109.67	24.906	131.50	6.979	153.33	3.633	175.17	3.362	197.00	2.963
109.83	24.866	131.67	6.879	153.50	3.630	175.33	3.359	197.17	2.959
110.00	24.796	131.83	6.782	153.67	3.628	175.50	3.355	197.33	2.955
110.17	24.729	132.00	6.688	153.83	3.631	175.67	3.352	197.50	2.951
110.33	24.661	132.17	6.596	154.00	3.633	175.83	3.349	197.67	2.947
110.50	24.624	132.33	6.507	154.17	3.630	176.00	3.345	197.83	2.944
110.67	24.585	132.50	6.421	154.33	3.627	176.17	3.342	198.00	2.941
110.83	24.517	132.67	6.336	154.50	3.624	176.33	3.339	198.17	2.938
111.00	24.451	132.83	6.255	154.67	3.621	176.50	3.340	198.33	2.937
111.17	24.385	133.00	6.175	154.83	3.619	176.67	3.341	198.50	2.937
111.33	24.348	133.17	6.097	155.00	3.618	176.83	3.337	198.67	2.933
111.50	24.309	133.33	6.022	155.17	3.616	177.00	3.334	198.83	2.929
111.67	24.242	133.50	5.949	155.33	3.614	177.17	3.330	199.00	2.925
111.83	24.177	133.67	5.877	155.50	3.612	177.33	3.326	199.17	2.921
112.00	24.112	133.83	5.808	155.67	3.610	177.50	3.323	199.33	2.917
112.17	24.076	134.00	5.741	155.83	3.608	177.67	3.319	199.50	2.914
112.33	24.038	134.17	5.675	156.00	3.606	177.83	3.316	199.67	2.911
112.50	23.972	134.33	5.611	156.17	3.604	178.00	3.313	199.83	2.908
112.67	23.908	134.50	5.549	156.33	3.602	178.17	3.309	200.00	2.905
112.83	23.844	134.67	5.488	156.50	3.600	178.33	3.306	200.17	2.905
113.00	23.808	134.83	5.429	156.67	3.598	178.50	3.303	200.33	2.905
113.17	23.770	135.00	5.372	156.83	3.596	178.67	3.304	200.50	2.901
113.33	23.705	135.17	5.317	157.00	3.594	178.83	3.305	200.67	2.897
113.50	23.642	135.33	5.263	157.17	3.592	179.00	3.301	200.83	2.893
113.67	23.579	135.50	5.207	157.33	3.591	179.17	3.297	201.00	2.890
113.83	23.544	135.67	5.157	157.50	3.594	179.33	3.294	201.17	2.886
114.00	23.507	135.83	5.110	157.67	3.596	179.50	3.290	201.33	2.883
114.17	23.442	136.00	5.062	157.83	3.593	179.67	3.286	201.50	2.879
114.33	23.380	136.17	5.016	158.00	3.590	179.83	3.283	201.67	2.877
114.50	23.318	136.33	4.971	158.17	3.587	180.00	3.279	201.83	2.874
114.67	23.283	136.50	4.925	158.33	3.584	180.17	3.275	202.00	2.874
114.83	23.246	136.67	4.878	158.50	3.582	180.33	3.272	202.17	2.874
115.00	23.183	136.83	4.834	158.67	3.581	180.50	3.269	202.33	2.870
115.17	23.122	137.00	4.791	158.83	3.579	180.67	3.270	202.50	2.866
115.33	23.061	137.17	4.750	159.00	3.577	180.83	3.271	202.67	2.862
115.50	23.026	137.33	4.710	159.17	3.575	181.00	3.267	202.83	2.858
115.67	22.989	137.50	4.672	159.33	3.573	181.17	3.263	203.00	2.854
115.83	22.927	137.67	4.641	159.50	3.571	181.33	3.259	203.17	2.851
116.00	22.866	137.83	4.611	159.67	3.569	181.50	3.255	203.33	2.847
116.17	22.806	138.00	4.579	159.83	3.567	181.67	3.252	203.50	2.845
116.33	22.771	138.17	4.548	160.00	3.565	181.83	3.248	203.67	2.844
116.50	22.734	138.33	4.519	160.17	3.563	182.00	3.244	203.83	2.843
116.67	22.672	138.50	4.490	160.33	3.561	182.17	3.241	204.00	2.839
116.83	22.612	138.67	4.461	160.50	3.559	182.33	3.238	204.17	2.835
117.00	22.552	138.83	4.433	160.67	3.557	182.50	3.234	204.33	2.832
117.17	22.517	139.00	4.406	160.83	3.555	182.67	3.235	204.50	2.828
117.33	22.480	139.17	4.380	161.00	3.557	182.83	3.236	204.67	2.825
117.50	22.418	139.33	4.354	161.17	3.559	183.00	3.232	204.83	2.821
117.67	22.358	139.50	4.330	161.33	3.556	183.17	3.229	205.00	2.818
117.83	22.294	139.67	4.305	161.50	3.553	183.33	3.225	205.17	2.815
118.00	22.252	139.83	4.282	161.67	3.550	183.50	3.221	205.33	2.814
118.17	22.208	140.00	4.259	161.83	3.548	183.67	3.217	205.50	2.812
118.33	22.141	140.17	4.237	162.00	3.546	183.83	3.213	205.67	2.809
118.50	22.075	140.33	4.215	162.17	3.544	184.00	3.210	205.83	2.805
118.67	22.011	140.50	4.195	162.33	3.542	184.17	3.206	206.00	2.802
118.83	21.969	140.67	4.169	162.50	3.539	184.33	3.203	206.17	2.799
119.00	21.927	140.83	4.154	162.67	3.537	184.50	3.200	206.33	2.796
119.17	21.863	141.00	4.139	162.83	3.535	184.67	3.201	206.50	2.793
119.33	21.802	141.17	4.115	163.00	3.532	184.83	3.202	206.67	2.790
119.50	21.740	141.33	4.100	163.17	3.530	185.00	3.198	206.83	2.787
119.67	21.700	141.50	4.086	163.33	3.528	185.17	3.194	207.00	2.785
119.83	21.657	141.67	4.064	163.50	3.525	185.33	3.190	207.17	2.784
120.00	21.586	141.83	4.051	163.67	3.523	185.50	3.186	207.33	2.781
120.17	21.508	142.00	4.038	163.83	3.521	185.67	3.182	207.50	2.778
120.33	21.437	142.17	4.019	164.00	3.518	185.83	3.178	207.67	2.775
120.50	21.344	142.33	4.007	164.17	3.521	186.00	3.175	207.83	2.772
120.67	21.209	142.50	3.995	164.33	3.523	186.17	3.171	208.00	2.769
120.83	21.082	142.67	3.977	164.50	3.519	186.33	3.167	208.17	2.766
121.00	20.927	142.83	3.961	164.67	3.516	186.50	3.168	208.33	2.763
121.17	20.747	143.00	3.954	164.83	3.513	186.67	3.168	208.50	2.760
121.33	20.549	143.17	3.946	165.00	3.511	186.83	3.164	208.67	2.758
121.50	20.340	143.33	3.930	165.17	3.509	187.00	3.160	208.83	2.756
121.67	20.115	143.50	3.916	165.33	3.506	187.17	3.156	209.00	2.755
121.83	19.871	143.67	3.910	165.50	3.503	187.33	3.152	209.17	2.752
122.00	19.613	143.83	3.903	165.67	3.500	187.50	3.148	209.33	2.749
122.17	19.317	144.00	3.889	165.83	3.498	187.67	3.144	209.50	2.746
122.33	19.015	144.17	3.876	166.00	3.495	187.83	3.140	209.67	2.743
122.50	18.710	144.33	3.869	166.17	3.492	188.00	3.137	209.83	2.740
122.67	18.404	144.50	3.864	166.33	3.490	188.17	3.133	210.00	2.738
122.83	18.096	144.67	3.852	166.50	3.487	188.33	3.134	210.17	2.735
123.00	17.787	144.83	3.841	166.67	3.485	188.50	3.134	210.33	2.732
123.17	17.479	145.00	3.831	166.83	3.482	188.67	3.130	210.50	2.729
123.33	17.173	145.17	3.827	167.00	3.484	188.83	3.125	210.67	2.728
123.50	16.867	145.33	3.823	167.17	3.486	189.00	3.121	210.83	2.727
123.67	16.565	145.50	3.813	167.33	3.482	189.17	3.117	211.00	2.724
123.83	16.267	145.67	3.805	167.50	3.479	189.33	3.113	211.17	2.721
124.00	15.975	145.83	3.797	167.67	3.476	189.50	3.108	211.33	2.718
124.17	15.686	146.00	3.788	167.83	3.473	189.67	3.104	211.50	2.715
124.33	15.401	146.17	3.786	168.00	3.470	189.83	3.101	211.67	2.712
124.50	15.120	146.33	3.784	168.17	3.467	190.00	3.101	211.83	2.709
124.67	14.839	146.50	3.775	168.33	3.464	190.17	3.101	212.00	2.706
124.83	14.554	146.67	3.768	168.50	3.462	190.33	3.096	212.17	2.704
125.00	14.244	146.83	3.760	168.67	3.459	190.50	3.092	212.33	2.701
125.17	13.921	147.00	3.754	168.83	3.456	190.67	3.087	212.50	2.700
125.33	13.613	147.17	3.748	169.00	3.453	190.83	3.083	212.67	2.698
125.50	13.326	147.33	3.748	169.17	3.450	191.00	3.079	212.83	2.696
125.67	13.064	147.50	3.746	169.33	3.448	191.17	3.075	213.00	2.693
125.83	12.813	147.67	3.740	169.50	3.445	191.33	3.071	213.17	2.690
126.00	12.565	147.83	3.733	169.67	3.447	191.50	3.067	213.33	2.687
126.17	12.323	148.00	3.727	169.83	3.448	191.67	3.067	213.50	2.684
126.33	12.086	148.17	3.721	170.00	3.444	191.83	3.067	213.67	2.681
126.50	11.853	148.33	3.716	170.17	3.441	192.00	3.062	213.83	2.678
126.67	11.626	148.50	3.711	170.33	3.438	192.17	3.057	214.00	2.676
126.83	11.407	148.67	3.706	170.50	3.435	192.33	3.053	214.17	2.673
127.00	11.194	148.83	3.708	170.67	3.432	192.50	3.048	214.33	2.672
127.17	10.986	149.00	3.709	170.83	3.429	192.67	3.044	214.50	2.671
127.33	10.783	149.17	3.704	171.00	3.426	192.83	3.040	214.67	2.668
127.50	10.584	149.33	3.699	171.17	3.423	193.00	3.037	214.83	2.665
127.67	10.389	149.50	3.695	171.33	3.420	193.17	3.033	215.00	2.662
127.83	10.201	149.67	3.691	171.50	3.417	193.33	3.033	215.17	2.659
128.00	10.018	149.83	3.686	171.67	3.414	193.50	3.032	215.33	2.656
128.17	9.837	150.00	3.683	171.83	3.411	193.67	3.028	215.50	2.653
128.33	9.659	150.17	3.679	172.00	3.412	193.83	3.023	215.67	2.651
128.50	9.484	150.33	3.676	172.17	3.413	194.00	3.019	215.83	2.648
128.67	9.313	150.50	3.672	172.33	3.409	194.17	3.015	216.00	2.645
128.83	9.147	150.67	3.669	172.50	3.406	194.33	3.010	216.17	2.644
129.00	8.984	150.83	3.666	172.67	3.403	194.50	3.007	216.33	2.643
129.17	8.819	151.00	3.668	172.83	3.399	194.67	3.003	216.50	2.640
129.33	8.650	151.17	3.670	173.00	3.396	194.83	3.000	216.67	2.637
129.50	8.484	151.33	3.666	173.17	3.393	195.00	3.000	216.83	2.634
129.67	8.325	151.50	3.663	173.33	3.389	195.17	2.999	217.00	2.632
129.83	8.173	151.67	3.660	173.50	3.386	195.33	2.995	217.17	2.629
130.00	8.030	151.83	3.657	173.67	3.383	195.50	2.990	217.33	2.626
130.17	7.900	152.00	3.654	173.83	3.380	195.67	2.986	217.50	2.623
130.33	7.774	152.17	3.651	174.00	3.377	195.83	2.982	217.67	2.621
130.50	7.651	152.33	3.648	174.17	3.374	196.00	2.978	217.83	2.618
130.67	7.531	152.50	3.645	174.33	3.375	196.17	2.975	218.00	2.617
130.83	7.415	152.67	3.643	174.50	3.376	196.33	2.971	218.17	2.616

TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
218.33	2.613	240.17	2.258	262.00	1.440	283.83	0.822	305.67	0.402
218.50	2.610	240.33	2.254	262.17	1.434	284.00	0.819	305.83	0.399
218.67	2.607	240.50	2.250	262.33	1.428	284.17	0.816	306.00	0.396
218.83	2.604	240.67	2.245	262.50	1.422	284.33	0.813	306.17	0.393
219.00	2.602	240.83	2.240	262.67	1.416	284.50	0.809	306.33	0.390
219.17	2.599	241.00	2.236	262.83	1.409	284.67	0.806	306.50	0.387
219.33	2.596	241.17	2.232	263.00	1.404	284.83	0.803	306.67	0.384
219.50	2.593	241.33	2.228	263.17	1.398	285.00	0.799	306.83	0.381
219.67	2.591	241.50	2.223	263.33	1.391	285.17	0.796	307.00	0.378
219.83	2.590	241.67	2.218	263.50	1.385	285.33	0.793	307.17	0.375
220.00	2.588	241.83	2.213	263.67	1.379	285.50	0.790	307.33	0.372
220.17	2.586	242.00	2.209	263.83	1.373	285.67	0.786	307.50	0.369
220.33	2.583	242.17	2.204	264.00	1.367	285.83	0.783	307.67	0.366
220.50	2.580	242.33	2.199	264.17	1.361	286.00	0.780	307.83	0.363
220.67	2.577	242.50	2.194	264.33	1.354	286.17	0.776	308.00	0.360
220.83	2.575	242.67	2.188	264.50	1.347	286.33	0.773	308.17	0.357
221.00	2.572	242.83	2.184	264.67	1.340	286.50	0.770	308.33	0.354
221.17	2.569	243.00	2.179	264.83	1.333	286.67	0.767	308.50	0.351
221.33	2.567	243.17	2.173	265.00	1.327	286.83	0.763	308.67	0.349
221.50	2.564	243.33	2.168	265.17	1.320	287.00	0.760	308.83	0.346
221.67	2.563	243.50	2.162	265.33	1.313	287.17	0.757	309.00	0.343
221.83	2.562	243.67	2.157	265.50	1.307	287.33	0.754	309.17	0.341
222.00	2.559	243.83	2.152	265.67	1.300	287.50	0.750	309.33	0.338
222.17	2.556	244.00	2.146	265.83	1.293	287.67	0.747	309.50	0.336
222.33	2.553	244.17	2.140	266.00	1.287	287.83	0.744	309.67	0.333
222.50	2.551	244.33	2.135	266.17	1.281	288.00	0.741	309.83	0.331
222.67	2.548	244.50	2.130	266.33	1.275	288.17	0.737	310.00	0.328
222.83	2.545	244.67	2.124	266.50	1.269	288.33	0.734	310.17	0.326
223.00	2.543	244.83	2.117	266.67	1.263	288.50	0.731	310.33	0.324
223.17	2.540	245.00	2.112	266.83	1.257	288.67	0.728	310.50	0.321
223.33	2.537	245.17	2.106	267.00	1.251	288.83	0.725	310.67	0.319
223.50	2.536	245.33	2.099	267.17	1.245	289.00	0.721	310.83	0.317
223.67	2.535	245.50	2.092	267.33	1.240	289.17	0.718	311.00	0.315
223.83	2.533	245.67	2.086	267.50	1.234	289.33	0.715	311.17	0.312
224.00	2.530	245.83	2.080	267.67	1.229	289.50	0.712	311.33	0.310
224.17	2.527	246.00	2.073	267.83	1.223	289.67	0.708	311.50	0.308
224.33	2.524	246.17	2.066	268.00	1.217	289.83	0.705	311.67	0.306
224.50	2.522	246.33	2.060	268.17	1.211	290.00	0.702	311.83	0.304
224.67	2.519	246.50	2.054	268.33	1.206	290.17	0.699	312.00	0.302
224.83	2.516	246.67	2.047	268.50	1.200	290.33	0.696	312.17	0.300
225.00	2.514	246.83	2.039	268.67	1.194	290.50	0.693	312.33	0.298
225.17	2.511	247.00	2.033	268.83	1.188	290.67	0.689	312.50	0.296
225.33	2.510	247.17	2.027	269.00	1.183	290.83	0.686	312.67	0.294
225.50	2.509	247.33	2.020	269.17	1.177	291.00	0.683	312.83	0.292
225.67	2.506	247.50	2.013	269.33	1.172	291.17	0.680	313.00	0.290
225.83	2.503	247.67	2.007	269.50	1.166	291.33	0.677	313.17	0.288
226.00	2.501	247.83	2.001	269.67	1.161	291.50	0.674	313.33	0.286
226.17	2.498	248.00	1.993	269.83	1.156	291.67	0.671	313.50	0.284
226.33	2.495	248.17	1.986	270.00	1.150	291.83	0.668	313.67	0.282
226.50	2.493	248.33	1.980	270.17	1.145	292.00	0.664	313.83	0.280
226.67	2.490	248.50	1.974	270.33	1.140	292.17	0.661	314.00	0.278
226.83	2.487	248.67	1.966	270.50	1.135	292.33	0.658	314.17	0.276
227.00	2.485	248.83	1.959	270.67	1.130	292.50	0.655	314.33	0.275
227.17	2.484	249.00	1.953	270.83	1.125	292.67	0.652	314.50	0.273
227.33	2.483	249.17	1.947	271.00	1.120	292.83	0.649	314.67	0.271
227.50	2.480	249.33	1.939	271.17	1.115	293.00	0.646	314.83	0.269
227.67	2.477	249.50	1.933	271.33	1.110	293.17	0.642	315.00	0.267
227.83	2.475	249.67	1.926	271.50	1.105	293.33	0.639	315.17	0.266
228.00	2.472	249.83	1.919	271.67	1.100	293.50	0.636	315.33	0.264
228.17	2.469	250.00	1.913	271.83	1.095	293.67	0.633	315.50	0.262
228.33	2.467	250.17	1.906	272.00	1.090	293.83	0.630	315.67	0.260
228.50	2.464	250.33	1.899	272.17	1.085	294.00	0.627	315.83	0.259
228.67	2.461	250.50	1.892	272.33	1.081	294.17	0.624	316.00	0.257
228.83	2.459	250.67	1.886	272.50	1.076	294.33	0.621	316.17	0.255
229.00	2.457	250.83	1.879	272.67	1.071	294.50	0.618	316.33	0.254
229.17	2.456	251.00	1.872	272.83	1.067	294.67	0.615	316.50	0.252
229.33	2.454	251.17	1.866	273.00	1.062	294.83	0.611	316.67	0.250
229.50	2.451	251.33	1.858	273.17	1.057	295.00	0.608	316.83	0.249
229.67	2.448	251.50	1.852	273.33	1.053	295.17	0.605	317.00	0.247
229.83	2.446	251.67	1.845	273.50	1.048	295.33	0.602	317.17	0.245
230.00	2.443	251.83	1.838	273.67	1.044	295.50	0.599	317.33	0.244
230.17	2.440	252.00	1.832	273.83	1.040	295.67	0.596	317.50	0.242
230.33	2.438	252.17	1.825	274.00	1.035	295.83	0.593	317.67	0.241
230.50	2.435	252.33	1.818	274.17	1.031	296.00	0.590	317.83	0.239
230.67	2.432	252.50	1.811	274.33	1.027	296.17	0.587	318.00	0.238
230.83	2.431	252.67	1.805	274.50	1.023	296.33	0.584	318.17	0.236
231.00	2.430	252.83	1.798	274.67	1.018	296.50	0.581	318.33	0.234
231.17	2.427	253.00	1.791	274.83	1.014	296.67	0.578	318.50	0.233
231.33	2.424	253.17	1.785	275.00	1.010	296.83	0.575	318.67	0.231
231.50	2.422	253.33	1.777	275.17	1.006	297.00	0.572	318.83	0.230
231.67	2.419	253.50	1.771	275.33	1.002	297.17	0.569	319.00	0.228
231.83	2.416	253.67	1.764	275.50	0.998	297.33	0.566	319.17	0.227
232.00	2.413	253.83	1.757	275.67	0.994	297.50	0.563	319.33	0.225
232.17	2.410	254.00	1.751	275.83	0.990	297.67	0.560	319.50	0.224
232.33	2.407	254.17	1.744	276.00	0.986	297.83	0.557	319.67	0.222
232.50	2.406	254.33	1.737	276.17	0.983	298.00	0.554	319.83	0.221
232.67	2.404	254.50	1.731	276.33	0.979	298.17	0.551	320.00	0.219
232.83	2.401	254.67	1.724	276.50	0.975	298.33	0.548	320.17	0.218
233.00	2.398	254.83	1.717	276.67	0.971	298.50	0.545	320.33	0.217
233.17	2.395	255.00	1.711	276.83	0.967	298.67	0.542	320.50	0.215
233.33	2.392	255.17	1.704	277.00	0.964	298.83	0.539	320.67	0.214
233.50	2.389	255.33	1.697	277.17	0.960	299.00	0.536	320.83	0.212
233.67	2.386	255.50	1.691	277.33	0.956	299.17	0.533	321.00	0.211
233.83	2.383	255.67	1.685	277.50	0.953	299.33	0.530	321.17	0.210
234.00	2.381	255.83	1.677	277.67	0.949	299.50	0.527	321.33	0.208
234.17	2.379	256.00	1.671	277.83	0.945	299.67	0.524	321.50	0.207
234.33	2.376	256.17	1.665	278.00	0.942	299.83	0.521	321.67	0.205
234.50	2.373	256.33	1.658	278.17	0.938	300.00	0.518	321.83	0.204
234.67	2.370	256.50	1.651	278.33	0.935	300.17	0.515	322.00	0.203
234.83	2.367	256.67	1.645	278.50	0.931	300.33	0.512	322.17	0.201
235.00	2.364	256.83	1.638	278.67	0.927	300.50	0.509	322.33	0.200
235.17	2.361	257.00	1.632	278.83	0.924	300.67	0.506	322.50	0.199
235.33	2.358	257.17	1.625	279.00	0.920	300.83	0.503	322.67	0.197
235.50	2.356	257.33	1.618	279.17	0.917	301.00	0.500	322.83	0.196
235.67	2.353	257.50	1.612	279.33	0.913	301.17	0.497	323.00	0.195
235.83	2.349	257.67	1.606	279.50	0.910	301.33	0.495	323.17	0.193
236.00	2.346	257.83	1.599	279.67	0.906	301.50	0.492	323.33	0.192
236.17	2.343	258.00	1.593	279.83	0.903	301.67	0.489	323.50	0.191
236.33	2.339	258.17	1.586	280.00	0.900	301.83	0.486	323.67	0.190
236.50	2.336	258.33	1.579	280.17	0.896	302.00	0.483	323.83	0.188
236.67	2.333	258.50	1.573	280.33	0.893	302.17	0.480	324.00	0.187
236.83	2.330	258.67	1.567	280.50	0.889	302.33	0.477	324.17	0.186
237.00	2.328	258.83	1.560	280.67	0.886	302.50	0.475	324.33	0.184
237.17	2.324	259.00	1.554	280.83	0.883	302.67	0.472	324.50	0.183
237.33	2.320	259.17	1.548	281.00	0.879	302.83	0.468	324.67	0.182
237.50	2.317	259.33	1.541	281.17	0.876	303.00	0.464	324.83	0.181
237.67	2.313	259.50	1.535	281.33	0.872	303.17	0.460	325.00	0.180
237.83	2.310	259.67	1.529	281.50	0.869	303.33	0.456	325.17	0.178
238.00	2.307	259.83	1.522	281.67	0.866	303.50	0.452	325.33	0.177
238.17	2.304	260.00	1.516	281.83	0.862	303.67	0.448	325.50	0.176
238.33	2.300	260.17	1.509	282.00	0.859	303.83	0.443	325.67	0.175
238.50	2.296	260.33	1.503	282.17	0.856	304.00	0.439	325.83	0.173
238.67	2.292	260.50	1.497	282.33	0.852	304.17	0.435	326.00	0.172
238.83	2.288	260.67	1.491	282.50	0.849	304.33	0.430	326.17	0.171
239.00	2.285	260.83	1.484	282.67	0.846	304.50	0.427	326.33	0.170
239.17	2.282	261.00	1.478	282.83	0.842	304.67	0.423	326.50	0.169
239.33	2.278	261.17	1.472	283.00	0.839	304.83	0.419	326.67	0.168
239.50	2.274	261.33	1.465	283.17	0.836	305.00	0.415	326.83	0.166
239.67	2.270	261.50	1.459	283.33	0.832	305.17	0.412	327.00	0.165
239.83	2.266	261.67	1.453	283.50	0.829	305.33	0.409	327.17	0.164
240.00	2.261	261.83	1.446	283.67	0.826	305.50	0.405	327.33	0.163

TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
327.50	0.162	349.33	0.060	371.17	0.019	393.00	0.005	414.83	0.001	436.67	0.000	458.50	0.000
327.67	0.161	349.50	0.059	371.33	0.018	393.17	0.005	415.00	0.001	436.83	0.000	458.67	0.000
327.83	0.160	349.67	0.059	371.50	0.018	393.33	0.005	415.17	0.001	437.00	0.000	458.83	0.000
328.00	0.159	349.83	0.058	371.67	0.018	393.50	0.005	415.33	0.001	437.17	0.000	459.00	0.000
328.17	0.157	350.00	0.058	371.83	0.018	393.67	0.005	415.50	0.001	437.33	0.000	459.17	0.000
328.33	0.156	350.17	0.057	372.00	0.018	393.83	0.005	415.67	0.001	437.50	0.000	459.33	0.000
328.50	0.155	350.33	0.057	372.17	0.018	394.00	0.005	415.83	0.001	437.67	0.000	459.50	0.000
328.67	0.154	350.50	0.056	372.33	0.017	394.17	0.005	416.00	0.001	437.83	0.000	459.67	0.000
328.83	0.153	350.67	0.056	372.50	0.017	394.33	0.005	416.17	0.001	438.00	0.000	459.83	0.000
329.00	0.152	350.83	0.055	372.67	0.017	394.50	0.005	416.33	0.001	438.17	0.000	460.00	0.000
329.17	0.151	351.00	0.055	372.83	0.017	394.67	0.005	416.50	0.001	438.33	0.000	460.17	0.000
329.33	0.150	351.17	0.055	373.00	0.017	394.83	0.004	416.67	0.001	438.50	0.000	460.33	0.000
329.50	0.149	351.33	0.054	373.17	0.017	395.00	0.004	416.83	0.001	438.67	0.000	460.50	0.000
329.67	0.148	351.50	0.054	373.33	0.016	395.17	0.004	417.00	0.001	438.83	0.000	460.67	0.000
329.83	0.147	351.67	0.053	373.50	0.016	395.33	0.004	417.17	0.001	439.00	0.000	460.83	0.000
330.00	0.146	351.83	0.053	373.67	0.016	395.50	0.004	417.33	0.001	439.17	0.000	461.00	0.000
330.17	0.145	352.00	0.052	373.83	0.016	395.67	0.004	417.50	0.001	439.33	0.000	461.17	0.000
330.33	0.144	352.17	0.052	374.00	0.016	395.83	0.004	417.67	0.001	439.50	0.000	461.33	0.000
330.50	0.143	352.33	0.052	374.17	0.016	396.00	0.004	417.83	0.001	439.67	0.000	461.50	0.000
330.67	0.142	352.50	0.051	374.33	0.015	396.17	0.004	418.00	0.001	439.83	0.000	461.67	0.000
330.83	0.141	352.67	0.051	374.50	0.015	396.33	0.004	418.17	0.001	440.00	0.000	461.83	0.000
331.00	0.140	352.83	0.050	374.67	0.015	396.50	0.004	418.33	0.001	440.17	0.000	462.00	0.000
331.17	0.139	353.00	0.050	374.83	0.015	396.67	0.004	418.50	0.001	440.33	0.000	462.17	0.000
331.33	0.138	353.17	0.050	375.00	0.015	396.83	0.004	418.67	0.001	440.50	0.000	462.33	0.000
331.50	0.137	353.33	0.049	375.17	0.015	397.00	0.004	418.83	0.001	440.67	0.000	462.50	0.000
331.67	0.136	353.50	0.049	375.33	0.015	397.17	0.004	419.00	0.001	440.83	0.000	462.67	0.000
331.83	0.135	353.67	0.048	375.50	0.014	397.33	0.004	419.17	0.001	441.00	0.000	462.83	0.000
332.00	0.134	353.83	0.048	375.67	0.014	397.50	0.004	419.33	0.001	441.17	0.000	463.00	0.000
332.17	0.133	354.00	0.048	375.83	0.014	397.67	0.004	419.50	0.001	441.33	0.000	463.17	0.000
332.33	0.132	354.17	0.047	376.00	0.014	397.83	0.004	419.67	0.001	441.50	0.000	463.33	0.000
332.50	0.131	354.33	0.047	376.17	0.014	398.00	0.004	419.83	0.001	441.67	0.000	463.50	0.000
332.67	0.130	354.50	0.046	376.33	0.014	398.17	0.004	420.00	0.001	441.83	0.000	463.67	0.000
332.83	0.129	354.67	0.046	376.50	0.014	398.33	0.004	420.17	0.001	442.00	0.000	463.83	0.000
333.00	0.128	354.83	0.046	376.67	0.013	398.50	0.004	420.33	0.001	442.17	0.000	464.00	0.000
333.17	0.127	355.00	0.045	376.83	0.013	398.67	0.004	420.50	0.001	442.33	0.000	464.17	0.000
333.33	0.126	355.17	0.045	377.00	0.013	398.83	0.004	420.67	0.001	442.50	0.000	464.33	0.000
333.50	0.125	355.33	0.044	377.17	0.013	399.00	0.003	420.83	0.001	442.67	0.000	464.50	0.000
333.67	0.124	355.50	0.044	377.33	0.013	399.17	0.003	421.00	0.001	442.83	0.000	464.67	0.000
333.83	0.123	355.67	0.044	377.50	0.013	399.33	0.003	421.17	0.001	443.00	0.000	464.83	0.000
334.00	0.122	355.83	0.043	377.67	0.013	399.50	0.003	421.33	0.001	443.17	0.000	465.00	0.000
334.17	0.122	356.00	0.043	377.83	0.013	399.67	0.003	421.50	0.001	443.33	0.000	465.17	0.000
334.33	0.121	356.17	0.043	378.00	0.012	399.83	0.003	421.67	0.001	443.50	0.000	465.33	0.000
334.50	0.120	356.33	0.042	378.17	0.012	400.00	0.003	421.83	0.001	443.67	0.000	465.50	0.000
334.67	0.119	356.50	0.042	378.33	0.012	400.17	0.003	422.00	0.001	443.83	0.000	465.67	0.000
334.83	0.118	356.67	0.041	378.50	0.012	400.33	0.003	422.17	0.001	444.00	0.000	465.83	0.000
335.00	0.117	356.83	0.041	378.67	0.012	400.50	0.003	422.33	0.001	444.17	0.000	466.00	0.000
335.17	0.116	357.00	0.041	378.83	0.012	400.67	0.003	422.50	0.001	444.33	0.000	466.17	0.000
335.33	0.115	357.17	0.040	379.00	0.012	400.83	0.003	422.67	0.001	444.50	0.000	466.33	0.000
335.50	0.114	357.33	0.040	379.17	0.012	401.00	0.003	422.83	0.001	444.67	0.000	466.50	0.000
335.67	0.114	357.50	0.040	379.33	0.011	401.17	0.003	423.00	0.001	444.83	0.000	466.67	0.000
335.83	0.113	357.67	0.039	379.50	0.011	401.33	0.003	423.17	0.001	445.00	0.000	466.83	0.000
336.00	0.112	357.83	0.039	379.67	0.011	401.50	0.003	423.33	0.001	445.17	0.000	467.00	0.000
336.17	0.111	358.00	0.039	379.83	0.011	401.67	0.003	423.50	0.001	445.33	0.000	467.17	0.000
336.33	0.110	358.17	0.038	380.00	0.011	401.83	0.003	423.67	0.001	445.50	0.000	467.33	0.000
336.50	0.109	358.33	0.038	380.17	0.011	402.00	0.003	423.83	0.001	445.67	0.000	467.50	0.000
336.67	0.109	358.50	0.038	380.33	0.011	402.17	0.003	424.00	0.001	445.83	0.000	467.67	0.000
336.83	0.108	358.67	0.037	380.50	0.011	402.33	0.003	424.17	0.001	446.00	0.000	467.83	0.000
337.00	0.107	358.83	0.037	380.67	0.011	402.50	0.003	424.33	0.001	446.17	0.000	468.00	0.000
337.17	0.106	359.00	0.037	380.83	0.011	402.67	0.003	424.50	0.001	446.33	0.000	468.17	0.000
337.33	0.105	359.17	0.036	381.00	0.010	402.83	0.003	424.67	0.001	446.50	0.000	468.33	0.000
337.50	0.105	359.33	0.036	381.17	0.010	403.00	0.003	424.83	0.001	446.67	0.000	468.50	0.000
337.67	0.104	359.50	0.036	381.33	0.010	403.17	0.003	425.00	0.001	446.83	0.000	468.67	0.000
337.83	0.103	359.67	0.035	381.50	0.010	403.33	0.003	425.17	0.001	447.00	0.000	468.83	0.000
338.00	0.102	359.83	0.035	381.67	0.010	403.50	0.003	425.33	0.001	447.17	0.000	469.00	0.000
338.17	0.101	360.00	0.035	381.83	0.010	403.67	0.003	425.50	0.001	447.33	0.000	469.17	0.000
338.33	0.101	360.17	0.034	382.00	0.010	403.83	0.003	425.67	0.001	447.50	0.000	469.33	0.000
338.50	0.100	360.33	0.034	382.17	0.010	404.00	0.003	425.83	0.001	447.67	0.000	469.50	0.000
338.67	0.099	360.50	0.034	382.33	0.010	404.17	0.003	426.00	0.001	447.83	0.000	469.67	0.000
338.83	0.098	360.67	0.034	382.50	0.010	404.33	0.003	426.17	0.001	448.00	0.000	469.83	0.000
339.00	0.098	360.83	0.033	382.67	0.009	404.50	0.002	426.33	0.001	448.17	0.000	470.00	0.000
339.17	0.097	361.00	0.033	382.83	0.009	404.67	0.002	426.50	0.001	448.33	0.000	470.17	0.000
339.33	0.096	361.17	0.033	383.00	0.009	404.83	0.002	426.67	0.001	448.50	0.000	470.33	0.000
339.50	0.095	361.33	0.032	383.17	0.009	405.00	0.002	426.83	0.001	448.67	0.000	470.50	0.000
339.67	0.095	361.50	0.032	383.33	0.009	405.17	0.002	427.00	0.001	448.83	0.000	470.67	0.000
339.83	0.094	361.67	0.032	383.50	0.009	405.33	0.002	427.17	0.001	449.00	0.000	470.83	0.000
340.00	0.093	361.83	0.032	383.67	0.009	405.50	0.002	427.33	0.001	449.17	0.000	471.00	0.000
340.17	0.092	362.00	0.031	383.83	0.009	405.67	0.002	427.50	0.001	449.33	0.000	471.17	0.000
340.33	0.092	362.17	0.031	384.00	0.009	405.83	0.002	427.67	0.001	449.50	0.000	471.33	0.000
340.50	0.091	362.33	0.031	384.17	0.009	406.00	0.002	427.83	0.001	449.67	0.000	471.50	0.000
340.67	0.090	362.50	0.030	384.33	0.009	406.17	0.002	428.00	0.001	449.83	0.000	471.67	0.000
340.83	0.090	362.67	0.030	384.50	0.008	406.33	0.002	428.17	0.001	450.00	0.000	471.83	0.000
341.00	0.089	362.83	0.030	384.67	0.008	406.50	0.002	428.33	0.001	450.17	0.000	472.00	0.000
341.17	0.088	363.00	0.030	384.83	0.008	406.67	0.002	428.50	0.001	450.33	0.000	472.17	0.000
341.33	0.087	363.17	0.029	385.00	0.008	406.83	0.002	428.67	0.001	450.50	0.000	472.33	0.000
341.50	0.087	363.33	0.029	385.17	0.008	407.00	0.002	428.83	0.001	450.67	0.000	472.50	0.000
341.67	0.086	363.50	0.029	385.33	0.008	407.17	0.002	429.00	0.001	450.83	0.000	472.67	0.000
341.83	0.085	363.67	0.028	385.50	0.008	407.33	0.002	429.17	0.001	451.00	0.000	472.83	0.000
342.00	0.085	363.83	0.028	385.67	0.008	407.50	0.002	429.33	0.001	451.17	0.000	473.00	0.000
342.17	0.084	364.00	0.028	385.83	0.008	407.67	0.002	429.50	0.001	451.33	0.000	473.17	0.000
342.33	0.083	364.17	0.028	386.00	0.008	407.83	0.002	429.67	0.001	451.50	0.000	473.33	0.000
342.50	0.083	364.33	0.027	386.17	0.008	408.00	0.002	429.83	0.001	451.67	0.000	473.50	0.000
342.67	0.082	364.50	0.027	386.33	0.008	408.17	0.002	430.00	0.001	451.83	0.000	473.67	0.000
342.83	0.081	364.67	0.027	386.50	0.007	408.33	0.002	430.17	0.001	452.00	0.000	473.83	0.000
343.00	0.081	364.83	0.027	386.67	0.007	408.50	0.002	430.33	0.001	452.17	0.000	474.00	0.000
343.17	0.080	365.00	0.026	386.83	0.007	408.67	0.002	430.50	0.001	452.33	0.000	474.17	0.000
343.33	0.079	365.17	0.026	387.00	0.007	408.83	0.002	430.67	0.001	452.50	0.000	474.33	0.000
343.50	0.079	365.33	0.026	387.17	0.007	409.00	0.002	430.83	0.001	452.67	0.000	474.50	0.000
343.67	0.078	365.50	0.026	387.33	0.007	409.17	0.002	431.00	0.001	452.83	0.000	474.67	0.000
343.83	0.077	365.67	0.025	387.50	0.007	409.33	0.002	431.17	0.001	453.00	0.000	474.83	0.000
344.00	0.077	365.83	0.025	387.67	0.007	409.50	0.002	431.33	0.001	453.17	0.000	475.00	0.000
344.17	0.076	366.00	0.025	387.83	0.007	409.67	0.002	431.50	0.001	453.33	0.000	475.17	0.000
344.33	0.075	366.17	0.025	388.00	0.007	409.83	0.002	431.67	0.000	453.50	0.000	475.33	0.000
344.50	0.075	366.33	0.025	388.17	0.007	410.00	0.002	431.83	0.000	453.67	0.000	475.50	0.000
344.67	0.074	366.50	0.024	388.33	0.007	410.17	0.002	432.00	0.000	453.83	0.000	475.67	0.000
344.83	0.073	366.67	0.024	388.50	0.007	410.33	0.002	432.17	0.000	454.00	0.000	475.83	0.000
345.00	0.073	366.83	0.024	388.67	0.007	410.50	0.002	432.33	0.000	454.17	0.000	476.00	0.000
345.17	0.072	367.00	0.024	388.83	0.006	410.67	0.002	432.50	0.000	454.33	0.000	476.17	0.000
345.33	0.072	367.17	0.023	389.00	0.006	410.83	0.002	432.67	0.000	454.50	0.000	476.33	0.000
345.50	0.071	367.33	0.023	389.17	0.006	411.00	0.002	432.83	0.000	454.67	0.000	476.50	0.000
345.67	0.070	367.50	0.023	389.33	0.006	411.17	0.002	433.00	0.000	454.83	0.000	476.67	0.000
345.83	0.070	367.67	0.023	389.50	0.006	411.33	0.002	433.17	0.000	455.00	0.000	476.83	0.000
346.00	0.069	367.83	0.023	389.67	0.006	411.50	0.002	433.33	0.000	455.17	0.000	477.00	0.000
346.17	0.069	368.00	0.022	389.83	0.006	411.67	0.002	433.50	0.000	455.33	0.000	477.17	0.000
346.33	0.068	368.17	0.022	390.00	0.006	411.83	0.002	433.67	0.000	455.50	0.000	477.33	0.000
346.50	0.068	368.33	0.022	390.17	0.006	412.00	0.002	433.83	0.000	455.67	0.000	477.50	0.000
346.67	0.067	368.50	0.022	390.33	0.006	412.17	0.002	434.00	0.000	455.83	0.000	477.67	0.000
346.83	0.067	368.67	0.021	390.50	0.006	412.33	0.002	434.17	0.000	456.00	0.000	477.83	0.000
347.00	0.066	368.83	0.021	390.67	0.006	412.50	0.002	434.33	0.000	456.17	0.000	478.00	0.000
347.17	0.066	369.00	0.021	390.83	0.006	412.67	0.002	434.50	0.000	456.33	0.000	478.17	0.000
347.33	0.065	369.17	0.021	391.00	0.006	412.83	0.002	434.67	0.000	456.50	0.000	478.33	0.000
347.50	0.065	369.33	0.021	391.17	0.006	413.00	0.001	434.83	0.000	456.67	0.000	478.50	0.000
347.67	0.064	369.50	0.020	391.33	0.006	413.17	0.001	435.00	0.000	456.83	0.000	478.67	0.000
347.83	0.064	369.67	0.020	391.50	0.006	413.33	0.001	435.17	0.000	457.00	0.000	478.83	0.000
348.00	0.063	369.83	0.020	391.67	0.005	413.50	0.001	435.33	0.000	457.17	0.000	479.00	0.000
348.17	0.063	370.00	0.020	391.83	0.005	413.67	0.001	435.50	0.000	457.33	0.000	479.17	0.000
348.33	0.062	370.17	0.020	392.00	0.005	413.83	0.001	435.67	0.000	457.50	0.000	479.33	0.000
348.50	0.062	370.33	0.020	392.17	0.005	414.00	0.001	435.83	0.000	457.67	0.000	479.50	0.000
348.67	0.061	370.50	0.019	392.33	0.005	414.17	0.001	436.00	0.000	457.83	0.000	479.67	0.000
348.83	0.061	370.67	0.019	392.50	0.005	414.33	0.001	436.17	0.000	458.00	0.000	479.83	0.000
349.00	0.060	370.83	0.019	392.67	0.005	414.50	0.001	436.33	0.000	458.17	0.000	480.00	0.000
349.17	0.060	371.00	0.019	392.83	0.005	414.67	0.001	436.50	0.000	458.33	0.000	480.17	0.000

RES_RF (JR SUMMER)



Hydrograph Statistics:

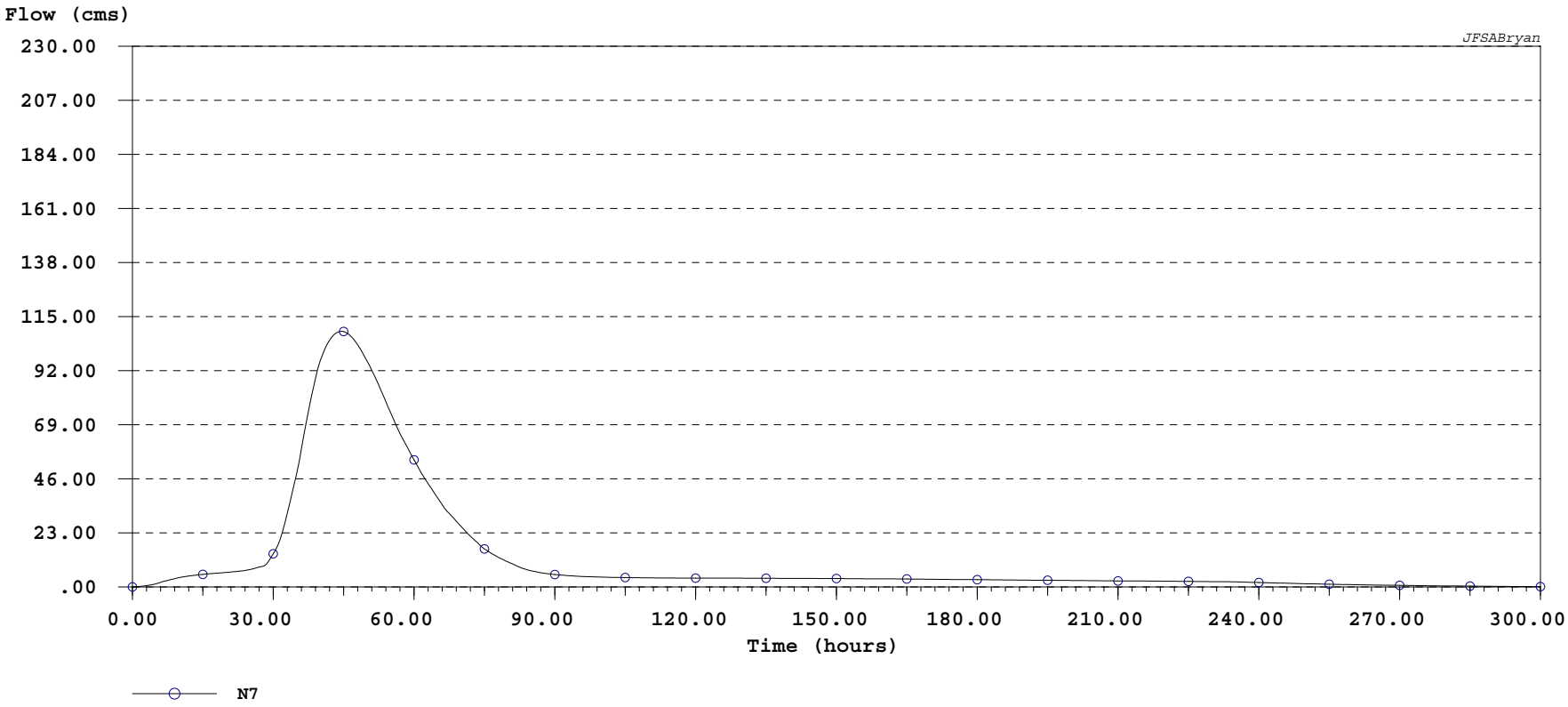
Legend	Filename & Comment	Time Step (min)	Drainage Area (ha)	Peak Flow (cms)	Time to Peak (hrs)	Runoff Volume (mm)	Runoff Volume (cu.m)	Duration of flow (hrs)	Average flow (cms)
——○——	H_RESRF.100 : outflow of Richmond Fen	30.00	38743.00	60.593	58.500	36.09	1.398E+07	440.500	8.817

Hydrograph Table:

Hydrograph Filename : Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\JRSUMM~1\H_RESRF.100
Comment in file : outflow of Richmond Fen

TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
0.00	0.000	36.50	23.183	73.00	47.418	109.50	23.451	146.00	3.617	182.50	3.090	219.00	2.489	255.50	1.246	292.00	0.368	328.50	0.051	365.00	0.006	401.50	0.001		
0.50	0.026	37.00	23.685	73.50	46.726	110.00	23.287	146.50	3.614	183.00	3.081	219.50	2.481	256.00	1.225	292.50	0.360	329.00	0.050	365.50	0.005	402.00	0.001		
1.00	0.078	37.50	24.227	74.00	46.029	110.50	23.123	147.00	3.611	183.50	3.071	220.00	2.474	256.50	1.204	293.00	0.351	329.50	0.048	366.00	0.005	402.50	0.001		
1.50	0.131	38.00	24.805	74.50	45.325	111.00	22.961	147.50	3.608	184.00	3.062	220.50	2.466	257.00	1.184	293.50	0.343	330.00	0.047	366.50	0.005	403.00	0.001		
2.00	0.187	38.50	25.416	75.00	44.619	111.50	22.800	148.00	3.604	184.50	3.053	221.00	2.459	257.50	1.163	294.00	0.335	330.50	0.046	367.00	0.005	403.50	0.001		
2.50	0.247	39.00	26.057	75.50	43.912	112.00	22.641	148.50	3.600	185.00	3.044	221.50	2.452	258.00	1.143	294.50	0.327	331.00	0.044	367.50	0.005	404.00	0.001		
3.00	0.311	39.50	26.725	76.00	43.206	112.50	22.483	149.00	3.596	185.50	3.035	222.00	2.444	258.50	1.124	295.00	0.320	331.50	0.043	368.00	0.005	404.50	0.001		
3.50	0.381	40.00	27.409	76.50	42.502	113.00	22.326	149.50	3.592	186.00	3.026	222.50	2.437	259.00	1.104	295.50	0.312	332.00	0.042	368.50	0.004	405.00	0.001		
4.00	0.457	40.50	28.102	77.00	41.801	113.50	22.170	150.00	3.588	186.50	3.017	223.00	2.430	259.50	1.085	296.00	0.305	332.50	0.040	369.00	0.004	405.50	0.000		
4.50	0.541	41.00	28.808	77.50	41.103	114.00	22.016	150.50	3.585	187.00	3.008	223.50	2.422	260.00	1.066	296.50	0.298	333.00	0.039	369.50	0.004	406.00	0.000		
5.00	0.636	41.50	29.522	78.00	40.409	114.50	21.863	151.00	3.581	187.50	2.999	224.00	2.415	260.50	1.047	297.00	0.290	333.50	0.038	370.00	0.004	406.50	0.000		
5.50	0.743	42.00	30.242	78.50	39.718	115.00	21.711	151.50	3.578	188.00	2.990	224.50	2.408	261.00	1.028	297.50	0.283	334.00	0.037	370.50	0.004	407.00	0.000		
6.00	0.863	42.50	30.965	79.00	39.033	115.50	21.560	152.00	3.574	188.50	2.982	225.00	2.400	261.50	1.010	298.00	0.276	334.50	0.036	371.00	0.004	407.50	0.000		
6.50	1.165	43.00	31.688	79.50	38.352	116.00	21.411	152.50	3.569	189.00	2.973	225.50	2.393	262.00	0.992	298.50	0.270	335.00	0.035	371.50	0.004	408.00	0.000		
7.00	1.542	43.50	32.408	80.00	37.677	116.50	21.263	153.00	3.563	189.50	2.964	226.00	2.385	262.50	0.974	299.00	0.263	335.50	0.034	372.00	0.004	408.50	0.000		
7.50	1.895	44.00	33.122	80.50	37.007	117.00	21.116	153.50	3.558	190.00	2.955	226.50	2.377	263.00	0.957	299.50	0.257	336.00	0.033	372.50	0.004	409.00	0.000		
8.00	2.227	44.50	33.829	81.00	36.342	117.50	20.970	154.00	3.553	190.50	2.946	227.00	2.369	263.50	0.940	300.00	0.250	336.50	0.032	373.00	0.003	409.50	0.000		
8.50	2.543	45.00	35.215	81.50	35.683	118.00	20.826	154.50	3.549	191.00	2.937	227.50	2.362	264.00	0.923	300.50	0.244	337.00	0.031	373.50	0.003	410.00	0.000		
9.00	2.843	45.50	37.197	82.00	35.029	118.50	20.682	155.00	3.544	191.50	2.928	228.00	2.354	264.50	0.906	301.00	0.238	337.50	0.030	374.00	0.003	410.50	0.000		
9.50	3.165	46.00	39.107	82.50	34.381	119.00	20.540	155.50	3.538	192.00	2.919	228.50	2.346	265.00	0.900	301.50	0.232	338.00	0.029	374.50	0.003	411.00	0.000		
10.00	3.475	46.50	40.939	83.00	34.020	119.50	20.399	156.00	3.532	192.50	2.911	229.00	2.338	265.50	0.894	302.00	0.226	338.50	0.028	375.00	0.003	411.50	0.000		
10.50	3.764	47.00	42.690	83.50	33.800	120.00	18.796	156.50	3.525	193.00	2.903	229.50	2.330	266.00	0.887	302.50	0.220	339.00	0.027	375.50	0.003	412.00	0.000		
11.00	4.030	47.50	44.359	84.00	33.579	120.50	14.553	157.00	3.519	193.50	2.895	230.00	2.322	266.50	0.880	303.00	0.215	339.50	0.027	376.00	0.003	412.50	0.000		
11.50	4.274	48.00	45.942	84.50	33.357	121.00	11.507	157.50	3.513	194.00	2.887	230.50	2.314	267.00	0.872	303.50	0.209	340.00	0.026	376.50	0.003	413.00	0.000		
12.00	4.497	48.50	47.440	85.00	33.136	121.50	9.418	158.00	3.507	194.50	2.879	231.00	2.306	267.50	0.864	304.00	0.204	340.50	0.025	377.00	0.003	413.50	0.000		
12.50	4.702	49.00	48.852	85.50	32.914	122.00	8.190	158.50	3.500	195.00	2.871	231.50	2.298	268.00	0.855	304.50	0.198	341.00	0.024	377.50	0.003	414.00	0.000		
13.00	4.891	49.50	50.178	86.00	32.692	122.50	7.228	159.00	3.493	195.50	2.863	232.00	2.289	268.50	0.847	305.00	0.193	341.50	0.024	378.00	0.003	414.50	0.000		
13.50	5.065	50.00	51.418	86.50	32.470	123.00	6.474	159.50	3.486	196.00	2.855	232.50	2.280	269.00	0.837	305.50	0.188	342.00	0.023	378.50	0.002	415.00	0.000		
14.00	5.227	50.50	52.574	87.00	32.249	123.50	5.883	160.00	3.479	196.50	2.847	233.00	2.270	269.50	0.828	306.00	0.183	342.50	0.022	379.00	0.002	415.50	0.000		
14.50	5.378	51.00	53.647	87.50	32.028	124.00	5.420	160.50	3.472	197.00	2.838	233.50	2.259	270.00	0.818	306.50	0.179	343.00	0.021	379.50	0.002	416.00	0.000		
15.00	5.518	51.50	54.637	88.00	31.807	124.50	5.057	161.00	3.464	197.50	2.830	234.00	2.248	270.50	0.808	307.00	0.174	343.50	0.021	380.00	0.002	416.50	0.000		
15.50	5.650	52.00	55.547	88.50	31.588	125.00	4.771	161.50	3.457	198.00	2.822	234.50	2.235	271.00	0.798	307.50	0.169	344.00	0.020	380.50	0.002	417.00	0.000		
16.00	5.773	52.50	56.373	89.00	31.369	125.50	4.546	162.00	3.449	198.50	2.813	235.00	2.223	271.50	0.787	308.00	0.165	344.50	0.020	381.00	0.002	417.50	0.000		
16.50	5.888	53.00	57.117	89.50	31.151	126.00	4.369	162.50	3.442	199.00	2.805	235.50	2.209	272.00	0.777	308.50	0.160	345.00	0.019	381.50	0.002	418.00	0.000		
17.00	5.996	53.50	57.781	90.00	30.933	126.50	4.231	163.00	3.434	199.50	2.797	236.00	2.194	272.50	0.766	309.00	0.156	345.50	0.018	382.00	0.002	418.50	0.000		
17.50	6.098	54.00	58.368	90.50	30.717	127.00	4.121	163.50	3.426	200.00	2.788	236.50	2.177	273.00	0.755	309.50	0.152	346.00	0.018	382.50	0.002	419.00	0.000		
18.00	6.194	54.50	58.880	91.00	30.502	127.50	4.035	164.00	3.418	200.50	2.780	237.00	2.158	273.50	0.745	310.00	0.148	346.50	0.017	383.00	0.002	419.50	0.000		
18.50	6.286	55.00	59.319	91.50	30.288	128.00	3.967	164.50	3.410	201.00	2.772	237.50	2.138	274.00	0.734	310.50	0.144	347.00	0.017	383.50	0.002	420.00	0.000		
19.00	6.377	55.50	59.687	92.00	30.075	128.50	3.914	165.00	3.402	201.50	2.764	238.00	2.117	274.50	0.723	311.00	0.140	347.50	0.016	384.00	0.002	420.50	0.000		
19.50	6.466	56.00	59.987	92.50	29.863	129.00	3.871	165.50	3.393	202.00	2.755	238.50	2.095	275.00	0.712	311.50	0.136	348.00	0.016	384.50	0.002	421.00	0.000		
20.00	6.557	56.50	60.222	93.00	29.652	129.50	3.837	166.00	3.385	202.50	2.747	239.00	2.071	275.50	0.701	312.00	0.132	348.50	0.015	385.00	0.002	421.50	0.000		
20.50	6.648	57.00	60.396	93.50	29.443	130.00	3.810	166.50	3.376	203.00	2.739	239.50	2.046	276.00	0.690	312.50	0.129	349.00	0.015	385.50	0.002	422.00	0.000		
21.00	6.739	57.50	60.512	94.00	29.235	130.50	3.788	167.00	3.368	203.50	2.731	240.00	2.020	276.50	0.679	313.00	0.125	349.50	0.014	386.00	0.002	422.50	0.000		
21.50	6.833	58.00	60.577	94.50	29.028	131.00	3.770	167.50	3.359	204.00	2.722	240.50	1.992	277.00	0.668	313.50	0.122	350.00	0.014	386.50	0.001	423.00	0.000		
22.00	6.930	58.50	60.593	95.00	28.822	131.50	3.754	168.00	3.351	204.50	2.714	241.00	1.965	277.50	0.657	314.00	0.118	350.50	0.014	387.00	0.001	423.50	0.000		
22.50	7.032	59.00	60.562	95.50	28.617	132.00	3.741	168.50	3.342	205.00	2.706	241.50	1.937	278.00	0.646	314.50	0.115	351.00	0.013	387.50	0.001	424.00	0.000		
23.00	7.138	59.50	60.484	96.00	28.414	132.50	3.730	169.00	3.334	205.50	2.698	242.00	1.909	278.50	0.635	315.00	0.112	351.50	0.013	388.00	0.001	424.50	0.000		
23.50	7.253	60.00	60.361	96.50	28.213	133.00	3.721	169.50	3.325	206.00	2.690	242.50	1.881	279.00	0.624	315.50	0.109	352.00	0.012	388.50	0.001	425.00	0.000		
24.00	7.377	60.50	60.194	97.00	28.012	133.50	3.714	170.00	3.316	206.50	2.682	243.00	1.853	279.50	0.613	316.00	0.106	352.50	0.012	389.00	0.001	425.50	0.000		
24.50	7.515	61.00	59.987	97.50	27.813	134.00	3.707	170.50	3.307	207.00	2.674	243.50	1.826	280.00	0.603	316.50	0.103	353.00	0.012	389.50	0.001	426.00	0.000		
25.00	7.671	61.50	59.740	98.00	27.615	134.50	3.702	171.00	3.299	207.50	2.666	244.00	1.798	280.50	0.592	317.00	0.100	353.50	0.011	390.00	0.001	426.50	0.000		
25.50	7.848	62.00	59.456	98.50	27.419	135.00	3.697	171.50	3.290	208.00	2.658	244.50	1.771	281.00	0.581	317.50	0.097	354.00	0.011	390.50	0.001	427.00	0.000		
26.00	8.051	62.50	59.137	99.00	27.224	135.50	3.693	172.00	3.281	208.50	2.650	245.00	1.745	281.50	0.570	318.00	0.095	354.50	0.011	391.00	0.001	427.50	0.000		
26.50	8.286	63.00	58.788	99.50	27.031	136.00	3.689	172.50	3.272	209.00	2.642	245.50	1.718	282.00	0.560	318.50	0.092	355.00	0.010	391.50	0.001	428.00	0.000		
27.00	8.554	63.50	58.409	100.00	26.839	136.50	3.685	173.00	3.263	209.50	2.634	246.00	1.692	282.50	0.549	319.00	0.089	355.50	0.010	392.00	0.001	428.50	0.000		
27.50	8.880	64.00	58.002	100.50	26.648	137.00	3.680	173.50	3.254	210.00	2.626	246.50	1.666	283.00	0.539	319.50	0.087	356.00	0.010	392.50	0.001	429.00	0.000		
28.00	9.276	64.50	57.568	101.00	26.459	137.50	3.675	174.00	3.245	210.50	2.619	247.00	1.641	283.50	0.528	320.00	0.084	356.50	0.009	393.00	0.001	429.50	0.000		
28.50	9.832	65.00	57.108	101.50	26.271	138.00	3.671	174.50	3.236	211.00	2.611	247.50	1.615	284.00	0.518	320.50	0.082	357.00	0.009	393.50	0.001	430.00	0.000		
29.00	10.910	65.50	56.621	102.00	26.084	138.50	3.667	175.00	3.227	211.50	2.603	248.00	1.590	284.50	0.508	321.00	0.080	357.50	0.009	394.00	0.001	430.50	0.000		
29.50	12.423	66.00	56.110	102.50	25.899	139.00	3.663	175.50	3.217	212.00	2.595	248.50	1.565	285.00	0.498	321.50	0.077	358.00	0.009	394.50	0.001	431.00	0.000		
30.00	14.348	66.50	55.575	103.00	25.715	139.50	3.660	176.00	3.208	212.50	2.588	249.00	1.541	285.50	0.488	322.00	0.075	358.50	0.008	395.00	0.001	431.50	0.000		
30.50	16.613	67.00	55.020	103.50	25.533	140.00	3.657	176.50	3.199	213.00	2.580	249.50	1.517	286.00	0.478	322.50	0.073	359.00	0.008	395.50	0.001	432.00	0.000		
31.00	19.154	67.50	54.450	104.00	25.352	140.50	3.654	177.00	3.190	213.50	2.572	250.00	1.493	286.50	0.468	323.00	0.071	359.50	0.008	396.00	0.001	432.50	0.000		
31.50	20.354	68.00	53.867	104.50	25.172	141.00	3.651	177.50	3.181	214.00	2.564	250.50	1.469	287.00	0.458	323.50	0.069	360.00	0.008	396.50	0.001	433.00	0.000		
32.00	20.463	68.50	53.273	105.00	24.994	141.50	3.648	178.00	3.172	214.50	2.557	251.00	1.446	287.50	0.449	324.00	0.067	360.50	0.007	397.00	0.001	433.50	0.000		
32.50	20.611	69.00	52.666	105.50	24.817	142.00	3.644	178.50	3.163	215.00	2.549	251.50	1.423	288.00	0.439	324.50	0.065	361.00	0.007	397.50	0.001	434.00	0.000		
33.00	20.798	69.50	52.046	106.00	24.642	142.50	3.641	179.00	3.154	215.50	2.541	252.00	1.400	288.50	0.430	325.00	0.063	361.50	0.007	398.00	0.001	434.50	0.000		
33.50	21.024	70.00	51.415	106.50	24.468	143.00	3.636	179.50	3.144	216.00	2.534	252.50	1.377	289.00	0.421	325.50	0.061	362.00	0.007	398.50	0.001	435.00	0.000		
34.00	21.288	70.50	50.772	107.00	24.295	143.50	3.633	180.00	3.135	216.50	2.526	253.00	1.355	289.50	0.412	326.00	0.059	362.50	0.006	399.00	0.001	435.50	0.000		
34.50	21.590	71.00	50.118	107.50	24.123	144.00	3.629	180.50	3.126	217.00	2.519	253.50	1.332	290.00	0.403	326.50	0.058	363.00	0.006	399.50	0.001	436.00	0.000		
35.00	21.928	71.50	49.455	108.00	23.953	144.50	3.626	181.00	3.117	217.50	2.511	254.00	1.310	290.50	0.394	327.00	0.056	363.50	0.006	400.00	0.001	436.50	0.000		
35.50	22.304	72.00	48.783	108.50	23.785	145.00	3.622	181.50	3.108	218.00	2.504	254.50	1.289	291.00	0.385	327.50	0.054	364.00	0.006	400.50	0.001	437.00	0.000		
36.00	22.722	72.50	48.104	109.00	23.617	145.50	3.619	182.00	3.099	218.50	2.496	255.00	1.267	291.50	0.376	328.00	0.053	364.50	0.006	401.00	0.001	437.50	0.000		

N7 (JR SUMMER)



Hydrograph Statistics:

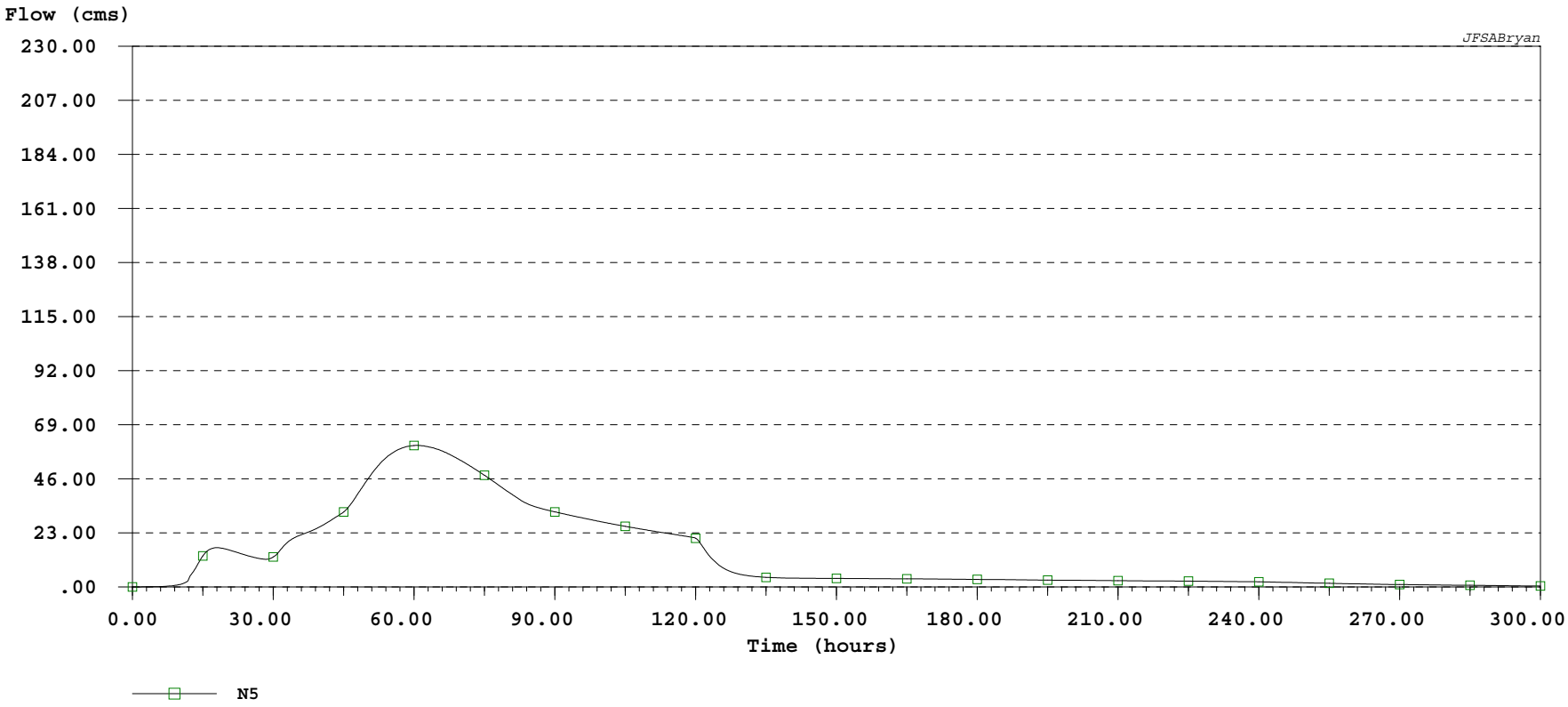
Legend	Filename & Comment	Time Step (min)	Drainage Area (ha)	Peak Flow (cms)	Time to Peak (hrs)	Runoff Volume (mm)	Runoff Volume (cu.m)	Duration of flow (hrs)	Average flow (cms)
——○——	H-N7.100 : N7	30.00	35546.00	108.761	44.500	36.63	1.302E+07	300.000	12.056

Hydrograph Table:

Hydrograph Filename : Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\JRSUMM~1\H-N7.100
Comment in file : N7

# TIME hrs	FLOW # cms	TIME hrs	FLOW # cms	TIME hrs	FLOW # cms	TIME hrs	FLOW # cms	TIME hrs	FLOW # cms	TIME hrs	FLOW # cms	TIME hrs	FLOW # cms	TIME hrs	FLOW # cms	TIME hrs	FLOW # cms	TIME hrs	FLOW # cms	TIME hrs	FLOW # cms	TIME hrs	FLOW # cms	TIME hrs	FLOW # cms
0.00	0.000	36.50	64.233	73.00	19.725	109.50	3.885	146.00	3.605	182.50	3.053	219.00	2.453	255.50	1.145	292.00	0.244	328.50	0.029	365.00	0.003	401.50	0.000
0.50	0.029	37.00	69.645	73.50	18.832	110.00	3.879	146.50	3.602	183.00	3.043	219.50	2.445	256.00	1.125	292.50	0.238	329.00	0.028	365.50	0.003	402.00	0.000
1.00	0.098	37.50	74.878	74.00	17.855	110.50	3.873	147.00	3.599	183.50	3.033	220.00	2.438	256.50	1.105	293.00	0.231	329.50	0.027	366.00	0.003	402.50	0.000
1.50	0.182	38.00	79.809	74.50	16.952	111.00	3.864	147.50	3.593	184.00	3.025	220.50	2.431	257.00	1.086	293.50	0.225	330.00	0.026	366.50	0.003	403.00	0.000
2.00	0.285	38.50	84.394	75.00	16.208	111.50	3.855	148.00	3.587	184.50	3.017	221.00	2.423	257.50	1.066	294.00	0.219	330.50	0.026	367.00	0.003	403.50	0.000
2.50	0.408	39.00	88.740	75.50	15.512	112.00	3.851	148.50	3.583	185.00	3.007	221.50	2.416	258.00	1.048	294.50	0.213	331.00	0.025	367.50	0.003	404.00	0.000
3.00	0.545	39.50	92.801	76.00	14.881	112.50	3.846	149.00	3.580	185.50	2.997	222.00	2.409	258.50	1.029	295.00	0.208	331.50	0.024	368.00	0.003	404.50	0.000
3.50	0.699	40.00	96.165	76.50	14.275	113.00	3.841	149.50	3.577	186.00	2.989	222.50	2.402	259.00	1.011	295.50	0.202	332.00	0.023	368.50	0.002	405.00	0.000
4.00	0.887	40.50	98.856	77.00	13.692	113.50	3.835	150.00	3.574	186.50	2.981	223.00	2.395	259.50	0.993	296.00	0.196	332.50	0.023	369.00	0.002	405.50	0.000
4.50	1.114	41.00	101.242	77.50	13.127	114.00	3.829	150.50	3.570	187.00	2.971	223.50	2.387	260.00	0.975	296.50	0.191	333.00	0.022	369.50	0.002	406.00	0.000
5.00	1.373	41.50	103.267	78.00	12.581	114.50	3.821	151.00	3.567	187.50	2.962	224.00	2.380	260.50	0.957	297.00	0.186	333.50	0.021	370.00	0.002	406.50	0.000
5.50	1.663	42.00	104.949	78.50	12.078	115.00	3.814	151.50	3.562	188.00	2.954	224.50	2.373	261.00	0.940	297.50	0.181	334.00	0.021	370.50	0.002	407.00	0.000
6.00	1.989	42.50	106.307	79.00	11.588	115.50	3.811	152.00	3.555	188.50	2.946	225.00	2.364	261.50	0.923	298.00	0.176	334.50	0.020	371.00	0.002	407.50	0.000
6.50	2.296	43.00	107.412	79.50	11.105	116.00	3.807	152.50	3.547	189.00	2.936	225.50	2.356	262.00	0.906	298.50	0.171	335.00	0.019	371.50	0.002	408.00	0.000
7.00	2.550	43.50	108.149	80.00	10.647	116.50	3.804	153.00	3.542	189.50	2.926	226.00	2.348	262.50	0.890	299.00	0.166	335.50	0.019	372.00	0.002	408.50	0.000
7.50	2.797	44.00	108.566	80.50	10.195	117.00	3.801	153.50	3.538	190.00	2.919	226.50	2.340	263.00	0.874	299.50	0.162	336.00	0.018	372.50	0.002	409.00	0.000
8.00	3.041	44.50	108.761	81.00	9.763	117.50	3.798	154.00	3.534	190.50	2.911	227.00	2.332	263.50	0.858	300.00	0.157	336.50	0.018	373.00	0.002	409.50	0.000
8.50	3.282	45.00	108.650	81.50	9.317	118.00	3.794	154.50	3.529	191.00	2.901	227.50	2.324	264.00	0.842	300.50	0.153	337.00	0.017	373.50	0.002	410.00	0.000
9.00	3.518	45.50	108.265	82.00	8.852	118.50	3.791	155.00	3.523	191.50	2.891	228.00	2.316	264.50	0.828	301.00	0.149	337.50	0.017	374.00	0.002	410.50	0.000
9.50	3.748	46.00	107.625	82.50	8.419	119.00	3.783	155.50	3.514	192.00	2.884	228.50	2.308	265.00	0.813	301.50	0.144	338.00	0.016	374.50	0.002	411.00	0.000
10.00	3.971	46.50	106.771	83.00	8.036	119.50	3.775	156.00	3.505	192.50	2.876	229.00	2.300	265.50	0.799	302.00	0.140	338.50	0.016	375.00	0.002	411.50	0.000
10.50	4.171	47.00	105.676	83.50	7.695	120.00	3.772	156.50	3.500	193.00	2.866	229.50	2.292	266.00	0.784	302.50	0.136	339.00	0.015	375.50	0.002	412.00	0.000
11.00	4.343	47.50	104.374	84.00	7.391	120.50	3.770	157.00	3.495	193.50	2.857	230.00	2.284	266.50	0.770	303.00	0.133	339.50	0.015	376.00	0.002	412.50	0.000
11.50	4.498	48.00	102.942	84.50	7.118	121.00	3.767	157.50	3.488	194.00	2.849	230.50	2.276	267.00	0.756	303.50	0.129	340.00	0.014	376.50	0.002	413.00	0.000
12.00	4.643	48.50	101.374	85.00	6.873	121.50	3.764	158.00	3.479	194.50	2.841	231.00	2.267	267.50	0.741	304.00	0.125	340.50	0.014	377.00	0.001	413.50	0.000
12.50	4.779	49.00	99.690	85.50	6.650	122.00	3.762	158.50	3.470	195.00	2.832	231.50	2.256	268.00	0.727	304.50	0.122	341.00	0.013	377.50	0.001	414.00	0.000
13.00	4.907	49.50	97.915	86.00	6.446	122.50	3.759	159.00	3.464	195.50	2.823	232.00	2.246	268.50	0.713	305.00	0.118	341.50	0.013	378.00	0.001	414.50	0.000
13.50	5.028	50.00	96.069	86.50	6.253	123.00	3.757	159.50	3.458	196.00	2.815	232.50	2.234	269.00	0.700	305.50	0.115	342.00	0.013	378.50	0.001	415.00	0.000
14.00	5.142	50.50	94.146	87.00	6.075	123.50	3.754	160.00	3.451	196.50	2.808	233.00	2.220	269.50	0.686	306.00	0.112	342.50	0.012	379.00	0.001	415.50	0.000
14.50	5.250	51.00	92.168	87.50	5.914	124.00	3.751	160.50	3.441	197.00	2.798	233.50	2.206	270.00	0.672	306.50	0.108	343.00	0.012	379.50	0.001	416.00	0.000
15.00	5.352	51.50	90.164	88.00	5.768	124.50	3.744	161.00	3.432	197.50	2.789	234.00	2.191	270.50	0.659	307.00	0.105	343.50	0.011	380.00	0.001	416.50	0.000
15.50	5.448	52.00	88.012	88.50	5.635	125.00	3.738	161.50	3.426	198.00	2.782	234.50	2.175	271.00	0.646	307.50	0.102	344.00	0.011	380.50	0.001	417.00	0.000
16.00	5.540	52.50	85.717	89.00	5.515	125.50	3.734	162.00	3.419	198.50	2.774	235.00	2.159	271.50	0.632	308.00	0.099	344.50	0.011	381.00	0.001	417.50	0.000
16.50	5.626	53.00	83.404	89.50	5.403	126.00	3.731	162.50	3.411	199.00	2.765	235.50	2.140	272.00	0.620	308.50	0.096	345.00	0.010	381.50	0.001	418.00	0.000
17.00	5.707	53.50	81.084	90.00	5.296	126.50	3.729	163.00	3.401	199.50	2.756	236.00	2.116	272.50	0.608	309.00	0.094	345.50	0.010	382.00	0.001	418.50	0.000
17.50	5.785	54.00	78.776	90.50	5.197	127.00	3.726	163.50	3.392	200.00	2.749	236.50	2.091	273.00	0.596	309.50	0.091	346.00	0.010	382.50	0.001	419.00	0.000
18.00	5.859	54.50	76.488	91.00	5.105	127.50	3.724	164.00	3.385	200.50	2.741	237.00	2.065	273.50	0.585	310.00	0.088	346.50	0.010	383.00	0.001	419.50	0.000
18.50	5.934	55.00	74.193	91.50	5.019	128.00	3.722	164.50	3.377	201.00	2.732	237.50	2.039	274.00	0.574	310.50	0.086	347.00	0.009	383.50	0.001	420.00	0.000
19.00	6.013	55.50	71.883	92.00	4.938	128.50	3.719	165.00	3.367	201.50	2.723	238.00	2.014	274.50	0.562	311.00	0.083	347.50	0.009	384.00	0.001	420.50	0.000
19.50	6.094	56.00	69.628	92.50	4.861	129.00	3.717	165.50	3.358	202.00	2.716	238.50	1.985	275.00	0.551	311.50	0.081	348.00	0.009	384.50	0.001	421.00	0.000
20.00	6.178	56.50	67.446	93.00	4.790	129.50	3.714	166.00	3.351	202.50	2.708	239.00	1.953	275.50	0.540	312.00	0.078	348.50	0.008	385.00	0.001	421.50	0.000
20.50	6.261	57.00	65.287	93.50	4.726	130.00	3.712	166.50	3.343	203.00	2.699	239.50	1.922	276.00	0.528	312.50	0.076	349.00	0.008	385.50	0.001	422.00	0.000
21.00	6.347	57.50	63.308	94.00	4.665	130.50	3.706	167.00	3.333	203.50	2.691	240.00	1.890	276.50	0.517	313.00	0.074	349.50	0.008	386.00	0.001	422.50	0.000
21.50	6.439	58.00	61.487	94.50	4.609	131.00	3.699	167.50	3.323	204.00	2.684	240.50	1.860	277.00	0.506	313.50	0.072	350.00	0.008	386.50	0.001	423.00	0.000
22.00	6.538	58.50	59.645	95.00	4.556	131.50	3.695	168.00	3.316	204.50	2.676	241.00	1.831	277.50	0.496	314.00	0.070	350.50	0.007	387.00	0.001	423.50	0.000
22.50	6.643	59.00	57.784	95.50	4.507	132.00	3.693	168.50	3.308	205.00	2.667	241.50	1.803	278.00	0.485	314.50	0.068	351.00	0.007	387.50	0.001	424.00	0.000
23.00	6.755	59.50	55.919	96.00	4.461	132.50	3.690	169.00	3.298	205.50	2.659	242.00	1.775	278.50	0.474	315.00	0.066	351.50	0.007	388.00	0.001	424.50	0.000
23.50	6.882	60.00	54.071	96.50	4.420	133.00	3.688	169.50	3.288	206.00	2.652	242.50	1.747	279.00	0.464	315.50	0.064	352.00	0.007	388.50	0.001	425.00	0.000
24.00	7.027	60.50	52.261	97.00	4.381	133.50	3.686	170.00	3.280	206.50	2.644	243.00	1.721	279.50	0.454	316.00	0.062	352.50	0.007	389.00	0.001	425.50	0.000
24.50	7.195	61.00	50.490	97.50	4.344	134.00	3.683	170.50	3.272	207.00	2.636	243.50	1.694	280.00	0.443	316.50	0.060	353.00	0.006	389.50	0.001	426.00	0.000
25.00	7.392	61.50	48.746	98.00	4.310	134.50	3.681	171.00	3.262	207.50	2.627	244.00	1.668	280.50	0.433	317.00	0.058	353.50	0.006	390.00	0.001	426.50	0.000
25.50	7.619	62.00	47.015	98.50	4.277	135.00	3.678	171.50	3.252	208.00	2.620	244.50	1.642	281.00	0.423	317.50	0.057	354.00	0.006	390.50	0.001	427.00	0.000
26.00	7.877	62.50	45.413	99.00	4.246	135.50	3.676	172.00	3.244	208.50	2.613	245.00	1.617	281.50	0.414	318.00	0.055	354.50	0.006	391.00	0.001	427.50	0.000
26.50	8.177	63.00	43.919	99.50	4.218	136.00	3.673	172.50	3.236	209.00	2.604	245.50	1.592	282.00	0.404	318.50	0.053	355.00	0.006	391.50	0.001	428.00	0.000
27.00	8.456	63.50	42.425	100.00	4.191	136.50	3.667	173.00	3.226	209.50	2.596	246.00	1.567	282.50	0.395	319.00	0.052	355.50	0.005	392.00	0.001	428.50	0.000
27.50	8.667	64.00	40.935	100.50	4.164	137.00	3.660	173.50	3.216	210.00	2.589	246.50	1.543	283.00	0.385	319.50	0.050	356.00	0.005	392.50	0.001	429.00	0.000
28.00	8.925	64.50	39.422	101.00	4.138	137.50	3.656	174.00	3.208	210.50	2.582	247.00	1.518	283.50	0.376	320.00	0.049	356.50	0.005	393.00	0.001	429.50	0.000
28.50	9.619	65.00	37.920	101.50	4.114	138.00	3.653	174.50	3.200	211.00	2.573	247.50	1.494	284.00	0.367	320.50	0.047	357.00	0.005	393.50	0.001	430.00	0.000
29.00	10.902	65.50	36.454	102.00	4.092	138.50	3.651	175.00	3.189	211.50	2.565	248.00	1.471	284.50	0.358	321.00	0.046	357.50	0.005	394.00	0.001	430.50	0.000
29.50	12.457	66.00	35.009	102.50	4.072	139.00	3.649	175.50	3.179	212.00	2.558	248.50	1.447	285.00	0.349	321.50	0.044	358.00	0.005	394.50	0.001	431.00	0.000
30.00	14.127	66.50	33.563	103.00	4.054	139.50	3.646	176.00	3.171	212.50	2.551	249.00	1.424	285.50	0.341	322.00	0.043	358.50	0.005	395.00	0.001	431.50	0.000
30.50	15.881	67.00	32.277	103.50	4.035	140.00	3.644	176.50	3.163	213.00	2.543	249.50	1.401	286.00	0.333	322.50	0.042	359.00	0.004	395.50	0.000	432.00	0.000
31.00	17.796	67.50	31.211	104.00	4.018	140.50	3.641	177.00	3.152	213.50	2.534	250.00	1.379	286.50	0.324	323.00	0.041	359.50	0.004	396.00	0.000	432.50	0.000
31.50	20.321	68.00	30.182	104.50	4.004	141.00	3.639	177.50	3.142	214.00	2.528	250.50	1.356	287.00	0.316	323.50	0.039	360.00	0.004	396.50	0.000	433.00	0.000
32.00	23.664	68.50	29.100	105.00	3.989	141.50	3.636	178.00	3.135	214.50	2.521	251.00	1.334	287.50	0.308	324.00	0.038	360.50	0.004	397.00	0.000	433.50	0.000
32.50	27.472	69.00	27.989	105.50	3.975	142.00	3.630	178.50	3.126	215.00	2.512	251.50	1.312	288.00	0.301	324.50	0.037	361.00	0.004	397.50	0.000	434.00	0.000
33.00	31.441	69.50	26.878	106.00	3.962	142.50	3.623	179.00	3.116	215.50	2.504	252.00	1.290	288.50	0.293	325.00	0.036	361.50	0.004	398.00	0.000	434.50	0.000
33.50	35.530	70.00	25.777	106.50	3.947	143.00	3.620	179.50	3.106	216.00	2.497	252.50	1.269	289.00	0.286	325.50	0.035	362.00	0.004	398.50	0.000	435.00	0.000
34.00	39.723	70.50	24.694	107.00	3.934	143.50	3.617	180.00	3.098	216.50	2.490	253.00	1.247	289.50	0.278	326.00	0.034	362.50	0.004	399.00	0.000	435.50	0.000
34.50	43.935	71.00	23.637	107.50	3.926	144.00	3.615	180.50	3.090	217.00	2.482	253.50	1.226	290.00	0.271	326.50	0.033	363.00	0.003	399.50	0.000	436.00	0.000
35.00	48.260	71.50	22.611	108.00	3.917	144.50	3.612	181.00	3.079	217.50	2.474	254.00	1.206	290.50	0.264	327.00	0.032	363.50	0.003	400.00	0.000	436.50	0.000
35.50	53.188	72.00	21.616	108.50	3.905	145.00	3.610	181.50	3.070	218.00	2.468	254.50	1.185	291.00	0.257	327.50	0.031	364.00	0.003	400.50	0.000	437.00	0.000
36.00	58.698	72.50	20.654	109.00	3.893	145.50	3.607	182.00	3.062	218.50	2.461	255.00	1.165	291.50	0.250	328.00	0.030	364.50	0.003	401.00	0.000	437.50	0.000

N5 (JR SUMMER)



Hydrograph Statistics:

Legend	Filename & Comment	Time Step (min)	Drainage Area (ha)	Peak Flow (cms)	Time to Peak (hrs)	Runoff Volume (mm)	Runoff Volume (cu.m)	Duration of flow (hrs)	Average flow (cms)
	H-N5.100 : N5	10.00	40055.00	60.214	60.500	36.33	1.455E+07	300.000	13.474

Hydrograph Table:

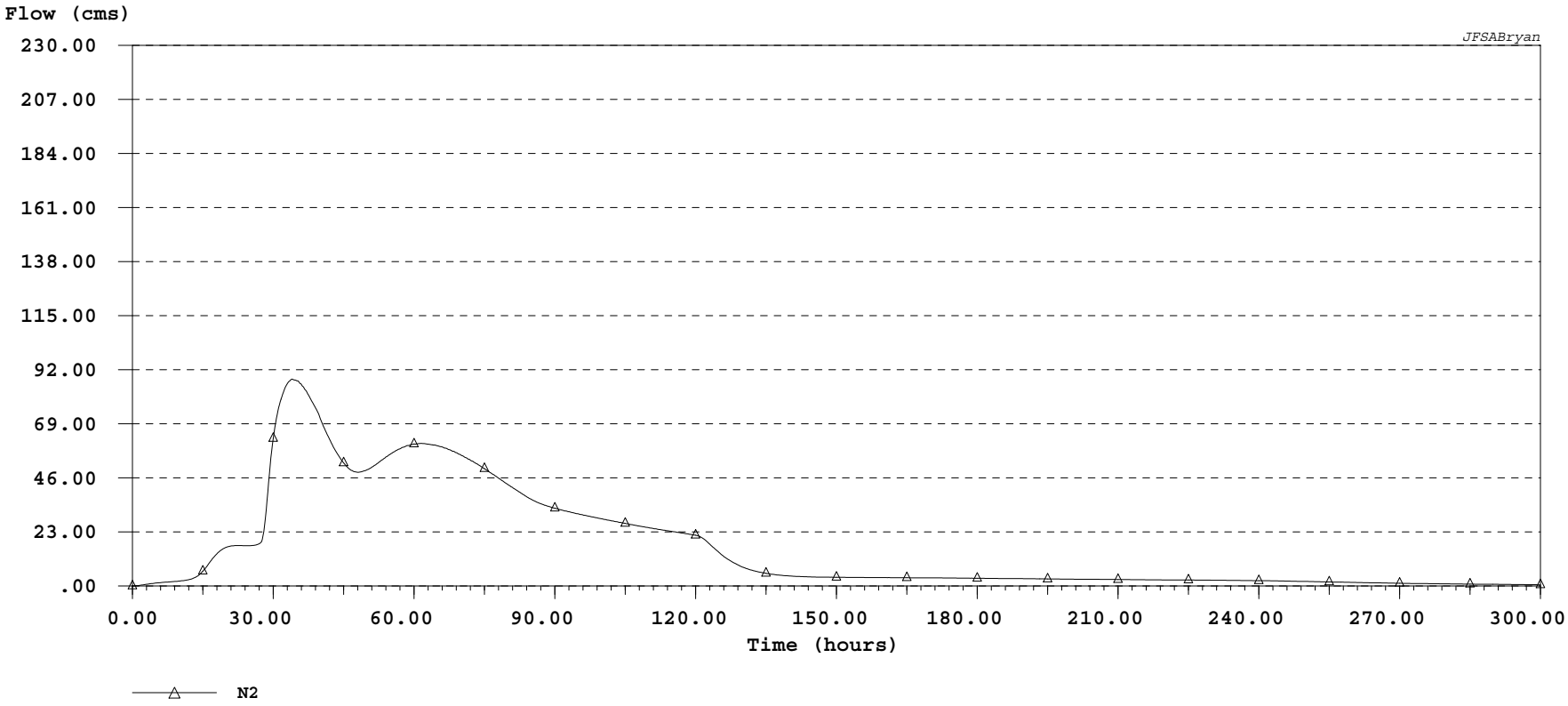
Hydrograph Filename : Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\JRSUMM~1\H-N5.100
Comment in file : N5

TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
0.00	0.000	21.83	14.977	43.67	30.125	65.50	58.203	87.33	33.251	109.17	24.342	131.00	4.833
0.17	0.000	22.00	14.872	43.83	30.327	65.67	58.059	87.50	33.150	109.33	24.296	131.17	4.785
0.33	0.001	22.17	14.769	44.00	30.532	65.83	57.959	87.67	33.052	109.50	24.248	131.33	4.740
0.50	0.003	22.33	14.666	44.17	30.740	66.00	57.853	87.83	32.979	109.67	24.186	131.50	4.696
0.67	0.005	22.50	14.566	44.33	30.951	66.17	57.693	88.00	32.906	109.83	24.125	131.67	4.653
0.83	0.006	22.67	14.462	44.50	31.165	66.33	57.532	88.17	32.810	110.00	24.065	131.83	4.613
1.00	0.008	22.83	14.353	44.67	31.390	66.50	57.372	88.33	32.718	110.17	24.018	132.00	4.574
1.17	0.011	23.00	14.245	44.83	31.632	66.67	57.264	88.50	32.648	110.33	23.971	132.17	4.537
1.33	0.014	23.17	14.140	45.00	31.877	66.83	57.138	88.67	32.578	110.50	23.910	132.33	4.501
1.50	0.017	23.33	14.037	45.17	32.155	67.00	56.946	88.83	32.486	110.67	23.850	132.50	4.467
1.67	0.020	23.50	13.936	45.33	32.463	67.17	56.754	89.00	32.397	110.83	23.790	132.67	4.434
1.83	0.023	23.67	13.837	45.50	32.784	67.33	56.613	89.17	32.310	111.00	23.745	132.83	4.402
2.00	0.027	23.83	13.738	45.67	33.130	67.50	56.468	89.33	32.250	111.17	23.698	133.00	4.372
2.17	0.031	24.00	13.635	45.83	33.487	67.67	56.266	89.50	32.188	111.33	23.638	133.17	4.343
2.33	0.035	24.17	13.531	46.00	33.878	67.83	56.065	89.67	32.100	111.50	23.578	133.33	4.315
2.50	0.039	24.33	13.428	46.17	34.285	68.00	55.934	89.83	32.014	111.67	23.520	133.50	4.288
2.67	0.043	24.50	13.328	46.33	34.709	68.17	55.794	90.00	31.930	111.83	23.474	133.67	4.263
2.83	0.048	24.67	13.233	46.50	35.145	68.33	55.581	90.17	31.870	112.00	23.428	133.83	4.238
3.00	0.053	24.83	13.140	46.67	35.595	68.50	55.373	90.33	31.809	112.17	23.369	134.00	4.215
3.17	0.058	25.00	13.050	46.83	36.059	68.67	55.232	90.50	31.723	112.33	23.310	134.17	4.192
3.33	0.063	25.17	12.961	47.00	36.532	68.83	55.083	90.67	31.640	112.50	23.252	134.33	4.171
3.50	0.068	25.33	12.875	47.17	37.015	69.00	54.863	90.83	31.558	112.67	23.207	134.50	4.150
3.67	0.074	25.50	12.791	47.33	37.509	69.17	54.646	91.00	31.499	112.83	23.162	134.67	4.130
3.83	0.080	25.67	12.709	47.50	38.010	69.33	54.502	91.17	31.436	113.00	23.103	134.83	4.111
4.00	0.086	25.83	12.628	47.67	38.518	69.50	54.351	91.33	31.346	113.17	23.045	135.00	4.093
4.17	0.092	26.00	12.547	47.83	39.031	69.67	54.124	91.50	31.257	113.33	22.988	135.17	4.075
4.33	0.099	26.17	12.467	48.00	39.549	69.83	53.900	91.67	31.171	113.50	22.944	135.33	4.058
4.50	0.106	26.33	12.389	48.17	40.067	70.00	53.750	91.83	31.110	113.67	22.899	135.50	4.042
4.67	0.114	26.50	12.314	48.33	40.571	70.17	53.592	92.00	31.048	113.83	22.841	135.67	4.026
4.83	0.122	26.67	12.244	48.50	41.057	70.33	53.358	92.17	30.962	114.00	22.784	135.83	4.011
5.00	0.130	26.83	12.177	48.67	41.541	70.50	53.179	92.33	30.878	114.17	22.728	136.00	3.997
5.17	0.139	27.00	12.111	48.83	42.026	70.67	52.996	92.50	30.796	114.33	22.684	136.17	3.983
5.33	0.148	27.17	12.052	49.00	42.516	70.83	52.760	92.67	30.735	114.50	22.639	136.33	3.970
5.50	0.157	27.33	11.995	49.17	43.004	71.00	52.583	92.83	30.674	114.67	22.582	136.50	3.957
5.67	0.167	27.50	11.940	49.33	43.490	71.17	52.401	93.00	30.591	114.83	22.526	136.67	3.945
5.83	0.177	27.67	11.892	49.50	43.978	71.33	52.160	93.17	30.510	115.00	22.470	136.83	3.933
6.00	0.188	27.83	11.850	49.67	44.462	71.50	51.979	93.33	30.431	115.17	22.427	137.00	3.922
6.17	0.199	28.00	11.810	49.83	44.941	71.67	51.794	93.50	30.372	115.33	22.383	137.17	3.911
6.33	0.212	28.17	11.782	50.00	45.420	71.83	51.550	93.67	30.313	115.50	22.326	137.33	3.901
6.50	0.225	28.33	11.769	50.17	45.895	72.00	51.366	93.83	30.232	115.67	22.270	137.50	3.891
6.67	0.239	28.50	11.764	50.33	46.364	72.17	51.177	94.00	30.153	115.83	22.215	137.67	3.881
6.83	0.254	28.67	11.781	50.50	46.831	72.33	50.931	94.17	30.076	116.00	22.171	137.83	3.871
7.00	0.271	28.83	11.822	50.67	47.327	72.50	50.744	94.33	30.018	116.17	22.126	138.00	3.861
7.17	0.290	29.00	11.875	50.83	47.772	72.67	50.552	94.50	29.960	116.33	22.069	138.17	3.851
7.33	0.310	29.17	11.955	51.00	48.214	72.83	50.303	94.67	29.881	116.50	22.012	138.33	3.842
7.50	0.333	29.33	12.065	51.17	48.657	73.00	50.113	94.83	29.804	116.67	21.956	138.50	3.832
7.67	0.357	29.50	12.188	51.33	49.090	73.17	49.919	95.00	29.727	116.83	21.912	138.67	3.824
7.83	0.383	29.67	12.342	51.50	49.521	73.33	49.667	95.17	29.671	117.00	21.867	138.83	3.816
8.00	0.412	29.83	12.532	51.67	49.941	73.50	49.475	95.33	29.613	117.17	21.810	139.00	3.809
8.17	0.443	30.00	12.740	51.83	50.354	73.67	49.279	95.50	29.536	117.33	21.751	139.17	3.802
8.33	0.477	30.17	12.970	52.00	50.761	73.83	49.024	95.67	29.459	117.50	21.691	139.33	3.795
8.50	0.513	30.33	13.216	52.17	51.158	74.00	48.829	95.83	29.383	117.67	21.642	139.50	3.789
8.67	0.553	30.50	13.476	52.33	51.542	74.17	48.631	96.00	29.326	117.83	21.593	139.67	3.782
8.83	0.596	30.67	13.775	52.50	51.924	74.33	48.373	96.17	29.267	118.00	21.531	139.83	3.776
9.00	0.643	30.83	14.109	52.67	52.293	74.50	48.177	96.33	29.188	118.17	21.471	140.00	3.770
9.17	0.693	31.00	14.462	52.83	52.651	74.67	47.975	96.50	29.110	118.33	21.422	140.17	3.764
9.33	0.749	31.17	14.842	53.00	53.004	74.83	47.713	96.67	29.033	118.50	21.372	140.33	3.758
9.50	0.807	31.33	15.247	53.17	53.346	75.00	47.512	96.83	28.976	118.67	21.313	140.50	3.752
9.67	0.870	31.50	15.675	53.33	53.676	75.17	47.305	97.00	28.917	118.83	21.256	140.67	3.747
9.83	0.938	31.67	16.094	53.50	54.004	75.33	47.038	97.17	28.838	119.00	21.200	140.83	3.743
10.00	1.008	31.83	16.496	53.67	54.319	75.50	46.832	97.33	28.761	119.17	21.153	141.00	3.738
10.17	1.084	32.00	16.904	53.83	54.624	75.67	46.623	97.50	28.686	119.33	21.106	141.17	3.734
10.33	1.171	32.17	17.286	54.00	54.923	75.83	46.353	97.67	28.628	119.50	21.051	141.33	3.730
10.50	1.268	32.33	17.635	54.17	55.212	76.00	46.145	97.83	28.569	119.67	20.966	141.50	3.727
10.67	1.377	32.50	17.979	54.33	55.478	76.17	45.934	98.00	28.490	119.83	20.859	141.67	3.723
10.83	1.498	32.67	18.304	54.50	55.781	76.33	45.663	98.17	28.412	120.00	20.745	141.83	3.716
11.00	1.629	32.83	18.609	54.67	55.996	76.50	45.454	98.33	28.336	120.17	20.535	142.00	3.708
11.17	1.776	33.00	18.906	54.83	56.206	76.67	45.241	98.50	28.279	120.33	20.232	142.17	3.706
11.33	1.943	33.17	19.187	55.00	56.488	76.83	44.970	98.67	28.221	120.50	19.907	142.33	3.703
11.50	2.114	33.33	19.451	55.17	56.695	77.00	44.760	98.83	28.144	120.67	19.519	142.50	3.701
11.67	2.314	33.50	19.706	55.33	56.896	77.17	44.547	99.00	28.068	120.83	19.067	142.67	3.698
11.83	2.672	33.67	19.945	55.50	57.156	77.33	44.277	99.17	27.994	121.00	18.597	142.83	3.695
12.00	3.379	33.83	20.161	55.67	57.351	77.50	44.068	99.33	27.938	121.17	18.124	143.00	3.692
12.17	4.238	34.00	20.365	55.83	57.535	77.67	43.850	99.50	27.881	121.33	17.650	143.17	3.690
12.33	4.821	34.17	20.564	56.00	57.764	77.83	43.601	99.67	27.806	121.50	17.166	143.33	3.687
12.50	5.263	34.33	20.748	56.17	57.934	78.00	43.349	99.83	27.732	121.67	16.696	143.50	3.684
12.67	5.684	34.50	20.926	56.33	58.094	78.17	43.105	100.00	27.660	121.83	16.200	143.67	3.678
12.83	6.105	34.67	21.096	56.50	58.294	78.33	42.864	100.17	27.605	122.00	15.665	143.83	3.672
13.00	6.557	34.83	21.258	56.67	58.480	78.50	42.623	100.33	27.550	122.17	15.169	144.00	3.671
13.17	7.051	35.00	21.415	56.83	58.600	78.67	42.386	100.50	27.476	122.33	14.712	144.17	3.669
13.33	7.594	35.17	21.566	57.00	58.720	78.83	42.150	100.67	27.404	122.50	14.264	144.33	3.668
13.50	8.184	35.33	21.707	57.17	58.884	79.00	41.916	100.83	27.333	122.67	13.845	144.50	3.666
13.67	8.783	35.50	21.844	57.33	59.033	79.17	41.684	101.00	27.279	122.83	13.447	144.67	3.665
13.83	9.384	35.67	21.979	57.50	59.174	79.33	41.454	101.17	27.225	123.00	13.051	144.83	3.663
14.00	9.982	35.83	22.110	57.67	59.254	79.50	41.225	101.33	27.153	123.17	12.675	145.00	3.662
14.17	10.556	36.00	22.239	57.83	59.330	79.67	40.997	101.50	27.082	123.33	12.316	145.17	3.660
14.33	11.117	36.17	22.366	58.00	59.457	79.83	40.770	101.67	27.013	123.50	11.967	145.33	3.659
14.50	11.671	36.33	22.493	58.17	59.569	80.00	40.545	101.83	26.960	123.67	11.631	145.50	3.657
14.67	12.209	36.50	22.618	58.33	59.667	80.17	40.320	102.00	26.907	123.83	11.308	145.67	3.656
14.83	12.726	36.67	22.743	58.50	59.758	80.33	40.097	102.17	26.836	124.00	10.992	145.83	3.654
15.00	13.217	36.83	22.868	58.67	59.839	80.50	39.875	102.33	26.767	124.17	10.691	146.00	3.653
15.17	13.678	37.00	22.992	58.83	59.862	80.67	39.654	102.50	26.699	124.33	10.407	146.17	3.652
15.33	14.096	37.17	23.118	59.00	59.886	80.83	39.433	102.67	26.647	124.50	10.105	146.33	3.650
15.50	14.470	37.33	23.245	59.17	59.955	81.00	39.213	102.83	26.594	124.67	9.800	146.50	3.649
15.67	14.808	37.50	23.373	59.33	60.014	81.17	38.992	103.00	26.525	124.83	9.516	146.67	3.647
15.83	15.112	37.67	23.504	59.50	60.068	81.33	38.770	103.17	26.457	125.00	9.243	146.83	3.646
16.00	15.385	37.83	23.639	59.67	60.111	81.50	38.549	103.33	26.390	125.17	8.991	147.00	3.640
16.17	15.624	38.00	23.774	59.83	60.145	81.67	38.326	103.50	26.339	125.33	8.757	147.17	3.635
16.33	15.832	38.17	23.914	60.00	60.174	81.83	38.102	103.67	26.287	125.50	8.532	147.33	3.634
16.50	16.012	38.33	24.057	60.17	60.194	82.00	37.878	103.83	26.219	125.67	8.321	147.50	3.633
16.67	16.171	38.50	24.203	60.33	60.206	82.17	37.655	104.00	26.151	125.83	8.124	147.67	3.632
16.83	16.305	38.67	24.352	60.50	60.214	82.33	37.433	104.17	26.085	126.00	7.933	147.83	3.631
17.00	16.418	38.83	24.506	60.67	60.214	82.50	37.211	104.33	26.035	126.17	7.745	148.00	3.630
17.17	16.510	39.00	24.663	60.83	60.206	82.67	36.995	104.50	25.984	126.33	7.562	148.17	3.629
17.33	16.580	39.17	24.824	61.00	60.195	82.83	36.785	104.67	25.916	126.50	7.387	148.33	3.628
17.50	16.639	39.33	24.989	61.17	60.177	83.00	36.576	104.83	25.850	126.67	7.222	148.50	3.627
17.67	16.680	39.50	25.157	61.33	60.151	83.17	36.379	105.00	25.785	126.83	7.066	148.67	3.626
17.83	16.698	39.67	25.325	61.50	60.123	83.33	36.195	105.17	25.736	127.00	6.915	148.83	3.625
18.00	16.703	39.83	25.490	61.67	60.088	83.50	35.988	105.33	25.685	127.17	6.773	149.00	3.624
18.17	16.698	40.00	25.657	61.83	60.046	83.67	35.832	105.50	25.619	127.33	6.639	149.17	3.623
18.33	16.679	40.17	25.833	62.00	60.002	83.83	35.686	105.67	25.553	127.50	6.510	149.33	3.622
18.50	16.648	40.33	26.018	62.17	59.951	84.00	35.504	105.83	25.489	127.67	6.388	149.50	3.621
18.67	16.607	40.50	26.205	62.33	59.895	84.17	35.364	106.00	25.440	127.83	6.273	149.67	3.620
18.83	16.557	40.67	26.396	62.50	59.836	84.33	35.231	106.17	25.390	128.00	6.162	149.83	3.619
19.00	16.507	40.83	26.591	62.67	59.773	84.50	35.071	106.33	25.325	128.17	6.056	150.00	3.618
19.17	16.447	41.00	26.787	62.83	59.706	84.67	34.946	106.50	25.260	128.33	5.956	150.17	3.617
19.33	16.375	41.17	26.985	63.00	59.636	84.83	34.826	106.67	25.197	128.50	5.860	150.33	3.616
19.50	16.304	41.33	27.185	63.17	59.562	85.00	34.680	106.83	25.148	128.67	5.768	150.50	3.615
19.67	16.227	41.50	27.387	63.33	59.482	85.17	34.567	107.00	25.099	128.83	5.681	150.67	3.614
19.83	16.140	41.67	27.591	63.50	59.400	85.33	34.457	107.17	25.035	129.00	5.597	150.83	3.613
20.00	16.058	41.83	27.796	63.67	59.312	85.50	34.325	107.33	24.971	129.17	5.517	151.00	3.612
20.17	15.971	42.00	28.002	63.83	59.274	85.67	34.199	107.50	24.909	129.33	5.441	151.17	3.610
20.33	15.878	42.17	28.211	64.00	59.225	85.83	34.109	107.67	24.861	129.50	5.368	151.33	3.609
20.50	15.785	42.33	28.420	64.17	59.111	86.00	34.019	107.83	24.812	129.67	5.297	151.50	3.608
20.67	15.690	42.50	28.630	64.33	58.994	86.17	33.900	108.00	24.748	129.83	5.231	151.67	3.603
20.83	15.593	42.67	28.841	64.50	58.878	86.33	33.786	108.17	24.685	130.00	5.166	151.83	3.598
21.00	15.495	42.83	29.053	64.67	58.759	86.50	33.702	108.33	24.624	130.17	5.104	152.00	3.597
21.17	15.394	43.00	29.266	64.83	58.637	86.67	33.619	108.50	24.576	130.33	5.046	152.17	3.596
21.33	15.290	43.17	29.481	65.00	58.569	86.83	33.511	108.67	24.528	130.50	4.989	152.33	3.595
21.50	15.186	43.33	29.697	65.17	58.490	87.00	33.406	108.83	24.465	130.67	4.935	152.50	3.594
21.67	15.081	43.50	29.915	65.33	58.346	87.17	33.328	109.00	24.403	130.83	4.883	152.67	3.593

TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
152.83	3.592	174.67	3.302	196.50	2.889	218.33	2.550	240.17	2.174	262.00	1.272	283.83	0.723
153.00	3.591	174.83	3.300	196.67	2.887	218.50	2.548	240.33	2.168	262.17	1.266	284.00	0.720
153.17	3.590	175.00	3.297	196.83	2.884	218.67	2.546	240.50	2.162	262.33	1.260	284.17	0.716
153.33	3.589	175.17	3.295	197.00	2.882	218.83	2.544	240.67	2.157	262.50	1.254	284.33	0.713
153.50	3.588	175.33	3.293	197.17	2.880	219.00	2.542	240.83	2.151	262.67	1.247	284.50	0.709
153.67	3.587	175.50	3.290	197.33	2.878	219.17	2.540	241.00	2.144	262.83	1.241	284.67	0.705
153.83	3.586	175.67	3.285	197.50	2.876	219.33	2.538	241.17	2.139	263.00	1.235	284.83	0.702
154.00	3.585	175.83	3.280	197.67	2.874	219.50	2.536	241.33	2.133	263.17	1.229	285.00	0.699
154.17	3.584	176.00	3.278	197.83	2.871	219.67	2.534	241.50	2.126	263.33	1.223	285.17	0.695
154.33	3.583	176.17	3.275	198.00	2.866	219.83	2.531	241.67	2.120	263.50	1.217	285.33	0.691
154.50	3.582	176.33	3.273	198.17	2.862	220.00	2.527	241.83	2.114	263.67	1.211	285.50	0.688
154.67	3.580	176.50	3.271	198.33	2.859	220.17	2.524	242.00	2.108	263.83	1.205	285.67	0.684
154.83	3.579	176.67	3.268	198.50	2.856	220.33	2.521	242.17	2.101	264.00	1.199	285.83	0.681
155.00	3.578	176.83	3.266	198.67	2.854	220.50	2.519	242.33	2.094	264.17	1.193	286.00	0.677
155.17	3.577	177.00	3.263	198.83	2.852	220.67	2.517	242.50	2.088	264.33	1.187	286.17	0.674
155.33	3.576	177.17	3.260	199.00	2.850	220.83	2.515	242.67	2.082	264.50	1.182	286.33	0.670
155.50	3.574	177.33	3.258	199.17	2.848	221.00	2.513	242.83	2.075	264.67	1.176	286.50	0.667
155.67	3.573	177.50	3.256	199.33	2.846	221.17	2.511	243.00	2.067	264.83	1.170	286.67	0.663
155.83	3.572	177.67	3.250	199.50	2.844	221.33	2.509	243.17	2.061	265.00	1.164	286.83	0.660
156.00	3.567	177.83	3.245	199.67	2.841	221.50	2.507	243.33	2.055	265.17	1.159	287.00	0.656
156.17	3.562	178.00	3.243	199.83	2.837	221.67	2.505	243.50	2.048	265.33	1.153	287.17	0.653
156.33	3.561	178.17	3.241	200.00	2.832	221.83	2.501	243.67	2.040	265.50	1.148	287.33	0.649
156.50	3.559	178.33	3.238	200.17	2.830	222.00	2.497	243.83	2.034	265.67	1.143	287.50	0.646
156.67	3.558	178.50	3.236	200.33	2.827	222.17	2.495	244.00	2.026	265.83	1.137	287.67	0.642
156.83	3.556	178.67	3.233	200.50	2.824	222.33	2.493	244.17	2.019	266.00	1.132	287.83	0.639
157.00	3.555	178.83	3.231	200.67	2.822	222.50	2.491	244.33	2.013	266.17	1.127	288.00	0.635
157.17	3.554	179.00	3.228	200.83	2.820	222.67	2.488	244.50	2.005	266.33	1.121	288.17	0.632
157.33	3.552	179.17	3.225	201.00	2.818	222.83	2.486	244.67	1.998	266.50	1.116	288.33	0.628
157.50	3.551	179.33	3.223	201.17	2.816	223.00	2.484	244.83	1.992	266.67	1.111	288.50	0.625
157.67	3.550	179.50	3.218	201.33	2.814	223.17	2.482	245.00	1.984	266.83	1.106	288.67	0.621
157.83	3.548	179.67	3.213	201.50	2.812	223.33	2.480	245.17	1.977	267.00	1.101	288.83	0.618
158.00	3.547	179.83	3.211	201.67	2.807	223.50	2.478	245.33	1.970	267.17	1.096	289.00	0.614
158.17	3.546	180.00	3.209	201.83	2.803	223.67	2.475	245.50	1.963	267.33	1.092	289.17	0.611
158.33	3.544	180.17	3.206	202.00	2.800	223.83	2.471	245.67	1.955	267.50	1.087	289.33	0.607
158.50	3.543	180.33	3.204	202.17	2.798	224.00	2.469	245.83	1.948	267.67	1.083	289.50	0.604
158.67	3.541	180.50	3.201	202.33	2.795	224.17	2.467	246.00	1.941	267.83	1.078	289.67	0.601
158.83	3.540	180.67	3.198	202.50	2.793	224.33	2.465	246.17	1.933	268.00	1.074	289.83	0.597
159.00	3.538	180.83	3.196	202.67	2.790	224.50	2.462	246.33	1.927	268.17	1.070	290.00	0.594
159.17	3.536	181.00	3.193	202.83	2.788	224.67	2.460	246.50	1.919	268.33	1.066	290.17	0.590
159.33	3.535	181.17	3.191	203.00	2.786	224.83	2.458	246.67	1.911	268.50	1.061	290.33	0.587
159.50	3.530	181.33	3.186	203.17	2.784	225.00	2.456	246.83	1.905	268.67	1.057	290.50	0.583
159.67	3.524	181.50	3.181	203.33	2.782	225.17	2.454	247.00	1.897	268.83	1.053	290.67	0.580
159.83	3.523	181.67	3.178	203.50	2.778	225.33	2.452	247.17	1.889	269.00	1.049	290.83	0.577
160.00	3.521	181.83	3.176	203.67	2.774	225.50	2.449	247.33	1.883	269.17	1.044	291.00	0.573
160.17	3.520	182.00	3.174	203.83	2.772	225.67	2.446	247.50	1.875	269.33	1.040	291.17	0.570
160.33	3.518	182.17	3.171	204.00	2.769	225.83	2.443	247.67	1.867	269.50	1.036	291.33	0.566
160.50	3.516	182.33	3.169	204.17	2.767	226.00	2.441	247.83	1.861	269.67	1.032	291.50	0.563
160.67	3.515	182.50	3.166	204.33	2.764	226.17	2.439	248.00	1.853	269.83	1.028	291.67	0.560
160.83	3.513	182.67	3.164	204.50	2.761	226.33	2.436	248.17	1.845	270.00	1.024	291.83	0.556
161.00	3.511	182.83	3.161	204.67	2.759	226.50	2.434	248.33	1.838	270.17	1.020	292.00	0.553
161.17	3.510	183.00	3.158	204.83	2.757	226.67	2.432	248.50	1.831	270.33	1.016	292.17	0.550
161.33	3.508	183.17	3.153	205.00	2.755	226.83	2.430	248.67	1.823	270.50	1.012	292.33	0.546
161.50	3.506	183.33	3.148	205.17	2.753	227.00	2.428	248.83	1.816	270.67	1.008	292.50	0.543
161.67	3.505	183.50	3.146	205.33	2.749	227.17	2.426	249.00	1.809	270.83	1.004	292.67	0.540
161.83	3.503	183.67	3.144	205.50	2.745	227.33	2.422	249.17	1.801	271.00	1.000	292.83	0.536
162.00	3.501	183.83	3.141	205.67	2.743	227.50	2.419	249.33	1.794	271.17	0.996	293.00	0.533
162.17	3.499	184.00	3.139	205.83	2.741	227.67	2.417	249.50	1.787	271.33	0.992	293.17	0.530
162.33	3.494	184.17	3.136	206.00	2.738	227.83	2.415	249.67	1.779	271.50	0.988	293.33	0.527
162.50	3.489	184.33	3.134	206.17	2.735	228.00	2.412	249.83	1.772	271.67	0.984	293.50	0.523
162.67	3.488	184.50	3.131	206.33	2.733	228.17	2.410	250.00	1.765	271.83	0.981	293.67	0.520
162.83	3.486	184.67	3.128	206.50	2.730	228.33	2.408	250.17	1.757	272.00	0.977	293.83	0.517
163.00	3.484	184.83	3.125	206.67	2.728	228.50	2.405	250.33	1.750	272.17	0.973	294.00	0.513
163.17	3.482	185.00	3.120	206.83	2.726	228.67	2.403	250.50	1.743	272.33	0.969	294.17	0.510
163.33	3.480	185.17	3.115	207.00	2.724	228.83	2.401	250.67	1.735	272.50	0.966	294.33	0.507
163.50	3.478	185.33	3.112	207.17	2.720	229.00	2.398	250.83	1.728	272.67	0.962	294.50	0.504
163.67	3.476	185.50	3.109	207.33	2.716	229.17	2.394	251.00	1.721	272.83	0.958	294.67	0.501
163.83	3.474	185.67	3.107	207.50	2.714	229.33	2.392	251.17	1.713	273.00	0.955	294.83	0.497
164.00	3.472	185.83	3.104	207.67	2.712	229.50	2.390	251.33	1.707	273.17	0.951	295.00	0.494
164.17	3.471	186.00	3.101	207.83	2.710	229.67	2.387	251.50	1.699	273.33	0.947	295.17	0.491
164.33	3.469	186.17	3.098	208.00	2.707	229.83	2.385	251.67	1.692	273.50	0.944	295.33	0.488
164.50	3.467	186.33	3.094	208.17	2.705	230.00	2.383	251.83	1.685	273.67	0.940	295.50	0.485
164.67	3.465	186.50	3.091	208.33	2.702	230.17	2.380	252.00	1.677	273.83	0.936	295.67	0.482
164.83	3.463	186.67	3.086	208.50	2.700	230.33	2.378	252.17	1.670	274.00	0.933	295.83	0.478
165.00	3.457	186.83	3.081	208.67	2.697	230.50	2.376	252.33	1.663	274.17	0.929	296.00	0.475
165.17	3.452	187.00	3.078	208.83	2.695	230.67	2.373	252.50	1.656	274.33	0.925	296.17	0.472
165.33	3.450	187.17	3.075	209.00	2.691	230.83	2.370	252.67	1.649	274.50	0.922	296.33	0.469
165.50	3.448	187.33	3.072	209.17	2.688	231.00	2.368	252.83	1.642	274.67	0.918	296.50	0.466
165.67	3.446	187.50	3.069	209.33	2.686	231.17	2.366	253.00	1.634	274.83	0.915	296.67	0.463
165.83	3.444	187.67	3.066	209.50	2.684	231.33	2.363	253.17	1.627	275.00	0.911	296.83	0.460
166.00	3.442	187.83	3.063	209.67	2.682	231.50	2.361	253.33	1.620	275.17	0.907	297.00	0.457
166.17	3.440	188.00	3.059	209.83	2.679	231.67	2.359	253.50	1.613	275.33	0.904	297.17	0.454
166.33	3.438	188.17	3.054	210.00	2.677	231.83	2.356	253.67	1.606	275.50	0.901	297.33	0.451
166.50	3.436	188.33	3.049	210.17	2.674	232.00	2.354	253.83	1.599	275.67	0.897	297.50	0.448
166.67	3.434	188.50	3.046	210.33	2.672	232.17	2.351	254.00	1.592	275.83	0.893	297.67	0.445
166.83	3.432	188.67	3.044	210.50	2.669	232.33	2.348	254.17	1.585	276.00	0.890	297.83	0.442
167.00	3.430	188.83	3.040	210.67	2.667	232.50	2.344	254.33	1.578	276.17	0.886	298.00	0.439
167.17	3.428	189.00	3.037	210.83	2.663	232.67	2.342	254.50	1.571	276.33	0.883	298.17	0.436
167.33	3.422	189.17	3.033	211.00	2.659	232.83	2.340	254.67	1.564	276.50	0.879	298.33	0.433
167.50	3.417	189.33	3.030	211.17	2.657	233.00	2.337	254.83	1.557	276.67	0.875	298.50	0.430
167.67	3.415	189.50	3.026	211.33	2.656	233.17	2.335	255.00	1.550	276.83	0.872	298.67	0.427
167.83	3.413	189.67	3.021	211.50	2.654	233.33	2.332	255.17	1.543	277.00	0.869	298.83	0.424
168.00	3.411	189.83	3.016	211.67	2.651	233.50	2.330	255.33	1.536	277.17	0.865	299.00	0.421
168.17	3.409	190.00	3.013	211.83	2.649	233.67	2.327	255.50	1.529	277.33	0.861	299.17	0.418
168.33	3.406	190.17	3.010	212.00	2.647	233.83	2.324	255.67	1.522	277.50	0.858	299.33	0.415
168.50	3.404	190.33	3.007	212.17	2.644	234.00	2.320	255.83	1.515	277.67	0.854	299.50	0.412
168.67	3.402	190.50	3.004	212.33	2.642	234.17	2.318	256.00	1.508	277.83	0.851	299.67	0.409
168.83	3.400	190.67	3.000	212.50	2.639	234.33	2.315	256.17	1.501	278.00	0.847	299.83	0.406
169.00	3.398	190.83	2.997	212.67	2.635	234.50	2.312	256.33	1.495	278.17	0.844	300.00	0.403
169.17	3.395	191.00	2.994	212.83	2.631	234.67	2.310	256.50	1.488	278.33	0.840	300.17	0.401
169.33	3.393	191.17	2.988	213.00	2.630	234.83	2.307	256.67	1.481	278.50	0.837	300.33	0.398
169.50	3.388	191.33	2.983	213.17	2.628	235.00	2.304	256.83	1.474	278.67	0.833	300.50	0.395
169.67	3.383	191.50	2.981	213.33	2.626	235.17	2.300	257.00	1.467	278.83	0.830	300.67	0.392
169.83	3.381	191.67	2.978	213.50	2.624	235.33	2.296	257.17	1.460	279.00	0.826	300.83	0.389
170.00	3.379	191.83	2.975	213.67	2.622	235.50	2.294	257.33	1.454	279.17	0.822	301.00	0.387
170.17	3.377	192.00	2.972	213.83	2.619	235.67	2.291	257.50	1.447	279.33	0.819	301.17	0.384
170.33	3.375	192.17	2.969	214.00	2.617	235.83	2.288	257.67	1.440	279.50	0.816	301.33	0.381
170.50	3.372	192.33	2.966	214.17	2.614	236.00	2.285	257.83	1.434	279.67	0.812	301.50	0.378
170.67	3.370	192.50	2.962	214.33	2.612	236.17	2.281	258.00	1.427	279.83	0.808	301.67	0.376
170.83	3.367	192.67	2.957	214.50	2.608	236.33	2.278	258.17	1.420	280.00	0.805	301.83	0.373
171.00	3.365	192.83	2.953	214.67	2.604	236.50	2.274	258.33	1.414	280.17	0.801	302.00	0.370
171.17	3.363	193.00	2.951	214.83	2.602	236.67	2.269	258.50	1.407	280.33	0.798	302.17	0.367
171.33	3.360	193.17	2.948	215.00	2.600	236.83	2.266	258.67	1.400	280.50	0.794	302.33	0.365
171.50	3.358	193.33	2.946	215.17	2.598	237.00	2.262	258.83	1.394	280.67	0.790	302.50	0.362
171.67	3.353	193.50	2.944	215.33	2.596	237.17	2.259	259.00	1.387	280.83	0.787	302.67	0.359
171.83	3.347	193.67	2.941	215.50	2.594	237.33	2.255	259.17	1.381	281.00	0.784	302.83	0.357
172.00	3.345	193.83	2.939	215.67	2.592	237.50	2.250	259.33	1.374	281.17	0.780	303.00	0.354
172.17	3.343	194.00	2.936	215.83	2.590	237.67	2.246	259.50	1.368	281.33	0.776	303.17	0.352
172.33	3.341	194.17	2.933	216.00	2.587	237.83	2.242	259.67	1.361	281.50	0.773	303.33	0.349
172.50	3.339	194.33	2.928	216.17	2.585	238.00	2.238	259.83	1.355	281.67	0.769	303.50	0.346
172.67	3.336	194.50	2.923	216.33	2.581	238.17	2.234	260.00	1.348	281.83	0.766	303.67	0.344
172.83	3.334	194.67	2.920	216.50	2.577	238.33	2.230	260.17	1.342	282.00	0.762	303.83	0.341
173.00	3.331	194.83	2.918	216.67	2.575	238.50	2.224	260.33	1.336	282.17	0.759	304.00	0.339
173.17	3.329	195.00	2.916	216.83	2.573	238.67	2.219	260.50	1.329	282.33	0.755	304.17	0.336
173.33	3.327	195.17	2.914	217.00	2.571	238.83	2.215	260.67	1.323	282.50	0.752	304.33	0.334
173.50	3.324	195.33	2.912	217.17	2.569	239.00	2.210	260.83	1.316	282.67	0.748	304.50	0.331
173.67	3.319	195.50	2.909	217.33	2.567	239.17	2.206	261.00	1.310	282.83	0.745	304.67	0.329
173.83	3.314	195.67	2.907	217.50	2.565	239.33	2.200	261.17	1.304	283.00	0.741	304.83	0.326
174.00	3.312	195.83	2.904	217.67	2.563	239.50	2.195	261.33	1.297	283.17	0.737	305.00	0.324
174.17	3.310	196.00	2.901	217.83	2.560	239.67	2.190	261.50	1.291	283.33	0.734	305.17	0.321
174.33	3.307	196.17	2.896	218.00	2.558	239.83	2.185	261.67	1.285	283.50	0.730	305.33	0.319
174.50	3.305	196.33	2.892	218.17	2.554	240.00	2.180	261.83	1.279	283.67	0.727	305.50	0.316

TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
305.67	0.314	327.50	0.102	349.33	0.029	371.17	0.008	393.00	0.002	414.83	0.001	436.67	0.000
305.83	0.312	327.67	0.101	349.50	0.029	371.33	0.008	393.17	0.002	415.00	0.001	436.83	0.000
306.00	0.309	327.83	0.100	349.67	0.028	371.50	0.007	393.33	0.002	415.17	0.001	437.00	0.000
306.17	0.307	328.00	0.100	349.83	0.028	371.67	0.007	393.50	0.002	415.33	0.001	437.17	0.000
306.33	0.304	328.17	0.099	350.00	0.028	371.83	0.007	393.67	0.002	415.50	0.001	437.33	0.000
306.50	0.302	328.33	0.098	350.17	0.027	372.00	0.007	393.83	0.002	415.67	0.001	437.50	0.000
306.67	0.300	328.50	0.097	350.33	0.027	372.17	0.007	394.00	0.002	415.83	0.001	437.67	0.000
306.83	0.297	328.67	0.096	350.50	0.027	372.33	0.007	394.17	0.002	416.00	0.001	437.83	0.000
307.00	0.295	328.83	0.095	350.67	0.027	372.50	0.007	394.33	0.002	416.17	0.001	438.00	0.000
307.17	0.293	329.00	0.094	350.83	0.026	372.67	0.007	394.50	0.002	416.33	0.001	438.17	0.000
307.33	0.291	329.17	0.093	351.00	0.026	372.83	0.007	394.67	0.002	416.50	0.001	438.33	0.000
307.50	0.288	329.33	0.092	351.17	0.026	373.00	0.007	394.83	0.002	416.67	0.000	438.50	0.000
307.67	0.286	329.50	0.092	351.33	0.026	373.17	0.007	395.00	0.002	416.83	0.000	438.67	0.000
307.83	0.284	329.67	0.091	351.50	0.025	373.33	0.007	395.17	0.002	417.00	0.000	438.83	0.000
308.00	0.282	329.83	0.090	351.67	0.025	373.50	0.007	395.33	0.002	417.17	0.000	439.00	0.000
308.17	0.279	330.00	0.089	351.83	0.025	373.67	0.007	395.50	0.002	417.33	0.000	439.17	0.000
308.33	0.277	330.17	0.088	352.00	0.025	373.83	0.006	395.67	0.002	417.50	0.000	439.33	0.000
308.50	0.275	330.33	0.087	352.17	0.024	374.00	0.006	395.83	0.002	417.67	0.000	439.50	0.000
308.67	0.273	330.50	0.087	352.33	0.024	374.17	0.006	396.00	0.002	417.83	0.000	439.67	0.000
308.83	0.271	330.67	0.086	352.50	0.024	374.33	0.006	396.17	0.002	418.00	0.000	439.83	0.000
309.00	0.268	330.83	0.085	352.67	0.024	374.50	0.006	396.33	0.002	418.17	0.000	440.00	0.000
309.17	0.266	331.00	0.084	352.83	0.023	374.67	0.006	396.50	0.002	418.33	0.000	440.17	0.000
309.33	0.264	331.17	0.083	353.00	0.023	374.83	0.006	396.67	0.002	418.50	0.000	440.33	0.000
309.50	0.262	331.33	0.083	353.17	0.023	375.00	0.006	396.83	0.002	418.67	0.000	440.50	0.000
309.67	0.260	331.50	0.082	353.33	0.023	375.17	0.006	397.00	0.002	418.83	0.000	440.67	0.000
309.83	0.258	331.67	0.081	353.50	0.022	375.33	0.006	397.17	0.002	419.00	0.000	440.83	0.000
310.00	0.256	331.83	0.080	353.67	0.022	375.50	0.006	397.33	0.002	419.17	0.000	441.00	0.000
310.17	0.254	332.00	0.079	353.83	0.022	375.67	0.006	397.50	0.002	419.33	0.000	441.17	0.000
310.33	0.252	332.17	0.079	354.00	0.022	375.83	0.006	397.67	0.002	419.50	0.000	441.33	0.000
310.50	0.250	332.33	0.078	354.17	0.022	376.00	0.006	397.83	0.001	419.67	0.000	441.50	0.000
310.67	0.248	332.50	0.077	354.33	0.021	376.17	0.006	398.00	0.001	419.83	0.000	441.67	0.000
310.83	0.246	332.67	0.077	354.50	0.021	376.33	0.006	398.17	0.001	420.00	0.000	441.83	0.000
311.00	0.244	332.83	0.076	354.67	0.021	376.50	0.006	398.33	0.001	420.17	0.000	442.00	0.000
311.17	0.242	333.00	0.075	354.83	0.021	376.67	0.005	398.50	0.001	420.33	0.000	442.17	0.000
311.33	0.240	333.17	0.074	355.00	0.021	376.83	0.005	398.67	0.001	420.50	0.000	442.33	0.000
311.50	0.238	333.33	0.074	355.17	0.020	377.00	0.005	398.83	0.001	420.67	0.000	442.50	0.000
311.67	0.236	333.50	0.073	355.33	0.020	377.17	0.005	399.00	0.001	420.83	0.000	442.67	0.000
311.83	0.234	333.67	0.072	355.50	0.020	377.33	0.005	399.17	0.001	421.00	0.000	442.83	0.000
312.00	0.232	333.83	0.072	355.67	0.020	377.50	0.005	399.33	0.001	421.17	0.000	443.00	0.000
312.17	0.230	334.00	0.071	355.83	0.020	377.67	0.005	399.50	0.001	421.33	0.000	443.17	0.000
312.33	0.228	334.17	0.070	356.00	0.019	377.83	0.005	399.67	0.001	421.50	0.000	443.33	0.000
312.50	0.226	334.33	0.070	356.17	0.019	378.00	0.005	399.83	0.001	421.67	0.000	443.50	0.000
312.67	0.224	334.50	0.069	356.33	0.019	378.17	0.005	400.00	0.001	421.83	0.000	443.67	0.000
312.83	0.222	334.67	0.068	356.50	0.019	378.33	0.005	400.17	0.001	422.00	0.000	443.83	0.000
313.00	0.221	334.83	0.068	356.67	0.019	378.50	0.005	400.33	0.001	422.17	0.000	444.00	0.000
313.17	0.219	335.00	0.067	356.83	0.018	378.67	0.005	400.50	0.001	422.33	0.000	444.17	0.000
313.33	0.217	335.17	0.066	357.00	0.018	378.83	0.005	400.67	0.001	422.50	0.000	444.33	0.000
313.50	0.215	335.33	0.066	357.17	0.018	379.00	0.005	400.83	0.001	422.67	0.000	444.50	0.000
313.67	0.213	335.50	0.065	357.33	0.018	379.17	0.005	401.00	0.001	422.83	0.000	444.67	0.000
313.83	0.212	335.67	0.064	357.50	0.018	379.33	0.005	401.17	0.001	423.00	0.000	444.83	0.000
314.00	0.210	335.83	0.064	357.67	0.017	379.50	0.005	401.33	0.001	423.17	0.000	445.00	0.000
314.17	0.208	336.00	0.063	357.83	0.017	379.67	0.005	401.50	0.001	423.33	0.000	445.17	0.000
314.33	0.206	336.17	0.063	358.00	0.017	379.83	0.004	401.67	0.001	423.50	0.000	445.33	0.000
314.50	0.205	336.33	0.062	358.17	0.017	380.00	0.004	401.83	0.001	423.67	0.000	445.50	0.000
314.67	0.203	336.50	0.061	358.33	0.017	380.17	0.004	402.00	0.001	423.83	0.000	445.67	0.000
314.83	0.201	336.67	0.061	358.50	0.017	380.33	0.004	402.17	0.001	424.00	0.000	445.83	0.000
315.00	0.199	336.83	0.060	358.67	0.016	380.50	0.004	402.33	0.001	424.17	0.000	446.00	0.000
315.17	0.198	337.00	0.060	358.83	0.016	380.67	0.004	402.50	0.001	424.33	0.000	446.17	0.000
315.33	0.196	337.17	0.059	359.00	0.016	380.83	0.004	402.67	0.001	424.50	0.000	446.33	0.000
315.50	0.194	337.33	0.059	359.17	0.016	381.00	0.004	402.83	0.001	424.67	0.000	446.50	0.000
315.67	0.193	337.50	0.058	359.33	0.016	381.17	0.004	403.00	0.001	424.83	0.000	446.67	0.000
315.83	0.191	337.67	0.057	359.50	0.016	381.33	0.004	403.17	0.001	425.00	0.000	446.83	0.000
316.00	0.189	337.83	0.057	359.67	0.015	381.50	0.004	403.33	0.001	425.17	0.000	447.00	0.000
316.17	0.188	338.00	0.056	359.83	0.015	381.67	0.004	403.50	0.001	425.33	0.000	447.17	0.000
316.33	0.186	338.17	0.056	360.00	0.015	381.83	0.004	403.67	0.001	425.50	0.000	447.33	0.000
316.50	0.185	338.33	0.055	360.17	0.015	382.00	0.004	403.83	0.001	425.67	0.000	447.50	0.000
316.67	0.183	338.50	0.055	360.33	0.015	382.17	0.004	404.00	0.001	425.83	0.000	447.67	0.000
316.83	0.182	338.67	0.054	360.50	0.015	382.33	0.004	404.17	0.001	426.00	0.000	447.83	0.000
317.00	0.180	338.83	0.054	360.67	0.015	382.50	0.004	404.33	0.001	426.17	0.000	448.00	0.000
317.17	0.178	339.00	0.053	360.83	0.014	382.67	0.004	404.50	0.001	426.33	0.000	448.17	0.000
317.33	0.177	339.17	0.053	361.00	0.014	382.83	0.004	404.67	0.001	426.50	0.000	448.33	0.000
317.50	0.175	339.33	0.052	361.17	0.014	383.00	0.004	404.83	0.001	426.67	0.000	448.50	0.000
317.67	0.174	339.50	0.052	361.33	0.014	383.17	0.004	405.00	0.001	426.83	0.000	448.67	0.000
317.83	0.172	339.67	0.051	361.50	0.014	383.33	0.004	405.17	0.001	427.00	0.000	448.83	0.000
318.00	0.171	339.83	0.051	361.67	0.014	383.50	0.004	405.33	0.001	427.17	0.000	449.00	0.000
318.17	0.169	340.00	0.050	361.83	0.014	383.67	0.004	405.50	0.001	427.33	0.000	449.17	0.000
318.33	0.168	340.17	0.050	362.00	0.013	383.83	0.004	405.67	0.001	427.50	0.000	449.33	0.000
318.50	0.166	340.33	0.049	362.17	0.013	384.00	0.003	405.83	0.001	427.67	0.000	449.50	0.000
318.67	0.165	340.50	0.049	362.33	0.013	384.17	0.003	406.00	0.001	427.83	0.000	449.67	0.000
318.83	0.164	340.67	0.048	362.50	0.013	384.33	0.003	406.17	0.001	428.00	0.000	449.83	0.000
319.00	0.162	340.83	0.048	362.67	0.013	384.50	0.003	406.33	0.001	428.17	0.000	450.00	0.000
319.17	0.161	341.00	0.047	362.83	0.013	384.67	0.003	406.50	0.001	428.33	0.000	450.17	0.000
319.33	0.159	341.17	0.047	363.00	0.013	384.83	0.003	406.67	0.001	428.50	0.000	450.33	0.000
319.50	0.158	341.33	0.046	363.17	0.012	385.00	0.003	406.83	0.001	428.67	0.000	450.50	0.000
319.67	0.157	341.50	0.046	363.33	0.012	385.17	0.003	407.00	0.001	428.83	0.000	450.67	0.000
319.83	0.155	341.67	0.045	363.50	0.012	385.33	0.003	407.17	0.001	429.00	0.000	450.83	0.000
320.00	0.154	341.83	0.045	363.67	0.012	385.50	0.003	407.33	0.001	429.17	0.000	451.00	0.000
320.17	0.152	342.00	0.045	363.83	0.012	385.67	0.003	407.50	0.001	429.33	0.000	451.17	0.000
320.33	0.151	342.17	0.044	364.00	0.012	385.83	0.003	407.67	0.001	429.50	0.000	451.33	0.000
320.50	0.150	342.33	0.044	364.17	0.012	386.00	0.003	407.83	0.001	429.67	0.000	451.50	0.000
320.67	0.148	342.50	0.043	364.33	0.012	386.17	0.003	408.00	0.001	429.83	0.000	451.67	0.000
320.83	0.147	342.67	0.043	364.50	0.012	386.33	0.003	408.17	0.001	430.00	0.000	451.83	0.000
321.00	0.146	342.83	0.042	364.67	0.011	386.50	0.003	408.33	0.001	430.17	0.000	452.00	0.000
321.17	0.145	343.00	0.042	364.83	0.011	386.67	0.003	408.50	0.001	430.33	0.000	452.17	0.000
321.33	0.143	343.17	0.042	365.00	0.011	386.83	0.003	408.67	0.001	430.50	0.000	452.33	0.000
321.50	0.142	343.33	0.041	365.17	0.011	387.00	0.003	408.83	0.001	430.67	0.000	452.50	0.000
321.67	0.141	343.50	0.041	365.33	0.011	387.17	0.003	409.00	0.001	430.83	0.000	452.67	0.000
321.83	0.139	343.67	0.040	365.50	0.011	387.33	0.003	409.17	0.001	431.00	0.000	452.83	0.000
322.00	0.138	343.83	0.040	365.67	0.011	387.50	0.003	409.33	0.001	431.17	0.000	453.00	0.000
322.17	0.137	344.00	0.040	365.83	0.011	387.67	0.003	409.50	0.001	431.33	0.000	453.17	0.000
322.33	0.136	344.17	0.039	366.00	0.011	387.83	0.003	409.67	0.001	431.50	0.000	453.33	0.000
322.50	0.135	344.33	0.039	366.17	0.010	388.00	0.003	409.83	0.001	431.67	0.000	453.50	0.000
322.67	0.133	344.50	0.038	366.33	0.010	388.17	0.003	410.00	0.001	431.83	0.000	453.67	0.000
322.83	0.132	344.67	0.038	366.50	0.010	388.33	0.003	410.17	0.001	432.00	0.000	453.83	0.000
323.00	0.131	344.83	0.038	366.67	0.010	388.50	0.003	410.33	0.001	432.17	0.000	454.00	0.000
323.17	0.130	345.00	0.037	366.83	0.010	388.67	0.003	410.50	0.001	432.33	0.000	454.17	0.000
323.33	0.129	345.17	0.037	367.00	0.010	388.83	0.003	410.67	0.001	432.50	0.000	454.33	0.000
323.50	0.127	345.33	0.037	367.17	0.010	389.00	0.003	410.83	0.001	432.67	0.000	454.50	0.000
323.67	0.126	345.50	0.036	367.33	0.010	389.17	0.003	411.00	0.001	432.83	0.000	454.67	0.000
323.83	0.125	345.67	0.036	367.50	0.010	389.33	0.003	411.17	0.001	433.00	0.000	454.83	0.000
324.00	0.124	345.83	0.036	367.67	0.009	389.50	0.002	411.33	0.001	433.17	0.000	455.00	0.000
324.17	0.123	346.00	0.035	367.83	0.009	389.67	0.002	411.50	0.001	433.33	0.000	455.17	0.000
324.33	0.122	346.17	0.035	368.00	0.009	389.83	0.002	411.67	0.001	433.50	0.000	455.33	0.000
324.50	0.121	346.33	0.035	368.17	0.009	390.00	0.002	411.83	0.001	433.67	0.000	455.50	0.000
324.67	0.120	346.50	0.034	368.33	0.009	390.17	0.002	412.00	0.001	433.83	0.000	455.67	0.000
324.83	0.119	346.67	0.034	368.50	0.009	390.33	0.002	412.17	0.001	434.00	0.000	455.83	0.000
325.00	0.117	346.83	0.033	368.67	0.009	390.50	0.002	412.33	0.001	434.17	0.000	456.00	0.000
325.17	0.116	347.00	0.033	368.83	0.009	390.67	0.002	412.50	0.001	434.33	0.000	456.17	0.000
325.33	0.115	347.17	0.033	369.00	0.009	390.83	0.002	412.67	0.001	434.50	0.000	456.33	0.000
325.50	0.114	347.33	0.033	369.17	0.009	391.00	0.002	412.83	0.001	434.67	0.000	456.50	0.000
325.67	0.113	347.50	0.032	369.33	0.009	391.17	0.002	413.00	0.001	434.83	0.000	456.67	0.000
325.83	0.112	347.67	0.032	369.50	0.008	391.33	0.002	413.17	0.001	435.00	0.000	456.83	0.000
326.00	0.111	347.83	0.032	369.67	0.008	391.50	0.002	413.33	0.001	435.17	0.000	457.00	0.000
326.17	0.110	348.00	0.031	369.83	0.008	391.67	0.002	413.50	0.001	435.33	0.000	457.17	0.000
326.33	0.109	348.17	0.031	370.00	0.008	391.83	0.002	413.67	0.001	435.50	0.000	457.33	0.000
326.50	0.108	348.33	0.031	370.17	0.008	392.00	0.002	413.83	0.001	435.67	0.000	457.50	0.000
326.67	0.107	348.50	0.030	370.33	0.008	392.17	0.002	414.00	0.001	435.83	0.000	457.67	0.000
326.83	0.106	348.67	0.030	370.50	0.008	392.33	0.002	414.17	0.001	436.00	0.000	457.83	0.000
327.00	0.105	348.83	0.030	370.67	0.008	392.50	0.002	414.33	0.001	436.17	0.000	458.00	0.000
327.17	0.104	349.00	0.029	370.83	0.008	392.67	0.002	414.50	0.001	436.33	0.000	458.17	0.000
327.33	0.103	349.17	0.029	371.00	0.008	392.83	0.002	414.67	0.001	436.50	0.000	458.33	0.000

N2 (JR SUMMER)



Hydrograph Statistics:

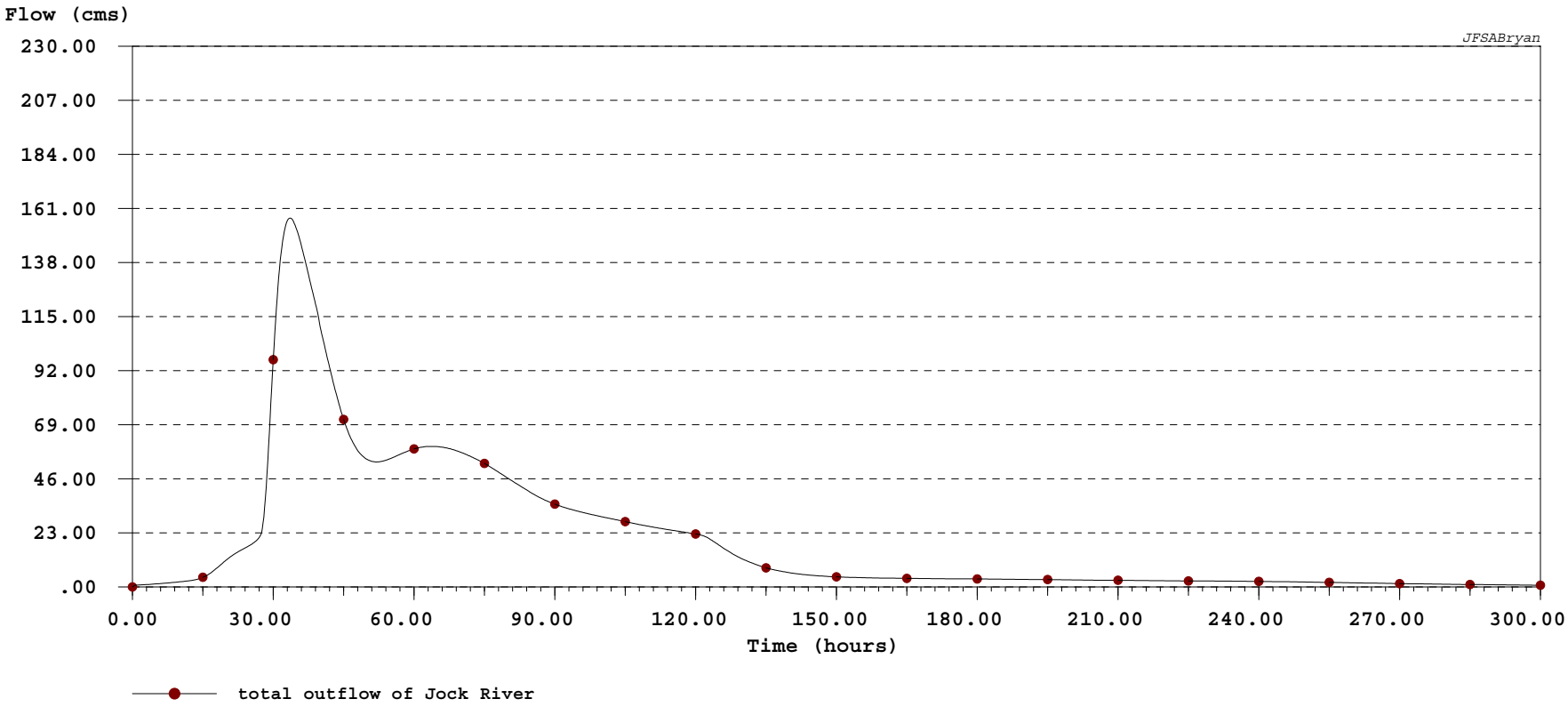
Legend	Filename & Comment	Time Step (min)	Drainage Area (ha)	Peak Flow (cms)	Time to Peak (hrs)	Runoff Volume (mm)	Runoff Volume (cu.m)	Duration of flow (hrs)	Average flow (cms)
△	H-N2.100 : N2	10.00	48262.00	88.035	34.000	37.94	1.831E+07	300.000	16.954

Hydrograph Table:

Hydrograph Filename : Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\JRSUMM~1\H-N2.100
Comment in file : N2

TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
0.00	0.000	21.83	17.176	43.67	56.219	65.50	59.295	87.33	34.750	109.17	25.081	131.00	7.301	152.83	3.640	174.67	3.373	196.50	2.968	218.33	2.613	240.17	2.258	262.00	1.440	283.83	0.822	305.67	0.402	327.50	0.162	349.33	0.060	371.17	0.019	393.00	0.005	414.83	0.001	436.67	0.000	458.50	0.000
0.17	0.004	22.00	17.191	43.83	55.695	65.67	59.290	87.50	34.640	109.33	25.012	131.17	7.190	153.00	3.637	174.83	3.369	196.67	2.968	218.50	2.610	240.33	2.254	262.17	1.434	284.00	0.819	305.83	0.399	327.67	0.161	349.50	0.059	371.33	0.018	393.17	0.005	415.00	0.001	436.83	0.000	458.67	0.000
0.33	0.019	22.17	17.202	44.00	55.183	65.83	59.264	87.67	34.496	109.50	24.943	131.33	7.082	153.17	3.635	175.00	3.366	196.83	2.967	218.67	2.607	240.50	2.250	262.33	1.428	284.17	0.816	306.00	0.396	327.83	0.160	349.67	0.059	371.50	0.018	393.33	0.005	415.17	0.001	437.00	0.000	458.83	0.000
0.50	0.045	22.33	17.208	44.17	54.682	66.00	59.126	87.83	34.356	109.67	24.906	131.50	6.979	153.33	3.633	175.17	3.362	197.00	2.963	218.83	2.604	240.67	2.245	262.50	1.422	284.33	0.813	306.17	0.393	328.00	0.159	349.83	0.058	371.67	0.018	393.50	0.005	415.33	0.001	437.17	0.000	459.00	0.000
0.67	0.077	22.50	17.209	44.33	54.196	66.17	59.018	88.00	34.276	109.83	24.866	131.67	6.879	153.50	3.630	175.33	3.359	197.17	2.959	219.00	2.602	240.83	2.240	262.67	1.416	284.50	0.809	306.33	0.390	328.17	0.157	350.00	0.058	371.83	0.018	393.67	0.005	415.50	0.001	437.33	0.000	459.17	0.000
0.83	0.107	22.67	17.208	44.50	53.708	66.33	58.866	88.17	34.196	110.00	24.796	131.83	6.782	153.67	3.628	175.50	3.355	197.33	2.955	219.17	2.599	241.00	2.236	262.83	1.409	284.67	0.806	306.50	0.387	328.33	0.156	350.17	0.057	372.00	0.018	393.83	0.005	415.67	0.001	437.50	0.000	459.33	0.000
1.00	0.140	22.83	17.204	44.67	53.239	66.50	58.684	88.33	34.063	110.17	24.729	132.00	6.688	153.83	3.631	175.67	3.352	197.50	2.951	219.33	2.596	241.17	2.232	263.00	1.404	284.83	0.803	306.67	0.384	328.50	0.155	350.33	0.057	372.17	0.018	394.00	0.005	415.83	0.001	437.67	0.000	459.50	0.000
1.17	0.173	23.00	17.196	44.83	52.782	66.67	58.641	88.50	33.933	110.33	24.661	132.17	6.596	154.00	3.633	175.83	3.349	197.67	2.947	219.50	2.593	241.33	2.228	263.17	1.398	285.00	0.799	306.83	0.381	328.67	0.154	350.50	0.056	372.33	0.017	394.17	0.005	416.00	0.001	437.83	0.000	459.67	0.000
1.33	0.209	23.17	17.187	45.00	52.344	66.83	58.617	88.67	33.852	110.50	24.624	132.33	6.507	154.17	3.630	176.00	3.345	197.83	2.944	219.67	2.591	241.50	2.223	263.33	1.391	285.17	0.796	307.00	0.378	328.83	0.153	350.67	0.056	372.50	0.017	394.33	0.005	416.17	0.001	438.00	0.000	459.83	0.000
1.50	0.247	23.33	17.178	45.17	51.930	67.00	58.467	88.83	33.769	110.67	24.585	132.50	6.421	154.33	3.627	176.17	3.342	198.00	2.941	219.83	2.590	241.67	2.218	263.50	1.385	285.33	0.793	307.17	0.375	329.00	0.152	350.83	0.055	372.67	0.017	394.50	0.005	416.33	0.001	438.17	0.000	460.00	0.000
1.67	0.289	23.50	17.166	45.33	51.546	67.17	58.277	89.00	33.642	110.83	24.517	132.67	6.336	154.50	3.624	176.33	3.339	198.17	2.938	220.00	2.588	241.83	2.213	263.67	1.379	285.50	0.790	307.33	0.372	329.17	0.151	351.00	0.055	372.83	0.017	394.67	0.005	416.50	0.001	438.33	0.000	460.17	0.000
1.83	0.334	23.67	17.156	45.50	51.160	67.33	58.074	89.17	33.527	111.00	24.451	132.83	6.255	154.67	3.621	176.50	3.340	198.33	2.937	220.17	2.586	242.00	2.209	263.83	1.373	285.67	0.786	307.50	0.369	329.33	0.150	351.17	0.055	373.00	0.017	394.83	0.004	416.67	0.001	438.50	0.000	460.33	0.000
2.00	0.385	23.83	17.148	45.67	50.804	67.50	58.017	89.33	33.461	111.17	24.385	133.00	6.175	154.83	3.619	176.67	3.341	198.50	2.937	220.33	2.583	242.17	2.204	264.00	1.367	285.83	0.783	307.67	0.366	329.50	0.149	351.33	0.054	373.17	0.017	395.00	0.004	416.83	0.001	438.67	0.000	460.50	0.000
2.17	0.441	24.00	17.138	45.83	50.471	67.67	57.958	89.50	33.386	111.33	24.348	133.17	6.097	155.00	3.618	176.83	3.337	198.67	2.933	220.50	2.580	242.33	2.199	264.17	1.361	286.00	0.780	307.83	0.363	329.67	0.148	351.50	0.054	373.33	0.016	395.17	0.004	417.00	0.001	438.83	0.000	460.67	0.000
2.33	0.496	24.17	17.132	46.00	50.160	67.83	57.759	89.67	33.262	111.50	24.309	133.33	6.022	155.17	3.616	177.00	3.334	198.83	2.929	220.67	2.577	242.50	2.194	264.33	1.354	286.17	0.776	308.00	0.360	329.83	0.147	351.67	0.053	373.50	0.016	395.33	0.004	417.17	0.001	439.00	0.000	460.83	0.000
2.50	0.544	24.33	17.128	46.17	49.872	68.00	57.551	89.83	33.147	111.67	24.242	133.50	5.949	155.33	3.614	177.17	3.330	199.00	2.925	220.83	2.575	242.67	2.188	264.50	1.347	286.33	0.773	308.17	0.357	330.00	0.146	351.83	0.053	373.67	0.016	395.50	0.004	417.33	0.001	439.17	0.000	461.00	0.000
2.67	0.593	24.50	17.124	46.33	49.639	68.17	57.360	90.00	33.087	111.83	24.177	133.67	5.877	155.50	3.612	177.33	3.326	199.17	2.921	221.00	2.572	242.83	2.184	264.67	1.340	286.50	0.770	308.33	0.354	330.17	0.145	352.00	0.052	373.83	0.016	395.67	0.004	417.50	0.001	439.33	0.000	461.17	0.000
2.83	0.642	24.67	17.125	46.50	49.330	68.33	57.326	90.17	33.017	112.00	24.112	133.83	5.808	155.67	3.610	177.50	3.323	199.33	2.917	221.17	2.569	243.00	2.179	264.83	1.333	286.67	0.767	308.50	0.351	330.33	0.144	352.17	0.052	374.00	0.016	395.83	0.004	417.67	0.001	439.50	0.000	461.33	0.000
3.00	0.692	24.83	17.131	46.67	49.179	68.50	57.253	90.33	32.892	112.17	24.076	134.00	5.741	155.83	3.608	177.67	3.319	199.50	2.914	221.33	2.567	243.17	2.173	265.00	1.327	286.83	0.763	308.67	0.349	330.50	0.143	352.33	0.052	374.17	0.016	396.00	0.004	417.83	0.001	439.67	0.000	461.50	0.000
3.17	0.742	25.00	17.139	46.83	49.061	68.67	57.007	90.50	32.770	112.33	24.038	134.17	5.675	156.00	3.606	177.83	3.316	199.67	2.911	221.50	2.564	243.33	2.168	265.17	1.320	287.00	0.760	308.83	0.346	330.67	0.142	352.50	0.051	374.33	0.015	396.17	0.004	418.00	0.001	439.83	0.000	461.67	0.000
3.33	0.792	25.17	17.153	47.00	48.856	68.83	56.787	90.67	32.705	112.50	23.972	134.33	5.611	156.17	3.604	178.00	3.313	199.83	2.908	221.67	2.563	243.50	2.162	265.33	1.313	287.17	0.757	309.00	0.343	330.83	0.141	352.67	0.051	374.50	0.015	396.33	0.004	418.17	0.001	440.00	0.000	461.83	0.000
3.50	0.842	25.33	17.176	47.17	48.685	69.00	56.707	90.83	32.647	112.67	23.908	134.50	5.549	156.33	3.602	178.17	3.309	200.00	2.905	221.83	2.562	243.67	2.157	265.50	1.307	287.33	0.754	309.17	0.341	331.00	0.140	352.83	0.050	374.67	0.015	396.50	0.004	418.33	0.001	440.17	0.000	462.00	0.000
3.67	0.891	25.50	17.204	47.33	48.622	69.17	56.597	91.00	32.541	112.83	23.844	134.67	5.488	156.50	3.600	178.33	3.306	200.17	2.905	222.00	2.559	243.83	2.152	265.67	1.300	287.50	0.750	309.33	0.338	331.17	0.139	353.00	0.050	374.83	0.015	396.67	0.004	418.50	0.001	440.33	0.000	462.17	0.000
3.83	0.940	25.67	17.229	47.50	48.580	69.33	56.341	91.17	32.430	113.00	23.808	134.83	5.429	156.67	3.598	178.50	3.303	200.33	2.905	222.17	2.556	244.00	2.146	265.83	1.293	287.67	0.747	309.50	0.336	331.33	0.138	353.17	0.050	375.00	0.015	396.83	0.004	418.67	0.001	440.50	0.000	462.33	0.000
4.00	0.989	25.83	17.267	47.67	48.482	69.50	56.114	91.33	32.361	113.17	23.770	135.00	5.372	156.83	3.596	178.67	3.304	200.50	2.901	222.33	2.553	244.17	2.140	266.00	1.287	287.83	0.744	309.67	0.333	331.50	0.137	353.33	0.049	375.17	0.015	397.00	0.004	418.83	0.001	440.67	0.000	462.50	0.000
4.17	1.037	26.00	17.324	47.83	48.417	69.67	56.045	91.50	32.297	113.33	23.705	135.17	5.317	157.00	3.594	178.83	3.305	200.67	2.897	222.50	2.551	244.33	2.135	266.17	1.281	288.00	0.741	309.83	0.331	331.67	0.136	353.50	0.049	375.33	0.015	397.17	0.004	419.00	0.001	440.83	0.000	462.67	0.000
4.33	1.082	26.17	17.395	48.00	48.383	69.83	55.941	91.67	32.199	113.50	23.642	135.33	5.263	157.17	3.592	179.00	3.301	200.83	2.893	222.67	2.548	244.50	2.130	266.33	1.275	288.17	0.737	310.00	0.328	331.83	0.135	353.67	0.048	375.50	0.014	397.33	0.004	419.17	0.001	441.00	0.000	462.83	0.000
4.50	1.122	26.33	17.467	48.17	48.388	70.00	55.674	91.83	32.102	113.67	23.579	135.50	5.207	157.33	3.591	179.17	3.297	201.00	2.890	222.83	2.545	244.67	2.124	266.50	1.269	288.33	0.734	310.17	0.326	332.00	0.134	353.83	0.048	375.67	0.014	397.50	0.004	419.33	0.001	441.17	0.000	463.00	0.000
4.67	1.161	26.50	17.551	48.33	48.423	70.17	55.436	92.00	31.997	113.83	23.544	135.67	5.157	157.50	3.594	179.33	3.294	201.17	2.886	223.00	2.543	244.83	2.117	266.67	1.263	288.50	0.731	310.33	0.324	332.17	0.133	354.00	0.048	375.83	0.014	397.67	0.004	419.50	0.001	441.33	0.000	463.17	0.000
4.83	1.200	26.67	17.666	48.50	48.478	70.33	55.358	92.17	31.950	114.00	23.507	135.83	5.110	157.67	3.596	179.50	3.290	201.33	2.883	223.17	2.540	245.00	2.112	266.83	1.257	288.67	0.728	310.50	0.321	332.33	0.132	354.17	0.047	376.00	0.014	397.83	0.004	419.67	0.001	441.50	0.000	463.33	0.000
5.00	1.238	26.83	17.812	48.67	48.550	70.50	55.250	92.33	31.904	114.17	23.442	136.00	5.062	157.83	3.593	179.67	3.286	201.50	2.879	223.33	2.537	245.17	2.106	267.00	1.251	288.83	0.725	310.67	0.319	332.50	0.131	354.33	0.047	376.17	0.014	398.00	0.004	419.83	0.001	441.67	0.000	463.50	0.000
5.17	1.275	27.00	17.969	48.83	48.640	70.67	54.982	92.50	31.805	114.33	23.380	136.17	5.016	158.00	3.590	179.83	3.283	201.67	2.877	223.50	2.536	245.33	2.099	267.17	1.245	289.00	0.721	310.83	0.317	332.67	0.130	354.50	0.046	376.33	0.014	398.17	0.004	420.00	0.001	441.83	0.000	463.67	0.000
5.33	1.310	27.17	18.181	49.00	48.734	70.83	54.736	92.67	31.707	114.50	23.318	136.33	4.971	158.17	3.587	180.00	3.279	201.83	2.874	223.67	2.535	245.50	2.092	267.33	1.240	289.17	0.718	311.00	0.315	332.83	0.129	354.67	0.046	376.50	0.014	398.33	0.004	420.17	0.001	442.00	0.000	463.83	0.000
5.50	1.343	27.33	18.485	49.17	48.833	71.00	54.646	92.83	31.605	114.67	23.283	136.50	4.925	158.33	3.584	180.17	3.275	202.00	2.874	223.83	2.533	245.67	2.086	267.50	1.234	289.33	0.715	311.17	0.312	333.00	0.128	354.83	0.046	376.67	0.013	398.50	0.004	420.33	0.001	442.17	0.000	464.00	0.000
5.67	1.375	27.50	18.836	49.33	48.959	71.17	54.540	93.00	31.556	114.83	23.246	136.67	4.878	158.50	3.582	180.33	3.272	202.17	2.874	224.00	2.530	245.83	2.080	267.67	1.229	289.50	0.712	311.33	0.310	333.17	0.127	355.00	0.045	376.83	0.013	398.67	0.004	420.50	0.001	442.33	0.000	464.17	0.000
5.83	1.405	27.67	19.786	49.50	49.015	71.33	54.278	93.17	31.508	115.00	23.183	136.83	4.834	158.67	3.581	180.50	3.269	202.33	2.870	224.17	2.527	246.00	2.073	267.83	1.223	289.67	0.708	311.50	0.308	333.33	0.126	355.17	0.045	377.00	0.013	398.83	0.004	420.67	0.001	442.50	0.000	464.33	0.000
6.00	1.434	27.83	21.381	49.67	49.087	71.50	54.026	93.33	31.410	115.17	23.122	137.00	4.791	158.83	3.579	180.67	3.270	202.50	2.866	224.33	2.524	246.17	2.066	268.00	1.217	289.83	0.705	311.67	0.306	333.50	0.125	355.33	0.044	377.17	0.013	399.00	0.003	420.83	0.001	442.67	0.000	464.50	0.000
6.17	1.463	28.00	23.192	49.83	49.265	71.67	53.923	93.50	31.313	115.33	23.061	137.17	4.750	159.00	3.577	180.83	3.271	202.67	2.862	224.50	2.522	246.33	2.060	268.17	1.211	290.00	0.702	311.83	0.304	333.67	0.124	355.50	0.044	377.33	0.013	399.17	0.003	421.00	0.001	442.83	0.000	464.67	0.000
6.33	1.490	28.17	25.741	50.00	49.458	71.83	53.796	93.67	31.214	115.50	23.026	137.33	4.710	159.17	3.575	181.00	3.267	202.83	2.858	224.67	2.519	246.50	2.054	268.33	1.206	290.17	0.699	312.00	0.302	333.83	0.123	355.67	0.044	377.50	0.013	399.33	0.003	421.17	0.001	443.00	0.000	464.83	0.000
6.50	1.518	28.33	28.948	50.17	49.567	72.00	53.522	93.83	31.169	115.67	22.989	137.50	4.672	159.33	3.573	181.17	3.263	203.00	2.854	224.83	2.516	246.67	2.047	268.50	1.200	290.33	0.696	312.17	0.300	334.00	0.122	355.83	0.043	377.67	0.013	399.50	0.003	421.33	0.001	443.17	0.000	465.00	0.000
6.67	1.544	28.50	32.424	50.33	49.694	72.17	53.274	94.00	31.124	115.83	22.927	137.67	4.641	159.50	3.571	181.33	3.259	203.17	2.851	225.00	2.514	246.83	2.039	268.67	1.194	290.50	0.693	312.33	0.298	334.17	0.122	356.00	0.043	377.83	0.013	399.67	0.003	421.50	0.001	443.33	0.000	465.17	0.000
6.83	1.570	28.67	36.182	50.50	49.942	72.33	53.168	94.17	31.027	116.00	22.866	137.83	4.611	159.67	3.569	181.50	3.255	203.33	2.847	225.17	2.511	247.00	2.033	268.83	1.188	290.67	0.689	312.50	0.296	334.33	0.121	356.17	0.043	378.00	0.012	399.83	0.003	421.67	0.001	443.50	0.000	465.33	0.000
7.00	1.595	28.83	39.968	50.67	50.100	72.50	53.037	94.33	30.931	116.17	22.806	138.00	4.579	159.83	3.567	181.67	3.252	203.50	2.845	225.33	2.510	247.17	2.027	269.00	1.183	290.83	0.686	312.67	0.294	334.50	0.120	356.33	0.042	378.17	0.012	400.00	0.003	421.83	0.001	443.67	0.000	465.50	0.000
7.17	1.620	29.00	43.841	50.83	50.268	72.67	52.763	94.50	30.836	116.33	22.771	138.17	4.548	160.00	3.565	181.83	3.248	203.67	2.844	225.50	2.509	247.33	2.020	269.17	1.177	291.00	0.683	312.83	0.292	334.67	0.119	356.50	0.042	378.33	0.012	400.17	0.003	422.00	0.001	443.83	0.000	465.67	0.000
7.33	1.645	29.17	47.559	51.00	50.552	72.83	52.596	94.67	30.793	116.50	22.734	138.33	4.519	160.17	3.563	182.00	3.244	203.83	2.843	225.67	2.506	247.50	2.013	269.33	1.172	291.17	0.680	313.00	0.290	334.83	0.118	356.67	0.041	378.50	0.012	400.33	0.003	422.17	0.001	444.00	0.000	465.83	0.000
7.50	1.669	29.33	51.010	51.17	50.722	73.00	52.417	94.83	30.749	116.67	22.672	138.50	4.490	160.33	3.561	182.17	3.241	204.00	2.839	225.83	2.503	247.67	2.007	269.50	1.166	291.33	0.677	313.17	0.288	335.00	0.117	356.83	0.041	378.67	0.012	400.50	0.003	422.33	0.001	444.17	0.000	466.00	0.000
7.67	1.694	29.50	54.410	51.33	50.896	73.17	52.148	95.00	30.656	116.83	22.612	138.67	4.461	160.50	3.559	182.33	3.238	204.17	2.835	226.00	2.501	247.83	2.001	269.67	1.161	291.50	0.674	313.33	0.286	335.17	0.116	357.00	0.041	378.83	0.012	400.67	0.003	422.50	0.001	444.33	0.000	466.17	0.000
7.83	1.718	29.67	57.388	51.50	51.208	73.33	51.996	95.17	30.563	117.00	22.552	138.83	4.433	160.67	3.557	182.50	3.234	204.33	2.832	226.17	2.498	248.00	1.993	269.83	1.156	291.67	0.671	313.50	0.284	335.33	0.115	357.17	0.040	379.00	0.012	400.83	0.003	422.67	0.001	444.50	0.000	466.33	0.000
8.00	1.742	29.83	60.066	51.67	51.395	73.50	51.829	95.33	30.472	117.17	22.517	139.00	4.406	160.83	3.555	182.67	3.235	204.50	2.828	226.33	2.495	248.17	1.986	270.00	1.150	291.83	0.668	313.67	0.282	335.50	0.114	357.33	0.040	379.17	0.012	401.00	0.003	422.83	0.001	444.67	0.000	466.50	0.000
8.17	1.766	30.00	62.803	51.83	51.585	73.67	51.556	95.50	30.429	117.33	22.480	139.17	4.380	161.00	3.557	182.83	3.236	204.67	2.825	226.50	2.493	248.33	1.980	270.17	1.145	292.00	0.664	313.83	0.280	335.67	0.114	357.50	0.040	379.33	0.011	401.17	0.003	423.00	0.001	444.83	0.000	466.67	0.000
8.33	1.791	30.17	65.257	52.00	51.917	73.83	51.393	95.67	30.387	117.50	22.418	139.33	4.354	161.17	3.559	183.00	3.232	204.83	2.821	226.67	2.490	248.50	1.974	270.33	1.140	292.17	0.661	314.00	0.278	335.83	0.113	357.67	0.039	379.50	0.011	401.33	0.003	423.17	0.001	445.00	0.000	466.83	0.000
8.50	1.816	30.33	67.381	52.17	52.114	74.00	51.208	95.83	30.296	117.67	22.358	139.50	4.330	161.33	3.556	183.17	3.229	205.00	2.818	226.83	2.487	248.67	1.966	270.50	1.135	292.33	0.658	314.17	0.276	336.00	0.112	357.83	0.039	379.67	0.011	401.50	0.003	423.33	0.001	445.17	0.000	467.00	0.000
8.67	1.842	30.50	69.450	52.33	52.308	74.17	50.918	96.00	30.206	117.83	22.294	139.67	4.305	161.50	3.553	183.33	3.225	205.17	2.815	227.00	2.485	248.83	1.959	270.67	1.130	292.50	0.655	314.33	0.275	336.17	0.111	358.00	0.039	379.83	0.011	401.67	0.003	423.50	0.001	445.33	0.000	467.17	0.000
8.83	1.869	30.67	71.294	52.50	52.654	74.33	50.752	96.17	30.116	118.00	22.252	139.83	4.282	161.67	3.550	183.50	3.221	205.33	2.814	227.17	2.484	249.00	1.953	270.83	1.125	292.67	0.652	314.50	0.273	336.33	0.110	358.17	0.038	380.00	0.011	401.83	0.003	423.67	0.001	445.50	0.000	467.33	0.000
9.00	1.896	30.83	72.936	52.67	52.855	74.50	50.571	96.33	30.074	118.17	22.208	140.00	4.259	161.83	3.548	183.67	3.217	205.50	2.812	227.33	2.483	249.17	1.947	271.00	1.120	292.83	0.649	314.67	0.271	336.50	0.109	358.33	0.038	380.17	0.011	402.00	0.003	423.83	0.001	445.67	0.000	467.50	0.000
9.17	1.925	31.00	74.512	52.83	53.049	74.67	50.279	96.50	30.032	118.33	22.141	140.17	4.237	162.00	3.546	183.83	3.213	205.67	2.809	227.50	2.480	249.33	1.939	271.17	1.115	293.00	0.646	314.83	0.269	336.67	0.109	358.50	0.038	380.33	0.011	402.17	0.003	424.00	0.001	445.83	0.000	467.67	0.000
9.33	1.955	31.17	75.920	53.00	53.395	74.83	50.110	96.67	29.943	118.50	22.075	140.33	4.215	162.17	3.544	184.00	3.210	205.83	2.805	227.67	2.477	249.50	1.933	271.33	1.110	293.17	0.642	315.00	0.267	336.83	0.108	358.67	0.037	380.50	0.011	402.33	0.003	424.17	0.001	446.00	0.000	467.83	0.000
9.50	1.987	31.33	77.181	53.17	53.592	75.00	49.923	96.83	29.854	118.67	22.011	140.50	4.195	162.33	3.542	184.17	3.206	206.00	2.802	227.83	2.475	249.67	1.926	271.50	1.105	293.33	0.639	315.17	0.266	337.00	0.107	358.83	0.037	380.67	0.011	402.50	0.003	424.33	0.001	446.17	0.000	468.00	0.000
9.67	2.021	31.50	78.370	53.33	53.784	75.17	49.629	97.00	29.766	118.83	21.969	140.67	4.169	162.50	3.539	184.33	3.203	206.17	2.799	228.00	2.472	249.83	1.919	271.67	1.100	293.50	0.636	315.33	0.264	337.17	0.106	359.00	0.037	380.83	0.011	402.67	0.003	424.50	0.001	446.33	0.000	468.17	0.000
9.83	2.056	31.67	79.498	53.50	54.129	75.33	49.458	97.17	29.724	119.00	21.927	140.83	4.154	162.67	3.537	184.50	3.200	206.33	2.796	228.17	2.469	250.00	1.913	271.83	1.095	293.67	0.633	315.50	0.262	337.33	0.105	359.17	0.036	381.00	0.010	402.83	0.003	424.67	0.001	446.50	0.000	468.33	0.000
10.00	2.091	31.83	80.562	53.67	54.324	75.50	49.271	97.33	29.682	119.17	21.863	141.00	4.139	162.83	3.535	184.67	3.201	206.50	2.793	228.33	2.467	250.17	1.906	272.00	1.090	293.83	0.630	315.67	0.260	337.50	0.105	359.33	0.036	381.17	0.010	403.00	0.003	424.83	0.001	446.67	0.000	468.50	0.000
10.17	2.126	32.00	81.562	53.83	54.513	75.67	48.973	97.50	29.594	119.33	21.802	141.17	4.115	163.00	3.532	184.83	3.202	206.67	2.790	228.50	2.464	250.33	1.899	272.17	1.085	294.00	0.627	315.83	0.259	337.67	0.104	359.50	0.036	381.33	0.010	403.17	0.003	425.00	0.001	446.83	0.000	468.67	0.000
10.33	2.161	32.17	82.512	54.00	54.860	75.83	48.800	97.67	29.506	119.50	21.740	141.33	4.100	163.17	3.530	185.00	3.198	206.83	2.787	228.67	2.461	250.50	1.892	272.33	1.081	294.17	0.624	316.00	0.257	337.83	0.103	359.67	0.035	381.50	0.010	403.33	0.003	425.17	0.001	447.00	0.000	468.83	0.000
10.50	2.198	32.33	83.388	54.17	55.053	76.00	48.612	97.83	29.419	119.67	21.700	141.50	4.086	163.33	3.528	185.17	3.194	207.00	2.785	228.83	2.459	250.67	1.886	272.50	1.076	294.33	0.621	316.17	0.255	338.00	0.102	359.83	0.035	381.67	0.010	403.50	0.003	425.33	0.001	447.17	0.000	469.00	0.000
10.67	2.237	32.50	84.338	54.33	55.218	76.17	48.315	98.00	29.377	119.83	21.657	141.67	4.064	163.50	3.525	185.33	3.190	207.17	2.784	229.00	2.457	250.83	1.879	272.67	1.071	294.50	0.618	316.33	0.254	338.17	0.101	360.00	0.035	381.83	0.010	403.67	0.003	425.50	0.001	447.33	0.000	469.17	0.000
10.83	2.278	32.67	84.962	54.50	55.537	76.33	48.140	98.17	29.335	120.00	21.586	141.83	4.051	163.67	3.523	185.50	3.186	207.33	2.781	229.17	2.456	251.00	1.872	272.83	1.067	294.67	0.615	316.50	0.252	338.33	0.101	360.17	0.034	382.00	0.010	403.83	0.003	425.67	0.001	447.50	0.000	469.33	0.000
11.00	2.322	32.83	85.502	54.67	55.731	76.50	47.951	98.33	29.248	120.17	21.508	142.00	4.038	163.83	3.521	185.67	3.182	207.50	2.778	229.33	2.454	251.17	1.866	273.00	1.062	294.83	0.611	316.67	0.250	338.50	0.100	360.33	0.034	382.17	0.010	404.00	0.003	425.83	0.001	447.67	0.000	469.50	0.000
11.17	2.371	33.00	86.084	54.83	55.898	76.67	47.653	98.50	29.161	120.33	21.437	142.17	4.019	164.00	3.518	185.83	3.178	207.67	2.775	229.50	2.451	251.33	1.858	273.17	1.057	295.00	0.608	316.83	0.249	338.67	0.099	360.50	0.034	382.33	0.010	404.17	0.003	426.00	0.001	447.83	0.000	469.67	0.000
11.33	2.424	33.17	86.567	55.00	56.200	76.83	47.478	98.67	29.074	120.50	21.344	142.33	4.007	164.17	3.521	186.00	3.175	207.83	2.772	229.67	2.448	251.50	1.852	273.33	1.053	295.17	0.605	317.00	0.247	338.83	0.098	360.67	0.034	382.50	0.010	404.33	0.003	426.17	0.001	448.00	0.000	469.83	0.000
11.50	2.483	33.33	86.978	55.17	56.376	77.00	47.288	98.83	29.033	120.67	21.209	142.50	3.995	164.33	3.523	186.17	3.171	208.00	2.769	229.83	2.446	251.67	1.845	273.50	1.048	295.33	0.602	317.17	0.245	339.00	0.098	360.83	0.033	382.67	0.009	404.50	0.002	426.33	0.001	448.17	0.000	470.00	0.000
11.67	2.547	33.50	87.224	55.33	56.532	77.17	46.991	99.00	28.991	120.83	21.082	142.67	3.977	164.50	3.519	186.33	3.167	208.17	2.766	230.00	2.443	251.83	1.838	273.67	1.044	295.50	0.599	317.33	0.244	339.17	0.097	361.00	0.033	382.83	0.009	404.67	0.002	426.50	0.001	448.33	0.000	470.17	0.000
11.83	2.614	33.67	87.599	55.50	56.820	77.33	46.814	99.17	28.905	121.00	20.927	142.83	3.961	164.67	3.516	186.50	3.168	208.33	2.763	230.17	2.440	252.00	1.832	273.83	1.040	295.67	0.596	317.50	0.242	339.33	0.096	361.17	0.033	383.00	0.009	404.83	0.002	426.67	0.001	448.50	0.000	470.33	0.000
12.00	2.681	33.83	87.882	55.67	56.987	77.50	46.624	99.33	28.819	121.17	20.747	143.00	3.954	164.83	3.513	186.67	3.168	208.50	2.760	230.33	2.438	252.17	1.825	274.00	1.035	295.83	0.593	317.67	0.241	339.50	0.095	361.33	0.032	383.17	0.009	405.00	0.002	426.83	0.001	448.67	0.000	470.50	0.000
12.17	2.757	34.00	88.035	55.83	57.133	77.67	46.328	99.50	28.734	121.33	20.549	143.17	3.946	165.00	3.511	186.83	3.164	208.67	2.758	230.50	2.435	252.33	1.818	274.17	1.031	296.00	0.590	317.83	0.239	339.67	0.095	361.50	0.032	383.33	0.009	405.17	0.002	427.00	0.001	448.83	0.000	470.67	0.000
12.33	2.846	34.17	87.892	56.00	57.405	77.83	46.147	99.67	28.692	121.50	20.340	143.33	3.930	165.17	3.509	187.00	3.160	208.83	2.756	230.67	2.432	252.50	1.811	274.33	1.027	296.17	0.587	318.00	0.238	339.83	0.094	361.67	0.032	383.50	0.009	405.33	0.002	427.17	0.001	449.00	0.000	470.83	0.000
12.50	2.944	34.33	87.705	56.17	57.579	78.00	45.939	99.83	28.651	121.67	20.115	143.50	3.916	165.33	3.506	187.17	3.156	209.00	2.755	230.83	2.431	252.67	1.805	274.50	1.023	296.33	0.584	318.17	0.236	340.00	0.093	361.83	0.032	383.67	0.009	405.50	0.002	427.33	0.001	449.17	0.000	471.00	0.000
12.67	3.051	34.50	87.681	56.33	57.730	78.17	45.618	100.00	28.566	121.83	19.871	143.67	3.910	165.50	3.503	187.33	3.152	209.17	2.752	231.00	2.430	252.83	1.798	274.67	1.018	296.50	0.581	318.33	0.234	340.17	0.092	362.00	0.031	383.83	0.009	405.67	0.002	427.50	0.001	449.33	0.000	471.17	0.000
12.83	3.173	34.67	87.625	56.50	57.941	78.33	45.428	100.17	28.482	122.00	19.613	143.83	3.903	165.67	3.500	187.50	3.148	209.33	2.749	231.17	2.427	253.00	1.791	274.83	1.014	296.67	0.578	318.50	0.233	340.33	0.092	362.17	0.031	384.00	0.009	405.83	0.002	427.67	0.001	449.50	0.000	471.33	0.000
13.00	3.309	34.83	87.517	56.67	58.156	78.50	45.234	100.33	28.398	122.17	19.317	144.00	3.889	165.83	3.498	187.67	3.144	209.50	2.746	231.33	2.424	253.17	1.785	275.00	1.010	296.83	0.575	318.67	0.231	340.50	0.091	362.33	0.031	384.17	0.009	406.00	0.002	427.83	0.001	449.67	0.000	471.50	0.000
13.17	3.457	35.00	87.311	56.83	58.269	78.67	44.926	100.50	28.357	122.33	19.015	144.17	3.876	166.00	3.495	187.83	3.140	209.67	2.743	231.50	2.422	253.33	1.777	275.17	1.006	297.00	0.572	318.83	0.230	340.67	0.090	362.50	0.030	384.33	0.009	406.17	0.002	428.00	0.001	449.83	0.000	471.67	0.000
13.33	3.620	35.17	87.298	57.00	58.369	78.83	44.733	100.67	28.316	122.50	18.710	144.33	3.869	166.17	3.492	188.00	3.137	209.83	2.740	231.67	2.419	253.50	1.771	275.33	1.002	297.17	0.569	319.00	0.228	340.83	0.090	362.67	0.030	384.50	0.008	406.33	0.002	428.17	0.001	450.00	0.000	471.83	0.000
13.50	3.799	35.33	87.156	57.17	58.563	79.00	44.534	100.83	28.233	122.67	18.404	144.50	3.864	166.33	3.490	188.17	3.133	210.00	2.738	231.83	2.416	253.67	1.764	275.50	0.998	297.33	0.566	319.17	0.227	341.00	0.089	362.83	0.030	384.67	0.008	406.50	0.002	428.33	0.001	450.17	0.000	472.00	0.000
13.67	3.987	35.50	86.665	57.33	58.756	79.17	44.235	101.00	28.149	122.83	18.096	144.67	3.852	166.50	3.487	188.33	3.134	210.17	2.735	232.00	2.413	253.83	1.757	275.67	0.994	297.50	0.563	319.33	0.225	341.17	0.088	363.00	0.030	384.83	0.008	406.67	0.002	428.50	0.001	450.33	0.000	472.17	0.000
13.83	4.186	35.67	86.213	57.50	58.972	79.33	44.048	101.17	28.067	123.00	17.787	144.83	3.841	166.67	3.485	188.50	3.134	210.33	2.732	232.17	2.410	254.00	1.751	275.83	0.990	297.67	0.560	319.50	0.224	341.33	0.087	363.17	0.029	385.00	0.008	406.83	0.002	428.67	0.001	450.50	0.000	472.33	0.000
14.00	4.406	35.83	86.065	57.67	59.031	79.50	43.852	101.33	28.027	123.17	17.479	145.00	3.831	166.83	3.482	188.67	3.130	210.50	2.729	232.33	2.407	254.17	1.744	276.00	0.986	297.83	0.557	319.67	0.222	341.50	0.087	363.33	0.029	385.17	0.008	407.00	0.002	428.83	0.001	450.67	0.000	472.50	0.000
14.17	4.646	36.00	85.800	57.83	59.067	79.67	43.557	101.50	27.986	123.33	17.173	145.17	3.827	167.00	3.484	188.83	3.125	210.67	2.728	232.50	2.406	254.33	1.737	276.17	0.983	298.00	0.554	319.83	0.221	341.67	0.086	363.50	0.029	385.33	0.008	407.17	0.002	429.00	0.001	450.83	0.000	472.67	0.000
14.33	4.925	36.17	85.168	58.00	59.215	79.83	43.372	101.67	27.904	123.50	16.867	145.33	3.823	167.17	3.486	189.00	3.121	210.83	2.727	232.67	2.404	254.50	1.731	276.33	0.979	298.17	0.551	320.00	0.219	341.83	0.085	363.67	0.028	385.50	0.008	407.33	0.002	429.17	0.001	451.00	0.000	472.83	0.000
14.50	5.243	36.33	84.862	58.17	59.367	80.00	43.177	101.83	27.823	123.67	16.565	145.50	3.813	167.33	3.482	189.17	3.117	211.00	2.724	232.83	2.401	254.67	1.724	276.50	0.975	298.33	0.548	320.17	0.218	342.00	0.085	363.83	0.028	385.67	0.008	407.50	0.002	429.33	0.001	451.17	0.000	473.00	0.000
14.67	5.577	36.50	84.511	58.33	59.546	80.17	42.884	102.00	27.742	123.83	16.267	145.67	3.805	167.50	3.479	189.33	3.113	211.17	2.721	233.00	2.398	254.83	1.717	276.67	0.971	298.50	0.545	320.33	0.217	342.17	0.084	364.00	0.028	385.83	0.008	407.67	0.002	429.50	0.001	451.33	0.000	473.17	0.000
14.83	5.933	36.67	83.794	58.50	59.714	80.33	42.701	102.17	27.703	124.00	15.975	145.83	3.797	167.67	3.476	189.50	3.108	211.33	2.718	233.17	2.395	255.00	1.711	276.83	0.967	298.67	0.542	320.50	0.215	342.33	0.083	364.17	0.028	386.00	0.008	407.83	0.002	429.67	0.001	451.50	0.000	473.33	0.000
15.00	6.311	36.83	83.437	58.67	59.731	80.50	42.511	102.33	27.662	124.17	15.686	146.00	3.788	167.83	3.473	189.67	3.104	211.50	2.715	233.33	2.392	255.17	1.704	277.00	0.964	298.83	0.539	320.67	0.214	342.50	0.083	364.33	0.027	386.17	0.008	408.00	0.002	429.83	0.001	451.67	0.000	473.50	0.000
15.17	6.687	37.00	83.030	58.83	59.743	80.67	42.227	102.50	27.582	124.33	15.401	146.17	3.786	168.00	3.470	189.83	3.101	211.67	2.712	233.50	2.389	255.33	1.697	277.17	0.960	299.00	0.536	320.83	0.212	342.67	0.082	364.50	0.027	386.33	0.008	408.17	0.002	430.00	0.001	451.83	0.000	473.67	0.000
15.33	7.063	37.17	82.397	59.00	59.867	80.83	42.048	102.67	27.502	124.50	15.120	146.33	3.784	168.17	3.467	190.00	3.101	211.83	2.709	233.67	2.386	255.50	1.691	277.33	0.956	299.17	0.533	321.00	0.211	342.83	0.081	364.67	0.027	386.50	0.007	408.33	0.002	430.17	0.001	452.00	0.000	473.83	0.000
15.50	7.456	37.33	81.771	59.17	59.968	81.00	41.858	102.83	27.423	124.67	14.839	146.50	3.775	168.33	3.464	190.17	3.101	212.00	2.706	233.83	2.383	255.67	1.685	277.50	0.953	299.33	0.530	321.17	0.210	343.00	0.081	364.83	0.027	386.67	0.007	408.50	0.002	430.33	0.001	452.17	0.000	474.00	0.000
15.67	7.861	37.50	81.248	59.33	60.057	81.17	41.578	103.00	27.384	124.83	14.554	146.67	3.768	168.50	3.462	190.33	3.096	212.17	2.704	234.00	2.381	255.83	1.677	277.67	0.949	299.50	0.527	321.33	0.208	343.17	0.080	365.00	0.026	386.83	0.007	408.67	0.002	430.50	0.001	452.33	0.000	474.17	0.000
15.83	8.288	37.67	80.685	59.50	60.143	81.33	41.406	103.17	27.344	125.00	14.244	146.83	3.760	168.67	3.459	190.50	3.092	212.33	2.701	234.17	2.379	256.00	1.671	277.83	0.945	299.67	0.524	321.50	0.207	343.33	0.079	365.17	0.026	387.00	0.007	408.83	0.002	430.67	0.001	452.50	0.000	474.33	0.000
16.00	8.741	37.83	80.079	59.67	60.241	81.50	41.220	103.33	27.265	125.17	13.921	147.00	3.754	168.83	3.456	190.67	3.087	212.50	2.700	234.33	2.376	256.17	1.665	278.00	0.942	299.83	0.521	321.67	0.205	343.50	0.079	365.33	0.026	387.17	0.007	409.00	0.002	430.83	0.001	452.67	0.000	474.50	0.000
16.17	9.204	38.00	79.463	59.83	60.333	81.67	40.933	103.50	27.187	125.33	13.613	147.17	3.748	169.00	3.453	190.83	3.083	212.67	2.698	234.50	2.373	256.33	1.658	278.17	0.938	300.00	0.518	321.83	0.204	343.67	0.078	365.50	0.026	387.33	0.007	409.17	0.002	431.00	0.001	452.83	0.000	474.67	0.000
16.33	9.669	38.17	78.845	60.00	60.408	81.83	40.759	103.67	27.109	125.50	13.326	147.33	3.748	169.17	3.450	191.00	3.079	212.83	2.696	234.67	2.370	256.50	1.651	278.33	0.935	300.17	0.515	322.00	0.203	343.83	0.077	365.67	0.025	387.50	0.007	409.33	0.002	431.17	0.001	453.00	0.000	474.83	0.000
16.50	10.134	38.33	78.193	60.17	60.355	82.00	40.576	103.83	27.067	125.67	13.064	147.50	3.746	169.33	3.448	191.17	3.075	213.00	2.693	234.83	2.367	256.67	1.645	278.50	0.931	300.33	0.512	322.17	0.201	344.00	0.077	365.83	0.025	387.67	0.007	409.50	0.002	431.33	0.001	453.17	0.000	475.00	0.000
16.67	10.595	38.50	77.564	60.33	60.321	82.17	40.290	104.00	27.024	125.83	12.813	147.67	3.740	169.50	3.445	191.33	3.071	213.17	2.690	235.00	2.364	256.83	1.638	278.67	0.927	300.50	0.509	322.33	0.200	344.17	0.076	366.00	0.025	387.83	0.007	409.67	0.002	431.50	0.001	453.33	0.000	475.17	0.000
16.83	11.048	38.67	76.948	60.50	60.414	82.33	40.115	104.17	26.942	126.00	12.565	147.83	3.733	169.67	3.447	191.50	3.067	213.33	2.687	235.17	2.361	257.00	1.632	278.83	0.924	300.67	0.506	322.50	0.199	344.33	0.075	366.17	0.025	388.00	0.007	409.83	0.002	431.67	0.000	453.50	0.000	475.33	0.000
17.00	11.491	38.83	76.340	60.67	60.484	82.50	39.932	104.33	26.861	126.17	12.323	148.00	3.727	169.83	3.448	191.67	3.067	213.50	2.684	235.33	2.358	257.17	1.625	279.00	0.920	300.83	0.503	322.67	0.197	344.50	0.075	366.33	0.025	388.17	0.007	410.00	0.002	431.83	0.000	453.67	0.000	475.50	0.000
17.17	11.903	39.00	75.734	60.83	60.536	82.67	39.648	104.50	26.779	126.33	12.086	148.17	3.721	170.00	3.444	191.83	3.067	213.67	2.681	235.50	2.356	257.33	1.618	279.17	0.917	301.00	0.500	322.83	0.196	344.67	0.074	366.50	0.024	388.33	0.007	410.17	0.002	432.00	0.000	453.83	0.000	475.67	0.000
17.33	12.282	39.17	75.137	61.00	60.572	82.83	39.474	104.67	26.739	126.50	11.853	148.33	3.716	170.17	3.441	192.00	3.062	213.83	2.678	235.67	2.353	257.50	1.612	279.33	0.913	301.17	0.497	323.00	0.195	344.83	0.073	366.67	0.024	388.50	0.007	410.33	0.002	432.17	0.000	454.00	0.000	475.83	0.000
17.50	12.647	39.33	74.553	61.17	60.597	83.00	39.290	104.83	26.698	126.67	11.626	148.50	3.711	170.33	3.438	192.17	3.057	214.00	2.676	235.83	2.349	257.67	1.606	279.50	0.910	301.33	0.495	323.17	0.193	345.00	0.073	366.83	0.024	388.67	0.007	410.50	0.002	432.33	0.000	454.17	0.000	476.00	0.000
17.67	13.000	39.50	73.966	61.33	60.611	83.17	39.003	105.00	26.618	126.83	11.407	148.67	3.706	170.50	3.435	192.33	3.053	214.17	2.673	236.00	2.346	257.83	1.599	279.67	0.906	301.50	0.492	323.33	0.192	345.17	0.072	367.00	0.024	388.83	0.006	410.67	0.002	432.50	0.000	454.33	0.000	476.17	0.000
17.83	13.338	39.67	73.219	61.50	60.616	83.33	38.822	105.17	26.538	127.00	11.194	148.83	3.708	170.67	3.432	192.50	3.048	214.33	2.672	236.17	2.343	258.00	1.593	279.83	0.903	301.67	0.489	323.50	0.191	345.33	0.072	367.17	0.023	389.00	0.006	410.83	0.002	432.67	0.000	454.50	0.000	476.33	0.000
18.00	13.677	39.83	72.363	61.67	60.612	83.50	38.635	105.33	26.459	127.17	10.986	149.00	3.709	170.83	3.429	192.67	3.044	214.50	2.671	236.33	2.339	258.17	1.586	280.00	0.900	301.83	0.486	323.67	0.190	345.50	0.071	367.33	0.023	389.17	0.006	411.00	0.002	432.83	0.000	454.67	0.000	476.50	0.000
18.17	14.015	40.00	71.333	61.83	60.601	83.67	38.351	105.50	26.417	127.33	10.783	149.17	3.704	171.00	3.426	192.83	3.040	214.67	2.668	236.50	2.336	258.33	1.579	280.17	0.896	302.00	0.483	323.83	0.188	345.67	0.070	367.50	0.023	389.33	0.006	411.17	0.002	433.00	0.000	454.83	0.000	476.67	0.000
18.33	14.334	40.17	70.415	62.00	60.582	83.83	38.175	105.67	26.373	127.50	10.584	149.33	3.699	171.17	3.423	193.00	3.037	214.83	2.665	236.67	2.333	258.50	1.573	280.33	0.893	302.17	0.480	324.00	0.187	345.83	0.070	367.67	0.023	389.50	0.006	411.33	0.002	433.17	0.000	455.00	0.000	476.83	0.000
18.50	14.631	40.33	69.656	62.17	60.556	84.00	37.995	105.83	26.294	127.67	10.389	149.50	3.695	171.33	3.420	193.17	3.033	215.00	2.662	236.83	2.330	258.67	1.567	280.50	0.889	302.33	0.477	324.17	0.186	346.00	0.069	367.83	0.023	389.67	0.006	411.50	0.002	433.33	0.000	455.17	0.000	477.00	0.000
18.67	14.908	40.50	68.838	62.33	60.525	84.17	37.737	106.00	26.217	127.83	10.201	149.67	3.691	171.50	3.417	193.33	3.033	215.17	2.659	237.00	2.328	258.83	1.560	280.67	0.886	302.50	0.475	324.33	0.184	346.17	0.069	368.00	0.022	389.83	0.006	411.67	0.002	433.50	0.000	455.33	0.000	477.17	0.000
18.83	15.164	40.67	68.066	62.50	60.488	84.33	37.573	106.17	26.140	128.00	10.018	149.83	3.686	171.67	3.414	193.50	3.032	215.33	2.656	237.17	2.324	259.00	1.554	280.83	0.883	302.67	0.472	324.50	0.183	346.33	0.068	368.17	0.022	390.00	0.006	411.83	0.002	433.67	0.000	455.50	0.000	477.33	0.000
19.00	15.400	40.83	67.343	62.67	60.445	84.50	37.400	106.33	26.099	128.17	9.837	150.00	3.683	171.83	3.411	193.67	3.028	215.50	2.653	237.33	2.320	259.17	1.548	281.00	0.879	302.83	0.468	324.67	0.182	346.50	0.068	368.33	0.022	390.17	0.006	412.00	0.002	433.83	0.000	455.67	0.000	477.50	0.000
19.17	15.617	41.00	66.628	62.83	60.398	84.67	37.160	106.50	26.055	128.33	9.659	150.17	3.679	172.00	3.412	193.83	3.023	215.67	2.651	237.50	2.317	259.33	1.541	281.17	0.876	303.00	0.464	324.83	0.181	346.67	0.067	368.50	0.022	390.33	0.006	412.17	0.002	434.00	0.000	455.83	0.000	477.67	0.000
19.33	15.816	41.17	65.899	63.00	60.346	84.83	37.008	106.67	25.977	128.50	9.484	150.33	3.676	172.17	3.413	194.00	3.019	215.83	2.648	237.67	2.313	259.50	1.535	281.33	0.872	303.17	0.460	325.00	0.180	346.83	0.067	368.67	0.021	390.50	0.006	412.33	0.002	434.17	0.000	456.00	0.000	477.83	0.000
19.50	15.998	41.33	65.179	63.17	60.289	85.00	36.848	106.83	25.902	128.67	9.313	150.50	3.672	172.33	3.409	194.17	3.015	216.00	2.645	237.83	2.310	259.67	1.529	281.50	0.869	303.33	0.456	325.17	0.178	347.00	0.066	368.83	0.021	390.67	0.006	412.50	0.002	434.33	0.000	456.17	0.000	478.00	0.000
19.67	16.164	41.50	64.477	63.33	60.229	85.17	36.624	107.00	25.828	128.83	9.147	150.67	3.669	172.50	3.406	194.33	3.010	216.17	2.644	238.00	2.307	259.83	1.522	281.67	0.866	303.50	0.452	325.33	0.177	347.17	0.066	369.00	0.021	390.83	0.006	412.67	0.002	434.50	0.000	456.33	0.000	478.17	0.000
19.83	16.324	41.67	63.783	63.50	60.164	85.33	36.482	107.17	25.788	129.00	8.984	150.83	3.666	172.67	3.403	194.50	3.007	216.33	2.643	238.17	2.304	260.00	1.516	281.83	0.862	303.67	0.448	325.50	0.176	347.33	0.065	369.17	0.021	391.00	0.006	412.83	0.002	434.67	0.000	456.50	0.000	478.33	0.000
20.00	16.456	41.83	63.090	63.67	60.105	85.50	36.334	107.33	25.746	129.17	8.819	151.00	3.668	172.83	3.399	194.67	3.003	216.50	2.640	238.33	2.300	260.17	1.509	282.00	0.859	303.83	0.443	325.67	0.175	347.50	0.065	369.33	0.021	391.17	0.006	413.00	0.001	434.83	0.000	456.67	0.000	478.50	0.000
20.17	16.573	42.00	62.411	63.83	60.061	85.67	36.128	107.50	25.670	129.33	8.650	151.17	3.670	173.00	3.396	194.83	3.000	216.67	2.637	238.50	2.296	260.33	1.503	282.17	0.856	304.00	0.439	325.83	0.173	347.67	0.064	369.50	0.020	391.33	0.006	413.17	0.001	435.00	0.000	456.83	0.000	478.67	0.000
20.33	16.682	42.17	61.715	64.00	60.013	85.83	35.995	107.67	25.597	129.50	8.484	151.33	3.666	173.17	3.393	195.00	3.000	216.83	2.634	238.67	2.292	260.50	1.497	282.33	0.852	304.17	0.435	326.00	0.172	347.83	0.064	369.67	0.020	391.50	0.006	413.33	0.001	435.17	0.000	457.00	0.000	478.83	0.000
20.50	16.776	42.33	61.008	64.17	59.943	86.00	35.853	107.83	25.525	129.67	8.325	151.50	3.663	173.33	3.389	195.17	2.999	217.00	2.632	238.83	2.288	260.67	1.491	282.50	0.849	304.33	0.430	326.17	0.171	348.00	0.063	369.83	0.020	391.67	0.005	413.50	0.001	435.33	0.000	457.17	0.000	479.00	0.000
20.67	16.860	42.50	60.340	64.33	59.972	86.17	35.660	108.00	25.486	129.83	8.173	151.67	3.660	173.50	3.386	195.33	2.995	217.17	2.629	239.00	2.285	260.83	1.484	282.67	0.846	304.50	0.427	326.33	0.170	348.17	0.063	370.00	0.020	391.83	0.005	413.67	0.001	435.50	0.000	457.33	0.000	479.17	0.000
20.83	16.931	42.67	59.702	64.50	59.964	86.33	35.547	108.17	25.445	130.00	8.030	151.83	3.657	173.67	3.383	195.50	2.990	217.33	2.626	239.17	2.282	261.00	1.478	282.83	0.842	304.67	0.423	326.50	0.169	348.33	0.062	370.17	0.020	392.00	0.005	413.83	0.001	435.67	0.000	457.50	0.000	479.33	0.000
21.00	16.999	42.83	59.078	64.67	59.811	86.50	35.428	108.33	25.372	130.17	7.900	152.00	3.654	173.83	3.380	195.67	2.986	217.50	2.623	239.33	2.278	261.17	1.472	283.00	0.839	304.83	0.419	326.67	0.168	348.50	0.062	370.33	0.020	392.17	0.005	414.00	0.001	435.83	0.000	457.67	0.000	479.50	0.000
21.17	17.044	43.00	58.471	64.83	59.699	86.67	35.245	108.50	25.301	130.33	7.774	152.17	3.651	174.00	3.377	195.83	2.982	217.67	2.621	239.50	2.274	261.33	1.465	283.17	0.836	305.00	0.415	326.83	0.166	348.67	0.061	370.50	0.019	392.33	0.005	414.17	0.001	436.00	0.000	457.83	0.000	479.67	0.000
21.33	17.081	43.17	57.881	65.00	59.633	86.83	35.129	108.67	25.231	130.50	7.651	152.33	3.648	174.17	3.374	196.00	2.978	217.83	2.618	239.67	2.270	261.50	1.459	283.33	0.832	305.17	0.412	327.00	0.165	348.83	0.061	370.67	0.019	392.50	0.005	414.33	0.001	436.17	0.000	458.00	0.000	479.83	0.000
21.50	17.120	43.33	57.317	65.17	59.550	87.00	35.021	108.83	25.193	130.67	7.531	152.50	3.645	174.33	3.375	196.17	2.975	218.00	2.617	239.83	2.266	261.67	1.453	283.50	0.829	305.33	0.409	327.17	0.164	349.00	0.060	370.83	0.019	392.67	0.005	414.50	0.001	436.33	0.000	458.17	0.000	480.00	0.000
21.67	17.152	43.50	56.756	65.33	59.428	87.17	34.862	109.00	25.152	130.83	7.415	152.67	3.643	174.50	3.376	196.33	2.971	218.17	2.616	240.00	2.261	261.83	1.446	283.67	0.826	305.50	0.405	327.33	0.163	349.17	0.060	371.00	0.019	392.83	0.005	414.67	0.001	436.50	0.000	458.33	0.000	480.17	0.000

N1 (JR SUMMER)



Hydrograph Statistics:

Legend	Filename & Comment	Time Step (min)	Drainage Area (ha)	Peak Flow (cms)	Time to Peak (hrs)	Runoff Volume (mm)	Runoff Volume (cu.m)	Duration of flow (hrs)	Average flow (cms)
——●	H-N1.100 : total outflow of Jock River	10.00	55474.00	156.926	33.500	39.23	2.176E+07	300.000	20.150

Hydrograph Table:

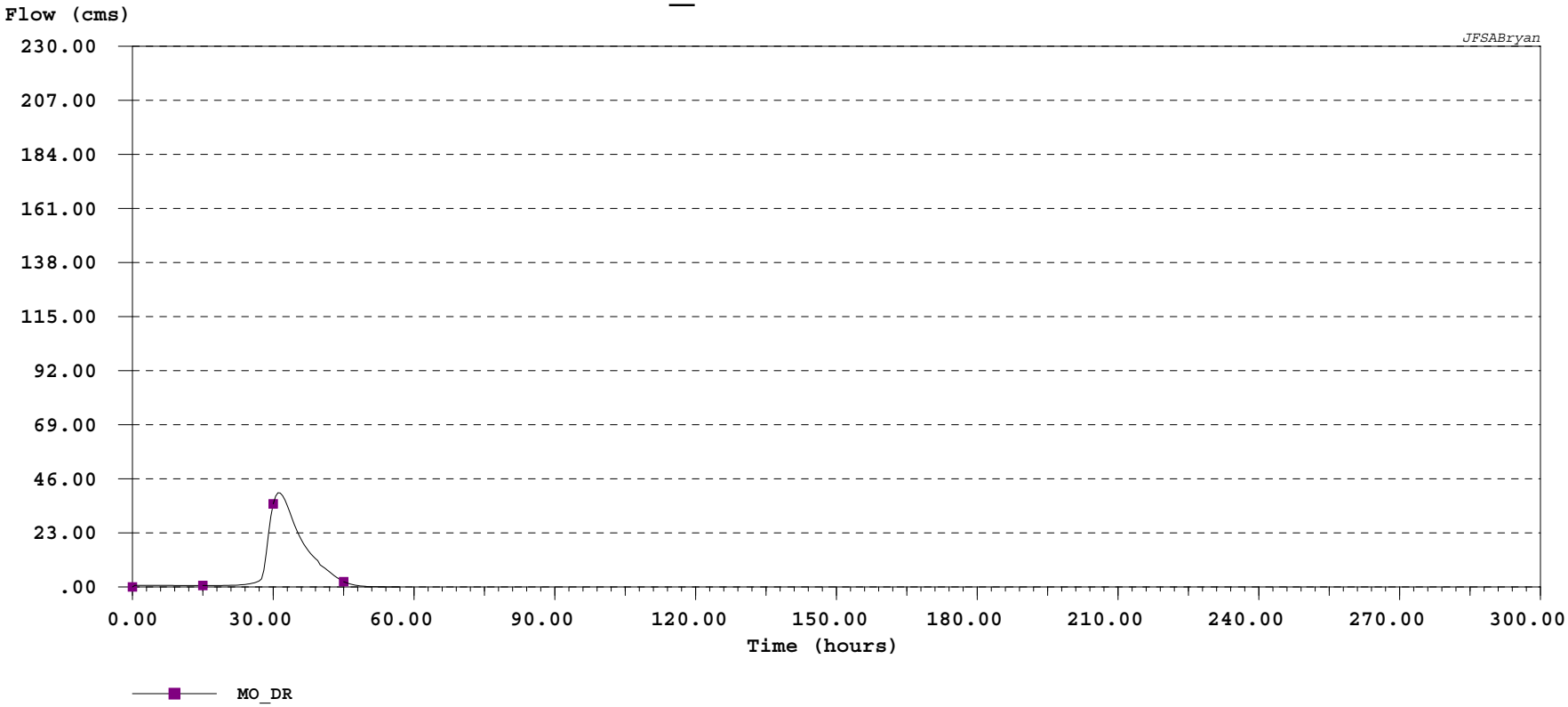
Hydrograph Filename : Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\JRSUMM~1\H-N1.100
Comment in file : total outflow of Jock River

TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
0.00	0.000	22.50	14.935	45.00	71.215	67.50	58.845	90.00	35.199	112.50	24.931	135.00	8.133	157.50	3.861
0.17	0.252	22.67	15.131	45.17	70.228	67.67	58.786	90.17	35.093	112.67	24.864	135.17	8.042	157.67	3.856
0.33	0.508	22.83	15.323	45.33	69.272	67.83	58.701	90.33	34.968	112.83	24.798	135.33	7.952	157.83	3.851
0.50	0.769	23.00	15.509	45.50	68.332	68.00	58.588	90.50	34.836	113.00	24.749	135.50	7.864	158.00	3.845
0.67	0.782	23.17	15.695	45.67	67.441	68.17	58.474	90.67	34.724	113.17	24.703	135.67	7.778	158.17	3.840
0.83	0.795	23.33	15.876	45.83	66.577	68.33	58.385	90.83	34.613	113.33	24.654	135.83	7.695	158.33	3.832
1.00	0.809	23.50	16.053	46.00	65.732	68.50	58.317	91.00	34.499	113.50	24.589	136.00	7.614	158.50	3.825
1.17	0.823	23.67	16.225	46.17	64.933	68.67	58.212	91.17	34.387	113.67	24.524	136.17	7.534	158.67	3.820
1.33	0.838	23.83	16.403	46.33	64.162	68.83	58.078	91.33	34.281	113.83	24.475	136.33	7.456	158.83	3.815
1.50	0.853	24.00	16.588	46.50	63.401	69.00	57.969	91.50	34.172	114.00	24.431	136.50	7.380	159.00	3.810
1.67	0.868	24.17	16.762	46.67	62.692	69.17	57.877	91.67	34.060	114.17	24.382	136.67	7.304	159.17	3.805
1.83	0.884	24.33	16.943	46.83	62.035	69.33	57.755	91.83	33.956	114.33	24.318	136.83	7.229	159.33	3.800
2.00	0.901	24.50	17.121	47.00	61.382	69.50	57.610	92.00	33.851	114.50	24.255	137.00	7.157	159.50	3.794
2.17	0.918	24.67	17.311	47.17	60.756	69.67	57.493	92.17	33.743	114.67	24.207	137.17	7.088	159.67	3.787
2.33	0.936	24.83	17.501	47.33	60.169	69.83	57.396	92.33	33.647	114.83	24.163	137.33	7.018	159.83	3.783
2.50	0.954	25.00	17.691	47.50	59.617	70.00	57.265	92.50	33.555	115.00	24.115	137.50	6.949	160.00	3.778
2.67	0.973	25.17	17.895	47.67	59.070	70.17	57.109	92.67	33.455	115.17	24.052	137.67	6.885	160.17	3.773
2.83	0.993	25.33	18.103	47.83	58.529	70.33	56.982	92.83	33.346	115.33	23.990	137.83	6.822	160.33	3.769
3.00	1.013	25.50	18.312	48.00	58.015	70.50	56.874	93.00	33.245	115.50	23.943	138.00	6.760	160.50	3.764
3.17	1.034	25.67	18.542	48.17	57.561	70.67	56.736	93.17	33.163	115.67	23.900	138.17	6.699	160.67	3.760
3.33	1.055	25.83	18.789	48.33	57.138	70.83	56.572	93.33	33.075	115.83	23.853	138.33	6.639	160.83	3.754
3.50	1.077	26.00	19.019	48.50	56.738	71.00	56.434	93.50	32.971	116.00	23.791	138.50	6.580	161.00	3.749
3.67	1.099	26.17	19.294	48.67	56.380	71.17	56.318	93.67	32.867	116.17	23.730	138.67	6.523	161.17	3.745
3.83	1.122	26.33	19.593	48.83	56.045	71.33	56.175	93.83	32.781	116.33	23.684	138.83	6.466	161.33	3.741
4.00	1.146	26.50	19.889	49.00	55.728	71.50	56.005	94.00	32.704	116.50	23.641	139.00	6.411	161.50	3.737
4.17	1.170	26.67	20.244	49.17	55.439	71.67	55.858	94.17	32.611	116.67	23.594	139.17	6.350	161.67	3.733
4.33	1.194	26.83	20.625	49.33	55.172	71.83	55.731	94.33	32.512	116.83	23.534	139.33	6.286	161.83	3.729
4.50	1.219	27.00	21.022	49.50	54.910	72.00	55.576	94.50	32.422	117.00	23.474	139.50	6.232	162.00	3.725
4.67	1.244	27.17	21.613	49.67	54.658	72.17	55.400	94.67	32.340	117.17	23.428	139.67	6.175	162.17	3.721
4.83	1.269	27.33	22.256	49.83	54.444	72.33	55.247	94.83	32.258	117.33	23.385	139.83	6.116	162.33	3.716
5.00	1.294	27.50	22.928	50.00	54.264	72.50	55.113	95.00	32.170	117.50	23.339	140.00	6.065	162.50	3.710
5.17	1.320	27.67	24.765	50.17	54.089	72.67	54.952	95.17	32.084	117.67	23.279	140.17	6.012	162.67	3.706
5.33	1.346	27.83	27.117	50.33	53.911	72.83	54.784	95.33	31.997	117.83	23.219	140.33	5.961	162.83	3.703
5.50	1.372	28.00	29.678	50.50	53.766	73.00	54.629	95.50	31.911	118.00	23.171	140.50	5.911	163.00	3.699
5.67	1.398	28.17	33.629	50.67	53.647	73.17	54.456	95.67	31.832	118.17	23.127	140.67	5.861	163.17	3.695
5.83	1.424	28.33	37.996	50.83	53.528	73.33	54.287	95.83	31.756	118.33	23.078	140.83	5.812	163.33	3.691
6.00	1.451	28.50	42.696	51.00	53.438	73.50	54.133	96.00	31.673	118.50	23.017	141.00	5.766	163.50	3.688
6.17	1.477	28.67	48.040	51.17	53.367	73.67	53.958	96.17	31.583	118.67	22.956	141.17	5.720	163.67	3.684
6.33	1.503	28.83	53.680	51.33	53.291	73.83	53.782	96.33	31.500	118.83	22.908	141.33	5.675	163.83	3.681
6.50	1.530	29.00	59.675	51.50	53.246	74.00	53.620	96.50	31.432	119.00	22.863	141.50	5.632	164.00	3.676
6.67	1.556	29.17	65.743	51.67	53.220	74.17	53.437	96.67	31.359	119.17	22.815	141.67	5.588	164.17	3.671
6.83	1.583	29.33	71.936	51.83	53.187	74.33	53.254	96.83	31.279	119.33	22.755	141.83	5.546	164.33	3.668
7.00	1.609	29.50	78.392	52.00	53.185	74.50	53.086	97.00	31.190	119.50	22.695	142.00	5.506	164.50	3.665
7.17	1.637	29.67	84.469	52.17	53.199	74.67	52.900	97.17	31.108	119.67	22.648	142.17	5.466	164.67	3.662
7.33	1.665	29.83	90.502	52.33	53.203	74.83	52.714	97.33	31.042	119.83	22.603	142.33	5.426	164.83	3.658
7.50	1.695	30.00	96.699	52.50	53.238	75.00	52.541	97.50	30.971	120.00	22.554	142.50	5.389	165.00	3.655
7.67	1.725	30.17	102.389	52.67	53.287	75.17	52.344	97.67	30.893	120.17	22.490	142.67	5.351	165.17	3.652
7.83	1.755	30.33	107.946	52.83	53.321	75.33	52.142	97.83	30.807	120.33	22.426	142.83	5.314	165.33	3.649
8.00	1.785	30.50	113.474	53.00	53.386	75.50	51.953	98.00	30.727	120.50	22.369	143.00	5.278	165.50	3.645
8.17	1.815	30.67	118.381	53.17	53.462	75.67	51.741	98.17	30.663	120.67	22.302	143.17	5.244	165.67	3.642
8.33	1.846	30.83	123.096	53.33	53.523	75.83	51.532	98.33	30.593	120.83	22.220	143.33	5.210	165.83	3.637
8.50	1.877	31.00	127.675	53.50	53.613	76.00	51.342	98.50	30.517	121.00	22.133	143.50	5.176	166.00	3.633
8.67	1.908	31.17	131.595	53.67	53.713	76.17	51.130	98.67	30.434	121.17	22.047	143.67	5.143	166.17	3.630
8.83	1.939	31.33	135.311	53.83	53.797	76.33	50.920	98.83	30.356	121.33	21.942	143.83	5.112	166.33	3.626
9.00	1.971	31.50	138.897	54.00	53.909	76.50	50.728	99.00	30.294	121.50	21.831	144.00	5.081	166.50	3.623
9.17	2.004	31.67	141.883	54.17	54.031	76.67	50.516	99.17	30.225	121.67	21.716	144.17	5.050	166.67	3.620
9.33	2.037	31.83	144.606	54.33	54.131	76.83	50.305	99.33	30.151	121.83	21.593	144.33	5.019	166.83	3.617
9.50	2.070	32.00	147.145	54.50	54.254	77.00	50.113	99.50	30.069	122.00	21.461	144.50	4.991	167.00	3.614
9.67	2.104	32.17	149.174	54.67	54.388	77.17	49.900	99.67	29.994	122.17	21.319	144.67	4.962	167.17	3.612
9.83	2.140	32.33	150.998	54.83	54.505	77.33	49.689	99.83	29.932	122.33	21.166	144.83	4.934	167.33	3.609
10.00	2.175	32.50	152.693	55.00	54.642	77.50	49.496	100.00	29.866	122.50	21.008	145.00	4.906	167.50	3.606
10.17	2.211	32.67	153.937	55.17	54.785	77.67	49.273	100.17	29.793	122.67	20.833	145.17	4.879	167.67	3.603
10.33	2.245	32.83	154.944	55.33	54.909	77.83	49.053	100.33	29.713	122.83	20.625	145.33	4.853	167.83	3.599
10.50	2.278	33.00	155.811	55.50	55.055	78.00	48.855	100.50	29.640	123.00	20.408	145.50	4.828	168.00	3.595
10.67	2.311	33.17	156.347	55.67	55.206	78.17	48.624	100.67	29.579	123.17	20.190	145.67	4.802	168.17	3.592
10.83	2.344	33.33	156.722	55.83	55.337	78.33	48.394	100.83	29.514	123.33	19.972	145.83	4.777	168.33	3.589
11.00	2.378	33.50	156.926	56.00	55.487	78.50	48.197	101.00	29.443	123.50	19.754	146.00	4.752	168.50	3.586
11.17	2.413	33.67	156.893	56.17	55.646	78.67	47.970	101.17	29.365	123.67	19.536	146.17	4.729	168.67	3.583
11.33	2.450	33.83	156.747	56.33	55.789	78.83	47.743	101.33	29.293	123.83	19.319	146.33	4.707	168.83	3.580
11.50	2.487	34.00	156.459	56.50	55.937	79.00	47.544	101.50	29.233	124.00	19.104	146.50	4.686	169.00	3.577
11.67	2.525	34.17	155.971	56.67	56.098	79.17	47.318	101.67	29.169	124.17	18.891	146.67	4.663	169.17	3.574
11.83	2.565	34.33	155.326	56.83	56.247	79.33	47.093	101.83	29.100	124.33	18.679	146.83	4.639	169.33	3.571
12.00	2.606	34.50	154.601	57.00	56.378	79.50	46.896	102.00	29.024	124.50	18.464	147.00	4.620	169.50	3.568
12.17	2.649	34.67	153.817	57.17	56.520	79.67	46.672	102.17	28.953	124.67	18.239	147.17	4.598	169.67	3.566
12.33	2.694	34.83	152.952	57.33	56.679	79.83	46.450	102.33	28.895	124.83	18.008	147.33	4.576	169.83	3.563
12.50	2.742	35.00	151.983	57.50	56.844	80.00	46.253	102.50	28.832	125.00	17.772	147.50	4.559	170.00	3.559
12.67	2.792	35.17	151.005	57.67	56.989	80.17	46.030	102.67	28.764	125.17	17.530	147.67	4.539	170.17	3.556
12.83	2.846	35.33	149.994	57.83	57.102	80.33	45.809	102.83	28.689	125.33	17.289	147.83	4.518	170.33	3.553
13.00	2.905	35.50	148.839	58.00	57.226	80.50	45.614	103.00	28.618	125.50	17.055	148.00	4.501	170.50	3.550
13.17	2.968	35.67	147.628	58.17	57.369	80.67	45.394	103.17	28.557	125.67	16.831	148.17	4.481	170.67	3.548
13.33	3.036	35.83	146.408	58.33	57.520	80.83	45.177	103.33	28.489	125.83	16.615	148.33	4.462	170.83	3.545
13.50	3.110	36.00	145.181	58.50	57.675	81.00	44.982	103.50	28.415	126.00	16.403	148.50	4.445	171.00	3.542
13.67	3.192	36.17	143.880	58.67	57.801	81.17	44.765	103.67	28.334	126.17	16.193	148.67	4.427	171.17	3.539
13.83	3.280	36.33	142.538	58.83	57.899	81.33	44.550	103.83	28.260	126.33	15.987	148.83	4.409	171.33	3.536
14.00	3.378	36.50	141.216	59.00	58.011	81.50	44.359	104.00	28.199	126.50	15.784	149.00	4.395	171.50	3.534
14.17	3.486	36.67	139.844	59.17	58.139	81.67	44.142	104.17	28.132	126.67	15.584	149.17	4.378	171.67	3.531
14.33	3.609	36.83	138.452	59.33	58.259	81.83	43.927	104.33	28.058	126.83	15.387	149.33	4.361	171.83	3.527
14.50	3.750	37.00	137.097	59.50	58.373	82.00	43.736	104.50	27.978	127.00	15.188	149.50	4.347	172.00	3.523
14.67	3.896	37.17	135.725	59.67	58.489	82.17	43.521	104.67	27.905	127.17	14.978	149.67	4.331	172.17	3.521
14.83	4.023	37.33	134.304	59.83	58.605	82.33	43.308	104.83	27.847	127.33	14.761	149.83	4.315	172.33	3.519
15.00	4.141	37.50	132.880	60.00	58.718	82.50	43.116	105.00	27.782	127.50	14.549	150.00	4.301	172.50	3.516
15.17	4.269	37.67	131.512	60.17	58.804	82.67	42.903	105.17	27.710	127.67	14.343	150.17	4.286	172.67	3.513
15.33	4.405	37.83	130.124	60.33	58.866	82.83	42.691	105.33	27.633	127.83	14.141	150.33	4.271	172.83	3.511
15.50	4.552	38.00	128.712	60.50	58.948	83.00	42.500	105.50	27.562	128.00	13.945	150.50	4.258	173.00	3.508
15.67	4.711	38.17	127.343	60.67	59.046	83.17	42.287	105.67	27.504	128.17	13.753	150.67	4.245	173.17	3.505
15.83	4.882	38.33	125.970	60.83	59.136	83.33	42.074	105.83	27.440	128.33	13.565	150.83	4.231	173.33	3.503
16.00	5.067	38.50	124.547	61.00	59.218	83.50	41.881	106.00	27.370	128.50	13.381	151.00	4.217	173.50	3.500
16.17	5.268	38.67	123.147	61.17	59.294	83.67	41.669	106.17	27.291	128.67	13.200	151.17	4.206	173.67	3.497
16.33	5.484	38.83	121.751	61.33	59.366	83.83	41.457	106.33	27.219	128.83	13.023	151.33	4.195	173.83	3.494
16.50	5.715	39.00	120.357	61.50	59.432	84.00	41.267	106.50	27.162	129.00	12.850	151.50	4.181	174.00	3.490
16.67	5.957	39.17	119.027	61.67	59.490	84.17	41.056	106.67	27.100	129.17	12.679	151.67	4.168	174.17	3.486
16.83	6.202	39.33	117.716	61.83	59.542	84.33	40.841	106.83	27.032	129.33	12.509	151.83	4.157	174.33	3.484
17.00	6.455	39.50	116.406	62.00	59.588	84.50	40.636	107.00	26.948	129.50	12.341	152.00	4.146	174.50	3.482
17.17	6.719	39.67	114.582	62.17	59.629	84.67	40.419	107.17	26.870	129.67	12.176	152.17	4.134	174.67	3.480
17.33	6.993	39.83	112.616	62.33	59.665	84.83	40.207	107.33	26.816	129.83	12.015	152.33	4.121	174.83	3.477
17.50	7.274	40.00	110.545	62.50	59.695	85.00	40.012	107.50	26.756	130.00	11.859	152.50	4.111	175.00	3.474
17.67	7.543	40.17	108.986	62.67	59.721	85.17	39.808	107.67	26.678	130.17	11.708	152.67	4.101	175.17	3.472
17.83	7.802	40.33	107.574	62.83	59.741	85.33	39.605	107.83	26.601	130.33	11.561	152.83	4.090	175.33	3.469
18.00	8.066	40.50	106.183	63.00	59.756	85.50	39.418	108.00	26.542	130.50	11.418	153.00	4.078	175.50	3.466
18.17	8.339	40.67	104.788	63.17	59.767	85.67	39.225	108.17	26.490	130.67	11.277	153.17	4.069	175.67	3.464
18.33	8.619	40.83	103.409	63.33	59.773	85.83	39.032	108.33	26.432	130.83	11.136	153.33	4.060	175.83	3.461
18.50	8.901	41.00	102.007	63.50	59.774	86.00	38.852	108.50	26.354	131.00	10.994	153.50	4.049	176.00	3.458
18.67	9.186	41.17	100.557	63.67	59.773	86.17	38.668	108.67	26.276	131.17	10.855	153.67	4.038	176.17	3.454
18.83	9.473	41.33	99.107	63.83	59.772	86.33	38.487	108.83	26.220	131.33	10.719	153.83	4.030	176.33	3.450
19.00	9.760	41.50	97.673	64.00	59.771	86.50	38.320	109.00	26.169	131.50	10.585	154.00	4.022	176.50	3.448
19.17	10.047	41.67	96.252	64.17	59.762	86.67	38.147	109.17	26.113	131.67	10.455	154.17	4.014	176.67	3.446
19.33	10.334	41.83	94.842	64.33	59.766	86.83	37.973	109.33	26.038	131.83	10.328	154.33	4.004	176.83	3.444
19.50	10.618	42.00	93.443	64.50	59.779	87.00	37.814	109.50	25.963	132.00	10.203	154.50	3.994	177.00	3.441
19.67	10.903	42.17	92.058	64.67	59.759	87.17	37.652	109.67	25.909	132.17	10.080	154.67	3.986	177.17	3.438
19.83	11.185	42.33	90.676	64.83	59.718	87.33	37.480	109.83	25.859	132.33	9.961	154.83	3.978	177.33	3.436
20.00	11.464	42.50	89.307	65.00	59.688	87.50	37.319	110.00	25.805	132.50	9.837	155.00	3.971	177.50	3.433
20.17	11.740	42.67	87.974	65.17	59.660	87.67	37.166	110.17	25.732	132.67	9.705	155.17	3.962	177.67	3.430
20.33	12.012	42.83	86.655	65.33	59.620	87.83	36.994	110.33	25.660	132.83	9.571	155.33	3.953	177.83	3.428
20.50	12.272	43.00	85.338	65.50	59.569	88.00	36.835	110.50	25.607	133.00	9.441	155.50	3.945	178.00	3.425
20.67	12.522	43.17	84.056	65.67	59.534	88.17	36.703	110.67	25.559	133.17	9.315	155.67	3.938	178.17	3.422
20.83	12.765	43.33	82.796	65.83	59.517	88.33	36.552	110.83	25.506	133.33	9.192	155.83	3.931	178.33	3.418
21.00	13.002	43.50	81.534	66.00	59.476	88.50	36.394	111.00	25.435	133.50	9.073	156.00	3.925	178.50	3.414
21.17	13.236	43.67	80.286	66.17	59.419	88.67	36.259	111.17	25.365	133.67	8.957	156.17	3.916	178.67	3.412
21.33	13.463	43.83	79.050	66.33	59.356	88.83	36.122	111.33	25.314	133.83	8.844	156.33	3.908	178.83	3.410
21.50	13.685	44.00	77.832	66.50	59.276	89.00	35.979	111.50	25.267	134.00	8.735	156.50	3.901	179.00	3.408
21.67	13.906	44.17	76.666	66.67	59.212	89.17	35.844	111.67	25.215	134.17	8.628	156.67	3.895	179.17	3.405
21.83	14.121	44.33	75.524	66.83	59.174	89.33	35.710	111.83	25.146	134.33	8.524	156.83	3.888	179.33	3.402
22.00	14.330	44.50	74.397	67.00	59.116	89.50	35.584	112.00	25.078	134.50	8.423	157.00	3.882	179.50	3.400
22.17	14.537	44.67	73.316	67.17	59.029	89.67	35.463	112.17	25.028	134.67	8.324	157.17	3.874	179.67	3.397
22.33	14.739	44.83	72.257	67.33	58.927	89.83	35.325	112.33	24.982	134.83	8.227	157.33	3.867	179.83	3.394

TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
180.00	3.392	202.50	2.949	225.00	2.573	247.50	2.168	270.00	1.437	292.50	0.888	315.00	0.477	337.50	0.209
180.17	3.389	202.67	2.942	225.17	2.572	247.67	2.164	270.17	1.431	292.67	0.885	315.17	0.475	337.67	0.208
180.33	3.386	202.83	2.939	225.33	2.570	247.83	2.160	270.33	1.427	292.83	0.882	315.33	0.472	337.83	0.207
180.50	3.382	203.00	2.936	225.50	2.569	248.00	2.154	270.50	1.421	293.00	0.879	315.50	0.469	338.00	0.205
180.67	3.379	203.17	2.933	225.67	2.567	248.17	2.147	270.67	1.416	293.17	0.876	315.67	0.467	338.17	0.204
180.83	3.377	203.33	2.930	225.83	2.565	248.33	2.143	270.83	1.411	293.33	0.872	315.83	0.464	338.33	0.203
181.00	3.374	203.50	2.927	226.00	2.563	248.50	2.139	271.00	1.406	293.50	0.869	316.00	0.461	338.50	0.201
181.17	3.372	203.67	2.925	226.17	2.561	248.67	2.135	271.17	1.400	293.67	0.867	316.17	0.459	338.67	0.200
181.33	3.369	203.83	2.919	226.33	2.559	248.83	2.129	271.33	1.396	293.83	0.863	316.33	0.456	338.83	0.199
181.50	3.366	204.00	2.913	226.50	2.557	249.00	2.122	271.50	1.390	294.00	0.860	316.50	0.453	339.00	0.197
181.67	3.364	204.17	2.910	226.67	2.555	249.17	2.118	271.67	1.385	294.17	0.857	316.67	0.451	339.17	0.196
181.83	3.361	204.33	2.907	226.83	2.551	249.33	2.114	271.83	1.381	294.33	0.854	316.83	0.448	339.33	0.195
182.00	3.358	204.50	2.904	227.00	2.546	249.50	2.109	272.00	1.375	294.50	0.851	317.00	0.446	339.50	0.194
182.17	3.355	204.67	2.902	227.17	2.544	249.67	2.103	272.17	1.370	294.67	0.848	317.17	0.443	339.67	0.192
182.33	3.353	204.83	2.899	227.33	2.543	249.83	2.097	272.33	1.365	294.83	0.845	317.33	0.441	339.83	0.191
182.50	3.350	205.00	2.896	227.50	2.541	250.00	2.092	272.50	1.360	295.00	0.842	317.50	0.438	340.00	0.190
182.67	3.346	205.17	2.890	227.67	2.539	250.17	2.088	272.67	1.355	295.17	0.839	317.67	0.435	340.17	0.188
182.83	3.343	205.33	2.884	227.83	2.537	250.33	2.082	272.83	1.351	295.33	0.836	317.83	0.433	340.33	0.187
183.00	3.341	205.50	2.882	228.00	2.535	250.50	2.076	273.00	1.345	295.50	0.833	318.00	0.430	340.50	0.186
183.17	3.338	205.67	2.879	228.17	2.533	250.67	2.071	273.17	1.340	295.67	0.830	318.17	0.428	340.67	0.185
183.33	3.335	205.83	2.877	228.33	2.532	250.83	2.067	273.33	1.336	295.83	0.827	318.33	0.425	340.83	0.184
183.50	3.333	206.00	2.874	228.50	2.530	251.00	2.061	273.50	1.331	296.00	0.824	318.50	0.423	341.00	0.182
183.67	3.330	206.17	2.872	228.67	2.525	251.17	2.055	273.67	1.326	296.17	0.821	318.67	0.421	341.17	0.181
183.83	3.327	206.33	2.869	228.83	2.520	251.33	2.050	273.83	1.321	296.33	0.818	318.83	0.418	341.33	0.180
184.00	3.324	206.50	2.867	229.00	2.519	251.50	2.046	274.00	1.316	296.50	0.815	319.00	0.416	341.50	0.179
184.17	3.322	206.67	2.861	229.17	2.517	251.67	2.040	274.17	1.311	296.67	0.812	319.17	0.413	341.67	0.177
184.33	3.319	206.83	2.854	229.33	2.516	251.83	2.033	274.33	1.307	296.83	0.809	319.33	0.411	341.83	0.176
184.50	3.316	207.00	2.852	229.50	2.514	252.00	2.029	274.50	1.302	297.00	0.806	319.50	0.408	342.00	0.175
184.67	3.313	207.17	2.851	229.67	2.512	252.17	2.024	274.67	1.297	297.17	0.803	319.67	0.406	342.17	0.174
184.83	3.309	207.33	2.849	229.83	2.510	252.33	2.018	274.83	1.293	297.33	0.799	319.83	0.404	342.33	0.173
185.00	3.307	207.50	2.846	230.00	2.508	252.50	2.012	275.00	1.288	297.50	0.796	320.00	0.401	342.50	0.172
185.17	3.304	207.67	2.844	230.17	2.506	252.67	2.007	275.17	1.283	297.67	0.793	320.17	0.399	342.67	0.170
185.33	3.302	207.83	2.842	230.33	2.504	252.83	2.003	275.33	1.279	297.83	0.790	320.33	0.397	342.83	0.169
185.50	3.299	208.00	2.839	230.50	2.500	253.00	1.997	275.50	1.274	298.00	0.787	320.50	0.394	343.00	0.168
185.67	3.296	208.17	2.837	230.67	2.495	253.17	1.990	275.67	1.269	298.17	0.784	320.67	0.392	343.17	0.167
185.83	3.293	208.33	2.831	230.83	2.493	253.33	1.986	275.83	1.265	298.33	0.781	320.83	0.390	343.33	0.166
186.00	3.291	208.50	2.825	231.00	2.492	253.50	1.981	276.00	1.260	298.50	0.778	321.00	0.387	343.50	0.165
186.17	3.288	208.67	2.823	231.17	2.490	253.67	1.975	276.17	1.255	298.67	0.775	321.17	0.385	343.67	0.164
186.33	3.285	208.83	2.821	231.33	2.488	253.83	1.969	276.33	1.251	298.83	0.772	321.33	0.383	343.83	0.162
186.50	3.283	209.00	2.819	231.50	2.487	254.00	1.964	276.50	1.247	299.00	0.769	321.50	0.380	344.00	0.161
186.67	3.279	209.17	2.817	231.67	2.485	254.17	1.959	276.67	1.242	299.17	0.766	321.67	0.378	344.17	0.160
186.83	3.276	209.33	2.815	231.83	2.483	254.33	1.953	276.83	1.238	299.33	0.763	321.83	0.376	344.33	0.159
187.00	3.273	209.50	2.813	232.00	2.481	254.50	1.947	277.00	1.233	299.50	0.760	322.00	0.374	344.50	0.158
187.17	3.270	209.67	2.810	232.17	2.479	254.67	1.942	277.17	1.229	299.67	0.757	322.17	0.372	344.67	0.157
187.33	3.267	209.83	2.808	232.33	2.474	254.83	1.937	277.33	1.224	299.83	0.754	322.33	0.369	344.83	0.156
187.50	3.265	210.00	2.802	232.50	2.470	255.00	1.931	277.50	1.220	300.00	0.751	322.50	0.367	345.00	0.155
187.67	3.262	210.17	2.796	232.67	2.468	255.17	1.925	277.67	1.215	300.17	0.748	322.67	0.365	345.17	0.154
187.83	3.259	210.33	2.794	232.83	2.466	255.33	1.920	277.83	1.211	300.33	0.745	322.83	0.363	345.33	0.153
188.00	3.256	210.50	2.792	233.00	2.464	255.50	1.915	278.00	1.207	300.50	0.742	323.00	0.361	345.50	0.152
188.17	3.253	210.67	2.790	233.17	2.462	255.67	1.909	278.17	1.202	300.67	0.739	323.17	0.358	345.67	0.151
188.33	3.251	210.83	2.789	233.33	2.460	255.83	1.903	278.33	1.198	300.83	0.736	323.33	0.356	345.83	0.150
188.50	3.249	211.00	2.787	233.50	2.458	256.00	1.898	278.50	1.194	301.00	0.733	323.50	0.354	346.00	0.148
188.67	3.245	211.17	2.785	233.67	2.456	256.17	1.893	278.67	1.190	301.17	0.730	323.67	0.352	346.17	0.147
188.83	3.241	211.33	2.782	233.83	2.454	256.33	1.887	278.83	1.186	301.33	0.726	323.83	0.350	346.33	0.146
189.00	3.238	211.50	2.780	234.00	2.452	256.50	1.881	279.00	1.181	301.50	0.724	324.00	0.348	346.50	0.145
189.17	3.235	211.67	2.778	234.17	2.448	256.67	1.876	279.17	1.177	301.67	0.721	324.17	0.346	346.67	0.144
189.33	3.232	211.83	2.772	234.33	2.443	256.83	1.871	279.33	1.173	301.83	0.717	324.33	0.344	346.83	0.143
189.50	3.229	212.00	2.766	234.50	2.441	257.00	1.865	279.50	1.169	302.00	0.714	324.50	0.342	347.00	0.142
189.67	3.227	212.17	2.764	234.67	2.439	257.17	1.859	279.67	1.164	302.17	0.712	324.67	0.340	347.17	0.141
189.83	3.224	212.33	2.762	234.83	2.437	257.33	1.854	279.83	1.161	302.33	0.708	324.83	0.338	347.33	0.140
190.00	3.221	212.50	2.760	235.00	2.435	257.50	1.849	280.00	1.156	302.50	0.705	325.00	0.336	347.50	0.139
190.17	3.219	212.67	2.759	235.17	2.433	257.67	1.843	280.17	1.152	302.67	0.702	325.17	0.334	347.67	0.138
190.33	3.216	212.83	2.757	235.33	2.431	257.83	1.837	280.33	1.148	302.83	0.699	325.33	0.331	347.83	0.137
190.50	3.212	213.00	2.755	235.50	2.429	258.00	1.832	280.50	1.144	303.00	0.696	325.50	0.329	348.00	0.137
190.67	3.208	213.17	2.753	235.67	2.427	258.17	1.827	280.67	1.140	303.17	0.693	325.67	0.327	348.17	0.136
190.83	3.205	213.33	2.751	235.83	2.422	258.33	1.821	280.83	1.136	303.33	0.690	325.83	0.326	348.33	0.135
191.00	3.202	213.50	2.749	236.00	2.417	258.50	1.814	281.00	1.132	303.50	0.687	326.00	0.324	348.50	0.134
191.17	3.199	213.67	2.743	236.17	2.415	258.67	1.810	281.17	1.129	303.67	0.684	326.17	0.322	348.67	0.133
191.33	3.196	213.83	2.737	236.33	2.413	258.83	1.805	281.33	1.125	303.83	0.681	326.33	0.320	348.83	0.132
191.50	3.193	214.00	2.735	236.50	2.411	259.00	1.798	281.50	1.121	304.00	0.678	326.50	0.318	349.00	0.131
191.67	3.191	214.17	2.733	236.67	2.409	259.17	1.792	281.67	1.117	304.17	0.675	326.67	0.316	349.17	0.130
191.83	3.188	214.33	2.731	236.83	2.407	259.33	1.787	281.83	1.114	304.33	0.671	326.83	0.314	349.33	0.129
192.00	3.185	214.50	2.730	237.00	2.405	259.50	1.783	282.00	1.110	304.50	0.668	327.00	0.312	349.50	0.128
192.17	3.182	214.67	2.728	237.17	2.402	259.67	1.776	282.17	1.106	304.67	0.665	327.17	0.310	349.67	0.127
192.33	3.178	214.83	2.726	237.33	2.398	259.83	1.770	282.33	1.102	304.83	0.662	327.33	0.308	349.83	0.126
192.50	3.174	215.00	2.724	237.50	2.393	260.00	1.765	282.50	1.099	305.00	0.659	327.50	0.306	350.00	0.125
192.67	3.171	215.17	2.722	237.67	2.391	260.17	1.760	282.67	1.095	305.17	0.656	327.67	0.304	350.17	0.125
192.83	3.168	215.33	2.720	237.83	2.388	260.33	1.754	282.83	1.091	305.33	0.652	327.83	0.302	350.33	0.124
193.00	3.164	215.50	2.714	238.00	2.386	260.50	1.748	283.00	1.088	305.50	0.649	328.00	0.301	350.50	0.123
193.17	3.160	215.67	2.709	238.17	2.384	260.67	1.743	283.17	1.084	305.67	0.646	328.17	0.299	350.67	0.122
193.33	3.156	215.83	2.707	238.33	2.382	260.83	1.738	283.33	1.080	305.83	0.643	328.33	0.297	350.83	0.121
193.50	3.154	216.00	2.705	238.50	2.379	261.00	1.732	283.50	1.076	306.00	0.640	328.50	0.295	351.00	0.120
193.67	3.150	216.17	2.703	238.67	2.377	261.17	1.726	283.67	1.073	306.17	0.637	328.67	0.293	351.17	0.119
193.83	3.145	216.33	2.702	238.83	2.372	261.33	1.721	283.83	1.069	306.33	0.633	328.83	0.292	351.33	0.119
194.00	3.140	216.50	2.700	239.00	2.367	261.50	1.716	284.00	1.065	306.50	0.630	329.00	0.290	351.50	0.118
194.17	3.136	216.67	2.698	239.17	2.365	261.67	1.710	284.17	1.062	306.67	0.627	329.17	0.288	351.67	0.117
194.33	3.132	216.83	2.696	239.33	2.362	261.83	1.704	284.33	1.058	306.83	0.624	329.33	0.286	351.83	0.116
194.50	3.128	217.00	2.694	239.50	2.360	262.00	1.699	284.50	1.055	307.00	0.621	329.50	0.284	352.00	0.115
194.67	3.124	217.17	2.692	239.67	2.357	262.17	1.693	284.67	1.051	307.17	0.618	329.67	0.283	352.17	0.114
194.83	3.120	217.33	2.687	239.83	2.355	262.33	1.687	284.83	1.047	307.33	0.614	329.83	0.281	352.33	0.114
195.00	3.117	217.50	2.681	240.00	2.352	262.50	1.682	285.00	1.044	307.50	0.611	330.00	0.279	352.50	0.113
195.17	3.115	217.67	2.679	240.17	2.347	262.67	1.678	285.17	1.040	307.67	0.608	330.17	0.277	352.67	0.112
195.33	3.110	217.83	2.678	240.33	2.342	262.83	1.672	285.33	1.037	307.83	0.605	330.33	0.276	352.83	0.111
195.50	3.105	218.00	2.676	240.50	2.340	263.00	1.665	285.50	1.033	308.00	0.602	330.50	0.274	353.00	0.110
195.67	3.101	218.17	2.674	240.67	2.337	263.17	1.661	285.67	1.029	308.17	0.599	330.67	0.272	353.17	0.110
195.83	3.098	218.33	2.673	240.83	2.334	263.33	1.655	285.83	1.026	308.33	0.595	330.83	0.271	353.33	0.109
196.00	3.094	218.50	2.671	241.00	2.331	263.50	1.649	286.00	1.022	308.50	0.592	331.00	0.269	353.50	0.108
196.17	3.090	218.67	2.669	241.17	2.329	263.67	1.644	286.17	1.019	308.67	0.589	331.17	0.267	353.67	0.107
196.33	3.086	218.83	2.667	241.33	2.326	263.83	1.639	286.33	1.015	308.83	0.586	331.33	0.265	353.83	0.106
196.50	3.083	219.00	2.665	241.50	2.321	264.00	1.633	286.50	1.012	309.00	0.583	331.50	0.264	354.00	0.106
196.67	3.079	219.17	2.660	241.67	2.315	264.17	1.627	286.67	1.008	309.17	0.580	331.67	0.262	354.17	0.105
196.83	3.076	219.33	2.654	241.83	2.312	264.33	1.622	286.83	1.005	309.33	0.577	331.83	0.261	354.33	0.104
197.00	3.073	219.50	2.652	242.00	2.310	264.50	1.617	287.00	1.001	309.50	0.574	332.00	0.259	354.50	0.103
197.17	3.069	219.67	2.651	242.17	2.307	264.67	1.611	287.17	0.997	309.67	0.571	332.17	0.257	354.67	0.103
197.33	3.065	219.83	2.649	242.33	2.304	264.83	1.606	287.33	0.994	309.83	0.568	332.33	0.256	354.83	0.102
197.50	3.061	220.00	2.647	242.50	2.301	265.00	1.600	287.50	0.991	310.00	0.564	332.50	0.254	355.00	0.101
197.67	3.058	220.17	2.646	242.67	2.295	265.17	1.594	287.67	0.987	310.17	0.561	332.67	0.252	355.17	0.100
197.83	3.054	220.33	2.644	242.83	2.290	265.33	1.589	287.83	0.984	310.33	0.558	332.83	0.251	355.33	0.100
198.00	3.051	220.50	2.642	243.00	2.287	265.50	1.583	288.00	0.980	310.50	0.555	333.00	0.249	355.50	0.099
198.17	3.047	220.67	2.640	243.17	2.284	265.67	1.577	288.17	0.976	310.67	0.552	333.17	0.248	355.67	0.098
198.33	3.043	220.83	2.638	243.33	2.280	265.83	1.572	288.33	0.973	310.83	0.549	333.33	0.246	355.83	0.098
198.50	3.041	221.00	2.633	243.50	2.277	266.00	1.566	288.50	0.970	311.00	0.546	333.50	0.245	356.00	0.097
198.67	3.038	221.17	2.628	243.67	2.272	266.17	1.560	288.67	0.966	311.17	0.543	333.67	0.243	356.17	0.096
198.83	3.034	221.33	2.626	243.83	2.266	266.33	1.555	288.83	0.963	311.33	0.540	333.83	0.241	356.33	0.095
199.00	3.031	221.50	2.624	244.00	2.263	266.50	1.549	289.00	0.959	311.50	0.537	334.00	0.240	356.50	0.095
199.17	3.027	221.67	2.622	244.17	2.260	266.67	1.544	289.17	0.956	311.67	0.534	334.17	0.238	356.67	0.094
199.33	3.024	221.83	2.621	244.33	2.256	266.83	1.539	289.33	0.952	311.83	0.531	334.33	0.237	356.83	0.093
199.50	3.020	222.00	2.619	244.50	2.253	267.00	1.533	289.50	0.949	312.00	0.528	334.50	0.235	357.00	0.093
199.67	3.013	222.17	2.617	244.67	2.247	267.17	1.527	289.67	0.945	312.17	0.526	334.67	0.234	357.17	0.092
199.83	3.006	222.33	2.615	244.83	2.242	267.33	1.523	289.83	0.942	312.33	0.523	334.83	0.232	357.33	0.091
200.00	3.003	222.50	2.614	245.00	2.238	267.50	1.517	290.00	0.939	312.50	0.520	335.00	0.231	357.50	0.091
200.17	3.001	222.67	2.612	245.17	2.235	267.67	1.511	290.17	0.935	312.67	0.517	335.17	0.229	357.67	0.090
200.33	2.999	222.83	2.610	245.33	2.231	267.83	1.506	290.33	0.932	312.83	0.514	335.33	0.228	357.83	0.089
200.50	2.996	223.00	2.604	245.50	2.225	268.00	1.501	290.50	0.928	313.00	0.511	335.50	0.226	358.00	0.089
200.67	2.993	223.17	2.599	245.67	2.219	268.17	1.495	290.67	0.925	313.17	0.508	335.67	0.225	358.17	0.088
200.83	2.989	223.33	2.597	245.83	2.216	268.33	1.490	290.83	0.922	313.33	0.505	335.83	0.224	358.33	0.087
201.00	2.982	223.50	2.596	246.00	2.212	268.50	1.485	291.00	0.918	313.50	0.502	336.00	0.222	358.50	0.087
201.17	2.974	223.67	2.594	246.17	2.208	268.67	1.479	291.17	0.915	313.67	0.500	336.17	0.221	358.67	0.086
201.33	2.971	223.83	2.593	246.33	2.202	268.83	1.474	291.33	0.912	313.83	0.497	336.33	0.219	358.83	0.085
201.50	2.968	224.00	2.591	246.50	2.196	269.00	1.468	291.50	0.908	314.00	0.494	336.50	0.218	359.00	0.085
201.67	2.966	224.17	2.589	246.67	2.192	269.17	1.463	291.67	0.905	314.17	0.491	336.67	0.216	359.17	0.084
201.83	2.963	224.33	2.587	246.83	2.188	269.33	1.458	291.83	0.902	314.33	0.488	336.83	0.215	359.33	0.084
202.00	2.961	224.50	2.585	247.00	2.184	269.50	1.453	292.00	0.898	314.50	0.486	337.00	0.214	359.50	0.083
202.17	2.959	224.67	2.583	247.17	2.178	269.67	1.447	292.17	0.895	314.67	0.483	337.17	0.212	359.67	0.082
202.33	2.957	224.83	2.578	247.33	2.172	269.83	1.442	292.33	0.892	314.83	0.480	337.33	0.211	359.83	0.082

TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
360.00	0.081	382.50	0.027	405.00	0.008	427.50	0.002	450.00	0.001	472.50	0.000
360.17	0.081	382.67	0.027	405.17	0.008	427.67	0.002	450.17	0.001	472.67	0.000
360.33	0.080	382.83	0.027	405.33	0.008	427.83	0.002	450.33	0.001	472.83	0.000
360.50	0.079	383.00	0.027	405.50	0.008	428.00	0.002	450.50	0.001	473.00	0.000
360.67	0.079	383.17	0.026	405.67	0.008	428.17	0.002	450.67	0.001	473.17	0.000
360.83	0.078	383.33	0.026	405.83	0.008	428.33	0.002	450.83	0.001	473.33	0.000
361.00	0.078	383.50	0.026	406.00	0.008	428.50	0.002	451.00	0.001	473.50	0.000
361.17	0.077	383.67	0.026	406.17	0.008	428.67	0.002	451.17	0.001	473.67	0.000
361.33	0.076	383.83	0.026	406.33	0.008	428.83	0.002	451.33	0.001	473.83	0.000
361.50	0.076	384.00	0.025	406.50	0.008	429.00	0.002	451.50	0.001	474.00	0.000
361.67	0.075	384.17	0.025	406.67	0.007	429.17	0.002	451.67	0.001	474.17	0.000
361.83	0.075	384.33	0.025	406.83	0.007	429.33	0.002	451.83	0.001	474.33	0.000
362.00	0.074	384.50	0.025	407.00	0.007	429.50	0.002	452.00	0.001	474.50	0.000
362.17	0.074	384.67	0.024	407.17	0.007	429.67	0.002	452.17	0.001	474.67	0.000
362.33	0.073	384.83	0.024	407.33	0.007	429.83	0.002	452.33	0.001	474.83	0.000
362.50	0.072	385.00	0.024	407.50	0.007	430.00	0.002	452.50	0.001	475.00	0.000
362.67	0.072	385.17	0.024	407.67	0.007	430.17	0.002	452.67	0.001	475.17	0.000
362.83	0.071	385.33	0.024	407.83	0.007	430.33	0.002	452.83	0.001	475.33	0.000
363.00	0.071	385.50	0.023	408.00	0.007	430.50	0.002	453.00	0.001	475.50	0.000
363.17	0.070	385.67	0.023	408.17	0.007	430.67	0.002	453.17	0.001	475.67	0.000
363.33	0.070	385.83	0.023	408.33	0.007	430.83	0.002	453.33	0.001	475.83	0.000
363.50	0.069	386.00	0.023	408.50	0.007	431.00	0.002	453.50	0.001	476.00	0.000
363.67	0.069	386.17	0.023	408.67	0.007	431.17	0.002	453.67	0.001	476.17	0.000
363.83	0.068	386.33	0.022	408.83	0.007	431.33	0.002	453.83	0.001	476.33	0.000
364.00	0.068	386.50	0.022	409.00	0.007	431.50	0.002	454.00	0.001	476.50	0.000
364.17	0.067	386.67	0.022	409.17	0.006	431.67	0.002	454.17	0.001	476.67	0.000
364.33	0.067	386.83	0.022	409.33	0.006	431.83	0.002	454.33	0.001	476.83	0.000
364.50	0.066	387.00	0.022	409.50	0.006	432.00	0.002	454.50	0.001	477.00	0.000
364.67	0.066	387.17	0.021	409.67	0.006	432.17	0.002	454.67	0.000	477.17	0.000
364.83	0.065	387.33	0.021	409.83	0.006	432.33	0.002	454.83	0.000	477.33	0.000
365.00	0.065	387.50	0.021	410.00	0.006	432.50	0.002	455.00	0.000	477.50	0.000
365.17	0.064	387.67	0.021	410.17	0.006	432.67	0.002	455.17	0.000	477.67	0.000
365.33	0.064	387.83	0.021	410.33	0.006	432.83	0.002	455.33	0.000	477.83	0.000
365.50	0.063	388.00	0.021	410.50	0.006	433.00	0.002	455.50	0.000	478.00	0.000
365.67	0.063	388.17	0.020	410.67	0.006	433.17	0.002	455.67	0.000	478.17	0.000
365.83	0.062	388.33	0.020	410.83	0.006	433.33	0.002	455.83	0.000	478.33	0.000
366.00	0.062	388.50	0.020	411.00	0.006	433.50	0.002	456.00	0.000	478.50	0.000
366.17	0.061	388.67	0.020	411.17	0.006	433.67	0.002	456.17	0.000	478.67	0.000
366.33	0.061	388.83	0.020	411.33	0.006	433.83	0.002	456.33	0.000	478.83	0.000
366.50	0.060	389.00	0.019	411.50	0.006	434.00	0.002	456.50	0.000	479.00	0.000
366.67	0.060	389.17	0.019	411.67	0.006	434.17	0.002	456.67	0.000	479.17	0.000
366.83	0.059	389.33	0.019	411.83	0.006	434.33	0.002	456.83	0.000	479.33	0.000
367.00	0.059	389.50	0.019	412.00	0.006	434.50	0.002	457.00	0.000	479.50	0.000
367.17	0.058	389.67	0.019	412.17	0.005	434.67	0.002	457.17	0.000	479.67	0.000
367.33	0.058	389.83	0.019	412.33	0.005	434.83	0.002	457.33	0.000	479.83	0.000
367.50	0.057	390.00	0.018	412.50	0.005	435.00	0.001	457.50	0.000	480.00	0.000
367.67	0.057	390.17	0.018	412.67	0.005	435.17	0.001	457.67	0.000	480.17	0.000
367.83	0.057	390.33	0.018	412.83	0.005	435.33	0.001	457.83	0.000	480.33	0.000
368.00	0.056	390.50	0.018	413.00	0.005	435.50	0.001	458.00	0.000	480.50	0.000
368.17	0.056	390.67	0.018	413.17	0.005	435.67	0.001	458.17	0.000	480.67	0.000
368.33	0.055	390.83	0.018	413.33	0.005	435.83	0.001	458.33	0.000	480.83	0.000
368.50	0.055	391.00	0.018	413.50	0.005	436.00	0.001	458.50	0.000	481.00	0.000
368.67	0.054	391.17	0.017	413.67	0.005	436.17	0.001	458.67	0.000	481.17	0.000
368.83	0.054	391.33	0.017	413.83	0.005	436.33	0.001	458.83	0.000	481.33	0.000
369.00	0.053	391.50	0.017	414.00	0.005	436.50	0.001	459.00	0.000	481.50	0.000
369.17	0.053	391.67	0.017	414.17	0.005	436.67	0.001	459.17	0.000	481.67	0.000
369.33	0.053	391.83	0.017	414.33	0.005	436.83	0.001	459.33	0.000	481.83	0.000
369.50	0.052	392.00	0.017	414.50	0.005	437.00	0.001	459.50	0.000	482.00	0.000
369.67	0.052	392.17	0.016	414.67	0.005	437.17	0.001	459.67	0.000	482.17	0.000
369.83	0.051	392.33	0.016	414.83	0.005	437.33	0.001	459.83	0.000	482.33	0.000
370.00	0.051	392.50	0.016	415.00	0.005	437.50	0.001	460.00	0.000	482.50	0.000
370.17	0.051	392.67	0.016	415.17	0.005	437.67	0.001	460.17	0.000	482.67	0.000
370.33	0.050	392.83	0.016	415.33	0.005	437.83	0.001	460.33	0.000	482.83	0.000
370.50	0.050	393.00	0.016	415.50	0.005	438.00	0.001	460.50	0.000	483.00	0.000
370.67	0.049	393.17	0.016	415.67	0.004	438.17	0.001	460.67	0.000	483.17	0.000
370.83	0.049	393.33	0.015	415.83	0.004	438.33	0.001	460.83	0.000	483.33	0.000
371.00	0.049	393.50	0.015	416.00	0.004	438.50	0.001	461.00	0.000	483.50	0.000
371.17	0.048	393.67	0.015	416.17	0.004	438.67	0.001	461.17	0.000	483.67	0.000
371.33	0.048	393.83	0.015	416.33	0.004	438.83	0.001	461.33	0.000	483.83	0.000
371.50	0.047	394.00	0.015	416.50	0.004	439.00	0.001	461.50	0.000	484.00	0.000
371.67	0.047	394.17	0.015	416.67	0.004	439.17	0.001	461.67	0.000	484.17	0.000
371.83	0.047	394.33	0.015	416.83	0.004	439.33	0.001	461.83	0.000	484.33	0.000
372.00	0.046	394.50	0.015	417.00	0.004	439.50	0.001	462.00	0.000	484.50	0.000
372.17	0.046	394.67	0.014	417.17	0.004	439.67	0.001	462.17	0.000	484.67	0.000
372.33	0.046	394.83	0.014	417.33	0.004	439.83	0.001	462.33	0.000	484.83	0.000
372.50	0.045	395.00	0.014	417.50	0.004	440.00	0.001	462.50	0.000	485.00	0.000
372.67	0.045	395.17	0.014	417.67	0.004	440.17	0.001	462.67	0.000	485.17	0.000
372.83	0.044	395.33	0.014	417.83	0.004	440.33	0.001	462.83	0.000	485.33	0.000
373.00	0.044	395.50	0.014	418.00	0.004	440.50	0.001	463.00	0.000	485.50	0.000
373.17	0.044	395.67	0.014	418.17	0.004	440.67	0.001	463.17	0.000	485.67	0.000
373.33	0.043	395.83	0.014	418.33	0.004	440.83	0.001	463.33	0.000	485.83	0.000
373.50	0.043	396.00	0.013	418.50	0.004	441.00	0.001	463.50	0.000	486.00	0.000
373.67	0.043	396.17	0.013	418.67	0.004	441.17	0.001	463.67	0.000	486.17	0.000
373.83	0.042	396.33	0.013	418.83	0.004	441.33	0.001	463.83	0.000	486.33	0.000
374.00	0.042	396.50	0.013	419.00	0.004	441.50	0.001	464.00	0.000	486.50	0.000
374.17	0.042	396.67	0.013	419.17	0.004	441.67	0.001	464.17	0.000	486.67	0.000
374.33	0.041	396.83	0.013	419.33	0.004	441.83	0.001	464.33	0.000	486.83	0.000
374.50	0.041	397.00	0.013	419.50	0.004	442.00	0.001	464.50	0.000	487.00	0.000
374.67	0.041	397.17	0.013	419.67	0.004	442.17	0.001	464.67	0.000	487.17	0.000
374.83	0.040	397.33	0.012	419.83	0.004	442.33	0.001	464.83	0.000	487.33	0.000
375.00	0.040	397.50	0.012	420.00	0.004	442.50	0.001	465.00	0.000	487.50	0.000
375.17	0.040	397.67	0.012	420.17	0.003	442.67	0.001	465.17	0.000	487.67	0.000
375.33	0.039	397.83	0.012	420.33	0.003	442.83	0.001	465.33	0.000	487.83	0.000
375.50	0.039	398.00	0.012	420.50	0.003	443.00	0.001	465.50	0.000	488.00	0.000
375.67	0.039	398.17	0.012	420.67	0.003	443.17	0.001	465.67	0.000	488.17	0.000
375.83	0.038	398.33	0.012	420.83	0.003	443.33	0.001	465.83	0.000	488.33	0.000
376.00	0.038	398.50	0.012	421.00	0.003	443.50	0.001	466.00	0.000	488.50	0.000
376.17	0.038	398.67	0.012	421.17	0.003	443.67	0.001	466.17	0.000	488.67	0.000
376.33	0.037	398.83	0.011	421.33	0.003	443.83	0.001	466.33	0.000	488.83	0.000
376.50	0.037	399.00	0.011	421.50	0.003	444.00	0.001	466.50	0.000	489.00	0.000
376.67	0.037	399.17	0.011	421.67	0.003	444.17	0.001	466.67	0.000	489.17	0.000
376.83	0.036	399.33	0.011	421.83	0.003	444.33	0.001	466.83	0.000	489.33	0.000
377.00	0.036	399.50	0.011	422.00	0.003	444.50	0.001	467.00	0.000	489.50	0.000
377.17	0.036	399.67	0.011	422.17	0.003	444.67	0.001	467.17	0.000	489.67	0.000
377.33	0.036	399.83	0.011	422.33	0.003	444.83	0.001	467.33	0.000	489.83	0.000
377.50	0.035	400.00	0.011	422.50	0.003	445.00	0.001	467.50	0.000	490.00	0.000
377.67	0.035	400.17	0.011	422.67	0.003	445.17	0.001	467.67	0.000	490.17	0.000
377.83	0.035	400.33	0.011	422.83	0.003	445.33	0.001	467.83	0.000	490.33	0.000
378.00	0.034	400.50	0.010	423.00	0.003	445.50	0.001	468.00	0.000	490.50	0.000
378.17	0.034	400.67	0.010	423.17	0.003	445.67	0.001	468.17	0.000	490.67	0.000
378.33	0.034	400.83	0.010	423.33	0.003	445.83	0.001	468.33	0.000	490.83	0.000
378.50	0.034	401.00	0.010	423.50	0.003	446.00	0.001	468.50	0.000	491.00	0.000
378.67	0.033	401.17	0.010	423.67	0.003	446.17	0.001	468.67	0.000	491.17	0.000
378.83	0.033	401.33	0.010	423.83	0.003	446.33	0.001	468.83	0.000	491.33	0.000
379.00	0.033	401.50	0.010	424.00	0.003	446.50	0.001	469.00	0.000	491.50	0.000
379.17	0.032	401.67	0.010	424.17	0.003	446.67	0.001	469.17	0.000	491.67	0.000
379.33	0.032	401.83	0.010	424.33	0.003	446.83	0.001	469.33	0.000	491.83	0.000
379.50	0.032	402.00	0.010	424.50	0.003	447.00	0.001	469.50	0.000	492.00	0.000
379.67	0.032	402.17	0.010	424.67	0.003	447.17	0.001	469.67	0.000	492.17	0.000
379.83	0.031	402.33	0.009	424.83	0.003	447.33	0.001	469.83	0.000	492.33	0.000
380.00	0.031	402.50	0.009	425.00	0.003	447.50	0.001	470.00	0.000	492.50	0.000
380.17	0.031	402.67	0.009	425.17	0.003	447.67	0.001	470.17	0.000	492.67	0.000
380.33	0.031	402.83	0.009	425.33	0.003	447.83	0.001	470.33	0.000	492.83	0.000
380.50	0.030	403.00	0.009	425.50	0.003	448.00	0.001	470.50	0.000	493.00	0.000
380.67	0.030	403.17	0.009	425.67	0.003	448.17	0.001	470.67	0.000	493.17	0.000
380.83	0.030	403.33	0.009	425.83	0.003	448.33	0.001	470.83	0.000	493.33	0.000
381.00	0.030	403.50	0.009	426.00	0.002	448.50	0.001	471.00	0.000	493.50	0.000
381.17	0.029	403.67	0.009	426.17	0.002	448.67	0.001	471.17	0.000	493.67	0.000
381.33	0.029	403.83	0.009	426.33	0.002	448.83	0.001	471.33	0.000	493.83	0.000
381.50	0.029	404.00	0.009	426.50	0.002	449.00	0.001	471.50	0.000	494.00	0.000
381.67	0.029	404.17	0.009	426.67	0.002	449.17	0.001	471.67	0.000	494.17	0.000
381.83	0.028	404.33	0.008	426.83	0.002	449.33	0.001	471.83	0.000	494.33	0.000
382.00	0.028	404.50	0.008	427.00	0.002	449.50	0.001	472.00	0.000	494.50	0.000
382.17	0.028	404.67	0.008	427.17	0.002	449.67	0.001	472.17	0.000	494.67	0.000
382.33	0.028	404.83	0.008	427.33	0.002	449.83	0.001	472.33	0.000	494.83	0.000

MO_DR (JR SUMMER)



Hydrograph Statistics:

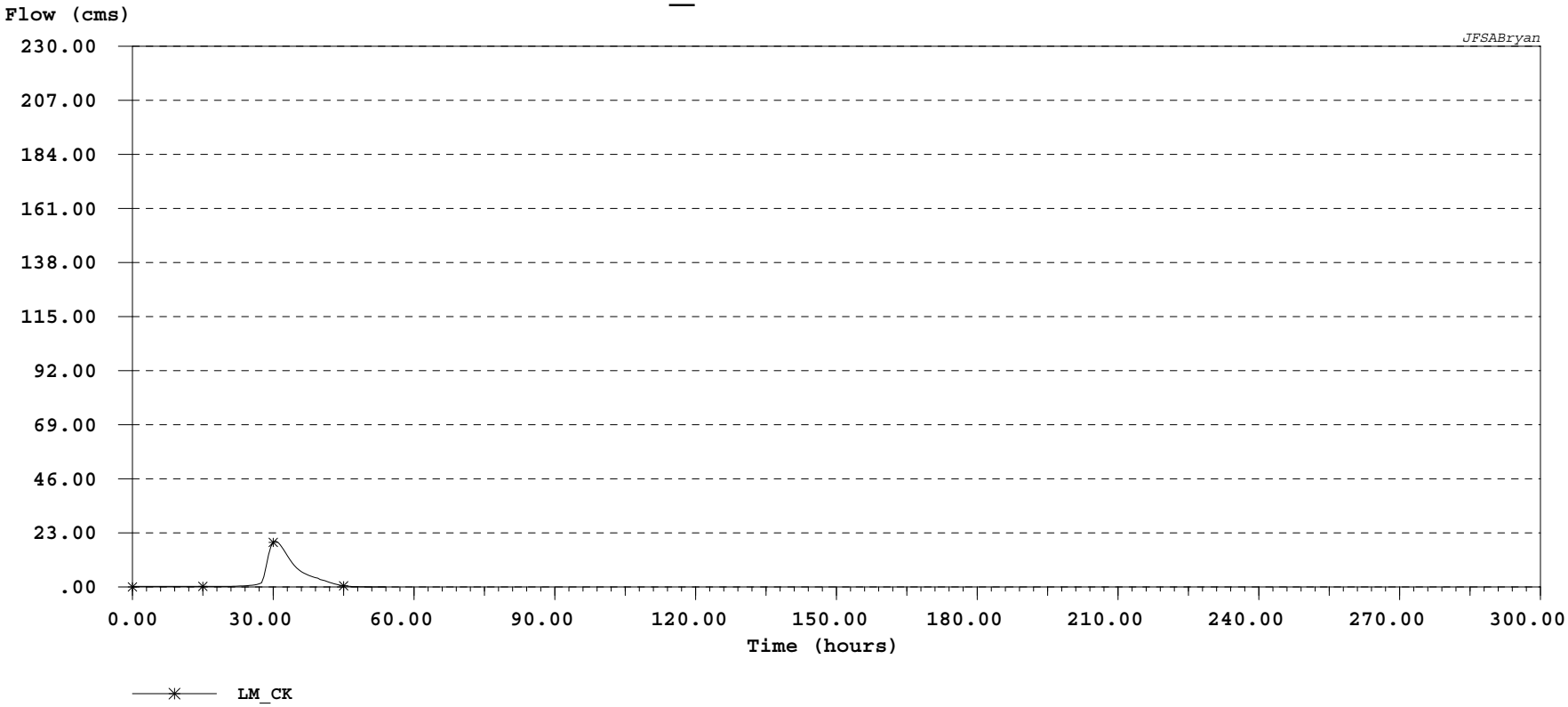
Legend	Filename & Comment	Time Step (min)	Drainage Area (ha)	Peak Flow (cms)	Time to Peak (hrs)	Runoff Volume (mm)	Runoff Volume (cu.m)	Duration of flow (hrs)	Average flow (cms)
——■——	H-MO_DR.100 : MO_DR	30.00	2737.00	40.026	31.000	46.72	1.279E+06	57.000	6.232

Hydrograph Table:

Hydrograph Filename : Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\JRSUMM~1\H-MO_DR.100
Comment in file : MO_DR

TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
0.00	0.000	19.00	0.628	38.00	14.101
0.50	0.645	19.50	0.636	38.50	12.997
1.00	0.644	20.00	0.650	39.00	12.034
1.50	0.643	20.50	0.669	39.50	11.205
2.00	0.643	21.00	0.695	40.00	9.373
2.50	0.642	21.50	0.731	40.50	8.700
3.00	0.641	22.00	0.776	41.00	7.975
3.50	0.640	22.50	0.831	41.50	7.194
4.00	0.639	23.00	0.900	42.00	6.381
4.50	0.638	23.50	0.982	42.50	5.573
5.00	0.637	24.00	1.083	43.00	4.797
5.50	0.636	24.50	1.206	43.50	4.076
6.00	0.635	25.00	1.358	44.00	3.423
6.50	0.634	25.50	1.547	44.50	2.843
7.00	0.634	26.00	1.784	45.00	2.295
7.50	0.633	26.50	2.096	45.50	1.860
8.00	0.632	27.00	2.538	46.00	1.505
8.50	0.631	27.50	3.418	46.50	1.210
9.00	0.630	28.00	7.132	47.00	0.967
9.50	0.629	28.50	14.443	47.50	0.769
10.00	0.628	29.00	22.702	48.00	0.608
10.50	0.627	29.50	29.956	48.50	0.478
11.00	0.626	30.00	35.335	49.00	0.374
11.50	0.626	30.50	38.629	49.50	0.291
12.00	0.625	31.00	40.026	50.00	0.226
12.50	0.624	31.50	39.934	50.50	0.174
13.00	0.623	32.00	38.793	51.00	0.134
13.50	0.622	32.50	36.918	51.50	0.102
14.00	0.621	33.00	34.546	52.00	0.077
14.50	0.620	33.50	31.911	52.50	0.057
15.00	0.619	34.00	29.211	53.00	0.042
15.50	0.618	34.50	26.593	53.50	0.031
16.00	0.618	35.00	24.154	54.00	0.023
16.50	0.617	35.50	21.952	54.50	0.016
17.00	0.616	36.00	20.011	55.00	0.011
17.50	0.615	36.50	18.293	55.50	0.007
18.00	0.614	37.00	16.746	56.00	0.004
18.50	0.621	37.50	15.350	56.50	0.002

LM_CK (JR SUMMER)



Hydrograph Statistics:

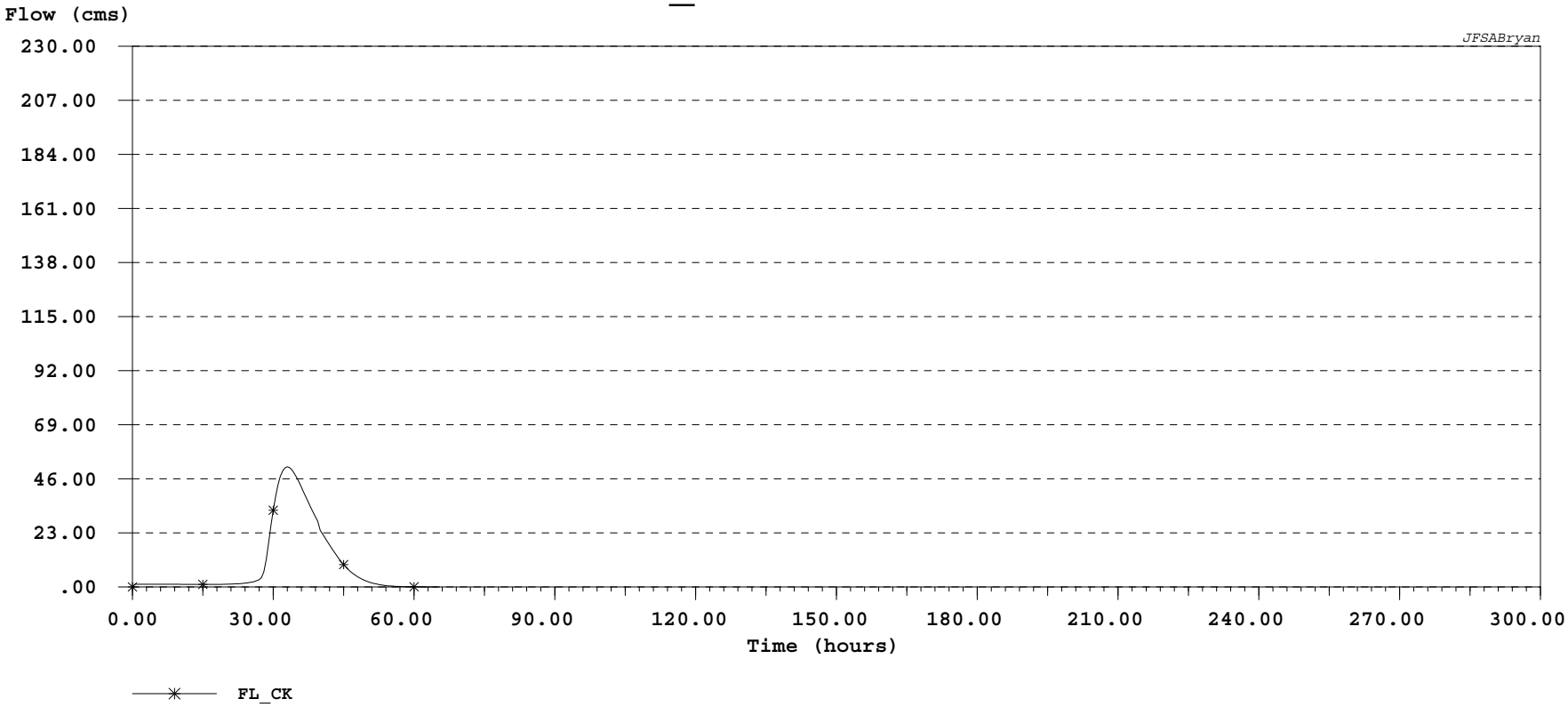
Legend	Filename & Comment	Time Step (min)	Drainage Area (ha)	Peak Flow (cms)	Time to Peak (hrs)	Runoff Volume (mm)	Runoff Volume (cu.m)	Duration of flow (hrs)	Average flow (cms)
——✳——	H-LM_CK.100 : LM_CK	30.00	1021.00	19.515	30.500	51.13	5.220E+05	54.000	2.685

Hydrograph Table:

Hydrograph Filename : Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\JRSUMM~1\H-LM_CK.100
Comment in file : LM_CK

TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
0.00	0.000	19.00	0.234	38.00	4.583
0.50	0.241	19.50	0.238	38.50	4.242
1.00	0.240	20.00	0.245	39.00	3.954
1.50	0.240	20.50	0.256	39.50	3.717
2.00	0.240	21.00	0.271	40.00	3.127
2.50	0.239	21.50	0.292	40.50	2.919
3.00	0.239	22.00	0.318	41.00	2.651
3.50	0.239	22.50	0.349	41.50	2.335
4.00	0.238	23.00	0.387	42.00	1.982
4.50	0.238	23.50	0.432	42.50	1.653
5.00	0.238	24.00	0.488	43.00	1.355
5.50	0.237	24.50	0.555	43.50	1.090
6.00	0.237	25.00	0.639	44.00	0.864
6.50	0.237	25.50	0.742	44.50	0.676
7.00	0.236	26.00	0.873	45.00	0.522
7.50	0.236	26.50	1.046	45.50	0.399
8.00	0.236	27.00	1.297	46.00	0.302
8.50	0.235	27.50	1.768	46.50	0.227
9.00	0.235	28.00	4.358	47.00	0.169
9.50	0.235	28.50	9.043	47.50	0.125
10.00	0.234	29.00	13.685	48.00	0.092
10.50	0.234	29.50	17.090	48.50	0.067
11.00	0.234	30.00	18.983	49.00	0.048
11.50	0.233	30.50	19.515	49.50	0.035
12.00	0.233	31.00	19.028	50.00	0.024
12.50	0.233	31.50	17.905	50.50	0.017
13.00	0.232	32.00	16.469	51.00	0.012
13.50	0.232	32.50	14.896	51.50	0.008
14.00	0.232	33.00	13.291	52.00	0.005
14.50	0.231	33.50	11.753	52.50	0.003
15.00	0.231	34.00	10.351	53.00	0.002
15.50	0.231	34.50	9.124	53.50	0.001
16.00	0.230	35.00	8.082	54.00	0.000
16.50	0.230	35.50	7.222	54.50	0.000
17.00	0.230	36.00	6.526	55.00	0.000
17.50	0.229	36.50	5.944	55.50	0.000
18.00	0.229	37.00	5.433	56.00	0.000
18.50	0.232	37.50	4.980	56.50	0.000

FL_CK (JR SUMMER)



Hydrograph Statistics:

Legend	Filename & Comment	Time Step (min)	Drainage Area (ha)	Peak Flow (cms)	Time to Peak (hrs)	Runoff Volume (mm)	Runoff Volume (cu.m)	Duration of flow (hrs)	Average flow (cms)
——✳——	H-FL_CK.100 : FL_CK	30.00	4945.00	51.121	33.000	44.15	2.183E+06	65.000	9.330

Hydrograph Table:

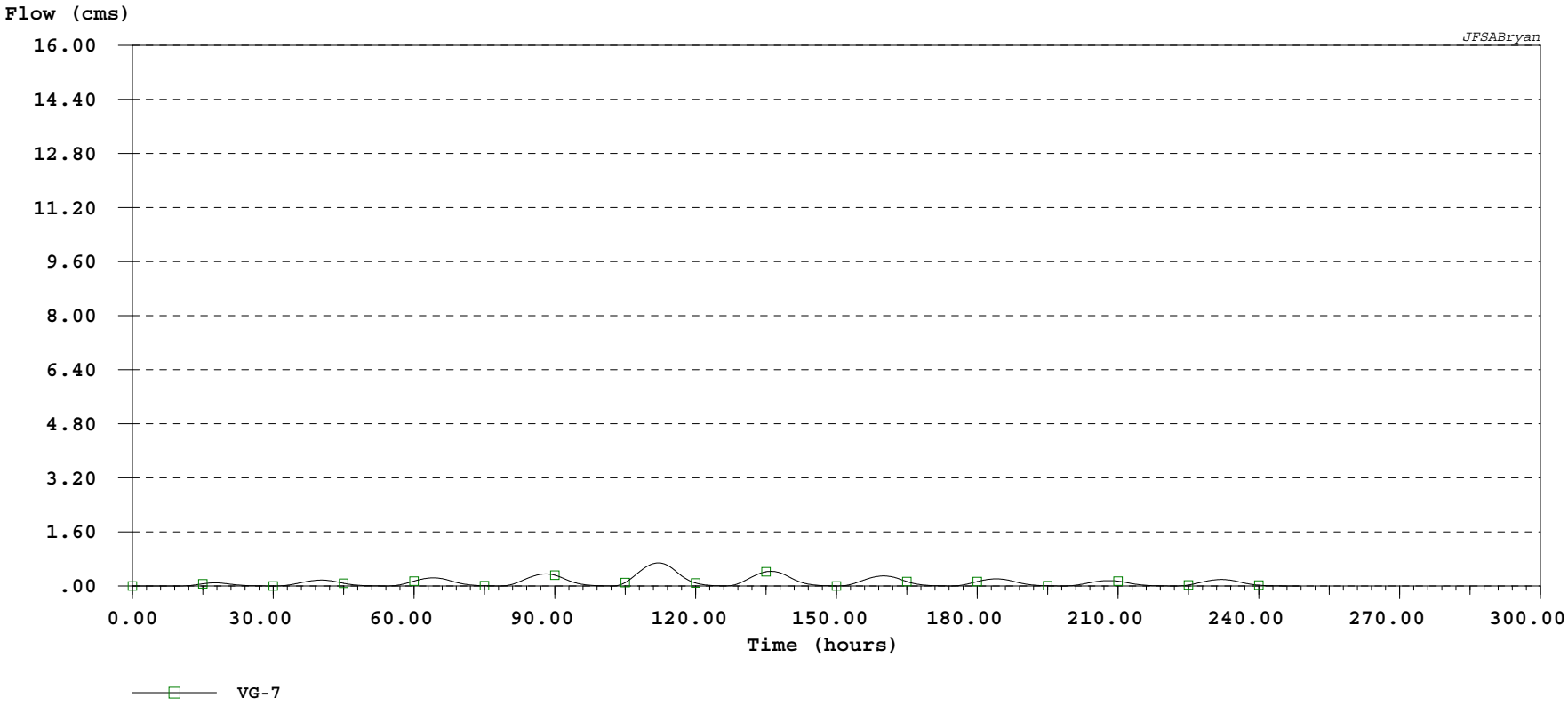
Hydrograph Filename : Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\JRSUMM~1\H-FL_CK.100
Comment in file : FL_CK

TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
0.00	0.000	19.00	1.134	38.00	33.787	57.00	0.187
0.50	1.166	19.50	1.146	38.50	31.740	57.50	0.155
1.00	1.164	20.00	1.165	39.00	29.794	58.00	0.127
1.50	1.163	20.50	1.186	39.50	27.965	58.50	0.104
2.00	1.161	21.00	1.214	40.00	24.170	59.00	0.085
2.50	1.159	21.50	1.249	40.50	22.558	59.50	0.068
3.00	1.158	22.00	1.294	41.00	20.976	60.00	0.055
3.50	1.156	22.50	1.349	41.50	19.405	60.50	0.043
4.00	1.154	23.00	1.420	42.00	17.847	61.00	0.033
4.50	1.153	23.50	1.504	42.50	16.313	61.50	0.026
5.00	1.151	24.00	1.609	43.00	14.821	62.00	0.020
5.50	1.150	24.50	1.737	43.50	13.385	62.50	0.015
6.00	1.148	25.00	1.894	44.00	12.021	63.00	0.011
6.50	1.146	25.50	2.088	44.50	10.738	63.50	0.007
7.00	1.145	26.00	2.333	45.00	9.545	64.00	0.005
7.50	1.143	26.50	2.650	45.50	8.444	64.50	0.002
8.00	1.141	27.00	3.089	46.00	7.438	65.00	0.000
8.50	1.140	27.50	4.092	46.50	6.525	65.50	0.000
9.00	1.138	28.00	6.530	47.00	5.703	66.00	0.000
9.50	1.137	28.50	11.724	47.50	4.967	66.50	0.000
10.00	1.135	29.00	18.540	48.00	4.311	67.00	0.000
10.50	1.133	29.50	25.784	48.50	3.730	67.50	0.000
11.00	1.132	30.00	32.631	49.00	3.219	68.00	0.000
11.50	1.130	30.50	38.567	49.50	2.770	68.50	0.000
12.00	1.129	31.00	43.336	50.00	2.377	69.00	0.000
12.50	1.127	31.50	46.892	50.50	2.035	69.50	0.000
13.00	1.125	32.00	49.311	51.00	1.738	70.00	0.000
13.50	1.124	32.50	50.686	51.50	1.480	70.50	0.000
14.00	1.122	33.00	51.121	52.00	1.257	71.00	0.000
14.50	1.121	33.50	50.764	52.50	1.064	71.50	0.000
15.00	1.119	34.00	49.776	53.00	0.842	72.00	0.000
15.50	1.117	34.50	48.315	53.50	0.690	72.50	0.000
16.00	1.116	35.00	46.524	54.00	0.574	73.00	0.000
16.50	1.114	35.50	44.524	54.50	0.479	73.50	0.000
17.00	1.113	36.00	42.417	55.00	0.398	74.00	0.000
17.50	1.111	36.50	40.259	55.50	0.332	74.50	0.000
18.00	1.110	37.00	38.079	56.00	0.276	75.00	0.000
18.50	1.122	37.50	35.910	56.50	0.228	75.50	0.000

APPENDIX H

Van Gaal Hydrographs (1:100 Year Spring)

VG-7 (VG SPRING)



Hydrograph Statistics:

Legend	Filename & Comment	Time Step (min)	Drainage Area (ha)	Peak Flow (cms)	Time to Peak (hrs)	Runoff Volume (mm)	Runoff Volume (cu.m)	Duration of flow (hrs)	Average flow (cms)
	H-VG-7.100 : VG-7	5.00	39.20	0.683	112.083	251.21	9.847E+04	248.417	0.110

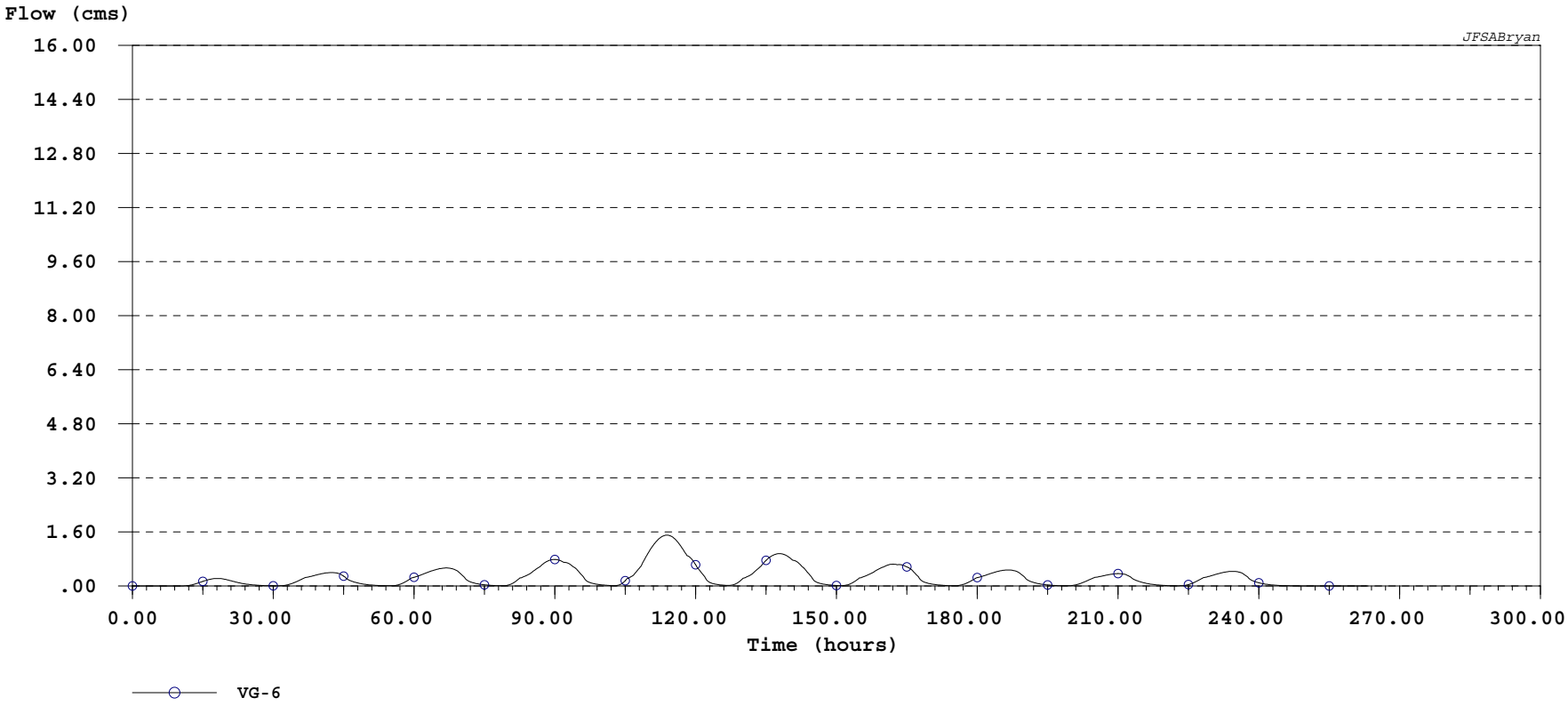
Hydrograph Table:

Hydrograph Filename : Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSPRI~1\H-VG-7.100
Comment in file : VG-7

TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
0.00	0.000	11.25	0.004	22.50	0.030	33.75	0.039	45.00	0.079	56.25	0.018	67.50	0.166	78.75	0.002	90.00	0.320	101.25	0.003	112.50	0.679
0.08	0.000	11.33	0.004	22.58	0.029	33.83	0.041	45.08	0.077	56.33	0.019	67.58	0.163	78.83	0.003	90.08	0.317	101.33	0.002	112.58	0.678
0.17	0.000	11.42	0.005	22.67	0.028	33.92	0.043	45.17	0.075	56.42	0.021	67.67	0.159	78.92	0.003	90.17	0.314	101.42	0.002	112.67	0.676
0.25	0.000	11.50	0.005	22.75	0.027	34.00	0.045	45.25	0.073	56.50	0.023	67.75	0.156	79.00	0.004	90.25	0.311	101.50	0.002	112.75	0.674
0.33	0.000	11.58	0.006	22.83	0.026	34.08	0.047	45.33	0.071	56.58	0.025	67.83	0.152	79.08	0.005	90.33	0.307	101.58	0.002	112.83	0.672
0.42	0.000	11.67	0.007	22.92	0.025	34.17	0.050	45.42	0.069	56.67	0.027	67.92	0.149	79.17	0.006	90.42	0.303	101.67	0.002	112.92	0.669
0.50	0.000	11.75	0.008	23.00	0.025	34.25	0.052	45.50	0.067	56.75	0.029	68.00	0.146	79.25	0.007	90.50	0.299	101.75	0.002	113.00	0.666
0.58	0.000	11.83	0.008	23.08	0.024	34.33	0.054	45.58	0.065	56.83	0.031	68.08	0.142	79.33	0.008	90.58	0.295	101.83	0.002	113.08	0.663
0.67	0.000	11.92	0.009	23.17	0.023	34.42	0.056	45.67	0.063	56.92	0.033	68.17	0.139	79.42	0.009	90.67	0.291	101.92	0.002	113.17	0.660
0.75	0.000	12.00	0.010	23.25	0.022	34.50	0.058	45.75	0.061	57.00	0.035	68.25	0.136	79.50	0.010	90.75	0.287	102.00	0.001	113.25	0.656
0.83	0.000	12.08	0.011	23.33	0.021	34.58	0.060	45.83	0.059	57.08	0.038	68.33	0.132	79.58	0.011	90.83	0.283	102.08	0.001	113.33	0.652
0.92	0.000	12.17	0.012	23.42	0.021	34.67	0.063	45.92	0.057	57.17	0.040	68.42	0.129	79.67	0.013	90.92	0.279	102.17	0.001	113.42	0.648
1.00	0.000	12.25	0.013	23.50	0.020	34.75	0.065	46.00	0.055	57.25	0.043	68.50	0.126	79.75	0.015	91.00	0.274	102.25	0.001	113.50	0.644
1.08	0.000	12.33	0.014	23.58	0.019	34.83	0.067	46.08	0.053	57.33	0.045	68.58	0.123	79.83	0.016	91.08	0.269	102.33	0.002	113.58	0.639
1.17	0.000	12.42	0.016	23.67	0.019	34.92	0.070	46.17	0.052	57.42	0.048	68.67	0.119	79.92	0.018	91.17	0.265	102.42	0.002	113.67	0.634
1.25	0.000	12.50	0.017	23.75	0.018	35.00	0.072	46.25	0.050	57.50	0.050	68.75	0.116	80.00	0.020	91.25	0.260	102.50	0.002	113.75	0.629
1.33	0.000	12.58	0.018	23.83	0.017	35.08	0.074	46.33	0.048	57.58	0.053	68.83	0.113	80.08	0.022	91.33	0.255	102.58	0.003	113.83	0.624
1.42	0.000	12.67	0.019	23.92	0.017	35.17	0.077	46.42	0.047	57.67	0.056	68.92	0.110	80.17	0.025	91.42	0.250	102.67	0.003	113.92	0.618
1.50	0.000	12.75	0.021	24.00	0.016	35.25	0.079	46.50	0.045	57.75	0.059	69.00	0.107	80.25	0.027	91.50	0.245	102.75	0.004	114.00	0.612
1.58	0.000	12.83	0.022	24.08	0.015	35.33	0.081	46.58	0.044	57.83	0.062	69.08	0.104	80.33	0.030	91.58	0.241	102.83	0.005	114.08	0.606
1.67	0.000	12.92	0.024	24.17	0.015	35.42	0.084	46.67	0.042	57.92	0.064	69.17	0.101	80.42	0.032	91.67	0.236	102.92	0.006	114.17	0.600
1.75	0.000	13.00	0.025	24.25	0.014	35.50	0.086	46.75	0.041	58.00	0.067	69.25	0.098	80.50	0.035	91.75	0.231	103.00	0.008	114.25	0.593
1.83	0.000	13.08	0.027	24.33	0.014	35.58	0.088	46.83	0.039	58.08	0.070	69.33	0.095	80.58	0.038	91.83	0.226	103.08	0.009	114.33	0.586
1.92	0.000	13.17	0.028	24.42	0.013	35.67	0.091	46.92	0.038	58.17	0.073	69.42	0.092	80.67	0.041	91.92	0.221	103.17	0.011	114.42	0.579
2.00	0.000	13.25	0.030	24.50	0.013	35.75	0.093	47.00	0.037	58.25	0.077	69.50	0.090	80.75	0.044	92.00	0.216	103.25	0.012	114.50	0.572
2.08	0.000	13.33	0.031	24.58	0.012	35.83	0.096	47.08	0.035	58.33	0.080	69.58	0.087	80.83	0.047	92.08	0.211	103.33	0.014	114.58	0.564
2.17	0.000	13.42	0.033	24.67	0.012	35.92	0.098	47.17	0.034	58.42	0.083	69.67	0.084	80.92	0.050	92.17	0.206	103.42	0.017	114.67	0.557
2.25	0.000	13.50	0.035	24.75	0.011	36.00	0.100	47.25	0.033	58.50	0.086	69.75	0.082	81.00	0.054	92.25	0.201	103.50	0.019	114.75	0.549
2.33	0.000	13.58	0.036	24.83	0.011	36.08	0.103	47.33	0.032	58.58	0.089	69.83	0.079	81.08	0.057	92.33	0.196	103.58	0.022	114.83	0.540
2.42	0.000	13.67	0.038	24.92	0.011	36.17	0.105	47.42	0.031	58.67	0.092	69.92	0.077	81.17	0.061	92.42	0.191	103.67	0.025	114.92	0.532
2.50	0.000	13.75	0.040	25.00	0.010	36.25	0.107	47.50	0.030	58.75	0.096	70.00	0.074	81.25	0.064	92.50	0.186	103.75	0.028	115.00	0.523
2.58	0.000	13.83	0.041	25.08	0.010	36.33	0.110	47.58	0.028	58.83	0.099	70.08	0.072	81.33	0.068	92.58	0.181	103.83	0.032	115.08	0.515
2.67	0.000	13.92	0.043	25.17	0.009	36.42	0.112	47.67	0.027	58.92	0.102	70.17	0.069	81.42	0.072	92.67	0.176	103.92	0.035	115.17	0.506
2.75	0.000	14.00	0.045	25.25	0.009	36.50	0.114	47.75	0.026	59.00	0.106	70.25	0.067	81.50	0.076	92.75	0.172	104.00	0.039	115.25	0.497
2.83	0.000	14.08	0.046	25.33	0.009	36.58	0.117	47.83	0.025	59.08	0.109	70.33	0.065	81.58	0.080	92.83	0.167	104.08	0.043	115.33	0.487
2.92	0.000	14.17	0.048	25.42	0.008	36.67	0.119	47.92	0.024	59.17	0.112	70.42	0.063	81.67	0.084	92.92	0.162	104.17	0.047	115.42	0.478
3.00	0.000	14.25	0.050	25.50	0.008	36.75	0.121	48.00	0.024	59.25	0.115	70.50	0.061	81.75	0.089	93.00	0.158	104.25	0.052	115.50	0.469
3.08	0.000	14.33	0.052	25.58	0.008	36.83	0.123	48.08	0.023	59.33	0.119	70.58	0.059	81.83	0.093	93.08	0.153	104.33	0.057	115.58	0.459
3.17	0.000	14.42	0.053	25.67	0.007	36.92	0.125	48.17	0.022	59.42	0.122	70.67	0.057	81.92	0.097	93.17	0.149	104.42	0.062	115.67	0.450
3.25	0.000	14.50	0.055	25.75	0.007	37.00	0.127	48.25	0.021	59.50	0.125	70.75	0.055	82.00	0.102	93.25	0.145	104.50	0.067	115.75	0.440
3.33	0.000	14.58	0.057	25.83	0.007	37.08	0.130	48.33	0.020	59.58	0.129	70.83	0.053	82.08	0.106	93.33	0.141	104.58	0.073	115.83	0.431
3.42	0.000	14.67	0.058	25.92	0.006	37.17	0.132	48.42	0.019	59.67	0.132	70.92	0.051	82.17	0.111	93.42	0.136	104.67	0.078	115.92	0.421
3.50	0.000	14.75	0.060	26.00	0.006	37.25	0.134	48.50	0.019	59.75	0.135	71.00	0.049	82.25	0.116	93.50	0.132	104.75	0.084	116.00	0.411
3.58	0.000	14.83	0.062	26.08	0.006	37.33	0.136	48.58	0.018	59.83	0.139	71.08	0.047	82.33	0.120	93.58	0.128	104.83	0.090	116.08	0.402
3.67	0.000	14.92	0.063	26.17	0.006	37.42	0.138	48.67	0.017	59.92	0.142	71.17	0.046	82.42	0.125	93.67	0.124	104.92	0.097	116.17	0.392
3.75	0.000	15.00	0.065	26.25	0.005	37.50	0.140	48.75	0.017	60.00	0.145	71.25	0.044	82.50	0.130	93.75	0.121	105.00	0.103	116.25	0.383
3.83	0.000	15.08	0.066	26.33	0.005	37.58	0.142	48.83	0.016	60.08	0.148	71.33	0.043	82.58	0.135	93.83	0.117	105.08	0.110	116.33	0.374
3.92	0.000	15.17	0.068	26.42	0.005	37.67	0.143	48.92	0.015	60.17	0.152	71.42	0.041	82.67	0.139	93.92	0.113	105.17	0.117	116.42	0.364
4.00	0.000	15.25	0.069	26.50	0.005	37.75	0.145	49.00	0.015	60.25	0.155	71.50	0.040	82.75	0.144	94.00	0.110	105.25	0.124	116.50	0.355
4.08	0.000	15.33	0.071	26.58	0.005	37.83	0.147	49.08	0.014	60.33	0.158	71.58	0.038	82.83	0.149	94.08	0.106	105.33	0.131	116.58	0.346
4.17	0.000	15.42	0.072	26.67	0.004	37.92	0.149	49.17	0.014	60.42	0.161	71.67	0.037	82.92	0.154	94.17	0.103	105.42	0.139	116.67	0.337
4.25	0.000	15.50	0.074	26.75	0.004	38.00	0.150	49.25	0.013	60.50	0.164	71.75	0.035	83.00	0.159	94.25	0.099	105.50	0.147	116.75	0.328
4.33	0.000	15.58	0.075	26.83	0.004	38.08	0.152	49.33	0.012	60.58	0.167	71.83	0.034	83.08	0.164	94.33	0.096	105.58	0.154	116.83	0.319
4.42	0.000	15.67	0.076	26.92	0.004	38.17	0.154	49.42	0.012	60.67	0.170	71.92	0.033	83.17	0.169	94.42	0.093	105.67	0.162	116.92	0.310
4.50	0.000	15.75	0.078	27.00	0.004	38.25	0.155	49.50	0.011	60.75	0.173	72.00	0.032	83.25	0.174	94.50	0.090	105.75	0.171	117.00	0.301
4.58	0.000	15.83	0.079	27.08	0.004	38.33	0.157	49.58	0.011	60.83	0.176	72.08	0.030	83.33	0.179	94.58	0.087	105.83	0.179	117.08	0.293
4.67	0.000	15.92	0.080	27.17	0.003	38.42	0.158	49.67	0.011	60.92	0.179	72.17	0.029	83.42	0.184	94.67	0.084	105.92	0.187	117.17	0.285
4.75	0.000	16.00	0.081	27.25	0.003	38.50	0.159	49.75	0.010	61.00	0.182	72.25	0.028	83.50	0.189	94.75	0.081	106.00	0.196	117.25	0.276
4.83	0.000	16.08	0.082	27.33	0.003	38.58	0.161	49.83	0.010	61.08	0.185	72.33	0.027	83.58	0.194	94.83	0.078	106.08	0.205	117.33	0.268
4.92	0.000	16.17	0.084	27.42	0.003	38.67	0.162	49.92	0.009	61.17	0.187	72.42	0.026	83.67	0.199	94.92	0.075	106.17	0.213	117.42	0.260
5.00	0.000	16.25	0.085	27.50	0.003	38.75	0.163	50.00	0.009	61.25	0.190	72.50	0.025	83.75	0.204	95.00	0.073	106.25	0.222	117.50	0.252
5.08	0.000	16.33	0.086	27.58	0.003	38.83	0.164	50.08	0.008	61.33	0.193	72.58	0.024	83.83	0.208	95.08	0.070	106.33	0.231	117.58	0.245
5.17	0.000	16.42	0.086	27.67	0.003	38.92	0.165	50.17	0.008	61.42	0.195	72.67	0.023	83.92	0.213	95.17	0.068	106.42	0.240	117.67	0.237
5.25	0.000	16.50	0.087	27.75	0.002	39.00	0.166	50.25	0.008	61.50	0.198	72.75	0.022	84.00	0.218	95.25	0.065	106.50	0.249	117.75	0.230
5.33	0.000	16.58	0.088	27.83	0.002	39.08	0.167	50.33	0.007	61.58	0.200	72.83	0.021	84.08	0.223	95.33	0.063	106.58	0.259	117.83	0.223
5.42	0.000	16.67	0.089	27.92	0.002	39.17	0.168	50.42	0.007	61.67	0.203	72.92	0.020	84.17	0.228	95.42	0.061	106.67	0.268	117.92	0.216
5.50	0.000	16.75	0.089	28.00	0.002	39.25	0.169	50.50	0.007	61.75	0.205	73.00	0.020	84.25	0.233	95.50	0.058	106.75	0.277	118.00	0.209
5.58	0.000	16.83	0.090	28.08	0.002	39.33	0.170	50.58	0.007	61.83	0.207	73.08	0.019	84.33	0.237	95.58	0.056	106.83	0.287	118.08	0.202
5.67	0.000	16.92	0.091	28.17	0.002	39.42	0.171	50.67	0.006	61.92	0.210	73.17	0.018	84.42	0.242	95.67	0.054	106.92	0.296	118.17	0.196
5.75	0.000	17.00	0.091	28.25	0.002	39.50	0.171	50.75	0.006	62.00	0.212	73.25	0.017	84.50	0.246	95.75	0.052	107.00	0.306	118.25	0.189
5.83	0.000	17.08	0.092	28.33	0.002	39.58	0.172	50.83	0.006	62.08	0.214	73.33	0.017	84.58	0.251	95.83	0.050	107.08	0.315	118.33	0.183
5.92	0.000	17.17	0.092	28.42	0.002	39.67	0.173	50.92	0.005	62.17	0.216	73.42	0.016	84.67	0.255	95.92	0.048	107.17	0.325	118.42	0.177
6.00	0.000	17.25	0.092	28.50	0.002	39.75	0.173	51.00	0.005	62.25	0.218	73.50	0.015	84.75	0.260	96.00	0.047	107.25	0.334	118.50	0.171
6.08	0.000	17.33	0.093	28.58	0.002	39.83	0.173	51.08	0.005	62.33	0.220	73.58	0.015	84.83	0.264	96.08	0.045	107.33	0.344	118.58	0.165
6.17	0.000	17.42	0.093	28.67	0.001	39.92	0.174	51.17	0.005	62.42	0.222	73.67	0.014	84.92	0.268	96.17	0.043	107.42	0.353	118.67	0.160
6.25	0.000	17.50	0.093	28.75	0.001	40.00	0.174	51.25	0.005	62.50	0.223	73.75	0.013	85.00	0.273	96.25	0.041	107.50	0.363	118.75	0.154
6.33	0.000	17.58	0.093	28.83	0.001	40.08	0.174	51.33	0.004	62.58	0.225	73.83	0.013	85.08	0.277	96.33	0.040	107.58	0.372	118.83	0.149
6.42	0.000	17.67	0.093	28.92	0.001	40.17	0.174	51.42	0.004	62.67	0.226	73.92	0.012	85.17	0.281	96.42	0.038	107.67	0.382	118.92	0.144
6.50	0.000	17.75	0.093	29.00	0.001	40.25	0.174	51.50	0.004	62.75	0.228	74.00	0.012	85.25	0.285	96.50	0.037	107.75	0.391	119.00	0.139
6.58	0.000	17.83	0.093	29.08	0.001	40.33	0.174	51.58	0.004	62.83	0.229	74.08	0.011	85.33	0.289	96.58	0.035	107.83	0.400	119.08	0.134
6.67	0.000	17.92	0.092	29.17	0.001	40.42	0.174	51.67	0.004	62.92	0.231	74.17	0.011	85.42	0.293	96.67	0.034	107.92	0.410	119.17	0.129
6.75	0.000	18.00	0.092	29.25	0.001	40.50	0.174	51.75	0.003	63.00	0.232	74.25	0.010	85.50	0.296	96.75	0.033	108.00	0.419	119.25	0.124
6.83	0.000	18.08	0.092	29.33	0.001	40.58	0.174	51.83	0.003	63.08	0.233	74.33	0.010	85.58	0.300	96.83	0.031	108.08	0.428	119.33	0.120
6.92	0.000	18.17	0.091	29.42	0.001	40.67	0.174	51.92	0.003	63.17	0.234	74.42	0.009	85.67	0.303	96.92	0.030	108.17	0.437	119.42	0.116
7.00	0.000	18.25	0.091	29.50	0.001	40.75	0.173	52.00	0.003	63.25	0.235	74.50	0.009	85.75	0.307	97.00	0.029	108.25	0.446	119.50	0.111
7.08	0.000	18.33	0.090	29.58	0.001	40.83	0.173	52.08	0.003	63.33	0.236	74.58	0.009	85.83	0.310	97.08	0.028	108.33	0.455	119.58	0.107
7.17	0.000	18.42	0.090	29.67	0.001	40.92	0.172	52.17	0.003	63.42	0.237	74.67	0.008	85.92	0.314	97.17	0.027	108.42	0.464	119.67	0.103
7.25	0.000	18.50	0.089	29.75	0.001	41.00	0.172	52.25	0.003	63.50	0.238	74.75	0.008	86.00	0.317	97.25	0.026	108.50	0.473	119.75	0.100
7.33	0.000	18.58	0.089	29.83	0.001	41.08	0.171	52.33	0.002	63.58	0.238	74.83	0.008	86.08	0.320	97.33	0.024	108.58	0.482	119.83	0.096
7.42	0.000	18.67	0.088	29.92	0.001	41.17	0.170	52.42	0.002	63.67	0.239	74.92	0.007	86.17	0.323	97.42	0.023	108.67	0.490	119.92	0.092
7.50	0.000	18.75	0.087	30.00	0.001	41.25	0.169	52.50	0.002	63.75	0.239	75.00	0.007	86.25	0.326	97.50	0.023	108.75	0.499	120.00	0.089
7.58	0.000	18.83	0.086	30.08	0.001	41.33	0.169	52.58	0.002	63.83	0.239	75.08	0.007	86.33	0.328	97.58	0.022	108.83	0.507	120.08	0.085
7.67	0.000	18.92	0.085	30.17	0.001	41.42	0.168	52.67	0.002	63.92	0.240	75.17	0.006	86.42	0.331	97.67	0.021	108.92	0.515	120.17	0.082
7.75	0.000	19.00	0.084	30.25	0.001	41.50	0.167	52.75	0.002	64.00	0.240	75.25	0.006	86.50	0.333	97.75	0.020	109.00	0.523	120.25	0.079
7.83	0.000	19.08	0.083	30.33	0.001	41.58	0.166	52.83	0.002	64.08	0.240	75.33	0.006	86.58	0.336	97.83	0.019	109.08	0.531	120.33	0.076
7.92	0.000	19.17	0.082	30.42	0.001	41.67	0.164	52.92	0.002	64.17	0.240	75.42	0.005	86.67	0.338	97.92	0.018	109.17	0.539	120.42	0.073
8.00	0.000	19.25	0.081	30.50	0.001	41.75	0.163	53.00	0.002	64.25	0.240	75.50	0.005	86.75	0.340	98.00	0.017	109.25	0.546	120.50	0.070
8.08	0.000	19.33	0.079	30.58	0.001	41.83	0.162	53.08	0.001	64.33	0.240	75.58	0.005	86.83	0.342	98.08	0.017	109.33	0.554	120.58	0.067
8.17	0.000	19.42	0.078	30.67	0.001	41.92	0.161	53.17	0.001	64.42	0.239	75.67	0.005	86.92	0.344	98.17	0.016	109.42	0.561	120.67	0.065
8.25	0.000	19.50	0.077	30.75	0.001	42.00	0.159	53.25	0.001	64.50	0.239	75.75	0.005	87.00	0.346	98.25	0.015	109.50	0.568	120.75	0.062
8.33	0.000	19.58	0.076	30.83	0.001	42.08	0.158	53.33	0.001	64.58	0.239	75.83	0.004	87.08	0.347	98.33	0.015	109.58	0.575	120.83	0.060
8.42	0.000	19.67	0.074	30.92	0.002	42.17	0.156	53.42	0.001	64.67	0.238	75.92	0.004	87.17	0.349	98.42	0.014	109.67	0.582	120.92	0.057
8.50	0.000	19.75	0.073	31.00	0.002	42.25	0.154	53.50	0.001	64.75	0.237	76.00	0.004	87.25	0.350	98.50	0.013	109.75	0.588	121.00	0.055
8.58	0.000	19.83	0.072	31.08	0.002	42.33	0.153	53.58	0.001	64.83	0.237	76.08	0.004	87.33	0.352	98.58	0.013	109.83	0.595	121.08	0.053
8.67	0.000	19.92	0.070	31.17	0.003	42.42	0.151	53.67	0.001	64.92	0.236	76.17	0.004	87.42	0.353	98.67	0.012	109.92	0.601	121.17	0.051
8.75	0.000	20.00	0.069	31.25	0.003	42.50	0.149	53.75	0.001	65.00	0.235	76.25	0.003	87.50	0.354	98.75	0.012	110.00	0.607	121.25	0.049
8.83	0.000	20.08	0.067	31.33	0.003	42.58	0.147	53.83	0.001	65.08	0.234	76.33	0.003	87.58	0.355	98.83	0.011	110.08	0.613	121.33	0.047
8.92	0.000	20.17	0.066	31.42	0.004	42.67	0.145	53.92	0.001	65.17	0.233	76.42	0.003	87.67	0.355	98.92	0.011	110.17	0.618	121.42	0.045
9.00	0.000	20.25	0.064	31.50	0.004	42.75	0.143	54.00	0.001	65.25	0.231	76.50	0.003	87.75	0.356	99.00	0.010	110.25	0.624	121.50	0.043
9.08	0.000	20.33	0.063	31.58	0.005	42.83	0.141	54.08	0.001	65.33	0.230	76.58	0.003	87.83	0.356	99.08	0.010	110.33	0.629	121.58	0.041
9.17	0.000	20.42	0.062	31.67	0.006	42.92	0.139	54.17	0.001	65.42	0.229	76.67	0.003	87.92	0.357	99.17	0.009	110.42	0.634	121.67	0.039
9.25	0.000	20.50	0.060	31.75	0.006	43.00	0.137	54.25	0.001	65.50	0.227	76.75	0.002	88.00	0.357	99.25	0.009	110.50	0.639	121.75	0.038
9.33	0.000	20.58	0.059	31.83	0.007	43.08	0.135	54.33	0.001	65.58	0.226	76.83	0.002	88.08	0.357	99.33	0.008	110.58	0.643	121.83	0.036
9.42	0.000	20.67	0.057	31.92	0.008	43.17	0.132	54.42	0.001	65.67	0.224	76.92	0.002	88.17	0.357	99.42	0.008	110.67	0.647	121.92	0.035
9.50	0.000	20.75	0.056	32.00	0.009	43.25	0.130	54.50	0.001	65.75	0.222	77.00	0.002	88.25	0.357	99.50	0.008	110.75	0.651	122.00	0.033
9.58	0.000	20.83	0.054	32.08	0.010	43.33	0.128	54.58	0.001	65.83	0.220	77.08	0.002	88.33	0.356	99.58	0.007	110.83	0.655	122.08	0.032
9.67	0.000	20.92	0.053	32.17	0.011	43.42	0.125	54.67	0.001	65.92	0.218	77.17	0.002	88.42	0.356	99.67	0.007	110.92	0.659	122.17	0.030
9.75	0.000	21.00	0.052	32.25	0.012	43.50	0.123	54.75	0.002	66.00	0.216	77.25	0.002	88.50	0.355	99.75	0.007	111.00	0.662	122.25	0.029
9.83	0.000	21.08	0.050	32.33	0.013	43.58	0.120	54.83	0.002	66.08	0.214	77.33	0.002	88.58	0.354	99.83	0.006	111.08	0.665	122.33	0.028
9.92	0.000	21.17	0.049	32.42	0.014	43.67	0.118	54.92	0.002	66.17	0.212	77.42	0.002	88.67	0.353	99.92	0.006	111.17	0.668	122.42	0.027
10.00	0.000	21.25	0.048	32.50	0.015	43.75	0.116	55.00	0.003	66.25	0.210	77.50	0.001	88.75	0.352	100.00	0.006	111.25	0.671	122.50	0.025
10.08	0.000	21.33	0.046	32.58	0.017	43.83	0.113	55.08	0.003	66.33	0.207	77.58	0.001	88.83	0.351	100.08	0.005	111.33	0.673	122.58	0.024
10.17	0.000	21.42	0.045	32.67	0.018	43.92	0.111	55.17	0.004	66.42	0.205	77.67	0.001	88.92	0.350	100.17	0.005	111.42	0.675	122.67	0.023
10.25	0.000	21.50	0.044	32.75	0.019	44.00	0.108	55.25	0.004	66.50	0.202	77.75	0.001	89.00	0.348	100.25	0.005	111.50	0.677	122.75	0.022
10.33	0.000	21.58	0.042	32.83	0.021	44.08	0.106	55.33	0.005	66.58	0.200	77.83	0.001	89.08	0.347	100.33	0.005	111.58	0.679	122.83	0.021
10.42	0.000	21.67	0.041	32.92	0.022	44.17	0.103	55.42	0.006	66.67	0.197	77.92	0.001	89.17	0.345	100.42	0.004	111.67	0.680	122.92	0.020
10.50	0.001	21.75	0.040	33.00	0.024	44.25	0.101	55.50	0.007	66.75	0.194	78.00	0.001	89.25	0.343	100.50	0.004	111.75	0.681	123.00	0.019
10.58	0.001	21.83	0.039	33.08	0.025	44.33	0.098	55.58	0.008	66.83	0.191	78.08	0.001	89.33	0.341	100.58	0.004	111.83	0.682	123.08	0.018
10.67	0.001	21.92	0.038	33.17	0.027	44.42	0.096	55.67	0.009	66.92	0.188	78.17	0.001	89.42	0.339	100.67	0.004	111.92	0.682	123.17	0.018
10.75	0.001	22.00	0.037	33.25	0.028	44.50	0.093	55.75	0.010	67.00	0.185	78.25	0.001	89.50	0.337	100.75	0.004	112.00	0.683	123.25	0.017
10.83	0.002	22.08	0.035	33.33	0.030	44.58	0.091	55.83	0.011	67.08	0.182	78.33	0.001	89.58	0.334	100.83	0.003	112.08	0.683	123.33	0.016
10.92	0.002	22.17	0.034	33.42	0.032	44.67	0.089	55.92	0.012	67.17	0.179	78.42	0.001	89.67	0.332	100.92	0.003	112.17	0.683	123.42	0.015
11.00	0.002	22.25	0.033	33.50	0.034	44.75	0.086	56.00	0.013	67.25	0.176	78.50	0.001	89.75	0.329	101.00	0.003	112.25	0.682	123.50	0.015
11.08	0.003	22.33	0.032	33.58	0.036	44.83	0.084	56.08	0.015	67.33	0.172	78.58	0.002	89.83	0.326	101.08	0.003	112.33	0.682	123.58	0.014
11.17	0.003	22.42	0.031	33.67	0.037	44.92	0.082	56.17	0.016	67.42	0.169	78.67	0.002	89.92	0.323	101.17	0.003	112.42	0.681	123.67	0.013

TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
123.75	0.013	135.00	0.421	146.25	0.018	157.50	0.248	168.75	0.027	180.00	0.130	191.25	0.038	202.50	0.059	213.75	0.054	225.00	0.029	236.25	0.107
123.83	0.012	135.08	0.423	146.33	0.018	157.58	0.251	168.83	0.026	180.08	0.133	191.33	0.037	202.58	0.061	213.83	0.052	225.08	0.031	236.33	0.105
123.92	0.011	135.17	0.425	146.42	0.017	157.67	0.254	168.92	0.025	180.17	0.136	191.42	0.036	202.67	0.063	213.92	0.050	225.17	0.033	236.42	0.102
124.00	0.011	135.25	0.426	146.50	0.016	157.75	0.257	169.00	0.024	180.25	0.139	191.50	0.034	202.75	0.065	214.00	0.049	225.25	0.035	236.50	0.100
124.08	0.010	135.33	0.428	146.58	0.015	157.83	0.260	169.08	0.023	180.33	0.141	191.58	0.033	202.83	0.067	214.08	0.047	225.33	0.037	236.58	0.097
124.17	0.010	135.42	0.429	146.67	0.015	157.92	0.262	169.17	0.022	180.42	0.144	191.67	0.032	202.92	0.070	214.17	0.046	225.42	0.039	236.67	0.094
124.25	0.009	135.50	0.430	146.75	0.014	158.00	0.265	169.25	0.021	180.50	0.147	191.75	0.031	203.00	0.072	214.25	0.044	225.50	0.041	236.75	0.092
124.33	0.009	135.58	0.431	146.83	0.013	158.08	0.267	169.33	0.020	180.58	0.150	191.83	0.030	203.08	0.074	214.33	0.043	225.58	0.044	236.83	0.089
124.42	0.008	135.67	0.432	146.92	0.013	158.17	0.270	169.42	0.019	180.67	0.152	191.92	0.029	203.17	0.076	214.42	0.041	225.67	0.046	236.92	0.087
124.50	0.008	135.75	0.433	147.00	0.012	158.25	0.272	169.50	0.019	180.75	0.155	192.00	0.027	203.25	0.078	214.50	0.040	225.75	0.048	237.00	0.085
124.58	0.008	135.83	0.433	147.08	0.012	158.33	0.274	169.58	0.018	180.83	0.157	192.08	0.026	203.33	0.081	214.58	0.039	225.83	0.051	237.08	0.082
124.67	0.007	135.92	0.434	147.17	0.011	158.42	0.276	169.67	0.017	180.92	0.160	192.17	0.025	203.42	0.083	214.67	0.037	225.92	0.053	237.17	0.080
124.75	0.007	136.00	0.434	147.25	0.011	158.50	0.279	169.75	0.016	181.00	0.162	192.25	0.024	203.50	0.085	214.75	0.036	226.00	0.055	237.25	0.078
124.83	0.006	136.08	0.434	147.33	0.010	158.58	0.280	169.83	0.016	181.08	0.165	192.33	0.023	203.58	0.087	214.83	0.035	226.08	0.058	237.33	0.075
124.92	0.006	136.17	0.434	147.42	0.010	158.67	0.282	169.92	0.015	181.17	0.167	192.42	0.023	203.67	0.090	214.92	0.034	226.17	0.060	237.42	0.073
125.00	0.006	136.25	0.433	147.50	0.009	158.75	0.284	170.00	0.014	181.25	0.170	192.50	0.022	203.75	0.092	215.00	0.032	226.25	0.063	237.50	0.071
125.08	0.005	136.33	0.433	147.58	0.009	158.83	0.286	170.08	0.014	181.33	0.172	192.58	0.021	203.83	0.094	215.08	0.031	226.33	0.065	237.58	0.069
125.17	0.005	136.42	0.432	147.67	0.008	158.92	0.287	170.17	0.013	181.42	0.174	192.67	0.020	203.92	0.096	215.17	0.030	226.42	0.068	237.67	0.067
125.25	0.005	136.50	0.432	147.75	0.008	159.00	0.289	170.25	0.013	181.50	0.176	192.75	0.019	204.00	0.098	215.25	0.029	226.50	0.070	237.75	0.065
125.33	0.005	136.58	0.431	147.83	0.008	159.08	0.290	170.33	0.012	181.58	0.178	192.83	0.018	204.08	0.100	215.33	0.028	226.58	0.073	237.83	0.063
125.42	0.004	136.67	0.429	147.92	0.007	159.17	0.291	170.42	0.012	181.67	0.181	192.92	0.018	204.17	0.103	215.42	0.027	226.67	0.076	237.92	0.061
125.50	0.004	136.75	0.428	148.00	0.007	159.25	0.292	170.50	0.011	181.75	0.183	193.00	0.017	204.25	0.105	215.50	0.026	226.75	0.078	238.00	0.059
125.58	0.004	136.83	0.427	148.08	0.007	159.33	0.293	170.58	0.011	181.83	0.185	193.08	0.016	204.33	0.107	215.58	0.025	226.83	0.081	238.08	0.057
125.67	0.004	136.92	0.425	148.17	0.006	159.42	0.294	170.67	0.010	181.92	0.186	193.17	0.016	204.42	0.109	215.67	0.024	226.92	0.084	238.17	0.055
125.75	0.003	137.00	0.423	148.25	0.006	159.50	0.295	170.75	0.010	182.00	0.188	193.25	0.015	204.50	0.111	215.75	0.023	227.00	0.086	238.25	0.053
125.83	0.003	137.08	0.421	148.33	0.006	159.58	0.296	170.83	0.009	182.08	0.190	193.33	0.014	204.58	0.113	215.83	0.022	227.08	0.089	238.33	0.051
125.92	0.003	137.17	0.419	148.42	0.005	159.67	0.296	170.92	0.009	182.17	0.192	193.42	0.014	204.67	0.115	215.92	0.022	227.17	0.092	238.42	0.050
126.00	0.003	137.25	0.417	148.50	0.005	159.75	0.297	171.00	0.008	182.25	0.193	193.50	0.013	204.75	0.117	216.00	0.021	227.25	0.094	238.50	0.048
126.08	0.003	137.33	0.414	148.58	0.005	159.83	0.297	171.08	0.008	182.33	0.195	193.58	0.013	204.83	0.119	216.08	0.020	227.33	0.097	238.58	0.046
126.17	0.002	137.42	0.412	148.67	0.005	159.92	0.297	171.17	0.008	182.42	0.197	193.67	0.012	204.92	0.121	216.17	0.019	227.42	0.100	238.67	0.045
126.25	0.002	137.50	0.409	148.75	0.004	160.00	0.297	171.25	0.007	182.50	0.198	193.75	0.012	205.00	0.123	216.25	0.018	227.50	0.102	238.75	0.043
126.33	0.002	137.58	0.406	148.83	0.004	160.08	0.297	171.33	0.007	182.58	0.199	193.83	0.011	205.08	0.124	216.33	0.018	227.58	0.105	238.83	0.042
126.42	0.002	137.67	0.403	148.92	0.004	160.17	0.297	171.42	0.007	182.67	0.201	193.92	0.011	205.17	0.126	216.42	0.017	227.67	0.108	238.92	0.040
126.50	0.003	137.75	0.399	149.00	0.004	160.25	0.297	171.50	0.006	182.75	0.202	194.00	0.010	205.25	0.128	216.50	0.016	227.75	0.110	239.00	0.039
126.58	0.003	137.83	0.396	149.08	0.003	160.33	0.297	171.58	0.006	182.83	0.203	194.08	0.010	205.33	0.130	216.58	0.016	227.83	0.113	239.08	0.038
126.67	0.003	137.92	0.392	149.17	0.003	160.42	0.296	171.67	0.006	182.92	0.204	194.17	0.009	205.42	0.131	216.67	0.015	227.92	0.116	239.17	0.036
126.75	0.004	138.00	0.389	149.25	0.003	160.50	0.296	171.75	0.005	183.00	0.205	194.25	0.009	205.50	0.133	216.75	0.015	228.00	0.118	239.25	0.035
126.83	0.004	138.08	0.385	149.33	0.003	160.58	0.295	171.83	0.005	183.08	0.206	194.33	0.009	205.58	0.135	216.83	0.014	228.08	0.121	239.33	0.034
126.92	0.005	138.17	0.381	149.42	0.003	160.67	0.294	171.92	0.005	183.17	0.207	194.42	0.008	205.67	0.136	216.92	0.013	228.17	0.123	239.42	0.032
127.00	0.006	138.25	0.377	149.50	0.003	160.75	0.293	172.00	0.005	183.25	0.208	194.50	0.008	205.75	0.138	217.00	0.013	228.25	0.126	239.50	0.031
127.08	0.006	138.33	0.372	149.58	0.002	160.83	0.292	172.08	0.005	183.33	0.209	194.58	0.008	205.83	0.139	217.08	0.012	228.33	0.128	239.58	0.030
127.17	0.007	138.42	0.368	149.67	0.002	160.92	0.291	172.17	0.004	183.42	0.209	194.67	0.007	205.92	0.141	217.17	0.012	228.42	0.131	239.67	0.029
127.25	0.009	138.50	0.363	149.75	0.002	161.00	0.290	172.25	0.004	183.50	0.210	194.75	0.007	206.00	0.142	217.25	0.011	228.50	0.133	239.75	0.028
127.33	0.010	138.58	0.358	149.83	0.002	161.08	0.289	172.33	0.004	183.58	0.210	194.83	0.007	206.08	0.143	217.33	0.011	228.58	0.136	239.83	0.027
127.42	0.011	138.67	0.353	149.92	0.002	161.17	0.287	172.42	0.004	183.67	0.211	194.92	0.006	206.17	0.145	217.42	0.010	228.67	0.138	239.92	0.026
127.50	0.013	138.75	0.348	150.00	0.002	161.25	0.286	172.50	0.003	183.75	0.211	195.00	0.006	206.25	0.146	217.50	0.010	228.75	0.141	240.00	0.025
127.58	0.014	138.83	0.343	150.08	0.002	161.33	0.284	172.58	0.003	183.83	0.211	195.08	0.006	206.33	0.147	217.58	0.010	228.83	0.143	240.08	0.024
127.67	0.016	138.92	0.338	150.17	0.002	161.42	0.282	172.67	0.003	183.92	0.211	195.17	0.005	206.42	0.148	217.67	0.009	228.92	0.145	240.17	0.023
127.75	0.018	139.00	0.332	150.25	0.002	161.50	0.280	172.75	0.003	184.00	0.211	195.25	0.005	206.50	0.149	217.75	0.009	229.00	0.147	240.25	0.022
127.83	0.020	139.08	0.327	150.33	0.002	161.58	0.278	172.83	0.003	184.08	0.211	195.33	0.005	206.58	0.151	217.83	0.008	229.08	0.150	240.33	0.021
127.92	0.023	139.17	0.321	150.42	0.002	161.67	0.276	172.92	0.003	184.17	0.211	195.42	0.005	206.67	0.151	217.92	0.008	229.17	0.152	240.42	0.021
128.00	0.025	139.25	0.315	150.50	0.002	161.75	0.274	173.00	0.003	184.25	0.211	195.50	0.005	206.75	0.152	218.00	0.008	229.25	0.154	240.50	0.020
128.08	0.028	139.33	0.309	150.58	0.002	161.83	0.271	173.08	0.002	184.33	0.211	195.58	0.004	206.83	0.153	218.08	0.007	229.33	0.156	240.58	0.019
128.17	0.030	139.42	0.303	150.67	0.002	161.92	0.269	173.17	0.002	184.42	0.211	195.67	0.004	206.92	0.154	218.17	0.007	229.42	0.158	240.67	0.018
128.25	0.033	139.50	0.297	150.75	0.002	162.00	0.266	173.25	0.002	184.50	0.210	195.75	0.004	207.00	0.155	218.25	0.007	229.50	0.160	240.75	0.017
128.33	0.036	139.58	0.291	150.83	0.003	162.08	0.264	173.33	0.002	184.58	0.210	195.83	0.004	207.08	0.156	218.33	0.007	229.58	0.162	240.83	0.017
128.42	0.040	139.67	0.285	150.92	0.003	162.17	0.261	173.42	0.002	184.67	0.209	195.92	0.004	207.17	0.156	218.42	0.006	229.67	0.164	240.92	0.016
128.50	0.043	139.75	0.279	151.00	0.004	162.25	0.258	173.50	0.002	184.75	0.209	196.00	0.003	207.25	0.157	218.50	0.006	229.75	0.166	241.00	0.015
128.58	0.046	139.83	0.273	151.08	0.004	162.33	0.255	173.58	0.002	184.83	0.208	196.08	0.003	207.33	0.157	218.58	0.006	229.83	0.167	241.08	0.015
128.67	0.050	139.92	0.267	151.17	0.005	162.42	0.252	173.67	0.002	184.92	0.207	196.17	0.003	207.42	0.158	218.67	0.005	229.92	0.169	241.17	0.014
128.75	0.054	140.00	0.261	151.25	0.006	162.50	0.249	173.75	0.001	185.00	0.206	196.25	0.003	207.50	0.158	218.75	0.005	230.00	0.171	241.25	0.014
128.83	0.058	140.08	0.255	151.33	0.007	162.58	0.246	173.83	0.001	185.08	0.205	196.33	0.003	207.58	0.159	218.83	0.005	230.08	0.172	241.33	0.013
128.92	0.062	140.17	0.249	151.42	0.008	162.67	0.242	173.92	0.001	185.17	0.204	196.42	0.003	207.67	0.159	218.92	0.005	230.17	0.174	241.42	0.013
129.00	0.066	140.25	0.243	151.50	0.009	162.75	0.239	174.00	0.001	185.25	0.203	196.50	0.002	207.75	0.159	219.00	0.005	230.25	0.176	241.50	0.012
129.08	0.070	140.33	0.237	151.58	0.010	162.83	0.235	174.08	0.001	185.33	0.202	196.58	0.002	207.83	0.159	219.08	0.004	230.33	0.177	241.58	0.012
129.17	0.075	140.42	0.231	151.67	0.011	162.92	0.231	174.17	0.001	185.42	0.201	196.67	0.002	207.92	0.160	219.17	0.004	230.42	0.178	241.67	0.011
129.25	0.079	140.50	0.225	151.75	0.013	163.00	0.228	174.25	0.001	185.50	0.199	196.75	0.002	208.00	0.160	219.25	0.004	230.50	0.180	241.75	0.011
129.33	0.084	140.58	0.219	151.83	0.014	163.08	0.224	174.33	0.001	185.58	0.198	196.83	0.002	208.08	0.160	219.33	0.004	230.58	0.181	241.83	0.010
129.42	0.089	140.67	0.214	151.92	0.016	163.17	0.220	174.42	0.001	185.67	0.196	196.92	0.002	208.17	0.160	219.42	0.004	230.67	0.182	241.92	0.010
129.50	0.094	140.75	0.208	152.00	0.017	163.25	0.216	174.50	0.001	185.75	0.195	197.00	0.002	208.25	0.159	219.50	0.003	230.75	0.183	242.00	0.009
129.58	0.099	140.83	0.202	152.08	0.019	163.33	0.212	174.58	0.001	185.83	0.193	197.08	0.002	208.33	0.159	219.58	0.003	230.83	0.184	242.08	0.009
129.67	0.104	140.92	0.197	152.17	0.021	163.42	0.208	174.67	0.002	185.92	0.191	197.17	0.002	208.42	0.159	219.67	0.003	230.92	0.185	242.17	0.009
129.75	0.109	141.00	0.191	152.25	0.023	163.50	0.204	174.75	0.002	186.00	0.189	197.25	0.002	208.50	0.159	219.75	0.003	231.00	0.186	242.25	0.008
129.83	0.114	141.08	0.186	152.33	0.025	163.58	0.200	174.83	0.002	186.08	0.187	197.33	0.001	208.58	0.158	219.83	0.003	231.08	0.187	242.33	0.008
129.92	0.120	141.17	0.181	152.42	0.027	163.67	0.196	174.92	0.002	186.17	0.185	197.42	0.001	208.67	0.158	219.92	0.003	231.17	0.188	242.42	0.007
130.00	0.125	141.25	0.175	152.50	0.029	163.75	0.191	175.00	0.003	186.25	0.183	197.50	0.001	208.75	0.157	220.00	0.003	231.25	0.189	242.50	0.007
130.08	0.131	141.33	0.170	152.58	0.032	163.83	0.187	175.08	0.003	186.33	0.181	197.58	0.001	208.83	0.157	220.08	0.002	231.33	0.189	242.58	0.007
130.17	0.136	141.42	0.165	152.67	0.034	163.92	0.183	175.17	0.004	186.42	0.179	197.67	0.001	208.92	0.156	220.17	0.002	231.42	0.190	242.67	0.007
130.25	0.142	141.50	0.160	152.75	0.037	164.00	0.179	175.25	0.004	186.50	0.177	197.75	0.001	209.00	0.156	220.25	0.002	231.50	0.190	242.75	0.006
130.33	0.148	141.58	0.155	152.83	0.040	164.08	0.175	175.33	0.005	186.58	0.175	197.83	0.001	209.08	0.155	220.33	0.002	231.58	0.191	242.83	0.006
130.42	0.153	141.67	0.151	152.92	0.042	164.17	0.171	175.42	0.005	186.67	0.172	197.92	0.001	209.17	0.154	220.42	0.002	231.67	0.191	242.92	0.006
130.50	0.159	141.75	0.146	153.00	0.045	164.25	0.167	175.50	0.006	186.75	0.170	198.00	0.001	209.25	0.153	220.50	0.002	231.75	0.191	243.00	0.005
130.58	0.165	141.83	0.141	153.08	0.048	164.33	0.162	175.58	0.007	186.83	0.167	198.08	0.001	209.33	0.152	220.58	0.002	231.83	0.192	243.08	0.005
130.67	0.171	141.92	0.137	153.17	0.051	164.42	0.158	175.67	0.008	186.92	0.164	198.17	0.001	209.42	0.151	220.67	0.002	231.92	0.192	243.17	0.005
130.75	0.177	142.00	0.133	153.25	0.054	164.50	0.154	175.75	0.009	187.00	0.162	198.25	0.001	209.50	0.150	220.75	0.002	232.00	0.192	243.25	0.005
130.83	0.183	142.08	0.128	153.33	0.058	164.58	0.150	175.83	0.010	187.08	0.159	198.33	0.001	209.58	0.149	220.83	0.002	232.08	0.192	243.33	0.005
130.92	0.189	142.17	0.124	153.42	0.061	164.67	0.146	175.92	0.011	187.17	0.156	198.42	0.001	209.67	0.148	220.92	0.001	232.17	0.192	243.42	0.004
131.00	0.195	142.25	0.120	153.50	0.064	164.75	0.143	176.00	0.012	187.25	0.154	198.50	0.001	209.75	0.147	221.00	0.001	232.25	0.192	243.50	0.004
131.08	0.201	142.33	0.116	153.58	0.068	164.83	0.139	176.08	0.014	187.33	0.151	198.58	0.001	209.83	0.146	221.08	0.001	232.33	0.191	243.58	0.004
131.17	0.207	142.42	0.112	153.67	0.071	164.92	0.135	176.17	0.015	187.42	0.148	198.67	0.001	209.92	0.144	221.17	0.001	232.42	0.191	243.67	0.004
131.25	0.213	142.50	0.109	153.75	0.075	165.00	0.131	176.25	0.016	187.50	0.145	198.75	0.001	210.00	0.143	221.25	0.001	232.50	0.191	243.75	0.004
131.33	0.219	142.58	0.105	153.83	0.078	165.08	0.127	176.33	0.018	187.58	0.142	198.83	0.002	210.08	0.141	221.33	0.001	232.58	0.190	243.83	0.003
131.42	0.225	142.67	0.101	153.92	0.082	165.17	0.124	176.42	0.019	187.67	0.139	198.92	0.002	210.17	0.140	221.42	0.001	232.67	0.190	243.92	0.003
131.50	0.231	142.75	0.098	154.00	0.086	165.25	0.120	176.50	0.021	187.75	0.136	199.00	0.002	210.25	0.138	221.50	0.001	232.75	0.189	244.00	0.003
131.58	0.237	142.83	0.094	154.08	0.090	165.33	0.117	176.58	0.023	187.83	0.133	199.08	0.002	210.33	0.137	221.58	0.001	232.83	0.189	244.08	0.003
131.67	0.243	142.92	0.091	154.17	0.093	165.42	0.113	176.67	0.024	187.92	0.130	199.17	0.003	210.42	0.135	221.67	0.001	232.92	0.188	244.17	0.003
131.75	0.249	143.00	0.088	154.25	0.097	165.50	0.110	176.75	0.026	188.00	0.127	199.25	0.003	210.50	0.134	221.75	0.001	233.00	0.187	244.25	0.003
131.83	0.255	143.08	0.085	154.33	0.101	165.58	0.106	176.83	0.028	188.08	0.124	199.33	0.004	210.58	0.132	221.83	0.001	233.08	0.186	244.33	0.003
131.92	0.261	143.17	0.082	154.42	0.105	165.67	0.103	176.92	0.030	188.17	0.121	199.42	0.004	210.67	0.130	221.92	0.001	233.17	0.185	244.42	0.002
132.00	0.267	143.25	0.079	154.50	0.109	165.75	0.100	177.00	0.032	188.25	0.118	199.50	0.005	210.75	0.128	222.00	0.001	233.25	0.184	244.50	0.002
132.08	0.273	143.33	0.076	154.58	0.113	165.83	0.097	177.08	0.034	188.33	0.115	199.58	0.005	210.83	0.126	222.08	0.001	233.33	0.183	244.58	0.002
132.17	0.279	143.42	0.073	154.67	0.117	165.92	0.094	177.17	0.036	188.42	0.113	199.67	0.006	210.92	0.124	222.17	0.001	233.42	0.182	244.67	0.002
132.25	0.284	143.50	0.071	154.75	0.121	166.00	0.091	177.25	0.039	188.50	0.110	199.75	0.007	211.00	0.122	222.25	0.001	233.50	0.181	244.75	0.002
132.33	0.290	143.58	0.068	154.83	0.125	166.08	0.088	177.33	0.041	188.58	0.107	199.83	0.008	211.08	0.120	222.33	0.001	233.58	0.179	244.83	0.002
132.42	0.296	143.67	0.066	154.92	0.130	166.17	0.085	177.42	0.043	188.67	0.104	199.92	0.008	211.17	0.118	222.42	0.001	233.67	0.178	244.92	0.002
132.50	0.301	143.75	0.063	155.00	0.134	166.25	0.082	177.50	0.046	188.75	0.101	200.00	0.009	211.25	0.116	222.50	0.001	233.75	0.177	245.00	0.002
132.58	0.307	143.83	0.061	155.08	0.138	166.33	0.080	177.58	0.048	188.83	0.099	200.08	0.010	211.33	0.114	222.58	0.001	233.83	0.175	245.08	0.002
132.67	0.312	143.92	0.059	155.17	0.142	166.42	0.077	177.67	0.051	188.92	0.096	200.17	0.011	211.42	0.112	222.67	0.001	233.92	0.173	245.17	0.001
132.75	0.318	144.00	0.056	155.25	0.146	166.50	0.074	177.75	0.053	189.00	0.093	200.25	0.012	211.50	0.109	222.75	0.001	234.00	0.172	245.25	0.001
132.83	0.323	144.08	0.054	155.33	0.150	166.58	0.072	177.83	0.056	189.08	0.091	200.33	0.013	211.58	0.107	222.83	0.002	234.08	0.170	245.33	0.001
132.92	0.328	144.17	0.052	155.42	0.154	166.67	0.069	177.92	0.058	189.17	0.088	200.42	0.015	211.67	0.105	222.92	0.002	234.17	0.168	245.42	0.001
133.00	0.333	144.25	0.050	155.50	0.159	166.75	0.067	178.00	0.061	189.25	0.085	200.50	0.016	211.75	0.103	223.00	0.002	234.25	0.166	245.50	0.001
133.08	0.338	144.33	0.048	155.58	0.163	166.83	0.065	178.08	0.064	189.33	0.083	200.58	0.017	211.83	0.100	223.08	0.003	234.33	0.165	245.58	0.001
133.17	0.343	144.42	0.046	155.67	0.167	166.92	0.062	178.17	0.066	189.42	0.080	200.67	0.018	211.92	0.098	223.17	0.003	234.42	0.163	245.67	0.001
133.25	0.348	144.50	0.045	155.75	0.171	167.00	0.060	178.25	0.069	189.50	0.078	200.75	0.020	212.00	0.096	223.25	0.004	234.50	0.161	245.75	0.001
133.33	0.353	144.58	0.043	155.83	0.175	167.08	0.058	178.33	0.072	189.58	0.076	200.83	0.021	212.08	0.094	223.33	0.004	234.58	0.158	245.83	0.001
133.42	0.357	144.67	0.041	155.92	0.179	167.17	0.056	178.42	0.075	189.67	0.073	200.92	0.023	212.17	0.092	223.42	0.005	234.67	0.156	245.92	0.001
133.50	0.362	144.75	0.039	156.00	0.183	167.25	0.054	178.50	0.078	189.75	0.071	201.00	0.024	212.25	0.089	223.50	0.006	234.75	0.154	246.00	0.001
133.58	0.366	144.83	0.038	156.08	0.187	167.33	0.052	178.58	0.080	189.83	0.069	201.08	0.026	212.33	0.087	223.58	0.006	234.83	0.152	246.08	0.001
133.67	0.370	144.92	0.036	156.17	0.191	167.42	0.050	178.67	0.083	189.92	0.067	201.17	0.028	212.42	0.085	223.67	0.007	234.92	0.149	246.17	0.001
133.75	0.375	145.00	0.035	156.25	0.195	167.50	0.048	178.75	0.086	190.00	0.065	201.25	0.029	212.50	0.083	223.75	0.008	235.00	0.147	246.25	0.001
133.83	0.379	145.08	0.034	156.33	0.199	167.58	0.047	178.83	0.089	190.08	0.063	201.33	0.031	212.58	0.081	223.83	0.009	235.08	0.144	246.33	0.001
133.92	0.382	145.17	0.032	156.42	0.203	167.67	0.045	178.92	0.092	190.17	0.060	201.42	0.033	212.67	0.079	223.92	0.010	235.17	0.142	246.42	0.001
134.00	0.386	145.25	0.031	156.50	0.207	167.75	0.043	179.00	0.095	190.25	0.059	201.50	0.034	212.75	0.076	224.00	0.011	235.25	0.139	246.50	0.001
134.08	0.390	145.33	0.030	156.58	0.210	167.83	0.042	179.08	0.098	190.33	0.057	201.58	0.036	212.83	0.074	224.08	0.012	235.33	0.137	246.58	0.001
134.17	0.393	145.42	0.028	156.67	0.214	167.92	0.040	179.17	0.101	190.42	0.055	201.67	0.038	212.92	0.072	224.17	0.013	235.42	0.134	246.67	0.000
134.25	0.397	145.50	0.027	156.75	0.218	168.00	0.039	179.25	0.104	190.50	0.053	201.75	0.040	213.00	0.070	224.25	0.015	235.50	0.131	246.75	0.000
134.33	0.400	145.58	0.026	156.83	0.221	168.08	0.037	179.33	0.107	190.58	0.051	201.83	0.042	213.08	0.068	224.33	0.016	235.58	0.129	246.83	0.000
134.42	0.403	145.67	0.025	156.92	0.225	168.17	0.036	179.42	0.110	190.67	0.049	201.92	0.044	213.17	0.066	224.42	0.018	235.67	0.126	246.92	0.000
134.50	0.406	145.75	0.024	157.00	0.228	168.25	0.034	179.50	0.113	190.75	0.048	202.00	0.046	213.25	0.064	224.50	0.019	235.75	0.123	247.00	0.000
134.58	0.409	145.83	0.023	157.08	0.232	168.33	0.033	179.58	0.116	190.83	0.046	202.08	0.048	213.33	0.063	224.58	0.021	235.83	0.121	247.08	0.000
134.67	0.412	145.92	0.022	157.17	0.235	168.42	0.032	179.67	0.119	190.92	0.044	202.17	0.050	213.42	0.061	224.67	0.022	235.92	0.118	247.17	0.000
134.75	0.414	146.00	0.021	157.25	0.239	168.50	0.031	179.75	0.122	191.00	0.043	202.25	0.052	213.50	0.059	224.75	0.024	236.00	0.115	247.25	0.000
134.83	0.417	146.08	0.020	157.33	0.242	168.58	0.029	179.83	0.124	191.08	0.041	202.33	0.054	213.58	0.057	224.83	0.026	236.08	0.113	247.33	0.000
134.92	0.419	146.17	0.019	157.42	0.245	168.67	0.028	179.92	0.127	191.17	0.040	202.42	0.056	213.67	0.055	224.92	0.027	236.17	0.110	247.42	0.000

VG-6 (VG SPRING)



Hydrograph Statistics:

Legend	Filename & Comment	Time Step (min)	Drainage Area (ha)	Peak Flow (cms)	Time to Peak (hrs)	Runoff Volume (mm)	Runoff Volume (cu.m)	Duration of flow (hrs)	Average flow (cms)
——○——	H-VG-6.100 : VG-6	5.00	94.20	1.504	113.917	251.81	2.372E+05	262.917	0.251

Hydrograph Table:

Hydrograph Filename : Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSPRI~1\H-VG-6.100

Comment in file : VG-6

TIME hrs	FLOW cms
0.00	0.000
0.08	0.000
0.17	0.000
0.25	0.000
0.33	0.000
0.42	0.000
0.50	0.000
0.58	0.000
0.67	0.000
0.75	0.000
0.83	0.000
0.92	0.000
1.00	0.000
1.08	0.000
1.17	0.000
1.25	0.000
1.33	0.000
1.42	0.000
1.50	0.000
1.58	0.000
1.67	0.000
1.75	0.000
1.83	0.000
1.92	0.000
2.00	0.000
2.08	0.000
2.17	0.000
2.25	0.000
2.33	0.000
2.42	0.000
2.50	0.000
2.58	0.000
2.67	0.000
2.75	0.000
2.83	0.000
2.92	0.000
3.00	0.000
3.08	0.000
3.17	0.000
3.25	0.000
3.33	0.000
3.42	0.000
3.50	0.000
3.58	0.000
3.67	0.000
3.75	0.000
3.83	0.000
3.92	0.000
4.00	0.000
4.08	0.000
4.17	0.000
4.25	0.000
4.33	0.000
4.42	0.000
4.50	0.000
4.58	0.000
4.67	0.000
4.75	0.000
4.83	0.000
4.92	0.000
5.00	0.000
5.08	0.000
5.17	0.000
5.25	0.000
5.33	0.000
5.42	0.000
5.50	0.000
5.58	0.000
5.67	0.000
5.75	0.000
5.83	0.000
5.92	0.000
6.00	0.000
6.08	0.000
6.17	0.000
6.25	0.000
6.33	0.000
6.42	0.000
6.50	0.000
6.58	0.000
6.67	0.000
6.75	0.000
6.83	0.000
6.92	0.000
7.00	0.000
7.08	0.000
7.17	0.000
7.25	0.000
7.33	0.000
7.42	0.000
7.50	0.000
7.58	0.000
7.67	0.000
7.75	0.000
7.83	0.000
7.92	0.000
8.00	0.000
8.08	0.000
8.17	0.000
8.25	0.000
8.33	0.000
8.42	0.000
8.50	0.000
8.58	0.000
8.67	0.000
8.75	0.000
8.83	0.000
8.92	0.000
9.00	0.000
9.08	0.000
9.17	0.000
9.25	0.000
9.33	0.000
9.42	0.000
9.50	0.000
9.58	0.000
9.67	0.000
9.75	0.000
9.83	0.000
9.92	0.000
10.00	0.000
10.08	0.000
10.17	0.000
10.25	0.000
10.33	0.000
10.42	0.000
10.50	0.001
10.58	0.001
10.67	0.001
10.75	0.001
10.83	0.001
10.92	0.002
11.00	0.002
11.08	0.003
11.17	0.003
11.25	0.004
11.33	0.005
11.42	0.006
11.50	0.007
11.58	0.008
11.67	0.009
11.75	0.011
11.83	0.012
11.92	0.014
12.00	0.015
12.08	0.017
12.17	0.019
12.25	0.021
12.33	0.023
12.42	0.026
12.50	0.028
12.58	0.031
12.67	0.033
12.75	0.036
12.83	0.039
12.92	0.042
13.00	0.045
13.08	0.048
13.17	0.052
13.25	0.055
13.33	0.058
13.42	0.062
13.50	0.066
13.58	0.069
13.67	0.073
13.75	0.077
13.83	0.080
13.92	0.084
14.00	0.088
14.08	0.092
14.17	0.096
14.25	0.100
14.33	0.104
14.42	0.108
14.50	0.112
14.58	0.116
14.67	0.120
14.75	0.124
14.83	0.128
14.92	0.132
15.00	0.136
15.08	0.140
15.17	0.144
15.25	0.147
15.33	0.151
15.42	0.155
15.50	0.159
15.58	0.162
15.67	0.166
15.75	0.169
15.83	0.172
15.92	0.176
16.00	0.179
16.08	0.182
16.17	0.185
16.25	0.188
16.33	0.191
16.42	0.194
16.50	0.196
16.58	0.199
16.67	0.201
16.75	0.203
16.83	0.206
16.92	0.208
17.00	0.209
17.08	0.211
17.17	0.213
17.25	0.215
17.33	0.216
17.42	0.217
17.50	0.218
17.58	0.219
17.67	0.220
17.75	0.221
17.83	0.222
17.92	0.222
18.00	0.222
18.08	0.222
18.17	0.222
18.25	0.222
18.33	0.222
18.42	0.222
18.50	0.221
18.58	0.220
18.67	0.220
18.75	0.219
18.83	0.217
18.92	0.216
19.00	0.215
19.08	0.213
19.17	0.211
19.25	0.210
19.33	0.208
19.42	0.206
19.50	0.204
19.58	0.201
19.67	0.199
19.75	0.197
19.83	0.194
19.92	0.191
20.00	0.189
20.08	0.186
20.17	0.183
20.25	0.180
20.33	0.177
20.42	0.175
20.50	0.172
20.58	0.169
20.67	0.165
20.75	0.162
20.83	0.159
20.92	0.156
21.00	0.153
21.08	0.150
21.17	0.147
21.25	0.144
21.33	0.141
21.42	0.138
21.50	0.135
21.58	0.132
21.67	0.129
21.75	0.126
21.83	0.123
21.92	0.120
22.00	0.117
22.08	0.114
22.17	0.112
22.25	0.109
22.33	0.106
22.42	0.103
22.50	0.101
22.58	0.098
22.67	0.096
22.75	0.093
22.83	0.091
22.92	0.088
23.00	0.086
23.08	0.084
23.17	0.081
23.25	0.079
23.33	0.077
23.42	0.075
23.50	0.073
23.58	0.070
23.67	0.068
23.75	0.066
23.83	0.065
23.92	0.063
24.00	0.061
24.08	0.059
24.17	0.057
24.25	0.056
24.33	0.054
24.42	0.052
24.50	0.051
24.58	0.049
24.67	0.048
24.75	0.046
24.83	0.045
24.92	0.043
25.00	0.042
25.08	0.041
25.17	0.039
25.25	0.038
25.33	0.037
25.42	0.036
25.50	0.035
25.58	0.034
25.67	0.033
25.75	0.032
25.83	0.030
25.92	0.029
26.00	0.028
26.08	0.028
26.17	0.027
26.25	0.026
26.33	0.025
26.42	0.024
26.50	0.023
26.58	0.023
26.67	0.022
26.75	0.021
26.83	0.020
26.92	0.020
27.00	0.019
27.08	0.018
27.17	0.018
27.25	0.017
27.33	0.017
27.42	0.016
27.50	0.015
27.58	0.015
27.67	0.014
27.75	0.014
27.83	0.013
27.92	0.013
28.00	0.012
28.08	0.012
28.17	0.012
28.25	0.011
28.33	0.011
28.42	0.010
28.50	0.010
28.58	0.010
28.67	0.009
28.75	0.009
28.83	0.009
28.92	0.008
29.00	0.008
29.08	0.008
29.17	0.007
29.25	0.007
29.33	0.007
29.42	0.007
29.50	0.006
29.58	0.006
29.67	0.006
29.75	0.006
29.83	0.005
29.92	0.005
30.00	0.005
30.08	0.005
30.17	0.005
30.25	0.005
30.33	0.004
30.42	0.004
30.50	0.004
30.58	0.004
30.67	0.004
30.75	0.004
30.83	0.004
30.92	0.004
31.00	0.004
31.08	0.004
31.17	0.005
31.25	0.005
31.33	0.005
31.42	0.005
31.50	0.006
31.58	0.006
31.67	0.007
31.75	0.008
31.83	0.008
31.92	0.009
32.00	0.010
32.08	0.011
32.17	0.013
32.25	0.014
32.33	0.015
32.42	0.017
32.50	0.019
32.58	0.021
32.67	0.023
32.75	0.025
32.83	0.027
32.92	0.030
33.00	0.032
33.08	0.035
33.17	0.038
33.25	0.041
33.33	0.044
33.42	0.048
33.50	0.051
33.58	0.055
33.67	0.058
33.75	0.062
33.83	0.066
33.92	0.070
34.00	0.074
34.08	0.078
34.17	0.083
34.25	0.087
34.33	0.092
34.42	0.096
34.50	0.101
34.58	0.106
34.67	0.111
34.75	0.116
34.83	0.121
34.92	0.126
35.00	0.131
35.08	0.136
35.17	0.142
35.25	0.147
35.33	0.152
35.42	0.158
35.50	0.163
35.58	0.169
35.67	0.174
35.75	0.180
35.83	0.185
35.92	0.191
36.00	0.196
36.08	0.202
36.17	0.207
36.25	0.213
36.33	0.218
36.42	0.224
36.50	0.230
36.58	0.235
36.67	0.241
36.75	0.246
36.83	0.251
36.92	0.253
37.00	0.253
37.08	0.254
37.17	0.256
37.25	0.258
37.33	0.261
37.42	0.264
37.50	0.268
37.58	0.271
37.67	0.273
37.75	0.275
37.83	0.277
37.92	0.279
38.00	0.282
38.08	0.285
38.17	0.288
38.25	0.291
38.33	0.294
38.42	0.297
38.50	0.300
38.58	0.303
38.67	0.306
38.75	0.309
38.83	0.312
38.92	0.315
39.00	0.318
39.08	0.321
39.17	0.324
39.25	0.327
39.33	0.330
39.42	0.333
39.50	0.336
39.58	0.339
39.67	0.342
39.75	0.345
39.83	0.348
39.92	0.350
40.00	0.353
40.08	0.356
40.17	0.358
40.25	0.361
40.33	0.363
40.42	0.365
40.50	0.368
40.58	0.370
40.67	0.372
40.75	0.374
40.83	0.376
40.92	0.378
41.00	0.381
41.08	0.382
41.17	0.382
41.25	0.385
41.33	0.388
41.42	0.388
41.50	0.388
41.58	0.390
41.67	0.393
41.75	0.393
41.83	0.393
41.92	0.394
42.00	0.396
42.08	0.397
42.17	0.397
42.25	0.398
42.33	0.398
42.42	0.398
42.50	0.398
42.58	0.398
42.67	0.397
42.75	0.396
42.83	0.395
42.92	0.394
43.00	0.392
43.08	0.392
43.17	0.392
43.25	0.389
43.33	0.388
43.42	0.386
43.50	0.383
43.58	0.382
43.67	0.381
43.75	0.376
43.83	0.373
43.92	0.372
44.00	0.368
44.08	0.363
44.17	0.360
44.25	0.354
44.33	0.348
44.42	0.341
44.50	0.334
44.58	0.326
44.67	0.319
44.75	0.312
44.83	0.305
44.92	0.298
45.00	0.291
45.08	0.284
45.17	0.277
45.25	0.270
45.33	0.258
45.42	0.245
45.50	0.233
45.58	0.223
45.67	0.214
45.75	0.206
45.83	0.198
45.92	0.191
46.00	0.185
46.08	0.179
46.17	0.173
46.25	0.168
46.33	0.163
46.42	0.158
46.50	0.153
46.58	0.149
46.67	0.144
46.75	0.140
46.83	0.136
46.92	0.132
47.00	0.128
47.08	0.124
47.17	0.121
47.25	0.117
47.33	0.114
47.42	0.110
47.50	0.107
47.58	0.104
47.67	0.101
47.75	0.098
47.83	0.095
47.92	0.092
48.00	0.089
48.08	0.086
48.17	0.084
48.25	0.081
48.33	0.079
48.42	0.076
48.50	0.074
48.58	0.071
48.67	0.069
48.75	0.067
48.83	0.065
48.92	0.063
49.00	0.061
49.08	0.059
49.17	0.057
49.25	0.055
49.33	0.053
49.42	0.051
49.50	0.050
49.58	0.048
49.67	0.047
49.75	0.045
49.83	0.044
49.92	0.042
50.00	0.041
50.08	0.039
50.17	0.038
50.25	0.037
50.33	0.035
50.42	0.034
50.50	0.033
50.58	0.032
50.67	0.031
50.75	0.030
50.83	0.029
50.92	0.028
51.00	0.027
51.08	0.026
51.17	0.025
51.25	0.024
51.33	0.023
51.42	0.022
51.50	0.021
51.58	0.021
51.67	0.020
51.75	0.019
51.83	0.018
51.92	0.018
52.00	0.017
52.08	0.017
52.17	0.016
52.25	0.015
52.33	0.015
52.42	0.014
52.50	0.014
52.58	0.013
52.67	0.013
52.75	0.012
52.83	0.012
52.92	0.011
53.00	0.011
53.08	0.010
53.17	0.010
53.25	0.010
53.33	0.009
53.42	0.009
53.50	0.009
53.58	0.008
53.67	0.008
53.75	0.008
53.83	0.007
53.92	0.007
54.00	0.007
54.08	0.006
54.17	0.006
54.25	0.006
54.33	0.006
54.42	0.006
54.50	0.005
54.58	0.005
54.67	0.005
54.75	0.005
54.83	0.005
54.92	0.006
55.00	0.006
55.08	0.006
55.17	0.006
55.25	0.007
55.33	0.007
55.42	0.008
55.50	0.008
55.58	0.009
55.67	0.010
55.75	0.011
55.83	0.012
55.92	0.014
56.00	0.015
56.08	0.017
56.17	0.019
56.25	0.021
56.33	0.024
56.42	0.026
56.50	0.029
56.58	0.032
56.67	0.035
56.75	0.039
56.83	0.042
56.92	0.046
57.00	0.050
57.08	0.054
57.17	0.058
57.25	0.063
57.33	0.068
57.42	0.073
57.50	0.078
57.58	0.083
57.67	0.089
57.75	0.094
57.83	0.100
57.92	0.106
58.00	0.112
58.08	0.118
58.17	0.125
58.25	0.131
58.33	0.138
58.42	0.144
58.50	0.151
58.58	0.158
58.67	0.165
58.75	0.172
58.83	0.180
58.92	0.187
59.00	0.194
59.08	0.202
59.17	0.209
59.25	0.217
59.33	0.224
59.42	0.232
59.50	0.240
59.58	0.245
59.67	0.246
59.75	0.247
59.83	0.249
59.92	0.251
60.00	0.255
60.08	0.259
60.17	0.263
60.25	0.268
60.33	0.272
60.42	0.275
60.50	0.278
60.58	0.281
60.67	0.285
60.75	0.289
60.83	0.293
60.92	0.297
61.00	0.301
61.08	0.305
61.17	0.309
61.25	0.314
61.33	0.318
61.42	0.323
61.50	0.327
61.58	0.332
61.67	0.336
61.75	0.341
61.83	0.345
61.92	0.350
62.00	0.355
62.08	0.359
62.17	0.364
62.25	0.368
62.33	0.373
62.42	0.378
62.50	0.382
62.58	0.387
62.67	0.391
62.75	0.396
62.83	0.400
62.92	0.404
63.00	0.409
63.08	0.413
63.17	0.417
63.25	0.422
63.33	0.427
63.42	0.430
63.50	0.434
63.58	0.438
63.67	0.443
63.75	0.446
63.83	0.450
63.92	0.454
64.00	0.458
64.08	0.461
64.17	0.465
64.25	0.468
64.33	0.472
64.42	0.475
64.50	0.479
64.58	0.482
64.67	0.485
64.75	0.488
64.83	0.491
64.92	0.494
65.00	0.497
65.08	0.500
65.17	0.502
65.25	0.505
65.33	0.507
65.42	0.511
65.50	0.512
65.58	0.513
65.67	0.517
65.75	0.520
65.83	0.520
65.92	0.520
66.00	0.523
66.08	0.526
66.17	0.528
66.25	0.527
66.33	0.527
66.42	0.528
66.50	0.530
66.58	0.531
66.67	0.532
66.75	0.533
66.83	0.533
66.92	0.533
67.00	0.533
67.08	0.532
67.17	0.531
67.25	0.530
67.33	0.529
67.42	0.527
67.50	0.525
67.58	0.525
67.67	0.526
67.75	0.522
67.83	0.518
67.92	0.518
68.00	0.516
68.08	0.511
68.17	0.509
68.25	0.507
68.33	0.502
68.42	0.498
68.50	0.495
68.58	0.491
68.67	0.486
68.75	0.480
68.83	0.473
68.92	0.468
69.00	0.463
69.08	0.457
69.17	0.451
69.25	0.444
69.33	0.437
69.42	0.425
69.50	0.415
69.58	0.404
69.67	0.393
69.75	0.383
69.83	0.372
69.92	0.362
70.00	0.351
70.08	0.340
70.17	0.330
70.25	0.320
70.33	0.309
70.42	0.299
70.50	0.289
70.58	0.279
70.67	0.267
70.75	0.253
70.83	0.235
70.92	0.220
71.00	0.206
71.08	0.195
71.17	0.184
71.25	0.175
71.33	0.167
71.42	0.160
71.50	0.153
71.58	0.147
71.67	0.141
71.75	0.136
71.83	0.131
71.92	0.126
72.00	0.122
72.08	0.117
72.17	0.113
72.25	0.109
72.33	0.106
72.42	0.102
72.50	0.099
72.58	0.096
72.67	0.092
72.75	0.089
72.83	0.086
72.92	0.084
73.00	0.081
73.08	0.078
73.17	0.075
73.25	0.073
73.33	0.070
73.42	0.068
73.50	0.066
73.58	0.064
73.67	0.062
73.75	0.059
73.83	0.057
73.92	0.055
74.00	0.054
74.08	0.052
74.17	0.050
74.25	0.048
74.33	0.047
74.42	0.045
74.50	0.043
74.58	0.042
74.67	0.040
74.75	0.039
74.83	0.038
74.92	0.036
75.00	0.035
75.08	0.034
75.17	0.033
75.25	0.031
75.33	0.030
75.42	0.029
75.50	0.028
75.58	0.027
75.67	0.026
75.75	0.025
75.83	0.024
75.92	0.023
76.00	0.022
76.08	0.022
76.17	0.021
76.25	0.020
76.33	0.019
76.42	0.019
76.50	0.018
76.58	0.017
76.67	0.017
76.75	0.016
76.83	0.015
76.92	0.015
77.00	0.014
77.08	0.014
77.17	0.013
77.25	0.012
77.33	0.012
77.42	0.012
77.50	0.011
77.58	0.011
77.67	0.010
77.75	0.010
77.83	0.009
77.92	0.009
78.00	0.009
78.08	0.008
78.17	0.008
78.25	0.008
78.33	0.007
78.42	0.007
78.50	0.007
78.58	0.007
78.67	0.007
78.75	0.007
78.83	0.007
78.92	0.007
79.00	0.008
79.08	0.008
79.17	0.009
79.25	0.009
79.33	0.010
79.42	0.011
79.50	0.012
79.58	0.014
79.67	0.015
79.75	0.017
79.83	0.019
79.92	0.021
80.00	0.024
80.08	0.027
80.17	0.030
80.25	0.033
80.33	0.037
80.42	0.041
80.50	0.045
80.58	0.050
80.67	0.055
80.75	0.060
80.83	0.066
80.92	0.072
81.00	0.078
81.08	0.085
81.17	0.091
81.25	0.098
81.33	0.106
81.42	0.113
81.50	0.121
81.58	0.129
81.67	0.137
81.75	0.146
81.83	0.155
81.92	0.164
82.00	0.173
82.08	0.182
82.17	0.192
82.25	0.202
82.33	0.212
82.42	0.222
82.50	0.232
82.58	0.237
82.67	0.237
82.75	0.239
82.83	0.242
82.92	0.246
83.00	0.251
83.08	0.256
83.17	0.262
83.25	0.269
83.33	0.273
83.42	0.277
83.50	0.282
83.58	0.286
83.67	0.291
83.75	0.296
83.83	0.301
83.92	0.307
84.00	0.312
84.08	0.318
84.17	0.324
84.25	0.330
84.33	0.336
84.42	0.342
84.50	0.348
84.58	0.354
84.67	0.361
84.75	0.367
84.83	0.374
84.92	0.383
85.00	0.392
85.08	0.402
85.17	0.411
85.25	0.421
85.33	0.430
85.42	0.439
85.50	0.447
85.58	0.456
85.67	0.465
85.75	0.473
85.83	0.482
85.92	0.490
86.00	0.498
86.08	0.506
86.17	0.514
86.25	0.522
86.33	0.530
86.42	0.537
86.50	0.545
86.58	0.552
86.67	0.559
86.75	0.566
86.83	0.573
86.92	0.583
87.00	0.594
87.08	0.605
87.17	0.615
87.25	0.625
87.33	0.635
87.42	0.645
87.50	0.654
87.58	0.663
87.67	0.671
87.75	0.679
87.83	0.687
87.92	0.695
88.00	0.702
88.08	0.709
88.17	0.716
88.25	0.722
88.33	0.728
88.42	0.734
88.50	0.739
88.58	0.744
88.67	0.749
88.75	0.754
88.83	0.758
88.92	0.762
89.00	0.765
89.08	0.768
89.17	0.771
89.25	0.774
89.33	0.776
89.42	0.778
89.50	0.780
89.58	0.782
89.67	0.783
89.75	0.784
89.83	0.784
89.92	0.784
90.00	0.784
90.08	0.784
90.17	0.783
90.25	0.782
90.33	0.780
90.42	0.779
90.50	0.776
90.58	0.774
90.67	0.771
90.75	0.769
90.83	0.765
90.92	0.762
91.00	0.758
91.08	0.754
91.17	0.749
91.25	0.745
91.33	0.740
91.42	0.734
91.50	0.729
91.58	0.723
91.67	0.717
91.75	0.711
91.83	0.704
91.92	0.699
92.00	0.697
92.08	0.698
92.17	0.697
92.25	0.696
92.33	0.695
92.42	0.693
92.50	0.690
92.58	0.687
92.67	0.683
92.75	0.679
92.83	0.674
92.92	0.668
93.00	0.662
93.08	0.655
93.17	0.648
93.25	0.640
93.33	0.632
93.42	0.624
93.50	0.615
93.58	0.605
93.67	0.595
93.75	0.585
93.83	0.575
93.92	0.569
94.00	0.562
94.08	0.553
94.17	0.547
94.25	0.540
94.33	0.532
94.42	0.524
94.50	0.516
94.58	0.502
94.67	0.490
94.75	0.477
94.83	0.463
94.92	0.450
95.00	0.437
95.08	0.424
95.17	0.411
95.25	0.398
95.33	0.385
95.42	0.372
95.50	0.359
95.58	0.346
95.67	0.334
95.75	0.321
95.83	0.309
95.92	0.298
96.00	0.284
96.08	0.272
96.17	0.254
96.25	0.233
96.33	0.215
96.42	0.198
96.50	0.184
96.58	0.172
96.67	0.162
96.75	0.153
96.83	0.144
96.92	0.137
97.00	0.130
97.08	0.124
97.17	0.118
97.25	0.113
97.33	0.108
97.42	0.104
97.50	0.100
97.58	0.096
97.67	0.092
97.75	0.089
97.83	0.085
97.92	0.082
98.00	0.079
98.08	0.076
98.17	0.073
98.25	0.071
98.33	0.068
98.42	0.066
98.50	0.063
98.58	0.061
98.67	0.059
98.75	0.057
98.83	0.055
98.92	0.053
99.00	0.051
99.08	0.049
99.17	0.047
99.25	0.045
99.33	0.044
99.42	0.042
99.50	0.040
99.58	0.039
99.67	0.038
99.75	0.036
99.83	0.035
99.92	0.034
100.00	0.032
100.08	0.031
100.17	0.030
100.25	0.029
100.33	0.028
100.42	0.027
100.50	0.026
100.58	0.025
100.67	0.024
100.75	0.023
100.83	0.022
100.92	0.021
101.00	0.020
101.08	0.019
101.17	0.019
101.25	0.018
101.33	0.017
101.42	0.016
101.50	0.016
101.58	0.015
101.67	0.015
101.75	0.014
101.83	0.013
101.92	0.013
102.00	0.012
102.08	0.012
102.17	0.011
102.25	0.011
102.33	0.011
102.42	0.010
102.50	0.010
102.58	0.010
102.67	0.010
102.75	0.011
102.83	0.011
102.92	0.011
103.00	0.012
103.08	0.013
103.17	0.014
103.25	0.016
103.33	0.018
103.42	0.020
103.50	0.022
103.58	0.025
103.67	0.029
103.75	0.033
103.83	0.037
103.92	0.042
104.00	0.047
104.08	0.054
104.17	0.060
104.25	0.067
104.33	0.075
104.42	0.083
104.50	0.092
104.58	0.102
104.67	0.112
104.75	0.122
104.83	0.133
104.92	0.145
105.00	0.158
105.08	0.170
105.17	0.184
105.25	0.198
105.33	0.212
105.42	0.221
105.50	0.223
105.58	0.225
105.67	0.229
105.75	0.234
105.83	0.241
105.92	0.248
106.00	0.255
106.08	0.264
106.17	0.272
106.25	0.277
106.33	0.283
106.42	0.289
106.50	0.296
106.58	0.303
106.67	0.310
106.75	0.319
106.83	0.332
106.92	0.347
107.00	0.361
107.08	0.375
107.17	0.389
107.25	0.403
107.33	0.417
107.42	0.431
107.50	0.445
107.58	0.459
107.67	0.473
107.75	0.487
107.83	0.500
107.92	0.514
108.00	0.528
108.08	0.542
108.17	0.555
108.25	0.569
108.33	0.584
108.42	0.604
108.50	0.626
108.58	0.649
108.67	0.671
108.75	0.693
108.83	0.715
108.92	0.737
109.00	0.758
109.08	0.780
109.17	0.801
109.25	0.822
109.33	0.843
109.42	0.864
109.50	0.884
109.58	0.904
109.67	0.925
109.75	0.944
109.83	0.964
109.92	0.984
110.00	1.003
110.08	1.022
110.17	1.040
110.25	1.059
110.33	1.077
110.42	1.095
110.50	1.113
110.58	1.130
110.67	1.147
110.75	1.164
110.83	1.180
110.92	1.196
111.00	1.212
111.08	1.228
111.17	1.243
111.25	1.257
111.33	1.272
111.42	1.286
111.50	1.300
111.58	1.313
111.67	1.326
111.75	1.339
111.83	1.351
111.92	1.362
112.00	1.374
112.08	1.384
112.17	1.395
112.25	1.405
112.33	1.414
112.42	1.423
112.50	1.432
112.58	1.440
112.67	1.448
112.75	1.455
112.83	1.462
112.92	1.469
113.00	1.474
113.08	1.479
113.17	1.484
113.25	1.489
113.33	1.492
113.42	1.495
113.50	1.498
113.58	1.501
113.67	1.502
113.75	1.504
113.83	1.504
113.92	1.504
114.00	1.504
114.08	1.503
114.17	1.501
114.25	1.499
114.33	1.496
114.42	1.493
114.50	1.489
114.58	1.485
114.67	1.480
114.75	1.475
114.83	1.469
114.92	1.462
115.00	1.455
115.08	1.448
115.17	1.440
115.25	1.431
115.33	1.422
115.42	1.412
115.50	1.402
115.58	1.391
115.67	1.380
115.75	1.368
115.83	1.356
115.92	1.343
116.00	1.330
116.08	1.317
116.17	1.303
116.25	1.289
116.33	1.274
116.42	1.259
116.50	1.244
116.58	1.228
116.67	1.212
116.75	1.196
116.83	1.179
116.92	1.162
117.00	1.145
117.08	1.128
117.17	1.111
117.25	1.093
117.33	1.076
117.42	1.058
117.50	1.040
117.58	1.022
117.67	1.004
117.75	0.986
117.83	0.968
117.92	0.950
118.00	0.932
118.08	0.914
118.17	0.900
118.25	0.893
118.33	0.889
118.42	0.883
118.50	0.877
118.58	0.870
118.67	0.862
118.75	0.852
118.83	0.842
118.92	0.831
119.00	0.819
119.08	0.806
119.17	0.793
119.25	0.779
119.33	0.764
119.42	0.748
119.50	0.732
119.58	0.716
119.67	0.699
119.75	0.681
119.83	0.664
119.92	0.646
120.00	0.627
120.08	0.609
120.17	0.589
120.25	0.567
120.33	0.552
120.42	0.537
120.50	0.523
120.58	0.508
120.67	0.493
120.75	0.478
120.83	0.464
120.92	0.449
121.00	0.434
121.08	0.419
121.17	0.405
121.25	0.390
121.33	0.376
121.42	0.361
121.50	0.347
121.58	0.334
121.67	0.319
121.75	0.305
121.83	0.291
121.92	0.277
122.00	0.259
122.08	0.236
122.17	0.214
122.25	0.195
122.33	0.179
122.42	0.165
122.50	0.153
122.58	0.143
122.67	0.134
122.75	0.125
122.83	0.118
122.92	0.111
123.00	0.105
123.08	0.100
123.17	0.095
123.25	0.091
123.33	0.086
123.42	0.082
123.50	0.079
123.58	0.075
123.67	0.072
123.75	0.069
123.83	0.066
123.92	0.063
124.00	0.061
124.08	0.058
124.17	0.056
124.25	0.053
124.33	0.051
124.42	0.049
124.50	0.047
124.58	0.045
124.67	0.044
124.75	0.042
124.83	0.040
124.92	0.038
125.00	0.037
125.08	0.035
125.17	0.034
125.25	0.033
125.33	0.031
125.42	0.030
125.50	0.029
125.58	0.027
125.67	0.026
125.75	0.025
125.83	0.024
125.92	0.023
126.00	0.022
126.08	0.021
126.17	0.020
126.25	0.019
126.33	0.019
126.42	0.018
126.50	0.017
126.58	0.017
126.67	0.017
126.75	0.016
126.83	0.016
126.92	0.016
127.00	0.016
127.08	0.017
127.17	0.017
127.25	0.018
127.33	0.018
127.42	0.019
127.50	0.021
127.58	0.022
127.67	0.024
127.75	0.026
127.83	0.028
127.92	0.031
128.00	0.034
128.08	0.038
128.17	0.041
128.25	0.045
128.33	0.050
128.42	0.055
128.50	0.060
128.58	0.065
128.67	0.071
128.75	0.078
128.83	0.085
128.92	0.092
129.00	0.099
129.08	0.107
129.17	0.115
129.25	0.124
129.33	0.133
129.42	0.142
129.50	0.152
129.58	0.161
129.67	0.172
129.75	0.182
129.83	0.193
129.92	0.204
130.00	0.215
130.08	0.227
130.17	0.233
130.25	0.233
130.33	0.235
130.42	0.238
130.50	0.243
130.58	0.248
130.67	0.254
130.75	0.260
130.83	0.267
130.92	0.273
131.00	0.277
131.08	0.282
131.17	0.287
131.25	0.293
131.33	0.298
131.42	0.304
131.50	0.310
131.58	0.317
131.67	0.323
131.75	0.330
131.83	0.336
131.92	0.343
132.00	0.350
132.08	0.359
132.17	0.371
132.25	0.382
132.33	0.393
132.42	0.404
132.50	0.414
132.58	0.425
132.67	0.436
132.75	0.446
132.83	0.457
132.92	0.467
133.00	0.477
133.08	0.487
133.17	0.497
133.25	0.507
133.33	0.517
133.42	0.527
133.50	0.536
133.58	0.546
133.67	0.555
133.75	0.565
133.83	0.574
133.92	0.587
134.00	0.602
134.08	0.616
134.17	0.631
134.25	0.645
134.33	0.659
134.42	0.672
134.50	0.685
134.58	0.698
134.67	0.711
134.75	0.723
134.83	0.735
134.92	0.746
135.00	0.758
135.08	0.769
135.17	0.780
135.25	0.790
135.33	0.800
135.42	0.810
135.50	0.820
135.58	0.829
135.67	0.838
135.75	0.846
135.83	0.855
135.92	0.863
136.00	0.871
136.08	0.878
136.17	0.885
136.25	0.892
136.33	0.898
136.42	0.904
136.50	0.910
136.58	0.916
136.67	0.921
136.75	0.926
136.83	0.930
136.92	0.934
137.00	0.938
137.08	0.941
137.17	0.945
137.25	0.947
137.33	0.950
137.42	0.952
137.50	0.953
137.58	0.955
137.67	0.956
137.75	0.956
137.83	0.957
137.92	0.957
138.00	0.956
138.08	0.955
138.17	0.954
138.25	0.953
138.33	0.951
138.42	0.948
138.50	0.946
138.58	0.943
138.67	0.940
138.75	0.936
138.83	0.932
138.92	0.928
139.00	0.923
139.08	0.918
139.17	0.912
139.25	0.906
139.33	0.900
139.42	0.894
139.50	0.887
139.58	0.880
139.67	0.872
139.75	0.865
139.83	0.857
139.92	0.848
140.00	0.840
140.08	0.831
140.17	0.822
140.25	0.813
140.33	0.803
140.42	0.793
140.50	0.783
140.58	0.773
140.67	0.764
140.75	0.759
140.83	0.759
140.92	0.757
141.00	0.755
141.08	0.752
141.17	0.748
141.25	0.743
141.33	0.738
141.42	0.732
141.50	0.725
141.58	0.717
141.67	0.709
141.75	0.701
141.83	0.692
141.92	0.682
142.00	0.671
142.08	0.660
142.17	0.649
142.25	0.637
142.33	0.625
142.42	0.612
142.50	0.600
142.58	0.586
142.67	0.574
142.75	0.567
142.83	0.557
142.92	0.547
143.00	0.538
143.08	0.528
143.17	0.513
143.25	0.500
143.33	0.487
143.42	0.473
143.50	0.459
143.58	0.445
143.67	0.432
143.75	0.418
143.83	0.405
143.92	0.391
144.00	0.377
144.08	0.364
144.17	0.350
144.25	0.337
144.33	0.326
144.42	0.311
144.50	0.299
144.58	0.286
144.67	0.272
144.75	0.254
144.83	0.232
144.92	0.213
145.00	0.196
145.08	0.181
145.17	0.169
145.25	0.158
145.33	0.148
145.42	0.140
145.50	0.132
145.58	0.125
145.67	0.119
145.75	0.113
145.83	0.108
145.92	0.103
146.00	0.099
146.08	0.095
146.17	0.091
146.25	0.087
146.33	0.084
146.42	0.080
146.50	0.077
146.58	0.074
146.67	0.071
146.75	0.069
146.83	0.066
146.92	0.064
147.00	0.061
147.08	0.059
147.17	0.057
147.25	0.055
147.33	0.052
147.42	0.051
147.50	0.049
147.58	0.047
147.67	0.045
147.75	0.043
147.83	0.042
147.92	0.040
148.00	0.039
148.08	0.037
148.17	0.036
148.25	0.034
148.33	0.033
148.42	0.032
148.50	0.031
148.58	0.029
148.67	0.028
148.75	0.027
148.83	0.026
148.92	0.025
149.00	0.024
149.08	0.023
149.17	0.022
149.25	0.021
149.33	0.020
149.42	0.020
149.50	0.019
149.58	0.018
149.67	0.017
149.75	0.017
149.83	0.016
149.92	0.015
150.00	0.015
150.08	0.014
150.17	0.013
150.25	0.013
150.33	0.012
150.42	0.012
150.50	0.011
150.58	0.011
150.67	0.011
150.75	0.011
150.83	0.011
150.92	0.011
151.00	0.011
151.08	0.011
151.17	0.011
151.25	0.012
151.33	0.012
151.42	0.013
151.50	0.014
151.58	0.015
151.67	0.016
151.75	0.017
151.83	0.019
151.92	0.021
152.00	0.023
152.08	0.025
152.17	0.027
152.25	0.030
152.33	0.033
152.42	0.036
152.50	0.040
152.58	0.043
152.67	0.047
152.75	0.052
152.83	0.056
152.92	0.061
153.00	0.066
153.08	0.071
153.17	0.077
153.25	0.083
153.33	0.089
153.42	0.095
153.50	0.101
153.58	0.108
153.67	0.115
153.75	0.122
153.83	0.130
153.92	0.137
154.00	0.145
154.08	0.153
154.17	0.161
154.25	0.169
154.33	0.177
154.42	0.186
154.50	0.194
154.58	0.203
154.67	0.212
154.75	0.221
154.83	0.230
154.92	0.238
155.00	0.241
155.08	0.241
155.17	0.243
155.25	0.246
155.33	0.250
155.42	0.255
155.50	0.260
155.58	0.265
155.67	0.271
155.75	0.274
155.83	0.278
155.92	0.283
156.00	0.286
156.08	0.290
156.17	0.295
156.25	0.299
156.33	0.304
156.42	0.309
156.50	0.314
156.58	0.319
156.67	0.325
156.75	0.330
156.83	0.336
156.92	0.341
157.00	0.346
157.08	0.352
157.17	0.358
157.25	0.363
157.33	0.369
157.42	0.374
157.50	0.380
157.58	0.386
157.67	0.391
157.75	0.397
157.83	0.403
157.92	0.411
158.00	0.418
158.08	0.426
158.17	0.434
158.25	0.441
158.33	0.448
158.42	0.455
158.50	0.462
158.58	0.469
158.67	0.475
158.75	0.482
158.83	0.488
158.92	0.495
159.00	0.501
159.08	0.507
159.17	0.512
159.25	0.518
159.33	0.524
159.42	0.529
159.50	0.536
159.58	0.540
159.67	0.544
159.75	0.550
159.83	0.555
159.92	0.559
160.00	0.563
160.08	0.568
160.17	0.572
160.25	0.577
160.33	0.582
160.42	0.588
160.50	0.594
160.58	0.600
160.67	0.605
160.75	0.610
160.83	0.614
160.92	0.618
161.00	0.622
161.08	0.626
161.17	0.629
161.25	0.632
161.33	0.635
161.42	0.637
161.50	0.639
161.58	0.641
161.67	0.642
161.75	0.643
161.83	0.644
161.92	0.645
162.00	0.645
162.08	0.645
162.17	0.645
162.25	0.644
162.33	0.643
162.42	0.642
162.50	0.641
162.58	0.639
162.67	0.637
162.75	0.635
162.83	0.632
162.92	0.629
163.00	0.629
163.08	0.630
163.17	0.632
163.25	0.633
163.33	0.633
163.42	0.633
163.50	0.633
163.58	0.632
163.67	0.631
163.75	0.630
163.83	0.628
163.92	0.626
164.00	0.623
164.08	0.620
164.17	0.616
164.25	0.612
164.33	0.607
164.42	0.602
164.50	0.597
164.58	0.591
164.67	0.585
164.75	0.579
164.83	0.574
164.92	0.568
165.00	0.565
165.08	0.562
165.17	0.556
165.25	0.549
165.33	0.542
165.42	0.539
165.50	0.532
165.58	0.523
165.67	0.517
165.75	0.510
165.83	0.502
165.92	0.494
166.00	0.485
166.08	0.471
166.17	0.459
166.25	0.447
166.33	0.435
166.42	0.422
166.50	0.410
166.58	0.398
166.67	0.385
166.75	0.373
166.83	0.361
166.92	0.349
167.00	0.337
167.08	0.325
167.17	0.313
167.25	0.301
167.33	0.290
167.42	0.280
167.50	0.265
167.58	0.247
167.67	0.228
167.75	0.211
167.83	0.197
167.92	0.184
168.00	0.173
168.08	0.163
168.17	0.155
168.25	0.147
168.33	0.140
168.42	0.134
168.50	0.128
168.58	0.122
168.67	0.117
168.75	0.113
168.83	0.109
168.92	0.105
169.00	0.101
169.08	0.097
169.17	0.093
169.25	0.090
169.33	0.087
169.42	0.084
169.50	0.081
169.58	0.078
169.67	0.075
169.75	0.073
169.83	0.070
169.92	0.068
170.00	0.065
170.08	0.063
170.17	0.061
170.25	0.059
170.33	0.057
170.42	0.055
170.50	0.053
170.58	0.051
170.67	0.049
170.75	0.047
170.83	0.046
170.92	0.044
171.00	0.042
171.08	0.041
171.17	0.039
171.25	0.038
171.33	0.037
171.42	0.035
171.50	0.034
171.58	0.033
171.67	0.032
171.75	0.030
171.83	0.029
171.92	0.028
172.00	0.027
172.08	0.026
172.17	0.025
172.25	0.024
172.33	0.023
172.42	0.022
172.50	0.021
172.58	0.021
172.67	0.020
172.75	0.019
172.83	0.018
172.92	0.018
173.00	0.017
173.08	0.016
173.17	0.016
173.25	0.015
173.33	0.014
173.42	0.014
173.50	0.013
173.58	0.013
173.67	0.012
173.75	0.012
173.83	0.011
173.92	0.011
174.00	0.010
174.08	0.010
174.17	0.010
174.25	0.009
174.33	0.009
174.42	0.009
174.50	0.008
174.58	0.008
174.67	0.008
174.75	0.008
174.83	0.008
174.92	0.008
175.00	0.008
175.08	0.008
175.17	0.008
175.25	0.008
175.33	0.009
175.42	0.009
175.50	0.010
175.58	0.010
175.67	0.011
175.75	0.012
175.83	0.013
175.92	0.014
176.00	0.016
176.08	0.017
176.17	0.019
176.25	0.021
176.33	0.023
176.42	0.025
176.50	0.027
176.58	0.030
176.67	0.033
176.75	0.036
176.83	0.039
176.92	0.042
177.00	0.046
177.08	0.049
177.17	0.053
177.25	0.057
177.33	0.061
177.42	0.066
177.50	0.070
177.58	0.075
177.67	0.080
177.75	0.085
177.83	0.090
177.92	0.095
178.00	0.101
178.08	0.106
178.17	0.112
178.25	0.118
178.33	0.124
178.42	0.130
178.50	0.136
178.58	0.142
178.67	0.148
178.75	0.155
178.83	0.161
178.92	0.168
179.00	0.174
179.08	0.181
179.17	0.188
179.25	0.194
179.33	0.201
179.42	0.208
179.50	0.215
179.58	0.221
179.67	0.228
179.75	0.235
179.83	0.242
179.92	0.247
180.00	0.248
180.08	0.249
180.17	0.251
180.25	0.253
180.33	0.256
180.42	0.260
180.50	0.264
180.58	0.268
180.67	0.272
180.75	0.274
180.83	0.278
180.92	0.281
181.00	0.283
181.08	0.287
181.17	0.291
181.25	0.293
181.33	0.298
181.42	0.302
181.50	0.304
181.58	0.309
181.67	0.314
181.75	0.316
181.83	0.321
181.92	0.325
182.00	0.328
182.08	0.333
182.17	0.337
182.25	0.340
182.33	0.345
182.42	0.348
182.50	0.352
182.58	0.356
182.67	0.360
182.75	0.364
182.83	0.368
182.92	0.372
183.00	0.376
183.08	0.379
183.17	0.383
183.25	0.387
183.33	0.390
183.42	0.394
183.50	0.397
183.58	0.401
183.67	0.404
183.75	0.408
183.83	0.411
183.92	0.414
184.00	0.418
184.08	0.421
184.17	0.424
184.25	0.427
184.33	0.430
184.42	0.432
184.50	0.435
184.58	0.438
184.67	0.441
184.75	0.443
184.83	0.445
184.92	0.448
185.00	0.450
185.08	0.454
185.17	0.455
185.25	0.455
185.33	0.458
185.42	0.462
185.50	0.462
185.58	0.462
185.67	0.465
185.75	0.467
185.83	0.467
185.92	0.468
186.00	0.469
186.08	0.471
186.17	0.472
186.25	0.473
186.33	0.472
186.42	0.471
186.50	0.472
186.58	0.472
186.67	0.472
186.75	0.472
186.83	0.471
186.92	0.470
187.00	0.471
187.08	0.472
187.17	0.470
187.25	0.468
187.33	0.465
187.42	0.465
187.50	0.465
187.58	0.461
187.67	0.459
187.75	0.457
187.83	0.454
187.92	0.451
188.00	0.449
188.08	0.445
188.17	0.442
188.25	0.438
188.33	0.434
188.42	0.430
188.50	0.423
188.58	0.419
188.67	0.414
188.75	0.408
188.83	0.401
188.92	0.394
189.00	0.384
189.08	0.375
189.17	0.366
189.25	0.357
189.33	0.348
189.42	0.338
189.50	0.329
189.58	0.320
189.67	0.311
189.75	0.302
189.83	0.293
189.92	0.284
190.00	0.275
190.08	0.263
190.17	0.250
190.25	0.235
190.33	0.221
190.42	0.210
190.50	0.199
190.58	0.190
190.67	0.182
190.75	0.174
190.83	0.167
190.92	0.161
191.00	0.155
191.08	0.150
191.17	0.144
191.25	0.140
191.33	0.135
191.42	0.131
191.50	0.126
191.58	0.122
191.67	0.118
191.75	0.115
191.83	0.111
191.92	0.107
192.00	0.104
192.08	0.101
192.17	0.098
192.25	0.094
192.33	0.091
192.42	0.089
192.50	0.086
192.58	0.083
192.67	0.080
192.75	0.078
192.83	0.075
192.92	0.073
193.00	0.070
193.08	0.068
193.17	0.066
193.25	0.064
193.33	0.062
193.42	0.060
193.50	0.058
193.58	0.056
193.67	0.054
193.75	0.052
193.83	0.050
193.92	0.049
194.00	0.047
194.08	0.045
194.17	0.044
194.25	0.042
194.33	0.041
194.42	0.039
194.50	0.038
194.58	0.037
194.67	0.035
194.75	0.034
194.83	0.033
194.92	0.032
195.00	0.031
195.08	0.030
195.17	0.028
195.25	0.027
195.33	0.027
195.42	0.026
195.50	0.025
195.58	0.024
195.67	0.023
195.75	0.022
195.83	0.021
195.92	0.020
196.00	0.020
196.08	0.019
196.17	0.018
196.25	0.018
196.33	0.017
196.42	0.016
196.50	0.016
196.58	0.015
196.67	0.015
196.75	0.014
196.83	0.013
196.92	0.013
197.00	0.012
197.08	0.012
197.17	0.011
197.25	0.011
197.33	0.011
197.42	0.010
197.50	0.010
197.58	0.009
197.67	0.009
197.75	0.009
197.83	0.008
197.92	0.008
198.00	0.008
198.08	0.007
198.17	0.007
198.25	0.007
198.33	0.006
198.42	0.006
198.50	0.006
198.58	0.006
198.67	0.006
198.75	0.006
198.83	0.006
198.92	0.006
199.00	0.006
199.08	0.006
199.17	0.006
199.25	0.006
199.33	0.006
199.42	0.007
199.50	0.007
199.58	0.008
199.67	0.008
199.75	0.009
199.83	0.010
199.92	0.010
200.00	0.011
200.08	0.013
200.17	0.014
200.25	0.015
200.33	0.017
200.42	0.018
200.50	0.020
200.58	0.022
200.67	0.024
200.75	0.026
200.83	0.028
200.92	0.031
201.00	0.033
201.08	0.036
201.17	0.039
201.25	0.042
201.33	0.045
201.42	0.049
201.50	0.052
201.58	0.055
201.67	0.059
201.75	0.063
201.83	0.067
201.92	0.071
202.00	0.075
202.08	0.079
202.17	0.083
202.25	0.088
202.33	0.092
202.42	0.097
202.50	0.101
202.58	0.106
202.67	0.111
202.75	0.115
202.83	0.120
202.92	0.125
203.00	0.130
203.08	0.135
203.17	0.140
203.25	0.145
203.33	0.150
203.42	0.155
203.50	0.161
203.58	0.166
203.67	0.171
203.75	0.176
203.83	0.181
203.92	0.186
204.00	0.192
204.08	0.197
204.17	0.202
204.25	0.207
204.33	0.212
204.42	0.217
204.50	0.222
204.58	0.227
204.67	0.232
204.75	0.237
204.83	0.242
204.92	0.247
205.00	0.252
205.08	0.255
205.17	0.255
205.25	0.256
205.33	0.257
205.42	0.259
205.50	0.261
205.58	0.264
205.67	0.267
205.75	0.270
205.83	0.272
205.92	0.274
206.00	0.276
206.08	0.278
206.17	0.280
206.25	0.282
206.33	0.285
206.42	0.287
206.50	0.290
206.58	0.292
206.67	0.295
206.75	0.297
206.83	0.300
206.92	0.303
207.00	0.305
207.08	0.308
207.17	0.310
207.25	0.313
207.33	0.315
207.42	0.318
207.50	0.320
207.58	0.323
207.67	0.325
207.75	0.327
207.83	0.330
207.92	0.332
208.00	0.334
208.08	0.336
208.17	0.338
208.25	0.340
208.33	0.342
208.42	0.344
208.50	0.346
208.58	0.347
208.67	0.350
208.75	0.351
208.83	0.351
208.92	0.354
209.00	0.356
209.08	0.356
209.17	0.356
209.25	0.358
209.33	0.360
209.42	0.362
209.50	0.361
209.58	0.360
209.67	0.362
209.75	0.363
209.83	0.363
209.92	0.364
210.00	0.364
210.08	0.364
210.17	0.364
210.25	0.364
210.33	0.363
210.42	0.362
210.50	0.361
210.58	0.360
210.67	0.361
210.75	0.361
210.83	0.359
210.92	0.356
211.00	0.356
211.08	0.355
211.17	0.352
211.25	0.351
211.33	0.349
211.42	0.345
211.50	0.342
211.58	0.342
211.67	0.338
211.75	0.331
211.83	0.325
211.92	0.319
212.00	0.314
212.08	0.310
212.17	0.305
212.25	0.298
212.33	0.292
212.42	0.286
212.50	0.280
212.58	0.274
212.67	0.265
212.75	0.256
212.83	0.245
212.92	0.235
213.00	0.227
213.08	0.219
213.17	0.211
213.25	0.205
213.33	0.198
213.42	0.193
213.50	0.187
213.58	0.182
213.67	0.177
213.75	0.172
213.83	0.167
213.92	0.162
214.00	0.158
214.08	0.154
214.17	0.150
214.25	0.146
214.33	0.142
214.42	0.138
214.50	0.134
214.58	0.130
214.67	0.127
214.75	0.123
214.83	0.120
214.92	0.116
215.00	0.113
215.08	0.110
215.17	0.107
215.25	0.104
215.33	0.101
215.42	0.098
215.50	0.095
215.58	0.092
215.67	0.089
215.75	0.086
215.83	0.084
215.92	0.081
216.00	0.079
216.08	0.076
216.17	0.074
216.25	0.072
216.33	0.070
216.42	0.067
216.50	0.065
216.58	0.063
216.67	0.061
216.75	0.059
216.83	0.057
216.92	0.056
217.00	0.054
217.08	0.052
217.17	0.050
217.25	0.049
217.33	0.047
217.42	0.046
217.50	0.044
217.58	0.043
217.67	0.041
217.75	0.040
217.83	0.038
217.92	0.037
218.00	0.036
218.08	0.035
218.17	0.034
218.25	0.032
218.33	0.031
218.42	0.030
218.50	0.029
218.58	0.028
218.67	0.027
218.75	0.026
218.83	0.025
218.92	0.024
219.00	0.024
219.08	0.023
219.17	0.022
219.25	0.021
219.33	0.020
219.42	0.020
219.50	0.019
219.58	0.018
219.67	0.018
219.75	0.017
219.83	0.016
219.92	0.016
220.00	0.015
220.08	0.015
220.17	0.014
220.25	0.014
220.33	0.013
220.42	0.013
220.50	0.012
220.58	0.012
220.67	0.011
220.75	0.011
220.83	0.010
220.92	0.010
221.00	0.010
221.08	0.009
221.17	0.009
221.25	0.009
221.33	0.008
221.42	0.008
221.50	0.008
221.58	0.007
221.67	0.007
221.75	0.007
221.83	0.006
221.92	0.006
222.00	0.006
222.08	0.006
222.17	0.005
222.25	0.005
222.33	0.005
222.42	0.005
222.50	0.005
222.58	0.005
222.67	0.005
222.75	0.005
222.83	0.005
222.92	0.005
223.00	0.005
223.08	0.005
223.17	0.005
223.25	0.006
223.33	0.006
223.42	0.007
223.50	0.007
223.58	0.008
223.67	0.008
223.75	0.009
223.83	0.010
223.92	0.011
224.00	0.013
224.08	0.014
224.17	0.016
224.25	0.017
224.33	0.019
224.42	0.021
224.50	0.024
224.58	0.026
224.67	0.028
224.75	0.031
224.83	0.034
224.92	0.037
225.00	0.040
225.08	0.044
225.17	0.047
225.25	0.051
225.33	0.055
225.42	0.059
225.50	0.063
225.58	0.067
225.67	0.072
225.75	0.076
225.83	0.081
225.92	0.086
226.00	0.091
226.08	0.096
226.17	0.101
226.25	0.106
226.33	0.112
226.42	0.117
226.50	0.123
226.58	0.128
226.67	0.134
226.75	0.140
226.83	0.146
226.92	0.152
227.00	0.158
227.08	0.164
227.17	0.170
227.25	0.176
227.33	0.182
227.42	0.188
227.50	0.194
227.58	0.200
227.67	0.207
227.75	0.213
227.83	0.219
227.92	0.225
228.00	0.232
228.08	0.238
228.17	0.244
228.25	0.249
228.33	0.251
228.42	0.251
228.50	0.252
228.58	0.254
228.67	0.257
228.75	0.260
228.83	0.264
228.92	0.268
229.00	0.271
229.08	0.273
229.17	0.277
229.25	0.280
229.33	0.281
229.42	0.285
229.50	0.289
229.58	0.290
229.67	0.294
229.75	0.298
229.83	0.300
229.92	0.304
230.00	0.309
230.08	0.311
230.17	0.315
230.25	0.318
230.33	0.321
230.42	0.325
230.50	0.329
230.58	0.332
230.67	0.335
230.75	0.339
230.83	0.343
230.92	0.346
231.00	0.349
231.08	0.353
231.17	0.356
231.25	0.360
231.33	0.363
231.42	0.366
231.50	0.369
231.58	0.372
231.67	0.375
231.75	0.378
231.83	0.381
231.92	0.384
232.00	0.387
232.08	0.390
232.17	0.392
232.25	0.395
232.33	0.398
232.42	0.400
232.50	0.403
232.58	0.405
232.67	0.407
232.75	0.409
232.83	0.411
232.92	0.415
233.00	0.415
233.08	0.416
233.17	0.419
233.25	0.422
233.33	0.422
233.42	0.422
233.50	0.425
233.58	0.427
233.67	0.427
233.75	0.427
233.83	0.429
233.92	0.431
234.00	0.432
234.08	0.433
234.17	0.432
234.25	0.430
234.33	0.431
234.42	0.431
234.50	0.431
234.58	0.431
234.67	0.430
234.75	0.430
234.83	0.431
234.92	0.431
235.00	0.429
235.08	0.427
235.17	0.425
235.25	0.425
235.33	0.425
235.42	0.421
235.50	0.419
235.58	0.417
235.67	0.415
235.75	0.412
235.83	0.409
235.92	0.406
236.00	0.403
236.08	0.399
236.17	0.394
236.25	0.392
236.33	0.387
236.42	0.381
236.50	0.374
236.58	0.367
236.67	0.359
236.75	0.351
236.83	0.343
236.92	0.335
237.00	0.327
237.08	0.319
237.17	0.311
237.25	0.303
237.33	0.295
237.42	0.287
237.50	0.279
237.58	0.270
237.67	0.259
237.75	0.244
237.83	0.231
237.92	0.220
238.00	0.210
238.08	0.201
238.17	0.193
238.25	0.185
238.33	0.178
238.42	0.172
238.50	0.166
238.58	0.161
238.67	0.156
238.75	0.151
238.83	0.146
238.92	0.141
239.00	0.137
239.08	0.133
239.17	0.129
239.25	0.125
239.33	0.121
239.42	0.117
239.50	0.114
239.58	0.110
239.67	0.107
239.75	0.104
239.83	0.100
239.92	0.097
240.00	0.094
240.08	0.091
240.17	0.089
240.25	0.086
240.33	0.083
240.42	0.081
240.50	0.078
240.58	0.076
240.67	0.073
240.75	0.071
240.83	0.068
240.92	0.066
241.00	0.064
241.08	0.062
241.17	0.060
241.25	0.058
241.33	0.056
241.42	0.054
241.50	0.052
241.58	0.051
241.67	0.049
241.75	0.047
241.83	0.046
241.92	0.044
242.00	0.043
242.08	0.041
242.17	0.040
242.25	0.039
242.33	0.037
242.42	0.036
242.50	0.035
242.58	0.034
242.67	0.032
242.75	0.031
242.83	0.030
242.92	0.029
243.00	0.028
243.08	0.027
243.17	0.026
243.25	0.025
243.33	0.024
243.42	0.023
243.50	0.023
243.58	0.022
243.67	0.021
243.75	0.020
243.83	0.019
243.92	0.019
244.00	0.018
244.08	0.017
244.17	0.017
244.25	0.016
244.33	0.016
244.42	0.015
244.50	0.014
244.58	0.014
244.67	0.013
244.75	0.013
244.83	0.012
244.92	0.012
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245.08	0.011
245.17	0.010
245.25	0.010
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245.42	0.009
245.50	0.009
245.58	0.009
245.67	0.008
245.75	0.008
245.83	0.008
245.92	0.007
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246.50	0.005
246.58	0.005
246.67	0.005
246.75	0.005
246.83	0.005
246.92	0.004
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247.08	0.004
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247.50	0.003
247.58	0.003
247.67	0.003
247.75	0.003
247.83	0.003
247.92	0.003
248.00	0.002
248.08	0.002
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248.58	0.002
248.67	0.002
248.75	0.002
248.83	0.002
248.92	0.002
249.00	0.001
249.08	0.001
249.17	0.001
249.25	0.001
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250.92	0.001
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253.83	0.000
253.92	0.000
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267.75	0.000
267.83	0.000
267.92	0.000
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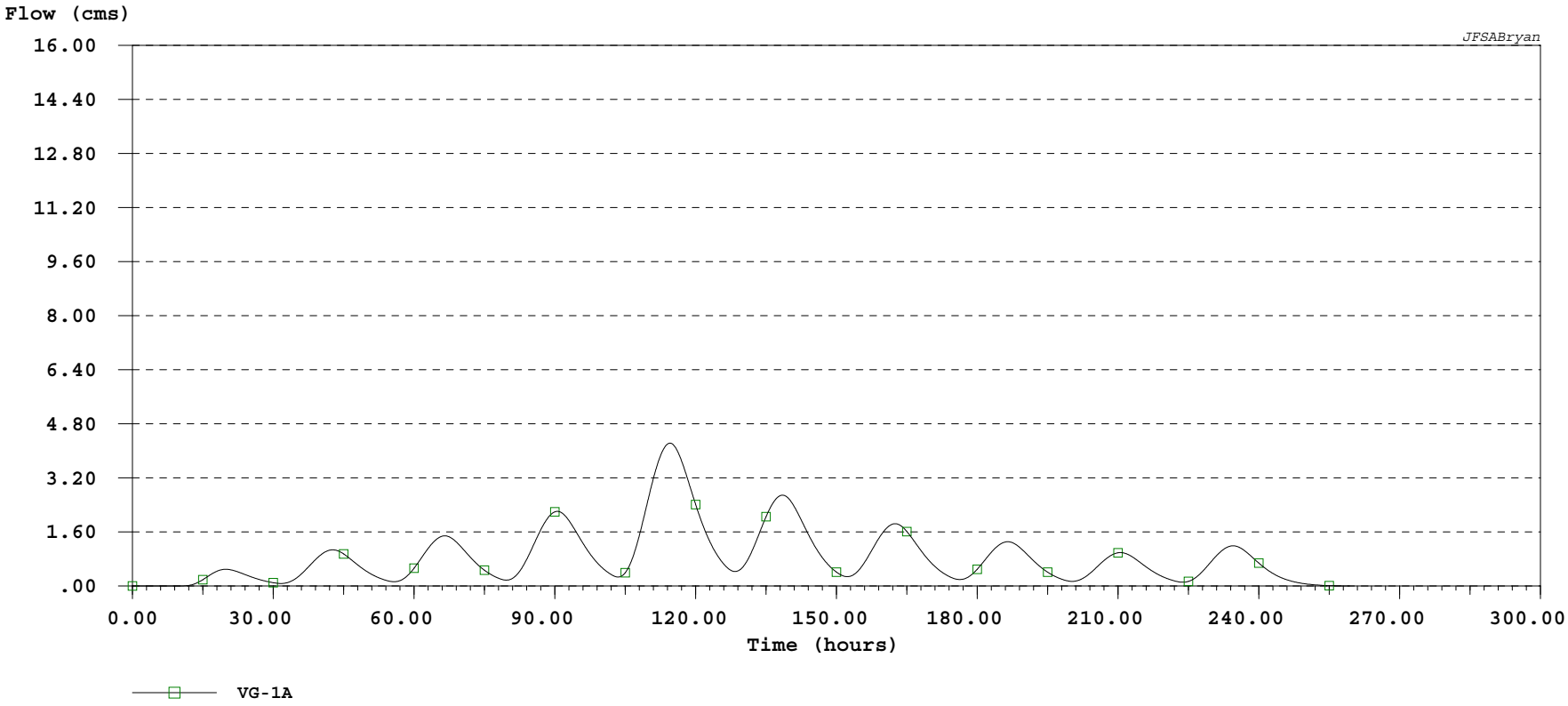
268.08	0.000
268.17	0.000
268.25	0.000

VG-1A (VG SPRING)



Hydrograph Statistics:

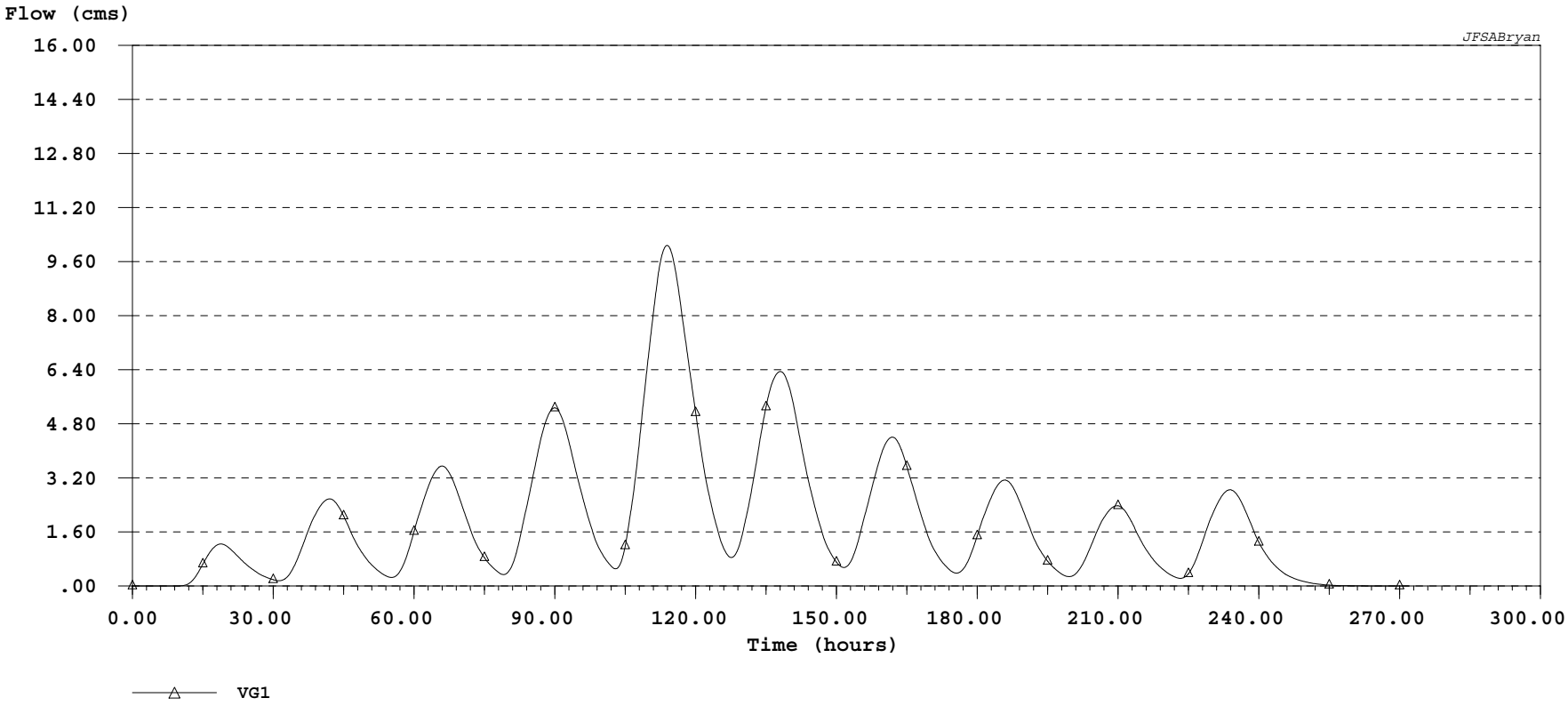
Legend	Filename & Comment	Time Step (min)	Drainage Area (ha)	Peak Flow (cms)	Time to Peak (hrs)	Runoff Volume (mm)	Runoff Volume (cu.m)	Duration of flow (hrs)	Average flow (cms)
	H-VG-1A.100 : VG-1A	5.00	311.90	4.228	114.500	250.81	7.823E+05	259.333	0.838

Hydrograph Table:

Hydrograph Filename : Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSPRI~1\H-VG-1A.100

Comment in file : VG-1A

VG1 (VG SPRING)



Hydrograph Statistics:

Legend	Filename & Comment	Time Step (min)	Drainage Area (ha)	Peak Flow (cms)	Time to Peak (hrs)	Runoff Volume (mm)	Runoff Volume (cu.m)	Duration of flow (hrs)	Average flow (cms)
——△——	H-VG1.100 : VG1	5.00	727.40	10.080	113.917	251.11	1.827E+06	272.000	1.865

Hydrograph Table:

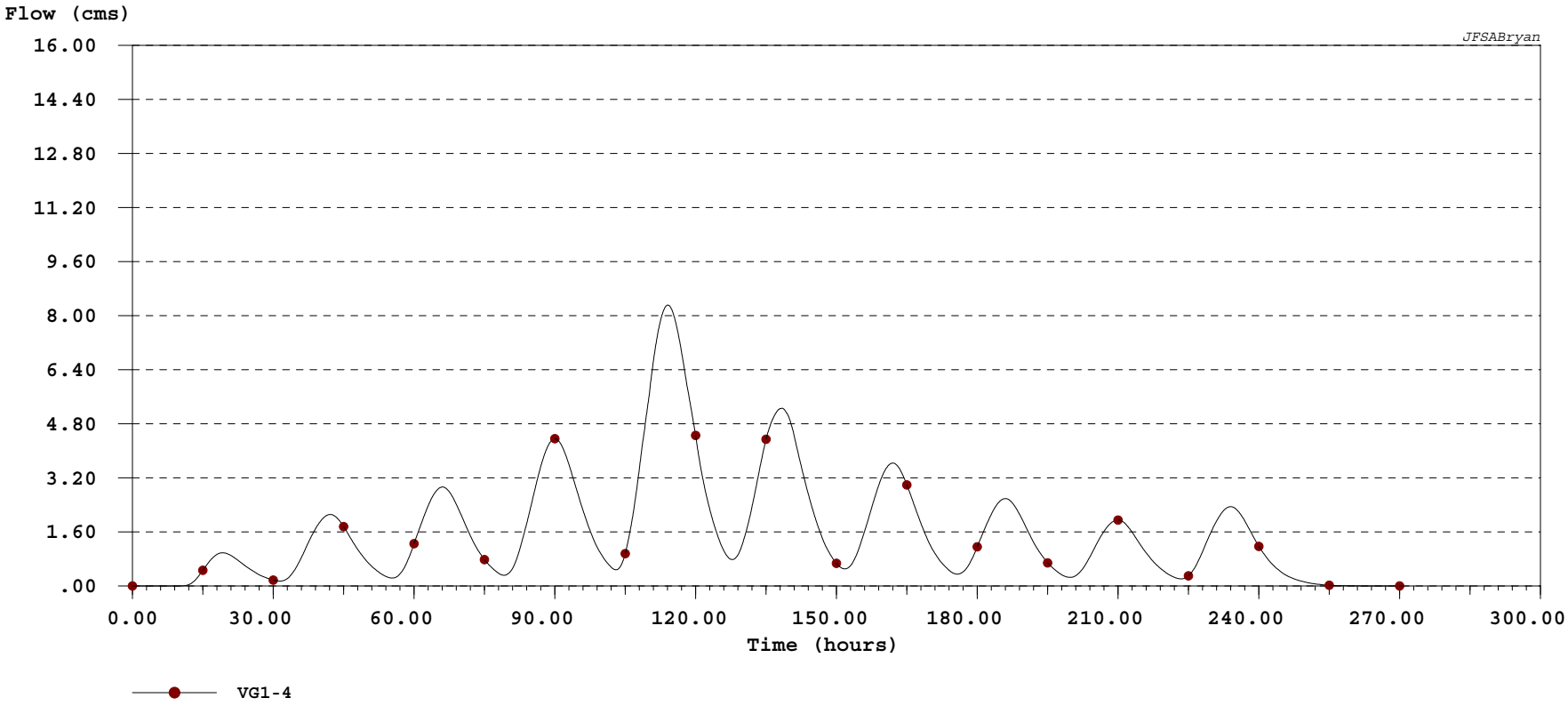
Hydrograph Filename : Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSPRI~1\H-VG1.100
Comment in file : VG1

TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
0.00	0.000	11.67	0.046	23.33	0.754	35.00	0.751	46.67	1.550	58.33	0.845	70.00	2.470	81.67	0.922
0.08	0.000	11.75	0.052	23.42	0.743	35.08	0.778	46.75	1.525	58.42	0.879	70.08	2.437	81.75	0.963
0.17	0.000	11.83	0.058	23.50	0.732	35.17	0.805	46.83	1.501	58.50	0.913	70.17	2.403	81.83	1.005
0.25	0.000	11.92	0.064	23.58	0.721	35.25	0.833	46.92	1.478	58.58	0.949	70.25	2.370	81.92	1.048
0.33	0.000	12.00	0.071	23.67	0.711	35.33	0.862	47.00	1.454	58.67	0.984	70.33	2.336	82.00	1.092
0.42	0.000	12.08	0.079	23.75	0.700	35.42	0.891	47.08	1.431	58.75	1.020	70.42	2.302	82.08	1.137
0.50	0.000	12.17	0.087	23.83	0.689	35.50	0.920	47.17	1.408	58.83	1.055	70.50	2.268	82.17	1.184
0.58	0.000	12.25	0.095	23.92	0.679	35.58	0.951	47.25	1.386	58.92	1.092	70.58	2.234	82.25	1.232
0.67	0.000	12.33	0.104	24.00	0.668	35.67	0.980	47.33	1.364	59.00	1.129	70.67	2.200	82.33	1.280
0.75	0.000	12.42	0.114	24.08	0.658	35.75	1.010	47.42	1.341	59.08	1.166	70.75	2.167	82.42	1.330
0.83	0.000	12.50	0.124	24.17	0.648	35.83	1.039	47.50	1.318	59.17	1.205	70.83	2.133	82.50	1.381
0.92	0.000	12.58	0.134	24.25	0.638	35.92	1.069	47.58	1.295	59.25	1.244	70.92	2.100	82.58	1.434
1.00	0.000	12.67	0.146	24.33	0.628	36.00	1.098	47.67	1.273	59.33	1.283	71.00	2.067	82.67	1.488
1.08	0.000	12.75	0.158	24.42	0.618	36.08	1.128	47.75	1.251	59.42	1.323	71.08	2.034	82.75	1.543
1.17	0.000	12.83	0.170	24.50	0.608	36.17	1.159	47.83	1.230	59.50	1.363	71.17	2.001	82.83	1.598
1.25	0.000	12.92	0.184	24.58	0.599	36.25	1.189	47.92	1.209	59.58	1.404	71.25	1.968	82.92	1.653
1.33	0.000	13.00	0.197	24.67	0.589	36.33	1.220	48.00	1.189	59.67	1.446	71.33	1.936	83.00	1.708
1.42	0.000	13.08	0.211	24.75	0.580	36.42	1.251	48.08	1.169	59.75	1.488	71.42	1.904	83.08	1.763
1.50	0.000	13.17	0.225	24.83	0.570	36.50	1.282	48.17	1.149	59.83	1.531	71.50	1.872	83.17	1.819
1.58	0.000	13.25	0.240	24.92	0.561	36.58	1.313	48.25	1.130	59.92	1.573	71.58	1.841	83.25	1.875
1.67	0.000	13.33	0.256	25.00	0.552	36.67	1.344	48.33	1.112	60.00	1.615	71.67	1.813	83.33	1.932
1.75	0.000	13.42	0.271	25.08	0.543	36.75	1.376	48.42	1.093	60.08	1.656	71.75	1.780	83.42	1.989
1.83	0.000	13.50	0.288	25.17	0.534	36.83	1.408	48.50	1.075	60.17	1.697	71.83	1.749	83.50	2.040
1.92	0.000	13.58	0.305	25.25	0.525	36.92	1.440	48.58	1.057	60.25	1.739	71.92	1.716	83.58	2.089
2.00	0.000	13.67	0.322	25.33	0.517	37.00	1.472	48.67	1.040	60.33	1.781	72.00	1.682	83.67	2.139
2.08	0.000	13.75	0.341	25.42	0.509	37.08	1.505	48.75	1.022	60.42	1.822	72.08	1.647	83.75	2.187
2.17	0.000	13.83	0.359	25.50	0.501	37.17	1.537	48.83	1.005	60.50	1.864	72.17	1.614	83.83	2.237
2.25	0.000	13.92	0.379	25.58	0.493	37.25	1.568	48.92	0.988	60.58	1.905	72.25	1.579	83.92	2.288
2.33	0.000	14.00	0.398	25.67	0.485	37.33	1.598	49.00	0.970	60.67	1.947	72.33	1.545	84.00	2.341
2.42	0.000	14.08	0.418	25.75	0.477	37.42	1.628	49.08	0.953	60.75	1.986	72.42	1.513	84.08	2.394
2.50	0.000	14.17	0.438	25.83	0.469	37.50	1.657	49.17	0.937	60.83	2.022	72.50	1.482	84.17	2.449
2.58	0.000	14.25	0.459	25.92	0.461	37.58	1.687	49.25	0.920	60.92	2.056	72.58	1.453	84.25	2.503
2.67	0.000	14.33	0.479	26.00	0.453	37.67	1.716	49.33	0.903	61.00	2.091	72.67	1.425	84.33	2.558
2.75	0.000	14.42	0.501	26.08	0.445	37.75	1.746	49.42	0.887	61.08	2.125	72.75	1.398	84.42	2.613
2.83	0.000	14.50	0.522	26.17	0.437	37.83	1.775	49.50	0.871	61.17	2.159	72.83	1.372	84.50	2.668
2.92	0.000	14.58	0.544	26.25	0.429	37.92	1.805	49.58	0.855	61.25	2.195	72.92	1.347	84.58	2.723
3.00	0.000	14.67	0.565	26.33	0.421	38.00	1.834	49.67	0.839	61.33	2.231	73.00	1.321	84.67	2.779
3.08	0.000	14.75	0.587	26.42	0.413	38.08	1.862	49.75	0.823	61.42	2.268	73.08	1.296	84.75	2.836
3.17	0.000	14.83	0.608	26.50	0.404	38.17	1.891	49.83	0.808	61.50	2.304	73.17	1.271	84.83	2.893
3.25	0.000	14.92	0.628	26.58	0.396	38.25	1.918	49.92	0.793	61.58	2.341	73.25	1.246	84.92	2.951
3.33	0.000	15.00	0.649	26.67	0.388	38.33	1.946	50.00	0.778	61.67	2.377	73.33	1.222	85.00	3.009
3.42	0.000	15.08	0.670	26.75	0.380	38.42	1.970	50.08	0.763	61.75	2.413	73.42	1.199	85.08	3.066
3.50	0.000	15.17	0.691	26.83	0.372	38.50	1.992	50.17	0.748	61.83	2.450	73.50	1.177	85.17	3.124
3.58	0.000	15.25	0.712	26.92	0.365	38.58	2.014	50.25	0.734	61.92	2.486	73.58	1.155	85.25	3.181
3.67	0.000	15.33	0.733	27.00	0.358	38.67	2.035	50.33	0.720	62.00	2.521	73.67	1.134	85.33	3.237
3.75	0.000	15.42	0.753	27.08	0.351	38.75	2.055	50.42	0.707	62.08	2.557	73.75	1.113	85.42	3.294
3.83	0.000	15.50	0.773	27.17	0.345	38.83	2.076	50.50	0.694	62.17	2.591	73.83	1.093	85.50	3.350
3.92	0.000	15.58	0.793	27.25	0.339	38.92	2.098	50.58	0.681	62.25	2.626	73.92	1.073	85.58	3.406
4.00	0.000	15.67	0.812	27.33	0.333	39.00	2.120	50.67	0.669	62.33	2.660	74.00	1.054	85.67	3.462
4.08	0.000	15.75	0.832	27.42	0.327	39.08	2.142	50.75	0.656	62.42	2.695	74.08	1.035	85.75	3.518
4.17	0.000	15.83	0.851	27.50	0.321	39.17	2.164	50.83	0.644	62.50	2.729	74.17	1.016	85.83	3.574
4.25	0.000	15.92	0.870	27.58	0.315	39.25	2.186	50.92	0.632	62.58	2.764	74.25	0.997	85.92	3.632
4.33	0.000	16.00	0.889	27.67	0.310	39.33	2.207	51.00	0.621	62.67	2.798	74.33	0.979	86.00	3.688
4.42	0.000	16.08	0.908	27.75	0.305	39.42	2.229	51.08	0.609	62.75	2.831	74.42	0.961	86.08	3.744
4.50	0.000	16.17	0.927	27.83	0.299	39.50	2.249	51.17	0.598	62.83	2.864	74.50	0.942	86.17	3.799
4.58	0.000	16.25	0.946	27.92	0.294	39.58	2.269	51.25	0.586	62.92	2.896	74.58	0.924	86.25	3.857
4.67	0.000	16.33	0.964	28.00	0.289	39.67	2.288	51.33	0.575	63.00	2.928	74.67	0.906	86.33	3.917
4.75	0.000	16.42	0.982	28.08	0.284	39.75	2.310	51.42	0.564	63.08	2.959	74.75	0.888	86.42	3.975
4.83	0.000	16.50	0.999	28.17	0.279	39.83	2.326	51.50	0.553	63.17	2.990	74.83	0.871	86.50	4.031
4.92	0.000	16.58	1.015	28.25	0.274	39.92	2.342	51.58	0.542	63.25	3.020	74.92	0.854	86.58	4.086
5.00	0.000	16.67	1.031	28.33	0.270	40.00	2.360	51.67	0.532	63.33	3.049	75.00	0.837	86.67	4.139
5.08	0.000	16.75	1.046	28.42	0.265	40.08	2.377	51.75	0.521	63.42	3.078	75.08	0.820	86.75	4.191
5.17	0.000	16.83	1.061	28.50	0.260	40.17	2.393	51.83	0.512	63.50	3.106	75.17	0.804	86.83	4.242
5.25	0.000	16.92	1.075	28.58	0.255	40.25	2.408	51.92	0.502	63.58	3.133	75.25	0.788	86.92	4.291
5.33	0.000	17.00	1.088	28.67	0.250	40.33	2.423	52.00	0.492	63.67	3.159	75.33	0.773	87.00	4.340
5.42	0.000	17.08	1.102	28.75	0.245	40.42	2.437	52.08	0.482	63.75	3.189	75.42	0.757	87.08	4.387
5.50	0.000	17.17	1.114	28.83	0.241	40.50	2.451	52.17	0.473	63.83	3.211	75.50	0.742	87.17	4.434
5.58	0.000	17.25	1.126	28.92	0.236	40.58	2.464	52.25	0.463	63.92	3.233	75.58	0.727	87.25	4.479
5.67	0.000	17.33	1.138	29.00	0.232	40.67	2.476	52.33	0.454	64.00	3.257	75.67	0.712	87.33	4.524
5.75	0.000	17.42	1.149	29.08	0.228	40.75	2.488	52.42	0.445	64.08	3.280	75.75	0.698	87.42	4.567
5.83	0.000	17.50	1.160	29.17	0.223	40.83	2.499	52.50	0.436	64.17	3.301	75.83	0.685	87.50	4.609
5.92	0.000	17.58	1.169	29.25	0.219	40.92	2.508	52.58	0.427	64.25	3.322	75.92	0.672	87.58	4.650
6.00	0.000	17.67	1.179	29.33	0.215	41.00	2.518	52.67	0.418	64.33	3.342	76.00	0.659	87.67	4.690
6.08	0.000	17.75	1.187	29.42	0.211	41.08	2.527	52.75	0.409	64.42	3.361	76.08	0.646	87.75	4.729
6.17	0.000	17.83	1.195	29.50	0.207	41.17	2.535	52.83	0.401	64.50	3.379	76.17	0.634	87.83	4.772
6.25	0.000	17.92	1.203	29.58	0.203	41.25	2.543	52.92	0.392	64.58	3.397	76.25	0.622	87.92	4.806
6.33	0.000	18.00	1.210	29.67	0.199	41.33	2.553	53.00	0.384	64.67	3.413	76.33	0.610	88.00	4.839
6.42	0.000	18.08	1.217	29.75	0.196	41.42	2.557	53.08	0.375	64.75	3.429	76.42	0.598	88.08	4.874
6.50	0.000	18.17	1.222	29.83	0.192	41.50	2.560	53.17	0.367	64.83	3.443	76.50	0.586	88.17	4.907
6.58	0.000	18.25	1.228	29.92	0.189	41.58	2.568	53.25	0.359	64.92	3.457	76.58	0.575	88.25	4.939
6.67	0.000	18.33	1.232	30.00	0.185	41.67	2.570	53.33	0.352	65.00	3.470	76.67	0.563	88.33	4.969
6.75	0.000	18.42	1.236	30.08	0.182	41.75	2.572	53.42	0.345	65.08	3.483	76.75	0.552	88.42	4.998
6.83	0.000	18.50	1.239	30.17	0.178	41.83	2.576	53.50	0.338	65.17	3.494	76.83	0.540	88.50	5.025
6.92	0.000	18.58	1.241	30.25	0.175	41.92	2.579	53.58	0.331	65.25	3.504	76.92	0.529	88.58	5.051
7.00	0.000	18.67	1.243	30.33	0.172	42.00	2.576	53.67	0.325	65.33	3.519	77.00	0.518	88.67	5.076
7.08	0.000	18.75	1.244	30.42	0.170	42.08	2.574	53.75	0.318	65.42	3.522	77.08	0.507	88.75	5.099
7.17	0.000	18.83	1.244	30.50	0.167	42.17	2.574	53.83	0.312	65.50	3.525	77.17	0.497	88.83	5.120
7.25	0.000	18.92	1.244	30.58	0.165	42.25	2.574	53.92	0.306	65.58	3.536	77.25	0.486	88.92	5.141
7.33	0.000	19.00	1.243	30.67	0.163	42.33	2.571	54.00	0.300	65.67	3.544	77.33	0.476	89.00	5.160
7.42	0.000	19.08	1.241	30.75	0.161	42.42	2.568	54.08	0.295	65.75	3.545	77.42	0.467	89.08	5.177
7.50	0.000	19.17	1.238	30.83	0.159	42.50	2.563	54.17	0.289	65.83	3.546	77.50	0.457	89.17	5.193
7.58	0.000	19.25	1.236	30.92	0.158	42.58	2.557	54.25	0.284	65.92	3.550	77.58	0.448	89.25	5.214
7.67	0.000	19.33	1.232	31.00	0.157	42.67	2.550	54.33	0.279	66.00	3.552	77.67	0.438	89.33	5.222
7.75	0.000	19.42	1.228	31.08	0.156	42.75	2.542	54.42	0.275	66.08	3.552	77.75	0.429	89.42	5.230
7.83	0.000	19.50	1.224	31.17	0.156	42.83	2.532	54.50	0.271	66.17	3.547	77.83	0.420	89.50	5.246
7.92	0.000	19.58	1.219	31.25	0.156	42.92	2.522	54.58	0.267	66.25	3.541	77.92	0.411	89.58	5.252
8.00	0.000	19.67	1.213	31.33	0.156	43.00	2.511	54.67	0.264	66.33	3.538	78.00	0.402	89.67	5.256
8.08	0.000	19.75	1.207	31.42	0.157	43.08	2.499	54.75	0.260	66.42	3.532	78.08	0.393	89.75	5.265
8.17	0.000	19.83	1.201	31.50	0.158	43.17	2.486	54.83	0.258	66.50	3.526	78.17	0.385	89.83	5.272
8.25	0.000	19.92	1.194	31.58	0.160	43.25	2.473	54.92	0.256	66.58	3.517	78.25	0.377	89.92	5.269
8.33	0.000	20.00	1.187	31.67	0.162	43.33	2.463	55.00	0.254	66.67	3.507	78.33	0.369	90.00	5.265
8.42	0.000	20.08	1.179	31.75	0.165	43.42	2.451	55.08	0.253	66.75	3.496	78.42	0.363	90.08	5.267
8.50	0.000	20.17	1.172	31.83	0.168	43.50	2.433	55.17	0.252	66.83	3.483	78.50	0.357	90.17	5.266
8.58	0.000	20.25	1.163	31.92	0.172	43.58	2.419	55.25	0.252	66.92	3.468	78.58	0.352	90.25	5.263
8.67	0.000	20.33	1.154	32.00	0.176	43.67	2.403	55.33	0.253	67.00	3.453	78.67	0.347	90.33	5.257
8.75	0.000	20.42	1.146	32.08	0.181	43.75	2.382	55.42	0.254	67.08	3.436	78.75	0.344	90.42	5.249
8.83	0.000	20.50	1.136	32.17	0.186	43.83	2.367	55.50	0.256	67.17	3.422	78.83	0.341	90.50	5.239
8.92	0.000	20.58	1.126	32.25	0.191	43.92	2.351	55.58	0.259	67.25	3.407	78.92	0.339	90.58	5.226
9.00	0.000	20.67	1.117	32.33	0.197	44.00	2.328	55.67	0.262	67.33	3.387	79.00	0.338	90.67	5.211
9.08	0.000	20.75	1.107	32.42	0.204	44.08	2.312	55.75	0.267	67.42	3.366	79.08	0.338	90.75	5.194
9.17	0.000	20.83	1.097	32.50	0.212	44.17	2.295	55.83	0.272	67.50	3.348	79.17	0.338	90.83	5.175
9.25	0.000	20.92	1.086	32.58	0.220	44.25	2.273	55.92	0.277	67.58	3.329	79.25	0.340	90.92	5.155
9.33	0.000	21.00	1.076	32.67	0.229	44.33	2.251	56.00	0.284	67.67	3.304	79.33	0.342	91.00	5.133
9.42	0.000	21.08	1.065	32.75	0.238	44.42	2.231	56.08	0.291	67.75	3.285	79.42	0.346	91.08	5.109
9.50	0.000	21.17	1.054	32.83	0.248	44.50	2.209	56.17	0.299	67.83	3.265	79.50	0.350	91.17	5.084
9.58	0.000	21.25	1.043	32.92	0.259	44.58	2.186	56.25	0.308	67.92	3.236	79.58	0.356	91.25	5.057
9.67	0.001	21.33	1.032	33.00	0.270	44.67	2.164	56.33	0.318	68.00	3.215	79.67	0.364	91.33	5.028
9.75	0.001	21.42	1.021	33.08	0.283	44.75	2.141	56.42	0.329	68.08	3.192	79.75	0.372	91.42	5.007
9.83	0.001	21.50	1.009	33.17	0.296	44.83	2.117	56.50	0.341	68.17	3.160	79.83	0.382	91.50	4.981
9.92	0.002	21.58	0.998	33.25	0.310	44.92	2.093	56.58	0.354	68.25	3.137	79.92	0.393	91.58	4.946
10.00	0.002	21.67	0.986	33.33	0.324	45.00	2.069	56.67	0.368	68.33	3.113	80.00	0.406	91.67	4.916
10.08	0.003	21.75	0.975	33.42	0.339	45.08	2.045	56.75	0.384	68.42	3.083	80.08	0.419	91.75	4.885
10.17	0.003	21.83	0.963	33.50	0.355	45.17	2.021	56.83	0.400	68.50	3.053	80.17	0.434	91.83	4.844
10.25	0.004	21.92	0.952	33.58	0.372	45.25	1.996	56.92	0.418	68.58	3.024	80.25	0.449	91.92	4.813
10.33	0.005	22.00	0.940	33.67	0.389	45.33	1.972	57.00	0.436	68.67	2.995	80.33	0.465	92.00	4.779
10.42	0.006	22.08	0.929	33.75	0.408	45.42	1.947	57.08	0.456	68.75	2.964	80.42	0.482	92.08	4.734
10.50	0.007	22.17	0.917	33.83	0.427	45.50	1.923	57.17	0.476	68.83	2.932	80.50	0.501	92.17	4.700
10.58	0.008	22.25	0.906	33.92	0.447	45.58	1.898	57.25	0.496	68.92	2.901	80.58	0.520	92.25	4.663
10.67	0.010	22.33	0.894	34.00	0.467	45.67	1.874	57.33	0.517	69.00	2.869	80.67	0.542	92.33	4.621
10.75	0.011	22.42	0.883	34.08	0.489	45.75	1.849	57.42	0.539	69.08	2.837	80.75	0.565	92.42	4.578
10.83	0.013	22.50	0.871	34.17	0.510	45.83	1.824	57.50	0.562	69.17	2.804	80.83	0.589	92.50	4.536
10.92	0.015	22.58	0.860	34.25	0.532	45.92	1.799	57.58	0.585	69.25	2.771	80.92	0.616	92.58	4.493
11.00	0.017	22.67	0.848	34.33	0.554	46.00	1.774	57.67	0.610	69.33	2.738	81.00	0.644	92.67	4.449
11.08	0.020	22.75	0.836	34.42	0.576	46.08	1.747	57.75	0.636	69.42	2.705	81.08	0.674	92.75	4.404
11.17	0.022	22.83	0.825	34.50	0.599	46.17	1.720	57.83	0.664	69.50	2.672	81.17	0.704	92.83	4.359
11.25	0.025	22.92	0.812	34.58	0.623	46.25	1.690	57.92	0.692	69.58	2.638	81.25	0.736	92.92	4.313
11.33	0.029	23.00	0.800	34.67	0.647	46.33	1.662	58.00	0.721	69.67	2.605	81.33	0.770	93.00	4.267
11.42	0.033	23.08	0.788	34.75	0.673	46.42	1.632	58.08	0.750	69.75	2.571	81.42	0.806	93.08	4.221
11.50	0.037	23.17	0.777	34.83	0.699	46.50	1.603	58.17	0.781	69.83	2.538	81.50	0.843	93.17	4.174
11.58	0.041	23.25	0.765	34.92	0.725	46.58	1.576	58.25	0.812	69.92	2.504	81.58	0.882	93.25	4.126

TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
93.33	4.078	105.00	1.185	116.67	8.455	128.33	0.907	140.00	5.856	151.67	0.547	163.33	4.197	175.00	0.397
93.42	4.030	105.08	1.245	116.75	8.371	128.42	0.923	140.08	5.818	151.75	0.549	163.42	4.169	175.08	0.392
93.50	3.982	105.17	1.308	116.83	8.286	128.50	0.941	140.17	5.770	151.83	0.552	163.50	4.141	175.17	0.388
93.58	3.933	105.25	1.373	116.92	8.200	128.58	0.960	140.25	5.728	151.92	0.556	163.58	4.119	175.25	0.385
93.67	3.884	105.33	1.442	117.00	8.113	128.67	0.981	140.33	5.683	152.00	0.561	163.67	4.094	175.33	0.382
93.75	3.834	105.42	1.514	117.08	8.026	128.75	1.004	140.42	5.634	152.08	0.567	163.75	4.061	175.42	0.380
93.83	3.785	105.50	1.587	117.17	7.938	128.83	1.028	140.50	5.584	152.17	0.574	163.83	4.033	175.50	0.380
93.92	3.735	105.58	1.661	117.25	7.855	128.92	1.054	140.58	5.534	152.25	0.582	163.92	4.004	175.58	0.379
94.00	3.685	105.67	1.736	117.33	7.774	129.00	1.082	140.67	5.481	152.33	0.592	164.00	3.972	175.67	0.380
94.08	3.636	105.75	1.813	117.42	7.691	129.08	1.112	140.75	5.429	152.42	0.603	164.08	3.938	175.75	0.382
94.17	3.586	105.83	1.893	117.50	7.606	129.17	1.144	140.83	5.374	152.50	0.616	164.17	3.905	175.83	0.384
94.25	3.537	105.92	1.973	117.58	7.519	129.25	1.177	140.92	5.318	152.58	0.629	164.25	3.871	175.92	0.387
94.33	3.488	106.00	2.047	117.67	7.441	129.33	1.212	141.00	5.259	152.67	0.644	164.33	3.835	176.00	0.391
94.42	3.439	106.08	2.119	117.75	7.360	129.42	1.249	141.08	5.200	152.75	0.659	164.42	3.800	176.08	0.395
94.50	3.390	106.17	2.192	117.83	7.281	129.50	1.288	141.17	5.138	152.83	0.676	164.50	3.763	176.17	0.401
94.58	3.341	106.25	2.264	117.92	7.200	129.58	1.329	141.25	5.077	152.92	0.694	164.58	3.726	176.25	0.407
94.67	3.293	106.33	2.340	118.00	7.117	129.67	1.373	141.33	5.015	153.00	0.713	164.67	3.689	176.33	0.414
94.75	3.247	106.42	2.419	118.08	7.032	129.75	1.418	141.42	4.954	153.08	0.734	164.75	3.651	176.42	0.422
94.83	3.201	106.50	2.500	118.17	6.946	129.83	1.465	141.50	4.892	153.17	0.756	164.83	3.613	176.50	0.431
94.92	3.155	106.58	2.583	118.25	6.860	129.92	1.513	141.58	4.829	153.25	0.779	164.92	3.574	176.58	0.441
95.00	3.109	106.67	2.667	118.33	6.775	130.00	1.561	141.67	4.766	153.33	0.804	165.00	3.535	176.67	0.452
95.08	3.066	106.75	2.752	118.42	6.691	130.08	1.610	141.75	4.705	153.42	0.830	165.08	3.495	176.75	0.463
95.17	3.022	106.83	2.840	118.50	6.607	130.17	1.661	141.83	4.644	153.50	0.858	165.17	3.455	176.83	0.474
95.25	2.980	106.92	2.930	118.58	6.525	130.25	1.713	141.92	4.586	153.58	0.887	165.25	3.415	176.92	0.487
95.33	2.937	107.00	3.022	118.67	6.442	130.33	1.765	142.00	4.527	153.67	0.918	165.33	3.375	177.00	0.500
95.42	2.893	107.08	3.117	118.75	6.360	130.42	1.819	142.08	4.467	153.75	0.948	165.42	3.335	177.08	0.514
95.50	2.849	107.17	3.212	118.83	6.277	130.50	1.874	142.17	4.406	153.83	0.979	165.50	3.296	177.17	0.528
95.58	2.805	107.25	3.309	118.92	6.195	130.58	1.930	142.25	4.346	153.92	1.012	165.58	3.257	177.25	0.544
95.67	2.761	107.33	3.406	119.00	6.112	130.67	1.982	142.33	4.285	154.00	1.045	165.67	3.218	177.33	0.561
95.75	2.716	107.42	3.505	119.08	6.029	130.75	2.031	142.42	4.225	154.08	1.080	165.75	3.179	177.42	0.578
95.83	2.672	107.50	3.607	119.17	5.946	130.83	2.082	142.50	4.164	154.17	1.115	165.83	3.139	177.50	0.597
95.92	2.628	107.58	3.712	119.25	5.864	130.92	2.132	142.58	4.104	154.25	1.151	165.92	3.099	177.58	0.617
96.00	2.584	107.67	3.817	119.33	5.781	131.00	2.183	142.67	4.044	154.33	1.189	166.00	3.064	177.67	0.637
96.08	2.540	107.75	3.923	119.42	5.705	131.08	2.237	142.75	3.984	154.42	1.227	166.08	3.028	177.75	0.659
96.17	2.497	107.83	4.028	119.50	5.621	131.17	2.293	142.83	3.924	154.50	1.266	166.17	2.989	177.83	0.681
96.25	2.454	107.92	4.142	119.58	5.539	131.25	2.350	142.92	3.864	154.58	1.307	166.25	2.949	177.92	0.704
96.33	2.411	108.00	4.260	119.67	5.457	131.33	2.408	143.00	3.809	154.67	1.348	166.33	2.910	178.00	0.728
96.42	2.369	108.08	4.375	119.75	5.375	131.42	2.468	143.08	3.748	154.75	1.391	166.42	2.870	178.08	0.752
96.50	2.327	108.17	4.490	119.83	5.294	131.50	2.528	143.17	3.689	154.83	1.435	166.50	2.830	178.17	0.777
96.58	2.285	108.25	4.604	119.92	5.212	131.58	2.588	143.25	3.631	154.92	1.480	166.58	2.790	178.25	0.803
96.67	2.243	108.33	4.718	120.00	5.131	131.67	2.648	143.33	3.573	155.00	1.526	166.67	2.749	178.33	0.830
96.75	2.201	108.42	4.832	120.08	5.050	131.75	2.710	143.42	3.515	155.08	1.571	166.75	2.709	178.42	0.859
96.83	2.159	108.50	4.945	120.17	4.968	131.83	2.772	143.50	3.458	155.17	1.616	166.83	2.668	178.50	0.888
96.92	2.118	108.58	5.058	120.25	4.886	131.92	2.836	143.58	3.402	155.25	1.661	166.92	2.628	178.58	0.918
97.00	2.078	108.67	5.170	120.33	4.804	132.00	2.901	143.67	3.346	155.33	1.708	167.00	2.587	178.67	0.948
97.08	2.039	108.75	5.280	120.42	4.721	132.08	2.967	143.75	3.291	155.42	1.754	167.08	2.547	178.75	0.979
97.17	2.001	108.83	5.388	120.50	4.638	132.17	3.033	143.83	3.238	155.50	1.801	167.17	2.508	178.83	1.009
97.25	1.962	108.92	5.497	120.58	4.553	132.25	3.099	143.92	3.187	155.58	1.847	167.25	2.468	178.92	1.040
97.33	1.925	109.00	5.603	120.67	4.471	132.33	3.166	144.00	3.135	155.67	1.895	167.33	2.429	179.00	1.071
97.42	1.887	109.08	5.709	120.75	4.393	132.42	3.233	144.08	3.084	155.75	1.943	167.42	2.390	179.08	1.103
97.50	1.851	109.17	5.813	120.83	4.316	132.50	3.300	144.17	3.033	155.83	1.988	167.50	2.351	179.17	1.135
97.58	1.815	109.25	5.917	120.92	4.239	132.58	3.366	144.25	2.984	155.92	2.029	167.58	2.312	179.25	1.168
97.67	1.779	109.33	6.027	121.00	4.161	132.67	3.434	144.33	2.938	156.00	2.070	167.67	2.273	179.33	1.202
97.75	1.744	109.42	6.142	121.08	4.083	132.75	3.501	144.42	2.892	156.08	2.111	167.75	2.238	179.42	1.236
97.83	1.708	109.50	6.253	121.17	4.006	132.83	3.570	144.50	2.846	156.17	2.151	167.83	2.197	179.50	1.270
97.92	1.669	109.58	6.362	121.25	3.929	132.92	3.640	144.58	2.799	156.25	2.194	167.92	2.158	179.58	1.304
98.00	1.630	109.67	6.469	121.33	3.853	133.00	3.710	144.67	2.752	156.33	2.237	168.00	2.120	179.67	1.339
98.08	1.593	109.75	6.575	121.42	3.779	133.08	3.780	144.75	2.705	156.42	2.281	168.08	2.083	179.75	1.375
98.17	1.554	109.83	6.678	121.50	3.705	133.17	3.849	144.83	2.658	156.50	2.325	168.17	2.046	179.83	1.411
98.25	1.515	109.92	6.781	121.58	3.632	133.25	3.922	144.92	2.611	156.58	2.370	168.25	2.010	179.92	1.448
98.33	1.478	110.00	6.882	121.67	3.561	133.33	3.998	145.00	2.564	156.67	2.416	168.33	1.973	180.00	1.485
98.42	1.443	110.08	6.982	121.75	3.491	133.42	4.072	145.08	2.517	156.75	2.461	168.42	1.938	180.08	1.523
98.50	1.411	110.17	7.081	121.83	3.421	133.50	4.145	145.17	2.471	156.83	2.507	168.50	1.902	180.17	1.560
98.58	1.379	110.25	7.181	121.92	3.353	133.58	4.217	145.25	2.426	156.92	2.552	168.58	1.867	180.25	1.596
98.67	1.350	110.33	7.282	122.00	3.286	133.67	4.287	145.33	2.380	157.00	2.598	168.67	1.833	180.33	1.631
98.75	1.321	110.42	7.384	122.08	3.222	133.75	4.356	145.42	2.336	157.08	2.643	168.75	1.799	180.42	1.667
98.83	1.294	110.50	7.487	122.17	3.159	133.83	4.425	145.50	2.291	157.17	2.688	168.83	1.766	180.50	1.703
98.92	1.266	110.58	7.589	122.25	3.098	133.92	4.493	145.58	2.245	157.25	2.733	168.92	1.732	180.58	1.739
99.00	1.239	110.67	7.691	122.33	3.037	134.00	4.560	145.67	2.201	157.33	2.780	169.00	1.696	180.67	1.776
99.08	1.212	110.75	7.792	122.42	2.977	134.08	4.626	145.75	2.156	157.42	2.827	169.08	1.659	180.75	1.812
99.17	1.187	110.83	7.892	122.50	2.919	134.17	4.691	145.83	2.112	157.50	2.873	169.17	1.623	180.83	1.848
99.25	1.163	110.92	7.990	122.58	2.866	134.25	4.756	145.92	2.070	157.58	2.919	169.25	1.587	180.92	1.884
99.33	1.139	111.00	8.087	122.67	2.815	134.33	4.820	146.00	2.029	157.67	2.965	169.33	1.550	181.00	1.919
99.42	1.116	111.08	8.182	122.75	2.763	134.42	4.883	146.08	1.989	157.75	3.011	169.42	1.513	181.08	1.955
99.50	1.094	111.17	8.277	122.83	2.711	134.50	4.946	146.17	1.949	157.83	3.056	169.50	1.479	181.17	1.986
99.58	1.073	111.25	8.375	122.92	2.658	134.58	5.007	146.25	1.909	157.92	3.101	169.58	1.447	181.25	2.015
99.67	1.052	111.33	8.472	123.00	2.606	134.67	5.068	146.33	1.870	158.00	3.146	169.67	1.416	181.33	2.045
99.75	1.031	111.42	8.566	123.08	2.554	134.75	5.127	146.42	1.832	158.08	3.190	169.75	1.387	181.42	2.073
99.83	1.011	111.50	8.656	123.17	2.502	134.83	5.185	146.50	1.794	158.17	3.233	169.83	1.359	181.50	2.102
99.92	0.991	111.58	8.743	123.25	2.451	134.92	5.243	146.58	1.757	158.25	3.276	169.92	1.331	181.58	2.132
100.00	0.971	111.67	8.828	123.33	2.399	135.00	5.300	146.67	1.721	158.33	3.319	170.00	1.305	181.67	2.162
100.08	0.951	111.75	8.919	123.42	2.349	135.08	5.357	146.75	1.681	158.42	3.361	170.08	1.278	181.75	2.193
100.17	0.932	111.83	9.014	123.50	2.298	135.17	5.412	146.83	1.639	158.50	3.402	170.17	1.252	181.83	2.223
100.25	0.912	111.92	9.104	123.58	2.248	135.25	5.465	146.92	1.599	158.58	3.443	170.25	1.226	181.92	2.254
100.33	0.893	112.00	9.188	123.67	2.198	135.33	5.516	147.00	1.560	158.67	3.484	170.33	1.201	182.00	2.285
100.42	0.875	112.08	9.267	123.75	2.149	135.42	5.565	147.08	1.520	158.75	3.524	170.42	1.178	182.08	2.315
100.50	0.857	112.17	9.341	123.83	2.100	135.50	5.614	147.17	1.479	158.83	3.566	170.50	1.154	182.17	2.345
100.58	0.839	112.25	9.412	123.92	2.054	135.58	5.664	147.25	1.442	158.92	3.606	170.58	1.132	182.25	2.375
100.67	0.821	112.33	9.478	124.00	2.009	135.67	5.711	147.33	1.408	159.00	3.645	170.67	1.110	182.33	2.404
100.75	0.804	112.42	9.541	124.08	1.965	135.75	5.761	147.42	1.375	159.08	3.683	170.75	1.089	182.42	2.434
100.83	0.788	112.50	9.599	124.17	1.921	135.83	5.803	147.50	1.344	159.17	3.722	170.83	1.068	182.50	2.462
100.92	0.771	112.58	9.654	124.25	1.879	135.92	5.843	147.58	1.314	159.25	3.763	170.92	1.048	182.58	2.491
101.00	0.755	112.67	9.706	124.33	1.837	136.00	5.884	147.67	1.285	159.33	3.803	171.00	1.029	182.67	2.519
101.08	0.739	112.75	9.754	124.42	1.796	136.08	5.922	147.75	1.256	159.42	3.841	171.08	1.009	182.75	2.546
101.17	0.723	112.83	9.798	124.50	1.755	136.17	5.958	147.83	1.228	159.50	3.878	171.17	0.990	182.83	2.573
101.25	0.708	112.92	9.839	124.58	1.715	136.25	5.992	147.92	1.201	159.58	3.914	171.25	0.970	182.92	2.600
101.33	0.694	113.00	9.877	124.67	1.671	136.33	6.025	148.00	1.175	159.67	3.948	171.33	0.951	183.00	2.626
101.42	0.680	113.08	9.912	124.75	1.625	136.42	6.054	148.08	1.151	159.75	3.981	171.42	0.932	183.08	2.652
101.50	0.666	113.17	9.944	124.83	1.582	136.50	6.083	148.17	1.127	159.83	4.016	171.50	0.913	183.17	2.678
101.58	0.653	113.25	9.973	124.92	1.539	136.58	6.110	148.25	1.103	159.92	4.045	171.58	0.895	183.25	2.704
101.67	0.640	113.33	9.999	125.00	1.496	136.67	6.135	148.33	1.081	160.00	4.072	171.67	0.877	183.33	2.729
101.75	0.627	113.42	10.020	125.08	1.453	136.75	6.159	148.42	1.059	160.08	4.100	171.75	0.859	183.42	2.754
101.83	0.614	113.50	10.038	125.17	1.414	136.83	6.182	148.50	1.038	160.17	4.127	171.83	0.842	183.50	2.777
101.92	0.602	113.58	10.054	125.25	1.377	136.92	6.203	148.58	1.017	160.25	4.152	171.92	0.824	183.58	2.801
102.00	0.590	113.67	10.065	125.33	1.343	137.00	6.223	148.67	0.996	160.33	4.176	172.00	0.807	183.67	2.827
102.08	0.578	113.75	10.072	125.42	1.310	137.08	6.242	148.75	0.975	160.42	4.199	172.08	0.791	183.75	2.846
102.17	0.566	113.83	10.078	125.50	1.279	137.17	6.263	148.83	0.954	160.50	4.221	172.17	0.775	183.83	2.866
102.25	0.555	113.92	10.080	125.58	1.248	137.25	6.275	148.92	0.934	160.58	4.242	172.25	0.759	183.92	2.887
102.33	0.544	114.00	10.078	125.67	1.218	137.33	6.287	149.00	0.914	160.67	4.261	172.33	0.743	184.00	2.907
102.42	0.535	114.08	10.073	125.75	1.189	137.42	6.304	149.08	0.895	160.75	4.279	172.42	0.728	184.08	2.925
102.50	0.527	114.17	10.065	125.83	1.161	137.50	6.312	149.17	0.876	160.83	4.296	172.50	0.713	184.17	2.943
102.58	0.520	114.25	10.053	125.92	1.135	137.58	6.320	149.25	0.857	160.92	4.312	172.58	0.699	184.25	2.961
102.67	0.515	114.33	10.038	126.00	1.110	137.67	6.333	149.33	0.839	161.00	4.327	172.67	0.685	184.33	2.978
102.75	0.512	114.42	10.019	126.08	1.085	137.75	6.337	149.42	0.821	161.08	4.340	172.75	0.671	184.42	2.994
102.83	0.509	114.50	9.997	126.17	1.062	137.83	6.338	149.50	0.804	161.17	4.353	172.83	0.658	184.50	3.009
102.92	0.509	114.58	9.972	126.25	1.039	137.92	6.345	149.58	0.787	161.25	4.368	172.92	0.645	184.58	3.024
103.00	0.509	114.67	9.943	126.33	1.017	138.00	6.349	149.67	0.770	161.33	4.374	173.00	0.633	184.67	3.037
103.08	0.512	114.75	9.910	126.42	0.996	138.08	6.346	149.75	0.754	161.42	4.380	173.08	0.620	184.75	3.050
103.17	0.515	114.83	9.874	126.50	0.976	138.17	6.341	149.83	0.737	161.50	4.391	173.17	0.608	184.83	3.061
103.25	0.521	114.92	9.836	126.58	0.958	138.25	6.339	149.92	0.721	161.58	4.395	173.25	0.596	184.92	3.072
103.33	0.528	115.00	9.794	126.67	0.941	138.33	6.336	150.00	0.706	161.67	4.398	173.33	0.584	185.00	3.082
103.42	0.538	115.08	9.749	126.75	0.925	138.42	6.330	150.08	0.691	161.75	4.404	173.42	0.572	185.08	3.092
103.50	0.550	115.17	9.701	126.83	0.910	138.50	6.323	150.17	0.677	161.83	4.408	173.50	0.560	185.17	3.100
103.58	0.564	115.25	9.651	126.92	0.897	138.58	6.313	150.25	0.664	161.92	4.404	173.58	0.548	185.25	3.112
103.67	0.581	115.33	9.598	127.00	0.885	138.67	6.302	150.33	0.651	162.00	4.400	173.67	0.537	185.33	3.115
103.75	0.600	115.42	9.542	127.08	0.874	138.75	6.287	150.42	0.639	162.08	4.401	173.75	0.525	185.42	3.117
103.83	0.621	115.50	9.483	127.17	0.865	138.83	6.271	150.50	0.627	162.17	4.399	173.83	0.513	185.50	3.126
103.92	0.645	115.58	9.423	127.25	0.857	138.92	6.252	150.58	0.616	162.25	4.395	173.92	0.502	185.58	3.133
104.00	0.670	115.67	9.359	127.33	0.851	139.00	6.231	150.67	0.606	162.33	4.389	174.00	0.492	185.67	3.132
104.08	0.698	115.75	9.294	127.42	0.846	139.08	6.207	150.75	0.597	162.42	4.381	174.08	0.481	185.75	3.130
104.17	0.729	115.83	9.227	127.50	0.843	139.17	6.181	150.83	0.588	162.50	4.371	174.17	0.471	185.83	3.134
104.25	0.763	115.92	9.156	127.58	0.842	139.25	6.154	150.92	0.580	162.58	4.360	174.25	0.461	185.92	3.136
104.33	0.799	116.00	9.085	127.67	0.843	139.33	6.124	151.00	0.573	162.67	4.347	174.33	0.452	186.00	3.137
104.42	0.838	116.08	9.012	127.75	0.845	139.42	6.093	151.08	0.566	162.75	4.332	174.42	0.443	186.08	3.136
104.50	0.881	116.17	8.937	127.83	0.849	139.50	6.062	151.17	0.560	162.83	4.315	174.50	0.435	186.17	3.128
104.58	0.925	116.25	8.860	127.92	0.854	139.58	6.030	151.25	0.555	162.92	4.297	174.58	0.427	186.25	3.120
104.67	0.972	116.33	8.781	128.00	0.861	139.67	6.002	151.33	0.551	163.00	4.278	174.67	0.420	186.33	3.118
104.75	1.021	116.42	8.702	128.08	0.870	139.75	5.970	151.42	0.549	163.08	4.257	174.75	0.414	186.42	3.113
104.83	1.072	116.50	8.621	128.17	0.881	139.83	5.931	151.50	0.547	163.17	4.235	174.83	0.407	186.50	3.107
104.92	1.127	116.58	8.538	128.25	0.893	139.92	5.891	151.58	0.546	163.25	4.217	174.92	0.402	186.58	3.099

TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
186.67	3.090	198.33	0.324	210.00	2.374	221.67	0.295	233.33	2.829	245.00	0.415	256.67	0.014	268.33	0.000
186.75	3.080	198.42	0.319	210.08	2.372	221.75	0.289	233.42	2.832	245.08	0.406	256.75	0.013	268.42	0.000
186.83	3.068	198.50	0.313	210.17	2.369	221.83	0.284	233.50	2.840	245.17	0.397	256.83	0.013	268.50	0.000
186.92	3.055	198.58	0.308	210.25	2.365	221.92	0.279	233.58	2.846	245.25	0.388	256.92	0.012	268.58	0.000
187.00	3.041	198.67	0.303	210.33	2.360	222.00	0.274	233.67	2.844	245.33	0.380	257.00	0.012	268.67	0.000
187.08	3.031	198.75	0.299	210.42	2.355	222.08	0.269	233.75	2.843	245.42	0.372	257.08	0.012	268.75	0.000
187.17	3.019	198.83	0.295	210.50	2.348	222.17	0.264	233.83	2.846	245.50	0.364	257.17	0.011	268.83	0.000
187.25	3.000	198.92	0.291	210.58	2.341	222.25	0.259	233.92	2.848	245.58	0.356	257.25	0.011	268.92	0.000
187.33	2.980	199.00	0.288	210.67	2.333	222.33	0.254	234.00	2.848	245.67	0.348	257.33	0.011	269.00	0.000
187.42	2.966	199.08	0.285	210.75	2.324	222.42	0.249	234.08	2.847	245.75	0.341	257.42	0.010	269.08	0.000
187.50	2.950	199.17	0.283	210.83	2.314	222.50	0.245	234.17	2.840	245.83	0.334	257.50	0.010	269.17	0.000
187.58	2.926	199.25	0.281	210.92	2.304	222.58	0.241	234.25	2.833	245.92	0.328	257.58	0.010	269.25	0.000
187.67	2.908	199.33	0.279	211.00	2.293	222.67	0.238	234.33	2.830	246.00	0.321	257.67	0.009	269.33	0.000
187.75	2.889	199.42	0.278	211.08	2.281	222.75	0.235	234.42	2.826	246.08	0.315	257.75	0.009	269.42	0.000
187.83	2.862	199.50	0.278	211.17	2.268	222.83	0.232	234.50	2.820	246.17	0.309	257.83	0.009	269.50	0.000
187.92	2.843	199.58	0.278	211.25	2.259	222.92	0.230	234.58	2.812	246.25	0.303	257.92	0.009	269.58	0.000
188.00	2.822	199.67	0.278	211.33	2.248	223.00	0.228	234.67	2.803	246.33	0.297	258.00	0.008	269.67	0.000
188.08	2.798	199.75	0.279	211.42	2.231	223.08	0.227	234.75	2.793	246.42	0.292	258.08	0.008	269.75	0.000
188.17	2.772	199.83	0.280	211.50	2.217	223.17	0.226	234.83	2.782	246.50	0.286	258.17	0.008	269.83	0.000
188.25	2.748	199.92	0.282	211.58	2.202	223.25	0.226	234.92	2.770	246.58	0.281	258.25	0.008	269.92	0.000
188.33	2.723	200.00	0.285	211.67	2.182	223.33	0.226	235.00	2.757	246.67	0.275	258.33	0.008	270.00	0.000
188.42	2.697	200.08	0.288	211.75	2.168	223.42	0.227	235.08	2.749	246.75	0.270	258.42	0.007	270.08	0.000
188.50	2.671	200.17	0.291	211.83	2.153	223.50	0.228	235.17	2.737	246.83	0.265	258.50	0.007	270.17	0.000
188.58	2.644	200.25	0.296	211.92	2.134	223.58	0.230	235.25	2.719	246.92	0.260	258.58	0.007	270.25	0.000
188.67	2.618	200.33	0.300	212.00	2.114	223.67	0.232	235.33	2.701	247.00	0.254	258.67	0.007	270.33	0.000
188.75	2.590	200.42	0.306	212.08	2.096	223.75	0.235	235.42	2.688	247.08	0.249	258.75	0.007	270.42	0.000
188.83	2.563	200.50	0.312	212.17	2.076	223.83	0.239	235.50	2.673	247.17	0.244	258.83	0.006	270.50	0.000
188.92	2.535	200.58	0.319	212.25	2.057	223.92	0.243	235.58	2.651	247.25	0.239	258.92	0.006	270.58	0.000
189.00	2.507	200.67	0.326	212.33	2.037	224.00	0.248	235.67	2.635	247.33	0.234	259.00	0.006	270.67	0.000
189.08	2.478	200.75	0.334	212.42	2.017	224.08	0.253	235.75	2.617	247.42	0.229	259.08	0.006	270.75	0.000
189.17	2.450	200.83	0.343	212.50	1.996	224.17	0.260	235.83	2.593	247.50	0.225	259.17	0.006	270.83	0.000
189.25	2.421	200.92	0.353	212.58	1.975	224.25	0.266	235.92	2.576	247.58	0.220	259.25	0.006	270.92	0.000
189.33	2.392	201.00	0.363	212.67	1.954	224.33	0.274	236.00	2.557	247.67	0.216	259.33	0.006	271.00	0.000
189.42	2.363	201.08	0.375	212.75	1.933	224.42	0.282	236.08	2.534	247.75	0.211	259.42	0.005	271.08	0.000
189.50	2.333	201.17	0.387	212.83	1.912	224.50	0.291	236.17	2.511	247.83	0.207	259.50	0.005	271.17	0.000
189.58	2.303	201.25	0.399	212.92	1.890	224.58	0.301	236.25	2.489	247.92	0.203	259.58	0.005	271.25	0.000
189.67	2.273	201.33	0.413	213.00	1.869	224.67	0.312	236.33	2.466	248.00	0.199	259.67	0.005	271.33	0.000
189.75	2.243	201.42	0.427	213.08	1.847	224.75	0.323	236.42	2.443	248.08	0.195	259.75	0.005	271.42	0.000
189.83	2.212	201.50	0.442	213.17	1.824	224.83	0.335	236.50	2.419	248.17	0.191	259.83	0.005	271.50	0.000
189.92	2.183	201.58	0.458	213.25	1.802	224.92	0.348	236.58	2.394	248.25	0.187	259.92	0.005	271.58	0.000
190.00	2.153	201.67	0.474	213.33	1.778	225.00	0.363	236.67	2.369	248.33	0.183	260.00	0.004	271.67	0.000
190.08	2.123	201.75	0.490	213.42	1.753	225.08	0.378	236.75	2.344	248.42	0.180	260.08	0.004	271.75	0.000
190.17	2.093	201.83	0.506	213.50	1.726	225.17	0.394	236.83	2.318	248.50	0.176	260.17	0.004	271.83	0.000
190.25	2.062	201.92	0.523	213.58	1.700	225.25	0.411	236.92	2.293	248.58	0.173	260.25	0.004	271.92	0.000
190.33	2.032	202.00	0.540	213.67	1.675	225.33	0.429	237.00	2.266	248.67	0.169	260.33	0.004	272.00	0.000
190.42	2.002	202.08	0.557	213.75	1.647	225.42	0.448	237.08	2.241	248.75	0.166	260.42	0.004	272.08	0.000
190.50	1.972	202.17	0.576	213.83	1.622	225.50	0.467	237.17	2.215	248.83	0.162	260.50	0.004	272.17	0.000
190.58	1.942	202.25	0.595	213.92	1.596	225.58	0.487	237.25	2.188	248.92	0.159	260.58	0.004	272.25	0.000
190.67	1.912	202.33	0.615	214.00	1.572	225.67	0.508	237.33	2.161	249.00	0.155	260.67	0.004	272.33	0.000
190.75	1.882	202.42	0.635	214.08	1.549	225.75	0.529	237.42	2.134	249.08	0.152	260.75	0.003	272.42	0.000
190.83	1.853	202.50	0.657	214.17	1.526	225.83	0.550	237.50	2.106	249.17	0.149	260.83	0.003	272.50	0.000
190.92	1.824	202.58	0.679	214.25	1.503	225.92	0.571	237.58	2.079	249.25	0.146	260.92	0.003	272.58	0.000
191.00	1.795	202.67	0.701	214.33	1.481	226.00	0.594	237.67	2.051	249.33	0.143	261.00	0.003	272.67	0.000
191.08	1.766	202.75	0.723	214.42	1.459	226.08	0.618	237.75	2.024	249.42	0.140	261.08	0.003	272.75	0.000
191.17	1.739	202.83	0.746	214.50	1.438	226.17	0.642	237.83	1.996	249.50	0.137	261.17	0.003	272.83	0.000
191.25	1.705	202.92	0.770	214.58	1.416	226.25	0.667	237.92	1.968	249.58	0.134	261.25	0.003	272.92	0.000
191.33	1.672	203.00	0.794	214.67	1.395	226.33	0.694	238.00	1.941	249.67	0.131	261.33	0.003	273.00	0.000
191.42	1.641	203.08	0.818	214.75	1.373	226.42	0.720	238.08	1.913	249.75	0.129	261.42	0.003	273.08	0.000
191.50	1.608	203.17	0.844	214.83	1.352	226.50	0.747	238.17	1.886	249.83	0.126	261.50	0.003	273.17	0.000
191.58	1.574	203.25	0.869	214.92	1.330	226.58	0.774	238.25	1.859	249.92	0.123	261.58	0.003	273.25	0.000
191.67	1.543	203.33	0.896	215.00	1.308	226.67	0.803	238.33	1.832	250.00	0.120	261.67	0.002	273.33	0.000
191.75	1.514	203.42	0.923	215.08	1.286	226.75	0.832	238.42	1.804	250.08	0.118	261.75	0.002	273.42	0.000
191.83	1.486	203.50	0.950	215.17	1.265	226.83	0.862	238.50	1.777	250.17	0.115	261.83	0.002	273.50	0.000
191.92	1.459	203.58	0.976	215.25	1.244	226.92	0.892	238.58	1.749	250.25	0.112	261.92	0.002	273.58	0.000
192.00	1.433	203.67	1.003	215.33	1.224	227.00	0.924	238.67	1.721	250.33	0.110	262.00	0.002	273.67	0.000
192.08	1.407	203.75	1.029	215.42	1.204	227.08	0.955	238.75	1.689	250.42	0.107	262.08	0.002	273.75	0.000
192.17	1.382	203.83	1.056	215.50	1.184	227.17	0.987	238.83	1.659	250.50	0.105	262.17	0.002	273.83	0.000
192.25	1.358	203.92	1.083	215.58	1.165	227.25	1.018	238.92	1.627	250.58	0.102	262.25	0.002	273.92	0.000
192.33	1.334	204.00	1.110	215.67	1.147	227.33	1.049	239.00	1.596	250.67	0.100	262.33	0.002	274.00	0.000
192.42	1.309	204.08	1.137	215.75	1.128	227.42	1.080	239.08	1.566	250.75	0.098	262.42	0.002	274.08	0.000
192.50	1.285	204.17	1.164	215.83	1.110	227.50	1.112	239.17	1.538	250.83	0.095	262.50	0.002	274.17	0.000
192.58	1.261	204.25	1.192	215.92	1.092	227.58	1.145	239.25	1.511	250.92	0.093	262.58	0.002	274.25	0.000
192.67	1.238	204.33	1.220	216.00	1.075	227.67	1.178	239.33	1.485	251.00	0.090	262.67	0.002	274.33	0.000
192.75	1.215	204.42	1.248	216.08	1.058	227.75	1.211	239.42	1.460	251.08	0.088	262.75	0.002	274.42	0.000
192.83	1.193	204.50	1.275	216.17	1.041	227.83	1.244	239.50	1.435	251.17	0.086	262.83	0.002	274.50	0.000
192.92	1.171	204.58	1.303	216.25	1.023	227.92	1.278	239.58	1.411	251.25	0.083	262.92	0.002	274.58	0.000
193.00	1.151	204.67	1.332	216.33	1.006	228.00	1.311	239.67	1.387	251.33	0.081	263.00	0.002	274.67	0.000
193.08	1.130	204.75	1.360	216.42	0.989	228.08	1.345	239.75	1.364	251.42	0.079	263.08	0.002	274.75	0.000
193.17	1.110	204.83	1.389	216.50	0.973	228.17	1.380	239.83	1.340	251.50	0.077	263.17	0.002	274.83	0.000
193.25	1.091	204.92	1.417	216.58	0.956	228.25	1.415	239.92	1.317	251.58	0.075	263.25	0.001	274.92	0.000
193.33	1.072	205.00	1.446	216.67	0.940	228.33	1.450	240.00	1.293	251.67	0.074	263.33	0.001	275.00	0.000
193.42	1.053	205.08	1.475	216.75	0.923	228.42	1.485	240.08	1.270	251.75	0.072	263.42	0.001	275.08	0.000
193.50	1.035	205.17	1.504	216.83	0.907	228.50	1.521	240.17	1.247	251.83	0.070	263.50	0.001	275.17	0.000
193.58	1.016	205.25	1.532	216.92	0.891	228.58	1.556	240.25	1.225	251.92	0.069	263.58	0.001	275.25	0.000
193.67	0.998	205.33	1.559	217.00	0.875	228.67	1.590	240.33	1.203	252.00	0.067	263.67	0.001	275.33	0.000
193.75	0.980	205.42	1.586	217.08	0.859	228.75	1.623	240.42	1.182	252.08	0.065	263.75	0.001	275.42	0.000
193.83	0.962	205.50	1.612	217.17	0.844	228.83	1.656	240.50	1.162	252.17	0.064	263.83	0.001	275.50	0.000
193.92	0.945	205.58	1.638	217.25	0.828	228.92	1.689	240.58	1.142	252.25	0.063	263.92	0.001	275.58	0.000
194.00	0.927	205.67	1.663	217.33	0.813	229.00	1.723	240.67	1.122	252.33	0.061	264.00	0.001	275.67	0.000
194.08	0.909	205.75	1.689	217.42	0.798	229.08	1.756	240.75	1.103	252.42	0.060	264.08	0.001	275.75	0.000
194.17	0.892	205.83	1.715	217.50	0.784	229.17	1.790	240.83	1.084	252.50	0.058	264.17	0.001	275.83	0.000
194.25	0.875	205.92	1.740	217.58	0.769	229.25	1.823	240.92	1.066	252.58	0.057	264.25	0.001	275.92	0.000
194.33	0.858	206.00	1.766	217.67	0.754	229.33	1.856	241.00	1.048	252.67	0.056	264.33	0.001	276.00	0.000
194.42	0.842	206.08	1.791	217.75	0.740	229.42	1.888	241.08	1.030	252.75	0.054	264.42	0.001	276.08	0.000
194.50	0.825	206.17	1.816	217.83	0.726	229.50	1.920	241.17	1.012	252.83	0.053	264.50	0.001	276.17	0.000
194.58	0.809	206.25	1.841	217.92	0.713	229.58	1.952	241.25	0.994	252.92	0.052	264.58	0.001	276.25	0.000
194.67	0.794	206.33	1.865	218.00	0.700	229.67	1.980	241.33	0.977	253.00	0.051	264.67	0.001	276.33	0.000
194.75	0.778	206.42	1.888	218.08	0.688	229.75	2.005	241.42	0.959	253.08	0.050	264.75	0.001	276.42	0.000
194.83	0.763	206.50	1.911	218.17	0.675	229.83	2.032	241.50	0.942	253.17	0.048	264.83	0.001	276.50	0.000
194.92	0.748	206.58	1.934	218.25	0.663	229.92	2.057	241.58	0.925	253.25	0.047	264.92	0.001	276.58	0.000
195.00	0.733	206.67	1.953	218.33	0.651	230.00	2.081	241.67	0.907	253.33	0.046	265.00	0.001	276.67	0.000
195.08	0.718	206.75	1.971	218.42	0.639	230.08	2.107	241.75	0.891	253.42	0.045	265.08	0.001	276.75	0.000
195.17	0.705	206.83	1.989	218.50	0.627	230.17	2.134	241.83	0.874	253.50	0.043	265.17	0.001	276.83	0.000
195.25	0.691	206.92	2.007	218.58	0.616	230.25	2.160	241.92	0.858	253.58	0.042	265.25	0.001	276.92	0.000
195.33	0.678	207.00	2.022	218.67	0.605	230.33	2.187	242.00	0.841	253.67	0.041	265.33	0.001	277.00	0.000
195.42	0.666	207.08	2.039	218.75	0.593	230.42	2.214	242.08	0.825	253.75	0.039	265.42	0.001	277.08	0.000
195.50	0.653	207.17	2.056	218.83	0.582	230.50	2.240	242.17	0.809	253.83	0.038	265.50	0.001	277.17	0.000
195.58	0.641	207.25	2.074	218.92	0.571	230.58	2.266	242.25	0.794	253.92	0.037	265.58	0.001	277.25	0.000
195.67	0.628	207.33	2.091	219.00	0.560	230.67	2.292	242.33	0.779	254.00	0.036	265.67	0.001	277.33	0.000
195.75	0.616	207.42	2.108	219.08	0.550	230.75	2.317	242.42	0.764	254.08	0.035	265.75	0.001	277.42	0.000
195.83	0.605	207.50	2.125	219.17	0.539	230.83	2.342	242.50	0.749	254.17	0.034	265.83	0.001	277.50	0.000
195.92	0.593	207.58	2.142	219.25	0.529	230.92	2.366	242.58	0.734	254.25	0.033	265.92	0.001	277.58	0.000
196.00	0.582	207.67	2.158	219.33	0.519	231.00	2.390	242.67	0.720	254.33	0.032	266.00	0.001	277.67	0.000
196.08	0.570	207.75	2.174	219.42	0.509	231.08	2.413	242.75	0.706	254.42	0.031	266.08	0.001	277.75	0.000
196.17	0.559	207.83	2.189	219.50	0.499	231.17	2.436	242.83	0.693	254.50	0.030	266.17	0.001	277.83	0.000
196.25	0.548	207.92	2.204	219.58	0.490	231.25	2.459	242.92	0.680	254.58	0.029	266.25	0.001	277.92	0.000
196.33	0.537	208.00	2.218	219.67	0.480	231.33	2.481	243.00	0.668	254.67	0.028	266.33	0.000	278.00	0.000
196.42	0.526	208.08	2.232	219.75	0.471	231.42	2.503	243.08	0.655	254.75	0.027	266.42	0.000	278.08	0.000
196.50	0.515	208.17	2.245	219.83	0.462	231.50	2.527	243.17	0.643	254.83	0.027	266.50	0.000	278.17	0.000
196.58	0.505	208.25	2.258	219.92	0.453	231.58	2.545	243.25	0.631	254.92	0.026	266.58	0.000	278.25	0.000
196.67	0.495	208.33	2.270	220.00	0.444	231.67	2.563	243.33	0.619	255.00	0.025	266.67	0.000	278.33	0.000
196.75	0.484	208.42	2.281	220.08	0.435	231.75	2.583	243.42	0.607	255.08	0.024	266.75	0.000	278.42	0.000
196.83	0.475	208.50	2.291	220.17	0.426	231.83	2.602	243.50	0.596	255.17	0.024	266.83	0.000	278.50	0.000
196.92	0.465	208.58	2.301	220.25	0.417	231.92	2.621	243.58	0.585	255.25	0.023	266.92	0.000	278.58	0.000
197.00	0.456	208.67	2.311	220.33	0.409	232.00	2.638	243.67	0.573	255.33	0.022	267.00	0.000	278.67	0.000
197.08	0.446	208.75	2.319	220.42	0.400	232.08	2.656	243.75	0.562	255.42	0.022	267.08	0.000	278.75	0.000
197.17	0.437	208.83	2.327	220.50	0.391	232.17	2.673	243.83	0.551	255.50	0.021	267.17	0.000	278.83	0.000
197.25	0.428	208.92	2.335	220.58	0.383	232.25	2.689	243.92	0.540	255.58	0.021	267.25	0.000	278.92	0.000
197.33	0.419	209.00	2.345	220.67	0.375	232.33	2.704	244.00	0.529	255.67	0.020	267.33	0.000	279.00	0.000
197.42	0.410	209.08	2.348	220.75	0.366	232.42	2.719	244.08	0.519	255.75	0.019	267.42	0.000	279.08	0.000
197.50	0.401	209.17	2.351	220.83	0.359	232.50	2.733	244.17	0.509	255.83	0.019	267.50	0.000	279.17	0.000
197.58	0.392	209.25	2.360	220.92	0.351	232.58	2.746	244.25	0.499	255.92	0.018	267.58	0.000	279.25	0.000
197.67	0.384	209.33	2.363	221.00	0.344	232.67	2.758	244.33	0.489	256.00	0.018	267.67	0.000	279.33	0.000
197.75	0.375	209.42	2.365	221.08	0.337	232.75	2.770	244.42	0.479	256.08	0.017	267.75	0.000	279.42	0.000
197.83	0.367	209.50	2.371	221.17	0.331	232.83	2.780	244.50	0.469	256.17	0.017	267.83	0.000	279.50	0.000
197.92	0.359	209.58	2.375	221.25	0.324	232.92	2.791	244.58	0.460	256.25	0.016	267.92	0.000	279.58	0.000
198.00	0.352	209.67	2.373	221.33	0.318	233.00	2.800	244.67	0.451	256.33	0.016	268.00	0.000	279.67	0.000
198.08	0.344	209.75	2.371	221.42	0.312	233.08	2.808	244.75	0.442	256.42	0.015	268.08	0.000	279.75	0.000
198.17	0.337	209.83	2.374	221.50	0.306	233.17	2.816	244.83	0.433	256.50	0.015	268.17	0.000	279.83	0.000
198.25	0.331	209.92	2.374	221.58	0.301	233.25	2.826	244.92	0.424	256.58	0.014	268.25	0.000	279.92	0.000

VG1-4 (VG SPRING)



Hydrograph Statistics:

Legend	Filename & Comment	Time Step (min)	Drainage Area (ha)	Peak Flow (cms)	Time to Peak (hrs)	Runoff Volume (mm)	Runoff Volume (cu.m)	Duration of flow (hrs)	Average flow (cms)
——●	H-VG1-4.100 : VG1-4	5.00	609.70	8.316	114.083	250.92	1.530E+06	270.750	1.570

Hydrograph Table:

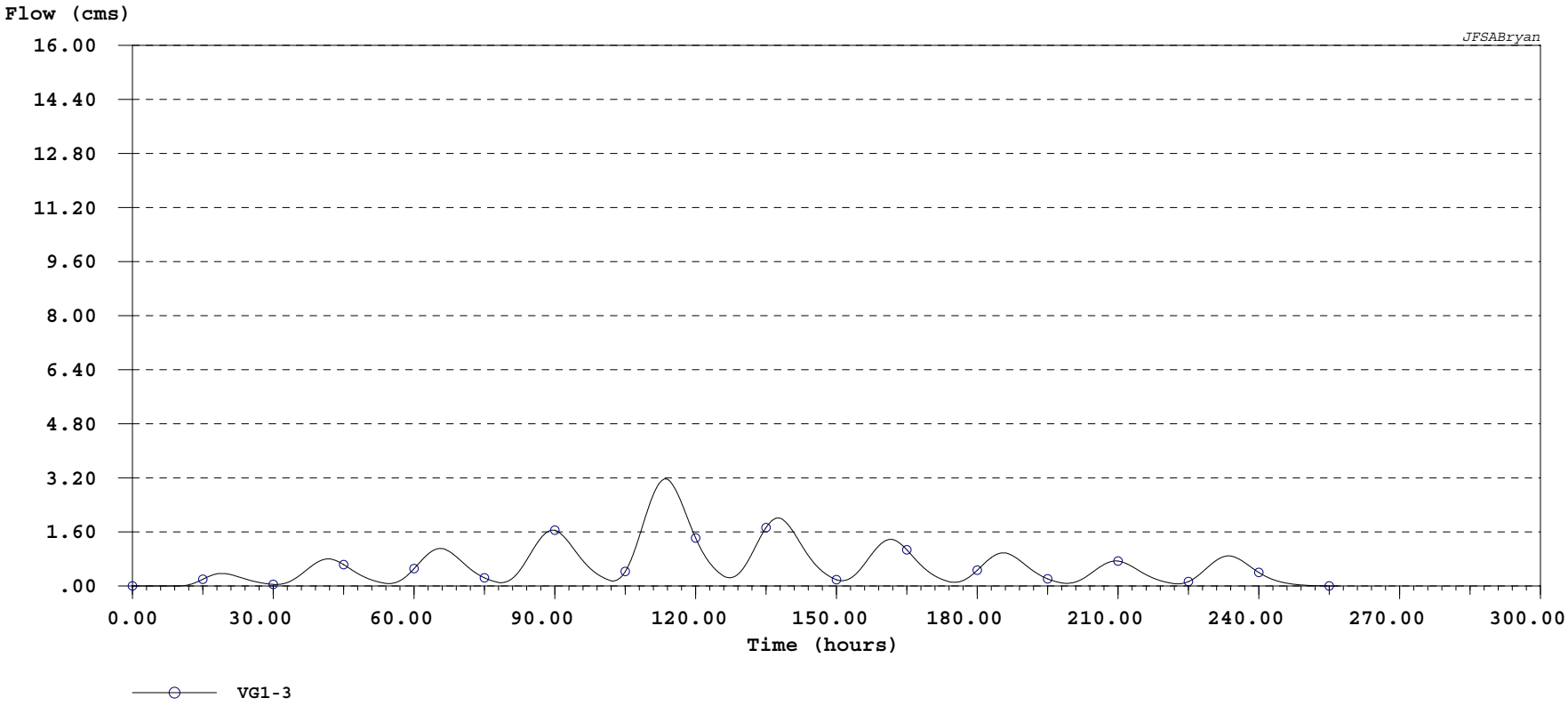
Hydrograph Filename : Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSPRI~1\H-VG1-4.100
Comment in file : VG1-4

TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
0.00	0.000	11.67	0.023	23.33	0.669	35.00	0.575	46.67	1.371	58.33	0.657	70.00	2.114	81.67	0.728
0.08	0.000	11.75	0.027	23.42	0.660	35.08	0.596	46.75	1.353	58.42	0.683	70.08	2.089	81.75	0.758
0.17	0.000	11.83	0.031	23.50	0.652	35.17	0.618	46.83	1.334	58.50	0.708	70.17	2.063	81.83	0.789
0.25	0.000	11.92	0.035	23.58	0.643	35.25	0.639	46.92	1.315	58.58	0.734	70.25	2.037	81.92	0.822
0.33	0.000	12.00	0.040	23.67	0.634	35.33	0.661	47.00	1.296	58.67	0.761	70.33	2.011	82.00	0.854
0.42	0.000	12.08	0.045	23.75	0.626	35.42	0.684	47.08	1.278	58.75	0.788	70.42	1.985	82.08	0.888
0.50	0.000	12.17	0.050	23.83	0.617	35.50	0.706	47.17	1.259	58.83	0.816	70.50	1.957	82.17	0.923
0.58	0.000	12.25	0.055	23.92	0.608	35.58	0.729	47.25	1.241	58.92	0.843	70.58	1.929	82.25	0.959
0.67	0.000	12.33	0.061	24.00	0.600	35.67	0.752	47.33	1.222	59.00	0.872	70.67	1.902	82.33	0.996
0.75	0.000	12.42	0.068	24.08	0.591	35.75	0.775	47.42	1.203	59.08	0.900	70.75	1.875	82.42	1.034
0.83	0.000	12.50	0.074	24.17	0.583	35.83	0.798	47.50	1.184	59.17	0.929	70.83	1.847	82.50	1.074
0.92	0.000	12.58	0.082	24.25	0.574	35.92	0.821	47.58	1.166	59.25	0.959	70.92	1.820	82.58	1.114
1.00	0.000	12.67	0.090	24.33	0.566	36.00	0.844	47.67	1.149	59.33	0.990	71.00	1.793	82.67	1.156
1.08	0.000	12.75	0.100	24.42	0.558	36.08	0.867	47.75	1.131	59.42	1.022	71.08	1.767	82.75	1.197
1.17	0.000	12.83	0.109	24.50	0.550	36.17	0.891	47.83	1.113	59.50	1.053	71.17	1.741	82.83	1.239
1.25	0.000	12.92	0.118	24.58	0.542	36.25	0.914	47.92	1.096	59.58	1.085	71.25	1.715	82.92	1.283
1.33	0.000	13.00	0.127	24.67	0.534	36.33	0.938	48.00	1.079	59.67	1.118	71.33	1.689	83.00	1.326
1.42	0.000	13.08	0.136	24.75	0.526	36.42	0.963	48.08	1.063	59.75	1.151	71.42	1.664	83.08	1.368
1.50	0.000	13.17	0.146	24.83	0.519	36.50	0.988	48.17	1.047	59.83	1.184	71.50	1.639	83.17	1.409
1.58	0.000	13.25	0.156	24.92	0.511	36.58	1.013	48.25	1.031	59.92	1.217	71.58	1.614	83.25	1.452
1.67	0.000	13.33	0.167	25.00	0.503	36.67	1.039	48.33	1.015	60.00	1.250	71.67	1.588	83.33	1.496
1.75	0.000	13.42	0.179	25.08	0.496	36.75	1.064	48.42	0.999	60.08	1.283	71.75	1.562	83.42	1.540
1.83	0.000	13.50	0.191	25.17	0.489	36.83	1.090	48.50	0.984	60.17	1.317	71.83	1.537	83.50	1.583
1.92	0.000	13.58	0.204	25.25	0.481	36.92	1.115	48.58	0.968	60.25	1.350	71.92	1.513	83.58	1.626
2.00	0.000	13.67	0.218	25.33	0.474	37.00	1.141	48.67	0.953	60.33	1.383	72.00	1.488	83.67	1.670
2.08	0.000	13.75	0.231	25.42	0.467	37.08	1.167	48.75	0.938	60.42	1.415	72.08	1.463	83.75	1.713
2.17	0.000	13.83	0.245	25.50	0.460	37.17	1.192	48.83	0.923	60.50	1.447	72.17	1.438	83.83	1.757
2.25	0.000	13.92	0.260	25.58	0.453	37.25	1.216	48.92	0.909	60.58	1.479	72.25	1.413	83.92	1.802
2.33	0.000	14.00	0.275	25.67	0.446	37.33	1.241	49.00	0.893	60.67	1.513	72.33	1.389	84.00	1.847
2.42	0.000	14.08	0.290	25.75	0.439	37.42	1.266	49.08	0.878	60.75	1.544	72.42	1.365	84.08	1.893
2.50	0.000	14.17	0.306	25.83	0.432	37.50	1.290	49.17	0.864	60.83	1.576	72.50	1.341	84.17	1.938
2.58	0.000	14.25	0.321	25.92	0.424	37.58	1.315	49.25	0.848	60.92	1.608	72.58	1.318	84.25	1.984
2.67	0.000	14.33	0.337	26.00	0.416	37.67	1.339	49.33	0.833	61.00	1.640	72.67	1.295	84.33	2.031
2.75	0.000	14.42	0.353	26.08	0.408	37.75	1.363	49.42	0.818	61.08	1.673	72.75	1.273	84.42	2.079
2.83	0.000	14.50	0.369	26.17	0.401	37.83	1.388	49.50	0.803	61.17	1.705	72.83	1.251	84.50	2.126
2.92	0.000	14.58	0.386	26.25	0.394	37.92	1.412	49.58	0.789	61.25	1.737	72.92	1.229	84.58	2.174
3.00	0.000	14.67	0.402	26.33	0.386	38.00	1.435	49.67	0.775	61.33	1.768	73.00	1.207	84.67	2.223
3.08	0.000	14.75	0.418	26.42	0.379	38.08	1.458	49.75	0.760	61.42	1.799	73.08	1.186	84.75	2.272
3.17	0.000	14.83	0.434	26.50	0.371	38.17	1.480	49.83	0.746	61.50	1.831	73.17	1.165	84.83	2.321
3.25	0.000	14.92	0.449	26.58	0.364	38.25	1.503	49.92	0.733	61.58	1.862	73.25	1.145	84.92	2.370
3.33	0.000	15.00	0.465	26.67	0.357	38.33	1.525	50.00	0.720	61.67	1.893	73.33	1.125	85.00	2.418
3.42	0.000	15.08	0.481	26.75	0.350	38.42	1.547	50.08	0.707	61.75	1.923	73.42	1.106	85.08	2.468
3.50	0.000	15.17	0.497	26.83	0.344	38.50	1.567	50.17	0.695	61.83	1.954	73.50	1.086	85.17	2.516
3.58	0.000	15.25	0.513	26.92	0.337	38.58	1.588	50.25	0.683	61.92	1.985	73.58	1.067	85.25	2.565
3.67	0.000	15.33	0.528	27.00	0.331	38.67	1.609	50.33	0.671	62.00	2.016	73.67	1.049	85.33	2.613
3.75	0.000	15.42	0.544	27.08	0.326	38.75	1.630	50.42	0.659	62.08	2.048	73.75	1.031	85.42	2.662
3.83	0.000	15.50	0.560	27.17	0.320	38.83	1.651	50.50	0.648	62.17	2.079	73.83	1.013	85.50	2.710
3.92	0.000	15.58	0.576	27.25	0.314	38.92	1.672	50.58	0.636	62.25	2.110	73.92	0.996	85.58	2.759
4.00	0.000	15.67	0.592	27.33	0.309	39.00	1.692	50.67	0.625	62.33	2.140	74.00	0.978	85.67	2.808
4.08	0.000	15.75	0.608	27.42	0.304	39.08	1.713	50.75	0.613	62.42	2.170	74.08	0.961	85.75	2.856
4.17	0.000	15.83	0.623	27.50	0.299	39.17	1.733	50.83	0.602	62.50	2.200	74.17	0.945	85.83	2.905
4.25	0.000	15.92	0.639	27.58	0.294	39.25	1.753	50.92	0.591	62.58	2.230	74.25	0.928	85.92	2.953
4.33	0.000	16.00	0.654	27.67	0.289	39.33	1.771	51.00	0.580	62.67	2.259	74.33	0.912	86.00	3.001
4.42	0.000	16.08	0.670	27.75	0.284	39.42	1.790	51.08	0.570	62.75	2.288	74.42	0.896	86.08	3.049
4.50	0.000	16.17	0.685	27.83	0.279	39.50	1.807	51.17	0.559	62.83	2.316	74.50	0.878	86.17	3.097
4.58	0.000	16.25	0.700	27.92	0.274	39.58	1.824	51.25	0.548	62.92	2.345	74.58	0.861	86.25	3.144
4.67	0.000	16.33	0.716	28.00	0.270	39.67	1.841	51.33	0.538	63.00	2.373	74.67	0.845	86.33	3.190
4.75	0.000	16.42	0.730	28.08	0.265	39.75	1.857	51.42	0.528	63.08	2.400	74.75	0.829	86.42	3.236
4.83	0.000	16.50	0.744	28.17	0.261	39.83	1.873	51.50	0.518	63.17	2.427	74.83	0.813	86.50	3.281
4.92	0.000	16.58	0.758	28.25	0.256	39.92	1.889	51.58	0.509	63.25	2.453	74.92	0.796	86.58	3.325
5.00	0.000	16.67	0.771	28.33	0.252	40.00	1.904	51.67	0.499	63.33	2.478	75.00	0.780	86.67	3.368
5.08	0.000	16.75	0.785	28.42	0.248	40.08	1.919	51.75	0.490	63.42	2.503	75.08	0.765	86.75	3.411
5.17	0.000	16.83	0.797	28.50	0.243	40.17	1.933	51.83	0.481	63.50	2.528	75.17	0.750	86.83	3.453
5.25	0.000	16.92	0.809	28.58	0.239	40.25	1.948	51.92	0.472	63.58	2.551	75.25	0.736	86.92	3.495
5.33	0.000	17.00	0.821	28.67	0.234	40.33	1.961	52.00	0.462	63.67	2.574	75.33	0.722	87.00	3.536
5.42	0.000	17.08	0.832	28.75	0.230	40.42	1.975	52.08	0.453	63.75	2.596	75.42	0.708	87.08	3.577
5.50	0.000	17.17	0.843	28.83	0.226	40.50	1.987	52.17	0.444	63.83	2.618	75.50	0.695	87.17	3.617
5.58	0.000	17.25	0.854	28.92	0.221	40.58	1.999	52.25	0.435	63.92	2.639	75.58	0.682	87.25	3.656
5.67	0.000	17.33	0.864	29.00	0.217	40.67	2.011	52.33	0.427	64.00	2.660	75.67	0.670	87.33	3.694
5.75	0.000	17.42	0.874	29.08	0.213	40.75	2.022	52.42	0.418	64.08	2.680	75.75	0.657	87.42	3.731
5.83	0.000	17.50	0.883	29.17	0.209	40.83	2.033	52.50	0.409	64.17	2.700	75.83	0.645	87.50	3.770
5.92	0.000	17.58	0.892	29.25	0.205	40.92	2.042	52.58	0.400	64.25	2.719	75.92	0.633	87.58	3.805
6.00	0.000	17.67	0.901	29.33	0.201	41.00	2.053	52.67	0.391	64.33	2.737	76.00	0.621	87.67	3.839
6.08	0.000	17.75	0.910	29.42	0.198	41.08	2.061	52.75	0.383	64.42	2.754	76.08	0.609	87.75	3.873
6.17	0.000	17.83	0.918	29.50	0.194	41.17	2.069	52.83	0.375	64.50	2.771	76.17	0.597	87.83	3.907
6.25	0.000	17.92	0.925	29.58	0.190	41.25	2.077	52.92	0.367	64.58	2.787	76.25	0.585	87.92	3.939
6.33	0.000	18.00	0.933	29.67	0.187	41.33	2.084	53.00	0.359	64.67	2.802	76.33	0.574	88.00	3.970
6.42	0.000	18.08	0.939	29.75	0.183	41.42	2.090	53.08	0.352	64.75	2.816	76.42	0.563	88.08	4.000
6.50	0.000	18.17	0.946	29.83	0.180	41.50	2.096	53.17	0.345	64.83	2.829	76.50	0.552	88.17	4.030
6.58	0.000	18.25	0.952	29.92	0.176	41.58	2.102	53.25	0.338	64.92	2.843	76.58	0.541	88.25	4.058
6.67	0.000	18.33	0.957	30.00	0.173	41.67	2.105	53.33	0.331	65.00	2.854	76.67	0.530	88.33	4.085
6.75	0.000	18.42	0.962	30.08	0.170	41.75	2.108	53.42	0.324	65.08	2.864	76.75	0.520	88.42	4.110
6.83	0.000	18.50	0.967	30.17	0.167	41.83	2.111	53.50	0.318	65.17	2.876	76.83	0.510	88.50	4.134
6.92	0.000	18.58	0.971	30.25	0.164	41.92	2.114	53.58	0.312	65.25	2.885	76.92	0.499	88.58	4.157
7.00	0.000	18.67	0.974	30.33	0.161	42.00	2.116	53.67	0.306	65.33	2.893	77.00	0.489	88.67	4.178
7.08	0.000	18.75	0.977	30.42	0.159	42.08	2.117	53.75	0.300	65.42	2.901	77.08	0.479	88.75	4.198
7.17	0.000	18.83	0.979	30.50	0.156	42.17	2.117	53.83	0.294	65.50	2.909	77.17	0.468	88.83	4.218
7.25	0.000	18.92	0.980	30.58	0.154	42.25	2.117	53.92	0.289	65.58	2.913	77.25	0.459	88.92	4.238
7.33	0.000	19.00	0.981	30.67	0.152	42.33	2.116	54.00	0.283	65.67	2.917	77.33	0.449	89.00	4.253
7.42	0.000	19.08	0.982	30.75	0.150	42.42	2.114	54.08	0.278	65.75	2.922	77.42	0.440	89.08	4.268
7.50	0.000	19.17	0.983	30.83	0.149	42.50	2.111	54.17	0.273	65.83	2.925	77.50	0.431	89.17	4.285
7.58	0.000	19.25	0.983	30.92	0.147	42.58	2.107	54.25	0.268	65.92	2.928	77.58	0.421	89.25	4.297
7.67	0.000	19.33	0.982	31.00	0.146	42.67	2.103	54.33	0.263	66.00	2.929	77.67	0.412	89.33	4.309
7.75	0.000	19.42	0.981	31.08	0.145	42.75	2.098	54.42	0.259	66.08	2.930	77.75	0.403	89.42	4.321
7.83	0.000	19.50	0.980	31.17	0.144	42.83	2.092	54.50	0.255	66.17	2.929	77.83	0.394	89.50	4.331
7.92	0.000	19.58	0.978	31.25	0.143	42.92	2.085	54.58	0.252	66.25	2.928	77.92	0.386	89.58	4.338
8.00	0.000	19.67	0.976	31.33	0.143	43.00	2.078	54.67	0.248	66.33	2.925	78.00	0.377	89.67	4.343
8.08	0.000	19.75	0.974	31.42	0.143	43.08	2.071	54.75	0.246	66.42	2.921	78.08	0.369	89.75	4.349
8.17	0.000	19.83	0.971	31.50	0.144	43.17	2.063	54.83	0.243	66.50	2.916	78.17	0.362	89.83	4.354
8.25	0.000	19.92	0.968	31.58	0.144	43.25	2.054	54.92	0.241	66.58	2.911	78.25	0.355	89.92	4.357
8.33	0.000	20.00	0.964	31.67	0.145	43.33	2.045	55.00	0.238	66.67	2.903	78.33	0.349	90.00	4.359
8.42	0.000	20.08	0.961	31.75	0.147	43.42	2.035	55.08	0.237	66.75	2.895	78.42	0.343	90.08	4.359
8.50	0.000	20.17	0.956	31.83	0.148	43.50	2.024	55.17	0.236	66.83	2.886	78.50	0.337	90.17	4.358
8.58	0.000	20.25	0.952	31.92	0.150	43.58	2.013	55.25	0.235	66.92	2.876	78.58	0.333	90.25	4.355
8.67	0.000	20.33	0.947	32.00	0.153	43.67	2.002	55.33	0.234	67.00	2.867	78.67	0.329	90.33	4.351
8.75	0.000	20.42	0.942	32.08	0.156	43.75	1.990	55.42	0.234	67.08	2.857	78.75	0.325	90.42	4.345
8.83	0.000	20.50	0.937	32.17	0.159	43.83	1.978	55.50	0.235	67.17	2.844	78.83	0.322	90.50	4.338
8.92	0.000	20.58	0.931	32.25	0.163	43.92	1.965	55.58	0.236	67.25	2.832	78.92	0.320	90.58	4.329
9.00	0.000	20.67	0.926	32.33	0.167	44.00	1.951	55.67	0.238	67.33	2.819	79.00	0.318	90.67	4.318
9.08	0.000	20.75	0.920	32.42	0.172	44.08	1.938	55.75	0.240	67.42	2.803	79.08	0.317	90.75	4.305
9.17	0.000	20.83	0.914	32.50	0.177	44.17	1.923	55.83	0.243	67.50	2.789	79.17	0.316	90.83	4.292
9.25	0.000	20.92	0.907	32.58	0.183	44.25	1.907	55.92	0.246	67.58	2.774	79.25	0.316	90.92	4.276
9.33	0.000	21.00	0.900	32.67	0.189	44.33	1.892	56.00	0.250	67.67	2.758	79.33	0.318	91.00	4.262
9.42	0.000	21.08	0.893	32.75	0.195	44.42	1.875	56.08	0.255	67.75	2.741	79.42	0.320	91.08	4.246
9.50	0.000	21.17	0.886	32.83	0.202	44.50	1.859	56.17	0.260	67.83	2.723	79.50	0.322	91.17	4.226
9.58	0.000	21.25	0.879	32.92	0.210	44.58	1.842	56.25	0.266	67.92	2.705	79.58	0.326	91.25	4.207
9.67	0.000	21.33	0.872	33.00	0.218	44.67	1.825	56.33	0.273	68.00	2.686	79.67	0.331	91.33	4.187
9.75	0.000	21.42	0.864	33.08	0.227	44.75	1.807	56.42	0.281	68.08	2.667	79.75	0.337	91.42	4.164
9.83	0.000	21.50	0.856	33.17	0.236	44.83	1.789	56.50	0.289	68.17	2.647	79.83	0.344	91.50	4.142
9.92	0.000	21.58	0.848	33.25	0.246	44.92	1.771	56.58	0.299	68.25	2.627	79.92	0.352	91.58	4.120
10.00	0.000	21.67	0.840	33.33	0.257	45.00	1.753	56.67	0.310	68.33	2.605	80.00	0.360	91.67	4.095
10.08	0.000	21.75	0.833	33.42	0.268	45.08	1.735	56.75	0.322	68.42	2.583	80.08	0.369	91.75	4.069
10.17	0.001	21.83	0.825	33.50	0.280	45.17	1.717	56.83	0.334	68.50	2.561	80.17	0.378	91.83	4.043
10.25	0.001	21.92	0.816	33.58	0.293	45.25	1.699	56.92	0.346	68.58	2.538	80.25	0.387	91.92	4.016
10.33	0.001	22.00	0.808	33.67	0.308	45.33	1.681	57.00	0.358	68.67	2.515	80.33	0.398	92.00	3.987
10.42	0.001	22.08	0.800	33.75	0.322	45.42	1.663	57.08	0.371	68.75	2.491	80.42	0.409	92.08	3.958
10.50	0.002	22.17	0.792	33.83	0.335	45.50	1.645	57.17	0.386	68.83	2.467	80.50	0.421	92.17	3.929
10.58	0.002	22.25	0.784	33.92	0.349	45.58	1.626	57.25	0.400	68.92	2.443	80.58	0.435	92.25	3.898
10.67	0.003	22.33	0.775	34.00	0.364	45.67	1.608	57.33	0.415	69.00	2.418	80.67	0.450	92.33	3.867
10.75	0.003	22.42	0.766	34.08	0.380	45.75	1.588	57.42	0.430	69.08	2.393	80.75	0.466	92.42	3.835
10.83	0.004	22.50	0.758	34.17	0.397	45.83	1.568	57.50	0.446	69.17	2.368	80.83	0.484	92.50	3.803
10.92	0.005	22.58	0.749	34.25	0.412	45.92	1.549	57.58	0.463	69.25	2.343	80.92	0.503	92.58	3.769
11.00	0.006	22.67	0.740	34.33	0.428	46.00	1.529	57.67	0.482	69.33	2.318	81.00	0.523	92.67	3.736
11.08	0.008	22.75	0.731	34.42	0.444	46.08	1.510	57.75	0.501	69.42	2.293	81.08	0.544	92.75	3.701
11.17	0.009	22.83	0.722	34.50	0.461	46.17	1.489	57.83	0.521	69.50	2.268	81.17	0.567	92.83	3.667
11.25	0.011	22.92	0.713	34.58	0.479	46.25	1.469	57.92	0.541	69.58	2.242	81.25	0.591	92.92	3.632
11.33	0.013	23.00	0.704	34.67	0.497	46.33	1.448	58.00	0.563	69.67	2.217	81.33	0.616	93.00	3.597
11.42	0.015	23.08	0.695	34.75	0.516	46.42	1.429	58.08	0.585	69.75	2.191	81.42	0.643	93.08	3.561
11.50	0.017	23.17	0.686	34.83	0.535	46.50	1.409	58.17	0.609	69.83	2.166	81.50	0.670	93.17	3.525
11.58	0.020	23.25	0.678	34.92	0.555	46.58	1.390	58.25	0.633	69.92	2.140	81.58	0.698	93.25	3.488

TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
93.33	3.450	105.00	0.959	116.67	7.182	128.33	0.809	140.00	4.942	151.67	0.507	163.33	3.490	175.00	0.373
93.42	3.412	105.08	1.003	116.75	7.119	128.42	0.819	140.08	4.910	151.75	0.506	163.42	3.473	175.08	0.368
93.50	3.374	105.17	1.050	116.83	7.054	128.50	0.829	140.17	4.871	151.83	0.506	163.50	3.455	175.17	0.364
93.58	3.335	105.25	1.099	116.92	6.988	128.58	0.840	140.25	4.831	151.92	0.507	163.58	3.435	175.25	0.361
93.67	3.297	105.33	1.150	117.00	6.922	128.67	0.853	140.33	4.795	152.00	0.509	163.67	3.414	175.33	0.358
93.75	3.258	105.42	1.204	117.08	6.855	128.75	0.867	140.42	4.758	152.08	0.511	163.75	3.392	175.42	0.356
93.83	3.219	105.50	1.260	117.17	6.786	128.83	0.882	140.50	4.717	152.17	0.515	163.83	3.369	175.50	0.354
93.92	3.180	105.58	1.315	117.25	6.717	128.92	0.899	140.58	4.676	152.25	0.519	163.92	3.346	175.58	0.352
94.00	3.142	105.67	1.370	117.33	6.646	129.00	0.918	140.67	4.636	152.33	0.525	164.00	3.322	175.67	0.351
94.08	3.103	105.75	1.427	117.42	6.575	129.08	0.938	140.75	4.595	152.42	0.532	164.08	3.297	175.75	0.351
94.17	3.065	105.83	1.487	117.50	6.502	129.17	0.959	140.83	4.543	152.50	0.539	164.17	3.271	175.83	0.352
94.25	3.028	105.92	1.549	117.58	6.430	129.25	0.983	140.92	4.492	152.58	0.548	164.25	3.245	175.92	0.353
94.33	2.989	106.00	1.608	117.67	6.357	129.33	1.008	141.00	4.439	152.67	0.557	164.33	3.219	176.00	0.354
94.42	2.951	106.08	1.666	117.75	6.284	129.42	1.034	141.08	4.389	152.75	0.567	164.42	3.192	176.08	0.356
94.50	2.912	106.17	1.726	117.83	6.211	129.50	1.062	141.17	4.337	152.83	0.578	164.50	3.164	176.17	0.359
94.58	2.874	106.25	1.789	117.92	6.138	129.58	1.091	141.25	4.285	152.92	0.589	164.58	3.137	176.25	0.363
94.67	2.836	106.33	1.855	118.00	6.065	129.67	1.122	141.33	4.233	153.00	0.602	164.67	3.108	176.33	0.367
94.75	2.799	106.42	1.921	118.08	5.992	129.75	1.155	141.42	4.182	153.08	0.616	164.75	3.079	176.42	0.372
94.83	2.761	106.50	1.989	118.17	5.921	129.83	1.188	141.50	4.132	153.17	0.631	164.83	3.051	176.50	0.378
94.92	2.722	106.58	2.058	118.25	5.854	129.92	1.223	141.58	4.082	153.25	0.647	164.92	3.021	176.58	0.384
95.00	2.684	106.67	2.130	118.33	5.797	130.00	1.259	141.67	4.032	153.33	0.664	165.00	2.991	176.67	0.391
95.08	2.646	106.75	2.204	118.42	5.737	130.08	1.296	141.75	3.982	153.42	0.683	165.08	2.961	176.75	0.398
95.17	2.607	106.83	2.279	118.50	5.675	130.17	1.334	141.83	3.933	153.50	0.703	165.17	2.931	176.83	0.405
95.25	2.569	106.92	2.354	118.58	5.610	130.25	1.370	141.92	3.884	153.58	0.724	165.25	2.901	176.92	0.413
95.33	2.531	107.00	2.432	118.67	5.545	130.33	1.407	142.00	3.835	153.67	0.746	165.33	2.870	177.00	0.421
95.42	2.493	107.08	2.511	118.75	5.478	130.42	1.446	142.08	3.786	153.75	0.767	165.42	2.840	177.08	0.430
95.50	2.456	107.17	2.592	118.83	5.411	130.50	1.487	142.17	3.737	153.83	0.790	165.50	2.809	177.17	0.439
95.58	2.418	107.25	2.674	118.92	5.343	130.58	1.527	142.25	3.689	153.92	0.813	165.58	2.778	177.25	0.450
95.67	2.382	107.33	2.757	119.00	5.274	130.67	1.567	142.33	3.641	154.00	0.838	165.67	2.747	177.33	0.461
95.75	2.345	107.42	2.842	119.08	5.204	130.75	1.609	142.42	3.593	154.08	0.862	165.75	2.715	177.42	0.473
95.83	2.309	107.50	2.928	119.17	5.135	130.83	1.652	142.50	3.544	154.17	0.887	165.83	2.683	177.50	0.487
95.92	2.273	107.58	3.014	119.25	5.069	130.92	1.695	142.58	3.496	154.25	0.913	165.92	2.650	177.58	0.501
96.00	2.238	107.67	3.102	119.33	5.002	131.00	1.740	142.67	3.448	154.33	0.941	166.00	2.618	177.67	0.515
96.08	2.203	107.75	3.192	119.42	4.936	131.08	1.785	142.75	3.400	154.42	0.970	166.08	2.585	177.75	0.530
96.17	2.168	107.83	3.283	119.50	4.868	131.17	1.831	142.83	3.352	154.50	1.000	166.17	2.553	177.83	0.546
96.25	2.134	107.92	3.373	119.58	4.800	131.25	1.878	142.92	3.305	154.58	1.030	166.25	2.520	177.92	0.563
96.33	2.100	108.00	3.465	119.67	4.731	131.33	1.926	143.00	3.258	154.67	1.062	166.33	2.487	178.00	0.580
96.42	2.066	108.08	3.557	119.75	4.663	131.42	1.974	143.08	3.212	154.75	1.094	166.42	2.453	178.08	0.598
96.50	2.031	108.17	3.650	119.83	4.594	131.50	2.023	143.17	3.166	154.83	1.128	166.50	2.420	178.17	0.617
96.58	1.997	108.25	3.744	119.92	4.525	131.58	2.073	143.25	3.120	154.92	1.162	166.58	2.388	178.25	0.636
96.67	1.963	108.33	3.838	120.00	4.456	131.67	2.124	143.33	3.075	155.00	1.196	166.67	2.355	178.33	0.656
96.75	1.928	108.42	3.932	120.08	4.383	131.75	2.176	143.42	3.030	155.08	1.230	166.75	2.323	178.42	0.677
96.83	1.893	108.50	4.027	120.17	4.302	131.83	2.229	143.50	2.985	155.17	1.265	166.83	2.291	178.50	0.699
96.92	1.860	108.58	4.119	120.25	4.219	131.92	2.283	143.58	2.940	155.25	1.301	166.92	2.259	178.58	0.721
97.00	1.827	108.67	4.201	120.33	4.140	132.00	2.338	143.67	2.896	155.33	1.337	167.00	2.227	178.67	0.744
97.08	1.795	108.75	4.277	120.42	4.062	132.08	2.392	143.75	2.852	155.42	1.372	167.08	2.196	178.75	0.766
97.17	1.763	108.83	4.357	120.50	3.987	132.17	2.447	143.83	2.809	155.50	1.406	167.17	2.165	178.83	0.789
97.25	1.732	108.92	4.438	120.58	3.913	132.25	2.503	143.92	2.765	155.58	1.442	167.25	2.134	178.92	0.813
97.33	1.701	109.00	4.521	120.67	3.840	132.33	2.558	144.00	2.722	155.67	1.478	167.33	2.103	179.00	0.837
97.42	1.671	109.08	4.605	120.75	3.769	132.42	2.614	144.08	2.679	155.75	1.514	167.42	2.072	179.08	0.860
97.50	1.641	109.17	4.689	120.83	3.699	132.50	2.670	144.17	2.636	155.83	1.550	167.50	2.041	179.17	0.884
97.58	1.612	109.25	4.780	120.92	3.630	132.58	2.727	144.25	2.594	155.92	1.586	167.58	2.010	179.25	0.909
97.67	1.581	109.33	4.880	121.00	3.563	132.67	2.784	144.33	2.552	156.00	1.622	167.67	1.978	179.33	0.934
97.75	1.551	109.42	4.967	121.08	3.497	132.75	2.842	144.42	2.511	156.08	1.660	167.75	1.946	179.42	0.960
97.83	1.522	109.50	5.048	121.17	3.434	132.83	2.900	144.50	2.469	156.17	1.696	167.83	1.914	179.50	0.987
97.92	1.493	109.58	5.132	121.25	3.372	132.92	2.958	144.58	2.428	156.25	1.733	167.92	1.883	179.58	1.015
98.00	1.465	109.67	5.215	121.33	3.311	133.00	3.017	144.67	2.388	156.33	1.770	168.00	1.852	179.67	1.042
98.08	1.436	109.75	5.299	121.42	3.252	133.08	3.077	144.75	2.348	156.42	1.808	168.08	1.821	179.75	1.070
98.17	1.406	109.83	5.382	121.50	3.193	133.17	3.137	144.83	2.309	156.50	1.846	168.17	1.791	179.83	1.098
98.25	1.377	109.92	5.466	121.58	3.135	133.25	3.195	144.92	2.270	156.58	1.884	168.25	1.762	179.92	1.127
98.33	1.349	110.00	5.549	121.67	3.079	133.33	3.253	145.00	2.232	156.67	1.921	168.33	1.732	180.00	1.156
98.42	1.322	110.08	5.633	121.75	3.023	133.42	3.311	145.08	2.194	156.75	1.959	168.42	1.704	180.08	1.185
98.50	1.295	110.17	5.722	121.83	2.967	133.50	3.369	145.17	2.156	156.83	1.998	168.50	1.675	180.17	1.214
98.58	1.270	110.25	5.822	121.92	2.911	133.58	3.426	145.25	2.119	156.92	2.037	168.58	1.648	180.25	1.242
98.67	1.245	110.33	5.924	122.00	2.857	133.67	3.483	145.33	2.081	157.00	2.076	168.67	1.620	180.33	1.271
98.75	1.221	110.42	6.023	122.08	2.803	133.75	3.540	145.42	2.044	157.08	2.116	168.75	1.592	180.42	1.300
98.83	1.197	110.50	6.119	122.17	2.750	133.83	3.597	145.50	2.008	157.17	2.155	168.83	1.563	180.50	1.329
98.92	1.174	110.58	6.214	122.25	2.699	133.92	3.654	145.58	1.971	157.25	2.194	168.92	1.535	180.58	1.359
99.00	1.151	110.67	6.306	122.33	2.650	134.00	3.710	145.67	1.933	157.33	2.234	169.00	1.508	180.67	1.387
99.08	1.129	110.75	6.396	122.42	2.601	134.08	3.766	145.75	1.897	157.42	2.274	169.08	1.481	180.75	1.415
99.17	1.108	110.83	6.485	122.50	2.552	134.17	3.822	145.83	1.861	157.50	2.313	169.17	1.455	180.83	1.443
99.25	1.086	110.92	6.571	122.58	2.505	134.25	3.878	145.92	1.826	157.58	2.353	169.25	1.427	180.92	1.471
99.33	1.065	111.00	6.657	122.67	2.458	134.33	3.933	146.00	1.792	157.67	2.392	169.33	1.399	181.00	1.499
99.42	1.045	111.08	6.740	122.75	2.411	134.42	3.988	146.08	1.759	157.75	2.431	169.42	1.372	181.08	1.527
99.50	1.025	111.17	6.821	122.83	2.365	134.50	4.041	146.17	1.726	157.83	2.470	169.50	1.346	181.17	1.554
99.58	1.005	111.25	6.901	122.92	2.320	134.58	4.093	146.25	1.693	157.92	2.508	169.58	1.321	181.25	1.581
99.67	0.986	111.33	6.978	123.00	2.275	134.67	4.145	146.33	1.661	158.00	2.546	169.67	1.296	181.33	1.608
99.75	0.968	111.42	7.053	123.08	2.230	134.75	4.195	146.42	1.630	158.08	2.583	169.75	1.271	181.42	1.636
99.83	0.950	111.50	7.127	123.17	2.186	134.83	4.244	146.50	1.599	158.17	2.621	169.83	1.248	181.50	1.664
99.92	0.931	111.58	7.198	123.25	2.142	134.92	4.293	146.58	1.567	158.25	2.658	169.92	1.225	181.58	1.692
100.00	0.912	111.67	7.266	123.33	2.100	135.00	4.342	146.67	1.535	158.33	2.695	170.00	1.202	181.67	1.719
100.08	0.894	111.75	7.335	123.42	2.058	135.08	4.389	146.75	1.504	158.42	2.731	170.08	1.179	181.75	1.746
100.17	0.876	111.83	7.399	123.50	2.016	135.17	4.433	146.83	1.474	158.50	2.767	170.17	1.157	181.83	1.772
100.25	0.858	111.92	7.461	123.58	1.976	135.25	4.470	146.92	1.443	158.58	2.803	170.25	1.136	181.92	1.799
100.33	0.840	112.00	7.522	123.67	1.936	135.33	4.508	147.00	1.414	158.67	2.839	170.33	1.115	182.00	1.825
100.42	0.822	112.08	7.581	123.75	1.896	135.42	4.546	147.08	1.383	158.75	2.874	170.42	1.095	182.08	1.851
100.50	0.805	112.17	7.639	123.83	1.856	135.50	4.584	147.17	1.353	158.83	2.909	170.50	1.074	182.17	1.877
100.58	0.788	112.25	7.694	123.92	1.818	135.58	4.621	147.25	1.324	158.92	2.943	170.58	1.054	182.25	1.902
100.67	0.772	112.33	7.748	124.00	1.781	135.67	4.658	147.33	1.296	159.00	2.976	170.67	1.035	182.33	1.927
100.75	0.756	112.42	7.799	124.08	1.744	135.75	4.695	147.42	1.269	159.08	3.010	170.75	1.016	182.42	1.952
100.83	0.741	112.50	7.848	124.17	1.708	135.83	4.731	147.50	1.243	159.17	3.043	170.83	0.998	182.50	1.977
100.92	0.726	112.58	7.894	124.25	1.673	135.92	4.767	147.58	1.218	159.25	3.076	170.92	0.980	182.58	2.002
101.00	0.711	112.67	7.938	124.33	1.638	136.00	4.801	147.67	1.194	159.33	3.107	171.00	0.962	182.67	2.027
101.08	0.697	112.75	7.979	124.42	1.604	136.08	4.827	147.75	1.170	159.42	3.138	171.08	0.944	182.75	2.051
101.17	0.684	112.83	8.019	124.50	1.569	136.17	4.853	147.83	1.146	159.50	3.169	171.17	0.927	182.83	2.075
101.25	0.670	112.92	8.055	124.58	1.533	136.25	4.891	147.92	1.123	159.58	3.198	171.25	0.909	182.92	2.099
101.33	0.657	113.00	8.091	124.67	1.498	136.33	4.911	148.00	1.101	159.67	3.225	171.33	0.891	183.00	2.123
101.42	0.644	113.08	8.123	124.75	1.465	136.42	4.931	148.08	1.079	159.75	3.253	171.42	0.873	183.08	2.146
101.50	0.632	113.17	8.156	124.83	1.432	136.50	4.967	148.17	1.058	159.83	3.279	171.50	0.856	183.17	2.169
101.58	0.619	113.25	8.182	124.92	1.400	136.58	4.986	148.25	1.037	159.92	3.304	171.58	0.839	183.25	2.192
101.67	0.606	113.33	8.206	125.00	1.368	136.67	5.006	148.33	1.016	160.00	3.329	171.67	0.822	183.33	2.214
101.75	0.594	113.42	8.230	125.08	1.336	136.75	5.039	148.42	0.996	160.08	3.353	171.75	0.805	183.42	2.235
101.83	0.582	113.50	8.251	125.17	1.305	136.83	5.055	148.50	0.977	160.17	3.376	171.83	0.788	183.50	2.255
101.92	0.570	113.58	8.266	125.25	1.275	136.92	5.071	148.58	0.957	160.25	3.398	171.92	0.772	183.58	2.276
102.00	0.558	113.67	8.277	125.33	1.247	137.00	5.101	148.67	0.937	160.33	3.419	172.00	0.757	183.67	2.296
102.08	0.547	113.75	8.291	125.42	1.219	137.08	5.116	148.75	0.918	160.42	3.440	172.08	0.742	183.75	2.315
102.17	0.535	113.83	8.301	125.50	1.193	137.17	5.130	148.83	0.899	160.50	3.459	172.17	0.727	183.83	2.333
102.25	0.525	113.92	8.308	125.58	1.167	137.25	5.156	148.92	0.881	160.58	3.478	172.25	0.713	183.92	2.352
102.33	0.516	114.00	8.314	125.67	1.142	137.33	5.168	149.00	0.862	160.67	3.495	172.33	0.699	184.00	2.369
102.42	0.507	114.08	8.316	125.75	1.117	137.42	5.178	149.08	0.844	160.75	3.512	172.42	0.686	184.08	2.387
102.50	0.500	114.17	8.313	125.83	1.093	137.50	5.199	149.17	0.825	160.83	3.527	172.50	0.673	184.17	2.403
102.58	0.494	114.25	8.306	125.92	1.070	137.58	5.218	149.25	0.808	160.92	3.543	172.58	0.660	184.25	2.419
102.67	0.489	114.33	8.301	126.00	1.047	137.67	5.219	149.33	0.791	161.00	3.556	172.67	0.647	184.33	2.435
102.75	0.485	114.42	8.291	126.08	1.025	137.75	5.220	149.42	0.774	161.08	3.568	172.75	0.635	184.42	2.449
102.83	0.483	114.50	8.279	126.17	1.003	137.83	5.235	149.50	0.757	161.17	3.581	172.83	0.623	184.50	2.463
102.92	0.481	114.58	8.264	126.25	0.981	137.92	5.247	149.58	0.742	161.25	3.591	172.92	0.610	184.58	2.476
103.00	0.479	114.67	8.245	126.33	0.961	138.00	5.257	149.67	0.726	161.33	3.601	173.00	0.598	184.67	2.488
103.08	0.480	114.75	8.224	126.42	0.942	138.08	5.254	149.75	0.712	161.42	3.610	173.08	0.586	184.75	2.499
103.17	0.481	114.83	8.200	126.50	0.924	138.17	5.250	149.83	0.697	161.50	3.618	173.17	0.574	184.83	2.510
103.25	0.484	114.92	8.177	126.58	0.908	138.25	5.256	149.92	0.683	161.58	3.623	173.25	0.563	184.92	2.522
103.33	0.488	115.00	8.151	126.67	0.892	138.33	5.260	150.00	0.669	161.67	3.627	173.33	0.551	185.00	2.530
103.42	0.494	115.08	8.119	126.75	0.877	138.42	5.261	150.08	0.656	161.75	3.632	173.42	0.540	185.08	2.539
103.50	0.501	115.17	8.085	126.83	0.863	138.50	5.259	150.17	0.643	161.83	3.635	173.50	0.529	185.17	2.548
103.58	0.511	115.25	8.052	126.92	0.850	138.58	5.255	150.25	0.631	161.92	3.637	173.58	0.518	185.25	2.555
103.67	0.523	115.33	8.017	127.00	0.837	138.67	5.248	150.33	0.619	162.00	3.638	173.67	0.507	185.33	2.561
103.75	0.536	115.42	7.976	127.08	0.826	138.75	5.239	150.42	0.607	162.08	3.638	173.75	0.496	185.42	2.567
103.83	0.551	115.50	7.936	127.17	0.815	138.83	5.229	150.50	0.596	162.17	3.636	173.83	0.485	185.50	2.573
103.92	0.568	115.58	7.894	127.25	0.807	138.92	5.216	150.58	0.585	162.25	3.634	173.92	0.475	185.58	2.578
104.00	0.586	115.67	7.847	127.33	0.799	139.00	5.202	150.67	0.575	162.33	3.630	174.00	0.464	185.67	2.581
104.08	0.606	115.75	7.802	127.42	0.793	139.08	5.186	150.75	0.566	162.42	3.624	174.08	0.455	185.75	2.582
104.17	0.628	115.83	7.754	127.50	0.788	139.17	5.168	150.83	0.557	162.50	3.618	174.17	0.445	185.83	2.585
104.25	0.652	115.92	7.703	127.58	0.785	139.25	5.149	150.92	0.549	162.58	3.610	174.25	0.436	185.92	2.586
104.33	0.677	116.00	7.651	127.67	0.782	139.33	5.128	151.00	0.541	162.67	3.600	174.33	0.427	186.00	2.587
104.42	0.705	116.08	7.597	127.75	0.781	139.42	5.119	151.08	0.534	162.75	3.589	174.42	0.418	186.08	2.587
104.50	0.735	116.17	7.541	127.83	0.781	139.50	5.106	151.17	0.528	162.83	3.578	174.50	0.411	186.17	2.586
104.58	0.768	116.25	7.484	127.92	0.783	139.58	5.078	151.25	0.522	162.92	3.567	174.58	0.403	186.25	2.584
104.67	0.802	116.33	7.426	128.00	0.785	139.67	5.048	151.33	0.517	163.00	3.554	174.67	0.397	186.33	2.581
104.75	0.837	116.42	7.367	128.08	0.789	139.75	5.030	151.42	0.513	163.08	3.539	174.75	0.390	186.42	2.577
104.83	0.876	116.50	7.306	128.17	0.794	139.83	5.010	151.50	0.510	163.17	3.524	174.83	0.384	186.50	2.573
104.92	0.916	116.58	7.245	128.25	0.801	139.92	4.970	151.58	0.508	163.25	3.508	174.92	0.378	186.58	2.567

TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
186.67	2.560	198.33	0.306	210.00	1.953	221.67	0.278	233.33	2.323	245.00	0.388	256.67	0.012	268.33	0.000
186.75	2.552	198.42	0.301	210.08	1.952	221.75	0.273	233.42	2.329	245.08	0.380	256.75	0.011	268.42	0.000
186.83	2.545	198.50	0.296	210.17	1.952	221.83	0.268	233.50	2.335	245.17	0.372	256.83	0.011	268.50	0.000
186.92	2.536	198.58	0.291	210.25	1.950	221.92	0.263	233.58	2.339	245.25	0.364	256.92	0.011	268.58	0.000
187.00	2.526	198.67	0.287	210.33	1.948	222.00	0.258	233.67	2.341	245.33	0.357	257.00	0.010	268.67	0.000
187.08	2.515	198.75	0.282	210.42	1.945	222.08	0.253	233.75	2.343	245.42	0.349	257.08	0.010	268.75	0.000
187.17	2.504	198.83	0.278	210.50	1.941	222.17	0.248	233.83	2.345	245.50	0.342	257.17	0.010	268.83	0.000
187.25	2.493	198.92	0.275	210.58	1.937	222.25	0.244	233.92	2.346	245.58	0.335	257.25	0.009	268.92	0.000
187.33	2.479	199.00	0.271	210.67	1.932	222.33	0.240	234.00	2.347	245.67	0.328	257.33	0.009	269.00	0.000
187.42	2.467	199.08	0.268	210.75	1.928	222.42	0.235	234.08	2.347	245.75	0.322	257.42	0.009	269.08	0.000
187.50	2.454	199.17	0.265	210.83	1.922	222.50	0.231	234.17	2.346	245.83	0.315	257.50	0.008	269.17	0.000
187.58	2.439	199.25	0.263	210.92	1.914	222.58	0.228	234.25	2.344	245.92	0.309	257.58	0.008	269.25	0.000
187.67	2.424	199.33	0.260	211.00	1.907	222.67	0.224	234.33	2.341	246.00	0.303	257.67	0.008	269.33	0.000
187.75	2.409	199.42	0.259	211.08	1.899	222.75	0.221	234.42	2.338	246.08	0.297	257.75	0.008	269.42	0.000
187.83	2.393	199.50	0.257	211.17	1.891	222.83	0.219	234.50	2.333	246.17	0.291	257.83	0.007	269.50	0.000
187.92	2.376	199.58	0.256	211.25	1.881	222.92	0.216	234.58	2.328	246.25	0.286	257.92	0.007	269.58	0.000
188.00	2.359	199.67	0.255	211.33	1.871	223.00	0.214	234.67	2.321	246.33	0.280	258.00	0.007	269.67	0.000
188.08	2.341	199.75	0.255	211.42	1.860	223.08	0.213	234.75	2.314	246.42	0.275	258.08	0.007	269.75	0.000
188.17	2.323	199.83	0.255	211.50	1.849	223.17	0.211	234.83	2.308	246.50	0.270	258.17	0.007	269.83	0.000
188.25	2.305	199.92	0.256	211.58	1.838	223.25	0.210	234.92	2.300	246.58	0.265	258.25	0.006	269.92	0.000
188.33	2.286	200.00	0.257	211.67	1.826	223.33	0.209	235.00	2.291	246.67	0.260	258.33	0.006	270.00	0.000
188.42	2.267	200.08	0.258	211.75	1.813	223.42	0.209	235.08	2.281	246.75	0.255	258.42	0.006	270.08	0.000
188.50	2.248	200.17	0.259	211.83	1.800	223.50	0.209	235.17	2.272	246.83	0.250	258.50	0.006	270.17	0.000
188.58	2.228	200.25	0.261	211.92	1.787	223.58	0.210	235.25	2.262	246.92	0.245	258.58	0.006	270.25	0.000
188.67	2.208	200.33	0.264	212.00	1.773	223.67	0.211	235.33	2.249	247.00	0.240	258.67	0.005	270.33	0.000
188.75	2.187	200.42	0.268	212.08	1.760	223.75	0.212	235.42	2.238	247.08	0.235	258.75	0.005	270.42	0.000
188.83	2.166	200.50	0.271	212.17	1.746	223.83	0.214	235.50	2.226	247.17	0.230	258.83	0.005	270.50	0.000
188.92	2.146	200.58	0.276	212.25	1.732	223.92	0.216	235.58	2.213	247.25	0.226	258.92	0.005	270.58	0.000
189.00	2.124	200.67	0.281	212.33	1.717	224.00	0.219	235.67	2.199	247.33	0.221	259.00	0.005	270.67	0.000
189.08	2.103	200.75	0.286	212.42	1.702	224.08	0.222	235.75	2.186	247.42	0.216	259.08	0.005	270.75	0.000
189.17	2.081	200.83	0.292	212.50	1.687	224.17	0.226	235.83	2.171	247.50	0.212	259.17	0.004	270.83	0.000
189.25	2.059	200.92	0.299	212.58	1.672	224.25	0.230	235.92	2.156	247.58	0.208	259.25	0.004	270.92	0.000
189.33	2.037	201.00	0.306	212.67	1.657	224.33	0.235	236.00	2.141	247.67	0.203	259.33	0.004	271.00	0.000
189.42	2.015	201.08	0.314	212.75	1.641	224.42	0.240	236.08	2.125	247.75	0.199	259.42	0.004	271.08	0.000
189.50	1.993	201.17	0.323	212.83	1.626	224.50	0.246	236.17	2.109	247.83	0.195	259.50	0.004	271.17	0.000
189.58	1.970	201.25	0.332	212.92	1.609	224.58	0.253	236.25	2.092	247.92	0.191	259.58	0.004	271.25	0.000
189.67	1.947	201.33	0.342	213.00	1.593	224.67	0.261	236.33	2.075	248.00	0.187	259.67	0.004	271.33	0.000
189.75	1.922	201.42	0.352	213.08	1.575	224.75	0.269	236.42	2.058	248.08	0.183	259.75	0.004	271.42	0.000
189.83	1.898	201.50	0.362	213.17	1.558	224.83	0.278	236.50	2.040	248.17	0.179	259.83	0.003	271.50	0.000
189.92	1.874	201.58	0.372	213.25	1.541	224.92	0.288	236.58	2.022	248.25	0.175	259.92	0.003	271.58	0.000
190.00	1.850	201.67	0.383	213.33	1.523	225.00	0.299	236.67	2.004	248.33	0.172	260.00	0.003	271.67	0.000
190.08	1.826	201.75	0.394	213.42	1.505	225.08	0.310	236.75	1.985	248.42	0.168	260.08	0.003	271.75	0.000
190.17	1.801	201.83	0.406	213.50	1.487	225.17	0.323	236.83	1.966	248.50	0.165	260.17	0.003	271.83	0.000
190.25	1.777	201.92	0.418	213.58	1.468	225.25	0.335	236.92	1.947	248.58	0.161	260.25	0.003	271.92	0.000
190.33	1.753	202.00	0.429	213.67	1.450	225.33	0.347	237.00	1.926	248.67	0.158	260.33	0.003	272.00	0.000
190.42	1.730	202.08	0.442	213.75	1.432	225.42	0.360	237.08	1.905	248.75	0.155	260.42	0.003	272.08	0.000
190.50	1.706	202.17	0.455	213.83	1.414	225.50	0.374	237.17	1.884	248.83	0.152	260.50	0.003	272.17	0.000
190.58	1.683	202.25	0.469	213.92	1.396	225.58	0.389	237.25	1.863	248.92	0.149	260.58	0.003	272.25	0.000
190.67	1.660	202.33	0.483	214.00	1.379	225.67	0.404	237.33	1.842	249.00	0.146	260.67	0.002	272.33	0.000
190.75	1.637	202.42	0.499	214.08	1.362	225.75	0.418	237.42	1.821	249.08	0.143	260.75	0.002	272.42	0.000
190.83	1.614	202.50	0.515	214.17	1.344	225.83	0.433	237.50	1.800	249.17	0.140	260.83	0.002	272.50	0.000
190.92	1.590	202.58	0.531	214.25	1.327	225.92	0.449	237.58	1.778	249.25	0.137	260.92	0.002	272.58	0.000
191.00	1.566	202.67	0.547	214.33	1.310	226.00	0.465	237.67	1.757	249.33	0.134	261.00	0.002	272.67	0.000
191.08	1.543	202.75	0.564	214.42	1.292	226.08	0.483	237.75	1.736	249.42	0.131	261.08	0.002	272.75	0.000
191.17	1.520	202.83	0.582	214.50	1.275	226.17	0.501	237.83	1.714	249.50	0.129	261.17	0.002	272.83	0.000
191.25	1.497	202.92	0.600	214.58	1.258	226.25	0.519	237.92	1.693	249.58	0.126	261.25	0.002	272.92	0.000
191.33	1.474	203.00	0.618	214.67	1.240	226.33	0.538	238.00	1.672	249.67	0.123	261.33	0.002	273.00	0.000
191.42	1.450	203.08	0.637	214.75	1.223	226.42	0.558	238.08	1.651	249.75	0.120	261.42	0.002	273.08	0.000
191.50	1.426	203.17	0.656	214.83	1.205	226.50	0.579	238.17	1.631	249.83	0.117	261.50	0.002	273.17	0.000
191.58	1.404	203.25	0.676	214.92	1.187	226.58	0.601	238.25	1.609	249.92	0.114	261.58	0.002	273.25	0.000
191.67	1.382	203.33	0.696	215.00	1.170	226.67	0.622	238.33	1.587	250.00	0.111	261.67	0.002	273.33	0.000
191.75	1.360	203.42	0.716	215.08	1.153	226.75	0.645	238.42	1.565	250.08	0.109	261.75	0.002	273.42	0.000
191.83	1.338	203.50	0.737	215.17	1.136	226.83	0.668	238.50	1.543	250.17	0.106	261.83	0.002	273.50	0.000
191.92	1.316	203.58	0.757	215.25	1.119	226.92	0.691	238.58	1.522	250.25	0.104	261.92	0.002	273.58	0.000
192.00	1.295	203.67	0.778	215.33	1.103	227.00	0.714	238.67	1.500	250.33	0.101	262.00	0.001	273.67	0.000
192.08	1.274	203.75	0.799	215.42	1.086	227.08	0.738	238.75	1.478	250.42	0.099	262.08	0.001	273.75	0.000
192.17	1.253	203.83	0.819	215.50	1.070	227.17	0.762	238.83	1.456	250.50	0.096	262.17	0.001	273.83	0.000
192.25	1.232	203.92	0.840	215.58	1.055	227.25	0.786	238.92	1.434	250.58	0.093	262.25	0.001	273.92	0.000
192.33	1.211	204.00	0.861	215.67	1.039	227.33	0.810	239.00	1.412	250.67	0.091	262.33	0.001	274.00	0.000
192.42	1.191	204.08	0.882	215.75	1.024	227.42	0.834	239.08	1.392	250.75	0.089	262.42	0.001	274.08	0.000
192.50	1.171	204.17	0.903	215.83	1.009	227.50	0.859	239.17	1.371	250.83	0.086	262.50	0.001	274.17	0.000
192.58	1.152	204.25	0.924	215.92	0.994	227.58	0.884	239.25	1.351	250.92	0.084	262.58	0.001	274.25	0.000
192.67	1.132	204.33	0.946	216.00	0.979	227.67	0.909	239.33	1.330	251.00	0.082	262.67	0.001	274.33	0.000
192.75	1.113	204.42	0.968	216.08	0.964	227.75	0.934	239.42	1.310	251.08	0.080	262.75	0.001	274.42	0.000
192.83	1.095	204.50	0.991	216.17	0.950	227.83	0.961	239.50	1.290	251.17	0.078	262.83	0.001	274.50	0.000
192.92	1.076	204.58	1.013	216.25	0.935	227.92	0.987	239.58	1.270	251.25	0.076	262.92	0.001	274.58	0.000
193.00	1.058	204.67	1.037	216.33	0.921	228.00	1.015	239.67	1.250	251.33	0.074	263.00	0.001	274.67	0.000
193.08	1.041	204.75	1.060	216.42	0.906	228.08	1.042	239.75	1.231	251.42	0.073	263.08	0.001	274.75	0.000
193.17	1.024	204.83	1.083	216.50	0.892	228.17	1.070	239.83	1.211	251.50	0.071	263.17	0.001	274.83	0.000
193.25	1.007	204.92	1.105	216.58	0.877	228.25	1.097	239.92	1.191	251.58	0.069	263.25	0.001	274.92	0.000
193.33	0.990	205.00	1.128	216.67	0.863	228.33	1.125	240.00	1.172	251.67	0.067	263.33	0.001	275.00	0.000
193.42	0.973	205.08	1.151	216.75	0.849	228.42	1.153	240.08	1.153	251.75	0.066	263.42	0.001	275.08	0.000
193.50	0.957	205.17	1.174	216.83	0.834	228.50	1.181	240.17	1.135	251.83	0.064	263.50	0.001	275.17	0.000
193.58	0.941	205.25	1.197	216.92	0.819	228.58	1.208	240.25	1.116	251.92	0.063	263.58	0.001	275.25	0.000
193.67	0.925	205.33	1.218	217.00	0.805	228.67	1.235	240.33	1.098	252.00	0.061	263.67	0.001	275.33	0.000
193.75	0.910	205.42	1.240	217.08	0.791	228.75	1.263	240.42	1.081	252.08	0.060	263.75	0.001	275.42	0.000
193.83	0.894	205.50	1.262	217.17	0.777	228.83	1.290	240.50	1.063	252.17	0.058	263.83	0.001	275.50	0.000
193.92	0.877	205.58	1.284	217.25	0.763	228.92	1.317	240.58	1.046	252.25	0.057	263.92	0.001	275.58	0.000
194.00	0.861	205.67	1.305	217.33	0.749	229.00	1.344	240.67	1.029	252.33	0.056	264.00	0.001	275.67	0.000
194.08	0.845	205.75	1.327	217.42	0.736	229.08	1.372	240.75	1.013	252.42	0.054	264.08	0.001	275.75	0.000
194.17	0.829	205.83	1.348	217.50	0.723	229.17	1.399	240.83	0.997	252.50	0.053	264.17	0.001	275.83	0.000
194.25	0.813	205.92	1.369	217.58	0.711	229.25	1.425	240.92	0.981	252.58	0.052	264.25	0.001	275.92	0.000
194.33	0.798	206.00	1.390	217.67	0.698	229.33	1.451	241.00	0.965	252.67	0.050	264.33	0.001	276.00	0.000
194.42	0.782	206.08	1.412	217.75	0.686	229.42	1.476	241.08	0.949	252.75	0.049	264.42	0.001	276.08	0.000
194.50	0.767	206.17	1.432	217.83	0.675	229.50	1.503	241.17	0.934	252.83	0.048	264.50	0.001	276.17	0.000
194.58	0.752	206.25	1.452	217.92	0.663	229.58	1.528	241.25	0.919	252.92	0.047	264.58	0.001	276.25	0.000
194.67	0.738	206.33	1.471	218.00	0.652	229.67	1.552	241.33	0.903	253.00	0.045	264.67	0.001	276.33	0.000
194.75	0.725	206.42	1.491	218.08	0.641	229.75	1.577	241.42	0.887	253.08	0.044	264.75	0.001	276.42	0.000
194.83	0.711	206.50	1.510	218.17	0.629	229.83	1.601	241.50	0.872	253.17	0.043	264.83	0.001	276.50	0.000
194.92	0.698	206.58	1.528	218.25	0.618	229.92	1.626	241.58	0.856	253.25	0.042	264.92	0.001	276.58	0.000
195.00	0.686	206.67	1.545	218.33	0.607	230.00	1.651	241.67	0.840	253.33	0.040	265.00	0.001	276.67	0.000
195.08	0.673	206.75	1.563	218.42	0.596	230.08	1.675	241.75	0.825	253.42	0.039	265.08	0.000	276.75	0.000
195.17	0.661	206.83	1.580	218.50	0.585	230.17	1.700	241.83	0.810	253.50	0.038	265.17	0.000	276.83	0.000
195.25	0.649	206.92	1.598	218.58	0.575	230.25	1.725	241.92	0.795	253.58	0.037	265.25	0.000	276.92	0.000
195.33	0.638	207.00	1.615	218.67	0.564	230.33	1.749	242.00	0.780	253.67	0.035	265.33	0.000	277.00	0.000
195.42	0.626	207.08	1.632	218.75	0.554	230.42	1.771	242.08	0.765	253.75	0.034	265.42	0.000	277.08	0.000
195.50	0.614	207.17	1.649	218.83	0.543	230.50	1.794	242.17	0.751	253.83	0.033	265.50	0.000	277.17	0.000
195.58	0.602	207.25	1.666	218.92	0.533	230.58	1.816	242.25	0.737	253.92	0.032	265.58	0.000	277.25	0.000
195.67	0.590	207.33	1.682	219.00	0.524	230.67	1.838	242.33	0.723	254.00	0.031	265.67	0.000	277.33	0.000
195.75	0.579	207.42	1.698	219.08	0.514	230.75	1.860	242.42	0.710	254.08	0.031	265.75	0.000	277.42	0.000
195.83	0.568	207.50	1.713	219.17	0.505	230.83	1.881	242.50	0.698	254.17	0.030	265.83	0.000	277.50	0.000
195.92	0.557	207.58	1.728	219.25	0.496	230.92	1.902	242.58	0.685	254.25	0.029	265.92	0.000	277.58	0.000
196.00	0.546	207.67	1.744	219.33	0.487	231.00	1.923	242.67	0.673	254.33	0.028	266.00	0.000	277.67	0.000
196.08	0.536	207.75	1.758	219.42	0.478	231.08	1.943	242.75	0.661	254.42	0.027	266.08	0.000	277.75	0.000
196.17	0.525	207.83	1.772	219.50	0.469	231.17	1.964	242.83	0.649	254.50	0.026	266.17	0.000	277.83	0.000
196.25	0.515	207.92	1.785	219.58	0.460	231.25	1.984	242.92	0.638	254.58	0.025	266.25	0.000	277.92	0.000
196.33	0.505	208.00	1.798	219.67	0.450	231.33	2.005	243.00	0.626	254.67	0.024	266.33	0.000	278.00	0.000
196.42	0.496	208.08	1.810	219.75	0.442	231.42	2.023	243.08	0.614	254.75	0.024	266.42	0.000	278.08	0.000
196.50	0.486	208.17	1.822	219.83	0.433	231.50	2.042	243.17	0.603	254.83	0.023	266.50	0.000	278.17	0.000
196.58	0.476	208.25	1.833	219.92	0.425	231.58	2.061	243.25	0.591	254.92	0.022	266.58	0.000	278.25	0.000
196.67	0.466	208.33	1.844	220.00	0.416	231.67	2.079	243.33	0.581	255.00	0.021	266.67	0.000	278.33	0.000
196.75	0.456	208.42	1.854	220.08	0.407	231.75	2.096	243.42	0.570	255.08	0.021	266.75	0.000	278.42	0.000
196.83	0.447	208.50	1.864	220.17	0.398	231.83	2.114	243.50	0.559	255.17	0.020	266.83	0.000	278.50	0.000
196.92	0.438	208.58	1.873	220.25	0.389	231.92	2.130	243.58	0.548	255.25	0.019	266.92	0.000	278.58	0.000
197.00	0.429	208.67	1.882	220.33	0.381	232.00	2.147	243.67	0.537	255.33	0.019	267.00	0.000	278.67	0.000
197.08	0.420	208.75	1.890	220.42	0.373	232.08	2.162	243.75	0.527	255.42	0.018	267.08	0.000	278.75	0.000
197.17	0.411	208.83	1.898	220.50	0.366	232.17	2.178	243.83	0.517	255.50	0.018	267.17	0.000	278.83	0.000
197.25	0.402	208.92	1.906	220.58	0.358	232.25	2.192	243.92	0.508	255.58	0.017	267.25	0.000	278.92	0.000
197.33	0.393	209.00	1.912	220.67	0.351	232.33	2.206	244.00	0.498	255.67	0.017	267.33	0.000	279.00	0.000
197.42	0.384	209.08	1.919	220.75	0.344	232.42	2.220	244.08	0.489	255.75	0.016	267.42	0.000	279.08	0.000
197.50	0.376	209.17	1.925	220.83	0.337	232.50	2.232	244.17	0.479	255.83	0.016	267.50	0.000	279.17	0.000
197.58	0.368	209.25	1.931	220.92	0.330	232.58	2.244	244.25	0.469	255.92	0.015	267.58	0.000	279.25	0.000
197.67	0.361	209.33	1.936	221.00	0.324	232.67	2.256	244.33	0.460	256.00	0.015	267.67	0.000	279.33	0.000
197.75	0.353	209.42	1.940	221.08	0.317	232.75	2.266	244.42	0.450	256.08	0.014	267.75	0.000	279.42	0.000
197.83	0.346	209.50	1.944	221.17	0.311	232.83	2.276	244.50	0.441	256.17	0.014	267.83	0.000	279.50	0.000
197.92	0.339	209.58	1.947	221.25	0.305	232.92	2.287	244.58	0.433	256.25	0.013	267.92	0.000	279.58	0.000
198.00	0.331	209.67	1.950	221.33	0.300	233.00	2.295	244.67	0.424	256.33	0.013	268.00	0.000	279.67	0.000
198.08	0.325	209.75	1.952	221.42	0.294	233.08	2.303	244.75	0.415	256.42	0.013	268.08	0.000	279.75	0.000
198.17	0.318	209.83	1.953	221.50	0.288	233.17	2.311	244.83	0.406	256.50	0.012	268.17	0.000	279.83	0.000
198.25	0.312	209.92	1.953	221.58	0.283	233.25	2.318	244.92	0.397	256.58	0.012	268.25	0.000	279.92	0.000

VG1-3 (VG SPRING)



Hydrograph Statistics:

Legend	Filename & Comment	Time Step (min)	Drainage Area (ha)	Peak Flow (cms)	Time to Peak (hrs)	Runoff Volume (mm)	Runoff Volume (cu.m)	Duration of flow (hrs)	Average flow (cms)
——○——	H-VG1-3.100 : VG1-3	5.00	225.20	3.166	113.500	250.81	5.648E+05	256.833	0.611

Hydrograph Table:

Hydrograph Filename : Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSPRI~1\H-VG1-3.100
Comment in file : VG1-3

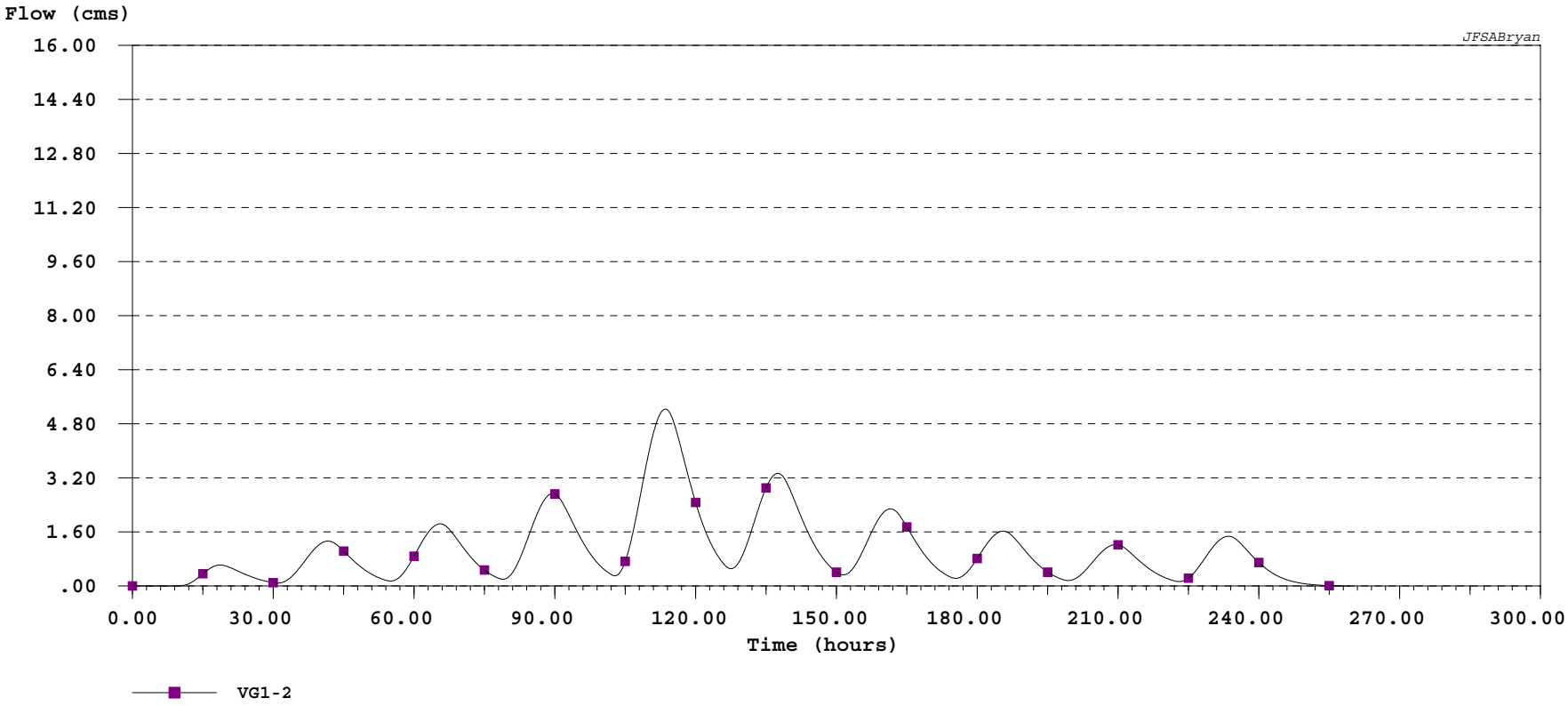
TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
0.00	0.000	11.25	0.015	22.50	0.275	33.75	0.148	45.00	0.633	56.25	0.110
0.08	0.000	11.33	0.016	22.58	0.271	33.83	0.154	45.08	0.626	56.33	0.114
0.17	0.000	11.42	0.018	22.67	0.267	33.92	0.160	45.17	0.619	56.42	0.118
0.25	0.000	11.50	0.021	22.75	0.264	34.00	0.166	45.25	0.611	56.50	0.123
0.33	0.000	11.58	0.023	22.83	0.260	34.08	0.172	45.33	0.604	56.58	0.128
0.42	0.000	11.67	0.025	22.92	0.256	34.17	0.178	45.42	0.597	56.67	0.133
0.50	0.000	11.75	0.028	23.00	0.252	34.25	0.185	45.50	0.589	56.75	0.139
0.58	0.000	11.83	0.030	23.08	0.249	34.33	0.191	45.58	0.582	56.83	0.144
0.67	0.000	11.92	0.033	23.17	0.245	34.42	0.198	45.67	0.574	56.92	0.150
0.75	0.000	12.00	0.035	23.25	0.241	34.50	0.205	45.75	0.566	57.00	0.156
0.83	0.000	12.08	0.038	23.33	0.238	34.58	0.213	45.83	0.559	57.08	0.162
0.92	0.000	12.17	0.041	23.42	0.234	34.67	0.220	45.92	0.551	57.17	0.168
1.00	0.000	12.25	0.044	23.50	0.230	34.75	0.227	46.00	0.544	57.25	0.175
1.08	0.000	12.33	0.048	23.58	0.227	34.83	0.235	46.08	0.536	57.33	0.182
1.17	0.000	12.42	0.051	23.67	0.223	34.92	0.243	46.17	0.528	57.42	0.189
1.25	0.000	12.50	0.054	23.75	0.220	35.00	0.250	46.25	0.521	57.50	0.197
1.33	0.000	12.58	0.058	23.83	0.216	35.08	0.258	46.33	0.513	57.58	0.205
1.42	0.000	12.67	0.061	23.92	0.212	35.17	0.266	46.42	0.506	57.67	0.213
1.50	0.000	12.75	0.065	24.00	0.209	35.25	0.274	46.50	0.498	57.75	0.221
1.58	0.000	12.83	0.069	24.08	0.205	35.33	0.283	46.58	0.490	57.83	0.230
1.67	0.000	12.92	0.073	24.17	0.202	35.42	0.291	46.67	0.483	57.92	0.238
1.75	0.000	13.00	0.077	24.25	0.198	35.50	0.299	46.75	0.475	58.00	0.247
1.83	0.000	13.08	0.081	24.33	0.195	35.58	0.308	46.83	0.468	58.08	0.256
1.92	0.000	13.17	0.085	24.42	0.192	35.67	0.317	46.92	0.460	58.17	0.265
2.00	0.000	13.25	0.090	24.50	0.188	35.75	0.325	47.00	0.453	58.25	0.274
2.08	0.000	13.33	0.094	24.58	0.185	35.83	0.334	47.08	0.446	58.33	0.284
2.17	0.000	13.42	0.099	24.67	0.182	35.92	0.343	47.17	0.438	58.42	0.294
2.25	0.000	13.50	0.103	24.75	0.178	36.00	0.352	47.25	0.431	58.50	0.304
2.33	0.000	13.58	0.108	24.83	0.175	36.08	0.361	47.33	0.424	58.58	0.314
2.42	0.000	13.67	0.113	24.92	0.172	36.17	0.370	47.42	0.417	58.67	0.325
2.50	0.000	13.75	0.118	25.00	0.169	36.25	0.379	47.50	0.410	58.75	0.336
2.58	0.000	13.83	0.123	25.08	0.166	36.33	0.388	47.58	0.403	58.83	0.346
2.67	0.000	13.92	0.128	25.17	0.162	36.42	0.397	47.67	0.396	58.92	0.357
2.75	0.000	14.00	0.133	25.25	0.159	36.50	0.407	47.75	0.389	59.00	0.368
2.83	0.000	14.08	0.138	25.33	0.156	36.58	0.416	47.83	0.382	59.08	0.380
2.92	0.000	14.17	0.144	25.42	0.153	36.67	0.425	47.92	0.375	59.17	0.391
3.00	0.000	14.25	0.149	25.50	0.150	36.75	0.434	48.00	0.368	59.25	0.402
3.08	0.000	14.33	0.154	25.58	0.148	36.83	0.444	48.08	0.362	59.33	0.414
3.17	0.000	14.42	0.160	25.67	0.145	36.92	0.453	48.17	0.355	59.42	0.426
3.25	0.000	14.50	0.165	25.75	0.142	37.00	0.463	48.25	0.349	59.50	0.438
3.33	0.000	14.58	0.171	25.83	0.139	37.08	0.472	48.33	0.342	59.58	0.450
3.42	0.000	14.67	0.176	25.92	0.136	37.17	0.481	48.42	0.336	59.67	0.462
3.50	0.000	14.75	0.182	26.00	0.134	37.25	0.490	48.50	0.330	59.75	0.475
3.58	0.000	14.83	0.187	26.08	0.131	37.33	0.500	48.58	0.323	59.83	0.487
3.67	0.000	14.92	0.193	26.17	0.128	37.42	0.509	48.67	0.317	59.92	0.500
3.75	0.000	15.00	0.199	26.25	0.126	37.50	0.518	48.75	0.311	60.00	0.512
3.83	0.000	15.08	0.205	26.33	0.123	37.58	0.527	48.83	0.305	60.08	0.525
3.92	0.000	15.17	0.210	26.42	0.121	37.67	0.536	48.92	0.299	60.17	0.537
4.00	0.000	15.25	0.216	26.50	0.118	37.75	0.545	49.00	0.293	60.25	0.550
4.08	0.000	15.33	0.221	26.58	0.116	37.83	0.554	49.08	0.288	60.33	0.563
4.17	0.000	15.42	0.227	26.67	0.113	37.92	0.563	49.17	0.282	60.42	0.576
4.25	0.000	15.50	0.232	26.75	0.111	38.00	0.572	49.25	0.276	60.50	0.588
4.33	0.000	15.58	0.238	26.83	0.109	38.08	0.581	49.33	0.271	60.58	0.601
4.42	0.000	15.67	0.243	26.92	0.106	38.17	0.589	49.42	0.266	60.67	0.614
4.50	0.000	15.75	0.249	27.00	0.104	38.25	0.598	49.50	0.260	60.75	0.627
4.58	0.000	15.83	0.254	27.08	0.102	38.33	0.606	49.58	0.255	60.83	0.640
4.67	0.000	15.92	0.260	27.17	0.100	38.42	0.615	49.67	0.250	60.92	0.653
4.75	0.000	16.00	0.265	27.25	0.098	38.50	0.623	49.75	0.245	61.00	0.666
4.83	0.000	16.08	0.271	27.33	0.095	38.58	0.631	49.83	0.240	61.08	0.679
4.92	0.000	16.17	0.276	27.42	0.093	38.67	0.639	49.92	0.235	61.17	0.691
5.00	0.000	16.25	0.281	27.50	0.091	38.75	0.646	50.00	0.230	61.25	0.704
5.08	0.000	16.33	0.286	27.58	0.089	38.83	0.654	50.08	0.225	61.33	0.717
5.17	0.000	16.42	0.291	27.67	0.087	38.92	0.662	50.17	0.220	61.42	0.729
5.25	0.000	16.50	0.295	27.75	0.085	39.00	0.669	50.25	0.216	61.50	0.742
5.33	0.000	16.58	0.300	27.83	0.084	39.08	0.677	50.33	0.211	61.58	0.754
5.42	0.000	16.67	0.304	27.92	0.082	39.17	0.684	50.42	0.207	61.67	0.766
5.50	0.000	16.75	0.309	28.00	0.080	39.25	0.691	50.50	0.202	61.75	0.779
5.58	0.000	16.83	0.313	28.08	0.078	39.33	0.698	50.58	0.198	61.83	0.791
5.67	0.000	16.92	0.317	28.17	0.076	39.42	0.704	50.67	0.194	61.92	0.803
5.75	0.000	17.00	0.322	28.25	0.075	39.50	0.711	50.75	0.189	62.00	0.815
5.83	0.000	17.08	0.326	28.33	0.073	39.58	0.717	50.83	0.185	62.08	0.827
5.92	0.000	17.17	0.330	28.42	0.071	39.67	0.723	50.92	0.181	62.17	0.839
6.00	0.000	17.25	0.334	28.50	0.070	39.75	0.729	51.00	0.177	62.25	0.850
6.08	0.000	17.33	0.337	28.58	0.068	39.83	0.734	51.08	0.173	62.33	0.861
6.17	0.000	17.42	0.340	28.67	0.067	39.92	0.740	51.17	0.170	62.42	0.873
6.25	0.000	17.50	0.343	28.75	0.065	40.00	0.745	51.25	0.166	62.50	0.883
6.33	0.000	17.58	0.346	28.83	0.064	40.08	0.751	51.33	0.162	62.58	0.894
6.42	0.000	17.67	0.349	28.92	0.062	40.17	0.756	51.42	0.159	62.67	0.905
6.50	0.000	17.75	0.352	29.00	0.061	40.25	0.760	51.50	0.155	62.75	0.915
6.58	0.000	17.83	0.354	29.08	0.059	40.33	0.765	51.58	0.152	62.83	0.925
6.67	0.000	17.92	0.357	29.17	0.058	40.42	0.769	51.67	0.148	62.92	0.936
6.75	0.000	18.00	0.359	29.25	0.057	40.50	0.772	51.75	0.145	63.00	0.946
6.83	0.000	18.08	0.361	29.33	0.055	40.58	0.776	51.83	0.142	63.08	0.956
6.92	0.000	18.17	0.363	29.42	0.054	40.67	0.779	51.92	0.138	63.17	0.965
7.00	0.000	18.25	0.365	29.50	0.053	40.75	0.782	52.00	0.135	63.25	0.974
7.08	0.000	18.33	0.366	29.58	0.051	40.83	0.786	52.08	0.132	63.33	0.983
7.17	0.000	18.42	0.367	29.67	0.050	40.92	0.788	52.17	0.129	63.42	0.991
7.25	0.000	18.50	0.368	29.75	0.049	41.00	0.791	52.25	0.126	63.50	1.000
7.33	0.000	18.58	0.369	29.83	0.048	41.08	0.794	52.33	0.123	63.58	1.008
7.42	0.000	18.67	0.369	29.92	0.047	41.17	0.796	52.42	0.120	63.67	1.015
7.50	0.000	18.75	0.370	30.00	0.046	41.25	0.798	52.50	0.118	63.75	1.023
7.58	0.000	18.83	0.370	30.08	0.045	41.33	0.799	52.58	0.115	63.83	1.030
7.67	0.000	18.92	0.370	30.17	0.044	41.42	0.800	52.67	0.112	63.92	1.037
7.75	0.000	19.00	0.370	30.25	0.043	41.50	0.801	52.75	0.110	64.00	1.044
7.83	0.000	19.08	0.370	30.33	0.043	41.58	0.801	52.83	0.107	64.08	1.051
7.92	0.000	19.17	0.370	30.42	0.043	41.67	0.801	52.92	0.104	64.17	1.058
8.00	0.000	19.25	0.369	30.50	0.043	41.75	0.801	53.00	0.102	64.25	1.063
8.08	0.000	19.33	0.369	30.58	0.044	41.83	0.801	53.08	0.100	64.33	1.069
8.17	0.000	19.42	0.368	30.67	0.044	41.92	0.801	53.17	0.097	64.42	1.074
8.25	0.000	19.50	0.368	30.75	0.044	42.00	0.800	53.25	0.095	64.50	1.078
8.33	0.000	19.58	0.367	30.83	0.045	42.08	0.800	53.33	0.093	64.58	1.083
8.42	0.000	19.67	0.366	30.92	0.045	42.17	0.798	53.42	0.090	64.67	1.087
8.50	0.000	19.75	0.365	31.00	0.046	42.25	0.797	53.50	0.088	64.75	1.091
8.58	0.000	19.83	0.364	31.08	0.046	42.33	0.795	53.58	0.086	64.83	1.094
8.67	0.000	19.92	0.363	31.17	0.047	42.42	0.792	53.67	0.084	64.92	1.098
8.75	0.000	20.00	0.361	31.25	0.048	42.50	0.790	53.75	0.082	65.00	1.101
8.83	0.000	20.08	0.360	31.33	0.049	42.58	0.787	53.83	0.080	65.08	1.104
8.92	0.000	20.17	0.358	31.42	0.051	42.67	0.784	53.92	0.078	65.17	1.106
9.00	0.000	20.25	0.356	31.50	0.052	42.75	0.780	54.00	0.076	65.25	1.108
9.08	0.000	20.33	0.354	31.58	0.054	42.83	0.777	54.08	0.074	65.33	1.109
9.17	0.000	20.42	0.352	31.67	0.056	42.92	0.773	54.17	0.073	65.42	1.110
9.25	0.000	20.50	0.350	31.75	0.058	43.00	0.769	54.25	0.072	65.50	1.111
9.33	0.000	20.58	0.348	31.83	0.060	43.08	0.765	54.33	0.071	65.58	1.111
9.42	0.000	20.67	0.345	31.92	0.062	43.17	0.761	54.42	0.071	65.67	1.110
9.50	0.000	20.75	0.343	32.00	0.064	43.25	0.757	54.50	0.071	65.75	1.110
9.58	0.000	20.83	0.340	32.08	0.066	43.33	0.752	54.58	0.071	65.83	1.109
9.67	0.000	20.92	0.338	32.17	0.068	43.42	0.748	54.67	0.072	65.92	1.108
9.75	0.000	21.00	0.335	32.25	0.071	43.50	0.743	54.75	0.072	66.00	1.107
9.83	0.000	21.08	0.332	32.33	0.074	43.58	0.738	54.83	0.073	66.08	1.106
9.92	0.000	21.17	0.329	32.42	0.077	43.67	0.733	54.92	0.073	66.17	1.104
10.00	0.000	21.25	0.326	32.50	0.080	43.75	0.728	55.00	0.074	66.25	1.101
10.08	0.000	21.33	0.323	32.58	0.084	43.83	0.722	55.08	0.074	66.33	1.098
10.17	0.001	21.42	0.320	32.67	0.087	43.92	0.717	55.17	0.075	66.42	1.094
10.25	0.001	21.50	0.317	32.75	0.091	44.00	0.711	55.25	0.077	66.50	1.090
10.33	0.001	21.58	0.313	32.83	0.095	44.08	0.705	55.33	0.078	66.58	1.086
10.42	0.002	21.67	0.310	32.92	0.099	44.17	0.699	55.42	0.080	66.67	1.081
10.50	0.003	21.75	0.307	33.00	0.103	44.25	0.693	55.50	0.083	66.75	1.076
10.58	0.004	21.83	0.303	33.08	0.107	44.33	0.687	55.58	0.085	66.83	1.070
10.67	0.005	21.92	0.300	33.17	0.111	44.42	0.681	55.67	0.088	66.92	1.065
10.75	0.006	22.00	0.296	33.25	0.116	44.50	0.674	55.75	0.090	67.00	1.059
10.83	0.007	22.08	0.293	33.33	0.121	44.58	0.668	55.83	0.093	67.08	1.053
10.92	0.008	22.17	0.289	33.42	0.126	44.67	0.661	55.92	0.096	67.17	1.047
11.00	0.010	22.25	0.286	33.50	0.131	44.75	0.654	56.00	0.099	67.25	1.041
11.08	0.011	22.33	0.282	33.58	0.137	44.83	0.647	56.08	0.102	67.33	1.035
11.17	0.013	22.42	0.278	33.67	0.142	44.92	0.640	56.17	0.106	67.42	1.028

TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
67.50	1.021	78.75	0.100	90.00	1.648	101.25	0.190	112.50	3.080	123.75	0.556
67.58	1.014	78.83	0.101	90.08	1.646	101.33	0.186	112.58	3.092	123.83	0.543
67.67	1.007	78.92	0.102	90.17	1.642	101.42	0.181	112.67	3.103	123.92	0.531
67.75	0.999	79.00	0.103	90.25	1.638	101.50	0.177	112.75	3.113	124.00	0.519
67.83	0.992	79.08	0.104	90.33	1.633	101.58	0.172	112.83	3.123	124.08	0.507
67.92	0.984	79.17	0.105	90.42	1.628	101.67	0.168	112.92	3.132	124.17	0.495
68.00	0.976	79.25	0.108	90.50	1.621	101.75	0.164	113.00	3.141	124.25	0.484
68.08	0.968	79.33	0.111	90.58	1.615	101.83	0.160	113.08	3.149	124.33	0.473
68.17	0.959	79.42	0.114	90.67	1.607	101.92	0.156	113.17	3.155	124.42	0.462
68.25	0.951	79.50	0.118	90.75	1.600	102.00	0.152	113.25	3.160	124.50	0.451
68.33	0.942	79.58	0.122	90.83	1.592	102.08	0.149	113.33	3.163	124.58	0.440
68.42	0.933	79.67	0.126	90.92	1.583	102.17	0.147	113.42	3.165	124.67	0.430
68.50	0.924	79.75	0.130	91.00	1.575	102.25	0.146	113.50	3.166	124.75	0.420
68.58	0.914	79.83	0.134	91.08	1.566	102.33	0.146	113.58	3.166	124.83	0.410
68.67	0.905	79.92	0.139	91.17	1.557	102.42	0.146	113.67	3.164	124.92	0.400
68.75	0.896	80.00	0.144	91.25	1.547	102.50	0.148	113.75	3.163	125.00	0.391
68.83	0.886	80.08	0.148	91.33	1.538	102.58	0.150	113.83	3.160	125.08	0.381
68.92	0.876	80.17	0.154	91.42	1.528	102.67	0.153	113.92	3.157	125.17	0.372
69.00	0.866	80.25	0.160	91.50	1.517	102.75	0.155	114.00	3.153	125.25	0.363
69.08	0.856	80.33	0.166	91.58	1.507	102.83	0.158	114.08	3.149	125.33	0.355
69.17	0.846	80.42	0.173	91.67	1.496	102.92	0.161	114.17	3.142	125.42	0.346
69.25	0.836	80.50	0.181	91.75	1.485	103.00	0.164	114.25	3.135	125.50	0.338
69.33	0.826	80.58	0.189	91.83	1.473	103.08	0.167	114.33	3.125	125.58	0.329
69.42	0.815	80.67	0.197	91.92	1.462	103.17	0.171	114.42	3.114	125.67	0.321
69.50	0.805	80.75	0.205	92.00	1.450	103.25	0.177	114.50	3.102	125.75	0.313
69.58	0.795	80.83	0.214	92.08	1.437	103.33	0.183	114.58	3.089	125.83	0.306
69.67	0.784	80.92	0.222	92.17	1.425	103.42	0.190	114.67	3.075	125.92	0.298
69.75	0.774	81.00	0.231	92.25	1.412	103.50	0.198	114.75	3.060	126.00	0.291
69.83	0.763	81.08	0.240	92.33	1.399	103.58	0.206	114.83	3.045	126.08	0.284
69.92	0.753	81.17	0.250	92.42	1.385	103.67	0.215	114.92	3.029	126.17	0.278
70.00	0.742	81.25	0.260	92.50	1.372	103.75	0.224	115.00	3.012	126.25	0.272
70.08	0.732	81.33	0.271	92.58	1.358	103.83	0.233	115.08	2.995	126.33	0.268
70.17	0.721	81.42	0.282	92.67	1.344	103.92	0.243	115.17	2.978	126.42	0.264
70.25	0.711	81.50	0.294	92.75	1.330	104.00	0.252	115.25	2.960	126.50	0.261
70.33	0.700	81.58	0.306	92.83	1.315	104.08	0.262	115.33	2.941	126.58	0.258
70.42	0.690	81.67	0.318	92.92	1.301	104.17	0.273	115.42	2.922	126.67	0.255
70.50	0.679	81.75	0.331	93.00	1.286	104.25	0.285	115.50	2.902	126.75	0.253
70.58	0.669	81.83	0.343	93.08	1.271	104.33	0.299	115.58	2.882	126.83	0.251
70.67	0.658	81.92	0.356	93.17	1.256	104.42	0.313	115.67	2.861	126.92	0.249
70.75	0.648	82.00	0.369	93.25	1.241	104.50	0.328	115.75	2.840	127.00	0.247
70.83	0.638	82.08	0.383	93.33	1.226	104.58	0.343	115.83	2.818	127.08	0.245
70.92	0.628	82.17	0.397	93.42	1.210	104.67	0.360	115.92	2.795	127.17	0.244
71.00	0.617	82.25	0.411	93.50	1.195	104.75	0.376	116.00	2.772	127.25	0.244
71.08	0.607	82.33	0.426	93.58	1.179	104.83	0.393	116.08	2.748	127.33	0.244
71.17	0.597	82.42	0.441	93.67	1.164	104.92	0.410	116.17	2.724	127.42	0.246
71.25	0.587	82.50	0.456	93.75	1.148	105.00	0.428	116.25	2.699	127.50	0.247
71.33	0.577	82.58	0.472	93.83	1.132	105.08	0.446	116.33	2.674	127.58	0.249
71.42	0.568	82.67	0.488	93.92	1.117	105.17	0.465	116.42	2.649	127.67	0.252
71.50	0.558	82.75	0.504	94.00	1.101	105.25	0.485	116.50	2.623	127.75	0.254
71.58	0.548	82.83	0.520	94.08	1.086	105.33	0.506	116.58	2.596	127.83	0.257
71.67	0.539	82.92	0.537	94.17	1.070	105.42	0.528	116.67	2.569	127.92	0.260
71.75	0.529	83.00	0.553	94.25	1.054	105.50	0.551	116.75	2.542	128.00	0.263
71.83	0.520	83.08	0.570	94.33	1.039	105.58	0.575	116.83	2.514	128.08	0.267
71.92	0.511	83.17	0.587	94.42	1.023	105.67	0.599	116.92	2.486	128.17	0.271
72.00	0.501	83.25	0.604	94.50	1.008	105.75	0.623	117.00	2.458	128.25	0.276
72.08	0.492	83.33	0.622	94.58	0.992	105.83	0.648	117.08	2.430	128.33	0.282
72.17	0.483	83.42	0.640	94.67	0.977	105.92	0.673	117.17	2.401	128.42	0.289
72.25	0.474	83.50	0.658	94.75	0.961	106.00	0.699	117.25	2.372	128.50	0.296
72.33	0.466	83.58	0.676	94.83	0.946	106.08	0.725	117.33	2.343	128.58	0.303
72.42	0.457	83.67	0.695	94.92	0.931	106.17	0.752	117.42	2.313	128.67	0.311
72.50	0.448	83.75	0.713	95.00	0.916	106.25	0.780	117.50	2.284	128.75	0.319
72.58	0.440	83.83	0.732	95.08	0.901	106.33	0.808	117.58	2.254	128.83	0.328
72.67	0.431	83.92	0.750	95.17	0.886	106.42	0.837	117.67	2.224	128.92	0.337
72.75	0.423	84.00	0.769	95.25	0.871	106.50	0.867	117.75	2.195	129.00	0.346
72.83	0.415	84.08	0.788	95.33	0.856	106.58	0.898	117.83	2.165	129.08	0.355
72.92	0.407	84.17	0.807	95.42	0.842	106.67	0.929	117.92	2.135	129.17	0.365
73.00	0.399	84.25	0.826	95.50	0.827	106.75	0.960	118.00	2.105	129.25	0.376
73.08	0.391	84.33	0.845	95.58	0.813	106.83	0.991	118.08	2.075	129.33	0.388
73.17	0.383	84.42	0.864	95.67	0.799	106.92	1.023	118.17	2.045	129.42	0.400
73.25	0.376	84.50	0.883	95.75	0.785	107.00	1.055	118.25	2.015	129.50	0.412
73.33	0.368	84.58	0.903	95.83	0.771	107.08	1.088	118.33	1.985	129.58	0.425
73.42	0.361	84.67	0.922	95.92	0.757	107.17	1.121	118.42	1.955	129.67	0.439
73.50	0.354	84.75	0.941	96.00	0.743	107.25	1.155	118.50	1.926	129.75	0.453
73.58	0.346	84.83	0.960	96.08	0.730	107.33	1.189	118.58	1.896	129.83	0.467
73.67	0.339	84.92	0.979	96.17	0.716	107.42	1.223	118.67	1.866	129.92	0.481
73.75	0.332	85.00	0.999	96.25	0.703	107.50	1.258	118.75	1.837	130.00	0.496
73.83	0.325	85.08	1.018	96.33	0.690	107.58	1.293	118.83	1.808	130.08	0.511
73.92	0.319	85.17	1.037	96.42	0.677	107.67	1.329	118.92	1.779	130.17	0.527
74.00	0.312	85.25	1.056	96.50	0.664	107.75	1.364	119.00	1.750	130.25	0.543
74.08	0.306	85.33	1.075	96.58	0.652	107.83	1.400	119.08	1.721	130.33	0.560
74.17	0.299	85.42	1.093	96.67	0.639	107.92	1.436	119.17	1.693	130.42	0.577
74.25	0.293	85.50	1.112	96.75	0.627	108.00	1.472	119.25	1.664	130.50	0.594
74.33	0.287	85.58	1.130	96.83	0.615	108.08	1.509	119.33	1.636	130.58	0.612
74.42	0.281	85.67	1.148	96.92	0.603	108.17	1.545	119.42	1.608	130.67	0.631
74.50	0.275	85.75	1.167	97.00	0.591	108.25	1.582	119.50	1.581	130.75	0.649
74.58	0.269	85.83	1.185	97.08	0.580	108.33	1.619	119.58	1.553	130.83	0.668
74.67	0.263	85.92	1.203	97.17	0.568	108.42	1.655	119.67	1.526	130.92	0.687
74.75	0.257	86.00	1.221	97.25	0.557	108.50	1.692	119.75	1.499	131.00	0.707
74.83	0.252	86.08	1.239	97.33	0.546	108.58	1.729	119.83	1.473	131.08	0.726
74.92	0.246	86.17	1.256	97.42	0.535	108.67	1.766	119.92	1.446	131.17	0.746
75.00	0.241	86.25	1.273	97.50	0.524	108.75	1.803	120.00	1.420	131.25	0.766
75.08	0.235	86.33	1.290	97.58	0.513	108.83	1.840	120.08	1.394	131.33	0.787
75.17	0.230	86.42	1.306	97.67	0.503	108.92	1.877	120.17	1.369	131.42	0.808
75.25	0.225	86.50	1.322	97.75	0.492	109.00	1.914	120.25	1.343	131.50	0.829
75.33	0.220	86.58	1.338	97.83	0.482	109.08	1.951	120.33	1.318	131.58	0.850
75.42	0.215	86.67	1.353	97.92	0.472	109.17	1.988	120.42	1.294	131.67	0.872
75.50	0.210	86.75	1.369	98.00	0.462	109.25	2.024	120.50	1.269	131.75	0.894
75.58	0.206	86.83	1.384	98.08	0.453	109.33	2.060	120.58	1.245	131.83	0.916
75.67	0.201	86.92	1.399	98.17	0.443	109.42	2.096	120.67	1.222	131.92	0.938
75.75	0.196	87.00	1.414	98.25	0.434	109.50	2.131	120.75	1.198	132.00	0.960
75.83	0.192	87.08	1.428	98.33	0.425	109.58	2.166	120.83	1.175	132.08	0.982
75.92	0.188	87.17	1.443	98.42	0.416	109.67	2.201	120.92	1.152	132.17	1.005
76.00	0.183	87.25	1.456	98.50	0.407	109.75	2.236	121.00	1.130	132.25	1.027
76.08	0.179	87.33	1.469	98.58	0.398	109.83	2.271	121.08	1.107	132.33	1.050
76.17	0.175	87.42	1.481	98.67	0.389	109.92	2.306	121.17	1.085	132.42	1.072
76.25	0.171	87.50	1.493	98.75	0.381	110.00	2.340	121.25	1.064	132.50	1.095
76.33	0.167	87.58	1.505	98.83	0.373	110.08	2.374	121.33	1.042	132.58	1.118
76.42	0.163	87.67	1.516	98.92	0.365	110.17	2.407	121.42	1.022	132.67	1.141
76.50	0.159	87.75	1.527	99.00	0.357	110.25	2.440	121.50	1.001	132.75	1.163
76.58	0.156	87.83	1.538	99.08	0.349	110.33	2.472	121.58	0.981	132.83	1.186
76.67	0.152	87.92	1.549	99.17	0.341	110.42	2.503	121.67	0.960	132.92	1.209
76.75	0.148	88.00	1.559	99.25	0.333	110.50	2.534	121.75	0.941	133.00	1.232
76.83	0.145	88.08	1.569	99.33	0.326	110.58	2.564	121.83	0.921	133.08	1.255
76.92	0.142	88.17	1.578	99.42	0.319	110.67	2.594	121.92	0.902	133.17	1.278
77.00	0.138	88.25	1.587	99.50	0.312	110.75	2.623	122.00	0.883	133.25	1.300
77.08	0.135	88.33	1.595	99.58	0.305	110.83	2.652	122.08	0.865	133.33	1.323
77.17	0.132	88.42	1.602	99.67	0.298	110.92	2.681	122.17	0.847	133.42	1.345
77.25	0.128	88.50	1.609	99.75	0.291	111.00	2.710	122.25	0.829	133.50	1.367
77.33	0.125	88.58	1.615	99.83	0.284	111.08	2.737	122.33	0.811	133.58	1.389
77.42	0.122	88.67	1.621	99.92	0.278	111.17	2.764	122.42	0.794	133.67	1.410
77.50	0.119	88.75	1.626	100.00	0.272	111.25	2.790	122.50	0.777	133.75	1.432
77.58	0.116	88.83	1.631	100.08	0.265	111.33	2.815	122.58	0.760	133.83	1.454
77.67	0.114	88.92	1.636	100.17	0.259	111.42	2.838	122.67	0.744	133.92	1.475
77.75	0.111	89.00	1.641	100.25	0.253	111.50	2.861	122.75	0.728	134.00	1.497
77.83	0.108	89.08	1.645	100.33	0.247	111.58	2.883	122.83	0.712	134.08	1.518
77.92	0.105	89.17	1.648	100.42	0.242	111.67	2.905	122.92	0.696	134.17	1.539
78.00	0.103	89.25	1.651	100.50	0.236	111.75	2.926	123.00	0.681	134.25	1.559
78.08	0.100	89.33	1.653	100.58	0.231	111.83	2.947	123.08	0.666	134.33	1.579
78.17	0.099	89.42	1.654	100.67	0.225	111.92	2.967	123.17	0.651	134.42	1.598
78.25	0.098	89.50	1.654	100.75	0.220	112.00	2.986	123.25	0.637	134.50	1.617
78.33	0.097	89.58	1.654	100.83	0.215	112.08	3.005	123.33	0.623	134.58	1.636
78.42	0.097	89.67	1.653	100.92	0.210	112.17	3.023	123.42	0.609	134.67	1.655
78.50	0.097	89.75	1.653	101.00	0.205	112.25	3.039	123.50	0.595	134.75	1.673
78.58	0.098	89.83	1.651	101.08	0.200	112.33	3.054	123.58	0.582	134.83	1.691
78.67	0.099	89.92	1.650	101.17	0.195	112.42	3.068	123.67	0.569	134.92	1.709

TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
135.00	1.727	146.25	0.526	157.50	0.936	168.75	0.521	180.00	0.466	191.25	0.515
135.08	1.745	146.33	0.515	157.58	0.951	168.83	0.511	180.08	0.477	191.33	0.506
135.17	1.761	146.42	0.504	157.67	0.966	168.92	0.501	180.17	0.488	191.42	0.497
135.25	1.777	146.50	0.493	157.75	0.981	169.00	0.491	180.25	0.499	191.50	0.489
135.33	1.793	146.58	0.483	157.83	0.996	169.08	0.482	180.33	0.510	191.58	0.480
135.42	1.808	146.67	0.472	157.92	1.011	169.17	0.472	180.42	0.521	191.67	0.472
135.50	1.822	146.75	0.462	158.00	1.026	169.25	0.463	180.50	0.533	191.75	0.464
135.58	1.836	146.83	0.452	158.08	1.040	169.33	0.454	180.58	0.544	191.83	0.455
135.67	1.849	146.92	0.442	158.17	1.055	169.42	0.444	180.67	0.555	191.92	0.447
135.75	1.862	147.00	0.432	158.25	1.068	169.50	0.435	180.75	0.566	192.00	0.439
135.83	1.875	147.08	0.423	158.33	1.082	169.58	0.427	180.83	0.577	192.08	0.431
135.92	1.888	147.17	0.414	158.42	1.095	169.67	0.418	180.92	0.588	192.17	0.423
136.00	1.900	147.25	0.404	158.50	1.109	169.75	0.409	181.00	0.600	192.25	0.415
136.08	1.912	147.33	0.395	158.58	1.122	169.83	0.401	181.08	0.611	192.33	0.408
136.17	1.923	147.42	0.387	158.67	1.134	169.92	0.393	181.17	0.622	192.42	0.400
136.25	1.933	147.50	0.378	158.75	1.147	170.00	0.384	181.25	0.633	192.50	0.393
136.33	1.943	147.58	0.369	158.83	1.159	170.08	0.376	181.33	0.644	192.58	0.385
136.42	1.951	147.67	0.361	158.92	1.172	170.17	0.368	181.42	0.655	192.67	0.378
136.50	1.959	147.75	0.353	159.00	1.184	170.25	0.361	181.50	0.665	192.75	0.371
136.58	1.966	147.83	0.345	159.08	1.196	170.33	0.353	181.58	0.676	192.83	0.363
136.67	1.973	147.92	0.337	159.17	1.207	170.42	0.345	181.67	0.687	192.92	0.356
136.75	1.980	148.00	0.329	159.25	1.218	170.50	0.338	181.75	0.697	193.00	0.349
136.83	1.986	148.08	0.322	159.33	1.229	170.58	0.331	181.83	0.708	193.08	0.342
136.92	1.991	148.17	0.314	159.42	1.239	170.67	0.324	181.92	0.718	193.17	0.336
137.00	1.997	148.25	0.307	159.50	1.249	170.75	0.317	182.00	0.729	193.25	0.329
137.08	2.002	148.33	0.300	159.58	1.259	170.83	0.310	182.08	0.739	193.33	0.322
137.17	2.006	148.42	0.293	159.67	1.268	170.92	0.303	182.17	0.749	193.42	0.316
137.25	2.009	148.50	0.286	159.75	1.277	171.00	0.296	182.25	0.759	193.50	0.310
137.33	2.011	148.58	0.280	159.83	1.286	171.08	0.290	182.33	0.769	193.58	0.303
137.42	2.012	148.67	0.273	159.92	1.294	171.17	0.283	182.42	0.779	193.67	0.297
137.50	2.012	148.75	0.267	160.00	1.303	171.25	0.277	182.50	0.788	193.75	0.291
137.58	2.012	148.83	0.260	160.08	1.311	171.33	0.271	182.58	0.797	193.83	0.285
137.67	2.011	148.92	0.254	160.17	1.318	171.42	0.265	182.67	0.806	193.92	0.279
137.75	2.010	149.00	0.248	160.25	1.325	171.50	0.259	182.75	0.815	194.00	0.273
137.83	2.008	149.08	0.242	160.33	1.332	171.58	0.253	182.83	0.824	194.08	0.267
137.92	2.006	149.17	0.236	160.42	1.338	171.67	0.247	182.92	0.833	194.17	0.262
138.00	2.004	149.25	0.231	160.50	1.343	171.75	0.242	183.00	0.842	194.25	0.256
138.08	2.001	149.33	0.225	160.58	1.348	171.83	0.236	183.08	0.850	194.33	0.251
138.17	1.997	149.42	0.220	160.67	1.353	171.92	0.231	183.17	0.858	194.42	0.246
138.25	1.992	149.50	0.214	160.75	1.357	172.00	0.226	183.25	0.866	194.50	0.240
138.33	1.986	149.58	0.209	160.83	1.361	172.08	0.221	183.33	0.874	194.58	0.235
138.42	1.979	149.67	0.204	160.92	1.365	172.17	0.215	183.42	0.881	194.67	0.230
138.50	1.971	149.75	0.199	161.00	1.369	172.25	0.210	183.50	0.888	194.75	0.225
138.58	1.963	149.83	0.194	161.08	1.372	172.33	0.206	183.58	0.895	194.83	0.220
138.67	1.954	149.92	0.189	161.17	1.375	172.42	0.201	183.67	0.901	194.92	0.215
138.75	1.944	150.00	0.185	161.25	1.377	172.50	0.196	183.75	0.908	195.00	0.211
138.83	1.935	150.08	0.180	161.33	1.378	172.58	0.192	183.83	0.914	195.08	0.206
138.92	1.924	150.17	0.176	161.42	1.379	172.67	0.187	183.92	0.920	195.17	0.201
139.00	1.914	150.25	0.173	161.50	1.379	172.75	0.183	184.00	0.926	195.25	0.197
139.08	1.903	150.33	0.170	161.58	1.379	172.83	0.178	184.08	0.932	195.33	0.193
139.17	1.892	150.42	0.168	161.67	1.379	172.92	0.174	184.17	0.937	195.42	0.188
139.25	1.880	150.50	0.166	161.75	1.378	173.00	0.170	184.25	0.942	195.50	0.184
139.33	1.868	150.58	0.164	161.83	1.377	173.08	0.166	184.33	0.947	195.58	0.180
139.42	1.856	150.67	0.163	161.92	1.375	173.17	0.162	184.42	0.951	195.67	0.176
139.50	1.844	150.75	0.162	162.00	1.374	173.25	0.158	184.50	0.955	195.75	0.172
139.58	1.831	150.83	0.160	162.08	1.372	173.33	0.154	184.58	0.958	195.83	0.168
139.67	1.817	150.92	0.159	162.17	1.369	173.42	0.150	184.67	0.962	195.92	0.164
139.75	1.804	151.00	0.158	162.25	1.365	173.50	0.147	184.75	0.965	196.00	0.160
139.83	1.790	151.08	0.157	162.33	1.361	173.58	0.143	184.83	0.968	196.08	0.157
139.92	1.775	151.17	0.157	162.42	1.356	173.67	0.140	184.92	0.970	196.17	0.153
140.00	1.761	151.25	0.157	162.50	1.351	173.75	0.136	185.00	0.973	196.25	0.150
140.08	1.746	151.33	0.158	162.58	1.345	173.83	0.133	185.08	0.975	196.33	0.146
140.17	1.730	151.42	0.159	162.67	1.339	173.92	0.130	185.17	0.977	196.42	0.143
140.25	1.715	151.50	0.160	162.75	1.333	174.00	0.126	185.25	0.979	196.50	0.139
140.33	1.699	151.58	0.162	162.83	1.326	174.08	0.123	185.33	0.980	196.58	0.136
140.42	1.682	151.67	0.164	162.92	1.319	174.17	0.121	185.42	0.980	196.67	0.133
140.50	1.666	151.75	0.166	163.00	1.312	174.25	0.119	185.50	0.981	196.75	0.130
140.58	1.649	151.83	0.168	163.08	1.304	174.33	0.117	185.58	0.980	196.83	0.127
140.67	1.632	151.92	0.170	163.17	1.297	174.42	0.115	185.67	0.980	196.92	0.124
140.75	1.614	152.00	0.173	163.25	1.289	174.50	0.114	185.75	0.979	197.00	0.121
140.83	1.597	152.08	0.176	163.33	1.281	174.58	0.113	185.83	0.979	197.08	0.118
140.92	1.579	152.17	0.179	163.42	1.272	174.67	0.112	185.92	0.978	197.17	0.115
141.00	1.561	152.25	0.182	163.50	1.264	174.75	0.111	186.00	0.976	197.25	0.112
141.08	1.543	152.33	0.187	163.58	1.255	174.83	0.110	186.08	0.975	197.33	0.110
141.17	1.525	152.42	0.191	163.67	1.246	174.92	0.110	186.17	0.973	197.42	0.107
141.25	1.506	152.50	0.196	163.75	1.236	175.00	0.109	186.25	0.971	197.50	0.104
141.33	1.488	152.58	0.202	163.83	1.227	175.08	0.109	186.33	0.968	197.58	0.102
141.42	1.469	152.67	0.207	163.92	1.217	175.17	0.108	186.42	0.964	197.67	0.099
141.50	1.450	152.75	0.213	164.00	1.207	175.25	0.109	186.50	0.960	197.75	0.097
141.58	1.431	152.83	0.219	164.08	1.197	175.33	0.109	186.58	0.956	197.83	0.095
141.67	1.413	152.92	0.225	164.17	1.186	175.42	0.110	186.67	0.952	197.92	0.092
141.75	1.394	153.00	0.232	164.25	1.175	175.50	0.111	186.75	0.947	198.00	0.090
141.83	1.375	153.08	0.238	164.33	1.164	175.58	0.112	186.83	0.943	198.08	0.088
141.92	1.356	153.17	0.245	164.42	1.153	175.67	0.114	186.92	0.938	198.17	0.086
142.00	1.337	153.25	0.253	164.50	1.142	175.75	0.115	187.00	0.933	198.25	0.084
142.08	1.317	153.33	0.261	164.58	1.130	175.83	0.117	187.08	0.927	198.33	0.083
142.17	1.298	153.42	0.269	164.67	1.118	175.92	0.119	187.17	0.922	198.42	0.082
142.25	1.279	153.50	0.278	164.75	1.107	176.00	0.120	187.25	0.916	198.50	0.081
142.33	1.260	153.58	0.287	164.83	1.095	176.08	0.122	187.33	0.910	198.58	0.081
142.42	1.242	153.67	0.297	164.92	1.082	176.17	0.125	187.42	0.904	198.67	0.080
142.50	1.223	153.75	0.306	165.00	1.070	176.25	0.127	187.50	0.898	198.75	0.079
142.58	1.204	153.83	0.316	165.08	1.058	176.33	0.130	187.58	0.892	198.83	0.079
142.67	1.185	153.92	0.326	165.17	1.045	176.42	0.134	187.67	0.885	198.92	0.079
142.75	1.166	154.00	0.336	165.25	1.032	176.50	0.137	187.75	0.879	199.00	0.078
142.83	1.148	154.08	0.347	165.33	1.020	176.58	0.141	187.83	0.872	199.08	0.078
142.92	1.129	154.17	0.358	165.42	1.007	176.67	0.145	187.92	0.865	199.17	0.078
143.00	1.111	154.25	0.369	165.50	0.994	176.75	0.149	188.00	0.858	199.25	0.078
143.08	1.093	154.33	0.380	165.58	0.981	176.83	0.154	188.08	0.850	199.33	0.079
143.17	1.075	154.42	0.392	165.67	0.968	176.92	0.158	188.17	0.843	199.42	0.079
143.25	1.057	154.50	0.405	165.75	0.955	177.00	0.163	188.25	0.835	199.50	0.080
143.33	1.039	154.58	0.417	165.83	0.942	177.08	0.168	188.33	0.828	199.58	0.081
143.42	1.021	154.67	0.430	165.92	0.929	177.17	0.173	188.42	0.820	199.67	0.083
143.50	1.004	154.75	0.443	166.00	0.916	177.25	0.178	188.50	0.812	199.75	0.084
143.58	0.986	154.83	0.456	166.08	0.903	177.33	0.184	188.58	0.803	199.83	0.085
143.67	0.969	154.92	0.469	166.17	0.890	177.42	0.190	188.67	0.795	199.92	0.086
143.75	0.952	155.00	0.482	166.25	0.877	177.50	0.196	188.75	0.787	200.00	0.088
143.83	0.935	155.08	0.496	166.33	0.864	177.58	0.203	188.83	0.778	200.08	0.090
143.92	0.918	155.17	0.509	166.42	0.851	177.67	0.210	188.92	0.769	200.17	0.091
144.00	0.902	155.25	0.523	166.50	0.838	177.75	0.216	189.00	0.761	200.25	0.093
144.08	0.885	155.33	0.538	166.58	0.825	177.83	0.223	189.08	0.752	200.33	0.096
144.17	0.869	155.42	0.552	166.67	0.812	177.92	0.231	189.17	0.743	200.42	0.098
144.25	0.853	155.50	0.567	166.75	0.799	178.00	0.238	189.25	0.734	200.50	0.101
144.33	0.837	155.58	0.581	166.83	0.787	178.08	0.245	189.33	0.725	200.58	0.104
144.42	0.821	155.67	0.596	166.92	0.774	178.17	0.253	189.42	0.716	200.67	0.107
144.50	0.806	155.75	0.611	167.00	0.762	178.25	0.261	189.50	0.707	200.75	0.111
144.58	0.791	155.83	0.626	167.08	0.749	178.33	0.269	189.58	0.697	200.83	0.114
144.67	0.776	155.92	0.641	167.17	0.737	178.42	0.278	189.67	0.688	200.92	0.117
144.75	0.761	156.00	0.657	167.25	0.724	178.50	0.287	189.75	0.679	201.00	0.121
144.83	0.746	156.08	0.672	167.33	0.712	178.58	0.295	189.83	0.670	201.08	0.124
144.92	0.731	156.17	0.687	167.42	0.700	178.67	0.305	189.92	0.660	201.17	0.128
145.00	0.717	156.25	0.703	167.50	0.688	178.75	0.314	190.00	0.651	201.25	0.133
145.08	0.703	156.33	0.718	167.58	0.676	178.83	0.323	190.08	0.642	201.33	0.137
145.17	0.689	156.42	0.734	167.67	0.664	178.92	0.332	190.17	0.633	201.42	0.142
145.25	0.675	156.50	0.750	167.75	0.652	179.00	0.342	190.25	0.623	201.50	0.146
145.33	0.662	156.58	0.765	167.83	0.641	179.08	0.352	190.33	0.614	201.58	0.151
145.42	0.649	156.67	0.781	167.92	0.629	179.17	0.361	190.42	0.605	201.67	0.157
145.50	0.635	156.75	0.797	168.00	0.618	179.25	0.371	190.50	0.596	201.75	0.162
145.58	0.622	156.83	0.812	168.08	0.607	179.33	0.381	190.58	0.586	201.83	0.167
145.67	0.610	156.92	0.828	168.17	0.596	179.42	0.392	190.67	0.577	201.92	0.173
145.75	0.597	157.00	0.844	168.25	0.585	179.50	0.402	190.75	0.568	202.00	0.178
145.83	0.585	157.08	0.860	168.33	0.574	179.58	0.413	190.83	0.559	202.08	0.184
145.92	0.573	157.17	0.875	168.42	0.563	179.67	0.423	190.92	0.550	202.17	0.190
146.00	0.561	157.25	0.891	168.50	0.552	179.75	0.434	191.00	0.541	202.25	0.196
146.08	0.549	157.33	0.906	168.58	0.542	179.83	0.445	191.08	0.532	202.33	0.202
146.17	0.538	157.42	0.921	168.67	0.532	179.92	0.455	191.17	0.524	202.42	0.209

TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
202.50	0.215	213.75	0.512	225.00	0.130	236.25	0.758	247.50	0.051
202.58	0.222	213.83	0.505	225.08	0.135	236.33	0.751	247.58	0.050
202.67	0.229	213.92	0.498	225.17	0.140	236.42	0.744	247.67	0.048
202.75	0.236	214.00	0.491	225.25	0.146	236.50	0.736	247.75	0.047
202.83	0.243	214.08	0.484	225.33	0.151	236.58	0.729	247.83	0.046
202.92	0.250	214.17	0.477	225.42	0.157	236.67	0.721	247.92	0.044
203.00	0.257	214.25	0.470	225.50	0.163	236.75	0.714	248.00	0.043
203.08	0.264	214.33	0.463	225.58	0.170	236.83	0.706	248.08	0.042
203.17	0.272	214.42	0.456	225.67	0.176	236.92	0.698	248.17	0.041
203.25	0.279	214.50	0.450	225.75	0.183	237.00	0.690	248.25	0.040
203.33	0.287	214.58	0.443	225.83	0.190	237.08	0.682	248.33	0.039
203.42	0.295	214.67	0.436	225.92	0.197	237.17	0.674	248.42	0.038
203.50	0.303	214.75	0.429	226.00	0.204	237.25	0.666	248.50	0.036
203.58	0.311	214.83	0.422	226.08	0.211	237.33	0.658	248.58	0.035
203.67	0.319	214.92	0.415	226.17	0.218	237.42	0.649	248.67	0.034
203.75	0.327	215.00	0.409	226.25	0.226	237.50	0.641	248.75	0.033
203.83	0.335	215.08	0.402	226.33	0.234	237.58	0.633	248.83	0.032
203.92	0.343	215.17	0.395	226.42	0.242	237.67	0.624	248.92	0.032
204.00	0.351	215.25	0.389	226.50	0.250	237.75	0.616	249.00	0.031
204.08	0.360	215.33	0.382	226.58	0.259	237.83	0.608	249.08	0.030
204.17	0.368	215.42	0.375	226.67	0.267	237.92	0.599	249.17	0.029
204.25	0.376	215.50	0.369	226.75	0.276	238.00	0.591	249.25	0.028
204.33	0.385	215.58	0.363	226.83	0.284	238.08	0.582	249.33	0.027
204.42	0.393	215.67	0.356	226.92	0.293	238.17	0.574	249.42	0.026
204.50	0.401	215.75	0.350	227.00	0.302	238.25	0.566	249.50	0.026
204.58	0.410	215.83	0.344	227.08	0.311	238.33	0.557	249.58	0.025
204.67	0.418	215.92	0.338	227.17	0.320	238.42	0.549	249.67	0.024
204.75	0.427	216.00	0.331	227.25	0.330	238.50	0.540	249.75	0.023
204.83	0.435	216.08	0.325	227.33	0.339	238.58	0.532	249.83	0.023
204.92	0.444	216.17	0.319	227.42	0.349	238.67	0.524	249.92	0.022
205.00	0.452	216.25	0.314	227.50	0.358	238.75	0.516	250.00	0.021
205.08	0.461	216.33	0.308	227.58	0.368	238.83	0.507	250.08	0.020
205.17	0.469	216.42	0.302	227.67	0.378	238.92	0.499	250.17	0.020
205.25	0.477	216.50	0.296	227.75	0.388	239.00	0.491	250.25	0.019
205.33	0.486	216.58	0.291	227.83	0.398	239.08	0.483	250.33	0.019
205.42	0.494	216.67	0.285	227.92	0.408	239.17	0.475	250.42	0.018
205.50	0.502	216.75	0.280	228.00	0.418	239.25	0.467	250.50	0.017
205.58	0.510	216.83	0.274	228.08	0.428	239.33	0.459	250.58	0.017
205.67	0.518	216.92	0.269	228.17	0.438	239.42	0.451	250.67	0.016
205.75	0.526	217.00	0.264	228.25	0.449	239.50	0.444	250.75	0.016
205.83	0.534	217.08	0.258	228.33	0.459	239.58	0.436	250.83	0.015
205.92	0.542	217.17	0.253	228.42	0.469	239.67	0.428	250.92	0.015
206.00	0.550	217.25	0.248	228.50	0.479	239.75	0.421	251.00	0.014
206.08	0.558	217.33	0.243	228.58	0.490	239.83	0.413	251.08	0.014
206.17	0.566	217.42	0.238	228.67	0.500	239.92	0.406	251.17	0.013
206.25	0.573	217.50	0.234	228.75	0.510	240.00	0.399	251.25	0.013
206.33	0.580	217.58	0.229	228.83	0.520	240.08	0.391	251.33	0.012
206.42	0.588	217.67	0.224	228.92	0.531	240.17	0.384	251.42	0.012
206.50	0.595	217.75	0.220	229.00	0.541	240.25	0.377	251.50	0.011
206.58	0.602	217.83	0.215	229.08	0.551	240.33	0.370	251.58	0.011
206.67	0.608	217.92	0.211	229.17	0.562	240.42	0.363	251.67	0.011
206.75	0.615	218.00	0.206	229.25	0.572	240.50	0.356	251.75	0.010
206.83	0.622	218.08	0.202	229.33	0.582	240.58	0.349	251.83	0.010
206.92	0.629	218.17	0.198	229.42	0.592	240.67	0.343	251.92	0.009
207.00	0.635	218.25	0.193	229.50	0.602	240.75	0.336	252.00	0.009
207.08	0.642	218.33	0.189	229.58	0.611	240.83	0.330	252.08	0.009
207.17	0.648	218.42	0.185	229.67	0.621	240.92	0.323	252.17	0.008
207.25	0.654	218.50	0.181	229.75	0.631	241.00	0.317	252.25	0.008
207.33	0.659	218.58	0.177	229.83	0.641	241.08	0.311	252.33	0.008
207.42	0.665	218.67	0.174	229.92	0.650	241.17	0.305	252.42	0.007
207.50	0.670	218.75	0.170	230.00	0.660	241.25	0.299	252.50	0.007
207.58	0.675	218.83	0.166	230.08	0.669	241.33	0.293	252.58	0.007
207.67	0.680	218.92	0.163	230.17	0.679	241.42	0.287	252.67	0.006
207.75	0.685	219.00	0.159	230.25	0.688	241.50	0.281	252.75	0.006
207.83	0.690	219.08	0.155	230.33	0.697	241.58	0.275	252.83	0.006
207.92	0.694	219.17	0.152	230.42	0.705	241.67	0.270	252.92	0.006
208.00	0.699	219.25	0.149	230.50	0.714	241.75	0.264	253.00	0.005
208.08	0.703	219.33	0.145	230.58	0.722	241.83	0.259	253.08	0.005
208.17	0.707	219.42	0.142	230.67	0.731	241.92	0.253	253.17	0.005
208.25	0.711	219.50	0.139	230.75	0.739	242.00	0.248	253.25	0.005
208.33	0.714	219.58	0.136	230.83	0.747	242.08	0.243	253.33	0.004
208.42	0.718	219.67	0.133	230.92	0.755	242.17	0.238	253.42	0.004
208.50	0.721	219.75	0.130	231.00	0.763	242.25	0.233	253.50	0.004
208.58	0.723	219.83	0.127	231.08	0.771	242.33	0.228	253.58	0.004
208.67	0.726	219.92	0.124	231.17	0.778	242.42	0.223	253.67	0.004
208.75	0.728	220.00	0.121	231.25	0.785	242.50	0.218	253.75	0.003
208.83	0.730	220.08	0.118	231.33	0.792	242.58	0.213	253.83	0.003
208.92	0.732	220.17	0.116	231.42	0.799	242.67	0.209	253.92	0.003
209.00	0.735	220.25	0.113	231.50	0.805	242.75	0.204	254.00	0.003
209.08	0.736	220.33	0.110	231.58	0.811	242.83	0.200	254.08	0.003
209.17	0.738	220.42	0.108	231.67	0.817	242.92	0.195	254.17	0.003
209.25	0.739	220.50	0.105	231.75	0.823	243.00	0.191	254.25	0.002
209.33	0.740	220.58	0.103	231.83	0.829	243.08	0.187	254.33	0.002
209.42	0.740	220.67	0.100	231.92	0.835	243.17	0.183	254.42	0.002
209.50	0.740	220.75	0.098	232.00	0.840	243.25	0.179	254.50	0.002
209.58	0.740	220.83	0.096	232.08	0.845	243.33	0.175	254.58	0.002
209.67	0.740	220.92	0.093	232.17	0.850	243.42	0.171	254.67	0.002
209.75	0.739	221.00	0.091	232.25	0.855	243.50	0.167	254.75	0.002
209.83	0.739	221.08	0.089	232.33	0.859	243.58	0.163	254.83	0.002
209.92	0.738	221.17	0.087	232.42	0.863	243.67	0.160	254.92	0.001
210.00	0.737	221.25	0.085	232.50	0.866	243.75	0.156	255.00	0.001
210.08	0.736	221.33	0.083	232.58	0.870	243.83	0.152	255.08	0.001
210.17	0.734	221.42	0.081	232.67	0.873	243.92	0.149	255.17	0.001
210.25	0.733	221.50	0.079	232.75	0.875	244.00	0.146	255.25	0.001
210.33	0.730	221.58	0.077	232.83	0.878	244.08	0.142	255.33	0.001
210.42	0.728	221.67	0.075	232.92	0.881	244.17	0.139	255.42	0.001
210.50	0.725	221.75	0.073	233.00	0.883	244.25	0.136	255.50	0.001
210.58	0.722	221.83	0.071	233.08	0.885	244.33	0.133	255.58	0.001
210.67	0.719	221.92	0.070	233.17	0.887	244.42	0.130	255.67	0.001
210.75	0.715	222.00	0.068	233.25	0.888	244.50	0.127	255.75	0.001
210.83	0.711	222.08	0.066	233.33	0.889	244.58	0.124	255.83	0.001
210.92	0.708	222.17	0.065	233.42	0.890	244.67	0.121	255.92	0.000
211.00	0.704	222.25	0.064	233.50	0.890	244.75	0.118	256.00	0.000
211.08	0.700	222.33	0.064	233.58	0.890	244.83	0.115	256.08	0.000
211.17	0.696	222.42	0.063	233.67	0.889	244.92	0.112	256.17	0.000
211.25	0.691	222.50	0.063	233.75	0.889	245.00	0.110	256.25	0.000
211.33	0.687	222.58	0.063	233.83	0.888	245.08	0.107	256.33	0.000
211.42	0.683	222.67	0.063	233.92	0.887	245.17	0.104	256.42	0.000
211.50	0.678	222.75	0.064	234.00	0.886	245.25	0.102	256.50	0.000
211.58	0.673	222.83	0.064	234.08	0.885	245.33	0.099	256.58	0.000
211.67	0.668	222.92	0.064	234.17	0.883	245.42	0.097	256.67	0.000
211.75	0.663	223.00	0.065	234.25	0.881	245.50	0.095	256.75	0.000
211.83	0.658	223.08	0.065	234.33	0.878	245.58	0.092	256.83	0.000
211.92	0.653	223.17	0.066	234.42	0.875	245.67	0.090	256.92	0.000
212.00	0.647	223.25	0.067	234.50	0.872	245.75	0.088	257.00	0.000
212.08	0.642	223.33	0.068	234.58	0.868	245.83	0.086	257.08	0.000
212.17	0.636	223.42	0.070	234.67	0.864	245.92	0.084	257.17	0.000
212.25	0.630	223.50	0.071	234.75	0.860	246.00	0.082	257.25	0.000
212.33	0.625	223.58	0.073	234.83	0.855	246.08	0.080	257.33	0.000
212.42	0.619	223.67	0.075	234.92	0.851	246.17	0.078	257.42	0.000
212.50	0.613	223.75	0.078	235.00	0.846	246.25	0.076	257.50	0.000
212.58	0.606	223.83	0.080	235.08	0.841	246.33	0.074	257.58	0.000
212.67	0.600	223.92	0.082	235.17	0.836	246.42	0.072	257.67	0.000
212.75	0.594	224.00	0.084	235.25	0.831	246.50	0.070	257.75	0.000
212.83	0.587	224.08	0.087	235.33	0.826	246.58	0.068	257.83	0.000
212.92	0.581	224.17	0.090	235.42	0.821	246.67	0.066	257.92	0.000
213.00	0.574	224.25	0.093	235.50	0.815	246.75	0.065	258.00	0.000
213.08	0.567	224.33	0.096	235.58	0.809	246.83	0.063	258.08	0.000
213.17	0.561	224.42	0.100	235.67	0.804	246.92	0.061	258.17	0.000
213.25	0.554	224.50	0.104	235.75	0.797	247.00	0.060	258.25	0.000
213.33	0.547	224.58	0.108	235.83	0.791	247.08	0.058	258.33	0.000
213.42	0.540	224.67	0.112	235.92	0.785	247.17	0.057	258.42	0.000
213.50	0.533	224.75	0.116	236.00	0.778	247.25	0.055	258.50	0.000
213.58	0.526	224.83	0.121	236.08	0.772	247.33	0.054	258.58	0.000
213.67	0.519	224.92	0.126	236.17	0.765	247.42	0.052	258.67	0.000

VG1-2 (VG SPRING)



Hydrograph Statistics:

Legend	Filename & Comment	Time Step (min)	Drainage Area (ha)	Peak Flow (cms)	Time to Peak (hrs)	Runoff Volume (mm)	Runoff Volume (cu.m)	Duration of flow (hrs)	Average flow (cms)
	H-VG1-2.100 : VG1-2	5.00	384.50	5.235	113.500	250.98	9.650E+05	259.333	1.034

Hydrograph Table:

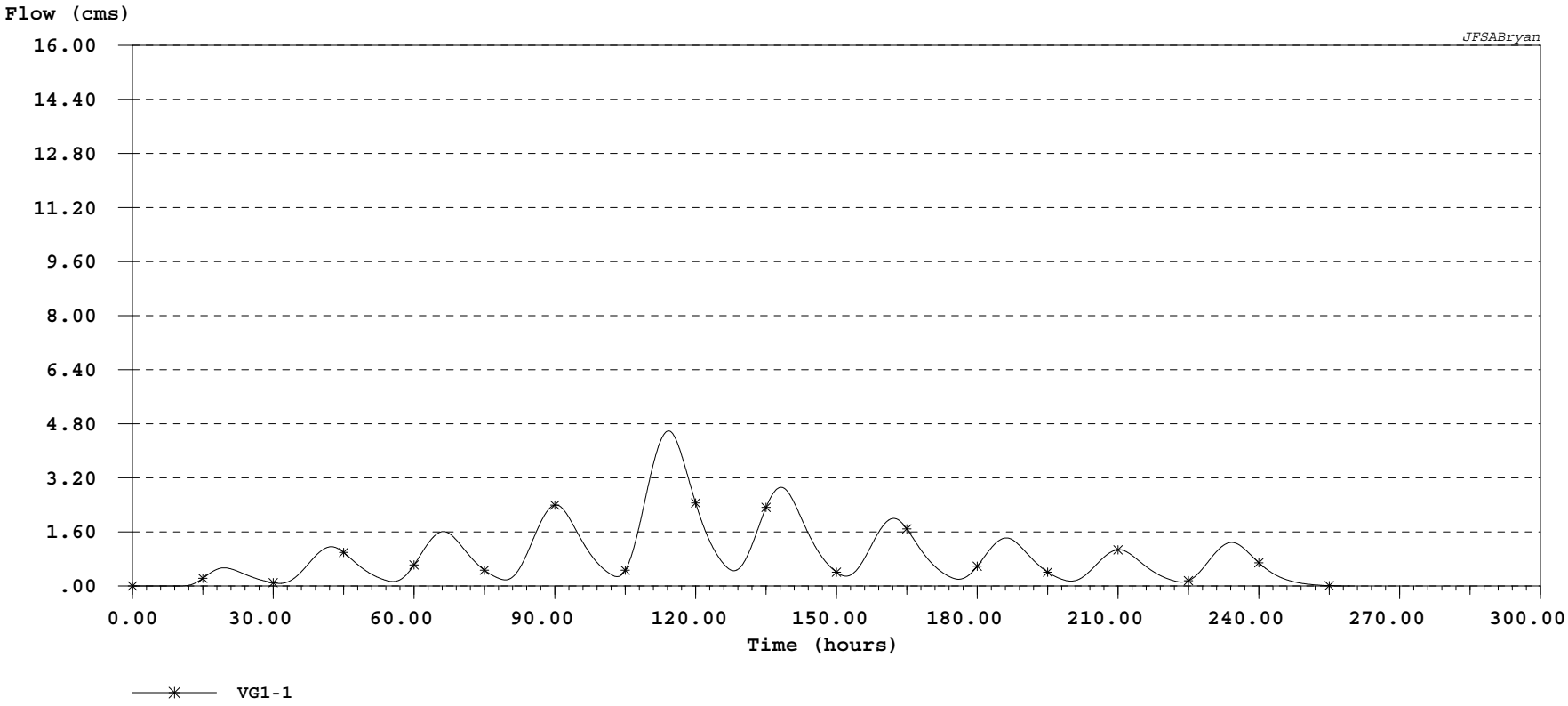
Hydrograph Filename : Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSPRI~1\H-VG1-2.100
Comment in file : VG1-2

TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
0.00	0.000	11.25	0.029	22.50	0.441	33.75	0.256	45.00	1.032	56.25	0.195	67.50	1.679	78.75	0.201	90.00	2.723
0.08	0.000	11.33	0.032	22.58	0.436	33.83	0.267	45.08	1.021	56.33	0.201	67.58	1.666	78.83	0.200	90.08	2.717
0.17	0.000	11.42	0.036	22.67	0.430	33.92	0.277	45.17	1.009	56.42	0.209	67.67	1.653	78.92	0.200	90.17	2.711
0.25	0.000	11.50	0.039	22.75	0.425	34.00	0.288	45.25	0.998	56.50	0.217	67.75	1.640	79.00	0.200	90.25	2.704
0.33	0.000	11.58	0.043	22.83	0.420	34.08	0.299	45.33	0.986	56.58	0.225	67.83	1.626	79.08	0.200	90.33	2.697
0.42	0.000	11.67	0.047	22.92	0.415	34.17	0.310	45.42	0.975	56.67	0.234	67.92	1.612	79.17	0.202	90.42	2.688
0.50	0.000	11.75	0.052	23.00	0.409	34.25	0.322	45.50	0.964	56.75	0.243	68.00	1.597	79.25	0.204	90.50	2.678
0.58	0.000	11.83	0.056	23.08	0.404	34.33	0.333	45.58	0.952	56.83	0.253	68.08	1.583	79.33	0.206	90.58	2.667
0.67	0.000	11.92	0.061	23.17	0.399	34.42	0.345	45.67	0.941	56.92	0.263	68.17	1.568	79.42	0.209	90.67	2.655
0.75	0.000	12.00	0.066	23.25	0.394	34.50	0.357	45.75	0.929	57.00	0.274	68.25	1.553	79.50	0.213	90.75	2.643
0.83	0.000	12.08	0.071	23.33	0.389	34.58	0.370	45.83	0.918	57.08	0.285	68.33	1.538	79.58	0.218	90.83	2.629
0.92	0.000	12.17	0.077	23.42	0.383	34.67	0.382	45.92	0.906	57.17	0.296	68.42	1.523	79.67	0.224	90.92	2.615
1.00	0.000	12.25	0.082	23.50	0.378	34.75	0.395	46.00	0.895	57.25	0.308	68.50	1.508	79.75	0.230	91.00	2.600
1.08	0.000	12.33	0.088	23.58	0.373	34.83	0.408	46.08	0.884	57.33	0.320	68.58	1.493	79.83	0.236	91.08	2.584
1.17	0.000	12.42	0.095	23.67	0.368	34.92	0.421	46.17	0.872	57.42	0.333	68.67	1.477	79.92	0.244	91.17	2.568
1.25	0.000	12.50	0.101	23.75	0.363	35.00	0.435	46.25	0.861	57.50	0.346	68.75	1.462	80.00	0.252	91.25	2.551
1.33	0.000	12.58	0.107	23.83	0.358	35.08	0.448	46.33	0.850	57.58	0.360	68.83	1.446	80.08	0.260	91.33	2.533
1.42	0.000	12.67	0.114	23.92	0.353	35.17	0.462	46.42	0.839	57.67	0.374	68.92	1.430	80.17	0.270	91.42	2.514
1.50	0.000	12.75	0.121	24.00	0.348	35.25	0.476	46.50	0.828	57.75	0.388	69.00	1.414	80.25	0.280	91.50	2.496
1.58	0.000	12.83	0.128	24.08	0.343	35.33	0.490	46.58	0.816	57.83	0.403	69.08	1.399	80.33	0.291	91.58	2.476
1.67	0.000	12.92	0.136	24.17	0.338	35.42	0.504	46.67	0.805	57.92	0.418	69.17	1.383	80.42	0.302	91.67	2.456
1.75	0.000	13.00	0.143	24.25	0.333	35.50	0.518	46.75	0.794	58.00	0.433	69.25	1.367	80.50	0.314	91.75	2.436
1.83	0.000	13.08	0.151	24.33	0.328	35.58	0.533	46.83	0.784	58.08	0.449	69.33	1.351	80.58	0.327	91.83	2.415
1.92	0.000	13.17	0.159	24.42	0.324	35.67	0.547	46.92	0.773	58.17	0.465	69.42	1.335	80.67	0.341	91.92	2.394
2.00	0.000	13.25	0.167	24.50	0.319	35.75	0.562	47.00	0.762	58.25	0.481	69.50	1.319	80.75	0.355	92.00	2.373
2.08	0.000	13.33	0.175	24.58	0.314	35.83	0.577	47.08	0.751	58.33	0.498	69.58	1.304	80.83	0.370	92.08	2.351
2.17	0.000	13.42	0.184	24.67	0.309	35.92	0.592	47.17	0.740	58.42	0.515	69.67	1.288	80.92	0.386	92.17	2.330
2.25	0.000	13.50	0.192	24.75	0.305	36.00	0.607	47.25	0.730	58.50	0.532	69.75	1.272	81.00	0.402	92.25	2.307
2.33	0.000	13.58	0.201	24.83	0.300	36.08	0.622	47.33	0.719	58.58	0.550	69.83	1.256	81.08	0.419	92.33	2.285
2.42	0.000	13.67	0.210	24.92	0.295	36.17	0.637	47.42	0.709	58.67	0.567	69.92	1.241	81.17	0.437	92.42	2.262
2.50	0.000	13.75	0.219	25.00	0.291	36.25	0.652	47.50	0.698	58.75	0.586	70.00	1.225	81.25	0.455	92.50	2.240
2.58	0.000	13.83	0.228	25.08	0.286	36.33	0.667	47.58	0.688	58.83	0.604	70.08	1.209	81.33	0.473	92.58	2.217
2.67	0.000	13.92	0.237	25.17	0.282	36.42	0.683	47.67	0.678	58.92	0.623	70.17	1.194	81.42	0.493	92.67	2.194
2.75	0.000	14.00	0.246	25.25	0.277	36.50	0.698	47.75	0.668	59.00	0.642	70.25	1.178	81.50	0.513	92.75	2.171
2.83	0.000	14.08	0.255	25.33	0.273	36.58	0.713	47.83	0.658	59.08	0.661	70.33	1.163	81.58	0.533	92.83	2.147
2.92	0.000	14.17	0.265	25.42	0.269	36.67	0.728	47.92	0.648	59.17	0.680	70.42	1.147	81.67	0.555	92.92	2.124
3.00	0.000	14.25	0.274	25.50	0.264	36.75	0.744	48.00	0.638	59.25	0.699	70.50	1.132	81.75	0.576	93.00	2.100
3.08	0.000	14.33	0.284	25.58	0.260	36.83	0.759	48.08	0.628	59.33	0.719	70.58	1.116	81.83	0.599	93.08	2.077
3.17	0.000	14.42	0.293	25.67	0.256	36.92	0.774	48.17	0.618	59.42	0.739	70.67	1.101	81.92	0.622	93.17	2.053
3.25	0.000	14.50	0.303	25.75	0.252	37.00	0.790	48.25	0.609	59.50	0.759	70.75	1.086	82.00	0.645	93.25	2.030
3.33	0.000	14.58	0.312	25.83	0.247	37.08	0.805	48.33	0.599	59.58	0.779	70.83	1.071	82.08	0.669	93.33	2.006
3.42	0.000	14.67	0.322	25.92	0.243	37.17	0.820	48.42	0.590	59.67	0.800	70.92	1.056	82.17	0.693	93.42	1.983
3.50	0.000	14.75	0.332	26.00	0.239	37.25	0.835	48.50	0.580	59.75	0.820	71.00	1.041	82.25	0.718	93.50	1.959
3.58	0.000	14.83	0.341	26.08	0.235	37.33	0.850	48.58	0.571	59.83	0.841	71.08	1.026	82.33	0.743	93.58	1.935
3.67	0.000	14.92	0.351	26.17	0.231	37.42	0.865	48.67	0.562	59.92	0.861	71.17	1.012	82.42	0.769	93.67	1.912
3.75	0.000	15.00	0.360	26.25	0.227	37.50	0.880	48.75	0.553	60.00	0.882	71.25	0.997	82.50	0.795	93.75	1.888
3.83	0.000	15.08	0.370	26.33	0.224	37.58	0.895	48.83	0.544	60.08	0.903	71.33	0.983	82.58	0.822	93.83	1.865
3.92	0.000	15.17	0.380	26.42	0.220	37.67	0.910	48.92	0.535	60.17	0.924	71.42	0.968	82.67	0.849	93.92	1.842
4.00	0.000	15.25	0.389	26.50	0.216	37.75	0.925	49.00	0.526	60.25	0.945	71.50	0.954	82.75	0.876	94.00	1.818
4.08	0.000	15.33	0.399	26.58	0.212	37.83	0.939	49.08	0.517	60.33	0.966	71.58	0.940	82.83	0.904	94.08	1.795
4.17	0.000	15.42	0.408	26.67	0.208	37.92	0.953	49.17	0.509	60.42	0.987	71.67	0.926	82.92	0.932	94.17	1.772
4.25	0.000	15.50	0.417	26.75	0.205	38.00	0.968	49.25	0.500	60.50	1.008	71.75	0.912	83.00	0.960	94.25	1.749
4.33	0.000	15.58	0.426	26.83	0.201	38.08	0.982	49.33	0.492	60.58	1.029	71.83	0.898	83.08	0.989	94.33	1.725
4.42	0.000	15.67	0.435	26.92	0.198	38.17	0.996	49.42	0.483	60.67	1.050	71.92	0.884	83.17	1.018	94.42	1.703
4.50	0.000	15.75	0.444	27.00	0.194	38.25	1.010	49.50	0.475	60.75	1.071	72.00	0.871	83.25	1.048	94.50	1.680
4.58	0.000	15.83	0.453	27.08	0.191	38.33	1.023	49.58	0.467	60.83	1.092	72.08	0.857	83.33	1.077	94.58	1.657
4.67	0.000	15.92	0.461	27.17	0.187	38.42	1.037	49.67	0.459	60.92	1.113	72.17	0.844	83.42	1.107	94.67	1.634
4.75	0.000	16.00	0.470	27.25	0.184	38.50	1.050	49.75	0.451	61.00	1.134	72.25	0.831	83.50	1.137	94.75	1.612
4.83	0.000	16.08	0.478	27.33	0.181	38.58	1.063	49.83	0.443	61.08	1.155	72.33	0.818	83.58	1.168	94.83	1.589
4.92	0.000	16.17	0.487	27.42	0.177	38.67	1.076	49.92	0.436	61.17	1.176	72.42	0.805	83.67	1.198	94.92	1.567
5.00	0.000	16.25	0.495	27.50	0.174	38.75	1.088	50.00	0.428	61.25	1.197	72.50	0.792	83.75	1.229	95.00	1.545
5.08	0.000	16.33	0.503	27.58	0.171	38.83	1.100	50.08	0.421	61.33	1.217	72.58	0.779	83.83	1.260	95.08	1.523
5.17	0.000	16.42	0.510	27.67	0.168	38.92	1.113	50.17	0.413	61.42	1.237	72.67	0.766	83.92	1.291	95.17	1.501
5.25	0.000	16.50	0.518	27.75	0.165	39.00	1.124	50.25	0.406	61.50	1.258	72.75	0.754	84.00	1.322	95.25	1.480
5.33	0.000	16.58	0.525	27.83	0.162	39.08	1.136	50.33	0.399	61.58	1.278	72.83	0.742	84.08	1.354	95.33	1.458
5.42	0.000	16.67	0.532	27.92	0.159	39.17	1.147	50.42	0.391	61.67	1.298	72.92	0.729	84.17	1.385	95.42	1.437
5.50	0.000	16.75	0.539	28.00	0.156	39.25	1.159	50.50	0.384	61.75	1.317	73.00	0.717	84.25	1.416	95.50	1.415
5.58	0.000	16.83	0.546	28.08	0.153	39.33	1.169	50.58	0.377	61.83	1.337	73.08	0.705	84.33	1.448	95.58	1.394
5.67	0.000	16.92	0.552	28.17	0.150	39.42	1.180	50.67	0.371	61.92	1.356	73.17	0.694	84.42	1.479	95.67	1.373
5.75	0.000	17.00	0.558	28.25	0.147	39.50	1.190	50.75	0.364	62.00	1.375	73.25	0.682	84.50	1.511	95.75	1.353
5.83	0.000	17.08	0.564	28.33	0.144	39.58	1.200	50.83	0.357	62.08	1.394	73.33	0.670	84.58	1.542	95.83	1.332
5.92	0.000	17.17	0.570	28.42	0.142	39.67	1.209	50.92	0.351	62.17	1.413	73.42	0.659	84.67	1.574	95.92	1.312
6.00	0.000	17.25	0.575	28.50	0.139	39.75	1.219	51.00	0.344	62.25	1.431	73.50	0.648	84.75	1.605	96.00	1.292
6.08	0.000	17.33	0.581	28.58	0.136	39.83	1.227	51.08	0.338	62.33	1.449	73.58	0.637	84.83	1.636	96.08	1.272
6.17	0.000	17.42	0.585	28.67	0.134	39.92	1.236	51.17	0.332	62.42	1.467	73.67	0.626	84.92	1.668	96.17	1.252
6.25	0.000	17.50	0.590	28.75	0.131	40.00	1.244	51.25	0.325	62.50	1.485	73.75	0.615	85.00	1.699	96.25	1.232
6.33	0.000	17.58	0.594	28.83	0.129	40.08	1.252	51.33	0.319	62.58	1.502	73.83	0.604	85.08	1.730	96.33	1.213
6.42	0.000	17.67	0.598	28.92	0.126	40.17	1.260	51.42	0.313	62.67	1.519	73.92	0.594	85.17	1.761	96.42	1.193
6.50	0.000	17.75	0.602	29.00	0.124	40.25	1.267	51.50	0.307	62.75	1.536	74.00	0.583	85.25	1.792	96.50	1.174
6.58	0.000	17.83	0.605	29.08	0.121	40.33	1.274	51.58	0.302	62.83	1.552	74.08	0.573	85.33	1.822	96.58	1.155
6.67	0.000	17.92	0.608	29.17	0.119	40.42	1.280	51.67	0.296	62.92	1.568	74.17	0.563	85.42	1.852	96.67	1.137
6.75	0.000	18.00	0.611	29.25	0.116	40.50	1.286	51.75	0.290	63.00	1.583	74.25	0.553	85.50	1.882	96.75	1.118
6.83	0.000	18.08	0.614	29.33	0.114	40.58	1.292	51.83	0.285	63.08	1.599	74.33	0.543	85.58	1.912	96.83	1.100
6.92	0.000	18.17	0.616	29.42	0.112	40.67	1.297	51.92	0.279	63.17	1.614	74.42	0.533	85.67	1.942	96.92	1.082
7.00	0.000	18.25	0.618	29.50	0.110	40.75	1.302	52.00	0.274	63.25	1.628	74.50	0.523	85.75	1.971	97.00	1.064
7.08	0.000	18.33	0.619	29.58	0.108	40.83	1.307	52.08	0.268	63.33	1.642	74.58	0.514	85.83	2.000	97.08	1.046
7.17	0.000	18.42	0.621	29.67	0.105	40.92	1.311	52.17	0.263	63.42	1.656	74.67	0.505	85.92	2.029	97.17	1.029
7.25	0.000	18.50	0.621	29.75	0.103	41.00	1.314	52.25	0.258	63.50	1.669	74.75	0.495	86.00	2.057	97.25	1.011
7.33	0.000	18.58	0.622	29.83	0.101	41.08	1.318	52.33	0.253	63.58	1.682	74.83	0.486	86.08	2.085	97.33	0.994
7.42	0.000	18.67	0.622	29.92	0.099	41.17	1.321	52.42	0.248	63.67	1.694	74.92	0.477	86.17	2.113	97.42	0.977
7.50	0.000	18.75	0.622	30.00	0.097	41.25	1.323	52.50	0.243	63.75	1.706	75.00	0.469	86.25	2.140	97.50	0.961
7.58	0.000	18.83	0.621	30.08	0.095	41.33	1.325	52.58	0.239	63.83	1.717	75.08	0.460	86.33	2.167	97.58	0.944
7.67	0.000	18.92	0.620	30.17	0.093	41.42	1.327	52.67	0.234	63.92	1.728	75.17	0.451	86.42	2.193	97.67	0.928
7.75	0.000	19.00	0.619	30.25	0.092	41.50	1.328	52.75	0.229	64.00	1.739	75.25	0.443	86.50	2.219	97.75	0.912
7.83	0.000	19.08	0.618	30.33	0.090	41.58	1.328	52.83	0.225	64.08	1.749	75.33	0.435	86.58	2.245	97.83	0.896
7.92	0.000	19.17	0.616	30.42	0.089	41.67	1.329	52.92	0.220	64.17	1.758	75.42	0.426	86.67	2.270	97.92	0.880
8.00	0.000	19.25	0.614	30.50	0.088	41.75	1.328	53.00	0.216	64.25	1.767	75.50	0.418	86.75	2.294	98.00	0.865
8.08	0.000	19.33	0.612	30.58	0.087	41.83	1.328	53.08	0.211	64.33	1.776	75.58	0.410	86.83	2.318	98.08	0.850
8.17	0.000	19.42	0.609	30.67	0.086	41.92	1.327	53.17	0.207	64.42	1.784	75.67	0.403	86.92	2.342	98.17	0.834
8.25	0.000	19.50	0.607	30.75	0.086	42.00	1.325	53.25	0.203	64.50	1.791	75.75	0.395	87.00	2.365	98.25	0.820
8.33	0.000	19.58	0.604	30.83	0.085	42.08	1.323	53.33	0.199	64.58	1.798	75.83	0.387	87.08	2.387	98.33	0.805
8.42	0.000	19.67	0.601	30.92	0.085	42.17	1.321	53.42	0.195	64.67	1.805	75.92	0.380	87.17	2.409	98.42	0.790
8.50	0.000	19.75	0.598	31.00	0.085	42.25	1.318	53.50	0.191	64.75	1.810	76.00	0.372	87.25	2.431	98.50	0.776
8.58	0.000	19.83	0.594	31.08	0.086	42.33	1.315	53.58	0.187	64.83	1.816	76.08	0.365	87.33	2.451	98.58	0.762
8.67	0.000	19.92	0.591	31.17	0.086	42.42	1.311	53.67	0.183	64.92	1.820	76.17	0.358	87.42	2.471	98.67	0.748
8.75	0.000	20.00	0.587	31.25	0.087	42.50	1.306	53.75	0.179	65.00	1.825	76.25	0.351	87.50	2.491	98.75	0.735
8.83	0.000	20.08	0.583	31.33	0.089	42.58	1.302	53.83	0.176	65.08	1.828	76.33	0.344	87.58	2.509	98.83	0.721
8.92	0.000	20.17	0.579	31.42	0.090	42.67	1.296	53.92	0.172	65.17	1.832	76.42	0.338	87.67	2.527	98.92	0.708
9.00	0.000	20.25	0.575	31.50	0.092	42.75	1.291	54.00	0.169	65.25	1.834	76.50	0.331	87.75	2.545	99.00	0.695
9.08	0.000	20.33	0.571	31.58	0.094	42.83	1.285	54.08	0.165	65.33	1.836	76.58	0.324	87.83	2.561	99.08	0.682
9.17	0.000	20.42	0.566	31.67	0.097	42.92	1.278	54.17	0.162	65.42	1.837	76.67	0.318	87.92	2.577	99.17	0.669
9.25	0.000	20.50	0.562	31.75	0.099	43.00	1.271	54.25	0.159	65.50	1.838	76.75	0.312	88.00	2.593	99.25	0.657
9.33	0.000	20.58	0.557	31.83	0.102	43.08	1.264	54.33	0.156	65.58	1.838	76.83	0.305	88.08	2.607	99.33	0.644
9.42	0.000	20.67	0.553	31.92	0.106	43.17	1.256	54.42	0.154	65.67	1.838	76.92	0.299	88.17	2.621	99.42	0.632
9.50	0.001	20.75	0.548	32.00	0.109	43.25	1.248	54.50	0.151	65.75	1.837	77.00	0.293	88.25	2.635	99.50	0.620
9.58	0.001	20.83	0.543	32.08	0.113	43.33	1.239	54.58	0.150	65.83	1.835	77.08	0.287	88.33	2.647	99.58	0.608
9.67	0.001	20.92	0.539	32.17	0.117	43.42	1.231	54.67	0.148	65.92	1.833	77.17	0.282	88.42	2.659	99.67	0.597
9.75	0.001	21.00	0.534	32.25	0.122	43.50	1.222	54.75	0.147	66.00	1.830	77.25	0.276	88.50	2.670	99.75	0.585
9.83	0.002	21.08	0.529	32.33	0.127	43.58	1.213	54.83	0.146	66.08	1.827	77.33	0.270	88.58	2.680	99.83	0.574
9.92	0.002	21.17	0.524	32.42	0.132	43.67	1.203	54.92	0.146	66.17	1.823	77.42	0.265	88.67	2.689	99.92	0.563
10.00	0.003	21.25	0.519	32.50	0.137	43.75	1.194	55.00	0.145	66.25	1.818	77.50	0.259	88.75	2.697	100.00	0.552
10.08	0.004	21.33	0.514	32.58	0.143	43.83	1.184	55.08	0.145	66.33	1.813	77.58	0.254	88.83	2.705	100.08	0.541
10.17	0.004	21.42	0.509	32.67	0.149	43.92	1.174	55.17	0.146	66.42	1.807	77.67	0.249	88.92	2.711	100.17	0.531
10.25	0.005	21.50	0.504	32.75	0.156	44.00	1.163	55.25	0.147	66.50	1.801	77.75	0.244	89.00	2.717	100.25	0.521
10.33	0.006	21.58	0.499	32.83	0.163	44.08	1.153	55.33	0.148	66.58	1.794	77.83	0.239	89.08	2.723	100.33	0.510
10.42	0.008	21.67	0.493	32.92	0.170	44.17	1.143	55.42	0.150	66.67	1.786	77.92	0.234	89.17	2.727	100.42	0.500
10.50	0.009	21.75	0.488	33.00	0.177	44.25	1.132	55.50	0.153	66.75	1.778	78.00	0.229	89.25	2.731	100.50	0.491
10.58	0.010	21.83	0.483	33.08	0.185	44.33	1.121	55.58	0.156	66.83	1.769	78.08	0.224	89.33	2.733	100.58	0.481
10.67	0.012	21.92	0.478	33.17	0.193	44.42	1.110	55.67	0.159	66.92	1.759	78.17	0.220	89.42	2.735	100.67	0.471
10.75	0.014	22.00	0.473	33.25	0.201	44.50	1.099	55.75	0.163	67.00	1.749	78.25	0.216	89.50	2.736	100.75	0.462
10.83	0.016	22.08	0.467	33.33	0.209	44.58	1.088	55.83	0.167	67.08	1.739	78.33	0.212	89.58	2.736	100.83	0.453
10.92	0.018	22.17	0.462	33.42	0.218	44.67	1.077	55.92	0.172	67.17	1.728	78.42	0.209	89.67	2.735	100.92	0.444
11.00	0.021	22.25	0.457	33.50	0.227	44.75	1.066	56.00	0.177	67.25	1.716	78.50	0.206	89.75	2.733	101.00	0.435
11.08	0.023	22.33	0.452	33.58	0.237	44.83	1.055	56.08	0.182	67.33	1.704	78.58	0.204	89.83	2.730	101.08	0.426
11.17	0.026	22.42	0.446	33.67	0.246	44.92	1.043	56.17	0.188	67.42	1.692	78.67	0.202	89.92	2.727	101.17	0.417

TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
101.25	0.409	112.50	5.109	123.75	1.118	135.00	2.903	146.25	0.994	157.50	1.599	168.75	0.930	180.00	0.815	191.25	0.875
101.33	0.401	112.58	5.128	123.83	1.097	135.08	2.929	146.33	0.977	157.58	1.623	168.83	0.915	180.08	0.833	191.33	0.862
101.42	0.393	112.67	5.145	123.92	1.076	135.17	2.955	146.42	0.959	157.67	1.647	168.92	0.900	180.17	0.851	191.42	0.849
101.50	0.385	112.75	5.161	124.00	1.055	135.25	2.980	146.50	0.942	157.75	1.671	169.00	0.885	180.25	0.869	191.50	0.837
101.58	0.377	112.83	5.176	124.08	1.035	135.33	3.004	146.58	0.925	157.83	1.694	169.08	0.870	180.33	0.887	191.58	0.824
101.67	0.369	112.92	5.189	124.17	1.014	135.42	3.027	146.67	0.908	157.92	1.717	169.17	0.856	180.42	0.905	191.67	0.812
101.75	0.361	113.00	5.200	124.25	0.995	135.50	3.050	146.75	0.891	158.00	1.740	169.25	0.841	180.50	0.923	191.75	0.800
101.83	0.354	113.08	5.210	124.33	0.975	135.58	3.072	146.83	0.875	158.08	1.763	169.33	0.827	180.58	0.941	191.83	0.788
101.92	0.347	113.17	5.219	124.42	0.956	135.67	3.093	146.92	0.859	158.17	1.785	169.42	0.813	180.67	0.959	191.92	0.776
102.00	0.339	113.25	5.225	124.50	0.937	135.75	3.113	147.00	0.843	158.25	1.807	169.50	0.799	180.75	0.977	192.00	0.764
102.08	0.333	113.33	5.230	124.58	0.919	135.83	3.132	147.08	0.827	158.33	1.829	169.58	0.785	180.83	0.995	192.08	0.752
102.17	0.326	113.42	5.234	124.67	0.901	135.92	3.151	147.17	0.812	158.42	1.850	169.67	0.772	180.92	1.013	192.17	0.740
102.25	0.320	113.50	5.235	124.75	0.883	136.00	3.169	147.25	0.797	158.50	1.871	169.75	0.758	181.00	1.031	192.25	0.728
102.33	0.315	113.58	5.235	124.83	0.865	136.08	3.186	147.33	0.782	158.58	1.892	169.83	0.745	181.08	1.048	192.33	0.717
102.42	0.311	113.67	5.233	124.92	0.848	136.17	3.202	147.42	0.767	158.67	1.912	169.92	0.732	181.17	1.066	192.42	0.706
102.50	0.307	113.75	5.229	125.00	0.831	136.25	3.218	147.50	0.752	158.75	1.932	170.00	0.719	181.25	1.084	192.50	0.694
102.58	0.305	113.83	5.224	125.08	0.814	136.33	3.232	147.58	0.738	158.83	1.951	170.08	0.706	181.33	1.101	192.58	0.683
102.67	0.303	113.92	5.217	125.17	0.798	136.42	3.245	147.67	0.724	158.92	1.970	170.17	0.694	181.42	1.119	192.67	0.672
102.75	0.302	114.00	5.209	125.25	0.781	136.50	3.258	147.75	0.710	159.00	1.988	170.25	0.682	181.50	1.136	192.75	0.661
102.83	0.303	114.08	5.199	125.33	0.766	136.58	3.269	147.83	0.696	159.08	2.007	170.33	0.669	181.58	1.153	192.83	0.650
102.92	0.304	114.17	5.187	125.42	0.750	136.67	3.280	147.92	0.683	159.17	2.024	170.42	0.657	181.67	1.170	192.92	0.640
103.00	0.306	114.25	5.174	125.50	0.735	136.75	3.289	148.00	0.670	159.25	2.041	170.50	0.645	181.75	1.187	193.00	0.629
103.08	0.309	114.33	5.158	125.58	0.720	136.83	3.298	148.08	0.657	159.33	2.058	170.58	0.634	181.83	1.203	193.08	0.618
103.17	0.313	114.42	5.141	125.67	0.705	136.92	3.305	148.17	0.644	159.42	2.074	170.67	0.622	181.92	1.220	193.17	0.608
103.25	0.318	114.50	5.122	125.75	0.690	137.00	3.312	148.25	0.632	159.50	2.090	170.75	0.611	182.00	1.236	193.25	0.598
103.33	0.325	114.58	5.102	125.83	0.676	137.08	3.318	148.33	0.619	159.58	2.105	170.83	0.600	182.08	1.252	193.33	0.588
103.42	0.333	114.67	5.079	125.92	0.662	137.17	3.323	148.42	0.607	159.67	2.119	170.92	0.589	182.17	1.268	193.42	0.578
103.50	0.342	114.75	5.055	126.00	0.649	137.25	3.327	148.50	0.595	159.75	2.133	171.00	0.578	182.25	1.284	193.50	0.568
103.58	0.352	114.83	5.029	126.08	0.635	137.33	3.329	148.58	0.583	159.83	2.146	171.08	0.567	182.33	1.299	193.58	0.558
103.67	0.364	114.92	5.002	126.17	0.622	137.42	3.331	148.67	0.572	159.92	2.159	171.17	0.556	182.42	1.315	193.67	0.549
103.75	0.377	115.00	4.973	126.25	0.610	137.50	3.331	148.75	0.560	160.00	2.172	171.25	0.546	182.50	1.329	193.75	0.539
103.83	0.392	115.08	4.943	126.33	0.598	137.58	3.331	148.83	0.549	160.08	2.183	171.33	0.536	182.58	1.344	193.83	0.530
103.92	0.408	115.17	4.911	126.42	0.587	137.67	3.329	148.92	0.538	160.17	2.194	171.42	0.526	182.67	1.358	193.92	0.520
104.00	0.424	115.25	4.878	126.50	0.577	137.75	3.327	149.00	0.527	160.25	2.205	171.50	0.516	182.75	1.372	194.00	0.511
104.08	0.442	115.33	4.844	126.58	0.567	137.83	3.323	149.08	0.517	160.33	2.215	171.58	0.506	182.83	1.386	194.08	0.502
104.17	0.462	115.42	4.809	126.67	0.558	137.92	3.318	149.17	0.506	160.42	2.224	171.67	0.496	182.92	1.400	194.17	0.493
104.25	0.482	115.50	4.773	126.75	0.550	138.00	3.313	149.25	0.496	160.50	2.233	171.75	0.487	183.00	1.413	194.25	0.484
104.33	0.504	115.58	4.736	126.83	0.543	138.08	3.306	149.33	0.486	160.58	2.241	171.83	0.477	183.08	1.426	194.33	0.476
104.42	0.528	115.67	4.698	126.92	0.536	138.17	3.298	149.42	0.476	160.67	2.248	171.92	0.468	183.17	1.438	194.42	0.467
104.50	0.552	115.75	4.659	127.00	0.530	138.25	3.289	149.50	0.466	160.75	2.254	172.00	0.459	183.25	1.451	194.50	0.459
104.58	0.579	115.83	4.619	127.08	0.525	138.33	3.279	149.58	0.457	160.83	2.260	172.08	0.450	183.33	1.463	194.58	0.450
104.67	0.606	115.92	4.579	127.17	0.520	138.42	3.268	149.67	0.448	160.92	2.265	172.17	0.441	183.42	1.474	194.67	0.442
104.75	0.635	116.00	4.538	127.25	0.517	138.50	3.256	149.75	0.438	161.00	2.270	172.25	0.433	183.50	1.485	194.75	0.434
104.83	0.665	116.08	4.497	127.33	0.514	138.58	3.243	149.83	0.429	161.08	2.274	172.33	0.424	183.58	1.496	194.83	0.426
104.92	0.696	116.17	4.455	127.42	0.513	138.67	3.228	149.92	0.420	161.17	2.277	172.42	0.416	183.67	1.506	194.92	0.418
105.00	0.728	116.25	4.412	127.50	0.512	138.75	3.213	150.00	0.412	161.25	2.280	172.50	0.408	183.75	1.516	195.00	0.411
105.08	0.762	116.33	4.369	127.58	0.512	138.83	3.196	150.08	0.403	161.33	2.282	172.58	0.400	183.83	1.525	195.08	0.403
105.17	0.796	116.42	4.326	127.67	0.514	138.92	3.179	150.17	0.395	161.42	2.283	172.67	0.392	183.92	1.535	195.17	0.395
105.25	0.832	116.50	4.283	127.75	0.516	139.00	3.160	150.25	0.387	161.50	2.283	172.75	0.384	184.00	1.543	195.25	0.388
105.33	0.869	116.58	4.239	127.83	0.519	139.08	3.141	150.33	0.380	161.58	2.283	172.83	0.376	184.08	1.552	195.33	0.381
105.42	0.907	116.67	4.195	127.92	0.523	139.17	3.120	150.42	0.373	161.67	2.282	172.92	0.369	184.17	1.560	195.42	0.374
105.50	0.947	116.75	4.150	128.00	0.528	139.25	3.099	150.50	0.366	161.75	2.280	173.00	0.361	184.25	1.567	195.50	0.366
105.58	0.987	116.83	4.106	128.08	0.534	139.33	3.077	150.58	0.360	161.83	2.278	173.08	0.354	184.33	1.574	195.58	0.359
105.67	1.029	116.92	4.061	128.17	0.540	139.42	3.055	150.67	0.355	161.92	2.274	173.17	0.347	184.42	1.581	195.67	0.353
105.75	1.072	117.00	4.016	128.25	0.548	139.50	3.032	150.75	0.350	162.00	2.270	173.25	0.340	184.50	1.587	195.75	0.346
105.83	1.116	117.08	3.971	128.33	0.557	139.58	3.008	150.83	0.345	162.08	2.266	173.33	0.333	184.58	1.592	195.83	0.339
105.92	1.160	117.17	3.926	128.42	0.567	139.67	2.984	150.92	0.341	162.17	2.261	173.42	0.326	184.67	1.598	195.92	0.333
106.00	1.206	117.25	3.881	128.50	0.577	139.75	2.960	151.00	0.338	162.25	2.255	173.50	0.320	184.75	1.602	196.00	0.326
106.08	1.253	117.33	3.836	128.58	0.589	139.83	2.934	151.08	0.335	162.33	2.248	173.58	0.313	184.83	1.606	196.08	0.320
106.17	1.300	117.42	3.791	128.67	0.601	139.92	2.909	151.17	0.332	162.42	2.240	173.67	0.307	184.92	1.610	196.17	0.314
106.25	1.348	117.50	3.745	128.75	0.615	140.00	2.883	151.25	0.330	162.50	2.232	173.75	0.300	185.00	1.614	196.25	0.308
106.33	1.398	117.58	3.700	128.83	0.629	140.08	2.856	151.33	0.329	162.58	2.223	173.83	0.294	185.08	1.616	196.33	0.302
106.42	1.448	117.67	3.655	128.92	0.644	140.17	2.830	151.42	0.329	162.67	2.213	173.92	0.288	185.17	1.619	196.42	0.296
106.50	1.499	117.75	3.610	129.00	0.660	140.25	2.803	151.50	0.329	162.75	2.202	174.00	0.282	185.25	1.621	196.50	0.290
106.58	1.551	117.83	3.565	129.08	0.677	140.33	2.775	151.58	0.329	162.83	2.191	174.08	0.276	185.33	1.622	196.58	0.284
106.67	1.603	117.92	3.521	129.17	0.695	140.42	2.748	151.67	0.331	162.92	2.179	174.17	0.271	185.42	1.623	196.67	0.278
106.75	1.657	118.00	3.476	129.25	0.713	140.50	2.720	151.75	0.333	163.00	2.166	174.25	0.265	185.50	1.623	196.75	0.273
106.83	1.711	118.08	3.431	129.33	0.732	140.58	2.692	151.83	0.335	163.08	2.153	174.33	0.260	185.58	1.623	196.83	0.268
106.92	1.766	118.17	3.387	129.42	0.753	140.67	2.664	151.92	0.339	163.17	2.139	174.42	0.256	185.67	1.622	196.92	0.262
107.00	1.821	118.25	3.343	129.50	0.774	140.75	2.636	152.00	0.342	163.25	2.124	174.50	0.251	185.75	1.621	197.00	0.257
107.08	1.877	118.33	3.299	129.58	0.795	140.83	2.608	152.08	0.347	163.33	2.109	174.58	0.247	185.83	1.619	197.08	0.252
107.17	1.933	118.42	3.255	129.67	0.818	140.92	2.579	152.17	0.352	163.42	2.094	174.67	0.243	185.92	1.617	197.17	0.247
107.25	1.990	118.50	3.211	129.75	0.841	141.00	2.551	152.25	0.358	163.50	2.078	174.75	0.240	186.00	1.614	197.25	0.242
107.33	2.048	118.58	3.167	129.83	0.866	141.08	2.522	152.33	0.364	163.58	2.062	174.83	0.237	186.08	1.611	197.33	0.237
107.42	2.106	118.67	3.124	129.92	0.890	141.17	2.494	152.42	0.371	163.67	2.045	174.92	0.234	186.17	1.607	197.42	0.232
107.50	2.164	118.75	3.081	130.00	0.916	141.25	2.465	152.50	0.379	163.75	2.029	175.00	0.232	186.25	1.603	197.50	0.227
107.58	2.223	118.83	3.038	130.08	0.942	141.33	2.436	152.58	0.387	163.83	2.011	175.08	0.230	186.33	1.598	197.58	0.223
107.67	2.282	118.92	2.996	130.17	0.969	141.42	2.408	152.67	0.396	163.92	1.994	175.17	0.228	186.42	1.592	197.67	0.218
107.75	2.341	119.00	2.953	130.25	0.996	141.50	2.379	152.75	0.406	164.00	1.976	175.25	0.227	186.50	1.586	197.75	0.214
107.83	2.401	119.08	2.911	130.33	1.024	141.58	2.350	152.83	0.416	164.08	1.958	175.33	0.227	186.58	1.580	197.83	0.209
107.92	2.461	119.17	2.870	130.42	1.053	141.67	2.322	152.92	0.427	164.17	1.940	175.42	0.226	186.67	1.573	197.92	0.205
108.00	2.521	119.25	2.828	130.50	1.082	141.75	2.293	153.00	0.438	164.25	1.921	175.50	0.227	186.75	1.565	198.00	0.201
108.08	2.582	119.33	2.787	130.58	1.112	141.83	2.264	153.08	0.450	164.33	1.902	175.58	0.227	186.83	1.557	198.08	0.196
108.17	2.642	119.42	2.746	130.67	1.142	141.92	2.236	153.17	0.462	164.42	1.884	175.67	0.228	186.92	1.549	198.17	0.192
108.25	2.703	119.50	2.706	130.75	1.173	142.00	2.208	153.25	0.475	164.50	1.865	175.75	0.230	187.00	1.540	198.25	0.189
108.33	2.764	119.58	2.665	130.83	1.205	142.08	2.179	153.33	0.489	164.58	1.845	175.83	0.232	187.08	1.530	198.33	0.185
108.42	2.825	119.67	2.625	130.92	1.237	142.17	2.151	153.42	0.503	164.67	1.826	175.92	0.234	187.17	1.520	198.42	0.182
108.50	2.885	119.75	2.586	131.00	1.269	142.25	2.123	153.50	0.518	164.75	1.807	176.00	0.237	187.25	1.510	198.50	0.179
108.58	2.946	119.83	2.546	131.08	1.302	142.33	2.095	153.58	0.533	164.83	1.787	176.08	0.240	187.33	1.499	198.58	0.176
108.67	3.007	119.92	2.507	131.17	1.335	142.42	2.067	153.67	0.549	164.92	1.768	176.17	0.244	187.42	1.488	198.67	0.173
108.75	3.067	120.00	2.469	131.25	1.368	142.50	2.039	153.75	0.565	165.00	1.748	176.25	0.248	187.50	1.477	198.75	0.171
108.83	3.127	120.08	2.431	131.33	1.402	142.58	2.012	153.83	0.582	165.08	1.729	176.33	0.253	187.58	1.466	198.83	0.169
108.92	3.188	120.17	2.393	131.42	1.437	142.67	1.984	153.92	0.599	165.17	1.709	176.42	0.258	187.67	1.454	198.92	0.167
109.00	3.248	120.25	2.355	131.50	1.471	142.75	1.957	154.00	0.617	165.25	1.689	176.50	0.264	187.75	1.442	199.00	0.165
109.08	3.308	120.33	2.318	131.58	1.506	142.83	1.930	154.08	0.635	165.33	1.670	176.58	0.270	187.83	1.430	199.08	0.164
109.17	3.367	120.42	2.281	131.67	1.541	142.92	1.902	154.17	0.654	165.42	1.650	176.67	0.276	187.92	1.417	199.17	0.163
109.25	3.426	120.50	2.244	131.75	1.577	143.00	1.876	154.25	0.673	165.50	1.630	176.75	0.283	188.00	1.404	199.25	0.162
109.33	3.485	120.58	2.208	131.83	1.612	143.08	1.849	154.33	0.692	165.58	1.611	176.83	0.291	188.08	1.392	199.33	0.162
109.42	3.543	120.67	2.173	131.92	1.648	143.17	1.822	154.42	0.712	165.67	1.591	176.92	0.298	188.17	1.379	199.42	0.162
109.50	3.601	120.75	2.137	132.00	1.684	143.25	1.796	154.50	0.733	165.75	1.572	177.00	0.306	188.25	1.365	199.50	0.163
109.58	3.658	120.83	2.102	132.08	1.721	143.33	1.770	154.58	0.753	165.83	1.552	177.08	0.315	188.33	1.352	199.58	0.163
109.67	3.715	120.92	2.068	132.17	1.757	143.42	1.744	154.67	0.774	165.92	1.533	177.17	0.324	188.42	1.339	199.67	0.164
109.75	3.771	121.00	2.033	132.25	1.794	143.50	1.718	154.75	0.796	166.00	1.513	177.25	0.333	188.50	1.325	199.75	0.166
109.83	3.827	121.08	2.000	132.33	1.830	143.58	1.692	154.83	0.818	166.08	1.494	177.33	0.343	188.58	1.312	199.83	0.167
109.92	3.882	121.17	1.966	132.42	1.867	143.67	1.667	154.92	0.840	166.17	1.474	177.42	0.353	188.67	1.298	199.92	0.169
110.00	3.937	121.25	1.933	132.50	1.903	143.75	1.642	155.00	0.862	166.25	1.455	177.50	0.364	188.75	1.284	200.00	0.172
110.08	3.991	121.33	1.900	132.58	1.940	143.83	1.617	155.08	0.885	166.33	1.436	177.58	0.375	188.83	1.270	200.08	0.174
110.17	4.044	121.42	1.868	132.67	1.977	143.92	1.592	155.17	0.908	166.42	1.417	177.67	0.386	188.92	1.257	200.17	0.177
110.25	4.096	121.50	1.836	132.75	2.013	144.00	1.568	155.25	0.931	166.50	1.398	177.75	0.398	189.00	1.243	200.25	0.181
110.33	4.148	121.58	1.805	132.83	2.050	144.08	1.543	155.33	0.954	166.58	1.379	177.83	0.410	189.08	1.229	200.33	0.184
110.42	4.198	121.67	1.773	132.92	2.086	144.17	1.519	155.42	0.978	166.67	1.360	177.92	0.422	189.17	1.215	200.42	0.188
110.50	4.248	121.75	1.743	133.00	2.123	144.25	1.495	155.50	1.002	166.75	1.341	178.00	0.435	189.25	1.201	200.50	0.193
110.58	4.297	121.83	1.712	133.08	2.159	144.33	1.472	155.58	1.026	166.83	1.322	178.08	0.448	189.33	1.187	200.58	0.197
110.67	4.345	121.92	1.682	133.17	2.195	144.42	1.448	155.67	1.050	166.92	1.304	178.17	0.461	189.42	1.173	200.67	0.202
110.75	4.391	122.00	1.653	133.25	2.231	144.50	1.425	155.75	1.075	167.00	1.286	178.25	0.475	189.50	1.159	200.75	0.208
110.83	4.437	122.08	1.623	133.33	2.267	144.58	1.402	155.83	1.100	167.08	1.267	178.33	0.489	189.58	1.145	200.83	0.213
110.92	4.482	122.17	1.595	133.42	2.302	144.67	1.380	155.92	1.124	167.17	1.249	178.42	0.503	189.67	1.131	200.92	0.219
111.00	4.527	122.25	1.566	133.50	2.337	144.75	1.357	156.00	1.149	167.25	1.231	178.50	0.518	189.75	1.117	201.00	0.226
111.08	4.570	122.33	1.538	133.58	2.372	144.83	1.335	156.08	1.174	167.33	1.213	178.58	0.532	189.83	1.103	201.08	0.232
111.17	4.612	122.42	1.511	133.67	2.407	144.92	1.313	156.17	1.199	167.42	1.195	178.67	0.548	189.92	1.089	201.17	0.239
111.25	4.652	122.50	1.483	133.75	2.441	145.00	1.291	156.25	1.225	167.50	1.178	178.75	0.563	190.00	1.075	201.25	0.246
111.33	4.692	122.58	1.456	133.83	2.475	145.08	1.270	156.33	1.250	167.58	1.160	178.83	0.578	190.08	1.062	201.33	0.254
111.42	4.730	122.67	1.430	133.92	2.509	145.17	1.248	156.42	1.275	167.67	1.143	178.92	0.594	190.17	1.048	201.42	0.262
111.50	4.767	122.75	1.404	134.00	2.542	145.25	1.227	156.50	1.300	167.75	1.125	179.00	0.610	190.25	1.034	201.50	0.270
111.58	4.803	122.83	1.378	134.08	2.575	145.33	1.207	156.58	1.326	167.83	1.108	179.08	0.626	190.33	1.021	201.58	0.278
111.67	4.838	122.92	1.352	134.17	2.607	145.42	1.186	156.67	1.351	167.92	1.091	179.17	0.643	190.42	1.007	201.67	0.287
111.75	4.871	123.00	1.327	134.25	2.640	145.50	1.166	156.75	1.376	168.00	1.074	179.25	0.659	190.50	0.993	201.75	0.296
111.83	4.902	123.08	1.303	134.33	2.671	145.58	1.146	156.83	1.401	168.08	1.058	179.33	0.676	190.58	0.980	201.83	0.305
111.92	4.933	123.17	1.278	134.42	2.702	145.67	1.126	156.92	1.426	168.17	1.041	179.42	0.693	190.67	0.967	201.92	0.314
112.00	4.963	123.25	1.255	134.50	2.732	145.75	1.106	157.00	1.451	168.25	1.025	179.50	0.710	190.75	0.953	202.00	0.324
112.08	4.991	123.33	1.231	134.58	2.762	145.83	1.087	157.08	1.476	168.33	1.009	179.58	0.727	190.83	0.940	202.08	0.334
112.17	5.017	123.42	1.208	134.67	2.791	145.92	1.068	157.17	1.501	168.42	0.993	179.67	0.745	190.92	0.927	202.17	0.344
112.25	5.043	123.50	1.185	134.75	2.820	146.00	1.049	157.25	1.526	168.50	0.977	179.75	0.762	191.00	0.914	202.25	0.355
112.33	5.066	123.58	1.162	134.83	2.848	146.08	1.031	157.33	1.551	168.58	0.961	179.83	0.780	191.08	0.901	202.33	0.365
112.42	5.088	123.67	1.140	134.92	2.876	146.17	1.013	157.42	1.575	168.67	0.946	179.92	0.797	191.17	0.888	202.42	0.376

TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
202.50	0.387	213.75	0.843	225.00	0.231	236.25	1.239	247.50	0.124
202.58	0.398	213.83	0.833	225.08	0.240	236.33	1.227	247.58	0.121
202.67	0.410	213.92	0.822	225.17	0.249	236.42	1.215	247.67	0.118
202.75	0.421	214.00	0.812	225.25	0.258	236.50	1.203	247.75	0.116
202.83	0.433	214.08	0.801	225.33	0.268	236.58	1.190	247.83	0.113
202.92	0.445	214.17	0.791	225.42	0.279	236.67	1.178	247.92	0.111
203.00	0.457	214.25	0.781	225.50	0.289	236.75	1.165	248.00	0.108
203.08	0.470	214.33	0.770	225.58	0.300	236.83	1.153	248.08	0.106
203.17	0.482	214.42	0.760	225.67	0.311	236.92	1.140	248.17	0.104
203.25	0.495	214.50	0.750	225.75	0.323	237.00	1.128	248.25	0.101
203.33	0.508	214.58	0.740	225.83	0.335	237.08	1.115	248.33	0.099
203.42	0.520	214.67	0.729	225.92	0.347	237.17	1.102	248.42	0.097
203.50	0.533	214.75	0.719	226.00	0.359	237.25	1.090	248.50	0.095
203.58	0.546	214.83	0.709	226.08	0.372	237.33	1.077	248.58	0.092
203.67	0.560	214.92	0.699	226.17	0.385	237.42	1.064	248.67	0.090
203.75	0.573	215.00	0.690	226.25	0.398	237.50	1.052	248.75	0.088
203.83	0.586	215.08	0.680	226.33	0.412	237.58	1.039	248.83	0.086
203.92	0.600	215.17	0.670	226.42	0.425	237.67	1.026	248.92	0.084
204.00	0.613	215.25	0.660	226.50	0.439	237.75	1.014	249.00	0.082
204.08	0.627	215.33	0.651	226.58	0.454	237.83	1.001	249.08	0.080
204.17	0.640	215.42	0.641	226.67	0.468	237.92	0.988	249.17	0.078
204.25	0.654	215.50	0.632	226.75	0.483	238.00	0.976	249.25	0.077
204.33	0.667	215.58	0.622	226.83	0.498	238.08	0.963	249.33	0.075
204.42	0.681	215.67	0.613	226.92	0.513	238.17	0.951	249.42	0.073
204.50	0.695	215.75	0.604	227.00	0.528	238.25	0.938	249.50	0.071
204.58	0.708	215.83	0.595	227.08	0.543	238.33	0.926	249.58	0.070
204.67	0.722	215.92	0.585	227.17	0.559	238.42	0.914	249.67	0.068
204.75	0.736	216.00	0.576	227.25	0.574	238.50	0.901	249.75	0.066
204.83	0.749	216.08	0.567	227.33	0.590	238.58	0.889	249.83	0.065
204.92	0.763	216.17	0.559	227.42	0.606	238.67	0.877	249.92	0.063
205.00	0.776	216.25	0.550	227.50	0.622	238.75	0.865	250.00	0.062
205.08	0.790	216.33	0.541	227.58	0.639	238.83	0.853	250.08	0.060
205.17	0.803	216.42	0.533	227.67	0.655	238.92	0.841	250.17	0.059
205.25	0.817	216.50	0.524	227.75	0.671	239.00	0.829	250.25	0.057
205.33	0.830	216.58	0.516	227.83	0.688	239.08	0.817	250.33	0.056
205.42	0.843	216.67	0.507	227.92	0.704	239.17	0.806	250.42	0.054
205.50	0.856	216.75	0.499	228.00	0.721	239.25	0.794	250.50	0.053
205.58	0.869	216.83	0.491	228.08	0.738	239.33	0.782	250.58	0.052
205.67	0.882	216.92	0.483	228.17	0.755	239.42	0.771	250.67	0.050
205.75	0.895	217.00	0.475	228.25	0.771	239.50	0.760	250.75	0.049
205.83	0.907	217.08	0.467	228.33	0.788	239.58	0.748	250.83	0.048
205.92	0.920	217.17	0.459	228.42	0.805	239.67	0.737	250.92	0.046
206.00	0.932	217.25	0.451	228.50	0.822	239.75	0.726	251.00	0.045
206.08	0.944	217.33	0.444	228.58	0.839	239.83	0.715	251.08	0.044
206.17	0.956	217.42	0.436	228.67	0.855	239.92	0.704	251.17	0.043
206.25	0.968	217.50	0.429	228.75	0.872	240.00	0.693	251.25	0.042
206.33	0.980	217.58	0.421	228.83	0.889	240.08	0.682	251.33	0.041
206.42	0.991	217.67	0.414	228.92	0.906	240.17	0.672	251.42	0.040
206.50	1.003	217.75	0.407	229.00	0.922	240.25	0.661	251.50	0.038
206.58	1.014	217.83	0.400	229.08	0.939	240.33	0.651	251.58	0.037
206.67	1.025	217.92	0.393	229.17	0.955	240.42	0.640	251.67	0.036
206.75	1.035	218.00	0.386	229.25	0.972	240.50	0.630	251.75	0.035
206.83	1.046	218.08	0.379	229.33	0.988	240.58	0.620	251.83	0.034
206.92	1.056	218.17	0.372	229.42	1.004	240.67	0.610	251.92	0.033
207.00	1.066	218.25	0.366	229.50	1.020	240.75	0.600	252.00	0.032
207.08	1.076	218.33	0.359	229.58	1.036	240.83	0.590	252.08	0.032
207.17	1.085	218.42	0.353	229.67	1.052	240.92	0.580	252.17	0.031
207.25	1.094	218.50	0.346	229.75	1.067	241.00	0.571	252.25	0.030
207.33	1.103	218.58	0.340	229.83	1.083	241.08	0.561	252.33	0.029
207.42	1.112	218.67	0.334	229.92	1.098	241.17	0.552	252.42	0.028
207.50	1.120	218.75	0.328	230.00	1.113	241.25	0.543	252.50	0.027
207.58	1.129	218.83	0.322	230.08	1.128	241.33	0.533	252.58	0.026
207.67	1.136	218.92	0.316	230.17	1.143	241.42	0.524	252.67	0.026
207.75	1.144	219.00	0.310	230.25	1.157	241.50	0.515	252.75	0.025
207.83	1.151	219.08	0.304	230.33	1.172	241.58	0.506	252.83	0.024
207.92	1.158	219.17	0.298	230.42	1.186	241.67	0.498	252.92	0.023
208.00	1.165	219.25	0.293	230.50	1.200	241.75	0.489	253.00	0.023
208.08	1.171	219.33	0.287	230.58	1.213	241.83	0.481	253.08	0.022
208.17	1.177	219.42	0.282	230.67	1.226	241.92	0.472	253.17	0.021
208.25	1.183	219.50	0.277	230.75	1.239	242.00	0.464	253.25	0.021
208.33	1.188	219.58	0.271	230.83	1.252	242.08	0.456	253.33	0.020
208.42	1.193	219.67	0.266	230.92	1.265	242.17	0.448	253.42	0.019
208.50	1.197	219.75	0.261	231.00	1.277	242.25	0.440	253.50	0.019
208.58	1.202	219.83	0.256	231.08	1.289	242.33	0.432	253.58	0.018
208.67	1.206	219.92	0.251	231.17	1.300	242.42	0.424	253.67	0.017
208.75	1.209	220.00	0.246	231.25	1.312	242.50	0.416	253.75	0.017
208.83	1.212	220.08	0.241	231.33	1.323	242.58	0.409	253.83	0.016
208.92	1.215	220.17	0.237	231.42	1.333	242.67	0.401	253.92	0.016
209.00	1.218	220.25	0.232	231.50	1.343	242.75	0.394	254.00	0.015
209.08	1.220	220.33	0.228	231.58	1.353	242.83	0.387	254.08	0.015
209.17	1.222	220.42	0.223	231.67	1.363	242.92	0.380	254.17	0.014
209.25	1.223	220.50	0.219	231.75	1.372	243.00	0.373	254.25	0.014
209.33	1.224	220.58	0.214	231.83	1.381	243.08	0.366	254.33	0.013
209.42	1.225	220.67	0.210	231.92	1.389	243.17	0.359	254.42	0.013
209.50	1.225	220.75	0.206	232.00	1.397	243.25	0.352	254.50	0.012
209.58	1.225	220.83	0.202	232.08	1.405	243.33	0.345	254.58	0.012
209.67	1.224	220.92	0.198	232.17	1.413	243.42	0.339	254.67	0.011
209.75	1.223	221.00	0.194	232.25	1.419	243.50	0.333	254.75	0.011
209.83	1.222	221.08	0.190	232.33	1.426	243.58	0.326	254.83	0.010
209.92	1.220	221.17	0.186	232.42	1.432	243.67	0.320	254.92	0.010
210.00	1.218	221.25	0.182	232.50	1.438	243.75	0.314	255.00	0.010
210.08	1.216	221.33	0.179	232.58	1.443	243.83	0.308	255.08	0.009
210.17	1.213	221.42	0.175	232.67	1.448	243.92	0.302	255.17	0.009
210.25	1.209	221.50	0.172	232.75	1.452	244.00	0.296	255.25	0.008
210.33	1.206	221.58	0.168	232.83	1.456	244.08	0.290	255.33	0.008
210.42	1.202	221.67	0.165	232.92	1.459	244.17	0.285	255.42	0.008
210.50	1.197	221.75	0.161	233.00	1.463	244.25	0.279	255.50	0.007
210.58	1.192	221.83	0.158	233.08	1.465	244.33	0.274	255.58	0.007
210.67	1.187	221.92	0.155	233.17	1.468	244.42	0.268	255.67	0.007
210.75	1.181	222.00	0.151	233.25	1.469	244.50	0.263	255.75	0.006
210.83	1.175	222.08	0.148	233.33	1.471	244.58	0.258	255.83	0.006
210.92	1.169	222.17	0.145	233.42	1.471	244.67	0.253	255.92	0.006
211.00	1.162	222.25	0.143	233.50	1.472	244.75	0.248	256.00	0.006
211.08	1.155	222.33	0.140	233.58	1.472	244.83	0.243	256.08	0.005
211.17	1.147	222.42	0.138	233.67	1.471	244.92	0.238	256.17	0.005
211.25	1.140	222.50	0.136	233.75	1.470	245.00	0.233	256.25	0.005
211.33	1.132	222.58	0.134	233.83	1.468	245.08	0.228	256.33	0.005
211.42	1.123	222.67	0.133	233.92	1.466	245.17	0.224	256.42	0.004
211.50	1.115	222.75	0.131	234.00	1.464	245.25	0.219	256.50	0.004
211.58	1.106	222.83	0.130	234.08	1.461	245.33	0.215	256.58	0.004
211.67	1.097	222.92	0.130	234.17	1.458	245.42	0.210	256.67	0.004
211.75	1.088	223.00	0.129	234.25	1.454	245.50	0.206	256.75	0.003
211.83	1.079	223.08	0.129	234.33	1.449	245.58	0.202	256.83	0.003
211.92	1.070	223.17	0.130	234.42	1.445	245.67	0.198	256.92	0.003
212.00	1.060	223.25	0.130	234.50	1.439	245.75	0.194	257.00	0.003
212.08	1.050	223.33	0.131	234.58	1.433	245.83	0.190	257.08	0.003
212.17	1.040	223.42	0.133	234.67	1.427	245.92	0.186	257.17	0.002
212.25	1.031	223.50	0.134	234.75	1.420	246.00	0.182	257.25	0.002
212.33	1.021	223.58	0.137	234.83	1.413	246.08	0.178	257.33	0.002
212.42	1.010	223.67	0.139	234.92	1.405	246.17	0.175	257.42	0.002
212.50	1.000	223.75	0.142	235.00	1.397	246.25	0.171	257.50	0.002
212.58	0.990	223.83	0.145	235.08	1.388	246.33	0.167	257.58	0.002
212.67	0.980	223.92	0.149	235.17	1.379	246.42	0.164	257.67	0.002
212.75	0.969	224.00	0.153	235.25	1.370	246.50	0.160	257.75	0.001
212.83	0.959	224.08	0.157	235.33	1.361	246.58	0.157	257.83	0.001
212.92	0.948	224.17	0.162	235.42	1.351	246.67	0.154	257.92	0.001
213.00	0.938	224.25	0.167	235.50	1.340	246.75	0.150	258.00	0.001
213.08	0.927	224.33	0.173	235.58	1.330	246.83	0.147	258.08	0.001
213.17	0.917	224.42	0.179	235.67	1.319	246.92	0.144	258.17	0.001
213.25	0.906	224.50	0.185	235.75	1.308	247.00	0.141	258.25	0.001
213.33	0.896	224.58	0.192	235.83	1.297	247.08	0.138	258.33	0.001
213.42	0.885	224.67	0.199	235.92	1.286	247.17	0.135	258.42	0.001
213.50	0.875	224.75	0.206	236.00	1.274	247.25	0.132	258.50	0.001
213.58	0.864	224.83	0.214	236.08	1.263	247.33	0.129	258.58	0.001
213.67	0.854	224.92	0.222	236.17	1.251	247.42	0.127	258.67	0.000

VG1-1 (VG SPRING)



Hydrograph Statistics:

Legend	Filename & Comment	Time Step (min)	Drainage Area (ha)	Peak Flow (cms)	Time to Peak (hrs)	Runoff Volume (mm)	Runoff Volume (cu.m)	Duration of flow (hrs)	Average flow (cms)
——✳——	H-VG1-1.100 : VG1-1	5.00	336.70	4.588	114.250	250.81	8.445E+05	259.333	0.905

Hydrograph Table:

Hydrograph Filename : Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSPRI~1\H-VG1-1.100
Comment in file : VG1-1

TIME hrs	FLOW cms
0.00	0.000
0.08	0.000
0.17	0.000
0.25	0.000
0.33	0.000
0.42	0.000
0.50	0.000
0.58	0.000
0.67	0.000
0.75	0.000
0.83	0.000
0.92	0.000
1.00	0.000
1.08	0.000
1.17	0.000
1.25	0.000
1.33	0.000
1.42	0.000
1.50	0.000
1.58	0.000
1.67	0.000
1.75	0.000
1.83	0.000
1.92	0.000
2.00	0.000
2.08	0.000
2.17	0.000
2.25	0.000
2.33	0.000
2.42	0.000
2.50	0.000
2.58	0.000
2.67	0.000
2.75	0.000
2.83	0.000
2.92	0.000
3.00	0.000
3.08	0.000
3.17	0.000
3.25	0.000
3.33	0.000
3.42	0.000
3.50	0.000
3.58	0.000
3.67	0.000
3.75	0.000
3.83	0.000
3.92	0.000
4.00	0.000
4.08	0.000
4.17	0.000
4.25	0.000
4.33	0.000
4.42	0.000
4.50	0.000
4.58	0.000
4.67	0.000
4.75	0.000
4.83	0.000
4.92	0.000
5.00	0.000
5.08	0.000
5.17	0.000
5.25	0.000
5.33	0.000
5.42	0.000
5.50	0.000
5.58	0.000
5.67	0.000
5.75	0.000
5.83	0.000
5.92	0.000
6.00	0.000
6.08	0.000
6.17	0.000
6.25	0.000
6.33	0.000
6.42	0.000
6.50	0.000
6.58	0.000
6.67	0.000
6.75	0.000
6.83	0.000
6.92	0.000
7.00	0.000
7.08	0.000
7.17	0.000
7.25	0.000
7.33	0.000
7.42	0.000
7.50	0.000
7.58	0.000
7.67	0.000
7.75	0.000
7.83	0.000
7.92	0.000
8.00	0.000
8.08	0.000
8.17	0.000
8.25	0.000
8.33	0.000
8.42	0.000
8.50	0.000
8.58	0.000
8.67	0.000
8.75	0.000
8.83	0.000
8.92	0.000
9.00	0.000
9.08	0.000
9.17	0.000
9.25	0.000
9.33	0.000
9.42	0.000
9.50	0.000
9.58	0.000
9.67	0.000
9.75	0.000
9.83	0.000
9.92	0.000
10.00	0.000
10.08	0.000
10.17	0.000
10.25	0.000
10.33	0.000
10.42	0.000
10.50	0.001
10.58	0.001
10.67	0.001
10.75	0.002
10.83	0.002
10.92	0.002
11.00	0.003
11.08	0.004
11.17	0.005

TIME hrs	FLOW cms
11.25	0.006
11.33	0.007
11.42	0.008
11.50	0.009
11.58	0.011
11.67	0.013
11.75	0.015
11.83	0.017
11.92	0.019
12.00	0.021
12.08	0.024
12.17	0.026
12.25	0.029
12.33	0.033
12.42	0.036
12.50	0.039
12.58	0.043
12.67	0.047
12.75	0.051
12.83	0.056
12.92	0.060
13.00	0.065
13.08	0.070
13.17	0.075
13.25	0.080
13.33	0.086
13.42	0.091
13.50	0.097
13.58	0.103
13.67	0.109
13.75	0.116
13.83	0.122
13.92	0.129
14.00	0.136
14.08	0.143
14.17	0.150
14.25	0.158
14.33	0.165
14.42	0.173
14.50	0.180
14.58	0.188
14.67	0.196
14.75	0.204
14.83	0.212
14.92	0.220
15.00	0.228
15.08	0.236
15.17	0.245
15.25	0.253
15.33	0.261
15.42	0.270
15.50	0.278
15.58	0.287
15.67	0.295
15.75	0.303
15.83	0.312
15.92	0.320
16.00	0.328
16.08	0.337
16.17	0.345
16.25	0.353
16.33	0.361
16.42	0.369
16.50	0.377
16.58	0.385
16.67	0.392
16.75	0.400
16.83	0.407
16.92	0.415
17.00	0.422
17.08	0.429
17.17	0.436
17.25	0.442
17.33	0.449
17.42	0.455
17.50	0.461
17.58	0.467
17.67	0.473
17.75	0.479
17.83	0.484
17.92	0.489
18.00	0.494
18.08	0.498
18.17	0.503
18.25	0.507
18.33	0.511
18.42	0.515
18.50	0.518
18.58	0.521
18.67	0.524
18.75	0.526
18.83	0.529
18.92	0.531
19.00	0.533
19.08	0.534
19.17	0.535
19.25	0.536
19.33	0.537
19.42	0.537
19.50	0.537
19.58	0.537
19.67	0.537
19.75	0.537
19.83	0.536
19.92	0.535
20.00	0.534
20.08	0.532
20.17	0.531
20.25	0.529
20.33	0.527
20.42	0.525
20.50	0.522
20.58	0.520
20.67	0.517
20.75	0.515
20.83	0.512
20.92	0.509
21.00	0.505
21.08	0.502
21.17	0.499
21.25	0.495
21.33	0.491
21.42	0.488
21.50	0.484
21.58	0.480
21.67	0.476
21.75	0.472
21.83	0.467
21.92	0.463
22.00	0.459
22.08	0.454
22.17	0.450
22.25	0.445
22.33	0.441
22.42	0.436

TIME hrs	FLOW cms
22.50	0.432
22.58	0.427
22.67	0.422
22.75	0.418
22.83	0.413
22.92	0.408
23.00	0.403
23.08	0.398
23.17	0.394
23.25	0.389
23.33	0.384
23.42	0.379
23.50	0.374
23.58	0.369
23.67	0.365
23.75	0.360
23.83	0.355
23.92	0.350
24.00	0.345
24.08	0.341
24.17	0.336
24.25	0.331
24.33	0.326
24.42	0.322
24.50	0.317
24.58	0.312
24.67	0.308
24.75	0.303
24.83	0.299
24.92	0.294
25.00	0.290
25.08	0.285
25.17	0.281
25.25	0.277
25.33	0.272
25.42	0.268
25.50	0.264
25.58	0.259
25.67	0.255
25.75	0.251
25.83	0.247
25.92	0.243
26.00	0.239
26.08	0.235
26.17	0.231
26.25	0.227
26.33	0.223
26.42	0.219
26.50	0.216
26.58	0.212
26.67	0.208
26.75	0.205
26.83	0.201
26.92	0.198
27.00	0.194
27.08	0.191
27.17	0.187
27.25	0.184
27.33	0.181
27.42	0.177
27.50	0.174
27.58	0.171
27.67	0.168
27.75	0.165
27.83	0.162
27.92	0.159
28.00	0.156
28.08	0.153
28.17	0.150
28.25	0.147
28.33	0.144
28.42	0.142
28.50	0.139
28.58	0.136
28.67	0.134
28.75	0.131
28.83	0.129
28.92	0.126
29.00	0.124
29.08	0.121
29.17	0.119
29.25	0.116
29.33	0.114
29.42	0.112
29.50	0.110
29.58	0.108
29.67	0.105
29.75	0.103
29.83	0.101
29.92	0.099
30.00	0.097
30.08	0.095
30.17	0.093
30.25	0.091
30.33	0.090
30.42	0.088
30.50	0.087
30.58	0.085
30.67	0.084
30.75	0.082
30.83	0.081
30.92	0.080
31.00	0.079
31.08	0.079
31.17	0.078
31.25	0.078
31.33	0.077
31.42	0.077
31.50	0.077
31.58	0.078
31.67	0.078
31.75	0.079
31.83	0.080
31.92	0.081
32.00	0.082
32.08	0.084
32.17	0.085
32.25	0.087
32.33	0.090
32.42	0.092
32.50	0.095
32.58	0.098
32.67	0.101
32.75	0.104
32.83	0.108
32.92	0.112
33.00	0.116
33.08	0.120
33.17	0.125
33.25	0.130
33.33	0.135
33.42	0.140
33.50	0.146
33.58	0.152
33.67	0.158

TIME hrs	FLOW cms
33.75	0.164
33.83	0.171
33.92	0.178
34.00	0.185
34.08	0.193
34.17	0.200
34.25	0.208
34.33	0.216
34.42	0.225
34.50	0.233
34.58	0.242
34.67	0.251
34.75	0.261
34.83	0.270
34.92	0.280
35.00	0.290
35.08	0.300
35.17	0.311
35.25	0.321
35.33	0.332
35.42	0.343
35.50	0.354
35.58	0.365
35.67	0.377
35.75	0.388
35.83	0.400
35.92	0.412
36.00	0.424
36.08	0.436
36.17	0.449
36.25	0.461
36.33	0.474
36.42	0.486
36.50	0.499
36.58	0.512
36.67	0.525
36.75	0.538
36.83	0.551
36.92	0.564
37.00	0.577
37.08	0.591
37.17	0.604
37.25	0.617
37.33	0.631
37.42	0.644
37.50	0.657
37.58	0.671
37.67	0.684
37.75	0.697
37.83	0.711
37.92	0.724
38.00	0.737
38.08	0.750
38.17	0.763
38.25	0.776
38.33	0.789
38.42	0.802
38.50	0.815
38.58	0.827
38.67	0.840
38.75	0.852
38.83	0.865
38.92	0.877
39.00	0.889
39.08	0.901
39.17	0.912
39.25	0.924
39.33	0.935
39.42	0.946
39.50	0.957
39.58	0.968
39.67	0.978
39.75	0.988
39.83	0.999
39.92	1.008
40.00	1.018
40.08	1.027
40.17	1.036
40.25	1.045
40.33	1.054
40.42	1.062
40.50	1.070
40.58	1.078
40.67	1.085
40.75	1.092
40.83	1.099
40.92	1.105
41.00	1.111
41.08	1.117
41.17	1.123
41.25	1.128
41.33	1.133
41.42	1.137
41.50	1.141
41.58	1.145
41.67	1.148
41.75	1.151
41.83	1.154
41.92	1.156
42.00	1.158
42.08	1.160
42.17	1.161
42.25	1.162
42.33	1.162
42.42	1.162
42.50	1.162
42.58	1.161
42.67	1.160
42.75	1.158
42.83	1.156
42.92	1.154
43.00	1.151
43.08	1.148
43.17	1.145
43.25	1.141
43.33	1.136
43.42	1.132
43.50	1.127
43.58	1.122
43.67	1.116
43.75	1.110
43.83	1.104
43.92	1.098
44.00	1.091
44.08	1.084
44.17	1.077
44.25	1.070
44.33	1.062
44.42	1.054
44.50	1.046
44.58	1.038
44.67	1.029
44.75	1.021
44.83	1.012
44.92	1.003

TIME hrs	FLOW cms
45.00	0.994
45.08	0.985
45.17	0.975
45.25	0.966
45.33	0.956
45.42	0.946
45.50	0.937
45.58	0.927
45.67	0.917
45.75	0.907
45.83	0.897
45.92	0.887
46.00	0.877
46.08	0.866
46.17	0.856
46.25	0.846
46.33	0.836
46.42	0.825
46.50	0.815
46.58	0.805
46.67	0.795
46.75	0.784
46.83	0.774
46.92	0.764
47.00	0.754
47.08	0.743
47.17	0.733
47.25	0.723
47.33	0.713
47.42	0.703
47.50	0.693
47.58	0.683
47.67	0.673
47.75	0.663
47.83	0.654
47.92	0.644
48.00	0.634
48.08	0.625
48.17	0.615
48.25	0.606
48.33	0.597
48.42	0.587
48.50	0.578
48.58	0.569
48.67	0.560
48.75	0.551
48.83	0.542
48.92	0.533
49.00	0.525
49.08	0.516
49.17	0.508
49.25	0.499
49.33	0.491
49.42	0.483
49.50	0.474
49.58	0.466
49.67	0.458
49.75	0.451
49.83	0.443
49.92	0.435
50.00	0.428
50.08	0.420
50.17	0.413
50.25	0.405
50.33	0.398
50.42	0.391
50.50	0.384
50.58	0.377
50.67	0.370
50.75	0.364
50.83	0.357
50.92	0.351
51.00	0.344
51.08	0.338
51.17	0.331
51.25	0.325
51.33	0.319
51.42	0.313
51.50	0.307
51.58	0.301
51.67	0.296
51.75	0.290
51.83	0.285
51.92	0.279
52.00	0.274
52.08	0.268
52.17	0.263
52.25	0.258
52.33	0.253
52.42	0.248
52.50	0.243
52.58	0.239
52.67	0.234
52.75	0.229
52.83	0.225
52.92	0.220
53.00	0.216
53.08	0.211
53.17	0.207
53.25	0.203
53.33	0.199
53.42	0.195
53.50	0.191
53.58	0.187
53.67	0.183
53.75	0.179
53.83	0.176
53.92	0.172
54.00	0.169
54.08	0.165
54.17	0.162
54.25	0.158
54.33	0.155
54.42	0.152
54.50	0.150
54.58	0.147
54.67	0.144
54.75	0.142
54.83	0.140
54.92	0.138
55.00	0.136
55.08	0.135
55.17	0.134
55.25	0.133
55.33	0.132
55.42	0.131
55.50	0.131
55.58	0.131
55.67	0.132
55.75	0.132
55.83	0.134
55.92	0.135
56.00	0.136
56.08	0.138
56.17	0.141

TIME hrs	FLOW cms
56.25	0.143
56.33	0.146
56.42	0.150
56.50	0.153
56.58	0.158
56.67	0.162
56.75	0.167
56.83	0.172
56.92	0.178
57.00	0.184
57.08	0.190
57.17	0.196
57.25	0.204
57.33	0.211
57.42	0.219
57.50	0.227
57.58	0.235
57.67	0.244
57.75	0.254
57.83	0.263
57.92	0.273
58.00	0.284
58.08	0.294
58.17	0.305
58.25	0.317
58.33	0.329
58.42	0.341
58.50	0.353
58.58	0.366
58.67	0.379
58.75	0.392
58.83	0.406
58.92	0.420
59.00	0.434
59.08	0.448
59.17	0.463
59.25	0.478
59.33	0.494
59.42	0.509
59.50	0.525
59.58	0.541
59.67	0.557
59.75	0.574
59.83	0.590
59.92	0.607
60.00	0.624
60.08	0.641
60.17	0.658
60.25	0.676
60.33	0.694
60.42	0.711
60.50	0.729
60.58	0.747
60.67	0.765
60.75	0.783
60.83	0.802
60.92	0.820
61.00	0.838
61.08	0.856
61.17	0.875
61.25	0.893
61.33	0.912
61.42	0.930
61.50	0.948
61.58	0.967
61.67	0.985
61.75	1.003
61.83	1.021
61.92	1.039
62.00	1.057
62.08	1.075
62.17	1.093
62.25	1.111
62.33	1.128
62.42	1.146
62.50	1.163
62.58	1.180
62.67	1.197
62.75	1.213
62.83	1.230
62.92	1.246
63.00	1.262
63.08	1.278
63.17	1.293
63.25	1.309
63.33	1.324
63.42	1.338
63.50	1.353
63.58	1.367
63.67	1.381
63.75	1.394
63.83	1.407
63.92	1.420
64.00	1.433
64.08	1.445
64.17	1.457
64.25	1.468
64.33	1.479
64.42	1.490
64.50	1.500
64.58	1.510
64.67	1.519
64.75	1.528
64.83	1.537
64.92	1.545
65.00	1.552
65.08	1.560
65.17	1.566
65.25	1.573
65.33	1.578
65.42	1.584
65.50	1.589
65.58	1.593
65.67	1.597
65.75	1.600
65.83	1.603
65.92	1.606
66.00	1.608
66.08	1.609
66.17	1.610
66.25	1.610
66.33	1.610
66.42	1.609
66.50	1.608
66.58	1.607
66.67	1.604
66.75	1.601
66.83	1.598
66.92	1.594
67.00	1.590
67.08	1.585
67.17	1.580
67.25	1.574
67.33	1.567
67.42	1.560

TIME hrs	FLOW cms
67.50	1.553
67.58	1.546
67.67	1.538
67.75	1.529
67.83	1.520
67.92	1.511
68.00	1.501
68.08	1.491
68.17	1.481
68.25	1.471
68.33	1.460
68.42	1.449
68.50	1.437
68.58	1.425
68.67	1.414
68.75	1.401
68.83	1.389
68.92	1.376
69.00	1.364
69.08	1.351
69.17	1.338
69.25	1.324
69.33	1.311
69.42	1.297
69.50	1.284
69.58	1.270
69.67	1.256
69.75	1.242
69.83	1.228
69.92	1.214
70.00	1.200
70.08	1.186
70.17	1.172
70.25	1.158
70.33	1.144
70.42	1.129
70.50	1.115
70.58	1.101
70.67	1.087
70.75	1.073
70.83	1.058
70.92	1.044
71.00	1.030
71.08	1.016
71.17	1.002
71.25	0.988
71.33	0.974
71.42	0.961
71.50	0.947
71.58	0.933
71.67	0.920
71.75	0.906
71.83	0.893
71.92	0.879
72.00	0.866
72.08	0.853
72.17	0.840
72.25	0.827
72.33	0.814
72.42	0.801
72.50	0.789
72.58	0.776
72.67	0.764
72.75	0.752
72.83	0.740
72.92	0.728
73.00	0.716
73.08	0.704
73.17	0.692
73.25	0.681
73.33	0.669
73.42	0.658
73.50	0.647
73.58	0.636
73.67	0.625
73.75	0.614
73.83	0.604
73.92	0.593
74.00	0.583
74.08	0.572
74.17	0.562
74.25	0.552
74.33	0.542
74.42	0.533
74.50	0.523
74.58	0.514
74.67	0.504
74.75	0.495
74.83	0.486
74.92	0.477
75.00	0.468
75.08	0.460
75.17	0.451
75.25	0.443
75.33	0.434
75.42	0.426
75.50	0.418
75.58	0.410
75.67	0.403
75.75	0.395
75.83	0.387
75.92	0.380
76.00	0.372
76.08	0.365
76.17	0.358
76.25	0.351
76.33	0.344
76.42	0.338
76.50	0.331
76.58	0.324
76.67	0.318
76.75	0.312
76.83	0.305
76.92	0.299
77.00	0.293
77.08	0.287
77.17	0.282
77.25	0.276
77.33	0.270
77.42	0.265
77.50	0.259
77.58	0.254
77.67	0.249
77.75	0.244
77.83	0.239
77.92	0.234
78.00	0.229
78.08	0.224
78.17	0.220
78.25	0.215
78.33	0.211
78.42	0.207
78.50	0.203
78.58	0.200
78.67	0.197

TIME hrs	FLOW cms
78.75	0.194
78.83	0.191
78.92	0.188
79.00	0.186
79.08	0.184
79.17	0.183
79.25	0.182
79.33	0.181
79.42	0.181
79.50	0.181
79.58	0.181
79.67	0.182
79.75	0.184
79.83	0.186
79.92	0.188
80.00	0.191
80.08	0.194
80.17	0.198
80.25	0.203
80.33	0.207
80.42	0.213
80.50	0.219
80.58	0.225
80.67	0.232
80.75	0.240
80.83	0.248
80.92	0.257
81.00	0.266
81.08	0.276
81.17	0.286
81.25	0.297
81.33	0.309
81.42	0.321
81.50	0.333
81.58	0.346
81.67	0.360
81.75	0.374
81.83	0.389
81.92	0.404
82.00	0.420
82.08	0.437
82.17	0.453
82.25	0.471
82.33	0.489
82.42	0.507
82.50	0.526
82.58	0.545
82.67	0.565
82.75	0.585
82.83	0.606
82.92	0.627
83.00	0.649
83.08	0.671
83.17	0.693
83.25	0.716
83.33	0.739
83.42	0.762
83.50	0.786
83.58	0.810
83.67	0.835
83.75	0.860
83.83	0.885
83.92	0.910
84.00	0.936
84.08	0.961
84.17	0.988
84.25	1.014
84.33	1.040
84.42	1.067
84.50	1.094
84.58	1.121
84.67	1.148
84.75	1.175
84.83	1.202
84.92	1.230
85.00	1.257
85.08	1.284
85.17	1.312
85.25	1.339
85.33	1.367
85.42	1.394
85.50	1.422
85.58	1.449
85.67	1.476
85.75	1.504
85.83	1.531
85.92	1.558
86.00	1.584
86.08	1.611
86.17	1.637
86.25	1.664
86.33	1.690
86.42	1.716
86.50	1.741
86.58	1.766
86.67	1.791
86.75	1.816
86.83	1.840
86.92	1.864
87.00	1.888
87.08	1.912
87.17	1.935
87.25	1.957
87.33	1.979
87.42	2.001
87.50	2.022
87.58	2.043
87.67	2.063
87.75	2.083
87.83	2.103
87.92	2.122
88.00	2.140
88.08	2.158
88.17	2.175
88.25	2.192
88.33	2.208
88.42	2.224
88.50	2.239
88.58	2.253
88.67	2.267
88.75	2.280
88.83	2.292
88.92	2.304
89.00	2.315
89.08	2.326
89.17	2.335
89.25	2.345
89.33	2.353
89.42	2.361
89.50	2.368
89.58	2.374
89.67	2.380
89.75	2.384
89.83	2.388
89.92	2.392

TIME hrs	FLOW cms
90.00	2.394
90.08	2.396
90.17	2.397
90.25	2.398
90.33	2.397
90.42	2.396
90.50	2.394
90.58	2.391
90.67	2.387
90.75	2.383
90.83	2.378
90.92	2.372
91.00	2.365
91.08	2.358
91.17	2.349
91.25	2.341
91.33	2.331
91.42	2.321
91.50	2.310
91.58	2.298
91.67	2.286
91.75	2.273
91.83	2.260
91.92	2.246
92.00	2.232
92.08	2.217
92.17	2.201
92.25	2.186
92.33	2.169
92.42	2.153
92.50	2.135
92.58	2.118
92.67	2.100
92.75	2.082
92.83	2.063
92.92	2.045
93.00	2.026
93.08	2.006
93.17	1.987
93.25	1.967
93.33	1.947
93.42	1.927
93.50	1.907
93.58	1.886
93.67	1.866
93.75	1.845
93.83	1.824
93.92	1.803
94.00	1.782
94.08	1.761
94.17	1.740
94.25	1.719
94.33	1.698
94.42	1.676
94.50	1.655
94.58	1.634
94.67	1.613
94.75	1.592
94.83	1.571
94.92	1.550
95.00	1.529
95.08	1.508
95.17	1.487
95.25	1.466
95.33	1.446
95.42	1.425
95.50	1.405
95.58	1.385
95.67	1.364
95.75	1.344
95.83	1.324
95.92	1.305
96.00	1.285
96.08	1.265
96.17	1.246
96.25	1.227
96.33	1.208
96.42	1.189
96.50	1.170
96.58	1.152
96.67	1.133
96.75	1.115
96.83	1.097
96.92	1.079
97.00	1.061
97.08	1.044
97.17	1.027
97.25	1.009
97.33	0.993
97.42	0.976
97.50	0.959
97.58	0.943
97.67	0.927
97.75	0.911
97.83	0.895
97.92	0.879
98.00	0.864
98.08	0.849
98.17	0.834
98.25	0.819
98.33	0.804
98.42	0.790
98.50	0.776
98.58	0.762
98.67	0.748
98.75	0.734
98.83	0.721
98.92	0.708
99.00	0.695
99.08	0.682
99.17	0.669
99.25	0.656
99.33	0.644
99.42	0.632
99.50	0.620
99.58	0.608
99.67	0.597
99.75	0.585
99.83	0.574
99.92	0.563
100.00	0.552
100.08	0.541
100.17	0.531
100.25	0.521
100.33	0.510
100.42	0.500
100.50	0.491
100.58	0.481
100.67	0.471
100.75	0.462
100.83	0.453
100.92	0.444
101.00	0.435
101.08	0.426
101.17	0.417

TIME hrs	FLOW cms
101.25	0.409
101.33	0.401
101.42	0.393
101.50	0.385
101.58	0.377
101.67	0.369
101.75	0.361
101.83	0.354
101.92	0.347
102.00	0.339
102.08	0.332
102.17	0.326
102.25	0.319
102.33	0.313
102.42	0.307
102.50	0.302
102.58	0.297
102.67	0.293
102.75	0.289
102.83	0.285
102.92	0.282
103.00	0.280
103.08	0.278
103.17	0.277
103.25	0.276
103.33	0.277
103.42	0.278
103.50	0.279
103.58	0.282
103.67	0.285
103.75	0.289
103.83	0.295
103.92	0.301
104.00	0.307
104.08	0.315
104.17	0.324
104.25	0.333
104.33	0.344
104.42	0.356
104.50	0.368
104.58	0.382
104.67	0.397
104.75	0.413
104.83	0.430
104.92	0.447
105.00	0.466
105.08	0.486
105.17	0.507
105.25	0.529
105.33	0.552
105.42	0.576
105.50	0.601
105.58	0.628
105.67	0.655
105.75	0.683
105.83	0.713
105.92	0.743
106.00	0.774
106.08	0.807
106.17	0.840
106.25	0.874
106.33	0.909
106.42	0.945
106.50	0.982
106.58	1.020
106.67	1.059
106.75	1.099
106.83	1.139
106.92	1.180
107.00	1.222
107.08	1.265
107.17	1.309
107.25	1.353
107.33	1.398
107.42	1.444
107.50	1.490
107.58	1.537
107.67	1.585
107.75	1.633
107.83	1.681
107.92	1.730
108.00	1.780
108.08	1.830
108.17	1.881
108.25	1.931
108.33	1.983
108.42	2.034
108.50	2.086
108.58	2.138
108.67	2.190
108.75	2.243
108.83	2.296
108.92	2.348
109.00	2.401
109.08	2.454
109.17	2.507
109.25	2.560
109.33	2.613
109.42	2.666
109.50	2.719
109.58	2.772
109.67	2.824
109.75	2.877
109.83	2.929
109.92	2.980
110.00	3.032
110.08	3.083
110.17	3.134
110.25	3.185
110.33	3.235
110.42	3.284
110.50	3.333
110.58	3.382
110.67	3.430
110.75	3.477
110.83	3.524
110.92	3.570
111.00	3.615
111.08	3.660
111.17	3.704
111.25	3.748
111.33	3.790
111.42	3.832
111.50	3.873
111.58	3.912
111.67	3.951
111.75	3.989
111.83	4.026
111.92	4.063
112.00	4.098
112.08	4.132
112.17	4.165
112.25	4.197
112.33	4.228
112.42	4.258

TIME hrs	FLOW cms
112.50	4.286
112.58	4.314
112.67	4.340
112.75	4.365
112.83	4.388
112.92	4.411
113.00	4.432
113.08	4.452
113.17	4.471
113.25	4.488
113.33	4.504
113.42	4.519
113.50	4.532
113.58	4.544
113.67	4.555
113.75	4.564
113.83	4.571
113.92	4.578
114.00	4.582
114.08	4.586
114.17	4.588
114.25	4.588
114.33	4.587
114.42	4.585
114.50	4.581
114.58	4.575
114.67	4.568
114.75	4.560
114.83	4.550
114.92	4.538
115.00	4.525
115.08	4.511
115.17	4.495
115.25	4.478
115.33	4.459
115.42	4.439
115.50	4.418
115.58	4.396
115.67	4.373
115.75	4.348
115.83	4.323
115.92	4.296
116.00	4.269
116.08	4.240
116.17	4.210
116.25	4.180
116.33	4.149
116.42	4.117
116.50	4.084
116.58	4.050
116.67	4.016
116.75	3.981
116.83	3.946
116.92	3.910
117.00	3.873
117.08	3.836
117.17	3.799
117.25	3.761
117.33	3.723
117.42	3.684
117.50	3.645
117.58	3.606
117.67	3.567
117.75	3.527
117.83	3.487
117.92	3.447
118.00	3.407
118.08	3.367
118.17	3.326
118.25	3.286
118.33	3.246
118.42	3.205
118.50	3.165
118.58	3.124
118.67	3.084
118.75	3.043
118.83	3.003
118.92	2.963
119.00	2.923
119.08	2.883
119.17	2.843
119.25	2.803
119.33	2.764
119.42	2.724
119.50	2.685
119.58	2.647
119.67	2.608
119.75	2.570
119.83	2.531
119.92	2.494
120.00	2.456
120.08	2.419
120.17	2.382
120.25	2.345
120.33	2.308
120.42	2.272
120.50	2.236
120.58	2.201
120.67	2.166
120.75	2.131
120.83	2.096
120.92	2.062
121.00	2.028
121.08	1.995
121.17	1.962
121.25	1.929
121.33	1.897
121.42	1.865
121.50	1.833
121.58	1.802
121.67	1.771
121.75	1.740
121.83	1.710
121.92	1.681
122.00	1.651
122.08	1.622
122.17	1.593
122.25	1.565
122.33	1.537
122.42	1.510
122.50	1.482
122.58	1.456
122.67	1.429
122.75	1.403
122.83	1.377
122.92	1.352
123.00	1.327
123.08	1.302
123.17	1.278
123.25	1.254
123.33	1.231
123.42	1.208
123.50	1.185
123.58	1.162
123.67	1.140

TIME hrs	FLOW cms
123.75	1.118
123.83	1.097
123.92	1.076
124.00	1.055
124.08	1.035
124.17	1.014
124.25	0.995
124.33	0.975
124.42	0.956
124.50	0.937
124.58	0.919
124.67	0.901
124.75	0.883
124.83	0.865
124.92	0.848
125.00	0.831
125.08	0.814
125.17	0.798
125.25	0.781
125.33	0.766
125.42	0.750
125.50	0.735
125.58	0.720
125.67	0.705
125.75	0.690
125.83	0.676
125.92	0.662
126.00	0.649
126.08	0.635
126.17	0.622
126.25	0.609
126.33	0.597
126.42	0.585
126.50	0.573
126.58	0.562
126.67	0.551
126.75	0.541
126.83	0.531
126.92	0.522
127.00	0.513
127.08	0.505
127.17	0.497
127.25	0.490
127.33	0.483
127.42	0.477
127.50	0.472
127.58	0.467
127.67	0.463
127.75	0.460
127.83	0.457
127.92	0.455
128.00	0.453
128.08	0.452
128.17	0.452
128.25	0.453
128.33	0.455
128.42	0.457
128.50	0.460
128.58	0.463
128.67	0.468
128.75	0.473
128.83	0.479
128.92	0.485
129.00	0.493
129.08	0.501
129.17	0.510
129.25	0.520
129.33	0.530
129.42	0.541
129.50	0.553
129.58	0.566
129.67	0.579
129.75	0.593
129.83	0.608
129.92	0.624
130.00	0.640
130.08	0.657
130.17	0.675
130.25	0.693
130.33	0.712
130.42	0.732
130.50	0.753
130.58	0.773
130.67	0.795
130.75	0.817
130.83	0.840
130.92	0.863
131.00	0.887
131.08	0.912
131.17	0.937
131.25	0.962
131.33	0.988
131.42	1.015
131.50	1.042
131.58	1.069
131.67	1.097
131.75	1.125
131.83	1.154
131.92	1.183
132.00	1.212
132.08	1.242
132.17	1.272
132.25	1.302
132.33	1.333
132.42	1.364
132.50	1.395
132.58	1.426
132.67	1.457
132.75	1.489
132.83	1.520
132.92	1.552
133.00	1.584
133.08	1.616
133.17	1.648
133.25	1.680
133.33	1.712
133.42	1.745
133.50	1.777
133.58	1.809
133.67	1.841
133.75	1.872
133.83	1.904
133.92	1.936
134.00	1.967
134.08	1.998
134.17	2.029
134.25	2.060
134.33	2.091
134.42	2.121
134.50	2.151
134.58	2.181
134.67	2.210
134.75	2.239
134.83	2.268
134.92	2.296

TIME hrs	FLOW cms
135.00	2.324
135.08	2.352
135.17	2.379
135.25	2.405
135.33	2.431
135.42	2.457
135.50	2.482
135.58	2.506
135.67	2.530
135.75	2.554
135.83	2.576
135.92	2.599
136.00	2.620
136.08	2.641
136.17	2.661
136.25	2.681
136.33	2.700
136.42	2.718
136.50	2.736
136.58	2.752
136.67	2.768
136.75	2.784
136.83	2.798
136.92	2.812
137.00	2.825
137.08	2.837
137.17	2.849
137.25	2.859
137.33	2.869
137.42	2.878
137.50	2.886
137.58	2.893
137.67	2.899
137.75	2.904
137.83	2.909
137.92	2.913
138.00	2.915
138.08	2.917
138.17	2.918
138.25	2.918
138.33	2.917
138.42	2.915
138.50	2.913
138.58	2.909
138.67	2.904
138.75	2.899
138.83	2.892
138.92	2.884
139.00	2.876
139.08	2.867
139.17	2.856
139.25	2.845
139.33	2.833
139.42	2.821
139.50	2.807
139.58	2.793
139.67	2.778
139.75	2.763
139.83	2.746
139.92	2.729
140.00	2.712
140.08	2.694
140.17	2.675
140.25	2.655
140.33	2.636
140.42	2.615
140.50	2.594
140.58	2.573
140.67	2.551
140.75	2.529
140.83	2.507
140.92	2.484
141.00	2.460
141.08	2.437
141.17	2.413
141.25	2.389
141.33	2.365
141.42	2.340
141.50	2.315
141.58	2.291
141.67	2.265
141.75	2.240
141.83	2.215
141.92	2.189
142.00	2.164
142.08	2.138
142.17	2.113
142.25	2.087
142.33	2.061
142.42	2.035
142.50	2.010
142.58	1.984
142.67	1.958
142.75	1.933
142.83	1.907
142.92	1.882
143.00	1.856
143.08	1.831
143.17	1.805
143.25	1.780
143.33	1.755
143.42	1.730
143.50	1.705
143.58	1.681
143.67	1.656
143.75	1.632
143.83	1.607
143.92	1.583
144.00	1.560
144.08	1.536
144.17	1.512
144.25	1.489
144.33	1.466
144.42	1.443
144.50	1.420
144.58	1.398
144.67	1.375
144.75	1.353
144.83	1.331
144.92	1.310
145.00	1.288
145.08	1.267
145.17	1.246
145.25	1.225
145.33	1.204
145.42	1.184
145.50	1.164
145.58	1.144
145.67	1.125
145.75	1.105
145.83	1.086
145.92	1.067
146.00	1.048
146.08	1.030
146.17	1.012

TIME hrs	FLOW cms
146.25	0.994
146.33	0.976
146.42	0.958
146.50	0.941
146.58	0.924
146.67	0.907
146.75	0.891
146.83	0.875
146.92	0.858
147.00	0.843
147.08	0.827
147.17	0.812
147.25	0.796
147.33	0.781
147.42	0.767
147.50	0.752
147.58	0.738
147.67	0.724
147.75	0.710
147.83	0.696
147.92	0.683
148.00	0.670
148.08	0.657
148.17	0.644
148.25	0.632
148.33	0.619
148.42	0.607
148.50	0.595
148.58	0.583
148.67	0.572
148.75	0.560
148.83	0.549
148.92	0.538
149.00	0.527
149.08	0.517
149.17	0.506
149.25	0.496
149.33	0.486
149.42	0.476
149.50	0.466
149.58	0.457
149.67	0.448
149.75	0.438
149.83	0.429
149.92	0.420
150.00	0.412
150.08	0.403
150.17	0.395
150.25	0.387
150.33	0.379
150.42	0.371
150.50	0.364
150.58	0.357
150.67	0.350
150.75	0.344
150.83	0.338
150.92	0.332
151.00	0.326
151.08	0.321
151.17	0.316
151.25	0.312
151.33	0.308
151.42	0.304
151.50	0.301
151.58	0.298
151.67	0.296
151.75	0.294
151.83	0.293
151.92	0.292
152.00	0.291
152.08	0.291
152.17	0.291
152.25	0.292
152.33	0.294
152.42	0.296
152.50	0.298
152.58	0.301
152.67	0.304
152.75	0.308
152.83	0.313
152.92	0.318
153.00	0.323
153.08	0.329
153.17	0.335
153.25	0.342
153.33	0.350
153.42	0.358
153.50	0.366
153.58	0.375
153.67	0.385
153.75	0.395
153.83	0.406
153.92	0.417
154.00	0.428
154.08	0.440
154.17	0.452
154.25	0.465
154.33	0.479
154.42	0.492
154.50	0.507
154.58	0.521
154.67	0.536
154.75	0.552
154.83	0.568
154.92	0.584
155.00	0.600
155.08	0.617
155.17	0.635
155.25	0.653
155.33	0.671
155.42	0.689
155.50	0.708
155.58	0.727
155.67	0.746
155.75	0.765
155.83	0.785
155.92	0.805
156.00	0.826
156.08	0.846
156.17	0.867
156.25	0.888
156.33	0.909
156.42	0.930
156.50	0.951
156.58	0.973
156.67	0.995
156.75	1.016
156.83	1.038
156.92	1.060
157.00	1.082
157.08	1.104
157.17	1.126
157.25	1.149
157.33	1.171
157.42	1.193

TIME hrs	FLOW cms
157.50	1.215
157.58	1.237
157.67	1.259
157.75	1.281
157.83	1.303
157.92	1.324
158.00	1.346
158.08	1.368
158.17	1.389
158.25	1.410
158.33	1.431
158.42	1.452
158.50	1.473
158.58	1.493
158.67	1.513
158.75	1.533
158.83	1.553
158.92	1.573
159.00	1.592
159.08	1.611
159.17	1.629
159.25	1.648
159.33	1.665
159.42	1.683
159.50	1.700
159.58	1.717
159.67	1.734
159.75	1.750
159.83	1.765
159.92	1.781
160.00	1.795
160.08	1.810
160.17	1.824
160.25	1.837
160.33	1.850
160.42	1.863
160.50	1.875
160.58	1.886
160.67	1.897
160.75	1.908
160.83	1.918
160.92	1.927
161.00	1.936
161.08	1.945
161.17	1.952
161.25	1.960
161.33	1.966
161.42	1.972
161.50	1.978
161.58	1.983
161.67	1.987
161.75	1.991
161.83	1.994
161.92	1.996
162.00	1.998
162.08	2.000
162.17	2.000
162.25	2.000
162.33	2.000
162.42	1.998
162.50	1.996
162.58	1.994
162.67	1.991
162.75	1.987
162.83	1.982
162.92	1.977
163.00	1.971
163.08	1.965
163.17	1.958
163.25	1.950
163.33	1.942
163.42	1.933
163.50	1.924
163.58	1.915
163.67	1.904
163.75	1.894
163.83	1.883
163.92	1.871
164.00	1.859
164.08	1.846
164.17	1.833
164.25	1.820
164.33	1.807
164.42	1.793
164.50	1.778
164.58	1.764
164.67	1.749
164.75	1.733
164.83	1.718
164.92	1.702
165.00	1.686
165.08	1.670
165.17	1.654
165.25	1.637
165.33	1.621
165.42	1.604
165.50	1.587
165.58	1.570
165.67	1.553
165.75	1.535
165.83	1.518
165.92	1.501
166.00	1.483
166.08	1.466
166.17	1.448
166.25	1.430
166.33	1.413
166.42	1.395
166.50	1.377
166.58	1.360
166.67	1.342
166.75	1.325
166.83	1.307
166.92	1.290
167.00	1.272
167.08	1.255
167.17	1.237
167.25	1.220
167.33	1.203
167.42	1.186
167.50	1.169
167.58	1.152
167.67	1.135
167.75	1.118
167.83	1.102
167.92	1.085
168.00	1.069
168.08	1.053
168.17	1.036
168.25	1.020
168.33	1.005
168.42	0.989
168.50	0.973
168.58	0.958
168.67	0.943

TIME hrs	FLOW cms
168.75	0.927
168.83	0.912
168.92	0.897
169.00	0.883
169.08	0.868
169.17	0.854
169.25	0.840
169.33	0.825
169.42	0.812
169.50	0.798
169.58	0.784
169.67	0.771
169.75	0.757
169.83	0.744
169.92	0.731
170.00	0.719
170.08	0.706
170.17	0.693
170.25	0.681
170.33	0.669
170.42	0.657
170.50	0.645
170.58	0.633
170.67	0.622
170.75	0.611
170.83	0.599
170.92	0.588
171.00	0.577
171.08	0.567
171.17	0.556
171.25	0.546
171.33	0.536
171.42	0.525
171.50	0.516
171.58	0.506
171.67	0.496
171.75	0.487
171.83	0.477
171.92	0.468
172.00	0.459
172.08	0.450
172.17	0.441
172.25	0.433
172.33	0.424
172.42	0.416
172.50	0.408
172.58	0.400
172.67	0.392
172.75	0.384
172.83	0.376
172.92	0.369
173.00	0.361
173.08	0.354
173.17	0.347
173.25	0.340
173.33	0.333
173.42	0.326
173.50	0.320
173.58	0.313
173.67	0.307
173.75	0.300
173.83	0.294
173.92	0.288
174.00	0.282
174.08	0.276
174.17	0.271
174.25	0.265
174.33	0.260
174.42	0.255
174.50	0.250
174.58	0.245
174.67	0.240
174.75	0.236
174.83	0.232
174.92	0.228
175.00	0.224
175.08	0.220
175.17	0.217
175.25	0.214
175.33	0.212
175.42	0.209
175.50	0.207
175.58	0.205
175.67	0.204
175.75	0.202
175.83	0.202
175.92	0.201
176.00	0.201
176.08	0.201
176.17	0.201
176.25	0.202
176.33	0.203
176.42	0.205
176.50	0.206
176.58	0.209
176.67	0.211
176.75	0.214
176.83	0.217
176.92	0.221
177.00	0.225
177.08	0.229
177.17	0.234
177.25	0.239
177.33	0.244
177.42	0.250
177.50	0.256
177.58	0.263
177.67	0.270
177.75	0.277
177.83	0.285
177.92	0.292
178.00	0.301
178.08	0.309
178.17	0.318
178.25	0.327
178.33	0.337
178.42	0.347
178.50	0.357
178.58	0.367
178.67	0.378
178.75	0.389
178.83	0.401
178.92	0.412
179.00	0.424
179.08	0.436
179.17	0.449
179.25	0.461
179.33	0.474
179.42	0.487
179.50	0.501
179.58	0.514
179.67	0.528
179.75	0.542
179.83	0.556
179.92	0.570

TIME hrs	FLOW cms
180.00	0.585
180.08	0.600
180.17	0.614
180.25	0.629
180.33	0.644
180.42	0.660
180.50	0.675
180.58	0.690
180.67	0.706
180.75	0.721
180.83	0.737
180.92	0.752
181.00	0.768
181.08	0.784
181.17	0.800
181.25	0.815
181.33	0.831
181.42	0.847
181.50	0.863
181.58	0.878
181.67	0.894
181.75	0.910
181.83	0.925
181.92	0.941
182.00	0.956
182.08	0.971
182.17	0.987
182.25	1.002
182.33	1.017
182.42	1.032
182.50	1.046
182.58	1.061
182.67	1.075
182.75	1.089
182.83	1.104
182.92	1.117
183.00	1.131
183.08	1.144
183.17	1.158
183.25	1.171
183.33	1.183
183.42	1.196
183.50	1.208
183.58	1.220
183.67	1.232
183.75	1.243
183.83	1.255
183.92	1.265
184.00	1.276
184.08	1.286
184.17	1.296
184.25	1.306
184.33	1.315
184.42	1.324
184.50	1.332
184.58	1.341
184.67	1.349
184.75	1.356
184.83	1.363
184.92	1.370
185.00	1.376
185.08	1.382
185.17	1.388
185.25	1.393
185.33	1.398
185.42	1.402
185.50	1.406
185.58	1.409
185.67	1.412
185.75	1.415
185.83	1.417
185.92	1.419
186.00	1.420
186.08	1.421
186.17	1.422
186.25	1.422
186.33	1.421
186.42	1.420
186.50	1.419
186.58	1.417
186.67	1.415
186.75	1.412
186.83	1.409
186.92	1.405
187.00	1.401
187.08	1.397
187.17	1.392
187.25	1.386
187.33	1.381
187.42	1.374
187.50	1.368
187.58	1.361
187.67	1.354
187.75	1.346
187.83	1.338
187.92	1.330
188.00	1.321
188.08	1.312
188.17	1.303
188.25	1.294
188.33	1.284
188.42	1.274
188.50	1.264
188.58	1.254
188.67	1.243
188.75	1.232
188.83	1.221
188.92	1.210
189.00	1.199
189.08	1.187
189.17	1.176
189.25	1.164
189.33	1.152
189.42	1.140
189.50	1.128
189.58	1.116
189.67	1.104
189.75	1.091
189.83	1.079
189.92	1.067
190.00	1.054
190.08	1.042
190.17	1.029
190.25	1.017
190.33	1.004
190.42	0.992
190.50	0.979
190.58	0.967
190.67	0.954
190.75	0.941
190.83	0.929
190.92	0.917
191.00	0.904
191.08	0.892
191.17	0.879

TIME hrs	FLOW cms
191.25	0.867
191.33	0.855
191.42	0.843
191.50	0.831
191.58	0.819
191.67	0.807
191.75	0.795
191.83	0.783
191.92	0.771
192.00	0.760
192.08	0.748
192.17	0.737
192.25	0.725
192.33	0.714
192.42	0.703
192.50	0.692
192.58	0.681
192.67	0.670
192.75	0.659
192.83	0.648
192.92	0.638
193.00	0.627
193.08	0.617
193.17	0.607
193.25	0.597
193.33	0.587
193.42	0.577
193.50	0.567
193.58	0.557
193.67	0.548
193.75	0.538
193.83	0.529
193.92	0.520
194.00	0.511
194.08	0.502
194.17	0.493
194.25	0.484
194.33	0.475
194.42	0.467
194.50	0.458
194.58	0.450
194.67	0.442
194.75	0.434
194.83	0.426
194.92	0.418
195.00	0.410
195.08	0.403
195.17	0.395
195.25	0.388
195.33	0.381
195.42	0.373
195.50	0.366
195.58	0.359
195.67	0.353
195.75	0.346
195.83	0.339
195.92	0.333
196.00	0.326
196.08	0.320
196.17	0.314
196.25	0.308
196.33	0.302
196.42	0.296
196.50	0.290
196.58	0.284
196.67	0.278
196.75	0.273
196.83	0.268
196.92	0.262
197.00	0.257
197.08	0.252
197.17	0.247
197.25	0.242
197.33	0.237
197.42	0.232
197.50	0.227
197.58	0.223
197.67	0.218
197.75	0.214
197.83	0.209
197.92	0.205
198.00	0.201
198.08	0.196
198.17	0.192
198.25	0.188
198.33	0.185
198.42	0.181
198.50	0.177
198.58	0.174
198.67	0.171
198.75	0.168
198.83	0.165
198.92	0.162
199.00	0.159
199.08	0.157
199.17	0.155
199.25	0.153
199.33	0.151
199.42	0.149
199.50	0.148
199.58	0.147
199.67	0.146
199.75	0.145
199.83	0.144
199.92	0.144
200.00	0.144
200.08	0.144
200.17	0.145
200.25	0.146
200.33	0.147
200.42	0.148
200.50	0.149
200.58	0.151
200.67	0.153
200.75	0.156
200.83	0.158
200.92	0.161
201.00	0.164
201.08	0.168
201.17	0.171
201.25	0.175
201.33	0.179
201.42	0.184
201.50	0.189
201.58	0.194
201.67	0.199
201.75	0.205
201.83	0.210
201.92	0.216
202.00	0.223
202.08	0.229
202.17	0.236
202.25	0.243
202.33	0.251
202.42	0.258

TIME hrs	FLOW cms
202.50	0.266
202.58	0.274
202.67	0.282
202.75	0.291
202.83	0.299
202.92	0.308
203.00	0.317
203.08	0.326
203.17	0.336
203.25	0.345
203.33	0.355
203.42	0.365
203.50	0.375
203.58	0.386
203.67	0.396
203.75	0.407
203.83	0.417
203.92	0.428
204.00	0.439
204.08	0.450
204.17	0.462
204.25	0.473
204.33	0.484
204.42	0.496
204.50	0.507
204.58	0.519
204.67	0.531
204.75	0.543
204.83	0.554
204.92	0.566
205.00	0.578
205.08	0.590
205.17	0.602
205.25	0.614
205.33	0.626
205.42	0.638
205.50	0.650
205.58	0.662
205.67	0.674
205.75	0.685
205.83	0.697
205.92	0.709
206.00	0.721
206.08	0.732
206.17	0.744
206.25	0.755
206.33	0.767
206.42	0.778
206.50	0.789
206.58	0.800
206.67	0.811
206.75	0.822
206.83	0.832
206.92	0.843
207.00	0.853
207.08	0.863
207.17	0.873
207.25	0.883
207.33	0.893
207.42	0.902
207.50	0.911
207.58	0.921
207.67	0.929
207.75	0.938
207.83	0.947
207.92	0.955
208.00	0.963
208.08	0.970
208.17	0.978
208.25	0.985
208.33	0.992
208.42	0.999
208.50	1.005
208.58	1.012
208.67	1.018
208.75	1.023
208.83	1.029
208.92	1.034
209.00	1.039
209.08	1.043
209.17	1.047
209.25	1.051
209.33	1.055
209.42	1.058
209.50	1.061
209.58	1.064
209.67	1.066
209.75	1.068
209.83	1.070
209.92	1.071
210.00	1.072
210.08	1.073
210.17	1.073
210.25	1.073
210.33	1.073
210.42	1.072
210.50	1.071
210.58	1.070
210.67	1.068
210.75	1.066
210.83	1.063
210.92	1.061
211.00	1.058
211.08	1.054
211.17	1.050
211.25	1.046
211.33	1.042
211.42	1.037
211.50	1.032
211.58	1.027
211.67	1.022
211.75	1.016
211.83	1.010
211.92	1.004
212.00	0.997
212.08	0.991
212.17	0.984
212.25	0.976
212.33	0.969
212.42	0.962
212.50	0.954
212.58	0.946
212.67	0.938
212.75	0.930
212.83	0.922
212.92	0.913
213.00	0.905
213.08	0.896
213.17	0.887
213.25	0.878
213.33	0.869
213.42	0.860
213.50	0.851
213.58	0.842
213.67	0.833

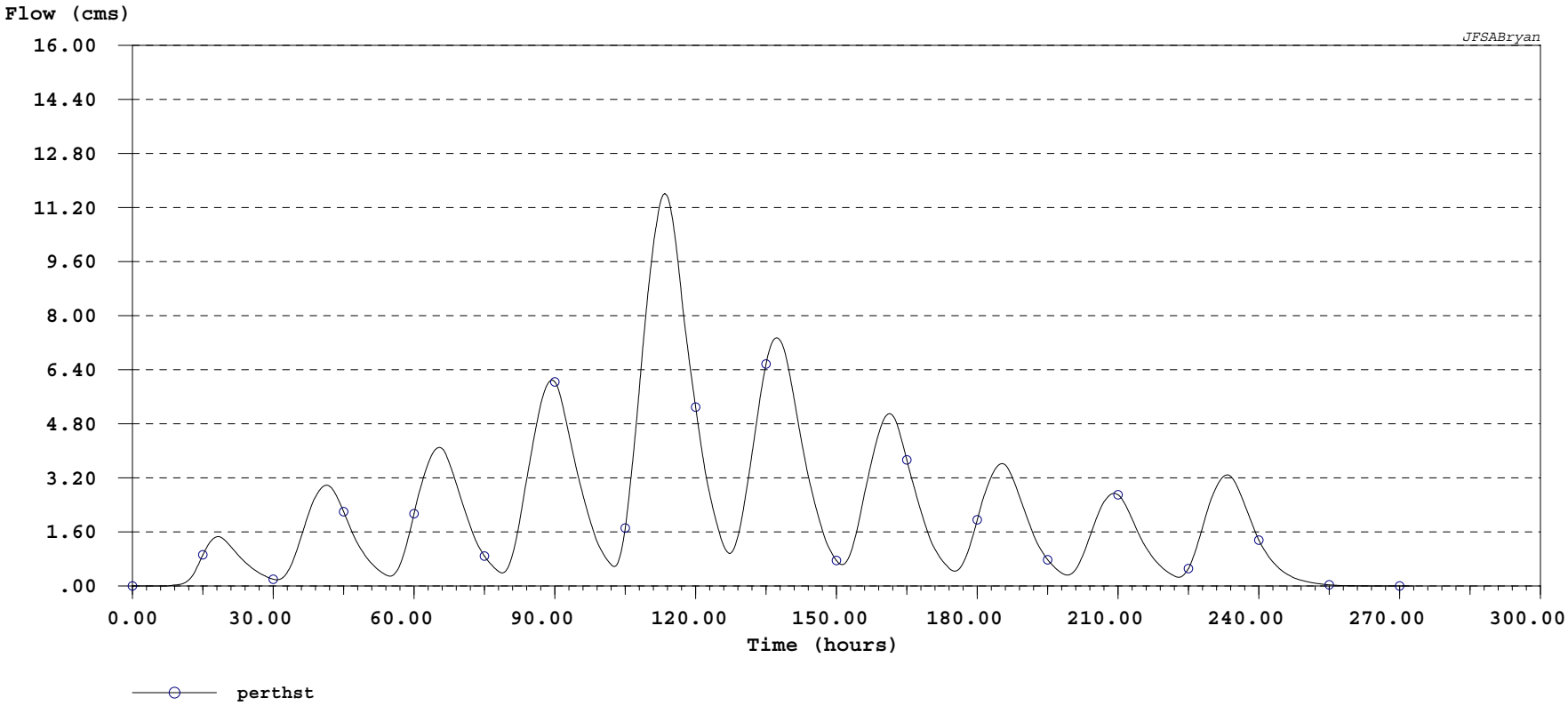
TIME hrs	FLOW cms
213.75	0.824
213.83	0.814
213.92	0.805
214.00	0.796
214.08	0.786
214.17	0.777
214.25	0.767
214.33	0.758
214.42	0.748
214.50	0.739
214.58	0.729
214.67	0.720
214.75	0.711
214.83	0.701
214.92	0.692
215.00	0.682
215.08	0.673
215.17	0.664
215.25	0.655
215.33	0.645
215.42	0.636
215.50	0.627
215.58	0.618
215.67	0.609
215.75	0.600
215.83	0.591
215.92	0.582
216.00	0.573
216.08	0.565
216.17	0.556
216.25	0.547
216.33	0.539
216.42	0.530
216.50	0.522
216.58	0.514
216.67	0.506
216.75	0.497
216.83	0.489
216.92	0.481
217.00	0.474
217.08	0.466
217.17	0.458
217.25	0.450
217.33	0.443
217.42	0.435
217.50	0.428
217.58	0.421
217.67	0.413
217.75	0.406
217.83	0.399
217.92	0.392
218.00	0.385
218.08	0.379
218.17	0.372
218.25	0.365
218.33	0.359
218.42	0.352
218.50	0.346
218.58	0.340
218.67	0.334
218.75	0.328
218.83	0.322
218.92	0.316
219.00	0.310
219.08	0.304
219.17	0.298
219.25	0.293
219.33	0.287
219.42	0.282
219.50	0.277
219.58	0.271
219.67	0.266
219.75	0.261
219.83	0.256
219.92	0.251
220.00	0.246
220.08	0.241
220.17	0.237
220.25	0.232
220.33	0.228
220.42	0.223
220.50	0.219
220.58	0.214
220.67	0.210
220.75	0.206
220.83	0.202
220.92	0.198
221.00	0.194
221.08	0.190
221.17	0.186
221.25	0.182
221.33	0.179
221.42	0.175
221.50	0.172
221.58	0.168
221.67	0.165
221.75	0.161
221.83	0.158
221.92	0.155
222.00	0.151
222.08	0.148
222.17	0.145
222.25	0.142
222.33	0.139
222.42	0.137
222.50	0.134
222.58	0.132
222.67	0.130
222.75	0.127
222.83	0.125
222.92	0.124
223.00	0.122
223.08	0.121
223.17	0.119
223.25	0.118
223.33	0.118
223.42	0.117
223.50	0.117
223.58	0.117
223.67	0.117
223.75	0.117
223.83	0.118
223.92	0.119
224.00	0.120
224.08	0.121
224.17	0.123
224.25	0.125
224.33	0.127
224.42	0.130
224.50	0.133
224.58	0.136
224.67	0.140
224.75	0.144
224.83	0.148
224.92	0.152

TIME hrs	FLOW cms
225.00	0.157
225.08	0.162
225.17	0.167
225.25	0.173
225.33	0.179
225.42	0.185
225.50	0.192
225.58	0.199
225.67	0.206
225.75	0.213
225.83	0.221
225.92	0.229
226.00	0.238
226.08	0.246
226.17	0.255
226.25	0.264
226.33	0.274
226.42	0.284
226.50	0.294
226.58	0.304
226.67	0.314
226.75	0.325
226.83	0.336
226.92	0.348
227.00	0.359
227.08	0.371
227.17	0.383
227.25	0.395
227.33	0.407
227.42	0.420
227.50	0.432
227.58	0.445
227.67	0.458
227.75	0.472
227.83	0.485
227.92	0.499
228.00	0.512
228.08	0.526
228.17	0.540
228.25	0.554
228.33	0.568
228.42	0.582
228.50	0.597
228.58	0.611
228.67	0.626
228.75	0.640
228.83	0.655
228.92	0.669
229.00	0.684
229.08	0.699
229.17	0.713
229.25	0.728
229.33	0.743
229.42	0.757
229.50	0.772
229.58	0.787
229.67	0.801
229.75	0.816
229.83	0.830
229.92	0.845
230.00	0.859
230.08	0.873
230.17	0.887
230.25	0.901
230.33	0.915
230.42	0.929
230.50	0.943
230.58	0.956
230.67	0.969
230.75	0.982
230.83	0.995
230.92	1.008
231.00	1.021
231.08	1.033
231.17	1.046
231.25	1.058
231.33	1.069
231.42	1.081
231.50	1.092
231.58	1.103
231.67	1.114
231.75	1.125
231.83	1.135
231.92	1.145
232.00	1.155
232.08	1.164
232.17	1.173
232.25	1.182
232.33	1.191
232.42	1.199
232.50	1.207
232.58	1.214
232.67	1.222
232.75	1.229
232.83	1.235
232.92	1.241
233.00	1.247
233.08	1.253
233.17	1.258
233.25	1.263
233.33	1.267
233.42	1.271
233.50	1.275
233.58	1.278
233.67	1.281
233.75	1.283
233.83	1.285
233.92	1.287
234.00	1.288
234.08	1.289
234.17	1.290
234.25	1.290
234.33	1.289
234.42	1.289
234.50	1.287
234.58	1.286
234.67	1.284
234.75	1.281
234.83	1.278
234.92	1.275
235.00	1.271
235.08	1.267
235.17	1.263
235.25	1.258
235.33	1.253
235.42	1.247
235.50	1.241
235.58	1.235
235.67	1.228
235.75	1.221
235.83	1.214
235.92	1.207
236.00	1.199
236.08	1.191
236.17	1.183

TIME hrs	FLOW cms
236.25	1.174
236.33	1.165
236.42	1.156
236.50	1.147
236.58	1.138
236.67	1.128
236.75	1.118
236.83	1.108
236.92	1.098
237.00	1.088
237.08	1.077
237.17	1.067
237.25	1.056
237.33	1.045
237.42	1.035
237.50	1.024
237.58	1.013
237.67	1.002
237.75	0.990
237.83	0.979
237.92	0.968
238.00	0.957
238.08	0.945
238.17	0.934
238.25	0.923
238.33	0.911
238.42	0.900
238.50	0.888
238.58	0.877
238.67	0.866
238.75	0.854
238.83	0.843
238.92	0.832
239.00	0.821
239.08	0.809
239.17	0.798
239.25	0.787
239.33	0.776
239.42	0.765
239.50	0.754
239.58	0.743
239.67	0.732
239.75	0.721
239.83	0.711
239.92	0.700
240.00	0.689
240.08	0.679
240.17	0.669
240.25	0.658
240.33	0.648
240.42	0.638
240.50	0.628
240.58	0.618
240.67	0.608
240.75	0.598
240.83	0.588
240.92	0.579
241.00	0.569
241.08	0.560
241.17	0.551
241.25	0.542
241.33	0.532
241.42	0.523
241.50	0.515
241.58	0.506
241.67	0.497
241.75	0.489
241.83	0.480
241.92	0.472
242.00	0.463
242.08	0.455
242.17	0.447
242.25	0.439
242.33	0.431
242.42	0.424
242.50	0.416
242.58	0.409
242.67	0.401
242.75	0.394
242.83	0.387
242.92	0.379
243.00	0.372
243.08	0.366
243.17	0.359
243.25	0.352
243.33	0.345
243.42	0.339
243.50	0.333
243.58	0.326
243.67	0.320
243.75	0.314
243.83	0.308
243.92	0.302
244.00	0.296
244.08	0.290
244.17	0.285
244.25	0.279
244.33	0.274
244.42	0.268
244.50	0.263
244.58	0.258
244.67	0.253
244.75	0.248
244.83	0.243
244.92	0.238
245.00	0.233
245.08	0.228
245.17	0.224
245.25	0.219
245.33	0.215
245.42	0.210
245.50	0.206
245.58	0.202
245.67	0.198
245.75	0.194
245.83	0.190
245.92	0.186
246.00	0.182
246.08	0.178
246.17	0.175
246.25	0.171
246.33	0.167
246.42	0.164
246.50	0.160
246.58	0.157
246.67	0.154
246.75	0.150
246.83	0.147
246.92	0.144
247.00	0.141
247.08	0.138
247.17	0.135
247.25	0.132
247.33	0.129
247.42	0.127

TIME hrs	FLOW cms
247.50	0.124
247.58	0.121
247.67	0.118
247.75	0.116
247.83	0.113
247.92	0.111
248.00	0.108
248.08	0.106
248.17	0.104
248.25	0.101
248.33	0.099
248.42	0.097
248.50	0.095
248.58	0.092
248.67	0.090
248.75	0.088
248.83	0.086
248.92	0.084
249.00	0.082
249.08	0.080
249.17	0.078
249.25	0.077
249.33	0.075
249.42	0.073
249.50	0.071
249.58	0.070
249.67	0.068
249.75	0.066
249.83	0.065
249.92	0.063
250.00	0.062
250.08	0.060
250.17	0.059
250.25	0.057
250.33	0.056
250.42	0.054
250.50	0.053
250.58	0.052
250.67	0.050
250.75	0.049
250.83	0.048
250.92	0.046
251.00	0.045
251.08	0.044
251.17	0.043
251.25	0.042
251.33	0.041
251.42	0.040
251.50	0.038
251.58	0.037
251.67	0.036
251.75	0.035
251.83	0.034
251.92	0.033
252.00	0.032
252.08	0.032
252.17	0.031
252.25	0.030
252.33	0.029
252.42	0.028
252.50	0.027
252.58	0.026
252.67	0.026
252.75	0.025
252.83	0.024
252.92	0.023
253.00	0.023
253.08	0.022
253.17	0.021
253.25	0.021
253.33	0.020
253.42	0.019
253.50	0.019
253.58	0.018
253.67	0.017
253.75	0.017
253.83	0.016
253.92	0.016
254.00	0.015
254.08	0.015
254.17	0.014
254.25	0.014
254.33	0.013
254.42	0.013
254.50	0.012
254.58	0.012
254.67	0.011
254.75	0.011
254.83	0.010
254.92	0.010
255.00	0.010
255.08	0.009
255.17	0.009
255.25	0.008
255.33	0.008
255.42	0.008
255.50	0.007
255.58	0.007
255.67	0.007
255.75	0.006
255.83	0.006
255.92	0.006
256.00	0.006
256.08	0.005
256.17	0.005
256.25	0.005
256.33	0.005
256.42	0.004
256.50	0.004
256.58	0.004
256.67	0.004
256.75	0.003
256.83	0.003
256.92	0.003
257.00	0.003
257.08	0.003
257.17	0.002
257.25	0.002
257.33	0.002
257.42	0.002
257.50	0.002
257.58	0.002
257.67	0.002
257.75	0.001
257.83	0.001
257.92	0.001
258.00	0.001
258.08	0.001
258.17	0.001
258.25	0.001
258.33	0.001
258.42	0.001
258.50	0.001
258.58	0.001
258.67	0.000

PERTHST (VG SPRING)



Hydrograph Statistics:

Legend	Filename & Comment	Time Step (min)	Drainage Area (ha)	Peak Flow (cms)	Time to Peak (hrs)	Runoff Volume (mm)	Runoff Volume (cu.m)	Duration of flow (hrs)	Average flow (cms)
——○——	H-PERTHS.100: perthst	5.00	855.70	11.619	113.417	247.07	2.114E+06	272.833	2.152

Hydrograph Table:

Hydrograph Filename : Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSPRI~1\H-PERTHS.100
Comment in file   : perthst

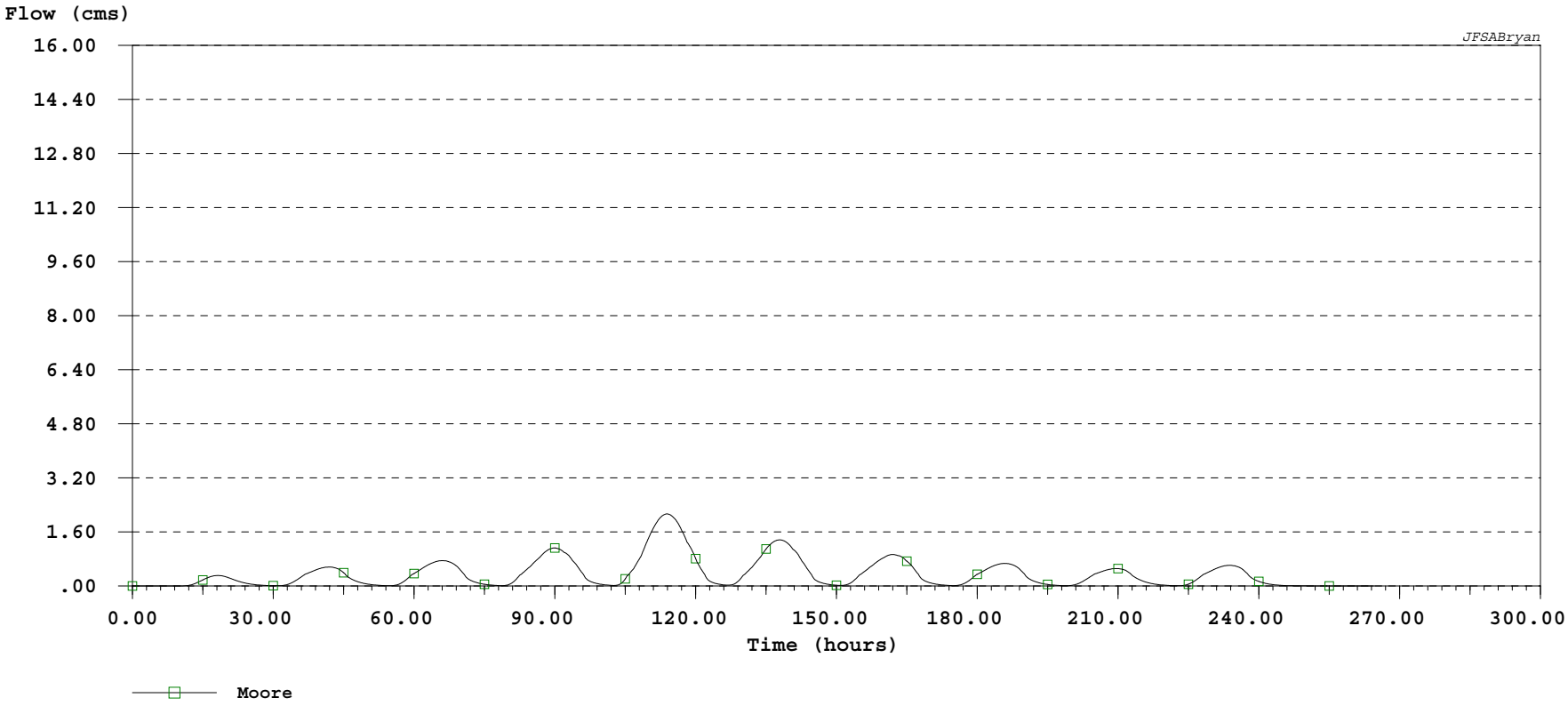
TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
0.00	0.000	11.67	0.141	23.33	0.795	35.00	1.047	46.67	1.637	58.33	1.192
0.08	0.000	11.75	0.150	23.42	0.783	35.08	1.080	46.75	1.610	58.42	1.235
0.17	0.000	11.83	0.159	23.50	0.772	35.17	1.115	46.83	1.584	58.50	1.279
0.25	0.000	11.92	0.169	23.58	0.761	35.25	1.150	46.92	1.558	58.58	1.325
0.33	0.000	12.00	0.179	23.67	0.750	35.33	1.187	47.00	1.533	58.67	1.370
0.42	0.000	12.08	0.190	23.75	0.739	35.42	1.224	47.08	1.508	58.75	1.414
0.50	0.000	12.17	0.201	23.83	0.728	35.50	1.261	47.17	1.483	58.83	1.459
0.58	0.000	12.25	0.213	23.92	0.717	35.58	1.300	47.25	1.458	58.92	1.504
0.67	0.000	12.33	0.225	24.00	0.706	35.67	1.337	47.33	1.433	59.00	1.548
0.75	0.000	12.42	0.238	24.08	0.696	35.75	1.372	47.42	1.408	59.08	1.594
0.83	0.000	12.50	0.252	24.17	0.685	35.83	1.407	47.50	1.384	59.17	1.641
0.92	0.000	12.58	0.266	24.25	0.675	35.92	1.442	47.58	1.360	59.25	1.689
1.00	0.000	12.67	0.281	24.33	0.665	36.00	1.476	47.67	1.336	59.33	1.738
1.08	0.000	12.75	0.296	24.42	0.655	36.08	1.510	47.75	1.314	59.42	1.787
1.17	0.000	12.83	0.313	24.50	0.645	36.17	1.545	47.83	1.291	59.50	1.838
1.25	0.000	12.92	0.331	24.58	0.635	36.25	1.581	47.92	1.269	59.58	1.889
1.33	0.000	13.00	0.349	24.67	0.625	36.33	1.618	48.00	1.248	59.67	1.940
1.42	0.000	13.08	0.369	24.75	0.616	36.42	1.654	48.08	1.227	59.75	1.991
1.50	0.000	13.17	0.389	24.83	0.606	36.50	1.691	48.17	1.207	59.83	2.041
1.58	0.000	13.25	0.411	24.92	0.596	36.58	1.729	48.25	1.187	59.92	2.091
1.67	0.000	13.33	0.433	25.00	0.586	36.67	1.766	48.33	1.168	60.00	2.140
1.75	0.000	13.42	0.457	25.08	0.575	36.75	1.803	48.42	1.149	60.08	2.189
1.83	0.000	13.50	0.481	25.17	0.565	36.83	1.841	48.50	1.130	60.17	2.239
1.92	0.000	13.58	0.504	25.25	0.555	36.92	1.879	48.58	1.112	60.25	2.289
2.00	0.000	13.67	0.528	25.33	0.545	37.00	1.916	48.67	1.094	60.33	2.339
2.08	0.000	13.75	0.552	25.42	0.536	37.08	1.951	48.75	1.076	60.42	2.389
2.17	0.000	13.83	0.576	25.50	0.527	37.17	1.987	48.83	1.059	60.50	2.439
2.25	0.000	13.92	0.599	25.58	0.518	37.25	2.021	48.92	1.041	60.58	2.489
2.33	0.000	14.00	0.621	25.67	0.510	37.33	2.056	49.00	1.024	60.67	2.539
2.42	0.000	14.08	0.644	25.75	0.501	37.42	2.090	49.08	1.007	60.75	2.589
2.50	0.000	14.17	0.668	25.83	0.494	37.50	2.123	49.17	0.989	60.83	2.636
2.58	0.000	14.25	0.692	25.92	0.486	37.58	2.157	49.25	0.971	60.92	2.680
2.67	0.000	14.33	0.717	26.00	0.478	37.67	2.190	49.33	0.953	61.00	2.722
2.75	0.000	14.42	0.743	26.08	0.470	37.75	2.223	49.42	0.935	61.08	2.763
2.83	0.000	14.50	0.769	26.17	0.462	37.83	2.256	49.50	0.917	61.17	2.802
2.92	0.000	14.58	0.795	26.25	0.454	37.92	2.289	49.58	0.900	61.25	2.842
3.00	0.000	14.67	0.822	26.33	0.447	38.00	2.322	49.67	0.883	61.33	2.882
3.08	0.000	14.75	0.848	26.42	0.439	38.08	2.354	49.75	0.867	61.42	2.923
3.17	0.000	14.83	0.873	26.50	0.431	38.17	2.386	49.83	0.851	61.50	2.963
3.25	0.000	14.92	0.897	26.58	0.424	38.25	2.416	49.92	0.836	61.58	3.004
3.33	0.000	15.00	0.921	26.67	0.416	38.33	2.446	50.00	0.821	61.67	3.044
3.42	0.000	15.08	0.944	26.75	0.408	38.42	2.475	50.08	0.806	61.75	3.084
3.50	0.000	15.17	0.966	26.83	0.401	38.50	2.502	50.17	0.791	61.83	3.124
3.58	0.000	15.25	0.988	26.92	0.393	38.58	2.527	50.25	0.777	61.92	3.164
3.67	0.000	15.33	1.011	27.00	0.386	38.67	2.550	50.33	0.763	62.00	3.203
3.75	0.000	15.42	1.033	27.08	0.379	38.75	2.572	50.42	0.749	62.08	3.243
3.83	0.000	15.50	1.055	27.17	0.373	38.83	2.594	50.50	0.736	62.17	3.281
3.92	0.000	15.58	1.077	27.25	0.366	38.92	2.615	50.58	0.723	62.25	3.318
4.00	0.000	15.67	1.099	27.33	0.359	39.00	2.635	50.67	0.710	62.33	3.355
4.08	0.000	15.75	1.120	27.42	0.353	39.08	2.656	50.75	0.697	62.42	3.392
4.17	0.000	15.83	1.141	27.50	0.347	39.17	2.677	50.83	0.685	62.50	3.427
4.25	0.000	15.92	1.162	27.58	0.341	39.25	2.697	50.92	0.673	62.58	3.461
4.33	0.000	16.00	1.182	27.67	0.335	39.33	2.718	51.00	0.661	62.67	3.495
4.42	0.000	16.08	1.203	27.75	0.330	39.42	2.737	51.08	0.649	62.75	3.527
4.50	0.000	16.17	1.222	27.83	0.324	39.50	2.756	51.17	0.638	62.83	3.560
4.58	0.000	16.25	1.242	27.92	0.319	39.58	2.775	51.25	0.627	62.92	3.592
4.67	0.000	16.33	1.260	28.00	0.313	39.67	2.792	51.33	0.615	63.00	3.623
4.75	0.000	16.42	1.277	28.08	0.308	39.75	2.810	51.42	0.604	63.08	3.654
4.83	0.000	16.50	1.293	28.17	0.303	39.83	2.827	51.50	0.592	63.17	3.684
4.92	0.000	16.58	1.308	28.25	0.297	39.92	2.843	51.58	0.580	63.25	3.714
5.00	0.000	16.67	1.321	28.33	0.291	40.00	2.858	51.67	0.568	63.33	3.742
5.08	0.000	16.75	1.334	28.42	0.285	40.08	2.872	51.75	0.556	63.42	3.769
5.17	0.000	16.83	1.347	28.50	0.280	40.17	2.886	51.83	0.544	63.50	3.795
5.25	0.000	16.92	1.359	28.58	0.274	40.25	2.898	51.92	0.533	63.58	3.820
5.33	0.000	17.00	1.371	28.67	0.267	40.33	2.910	52.00	0.522	63.67	3.844
5.42	0.000	17.08	1.382	28.75	0.261	40.42	2.921	52.08	0.512	63.75	3.869
5.50	0.000	17.17	1.393	28.83	0.255	40.50	2.931	52.17	0.502	63.83	3.893
5.58	0.000	17.25	1.403	28.92	0.250	40.58	2.940	52.25	0.492	63.92	3.913
5.67	0.000	17.33	1.412	29.00	0.245	40.67	2.948	52.33	0.483	64.00	3.933
5.75	0.000	17.42	1.420	29.08	0.241	40.75	2.955	52.42	0.474	64.08	3.952
5.83	0.000	17.50	1.428	29.17	0.236	40.83	2.962	52.50	0.465	64.17	3.971
5.92	0.000	17.58	1.434	29.25	0.232	40.92	2.968	52.58	0.456	64.25	3.987
6.00	0.000	17.67	1.440	29.33	0.228	41.00	2.973	52.67	0.447	64.33	4.003
6.08	0.000	17.75	1.445	29.42	0.224	41.08	2.977	52.75	0.439	64.42	4.017
6.17	0.000	17.83	1.449	29.50	0.220	41.17	2.980	52.83	0.430	64.50	4.031
6.25	0.000	17.92	1.453	29.58	0.216	41.25	2.982	52.92	0.422	64.58	4.042
6.33	0.000	18.00	1.457	29.67	0.213	41.33	2.984	53.00	0.414	64.67	4.053
6.42	0.000	18.08	1.459	29.75	0.209	41.42	2.985	53.08	0.405	64.75	4.062
6.50	0.000	18.17	1.461	29.83	0.206	41.50	2.983	53.17	0.397	64.83	4.071
6.58	0.000	18.25	1.462	29.92	0.202	41.58	2.980	53.25	0.390	64.92	4.078
6.67	0.000	18.33	1.462	30.00	0.199	41.67	2.977	53.33	0.382	65.00	4.085
6.75	0.000	18.42	1.460	30.08	0.196	41.75	2.971	53.42	0.374	65.08	4.090
6.83	0.000	18.50	1.458	30.17	0.193	41.83	2.966	53.50	0.367	65.17	4.095
6.92	0.000	18.58	1.455	30.25	0.190	41.92	2.960	53.58	0.360	65.25	4.097
7.00	0.000	18.67	1.451	30.33	0.188	42.00	2.952	53.67	0.353	65.33	4.100
7.08	0.000	18.75	1.447	30.42	0.186	42.08	2.942	53.75	0.347	65.42	4.101
7.17	0.000	18.83	1.441	30.50	0.185	42.17	2.932	53.83	0.340	65.50	4.097
7.25	0.000	18.92	1.436	30.58	0.184	42.25	2.923	53.92	0.334	65.58	4.094
7.33	0.000	19.00	1.429	30.67	0.184	42.33	2.912	54.00	0.328	65.67	4.091
7.42	0.000	19.08	1.422	30.75	0.184	42.42	2.900	54.08	0.322	65.75	4.086
7.50	0.001	19.17	1.414	30.83	0.184	42.50	2.887	54.17	0.316	65.83	4.079
7.58	0.002	19.25	1.405	30.92	0.184	42.58	2.873	54.25	0.312	65.92	4.071
7.67	0.003	19.33	1.397	31.00	0.185	42.67	2.857	54.33	0.307	66.00	4.063
7.75	0.004	19.42	1.387	31.08	0.186	42.75	2.841	54.42	0.303	66.08	4.054
7.83	0.006	19.50	1.378	31.17	0.188	42.83	2.823	54.50	0.299	66.17	4.042
7.92	0.007	19.58	1.367	31.25	0.191	42.92	2.805	54.58	0.296	66.25	4.027
8.00	0.010	19.67	1.357	31.33	0.194	43.00	2.786	54.67	0.294	66.33	4.012
8.08	0.011	19.75	1.346	31.42	0.198	43.08	2.765	54.75	0.292	66.42	3.995
8.17	0.013	19.83	1.335	31.50	0.202	43.17	2.744	54.83	0.291	66.50	3.977
8.25	0.015	19.92	1.323	31.58	0.207	43.25	2.723	54.92	0.290	66.58	3.956
8.33	0.017	20.00	1.311	31.67	0.214	43.33	2.702	55.00	0.290	66.67	3.932
8.42	0.019	20.08	1.299	31.75	0.220	43.42	2.681	55.08	0.291	66.75	3.907
8.50	0.020	20.17	1.287	31.83	0.227	43.50	2.659	55.17	0.294	66.83	3.882
8.58	0.022	20.25	1.275	31.92	0.235	43.58	2.636	55.25	0.298	66.92	3.854
8.67	0.024	20.33	1.262	32.00	0.243	43.67	2.613	55.33	0.303	67.00	3.825
8.75	0.025	20.42	1.250	32.08	0.252	43.75	2.588	55.42	0.309	67.08	3.795
8.83	0.027	20.50	1.237	32.17	0.262	43.83	2.563	55.50	0.317	67.17	3.765
8.92	0.028	20.58	1.224	32.25	0.273	43.92	2.539	55.58	0.325	67.25	3.736
9.00	0.029	20.67	1.211	32.33	0.284	44.00	2.514	55.67	0.335	67.33	3.706
9.08	0.030	20.75	1.198	32.42	0.296	44.08	2.488	55.75	0.346	67.42	3.675
9.17	0.031	20.83	1.185	32.50	0.309	44.17	2.464	55.83	0.358	67.50	3.644
9.25	0.032	20.92	1.172	32.58	0.323	44.25	2.439	55.92	0.371	67.58	3.613
9.33	0.033	21.00	1.158	32.67	0.339	44.33	2.413	56.00	0.385	67.67	3.581
9.42	0.034	21.08	1.145	32.75	0.355	44.42	2.386	56.08	0.399	67.75	3.549
9.50	0.035	21.17	1.132	32.83	0.371	44.50	2.360	56.17	0.413	67.83	3.518
9.58	0.037	21.25	1.119	32.92	0.389	44.58	2.333	56.25	0.428	67.92	3.485
9.67	0.038	21.33	1.105	33.00	0.409	44.67	2.306	56.33	0.444	68.00	3.451
9.75	0.040	21.42	1.092	33.08	0.428	44.75	2.279	56.42	0.461	68.08	3.419
9.83	0.041	21.50	1.079	33.17	0.448	44.83	2.252	56.50	0.480	68.17	3.384
9.92	0.043	21.58	1.066	33.25	0.467	44.92	2.224	56.58	0.501	68.25	3.349
10.00	0.045	21.67	1.052	33.33	0.487	45.00	2.197	56.67	0.522	68.33	3.317
10.08	0.046	21.75	1.039	33.42	0.507	45.08	2.170	56.75	0.545	68.42	3.283
10.17	0.048	21.83	1.026	33.50	0.527	45.17	2.142	56.83	0.570	68.50	3.247
10.25	0.050	21.92	1.013	33.58	0.549	45.25	2.114	56.92	0.596	68.58	3.211
10.33	0.053	22.00	1.000	33.67	0.571	45.33	2.085	57.00	0.623	68.67	3.176
10.42	0.056	22.08	0.986	33.75	0.595	45.42	2.056	57.08	0.652	68.75	3.140
10.50	0.059	22.17	0.972	33.83	0.621	45.50	2.028	57.17	0.681	68.83	3.104
10.58	0.063	22.25	0.958	33.92	0.647	45.58	1.999	57.25	0.712	68.92	3.067
10.67	0.066	22.33	0.945	34.00	0.674	45.67	1.972	57.33	0.745	69.00	3.031
10.75	0.071	22.42	0.931	34.08	0.703	45.75	1.945	57.42	0.779	69.08	2.994
10.83	0.075	22.50	0.918	34.17	0.732	45.83	1.918	57.50	0.814	69.17	2.957
10.92	0.080	22.58	0.906	34.25	0.763	45.92	1.891	57.58	0.849	69.25	2.921
11.00	0.085	22.67	0.893	34.33	0.794	46.00	1.864	57.67	0.884	69.33	2.884
11.08	0.090	22.75	0.880	34.42	0.826	46.08	1.837	57.75	0.920	69.42	2.847
11.17	0.096	22.83	0.868	34.50	0.857	46.17	1.809	57.83	0.956	69.50	2.809
11.25	0.103	22.92	0.856	34.58	0.888	46.25	1.781	57.92	0.993	69.58	2.771
11.33	0.109	23.00	0.843	34.67	0.919	46.33	1.752	58.00	1.030	69.67	2.732
11.42	0.117	23.08	0.831	34.75	0.951	46.42	1.723	58.08	1.069	69.75	2.694
11.50	0.124	23.17	0.819	34.83	0.982	46.50	1.694	58.17	1.109	69.83	2.657
11.58	0.132	23.25	0.807	34.92	1.014	46.58	1.665	58.25	1.150	69.92	2.620

TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
70.00	2.584	81.67	1.321	93.33	4.274	105.00	1.717	116.67	9.044	128.33	1.164
70.08	2.548	81.75	1.377	93.42	4.220	105.08	1.799	116.75	8.936	128.42	1.196
70.17	2.513	81.83	1.433	93.50	4.167	105.17	1.886	116.83	8.828	128.50	1.231
70.25	2.477	81.92	1.489	93.58	4.113	105.25	1.977	116.92	8.710	128.58	1.267
70.33	2.442	82.00	1.546	93.67	4.060	105.33	2.073	117.00	8.590	128.67	1.305
70.42	2.407	82.08	1.604	93.75	4.006	105.42	2.171	117.08	8.474	128.75	1.344
70.50	2.372	82.17	1.663	93.83	3.953	105.50	2.270	117.17	8.351	128.83	1.384
70.58	2.336	82.25	1.724	93.92	3.900	105.58	2.373	117.25	8.240	128.92	1.425
70.67	2.301	82.33	1.787	94.00	3.847	105.67	2.478	117.33	8.132	129.00	1.467
70.75	2.267	82.42	1.852	94.08	3.794	105.75	2.586	117.42	8.030	129.08	1.510
70.83	2.232	82.50	1.919	94.17	3.742	105.83	2.696	117.50	7.930	129.17	1.557
70.92	2.198	82.58	1.988	94.25	3.689	105.92	2.809	117.58	7.831	129.25	1.604
71.00	2.164	82.67	2.057	94.33	3.636	106.00	2.921	117.67	7.736	129.33	1.654
71.08	2.131	82.75	2.125	94.42	3.583	106.08	3.029	117.75	7.644	129.42	1.706
71.17	2.096	82.83	2.194	94.50	3.530	106.17	3.137	117.83	7.553	129.50	1.761
71.25	2.061	82.92	2.263	94.58	3.477	106.25	3.246	117.92	7.464	129.58	1.818
71.33	2.026	83.00	2.332	94.67	3.425	106.33	3.354	118.00	7.374	129.67	1.879
71.42	1.991	83.08	2.402	94.75	3.375	106.42	3.465	118.08	7.284	129.75	1.941
71.50	1.957	83.17	2.473	94.83	3.326	106.50	3.579	118.17	7.193	129.83	2.005
71.58	1.924	83.25	2.545	94.92	3.277	106.58	3.694	118.25	7.103	129.92	2.069
71.67	1.893	83.33	2.618	95.00	3.230	106.67	3.812	118.33	7.011	130.00	2.133
71.75	1.861	83.42	2.691	95.08	3.183	106.75	3.929	118.42	6.917	130.08	2.199
71.83	1.830	83.50	2.762	95.17	3.138	106.83	4.046	118.50	6.824	130.17	2.265
71.92	1.798	83.58	2.829	95.25	3.093	106.92	4.163	118.58	6.732	130.25	2.334
72.00	1.765	83.67	2.895	95.33	3.048	107.00	4.282	118.67	6.642	130.33	2.405
72.08	1.733	83.75	2.959	95.42	3.004	107.08	4.403	118.75	6.554	130.42	2.477
72.17	1.700	83.83	3.022	95.50	2.960	107.17	4.527	118.83	6.467	130.50	2.551
72.25	1.667	83.92	3.085	95.58	2.916	107.25	4.653	118.92	6.381	130.58	2.626
72.33	1.633	84.00	3.150	95.67	2.871	107.33	4.780	119.00	6.295	130.67	2.702
72.42	1.601	84.08	3.216	95.75	2.827	107.42	4.909	119.08	6.210	130.75	2.775
72.50	1.569	84.17	3.282	95.83	2.781	107.50	5.037	119.17	6.125	130.83	2.846
72.58	1.538	84.25	3.349	95.92	2.735	107.58	5.165	119.25	6.041	130.92	2.916
72.67	1.508	84.33	3.416	96.00	2.689	107.67	5.295	119.33	5.957	131.00	2.986
72.75	1.478	84.42	3.483	96.08	2.643	107.75	5.427	119.42	5.875	131.08	3.057
72.83	1.448	84.50	3.550	96.17	2.598	107.83	5.560	119.50	5.793	131.17	3.129
72.92	1.419	84.58	3.617	96.25	2.554	107.92	5.695	119.58	5.710	131.25	3.202
73.00	1.391	84.67	3.684	96.33	2.511	108.00	5.834	119.67	5.626	131.33	3.277
73.08	1.364	84.75	3.749	96.42	2.468	108.08	5.975	119.75	5.541	131.42	3.352
73.17	1.337	84.83	3.815	96.50	2.426	108.17	6.116	119.83	5.457	131.50	3.429
73.25	1.312	84.92	3.880	96.58	2.384	108.25	6.253	119.92	5.375	131.58	3.508
73.33	1.287	85.00	3.946	96.67	2.342	108.33	6.389	120.00	5.293	131.67	3.588
73.42	1.262	85.08	4.012	96.75	2.300	108.42	6.524	120.08	5.212	131.75	3.668
73.50	1.239	85.17	4.078	96.83	2.259	108.50	6.659	120.17	5.130	131.83	3.747
73.58	1.216	85.25	4.144	96.92	2.218	108.58	6.793	120.25	5.049	131.92	3.825
73.67	1.194	85.33	4.209	97.00	2.177	108.67	6.928	120.33	4.967	132.00	3.903
73.75	1.173	85.42	4.274	97.08	2.138	108.75	7.060	120.42	4.886	132.08	3.982
73.83	1.152	85.50	4.338	97.17	2.098	108.83	7.191	120.50	4.804	132.17	4.061
73.92	1.131	85.58	4.401	97.25	2.058	108.92	7.321	120.58	4.721	132.25	4.142
74.00	1.111	85.67	4.464	97.33	2.018	109.00	7.447	120.67	4.639	132.33	4.222
74.08	1.092	85.75	4.526	97.42	1.978	109.08	7.569	120.75	4.557	132.42	4.303
74.17	1.073	85.83	4.587	97.50	1.939	109.17	7.690	120.83	4.476	132.50	4.384
74.25	1.054	85.92	4.646	97.58	1.901	109.25	7.811	120.92	4.396	132.58	4.465
74.33	1.035	86.00	4.705	97.67	1.865	109.33	7.933	121.00	4.316	132.67	4.546
74.42	1.017	86.08	4.764	97.75	1.829	109.42	8.057	121.08	4.237	132.75	4.626
74.50	0.998	86.17	4.822	97.83	1.793	109.50	8.181	121.17	4.159	132.83	4.706
74.58	0.978	86.25	4.880	97.92	1.757	109.58	8.304	121.25	4.082	132.92	4.784
74.67	0.959	86.33	4.940	98.00	1.721	109.67	8.425	121.33	4.006	133.00	4.863
74.75	0.940	86.42	5.000	98.08	1.684	109.75	8.543	121.42	3.931	133.08	4.941
74.83	0.921	86.50	5.058	98.17	1.647	109.83	8.659	121.50	3.857	133.17	5.019
74.92	0.902	86.58	5.115	98.25	1.611	109.92	8.773	121.58	3.784	133.25	5.098
75.00	0.884	86.67	5.171	98.33	1.574	110.00	8.883	121.67	3.712	133.33	5.179
75.08	0.867	86.75	5.225	98.42	1.538	110.08	8.989	121.75	3.640	133.42	5.261
75.17	0.850	86.83	5.278	98.50	1.503	110.17	9.091	121.83	3.568	133.50	5.343
75.25	0.834	86.92	5.329	98.58	1.467	110.25	9.191	121.92	3.496	133.58	5.423
75.33	0.818	87.00	5.378	98.67	1.434	110.33	9.292	122.00	3.426	133.67	5.502
75.42	0.802	87.08	5.427	98.75	1.401	110.42	9.395	122.08	3.358	133.75	5.580
75.50	0.787	87.17	5.473	98.83	1.370	110.50	9.497	122.17	3.293	133.83	5.656
75.58	0.772	87.25	5.517	98.92	1.340	110.58	9.598	122.25	3.229	133.92	5.731
75.67	0.757	87.33	5.559	99.00	1.311	110.67	9.699	122.33	3.167	134.00	5.803
75.75	0.743	87.42	5.598	99.08	1.283	110.75	9.800	122.42	3.107	134.08	5.873
75.83	0.729	87.50	5.637	99.17	1.256	110.83	9.899	122.50	3.047	134.17	5.942
75.92	0.715	87.58	5.674	99.25	1.230	110.92	9.996	122.58	2.990	134.25	6.010
76.00	0.702	87.67	5.709	99.33	1.206	111.00	10.093	122.67	2.936	134.33	6.077
76.08	0.689	87.75	5.744	99.42	1.182	111.08	10.186	122.75	2.882	134.42	6.144
76.17	0.676	87.83	5.778	99.50	1.159	111.17	10.278	122.83	2.830	134.50	6.208
76.25	0.664	87.92	5.811	99.58	1.136	111.25	10.359	122.92	2.776	134.58	6.272
76.33	0.652	88.00	5.841	99.67	1.114	111.33	10.435	123.00	2.721	134.67	6.334
76.42	0.640	88.08	5.869	99.75	1.093	111.42	10.504	123.08	2.667	134.75	6.395
76.50	0.628	88.17	5.897	99.83	1.072	111.50	10.576	123.17	2.614	134.83	6.454
76.58	0.616	88.25	5.922	99.92	1.052	111.58	10.646	123.25	2.561	134.92	6.512
76.67	0.604	88.33	5.945	100.00	1.032	111.67	10.715	123.33	2.510	135.00	6.569
76.75	0.592	88.42	5.967	100.08	1.012	111.75	10.786	123.42	2.459	135.08	6.625
76.83	0.579	88.50	5.987	100.17	0.991	111.83	10.861	123.50	2.409	135.17	6.680
76.92	0.567	88.58	6.004	100.25	0.970	111.92	10.935	123.58	2.360	135.25	6.732
77.00	0.554	88.67	6.020	100.33	0.949	112.00	11.008	123.67	2.310	135.33	6.781
77.08	0.542	88.75	6.034	100.42	0.929	112.08	11.077	123.75	2.262	135.42	6.828
77.17	0.530	88.83	6.046	100.50	0.908	112.17	11.143	123.83	2.214	135.50	6.871
77.25	0.518	88.92	6.059	100.58	0.889	112.25	11.205	123.92	2.167	135.58	6.913
77.33	0.507	89.00	6.068	100.67	0.870	112.33	11.261	124.00	2.120	135.67	6.956
77.42	0.497	89.08	6.076	100.75	0.853	112.42	11.314	124.08	2.073	135.75	6.998
77.50	0.487	89.17	6.083	100.83	0.835	112.50	11.360	124.17	2.027	135.83	7.037
77.58	0.478	89.25	6.089	100.92	0.819	112.58	11.403	124.25	1.981	135.92	7.073
77.67	0.468	89.33	6.091	101.00	0.802	112.67	11.441	124.33	1.937	136.00	7.108
77.75	0.459	89.42	6.090	101.08	0.786	112.75	11.475	124.42	1.893	136.08	7.140
77.83	0.450	89.50	6.089	101.17	0.770	112.83	11.505	124.50	1.852	136.17	7.170
77.92	0.441	89.58	6.086	101.25	0.755	112.92	11.532	124.58	1.811	136.25	7.197
78.00	0.432	89.67	6.078	101.33	0.740	113.00	11.555	124.67	1.770	136.33	7.221
78.08	0.424	89.75	6.072	101.42	0.725	113.08	11.584	124.75	1.728	136.42	7.243
78.17	0.416	89.83	6.065	101.50	0.711	113.17	11.590	124.83	1.685	136.50	7.262
78.25	0.409	89.92	6.054	101.58	0.698	113.25	11.594	124.92	1.644	136.58	7.279
78.33	0.403	90.00	6.038	101.67	0.684	113.33	11.611	125.00	1.602	136.67	7.294
78.42	0.398	90.08	6.023	101.75	0.671	113.42	11.619	125.08	1.561	136.75	7.306
78.50	0.394	90.17	6.007	101.83	0.658	113.50	11.605	125.17	1.520	136.83	7.316
78.58	0.391	90.25	5.988	101.92	0.645	113.58	11.591	125.25	1.479	136.92	7.326
78.67	0.389	90.33	5.967	102.00	0.633	113.67	11.589	125.33	1.440	137.00	7.333
78.75	0.389	90.42	5.944	102.08	0.621	113.75	11.579	125.42	1.402	137.08	7.338
78.83	0.389	90.50	5.917	102.17	0.611	113.83	11.565	125.50	1.366	137.17	7.344
78.92	0.390	90.58	5.888	102.25	0.600	113.92	11.546	125.58	1.332	137.25	7.347
79.00	0.393	90.67	5.856	102.33	0.591	114.00	11.522	125.67	1.299	137.33	7.344
79.08	0.396	90.75	5.822	102.42	0.584	114.08	11.494	125.75	1.268	137.42	7.341
79.17	0.401	90.83	5.785	102.50	0.578	114.17	11.461	125.83	1.238	137.50	7.337
79.25	0.408	90.92	5.747	102.58	0.575	114.25	11.424	125.92	1.210	137.58	7.328
79.33	0.416	91.00	5.708	102.67	0.575	114.33	11.383	126.00	1.183	137.67	7.320
79.42	0.426	91.08	5.668	102.75	0.577	114.42	11.338	126.08	1.157	137.75	7.310
79.50	0.438	91.17	5.624	102.83	0.581	114.50	11.288	126.17	1.133	137.83	7.295
79.58	0.451	91.25	5.580	102.92	0.588	114.58	11.233	126.25	1.111	137.92	7.282
79.67	0.467	91.33	5.534	103.00	0.596	114.67	11.173	126.33	1.089	138.00	7.269
79.75	0.484	91.42	5.485	103.08	0.608	114.75	11.110	126.42	1.070	138.08	7.253
79.83	0.503	91.50	5.440	103.17	0.622	114.83	11.044	126.50	1.052	138.17	7.232
79.92	0.523	91.58	5.391	103.25	0.639	114.92	10.974	126.58	1.036	138.25	7.210
80.00	0.545	91.67	5.341	103.33	0.660	115.00	10.914	126.67	1.021	138.33	7.186
80.08	0.568	91.75	5.291	103.42	0.684	115.08	10.848	126.75	1.007	138.42	7.162
80.17	0.593	91.83	5.237	103.50	0.712	115.17	10.764	126.83	0.995	138.50	7.136
80.25	0.620	91.92	5.183	103.58	0.744	115.25	10.693	126.92	0.985	138.58	7.107
80.33	0.649	92.00	5.132	103.67	0.779	115.33	10.616	127.00	0.976	138.67	7.075
80.42	0.680	92.08	5.078	103.75	0.816	115.42	10.520	127.08	0.969	138.75	7.040
80.50	0.712	92.17	5.025	103.83	0.856	115.50	10.442	127.17	0.965	138.83	7.003
80.58	0.747	92.25	4.974	103.92	0.897	115.58	10.358	127.25	0.963	138.92	6.964
80.67	0.783	92.33	4.922	104.00	0.941	115.67	10.266	127.33	0.964	139.00	6.923
80.75	0.822	92.42	4.869	104.08	0.989	115.75	10.173	127.42	0.968	139.08	6.879
80.83	0.861	92.50	4.816	104.17	1.040	115.83	10.080	127.50	0.975	139.17	6.832
80.92	0.900	92.58	4.763	104.25	1.096	115.92	9.984	127.58	0.983	139.25	6.783
81.00	0.941	92.67	4.710	104.33	1.153	116.00	9.886	127.67	0.995	139.33	6.733
81.08	0.983	92.75	4.655	104.42	1.213	116.08	9.786	127.75	1.009	139.42	6.679
81.17	1.026	92.83	4.600	104.50	1.278	116.17	9.685	127.83	1.025	139.50	6.627
81.25	1.071	92.92	4.545	104.58	1.347	116.25	9.582	127.92	1.043	139.58	6.573
81.33	1.117	93.00	4.490	104.67	1.417	116.33	9.476	128.00	1.062	139.67	6.518
81.42	1.164	93.08	4.436	104.75	1.488	116.42	9.368	128.08	1.084	139.75	6.463
81.50	1.214	93.17	4.382	104.83	1.562	116.50	9.259	128.17	1.108	139.83	6.405
81.58	1.267	93.25	4.328	104.92	1.638	116.58	9.151	128.25	1.135	139.92	6.345

TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
140.00	6.286	151.67	0.651	163.33	4.598	175.00	0.442	186.67	3.451	198.33	0.355
140.08	6.229	151.75	0.661	163.42	4.558	175.08	0.440	186.75	3.429	198.42	0.349
140.17	6.166	151.83	0.672	163.50	4.515	175.17	0.439	186.83	3.407	198.50	0.344
140.25	6.102	151.92	0.684	163.58	4.473	175.25	0.439	186.92	3.384	198.58	0.340
140.33	6.040	152.00	0.697	163.67	4.433	175.33	0.439	187.00	3.360	198.67	0.336
140.42	5.978	152.08	0.712	163.75	4.391	175.42	0.442	187.08	3.337	198.75	0.333
140.50	5.914	152.17	0.728	163.83	4.348	175.50	0.445	187.17	3.314	198.83	0.330
140.58	5.851	152.25	0.745	163.92	4.306	175.58	0.449	187.25	3.289	198.92	0.327
140.67	5.787	152.33	0.764	164.00	4.263	175.67	0.454	187.33	3.261	199.00	0.325
140.75	5.721	152.42	0.784	164.08	4.220	175.75	0.461	187.42	3.234	199.08	0.324
140.83	5.655	152.50	0.807	164.17	4.176	175.83	0.468	187.50	3.208	199.17	0.323
140.92	5.590	152.58	0.830	164.25	4.133	175.92	0.477	187.58	3.180	199.25	0.323
141.00	5.523	152.67	0.856	164.33	4.088	176.00	0.486	187.67	3.151	199.33	0.324
141.08	5.456	152.75	0.882	164.42	4.044	176.08	0.496	187.75	3.123	199.42	0.326
141.17	5.390	152.83	0.910	164.50	3.999	176.17	0.507	187.83	3.093	199.50	0.328
141.25	5.321	152.92	0.940	164.58	3.954	176.25	0.519	187.92	3.063	199.58	0.331
141.33	5.252	153.00	0.970	164.67	3.910	176.33	0.533	188.00	3.034	199.67	0.335
141.42	5.184	153.08	1.002	164.75	3.865	176.42	0.548	188.08	3.004	199.75	0.340
141.50	5.116	153.17	1.036	164.83	3.820	176.50	0.564	188.17	2.972	199.83	0.345
141.58	5.048	153.25	1.071	164.92	3.774	176.58	0.581	188.25	2.941	199.92	0.351
141.67	4.980	153.33	1.108	165.00	3.730	176.67	0.600	188.33	2.910	200.00	0.357
141.75	4.913	153.42	1.147	165.08	3.683	176.75	0.619	188.42	2.878	200.08	0.364
141.83	4.846	153.50	1.187	165.17	3.637	176.83	0.639	188.50	2.845	200.17	0.372
141.92	4.781	153.58	1.230	165.25	3.590	176.92	0.660	188.58	2.812	200.25	0.380
142.00	4.717	153.67	1.273	165.33	3.543	177.00	0.682	188.67	2.778	200.33	0.390
142.08	4.653	153.75	1.317	165.42	3.497	177.08	0.705	188.75	2.745	200.42	0.400
142.17	4.588	153.83	1.360	165.50	3.452	177.17	0.729	188.83	2.712	200.50	0.411
142.25	4.522	153.92	1.403	165.58	3.408	177.25	0.754	188.92	2.680	200.58	0.423
142.33	4.456	154.00	1.446	165.67	3.365	177.33	0.780	189.00	2.647	200.67	0.436
142.42	4.391	154.08	1.489	165.75	3.322	177.42	0.807	189.08	2.614	200.75	0.449
142.50	4.327	154.17	1.534	165.83	3.279	177.50	0.833	189.17	2.582	200.83	0.463
142.58	4.263	154.25	1.580	165.92	3.236	177.58	0.861	189.25	2.550	200.92	0.478
142.67	4.200	154.33	1.628	166.00	3.194	177.67	0.889	189.33	2.517	201.00	0.494
142.75	4.138	154.42	1.678	166.08	3.154	177.75	0.917	189.42	2.485	201.08	0.511
142.83	4.076	154.50	1.729	166.17	3.114	177.83	0.947	189.50	2.453	201.17	0.528
142.92	4.014	154.58	1.781	166.25	3.073	177.92	0.978	189.58	2.420	201.25	0.546
143.00	3.954	154.67	1.836	166.33	3.032	178.00	1.009	189.67	2.388	201.33	0.566
143.08	3.895	154.75	1.891	166.42	2.991	178.08	1.042	189.75	2.356	201.42	0.586
143.17	3.834	154.83	1.947	166.50	2.950	178.17	1.076	189.83	2.323	201.50	0.607
143.25	3.775	154.92	2.003	166.58	2.908	178.25	1.111	189.92	2.291	201.58	0.630
143.33	3.715	155.00	2.059	166.67	2.867	178.33	1.147	190.00	2.260	201.67	0.653
143.42	3.656	155.08	2.115	166.75	2.825	178.42	1.184	190.08	2.228	201.75	0.677
143.50	3.596	155.17	2.171	166.83	2.782	178.50	1.223	190.17	2.196	201.83	0.701
143.58	3.536	155.25	2.227	166.92	2.739	178.58	1.262	190.25	2.165	201.92	0.726
143.67	3.477	155.33	2.284	167.00	2.696	178.67	1.302	190.33	2.133	202.00	0.751
143.75	3.419	155.42	2.342	167.08	2.653	178.75	1.341	190.42	2.101	202.08	0.777
143.83	3.362	155.50	2.401	167.17	2.611	178.83	1.379	190.50	2.068	202.17	0.803
143.92	3.308	155.58	2.460	167.25	2.570	178.92	1.417	190.58	2.035	202.25	0.829
144.00	3.254	155.67	2.520	167.33	2.529	179.00	1.454	190.67	2.002	202.33	0.855
144.08	3.202	155.75	2.580	167.42	2.489	179.08	1.492	190.75	1.970	202.42	0.881
144.17	3.150	155.83	2.639	167.50	2.450	179.17	1.530	190.83	1.939	202.50	0.907
144.25	3.099	155.92	2.697	167.58	2.410	179.25	1.570	190.92	1.908	202.58	0.934
144.33	3.050	156.00	2.751	167.67	2.371	179.33	1.611	191.00	1.878	202.67	0.961
144.42	3.002	156.08	2.803	167.75	2.333	179.42	1.652	191.08	1.848	202.75	0.990
144.50	2.955	156.17	2.854	167.83	2.295	179.50	1.694	191.17	1.818	202.83	1.019
144.58	2.908	156.25	2.905	167.92	2.256	179.58	1.737	191.25	1.788	202.92	1.048
144.67	2.862	156.33	2.956	168.00	2.218	179.67	1.780	191.33	1.757	203.00	1.079
144.75	2.814	156.42	3.008	168.08	2.180	179.75	1.824	191.42	1.726	203.08	1.110
144.83	2.766	156.50	3.060	168.17	2.143	179.83	1.869	191.50	1.694	203.17	1.142
144.92	2.717	156.58	3.113	168.25	2.105	179.92	1.913	191.58	1.662	203.25	1.174
145.00	2.669	156.67	3.166	168.33	2.067	180.00	1.957	191.67	1.631	203.33	1.207
145.08	2.620	156.75	3.220	168.42	2.029	180.08	2.000	191.75	1.600	203.42	1.241
145.17	2.573	156.83	3.274	168.50	1.991	180.17	2.043	191.83	1.570	203.50	1.275
145.25	2.527	156.92	3.327	168.58	1.954	180.25	2.085	191.92	1.542	203.58	1.309
145.33	2.482	157.00	3.381	168.67	1.918	180.33	2.127	192.00	1.513	203.67	1.341
145.42	2.437	157.08	3.434	168.75	1.882	180.42	2.169	192.08	1.485	203.75	1.373
145.50	2.392	157.17	3.487	168.83	1.848	180.50	2.211	192.17	1.457	203.83	1.405
145.58	2.348	157.25	3.539	168.92	1.814	180.58	2.254	192.25	1.429	203.92	1.435
145.67	2.304	157.33	3.590	169.00	1.780	180.67	2.297	192.33	1.402	204.00	1.466
145.75	2.260	157.42	3.640	169.08	1.745	180.75	2.339	192.42	1.376	204.08	1.497
145.83	2.216	157.50	3.690	169.17	1.710	180.83	2.382	192.50	1.350	204.17	1.529
145.92	2.174	157.58	3.739	169.25	1.676	180.92	2.424	192.58	1.325	204.25	1.561
146.00	2.132	157.67	3.789	169.33	1.641	181.00	2.466	192.67	1.301	204.33	1.593
146.08	2.089	157.75	3.839	169.42	1.605	181.08	2.508	192.75	1.277	204.42	1.626
146.17	2.047	157.83	3.889	169.50	1.571	181.17	2.548	192.83	1.254	204.50	1.658
146.25	2.005	157.92	3.938	169.58	1.537	181.25	2.586	192.92	1.232	204.58	1.691
146.33	1.963	158.00	3.987	169.67	1.504	181.33	2.622	193.00	1.210	204.67	1.724
146.42	1.923	158.08	4.036	169.75	1.471	181.42	2.656	193.08	1.189	204.75	1.757
146.50	1.884	158.17	4.083	169.83	1.439	181.50	2.688	193.17	1.168	204.83	1.790
146.58	1.846	158.25	4.129	169.92	1.408	181.58	2.720	193.25	1.148	204.92	1.824
146.67	1.809	158.33	4.175	170.00	1.378	181.67	2.752	193.33	1.129	205.00	1.857
146.75	1.771	158.42	4.220	170.08	1.349	181.75	2.785	193.42	1.109	205.08	1.888
146.83	1.733	158.50	4.263	170.17	1.321	181.83	2.818	193.50	1.090	205.17	1.919
146.92	1.694	158.58	4.306	170.25	1.294	181.92	2.851	193.58	1.072	205.25	1.950
147.00	1.656	158.67	4.348	170.33	1.268	182.00	2.883	193.67	1.054	205.33	1.980
147.08	1.618	158.75	4.389	170.42	1.243	182.08	2.915	193.75	1.035	205.42	2.010
147.17	1.579	158.83	4.429	170.50	1.219	182.17	2.948	193.83	1.017	205.50	2.039
147.25	1.542	158.92	4.468	170.58	1.196	182.25	2.980	193.92	0.999	205.58	2.068
147.33	1.504	159.00	4.506	170.67	1.173	182.33	3.011	194.00	0.980	205.67	2.096
147.42	1.467	159.08	4.543	170.75	1.151	182.42	3.042	194.08	0.961	205.75	2.125
147.50	1.431	159.17	4.580	170.83	1.129	182.50	3.072	194.17	0.943	205.83	2.153
147.58	1.397	159.25	4.616	170.92	1.108	182.58	3.102	194.25	0.924	205.92	2.181
147.67	1.365	159.33	4.653	171.00	1.088	182.67	3.130	194.33	0.906	206.00	2.209
147.75	1.333	159.42	4.690	171.08	1.068	182.75	3.158	194.42	0.888	206.08	2.236
147.83	1.303	159.50	4.724	171.17	1.048	182.83	3.186	194.50	0.871	206.17	2.263
147.92	1.274	159.58	4.758	171.25	1.029	182.92	3.213	194.58	0.854	206.25	2.290
148.00	1.247	159.67	4.789	171.33	1.010	183.00	3.239	194.67	0.838	206.33	2.316
148.08	1.220	159.75	4.820	171.42	0.990	183.08	3.265	194.75	0.823	206.42	2.341
148.17	1.195	159.83	4.851	171.50	0.969	183.17	3.290	194.83	0.807	206.50	2.366
148.25	1.171	159.92	4.878	171.58	0.949	183.25	3.315	194.92	0.792	206.58	2.390
148.33	1.147	160.00	4.904	171.67	0.929	183.33	3.338	195.00	0.777	206.67	2.412
148.42	1.124	160.08	4.928	171.75	0.910	183.42	3.360	195.08	0.763	206.75	2.433
148.50	1.102	160.17	4.950	171.83	0.891	183.50	3.382	195.17	0.748	206.83	2.453
148.58	1.080	160.25	4.972	171.92	0.873	183.58	3.402	195.25	0.735	206.92	2.471
148.67	1.059	160.33	4.991	172.00	0.855	183.67	3.422	195.33	0.721	207.00	2.489
148.75	1.038	160.42	5.009	172.08	0.838	183.75	3.442	195.42	0.708	207.08	2.505
148.83	1.017	160.50	5.024	172.17	0.821	183.83	3.459	195.50	0.695	207.17	2.520
148.92	0.995	160.58	5.039	172.25	0.805	183.92	3.476	195.58	0.683	207.25	2.536
149.00	0.974	160.67	5.051	172.33	0.790	184.00	3.493	195.67	0.670	207.33	2.551
149.08	0.952	160.75	5.062	172.42	0.774	184.08	3.509	195.75	0.658	207.42	2.565
149.17	0.931	160.83	5.072	172.50	0.759	184.17	3.524	195.83	0.646	207.50	2.580
149.25	0.911	160.92	5.080	172.58	0.744	184.25	3.537	195.92	0.634	207.58	2.594
149.33	0.891	161.00	5.086	172.67	0.730	184.33	3.550	196.00	0.623	207.67	2.607
149.42	0.871	161.08	5.092	172.75	0.716	184.42	3.562	196.08	0.611	207.75	2.621
149.50	0.853	161.17	5.096	172.83	0.702	184.50	3.573	196.17	0.599	207.83	2.634
149.58	0.835	161.25	5.099	172.92	0.689	184.58	3.582	196.25	0.587	207.92	2.646
149.67	0.818	161.33	5.100	173.00	0.676	184.67	3.590	196.33	0.574	208.00	2.658
149.75	0.802	161.42	5.097	173.08	0.663	184.75	3.598	196.42	0.562	208.08	2.670
149.83	0.785	161.50	5.094	173.17	0.651	184.83	3.604	196.50	0.550	208.17	2.680
149.92	0.769	161.58	5.089	173.25	0.638	184.92	3.610	196.58	0.538	208.25	2.690
150.00	0.754	161.67	5.082	173.33	0.626	185.00	3.614	196.67	0.526	208.33	2.699
150.08	0.739	161.75	5.074	173.42	0.614	185.08	3.618	196.75	0.515	208.42	2.707
150.17	0.724	161.83	5.065	173.50	0.602	185.17	3.620	196.83	0.505	208.50	2.715
150.25	0.711	161.92	5.054	173.58	0.589	185.25	3.622	196.92	0.495	208.58	2.721
150.33	0.699	162.00	5.039	173.67	0.576	185.33	3.623	197.00	0.485	208.67	2.726
150.42	0.688	162.08	5.025	173.75	0.563	185.42	3.620	197.08	0.476	208.75	2.731
150.50	0.678	162.17	5.009	173.83	0.550	185.50	3.618	197.17	0.467	208.83	2.735
150.58	0.668	162.25	4.992	173.92	0.537	185.58	3.616	197.25	0.458	208.92	2.738
150.67	0.660	162.33	4.973	174.00	0.525	185.67	3.611	197.33	0.449	209.00	2.740
150.75	0.653	162.42	4.952	174.08	0.514	185.75	3.602	197.42	0.440	209.08	2.742
150.83	0.647	162.50	4.929	174.17	0.503	185.83	3.595	197.50	0.431	209.17	2.741
150.92	0.642	162.58	4.904	174.25	0.494	185.92	3.588	197.58	0.423	209.25	2.740
151.00	0.638	162.67	4.876	174.33	0.485	186.00	3.580	197.67	0.414	209.33	2.739
151.08	0.635	162.75	4.847	174.42	0.477	186.08	3.570	197.75	0.406	209.42	2.735
151.17	0.632	162.83	4.816	174.50	0.470	186.17	3.557	197.83	0.398	209.50	2.732
151.25	0.631	162.92	4.784	174.58	0.463	186.25	3.540	197.92	0.390	209.58	2.729
151.33	0.632	163.00	4.750	174.67	0.458	186.33	3.524	198.00	0.382	209.67	2.724
151.42	0.634	163.08	4.711	174.75	0.453	186.42	3.508	198.08	0.375	209.75	2.717
151.50	0.638	163.17	4.673	174.83	0.449	186.50	3.491	198.17	0.368	209.83	2.711
151.58	0.644	163.25	4.636	174.92	0.445	186.58	3.471	198.25	0.361	209.92	2.705

TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
210.00	2.698	221.67	0.321	233.33	3.288	245.00	0.444	256.67	0.019	268.33	0.000
210.08	2.690	221.75	0.316	233.42	3.286	245.08	0.435	256.75	0.018	268.42	0.000
210.17	2.681	221.83	0.310	233.50	3.283	245.17	0.427	256.83	0.018	268.50	0.000
210.25	2.671	221.92	0.304	233.58	3.281	245.25	0.419	256.92	0.017	268.58	0.000
210.33	2.660	222.00	0.298	233.67	3.277	245.33	0.410	257.00	0.017	268.67	0.000
210.42	2.648	222.08	0.292	233.75	3.269	245.42	0.402	257.08	0.016	268.75	0.000
210.50	2.635	222.17	0.286	233.83	3.261	245.50	0.394	257.17	0.016	268.83	0.000
210.58	2.620	222.25	0.280	233.92	3.253	245.58	0.386	257.25	0.015	268.92	0.000
210.67	2.605	222.33	0.275	234.00	3.245	245.67	0.379	257.33	0.015	269.00	0.000
210.75	2.589	222.42	0.270	234.08	3.235	245.75	0.371	257.42	0.014	269.08	0.000
210.83	2.572	222.50	0.266	234.17	3.223	245.83	0.364	257.50	0.014	269.17	0.000
210.92	2.554	222.58	0.262	234.25	3.208	245.92	0.357	257.58	0.013	269.25	0.000
211.00	2.536	222.67	0.260	234.33	3.193	246.00	0.350	257.67	0.013	269.33	0.000
211.08	2.517	222.75	0.258	234.42	3.179	246.08	0.343	257.75	0.013	269.42	0.000
211.17	2.497	222.83	0.257	234.50	3.163	246.17	0.337	257.83	0.012	269.50	0.000
211.25	2.478	222.92	0.257	234.58	3.147	246.25	0.331	257.92	0.012	269.58	0.000
211.33	2.460	223.00	0.257	234.67	3.129	246.33	0.324	258.00	0.012	269.67	0.000
211.42	2.439	223.08	0.259	234.75	3.110	246.42	0.318	258.08	0.011	269.75	0.000
211.50	2.418	223.17	0.261	234.83	3.090	246.50	0.313	258.17	0.011	269.83	0.000
211.58	2.397	223.25	0.263	234.92	3.069	246.58	0.307	258.25	0.011	269.92	0.000
211.67	2.374	223.33	0.267	235.00	3.048	246.67	0.301	258.33	0.010	270.00	0.000
211.75	2.351	223.42	0.271	235.08	3.027	246.75	0.294	258.42	0.010	270.08	0.000
211.83	2.329	223.50	0.277	235.17	3.006	246.83	0.288	258.50	0.010	270.17	0.000
211.92	2.306	223.58	0.284	235.25	2.984	246.92	0.281	258.58	0.009	270.25	0.000
212.00	2.282	223.67	0.291	235.33	2.958	247.00	0.275	258.67	0.009	270.33	0.000
212.08	2.258	223.75	0.299	235.42	2.933	247.08	0.268	258.75	0.009	270.42	0.000
212.17	2.233	223.83	0.308	235.50	2.909	247.17	0.262	258.83	0.009	270.50	0.000
212.25	2.209	223.92	0.318	235.58	2.882	247.25	0.255	258.92	0.008	270.58	0.000
212.33	2.184	224.00	0.329	235.67	2.855	247.33	0.250	259.00	0.008	270.67	0.000
212.42	2.160	224.08	0.340	235.75	2.829	247.42	0.244	259.08	0.008	270.75	0.000
212.50	2.134	224.17	0.353	235.83	2.801	247.50	0.239	259.17	0.008	270.83	0.000
212.58	2.108	224.25	0.366	235.92	2.773	247.58	0.234	259.25	0.008	270.92	0.000
212.67	2.082	224.33	0.381	236.00	2.747	247.67	0.230	259.33	0.007	271.00	0.000
212.75	2.056	224.42	0.397	236.08	2.719	247.75	0.225	259.42	0.007	271.08	0.000
212.83	2.030	224.50	0.412	236.17	2.691	247.83	0.221	259.50	0.007	271.17	0.000
212.92	2.004	224.58	0.428	236.25	2.662	247.92	0.217	259.58	0.007	271.25	0.000
213.00	1.979	224.67	0.444	236.33	2.633	248.00	0.213	259.67	0.007	271.33	0.000
213.08	1.954	224.75	0.461	236.42	2.605	248.08	0.209	259.75	0.006	271.42	0.000
213.17	1.929	224.83	0.478	236.50	2.576	248.17	0.205	259.83	0.006	271.50	0.000
213.25	1.904	224.92	0.497	236.58	2.547	248.25	0.202	259.92	0.006	271.58	0.000
213.33	1.878	225.00	0.517	236.67	2.517	248.33	0.198	260.00	0.006	271.67	0.000
213.42	1.852	225.08	0.537	236.75	2.488	248.42	0.194	260.08	0.006	271.75	0.000
213.50	1.826	225.17	0.560	236.83	2.458	248.50	0.191	260.17	0.006	271.83	0.000
213.58	1.799	225.25	0.583	236.92	2.428	248.58	0.188	260.25	0.005	271.92	0.000
213.67	1.772	225.33	0.608	237.00	2.399	248.67	0.184	260.33	0.005	272.00	0.000
213.75	1.744	225.42	0.634	237.08	2.369	248.75	0.181	260.42	0.005	272.08	0.000
213.83	1.717	225.50	0.662	237.17	2.340	248.83	0.178	260.50	0.005	272.17	0.000
213.92	1.690	225.58	0.690	237.25	2.310	248.92	0.174	260.58	0.005	272.25	0.000
214.00	1.663	225.67	0.720	237.33	2.281	249.00	0.171	260.67	0.005	272.33	0.000
214.08	1.637	225.75	0.751	237.42	2.251	249.08	0.168	260.75	0.005	272.42	0.000
214.17	1.612	225.83	0.782	237.50	2.221	249.17	0.165	260.83	0.004	272.50	0.000
214.25	1.587	225.92	0.814	237.58	2.191	249.25	0.162	260.92	0.004	272.58	0.000
214.33	1.563	226.00	0.846	237.67	2.161	249.33	0.159	261.00	0.004	272.67	0.000
214.42	1.540	226.08	0.877	237.75	2.132	249.42	0.156	261.08	0.004	272.75	0.000
214.50	1.516	226.17	0.909	237.83	2.101	249.50	0.153	261.17	0.004	272.83	0.000
214.58	1.492	226.25	0.941	237.92	2.070	249.58	0.150	261.25	0.004	272.92	0.000
214.67	1.468	226.33	0.973	238.00	2.039	249.67	0.147	261.33	0.004	273.00	0.000
214.75	1.444	226.42	1.006	238.08	2.008	249.75	0.145	261.42	0.004	273.08	0.000
214.83	1.421	226.50	1.040	238.17	1.978	249.83	0.142	261.50	0.004	273.17	0.000
214.92	1.397	226.58	1.076	238.25	1.948	249.92	0.139	261.58	0.003	273.25	0.000
215.00	1.373	226.67	1.112	238.33	1.919	250.00	0.137	261.67	0.003	273.33	0.000
215.08	1.351	226.75	1.150	238.42	1.890	250.08	0.134	261.75	0.003	273.42	0.000
215.17	1.328	226.83	1.188	238.50	1.862	250.17	0.131	261.83	0.003	273.50	0.000
215.25	1.306	226.92	1.228	238.58	1.833	250.25	0.129	261.92	0.003	273.58	0.000
215.33	1.285	227.00	1.267	238.67	1.805	250.33	0.126	262.00	0.003	273.67	0.000
215.42	1.264	227.08	1.307	238.75	1.775	250.42	0.124	262.08	0.003	273.75	0.000
215.50	1.244	227.17	1.345	238.83	1.745	250.50	0.121	262.17	0.003	273.83	0.000
215.58	1.224	227.25	1.383	238.92	1.715	250.58	0.119	262.25	0.003	273.92	0.000
215.67	1.205	227.33	1.421	239.00	1.684	250.67	0.116	262.33	0.003	274.00	0.000
215.75	1.185	227.42	1.458	239.08	1.654	250.75	0.114	262.42	0.003	274.08	0.000
215.83	1.167	227.50	1.495	239.17	1.624	250.83	0.112	262.50	0.003	274.17	0.000
215.92	1.148	227.58	1.533	239.25	1.595	250.92	0.109	262.58	0.002	274.25	0.000
216.00	1.130	227.67	1.572	239.33	1.567	251.00	0.107	262.67	0.002	274.33	0.000
216.08	1.112	227.75	1.611	239.42	1.540	251.08	0.104	262.75	0.002	274.42	0.000
216.17	1.095	227.83	1.652	239.50	1.514	251.17	0.102	262.83	0.002	274.50	0.000
216.25	1.077	227.92	1.692	239.58	1.487	251.25	0.100	262.92	0.002	274.58	0.000
216.33	1.060	228.00	1.733	239.67	1.460	251.33	0.098	263.00	0.002	274.67	0.000
216.42	1.043	228.08	1.774	239.75	1.434	251.42	0.096	263.08	0.002	274.75	0.000
216.50	1.026	228.17	1.816	239.83	1.408	251.50	0.094	263.17	0.002	274.83	0.000
216.58	1.009	228.25	1.858	239.92	1.383	251.58	0.092	263.25	0.002	274.92	0.000
216.67	0.992	228.33	1.899	240.00	1.358	251.67	0.090	263.33	0.002	275.00	0.000
216.75	0.974	228.42	1.940	240.08	1.333	251.75	0.088	263.42	0.002	275.08	0.000
216.83	0.957	228.50	1.980	240.17	1.310	251.83	0.086	263.50	0.002	275.17	0.000
216.92	0.939	228.58	2.019	240.25	1.287	251.92	0.084	263.58	0.002	275.25	0.000
217.00	0.921	228.67	2.058	240.33	1.264	252.00	0.082	263.67	0.002	275.33	0.000
217.08	0.904	228.75	2.097	240.42	1.242	252.08	0.080	263.75	0.002	275.42	0.000
217.17	0.888	228.83	2.136	240.50	1.221	252.17	0.079	263.83	0.002	275.50	0.000
217.25	0.872	228.92	2.174	240.58	1.200	252.25	0.077	263.92	0.002	275.58	0.000
217.33	0.856	229.00	2.212	240.67	1.180	252.33	0.076	264.00	0.002	275.67	0.000
217.42	0.841	229.08	2.250	240.75	1.160	252.42	0.074	264.08	0.001	275.75	0.000
217.50	0.826	229.17	2.289	240.83	1.141	252.50	0.072	264.17	0.001	275.83	0.000
217.58	0.812	229.25	2.327	240.92	1.122	252.58	0.071	264.25	0.001	275.92	0.000
217.67	0.797	229.33	2.365	241.00	1.103	252.67	0.069	264.33	0.001	276.00	0.000
217.75	0.783	229.42	2.402	241.08	1.085	252.75	0.074	264.42	0.001	276.08	0.000
217.83	0.769	229.50	2.439	241.17	1.067	252.83	0.066	264.50	0.001	276.17	0.000
217.92	0.755	229.58	2.475	241.25	1.049	252.92	0.065	264.58	0.001	276.25	0.000
218.00	0.742	229.67	2.510	241.33	1.031	253.00	0.064	264.67	0.001	276.33	0.000
218.08	0.729	229.75	2.542	241.42	1.013	253.08	0.062	264.75	0.001	276.42	0.000
218.17	0.716	229.83	2.573	241.50	0.996	253.17	0.061	264.83	0.001	276.50	0.000
218.25	0.704	229.92	2.602	241.58	0.977	253.25	0.059	264.92	0.001	276.58	0.000
218.33	0.692	230.00	2.629	241.67	0.959	253.33	0.058	265.00	0.001	276.67	0.000
218.42	0.679	230.08	2.656	241.75	0.940	253.42	0.057	265.08	0.001	276.75	0.000
218.50	0.668	230.17	2.683	241.83	0.922	253.50	0.055	265.17	0.001	276.83	0.000
218.58	0.656	230.25	2.710	241.92	0.904	253.58	0.054	265.25	0.001	276.92	0.000
218.67	0.645	230.33	2.737	242.00	0.887	253.67	0.053	265.33	0.001	277.00	0.000
218.75	0.633	230.42	2.764	242.08	0.870	253.75	0.051	265.42	0.001	277.08	0.000
218.83	0.622	230.50	2.791	242.17	0.854	253.83	0.050	265.50	0.001	277.17	0.000
218.92	0.611	230.58	2.817	242.25	0.838	253.92	0.049	265.58	0.001	277.25	0.000
219.00	0.600	230.67	2.843	242.33	0.823	254.00	0.047	265.67	0.001	277.33	0.000
219.08	0.587	230.75	2.869	242.42	0.807	254.08	0.046	265.75	0.001	277.42	0.000
219.17	0.575	230.83	2.894	242.50	0.793	254.17	0.045	265.83	0.001	277.50	0.000
219.25	0.564	230.92	2.918	242.58	0.778	254.25	0.044	265.92	0.001	277.58	0.000
219.33	0.552	231.00	2.942	242.67	0.764	254.33	0.042	266.00	0.001	277.67	0.000
219.42	0.541	231.08	2.965	242.75	0.750	254.42	0.041	266.08	0.001	277.75	0.000
219.50	0.530	231.17	2.988	242.83	0.736	254.50	0.040	266.17	0.001	277.83	0.000
219.58	0.519	231.25	3.010	242.92	0.723	254.58	0.039	266.25	0.001	277.92	0.000
219.67	0.509	231.33	3.031	243.00	0.710	254.67	0.038	266.33	0.001	278.00	0.000
219.75	0.500	231.42	3.051	243.08	0.697	254.75	0.037	266.42	0.001	278.08	0.000
219.83	0.490	231.50	3.072	243.17	0.685	254.83	0.036	266.50	0.001	278.17	0.000
219.92	0.481	231.58	3.091	243.25	0.672	254.92	0.035	266.58	0.001	278.25	0.000
220.00	0.472	231.67	3.108	243.33	0.660	255.00	0.034	266.67	0.001	278.33	0.000
220.08	0.463	231.75	3.125	243.42	0.648	255.08	0.033	266.75	0.001	278.42	0.000
220.17	0.455	231.83	3.141	243.50	0.637	255.17	0.032	266.83	0.001	278.50	0.000
220.25	0.446	231.92	3.157	243.58	0.625	255.25	0.031	266.92	0.001	278.58	0.000
220.33	0.438	232.00	3.172	243.67	0.614	255.33	0.030	267.00	0.001	278.67	0.000
220.42	0.429	232.08	3.187	243.75	0.602	255.42	0.029	267.08	0.001	278.75	0.000
220.50	0.421	232.17	3.201	243.83	0.590	255.50	0.029	267.17	0.000	278.83	0.000
220.58	0.413	232.25	3.214	243.92	0.578	255.58	0.028	267.25	0.000	278.92	0.000
220.67	0.405	232.33	3.225	244.00	0.566	255.67	0.027	267.33	0.000	279.00	0.000
220.75	0.397	232.42	3.236	244.08	0.554	255.75	0.026	267.42	0.000	279.08	0.000
220.83	0.389	232.50	3.245	244.17	0.542	255.83	0.025	267.50	0.000	279.17	0.000
220.92	0.381	232.58	3.253	244.25	0.530	255.92	0.025	267.58	0.000	279.25	0.000
221.00	0.374	232.67	3.260	244.33	0.519	256.00	0.024	267.67	0.000	279.33	0.000
221.08	0.367	232.75	3.266	244.42	0.509	256.08	0.023	267.75	0.000	279.42	0.000
221.17	0.360	232.83	3.272	244.50	0.499	256.17	0.023	267.83	0.000	279.50	0.000
221.25	0.353	232.92	3.276	244.58	0.489	256.25	0.022	267.92	0.000	279.58	0.000
221.33	0.346	233.00	3.280	244.67	0.480	256.33	0.021	268.00	0.000	279.67	0.000
221.42	0.340	233.08	3.283	244.75	0.471	256.42	0.021	268.08	0.000	279.75	0.000
221.50	0.334	233.17	3.285	244.83	0.462	256.50	0.020	268.17	0.000	279.83	0.000
221.58	0.327	233.25	3.288	244.92	0.453	256.58	0.020	268.25	0.000	279.92	0.000

MOORE (VG SPRING)



Hydrograph Statistics:

Legend	Filename & Comment	Time Step (min)	Drainage Area (ha)	Peak Flow (cms)	Time to Peak (hrs)	Runoff Volume (mm)	Runoff Volume (cu.m)	Duration of flow (hrs)	Average flow (cms)
	H-MOORE.100 : Moore	5.00	133.40	2.132	113.917	251.64	3.357E+05	264.417	0.353

Hydrograph Table:

Hydrograph Filename : Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSPRI~1\H-MOORE.100
Comment in file : Moore

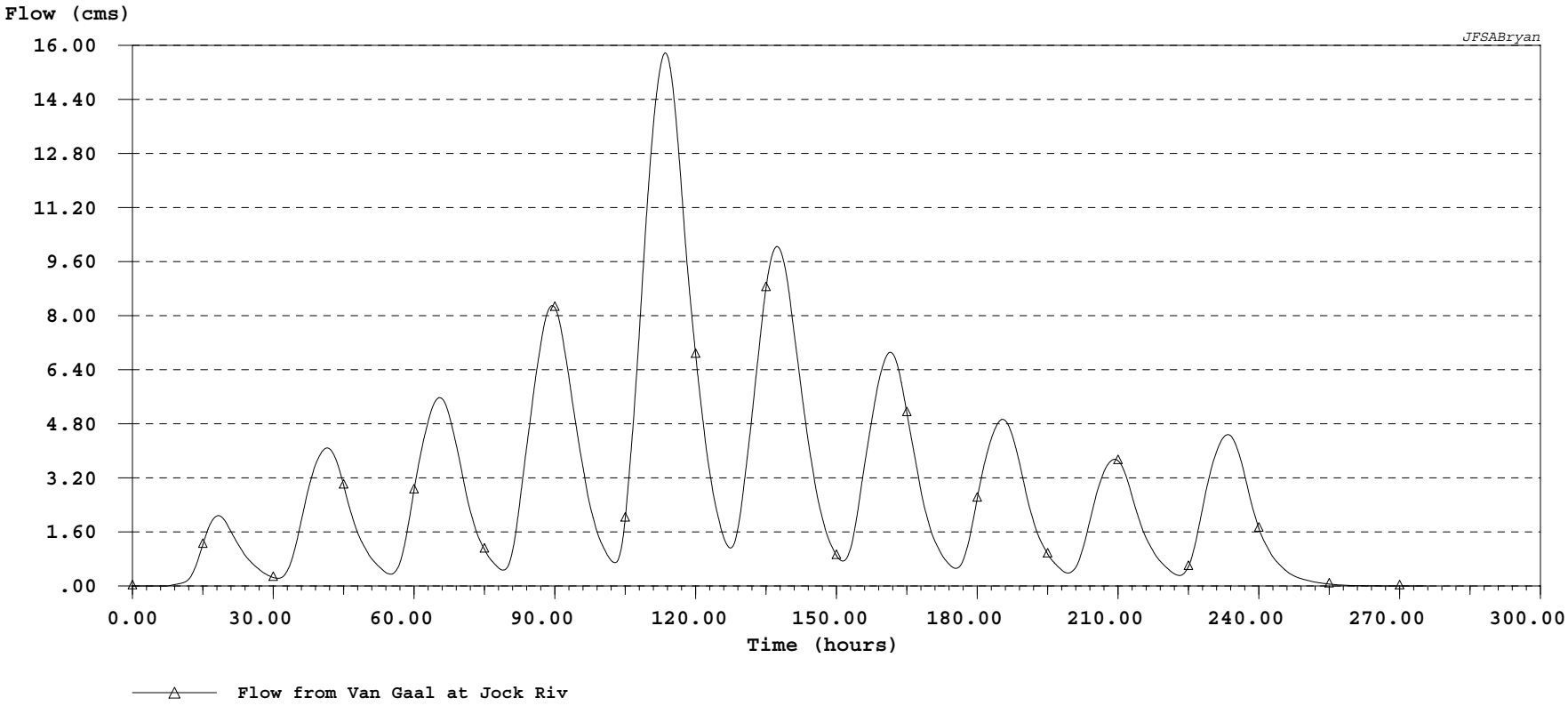
TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
0.00	0.000	11.67	0.010	23.33	0.110	35.00	0.178	46.67	0.205	58.33	0.187
0.08	0.000	11.75	0.012	23.42	0.107	35.08	0.186	46.75	0.199	58.42	0.196
0.17	0.000	11.83	0.014	23.50	0.104	35.17	0.193	46.83	0.193	58.50	0.206
0.25	0.000	11.92	0.016	23.58	0.101	35.25	0.201	46.92	0.188	58.58	0.216
0.33	0.000	12.00	0.018	23.67	0.098	35.33	0.208	47.00	0.183	58.67	0.226
0.42	0.000	12.08	0.020	23.75	0.095	35.42	0.216	47.08	0.177	58.75	0.236
0.50	0.000	12.17	0.022	23.83	0.092	35.50	0.223	47.17	0.172	58.83	0.246
0.58	0.000	12.25	0.025	23.92	0.090	35.58	0.231	47.25	0.167	58.92	0.256
0.67	0.000	12.33	0.027	24.00	0.087	35.67	0.239	47.33	0.162	59.00	0.267
0.75	0.000	12.42	0.030	24.08	0.085	35.75	0.247	47.42	0.157	59.08	0.277
0.83	0.000	12.50	0.033	24.17	0.082	35.83	0.255	47.50	0.153	59.17	0.288
0.92	0.000	12.58	0.036	24.25	0.080	35.92	0.263	47.58	0.148	59.25	0.299
1.00	0.000	12.67	0.040	24.33	0.077	36.00	0.271	47.67	0.144	59.33	0.310
1.08	0.000	12.75	0.043	24.42	0.075	36.08	0.279	47.75	0.140	59.42	0.321
1.17	0.000	12.83	0.047	24.50	0.073	36.17	0.287	47.83	0.135	59.50	0.332
1.25	0.000	12.92	0.051	24.58	0.071	36.25	0.295	47.92	0.131	59.58	0.340
1.33	0.000	13.00	0.055	24.67	0.068	36.33	0.303	48.00	0.127	59.67	0.345
1.42	0.000	13.08	0.059	24.75	0.066	36.42	0.311	48.08	0.123	59.75	0.349
1.50	0.000	13.17	0.063	24.83	0.064	36.50	0.319	48.17	0.120	59.83	0.354
1.58	0.000	13.25	0.068	24.92	0.062	36.58	0.327	48.25	0.116	59.92	0.360
1.67	0.000	13.33	0.072	25.00	0.061	36.67	0.335	48.33	0.112	60.00	0.367
1.75	0.000	13.42	0.077	25.08	0.059	36.75	0.343	48.42	0.109	60.08	0.375
1.83	0.000	13.50	0.082	25.17	0.057	36.83	0.350	48.50	0.105	60.17	0.383
1.92	0.000	13.58	0.087	25.25	0.055	36.92	0.355	48.58	0.102	60.25	0.391
2.00	0.000	13.67	0.092	25.33	0.053	37.00	0.357	48.67	0.099	60.33	0.398
2.08	0.000	13.75	0.097	25.42	0.052	37.08	0.360	48.75	0.096	60.42	0.404
2.17	0.000	13.83	0.102	25.50	0.050	37.17	0.365	48.83	0.093	60.50	0.411
2.25	0.000	13.92	0.107	25.58	0.049	37.25	0.369	48.92	0.090	60.58	0.418
2.33	0.000	14.00	0.113	25.67	0.047	37.33	0.374	49.00	0.087	60.67	0.424
2.42	0.000	14.08	0.118	25.75	0.046	37.42	0.380	49.08	0.084	60.75	0.432
2.50	0.000	14.17	0.124	25.83	0.044	37.50	0.385	49.17	0.082	60.83	0.439
2.58	0.000	14.25	0.129	25.92	0.043	37.58	0.391	49.25	0.079	60.92	0.446
2.67	0.000	14.33	0.135	26.00	0.041	37.67	0.395	49.33	0.076	61.00	0.454
2.75	0.000	14.42	0.140	26.08	0.040	37.75	0.400	49.42	0.074	61.08	0.461
2.83	0.000	14.50	0.146	26.17	0.039	37.83	0.404	49.50	0.071	61.17	0.469
2.92	0.000	14.58	0.152	26.25	0.037	37.92	0.408	49.58	0.069	61.25	0.476
3.00	0.000	14.67	0.157	26.33	0.036	38.00	0.413	49.67	0.067	61.33	0.484
3.08	0.000	14.75	0.163	26.42	0.035	38.08	0.418	49.75	0.065	61.42	0.491
3.17	0.000	14.83	0.169	26.50	0.034	38.17	0.423	49.83	0.063	61.50	0.499
3.25	0.000	14.92	0.174	26.58	0.033	38.25	0.428	49.92	0.060	61.58	0.506
3.33	0.000	15.00	0.180	26.67	0.032	38.33	0.433	50.00	0.058	61.67	0.514
3.42	0.000	15.08	0.186	26.75	0.031	38.42	0.438	50.08	0.057	61.75	0.521
3.50	0.000	15.17	0.191	26.83	0.030	38.50	0.442	50.17	0.055	61.83	0.529
3.58	0.000	15.25	0.197	26.92	0.029	38.58	0.447	50.25	0.053	61.92	0.536
3.67	0.000	15.33	0.202	27.00	0.028	38.67	0.452	50.33	0.051	62.00	0.543
3.75	0.000	15.42	0.208	27.08	0.027	38.75	0.457	50.42	0.049	62.08	0.551
3.83	0.000	15.50	0.213	27.17	0.026	38.83	0.461	50.50	0.048	62.17	0.558
3.92	0.000	15.58	0.218	27.25	0.025	38.92	0.466	50.58	0.046	62.25	0.565
4.00	0.000	15.67	0.223	27.33	0.024	39.00	0.471	50.67	0.044	62.33	0.572
4.08	0.000	15.75	0.228	27.42	0.023	39.08	0.475	50.75	0.043	62.42	0.579
4.17	0.000	15.83	0.233	27.50	0.023	39.17	0.480	50.83	0.041	62.50	0.586
4.25	0.000	15.92	0.238	27.58	0.022	39.25	0.484	50.92	0.040	62.58	0.593
4.33	0.000	16.00	0.243	27.67	0.021	39.33	0.488	51.00	0.039	62.67	0.599
4.42	0.000	16.08	0.248	27.75	0.020	39.42	0.493	51.08	0.037	62.75	0.606
4.50	0.000	16.17	0.252	27.83	0.020	39.50	0.497	51.17	0.036	62.83	0.612
4.58	0.000	16.25	0.256	27.92	0.019	39.58	0.501	51.25	0.035	62.92	0.619
4.67	0.000	16.33	0.261	28.00	0.018	39.67	0.505	51.33	0.034	63.00	0.625
4.75	0.000	16.42	0.265	28.08	0.018	39.75	0.508	51.42	0.033	63.08	0.631
4.83	0.000	16.50	0.269	28.17	0.017	39.83	0.512	51.50	0.031	63.17	0.637
4.92	0.000	16.58	0.273	28.25	0.017	39.92	0.516	51.58	0.030	63.25	0.643
5.00	0.000	16.67	0.276	28.33	0.016	40.00	0.519	51.67	0.029	63.33	0.650
5.08	0.000	16.75	0.280	28.42	0.016	40.08	0.523	51.75	0.028	63.42	0.654
5.17	0.000	16.83	0.283	28.50	0.015	40.17	0.526	51.83	0.027	63.50	0.658
5.25	0.000	16.92	0.286	28.58	0.015	40.25	0.529	51.92	0.026	63.58	0.664
5.33	0.000	17.00	0.289	28.67	0.014	40.33	0.532	52.00	0.025	63.67	0.669
5.42	0.000	17.08	0.292	28.75	0.014	40.42	0.535	52.08	0.024	63.75	0.674
5.50	0.000	17.17	0.294	28.83	0.013	40.50	0.537	52.17	0.023	63.83	0.678
5.58	0.000	17.25	0.297	28.92	0.013	40.58	0.540	52.25	0.023	63.92	0.683
5.67	0.000	17.33	0.299	29.00	0.012	40.67	0.543	52.33	0.022	64.00	0.688
5.75	0.000	17.42	0.301	29.08	0.012	40.75	0.545	52.42	0.021	64.08	0.693
5.83	0.000	17.50	0.303	29.17	0.011	40.83	0.547	52.50	0.020	64.17	0.697
5.92	0.000	17.58	0.305	29.25	0.011	40.92	0.549	52.58	0.019	64.25	0.702
6.00	0.000	17.67	0.306	29.33	0.010	41.00	0.552	52.67	0.019	64.33	0.706
6.08	0.000	17.75	0.308	29.42	0.010	41.08	0.553	52.75	0.018	64.42	0.710
6.17	0.000	17.83	0.309	29.50	0.010	41.17	0.553	52.83	0.017	64.50	0.714
6.25	0.000	17.92	0.309	29.58	0.009	41.25	0.556	52.92	0.017	64.58	0.718
6.33	0.000	18.00	0.310	29.67	0.009	41.33	0.558	53.00	0.016	64.67	0.721
6.42	0.000	18.08	0.310	29.75	0.009	41.42	0.558	53.08	0.016	64.75	0.725
6.50	0.000	18.17	0.311	29.83	0.008	41.50	0.558	53.17	0.015	64.83	0.728
6.58	0.000	18.25	0.311	29.92	0.008	41.58	0.560	53.25	0.015	64.92	0.731
6.67	0.000	18.33	0.311	30.00	0.008	41.67	0.561	53.33	0.014	65.00	0.733
6.75	0.000	18.42	0.310	30.08	0.007	41.75	0.561	53.42	0.013	65.08	0.736
6.83	0.000	18.50	0.310	30.17	0.007	41.83	0.560	53.50	0.013	65.17	0.738
6.92	0.000	18.58	0.309	30.25	0.007	41.92	0.561	53.58	0.012	65.25	0.740
7.00	0.000	18.67	0.308	30.33	0.007	42.00	0.561	53.67	0.012	65.33	0.742
7.08	0.000	18.75	0.307	30.42	0.007	42.08	0.561	53.75	0.011	65.42	0.746
7.17	0.000	18.83	0.305	30.50	0.007	42.17	0.561	53.83	0.011	65.50	0.746
7.25	0.000	18.92	0.304	30.58	0.006	42.25	0.561	53.92	0.010	65.58	0.746
7.33	0.000	19.00	0.302	30.67	0.006	42.33	0.560	54.00	0.010	65.67	0.748
7.42	0.000	19.08	0.300	30.75	0.006	42.42	0.559	54.08	0.010	65.75	0.750
7.50	0.000	19.17	0.298	30.83	0.007	42.50	0.557	54.17	0.009	65.83	0.749
7.58	0.000	19.25	0.295	30.92	0.007	42.58	0.555	54.25	0.009	65.92	0.748
7.67	0.000	19.33	0.293	31.00	0.007	42.67	0.553	54.33	0.009	66.00	0.750
7.75	0.000	19.42	0.290	31.08	0.007	42.75	0.551	54.42	0.009	66.08	0.751
7.83	0.000	19.50	0.287	31.17	0.007	42.83	0.548	54.50	0.009	66.17	0.751
7.92	0.000	19.58	0.284	31.25	0.008	42.92	0.545	54.58	0.009	66.25	0.749
8.00	0.000	19.67	0.281	31.33	0.008	43.00	0.542	54.67	0.009	66.33	0.747
8.08	0.000	19.75	0.278	31.42	0.008	43.08	0.541	54.75	0.009	66.42	0.747
8.17	0.000	19.83	0.274	31.50	0.009	43.17	0.538	54.83	0.009	66.50	0.746
8.25	0.000	19.92	0.271	31.58	0.010	43.25	0.534	54.92	0.009	66.58	0.746
8.33	0.000	20.00	0.267	31.67	0.010	43.33	0.531	55.00	0.009	66.67	0.745
8.42	0.000	20.08	0.263	31.75	0.011	43.42	0.528	55.08	0.009	66.75	0.743
8.50	0.000	20.17	0.259	31.83	0.012	43.50	0.522	55.17	0.010	66.83	0.741
8.58	0.000	20.25	0.255	31.92	0.013	43.58	0.520	55.25	0.010	66.92	0.739
8.67	0.000	20.33	0.251	32.00	0.015	43.67	0.516	55.33	0.011	67.00	0.736
8.75	0.000	20.42	0.247	32.08	0.016	43.75	0.509	55.42	0.012	67.08	0.733
8.83	0.000	20.50	0.243	32.17	0.017	43.83	0.504	55.50	0.013	67.17	0.730
8.92	0.000	20.58	0.239	32.25	0.019	43.92	0.501	55.58	0.014	67.25	0.726
9.00	0.000	20.67	0.235	32.33	0.021	44.00	0.495	55.67	0.015	67.33	0.722
9.08	0.000	20.75	0.231	32.42	0.023	44.08	0.488	55.75	0.016	67.42	0.718
9.17	0.000	20.83	0.226	32.50	0.025	44.17	0.483	55.83	0.018	67.50	0.713
9.25	0.000	20.92	0.222	32.58	0.028	44.25	0.474	55.92	0.019	67.58	0.710
9.33	0.000	21.00	0.218	32.67	0.030	44.33	0.466	56.00	0.021	67.67	0.708
9.42	0.000	21.08	0.213	32.75	0.033	44.42	0.457	56.08	0.024	67.75	0.701
9.50	0.000	21.17	0.209	32.83	0.036	44.50	0.447	56.17	0.026	67.83	0.695
9.58	0.000	21.25	0.205	32.92	0.039	44.58	0.438	56.25	0.029	67.92	0.691
9.67	0.000	21.33	0.200	33.00	0.043	44.67	0.429	56.33	0.032	68.00	0.687
9.75	0.000	21.42	0.196	33.08	0.046	44.75	0.419	56.42	0.035	68.08	0.678
9.83	0.000	21.50	0.192	33.17	0.050	44.83	0.410	56.50	0.039	68.17	0.673
9.92	0.000	21.58	0.188	33.25	0.054	44.92	0.401	56.58	0.043	68.25	0.668
10.00	0.000	21.67	0.183	33.33	0.058	45.00	0.391	56.67	0.047	68.33	0.661
10.08	0.000	21.75	0.179	33.42	0.063	45.08	0.382	56.75	0.051	68.42	0.653
10.17	0.000	21.83	0.175	33.50	0.068	45.17	0.373	56.83	0.056	68.50	0.647
10.25	0.000	21.92	0.171	33.58	0.072	45.25	0.364	56.92	0.061	68.58	0.640
10.33	0.000	22.00	0.167	33.67	0.077	45.33	0.350	57.00	0.066	68.67	0.632
10.42	0.000	22.08	0.163	33.75	0.082	45.42	0.335	57.08	0.072	68.75	0.623
10.50	0.001	22.17	0.159	33.83	0.088	45.50	0.321	57.17	0.078	68.83	0.613
10.58	0.001	22.25	0.155	33.92	0.093	45.58	0.308	57.25	0.084	68.92	0.605
10.67	0.001	22.33	0.151	34.00	0.099	45.67	0.297	57.33	0.090	69.00	0.596
10.75	0.001	22.42	0.147	34.08	0.105	45.75	0.287	57.42	0.097	69.08	0.587
10.83	0.002	22.50	0.144	34.17	0.111	45.83	0.277	57.50	0.104	69.17	0.578
10.92	0.002	22.58	0.140	34.25	0.117	45.92	0.268	57.58	0.111	69.25	0.569
11.00	0.002	22.67	0.137	34.33	0.123	46.00	0.260	57.67	0.119	69.33	0.559
11.08	0.003	22.75	0.133	34.42	0.129	46.08	0.252	57.75	0.126	69.42	0.544
11.17	0.004	22.83	0.129	34.50	0.136	46.17	0.245	57.83	0.134	69.50	0.531
11.25	0.005	22.92	0.126	34.58	0.143	46.25	0.237	57.92	0.142	69.58	0.517
11.33	0.005	23.00	0.123	34.67	0.150	46.33	0.230	58.00	0.151	69.67	0.504
11.42	0.006	23.08	0.119	34.75	0.157	46.42	0.224	58.08	0.159	69.75	0.490
11.50	0.008	23.17	0.116	34.83	0.164	46.50	0.217	58.17	0.168	69.83	0.477
11.58	0.009	23.25	0.113	34.92	0.171	46.58	0.211	58.25	0.177	69.92	0.464

TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
70.00	0.451	81.67	0.185	93.33	0.837	105.00	0.210	116.67	1.748	128.33	0.067
70.08	0.438	81.75	0.197	93.42	0.821	105.08	0.228	116.75	1.725	128.42	0.073
70.17	0.424	81.83	0.209	93.50	0.805	105.17	0.246	116.83	1.702	128.50	0.080
70.25	0.412	81.92	0.222	93.58	0.790	105.25	0.265	116.92	1.678	128.58	0.088
70.33	0.399	82.00	0.234	93.67	0.774	105.33	0.285	117.00	1.655	128.67	0.096
70.42	0.386	82.08	0.248	93.75	0.758	105.42	0.300	117.08	1.633	128.75	0.104
70.50	0.373	82.17	0.261	93.83	0.742	105.50	0.308	117.17	1.610	128.83	0.113
70.58	0.361	82.25	0.275	93.92	0.731	105.58	0.317	117.25	1.587	128.92	0.123
70.67	0.347	82.33	0.289	94.00	0.718	105.67	0.327	117.33	1.565	129.00	0.133
70.75	0.331	82.42	0.304	94.08	0.704	105.75	0.340	117.42	1.541	129.08	0.143
70.83	0.311	82.50	0.318	94.17	0.693	105.83	0.353	117.50	1.517	129.17	0.155
70.92	0.293	82.58	0.327	94.25	0.682	105.92	0.367	117.58	1.492	129.25	0.166
71.00	0.278	82.67	0.332	94.33	0.669	106.00	0.383	117.67	1.468	129.33	0.178
71.08	0.264	82.75	0.338	94.42	0.657	106.08	0.398	117.75	1.441	129.42	0.191
71.17	0.252	82.83	0.346	94.50	0.645	106.17	0.414	117.83	1.413	129.50	0.204
71.25	0.241	82.92	0.355	94.58	0.627	106.25	0.428	117.92	1.383	129.58	0.218
71.33	0.231	83.00	0.365	94.67	0.610	106.33	0.442	118.00	1.354	129.67	0.232
71.42	0.221	83.08	0.375	94.75	0.594	106.42	0.456	118.08	1.325	129.75	0.247
71.50	0.213	83.17	0.386	94.83	0.577	106.50	0.468	118.17	1.300	129.83	0.262
71.58	0.205	83.25	0.397	94.92	0.560	106.58	0.480	118.25	1.282	129.92	0.277
71.67	0.197	83.33	0.407	95.00	0.544	106.67	0.492	118.33	1.266	130.00	0.293
71.75	0.190	83.42	0.415	95.08	0.527	106.75	0.505	118.42	1.250	130.08	0.309
71.83	0.184	83.50	0.425	95.17	0.511	106.83	0.524	118.50	1.233	130.17	0.320
71.92	0.177	83.58	0.435	95.25	0.495	106.92	0.544	118.58	1.215	130.25	0.325
72.00	0.171	83.67	0.445	95.33	0.479	107.00	0.564	118.67	1.197	130.33	0.332
72.08	0.165	83.75	0.455	95.42	0.463	107.08	0.584	118.75	1.177	130.42	0.341
72.17	0.160	83.83	0.465	95.50	0.447	107.17	0.604	118.83	1.157	130.50	0.351
72.25	0.155	83.92	0.476	95.58	0.431	107.25	0.625	118.92	1.136	130.58	0.362
72.33	0.150	84.00	0.486	95.67	0.416	107.33	0.646	119.00	1.116	130.67	0.373
72.42	0.145	84.08	0.497	95.75	0.401	107.42	0.667	119.08	1.094	130.75	0.385
72.50	0.140	84.17	0.508	95.83	0.386	107.50	0.686	119.17	1.072	130.83	0.398
72.58	0.135	84.25	0.519	95.92	0.372	107.58	0.705	119.25	1.049	130.92	0.409
72.67	0.131	84.33	0.530	96.00	0.357	107.67	0.723	119.33	1.025	131.00	0.420
72.75	0.127	84.42	0.540	96.08	0.342	107.75	0.742	119.42	1.001	131.08	0.430
72.83	0.123	84.50	0.548	96.17	0.321	107.83	0.761	119.50	0.977	131.17	0.441
72.92	0.119	84.58	0.557	96.25	0.299	107.92	0.780	119.58	0.951	131.25	0.453
73.00	0.115	84.67	0.567	96.33	0.278	108.00	0.799	119.67	0.924	131.33	0.465
73.08	0.111	84.75	0.576	96.42	0.260	108.08	0.818	119.75	0.895	131.42	0.477
73.17	0.107	84.83	0.586	96.50	0.244	108.17	0.837	119.83	0.866	131.50	0.489
73.25	0.104	84.92	0.598	96.58	0.230	108.25	0.856	119.92	0.837	131.58	0.501
73.33	0.100	85.00	0.611	96.67	0.217	108.33	0.877	120.00	0.809	131.67	0.512
73.42	0.097	85.08	0.624	96.75	0.206	108.42	0.902	120.08	0.782	131.75	0.522
73.50	0.094	85.17	0.637	96.83	0.196	108.50	0.930	120.17	0.753	131.83	0.532
73.58	0.091	85.25	0.649	96.92	0.187	108.58	0.958	120.25	0.723	131.92	0.542
73.67	0.088	85.33	0.662	97.00	0.178	108.67	0.986	120.33	0.701	132.00	0.553
73.75	0.085	85.42	0.674	97.08	0.171	108.75	1.014	120.42	0.679	132.08	0.566
73.83	0.082	85.50	0.686	97.17	0.164	108.83	1.042	120.50	0.658	132.17	0.581
73.92	0.079	85.58	0.697	97.25	0.157	108.92	1.071	120.58	0.637	132.25	0.596
74.00	0.076	85.67	0.708	97.33	0.151	109.00	1.100	120.67	0.617	132.33	0.611
74.08	0.074	85.75	0.719	97.42	0.145	109.08	1.129	120.75	0.596	132.42	0.626
74.17	0.071	85.83	0.729	97.50	0.139	109.17	1.158	120.83	0.576	132.50	0.642
74.25	0.069	85.92	0.740	97.58	0.134	109.25	1.186	120.92	0.557	132.58	0.657
74.33	0.067	86.00	0.751	97.67	0.129	109.33	1.214	121.00	0.538	132.67	0.671
74.42	0.064	86.08	0.762	97.75	0.124	109.42	1.242	121.08	0.519	132.75	0.685
74.50	0.062	86.17	0.773	97.83	0.120	109.50	1.270	121.17	0.500	132.83	0.699
74.58	0.060	86.25	0.783	97.92	0.115	109.58	1.297	121.25	0.481	132.92	0.713
74.67	0.058	86.33	0.794	98.00	0.111	109.67	1.324	121.33	0.463	133.00	0.726
74.75	0.056	86.42	0.804	98.08	0.107	109.75	1.351	121.42	0.445	133.08	0.740
74.83	0.054	86.50	0.814	98.17	0.103	109.83	1.378	121.50	0.427	133.17	0.753
74.92	0.052	86.58	0.824	98.25	0.100	109.92	1.404	121.58	0.411	133.25	0.767
75.00	0.050	86.67	0.834	98.33	0.096	110.00	1.430	121.67	0.393	133.33	0.780
75.08	0.048	86.75	0.844	98.42	0.093	110.08	1.455	121.75	0.376	133.42	0.794
75.17	0.047	86.83	0.854	98.50	0.089	110.17	1.480	121.83	0.359	133.50	0.807
75.25	0.045	86.92	0.866	98.58	0.086	110.25	1.505	121.92	0.343	133.58	0.820
75.33	0.043	87.00	0.879	98.67	0.083	110.33	1.530	122.00	0.322	133.67	0.833
75.42	0.042	87.08	0.893	98.75	0.080	110.42	1.554	122.08	0.296	133.75	0.846
75.50	0.040	87.17	0.906	98.83	0.077	110.50	1.578	122.17	0.272	133.83	0.859
75.58	0.039	87.25	0.918	98.92	0.074	110.58	1.601	122.25	0.251	133.92	0.876
75.67	0.038	87.33	0.931	99.00	0.072	110.67	1.624	122.33	0.233	134.00	0.894
75.75	0.036	87.42	0.942	99.08	0.069	110.75	1.647	122.42	0.217	134.08	0.912
75.83	0.035	87.50	0.954	99.17	0.067	110.83	1.669	122.50	0.203	134.17	0.930
75.92	0.034	87.58	0.965	99.25	0.065	110.92	1.691	122.58	0.191	134.25	0.948
76.00	0.033	87.67	0.976	99.33	0.062	111.00	1.712	122.67	0.179	134.33	0.965
76.08	0.031	87.75	0.986	99.42	0.060	111.08	1.733	122.75	0.169	134.42	0.982
76.17	0.030	87.83	0.996	99.50	0.058	111.17	1.754	122.83	0.160	134.50	0.999
76.25	0.029	87.92	1.006	99.58	0.056	111.25	1.775	122.92	0.152	134.58	1.015
76.33	0.028	88.00	1.015	99.67	0.054	111.33	1.796	123.00	0.145	134.67	1.032
76.42	0.027	88.08	1.024	99.75	0.052	111.42	1.816	123.08	0.138	134.75	1.048
76.50	0.026	88.17	1.033	99.83	0.050	111.50	1.836	123.17	0.131	134.83	1.063
76.58	0.025	88.25	1.041	99.92	0.048	111.58	1.856	123.25	0.125	134.92	1.078
76.67	0.024	88.33	1.049	100.00	0.046	111.67	1.875	123.33	0.120	135.00	1.093
76.75	0.023	88.42	1.056	100.08	0.044	111.75	1.893	123.42	0.115	135.08	1.108
76.83	0.022	88.50	1.064	100.17	0.043	111.83	1.910	123.50	0.110	135.17	1.123
76.92	0.022	88.58	1.070	100.25	0.041	111.92	1.927	123.58	0.105	135.25	1.136
77.00	0.021	88.67	1.077	100.33	0.040	112.00	1.943	123.67	0.101	135.33	1.149
77.08	0.020	88.75	1.083	100.42	0.038	112.08	1.959	123.75	0.097	135.42	1.163
77.17	0.019	88.83	1.088	100.50	0.037	112.17	1.974	123.83	0.093	135.50	1.175
77.25	0.018	88.92	1.093	100.58	0.035	112.25	1.988	123.92	0.089	135.58	1.188
77.33	0.018	89.00	1.098	100.67	0.034	112.33	2.002	124.00	0.085	135.67	1.199
77.42	0.017	89.08	1.102	100.75	0.033	112.42	2.015	124.08	0.082	135.75	1.211
77.50	0.017	89.17	1.106	100.83	0.032	112.50	2.028	124.17	0.079	135.83	1.222
77.58	0.016	89.25	1.110	100.92	0.030	112.58	2.040	124.25	0.075	135.92	1.233
77.67	0.015	89.33	1.113	101.00	0.029	112.67	2.051	124.33	0.073	136.00	1.243
77.75	0.015	89.42	1.115	101.08	0.028	112.75	2.061	124.42	0.070	136.08	1.253
77.83	0.014	89.50	1.118	101.17	0.027	112.83	2.071	124.50	0.067	136.17	1.263
77.92	0.013	89.58	1.120	101.25	0.026	112.92	2.080	124.58	0.064	136.25	1.272
78.00	0.013	89.67	1.121	101.33	0.025	113.00	2.088	124.67	0.062	136.33	1.281
78.08	0.012	89.75	1.123	101.42	0.024	113.08	2.096	124.75	0.059	136.42	1.289
78.17	0.012	89.83	1.123	101.50	0.023	113.17	2.103	124.83	0.057	136.50	1.297
78.25	0.012	89.92	1.124	101.58	0.022	113.25	2.109	124.92	0.054	136.58	1.305
78.33	0.011	90.00	1.123	101.67	0.021	113.33	2.114	125.00	0.052	136.67	1.312
78.42	0.011	90.08	1.122	101.75	0.020	113.42	2.119	125.08	0.050	136.75	1.319
78.50	0.011	90.17	1.121	101.83	0.020	113.50	2.123	125.17	0.048	136.83	1.325
78.58	0.011	90.25	1.120	101.92	0.019	113.58	2.127	125.25	0.046	136.92	1.330
78.67	0.011	90.33	1.118	102.00	0.018	113.67	2.129	125.33	0.044	137.00	1.336
78.75	0.011	90.42	1.116	102.08	0.017	113.75	2.131	125.42	0.043	137.08	1.341
78.83	0.011	90.50	1.113	102.17	0.017	113.83	2.132	125.50	0.041	137.17	1.345
78.92	0.012	90.58	1.110	102.25	0.016	113.92	2.132	125.58	0.039	137.25	1.350
79.00	0.012	90.67	1.106	102.33	0.016	114.00	2.131	125.67	0.038	137.33	1.353
79.08	0.013	90.75	1.103	102.42	0.016	114.08	2.130	125.75	0.036	137.42	1.356
79.17	0.013	90.83	1.099	102.50	0.015	114.17	2.128	125.83	0.035	137.50	1.358
79.25	0.014	90.92	1.094	102.58	0.015	114.25	2.125	125.92	0.033	137.58	1.361
79.33	0.015	91.00	1.089	102.67	0.016	114.33	2.121	126.00	0.032	137.67	1.363
79.42	0.016	91.08	1.084	102.75	0.016	114.42	2.116	126.08	0.030	137.75	1.364
79.50	0.018	91.17	1.078	102.83	0.017	114.50	2.111	126.17	0.029	137.83	1.365
79.58	0.019	91.25	1.071	102.92	0.017	114.58	2.105	126.25	0.028	137.92	1.365
79.67	0.021	91.33	1.064	103.00	0.018	114.67	2.098	126.33	0.027	138.00	1.365
79.75	0.024	91.42	1.057	103.08	0.020	114.75	2.090	126.42	0.026	138.08	1.364
79.83	0.026	91.50	1.049	103.17	0.021	114.83	2.082	126.50	0.025	138.17	1.363
79.92	0.029	91.58	1.041	103.25	0.023	114.92	2.073	126.58	0.025	138.25	1.361
80.00	0.032	91.67	1.032	103.33	0.025	115.00	2.063	126.67	0.024	138.33	1.359
80.08	0.036	91.75	1.022	103.42	0.028	115.08	2.052	126.75	0.024	138.42	1.356
80.17	0.040	91.83	1.011	103.50	0.031	115.17	2.042	126.83	0.024	138.50	1.352
80.25	0.045	91.92	1.001	103.58	0.035	115.25	2.031	126.92	0.024	138.58	1.348
80.33	0.049	92.00	0.994	103.67	0.039	115.33	2.021	127.00	0.024	138.67	1.344
80.42	0.055	92.08	0.990	103.75	0.044	115.42	2.010	127.08	0.025	138.75	1.339
80.50	0.060	92.17	0.985	103.83	0.050	115.50	1.998	127.17	0.025	138.83	1.333
80.58	0.066	92.25	0.979	103.92	0.056	115.58	1.985	127.25	0.026	138.92	1.328
80.67	0.073	92.33	0.972	104.00	0.063	115.67	1.971	127.33	0.027	139.00	1.323
80.75	0.080	92.42	0.965	104.08	0.071	115.75	1.957	127.42	0.028	139.08	1.315
80.83	0.087	92.50	0.957	104.17	0.080	115.83	1.941	127.50	0.030	139.17	1.308
80.92	0.095	92.58	0.949	104.25	0.089	115.92	1.925	127.58	0.032	139.25	1.301
81.00	0.104	92.67	0.939	104.33	0.099	116.00	1.908	127.67	0.034	139.33	1.292
81.08	0.112	92.75	0.930	104.42	0.110	116.08	1.891	127.75	0.037	139.42	1.284
81.17	0.121	92.83	0.919	104.50	0.122	116.17	1.872	127.83	0.040	139.50	1.276
81.25	0.131	92.92	0.909	104.58	0.134	116.25	1.853	127.92	0.043	139.58	1.266
81.33	0.141	93.00	0.897	104.67	0.148	116.33	1.833	128.00	0.047	139.67	1.257
81.42	0.151	93.08	0.883	104.75	0.162	116.42	1.813	128.08	0.051	139.75	1.247
81.50	0.162	93.17	0.868	104.83	0.177	116.50	1.792	128.17	0.056	139.83	1.236
81.58	0.173	93.25	0.852	104.92	0.193	116.58	1.770	128.25	0.061	139.92	1.224

TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
140.00	1.213	151.67	0.023	163.33	0.894	175.00	0.012	186.67	0.658	198.33	0.010
140.08	1.201	151.75	0.025	163.42	0.891	175.08	0.012	186.75	0.656	198.42	0.010
140.17	1.188	151.83	0.027	163.50	0.887	175.17	0.013	186.83	0.653	198.50	0.009
140.25	1.175	151.92	0.029	163.58	0.883	175.25	0.013	186.92	0.651	198.58	0.009
140.33	1.162	152.00	0.031	163.67	0.879	175.33	0.013	187.00	0.649	198.67	0.009
140.42	1.147	152.08	0.034	163.75	0.873	175.42	0.014	187.08	0.648	198.75	0.009
140.50	1.130	152.17	0.037	163.83	0.868	175.50	0.015	187.17	0.644	198.83	0.009
140.58	1.112	152.25	0.041	163.92	0.861	175.58	0.015	187.25	0.639	198.92	0.009
140.67	1.095	152.33	0.044	164.00	0.854	175.67	0.016	187.33	0.634	199.00	0.009
140.75	1.084	152.42	0.049	164.08	0.845	175.75	0.018	187.42	0.632	199.08	0.009
140.83	1.076	152.50	0.053	164.17	0.836	175.83	0.019	187.50	0.630	199.17	0.010
140.92	1.067	152.58	0.058	164.25	0.826	175.92	0.020	187.58	0.623	199.25	0.010
141.00	1.058	152.67	0.063	164.33	0.816	176.00	0.022	187.67	0.619	199.33	0.010
141.08	1.049	152.75	0.069	164.42	0.806	176.08	0.024	187.75	0.614	199.42	0.011
141.17	1.038	152.83	0.075	164.50	0.795	176.17	0.026	187.83	0.609	199.50	0.011
141.25	1.027	152.92	0.081	164.58	0.784	176.25	0.028	187.92	0.603	199.58	0.012
141.33	1.015	153.00	0.088	164.67	0.773	176.33	0.031	188.00	0.598	199.67	0.012
141.42	1.003	153.08	0.095	164.75	0.762	176.42	0.034	188.08	0.592	199.75	0.013
141.50	0.989	153.17	0.103	164.83	0.752	176.50	0.037	188.17	0.586	199.83	0.014
141.58	0.975	153.25	0.110	164.92	0.742	176.58	0.040	188.25	0.579	199.92	0.015
141.67	0.961	153.33	0.119	165.00	0.735	176.67	0.044	188.33	0.573	200.00	0.016
141.75	0.946	153.42	0.127	165.08	0.727	176.75	0.048	188.42	0.566	200.08	0.018
141.83	0.930	153.50	0.136	165.17	0.717	176.83	0.052	188.50	0.557	200.17	0.019
141.92	0.912	153.58	0.145	165.25	0.706	176.92	0.056	188.58	0.549	200.25	0.021
142.00	0.892	153.67	0.155	165.33	0.694	177.00	0.061	188.67	0.542	200.33	0.023
142.08	0.872	153.75	0.165	165.42	0.688	177.08	0.066	188.75	0.534	200.42	0.025
142.17	0.852	153.83	0.175	165.50	0.677	177.17	0.071	188.83	0.524	200.50	0.027
142.25	0.832	153.92	0.185	165.58	0.664	177.25	0.076	188.92	0.514	200.58	0.030
142.33	0.812	154.00	0.196	165.67	0.654	177.33	0.082	189.00	0.502	200.67	0.032
142.42	0.792	154.08	0.207	165.75	0.643	177.42	0.088	189.08	0.490	200.75	0.035
142.50	0.772	154.17	0.218	165.83	0.632	177.50	0.094	189.17	0.478	200.83	0.038
142.58	0.752	154.25	0.230	165.92	0.620	177.58	0.100	189.25	0.466	200.92	0.041
142.67	0.734	154.33	0.241	166.00	0.608	177.67	0.107	189.33	0.454	201.00	0.045
142.75	0.721	154.42	0.253	166.08	0.591	177.75	0.114	189.42	0.443	201.08	0.048
142.83	0.705	154.50	0.266	166.17	0.576	177.83	0.121	189.50	0.431	201.17	0.052
142.92	0.689	154.58	0.278	166.25	0.560	177.92	0.128	189.58	0.419	201.25	0.056
143.00	0.675	154.67	0.291	166.33	0.544	178.00	0.136	189.67	0.408	201.33	0.060
143.08	0.660	154.75	0.303	166.42	0.529	178.08	0.144	189.75	0.397	201.42	0.065
143.17	0.641	154.83	0.316	166.50	0.514	178.17	0.152	189.83	0.385	201.50	0.069
143.25	0.623	154.92	0.328	166.58	0.498	178.25	0.160	189.92	0.374	201.58	0.074
143.33	0.605	155.00	0.335	166.67	0.483	178.33	0.168	190.00	0.363	201.67	0.079
143.42	0.587	155.08	0.340	166.75	0.468	178.42	0.176	190.08	0.348	201.75	0.084
143.50	0.570	155.17	0.346	166.83	0.453	178.50	0.185	190.17	0.333	201.83	0.089
143.58	0.552	155.25	0.353	166.92	0.438	178.58	0.194	190.25	0.315	201.92	0.095
143.67	0.535	155.33	0.361	167.00	0.424	178.67	0.202	190.33	0.300	202.00	0.100
143.75	0.517	155.42	0.369	167.08	0.409	178.75	0.211	190.42	0.286	202.08	0.106
143.83	0.500	155.50	0.379	167.17	0.395	178.83	0.221	190.50	0.274	202.17	0.112
143.92	0.483	155.58	0.388	167.25	0.381	178.92	0.230	190.58	0.263	202.25	0.118
144.00	0.467	155.67	0.398	167.33	0.367	179.00	0.239	190.67	0.252	202.33	0.124
144.08	0.450	155.75	0.406	167.42	0.354	179.08	0.249	190.75	0.243	202.42	0.130
144.17	0.434	155.83	0.414	167.50	0.338	179.17	0.258	190.83	0.234	202.50	0.137
144.25	0.417	155.92	0.423	167.58	0.317	179.25	0.268	190.92	0.226	202.58	0.144
144.33	0.403	156.00	0.430	167.67	0.296	179.33	0.277	191.00	0.218	202.67	0.150
144.42	0.386	156.08	0.439	167.75	0.277	179.42	0.287	191.08	0.211	202.75	0.157
144.50	0.371	156.17	0.448	167.83	0.260	179.50	0.297	191.17	0.204	202.83	0.164
144.58	0.355	156.25	0.457	167.92	0.246	179.58	0.307	191.25	0.197	202.92	0.171
144.67	0.339	156.33	0.466	168.00	0.233	179.67	0.317	191.33	0.191	203.00	0.178
144.75	0.319	156.42	0.475	168.08	0.221	179.75	0.326	191.42	0.185	203.08	0.185
144.83	0.295	156.50	0.484	168.17	0.211	179.83	0.336	191.50	0.179	203.17	0.192
144.92	0.273	156.58	0.494	168.25	0.202	179.92	0.344	191.58	0.173	203.25	0.199
145.00	0.254	156.67	0.503	168.33	0.193	180.00	0.349	191.67	0.168	203.33	0.206
145.08	0.238	156.75	0.513	168.42	0.185	180.08	0.352	191.75	0.163	203.42	0.214
145.17	0.223	156.83	0.522	168.50	0.177	180.17	0.357	191.83	0.157	203.50	0.221
145.25	0.211	156.92	0.532	168.58	0.170	180.25	0.362	191.92	0.153	203.58	0.228
145.33	0.199	157.00	0.541	168.67	0.164	180.33	0.369	192.00	0.148	203.67	0.236
145.42	0.189	157.08	0.551	168.75	0.158	180.42	0.375	192.08	0.143	203.75	0.243
145.50	0.180	157.17	0.560	168.83	0.152	180.50	0.382	192.17	0.139	203.83	0.251
145.58	0.171	157.25	0.569	168.92	0.147	180.58	0.390	192.25	0.135	203.92	0.258
145.67	0.163	157.33	0.576	169.00	0.141	180.67	0.396	192.33	0.130	204.00	0.266
145.75	0.156	157.42	0.584	169.08	0.136	180.75	0.402	192.42	0.126	204.08	0.273
145.83	0.149	157.50	0.592	169.17	0.131	180.83	0.408	192.50	0.122	204.17	0.281
145.92	0.143	157.58	0.600	169.25	0.127	180.92	0.415	192.58	0.118	204.25	0.288
146.00	0.137	157.67	0.608	169.33	0.122	181.00	0.419	192.67	0.114	204.33	0.295
146.08	0.132	157.75	0.616	169.42	0.118	181.08	0.426	192.75	0.111	204.42	0.303
146.17	0.127	157.83	0.625	169.50	0.114	181.17	0.433	192.83	0.107	204.50	0.310
146.25	0.122	157.92	0.635	169.58	0.110	181.25	0.438	192.92	0.104	204.58	0.317
146.33	0.117	158.00	0.645	169.67	0.106	181.33	0.445	193.00	0.100	204.67	0.325
146.42	0.113	158.08	0.655	169.75	0.103	181.42	0.452	193.08	0.097	204.75	0.332
146.50	0.108	158.17	0.665	169.83	0.099	181.50	0.457	193.17	0.094	204.83	0.339
146.58	0.104	158.25	0.675	169.92	0.096	181.58	0.464	193.25	0.091	204.92	0.346
146.67	0.100	158.33	0.684	170.00	0.093	181.67	0.471	193.33	0.088	205.00	0.353
146.75	0.097	158.42	0.694	170.08	0.089	181.75	0.476	193.42	0.085	205.08	0.358
146.83	0.093	158.50	0.702	170.17	0.086	181.83	0.484	193.50	0.082	205.17	0.361
146.92	0.090	158.58	0.710	170.25	0.083	181.92	0.491	193.58	0.080	205.25	0.363
147.00	0.086	158.67	0.719	170.33	0.080	182.00	0.495	193.67	0.077	205.33	0.367
147.08	0.083	158.75	0.727	170.42	0.077	182.08	0.503	193.75	0.074	205.42	0.371
147.17	0.080	158.83	0.735	170.50	0.075	182.17	0.510	193.83	0.072	205.50	0.375
147.25	0.077	158.92	0.743	170.58	0.072	182.25	0.514	193.92	0.069	205.58	0.380
147.33	0.074	159.00	0.751	170.67	0.070	182.33	0.521	194.00	0.067	205.67	0.384
147.42	0.072	159.08	0.758	170.75	0.067	182.42	0.527	194.08	0.065	205.75	0.389
147.50	0.069	159.17	0.766	170.83	0.065	182.50	0.532	194.17	0.063	205.83	0.393
147.58	0.066	159.25	0.773	170.92	0.063	182.58	0.538	194.25	0.061	205.92	0.397
147.67	0.064	159.33	0.781	171.00	0.060	182.67	0.545	194.33	0.059	206.00	0.401
147.75	0.062	159.42	0.788	171.08	0.058	182.75	0.550	194.42	0.057	206.08	0.404
147.83	0.059	159.50	0.796	171.17	0.056	182.83	0.555	194.50	0.055	206.17	0.408
147.92	0.057	159.58	0.802	171.25	0.054	182.92	0.561	194.58	0.053	206.25	0.413
148.00	0.055	159.67	0.807	171.33	0.052	183.00	0.567	194.67	0.051	206.33	0.416
148.08	0.053	159.75	0.815	171.42	0.050	183.08	0.572	194.75	0.049	206.42	0.420
148.17	0.051	159.83	0.822	171.50	0.049	183.17	0.577	194.83	0.048	206.50	0.425
148.25	0.049	159.92	0.827	171.58	0.047	183.25	0.582	194.92	0.046	206.58	0.429
148.33	0.047	160.00	0.833	171.67	0.045	183.33	0.587	195.00	0.044	206.67	0.433
148.42	0.045	160.08	0.839	171.75	0.043	183.42	0.592	195.08	0.043	206.75	0.437
148.50	0.044	160.17	0.845	171.83	0.042	183.50	0.597	195.17	0.041	206.83	0.440
148.58	0.042	160.25	0.851	171.92	0.040	183.58	0.601	195.25	0.040	206.92	0.444
148.67	0.040	160.33	0.858	172.00	0.039	183.67	0.606	195.33	0.038	207.00	0.448
148.75	0.039	160.42	0.865	172.08	0.038	183.75	0.610	195.42	0.037	207.08	0.452
148.83	0.037	160.50	0.871	172.17	0.036	183.83	0.614	195.50	0.036	207.17	0.456
148.92	0.036	160.58	0.878	172.25	0.035	183.92	0.618	195.58	0.035	207.25	0.459
149.00	0.035	160.67	0.884	172.33	0.034	184.00	0.622	195.67	0.033	207.33	0.463
149.08	0.033	160.75	0.890	172.42	0.032	184.08	0.626	195.75	0.032	207.42	0.466
149.17	0.032	160.83	0.896	172.50	0.031	184.17	0.630	195.83	0.031	207.50	0.470
149.25	0.031	160.92	0.901	172.58	0.030	184.25	0.633	195.92	0.030	207.58	0.473
149.33	0.029	161.00	0.905	172.67	0.029	184.33	0.637	196.00	0.029	207.67	0.476
149.42	0.028	161.08	0.909	172.75	0.028	184.42	0.640	196.08	0.028	207.75	0.479
149.50	0.027	161.17	0.913	172.83	0.027	184.50	0.643	196.17	0.027	207.83	0.482
149.58	0.026	161.25	0.917	172.92	0.026	184.58	0.646	196.25	0.026	207.92	0.485
149.67	0.025	161.33	0.920	173.00	0.025	184.67	0.648	196.33	0.025	208.00	0.488
149.75	0.024	161.42	0.923	173.08	0.024	184.75	0.651	196.42	0.024	208.08	0.491
149.83	0.023	161.50	0.925	173.17	0.023	184.83	0.653	196.50	0.023	208.17	0.493
149.92	0.022	161.58	0.927	173.25	0.022	184.92	0.655	196.58	0.022	208.25	0.495
150.00	0.021	161.67	0.928	173.33	0.021	185.00	0.657	196.67	0.021	208.33	0.498
150.08	0.020	161.75	0.930	173.42	0.020	185.08	0.661	196.75	0.021	208.42	0.500
150.17	0.020	161.83	0.930	173.50	0.020	185.17	0.661	196.83	0.020	208.50	0.502
150.25	0.019	161.92	0.931	173.58	0.019	185.25	0.661	196.92	0.019	208.58	0.504
150.33	0.018	162.00	0.931	173.67	0.018	185.33	0.664	197.00	0.018	208.67	0.507
150.42	0.018	162.08	0.931	173.75	0.017	185.42	0.667	197.08	0.018	208.75	0.507
150.50	0.017	162.17	0.930	173.83	0.017	185.50	0.666	197.17	0.017	208.83	0.508
150.58	0.017	162.25	0.929	173.92	0.016	185.58	0.666	197.25	0.016	208.92	0.510
150.67	0.017	162.33	0.928	174.00	0.015	185.67	0.667	197.33	0.016	209.00	0.512
150.75	0.016	162.42	0.926	174.08	0.015	185.75	0.669	197.42	0.015	209.08	0.512
150.83	0.016	162.50	0.924	174.17	0.014	185.83	0.668	197.50	0.015	209.17	0.512
150.92	0.016	162.58	0.921	174.25	0.014	185.92	0.667	197.58	0.014	209.25	0.514
151.00	0.017	162.67	0.918	174.33	0.013	186.00	0.668	197.67	0.014	209.33	0.515
151.08	0.017	162.75	0.915	174.42	0.013	186.08	0.668	197.75	0.013	209.42	0.516
151.17	0.017	162.83	0.911	174.50	0.013	186.17	0.668	197.83	0.012	209.50	0.515
151.25	0.018	162.92	0.906	174.58	0.012	186.25	0.668	197.92	0.012	209.58	0.514
151.33	0.018	163.00	0.902	174.67	0.012	186.33	0.665	198.00	0.011	209.67	0.515
151.42	0.019	163.08	0.901	174.75	0.012	186.42	0.662	198.08	0.011	209.75	0.515
151.50	0.020	163.17	0.899	174.83	0.012	186.50	0.661	198.17	0.010	209.83	0.515
151.58	0.021	163.25	0.897	174.92	0.012	186.58	0.660	198.25	0.010	209.92	0.514

TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
210.00	0.514	221.67	0.010	233.33	0.609	245.00	0.017	256.67	0.000
210.08	0.513	221.75	0.010	233.42	0.608	245.08	0.016	256.75	0.000
210.17	0.512	221.83	0.010	233.50	0.610	245.17	0.016	256.83	0.000
210.25	0.510	221.92	0.009	233.58	0.612	245.25	0.015	256.92	0.000
210.33	0.509	222.00	0.009	233.67	0.611	245.33	0.015	257.00	0.000
210.42	0.507	222.08	0.009	233.75	0.611	245.42	0.014	257.08	0.000
210.50	0.505	222.17	0.008	233.83	0.611	245.50	0.013	257.17	0.000
210.58	0.502	222.25	0.008	233.92	0.612	245.58	0.013	257.25	0.000
210.67	0.501	222.33	0.008	234.00	0.612	245.67	0.012	257.33	0.000
210.75	0.500	222.42	0.008	234.08	0.612	245.75	0.012	257.42	0.000
210.83	0.497	222.50	0.008	234.17	0.609	245.83	0.011	257.50	0.000
210.92	0.493	222.58	0.008	234.25	0.607	245.92	0.011	257.58	0.000
211.00	0.491	222.67	0.008	234.33	0.606	246.00	0.010	257.67	0.000
211.08	0.489	222.75	0.008	234.42	0.605	246.08	0.010	257.75	0.000
211.17	0.484	222.83	0.008	234.50	0.603	246.17	0.010	257.83	0.000
211.25	0.481	222.92	0.008	234.58	0.602	246.25	0.009	257.92	0.000
211.33	0.478	223.00	0.008	234.67	0.600	246.33	0.009	258.00	0.000
211.42	0.472	223.08	0.008	234.75	0.597	246.42	0.009	258.08	0.000
211.50	0.467	223.17	0.009	234.83	0.596	246.50	0.008	258.17	0.000
211.58	0.465	223.25	0.009	234.92	0.595	246.58	0.008	258.25	0.000
211.67	0.459	223.33	0.010	235.00	0.591	246.67	0.008	258.33	0.000
211.75	0.450	223.42	0.010	235.08	0.587	246.75	0.007	258.42	0.000
211.83	0.443	223.50	0.011	235.17	0.583	246.83	0.007	258.50	0.000
211.92	0.435	223.58	0.012	235.25	0.581	246.92	0.007	258.58	0.000
212.00	0.427	223.67	0.012	235.33	0.579	247.00	0.007	258.67	0.000
212.08	0.421	223.75	0.014	235.42	0.573	247.08	0.006	258.75	0.000
212.17	0.415	223.83	0.015	235.50	0.569	247.17	0.006	258.83	0.000
212.25	0.405	223.92	0.016	235.58	0.565	247.25	0.006	258.92	0.000
212.33	0.397	224.00	0.018	235.67	0.560	247.33	0.006	259.00	0.000
212.42	0.389	224.08	0.020	235.75	0.555	247.42	0.005	259.08	0.000
212.50	0.381	224.17	0.022	235.83	0.550	247.50	0.005	259.17	0.000
212.58	0.373	224.25	0.024	235.92	0.545	247.58	0.005	259.25	0.000
212.67	0.363	224.33	0.026	236.00	0.539	247.67	0.005	259.33	0.000
212.75	0.352	224.42	0.029	236.08	0.533	247.75	0.005	259.42	0.000
212.83	0.339	224.50	0.032	236.17	0.525	247.83	0.005	259.50	0.000
212.92	0.327	224.58	0.035	236.25	0.521	247.92	0.004	259.58	0.000
213.00	0.316	224.67	0.038	236.33	0.514	248.00	0.004	259.67	0.000
213.08	0.306	224.75	0.042	236.42	0.505	248.08	0.004	259.75	0.000
213.17	0.297	224.83	0.045	236.50	0.496	248.17	0.004	259.83	0.000
213.25	0.288	224.92	0.049	236.58	0.487	248.25	0.004	259.92	0.000
213.33	0.280	225.00	0.054	236.67	0.476	248.33	0.004	260.00	0.000
213.42	0.272	225.08	0.058	236.75	0.465	248.42	0.004	260.08	0.000
213.50	0.265	225.17	0.063	236.83	0.455	248.50	0.003	260.17	0.000
213.58	0.258	225.25	0.068	236.92	0.444	248.58	0.003	260.25	0.000
213.67	0.251	225.33	0.073	237.00	0.434	248.67	0.003	260.33	0.000
213.75	0.244	225.42	0.078	237.08	0.423	248.75	0.003	260.42	0.000
213.83	0.238	225.50	0.084	237.17	0.413	248.83	0.003	260.50	0.000
213.92	0.232	225.58	0.090	237.25	0.402	248.92	0.003	260.58	0.000
214.00	0.225	225.67	0.096	237.33	0.392	249.00	0.003	260.67	0.000
214.08	0.219	225.75	0.102	237.42	0.382	249.08	0.003	260.75	0.000
214.17	0.213	225.83	0.109	237.50	0.372	249.17	0.003	260.83	0.000
214.25	0.208	225.92	0.115	237.58	0.361	249.25	0.003	260.92	0.000
214.33	0.202	226.00	0.122	237.67	0.348	249.33	0.003	261.00	0.000
214.42	0.197	226.08	0.129	237.75	0.331	249.42	0.002	261.08	0.000
214.50	0.191	226.17	0.136	237.83	0.315	249.50	0.002	261.17	0.000
214.58	0.186	226.25	0.144	237.92	0.302	249.58	0.002	261.25	0.000
214.67	0.181	226.33	0.151	238.00	0.290	249.67	0.002	261.33	0.000
214.75	0.176	226.42	0.159	238.08	0.279	249.75	0.002	261.42	0.000
214.83	0.171	226.50	0.166	238.17	0.269	249.83	0.002	261.50	0.000
214.92	0.166	226.58	0.174	238.25	0.259	249.92	0.002	261.58	0.000
215.00	0.161	226.67	0.182	238.33	0.250	250.00	0.002	261.67	0.000
215.08	0.157	226.75	0.191	238.42	0.242	250.08	0.002	261.75	0.000
215.17	0.152	226.83	0.199	238.50	0.234	250.17	0.002	261.83	0.000
215.25	0.148	226.92	0.207	238.58	0.227	250.25	0.002	261.92	0.000
215.33	0.144	227.00	0.216	238.67	0.220	250.33	0.002	262.00	0.000
215.42	0.140	227.08	0.224	238.75	0.213	250.42	0.002	262.08	0.000
215.50	0.135	227.17	0.233	238.83	0.206	250.50	0.002	262.17	0.000
215.58	0.132	227.25	0.242	238.92	0.200	250.58	0.002	262.25	0.000
215.67	0.128	227.33	0.250	239.00	0.194	250.67	0.002	262.33	0.000
215.75	0.124	227.42	0.259	239.08	0.189	250.75	0.001	262.42	0.000
215.83	0.120	227.50	0.268	239.17	0.183	250.83	0.001	262.50	0.000
215.92	0.116	227.58	0.277	239.25	0.178	250.92	0.001	262.58	0.000
216.00	0.113	227.67	0.286	239.33	0.172	251.00	0.001	262.67	0.000
216.08	0.109	227.75	0.295	239.42	0.167	251.08	0.001	262.75	0.000
216.17	0.106	227.83	0.304	239.50	0.162	251.17	0.001	262.83	0.002
216.25	0.103	227.92	0.313	239.58	0.157	251.25	0.001	262.92	0.000
216.33	0.100	228.00	0.322	239.67	0.152	251.33	0.001	263.00	0.000
216.42	0.097	228.08	0.331	239.75	0.148	251.42	0.001	263.08	0.000
216.50	0.094	228.17	0.340	239.83	0.143	251.50	0.001	263.17	0.000
216.58	0.091	228.25	0.348	239.92	0.139	251.58	0.001	263.25	0.000
216.67	0.088	228.33	0.352	240.00	0.135	251.67	0.001	263.33	0.000
216.75	0.085	228.42	0.355	240.08	0.130	251.75	0.001	263.42	0.000
216.83	0.082	228.50	0.359	240.17	0.126	251.83	0.001	263.50	0.000
216.92	0.080	228.58	0.364	240.25	0.122	251.92	0.001	263.58	0.000
217.00	0.077	228.67	0.369	240.33	0.119	252.00	0.001	263.67	0.000
217.08	0.075	228.75	0.375	240.42	0.115	252.08	0.001	263.75	0.000
217.17	0.072	228.83	0.382	240.50	0.111	252.17	0.001	263.83	0.000
217.25	0.070	228.92	0.388	240.58	0.108	252.25	0.001	263.92	0.000
217.33	0.068	229.00	0.394	240.67	0.104	252.33	0.001	264.00	0.000
217.42	0.066	229.08	0.399	240.75	0.101	252.42	0.001	264.08	0.000
217.50	0.063	229.17	0.405	240.83	0.098	252.50	0.001	264.17	0.000
217.58	0.061	229.25	0.410	240.92	0.095	252.58	0.001	264.25	0.000
217.67	0.059	229.33	0.414	241.00	0.092	252.67	0.001	264.33	0.000
217.75	0.057	229.42	0.420	241.08	0.089	252.75	0.001	264.42	0.000
217.83	0.056	229.50	0.426	241.17	0.086	252.83	0.001	264.50	0.000
217.92	0.054	229.58	0.431	241.25	0.083	252.92	0.001	264.58	0.000
218.00	0.052	229.67	0.437	241.33	0.080	253.00	0.001	264.67	0.000
218.08	0.050	229.75	0.443	241.42	0.078	253.08	0.001	264.75	0.000
218.17	0.049	229.83	0.447	241.50	0.075	253.17	0.001	264.83	0.000
218.25	0.047	229.92	0.454	241.58	0.073	253.25	0.001	264.92	0.000
218.33	0.045	230.00	0.460	241.67	0.070	253.33	0.001	265.00	0.000
218.42	0.044	230.08	0.464	241.75	0.068	253.42	0.001	265.08	0.000
218.50	0.042	230.17	0.471	241.83	0.066	253.50	0.001	265.17	0.000
218.58	0.041	230.25	0.476	241.92	0.064	253.58	0.001	265.25	0.000
218.67	0.039	230.33	0.481	242.00	0.061	253.67	0.001	265.33	0.000
218.75	0.038	230.42	0.486	242.08	0.059	253.75	0.001	265.42	0.000
218.83	0.037	230.50	0.492	242.17	0.057	253.83	0.001	265.50	0.000
218.92	0.036	230.58	0.497	242.25	0.056	253.92	0.001	265.58	0.000
219.00	0.034	230.67	0.502	242.33	0.054	254.00	0.001	265.67	0.000
219.08	0.033	230.75	0.508	242.42	0.052	254.08	0.001	265.75	0.000
219.17	0.032	230.83	0.513	242.50	0.050	254.17	0.001	265.83	0.000
219.25	0.031	230.92	0.518	242.58	0.048	254.25	0.001	265.92	0.000
219.33	0.030	231.00	0.522	242.67	0.047	254.33	0.001	266.00	0.000
219.42	0.029	231.08	0.527	242.75	0.045	254.42	0.001	266.08	0.000
219.50	0.028	231.17	0.532	242.83	0.043	254.50	0.000	266.17	0.000
219.58	0.027	231.25	0.537	242.92	0.042	254.58	0.000	266.25	0.000
219.67	0.026	231.33	0.541	243.00	0.040	254.67	0.000	266.33	0.000
219.75	0.025	231.42	0.546	243.08	0.039	254.75	0.000	266.42	0.000
219.83	0.024	231.50	0.550	243.17	0.038	254.83	0.000	266.50	0.000
219.92	0.023	231.58	0.554	243.25	0.036	254.92	0.000	266.58	0.000
220.00	0.022	231.67	0.558	243.33	0.035	255.00	0.000	266.67	0.000
220.08	0.022	231.75	0.562	243.42	0.034	255.08	0.000	266.75	0.000
220.17	0.021	231.83	0.566	243.50	0.033	255.17	0.000	266.83	0.000
220.25	0.020	231.92	0.569	243.58	0.032	255.25	0.000	266.92	0.000
220.33	0.019	232.00	0.573	243.67	0.031	255.33	0.000	267.00	0.000
220.42	0.019	232.08	0.576	243.75	0.029	255.42	0.000	267.08	0.000
220.50	0.018	232.17	0.579	243.83	0.028	255.50	0.000	267.17	0.000
220.58	0.017	232.25	0.582	243.92	0.027	255.58	0.000	267.25	0.000
220.67	0.017	232.33	0.585	244.00	0.026	255.67	0.000	267.33	0.000
220.75	0.016	232.42	0.588	244.08	0.025	255.75	0.000	267.42	0.000
220.83	0.016	232.50	0.591	244.17	0.024	255.83	0.000	267.50	0.000
220.92	0.015	232.58	0.593	244.25	0.024	255.92	0.000	267.58	0.000
221.00	0.015	232.67	0.596	244.33	0.023	256.00	0.000	267.67	0.000
221.08	0.014	232.75	0.598	244.42	0.022	256.08	0.000	267.75	0.000
221.17	0.013	232.83	0.600	244.50	0.021	256.17	0.000	267.83	0.000
221.25	0.013	232.92	0.603	244.58	0.020	256.25	0.000	267.92	0.000
221.33	0.012	233.00	0.603	244.67	0.020	256.33	0.000	268.00	0.000
221.42	0.012	233.08	0.604	244.75	0.019	256.42	0.000	268.08	0.000
221.50	0.011	233.17	0.607	244.83	0.018	256.50	0.000	268.17	0.000
221.58	0.011	233.25	0.609	244.92	0.018	256.58	0.000	268.25	0.000

JOCKVG (VG SPRING)



Hydrograph Statistics:

Legend	Filename & Comment	Time Step (min)	Drainage Area (ha)	Peak Flow (cms)	Time to Peak (hrs)	Runoff Volume (mm)	Runoff Volume (cu.m)	Duration of flow (hrs)	Average flow (cms)
—△—	JOCKVG.100 : Flow from Van Gaal at Jock River	5.00	1147.00	15.777	113.500	244.26	2.802E+06	275.667	2.823

Hydrograph Table:

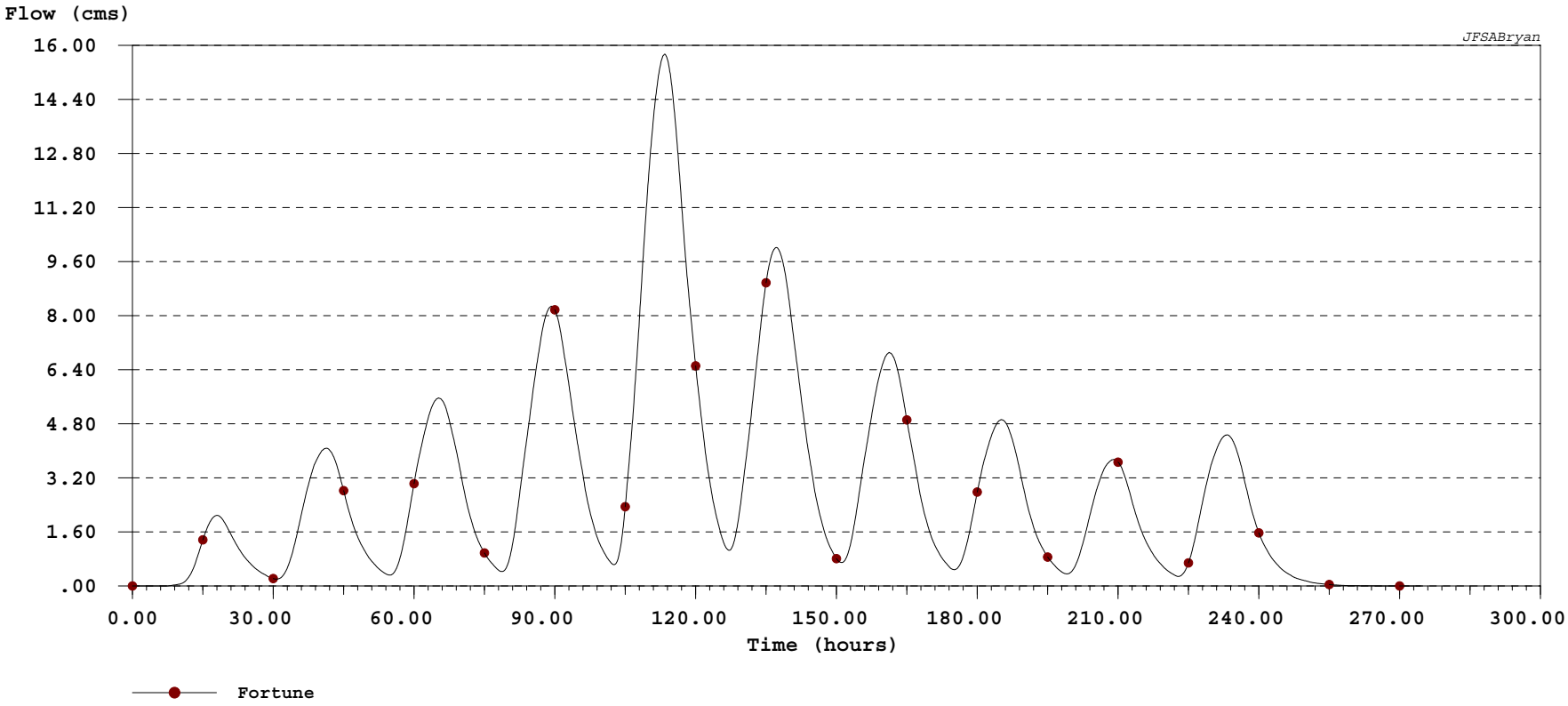
Hydrograph Filename : Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSPRI~1\JOCKVG.100
Comment in file : Flow from Van Gaal at Jock River

TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
0.00	0.000	11.67	0.159	23.33	1.052	35.00	1.317	46.67	2.125	58.33	1.467	70.00	3.510	81.67	1.582
0.08	0.000	11.75	0.168	23.42	1.032	35.08	1.366	46.75	2.087	58.42	1.531	70.08	3.451	81.75	1.660
0.17	0.000	11.83	0.178	23.50	1.014	35.17	1.417	46.83	2.050	58.50	1.597	70.17	3.391	81.83	1.738
0.25	0.000	11.92	0.189	23.58	0.996	35.25	1.469	46.92	2.013	58.58	1.662	70.25	3.332	81.92	1.820
0.33	0.000	12.00	0.201	23.67	0.977	35.33	1.522	47.00	1.977	58.67	1.726	70.33	3.273	82.00	1.905
0.42	0.000	12.08	0.213	23.75	0.959	35.42	1.577	47.08	1.940	58.75	1.792	70.42	3.215	82.08	1.990
0.50	0.000	12.17	0.227	23.83	0.941	35.50	1.632	47.17	1.901	58.83	1.860	70.50	3.157	82.17	2.074
0.58	0.000	12.25	0.241	23.92	0.924	35.58	1.686	47.25	1.864	58.92	1.927	70.58	3.099	82.25	2.162
0.67	0.000	12.33	0.257	24.00	0.908	35.67	1.738	47.33	1.829	59.00	1.993	70.67	3.039	82.33	2.251
0.75	0.000	12.42	0.274	24.08	0.892	35.75	1.791	47.42	1.793	59.08	2.060	70.75	2.980	82.42	2.344
0.83	0.000	12.50	0.293	24.17	0.877	35.83	1.845	47.50	1.758	59.17	2.128	70.83	2.921	82.50	2.440
0.92	0.000	12.58	0.313	24.25	0.863	35.92	1.898	47.58	1.723	59.25	2.197	70.92	2.861	82.58	2.539
1.00	0.000	12.67	0.336	24.33	0.848	36.00	1.950	47.67	1.690	59.33	2.267	71.00	2.802	82.67	2.637
1.08	0.000	12.75	0.360	24.42	0.835	36.08	2.001	47.75	1.658	59.42	2.338	71.08	2.746	82.75	2.732
1.17	0.000	12.83	0.383	24.50	0.821	36.17	2.053	47.83	1.627	59.50	2.410	71.17	2.691	82.83	2.824
1.25	0.000	12.92	0.406	24.58	0.808	36.25	2.105	47.92	1.597	59.58	2.484	71.25	2.637	82.92	2.916
1.33	0.000	13.00	0.430	24.67	0.795	36.33	2.158	48.00	1.568	59.67	2.557	71.33	2.585	83.00	3.009
1.42	0.000	13.08	0.456	24.75	0.782	36.42	2.211	48.08	1.540	59.75	2.630	71.42	2.533	83.08	3.103
1.50	0.000	13.17	0.484	24.83	0.770	36.50	2.264	48.17	1.513	59.83	2.702	71.50	2.483	83.17	3.195
1.58	0.000	13.25	0.512	24.92	0.757	36.58	2.317	48.25	1.486	59.92	2.773	71.58	2.435	83.25	3.290
1.67	0.000	13.33	0.538	25.00	0.745	36.67	2.370	48.33	1.459	60.00	2.840	71.67	2.388	83.33	3.385
1.75	0.000	13.42	0.564	25.08	0.733	36.75	2.424	48.42	1.433	60.08	2.906	71.75	2.343	83.42	3.478
1.83	0.000	13.50	0.592	25.17	0.721	36.83	2.478	48.50	1.408	60.17	2.973	71.83	2.298	83.50	3.570
1.92	0.000	13.58	0.622	25.25	0.709	36.92	2.531	48.58	1.383	60.25	3.039	71.92	2.255	83.58	3.662
2.00	0.000	13.67	0.653	25.33	0.698	37.00	2.584	48.67	1.359	60.33	3.103	72.00	2.213	83.67	3.753
2.08	0.000	13.75	0.686	25.42	0.686	37.08	2.636	48.75	1.335	60.42	3.168	72.08	2.172	83.75	3.844
2.17	0.000	13.83	0.720	25.50	0.674	37.17	2.687	48.83	1.312	60.50	3.233	72.17	2.132	83.83	3.935
2.25	0.000	13.92	0.755	25.58	0.663	37.25	2.738	48.92	1.290	60.58	3.299	72.25	2.091	83.92	4.026
2.33	0.000	14.00	0.791	25.67	0.651	37.33	2.788	49.00	1.268	60.67	3.366	72.33	2.052	84.00	4.118
2.42	0.000	14.08	0.828	25.75	0.640	37.42	2.836	49.08	1.246	60.75	3.432	72.42	2.012	84.08	4.208
2.50	0.000	14.17	0.866	25.83	0.629	37.50	2.880	49.17	1.225	60.83	3.496	72.50	1.971	84.17	4.296
2.58	0.000	14.25	0.902	25.92	0.618	37.58	2.924	49.25	1.204	60.92	3.559	72.58	1.929	84.25	4.383
2.67	0.000	14.33	0.937	26.00	0.607	37.67	2.968	49.33	1.183	61.00	3.620	72.67	1.887	84.33	4.470
2.75	0.000	14.42	0.973	26.08	0.597	37.75	3.011	49.42	1.162	61.08	3.679	72.75	1.846	84.42	4.557
2.83	0.000	14.50	1.010	26.17	0.587	37.83	3.052	49.50	1.142	61.17	3.738	72.83	1.807	84.50	4.642
2.92	0.000	14.58	1.048	26.25	0.577	37.92	3.093	49.58	1.122	61.25	3.796	72.92	1.767	84.58	4.728
3.00	0.000	14.67	1.085	26.33	0.567	38.00	3.135	49.67	1.101	61.33	3.853	73.00	1.728	84.67	4.815
3.08	0.000	14.75	1.119	26.42	0.557	38.08	3.176	49.75	1.080	61.42	3.909	73.08	1.691	84.75	4.906
3.17	0.000	14.83	1.155	26.50	0.548	38.17	3.218	49.83	1.058	61.50	3.965	73.17	1.656	84.83	4.998
3.25	0.000	14.92	1.190	26.58	0.539	38.25	3.259	49.92	1.037	61.58	4.020	73.25	1.621	84.92	5.091
3.33	0.000	15.00	1.226	26.67	0.530	38.33	3.300	50.00	1.016	61.67	4.075	73.33	1.589	85.00	5.185
3.42	0.000	15.08	1.262	26.75	0.521	38.42	3.340	50.08	0.996	61.75	4.130	73.42	1.557	85.08	5.279
3.50	0.000	15.17	1.298	26.83	0.512	38.50	3.380	50.17	0.975	61.83	4.185	73.50	1.526	85.17	5.373
3.58	0.000	15.25	1.334	26.92	0.503	38.58	3.419	50.25	0.954	61.92	4.239	73.58	1.497	85.25	5.467
3.67	0.000	15.33	1.370	27.00	0.492	38.67	3.456	50.33	0.934	62.00	4.292	73.67	1.468	85.33	5.559
3.75	0.000	15.42	1.405	27.08	0.482	38.75	3.494	50.42	0.915	62.08	4.343	73.75	1.439	85.42	5.651
3.83	0.000	15.50	1.440	27.17	0.472	38.83	3.529	50.50	0.897	62.17	4.393	73.83	1.411	85.50	5.742
3.92	0.000	15.58	1.475	27.25	0.462	38.92	3.560	50.58	0.879	62.25	4.442	73.92	1.384	85.58	5.832
4.00	0.000	15.67	1.509	27.33	0.453	39.00	3.590	50.67	0.863	62.33	4.491	74.00	1.358	85.67	5.921
4.08	0.000	15.75	1.543	27.42	0.444	39.08	3.620	50.75	0.847	62.42	4.538	74.08	1.333	85.75	6.009
4.17	0.000	15.83	1.577	27.50	0.435	39.17	3.649	50.83	0.831	62.50	4.585	74.17	1.308	85.83	6.095
4.25	0.000	15.92	1.610	27.58	0.425	39.25	3.676	50.92	0.817	62.58	4.631	74.25	1.284	85.92	6.177
4.33	0.000	16.00	1.643	27.67	0.416	39.33	3.702	51.00	0.802	62.67	4.678	74.33	1.261	86.00	6.257
4.42	0.000	16.08	1.674	27.75	0.407	39.42	3.727	51.08	0.788	62.75	4.722	74.42	1.238	86.08	6.336
4.50	0.000	16.17	1.705	27.83	0.399	39.50	3.752	51.17	0.774	62.83	4.769	74.50	1.216	86.17	6.413
4.58	0.000	16.25	1.734	27.92	0.392	39.58	3.776	51.25	0.761	62.92	4.818	74.58	1.194	86.25	6.488
4.67	0.000	16.33	1.762	28.00	0.384	39.67	3.800	51.33	0.748	63.00	4.863	74.67	1.172	86.33	6.563
4.75	0.000	16.42	1.787	28.08	0.378	39.75	3.823	51.42	0.735	63.08	4.908	74.75	1.151	86.42	6.638
4.83	0.000	16.50	1.811	28.17	0.371	39.83	3.846	51.50	0.722	63.17	4.952	74.83	1.130	86.50	6.712
4.92	0.000	16.58	1.835	28.25	0.365	39.92	3.868	51.58	0.710	63.25	4.995	74.92	1.109	86.58	6.785
5.00	0.000	16.67	1.858	28.33	0.358	40.00	3.889	51.67	0.697	63.33	5.037	75.00	1.086	86.67	6.859
5.08	0.000	16.75	1.878	28.42	0.352	40.08	3.909	51.75	0.685	63.42	5.076	75.08	1.063	86.75	6.932
5.17	0.000	16.83	1.898	28.50	0.345	40.17	3.929	51.83	0.672	63.50	5.114	75.17	1.041	86.83	7.004
5.25	0.000	16.92	1.917	28.58	0.339	40.25	3.947	51.92	0.660	63.58	5.150	75.25	1.019	86.92	7.077
5.33	0.000	17.00	1.936	28.67	0.332	40.33	3.964	52.00	0.648	63.67	5.186	75.33	0.998	87.00	7.149
5.42	0.000	17.08	1.953	28.75	0.326	40.42	3.981	52.08	0.636	63.75	5.220	75.42	0.977	87.08	7.222
5.50	0.000	17.17	1.969	28.83	0.320	40.50	3.995	52.17	0.623	63.83	5.252	75.50	0.955	87.17	7.296
5.58	0.000	17.25	1.985	28.92	0.314	40.58	4.007	52.25	0.611	63.92	5.284	75.58	0.934	87.25	7.368
5.67	0.000	17.33	1.999	29.00	0.308	40.67	4.021	52.33	0.600	64.00	5.314	75.67	0.914	87.33	7.437
5.75	0.000	17.42	2.012	29.08	0.302	40.75	4.033	52.42	0.588	64.08	5.342	75.75	0.895	87.42	7.505
5.83	0.000	17.50	2.024	29.17	0.297	40.83	4.043	52.50	0.577	64.17	5.369	75.83	0.877	87.50	7.568
5.92	0.000	17.58	2.035	29.25	0.291	40.92	4.053	52.58	0.566	64.25	5.394	75.92	0.860	87.58	7.629
6.00	0.000	17.67	2.045	29.33	0.286	41.00	4.063	52.67	0.556	64.33	5.418	76.00	0.844	87.67	7.688
6.08	0.000	17.75	2.054	29.42	0.281	41.08	4.069	52.75	0.545	64.42	5.439	76.08	0.828	87.75	7.743
6.17	0.000	17.83	2.061	29.50	0.276	41.17	4.074	52.83	0.535	64.50	5.460	76.17	0.812	87.83	7.796
6.25	0.000	17.92	2.068	29.58	0.272	41.25	4.078	52.92	0.525	64.58	5.478	76.25	0.797	87.92	7.847
6.33	0.000	18.00	2.074	29.67	0.267	41.33	4.083	53.00	0.516	64.67	5.494	76.33	0.783	88.00	7.895
6.42	0.000	18.08	2.078	29.75	0.263	41.42	4.085	53.08	0.506	64.75	5.512	76.42	0.769	88.08	7.941
6.50	0.000	18.17	2.081	29.83	0.258	41.50	4.085	53.17	0.494	64.83	5.526	76.50	0.755	88.17	7.984
6.58	0.000	18.25	2.083	29.92	0.254	41.58	4.084	53.25	0.483	64.92	5.536	76.58	0.742	88.25	8.023
6.67	0.000	18.33	2.083	30.00	0.250	41.67	4.082	53.33	0.473	65.00	5.546	76.67	0.729	88.33	8.060
6.75	0.000	18.42	2.082	30.08	0.246	41.75	4.079	53.42	0.463	65.08	5.555	76.75	0.716	88.42	8.093
6.83	0.000	18.50	2.080	30.17	0.243	41.83	4.074	53.50	0.453	65.17	5.565	76.83	0.703	88.50	8.126
6.92	0.000	18.58	2.076	30.25	0.240	41.92	4.067	53.58	0.443	65.25	5.572	76.92	0.690	88.58	8.154
7.00	0.000	18.67	2.072	30.33	0.238	42.00	4.060	53.67	0.433	65.33	5.575	77.00	0.678	88.67	8.178
7.08	0.000	18.75	2.066	30.42	0.235	42.08	4.051	53.75	0.423	65.42	5.574	77.08	0.665	88.75	8.204
7.17	0.000	18.83	2.060	30.50	0.234	42.17	4.040	53.83	0.414	65.50	5.573	77.17	0.653	88.83	8.226
7.25	0.000	18.92	2.052	30.58	0.233	42.25	4.027	53.92	0.404	65.58	5.571	77.25	0.640	88.92	8.241
7.33	0.000	19.00	2.044	30.67	0.231	42.33	4.014	54.00	0.396	65.67	5.567	77.33	0.627	89.00	8.256
7.42	0.000	19.08	2.033	30.75	0.230	42.42	4.000	54.08	0.388	65.75	5.563	77.42	0.615	89.08	8.270
7.50	0.001	19.17	2.022	30.83	0.229	42.50	3.983	54.17	0.382	65.83	5.556	77.50	0.603	89.17	8.284
7.58	0.003	19.25	2.010	30.92	0.228	42.58	3.966	54.25	0.376	65.92	5.548	77.58	0.591	89.25	8.295
7.67	0.004	19.33	1.998	31.00	0.228	42.67	3.947	54.33	0.371	66.00	5.538	77.67	0.579	89.33	8.298
7.75	0.007	19.42	1.984	31.08	0.228	42.75	3.925	54.42	0.367	66.08	5.526	77.75	0.568	89.42	8.297
7.83	0.009	19.50	1.970	31.17	0.228	42.83	3.903	54.50	0.363	66.17	5.513	77.83	0.557	89.50	8.294
7.92	0.012	19.58	1.954	31.25	0.229	42.92	3.882	54.58	0.360	66.25	5.499	77.92	0.546	89.58	8.290
8.00	0.014	19.67	1.939	31.33	0.231	43.00	3.857	54.67	0.357	66.33	5.481	78.00	0.536	89.67	8.284
8.08	0.016	19.75	1.922	31.42	0.233	43.08	3.832	54.75	0.355	66.42	5.460	78.08	0.526	89.75	8.276
8.17	0.019	19.83	1.905	31.50	0.237	43.17	3.807	54.83	0.353	66.50	5.438	78.17	0.517	89.83	8.266
8.25	0.021	19.92	1.887	31.58	0.241	43.25	3.781	54.92	0.351	66.58	5.414	78.25	0.508	89.92	8.253
8.33	0.023	20.00	1.866	31.67	0.245	43.33	3.752	55.00	0.350	66.67	5.390	78.33	0.499	90.00	8.237
8.42	0.026	20.08	1.846	31.75	0.250	43.42	3.723	55.08	0.350	66.75	5.364	78.42	0.492	90.08	8.218
8.50	0.029	20.17	1.825	31.83	0.255	43.50	3.692	55.17	0.351	66.83	5.334	78.50	0.486	90.17	8.196
8.58	0.031	20.25	1.804	31.92	0.262	43.58	3.661	55.25	0.353	66.92	5.304	78.58	0.481	90.25	8.170
8.67	0.033	20.33	1.782	32.00	0.269	43.67	3.629	55.33	0.355	67.00	5.272	78.67	0.477	90.33	8.143
8.75	0.036	20.42	1.760	32.08	0.277	43.75	3.595	55.42	0.360	67.08	5.237	78.75	0.474	90.42	8.114
8.83	0.038	20.50	1.738	32.17	0.287	43.83	3.558	55.50	0.365	67.17	5.200	78.83	0.472	90.50	8.078
8.92	0.040	20.58	1.716	32.25	0.298	43.92	3.520	55.58	0.373	67.25	5.163	78.92	0.470	90.58	8.041
9.00	0.042	20.67	1.694	32.33	0.311	44.00	3.483	55.67	0.381	67.33	5.123	79.00	0.470	90.67	8.005
9.08	0.044	20.75	1.672	32.42	0.325	44.08	3.444	55.75	0.390	67.42	5.082	79.08	0.471	90.75	7.961
9.17	0.046	20.83	1.651	32.50	0.341	44.17	3.404	55.83	0.402	67.50	5.040	79.17	0.473	90.83	7.915
9.25	0.048	20.92	1.629	32.58	0.359	44.25	3.364	55.92	0.415	67.58	4.997	79.25	0.477	90.92	7.869
9.33	0.050	21.00	1.607	32.67	0.378	44.33	3.324	56.00	0.429	67.67	4.954	79.33	0.481	91.00	7.819
9.42	0.053	21.08	1.586	32.75	0.397	44.42	3.283	56.08	0.443	67.75	4.909	79.42	0.487	91.08	7.766
9.50	0.055	21.17	1.564	32.83	0.415	44.50	3.241	56.17	0.457	67.83	4.863	79.50	0.495	91.17	7.711
9.58	0.058	21.25	1.542	32.92	0.434	44.58	3.200	56.25	0.473	67.92	4.817	79.58	0.505	91.25	7.653
9.67	0.060	21.33	1.521	33.00	0.455	44.67	3.158	56.33	0.491	68.00	4.770	79.67	0.516	91.33	7.593
9.75	0.062	21.42	1.500	33.08	0.478	44.75	3.116	56.42	0.508	68.08	4.722	79.75	0.529	91.42	7.530
9.83	0.064	21.50	1.478	33.17	0.501	44.83	3.073	56.50	0.528	68.17	4.674	79.83	0.544	91.50	7.466
9.92	0.067	21.58	1.458	33.25	0.523	44.92	3.028	56.58	0.549	68.25	4.626	79.92	0.562	91.58	7.400
10.00	0.069	21.67	1.437	33.33	0.547	45.00	2.982	56.67	0.573	68.33	4.578	80.00	0.582	91.67	7.332
10.08	0.071	21.75	1.416	33.42	0.573	45.08	2.938	56.75	0.598	68.42	4.531	80.08	0.604	91.75	7.262
10.17	0.073	21.83	1.396	33.50	0.601	45.17	2.893	56.83	0.626	68.50	4.482	80.17	0.630	91.83	7.189
10.25	0.076	21.92	1.376	33.58	0.630	45.25	2.847	56.92	0.656	68.58	4.432	80.25	0.658	91.92	7.117
10.33	0.079	22.00	1.356	33.67	0.661	45.33	2.802	57.00	0.688	68.67	4.381	80.33	0.689	92.00	7.045
10.42	0.082	22.08	1.336	33.75	0.693	45.42	2.755	57.08	0.722	68.75	4.329	80.42	0.724	92.08	6.974
10.50	0.085	22.17	1.316	33.83	0.726	45.50	2.707	57.17	0.759	68.83	4.276	80.50	0.763	92.17	6.906
10.58	0.088	22.25	1.296	33.92	0.761	45.58	2.659	57.25	0.800	68.92	4.223	80.58	0.806	92.25	6.837
10.67	0.091	22.33	1.277	34.00	0.799	45.67	2.613	57.33	0.844	69.00	4.171	80.67	0.853	92.33	6.767
10.75	0.095	22.42	1.257	34.08	0.838	45.75	2.567	57.42	0.888	69.08	4.118	80.75	0.900	92.42	6.698
10.83	0.098	22.50	1.238	34.17	0.879	45.83	2.523	57.50	0.933	69.17	4.066	80.83	0.948	92.50	6.628
10.92	0.102	22.58	1.219	34.25	0.919	45.92	2.480	57.58	0.980	69.25	4.013	80.92	0.999	92.58	6.557
11.00	0.106	22.67	1.200	34.33	0.960	46.00	2.438	57.67	1.030	69.33	3.960	81.00	1.054	92.67	6.486
11.08	0.111	22.75	1.181	34.42	1.003	46.08	2.397	57.75	1.080	69.42	3.906	81.08	1.110	92.75	6.412
11.17	0.116	22.83	1.163	34.50	1.048	46.17	2.356	57.83	1.130	69.50	3.850	81.17	1.166	92.83	6.334
11.25	0.121	22.92	1.145	34.58	1.092	46.25	2.317	57.92	1.180	69.58	3.795	81.25	1.225	92.92	6.256
11.33	0.127	23.00	1.127	34.67	1.134	46.33	2.277	58.00	1.232	69.67	3.739	81.33	1.289	93.00	6.176
11.42	0.134	23.08	1.109	34.75	1.178	46.42	2.239	58.08	1.287	69.75	3.683	81.42	1.357	93.08	6.095
11.50	0.142	23.17	1.091	34.83	1.223	46.50	2.200	58.17	1.344	69.83	3.626	81.50	1.429	93.17	6.014
11.58	0.150	23.25	1.072	34.92	1.269	46.58	2.162	58.25	1.404	69.92	3.569	81.58	1.504	93.25	5.932

TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
93.33	5.851	105.00	2.004	116.67	12.351	128.33	1.301	140.00	8.583	151.67	0.748	163.33	6.352	175.00	0.536
93.42	5.770	105.08	2.117	116.75	12.198	128.42	1.338	140.08	8.492	151.75	0.755	163.42	6.301	175.08	0.531
93.50	5.689	105.17	2.235	116.83	12.044	128.50	1.380	140.17	8.401	151.83	0.763	163.50	6.248	175.17	0.527
93.58	5.609	105.25	2.360	116.92	11.889	128.58	1.425	140.25	8.307	151.92	0.774	163.58	6.193	175.25	0.524
93.67	5.529	105.33	2.493	117.00	11.732	128.67	1.474	140.33	8.214	152.00	0.786	163.67	6.136	175.33	0.522
93.75	5.450	105.42	2.628	117.08	11.577	128.75	1.526	140.42	8.120	152.08	0.801	163.75	6.078	175.42	0.521
93.83	5.370	105.50	2.762	117.17	11.416	128.83	1.582	140.50	8.026	152.17	0.818	163.83	6.019	175.50	0.522
93.92	5.293	105.58	2.896	117.25	11.249	128.92	1.642	140.58	7.930	152.25	0.837	163.92	5.957	175.58	0.523
94.00	5.216	105.67	3.034	117.33	11.082	129.00	1.703	140.67	7.835	152.33	0.860	164.00	5.897	175.67	0.526
94.08	5.141	105.75	3.173	117.42	10.917	129.08	1.764	140.75	7.741	152.42	0.886	164.08	5.836	175.75	0.529
94.17	5.066	105.83	3.310	117.50	10.753	129.17	1.829	140.83	7.648	152.50	0.914	164.17	5.773	175.83	0.534
94.25	4.992	105.92	3.447	117.58	10.592	129.25	1.899	140.92	7.557	152.58	0.944	164.25	5.710	175.92	0.540
94.33	4.918	106.00	3.586	117.67	10.435	129.33	1.969	141.00	7.467	152.67	0.974	164.33	5.646	176.00	0.547
94.42	4.844	106.08	3.727	117.75	10.282	129.42	2.041	141.08	7.378	152.75	1.005	164.42	5.582	176.08	0.555
94.50	4.771	106.17	3.871	117.83	10.132	129.50	2.117	141.17	7.289	152.83	1.039	164.50	5.517	176.17	0.565
94.58	4.697	106.25	4.019	117.92	9.984	129.58	2.196	141.25	7.198	152.92	1.074	164.58	5.452	176.25	0.577
94.67	4.622	106.33	4.164	118.00	9.839	129.67	2.279	141.33	7.108	153.00	1.109	164.67	5.386	176.33	0.591
94.75	4.545	106.42	4.308	118.08	9.696	129.75	2.367	141.42	7.018	153.08	1.148	164.75	5.320	176.42	0.607
94.83	4.467	106.50	4.455	118.17	9.556	129.83	2.458	141.50	6.929	153.17	1.189	164.83	5.254	176.50	0.624
94.92	4.392	106.58	4.603	118.25	9.420	129.92	2.553	141.58	6.839	153.25	1.234	164.92	5.188	176.58	0.642
95.00	4.319	106.67	4.750	118.33	9.289	130.00	2.651	141.67	6.751	153.33	1.282	165.00	5.123	176.67	0.662
95.08	4.247	106.75	4.902	118.42	9.161	130.08	2.747	141.75	6.665	153.42	1.334	165.08	5.058	176.75	0.684
95.17	4.176	106.83	5.063	118.50	9.034	130.17	2.841	141.83	6.577	153.50	1.389	165.17	4.994	176.83	0.708
95.25	4.106	106.92	5.229	118.58	8.909	130.25	2.935	141.92	6.489	153.58	1.447	165.25	4.928	176.92	0.734
95.33	4.037	107.00	5.399	118.67	8.782	130.33	3.031	142.00	6.396	153.67	1.508	165.33	4.863	177.00	0.761
95.42	3.969	107.08	5.571	118.75	8.653	130.42	3.126	142.08	6.301	153.75	1.572	165.42	4.798	177.08	0.791
95.50	3.902	107.17	5.746	118.83	8.525	130.50	3.223	142.17	6.206	153.83	1.637	165.50	4.733	177.17	0.824
95.58	3.836	107.25	5.922	118.92	8.397	130.58	3.321	142.25	6.109	153.92	1.701	165.58	4.668	177.25	0.858
95.67	3.771	107.33	6.094	119.00	8.271	130.67	3.418	142.33	6.013	154.00	1.766	165.67	4.603	177.33	0.895
95.75	3.706	107.42	6.265	119.08	8.146	130.75	3.515	142.42	5.917	154.08	1.833	165.75	4.539	177.42	0.931
95.83	3.642	107.50	6.438	119.17	8.023	130.83	3.613	142.50	5.823	154.17	1.902	165.83	4.474	177.50	0.968
95.92	3.578	107.58	6.609	119.25	7.902	130.92	3.711	142.58	5.729	154.25	1.970	165.92	4.411	177.58	1.007
96.00	3.515	107.67	6.781	119.33	7.783	131.00	3.809	142.67	5.637	154.33	2.039	166.00	4.348	177.67	1.047
96.08	3.450	107.75	6.956	119.42	7.665	131.08	3.909	142.75	5.547	154.42	2.110	166.08	4.283	177.75	1.087
96.17	3.382	107.83	7.133	119.50	7.548	131.17	4.009	142.83	5.458	154.50	2.183	166.17	4.218	177.83	1.126
96.25	3.312	107.92	7.315	119.58	7.432	131.25	4.110	142.92	5.371	154.58	2.258	166.25	4.154	177.92	1.167
96.33	3.242	108.00	7.502	119.67	7.316	131.33	4.211	143.00	5.284	154.67	2.335	166.33	4.091	178.00	1.210
96.42	3.170	108.08	7.696	119.75	7.200	131.42	4.310	143.08	5.199	154.75	2.415	166.42	4.028	178.08	1.255
96.50	3.097	108.17	7.892	119.83	7.083	131.50	4.409	143.17	5.114	154.83	2.496	166.50	3.965	178.17	1.303
96.58	3.025	108.25	8.090	119.92	6.967	131.58	4.510	143.25	5.028	154.92	2.580	166.58	3.903	178.25	1.352
96.67	2.956	108.33	8.284	120.00	6.853	131.67	4.610	143.33	4.944	155.00	2.664	166.67	3.841	178.33	1.404
96.75	2.890	108.42	8.473	120.08	6.740	131.75	4.710	143.42	4.859	155.08	2.744	166.75	3.780	178.42	1.458
96.83	2.825	108.50	8.664	120.17	6.627	131.83	4.813	143.50	4.776	155.17	2.821	166.83	3.718	178.50	1.514
96.92	2.762	108.58	8.854	120.25	6.514	131.92	4.920	143.58	4.693	155.25	2.897	166.92	3.657	178.58	1.571
97.00	2.702	108.67	9.043	120.33	6.401	132.00	5.030	143.67	4.608	155.33	2.974	167.00	3.596	178.67	1.630
97.08	2.645	108.75	9.232	120.42	6.293	132.08	5.141	143.75	4.522	155.42	3.051	167.08	3.534	178.75	1.688
97.17	2.590	108.83	9.423	120.50	6.185	132.17	5.254	143.83	4.436	155.50	3.127	167.17	3.470	178.83	1.744
97.25	2.536	108.92	9.614	120.58	6.078	132.25	5.368	143.92	4.353	155.58	3.205	167.25	3.406	178.92	1.801
97.33	2.482	109.00	9.804	120.67	5.971	132.33	5.483	144.00	4.273	155.67	3.284	167.33	3.342	179.00	1.860
97.42	2.430	109.08	9.994	120.75	5.866	132.42	5.598	144.08	4.195	155.75	3.364	167.42	3.278	179.08	1.918
97.50	2.380	109.17	10.181	120.83	5.762	132.50	5.713	144.17	4.119	155.83	3.442	167.50	3.214	179.17	1.975
97.58	2.330	109.25	10.366	120.92	5.659	132.58	5.828	144.25	4.045	155.92	3.519	167.58	3.148	179.25	2.033
97.67	2.283	109.33	10.549	121.00	5.556	132.67	5.943	144.33	3.972	156.00	3.594	167.67	3.079	179.33	2.093
97.75	2.236	109.42	10.729	121.08	5.455	132.75	6.056	144.42	3.900	156.08	3.669	167.75	3.010	179.42	2.153
97.83	2.191	109.50	10.906	121.17	5.354	132.83	6.165	144.50	3.829	156.17	3.742	167.83	2.944	179.50	2.213
97.92	2.147	109.58	11.077	121.25	5.253	132.92	6.272	144.58	3.760	156.25	3.816	167.92	2.880	179.58	2.274
98.00	2.104	109.67	11.246	121.33	5.153	133.00	6.379	144.67	3.691	156.33	3.889	168.00	2.817	179.67	2.337
98.08	2.062	109.75	11.413	121.42	5.054	133.08	6.483	144.75	3.621	156.42	3.963	168.08	2.756	179.75	2.400
98.17	2.020	109.83	11.579	121.50	4.956	133.17	6.587	144.83	3.551	156.50	4.036	168.17	2.698	179.83	2.464
98.25	1.977	109.92	11.743	121.58	4.859	133.25	6.691	144.92	3.480	156.58	4.109	168.25	2.642	179.92	2.529
98.33	1.932	110.00	11.907	121.67	4.763	133.33	6.795	145.00	3.409	156.67	4.182	168.33	2.587	180.00	2.593
98.42	1.887	110.08	12.068	121.75	4.666	133.42	6.900	145.08	3.337	156.75	4.255	168.42	2.534	180.08	2.656
98.50	1.843	110.17	12.227	121.83	4.567	133.50	7.006	145.17	3.265	156.83	4.325	168.50	2.482	180.17	2.719
98.58	1.800	110.25	12.382	121.92	4.468	133.58	7.113	145.25	3.194	156.92	4.394	168.58	2.431	180.25	2.780
98.67	1.757	110.33	12.534	122.00	4.371	133.67	7.220	145.33	3.121	157.00	4.464	168.67	2.381	180.33	2.838
98.75	1.715	110.42	12.682	122.08	4.271	133.75	7.330	145.42	3.047	157.08	4.533	168.75	2.333	180.42	2.894
98.83	1.674	110.50	12.827	122.17	4.172	133.83	7.442	145.50	2.977	157.17	4.602	168.83	2.287	180.50	2.951
98.92	1.636	110.58	12.970	122.25	4.078	133.92	7.554	145.58	2.909	157.25	4.671	168.92	2.242	180.58	3.007
99.00	1.599	110.67	13.110	122.33	3.989	134.00	7.666	145.67	2.843	157.33	4.739	169.00	2.198	180.67	3.062
99.08	1.564	110.75	13.248	122.42	3.903	134.08	7.777	145.75	2.778	157.42	4.808	169.08	2.155	180.75	3.117
99.17	1.530	110.83	13.385	122.50	3.820	134.17	7.887	145.83	2.717	157.50	4.879	169.17	2.113	180.83	3.172
99.25	1.497	110.92	13.519	122.58	3.740	134.25	7.993	145.92	2.658	157.58	4.951	169.25	2.071	180.92	3.228
99.33	1.465	111.00	13.649	122.67	3.662	134.33	8.098	146.00	2.602	157.67	5.022	169.33	2.031	181.00	3.283
99.42	1.435	111.08	13.781	122.75	3.586	134.42	8.199	146.08	2.547	157.75	5.092	169.42	1.989	181.08	3.339
99.50	1.404	111.17	13.910	122.83	3.512	134.50	8.298	146.17	2.492	157.83	5.162	169.50	1.946	181.17	3.395
99.58	1.375	111.25	14.031	122.92	3.440	134.58	8.393	146.25	2.439	157.92	5.232	169.58	1.901	181.25	3.450
99.67	1.347	111.33	14.147	123.00	3.370	134.67	8.484	146.33	2.387	158.00	5.301	169.67	1.858	181.33	3.503
99.75	1.320	111.42	14.256	123.08	3.300	134.75	8.572	146.42	2.336	158.08	5.370	169.75	1.817	181.42	3.554
99.83	1.294	111.50	14.359	123.17	3.229	134.83	8.658	146.50	2.287	158.17	5.438	169.83	1.775	181.50	3.603
99.92	1.268	111.58	14.459	123.25	3.156	134.92	8.741	146.58	2.239	158.25	5.504	169.92	1.734	181.58	3.650
100.00	1.243	111.67	14.556	123.33	3.082	135.00	8.825	146.67	2.192	158.33	5.570	170.00	1.694	181.67	3.697
100.08	1.219	111.75	14.649	123.42	3.008	135.08	8.905	146.75	2.147	158.42	5.634	170.08	1.656	181.75	3.743
100.17	1.196	111.83	14.740	123.50	2.937	135.17	8.983	146.83	2.102	158.50	5.696	170.17	1.620	181.83	3.788
100.25	1.173	111.92	14.830	123.58	2.866	135.25	9.060	146.92	2.059	158.58	5.757	170.25	1.585	181.92	3.833
100.33	1.150	112.00	14.918	123.67	2.797	135.33	9.133	147.00	2.016	158.67	5.817	170.33	1.552	182.00	3.877
100.42	1.128	112.08	15.004	123.75	2.732	135.42	9.204	147.08	1.971	158.75	5.876	170.42	1.520	182.08	3.921
100.50	1.105	112.17	15.085	123.83	2.669	135.50	9.272	147.17	1.925	158.83	5.934	170.50	1.489	182.17	3.964
100.58	1.081	112.25	15.161	123.92	2.608	135.58	9.338	147.25	1.879	158.92	5.990	170.58	1.458	182.25	4.007
100.67	1.057	112.33	15.233	124.00	2.550	135.67	9.400	147.33	1.834	159.00	6.044	170.67	1.429	182.33	4.049
100.75	1.034	112.42	15.300	124.08	2.492	135.75	9.461	147.42	1.789	159.08	6.097	170.75	1.400	182.42	4.091
100.83	1.012	112.50	15.364	124.17	2.436	135.83	9.520	147.50	1.745	159.17	6.149	170.83	1.372	182.50	4.132
100.92	0.989	112.58	15.423	124.25	2.380	135.92	9.576	147.58	1.702	159.25	6.198	170.92	1.345	182.58	4.173
101.00	0.967	112.67	15.482	124.33	2.326	136.00	9.629	147.67	1.661	159.33	6.244	171.00	1.319	182.67	4.214
101.08	0.944	112.75	15.535	124.42	2.274	136.08	9.680	147.75	1.621	159.42	6.288	171.08	1.293	182.75	4.251
101.17	0.923	112.83	15.579	124.50	2.223	136.17	9.727	147.83	1.584	159.50	6.332	171.17	1.269	182.83	4.289
101.25	0.903	112.92	15.622	124.58	2.173	136.25	9.771	147.92	1.548	159.58	6.374	171.25	1.245	182.92	4.327
101.33	0.884	113.00	15.665	124.67	2.125	136.33	9.811	148.00	1.513	159.67	6.415	171.33	1.222	183.00	4.363
101.42	0.866	113.08	15.699	124.75	2.078	136.42	9.850	148.08	1.480	159.75	6.455	171.42	1.199	183.08	4.397
101.50	0.848	113.17	15.722	124.83	2.032	136.50	9.882	148.17	1.447	159.83	6.494	171.50	1.176	183.17	4.430
101.58	0.831	113.25	15.742	124.92	1.985	136.58	9.910	148.25	1.416	159.92	6.533	171.58	1.154	183.25	4.463
101.67	0.815	113.33	15.759	125.00	1.935	136.67	9.939	148.33	1.385	160.00	6.570	171.67	1.132	183.33	4.495
101.75	0.800	113.42	15.771	125.08	1.886	136.75	9.964	148.42	1.356	160.08	6.605	171.75	1.111	183.42	4.525
101.83	0.785	113.50	15.777	125.17	1.839	136.83	9.984	148.50	1.327	160.17	6.639	171.83	1.088	183.50	4.554
101.92	0.770	113.58	15.776	125.25	1.791	136.92	10.000	148.58	1.300	160.25	6.671	171.92	1.064	183.58	4.583
102.00	0.756	113.67	15.768	125.33	1.744	137.00	10.016	148.67	1.273	160.33	6.700	172.00	1.041	183.67	4.611
102.08	0.743	113.75	15.756	125.42	1.698	137.08	10.029	148.75	1.247	160.42	6.731	172.08	1.019	183.75	4.638
102.17	0.731	113.83	15.739	125.50	1.654	137.17	10.039	148.83	1.223	160.50	6.759	172.17	0.997	183.83	4.664
102.25	0.721	113.92	15.716	125.58	1.612	137.25	10.045	148.92	1.198	160.58	6.780	172.25	0.975	183.92	4.689
102.33	0.713	114.00	15.689	125.67	1.572	137.33	10.048	149.00	1.174	160.67	6.804	172.33	0.953	184.00	4.714
102.42	0.706	114.08	15.656	125.75	1.534	137.42	10.046	149.08	1.151	160.75	6.828	172.42	0.932	184.08	4.738
102.50	0.702	114.17	15.617	125.83	1.497	137.50	10.040	149.17	1.128	160.83	6.846	172.50	0.911	184.17	4.761
102.58	0.698	114.25	15.571	125.92	1.462	137.58	10.032	149.25	1.104	160.92	6.861	172.58	0.892	184.25	4.783
102.67	0.695	114.33	15.518	126.00	1.428	137.67	10.020	149.33	1.080	161.00	6.876	172.67	0.874	184.33	4.803
102.75	0.693	114.42	15.459	126.08	1.395	137.75	10.007	149.42	1.055	161.08	6.891	172.75	0.856	184.42	4.823
102.83	0.692	114.50	15.392	126.17	1.364	137.83	9.990	149.50	1.032	161.17	6.903	172.83	0.840	184.50	4.840
102.92	0.693	114.58	15.327	126.25	1.336	137.92	9.970	149.58	1.009	161.25	6.912	172.92	0.824	184.58	4.854
103.00	0.695	114.67	15.261	126.33	1.309	138.00	9.948	149.67	0.986	161.33	6.916	173.00	0.808	184.67	4.870
103.08	0.700	114.75	15.183	126.42	1.285	138.08	9.923	149.75	0.963	161.42	6.916	173.08	0.793	184.75	4.884
103.17	0.708	114.83	15.099	126.50	1.263	138.17	9.895	149.83	0.941	161.50	6.915	173.17	0.778	184.83	4.893
103.25	0.720	114.92	15.012	126.58	1.242	138.25	9.863	149.92	0.919	161.58	6.913	173.25	0.764	184.92	4.903
103.33	0.736	115.00	14.920	126.67	1.223	138.33	9.827	150.00	0.899	161.67	6.909	173.33	0.750	185.00	4.912
103.42	0.756	115.08	14.824	126.75	1.205	138.42	9.787	150.08	0.880	161.75	6.903	173.42	0.737	185.08	4.921
103.50	0.781	115.17	14.724	126.83	1.188	138.50	9.748	150.17	0.862	161.83	6.895	173.50	0.723	185.17	4.928
103.58	0.810	115.25	14.620	126.92	1.173	138.58	9.707	150.25	0.846	161.92	6.885	173.58	0.710	185.25	4.931
103.67	0.844	115.33	14.513	127.00	1.159	138.67	9.662	150.33	0.831	162.00	6.872	173.67	0.697	185.33	4.931
103.75	0.882	115.42	14.400	127.08	1.148	138.75	9.615	150.42	0.818	162.08	6.856	173.75	0.685	185.42	4.931
103.83	0.924	115.50	14.281	127.17	1.138	138.83	9.565	150.50	0.806	162.17	6.840	173.83	0.672	185.50	4.929
103.92	0.968	115.58	14.160	127.25	1.131	138.92	9.511	150.58	0.795	162.25	6.822	173.92	0.659	185.58	4.926
104.00	1.014	115.67	14.035	127.33	1.127	139.00	9.455	150.67	0.785	162.33	6.800	174.00	0.646	185.67	4.922
104.08	1.066	115.75	13.907	127.42	1.126	139.08	9.398	150.75	0.775	162.42	6.772	174.08	0.634	185.75	4.916
104.17	1.123	115.83	13.776	127.50	1.127	139.17	9.338	150.83	0.766	162.50	6.743	174.17	0.622	185.83	4.909
104.25	1.183	115.92	13.643	127.58	1.131	139.25	9.274	150.92	0.759	162.58	6.716	174.25	0.610	185.92	4.900
104.33	1.250	116.00	13.508	127.67	1.138	139.33	9.208	151.00	0.752	162.67	6.682	174.33	0.599	186.00	4.890
104.42	1.324	116.08	13.370	127.75	1.147	139.42	9.138	151.08	0.746	162.75	6.647	174.42	0.589	186.08	4.879
104.50	1.407	116.17	13.231	127.83	1.159	139.50	9.066	151.17	0.742	162.83	6.612	174.50	0.580	186.17	4.866
104.58	1.496	116.25	13.090	127.92	1.174	139.58	8.992	151.25	0.739	162.92	6.572	174.58	0.571	186.25	4.852
104.67	1.589	116.33	12.946	128.00	1.192	139.67	8.915	151.33	0.737	163.00	6.530	174.67	0.563	186.33	4.835
104.75	1.685	116.42	12.801	128.08	1.214	139.75	8.837	151.42	0.738	163.08	6.489	174.75	0.555	186.42	4.815
104.83	1.785	116.50	12.653	128.17	1.239	139.83	8.756	151.50	0.740	163.17	6.446	174.83	0.548	186.50	4.792
104.92	1.893	116.58	12.503	128.25	1.268	139.92	8.672	151.58	0.743	163.25	6.401	174.92	0.541	186.58	4.771

TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
186.67	4.747	198.33	0.434	210.00	3.707	221.67	0.389	233.33	4.480	245.00	0.551	256.67	0.036	268.33	0.001
186.75	4.721	198.42	0.426	210.08	3.696	221.75	0.381	233.42	4.480	245.08	0.541	256.75	0.035	268.42	0.001
186.83	4.694	198.50	0.418	210.17	3.686	221.83	0.374	233.50	4.479	245.17	0.530	256.83	0.035	268.50	0.001
186.92	4.666	198.58	0.411	210.25	3.674	221.92	0.367	233.58	4.477	245.25	0.521	256.92	0.034	268.58	0.001
187.00	4.636	198.67	0.405	210.33	3.660	222.00	0.361	233.67	4.474	245.33	0.511	257.00	0.033	268.67	0.001
187.08	4.607	198.75	0.400	210.42	3.644	222.08	0.354	233.75	4.468	245.42	0.500	257.08	0.032	268.75	0.001
187.17	4.577	198.83	0.395	210.50	3.627	222.17	0.348	233.83	4.462	245.50	0.488	257.17	0.031	268.83	0.001
187.25	4.545	198.92	0.391	210.58	3.610	222.25	0.342	233.92	4.454	245.58	0.478	257.25	0.031	268.92	0.001
187.33	4.512	199.00	0.388	210.67	3.592	222.33	0.337	234.00	4.445	245.67	0.467	257.33	0.030	269.00	0.001
187.42	4.478	199.08	0.385	210.75	3.571	222.42	0.332	234.08	4.434	245.75	0.457	257.42	0.029	269.08	0.001
187.50	4.441	199.17	0.383	210.83	3.550	222.50	0.328	234.17	4.420	245.83	0.448	257.50	0.028	269.17	0.001
187.58	4.403	199.25	0.382	210.92	3.526	222.58	0.324	234.25	4.406	245.92	0.438	257.58	0.028	269.25	0.001
187.67	4.364	199.33	0.382	211.00	3.501	222.67	0.321	234.33	4.390	246.00	0.427	257.67	0.027	269.33	0.001
187.75	4.323	199.42	0.382	211.08	3.475	222.75	0.318	234.42	4.372	246.08	0.417	257.75	0.026	269.42	0.001
187.83	4.281	199.50	0.383	211.17	3.447	222.83	0.315	234.50	4.352	246.17	0.408	257.83	0.026	269.50	0.001
187.92	4.240	199.58	0.385	211.25	3.419	222.92	0.313	234.58	4.331	246.25	0.399	257.92	0.025	269.58	0.001
188.00	4.198	199.67	0.388	211.33	3.390	223.00	0.311	234.67	4.307	246.33	0.391	258.00	0.024	269.67	0.000
188.08	4.153	199.75	0.392	211.42	3.361	223.08	0.310	234.75	4.283	246.42	0.384	258.08	0.024	269.75	0.000
188.17	4.110	199.83	0.397	211.50	3.330	223.17	0.310	234.83	4.260	246.50	0.376	258.17	0.023	269.83	0.000
188.25	4.066	199.92	0.403	211.58	3.300	223.25	0.311	234.92	4.234	246.58	0.369	258.25	0.023	269.92	0.000
188.33	4.022	200.00	0.410	211.67	3.269	223.33	0.313	235.00	4.206	246.67	0.363	258.33	0.022	270.00	0.000
188.42	3.977	200.08	0.417	211.75	3.236	223.42	0.316	235.08	4.180	246.75	0.356	258.42	0.021	270.08	0.000
188.50	3.931	200.17	0.427	211.83	3.201	223.50	0.320	235.17	4.151	246.83	0.349	258.50	0.021	270.17	0.000
188.58	3.885	200.25	0.437	211.92	3.167	223.58	0.325	235.25	4.120	246.92	0.342	258.58	0.020	270.25	0.000
188.67	3.838	200.33	0.447	212.00	3.132	223.67	0.331	235.33	4.089	247.00	0.336	258.67	0.020	270.33	0.000
188.75	3.791	200.42	0.457	212.08	3.096	223.75	0.338	235.42	4.057	247.08	0.329	258.75	0.019	270.42	0.000
188.83	3.743	200.50	0.468	212.17	3.060	223.83	0.346	235.50	4.024	247.17	0.322	258.83	0.019	270.50	0.000
188.92	3.695	200.58	0.480	212.25	3.022	223.92	0.355	235.58	3.989	247.25	0.316	258.92	0.018	270.58	0.000
189.00	3.645	200.67	0.492	212.33	2.981	224.00	0.365	235.67	3.954	247.33	0.309	259.00	0.018	270.67	0.000
189.08	3.594	200.75	0.505	212.42	2.942	224.08	0.377	235.75	3.918	247.42	0.303	259.08	0.017	270.75	0.000
189.17	3.541	200.83	0.519	212.50	2.902	224.17	0.390	235.83	3.879	247.50	0.297	259.17	0.017	270.83	0.000
189.25	3.487	200.92	0.535	212.58	2.861	224.25	0.405	235.92	3.843	247.58	0.292	259.25	0.016	270.92	0.000
189.33	3.434	201.00	0.552	212.67	2.819	224.33	0.421	236.00	3.804	247.67	0.286	259.33	0.016	271.00	0.000
189.42	3.380	201.08	0.571	212.75	2.777	224.42	0.436	236.08	3.764	247.75	0.281	259.42	0.016	271.08	0.000
189.50	3.326	201.17	0.592	212.83	2.734	224.50	0.453	236.17	3.723	247.83	0.276	259.50	0.015	271.17	0.000
189.58	3.273	201.25	0.614	212.92	2.691	224.58	0.471	236.25	3.683	247.92	0.271	259.58	0.015	271.25	0.000
189.67	3.220	201.33	0.638	213.00	2.648	224.67	0.490	236.33	3.642	248.00	0.266	259.67	0.014	271.33	0.000
189.75	3.168	201.42	0.663	213.08	2.605	224.75	0.508	236.42	3.599	248.08	0.261	259.75	0.014	271.42	0.000
189.83	3.115	201.50	0.690	213.17	2.564	224.83	0.528	236.50	3.554	248.17	0.257	259.83	0.014	271.50	0.000
189.92	3.062	201.58	0.718	213.25	2.523	224.92	0.549	236.58	3.508	248.25	0.252	259.92	0.013	271.58	0.000
190.00	3.008	201.67	0.749	213.33	2.483	225.00	0.572	236.67	3.461	248.33	0.248	260.00	0.013	271.67	0.000
190.08	2.954	201.75	0.780	213.42	2.444	225.08	0.598	236.75	3.412	248.42	0.244	260.08	0.013	271.75	0.000
190.17	2.901	201.83	0.814	213.50	2.405	225.17	0.625	236.83	3.364	248.50	0.240	260.17	0.012	271.83	0.000
190.25	2.846	201.92	0.850	213.58	2.367	225.25	0.653	236.92	3.315	248.58	0.236	260.25	0.012	271.92	0.000
190.33	2.791	202.00	0.886	213.67	2.329	225.33	0.684	237.00	3.267	248.67	0.232	260.33	0.012	272.00	0.000
190.42	2.738	202.08	0.922	213.75	2.291	225.42	0.717	237.08	3.219	248.75	0.228	260.42	0.011	272.08	0.000
190.50	2.686	202.17	0.958	213.83	2.254	225.50	0.753	237.17	3.171	248.83	0.224	260.50	0.011	272.17	0.000
190.58	2.635	202.25	0.996	213.92	2.217	225.58	0.790	237.25	3.124	248.92	0.221	260.58	0.011	272.25	0.000
190.67	2.584	202.33	1.036	214.00	2.180	225.67	0.831	237.33	3.075	249.00	0.217	260.67	0.010	272.33	0.000
190.75	2.535	202.42	1.074	214.08	2.144	225.75	0.872	237.42	3.026	249.08	0.214	260.75	0.010	272.42	0.000
190.83	2.488	202.50	1.110	214.17	2.108	225.83	0.913	237.50	2.977	249.17	0.210	260.83	0.010	272.50	0.000
190.92	2.441	202.58	1.148	214.25	2.072	225.92	0.955	237.58	2.929	249.25	0.207	260.92	0.010	272.58	0.000
191.00	2.396	202.67	1.187	214.33	2.036	226.00	1.000	237.67	2.879	249.33	0.203	261.00	0.009	272.67	0.000
191.08	2.352	202.75	1.228	214.42	2.001	226.08	1.045	237.75	2.828	249.42	0.200	261.08	0.009	272.75	0.000
191.17	2.310	202.83	1.269	214.50	1.967	226.17	1.090	237.83	2.777	249.50	0.197	261.17	0.009	272.83	0.000
191.25	2.268	202.92	1.312	214.58	1.931	226.25	1.134	237.92	2.726	249.58	0.194	261.25	0.009	272.92	0.000
191.33	2.228	203.00	1.356	214.67	1.895	226.33	1.180	238.00	2.676	249.67	0.190	261.33	0.008	273.00	0.000
191.42	2.188	203.08	1.402	214.75	1.859	226.42	1.227	238.08	2.627	249.75	0.187	261.42	0.008	273.08	0.000
191.50	2.148	203.17	1.449	214.83	1.825	226.50	1.277	238.17	2.579	249.83	0.184	261.50	0.008	273.17	0.000
191.58	2.109	203.25	1.496	214.92	1.791	226.58	1.328	238.25	2.532	249.92	0.181	261.58	0.008	273.25	0.000
191.67	2.070	203.33	1.545	215.00	1.757	226.67	1.381	238.33	2.487	250.00	0.178	261.67	0.007	273.33	0.000
191.75	2.031	203.42	1.594	215.08	1.724	226.75	1.435	238.42	2.442	250.08	0.176	261.75	0.007	273.42	0.000
191.83	1.992	203.50	1.645	215.17	1.691	226.83	1.491	238.50	2.399	250.17	0.173	261.83	0.007	273.50	0.000
191.92	1.952	203.58	1.694	215.25	1.660	226.92	1.549	238.58	2.357	250.25	0.170	261.92	0.007	273.58	0.000
192.00	1.911	203.67	1.741	215.33	1.630	227.00	1.607	238.67	2.316	250.33	0.167	262.00	0.007	273.67	0.000
192.08	1.871	203.75	1.789	215.42	1.601	227.08	1.665	238.75	2.276	250.42	0.164	262.08	0.007	273.75	0.000
192.17	1.833	203.83	1.837	215.50	1.573	227.17	1.721	238.83	2.236	250.50	0.161	262.17	0.006	273.83	0.000
192.25	1.795	203.92	1.885	215.58	1.545	227.25	1.778	238.92	2.197	250.58	0.159	262.25	0.006	273.92	0.000
192.33	1.757	204.00	1.931	215.67	1.518	227.33	1.835	239.00	2.158	250.67	0.156	262.33	0.006	274.00	0.000
192.42	1.720	204.08	1.977	215.75	1.492	227.42	1.893	239.08	2.120	250.75	0.153	262.42	0.006	274.08	0.000
192.50	1.684	204.17	2.024	215.83	1.466	227.50	1.949	239.17	2.082	250.83	0.150	262.50	0.006	274.17	0.000
192.58	1.650	204.25	2.071	215.92	1.440	227.58	2.005	239.25	2.044	250.92	0.147	262.58	0.006	274.25	0.000
192.67	1.618	204.33	2.118	216.00	1.415	227.67	2.062	239.33	2.006	251.00	0.145	262.67	0.005	274.33	0.000
192.75	1.586	204.42	2.166	216.08	1.391	227.75	2.120	239.42	1.967	251.08	0.142	262.75	0.005	274.42	0.000
192.83	1.556	204.50	2.213	216.17	1.367	227.83	2.178	239.50	1.928	251.17	0.139	262.83	0.005	274.50	0.000
192.92	1.526	204.58	2.260	216.25	1.344	227.92	2.236	239.58	1.889	251.25	0.136	262.92	0.005	274.58	0.000
193.00	1.497	204.67	2.307	216.33	1.321	228.00	2.294	239.67	1.851	251.33	0.133	263.00	0.005	274.67	0.000
193.08	1.469	204.75	2.355	216.42	1.299	228.08	2.353	239.75	1.814	251.42	0.131	263.08	0.005	274.75	0.000
193.17	1.442	204.83	2.402	216.50	1.277	228.17	2.413	239.83	1.778	251.50	0.128	263.17	0.005	274.83	0.000
193.25	1.415	204.92	2.450	216.58	1.255	228.25	2.473	239.92	1.741	251.58	0.125	263.25	0.005	274.92	0.000
193.33	1.389	205.00	2.497	216.67	1.234	228.33	2.532	240.00	1.706	251.67	0.123	263.33	0.004	275.00	0.000
193.42	1.363	205.08	2.545	216.75	1.214	228.42	2.591	240.08	1.672	251.75	0.121	263.42	0.004	275.08	0.000
193.50	1.338	205.17	2.591	216.83	1.193	228.50	2.649	240.17	1.640	251.83	0.118	263.50	0.004	275.17	0.000
193.58	1.314	205.25	2.636	216.92	1.172	228.58	2.707	240.25	1.608	251.92	0.116	263.58	0.004	275.25	0.000
193.67	1.291	205.33	2.680	217.00	1.152	228.67	2.764	240.33	1.578	252.00	0.114	263.67	0.004	275.33	0.000
193.75	1.268	205.42	2.723	217.08	1.132	228.75	2.818	240.42	1.549	252.08	0.112	263.75	0.004	275.42	0.000
193.83	1.245	205.50	2.766	217.17	1.112	228.83	2.870	240.50	1.520	252.17	0.110	263.83	0.004	275.50	0.000
193.92	1.223	205.58	2.808	217.25	1.092	228.92	2.921	240.58	1.492	252.25	0.108	263.92	0.004	275.58	0.000
194.00	1.202	205.67	2.847	217.33	1.070	229.00	2.972	240.67	1.465	252.33	0.106	264.00	0.003	275.67	0.000
194.08	1.180	205.75	2.885	217.42	1.049	229.08	3.022	240.75	1.438	252.42	0.104	264.08	0.003	275.75	0.000
194.17	1.159	205.83	2.921	217.50	1.028	229.17	3.070	240.83	1.412	252.50	0.102	264.17	0.003	275.83	0.000
194.25	1.138	205.92	2.958	217.58	1.008	229.25	3.119	240.92	1.386	252.58	0.100	264.25	0.003	275.92	0.000
194.33	1.118	206.00	2.993	217.67	0.987	229.33	3.167	241.00	1.362	252.67	0.098	264.33	0.003	276.00	0.000
194.42	1.097	206.08	3.027	217.75	0.966	229.42	3.216	241.08	1.337	252.75	0.097	264.42	0.003	276.08	0.000
194.50	1.074	206.17	3.061	217.83	0.946	229.50	3.265	241.17	1.314	252.83	0.095	264.50	0.003	276.17	0.000
194.58	1.052	206.25	3.095	217.92	0.927	229.58	3.314	241.25	1.291	252.92	0.093	264.58	0.003	276.25	0.000
194.67	1.030	206.33	3.128	218.00	0.908	229.67	3.362	241.33	1.268	253.00	0.092	264.67	0.003	276.33	0.000
194.75	1.009	206.42	3.161	218.08	0.891	229.75	3.411	241.42	1.246	253.08	0.090	264.75	0.003	276.42	0.000
194.83	0.988	206.50	3.194	218.17	0.874	229.83	3.458	241.50	1.225	253.17	0.088	264.83	0.003	276.50	0.000
194.92	0.967	206.58	3.227	218.25	0.858	229.92	3.503	241.58	1.203	253.25	0.087	264.92	0.003	276.58	0.000
195.00	0.946	206.67	3.259	218.33	0.842	230.00	3.546	241.67	1.182	253.33	0.085	265.00	0.002	276.67	0.000
195.08	0.925	206.75	3.290	218.42	0.827	230.08	3.587	241.75	1.161	253.42	0.084	265.08	0.002	276.75	0.000
195.17	0.906	206.83	3.321	218.50	0.813	230.17	3.627	241.83	1.141	253.50	0.082	265.17	0.002	276.83	0.000
195.25	0.888	206.92	3.351	218.58	0.798	230.25	3.666	241.92	1.120	253.58	0.080	265.25	0.002	276.92	0.000
195.33	0.871	207.00	3.379	218.67	0.784	230.33	3.702	242.00	1.100	253.67	0.079	265.33	0.002	277.00	0.000
195.42	0.854	207.08	3.407	218.75	0.771	230.42	3.737	242.08	1.078	253.75	0.077	265.42	0.002	277.08	0.000
195.50	0.838	207.17	3.433	218.83	0.758	230.50	3.772	242.17	1.056	253.83	0.076	265.50	0.002	277.17	0.000
195.58	0.823	207.25	3.457	218.92	0.745	230.58	3.809	242.25	1.034	253.92	0.075	265.58	0.002	277.25	0.000
195.67	0.808	207.33	3.481	219.00	0.732	230.67	3.842	242.33	1.013	254.00	0.073	265.67	0.002	277.33	0.000
195.75	0.793	207.42	3.503	219.08	0.719	230.75	3.876	242.42	0.993	254.08	0.072	265.75	0.002	277.42	0.000
195.83	0.779	207.50	3.524	219.17	0.707	230.83	3.910	242.50	0.971	254.17	0.070	265.83	0.002	277.50	0.000
195.92	0.765	207.58	3.544	219.25	0.695	230.92	3.943	242.58	0.950	254.25	0.069	265.92	0.002	277.58	0.000
196.00	0.752	207.67	3.563	219.33	0.682	231.00	3.976	242.67	0.930	254.33	0.068	266.00	0.002	277.67	0.000
196.08	0.738	207.75	3.580	219.42	0.670	231.08	4.008	242.75	0.911	254.42	0.066	266.08	0.002	277.75	0.000
196.17	0.726	207.83	3.595	219.50	0.658	231.17	4.039	242.83	0.893	254.50	0.065	266.17	0.002	277.83	0.000
196.25	0.713	207.92	3.612	219.58	0.646	231.25	4.070	242.92	0.876	254.58	0.064	266.25	0.002	277.92	0.000
196.33	0.700	208.00	3.628	219.67	0.634	231.33	4.099	243.00	0.859	254.67	0.062	266.33	0.002	278.00	0.000
196.42	0.688	208.08	3.641	219.75	0.622	231.42	4.127	243.08	0.843	254.75	0.061	266.42	0.002	278.08	0.000
196.50	0.675	208.17	3.655	219.83	0.610	231.50	4.155	243.17	0.828	254.83	0.060	266.50	0.001	278.17	0.000
196.58	0.663	208.25	3.669	219.92	0.598	231.58	4.181	243.25	0.813	254.92	0.058	266.58	0.001	278.25	0.000
196.67	0.650	208.33	3.679	220.00	0.587	231.67	4.207	243.33	0.798	255.00	0.057	266.67	0.001	278.33	0.000
196.75	0.638	208.42	3.691	220.08	0.576	231.75	4.232	243.42	0.784	255.08	0.056	266.75	0.001	278.42	0.000
196.83	0.625	208.50	3.702	220.17	0.565	231.83	4.255	243.50	0.770	255.17	0.055	266.83	0.001	278.50	0.000
196.92	0.613	208.58	3.709	220.25	0.555	231.92	4.278	243.58	0.757	255.25	0.054	266.92	0.001	278.58	0.000
197.00	0.601	208.67	3.718	220.33	0.545	232.00	4.300	243.67	0.744	255.33	0.052	267.00	0.001	278.67	0.000
197.08	0.589	208.75	3.727	220.42	0.535	232.08	4.321	243.75	0.731	255.42	0.051	267.08	0.001	278.75	0.000
197.17	0.578	208.83	3.734	220.50	0.525	232.17	4.340	243.83	0.718	255.50	0.050	267.17	0.001	278.83	0.000
197.25	0.567	208.92	3.738	220.58	0.515	232.25	4.358	243.92	0.705	255.58	0.049	267.25	0.001	278.92	0.000
197.33	0.556	209.00	3.743	220.67	0.505	232.33	4.376	244.00	0.693	255.67	0.048	267.33	0.001	279.00	0.000
197.42	0.545	209.08	3.747	220.75	0.494	232.42	4.390	244.08	0.680	255.75	0.047	267.42	0.001	279.08	0.000
197.50	0.535	209.17	3.750	220.83	0.483	232.50	4.402	244.17	0.668	255.83	0.046	267.50	0.001	279.17	0.000
197.58	0.525	209.25	3.751	220.92	0.473	232.58	4.416	244.25	0.656	255.92	0.045	267.58	0.001	279.25	0.000
197.67	0.515	209.33	3.752	221.00	0.463	232.67	4.428	244.33	0.643	256.00	0.044	267.67	0.001	279.33	0.000
197.75	0.505	209.42	3.751	221.08	0.453	232.75	4.438	244.42	0.631	256.08	0.043	267.75	0.001	279.42	0.000
197.83	0.493	209.50	3.748	221.17	0.444	232.83	4.448	244.50	0.619	256.17	0.042	267.83	0.001	279.50	0.000
197.92	0.482	209.58	3.743	221.25	0.434	232.92	4.457	244.58	0.607	256.25	0.041	267.92	0.001	279.58	0.000
198.00	0.471	209.67	3.738	221.33	0.423	233.00	4.463	244.67	0.595	256.33	0.040	268.00	0.001	279.67	0.000
198.08	0.461	209.75	3.732	221.42	0.414	233.08	4.468	244.75	0.583	256.42	0.039	268.08	0.001	279.75	0.000
198.17	0.452	209.83	3.724	221.50	0.405	233.17	4.473	244.83	0.572	256.50	0.038	268.17	0.001	279.83	0.000
198.25	0.443	209.92	3.716	221.58	0.396	233.25	4.477	244.92	0.561	256.58	0.037	268.25	0.001	279.92	0.000

FORTUNE (VG SPRING)



Hydrograph Statistics:

Legend	Filename & Comment	Time Step (min)	Drainage Area (ha)	Peak Flow (cms)	Time to Peak (hrs)	Runoff Volume (mm)	Runoff Volume (cu.m)	Duration of flow (hrs)	Average flow (cms)
——●	H-FORTUN.100: Fortune	5.00	1126.70	15.740	113.417	246.74	2.780E+06	274.417	2.814

Hydrograph Table:

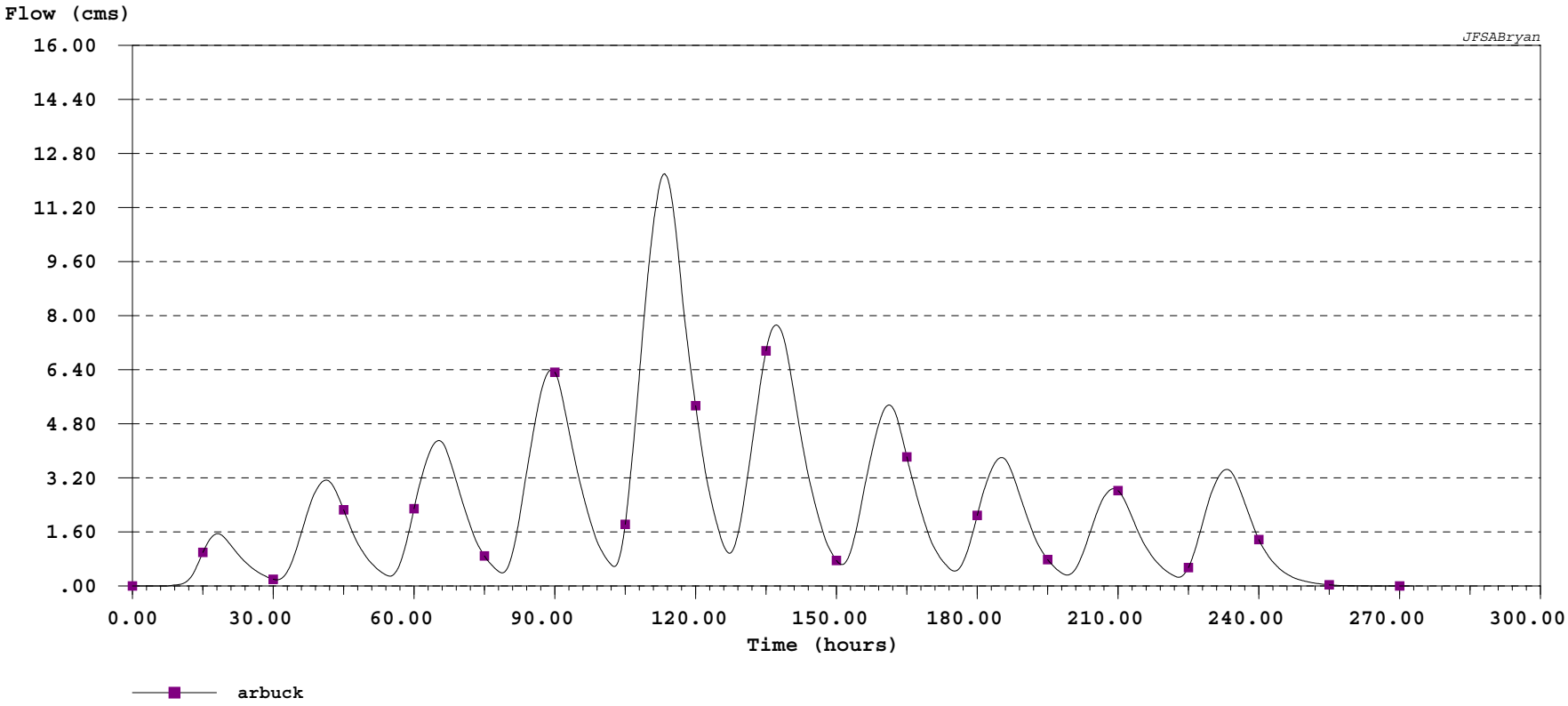
Hydrograph Filename : Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSPRI~1\H-FORTUN.100
Comment in file : Fortune

TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
0.00	0.000	11.67	0.207	23.33	0.963	35.00	1.495	46.67	1.966	58.33	1.683	70.00	3.299	81.67	1.834
0.08	0.000	11.75	0.221	23.42	0.945	35.08	1.545	46.75	1.928	58.42	1.746	70.08	3.237	81.75	1.917
0.17	0.000	11.83	0.234	23.50	0.929	35.17	1.596	46.83	1.890	58.50	1.810	70.17	3.173	81.83	2.002
0.25	0.000	11.92	0.248	23.58	0.913	35.25	1.649	46.92	1.854	58.58	1.876	70.25	3.111	81.92	2.090
0.33	0.000	12.00	0.263	23.67	0.897	35.33	1.700	47.00	1.818	58.67	1.943	70.33	3.051	82.00	2.179
0.42	0.000	12.08	0.279	23.75	0.882	35.42	1.752	47.08	1.784	58.75	2.011	70.42	2.994	82.08	2.269
0.50	0.000	12.17	0.297	23.83	0.867	35.50	1.804	47.17	1.750	58.83	2.080	70.50	2.938	82.17	2.358
0.58	0.000	12.25	0.316	23.92	0.853	35.58	1.857	47.25	1.717	58.92	2.149	70.58	2.883	82.25	2.448
0.67	0.000	12.33	0.336	24.00	0.838	35.67	1.911	47.33	1.685	59.00	2.218	70.67	2.827	82.33	2.539
0.75	0.000	12.42	0.357	24.08	0.824	35.75	1.964	47.42	1.653	59.08	2.287	70.75	2.770	82.42	2.633
0.83	0.000	12.50	0.380	24.17	0.810	35.83	2.017	47.50	1.622	59.17	2.355	70.83	2.711	82.50	2.730
0.92	0.000	12.58	0.404	24.25	0.796	35.92	2.070	47.58	1.592	59.25	2.422	70.92	2.654	82.58	2.824
1.00	0.000	12.67	0.429	24.33	0.783	36.00	2.122	47.67	1.562	59.33	2.490	71.00	2.599	82.67	2.913
1.08	0.000	12.75	0.454	24.42	0.770	36.08	2.174	47.75	1.533	59.42	2.560	71.08	2.547	82.75	3.000
1.17	0.000	12.83	0.479	24.50	0.757	36.17	2.227	47.83	1.504	59.50	2.632	71.17	2.495	82.83	3.089
1.25	0.000	12.92	0.505	24.58	0.744	36.25	2.279	47.92	1.476	59.58	2.702	71.25	2.443	82.92	3.179
1.33	0.000	13.00	0.531	24.67	0.731	36.33	2.330	48.00	1.449	59.67	2.769	71.33	2.392	83.00	3.272
1.42	0.000	13.08	0.558	24.75	0.719	36.42	2.380	48.08	1.422	59.75	2.835	71.42	2.342	83.08	3.367
1.50	0.000	13.17	0.587	24.83	0.707	36.50	2.430	48.17	1.396	59.83	2.901	71.50	2.294	83.17	3.463
1.58	0.000	13.25	0.617	24.92	0.695	36.58	2.480	48.25	1.369	59.92	2.965	71.58	2.248	83.25	3.561
1.67	0.000	13.33	0.649	25.00	0.682	36.67	2.531	48.33	1.343	60.00	3.028	71.67	2.204	83.33	3.648
1.75	0.000	13.42	0.683	25.08	0.670	36.75	2.583	48.42	1.318	60.08	3.092	71.75	2.162	83.42	3.730
1.83	0.000	13.50	0.719	25.17	0.658	36.83	2.634	48.50	1.293	60.17	3.157	71.83	2.121	83.50	3.815
1.92	0.000	13.58	0.755	25.25	0.646	36.92	2.683	48.58	1.270	60.25	3.223	71.92	2.080	83.58	3.899
2.00	0.000	13.67	0.790	25.33	0.634	37.00	2.730	48.67	1.247	60.33	3.289	72.00	2.040	83.67	3.983
2.08	0.000	13.75	0.825	25.42	0.622	37.08	2.776	48.75	1.225	60.42	3.354	72.08	2.000	83.75	4.068
2.17	0.000	13.83	0.860	25.50	0.609	37.17	2.823	48.83	1.203	60.50	3.420	72.17	1.960	83.83	4.154
2.25	0.000	13.92	0.895	25.58	0.597	37.25	2.870	48.92	1.182	60.58	3.486	72.25	1.921	83.92	4.240
2.33	0.000	14.00	0.929	25.67	0.586	37.33	2.914	49.00	1.161	60.67	3.552	72.33	1.880	84.00	4.326
2.42	0.000	14.08	0.964	25.75	0.574	37.42	2.957	49.08	1.140	60.75	3.612	72.42	1.839	84.08	4.413
2.50	0.000	14.17	0.999	25.83	0.563	37.50	2.999	49.17	1.120	60.83	3.667	72.50	1.799	84.17	4.499
2.58	0.000	14.25	1.035	25.92	0.553	37.58	3.041	49.25	1.099	60.92	3.723	72.58	1.759	84.25	4.586
2.67	0.000	14.33	1.072	26.00	0.543	37.67	3.083	49.33	1.078	61.00	3.776	72.67	1.721	84.33	4.673
2.75	0.000	14.42	1.110	26.08	0.533	37.75	3.124	49.42	1.058	61.08	3.829	72.75	1.684	84.42	4.759
2.83	0.000	14.50	1.147	26.17	0.524	37.83	3.165	49.50	1.037	61.17	3.882	72.83	1.648	84.50	4.844
2.92	0.000	14.58	1.186	26.25	0.514	37.92	3.207	49.58	1.017	61.25	3.934	72.92	1.614	84.58	4.928
3.00	0.000	14.67	1.223	26.33	0.505	38.00	3.248	49.67	0.998	61.33	3.987	73.00	1.580	84.67	5.020
3.08	0.000	14.75	1.260	26.42	0.496	38.08	3.290	49.75	0.979	61.42	4.040	73.08	1.547	84.75	5.115
3.17	0.000	14.83	1.296	26.50	0.488	38.17	3.330	49.83	0.960	61.50	4.092	73.17	1.515	84.83	5.209
3.25	0.000	14.92	1.330	26.58	0.479	38.25	3.370	49.92	0.941	61.58	4.144	73.25	1.484	84.92	5.302
3.33	0.000	15.00	1.365	26.67	0.470	38.33	3.409	50.00	0.921	61.67	4.197	73.33	1.454	85.00	5.394
3.42	0.000	15.08	1.400	26.75	0.462	38.42	3.448	50.08	0.903	61.75	4.248	73.42	1.425	85.08	5.486
3.50	0.000	15.17	1.433	26.83	0.453	38.50	3.485	50.17	0.884	61.83	4.300	73.50	1.397	85.17	5.576
3.58	0.000	15.25	1.467	26.92	0.445	38.58	3.520	50.25	0.867	61.92	4.351	73.58	1.369	85.25	5.665
3.67	0.000	15.33	1.499	27.00	0.436	38.67	3.553	50.33	0.850	62.00	4.402	73.67	1.341	85.33	5.753
3.75	0.000	15.42	1.532	27.08	0.428	38.75	3.587	50.42	0.833	62.08	4.453	73.75	1.314	85.42	5.840
3.83	0.000	15.50	1.564	27.17	0.420	38.83	3.613	50.50	0.818	62.17	4.502	73.83	1.287	85.50	5.925
3.92	0.000	15.58	1.595	27.25	0.413	38.92	3.636	50.58	0.802	62.25	4.551	73.92	1.262	85.58	6.009
4.00	0.000	15.67	1.626	27.33	0.405	39.00	3.661	50.67	0.787	62.33	4.599	74.00	1.237	85.67	6.091
4.08	0.000	15.75	1.656	27.42	0.398	39.08	3.687	50.75	0.773	62.42	4.646	74.08	1.214	85.75	6.173
4.17	0.000	15.83	1.686	27.50	0.390	39.17	3.710	50.83	0.759	62.50	4.693	74.17	1.191	85.83	6.254
4.25	0.000	15.92	1.715	27.58	0.383	39.25	3.733	50.92	0.745	62.58	4.738	74.25	1.169	85.92	6.333
4.33	0.000	16.00	1.742	27.67	0.377	39.33	3.757	51.00	0.731	62.67	4.782	74.33	1.147	86.00	6.412
4.42	0.000	16.08	1.769	27.75	0.370	39.42	3.780	51.08	0.718	62.75	4.825	74.42	1.126	86.08	6.489
4.50	0.000	16.17	1.795	27.83	0.363	39.50	3.803	51.17	0.705	62.83	4.876	74.50	1.105	86.17	6.565
4.58	0.000	16.25	1.820	27.92	0.357	39.58	3.825	51.25	0.692	62.92	4.921	74.58	1.084	86.25	6.640
4.67	0.000	16.33	1.845	28.00	0.351	39.67	3.847	51.33	0.679	63.00	4.964	74.67	1.063	86.33	6.714
4.75	0.000	16.42	1.868	28.08	0.345	39.75	3.868	51.42	0.667	63.08	5.007	74.75	1.041	86.42	6.787
4.83	0.000	16.50	1.890	28.17	0.339	39.83	3.889	51.50	0.654	63.17	5.048	74.83	1.021	86.50	6.860
4.92	0.000	16.58	1.911	28.25	0.333	39.92	3.908	51.58	0.642	63.25	5.086	74.92	1.000	86.58	6.931
5.00	0.000	16.67	1.930	28.33	0.326	40.00	3.927	51.67	0.629	63.33	5.125	75.00	0.980	86.67	7.002
5.08	0.000	16.75	1.948	28.42	0.318	40.08	3.945	51.75	0.616	63.42	5.159	75.08	0.960	86.75	7.074
5.17	0.000	16.83	1.965	28.50	0.311	40.17	3.962	51.83	0.604	63.50	5.191	75.17	0.941	86.83	7.144
5.25	0.000	16.92	1.981	28.58	0.304	40.25	3.978	51.92	0.590	63.58	5.224	75.25	0.921	86.92	7.214
5.33	0.000	17.00	1.997	28.67	0.297	40.33	3.998	52.00	0.577	63.67	5.255	75.33	0.901	87.00	7.286
5.42	0.000	17.08	2.011	28.75	0.290	40.42	4.006	52.08	0.564	63.75	5.285	75.42	0.882	87.08	7.361
5.50	0.000	17.17	2.024	28.83	0.283	40.50	4.013	52.17	0.552	63.83	5.313	75.50	0.864	87.17	7.434
5.58	0.000	17.25	2.036	28.92	0.277	40.58	4.031	52.25	0.540	63.92	5.340	75.58	0.846	87.25	7.502
5.67	0.000	17.33	2.046	29.00	0.271	40.67	4.038	52.33	0.528	64.00	5.366	75.67	0.829	87.33	7.570
5.75	0.000	17.42	2.056	29.08	0.265	40.75	4.044	52.42	0.518	64.08	5.390	75.75	0.813	87.42	7.628
5.83	0.000	17.50	2.064	29.17	0.260	40.83	4.057	52.50	0.508	64.17	5.413	75.83	0.797	87.50	7.683
5.92	0.000	17.58	2.071	29.25	0.255	40.92	4.066	52.58	0.498	64.25	5.434	75.92	0.781	87.58	7.737
6.00	0.000	17.67	2.077	29.33	0.251	41.00	4.067	52.67	0.488	64.33	5.454	76.00	0.767	87.67	7.787
6.08	0.000	17.75	2.081	29.42	0.246	41.08	4.065	52.75	0.479	64.42	5.476	76.08	0.752	87.75	7.835
6.17	0.000	17.83	2.084	29.50	0.242	41.17	4.071	52.83	0.470	64.50	5.488	76.17	0.738	87.83	7.880
6.25	0.000	17.92	2.087	29.58	0.237	41.25	4.076	52.92	0.461	64.58	5.499	76.25	0.724	87.92	7.924
6.33	0.000	18.00	2.088	29.67	0.233	41.33	4.079	53.00	0.452	64.67	5.517	76.33	0.710	88.00	7.966
6.42	0.000	18.08	2.088	29.75	0.229	41.42	4.077	53.08	0.443	64.75	5.532	76.42	0.697	88.08	8.004
6.50	0.000	18.17	2.087	29.83	0.225	41.50	4.073	53.17	0.434	64.83	5.536	76.50	0.684	88.17	8.041
6.58	0.000	18.25	2.085	29.92	0.222	41.58	4.069	53.25	0.426	64.92	5.540	76.58	0.671	88.25	8.074
6.67	0.000	18.33	2.081	30.00	0.218	41.67	4.064	53.33	0.418	65.00	5.550	76.67	0.659	88.33	8.105
6.75	0.000	18.42	2.076	30.08	0.215	41.75	4.055	53.42	0.410	65.08	5.558	76.75	0.646	88.42	8.138
6.83	0.000	18.50	2.069	30.17	0.211	41.83	4.044	53.50	0.402	65.17	5.563	76.83	0.633	88.50	8.159
6.92	0.000	18.58	2.061	30.25	0.209	41.92	4.034	53.58	0.394	65.25	5.565	76.92	0.620	88.58	8.179
7.00	0.000	18.67	2.052	30.33	0.207	42.00	4.022	53.67	0.386	65.33	5.559	77.00	0.607	88.67	8.204
7.08	0.000	18.75	2.041	30.42	0.205	42.08	4.008	53.75	0.379	65.42	5.555	77.08	0.594	88.75	8.224
7.17	0.000	18.83	2.030	30.50	0.204	42.17	3.993	53.83	0.372	65.50	5.552	77.17	0.581	88.83	8.234
7.25	0.000	18.92	2.018	30.58	0.204	42.25	3.976	53.92	0.365	65.58	5.546	77.25	0.567	88.92	8.243
7.33	0.000	19.00	2.005	30.67	0.204	42.33	3.965	54.00	0.358	65.67	5.540	77.33	0.554	89.00	8.258
7.42	0.000	19.08	1.991	30.75	0.204	42.42	3.950	54.08	0.352	65.75	5.532	77.42	0.541	89.08	8.268
7.50	0.001	19.17	1.976	30.83	0.205	42.50	3.925	54.17	0.346	65.83	5.520	77.50	0.529	89.17	8.275
7.58	0.002	19.25	1.960	30.92	0.206	42.58	3.906	54.25	0.341	65.92	5.505	77.58	0.518	89.25	8.279
7.67	0.003	19.33	1.943	31.00	0.207	42.67	3.885	54.33	0.336	66.00	5.491	77.67	0.507	89.33	8.273
7.75	0.004	19.42	1.925	31.08	0.210	42.75	3.854	54.42	0.333	66.08	5.476	77.75	0.497	89.42	8.265
7.83	0.006	19.50	1.907	31.17	0.213	42.83	3.833	54.50	0.329	66.17	5.458	77.83	0.487	89.50	8.261
7.92	0.007	19.58	1.888	31.25	0.216	42.92	3.809	54.58	0.326	66.25	5.442	77.92	0.477	89.58	8.254
8.00	0.009	19.67	1.869	31.33	0.221	43.00	3.772	54.67	0.324	66.33	5.422	78.00	0.467	89.67	8.244
8.08	0.011	19.75	1.849	31.42	0.227	43.08	3.750	54.75	0.323	66.42	5.394	78.08	0.459	89.75	8.230
8.17	0.012	19.83	1.829	31.50	0.233	43.17	3.723	54.83	0.323	66.50	5.365	78.17	0.451	89.83	8.213
8.25	0.014	19.92	1.808	31.58	0.241	43.25	3.688	54.92	0.323	66.58	5.343	78.25	0.443	89.92	8.194
8.33	0.016	20.00	1.787	31.67	0.250	43.33	3.655	55.00	0.324	66.67	5.316	78.33	0.438	90.00	8.172
8.42	0.018	20.08	1.766	31.75	0.259	43.42	3.623	55.08	0.327	66.75	5.277	78.42	0.433	90.08	8.146
8.50	0.020	20.17	1.744	31.83	0.270	43.50	3.587	55.17	0.331	66.83	5.246	78.50	0.430	90.17	8.117
8.58	0.022	20.25	1.723	31.92	0.281	43.58	3.554	55.25	0.336	66.92	5.211	78.58	0.428	90.25	8.092
8.67	0.024	20.33	1.701	32.00	0.294	43.67	3.516	55.33	0.343	67.00	5.171	78.67	0.427	90.33	8.063
8.75	0.026	20.42	1.679	32.08	0.308	43.75	3.473	55.42	0.352	67.08	5.129	78.75	0.427	90.42	8.023
8.83	0.028	20.50	1.657	32.17	0.323	43.83	3.430	55.50	0.362	67.17	5.087	78.83	0.429	90.50	7.980
8.92	0.029	20.58	1.635	32.25	0.339	43.92	3.390	55.58	0.373	67.25	5.043	78.92	0.431	90.58	7.942
9.00	0.031	20.67	1.612	32.33	0.358	44.00	3.348	55.67	0.386	67.33	4.998	79.00	0.435	90.67	7.899
9.08	0.032	20.75	1.590	32.42	0.377	44.08	3.303	55.75	0.400	67.42	4.952	79.08	0.441	90.75	7.845
9.17	0.034	20.83	1.567	32.50	0.396	44.17	3.261	55.83	0.417	67.50	4.904	79.17	0.449	90.83	7.796
9.25	0.036	20.92	1.544	32.58	0.416	44.25	3.217	55.92	0.435	67.58	4.859	79.25	0.458	90.92	7.742
9.33	0.038	21.00	1.521	32.67	0.437	44.33	3.174	56.00	0.455	67.67	4.813	79.33	0.470	91.00	7.684
9.42	0.039	21.08	1.498	32.75	0.459	44.42	3.130	56.08	0.476	67.75	4.763	79.42	0.485	91.08	7.623
9.50	0.042	21.17	1.476	32.83	0.482	44.50	3.085	56.17	0.499	67.83	4.712	79.50	0.502	91.17	7.561
9.58	0.044	21.25	1.453	32.92	0.508	44.58	3.041	56.25	0.523	67.92	4.665	79.58	0.522	91.25	7.494
9.67	0.046	21.33	1.431	33.00	0.535	44.67	2.997	56.33	0.549	68.00	4.616	79.67	0.544	91.33	7.427
9.75	0.048	21.42	1.410	33.08	0.563	44.75	2.953	56.42	0.577	68.08	4.563	79.75	0.569	91.42	7.358
9.83	0.050	21.50	1.388	33.17	0.594	44.83	2.909	56.50	0.607	68.17	4.513	79.83	0.596	91.50	7.287
9.92	0.052	21.58	1.367	33.25	0.625	44.92	2.866	56.58	0.640	68.25	4.463	79.92	0.627	91.58	7.214
10.00	0.055	21.67	1.346	33.33	0.658	45.00	2.822	56.67	0.674	68.33	4.417	80.00	0.659	91.67	7.140
10.08	0.058	21.75	1.325	33.42	0.691	45.08	2.779	56.75	0.709	68.42	4.369	80.08	0.692	91.75	7.064
10.17	0.061	21.83	1.305	33.50	0.725	45.17	2.736	56.83	0.745	68.50	4.321	80.17	0.728	91.83	6.986
10.25	0.064	21.92	1.284	33.58	0.758	45.25	2.693	56.92	0.782	68.58	4.271	80.25	0.766	91.92	6.910
10.33	0.067	22.00	1.264	33.67	0.793	45.33	2.646	57.00	0.821	68.67	4.220	80.33	0.808	92.00	6.837
10.42	0.071	22.08	1.244	33.75	0.827	45.42	2.592	57.08	0.862	68.75	4.167	80.42	0.853	92.08	6.765
10.50	0.076	22.17	1.223	33.83	0.864	45.50	2.541	57.17	0.906	68.83	4.112	80.50	0.902	92.17	6.699
10.58	0.080	22.25	1.203	33.92	0.901	45.58	2.492	57.25	0.952	68.92	4.059	80.58	0.954	92.25	6.630
10.67	0.086	22.33	1.183	34.00	0.941	45.67	2.445	57.33	1.001	69.00	4.006	80.67	1.009	92.33	6.561
10.75	0.091	22.42	1.163	34.08	0.983	45.75	2.400	57.42	1.052	69.08	3.951	80.75	1.068	92.42	6.489
10.83	0.098	22.50	1.144	34.17	1.026	45.83	2.358	57.50	1.106	69.17	3.897	80.83	1.127	92.50	6.416
10.92	0.105	22.58	1.125	34.25	1.071	45.92	2.316	57.58	1.159	69.25	3.842	80.92	1.188	92.58	6.341
11.00	0.112	22.67	1.106	34.33	1.118	46.00	2.276	57.67	1.212	69.33	3.786	81.00	1.250	92.67	6.266
11.08	0.121	22.75	1.088	34.42	1.164	46.08	2.236	57.75	1.266	69.42	3.725	81.08	1.314	92.75	6.189
11.17	0.130	22.83	1.070	34.50	1.211	46.17	2.197	57.83	1.321	69.50	3.666	81.17	1.381	92.83	6.111
11.25	0.141	22.92	1.052	34.58	1.257	46.25	2.158	57.92	1.378	69.58	3.607	81.25	1.450	92.92	6.032
11.33	0.153	23.00	1.034	34.67	1.303	46.33	2.119	58.00	1.436	69.67	3.547	81.33	1.523	93.00	5.952
11.42	0.166	23.08	1.016	34.75	1.350	46.42	2.081	58.08	1.495	69.75	3.488	81.42	1.599	93.08	5.870
11.50	0.180	23.17	0.998	34.83	1.397	46.50	2.042	58.17	1.556	69.83	3.427	81.50	1.675	93.17	5.787
11.58	0.193	23.25	0.980	34.92	1.445	46.58	2.004	58.25	1.620	69.92	3.367	81.58	1.753	93.25	5.703

TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
93.33	5.620	105.00	2.348	116.67	11.971	128.33	1.394	140.00	8.346	151.67	0.736	163.33	6.206	175.00	0.483
93.42	5.537	105.08	2.472	116.75	11.812	128.42	1.445	140.08	8.255	151.75	0.751	163.42	6.152	175.08	0.482
93.50	5.455	105.17	2.600	116.83	11.651	128.50	1.499	140.17	8.162	151.83	0.768	163.50	6.095	175.17	0.482
93.58	5.373	105.25	2.736	116.92	11.489	128.58	1.554	140.25	8.068	151.92	0.787	163.58	6.036	175.25	0.484
93.67	5.291	105.33	2.875	117.00	11.325	128.67	1.613	140.33	7.973	152.00	0.808	163.67	5.977	175.33	0.487
93.75	5.209	105.42	3.009	117.08	11.171	128.75	1.675	140.42	7.877	152.08	0.832	163.75	5.917	175.42	0.491
93.83	5.128	105.50	3.138	117.17	11.000	128.83	1.741	140.50	7.778	152.17	0.858	163.83	5.855	175.50	0.498
93.92	5.052	105.58	3.271	117.25	10.835	128.92	1.808	140.58	7.678	152.25	0.886	163.92	5.792	175.58	0.505
94.00	4.975	105.67	3.411	117.33	10.672	129.00	1.878	140.67	7.580	152.33	0.917	164.00	5.728	175.67	0.514
94.08	4.904	105.75	3.551	117.42	10.510	129.08	1.951	140.75	7.486	152.42	0.950	164.08	5.662	175.75	0.525
94.17	4.826	105.83	3.682	117.50	10.350	129.17	2.027	140.83	7.396	152.50	0.986	164.17	5.595	175.83	0.536
94.25	4.751	105.92	3.814	117.58	10.194	129.25	2.106	140.92	7.305	152.58	1.024	164.25	5.528	175.92	0.550
94.33	4.676	106.00	3.949	117.67	10.041	129.33	2.186	141.00	7.214	152.67	1.064	164.33	5.460	176.00	0.565
94.42	4.601	106.08	4.084	117.75	9.892	129.42	2.267	141.08	7.127	152.75	1.105	164.42	5.392	176.08	0.581
94.50	4.527	106.17	4.224	117.83	9.746	129.50	2.351	141.17	7.033	152.83	1.148	164.50	5.324	176.17	0.599
94.58	4.447	106.25	4.364	117.92	9.600	129.58	2.438	141.25	6.939	152.92	1.192	164.58	5.255	176.25	0.619
94.67	4.370	106.33	4.506	118.00	9.458	129.67	2.529	141.33	6.847	153.00	1.240	164.67	5.186	176.33	0.641
94.75	4.292	106.42	4.651	118.08	9.316	129.75	2.624	141.42	6.756	153.08	1.290	164.75	5.117	176.42	0.664
94.83	4.220	106.50	4.795	118.17	9.181	129.83	2.723	141.50	6.663	153.17	1.342	164.83	5.049	176.50	0.688
94.92	4.153	106.58	4.940	118.25	9.053	129.92	2.820	141.58	6.574	153.25	1.398	164.92	4.981	176.58	0.713
95.00	4.085	106.67	5.089	118.33	8.929	130.00	2.916	141.67	6.488	153.33	1.456	165.00	4.917	176.67	0.740
95.08	4.017	106.75	5.253	118.42	8.805	130.08	3.013	141.75	6.400	153.42	1.516	165.08	4.852	176.75	0.768
95.17	3.949	106.83	5.427	118.50	8.680	130.17	3.106	141.83	6.311	153.50	1.579	165.17	4.784	176.83	0.799
95.25	3.881	106.92	5.598	118.58	8.555	130.25	3.196	141.92	6.219	153.58	1.643	165.25	4.716	176.92	0.831
95.33	3.814	107.00	5.768	118.67	8.430	130.33	3.291	142.00	6.124	153.67	1.707	165.33	4.647	177.00	0.866
95.42	3.746	107.08	5.936	118.75	8.306	130.42	3.390	142.08	6.029	153.75	1.774	165.42	4.584	177.08	0.901
95.50	3.680	107.17	6.105	118.83	8.183	130.50	3.492	142.17	5.934	153.83	1.842	165.50	4.516	177.17	0.939
95.58	3.613	107.25	6.275	118.92	8.061	130.58	3.587	142.25	5.839	153.92	1.911	165.58	4.447	177.25	0.978
95.67	3.547	107.33	6.446	119.00	7.940	130.67	3.677	142.33	5.743	154.00	1.980	165.67	4.382	177.33	1.020
95.75	3.482	107.42	6.617	119.08	7.819	130.75	3.771	142.42	5.647	154.08	2.051	165.75	4.326	177.42	1.062
95.83	3.417	107.50	6.788	119.17	7.699	130.83	3.864	142.50	5.552	154.17	2.124	165.83	4.267	177.50	1.106
95.92	3.353	107.58	6.959	119.25	7.580	130.92	3.956	142.58	5.458	154.25	2.197	165.92	4.207	177.58	1.149
96.00	3.285	107.67	7.135	119.33	7.461	131.00	4.050	142.67	5.365	154.33	2.271	166.00	4.145	177.67	1.192
96.08	3.213	107.75	7.311	119.42	7.342	131.08	4.145	142.75	5.278	154.42	2.344	166.08	4.080	177.75	1.237
96.17	3.133	107.83	7.487	119.50	7.224	131.17	4.242	142.83	5.190	154.50	2.419	166.17	4.016	177.83	1.282
96.25	3.055	107.92	7.672	119.58	7.107	131.25	4.339	142.92	5.101	154.58	2.495	166.25	3.952	177.92	1.330
96.33	2.977	108.00	7.868	119.67	6.987	131.33	4.438	143.00	5.016	154.67	2.574	166.33	3.888	178.00	1.378
96.42	2.903	108.08	8.064	119.75	6.866	131.42	4.538	143.08	4.931	154.75	2.655	166.42	3.824	178.08	1.429
96.50	2.835	108.17	8.257	119.83	6.745	131.50	4.639	143.17	4.841	154.83	2.739	166.50	3.760	178.17	1.481
96.58	2.771	108.25	8.448	119.92	6.627	131.58	4.741	143.25	4.755	154.92	2.822	166.58	3.696	178.25	1.535
96.67	2.710	108.33	8.638	120.00	6.512	131.67	4.842	143.33	4.668	155.00	2.897	166.67	3.633	178.33	1.590
96.75	2.652	108.42	8.829	120.08	6.399	131.75	4.943	143.42	4.582	155.08	2.967	166.75	3.570	178.42	1.646
96.83	2.595	108.50	9.022	120.17	6.285	131.83	5.053	143.50	4.497	155.17	3.039	166.83	3.506	178.50	1.702
96.92	2.541	108.58	9.213	120.25	6.174	131.92	5.168	143.58	4.413	155.25	3.113	166.92	3.443	178.58	1.759
97.00	2.488	108.67	9.402	120.33	6.076	132.00	5.279	143.67	4.329	155.33	3.189	167.00	3.380	178.67	1.817
97.08	2.437	108.75	9.590	120.42	5.977	132.08	5.391	143.75	4.245	155.42	3.267	167.08	3.312	178.75	1.876
97.17	2.385	108.83	9.776	120.50	5.876	132.17	5.504	143.83	4.163	155.50	3.347	167.17	3.241	178.83	1.935
97.25	2.332	108.92	9.961	120.58	5.773	132.25	5.616	143.92	4.088	155.58	3.428	167.25	3.173	178.92	1.994
97.33	2.281	109.00	10.144	120.67	5.670	132.33	5.727	144.00	4.017	155.67	3.510	167.33	3.105	179.00	2.054
97.42	2.230	109.08	10.324	120.75	5.565	132.42	5.838	144.08	3.946	155.75	3.586	167.42	3.039	179.08	2.113
97.50	2.181	109.17	10.501	120.83	5.461	132.50	5.948	144.17	3.874	155.83	3.656	167.50	2.970	179.17	2.173
97.58	2.134	109.25	10.676	120.92	5.356	132.58	6.057	144.25	3.802	155.92	3.726	167.58	2.902	179.25	2.233
97.67	2.089	109.33	10.847	121.00	5.251	132.67	6.166	144.33	3.732	156.00	3.793	167.67	2.833	179.33	2.293
97.75	2.046	109.42	11.016	121.08	5.147	132.75	6.274	144.42	3.660	156.08	3.860	167.75	2.769	179.42	2.352
97.83	2.004	109.50	11.184	121.17	5.043	132.83	6.380	144.50	3.590	156.17	3.928	167.83	2.708	179.50	2.412
97.92	1.962	109.58	11.352	121.25	4.940	132.92	6.486	144.58	3.520	156.25	3.997	167.92	2.651	179.58	2.471
98.00	1.921	109.67	11.521	121.33	4.838	133.00	6.592	144.67	3.451	156.33	4.066	168.00	2.595	179.67	2.532
98.08	1.880	109.75	11.688	121.42	4.737	133.08	6.696	144.75	3.377	156.42	4.135	168.08	2.542	179.75	2.595
98.17	1.838	109.83	11.853	121.50	4.637	133.17	6.800	144.83	3.301	156.50	4.205	168.17	2.490	179.83	2.658
98.25	1.795	109.92	12.014	121.58	4.540	133.25	6.902	144.92	3.226	156.58	4.274	168.25	2.438	179.92	2.720
98.33	1.752	110.00	12.172	121.67	4.441	133.33	7.007	145.00	3.149	156.67	4.344	168.33	2.386	180.00	2.778
98.42	1.709	110.08	12.327	121.75	4.345	133.42	7.112	145.08	3.070	156.75	4.414	168.42	2.334	180.08	2.835
98.50	1.668	110.17	12.476	121.83	4.249	133.50	7.218	145.17	2.996	156.83	4.484	168.50	2.283	180.17	2.891
98.58	1.628	110.25	12.622	121.92	4.154	133.58	7.322	145.25	2.925	156.92	4.555	168.58	2.234	180.25	2.945
98.67	1.590	110.33	12.764	122.00	4.056	133.67	7.431	145.33	2.854	157.00	4.625	168.67	2.187	180.33	2.999
98.75	1.553	110.42	12.904	122.08	3.954	133.75	7.545	145.42	2.788	157.08	4.695	168.75	2.143	180.42	3.053
98.83	1.517	110.50	13.041	122.17	3.860	133.83	7.656	145.50	2.725	157.17	4.764	168.83	2.099	180.50	3.109
98.92	1.482	110.58	13.176	122.25	3.776	133.92	7.767	145.58	2.665	157.25	4.832	168.92	2.057	180.58	3.165
99.00	1.449	110.67	13.309	122.33	3.695	134.00	7.876	145.67	2.608	157.33	4.899	169.00	2.016	180.67	3.221
99.08	1.417	110.75	13.440	122.42	3.615	134.08	7.981	145.75	2.552	157.42	4.971	169.08	1.975	180.75	3.276
99.17	1.386	110.83	13.569	122.50	3.537	134.17	8.084	145.83	2.498	157.50	5.045	169.17	1.934	180.83	3.332
99.25	1.356	110.92	13.696	122.58	3.461	134.25	8.183	145.92	2.446	157.58	5.115	169.25	1.894	180.92	3.388
99.33	1.327	111.00	13.821	122.67	3.386	134.33	8.279	146.00	2.394	157.67	5.183	169.33	1.853	181.00	3.441
99.42	1.297	111.08	13.955	122.75	3.314	134.42	8.373	146.08	2.340	157.75	5.250	169.42	1.811	181.08	3.497
99.50	1.269	111.17	14.068	122.83	3.244	134.50	8.464	146.17	2.287	157.83	5.317	169.50	1.769	181.17	3.552
99.58	1.242	111.25	14.178	122.92	3.176	134.58	8.553	146.25	2.234	157.92	5.383	169.58	1.727	181.25	3.599
99.67	1.216	111.33	14.289	123.00	3.109	134.67	8.640	146.33	2.183	158.00	5.449	169.67	1.688	181.33	3.644
99.75	1.191	111.42	14.391	123.08	3.036	134.75	8.725	146.42	2.134	158.08	5.514	169.75	1.649	181.42	3.689
99.83	1.168	111.50	14.489	123.17	2.960	134.83	8.808	146.50	2.087	158.17	5.578	169.83	1.612	181.50	3.729
99.92	1.144	111.58	14.583	123.25	2.888	134.92	8.895	146.58	2.042	158.25	5.641	169.92	1.576	181.58	3.771
100.00	1.122	111.67	14.675	123.33	2.817	135.00	8.971	146.67	1.999	158.33	5.702	170.00	1.541	181.67	3.813
100.08	1.100	111.75	14.763	123.42	2.747	135.08	9.044	146.75	1.956	158.42	5.761	170.08	1.507	181.75	3.853
100.17	1.078	111.83	14.851	123.50	2.681	135.17	9.119	146.83	1.914	158.50	5.818	170.17	1.475	181.83	3.895
100.25	1.056	111.92	14.936	123.58	2.617	135.25	9.190	146.92	1.871	158.58	5.874	170.25	1.443	181.92	3.938
100.33	1.034	112.00	15.020	123.67	2.557	135.33	9.257	147.00	1.829	158.67	5.930	170.33	1.413	182.00	3.978
100.42	1.012	112.08	15.100	123.75	2.498	135.42	9.322	147.08	1.785	158.75	5.984	170.42	1.383	182.08	4.020
100.50	0.991	112.17	15.174	123.83	2.441	135.50	9.384	147.17	1.741	158.83	6.043	170.50	1.354	182.17	4.062
100.58	0.970	112.25	15.241	123.92	2.386	135.58	9.442	147.25	1.697	158.92	6.091	170.58	1.325	182.25	4.101
100.67	0.950	112.33	15.307	124.00	2.331	135.67	9.498	147.33	1.655	159.00	6.138	170.67	1.297	182.33	4.142
100.75	0.930	112.42	15.368	124.08	2.274	135.75	9.553	147.42	1.613	159.08	6.187	170.75	1.270	182.42	4.181
100.83	0.909	112.50	15.425	124.17	2.218	135.83	9.605	147.50	1.574	159.17	6.234	170.83	1.244	182.50	4.219
100.92	0.889	112.58	15.477	124.25	2.164	135.92	9.654	147.58	1.535	159.25	6.280	170.92	1.219	182.58	4.264
101.00	0.870	112.67	15.539	124.33	2.111	136.00	9.701	147.67	1.499	159.33	6.324	171.00	1.195	182.67	4.297
101.08	0.851	112.75	15.572	124.42	2.061	136.08	9.745	147.75	1.463	159.42	6.368	171.08	1.172	182.75	4.330
101.17	0.833	112.83	15.601	124.50	2.013	136.17	9.785	147.83	1.429	159.50	6.412	171.17	1.149	182.83	4.367
101.25	0.815	112.92	15.648	124.58	1.966	136.25	9.822	147.92	1.396	159.58	6.451	171.25	1.127	182.92	4.403
101.33	0.798	113.00	15.684	124.67	1.921	136.33	9.863	148.00	1.365	159.67	6.489	171.33	1.106	183.00	4.437
101.42	0.782	113.08	15.695	124.75	1.876	136.42	9.887	148.08	1.334	159.75	6.529	171.42	1.084	183.08	4.469
101.50	0.767	113.17	15.703	124.83	1.832	136.50	9.908	148.17	1.304	159.83	6.566	171.50	1.063	183.17	4.501
101.58	0.752	113.25	15.723	124.92	1.786	136.58	9.938	148.25	1.274	159.92	6.601	171.58	1.041	183.25	4.533
101.67	0.737	113.33	15.734	125.00	1.740	136.67	9.962	148.33	1.246	160.00	6.634	171.67	1.020	183.33	4.563
101.75	0.723	113.42	15.740	125.08	1.694	136.75	9.973	148.42	1.219	160.08	6.666	171.75	0.999	183.42	4.591
101.83	0.709	113.50	15.736	125.17	1.648	136.83	9.980	148.50	1.193	160.17	6.695	171.83	0.978	183.50	4.619
101.92	0.695	113.58	15.722	125.25	1.604	136.92	9.996	148.58	1.168	160.25	6.724	171.92	0.958	183.58	4.645
102.00	0.682	113.67	15.703	125.33	1.561	137.00	10.008	148.67	1.145	160.33	6.750	172.00	0.938	183.67	4.671
102.08	0.670	113.75	15.680	125.42	1.520	137.08	10.015	148.75	1.121	160.42	6.783	172.08	0.918	183.75	4.695
102.17	0.659	113.83	15.652	125.50	1.480	137.17	10.018	148.83	1.099	160.50	6.798	172.17	0.898	183.83	4.718
102.25	0.649	113.92	15.619	125.58	1.443	137.25	10.019	148.92	1.076	160.58	6.814	172.25	0.879	183.92	4.740
102.33	0.641	114.00	15.580	125.67	1.407	137.33	10.015	149.00	1.054	160.67	6.840	172.33	0.860	184.00	4.763
102.42	0.635	114.08	15.536	125.75	1.372	137.42	10.005	149.08	1.032	160.75	6.861	172.42	0.842	184.08	4.783
102.50	0.632	114.17	15.485	125.83	1.339	137.50	9.993	149.17	1.009	160.83	6.867	172.50	0.824	184.17	4.805
102.58	0.631	114.25	15.429	125.92	1.307	137.58	9.978	149.25	0.988	160.92	6.872	172.58	0.808	184.25	4.824
102.67	0.632	114.33	15.366	126.00	1.274	137.67	9.961	149.33	0.966	161.00	6.888	172.67	0.791	184.33	4.846
102.75	0.636	114.42	15.296	126.08	1.244	137.75	9.940	149.42	0.945	161.08	6.899	172.75	0.776	184.42	4.857
102.83	0.642	114.50	15.221	126.17	1.216	137.83	9.916	149.50	0.925	161.17	6.907	172.83	0.761	184.50	4.867
102.92	0.651	114.58	15.161	126.25	1.191	137.92	9.890	149.58	0.905	161.25	6.911	172.92	0.746	184.58	4.883
103.00	0.663	114.67	15.089	126.33	1.168	138.00	9.861	149.67	0.884	161.33	6.903	173.00	0.732	184.67	4.896
103.08	0.678	114.75	14.984	126.42	1.147	138.08	9.830	149.75	0.865	161.42	6.894	173.08	0.718	184.75	4.900
103.17	0.698	114.83	14.894	126.50	1.130	138.17	9.796	149.83	0.845	161.50	6.892	173.17	0.704	184.83	4.903
103.25	0.721	114.92	14.796	126.58	1.114	138.25	9.757	149.92	0.827	161.58	6.886	173.25	0.691	184.92	4.912
103.33	0.750	115.00	14.691	126.67	1.100	138.33	9.716	150.00	0.810	161.67	6.878	173.33	0.678	185.00	4.919
103.42	0.784	115.08	14.584	126.75	1.087	138.42	9.672	150.08	0.793	161.75	6.866	173.42	0.665	185.08	4.925
103.50	0.823	115.17	14.475	126.83	1.077	138.50	9.635	150.17	0.778	161.83	6.851	173.50	0.652	185.17	4.925
103.58	0.868	115.25	14.361	126.92	1.068	138.58	9.593	150.25	0.764	161.92	6.834	173.58	0.639	185.25	4.919
103.67	0.918	115.33	14.247	127.00	1.062	138.67	9.536	150.33	0.751	162.00	6.814	173.67	0.626	185.33	4.915
103.75	0.973	115.42	14.125	127.08	1.057	138.75	9.485	150.42	0.739	162.08	6.791	173.75	0.613	185.42	4.915
103.83	1.032	115.50	14.001	127.17	1.056	138.83	9.429	150.50	0.729	162.17	6.775	173.83	0.600	185.50	4.909
103.92	1.094	115.58	13.875	127.25	1.058	138.92	9.362	150.58	0.721	162.25	6.754	173.92	0.587	185.58	4.901
104.00	1.158	115.67	13.745	127.33	1.063	139.00	9.305	150.67	0.713	162.33	6.719	174.00	0.573	185.67	4.894
104.08	1.228	115.75	13.610	127.42	1.072	139.08	9.242	150.75	0.707	162.42	6.684	174.08	0.559	185.75	4.885
104.17	1.304	115.83	13.474	127.50	1.084	139.17	9.172	150.83	0.701	162.50	6.656	174.17	0.546	185.83	4.871
104.25	1.387	115.92	13.334	127.58	1.100	139.25	9.099	150.92	0.697	162.58	6.624	174.25	0.535	185.92	4.857
104.33	1.476	116.00	13.192	127.67	1.120	139.33	9.024	151.00	0.695	162.67	6.578	174.33	0.524	186.00	4.843
104.42	1.570	116.08	13.047	127.75	1.142	139.42	8.946	151.08	0.693	162.75	6.542	174.42	0.515	186.08	4.827
104.50	1.667	116.17	12.900	127.83	1.168	139.50	8.867	151.17	0.693	162.83	6.501	174.50	0.508	186.17	4.815
104.58	1.770	116.25	12.750	127.92	1.197	139.58	8.784	151.25	0.695	162.92	6.445	174.58	0.501	186.25	4.798
104.67	1.877	116.33	12.599	128.00	1.229	139.67	8.700	151.33	0.699	163.00	6.405	174.67	0.496	186.33	4.770
104.75	1.990	116.42	12.445	128.08	1.264	139.75	8.615	151.42	0.705	163.08	6.363	174.75	0.491	186.42	4.742
104.83	2.107	116.50	12.289	128.17	1.304	139.83	8.527	151.50	0.713	163.17	6.311	174.83	0.488	186.50	4.721
104.92	2.227	116.58	12.130	128.25	1.347	139.92	8.437	151.58	0.724	163.25	6.258	174.92	0.485	186.58	4.696

TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
186.67	4.662	198.33	0.387	210.00	3.663	221.67	0.352	233.33	4.472	245.00	0.483	256.67	0.026	268.33	0.001
186.75	4.635	198.42	0.381	210.08	3.649	221.75	0.346	233.42	4.468	245.08	0.474	256.75	0.025	268.42	0.000
186.83	4.604	198.50	0.376	210.17	3.640	221.83	0.339	233.50	4.463	245.17	0.464	256.83	0.024	268.50	0.000
186.92	4.570	198.58	0.372	210.25	3.628	221.92	0.333	233.58	4.458	245.25	0.456	256.92	0.024	268.58	0.000
187.00	4.536	198.67	0.368	210.33	3.606	222.00	0.327	233.67	4.449	245.33	0.447	257.00	0.023	268.67	0.000
187.08	4.507	198.75	0.365	210.42	3.584	222.08	0.320	233.75	4.438	245.42	0.438	257.08	0.023	268.75	0.000
187.17	4.474	198.83	0.362	210.50	3.569	222.17	0.313	233.83	4.426	245.50	0.429	257.17	0.022	268.83	0.000
187.25	4.437	198.92	0.360	210.58	3.551	222.25	0.306	233.92	4.413	245.58	0.421	257.25	0.021	268.92	0.000
187.33	4.397	199.00	0.359	210.67	3.522	222.33	0.301	234.00	4.399	245.67	0.413	257.33	0.021	269.00	0.000
187.42	4.361	199.08	0.358	210.75	3.501	222.42	0.295	234.08	4.384	245.75	0.405	257.42	0.020	269.08	0.000
187.50	4.324	199.17	0.358	210.83	3.473	222.50	0.291	234.17	4.364	245.83	0.397	257.50	0.020	269.17	0.000
187.58	4.281	199.25	0.359	210.92	3.441	222.58	0.287	234.25	4.351	245.92	0.389	257.58	0.019	269.25	0.000
187.67	4.240	199.33	0.361	211.00	3.412	222.67	0.285	234.33	4.335	246.00	0.382	257.67	0.019	269.33	0.000
187.75	4.198	199.42	0.364	211.08	3.381	222.75	0.284	234.42	4.308	246.08	0.375	257.75	0.018	269.42	0.000
187.83	4.154	199.50	0.368	211.17	3.348	222.83	0.283	234.50	4.288	246.17	0.367	257.83	0.018	269.50	0.000
187.92	4.110	199.58	0.373	211.25	3.317	222.92	0.284	234.58	4.266	246.25	0.361	257.92	0.017	269.58	0.000
188.00	4.065	199.67	0.380	211.33	3.286	223.00	0.285	234.67	4.233	246.33	0.354	258.00	0.017	269.67	0.000
188.08	4.020	199.75	0.387	211.42	3.251	223.08	0.287	234.75	4.211	246.42	0.347	258.08	0.016	269.75	0.000
188.17	3.973	199.83	0.395	211.50	3.218	223.17	0.290	234.83	4.188	246.50	0.341	258.17	0.016	269.83	0.000
188.25	3.926	199.92	0.404	211.58	3.186	223.25	0.295	234.92	4.150	246.58	0.335	258.25	0.015	269.92	0.000
188.33	3.879	200.00	0.414	211.67	3.151	223.33	0.300	235.00	4.124	246.67	0.328	258.33	0.015	270.00	0.000
188.42	3.831	200.08	0.426	211.75	3.112	223.42	0.307	235.08	4.095	246.75	0.321	258.42	0.015	270.08	0.000
188.50	3.780	200.17	0.438	211.83	3.074	223.50	0.316	235.17	4.058	246.83	0.314	258.50	0.014	270.17	0.000
188.58	3.731	200.25	0.452	211.92	3.036	223.58	0.326	235.25	4.024	246.92	0.306	258.58	0.014	270.25	0.000
188.67	3.682	200.33	0.466	212.00	2.997	223.67	0.338	235.33	3.992	247.00	0.299	258.67	0.014	270.33	0.000
188.75	3.632	200.42	0.483	212.08	2.960	223.75	0.350	235.42	3.954	247.08	0.291	258.75	0.013	270.42	0.000
188.83	3.580	200.50	0.500	212.17	2.922	223.83	0.363	235.50	3.917	247.17	0.283	258.83	0.013	270.50	0.000
188.92	3.528	200.58	0.519	212.25	2.881	223.92	0.376	235.58	3.878	247.25	0.276	258.92	0.012	270.58	0.000
189.00	3.472	200.67	0.540	212.33	2.841	224.00	0.390	235.67	3.839	247.33	0.270	259.00	0.012	270.67	0.000
189.08	3.414	200.75	0.561	212.42	2.802	224.08	0.406	235.75	3.798	247.42	0.264	259.08	0.012	270.75	0.000
189.17	3.353	200.83	0.584	212.50	2.762	224.17	0.423	235.83	3.758	247.50	0.258	259.17	0.011	270.83	0.000
189.25	3.295	200.92	0.608	212.58	2.722	224.25	0.442	235.92	3.716	247.58	0.253	259.25	0.011	270.92	0.000
189.33	3.240	201.00	0.633	212.67	2.678	224.33	0.463	236.00	3.674	247.67	0.248	259.33	0.011	271.00	0.000
189.42	3.181	201.08	0.660	212.75	2.632	224.42	0.486	236.08	3.631	247.75	0.243	259.42	0.011	271.08	0.000
189.50	3.129	201.17	0.687	212.83	2.587	224.50	0.510	236.17	3.586	247.83	0.239	259.50	0.010	271.17	0.000
189.58	3.073	201.25	0.715	212.92	2.540	224.58	0.536	236.25	3.545	247.92	0.234	259.58	0.010	271.25	0.000
189.67	3.020	201.33	0.744	213.00	2.495	224.67	0.562	236.33	3.499	248.00	0.230	259.67	0.010	271.33	0.000
189.75	2.967	201.42	0.773	213.08	2.452	224.75	0.590	236.42	3.447	248.08	0.226	259.75	0.009	271.42	0.000
189.83	2.916	201.50	0.804	213.17	2.411	224.83	0.619	236.50	3.395	248.17	0.222	259.83	0.009	271.50	0.000
189.92	2.866	201.58	0.837	213.25	2.371	224.92	0.650	236.58	3.345	248.25	0.218	259.92	0.009	271.58	0.000
190.00	2.816	201.67	0.871	213.33	2.332	225.00	0.682	236.67	3.290	248.33	0.214	260.00	0.009	271.67	0.000
190.08	2.764	201.75	0.906	213.42	2.293	225.08	0.714	236.75	3.237	248.42	0.210	260.08	0.008	271.75	0.000
190.17	2.711	201.83	0.943	213.50	2.255	225.17	0.747	236.83	3.186	248.50	0.207	260.17	0.008	271.83	0.000
190.25	2.656	201.92	0.981	213.58	2.216	225.25	0.782	236.92	3.135	248.58	0.203	260.25	0.008	271.92	0.000
190.33	2.604	202.00	1.021	213.67	2.178	225.33	0.818	237.00	3.086	248.67	0.199	260.33	0.008	272.00	0.000
190.42	2.553	202.08	1.061	213.75	2.140	225.42	0.855	237.08	3.037	248.75	0.196	260.42	0.008	272.08	0.000
190.50	2.501	202.17	1.102	213.83	2.103	225.50	0.895	237.17	2.989	248.83	0.193	260.50	0.007	272.17	0.000
190.58	2.450	202.25	1.143	213.92	2.065	225.58	0.937	237.25	2.941	248.92	0.189	260.58	0.007	272.25	0.000
190.67	2.401	202.33	1.182	214.00	2.029	225.67	0.981	237.33	2.894	249.00	0.186	260.67	0.007	272.33	0.000
190.75	2.353	202.42	1.222	214.08	1.992	225.75	1.027	237.42	2.851	249.08	0.183	260.75	0.007	272.42	0.000
190.83	2.307	202.50	1.262	214.17	1.955	225.83	1.075	237.50	2.803	249.17	0.180	260.83	0.007	272.50	0.000
190.92	2.263	202.58	1.303	214.25	1.919	225.92	1.124	237.58	2.755	249.25	0.177	260.92	0.006	272.58	0.000
191.00	2.221	202.67	1.345	214.33	1.883	226.00	1.172	237.67	2.706	249.33	0.173	261.00	0.006	272.67	0.000
191.08	2.179	202.75	1.388	214.42	1.849	226.08	1.219	237.75	2.654	249.42	0.170	261.08	0.006	272.75	0.000
191.17	2.139	202.83	1.432	214.50	1.815	226.17	1.267	237.83	2.602	249.50	0.167	261.17	0.006	272.83	0.000
191.25	2.100	202.92	1.477	214.58	1.783	226.25	1.316	237.92	2.551	249.58	0.164	261.25	0.006	272.92	0.000
191.33	2.061	203.00	1.522	214.67	1.751	226.33	1.365	238.00	2.500	249.67	0.162	261.33	0.006	273.00	0.000
191.42	2.021	203.08	1.569	214.75	1.719	226.42	1.416	238.08	2.451	249.75	0.159	261.42	0.005	273.08	0.000
191.50	1.982	203.17	1.616	214.83	1.688	226.50	1.468	238.17	2.403	249.83	0.156	261.50	0.005	273.17	0.000
191.58	1.943	203.25	1.663	214.92	1.657	226.58	1.521	238.25	2.358	249.92	0.153	261.58	0.005	273.25	0.000
191.67	1.903	203.33	1.710	215.00	1.626	226.67	1.576	238.33	2.314	250.00	0.150	261.67	0.005	273.33	0.000
191.75	1.863	203.42	1.757	215.08	1.597	226.75	1.632	238.42	2.272	250.08	0.148	261.75	0.005	273.42	0.000
191.83	1.824	203.50	1.805	215.17	1.567	226.83	1.688	238.50	2.231	250.17	0.145	261.83	0.005	273.50	0.000
191.92	1.785	203.58	1.853	215.25	1.539	226.92	1.743	238.58	2.191	250.25	0.142	261.92	0.005	273.58	0.000
192.00	1.748	203.67	1.902	215.33	1.511	227.00	1.800	238.67	2.152	250.33	0.140	262.00	0.004	273.67	0.000
192.08	1.713	203.75	1.950	215.42	1.484	227.08	1.856	238.75	2.113	250.42	0.137	262.08	0.004	273.75	0.000
192.17	1.678	203.83	1.998	215.50	1.457	227.17	1.914	238.83	2.074	250.50	0.134	262.17	0.004	273.83	0.000
192.25	1.644	203.92	2.045	215.58	1.431	227.25	1.971	238.92	2.035	250.58	0.131	262.25	0.004	273.92	0.000
192.33	1.611	204.00	2.092	215.67	1.405	227.33	2.029	239.00	1.997	250.67	0.127	262.33	0.004	274.00	0.000
192.42	1.578	204.08	2.139	215.75	1.378	227.42	2.086	239.08	1.958	250.75	0.124	262.42	0.004	274.08	0.000
192.50	1.547	204.17	2.186	215.83	1.353	227.50	2.143	239.17	1.919	250.83	0.121	262.50	0.004	274.17	0.000
192.58	1.516	204.25	2.233	215.92	1.328	227.58	2.201	239.25	1.880	250.92	0.117	262.58	0.004	274.25	0.000
192.67	1.486	204.33	2.279	216.00	1.304	227.67	2.259	239.33	1.841	251.00	0.114	262.67	0.004	274.33	0.000
192.75	1.457	204.42	2.325	216.08	1.280	227.75	2.315	239.42	1.804	251.08	0.111	262.75	0.003	274.42	0.000
192.83	1.429	204.50	2.369	216.17	1.258	227.83	2.371	239.50	1.768	251.17	0.108	262.83	0.003	274.50	0.000
192.92	1.402	204.58	2.413	216.25	1.236	227.92	2.427	239.58	1.733	251.25	0.105	262.92	0.003	274.58	0.000
193.00	1.374	204.67	2.457	216.33	1.214	228.00	2.483	239.67	1.699	251.33	0.103	263.00	0.003	274.67	0.000
193.08	1.347	204.75	2.503	216.42	1.193	228.08	2.540	239.75	1.666	251.42	0.101	263.08	0.003	274.75	0.000
193.17	1.320	204.83	2.548	216.50	1.172	228.17	2.598	239.83	1.634	251.50	0.099	263.17	0.003	274.83	0.000
193.25	1.294	204.92	2.594	216.58	1.151	228.25	2.655	239.92	1.602	251.58	0.097	263.25	0.003	274.92	0.000
193.33	1.270	205.00	2.640	216.67	1.131	228.33	2.709	240.00	1.571	251.67	0.095	263.33	0.003	275.00	0.000
193.42	1.246	205.08	2.683	216.75	1.110	228.42	2.761	240.08	1.541	251.75	0.093	263.42	0.003	275.08	0.000
193.50	1.222	205.17	2.722	216.83	1.090	228.50	2.814	240.17	1.511	251.83	0.091	263.50	0.003	275.17	0.000
193.58	1.200	205.25	2.762	216.92	1.069	228.58	2.867	240.25	1.482	251.92	0.090	263.58	0.003	275.25	0.000
193.67	1.178	205.33	2.801	217.00	1.049	228.67	2.917	240.33	1.454	252.00	0.088	263.67	0.003	275.33	0.000
193.75	1.157	205.42	2.841	217.08	1.029	228.75	2.966	240.42	1.427	252.08	0.086	263.75	0.002	275.42	0.000
193.83	1.136	205.50	2.879	217.17	1.009	228.83	3.015	240.50	1.400	252.17	0.085	263.83	0.002	275.50	0.000
193.92	1.115	205.58	2.915	217.25	0.990	228.92	3.064	240.58	1.373	252.25	0.083	263.92	0.002	275.58	0.000
194.00	1.094	205.67	2.950	217.33	0.971	229.00	3.114	240.67	1.346	252.33	0.082	264.00	0.002	275.67	0.000
194.08	1.073	205.75	2.986	217.42	0.952	229.08	3.162	240.75	1.320	252.42	0.080	264.08	0.002	275.75	0.000
194.17	1.052	205.83	3.020	217.50	0.933	229.17	3.212	240.83	1.295	252.50	0.079	264.17	0.002	275.83	0.000
194.25	1.031	205.92	3.055	217.58	0.915	229.25	3.261	240.92	1.271	252.58	0.078	264.25	0.002	275.92	0.000
194.33	1.011	206.00	3.089	217.67	0.896	229.33	3.308	241.00	1.247	252.67	0.076	264.33	0.002	276.00	0.000
194.42	0.991	206.08	3.123	217.75	0.879	229.42	3.357	241.08	1.225	252.75	0.076	264.42	0.002	276.08	0.000
194.50	0.971	206.17	3.157	217.83	0.862	229.50	3.405	241.17	1.202	252.83	0.075	264.50	0.002	276.17	0.000
194.58	0.952	206.25	3.191	217.92	0.845	229.58	3.451	241.25	1.181	252.92	0.073	264.58	0.002	276.25	0.000
194.67	0.932	206.33	3.223	218.00	0.829	229.67	3.498	241.33	1.159	253.00	0.071	264.67	0.002	276.33	0.000
194.75	0.913	206.42	3.255	218.08	0.814	229.75	3.544	241.42	1.139	253.08	0.070	264.75	0.002	276.42	0.000
194.83	0.894	206.50	3.287	218.17	0.799	229.83	3.585	241.50	1.118	253.17	0.068	264.83	0.002	276.50	0.000
194.92	0.875	206.58	3.318	218.25	0.784	229.92	3.622	241.58	1.097	253.25	0.067	264.92	0.002	276.58	0.000
195.00	0.857	206.67	3.347	218.33	0.770	230.00	3.658	241.67	1.076	253.33	0.066	265.00	0.002	276.67	0.000
195.08	0.840	206.75	3.379	218.42	0.756	230.08	3.691	241.75	1.056	253.42	0.064	265.08	0.002	276.75	0.000
195.17	0.824	206.83	3.404	218.50	0.742	230.17	3.729	241.83	1.035	253.50	0.063	265.17	0.002	276.83	0.000
195.25	0.808	206.92	3.429	218.58	0.728	230.25	3.758	241.92	1.015	253.58	0.062	265.25	0.001	276.92	0.000
195.33	0.792	207.00	3.453	218.67	0.715	230.33	3.789	242.00	0.995	253.67	0.061	265.33	0.001	277.00	0.000
195.42	0.777	207.08	3.476	218.75	0.702	230.42	3.823	242.08	0.976	253.75	0.059	265.42	0.001	277.08	0.000
195.50	0.763	207.17	3.498	218.83	0.690	230.50	3.857	242.17	0.957	253.83	0.058	265.50	0.001	277.17	0.000
195.58	0.749	207.25	3.518	218.92	0.677	230.58	3.889	242.25	0.937	253.92	0.057	265.58	0.001	277.25	0.000
195.67	0.735	207.33	3.538	219.00	0.665	230.67	3.921	242.33	0.918	254.00	0.056	265.67	0.001	277.33	0.000
195.75	0.721	207.42	3.556	219.08	0.652	230.75	3.953	242.42	0.899	254.08	0.055	265.75	0.001	277.42	0.000
195.83	0.708	207.50	3.573	219.17	0.640	230.83	3.984	242.50	0.881	254.17	0.053	265.83	0.001	277.50	0.000
195.92	0.695	207.58	3.588	219.25	0.627	230.92	4.015	242.58	0.863	254.25	0.052	265.92	0.001	277.58	0.000
196.00	0.682	207.67	3.605	219.33	0.614	231.00	4.045	242.67	0.846	254.33	0.051	266.00	0.001	277.67	0.000
196.08	0.669	207.75	3.616	219.42	0.602	231.08	4.075	242.75	0.829	254.42	0.050	266.08	0.001	277.75	0.000
196.17	0.656	207.83	3.628	219.50	0.588	231.17	4.104	242.83	0.813	254.50	0.049	266.17	0.001	277.83	0.000
196.25	0.644	207.92	3.646	219.58	0.575	231.25	4.132	242.92	0.798	254.58	0.048	266.25	0.001	277.92	0.000
196.33	0.631	208.00	3.654	219.67	0.563	231.33	4.158	243.00	0.783	254.67	0.047	266.33	0.001	278.00	0.000
196.42	0.618	208.08	3.664	219.75	0.551	231.42	4.184	243.08	0.768	254.75	0.045	266.42	0.001	278.08	0.000
196.50	0.605	208.17	3.681	219.83	0.539	231.50	4.209	243.17	0.754	254.83	0.044	266.50	0.001	278.17	0.000
196.58	0.592	208.25	3.689	219.92	0.528	231.58	4.233	243.25	0.740	254.92	0.043	266.58	0.001	278.25	0.000
196.67	0.579	208.33	3.697	220.00	0.517	231.67	4.256	243.33	0.727	255.00	0.042	266.67	0.001	278.33	0.000
196.75	0.565	208.42	3.711	220.08	0.507	231.75	4.278	243.42	0.713	255.08	0.041	266.75	0.001	278.42	0.000
196.83	0.552	208.50	3.716	220.17	0.498	231.83	4.298	243.50	0.700	255.17	0.040	266.83	0.001	278.50	0.000
196.92	0.540	208.58	3.721	220.25	0.488	231.92	4.318	243.58	0.687	255.25	0.039	266.92	0.001	278.58	0.000
197.00	0.528	208.67	3.732	220.33	0.479	232.00	4.337	243.67	0.675	255.33	0.038	267.00	0.001	278.67	0.000
197.08	0.517	208.75	3.738	220.42	0.470	232.08	4.354	243.75	0.662	255.42	0.038	267.08	0.001	278.75	0.000
197.17	0.507	208.83	3.736	220.50	0.461	232.17	4.371	243.83	0.649	255.50	0.037	267.17	0.001	278.83	0.000
197.25	0.497	208.92	3.737	220.58	0.452	232.25	4.393	243.92	0.637	255.58	0.036	267.25	0.001	278.92	0.000
197.33	0.487	209.00	3.743	220.67	0.443	232.33	4.401	244.00	0.624	255.67	0.035	267.33	0.001	279.00	0.000
197.42	0.477	209.08	3.745	220.75	0.435	232.42	4.408	244.08	0.611	255.75	0.034	267.42	0.001	279.08	0.000
197.50	0.468	209.17	3.744	220.83	0.426	232.50	4.427	244.17	0.598	255.83	0.033	267.50	0.001	279.17	0.000
197.58	0.459	209.25	3.743	220.92	0.418	232.58	4.434	244.25	0.585	255.92	0.032	267.58	0.001	279.25	0.000
197.67	0.450	209.33	3.740	221.00	0.410	232.67	4.440	244.33	0.572	256.00	0.032	267.67	0.001	279.33	0.000
197.75	0.441	209.42	3.735	221.08	0.402	232.75	4.453	244.42	0.559	256.08	0.031	267.75	0.001	279.42	0.000
197.83	0.432	209.50	3.727	221.17	0.395	232.83	4.463	244.50	0.546	256.17	0.030	267.83	0.001	279.50	0.000
197.92	0.424	209.58	3.718	221.25	0.387	232.92	4.463	244.58	0.534	256.25	0.029	267.92	0.001	279.58	0.000
198.00	0.416	209.67	3.709	221.33	0.380	233.00	4.460	244.67	0.523	256.33	0.029	268.00	0.001	279.67	0.000
198.08	0.408	209.75	3.699	221.42	0.372	233.08	4.466	244.75	0.513	256.42	0.028	268.08	0.001	279.75	0.000
198.17	0.400	209.83	3.688	221.50	0.365	233.17	4.471	244.83	0.502	256.50	0.027	268.17	0.001	279.83	0.000
198.25	0.393	209.92	3.676	221.58	0.359	233.25	4.474	244.92	0.493	256.58	0.026	268.25	0.001	279.92	0.000

ARBUCK (VG SPRING)



Hydrograph Statistics:

Legend	Filename & Comment	Time Step (min)	Drainage Area (ha)	Peak Flow (cms)	Time to Peak (hrs)	Runoff Volume (mm)	Runoff Volume (cu.m)	Duration of flow (hrs)	Average flow (cms)
——■——	H-ARBUCK.100: arbuck	5.00	890.10	12.204	113.417	247.25	2.201E+06	272.833	2.241

Hydrograph Table:

Hydrograph Filename : Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSPRI~1\H-ARBUCK.100
Comment in file : arbuck

TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
0.00	0.000	11.67	0.148	23.33	0.808	35.00	1.120	46.67	1.662	58.33	1.273	70.00	2.631	81.67	1.408
0.08	0.000	11.75	0.157	23.42	0.796	35.08	1.156	46.75	1.634	58.42	1.320	70.08	2.593	81.75	1.469
0.17	0.000	11.83	0.168	23.50	0.784	35.17	1.193	46.83	1.607	58.50	1.368	70.17	2.555	81.83	1.529
0.25	0.000	11.92	0.179	23.58	0.772	35.25	1.231	46.92	1.580	58.58	1.417	70.25	2.518	81.92	1.590
0.33	0.000	12.00	0.190	23.67	0.761	35.33	1.270	47.00	1.554	58.67	1.465	70.33	2.481	82.00	1.652
0.42	0.000	12.08	0.202	23.75	0.749	35.42	1.309	47.08	1.528	58.75	1.513	70.42	2.445	82.08	1.714
0.50	0.000	12.17	0.215	23.83	0.738	35.50	1.350	47.17	1.502	58.83	1.561	70.50	2.408	82.17	1.778
0.58	0.000	12.25	0.228	23.92	0.726	35.58	1.390	47.25	1.476	58.92	1.609	70.58	2.371	82.25	1.844
0.67	0.000	12.33	0.241	24.00	0.715	35.67	1.430	47.33	1.450	59.00	1.657	70.67	2.335	82.33	1.912
0.75	0.000	12.42	0.256	24.08	0.704	35.75	1.467	47.42	1.425	59.08	1.706	70.75	2.298	82.42	1.982
0.83	0.000	12.50	0.271	24.17	0.694	35.83	1.505	47.50	1.400	59.17	1.756	70.83	2.263	82.50	2.054
0.92	0.000	12.58	0.286	24.25	0.683	35.92	1.542	47.58	1.375	59.25	1.807	70.92	2.227	82.58	2.128
1.00	0.000	12.67	0.303	24.33	0.672	36.00	1.578	47.67	1.351	59.33	1.860	71.00	2.192	82.67	2.202
1.08	0.000	12.75	0.320	24.42	0.662	36.08	1.614	47.75	1.328	59.42	1.913	71.08	2.157	82.75	2.275
1.17	0.000	12.83	0.338	24.50	0.652	36.17	1.652	47.83	1.305	59.50	1.966	71.17	2.122	82.83	2.350
1.25	0.000	12.92	0.358	24.58	0.642	36.25	1.690	47.92	1.282	59.58	2.021	71.25	2.085	82.92	2.423
1.33	0.000	13.00	0.378	24.67	0.632	36.33	1.729	48.00	1.260	59.67	2.075	71.33	2.049	83.00	2.498
1.42	0.000	13.08	0.399	24.75	0.622	36.42	1.768	48.08	1.239	59.75	2.129	71.42	2.014	83.08	2.573
1.50	0.000	13.17	0.422	24.83	0.612	36.50	1.807	48.17	1.218	59.83	2.182	71.50	1.979	83.17	2.649
1.58	0.000	13.25	0.445	24.92	0.602	36.58	1.846	48.25	1.198	59.92	2.235	71.58	1.944	83.25	2.726
1.67	0.000	13.33	0.469	25.00	0.591	36.67	1.885	48.33	1.178	60.00	2.288	71.67	1.912	83.33	2.803
1.75	0.000	13.42	0.494	25.08	0.580	36.75	1.925	48.42	1.159	60.08	2.340	71.75	1.880	83.42	2.881
1.83	0.000	13.50	0.520	25.17	0.570	36.83	1.965	48.50	1.140	60.17	2.392	71.83	1.847	83.50	2.957
1.92	0.000	13.58	0.545	25.25	0.560	36.92	2.005	48.58	1.121	60.25	2.445	71.92	1.815	83.58	3.029
2.00	0.000	13.67	0.571	25.33	0.550	37.00	2.043	48.67	1.103	60.33	2.498	72.00	1.781	83.67	3.099
2.08	0.000	13.75	0.597	25.42	0.540	37.08	2.081	48.75	1.084	60.42	2.552	72.08	1.748	83.75	3.168
2.17	0.000	13.83	0.623	25.50	0.531	37.17	2.118	48.83	1.066	60.50	2.605	72.17	1.714	83.83	3.236
2.25	0.000	13.92	0.647	25.58	0.522	37.25	2.155	48.92	1.049	60.58	2.657	72.25	1.680	83.92	3.304
2.33	0.000	14.00	0.671	25.67	0.513	37.33	2.191	49.00	1.031	60.67	2.710	72.33	1.647	84.00	3.373
2.42	0.000	14.08	0.696	25.75	0.505	37.42	2.226	49.08	1.014	60.75	2.762	72.42	1.613	84.08	3.443
2.50	0.000	14.17	0.722	25.83	0.497	37.50	2.262	49.17	0.996	60.83	2.812	72.50	1.581	84.17	3.512
2.58	0.000	14.25	0.748	25.92	0.489	37.58	2.297	49.25	0.977	60.92	2.859	72.58	1.550	84.25	3.583
2.67	0.000	14.33	0.775	26.00	0.481	37.67	2.331	49.33	0.959	61.00	2.903	72.67	1.519	84.33	3.653
2.75	0.000	14.42	0.802	26.08	0.473	37.75	2.366	49.42	0.941	61.08	2.946	72.75	1.488	84.42	3.723
2.83	0.000	14.50	0.830	26.17	0.465	37.83	2.400	49.50	0.922	61.17	2.988	72.83	1.458	84.50	3.793
2.92	0.000	14.58	0.858	26.25	0.457	37.92	2.435	49.58	0.905	61.25	3.031	72.92	1.429	84.58	3.864
3.00	0.000	14.67	0.887	26.33	0.449	38.00	2.469	49.67	0.888	61.33	3.073	73.00	1.400	84.67	3.934
3.08	0.000	14.75	0.915	26.42	0.441	38.08	2.502	49.75	0.872	61.42	3.115	73.08	1.372	84.75	4.002
3.17	0.000	14.83	0.941	26.50	0.434	38.17	2.535	49.83	0.856	61.50	3.158	73.17	1.345	84.83	4.071
3.25	0.000	14.92	0.967	26.58	0.426	38.25	2.567	49.92	0.840	61.58	3.200	73.25	1.319	84.92	4.140
3.33	0.000	15.00	0.992	26.67	0.418	38.33	2.598	50.00	0.825	61.67	3.243	73.33	1.294	85.00	4.209
3.42	0.000	15.08	1.016	26.75	0.410	38.42	2.628	50.08	0.810	61.75	3.285	73.42	1.269	85.08	4.279
3.50	0.000	15.17	1.040	26.83	0.403	38.50	2.656	50.17	0.795	61.83	3.327	73.50	1.246	85.17	4.348
3.58	0.000	15.25	1.064	26.92	0.395	38.58	2.682	50.25	0.780	61.92	3.368	73.58	1.223	85.25	4.417
3.67	0.000	15.33	1.087	27.00	0.388	38.67	2.706	50.33	0.766	62.00	3.409	73.67	1.200	85.33	4.486
3.75	0.000	15.42	1.111	27.08	0.381	38.75	2.729	50.42	0.752	62.08	3.450	73.75	1.178	85.42	4.553
3.83	0.000	15.50	1.135	27.17	0.374	38.83	2.751	50.50	0.739	62.17	3.490	73.83	1.157	85.50	4.620
3.92	0.000	15.58	1.158	27.25	0.367	38.92	2.773	50.58	0.725	62.25	3.528	73.92	1.136	85.58	4.687
4.00	0.000	15.67	1.180	27.33	0.361	39.00	2.794	50.67	0.713	62.33	3.567	74.00	1.116	85.67	4.752
4.08	0.000	15.75	1.202	27.42	0.354	39.08	2.816	50.75	0.700	62.42	3.605	74.08	1.097	85.75	4.818
4.17	0.000	15.83	1.224	27.50	0.348	39.17	2.837	50.83	0.687	62.50	3.641	74.17	1.077	85.83	4.881
4.25	0.000	15.92	1.246	27.58	0.342	39.25	2.858	50.92	0.675	62.58	3.676	74.25	1.058	85.92	4.943
4.33	0.000	16.00	1.268	27.67	0.336	39.33	2.879	51.00	0.663	62.67	3.711	74.33	1.039	86.00	5.005
4.42	0.000	16.08	1.289	27.75	0.331	39.42	2.899	51.08	0.651	62.75	3.745	74.42	1.021	86.08	5.066
4.50	0.000	16.17	1.309	27.83	0.325	39.50	2.918	51.17	0.640	62.83	3.778	74.50	1.002	86.17	5.126
4.58	0.000	16.25	1.330	27.92	0.320	39.58	2.936	51.25	0.628	62.92	3.811	74.58	0.982	86.25	5.187
4.67	0.000	16.33	1.349	28.00	0.314	39.67	2.954	51.33	0.617	63.00	3.843	74.67	0.962	86.33	5.249
4.75	0.000	16.42	1.366	28.08	0.309	39.75	2.972	51.42	0.606	63.08	3.874	74.75	0.943	86.42	5.311
4.83	0.000	16.50	1.383	28.17	0.304	39.83	2.989	51.50	0.593	63.17	3.905	74.83	0.924	86.50	5.371
4.92	0.000	16.58	1.398	28.25	0.298	39.92	3.005	51.58	0.581	63.25	3.935	74.92	0.905	86.58	5.430
5.00	0.000	16.67	1.412	28.33	0.292	40.00	3.019	51.67	0.569	63.33	3.964	75.00	0.887	86.67	5.487
5.08	0.000	16.75	1.425	28.42	0.286	40.08	3.034	51.75	0.557	63.42	3.991	75.08	0.869	86.75	5.543
5.17	0.000	16.83	1.438	28.50	0.280	40.17	3.047	51.83	0.545	63.50	4.017	75.17	0.852	86.83	5.598
5.25	0.000	16.92	1.451	28.58	0.274	40.25	3.059	51.92	0.534	63.58	4.043	75.25	0.836	86.92	5.650
5.33	0.000	17.00	1.463	28.67	0.268	40.33	3.071	52.00	0.523	63.67	4.066	75.33	0.820	87.00	5.700
5.42	0.000	17.08	1.474	28.75	0.262	40.42	3.081	52.08	0.513	63.75	4.091	75.42	0.804	87.08	5.750
5.50	0.000	17.17	1.485	28.83	0.256	40.50	3.091	52.17	0.503	63.83	4.114	75.50	0.789	87.17	5.797
5.58	0.000	17.25	1.494	28.92	0.251	40.58	3.099	52.25	0.493	63.92	4.134	75.58	0.773	87.25	5.842
5.67	0.000	17.33	1.504	29.00	0.246	40.67	3.106	52.33	0.484	64.00	4.154	75.67	0.759	87.33	5.885
5.75	0.000	17.42	1.512	29.08	0.241	40.75	3.113	52.42	0.475	64.08	4.173	75.75	0.744	87.42	5.925
5.83	0.000	17.50	1.519	29.17	0.237	40.83	3.119	52.50	0.466	64.17	4.191	75.83	0.730	87.50	5.965
5.92	0.000	17.58	1.525	29.25	0.232	40.92	3.123	52.58	0.457	64.25	4.207	75.92	0.717	87.58	6.002
6.00	0.000	17.67	1.530	29.33	0.228	41.00	3.127	52.67	0.448	64.33	4.222	76.00	0.703	87.67	6.037
6.08	0.000	17.75	1.535	29.42	0.224	41.08	3.131	52.75	0.440	64.42	4.235	76.08	0.690	87.75	6.072
6.17	0.000	17.83	1.539	29.50	0.220	41.17	3.132	52.83	0.431	64.50	4.248	76.17	0.678	87.83	6.106
6.25	0.000	17.92	1.543	29.58	0.217	41.25	3.134	52.92	0.423	64.58	4.258	76.25	0.665	87.92	6.139
6.33	0.000	18.00	1.545	29.67	0.213	41.33	3.135	53.00	0.414	64.67	4.268	76.33	0.653	88.00	6.169
6.42	0.000	18.08	1.547	29.75	0.209	41.42	3.134	53.08	0.406	64.75	4.276	76.42	0.641	88.08	6.197
6.50	0.000	18.17	1.548	29.83	0.206	41.50	3.131	53.17	0.398	64.83	4.283	76.50	0.629	88.17	6.224
6.58	0.000	18.25	1.548	29.92	0.202	41.58	3.127	53.25	0.390	64.92	4.289	76.58	0.617	88.25	6.249
6.67	0.000	18.33	1.547	30.00	0.199	41.67	3.122	53.33	0.382	65.00	4.294	76.67	0.605	88.33	6.272
6.75	0.000	18.42	1.545	30.08	0.196	41.75	3.115	53.42	0.375	65.08	4.298	76.75	0.593	88.42	6.293
6.83	0.000	18.50	1.542	30.17	0.193	41.83	3.108	53.50	0.368	65.17	4.301	76.83	0.580	88.50	6.312
6.92	0.000	18.58	1.538	30.25	0.191	41.92	3.100	53.58	0.361	65.25	4.302	76.92	0.567	88.58	6.328
7.00	0.000	18.67	1.533	30.33	0.188	42.00	3.090	53.67	0.354	65.33	4.303	77.00	0.555	88.67	6.342
7.08	0.000	18.75	1.527	30.42	0.187	42.08	3.078	53.75	0.347	65.42	4.302	77.08	0.542	88.75	6.355
7.17	0.000	18.83	1.521	30.50	0.185	42.17	3.067	53.83	0.340	65.50	4.297	77.17	0.530	88.83	6.366
7.25	0.000	18.92	1.514	30.58	0.185	42.25	3.055	53.92	0.334	65.58	4.291	77.25	0.519	88.92	6.376
7.33	0.000	19.00	1.506	30.67	0.184	42.33	3.043	54.00	0.328	65.67	4.286	77.33	0.508	89.00	6.384
7.42	0.000	19.08	1.497	30.75	0.184	42.42	3.029	54.08	0.322	65.75	4.279	77.42	0.498	89.08	6.390
7.50	0.001	19.17	1.488	30.83	0.184	42.50	3.014	54.17	0.317	65.83	4.270	77.50	0.488	89.17	6.396
7.58	0.002	19.25	1.478	30.92	0.185	42.58	2.998	54.25	0.312	65.92	4.260	77.58	0.478	89.25	6.399
7.67	0.003	19.33	1.467	31.00	0.186	42.67	2.980	54.33	0.308	66.00	4.249	77.67	0.469	89.33	6.399
7.75	0.004	19.42	1.456	31.08	0.187	42.75	2.961	54.42	0.303	66.08	4.237	77.75	0.459	89.42	6.395
7.83	0.006	19.50	1.445	31.17	0.189	42.83	2.942	54.50	0.299	66.17	4.223	77.83	0.450	89.50	6.392
7.92	0.007	19.58	1.433	31.25	0.192	42.92	2.921	54.58	0.296	66.25	4.206	77.92	0.441	89.58	6.387
8.00	0.010	19.67	1.421	31.33	0.195	43.00	2.899	54.67	0.294	66.33	4.187	78.00	0.433	89.67	6.376
8.08	0.011	19.75	1.408	31.42	0.199	43.08	2.877	54.75	0.293	66.42	4.168	78.08	0.424	89.75	6.366
8.17	0.013	19.83	1.396	31.50	0.205	43.17	2.853	54.83	0.292	66.50	4.147	78.17	0.417	89.83	6.356
8.25	0.015	19.92	1.383	31.58	0.210	43.25	2.829	54.92	0.291	66.58	4.123	78.25	0.410	89.92	6.342
8.33	0.017	20.00	1.369	31.67	0.217	43.33	2.806	55.00	0.291	66.67	4.096	78.33	0.403	90.00	6.323
8.42	0.019	20.08	1.356	31.75	0.224	43.42	2.783	55.08	0.293	66.75	4.069	78.42	0.398	90.08	6.304
8.50	0.020	20.17	1.342	31.83	0.232	43.50	2.758	55.17	0.296	66.83	4.040	78.50	0.394	90.17	6.285
8.58	0.022	20.25	1.328	31.92	0.240	43.58	2.732	55.25	0.300	66.92	4.009	78.58	0.391	90.25	6.263
8.67	0.024	20.33	1.314	32.00	0.250	43.67	2.706	55.33	0.305	67.00	3.977	78.67	0.390	90.33	6.238
8.75	0.025	20.42	1.300	32.08	0.260	43.75	2.679	55.42	0.312	67.08	3.943	78.75	0.390	90.42	6.210
8.83	0.027	20.50	1.286	32.17	0.270	43.83	2.652	55.50	0.320	67.17	3.911	78.83	0.390	90.50	6.180
8.92	0.028	20.58	1.271	32.25	0.282	43.92	2.626	55.58	0.330	67.25	3.878	78.92	0.392	90.58	6.146
9.00	0.029	20.67	1.257	32.33	0.294	44.00	2.598	55.67	0.340	67.33	3.845	79.00	0.394	90.67	6.109
9.08	0.030	20.75	1.242	32.42	0.308	44.08	2.570	55.75	0.352	67.42	3.810	79.08	0.398	90.75	6.069
9.17	0.031	20.83	1.227	32.50	0.322	44.17	2.543	55.83	0.366	67.50	3.775	79.17	0.404	90.83	6.027
9.25	0.032	20.92	1.213	32.58	0.338	44.25	2.516	55.92	0.380	67.58	3.741	79.25	0.411	90.92	5.983
9.33	0.033	21.00	1.198	32.67	0.354	44.33	2.487	56.00	0.395	67.67	3.705	79.33	0.420	91.00	5.938
9.42	0.034	21.08	1.184	32.75	0.372	44.42	2.458	56.08	0.410	67.75	3.670	79.42	0.431	91.08	5.891
9.50	0.035	21.17	1.169	32.83	0.390	44.50	2.429	56.17	0.426	67.83	3.636	79.50	0.444	91.17	5.841
9.58	0.037	21.25	1.155	32.92	0.410	44.58	2.400	56.25	0.442	67.92	3.599	79.58	0.459	91.25	5.792
9.67	0.038	21.33	1.140	33.00	0.431	44.67	2.371	56.33	0.460	68.00	3.562	79.67	0.476	91.33	5.740
9.75	0.040	21.42	1.126	33.08	0.452	44.75	2.342	56.42	0.480	68.08	3.527	79.75	0.494	91.42	5.686
9.83	0.041	21.50	1.111	33.17	0.473	44.83	2.312	56.50	0.500	68.17	3.489	79.83	0.515	91.50	5.634
9.92	0.043	21.58	1.096	33.25	0.494	44.92	2.283	56.58	0.523	68.25	3.451	79.92	0.537	91.58	5.580
10.00	0.045	21.67	1.082	33.33	0.516	45.00	2.253	56.67	0.547	68.33	3.415	80.00	0.561	91.67	5.524
10.08	0.046	21.75	1.068	33.42	0.538	45.08	2.224	56.75	0.572	68.42	3.378	80.08	0.587	91.75	5.469
10.17	0.048	21.83	1.054	33.50	0.560	45.17	2.195	56.83	0.599	68.50	3.339	80.17	0.614	91.83	5.410
10.25	0.051	21.92	1.040	33.58	0.584	45.25	2.164	56.92	0.628	68.58	3.300	80.25	0.644	91.92	5.351
10.33	0.053	22.00	1.025	33.67	0.609	45.33	2.133	57.00	0.657	68.67	3.262	80.33	0.675	92.00	5.295
10.42	0.056	22.08	1.010	33.75	0.635	45.42	2.103	57.08	0.688	68.75	3.223	80.42	0.709	92.08	5.236
10.50	0.060	22.17	0.996	33.83	0.662	45.50	2.072	57.17	0.720	68.83	3.184	80.50	0.744	92.17	5.178
10.58	0.063	22.25	0.981	33.92	0.690	45.58	2.043	57.25	0.754	68.92	3.144	80.58	0.782	92.25	5.123
10.67	0.067	22.33	0.966	34.00	0.720	45.67	2.013	57.33	0.789	69.00	3.105	80.67	0.822	92.33	5.066
10.75	0.072	22.42	0.952	34.08	0.751	45.75	1.985	57.42	0.826	69.08	3.066	80.75	0.864	92.42	5.008
10.83	0.076	22.50	0.938	34.17	0.782	45.83	1.956	57.50	0.864	69.17	3.027	80.83	0.907	92.50	4.950
10.92	0.081	22.58	0.925	34.25	0.815	45.92	1.928	57.58	0.902	69.25	2.987	80.92	0.949	92.58	4.893
11.00	0.087	22.67	0.911	34.33	0.849	46.00	1.900	57.67	0.940	69.33	2.948	81.00	0.994	92.67	4.835
11.08	0.093	22.75	0.898	34.42	0.883	46.08	1.871	57.75	0.979	69.42	2.908	81.08	1.040	92.75	4.776
11.17	0.099	22.83	0.885	34.50	0.916	46.17	1.842	57.83	1.019	69.50	2.868	81.17	1.087	92.83	4.717
11.25	0.106	22.92	0.872	34.58	0.950	46.25	1.812	57.92	1.058	69.58	2.828	81.25	1.136	92.92	4.658
11.33	0.113	23.00	0.859	34.67	0.984	46.33	1.782	58.00	1.099	69.67	2.787	81.33	1.186	93.00	4.599
11.42	0.121	23.08	0.846	34.75	1.017	46.42	1.751	58.08	1.141	69.75	2.747	81.42	1.237	93.08	4.541
11.50	0.129	23.17	0.833	34.83	1.051	46.50	1.721	58.17	1.184	69.83	2.708	81.50	1.292	93.17	4.482
11.58	0.138	23.25	0.820	34.92	1.085	46.58	1.691	58.25	1.228	69.92	2.669	81.58	1.349	93.25	4.424

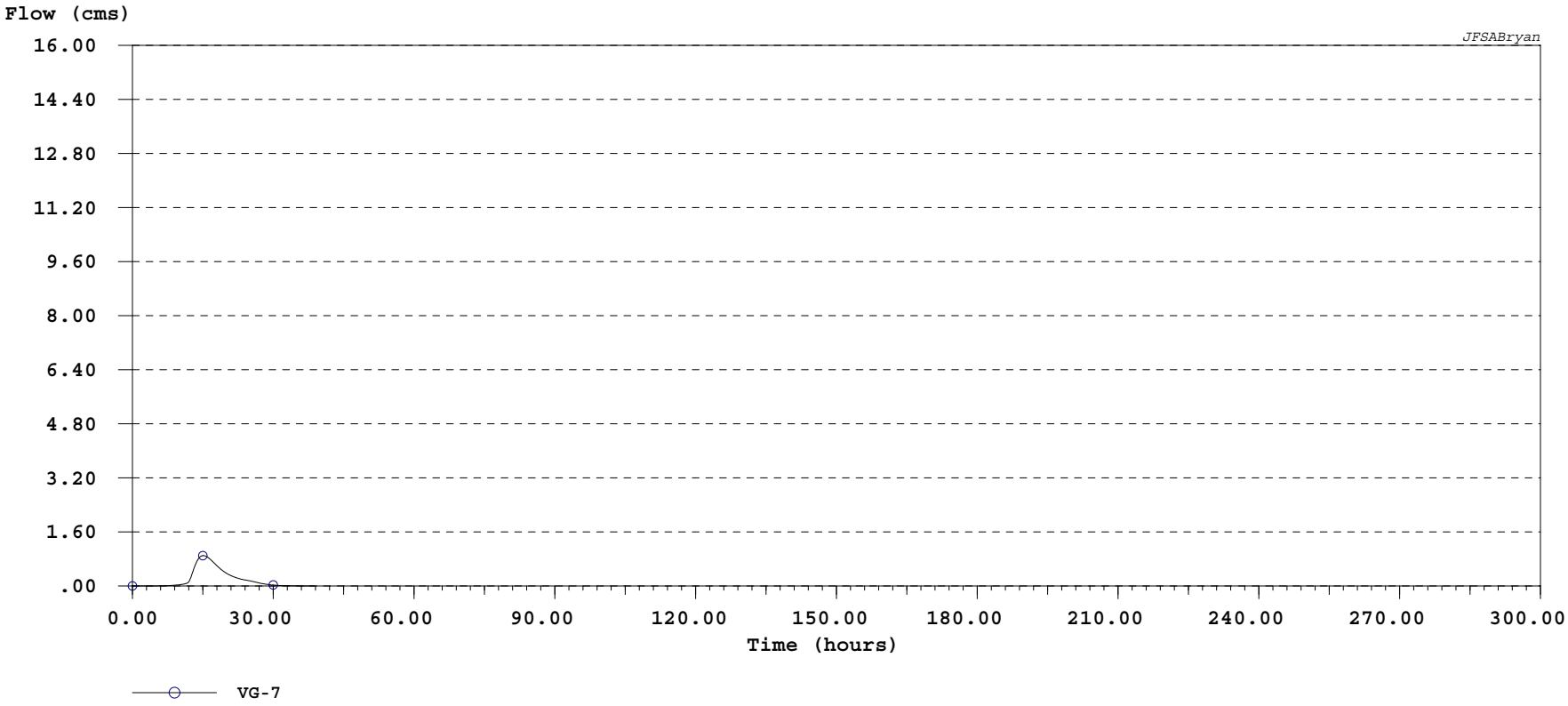
TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
93.33	4.367	105.00	1.823	116.67	9.304	128.33	1.197	140.00	6.487	151.67	0.659	163.33	4.768	175.00	0.443
93.42	4.310	105.08	1.913	116.75	9.186	128.42	1.233	140.08	6.422	151.75	0.670	163.42	4.723	175.08	0.441
93.50	4.253	105.17	2.008	116.83	9.067	128.50	1.271	140.17	6.353	151.83	0.682	163.50	4.675	175.17	0.440
93.58	4.196	105.25	2.107	116.92	8.938	128.58	1.311	140.25	6.282	151.92	0.696	163.58	4.629	175.25	0.441
93.67	4.139	105.33	2.211	117.00	8.806	128.67	1.353	140.33	6.214	152.00	0.711	163.67	4.585	175.33	0.442
93.75	4.082	105.42	2.317	117.08	8.680	128.75	1.396	140.42	6.146	152.08	0.727	163.75	4.539	175.42	0.445
93.83	4.026	105.50	2.425	117.17	8.546	128.83	1.441	140.50	6.077	152.17	0.745	163.83	4.492	175.50	0.448
93.92	3.970	105.58	2.536	117.25	8.427	128.92	1.487	140.58	6.007	152.25	0.765	163.92	4.446	175.58	0.453
94.00	3.914	105.67	2.650	117.33	8.311	129.00	1.533	140.67	5.938	152.33	0.786	164.00	4.399	175.67	0.459
94.08	3.859	105.75	2.767	117.42	8.201	129.08	1.581	140.75	5.867	152.42	0.808	164.08	4.351	175.75	0.467
94.17	3.804	105.83	2.887	117.50	8.093	129.17	1.633	140.83	5.796	152.50	0.833	164.17	4.304	175.83	0.475
94.25	3.749	105.92	3.009	117.58	7.987	129.25	1.686	140.92	5.725	152.58	0.860	164.25	4.256	175.92	0.485
94.33	3.693	106.00	3.130	117.67	7.885	129.33	1.740	141.00	5.654	152.67	0.888	164.33	4.208	176.00	0.495
94.42	3.637	106.08	3.246	117.75	7.787	129.42	1.797	141.08	5.582	152.75	0.917	164.42	4.160	176.08	0.506
94.50	3.582	106.17	3.361	117.83	7.691	129.50	1.858	141.17	5.511	152.83	0.948	164.50	4.111	176.17	0.519
94.58	3.527	106.25	3.477	117.92	7.595	129.58	1.921	141.25	5.437	152.92	0.981	164.58	4.062	176.25	0.533
94.67	3.473	106.33	3.593	118.00	7.500	129.67	1.987	141.33	5.364	153.00	1.014	164.67	4.014	176.33	0.548
94.75	3.420	106.42	3.710	118.08	7.405	129.75	2.055	141.42	5.292	153.08	1.050	164.75	3.965	176.42	0.564
94.83	3.369	106.50	3.830	118.17	7.309	129.83	2.124	141.50	5.219	153.17	1.087	164.83	3.917	176.50	0.582
94.92	3.319	106.58	3.953	118.25	7.213	129.92	2.194	141.58	5.147	153.25	1.125	164.92	3.868	176.58	0.601
95.00	3.270	106.67	4.078	118.33	7.116	130.00	2.264	141.67	5.075	153.33	1.166	165.00	3.820	176.67	0.622
95.08	3.221	106.75	4.203	118.42	7.018	130.08	2.336	141.75	5.004	153.42	1.208	165.08	3.771	176.75	0.643
95.17	3.174	106.83	4.328	118.50	6.920	130.17	2.408	141.83	4.934	153.50	1.252	165.17	3.721	176.83	0.665
95.25	3.128	106.92	4.453	118.58	6.824	130.25	2.483	141.92	4.865	153.58	1.299	165.25	3.671	176.92	0.688
95.33	3.082	107.00	4.580	118.67	6.730	130.33	2.560	142.00	4.798	153.67	1.346	165.33	3.621	177.00	0.713
95.42	3.036	107.08	4.709	118.75	6.638	130.42	2.638	142.08	4.731	153.75	1.393	165.42	3.572	177.08	0.738
95.50	2.990	107.17	4.841	118.83	6.548	130.50	2.718	142.17	4.662	153.83	1.441	165.50	3.524	177.17	0.764
95.58	2.945	107.25	4.975	118.92	6.458	130.58	2.800	142.25	4.593	153.92	1.487	165.58	3.477	177.25	0.792
95.67	2.899	107.33	5.110	119.00	6.369	130.67	2.881	142.33	4.524	154.00	1.535	165.67	3.431	177.33	0.820
95.75	2.853	107.42	5.246	119.08	6.281	130.75	2.961	142.42	4.456	154.08	1.582	165.75	3.385	177.42	0.849
95.83	2.806	107.50	5.383	119.17	6.193	130.83	3.038	142.50	4.389	154.17	1.630	165.83	3.340	177.50	0.879
95.92	2.759	107.58	5.519	119.25	6.105	130.92	3.114	142.58	4.323	154.25	1.681	165.92	3.294	177.58	0.909
96.00	2.712	107.67	5.658	119.33	6.018	131.00	3.190	142.67	4.257	154.33	1.733	166.00	3.251	177.67	0.940
96.08	2.665	107.75	5.798	119.42	5.933	131.08	3.267	142.75	4.192	154.42	1.787	166.08	3.208	177.75	0.971
96.17	2.619	107.83	5.938	119.50	5.849	131.17	3.345	142.83	4.128	154.50	1.842	166.17	3.166	177.83	1.003
96.25	2.574	107.92	6.082	119.58	5.763	131.25	3.423	142.92	4.064	154.58	1.899	166.25	3.122	177.92	1.037
96.33	2.530	108.00	6.229	119.67	5.677	131.33	3.503	143.00	4.002	154.67	1.957	166.33	3.079	178.00	1.071
96.42	2.486	108.08	6.378	119.75	5.590	131.42	3.583	143.08	3.940	154.75	2.017	166.42	3.036	178.08	1.107
96.50	2.443	108.17	6.526	119.83	5.503	131.50	3.665	143.17	3.878	154.83	2.077	166.50	2.993	178.17	1.143
96.58	2.400	108.25	6.672	119.92	5.419	131.58	3.748	143.25	3.816	154.92	2.138	166.58	2.950	178.25	1.181
96.67	2.357	108.33	6.815	120.00	5.335	131.67	3.832	143.33	3.755	155.00	2.197	166.67	2.907	178.33	1.220
96.75	2.315	108.42	6.957	120.08	5.252	131.75	3.917	143.42	3.694	155.08	2.258	166.75	2.863	178.42	1.261
96.83	2.273	108.50	7.100	120.17	5.168	131.83	4.000	143.50	3.633	155.17	2.317	166.83	2.819	178.50	1.302
96.92	2.231	108.58	7.242	120.25	5.085	131.92	4.082	143.58	3.571	155.25	2.378	166.92	2.774	178.58	1.345
97.00	2.190	108.67	7.384	120.33	5.002	132.00	4.165	143.67	3.510	155.33	2.439	167.00	2.729	178.67	1.388
97.08	2.150	108.75	7.524	120.42	4.919	132.08	4.249	143.75	3.450	155.42	2.501	167.08	2.685	178.75	1.429
97.17	2.110	108.83	7.662	120.50	4.835	132.17	4.333	143.83	3.392	155.50	2.564	167.17	2.642	178.83	1.470
97.25	2.069	108.92	7.799	120.58	4.751	132.25	4.418	143.92	3.336	155.58	2.627	167.25	2.599	178.92	1.511
97.33	2.028	109.00	7.933	120.67	4.667	132.33	4.503	144.00	3.282	155.67	2.691	167.33	2.557	179.00	1.552
97.42	1.988	109.08	8.062	120.75	4.584	132.42	4.589	144.08	3.228	155.75	2.755	167.42	2.516	179.08	1.592
97.50	1.948	109.17	8.190	120.83	4.501	132.50	4.674	144.17	3.175	155.83	2.818	167.50	2.475	179.17	1.634
97.58	1.910	109.25	8.318	120.92	4.420	132.58	4.760	144.25	3.123	155.92	2.879	167.58	2.435	179.25	1.676
97.67	1.873	109.33	8.447	121.00	4.339	132.67	4.845	144.33	3.073	156.00	2.937	167.67	2.395	179.33	1.720
97.75	1.837	109.42	8.577	121.08	4.259	132.75	4.930	144.42	3.024	156.08	2.993	167.75	2.355	179.42	1.764
97.83	1.801	109.50	8.708	121.17	4.180	132.83	5.014	144.50	2.976	156.17	3.048	167.83	2.316	179.50	1.809
97.92	1.765	109.58	8.838	121.25	4.102	132.92	5.097	144.58	2.928	156.25	3.103	167.92	2.276	179.58	1.855
98.00	1.727	109.67	8.965	121.33	4.025	133.00	5.180	144.67	2.880	156.33	3.157	168.00	2.237	179.67	1.901
98.08	1.690	109.75	9.090	121.42	3.949	133.08	5.263	144.75	2.832	156.42	3.213	168.08	2.198	179.75	1.948
98.17	1.654	109.83	9.213	121.50	3.874	133.17	5.345	144.83	2.783	156.50	3.268	168.17	2.160	179.83	1.995
98.25	1.616	109.92	9.333	121.58	3.800	133.25	5.428	144.92	2.733	156.58	3.325	168.25	2.122	179.92	2.043
98.33	1.579	110.00	9.449	121.67	3.727	133.33	5.513	145.00	2.684	156.67	3.381	168.33	2.083	180.00	2.089
98.42	1.543	110.08	9.560	121.75	3.655	133.42	5.599	145.08	2.635	156.75	3.438	168.42	2.044	180.08	2.135
98.50	1.508	110.17	9.667	121.83	3.582	133.50	5.684	145.17	2.587	156.83	3.495	168.50	2.005	180.17	2.180
98.58	1.472	110.25	9.772	121.92	3.509	133.58	5.768	145.25	2.540	156.92	3.552	168.58	1.967	180.25	2.225
98.67	1.438	110.33	9.878	122.00	3.439	133.67	5.851	145.33	2.494	157.00	3.609	168.67	1.931	180.33	2.269
98.75	1.406	110.42	9.985	122.08	3.370	133.75	5.932	145.42	2.448	157.08	3.664	168.75	1.895	180.42	2.314
98.83	1.374	110.50	10.091	122.17	3.304	133.83	6.013	145.50	2.403	157.17	3.719	168.83	1.860	180.50	2.359
98.92	1.343	110.58	10.196	122.25	3.240	133.92	6.090	145.58	2.358	157.25	3.773	168.92	1.826	180.58	2.404
99.00	1.314	110.67	10.301	122.33	3.177	134.00	6.165	145.67	2.314	157.33	3.826	169.00	1.791	180.67	2.449
99.08	1.286	110.75	10.405	122.42	3.116	134.08	6.239	145.75	2.269	157.42	3.879	169.08	1.756	180.75	2.494
99.17	1.259	110.83	10.507	122.50	3.056	134.17	6.310	145.83	2.225	157.50	3.930	169.17	1.720	180.83	2.539
99.25	1.233	110.92	10.608	122.58	2.998	134.25	6.381	145.92	2.182	157.58	3.982	169.25	1.685	180.92	2.583
99.33	1.209	111.00	10.707	122.67	2.943	134.33	6.451	146.00	2.140	157.67	4.034	169.33	1.649	181.00	2.627
99.42	1.184	111.08	10.803	122.75	2.890	134.42	6.520	146.08	2.097	157.75	4.086	169.42	1.614	181.08	2.671
99.50	1.161	111.17	10.897	122.83	2.837	134.50	6.587	146.17	2.054	157.83	4.137	169.50	1.578	181.17	2.714
99.58	1.138	111.25	10.980	122.92	2.782	134.58	6.653	146.25	2.012	157.92	4.189	169.58	1.545	181.25	2.754
99.67	1.116	111.33	11.057	123.00	2.728	134.67	6.717	146.33	1.970	158.00	4.239	169.67	1.511	181.33	2.791
99.75	1.095	111.42	11.127	123.08	2.673	134.75	6.780	146.42	1.929	158.08	4.290	169.75	1.477	181.42	2.827
99.83	1.074	111.50	11.201	123.17	2.620	134.83	6.841	146.50	1.890	158.17	4.339	169.83	1.445	181.50	2.861
99.92	1.054	111.58	11.271	123.25	2.567	134.92	6.902	146.58	1.851	158.25	4.387	169.92	1.414	181.58	2.895
100.00	1.033	111.67	11.342	123.33	2.515	135.00	6.960	146.67	1.814	158.33	4.434	170.00	1.384	181.67	2.929
100.08	1.013	111.75	11.413	123.42	2.464	135.08	7.017	146.75	1.776	158.42	4.481	170.08	1.355	181.75	2.963
100.17	0.992	111.83	11.488	123.50	2.414	135.17	7.073	146.83	1.738	158.50	4.526	170.17	1.326	181.83	2.997
100.25	0.971	111.92	11.562	123.58	2.364	135.25	7.127	146.92	1.699	158.58	4.569	170.25	1.299	181.92	3.032
100.33	0.951	112.00	11.635	123.67	2.314	135.33	7.177	147.00	1.660	158.67	4.613	170.33	1.273	182.00	3.066
100.42	0.930	112.08	11.704	123.75	2.265	135.42	7.224	147.08	1.622	158.75	4.656	170.42	1.248	182.08	3.099
100.50	0.910	112.17	11.768	123.83	2.217	135.50	7.268	147.17	1.583	158.83	4.697	170.50	1.223	182.17	3.133
100.58	0.890	112.25	11.829	123.92	2.170	135.58	7.311	147.25	1.545	158.92	4.737	170.58	1.200	182.25	3.166
100.67	0.872	112.33	11.884	124.00	2.123	135.67	7.354	147.33	1.507	159.00	4.776	170.67	1.177	182.33	3.198
100.75	0.854	112.42	11.935	124.08	2.076	135.75	7.397	147.42	1.470	159.08	4.814	170.75	1.154	182.42	3.230
100.83	0.836	112.50	11.980	124.17	2.029	135.83	7.436	147.50	1.434	159.17	4.851	170.83	1.133	182.50	3.261
100.92	0.820	112.58	12.022	124.25	1.984	135.92	7.472	147.58	1.400	159.25	4.889	170.92	1.112	182.58	3.292
101.00	0.803	112.67	12.057	124.33	1.939	136.00	7.507	147.67	1.367	159.33	4.926	171.00	1.091	182.67	3.321
101.08	0.787	112.75	12.088	124.42	1.896	136.08	7.539	147.75	1.336	159.42	4.963	171.08	1.071	182.75	3.350
101.17	0.771	112.83	12.116	124.50	1.854	136.17	7.568	147.83	1.306	159.50	4.998	171.17	1.051	182.83	3.378
101.25	0.756	112.92	12.140	124.58	1.813	136.25	7.594	147.92	1.277	159.58	5.032	171.25	1.032	182.92	3.406
101.33	0.741	113.00	12.159	124.67	1.772	136.33	7.618	148.00	1.249	159.67	5.064	171.33	1.012	183.00	3.433
101.42	0.726	113.08	12.185	124.75	1.729	136.42	7.639	148.08	1.222	159.75	5.095	171.42	0.992	183.08	3.459
101.50	0.712	113.17	12.187	124.83	1.687	136.50	7.656	148.17	1.197	159.83	5.125	171.50	0.971	183.17	3.485
101.58	0.698	113.25	12.187	124.92	1.645	136.58	7.672	148.25	1.172	159.92	5.152	171.58	0.951	183.25	3.510
101.67	0.685	113.33	12.200	125.00	1.604	136.67	7.686	148.33	1.149	160.00	5.178	171.67	0.931	183.33	3.533
101.75	0.672	113.42	12.204	125.08	1.562	136.75	7.696	148.42	1.125	160.08	5.202	171.75	0.911	183.42	3.556
101.83	0.659	113.50	12.186	125.17	1.521	136.83	7.705	148.50	1.103	160.17	5.223	171.83	0.892	183.50	3.577
101.92	0.646	113.58	12.166	125.25	1.480	136.92	7.713	148.58	1.081	160.25	5.244	171.92	0.874	183.58	3.598
102.00	0.634	113.67	12.159	125.33	1.441	137.00	7.718	148.67	1.060	160.33	5.263	172.00	0.857	183.67	3.618
102.08	0.622	113.75	12.144	125.42	1.403	137.08	7.721	148.75	1.039	160.42	5.279	172.08	0.839	183.75	3.637
102.17	0.611	113.83	12.125	125.50	1.367	137.17	7.725	148.83	1.018	160.50	5.294	172.17	0.823	183.83	3.654
102.25	0.601	113.92	12.100	125.58	1.333	137.25	7.724	148.92	0.997	160.58	5.308	172.25	0.807	183.92	3.670
102.33	0.591	114.00	12.071	125.67	1.300	137.33	7.719	149.00	0.975	160.67	5.319	172.33	0.791	184.00	3.687
102.42	0.584	114.08	12.037	125.75	1.269	137.42	7.713	149.08	0.954	160.75	5.328	172.42	0.775	184.08	3.703
102.50	0.579	114.17	11.998	125.83	1.239	137.50	7.706	149.17	0.932	160.83	5.337	172.50	0.760	184.17	3.717
102.58	0.576	114.25	11.955	125.92	1.211	137.58	7.695	149.25	0.911	160.92	5.343	172.58	0.745	184.25	3.730
102.67	0.576	114.33	11.908	126.00	1.184	137.67	7.683	149.33	0.891	161.00	5.349	172.67	0.731	184.33	3.742
102.75	0.578	114.42	11.857	126.08	1.158	137.75	7.669	149.42	0.872	161.08	5.353	172.75	0.717	184.42	3.753
102.83	0.583	114.50	11.801	126.17	1.134	137.83	7.651	149.50	0.854	161.17	5.355	172.83	0.703	184.50	3.763
102.92	0.591	114.58	11.739	126.25	1.111	137.92	7.634	149.58	0.836	161.25	5.356	172.92	0.690	184.58	3.772
103.00	0.600	114.67	11.673	126.33	1.090	138.00	7.617	149.67	0.819	161.33	5.355	173.00	0.677	184.67	3.779
103.08	0.612	114.75	11.603	126.42	1.071	138.08	7.597	149.75	0.802	161.42	5.350	173.08	0.664	184.75	3.785
103.17	0.628	114.83	11.528	126.50	1.053	138.17	7.571	149.83	0.786	161.50	5.345	173.17	0.652	184.83	3.791
103.25	0.647	114.92	11.450	126.58	1.037	138.25	7.544	149.92	0.770	161.58	5.338	173.25	0.639	184.92	3.795
103.33	0.669	115.00	11.382	126.67	1.022	138.33	7.517	150.00	0.754	161.67	5.327	173.33	0.627	185.00	3.798
103.42	0.695	115.08	11.308	126.75	1.009	138.42	7.488	150.08	0.739	161.75	5.316	173.42	0.615	185.08	3.800
103.50	0.725	115.17	11.215	126.83	0.997	138.50	7.457	150.17	0.725	161.83	5.304	173.50	0.603	185.17	3.801
103.58	0.760	115.25	11.135	126.92	0.987	138.58	7.423	150.25	0.712	161.92	5.290	173.58	0.590	185.25	3.802
103.67	0.798	115.33	11.048	127.00	0.978	138.67	7.386	150.33	0.699	162.00	5.272	173.67	0.577	185.33	3.801
103.75	0.839	115.42	10.943	127.08	0.972	138.75	7.346	150.42	0.688	162.08	5.253	173.75	0.564	185.42	3.797
103.83	0.881	115.50	10.855	127.17	0.968	138.83	7.303	150.50	0.678	162.17	5.233	173.83	0.551	185.50	3.792
103.92	0.927	115.58	10.761	127.25	0.967	138.92	7.258	150.58	0.669	162.25	5.213	173.92	0.538	185.58	3.788
104.00	0.975	115.67	10.658	127.33	0.970	139.00	7.211	150.67	0.661	162.33	5.190	174.00	0.526	185.67	3.781
104.08	1.027	115.75	10.554	127.42	0.975	139.08	7.162	150.75	0.654	162.42	5.165	174.08	0.514	185.75	3.771
104.17	1.083	115.83	10.451	127.50	0.983	139.17	7.108	150.83	0.648	162.50	5.138	174.17	0.504	185.83	3.761
104.25	1.144	115.92	10.344	127.58	0.993	139.25	7.053	150.92	0.643	162.58	5.109	174.25	0.494	185.92	3.752
104.33	1.207	116.00	10.235	127.67	1.007	139.33	6.995	151.00	0.639	162.67	5.078	174.33	0.485	186.00	3.742
104.42	1.273	116.08	10.124	127.75	1.022	139.42	6.934	151.08	0.637	162.75	5.045	174.42	0.477	186.08	3.730
104.50	1.343	116.17	10.013	127.83	1.041	139.50	6.874	151.17	0.635	162.83	5.010	174.50	0.470	186.17	3.715
104.58	1.418	116.25	9.899	127.92	1.061	139.58	6.813	151.25	0.634	162.92	4.974	174.58	0.464	186.25	3.696
104.67	1.496	116.33	9.784	128.00	1.083	139.67	6.750	151.33	0.635	163.00	4.935	174.67	0.458	186.33	3.678
104.75	1.573	116.42	9.665	128.08	1.107	139.75	6.686	151.42	0.638	163.08	4.893	174.75	0.453	186.42	3.660
104.83	1.654	116.50	9.544	128.17	1.135	139.83	6.620	151.50	0.644	163.17	4.851	174.83	0.449	186.50	3.640
104.92	1.737	116.58	9.424	128.25	1.165	139.92	6.553	151.58	0.650	163.25	4.809	174.92	0.446	186.58	3.618

TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms	TIME hrs	FLOW cms
186.67	3.594	198.33	0.355	210.00	2.821	221.67	0.322	233.33	3.450	245.00	0.445	256.67	0.019	268.33	0.000
186.75	3.570	198.42	0.350	210.08	2.811	221.75	0.316	233.42	3.446	245.08	0.436	256.75	0.018	268.42	0.000
186.83	3.545	198.50	0.345	210.17	2.801	221.83	0.310	233.50	3.442	245.17	0.428	256.83	0.018	268.50	0.000
186.92	3.519	198.58	0.340	210.25	2.789	221.92	0.305	233.58	3.438	245.25	0.419	256.92	0.017	268.58	0.000
187.00	3.492	198.67	0.337	210.33	2.776	222.00	0.299	233.67	3.432	245.33	0.411	257.00	0.017	268.67	0.000
187.08	3.466	198.75	0.333	210.42	2.762	222.08	0.292	233.75	3.422	245.42	0.403	257.08	0.016	268.75	0.000
187.17	3.441	198.83	0.330	210.50	2.747	222.17	0.286	233.83	3.413	245.50	0.395	257.17	0.016	268.83	0.000
187.25	3.412	198.92	0.328	210.58	2.731	222.25	0.281	233.92	3.403	245.58	0.387	257.25	0.015	268.92	0.000
187.33	3.382	199.00	0.326	210.67	2.714	222.33	0.276	234.00	3.393	245.67	0.379	257.33	0.015	269.00	0.000
187.42	3.352	199.08	0.325	210.75	2.696	222.42	0.270	234.08	3.381	245.75	0.372	257.42	0.014	269.08	0.000
187.50	3.323	199.17	0.325	210.83	2.677	222.50	0.266	234.17	3.367	245.83	0.364	257.50	0.014	269.17	0.000
187.58	3.292	199.25	0.325	210.92	2.657	222.58	0.263	234.25	3.350	245.92	0.357	257.58	0.013	269.25	0.000
187.67	3.260	199.33	0.326	211.00	2.637	222.67	0.260	234.33	3.333	246.00	0.350	257.67	0.013	269.33	0.000
187.75	3.229	199.42	0.328	211.08	2.615	222.75	0.259	234.42	3.316	246.08	0.344	257.75	0.013	269.42	0.000
187.83	3.196	199.50	0.330	211.17	2.593	222.83	0.258	234.50	3.298	246.17	0.337	257.83	0.012	269.50	0.000
187.92	3.163	199.58	0.334	211.25	2.572	222.92	0.258	234.58	3.279	246.25	0.331	257.92	0.012	269.58	0.000
188.00	3.131	199.67	0.339	211.33	2.551	223.00	0.258	234.67	3.259	246.33	0.325	258.00	0.012	269.67	0.000
188.08	3.098	199.75	0.344	211.42	2.529	223.08	0.260	234.75	3.238	246.42	0.319	258.08	0.011	269.75	0.000
188.17	3.064	199.83	0.350	211.50	2.505	223.17	0.262	234.83	3.216	246.50	0.313	258.17	0.011	269.83	0.000
188.25	3.030	199.92	0.356	211.58	2.482	223.25	0.265	234.92	3.192	246.58	0.307	258.25	0.011	269.92	0.000
188.33	2.996	200.00	0.364	211.67	2.457	223.33	0.269	235.00	3.168	246.67	0.301	258.33	0.010	270.00	0.000
188.42	2.961	200.08	0.372	211.75	2.431	223.42	0.274	235.08	3.145	246.75	0.294	258.42	0.010	270.08	0.000
188.50	2.925	200.17	0.381	211.83	2.407	223.50	0.280	235.17	3.122	246.83	0.288	258.50	0.010	270.17	0.000
188.58	2.889	200.25	0.390	211.92	2.382	223.58	0.287	235.25	3.096	246.92	0.281	258.58	0.009	270.25	0.000
188.67	2.853	200.33	0.400	212.00	2.356	223.67	0.295	235.33	3.068	247.00	0.275	258.67	0.009	270.33	0.000
188.75	2.818	200.42	0.412	212.08	2.329	223.75	0.304	235.42	3.040	247.08	0.268	258.75	0.009	270.42	0.000
188.83	2.782	200.50	0.424	212.17	2.303	223.83	0.314	235.50	3.013	247.17	0.262	258.83	0.009	270.50	0.000
188.92	2.747	200.58	0.438	212.25	2.276	223.92	0.325	235.58	2.984	247.25	0.255	258.92	0.008	270.58	0.000
189.00	2.712	200.67	0.452	212.33	2.250	224.00	0.337	235.67	2.954	247.33	0.250	259.00	0.008	270.67	0.000
189.08	2.677	200.75	0.467	212.42	2.223	224.08	0.350	235.75	2.926	247.42	0.244	259.08	0.008	270.75	0.000
189.17	2.642	200.83	0.483	212.50	2.195	224.17	0.363	235.83	2.895	247.50	0.239	259.17	0.008	270.83	0.000
189.25	2.608	200.92	0.499	212.58	2.167	224.25	0.378	235.92	2.864	247.58	0.234	259.25	0.008	270.92	0.000
189.33	2.573	201.00	0.517	212.67	2.139	224.33	0.394	236.00	2.835	247.67	0.230	259.33	0.007	271.00	0.000
189.42	2.539	201.08	0.535	212.75	2.111	224.42	0.411	236.08	2.805	247.75	0.226	259.42	0.007	271.08	0.000
189.50	2.505	201.17	0.554	212.83	2.083	224.50	0.429	236.17	2.774	247.83	0.221	259.50	0.007	271.17	0.000
189.58	2.470	201.25	0.574	212.92	2.056	224.58	0.446	236.25	2.743	247.92	0.217	259.58	0.007	271.25	0.000
189.67	2.436	201.33	0.595	213.00	2.029	224.67	0.464	236.33	2.712	248.00	0.213	259.67	0.007	271.33	0.000
189.75	2.401	201.42	0.618	213.08	2.002	224.75	0.483	236.42	2.680	248.08	0.209	259.75	0.006	271.42	0.000
189.83	2.367	201.50	0.641	213.17	1.975	224.83	0.502	236.50	2.649	248.17	0.205	259.83	0.006	271.50	0.000
189.92	2.334	201.58	0.665	213.25	1.948	224.92	0.522	236.58	2.617	248.25	0.202	259.92	0.006	271.58	0.000
190.00	2.300	201.67	0.690	213.33	1.921	225.00	0.544	236.67	2.586	248.33	0.198	260.00	0.006	271.67	0.000
190.08	2.267	201.75	0.716	213.42	1.894	225.08	0.567	236.75	2.554	248.42	0.195	260.08	0.006	271.75	0.000
190.17	2.234	201.83	0.743	213.50	1.865	225.17	0.591	236.83	2.522	248.50	0.191	260.17	0.006	271.83	0.000
190.25	2.200	201.92	0.770	213.58	1.837	225.25	0.617	236.92	2.490	248.58	0.188	260.25	0.005	271.92	0.000
190.33	2.167	202.00	0.797	213.67	1.808	225.33	0.644	237.00	2.458	248.67	0.184	260.33	0.005	272.00	0.000
190.42	2.133	202.08	0.826	213.75	1.779	225.42	0.673	237.08	2.426	248.75	0.181	260.42	0.005	272.08	0.000
190.50	2.099	202.17	0.854	213.83	1.750	225.50	0.702	237.17	2.395	248.83	0.178	260.50	0.005	272.17	0.000
190.58	2.065	202.25	0.882	213.92	1.722	225.58	0.733	237.25	2.363	248.92	0.175	260.58	0.005	272.25	0.000
190.67	2.031	202.33	0.909	214.00	1.694	225.67	0.766	237.33	2.331	249.00	0.171	260.67	0.005	272.33	0.000
190.75	1.998	202.42	0.938	214.08	1.667	225.75	0.799	237.42	2.300	249.08	0.168	260.75	0.005	272.42	0.000
190.83	1.965	202.50	0.966	214.17	1.641	225.83	0.833	237.50	2.268	249.17	0.165	260.83	0.004	272.50	0.000
190.92	1.933	202.58	0.995	214.25	1.615	225.92	0.868	237.58	2.236	249.25	0.162	260.92	0.004	272.58	0.000
191.00	1.902	202.67	1.025	214.33	1.590	226.00	0.902	237.67	2.205	249.33	0.159	261.00	0.004	272.67	0.000
191.08	1.871	202.75	1.056	214.42	1.565	226.08	0.935	237.75	2.173	249.42	0.156	261.08	0.004	272.75	0.000
191.17	1.841	202.83	1.087	214.50	1.540	226.17	0.970	237.83	2.141	249.50	0.153	261.17	0.004	272.83	0.000
191.25	1.810	202.92	1.119	214.58	1.516	226.25	1.005	237.92	2.109	249.58	0.150	261.25	0.004	272.92	0.000
191.33	1.777	203.00	1.152	214.67	1.490	226.33	1.039	238.00	2.076	249.67	0.147	261.33	0.004	273.00	0.000
191.42	1.745	203.08	1.185	214.75	1.466	226.42	1.075	238.08	2.044	249.75	0.145	261.42	0.004	273.08	0.000
191.50	1.713	203.17	1.219	214.83	1.441	226.50	1.112	238.17	2.012	249.83	0.142	261.50	0.004	273.17	0.000
191.58	1.680	203.25	1.254	214.92	1.416	226.58	1.150	238.25	1.981	249.92	0.139	261.58	0.003	273.25	0.000
191.67	1.648	203.33	1.289	215.00	1.392	226.67	1.190	238.33	1.951	250.00	0.137	261.67	0.003	273.33	0.000
191.75	1.616	203.42	1.325	215.08	1.368	226.75	1.230	238.42	1.920	250.08	0.134	261.75	0.003	273.42	0.000
191.83	1.586	203.50	1.362	215.17	1.345	226.83	1.271	238.50	1.891	250.17	0.131	261.83	0.003	273.50	0.000
191.92	1.556	203.58	1.397	215.25	1.323	226.92	1.313	238.58	1.861	250.25	0.129	261.92	0.003	273.58	0.000
192.00	1.527	203.67	1.432	215.33	1.301	227.00	1.355	238.67	1.831	250.33	0.126	262.00	0.003	273.67	0.000
192.08	1.498	203.75	1.466	215.42	1.279	227.08	1.398	238.75	1.801	250.42	0.124	262.08	0.003	273.75	0.000
192.17	1.469	203.83	1.500	215.50	1.258	227.17	1.439	238.83	1.770	250.50	0.121	262.17	0.003	273.83	0.000
192.25	1.441	203.92	1.532	215.58	1.238	227.25	1.479	238.92	1.738	250.58	0.119	262.25	0.003	273.92	0.000
192.33	1.414	204.00	1.565	215.67	1.217	227.33	1.520	239.00	1.706	250.67	0.116	262.33	0.003	274.00	0.000
192.42	1.387	204.08	1.598	215.75	1.198	227.42	1.559	239.08	1.675	250.75	0.114	262.42	0.003	274.08	0.000
192.50	1.361	204.17	1.632	215.83	1.178	227.50	1.599	239.17	1.644	250.83	0.112	262.50	0.003	274.17	0.000
192.58	1.335	204.25	1.666	215.92	1.159	227.58	1.640	239.25	1.615	250.92	0.109	262.58	0.002	274.25	0.000
192.67	1.310	204.33	1.700	216.00	1.141	227.67	1.681	239.33	1.586	251.00	0.107	262.67	0.002	274.33	0.000
192.75	1.286	204.42	1.734	216.08	1.122	227.75	1.723	239.42	1.558	251.08	0.104	262.75	0.002	274.42	0.000
192.83	1.263	204.50	1.769	216.17	1.104	227.83	1.766	239.50	1.531	251.17	0.102	262.83	0.002	274.50	0.000
192.92	1.240	204.58	1.803	216.25	1.087	227.92	1.809	239.58	1.503	251.25	0.100	262.92	0.002	274.58	0.000
193.00	1.218	204.67	1.838	216.33	1.069	228.00	1.852	239.67	1.476	251.33	0.098	263.00	0.002	274.67	0.000
193.08	1.197	204.75	1.873	216.42	1.051	228.08	1.896	239.75	1.449	251.42	0.096	263.08	0.002	274.75	0.000
193.17	1.176	204.83	1.908	216.50	1.034	228.17	1.940	239.83	1.422	251.50	0.094	263.17	0.002	274.83	0.000
193.25	1.155	204.92	1.943	216.58	1.017	228.25	1.985	239.92	1.396	251.58	0.092	263.25	0.002	274.92	0.000
193.33	1.135	205.00	1.978	216.67	0.999	228.33	2.029	240.00	1.371	251.67	0.090	263.33	0.002	275.00	0.000
193.42	1.115	205.08	2.011	216.75	0.981	228.42	2.071	240.08	1.346	251.75	0.088	263.42	0.002	275.08	0.000
193.50	1.096	205.17	2.044	216.83	0.963	228.50	2.113	240.17	1.321	251.83	0.086	263.50	0.002	275.17	0.000
193.58	1.077	205.25	2.076	216.92	0.945	228.58	2.155	240.25	1.298	251.92	0.084	263.58	0.002	275.25	0.000
193.67	1.059	205.33	2.107	217.00	0.928	228.67	2.196	240.33	1.275	252.00	0.082	263.67	0.002	275.33	0.000
193.75	1.040	205.42	2.138	217.08	0.910	228.75	2.237	240.42	1.252	252.08	0.080	263.75	0.002	275.42	0.000
193.83	1.022	205.50	2.169	217.17	0.893	228.83	2.278	240.50	1.231	252.17	0.079	263.83	0.002	275.50	0.000
193.92	1.004	205.58	2.199	217.25	0.877	228.92	2.318	240.58	1.209	252.25	0.077	263.92	0.002	275.58	0.000
194.00	0.985	205.67	2.229	217.33	0.861	229.00	2.358	240.67	1.189	252.33	0.076	264.00	0.002	275.67	0.000
194.08	0.966	205.75	2.259	217.42	0.846	229.08	2.398	240.75	1.168	252.42	0.074	264.08	0.001	275.75	0.000
194.17	0.947	205.83	2.288	217.50	0.831	229.17	2.439	240.83	1.149	252.50	0.072	264.17	0.001	275.83	0.000
194.25	0.928	205.92	2.318	217.58	0.816	229.25	2.479	240.92	1.129	252.58	0.071	264.25	0.001	275.92	0.000
194.33	0.909	206.00	2.346	217.67	0.801	229.33	2.518	241.00	1.110	252.67	0.069	264.33	0.001	276.00	0.000
194.42	0.891	206.08	2.375	217.75	0.787	229.42	2.557	241.08	1.092	252.75	0.074	264.42	0.001	276.08	0.000
194.50	0.874	206.17	2.403	217.83	0.773	229.50	2.595	241.17	1.073	252.83	0.066	264.50	0.001	276.17	0.000
194.58	0.857	206.25	2.431	217.92	0.759	229.58	2.633	241.25	1.055	252.92	0.065	264.58	0.001	276.25	0.000
194.67	0.841	206.33	2.457	218.00	0.745	229.67	2.670	241.33	1.037	253.00	0.064	264.67	0.001	276.33	0.000
194.75	0.825	206.42	2.483	218.08	0.732	229.75	2.704	241.42	1.019	253.08	0.062	264.75	0.001	276.42	0.000
194.83	0.810	206.50	2.509	218.17	0.719	229.83	2.736	241.50	1.001	253.17	0.061	264.83	0.001	276.50	0.000
194.92	0.794	206.58	2.533	218.25	0.707	229.92	2.766	241.58	0.982	253.25	0.059	264.92	0.001	276.58	0.000
195.00	0.779	206.67	2.556	218.33	0.694	230.00	2.795	241.67	0.963	253.33	0.058	265.00	0.001	276.67	0.000
195.08	0.765	206.75	2.578	218.42	0.682	230.08	2.823	241.75	0.945	253.42	0.057	265.08	0.001	276.75	0.000
195.17	0.750	206.83	2.598	218.50	0.670	230.17	2.851	241.83	0.926	253.50	0.055	265.17	0.001	276.83	0.000
195.25	0.737	206.92	2.617	218.58	0.658	230.25	2.879	241.92	0.908	253.58	0.054	265.25	0.001	276.92	0.000
195.33	0.723	207.00	2.635	218.67	0.647	230.33	2.907	242.00	0.891	253.67	0.053	265.33	0.001	277.00	0.000
195.42	0.710	207.08	2.651	218.75	0.635	230.42	2.935	242.08	0.874	253.75	0.051	265.42	0.001	277.08	0.000
195.50	0.697	207.17	2.667	218.83	0.624	230.50	2.963	242.17	0.857	253.83	0.050	265.50	0.001	277.17	0.000
195.58	0.684	207.25	2.683	218.92	0.613	230.58	2.990	242.25	0.841	253.92	0.049	265.58	0.001	277.25	0.000
195.67	0.672	207.33	2.698	219.00	0.601	230.67	3.017	242.33	0.826	254.00	0.047	265.67	0.001	277.33	0.000
195.75	0.659	207.42	2.713	219.08	0.589	230.75	3.043	242.42	0.810	254.08	0.046	265.75	0.001	277.42	0.000
195.83	0.647	207.50	2.727	219.17	0.577	230.83	3.069	242.50	0.795	254.17	0.045	265.83	0.001	277.50	0.000
195.92	0.636	207.58	2.741	219.25	0.565	230.92	3.094	242.58	0.781	254.25	0.044	265.92	0.001	277.58	0.000
196.00	0.624	207.67	2.755	219.33	0.554	231.00	3.118	242.67	0.766	254.33	0.042	266.00	0.001	277.67	0.000
196.08	0.612	207.75	2.768	219.42	0.542	231.08	3.142	242.75	0.752	254.42	0.041	266.08	0.001	277.75	0.000
196.17	0.600	207.83	2.781	219.50	0.531	231.17	3.165	242.83	0.738	254.50	0.040	266.17	0.001	277.83	0.000
196.25	0.588	207.92	2.793	219.58	0.521	231.25	3.187	242.92	0.725	254.58	0.039	266.25	0.001	277.92	0.000
196.33	0.575	208.00	2.805	219.67	0.511	231.33	3.208	243.00	0.712	254.67	0.038	266.33	0.001	278.00	0.000
196.42	0.563	208.08	2.816	219.75	0.501	231.42	3.229	243.08	0.699	254.75	0.037	266.42	0.001	278.08	0.000
196.50	0.551	208.17	2.826	219.83	0.491	231.50	3.249	243.17	0.686	254.83	0.036	266.50	0.001	278.17	0.000
196.58	0.539	208.25	2.836	219.92	0.482	231.58	3.269	243.25	0.674	254.92	0.035	266.58	0.001	278.25	0.000
196.67	0.527	208.33	2.844	220.00	0.473	231.67	3.286	243.33	0.662	255.00	0.034	266.67	0.001	278.33	0.000
196.75	0.516	208.42	2.852	220.08	0.464	231.75	3.302	243.42	0.650	255.08	0.033	266.75	0.001	278.42	0.000
196.83	0.506	208.50	2.858	220.17	0.456	231.83	3.318	243.50	0.638	255.17	0.032	266.83	0.001	278.50	0.000
196.92	0.496	208.58	2.864	220.25	0.447	231.92	3.334	243.58	0.627	255.25	0.031	266.92	0.001	278.58	0.000
197.00	0.486	208.67	2.869	220.33	0.439	232.00	3.348	243.67	0.615	255.33	0.030	267.00	0.001	278.67	0.000
197.08	0.477	208.75	2.873	220.42	0.430	232.08	3.363	243.75	0.604	255.42	0.029	267.08	0.001	278.75	0.000
197.17	0.467	208.83	2.876	220.50	0.422	232.17	3.376	243.83	0.591	255.50	0.029	267.17	0.000	278.83	0.000
197.25	0.458	208.92	2.878	220.58	0.413	232.25	3.388	243.92	0.579	255.58	0.028	267.25	0.000	278.92	0.000
197.33	0.449	209.00	2.879	220.67	0.405	232.33	3.399	244.00	0.567	255.67	0.027	267.33	0.000	279.00	0.000
197.42	0.440	209.08	2.880	220.75	0.397	232.42	3.409	244.08	0.555	255.75	0.026	267.42	0.000	279.08	0.000
197.50	0.432	209.17	2.878	220.83	0.390	232.50	3.418	244.17	0.543	255.83	0.025	267.50	0.000	279.17	0.000
197.58	0.423	209.25	2.876	220.92	0.382	232.58	3.425	244.25	0.531	255.92	0.025	267.58	0.000	279.25	0.000
197.67	0.415	209.33	2.873	221.00	0.374	232.67	3.431	244.33	0.520	256.00	0.024	267.67	0.000	279.33	0.000
197.75	0.407	209.42	2.868	221.08	0.367	232.75	3.436	244.42	0.510	256.08	0.023	267.75	0.000	279.42	0.000
197.83	0.398	209.50	2.864	221.17	0.360	232.83	3.441	244.50	0.500	256.17	0.023	267.83	0.000	279.50	0.000
197.92	0.390	209.58	2.860	221.25	0.353	232.92	3.444	244.58	0.490	256.25	0.022	267.92	0.000	279.58	0.000
198.00	0.383	209.67	2.853	221.33	0.347	233.00	3.447	244.67	0.481	256.33	0.021	268.00	0.000	279.67	0.000
198.08	0.375	209.75	2.845	221.42	0.340	233.08	3.449	244.75	0.471	256.42	0.021	268.08	0.000	279.75	0.000
198.17	0.368	209.83	2.837	221.50	0.334	233.17	3.450	244.83	0.462	256.50	0.020	268.17	0.000	279.83	0.000
198.25	0.361	209.92	2.829	221.58	0.328	233.25	3.450	244.92	0.454	256.58	0.020	268.25	0.000	279.92	0.000

APPENDIX I

Van Gaal Hydrographs (1:100 Year Summer)

VG-7 (VG SUMMER)



Hydrograph Statistics:

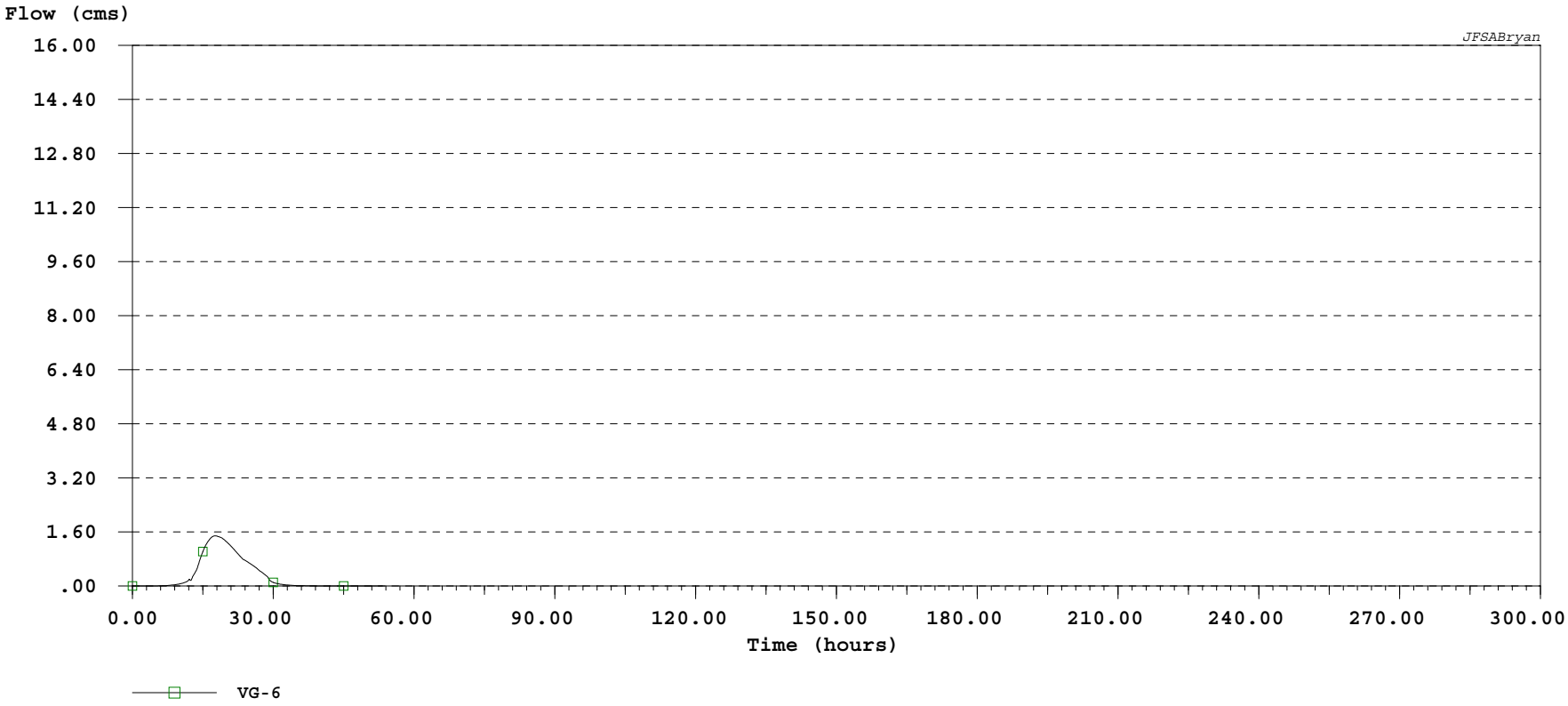
Legend	Filename & Comment	Time Step (min)	Drainage Area (ha)	Peak Flow (cms)	Time to Peak (hrs)	Runoff Volume (mm)	Runoff Volume (cu.m)	Duration of flow (hrs)	Average flow (cms)
——○——	H-VG-7.100 : VG-7	5.00	39.20	0.900	15.083	63.92	2.506E+04	38.750	0.180

Hydrograph Table:

Hydrograph Filename : Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG-7.100
Comment in file : VG-7

# TIME hrs	FLOW # cms	# TIME hrs	FLOW # cms	# TIME hrs	FLOW # cms	# TIME hrs	FLOW # cms	# TIME hrs	FLOW # cms	# TIME hrs	FLOW # cms	# TIME hrs	FLOW # cms	# TIME hrs	FLOW # cms	# TIME hrs	FLOW # cms
0.00	0.000	4.33	0.000	8.67	0.019	13.00	0.478	17.33	0.690	21.67	0.267	26.00	0.122	30.33	0.023	34.67	0.002
0.08	0.000	4.42	0.000	8.75	0.020	13.08	0.511	17.42	0.679	21.75	0.263	26.08	0.119	30.42	0.022	34.75	0.002
0.17	0.000	4.50	0.000	8.83	0.021	13.17	0.543	17.50	0.667	21.83	0.258	26.17	0.117	30.50	0.022	34.83	0.002
0.25	0.000	4.58	0.001	8.92	0.022	13.25	0.574	17.58	0.656	21.92	0.254	26.25	0.114	30.58	0.021	34.92	0.002
0.33	0.000	4.67	0.001	9.00	0.023	13.33	0.604	17.67	0.645	22.00	0.250	26.33	0.111	30.67	0.020	35.00	0.002
0.42	0.000	4.75	0.001	9.08	0.024	13.42	0.632	17.75	0.633	22.08	0.246	26.42	0.109	30.75	0.019	35.08	0.002
0.50	0.000	4.83	0.001	9.17	0.025	13.50	0.660	17.83	0.622	22.17	0.242	26.50	0.106	30.83	0.018	35.17	0.002
0.58	0.000	4.92	0.001	9.25	0.026	13.58	0.686	17.92	0.611	22.25	0.238	26.58	0.103	30.92	0.018	35.25	0.002
0.67	0.000	5.00	0.001	9.33	0.027	13.67	0.710	18.00	0.599	22.33	0.234	26.67	0.101	31.00	0.017	35.33	0.002
0.75	0.000	5.08	0.001	9.42	0.028	13.75	0.733	18.08	0.588	22.42	0.231	26.75	0.098	31.08	0.016	35.42	0.002
0.83	0.000	5.17	0.001	9.50	0.029	13.83	0.755	18.17	0.578	22.50	0.227	26.83	0.095	31.17	0.016	35.50	0.001
0.92	0.000	5.25	0.001	9.58	0.030	13.92	0.774	18.25	0.567	22.58	0.224	26.92	0.091	31.25	0.015	35.58	0.001
1.00	0.000	5.33	0.002	9.67	0.031	14.00	0.793	18.33	0.556	22.67	0.220	27.00	0.088	31.33	0.015	35.67	0.001
1.08	0.000	5.42	0.002	9.75	0.033	14.08	0.810	18.42	0.546	22.75	0.217	27.08	0.086	31.42	0.014	35.75	0.001
1.17	0.000	5.50	0.002	9.83	0.034	14.17	0.825	18.50	0.535	22.83	0.214	27.17	0.083	31.50	0.013	35.83	0.001
1.25	0.000	5.58	0.002	9.92	0.035	14.25	0.839	18.58	0.525	22.92	0.211	27.25	0.081	31.58	0.013	35.92	0.001
1.33	0.000	5.67	0.002	10.00	0.037	14.33	0.851	18.67	0.515	23.00	0.208	27.33	0.079	31.67	0.012	36.00	0.001
1.42	0.000	5.75	0.003	10.08	0.038	14.42	0.862	18.75	0.505	23.08	0.205	27.42	0.076	31.75	0.012	36.08	0.001
1.50	0.000	5.83	0.003	10.17	0.040	14.50	0.871	18.83	0.495	23.17	0.202	27.50	0.074	31.83	0.011	36.17	0.001
1.58	0.000	5.92	0.003	10.25	0.041	14.58	0.879	18.92	0.486	23.25	0.199	27.58	0.072	31.92	0.011	36.25	0.001
1.67	0.000	6.00	0.003	10.33	0.043	14.67	0.886	19.00	0.476	23.33	0.196	27.67	0.070	32.00	0.010	36.33	0.001
1.75	0.000	6.08	0.004	10.42	0.044	14.75	0.891	19.08	0.467	23.42	0.194	27.75	0.068	32.08	0.010	36.42	0.001
1.83	0.000	6.17	0.004	10.50	0.046	14.83	0.895	19.17	0.458	23.50	0.191	27.83	0.066	32.17	0.010	36.50	0.001
1.92	0.000	6.25	0.004	10.58	0.048	14.92	0.898	19.25	0.449	23.58	0.188	27.92	0.064	32.25	0.009	36.58	0.001
2.00	0.000	6.33	0.004	10.67	0.050	15.00	0.900	19.33	0.441	23.67	0.186	28.00	0.062	32.33	0.009	36.67	0.001
2.08	0.000	6.42	0.005	10.75	0.052	15.08	0.900	19.42	0.432	23.75	0.184	28.08	0.060	32.42	0.008	36.75	0.001
2.17	0.000	6.50	0.005	10.83	0.054	15.17	0.900	19.50	0.424	23.83	0.181	28.17	0.058	32.50	0.008	36.83	0.001
2.25	0.000	6.58	0.005	10.92	0.056	15.25	0.899	19.58	0.416	23.92	0.179	28.25	0.056	32.58	0.008	36.92	0.001
2.33	0.000	6.67	0.006	11.00	0.059	15.33	0.896	19.67	0.408	24.00	0.177	28.33	0.055	32.67	0.007	37.00	0.001
2.42	0.000	6.75	0.006	11.08	0.061	15.42	0.893	19.75	0.401	24.08	0.175	28.42	0.053	32.75	0.007	37.08	0.001
2.50	0.000	6.83	0.007	11.17	0.064	15.50	0.889	19.83	0.393	24.17	0.173	28.50	0.051	32.83	0.007	37.17	0.000
2.58	0.000	6.92	0.007	11.25	0.067	15.58	0.885	19.92	0.386	24.25	0.171	28.58	0.050	32.92	0.007	37.25	0.000
2.67	0.000	7.00	0.007	11.33	0.070	15.67	0.879	20.00	0.379	24.33	0.169	28.67	0.048	33.00	0.006	37.33	0.000
2.75	0.000	7.08	0.008	11.42	0.074	15.75	0.874	20.08	0.372	24.42	0.167	28.75	0.046	33.08	0.006	37.42	0.000
2.83	0.000	7.17	0.008	11.50	0.077	15.83	0.867	20.17	0.365	24.50	0.165	28.83	0.045	33.17	0.006	37.50	0.000
2.92	0.000	7.25	0.009	11.58	0.081	15.92	0.860	20.25	0.359	24.58	0.163	28.92	0.043	33.25	0.005	37.58	0.000
3.00	0.000	7.33	0.009	11.67	0.086	16.00	0.852	20.33	0.352	24.67	0.160	29.00	0.042	33.33	0.005	37.67	0.000
3.08	0.000	7.42	0.010	11.75	0.092	16.08	0.845	20.42	0.346	24.75	0.158	29.08	0.040	33.42	0.005	37.75	0.000
3.17	0.000	7.50	0.010	11.83	0.099	16.17	0.836	20.50	0.340	24.83	0.156	29.17	0.039	33.50	0.005	37.83	0.000
3.25	0.000	7.58	0.011	11.92	0.109	16.25	0.827	20.58	0.334	24.92	0.154	29.25	0.038	33.58	0.005	37.92	0.000
3.33	0.000	7.67	0.011	12.00	0.124	16.33	0.818	20.67	0.328	25.00	0.152	29.33	0.036	33.67	0.004	38.00	0.000
3.42	0.000	7.75	0.012	12.08	0.142	16.42	0.809	20.75	0.323	25.08	0.149	29.42	0.035	33.75	0.004	38.08	0.000
3.50	0.000	7.83	0.012	12.17	0.164	16.50	0.799	20.83	0.317	25.17	0.147	29.50	0.034	33.83	0.004	38.17	0.000
3.58	0.000	7.92	0.013	12.25	0.189	16.58	0.789	20.92	0.311	25.25	0.145	29.58	0.033	33.92	0.004	38.25	0.000
3.67	0.000	8.00	0.014	12.33	0.217	16.67	0.779	21.00	0.306	25.33	0.142	29.67	0.032	34.00	0.004	38.33	0.000
3.75	0.000	8.08	0.014	12.42	0.246	16.75	0.768	21.08	0.301	25.42	0.140	29.75	0.030	34.08	0.003	38.42	0.000
3.83	0.000	8.17	0.015	12.50	0.278	16.83	0.757	21.17	0.296	25.50	0.137	29.83	0.029	34.17	0.003	38.50	0.000
3.92	0.000	8.25	0.016	12.58	0.310	16.92	0.746	21.25	0.291	25.58	0.135	29.92	0.028	34.25	0.003	38.58	0.000
4.00	0.000	8.33	0.016	12.67	0.344	17.00	0.735	21.33	0.286	25.67	0.132	30.00	0.027	34.33	0.003	38.67	0.000
4.08	0.000	8.42	0.017	12.75	0.377	17.08	0.724	21.42	0.281	25.75	0.130	30.08	0.026	34.42	0.003	38.75	0.000
4.17	0.000	8.50	0.018	12.83	0.411	17.17	0.713	21.50	0.276	25.83	0.127	30.17	0.025	34.50	0.003	38.83	0.000
4.25	0.000	8.58	0.019	12.92	0.445	17.25	0.702	21.58	0.272	25.92	0.124	30.25	0.024	34.58	0.003	38.92	0.000

VG-6 (VG SUMMER)



Hydrograph Statistics:

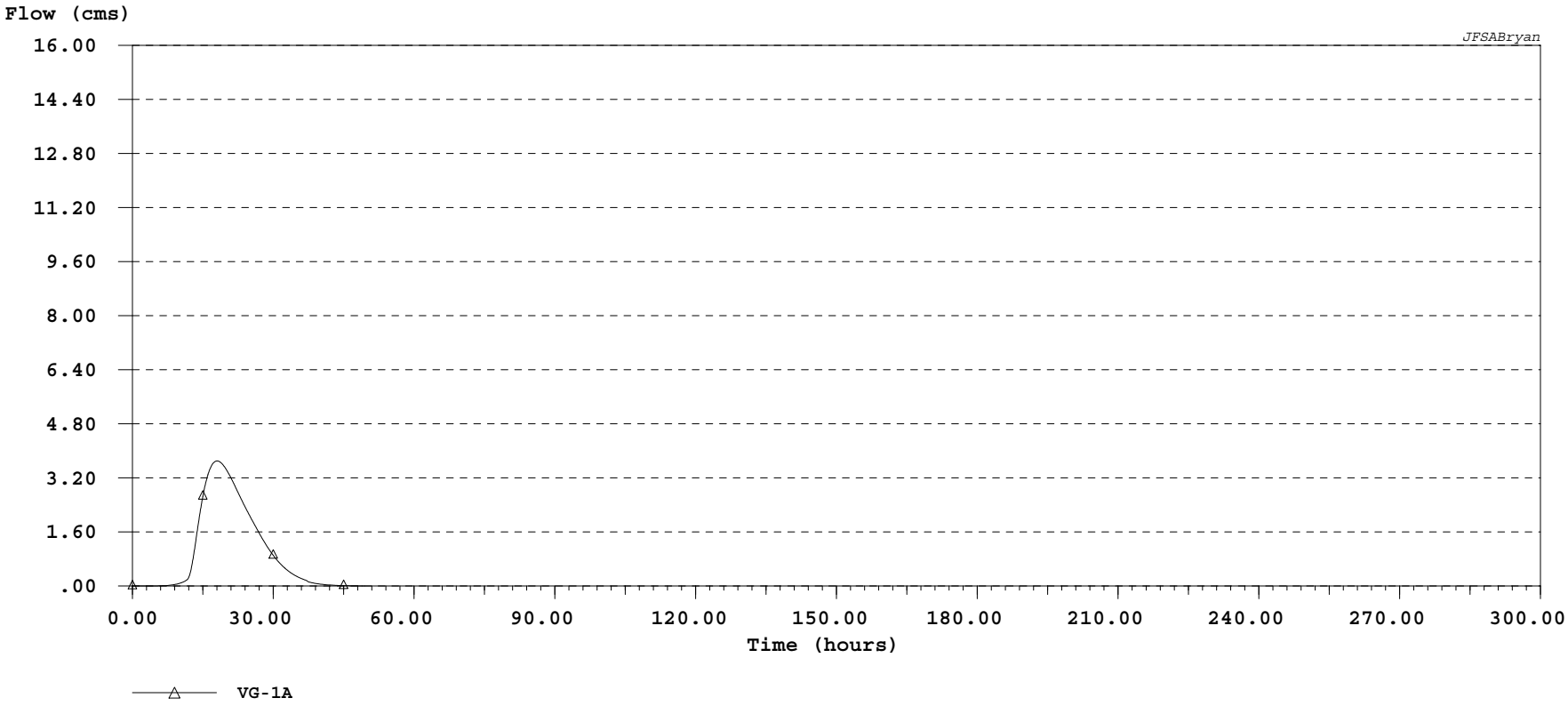
Legend	Filename & Comment	Time Step (min)	Drainage Area (ha)	Peak Flow (cms)	Time to Peak (hrs)	Runoff Volume (mm)	Runoff Volume (cu.m)	Duration of flow (hrs)	Average flow (cms)
	H-VG-6.100 : VG-6	5.00	94.20	1.483	17.667	60.00	5.652E+04	53.250	0.295

Hydrograph Table:

Hydrograph Filename : Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG-6.100
Comment in file : VG-6

# TIME hrs	FLOW # cms	TIME hrs	FLOW # cms	TIME hrs	FLOW # cms	TIME hrs	FLOW # cms	TIME hrs	FLOW # cms	TIME hrs	FLOW # cms	TIME hrs	FLOW # cms	TIME hrs	FLOW # cms	TIME hrs	FLOW # cms	TIME hrs	FLOW # cms
0.00	0.000	5.33	0.001	10.67	0.082	16.00	1.296	21.33	1.128	26.67	0.503	32.00	0.044	37.33	0.004	42.67	0.000	48.00	0.000
0.08	0.000	5.42	0.002	10.75	0.086	16.08	1.313	21.42	1.115	26.75	0.489	32.08	0.043	37.42	0.004	42.75	0.000	48.08	0.000
0.17	0.000	5.50	0.002	10.83	0.089	16.17	1.329	21.50	1.103	26.83	0.480	32.17	0.041	37.50	0.004	42.83	0.000	48.17	0.000
0.25	0.000	5.58	0.002	10.92	0.093	16.25	1.344	21.58	1.090	26.92	0.470	32.25	0.040	37.58	0.003	42.92	0.000	48.25	0.000
0.33	0.000	5.67	0.003	11.00	0.097	16.33	1.360	21.67	1.077	27.00	0.459	32.33	0.038	37.67	0.003	43.00	0.000	48.33	0.000
0.42	0.000	5.75	0.003	11.08	0.101	16.42	1.376	21.75	1.064	27.08	0.452	32.42	0.037	37.75	0.003	43.08	0.000	48.42	0.000
0.50	0.000	5.83	0.003	11.17	0.105	16.50	1.391	21.83	1.052	27.17	0.444	32.50	0.036	37.83	0.003	43.17	0.000	48.50	0.000
0.58	0.000	5.92	0.003	11.25	0.110	16.58	1.404	21.92	1.039	27.25	0.435	32.58	0.035	37.92	0.003	43.25	0.000	48.58	0.000
0.67	0.000	6.00	0.004	11.33	0.115	16.67	1.417	22.00	1.026	27.33	0.427	32.67	0.033	38.00	0.003	43.33	0.000	48.67	0.000
0.75	0.000	6.08	0.004	11.42	0.120	16.75	1.428	22.08	1.013	27.42	0.422	32.75	0.032	38.08	0.003	43.42	0.000	48.75	0.000
0.83	0.000	6.17	0.005	11.50	0.125	16.83	1.438	22.17	1.000	27.50	0.415	32.83	0.031	38.17	0.003	43.50	0.000	48.83	0.000
0.92	0.000	6.25	0.005	11.58	0.131	16.92	1.447	22.25	0.986	27.58	0.403	32.92	0.030	38.25	0.003	43.58	0.000	48.92	0.000
1.00	0.000	6.33	0.006	11.67	0.138	17.00	1.455	22.33	0.973	27.67	0.396	33.00	0.029	38.33	0.002	43.67	0.000	49.00	0.000
1.08	0.000	6.42	0.006	11.75	0.145	17.08	1.462	22.42	0.961	27.75	0.389	33.08	0.028	38.42	0.002	43.75	0.000	49.08	0.000
1.17	0.000	6.50	0.007	11.83	0.153	17.17	1.468	22.50	0.948	27.83	0.379	33.17	0.027	38.50	0.002	43.83	0.000	49.17	0.000
1.25	0.000	6.58	0.007	11.92	0.164	17.25	1.473	22.58	0.935	27.92	0.368	33.25	0.026	38.58	0.002	43.92	0.000	49.25	0.000
1.33	0.000	6.67	0.008	12.00	0.178	17.33	1.477	22.67	0.922	28.00	0.358	33.33	0.025	38.67	0.002	44.00	0.000	49.33	0.000
1.42	0.000	6.75	0.008	12.08	0.195	17.42	1.479	22.75	0.909	28.08	0.350	33.42	0.024	38.75	0.002	44.08	0.000	49.42	0.000
1.50	0.000	6.83	0.009	12.17	0.195	17.50	1.481	22.83	0.896	28.17	0.340	33.50	0.024	38.83	0.002	44.17	0.000	49.50	0.000
1.58	0.000	6.92	0.010	12.25	0.178	17.58	1.482	22.92	0.884	28.25	0.334	33.58	0.023	38.92	0.002	44.25	0.000	49.58	0.000
1.67	0.000	7.00	0.010	12.33	0.168	17.67	1.483	23.00	0.871	28.33	0.326	33.67	0.022	39.00	0.002	44.33	0.000	49.67	0.000
1.75	0.000	7.08	0.011	12.42	0.165	17.75	1.482	23.08	0.859	28.42	0.313	33.75	0.021	39.08	0.002	44.42	0.000	49.75	0.000
1.83	0.000	7.17	0.012	12.50	0.170	17.83	1.481	23.17	0.846	28.50	0.302	33.83	0.020	39.17	0.002	44.50	0.000	49.83	0.000
1.92	0.000	7.25	0.013	12.58	0.188	17.92	1.478	23.25	0.834	28.58	0.294	33.92	0.020	39.25	0.002	44.58	0.000	49.92	0.000
2.00	0.000	7.33	0.013	12.67	0.217	18.00	1.476	23.33	0.822	28.67	0.287	34.00	0.019	39.33	0.001	44.67	0.000	50.00	0.000
2.08	0.000	7.42	0.014	12.75	0.246	18.08	1.472	23.42	0.810	28.75	0.276	34.08	0.018	39.42	0.001	44.75	0.000	50.08	0.000
2.17	0.000	7.50	0.015	12.83	0.276	18.17	1.468	23.50	0.798	28.83	0.262	34.17	0.018	39.50	0.001	44.83	0.000	50.17	0.000
2.25	0.000	7.58	0.016	12.92	0.298	18.25	1.463	23.58	0.789	28.92	0.244	34.25	0.017	39.58	0.001	44.92	0.000	50.25	0.000
2.33	0.000	7.67	0.017	13.00	0.317	18.33	1.459	23.67	0.783	29.00	0.222	34.33	0.016	39.67	0.001	45.00	0.000	50.33	0.000
2.42	0.000	7.75	0.018	13.08	0.336	18.42	1.456	23.75	0.777	29.08	0.203	34.42	0.016	39.75	0.001	45.08	0.000	50.42	0.000
2.50	0.000	7.83	0.019	13.17	0.356	18.50	1.453	23.83	0.771	29.17	0.187	34.50	0.015	39.83	0.001	45.17	0.000	50.50	0.000
2.58	0.000	7.92	0.020	13.25	0.376	18.58	1.450	23.92	0.765	29.25	0.173	34.58	0.015	39.92	0.001	45.25	0.000	50.58	0.000
2.67	0.000	8.00	0.021	13.33	0.397	18.67	1.446	24.00	0.758	29.33	0.161	34.67	0.014	40.00	0.001	45.33	0.000	50.67	0.000
2.75	0.000	8.08	0.022	13.42	0.417	18.75	1.442	24.08	0.751	29.42	0.151	34.75	0.014	40.08	0.001	45.42	0.000	50.75	0.000
2.83	0.000	8.17	0.023	13.50	0.437	18.83	1.436	24.17	0.744	29.50	0.142	34.83	0.013	40.17	0.001	45.50	0.000	50.83	0.000
2.92	0.000	8.25	0.024	13.58	0.458	18.92	1.430	24.25	0.737	29.58	0.134	34.92	0.013	40.25	0.001	45.58	0.000	50.92	0.000
3.00	0.000	8.33	0.025	13.67	0.478	19.00	1.424	24.33	0.730	29.67	0.127	35.00	0.012	40.33	0.001	45.67	0.000	51.00	0.000
3.08	0.000	8.42	0.027	13.75	0.505	19.08	1.417	24.42	0.722	29.75	0.120	35.08	0.012	40.42	0.001	45.75	0.000	51.08	0.000
3.17	0.000	8.50	0.028	13.83	0.537	19.17	1.409	24.50	0.715	29.83	0.115	35.17	0.011	40.50	0.001	45.83	0.000	51.17	0.000
3.25	0.000	8.58	0.029	13.92	0.574	19.25	1.401	24.58	0.707	29.92	0.110	35.25	0.011	40.58	0.001	45.92	0.000	51.25	0.000
3.33	0.000	8.67	0.031	14.00	0.612	19.33	1.393	24.67	0.700	30.00	0.105	35.33	0.010	40.67	0.001	46.00	0.000	51.33	0.000
3.42	0.000	8.75	0.032	14.08	0.648	19.42	1.383	24.75	0.692	30.08	0.100	35.42	0.010	40.75	0.001	46.08	0.000	51.42	0.000
3.50	0.000	8.83	0.033	14.17	0.685	19.50	1.374	24.83	0.684	30.17	0.096	35.50	0.010	40.83	0.001	46.17	0.000	51.50	0.000
3.58	0.000	8.92	0.035	14.25	0.721	19.58	1.364	24.92	0.677	30.25	0.093	35.58	0.009	40.92	0.001	46.25	0.000	51.58	0.000
3.67	0.000	9.00	0.037	14.33	0.757	19.67	1.353	25.00	0.669	30.33	0.089	35.67	0.009	41.00	0.001	46.33	0.000	51.67	0.000
3.75	0.000	9.08	0.038	14.42	0.792	19.75	1.343	25.08	0.661	30.42	0.086	35.75	0.009	41.08	0.001	46.42	0.000	51.75	0.000
3.83	0.000	9.17	0.040	14.50	0.827	19.83	1.332	25.17	0.654	30.50	0.083	35.83	0.008	41.17	0.001	46.50	0.000	51.83	0.000
3.92	0.000	9.25	0.042	14.58	0.860	19.92	1.323	25.25	0.646	30.58	0.080	35.92	0.008	41.25	0.001	46.58	0.000	51.92	0.000
4.00	0.000	9.33	0.043	14.67	0.893	20.00	1.313	25.33	0.639	30.67	0.077	36.00	0.008	41.33	0.001	46.67	0.000	52.00	0.000
4.08	0.000	9.42	0.045	14.75	0.926	20.08	1.303	25.42	0.631	30.75	0.074	36.08	0.007	41.42	0.001	46.75	0.000	52.08	0.000
4.17	0.000	9.50	0.047	14.83	0.957	20.17	1.293	25.50	0.623	30.83	0.071	36.17	0.007	41.50	0.001	46.83	0.000	52.17	0.000
4.25	0.000	9.58	0.049	14.92	0.988	20.25	1.282	25.58	0.615	30.92	0.069	36.25	0.007	41.58	0.000	46.92	0.000	52.25	0.000
4.33	0.000	9.67	0.051	15.00	1.017	20.33	1.272	25.67	0.607	31.00	0.067	36.33	0.006	41.67	0.000	47.00	0.000	52.33	0.000
4.42	0.000	9.75	0.053	15.08	1.046	20.42	1.261	25.75	0.599	31.08	0.065	36.42	0.006	41.75	0.000	47.08	0.000	52.42	0.000
4.50	0.000	9.83	0.056	15.17	1.074	20.50	1.249	25.83	0.591	31.17	0.062	36.50	0.006	41.83	0.000	47.17	0.000	52.50	0.000
4.58	0.000	9.92	0.058	15.25	1.101	20.58	1.238	25.92	0.583	31.25	0.060	36.58	0.006	41.92	0.000	47.25	0.000	52.58	0.000
4.67	0.000	10.00	0.060	15.33	1.126	20.67	1.226	26.00	0.575	31.33	0.058	36.67	0.006	42.00	0.000	47.33	0.000	52.67	0.000
4.75	0.001	10.08	0.063	15.42	1.151	20.75	1.215	26.08	0.567	31.42	0.056	36.75	0.005	42.08	0.000	47.42	0.000	52.75	0.000
4.83	0.001	10.17	0.065	15.50	1.175	20.83	1.203	26.17	0.558	31.50	0.054	36.83	0.005	42.17	0.000	47.50	0.000	52.83	0.000
4.92	0.001	10.25	0.068	15.58	1.198	20.92	1.190	26.25	0.550	31.58	0.052	36.92	0.005	42.25	0.000	47.58	0.000	52.92	0.000
5.00	0.001	10.33	0.070	15.67	1.219	21.00	1.178	26.33	0.541	31.67	0.051	37.00	0.005	42.33	0.000	47.67	0.000	53.00	0.000
5.08	0.001	10.42	0.073	15.75	1.240	21.08	1.166	26.42	0.532	31.75	0.049	37.08	0.005	42.42	0.000	47.75	0.000	53.08	0.000
5.17	0.001	10.50	0.076	15.83	1.260	21.17	1.153	26.50	0.523	31.83	0.047	37.17	0.004	42.50	0.000	47.83	0.000	53.17	0.002
5.25	0.001	10.58	0.079	15.92	1.279	21.25	1.141	26.58	0.515	31.92	0.046	37.25	0.004	42.58	0.000	47.92	0.000	53.25	0.000

VG-1A (VG SUMMER)



Hydrograph Statistics:

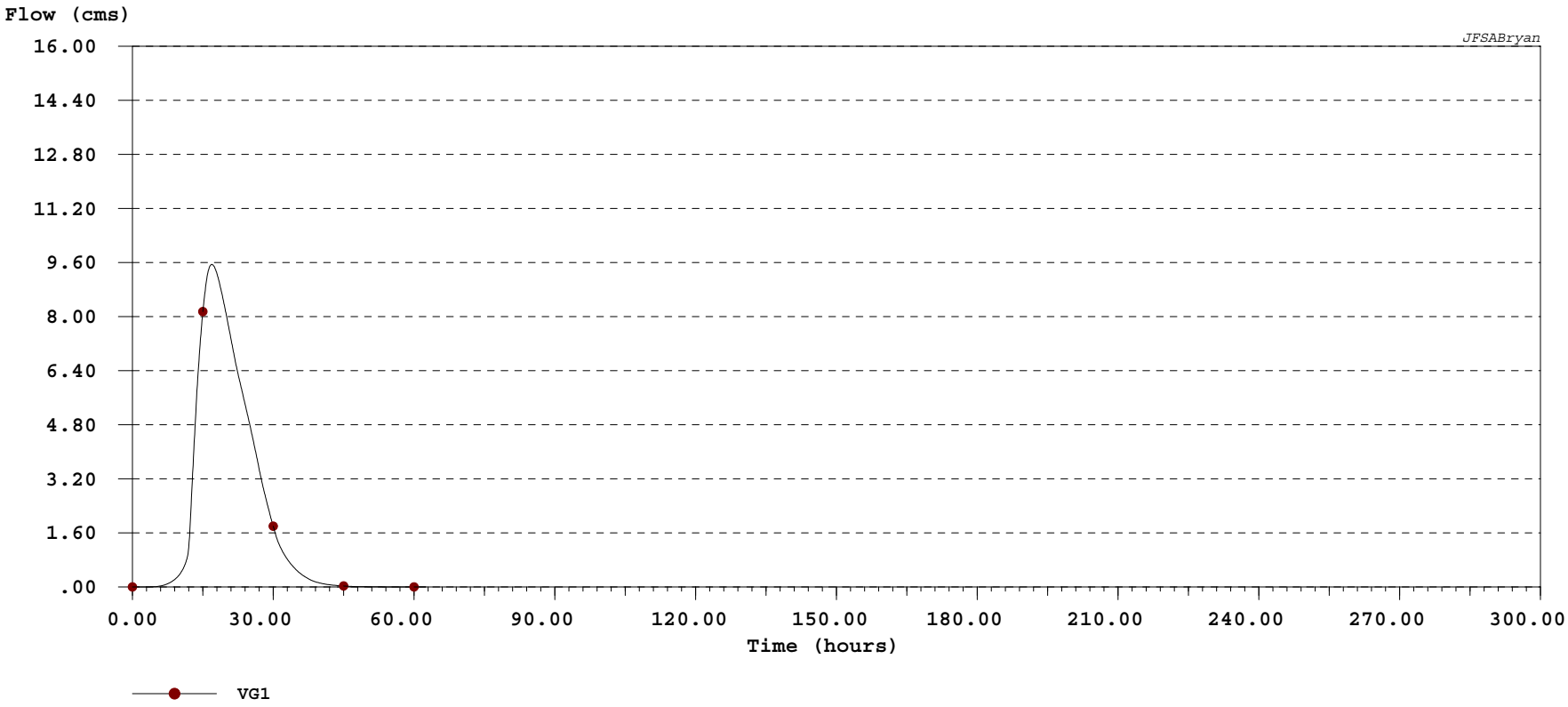
Legend	Filename & Comment	Time Step (min)	Drainage Area (ha)	Peak Flow (cms)	Time to Peak (hrs)	Runoff Volume (mm)	Runoff Volume (cu.m)	Duration of flow (hrs)	Average flow (cms)
△	H-VG-1A.100 : VG-1A	5.00	311.90	3.701	18.000	53.74	1.676E+05	49.417	0.942

Hydrograph Table:

Hydrograph Filename : Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG-1A.100
Comment in file : VG-1A

# TIME hrs	FLOW # cms #	TIME hrs	FLOW # cms #	TIME hrs	FLOW # cms #	TIME hrs	FLOW # cms #	TIME hrs	FLOW # cms #	TIME hrs	FLOW # cms #	TIME hrs	FLOW # cms #	TIME hrs	FLOW # cms #	TIME hrs	FLOW # cms #	TIME hrs	FLOW # cms #
0.00	0.000	4.92	0.001	9.83	0.070	14.75	2.461	19.67	3.515	24.58	2.184	29.50	1.002	34.42	0.331	39.33	0.068	44.25	0.013
0.08	0.000	5.00	0.001	9.92	0.073	14.83	2.527	19.75	3.498	24.67	2.163	29.58	0.986	34.50	0.324	39.42	0.067	44.33	0.012
0.17	0.000	5.08	0.001	10.00	0.076	14.92	2.591	19.83	3.481	24.75	2.141	29.67	0.969	34.58	0.317	39.50	0.065	44.42	0.012
0.25	0.000	5.17	0.001	10.08	0.080	15.00	2.653	19.92	3.463	24.83	2.119	29.75	0.953	34.67	0.310	39.58	0.063	44.50	0.012
0.33	0.000	5.25	0.001	10.17	0.083	15.08	2.713	20.00	3.445	24.92	2.097	29.83	0.938	34.75	0.304	39.67	0.062	44.58	0.011
0.42	0.000	5.33	0.001	10.25	0.087	15.17	2.771	20.08	3.426	25.00	2.076	29.92	0.922	34.83	0.298	39.75	0.060	44.67	0.011
0.50	0.000	5.42	0.002	10.33	0.091	15.25	2.828	20.17	3.407	25.08	2.054	30.00	0.906	34.92	0.291	39.83	0.059	44.75	0.010
0.58	0.000	5.50	0.002	10.42	0.095	15.33	2.883	20.25	3.387	25.17	2.032	30.08	0.891	35.00	0.285	39.92	0.057	44.83	0.010
0.67	0.000	5.58	0.002	10.50	0.099	15.42	2.936	20.33	3.367	25.25	2.011	30.17	0.876	35.08	0.279	40.00	0.056	44.92	0.010
0.75	0.000	5.67	0.002	10.58	0.104	15.50	2.987	20.42	3.347	25.33	1.989	30.25	0.861	35.17	0.273	40.08	0.054	45.00	0.009
0.83	0.000	5.75	0.003	10.67	0.109	15.58	3.037	20.50	3.326	25.42	1.967	30.33	0.846	35.25	0.268	40.17	0.053	45.08	0.009
0.92	0.000	5.83	0.003	10.75	0.114	15.67	3.084	20.58	3.305	25.50	1.946	30.42	0.832	35.33	0.262	40.25	0.051	45.17	0.009
1.00	0.000	5.92	0.003	10.83	0.119	15.75	3.130	20.67	3.283	25.58	1.924	30.50	0.817	35.42	0.256	40.33	0.050	45.25	0.008
1.08	0.000	6.00	0.004	10.92	0.124	15.83	3.173	20.75	3.262	25.67	1.903	30.58	0.803	35.50	0.251	40.42	0.049	45.33	0.008
1.17	0.000	6.08	0.004	11.00	0.130	15.92	3.215	20.83	3.240	25.75	1.881	30.67	0.789	35.58	0.245	40.50	0.047	45.42	0.008
1.25	0.000	6.17	0.005	11.08	0.136	16.00	3.255	20.92	3.218	25.83	1.860	30.75	0.775	35.67	0.240	40.58	0.046	45.50	0.007
1.33	0.000	6.25	0.005	11.17	0.142	16.08	3.294	21.00	3.195	25.92	1.838	30.83	0.762	35.75	0.235	40.67	0.045	45.58	0.007
1.42	0.000	6.33	0.006	11.25	0.149	16.17	3.330	21.08	3.173	26.00	1.817	30.92	0.748	35.83	0.230	40.75	0.044	45.67	0.007
1.50	0.000	6.42	0.006	11.33	0.156	16.25	3.365	21.17	3.150	26.08	1.796	31.00	0.735	35.92	0.225	40.83	0.042	45.75	0.007
1.58	0.000	6.50	0.007	11.42	0.163	16.33	3.397	21.25	3.127	26.17	1.774	31.08	0.722	36.00	0.220	40.92	0.041	45.83	0.006
1.67	0.000	6.58	0.007	11.50	0.171	16.42	3.428	21.33	3.103	26.25	1.753	31.17	0.709	36.08	0.215	41.00	0.040	45.92	0.006
1.75	0.000	6.67	0.008	11.58	0.180	16.50	3.457	21.42	3.080	26.33	1.732	31.25	0.696	36.17	0.210	41.08	0.039	46.00	0.006
1.83	0.000	6.75	0.008	11.67	0.190	16.58	3.485	21.50	3.056	26.42	1.711	31.33	0.683	36.25	0.205	41.17	0.038	46.08	0.006
1.92	0.000	6.83	0.009	11.75	0.201	16.67	3.510	21.58	3.033	26.50	1.690	31.42	0.671	36.33	0.201	41.25	0.037	46.17	0.006
2.00	0.000	6.92	0.010	11.83	0.214	16.75	3.534	21.67	3.009	26.58	1.669	31.50	0.659	36.42	0.196	41.33	0.036	46.25	0.005
2.08	0.000	7.00	0.010	11.92	0.231	16.83	3.556	21.75	2.985	26.67	1.648	31.58	0.647	36.50	0.192	41.42	0.035	46.33	0.005
2.17	0.000	7.08	0.011	12.00	0.253	16.92	3.577	21.83	2.961	26.75	1.627	31.67	0.635	36.58	0.187	41.50	0.034	46.42	0.005
2.25	0.000	7.17	0.012	12.08	0.281	17.00	3.595	21.92	2.936	26.83	1.606	31.75	0.623	36.67	0.183	41.58	0.033	46.50	0.005
2.33	0.000	7.25	0.013	12.17	0.315	17.08	3.612	22.00	2.912	26.92	1.585	31.83	0.611	36.75	0.179	41.67	0.032	46.58	0.004
2.42	0.000	7.33	0.014	12.25	0.354	17.17	3.628	22.08	2.888	27.00	1.565	31.92	0.600	36.83	0.174	41.75	0.031	46.67	0.004
2.50	0.000	7.42	0.015	12.33	0.397	17.25	3.642	22.17	2.864	27.08	1.544	32.00	0.589	36.92	0.170	41.83	0.030	46.75	0.004
2.58	0.000	7.50	0.016	12.42	0.446	17.33	3.654	22.25	2.839	27.17	1.524	32.08	0.578	37.00	0.166	41.92	0.030	46.83	0.004
2.67	0.000	7.58	0.017	12.50	0.498	17.42	3.665	22.33	2.815	27.25	1.503	32.17	0.567	37.08	0.161	42.00	0.029	46.92	0.004
2.75	0.000	7.67	0.018	12.58	0.555	17.50	3.674	22.42	2.790	27.33	1.483	32.25	0.556	37.17	0.154	42.08	0.028	47.00	0.004
2.83	0.000	7.75	0.019	12.67	0.615	17.58	3.682	22.50	2.766	27.42	1.463	32.33	0.546	37.25	0.147	42.17	0.027	47.08	0.003
2.92	0.000	7.83	0.020	12.75	0.678	17.67	3.688	22.58	2.742	27.50	1.443	32.42	0.535	37.33	0.138	42.25	0.026	47.17	0.003
3.00	0.000	7.92	0.021	12.83	0.744	17.75	3.693	22.67	2.717	27.58	1.423	32.50	0.525	37.42	0.128	42.33	0.026	47.25	0.003
3.08	0.000	8.00	0.023	12.92	0.813	17.83	3.697	22.75	2.693	27.67	1.403	32.58	0.515	37.50	0.124	42.42	0.025	47.33	0.003
3.17	0.000	8.08	0.024	13.00	0.883	17.92	3.700	22.83	2.669	27.75	1.383	32.67	0.505	37.58	0.121	42.50	0.024	47.42	0.003
3.25	0.000	8.17	0.026	13.08	0.956	18.00	3.701	22.92	2.645	27.83	1.363	32.75	0.495	37.67	0.117	42.58	0.024	47.50	0.003
3.33	0.000	8.25	0.027	13.17	1.030	18.08	3.701	23.00	2.621	27.92	1.344	32.83	0.486	37.75	0.114	42.67	0.023	47.58	0.002
3.42	0.000	8.33	0.029	13.25	1.106	18.17	3.699	23.08	2.597	28.00	1.325	32.92	0.476	37.83	0.110	42.75	0.022	47.67	0.002
3.50	0.000	8.42	0.030	13.33	1.183	18.25	3.697	23.17	2.573	28.08	1.305	33.00	0.467	37.92	0.107	42.83	0.022	47.75	0.002
3.58	0.000	8.50	0.032	13.42	1.260	18.33	3.693	23.25	2.549	28.17	1.286	33.08	0.458	38.00	0.104	42.92	0.021	47.83	0.002
3.67	0.000	8.58	0.033	13.50	1.339	18.42	3.689	23.33	2.525	28.25	1.267	33.17	0.449	38.08	0.102	43.00	0.020	47.92	0.002
3.75	0.000	8.67	0.035	13.58	1.417	18.50	3.683	23.42	2.501	28.33	1.249	33.25	0.440	38.17	0.099	43.08	0.020	48.00	0.002
3.83	0.000	8.75	0.037	13.67	1.496	18.58	3.677	23.50	2.478	28.42	1.230	33.33	0.431	38.25	0.096	43.17	0.019	48.08	0.002
3.92	0.000	8.83	0.039	13.75	1.575	18.67	3.669	23.58	2.454	28.50	1.211	33.42	0.423	38.33	0.094	43.25	0.019	48.17	0.002
4.00	0.000	8.92	0.041	13.83	1.653	18.75	3.660	23.67	2.431	28.58	1.193	33.50	0.414	38.42	0.091	43.33	0.018	48.25	0.001
4.08	0.000	9.00	0.043	13.92	1.731	18.83	3.651	23.75	2.408	28.67	1.175	33.58	0.406	38.50	0.089	43.42	0.018	48.33	0.001
4.17	0.000	9.08	0.045	14.00	1.809	18.92	3.641	23.83	2.385	28.75	1.157	33.67	0.398	38.58	0.087	43.50	0.017	48.42	0.001
4.25	0.000	9.17	0.048	14.08	1.886	19.00	3.630	23.92	2.362	28.83	1.139	33.75	0.390	38.67	0.084	43.58	0.017	48.50	0.001
4.33	0.000	9.25	0.050	14.17	1.962	19.08	3.618	24.00	2.340	28.92	1.121	33.83	0.382	38.75	0.082	43.67	0.016	48.58	0.001
4.42	0.000	9.33	0.053	14.25	2.037	19.17	3.605	24.08	2.317	29.00	1.104	33.92	0.374	38.83	0.080	43.75	0.016	48.67	0.001
4.50	0.000	9.42	0.055	14.33	2.111	19.25	3.592	24.17	2.295	29.08	1.086	34.00	0.367	38.92	0.078	43.83	0.015	48.75	0.001
4.58	0.000	9.50	0.058	14.42	2.184	19.33	3.578	24.25	2.273	29.17	1.069	34.08	0.359	39.00	0.076	43.92	0.015	48.83	0.001
4.67	0.000	9.58	0.061	14.50	2.256	19.42	3.563	24.33	2.250	29.25	1.052	34.17	0.352	39.08	0.074	44.00	0.014	48.92	0.001
4.75	0.001	9.67	0.064	14.58	2.326	19.50	3.548	24.42	2.228	29.33	1.035	34.25	0.345	39.17	0.072	44.08	0.014	49.00	0.000
4.83	0.001	9.75	0.067	14.67	2.394	19.58	3.532	24.50	2.206	29.42	1.019	34.33	0.338	39.25	0.070	44.17	0.013	49.08	0.000

VG1 (VG SUMMER)



Hydrograph Statistics:

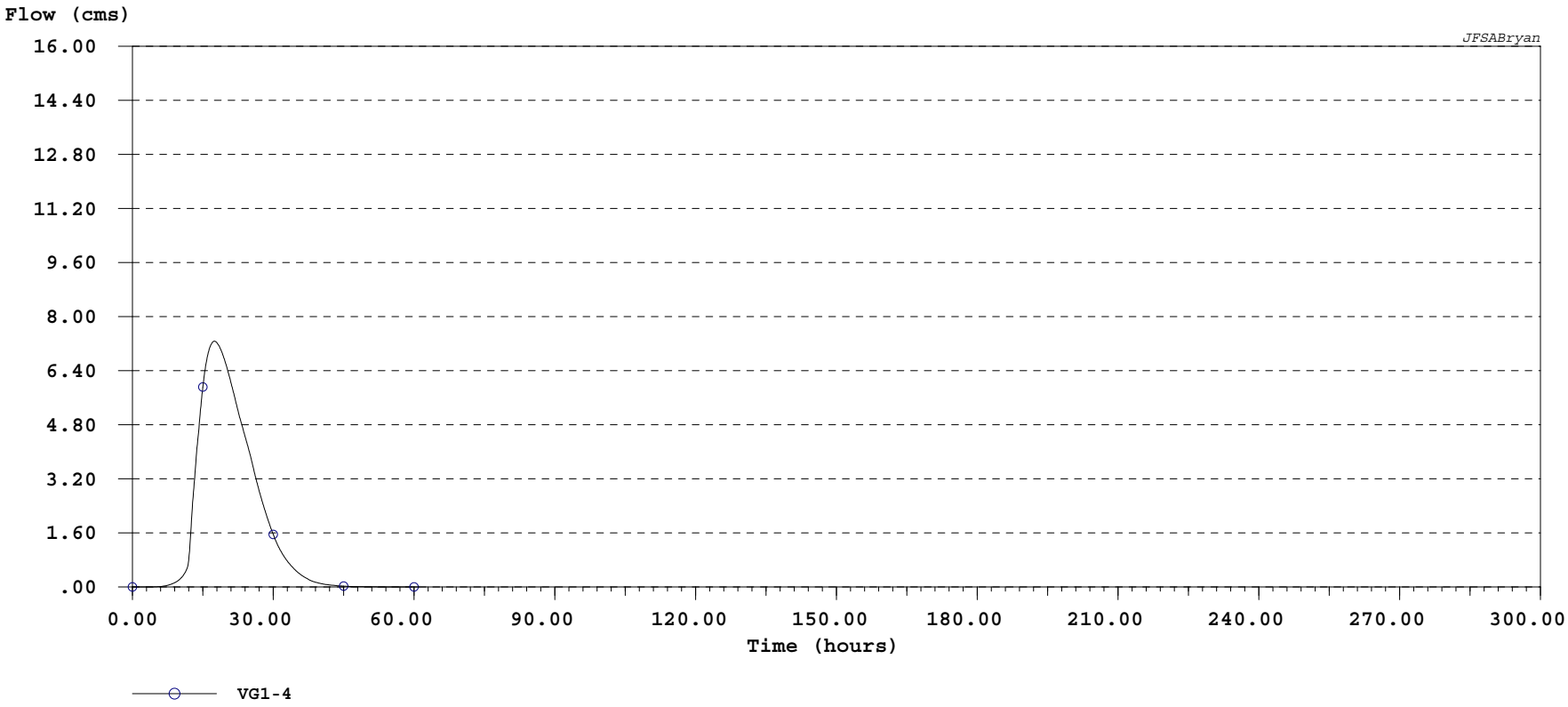
Legend	Filename & Comment	Time Step (min)	Drainage Area (ha)	Peak Flow (cms)	Time to Peak (hrs)	Runoff Volume (mm)	Runoff Volume (cu.m)	Duration of flow (hrs)	Average flow (cms)
	H-VG1.100 : VG1	5.00	727.40	9.543	16.917	57.61	4.191E+05	62.417	1.865

Hydrograph Table:

Hydrograph Filename : Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG1.100
Comment in file : VG1

# TIME hrs	FLOW # cms	# TIME hrs	FLOW # cms	# TIME hrs	FLOW # cms	# TIME hrs	FLOW # cms	# TIME hrs	FLOW # cms	# TIME hrs	FLOW # cms	# TIME hrs	FLOW # cms	# TIME hrs	FLOW # cms	# TIME hrs	FLOW # cms	# TIME hrs	FLOW # cms	# TIME hrs	FLOW # cms	# TIME hrs	FLOW # cms
0.00	0.000	5.75	0.024	11.50	0.785	17.25	9.514	23.00	6.003	28.75	2.442	34.50	0.564	40.25	0.107	46.00	0.020	51.75	0.003	57.50	0.000		
0.08	0.000	5.83	0.026	11.58	0.825	17.33	9.496	23.08	5.954	28.83	2.398	34.58	0.551	40.33	0.104	46.08	0.019	51.83	0.003	57.58	0.000		
0.17	0.000	5.92	0.028	11.67	0.869	17.42	9.480	23.17	5.904	28.92	2.352	34.67	0.539	40.42	0.102	46.17	0.019	51.92	0.003	57.67	0.000		
0.25	0.000	6.00	0.030	11.75	0.921	17.50	9.459	23.25	5.855	29.00	2.311	34.75	0.526	40.50	0.099	46.25	0.019	52.00	0.003	57.75	0.000		
0.33	0.000	6.08	0.032	11.83	0.984	17.58	9.432	23.33	5.805	29.08	2.261	34.83	0.514	40.58	0.097	46.33	0.018	52.08	0.003	57.83	0.000		
0.42	0.000	6.17	0.035	11.92	1.066	17.67	9.403	23.42	5.755	29.17	2.217	34.92	0.502	40.67	0.095	46.42	0.018	52.17	0.003	57.92	0.000		
0.50	0.000	6.25	0.037	12.00	1.176	17.75	9.374	23.50	5.705	29.25	2.171	35.00	0.491	40.75	0.092	46.50	0.017	52.25	0.003	58.00	0.000		
0.58	0.000	6.33	0.040	12.08	1.320	17.83	9.343	23.58	5.656	29.33	2.127	35.08	0.480	40.83	0.090	46.58	0.017	52.33	0.002	58.08	0.000		
0.67	0.000	6.42	0.043	12.17	1.499	17.92	9.309	23.67	5.605	29.42	2.083	35.17	0.469	40.92	0.088	46.67	0.016	52.42	0.002	58.17	0.000		
0.75	0.000	6.50	0.046	12.25	1.710	18.00	9.273	23.75	5.556	29.50	2.040	35.25	0.459	41.00	0.085	46.75	0.016	52.50	0.002	58.25	0.000		
0.83	0.000	6.58	0.050	12.33	1.945	18.08	9.234	23.83	5.505	29.58	1.997	35.33	0.449	41.08	0.083	46.83	0.015	52.58	0.002	58.33	0.000		
0.92	0.000	6.67	0.053	12.42	2.190	18.17	9.193	23.92	5.455	29.67	1.956	35.42	0.440	41.17	0.081	46.92	0.015	52.67	0.002	58.42	0.000		
1.00	0.000	6.75	0.056	12.50	2.428	18.25	9.151	24.00	5.405	29.75	1.915	35.50	0.430	41.25	0.079	47.00	0.014	52.75	0.002	58.50	0.000		
1.08	0.000	6.83	0.060	12.58	2.667	18.33	9.106	24.08	5.355	29.83	1.875	35.58	0.421	41.33	0.078	47.08	0.014	52.83	0.002	58.58	0.000		
1.17	0.000	6.92	0.064	12.67	2.903	18.42	9.061	24.17	5.305	29.92	1.836	35.67	0.412	41.42	0.076	47.17	0.014	52.92	0.002	58.67	0.000		
1.25	0.000	7.00	0.068	12.75	3.131	18.50	9.015	24.25	5.255	30.00	1.797	35.75	0.402	41.50	0.074	47.25	0.013	53.00	0.002	58.75	0.000		
1.33	0.000	7.08	0.072	12.83	3.363	18.58	8.967	24.33	5.206	30.08	1.759	35.83	0.393	41.58	0.073	47.33	0.013	53.08	0.002	58.83	0.000		
1.42	0.000	7.17	0.076	12.92	3.599	18.67	8.918	24.42	5.156	30.17	1.718	35.92	0.383	41.67	0.071	47.42	0.012	53.17	0.002	58.92	0.000		
1.50	0.000	7.25	0.081	13.00	3.837	18.75	8.868	24.50	5.107	30.25	1.675	36.00	0.374	41.75	0.069	47.50	0.012	53.25	0.002	59.00	0.000		
1.58	0.000	7.33	0.085	13.08	4.071	18.83	8.817	24.58	5.057	30.33	1.634	36.08	0.365	41.83	0.068	47.58	0.012	53.33	0.002	59.08	0.000		
1.67	0.000	7.42	0.090	13.17	4.296	18.92	8.765	24.67	5.007	30.42	1.594	36.17	0.357	41.92	0.067	47.67	0.011	53.42	0.002	59.17	0.000		
1.75	0.000	7.50	0.095	13.25	4.517	19.00	8.716	24.75	4.956	30.50	1.553	36.25	0.349	42.00	0.065	47.75	0.011	53.50	0.002	59.25	0.000		
1.83	0.000	7.58	0.100	13.33	4.734	19.08	8.665	24.83	4.906	30.58	1.512	36.33	0.341	42.08	0.064	47.83	0.011	53.58	0.002	59.33	0.000		
1.92	0.000	7.67	0.106	13.42	4.947	19.17	8.610	24.92	4.854	30.67	1.475	36.42	0.333	42.17	0.063	47.92	0.010	53.67	0.002	59.42	0.000		
2.00	0.000	7.75	0.111	13.50	5.161	19.25	8.553	25.00	4.803	30.75	1.440	36.50	0.325	42.25	0.061	48.00	0.010	53.75	0.001	59.50	0.000		
2.08	0.000	7.83	0.117	13.58	5.378	19.33	8.501	25.08	4.751	30.83	1.407	36.58	0.318	42.33	0.060	48.08	0.010	53.83	0.001	59.58	0.000		
2.17	0.000	7.92	0.122	13.67	5.592	19.42	8.447	25.17	4.699	30.92	1.376	36.67	0.310	42.42	0.059	48.17	0.010	53.92	0.001	59.67	0.000		
2.25	0.000	8.00	0.129	13.75	5.799	19.50	8.389	25.25	4.647	31.00	1.346	36.75	0.303	42.50	0.057	48.25	0.009	54.00	0.001	59.75	0.000		
2.33	0.000	8.08	0.135	13.83	5.990	19.58	8.334	25.33	4.594	31.08	1.317	36.83	0.296	42.58	0.056	48.33	0.009	54.08	0.001	59.83	0.000		
2.42	0.000	8.17	0.142	13.92	6.176	19.67	8.278	25.42	4.541	31.17	1.288	36.92	0.290	42.67	0.055	48.42	0.009	54.17	0.001	59.92	0.000		
2.50	0.000	8.25	0.149	14.00	6.357	19.75	8.218	25.50	4.489	31.25	1.260	37.00	0.283	42.75	0.054	48.50	0.009	54.25	0.001	60.00	0.000		
2.58	0.000	8.33	0.156	14.08	6.528	19.83	8.162	25.58	4.437	31.33	1.234	37.08	0.277	42.83	0.053	48.58	0.008	54.33	0.001	60.08	0.000		
2.67	0.000	8.42	0.164	14.17	6.693	19.92	8.106	25.67	4.382	31.42	1.208	37.17	0.271	42.92	0.052	48.67	0.008	54.42	0.001	60.17	0.000		
2.75	0.000	8.50	0.171	14.25	6.859	20.00	8.045	25.75	4.327	31.50	1.183	37.25	0.264	43.00	0.050	48.75	0.008	54.50	0.001	60.25	0.000		
2.83	0.000	8.58	0.179	14.33	7.025	20.08	7.989	25.83	4.271	31.58	1.159	37.33	0.258	43.08	0.049	48.83	0.008	54.58	0.001	60.33	0.000		
2.92	0.000	8.67	0.187	14.42	7.183	20.17	7.931	25.92	4.215	31.67	1.135	37.42	0.250	43.17	0.048	48.92	0.008	54.67	0.001	60.42	0.000		
3.00	0.000	8.75	0.195	14.50	7.334	20.25	7.872	26.00	4.157	31.75	1.113	37.50	0.243	43.25	0.047	49.00	0.007	54.75	0.001	60.50	0.000		
3.08	0.000	8.83	0.203	14.58	7.480	20.33	7.814	26.08	4.104	31.83	1.090	37.58	0.235	43.33	0.046	49.08	0.007	54.83	0.001	60.58	0.000		
3.17	0.000	8.92	0.212	14.67	7.618	20.42	7.754	26.17	4.049	31.92	1.069	37.67	0.229	43.42	0.045	49.17	0.007	54.92	0.001	60.67	0.000		
3.25	0.000	9.00	0.221	14.75	7.755	20.50	7.695	26.25	3.996	32.00	1.047	37.75	0.222	43.50	0.043	49.25	0.007	55.00	0.001	60.75	0.000		
3.33	0.001	9.08	0.231	14.83	7.892	20.58	7.636	26.33	3.942	32.08	1.026	37.83	0.216	43.58	0.042	49.33	0.007	55.08	0.001	60.83	0.000		
3.42	0.001	9.17	0.241	14.92	8.025	20.67	7.576	26.42	3.887	32.17	1.006	37.92	0.211	43.67	0.041	49.42	0.007	55.17	0.001	60.92	0.000		
3.50	0.001	9.25	0.251	15.00	8.149	20.75	7.516	26.50	3.831	32.25	0.985	38.00	0.205	43.75	0.040	49.50	0.006	55.25	0.001	61.00	0.000		
3.58	0.001	9.33	0.262	15.08	8.265	20.83	7.456	26.58	3.775	32.33	0.965	38.08	0.200	43.83	0.039	49.58	0.006	55.33	0.001	61.08	0.000		
3.67	0.001	9.42	0.273	15.17	8.375	20.92	7.396	26.67	3.719	32.42	0.945	38.17	0.195	43.92	0.038	49.67	0.006	55.42	0.001	61.17	0.000		
3.75	0.002	9.50	0.284	15.25	8.478	21.00	7.335	26.75	3.661	32.50	0.926	38.25	0.190	44.00	0.037	49.75	0.006	55.50	0.001	61.25	0.000		
3.83	0.002	9.58	0.296	15.33	8.574	21.08	7.275	26.83	3.603	32.58	0.908	38.33	0.185	44.08	0.036	49.83	0.006	55.58	0.001	61.33	0.000		
3.92	0.002	9.67	0.309	15.42	8.664	21.17	7.215	26.92	3.545	32.67	0.890	38.42	0.180	44.17	0.035	49.92	0.006	55.67	0.001	61.42	0.000		
4.00	0.002	9.75	0.321	15.50	8.764	21.25	7.154	27.00	3.486	32.75	0.872	38.50	0.176	44.25	0.034	50.00	0.005	55.75	0.001	61.50	0.000		
4.08	0.003	9.83	0.334	15.58	8.869	21.33	7.094	27.08	3.431	32.83	0.854	38.58	0.172	44.33	0.033	50.08	0.005	55.83	0.001	61.58	0.000		
4.17	0.003	9.92	0.348	15.67	8.964	21.42	7.033	27.17	3.377	32.92	0.837	38.67	0.168	44.42	0.032	50.17	0.005	55.92	0.001	61.67	0.000		
4.25	0.004	10.00	0.363	15.75	9.049	21.50	6.973	27.25	3.322	33.00	0.821	38.75	0.163	44.50	0.031	50.25	0.005	56.00	0.001	61.75	0.000		
4.33	0.004	10.08	0.378	15.83	9.125	21.58	6.913	27.33	3.268	33.08	0.804	38.83	0.159	44.58	0.030	50.33	0.005	56.08	0.001	61.83	0.000		
4.42	0.005	10.17	0.394	15.92	9.194	21.67	6.853	27.42	3.215	33.17	0.788	38.92	0.155	44.67	0.030	50.42	0.005	56.17	0.001	61.92	0.000		
4.50	0.006	10.25	0.411	16.00	9.255	21.75	6.794	27.50	3.162	33.25	0.772	39.00	0.151	44.75	0.029	50.50	0.005	56.25	0.001	62.00	0.000		
4.58	0.006	10.33	0.429	16.08	9.310	21.83	6.734	27.58	3.110	33.33	0.756	39.08	0.148	44.83	0.028	50.58	0.004	56.33	0.001	62.08	0.000		
4.67	0.007	10.42	0.446	16.17	9.357	21.92	6.674	27.67	3.059	33.42	0.740	39.17	0.144	44.92	0.027	50.67	0.004	56.42	0.001	62.17	0.000		
4.75	0.008	10.50	0.464	16.25	9.399	22.00	6.619	27.75	3.007	33.50	0.725	39.25	0.141	45.00	0.027	50.75	0.004	56.50	0.001	62.25	0.000		
4.83	0.009	10.58	0.484	16.33	9.435	22.08	6.567	27.83	2.956	33.58	0.710	39.33	0.138	45.08	0.026	50.83	0.004	56.58	0.001	62.33	0.000		
4.92	0.010	10.67	0.504	16.42	9.469	22.17	6.515	27.92	2.905	33.67	0.695	39.42	0.135	45.17	0.025	50.92	0.004	56.67	0.001	62.42	0.000		
5.00	0.011	10.75	0.525	16.50	9.493	22.25	6.462	28.00	2.855	33.75	0.681	39.50	0.132	45.25	0.025	51.00	0.004	56.75	0.001	62.50	0.000		
5.08	0.012	10.83	0.548	16.58	9.512	22.33	6.407	28.08	2.811	33.83	0.667	39.58	0.129	45.33	0.024	51.08	0.004	56.83	0.000	62.58	0.000		
5.17	0.013	10.92	0.573	16.67	9.527	22.42	6.353	28.17	2.765	33.92	0.654	39.67	0.125	45.42	0.024	51.17	0.004	56.92	0.000	62.67	0.000		
5.25	0.014	11.00	0.599	16.75	9.537	22.50	6.297	28.25	2.719	34.00	0.640	39.75	0.123	45.50	0.023	51.25	0.004	57.00	0.000	62.75	0.000		
5.33	0.015	11.08	0.625	16.83	9.542	22.58	6.247	28.33	2.672	34.08	0.627	39.83	0.120	45.58	0.023	51.33	0.003	57.08	0.000	62.83	0.000		
5.42	0.017	11.17	0.653	16.92	9.543	22.67	6.196	28.42	2.626	34.17	0.614	39.92	0.117	45.67	0.022	51.42	0.003	57.17	0.000	62.92	0.000		
5.50	0.018	11.25	0.683	17.00	9.541	22.75	6.151	28.50	2.580	34.25	0.601	40.00	0.114	45.75	0.021	51.50	0.003	57.25	0.000	63.00	0.000		
5.58	0.020	11.33	0.714	17.08	9.535	22.83	6.104	28.58	2.534	34.33	0.589	40.08	0.112	45.83	0.021	51.58	0.003	57.33	0.000	63.08	0.000		
5.67	0.022	11.42	0.748	17.17	9.528	22.92	6.054	28.67	2.488	34.42	0.576	40.17	0.109	45.92	0.020	51.67	0.003	57.42	0.000	63.17	0.000		

VG1-4 (VG SUMMER)



Hydrograph Statistics:

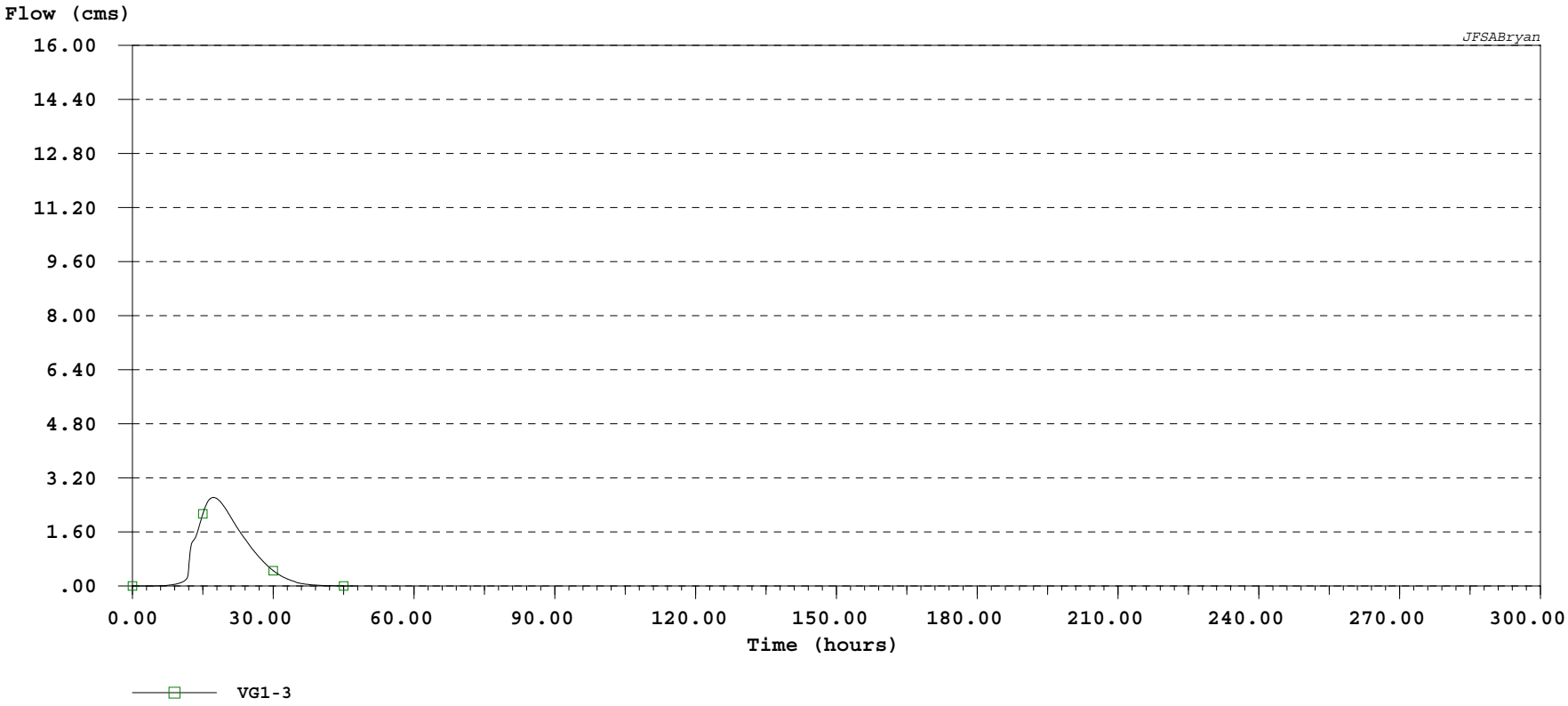
Legend	Filename & Comment	Time Step (min)	Drainage Area (ha)	Peak Flow (cms)	Time to Peak (hrs)	Runoff Volume (mm)	Runoff Volume (cu.m)	Duration of flow (hrs)	Average flow (cms)
——○——	H-VG1-4.100 : VG1-4	5.00	609.70	7.272	17.500	54.34	3.313E+05	61.083	1.507

Hydrograph Table:

Hydrograph Filename : Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG1-4.100
Comment in file : VG1-4

# TIME hrs	FLOW # cms #	TIME hrs	FLOW # cms #	TIME hrs	FLOW # cms #	TIME hrs	FLOW # cms #	TIME hrs	FLOW # cms #	TIME hrs	FLOW # cms #	TIME hrs	FLOW # cms #	TIME hrs	FLOW # cms #	TIME hrs	FLOW # cms #	TIME hrs	FLOW # cms #	TIME hrs	FLOW # cms #
0.00	0.000	5.58	0.008	11.17	0.414	16.75	7.175	22.33	5.304	27.92	2.406	33.50	0.679	39.08	0.138	44.67	0.026	50.25	0.004	55.83	0.000
0.08	0.000	5.67	0.009	11.25	0.434	16.83	7.192	22.42	5.257	28.00	2.369	33.58	0.666	39.17	0.135	44.75	0.025	50.33	0.004	55.92	0.000
0.17	0.000	5.75	0.010	11.33	0.456	16.92	7.213	22.50	5.210	28.08	2.331	33.67	0.652	39.25	0.132	44.83	0.025	50.42	0.003	56.00	0.000
0.25	0.000	5.83	0.011	11.42	0.479	17.00	7.230	22.58	5.163	28.17	2.293	33.75	0.639	39.33	0.129	44.92	0.024	50.50	0.003	56.08	0.000
0.33	0.000	5.92	0.012	11.50	0.504	17.08	7.244	22.67	5.117	28.25	2.256	33.83	0.626	39.42	0.125	45.00	0.023	50.58	0.003	56.17	0.000
0.42	0.000	6.00	0.013	11.58	0.532	17.17	7.255	22.75	5.070	28.33	2.219	33.92	0.613	39.50	0.122	45.08	0.023	50.67	0.003	56.25	0.000
0.50	0.000	6.08	0.014	11.67	0.563	17.25	7.264	22.83	5.025	28.42	2.183	34.00	0.601	39.58	0.119	45.17	0.022	50.75	0.003	56.33	0.000
0.58	0.000	6.17	0.015	11.75	0.600	17.33	7.269	22.92	4.985	28.50	2.147	34.08	0.588	39.67	0.116	45.25	0.022	50.83	0.003	56.42	0.000
0.67	0.000	6.25	0.017	11.83	0.648	17.42	7.272	23.00	4.946	28.58	2.112	34.17	0.576	39.75	0.113	45.33	0.021	50.92	0.003	56.50	0.000
0.75	0.000	6.33	0.018	11.92	0.712	17.50	7.272	23.08	4.906	28.67	2.077	34.25	0.563	39.83	0.110	45.42	0.021	51.00	0.003	56.58	0.000
0.83	0.000	6.42	0.020	12.00	0.800	17.58	7.270	23.17	4.866	28.75	2.042	34.33	0.551	39.92	0.108	45.50	0.020	51.08	0.003	56.67	0.000
0.92	0.000	6.50	0.021	12.08	0.921	17.67	7.265	23.25	4.825	28.83	2.007	34.42	0.539	40.00	0.105	45.58	0.019	51.17	0.003	56.75	0.000
1.00	0.000	6.58	0.023	12.17	1.071	17.75	7.258	23.33	4.784	28.92	1.973	34.50	0.528	40.08	0.103	45.67	0.019	51.25	0.002	56.83	0.000
1.08	0.000	6.67	0.025	12.25	1.239	17.83	7.250	23.42	4.742	29.00	1.939	34.58	0.516	40.17	0.100	45.75	0.018	51.33	0.002	56.92	0.000
1.17	0.000	6.75	0.028	12.33	1.419	17.92	7.239	23.50	4.700	29.08	1.905	34.67	0.504	40.25	0.098	45.83	0.018	51.42	0.002	57.00	0.000
1.25	0.000	6.83	0.030	12.42	1.605	18.00	7.226	23.58	4.658	29.17	1.871	34.75	0.493	40.33	0.095	45.92	0.018	51.50	0.002	57.08	0.000
1.33	0.000	6.92	0.032	12.50	1.790	18.08	7.211	23.67	4.616	29.25	1.836	34.83	0.482	40.42	0.093	46.00	0.017	51.58	0.002	57.17	0.000
1.42	0.000	7.00	0.034	12.58	1.975	18.17	7.195	23.75	4.574	29.33	1.802	34.92	0.470	40.50	0.090	46.08	0.017	51.67	0.002	57.25	0.000
1.50	0.000	7.08	0.036	12.67	2.157	18.25	7.177	23.83	4.532	29.42	1.769	35.00	0.459	40.58	0.088	46.17	0.016	51.75	0.002	57.33	0.000
1.58	0.000	7.17	0.038	12.75	2.333	18.33	7.157	23.92	4.490	29.50	1.737	35.08	0.450	40.67	0.086	46.25	0.016	51.83	0.002	57.42	0.000
1.67	0.000	7.25	0.041	12.83	2.505	18.42	7.141	24.00	4.448	29.58	1.705	35.17	0.440	40.75	0.084	46.33	0.015	51.92	0.002	57.50	0.000
1.75	0.000	7.33	0.043	12.92	2.666	18.50	7.124	24.08	4.406	29.67	1.674	35.25	0.431	40.83	0.082	46.42	0.015	52.00	0.002	57.58	0.000
1.83	0.000	7.42	0.046	13.00	2.802	18.58	7.099	24.17	4.371	29.75	1.644	35.33	0.422	40.92	0.080	46.50	0.015	52.08	0.002	57.67	0.000
1.92	0.000	7.50	0.049	13.08	2.927	18.67	7.072	24.25	4.330	29.83	1.613	35.42	0.412	41.00	0.078	46.58	0.014	52.17	0.002	57.75	0.000
2.00	0.000	7.58	0.053	13.17	3.070	18.75	7.049	24.33	4.290	29.92	1.583	35.50	0.403	41.08	0.077	46.67	0.014	52.25	0.002	57.83	0.000
2.08	0.000	7.67	0.056	13.25	3.226	18.83	7.026	24.42	4.249	30.00	1.553	35.58	0.394	41.17	0.075	46.75	0.013	52.33	0.002	57.92	0.000
2.17	0.000	7.75	0.059	13.33	3.379	18.92	6.994	24.50	4.207	30.08	1.524	35.67	0.385	41.25	0.073	46.83	0.013	52.42	0.002	58.00	0.000
2.25	0.000	7.83	0.062	13.42	3.532	19.00	6.967	24.58	4.165	30.17	1.494	35.75	0.376	41.33	0.072	46.92	0.013	52.50	0.002	58.08	0.000
2.33	0.000	7.92	0.066	13.50	3.683	19.08	6.939	24.67	4.123	30.25	1.464	35.83	0.367	41.42	0.070	47.00	0.012	52.58	0.001	58.17	0.000
2.42	0.000	8.00	0.069	13.58	3.830	19.17	6.904	24.75	4.080	30.33	1.435	35.92	0.358	41.50	0.068	47.08	0.012	52.67	0.001	58.25	0.000
2.50	0.000	8.08	0.073	13.67	3.974	19.25	6.874	24.83	4.037	30.42	1.407	36.00	0.350	41.58	0.067	47.17	0.012	52.75	0.001	58.33	0.000
2.58	0.000	8.17	0.077	13.75	4.107	19.33	6.843	24.92	3.994	30.50	1.380	36.08	0.342	41.67	0.065	47.25	0.011	52.83	0.001	58.42	0.000
2.67	0.000	8.25	0.082	13.83	4.228	19.42	6.805	25.00	3.951	30.58	1.353	36.17	0.334	41.75	0.064	47.33	0.011	52.92	0.001	58.50	0.000
2.75	0.000	8.33	0.087	13.92	4.343	19.50	6.773	25.08	3.908	30.67	1.326	36.25	0.327	41.83	0.063	47.42	0.011	53.00	0.001	58.58	0.000
2.83	0.000	8.42	0.091	14.00	4.458	19.58	6.739	25.17	3.865	30.75	1.298	36.33	0.319	41.92	0.061	47.50	0.010	53.08	0.001	58.67	0.000
2.92	0.000	8.50	0.095	14.08	4.573	19.67	6.698	25.25	3.822	30.83	1.272	36.42	0.311	42.00	0.060	47.58	0.010	53.17	0.001	58.75	0.000
3.00	0.000	8.58	0.099	14.17	4.703	19.75	6.664	25.33	3.774	30.92	1.247	36.50	0.304	42.08	0.059	47.67	0.010	53.25	0.001	58.83	0.000
3.08	0.000	8.67	0.104	14.25	4.846	19.83	6.629	25.42	3.727	31.00	1.223	36.58	0.296	42.17	0.057	47.75	0.010	53.33	0.001	58.92	0.000
3.17	0.000	8.75	0.109	14.33	4.980	19.92	6.586	25.50	3.673	31.08	1.199	36.67	0.290	42.25	0.056	47.83	0.009	53.42	0.001	59.00	0.000
3.25	0.000	8.83	0.114	14.42	5.112	20.00	6.550	25.58	3.625	31.17	1.176	36.75	0.283	42.33	0.055	47.92	0.009	53.50	0.001	59.08	0.000
3.33	0.000	8.92	0.120	14.50	5.239	20.08	6.513	25.67	3.575	31.25	1.154	36.83	0.277	42.42	0.054	48.00	0.009	53.58	0.001	59.17	0.000
3.42	0.000	9.00	0.126	14.58	5.362	20.17	6.467	25.75	3.526	31.33	1.132	36.92	0.270	42.50	0.052	48.08	0.008	53.67	0.001	59.25	0.000
3.50	0.000	9.08	0.132	14.67	5.480	20.25	6.429	25.83	3.477	31.42	1.110	37.00	0.264	42.58	0.051	48.17	0.008	53.75	0.001	59.33	0.000
3.58	0.000	9.17	0.138	14.75	5.595	20.33	6.390	25.92	3.429	31.50	1.089	37.08	0.258	42.67	0.050	48.25	0.008	53.83	0.001	59.42	0.000
3.67	0.000	9.25	0.144	14.83	5.705	20.42	6.344	26.00	3.380	31.58	1.069	37.17	0.252	42.75	0.049	48.33	0.008	53.92	0.001	59.50	0.000
3.75	0.000	9.33	0.150	14.92	5.811	20.50	6.304	26.08	3.333	31.67	1.048	37.25	0.246	42.83	0.048	48.42	0.008	54.00	0.001	59.58	0.000
3.83	0.000	9.42	0.158	15.00	5.915	20.58	6.263	26.17	3.286	31.75	1.028	37.33	0.239	42.92	0.046	48.50	0.007	54.08	0.001	59.67	0.000
3.92	0.001	9.50	0.165	15.08	6.016	20.67	6.219	26.25	3.239	31.83	1.007	37.42	0.230	43.00	0.045	48.58	0.007	54.17	0.001	59.75	0.000
4.00	0.001	9.58	0.173	15.17	6.113	20.75	6.174	26.33	3.193	31.92	0.988	37.50	0.223	43.08	0.044	48.67	0.007	54.25	0.001	59.83	0.000
4.08	0.001	9.67	0.181	15.25	6.205	20.83	6.130	26.42	3.148	32.00	0.968	37.58	0.216	43.17	0.043	48.75	0.007	54.33	0.001	59.92	0.000
4.17	0.001	9.75	0.190	15.33	6.292	20.92	6.085	26.50	3.103	32.08	0.950	37.67	0.210	43.25	0.042	48.83	0.006	54.42	0.001	60.00	0.000
4.25	0.001	9.83	0.198	15.42	6.374	21.00	6.040	26.58	3.059	32.17	0.932	37.75	0.205	43.33	0.040	48.92	0.006	54.50	0.001	60.08	0.000
4.33	0.001	9.92	0.207	15.50	6.453	21.08	5.995	26.67	3.015	32.25	0.914	37.83	0.199	43.42	0.039	49.00	0.006	54.58	0.001	60.17	0.000
4.42	0.001	10.00	0.217	15.58	6.531	21.17	5.950	26.75	2.973	32.33	0.896	37.92	0.194	43.50	0.038	49.08	0.006	54.67	0.001	60.25	0.000
4.50	0.002	10.08	0.227	15.67	6.599	21.25	5.904	26.83	2.930	32.42	0.879	38.00	0.189	43.58	0.037	49.17	0.006	54.75	0.001	60.33	0.000
4.58	0.002	10.17	0.238	15.75	6.663	21.33	5.860	26.92	2.888	32.50	0.862	38.08	0.184	43.67	0.036	49.25	0.005	54.83	0.001	60.42	0.000
4.67	0.002	10.25	0.250	15.83	6.725	21.42	5.815	27.00	2.846	32.58	0.845	38.17	0.179	43.75	0.036	49.33	0.005	54.92	0.001	60.50	0.000
4.75	0.002	10.33	0.261	15.92	6.783	21.50	5.770	27.08	2.805	32.67	0.828	38.25	0.175	43.83	0.035	49.42	0.005	55.00	0.001	60.58	0.000
4.83	0.003	10.42	0.272	16.00	6.838	21.58	5.725	27.17	2.764	32.75	0.811	38.33	0.170	43.92	0.034	49.50	0.005	55.08	0.001	60.67	0.000
4.92	0.003	10.50	0.285	16.08	6.889	21.67	5.679	27.25	2.723	32.83	0.795	38.42	0.166	44.00	0.033	49.58	0.005	55.17	0.001	60.75	0.000
5.00	0.003	10.58	0.298	16.17	6.937	21.75	5.632	27.33	2.682	32.92	0.780	38.50	0.162	44.08	0.032	49.67	0.005	55.25	0.001	60.83	0.000
5.08	0.004	10.67	0.312	16.25	6.981	21.83	5.586	27.42	2.641	33.00	0.765	38.58	0.158	44.17	0.031	49.75	0.004	55.33	0.001	60.92	0.000
5.17	0.004	10.75	0.327	16.33	7.027	21.92	5.539	27.50	2.601	33.08	0.749	38.67	0.154	44.25	0.030	49.83	0.004	55.42	0.001	61.00	0.000
5.25	0.005	10.83	0.343	16.42	7.061	22.00	5.492	27.58	2.561	33.17	0.735	38.75	0.151	44.33	0.029	49.92	0.004	55.50	0.001	61.08	0.000
5.33	0.006	10.92	0.360	16.50	7.091	22.08	5.444	27.67	2.521	33.25	0.720	38.83	0.147	44.42	0.028	50.00	0.004	55.58	0.000	61.17	0.000
5.42	0.006	11.00	0.377	16.58	7.125	22.17	5.397	27.75	2.483	33.33	0.706	38.92	0.144	44.50	0.028	50.08	0.004	55.67	0.000	61.25	0.000
5.50	0.007	11.08	0.395	16.67	7.155	22.25	5.350	27.83	2.444	33.42	0.693	39.00	0.141	44.58	0.027	50.17	0.004	55.75	0.000	61.33	0.000

VG1-3 (VG SUMMER)



Hydrograph Statistics:

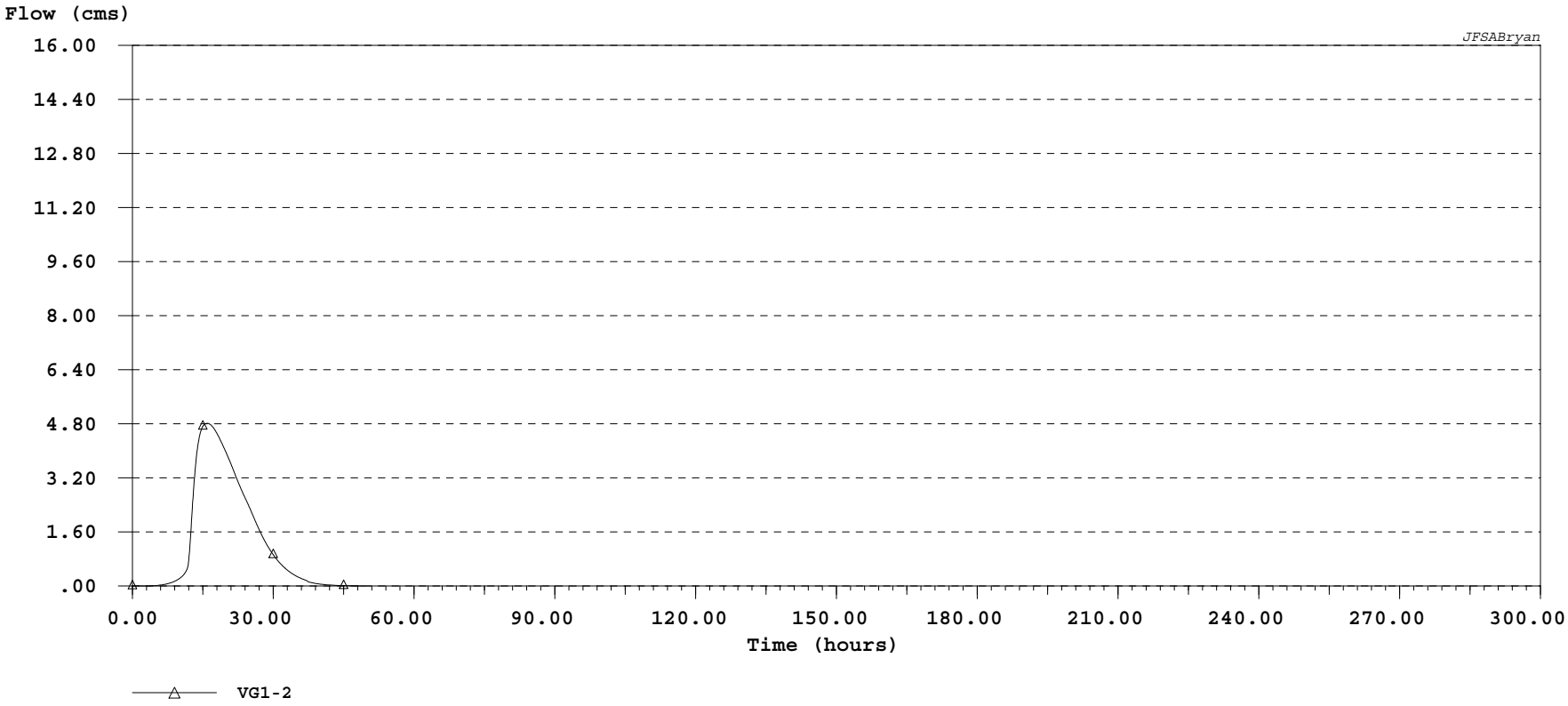
Legend	Filename & Comment	Time Step (min)	Drainage Area (ha)	Peak Flow (cms)	Time to Peak (hrs)	Runoff Volume (mm)	Runoff Volume (cu.m)	Duration of flow (hrs)	Average flow (cms)
	H-VG1-3.100 : VG1-3	5.00	225.20	2.619	17.250	50.17	1.130E+05	46.917	0.669

Hydrograph Table:

Hydrograph Filename : Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG1-3.100
Comment in file : VG1-3

# TIME hrs	FLOW # cms #	TIME hrs	FLOW # cms #	TIME hrs	FLOW # cms #	TIME hrs	FLOW # cms #	TIME hrs	FLOW # cms #	TIME hrs	FLOW # cms #	TIME hrs	FLOW # cms #	TIME hrs	FLOW # cms #	TIME hrs	FLOW # cms #	TIME hrs	FLOW # cms #
0.00	0.000	4.92	0.002	9.83	0.076	14.75	2.025	19.67	2.322	24.58	1.277	29.50	0.509	34.42	0.138	39.33	0.023	44.25	0.003
0.08	0.000	5.00	0.002	9.92	0.080	14.83	2.064	19.75	2.305	24.67	1.260	29.58	0.499	34.50	0.134	39.42	0.023	44.33	0.003
0.17	0.000	5.08	0.003	10.00	0.083	14.92	2.101	19.83	2.288	24.75	1.243	29.67	0.490	34.58	0.130	39.50	0.022	44.42	0.003
0.25	0.000	5.17	0.003	10.08	0.087	15.00	2.138	19.92	2.271	24.83	1.227	29.75	0.480	34.67	0.125	39.58	0.021	44.50	0.002
0.33	0.000	5.25	0.003	10.17	0.091	15.08	2.173	20.00	2.253	24.92	1.210	29.83	0.471	34.75	0.120	39.67	0.021	44.58	0.002
0.42	0.000	5.33	0.004	10.25	0.095	15.17	2.208	20.08	2.236	25.00	1.194	29.92	0.462	34.83	0.113	39.75	0.020	44.67	0.002
0.50	0.000	5.42	0.004	10.33	0.099	15.25	2.241	20.17	2.218	25.08	1.178	30.00	0.453	34.92	0.106	39.83	0.019	44.75	0.002
0.58	0.000	5.50	0.004	10.42	0.104	15.33	2.274	20.25	2.199	25.17	1.163	30.08	0.444	35.00	0.103	39.92	0.019	44.83	0.002
0.67	0.000	5.58	0.005	10.50	0.108	15.42	2.304	20.33	2.180	25.25	1.147	30.17	0.435	35.08	0.100	40.00	0.018	44.92	0.002
0.75	0.000	5.67	0.005	10.58	0.114	15.50	2.334	20.42	2.161	25.33	1.132	30.25	0.427	35.17	0.097	40.08	0.018	45.00	0.002
0.83	0.000	5.75	0.005	10.67	0.119	15.58	2.362	20.50	2.142	25.42	1.117	30.33	0.418	35.25	0.094	40.17	0.017	45.08	0.002
0.92	0.000	5.83	0.006	10.75	0.125	15.67	2.389	20.58	2.122	25.50	1.103	30.42	0.410	35.33	0.091	40.25	0.017	45.17	0.002
1.00	0.000	5.92	0.006	10.83	0.131	15.75	2.415	20.67	2.102	25.58	1.088	30.50	0.401	35.42	0.089	40.33	0.016	45.25	0.001
1.08	0.000	6.00	0.007	10.92	0.138	15.83	2.440	20.75	2.083	25.67	1.073	30.58	0.393	35.50	0.086	40.42	0.016	45.33	0.001
1.17	0.000	6.08	0.007	11.00	0.145	15.92	2.463	20.83	2.063	25.75	1.059	30.67	0.385	35.58	0.084	40.50	0.015	45.42	0.001
1.25	0.000	6.17	0.008	11.08	0.153	16.00	2.485	20.92	2.043	25.83	1.045	30.75	0.377	35.67	0.082	40.58	0.015	45.50	0.001
1.33	0.000	6.25	0.008	11.17	0.162	16.08	2.505	21.00	2.024	25.92	1.031	30.83	0.369	35.75	0.079	40.67	0.014	45.58	0.001
1.42	0.000	6.33	0.009	11.25	0.171	16.17	2.523	21.08	2.004	26.00	1.017	30.92	0.362	35.83	0.077	40.75	0.014	45.67	0.001
1.50	0.000	6.42	0.010	11.33	0.182	16.25	2.539	21.17	1.985	26.08	1.003	31.00	0.354	35.92	0.075	40.83	0.013	45.75	0.001
1.58	0.000	6.50	0.010	11.42	0.193	16.33	2.553	21.25	1.965	26.17	0.989	31.08	0.347	36.00	0.073	40.92	0.013	45.83	0.001
1.67	0.000	6.58	0.011	11.50	0.205	16.42	2.566	21.33	1.946	26.25	0.975	31.17	0.340	36.08	0.071	41.00	0.013	45.92	0.001
1.75	0.000	6.67	0.011	11.58	0.220	16.50	2.577	21.42	1.927	26.33	0.962	31.25	0.332	36.17	0.069	41.08	0.012	46.00	0.001
1.83	0.000	6.75	0.012	11.67	0.241	16.58	2.586	21.50	1.908	26.42	0.948	31.33	0.325	36.25	0.067	41.17	0.012	46.08	0.001
1.92	0.000	6.83	0.013	11.75	0.274	16.67	2.594	21.58	1.889	26.50	0.934	31.42	0.319	36.33	0.065	41.25	0.011	46.17	0.001
2.00	0.000	6.92	0.014	11.83	0.328	16.75	2.601	21.67	1.870	26.58	0.921	31.50	0.312	36.42	0.063	41.33	0.011	46.25	0.001
2.08	0.000	7.00	0.015	11.92	0.413	16.83	2.607	21.75	1.851	26.67	0.908	31.58	0.305	36.50	0.062	41.42	0.011	46.33	0.000
2.17	0.000	7.08	0.015	12.00	0.538	16.92	2.612	21.83	1.832	26.75	0.894	31.67	0.298	36.58	0.060	41.50	0.010	46.42	0.000
2.25	0.000	7.17	0.016	12.08	0.686	17.00	2.615	21.92	1.814	26.83	0.881	31.75	0.292	36.67	0.058	41.58	0.010	46.50	0.000
2.33	0.000	7.25	0.017	12.17	0.828	17.08	2.617	22.00	1.795	26.92	0.868	31.83	0.286	36.75	0.057	41.67	0.010	46.58	0.000
2.42	0.000	7.33	0.018	12.25	0.952	17.17	2.619	22.08	1.777	27.00	0.855	31.92	0.279	36.83	0.055	41.75	0.009	46.67	0.000
2.50	0.000	7.42	0.019	12.33	1.054	17.25	2.619	22.17	1.758	27.08	0.842	32.00	0.273	36.92	0.054	41.83	0.009	46.75	0.000
2.58	0.000	7.50	0.020	12.42	1.135	17.33	2.619	22.25	1.740	27.17	0.829	32.08	0.267	37.00	0.052	41.92	0.009	46.83	0.000
2.67	0.000	7.58	0.021	12.50	1.198	17.42	2.618	22.33	1.722	27.25	0.816	32.17	0.261	37.08	0.051	42.00	0.008	46.92	0.000
2.75	0.000	7.67	0.023	12.58	1.245	17.50	2.615	22.42	1.704	27.33	0.803	32.25	0.256	37.17	0.050	42.08	0.008	47.00	0.000
2.83	0.000	7.75	0.024	12.67	1.279	17.58	2.612	22.50	1.686	27.42	0.791	32.33	0.250	37.25	0.048	42.17	0.008	47.08	0.000
2.92	0.000	7.83	0.025	12.75	1.303	17.67	2.608	22.58	1.669	27.50	0.778	32.42	0.244	37.33	0.047	42.25	0.007	47.17	0.000
3.00	0.000	7.92	0.026	12.83	1.321	17.75	2.603	22.67	1.651	27.58	0.766	32.50	0.239	37.42	0.046	42.33	0.007	47.25	0.000
3.08	0.000	8.00	0.028	12.92	1.335	17.83	2.598	22.75	1.633	27.67	0.753	32.58	0.234	37.50	0.044	42.42	0.007	47.33	0.000
3.17	0.000	8.08	0.029	13.00	1.348	17.92	2.591	22.83	1.616	27.75	0.741	32.67	0.228	37.58	0.043	42.50	0.007	47.42	0.000
3.25	0.000	8.17	0.031	13.08	1.361	18.00	2.584	22.92	1.599	27.83	0.729	32.75	0.223	37.67	0.042	42.58	0.006	47.50	0.000
3.33	0.000	8.25	0.032	13.17	1.376	18.08	2.576	23.00	1.582	27.92	0.717	32.83	0.218	37.75	0.041	42.67	0.006	47.58	0.000
3.42	0.000	8.33	0.034	13.25	1.392	18.17	2.568	23.08	1.565	28.00	0.705	32.92	0.213	37.83	0.040	42.75	0.006	47.67	0.000
3.50	0.000	8.42	0.035	13.33	1.412	18.25	2.558	23.17	1.548	28.08	0.693	33.00	0.208	37.92	0.038	42.83	0.006	47.75	0.000
3.58	0.000	8.50	0.037	13.42	1.434	18.33	2.548	23.25	1.532	28.17	0.681	33.08	0.203	38.00	0.037	42.92	0.005	47.83	0.000
3.67	0.000	8.58	0.039	13.50	1.459	18.42	2.538	23.33	1.515	28.25	0.670	33.17	0.199	38.08	0.036	43.00	0.005	47.92	0.000
3.75	0.000	8.67	0.041	13.58	1.488	18.50	2.527	23.42	1.499	28.33	0.658	33.25	0.194	38.17	0.035	43.08	0.005	48.00	0.000
3.83	0.000	8.75	0.043	13.67	1.519	18.58	2.515	23.50	1.483	28.42	0.647	33.33	0.190	38.25	0.034	43.17	0.005	48.08	0.000
3.92	0.000	8.83	0.045	13.75	1.552	18.67	2.503	23.58	1.467	28.50	0.635	33.42	0.185	38.33	0.033	43.25	0.005	48.17	0.000
4.00	0.000	8.92	0.047	13.83	1.588	18.75	2.490	23.67	1.451	28.58	0.624	33.50	0.181	38.42	0.032	43.33	0.004	48.25	0.000
4.08	0.000	9.00	0.049	13.92	1.625	18.83	2.476	23.75	1.435	28.67	0.613	33.58	0.176	38.50	0.031	43.42	0.004	48.33	0.000
4.17	0.001	9.08	0.051	14.00	1.664	18.92	2.463	23.83	1.420	28.75	0.602	33.67	0.172	38.58	0.030	43.50	0.004	48.42	0.000
4.25	0.001	9.17	0.054	14.08	1.704	19.00	2.448	23.92	1.405	28.83	0.591	33.75	0.168	38.67	0.029	43.58	0.004	48.50	0.000
4.33	0.001	9.25	0.056	14.17	1.744	19.08	2.434	24.00	1.390	28.92	0.581	33.83	0.164	38.75	0.029	43.67	0.004	48.58	0.000
4.42	0.001	9.33	0.059	14.25	1.785	19.17	2.419	24.08	1.375	29.00	0.570	33.92	0.160	38.83	0.028	43.75	0.004	48.67	0.000
4.50	0.001	9.42	0.061	14.33	1.826	19.25	2.404	24.17	1.359	29.08	0.559	34.00	0.156	38.92	0.027	43.83	0.004	48.75	0.000
4.58	0.001	9.50	0.064	14.42	1.866	19.33	2.388	24.25	1.343	29.17	0.549	34.08	0.152	39.00	0.026	43.92	0.003	48.83	0.000
4.67	0.001	9.58	0.067	14.50	1.907	19.42	2.372	24.33	1.327	29.25	0.539	34.17	0.149	39.08	0.025	44.00	0.003	48.92	0.000
4.75	0.002	9.67	0.070	14.58	1.947	19.50	2.356	24.42	1.310	29.33	0.529	34.25	0.145	39.17	0.025	44.08	0.003	49.00	0.000
4.83	0.002	9.75	0.073	14.67	1.986	19.58	2.339	24.50	1.293	29.42	0.519	34.33	0.141	39.25	0.024	44.17	0.003	49.08	0.000

VG1-2 (VG SUMMER)



Hydrograph Statistics:

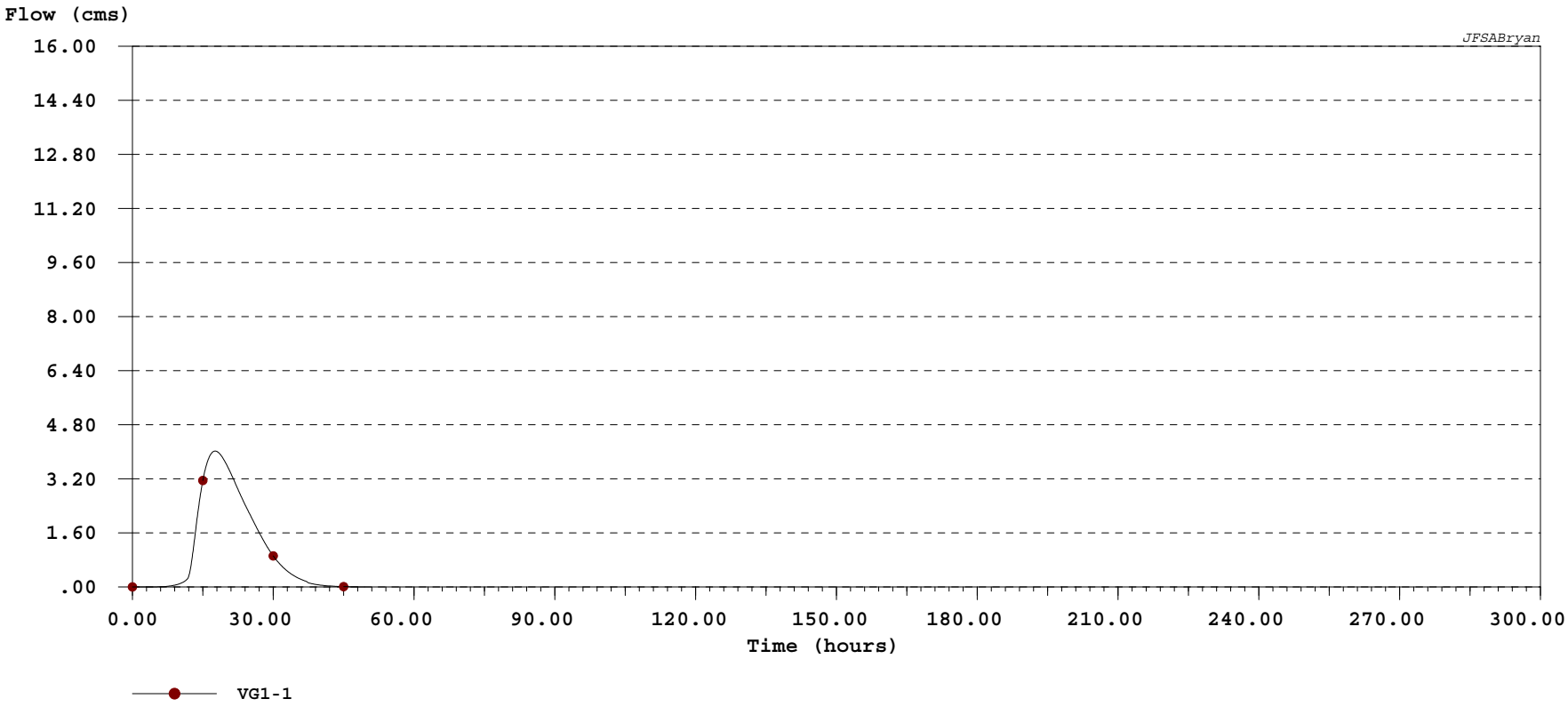
Legend	Filename & Comment	Time Step (min)	Drainage Area (ha)	Peak Flow (cms)	Time to Peak (hrs)	Runoff Volume (mm)	Runoff Volume (cu.m)	Duration of flow (hrs)	Average flow (cms)
△	H-VG1-2.100 : VG1-2	5.00	384.50	4.814	15.917	56.78	2.183E+05	49.417	1.227

Hydrograph Table:

Hydrograph Filename : Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG1-2.100
Comment in file : VG1-2

# TIME hrs	FLOW # cms	TIME hrs	FLOW # cms	TIME hrs	FLOW # cms	TIME hrs	FLOW # cms	TIME hrs	FLOW # cms	TIME hrs	FLOW # cms	TIME hrs	FLOW # cms	TIME hrs	FLOW # cms	TIME hrs	FLOW # cms	TIME hrs	FLOW # cms
0.00	0.000	4.92	0.011	9.83	0.203	14.75	4.655	19.67	4.038	24.58	2.433	29.50	1.027	34.42	0.332	39.33	0.068	44.25	0.013
0.08	0.000	5.00	0.012	9.92	0.211	14.83	4.682	19.75	4.012	24.67	2.408	29.58	1.009	34.50	0.325	39.42	0.067	44.33	0.012
0.17	0.000	5.08	0.013	10.00	0.219	14.92	4.705	19.83	3.986	24.75	2.382	29.67	0.992	34.58	0.318	39.50	0.065	44.42	0.012
0.25	0.000	5.17	0.014	10.08	0.227	15.00	4.726	19.92	3.960	24.83	2.356	29.75	0.975	34.67	0.311	39.58	0.063	44.50	0.012
0.33	0.000	5.25	0.015	10.17	0.235	15.08	4.744	20.00	3.934	24.92	2.330	29.83	0.958	34.75	0.305	39.67	0.062	44.58	0.011
0.42	0.000	5.33	0.017	10.25	0.244	15.17	4.759	20.08	3.908	25.00	2.304	29.92	0.941	34.83	0.298	39.75	0.060	44.67	0.011
0.50	0.000	5.42	0.018	10.33	0.254	15.25	4.772	20.17	3.881	25.08	2.277	30.00	0.925	34.92	0.292	39.83	0.059	44.75	0.010
0.58	0.000	5.50	0.019	10.42	0.263	15.33	4.783	20.25	3.855	25.17	2.250	30.08	0.908	35.00	0.286	39.92	0.057	44.83	0.010
0.67	0.000	5.58	0.020	10.50	0.274	15.42	4.792	20.33	3.828	25.25	2.223	30.17	0.892	35.08	0.280	40.00	0.056	44.92	0.010
0.75	0.000	5.67	0.022	10.58	0.284	15.50	4.799	20.42	3.801	25.33	2.196	30.25	0.877	35.17	0.274	40.08	0.054	45.00	0.009
0.83	0.000	5.75	0.023	10.67	0.296	15.58	4.804	20.50	3.774	25.42	2.169	30.33	0.861	35.25	0.268	40.17	0.053	45.08	0.009
0.92	0.000	5.83	0.025	10.75	0.308	15.67	4.809	20.58	3.746	25.50	2.142	30.42	0.846	35.33	0.262	40.25	0.051	45.17	0.009
1.00	0.000	5.92	0.026	10.83	0.320	15.75	4.811	20.67	3.718	25.58	2.115	30.50	0.831	35.42	0.257	40.33	0.050	45.25	0.008
1.08	0.000	6.00	0.028	10.92	0.334	15.83	4.813	20.75	3.691	25.67	2.088	30.58	0.816	35.50	0.251	40.42	0.049	45.33	0.008
1.17	0.000	6.08	0.030	11.00	0.348	15.92	4.814	20.83	3.662	25.75	2.061	30.67	0.801	35.58	0.246	40.50	0.047	45.42	0.008
1.25	0.000	6.17	0.031	11.08	0.363	16.00	4.813	20.92	3.634	25.83	2.033	30.75	0.787	35.67	0.240	40.58	0.046	45.50	0.007
1.33	0.000	6.25	0.033	11.17	0.379	16.08	4.812	21.00	3.605	25.92	2.006	30.83	0.772	35.75	0.235	40.67	0.045	45.58	0.007
1.42	0.000	6.33	0.035	11.25	0.397	16.17	4.809	21.08	3.577	26.00	1.979	30.92	0.758	35.83	0.230	40.75	0.044	45.67	0.007
1.50	0.000	6.42	0.037	11.33	0.416	16.25	4.805	21.17	3.548	26.08	1.951	31.00	0.745	35.92	0.225	40.83	0.042	45.75	0.007
1.58	0.000	6.50	0.039	11.42	0.436	16.33	4.801	21.25	3.519	26.17	1.924	31.08	0.731	36.00	0.220	40.92	0.041	45.83	0.006
1.67	0.000	6.58	0.041	11.50	0.459	16.42	4.795	21.33	3.490	26.25	1.898	31.17	0.718	36.08	0.215	41.00	0.040	45.92	0.006
1.75	0.000	6.67	0.043	11.58	0.483	16.50	4.788	21.42	3.461	26.33	1.871	31.25	0.704	36.17	0.210	41.08	0.039	46.00	0.006
1.83	0.000	6.75	0.045	11.67	0.512	16.58	4.780	21.50	3.431	26.42	1.845	31.33	0.691	36.25	0.206	41.17	0.038	46.08	0.006
1.92	0.000	6.83	0.047	11.75	0.548	16.67	4.771	21.58	3.402	26.50	1.819	31.42	0.678	36.33	0.201	41.25	0.037	46.17	0.006
2.00	0.000	6.92	0.049	11.83	0.597	16.75	4.761	21.67	3.372	26.58	1.793	31.50	0.666	36.42	0.197	41.33	0.036	46.25	0.005
2.08	0.000	7.00	0.052	11.92	0.666	16.83	4.750	21.75	3.341	26.67	1.767	31.58	0.653	36.50	0.192	41.42	0.035	46.33	0.005
2.17	0.000	7.08	0.054	12.00	0.762	16.92	4.738	21.83	3.311	26.75	1.741	31.67	0.641	36.58	0.188	41.50	0.034	46.42	0.005
2.25	0.000	7.17	0.057	12.08	0.886	17.00	4.725	21.92	3.282	26.83	1.716	31.75	0.629	36.67	0.183	41.58	0.033	46.50	0.005
2.33	0.000	7.25	0.059	12.17	1.031	17.08	4.711	22.00	3.253	26.92	1.691	31.83	0.617	36.75	0.179	41.67	0.032	46.58	0.004
2.42	0.000	7.33	0.062	12.25	1.192	17.17	4.697	22.08	3.225	27.00	1.666	31.92	0.605	36.83	0.175	41.75	0.031	46.67	0.004
2.50	0.000	7.42	0.065	12.33	1.364	17.25	4.682	22.17	3.196	27.08	1.641	32.00	0.594	36.92	0.170	41.83	0.030	46.75	0.004
2.58	0.000	7.50	0.067	12.42	1.544	17.33	4.666	22.25	3.167	27.17	1.616	32.08	0.583	37.00	0.166	41.92	0.030	46.83	0.004
2.67	0.000	7.58	0.070	12.50	1.729	17.42	4.649	22.33	3.139	27.25	1.592	32.17	0.572	37.08	0.161	42.00	0.029	46.92	0.004
2.75	0.000	7.67	0.073	12.58	1.916	17.50	4.632	22.42	3.110	27.33	1.568	32.25	0.561	37.17	0.154	42.08	0.028	47.00	0.004
2.83	0.000	7.75	0.077	12.67	2.102	17.58	4.614	22.50	3.082	27.42	1.544	32.33	0.550	37.25	0.147	42.17	0.027	47.08	0.003
2.92	0.000	7.83	0.080	12.75	2.286	17.67	4.595	22.58	3.054	27.50	1.520	32.42	0.539	37.33	0.138	42.25	0.026	47.17	0.003
3.00	0.000	7.92	0.083	12.83	2.465	17.75	4.576	22.67	3.026	27.58	1.497	32.50	0.529	37.42	0.128	42.33	0.026	47.25	0.003
3.08	0.000	8.00	0.087	12.92	2.639	17.83	4.557	22.75	2.998	27.67	1.474	32.58	0.518	37.50	0.124	42.42	0.025	47.33	0.003
3.17	0.001	8.08	0.090	13.00	2.807	17.92	4.536	22.83	2.971	27.75	1.451	32.67	0.508	37.58	0.121	42.50	0.024	47.42	0.003
3.25	0.001	8.17	0.094	13.08	2.968	18.00	4.516	22.92	2.943	27.83	1.428	32.75	0.498	37.67	0.117	42.58	0.024	47.50	0.003
3.33	0.001	8.25	0.098	13.17	3.120	18.08	4.495	23.00	2.916	27.92	1.406	32.83	0.489	37.75	0.114	42.67	0.023	47.58	0.002
3.42	0.001	8.33	0.102	13.25	3.265	18.17	4.473	23.08	2.889	28.00	1.384	32.92	0.479	37.83	0.110	42.75	0.022	47.67	0.002
3.50	0.001	8.42	0.106	13.33	3.402	18.25	4.451	23.17	2.862	28.08	1.362	33.00	0.470	37.92	0.107	42.83	0.022	47.75	0.002
3.58	0.002	8.50	0.110	13.42	3.531	18.33	4.429	23.25	2.835	28.17	1.340	33.08	0.460	38.00	0.104	42.92	0.021	47.83	0.002
3.67	0.002	8.58	0.115	13.50	3.651	18.42	4.407	23.33	2.809	28.25	1.319	33.17	0.451	38.08	0.102	43.00	0.020	47.92	0.002
3.75	0.002	8.67	0.119	13.58	3.764	18.50	4.384	23.42	2.783	28.33	1.297	33.25	0.442	38.17	0.099	43.08	0.020	48.00	0.002
3.83	0.003	8.75	0.124	13.67	3.869	18.58	4.361	23.50	2.757	28.42	1.276	33.33	0.433	38.25	0.096	43.17	0.019	48.08	0.002
3.92	0.003	8.83	0.129	13.75	3.966	18.67	4.337	23.58	2.731	28.50	1.256	33.42	0.425	38.33	0.094	43.25	0.019	48.17	0.002
4.00	0.003	8.92	0.134	13.83	4.056	18.75	4.313	23.67	2.706	28.58	1.235	33.50	0.416	38.42	0.091	43.33	0.018	48.25	0.001
4.08	0.004	9.00	0.139	13.92	4.139	18.83	4.289	23.75	2.680	28.67	1.215	33.58	0.408	38.50	0.089	43.42	0.018	48.33	0.001
4.17	0.004	9.08	0.145	14.00	4.215	18.92	4.265	23.83	2.655	28.75	1.195	33.67	0.399	38.58	0.087	43.50	0.017	48.42	0.001
4.25	0.005	9.17	0.150	14.08	4.285	19.00	4.240	23.92	2.630	28.83	1.176	33.75	0.391	38.67	0.084	43.58	0.017	48.50	0.001
4.33	0.006	9.25	0.156	14.17	4.350	19.08	4.216	24.00	2.606	28.92	1.156	33.83	0.383	38.75	0.082	43.67	0.016	48.58	0.001
4.42	0.006	9.33	0.162	14.25	4.408	19.17	4.191	24.08	2.581	29.00	1.137	33.92	0.376	38.83	0.080	43.75	0.016	48.67	0.001
4.50	0.007	9.42	0.168	14.33	4.461	19.25	4.166	24.17	2.557	29.08	1.118	34.00	0.368	38.92	0.078	43.83	0.015	48.75	0.001
4.58	0.008	9.50	0.175	14.42	4.508	19.33	4.140	24.25	2.533	29.17	1.099	34.08	0.360	39.00	0.076	43.92	0.015	48.83	0.001
4.67	0.008	9.58	0.181	14.50	4.551	19.42	4.115	24.33	2.508	29.25	1.081	34.17	0.353	39.08	0.074	44.00	0.014	48.92	0.001
4.75	0.009	9.67	0.188	14.58	4.590	19.50	4.089	24.42	2.483	29.33	1.062	34.25	0.346	39.17	0.072	44.08	0.014	49.00	0.000
4.83	0.010	9.75	0.196	14.67	4.624	19.58	4.064	24.50	2.458	29.42	1.044	34.33	0.339	39.25	0.070	44.17	0.013	49.08	0.000

VG1-1 (VG SUMMER)



Hydrograph Statistics:

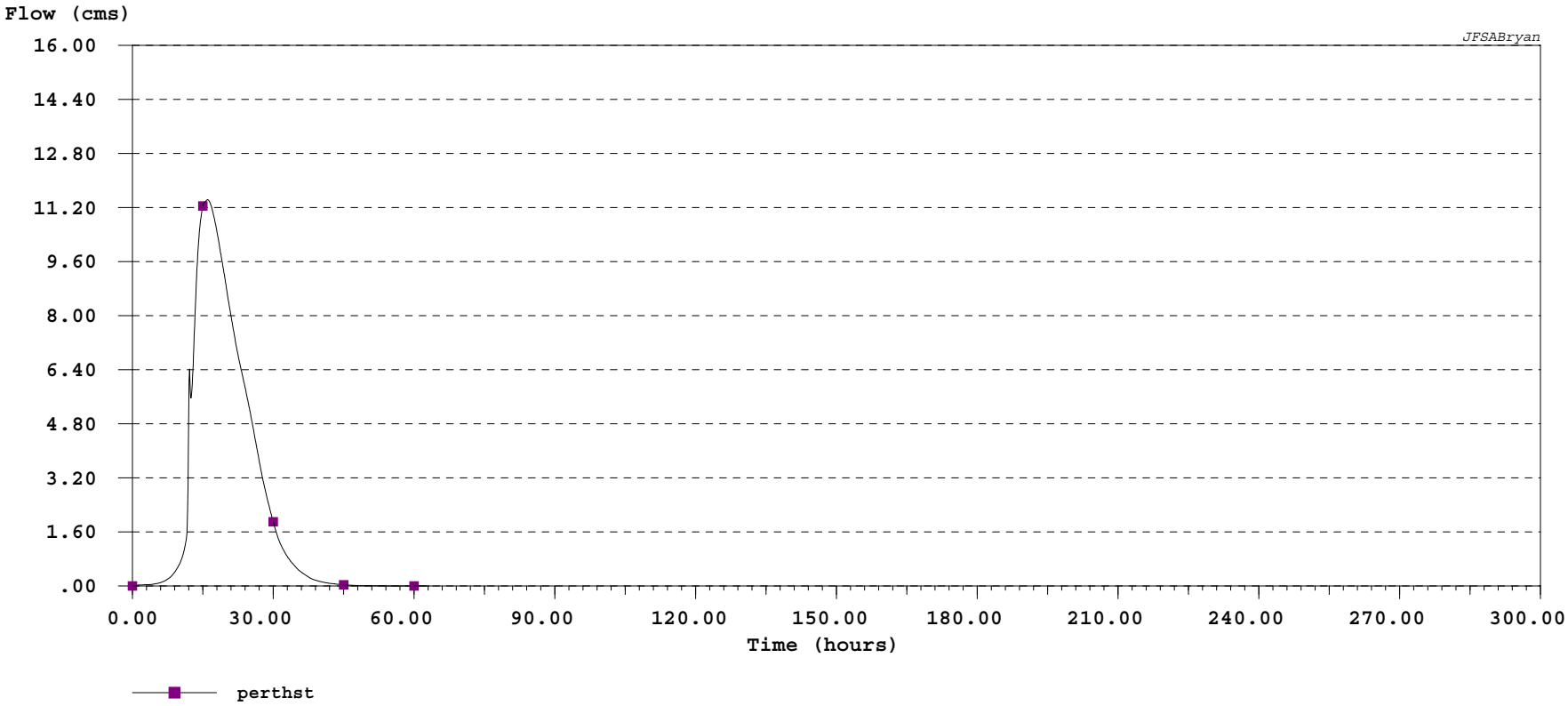
Legend	Filename & Comment	Time Step (min)	Drainage Area (ha)	Peak Flow (cms)	Time to Peak (hrs)	Runoff Volume (mm)	Runoff Volume (cu.m)	Duration of flow (hrs)	Average flow (cms)
——●——	H-VG1-1.100 : VG1-1	5.00	336.70	4.021	17.583	53.73	1.809E+05	49.417	1.017

Hydrograph Table:

Hydrograph Filename : Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-VG1-1.100
Comment in file : VG1-1

# TIME hrs	FLOW # cms #	TIME hrs	FLOW # cms #	TIME hrs	FLOW # cms #	TIME hrs	FLOW # cms #	TIME hrs	FLOW # cms #	TIME hrs	FLOW # cms #	TIME hrs	FLOW # cms #	TIME hrs	FLOW # cms #	TIME hrs	FLOW # cms #	TIME hrs	FLOW # cms #
0.00	0.000	4.92	0.001	9.83	0.085	14.75	2.960	19.67	3.721	24.58	2.270	29.50	1.018	34.42	0.332	39.33	0.068	44.25	0.013
0.08	0.000	5.00	0.001	9.92	0.089	14.83	3.026	19.75	3.700	24.67	2.247	29.58	1.001	34.50	0.325	39.42	0.067	44.33	0.012
0.17	0.000	5.08	0.001	10.00	0.093	14.92	3.090	19.83	3.679	24.75	2.224	29.67	0.984	34.58	0.318	39.50	0.065	44.42	0.012
0.25	0.000	5.17	0.002	10.08	0.097	15.00	3.152	19.92	3.657	24.83	2.202	29.75	0.968	34.67	0.311	39.58	0.063	44.50	0.012
0.33	0.000	5.25	0.002	10.17	0.102	15.08	3.211	20.00	3.635	24.92	2.179	29.83	0.951	34.75	0.305	39.67	0.062	44.58	0.011
0.42	0.000	5.33	0.002	10.25	0.106	15.17	3.268	20.08	3.613	25.00	2.156	29.92	0.935	34.83	0.298	39.75	0.060	44.67	0.011
0.50	0.000	5.42	0.002	10.33	0.111	15.25	3.323	20.17	3.590	25.08	2.133	30.00	0.919	34.92	0.292	39.83	0.059	44.75	0.010
0.58	0.000	5.50	0.003	10.42	0.116	15.33	3.375	20.25	3.568	25.17	2.110	30.08	0.903	35.00	0.286	39.92	0.057	44.83	0.010
0.67	0.000	5.58	0.003	10.50	0.121	15.42	3.425	20.33	3.544	25.25	2.087	30.17	0.888	35.08	0.280	40.00	0.056	44.92	0.010
0.75	0.000	5.67	0.003	10.58	0.127	15.50	3.473	20.42	3.521	25.33	2.064	30.25	0.872	35.17	0.274	40.08	0.054	45.00	0.009
0.83	0.000	5.75	0.004	10.67	0.132	15.58	3.519	20.50	3.497	25.42	2.041	30.33	0.857	35.25	0.268	40.17	0.053	45.08	0.009
0.92	0.000	5.83	0.004	10.75	0.138	15.67	3.562	20.58	3.473	25.50	2.018	30.42	0.842	35.33	0.262	40.25	0.051	45.17	0.009
1.00	0.000	5.92	0.005	10.83	0.144	15.75	3.603	20.67	3.449	25.58	1.995	30.50	0.827	35.42	0.257	40.33	0.050	45.25	0.008
1.08	0.000	6.00	0.005	10.92	0.151	15.83	3.642	20.75	3.425	25.67	1.972	30.58	0.812	35.50	0.251	40.42	0.049	45.33	0.008
1.17	0.000	6.08	0.005	11.00	0.158	15.92	3.679	20.83	3.400	25.75	1.949	30.67	0.798	35.58	0.246	40.50	0.047	45.42	0.008
1.25	0.000	6.17	0.006	11.08	0.165	16.00	3.714	20.92	3.375	25.83	1.926	30.75	0.784	35.67	0.240	40.58	0.046	45.50	0.007
1.33	0.000	6.25	0.007	11.17	0.173	16.08	3.747	21.00	3.350	25.92	1.903	30.83	0.770	35.75	0.235	40.67	0.045	45.58	0.007
1.42	0.000	6.33	0.007	11.25	0.181	16.17	3.778	21.08	3.325	26.00	1.880	30.92	0.756	35.83	0.230	40.75	0.044	45.67	0.007
1.50	0.000	6.42	0.008	11.33	0.190	16.25	3.807	21.17	3.300	26.08	1.856	31.00	0.742	35.92	0.225	40.83	0.042	45.75	0.007
1.58	0.000	6.50	0.009	11.42	0.199	16.33	3.834	21.25	3.274	26.17	1.834	31.08	0.729	36.00	0.220	40.92	0.041	45.83	0.006
1.67	0.000	6.58	0.009	11.50	0.209	16.42	3.859	21.33	3.248	26.25	1.811	31.17	0.716	36.08	0.215	41.00	0.040	45.92	0.006
1.75	0.000	6.67	0.010	11.58	0.220	16.50	3.882	21.42	3.222	26.33	1.788	31.25	0.703	36.17	0.210	41.08	0.039	46.00	0.006
1.83	0.000	6.75	0.011	11.67	0.232	16.58	3.903	21.50	3.197	26.42	1.766	31.33	0.690	36.25	0.206	41.17	0.038	46.08	0.006
1.92	0.000	6.83	0.012	11.75	0.246	16.67	3.922	21.58	3.171	26.50	1.743	31.42	0.677	36.33	0.201	41.25	0.037	46.17	0.006
2.00	0.000	6.92	0.013	11.83	0.264	16.75	3.939	21.67	3.145	26.58	1.721	31.50	0.664	36.42	0.197	41.33	0.036	46.25	0.005
2.08	0.000	7.00	0.013	11.92	0.287	16.83	3.955	21.75	3.118	26.67	1.698	31.58	0.652	36.50	0.192	41.42	0.035	46.33	0.005
2.17	0.000	7.08	0.014	12.00	0.317	16.92	3.969	21.83	3.092	26.75	1.676	31.67	0.640	36.58	0.188	41.50	0.034	46.42	0.005
2.25	0.000	7.17	0.015	12.08	0.357	17.00	3.981	21.92	3.066	26.83	1.654	31.75	0.628	36.67	0.183	41.58	0.033	46.50	0.005
2.33	0.000	7.25	0.016	12.17	0.404	17.08	3.991	22.00	3.040	26.92	1.632	31.83	0.616	36.75	0.179	41.67	0.032	46.58	0.004
2.42	0.000	7.33	0.018	12.25	0.458	17.17	4.000	22.08	3.014	27.00	1.610	31.92	0.605	36.83	0.175	41.75	0.031	46.67	0.004
2.50	0.000	7.42	0.019	12.33	0.518	17.25	4.007	22.17	2.987	27.08	1.588	32.00	0.593	36.92	0.170	41.83	0.030	46.75	0.004
2.58	0.000	7.50	0.020	12.42	0.584	17.33	4.013	22.25	2.961	27.17	1.566	32.08	0.582	37.00	0.166	41.92	0.030	46.83	0.004
2.67	0.000	7.58	0.021	12.50	0.656	17.42	4.017	22.33	2.935	27.25	1.545	32.17	0.571	37.08	0.161	42.00	0.029	46.92	0.004
2.75	0.000	7.67	0.023	12.58	0.732	17.50	4.020	22.42	2.909	27.33	1.523	32.25	0.560	37.17	0.154	42.08	0.028	47.00	0.004
2.83	0.000	7.75	0.024	12.67	0.812	17.58	4.021	22.50	2.883	27.42	1.502	32.33	0.549	37.25	0.147	42.17	0.027	47.08	0.003
2.92	0.000	7.83	0.025	12.75	0.895	17.67	4.021	22.58	2.857	27.50	1.480	32.42	0.539	37.33	0.138	42.25	0.026	47.17	0.003
3.00	0.000	7.92	0.027	12.83	0.982	17.75	4.020	22.67	2.831	27.58	1.459	32.50	0.528	37.42	0.128	42.33	0.026	47.25	0.003
3.08	0.000	8.00	0.029	12.92	1.070	17.83	4.017	22.75	2.805	27.67	1.438	32.58	0.518	37.50	0.124	42.42	0.025	47.33	0.003
3.17	0.000	8.08	0.030	13.00	1.160	17.92	4.013	22.83	2.779	27.75	1.417	32.67	0.508	37.58	0.121	42.50	0.024	47.42	0.003
3.25	0.000	8.17	0.032	13.08	1.252	18.00	4.008	22.92	2.753	27.83	1.397	32.75	0.498	37.67	0.117	42.58	0.024	47.50	0.003
3.33	0.000	8.25	0.034	13.17	1.345	18.08	4.002	23.00	2.728	27.92	1.376	32.83	0.488	37.75	0.114	42.67	0.023	47.58	0.002
3.42	0.000	8.33	0.036	13.25	1.439	18.17	3.995	23.08	2.702	28.00	1.356	32.92	0.479	37.83	0.110	42.75	0.022	47.67	0.002
3.50	0.000	8.42	0.038	13.33	1.532	18.25	3.986	23.17	2.677	28.08	1.335	33.00	0.469	37.92	0.107	42.83	0.022	47.75	0.002
3.58	0.000	8.50	0.040	13.42	1.626	18.33	3.977	23.25	2.652	28.17	1.315	33.08	0.460	38.00	0.104	42.92	0.021	47.83	0.002
3.67	0.000	8.58	0.042	13.50	1.720	18.42	3.966	23.33	2.627	28.25	1.295	33.17	0.451	38.08	0.102	43.00	0.020	47.92	0.002
3.75	0.000	8.67	0.044	13.58	1.813	18.50	3.955	23.42	2.602	28.33	1.276	33.25	0.442	38.17	0.099	43.08	0.020	48.00	0.002
3.83	0.000	8.75	0.046	13.67	1.905	18.58	3.943	23.50	2.577	28.42	1.256	33.33	0.433	38.25	0.096	43.17	0.019	48.08	0.002
3.92	0.000	8.83	0.048	13.75	1.996	18.67	3.930	23.58	2.553	28.50	1.237	33.42	0.425	38.33	0.094	43.25	0.019	48.17	0.002
4.00	0.000	8.92	0.051	13.83	2.086	18.75	3.916	23.67	2.528	28.58	1.217	33.50	0.416	38.42	0.091	43.33	0.018	48.25	0.001
4.08	0.000	9.00	0.054	13.92	2.175	18.83	3.902	23.75	2.504	28.67	1.198	33.58	0.408	38.50	0.089	43.42	0.018	48.33	0.001
4.17	0.000	9.08	0.056	14.00	2.262	18.92	3.886	23.83	2.480	28.75	1.179	33.67	0.399	38.58	0.087	43.50	0.017	48.42	0.001
4.25	0.000	9.17	0.059	14.08	2.348	19.00	3.870	23.92	2.456	28.83	1.161	33.75	0.391	38.67	0.084	43.58	0.017	48.50	0.001
4.33	0.000	9.25	0.062	14.17	2.431	19.08	3.854	24.00	2.432	28.92	1.142	33.83	0.383	38.75	0.082	43.67	0.016	48.58	0.001
4.42	0.000	9.33	0.065	14.25	2.513	19.17	3.836	24.08	2.409	29.00	1.124	33.92	0.376	38.83	0.080	43.75	0.016	48.67	0.001
4.50	0.000	9.42	0.068	14.33	2.593	19.25	3.818	24.17	2.386	29.08	1.106	34.00	0.368	38.92	0.078	43.83	0.015	48.75	0.001
4.58	0.000	9.50	0.071	14.42	2.671	19.33	3.800	24.25	2.362	29.17	1.088	34.08	0.360	39.00	0.076	43.92	0.015	48.83	0.001
4.67	0.001	9.58	0.074	14.50	2.746	19.42	3.781	24.33	2.339	29.25	1.070	34.17	0.353	39.08	0.074	44.00	0.014	48.92	0.001
4.75	0.001	9.67	0.078	14.58	2.820	19.50	3.761	24.42	2.316	29.33	1.052	34.25	0.346	39.17	0.072	44.08	0.014	49.00	0.000
4.83	0.001	9.75	0.082	14.67	2.891	19.58	3.741	24.50	2.293	29.42	1.035	34.33	0.339	39.25	0.070	44.17	0.013	49.08	0.000

PERTHST (VG SUMMER)



Hydrograph Statistics:

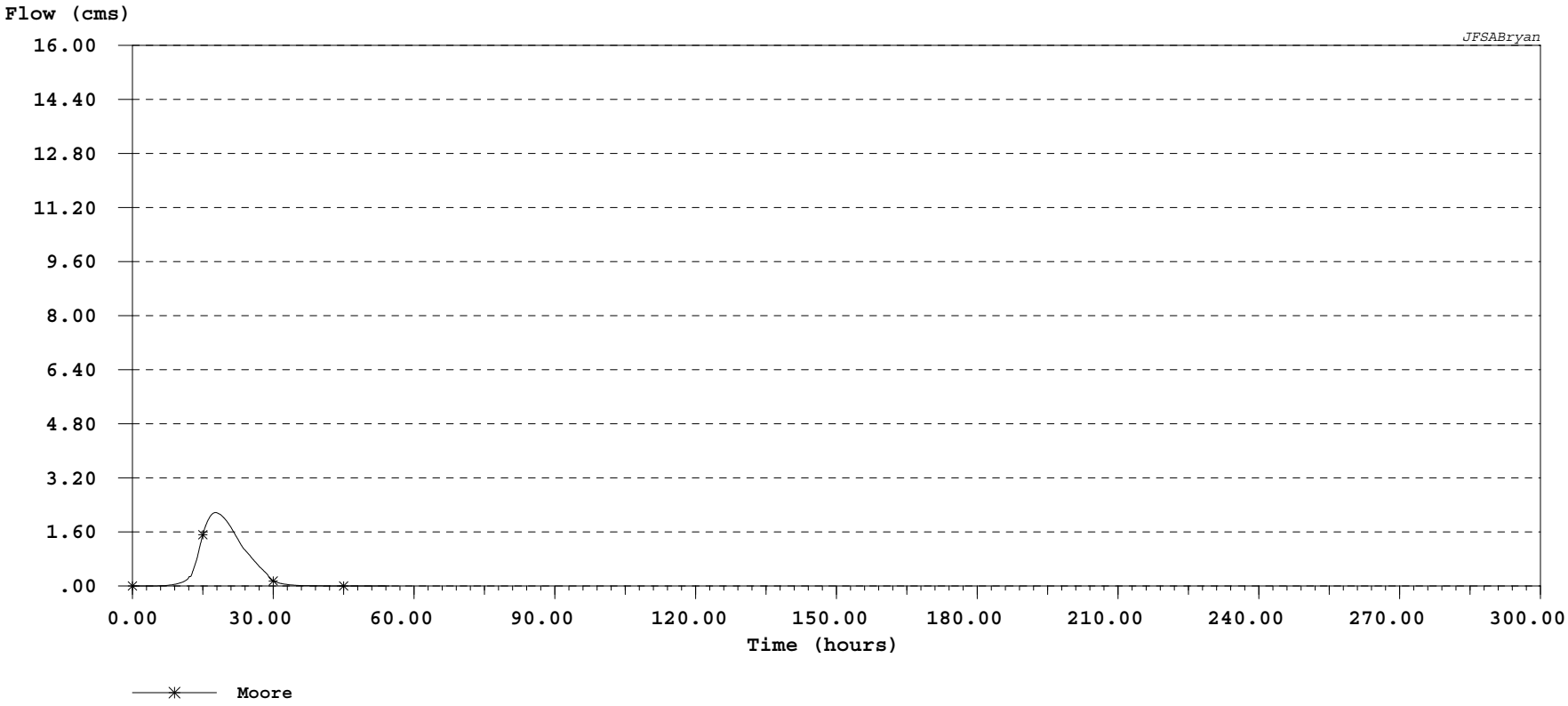
Legend	Filename & Comment	Time Step (min)	Drainage Area (ha)	Peak Flow (cms)	Time to Peak (hrs)	Runoff Volume (mm)	Runoff Volume (cu.m)	Duration of flow (hrs)	Average flow (cms)
——■——	H-PERTHS.100: perthst	5.00	855.70	11.434	16.000	59.41	5.084E+05	63.250	2.233

Hydrograph Table:

Hydrograph Filename : Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-PERTHS.100
Comment in file : perthst

TIME hrs	FLOW # cms	TIME hrs	FLOW # cms	TIME hrs	FLOW # cms	TIME hrs	FLOW # cms	TIME hrs	FLOW # cms	TIME hrs	FLOW # cms	TIME hrs	FLOW # cms	TIME hrs	FLOW # cms	TIME hrs	FLOW # cms	TIME hrs	FLOW # cms	TIME hrs	FLOW # cms
0.00	0.000	5.75	0.090	11.50	1.401	17.25	10.991	23.00	6.504	28.75	2.566	34.50	0.608	40.25	0.124	46.00	0.026	51.75	0.004	57.50	0.001
0.08	0.000	5.83	0.093	11.58	1.543	17.33	10.946	23.08	6.451	28.83	2.519	34.58	0.594	40.33	0.121	46.08	0.025	51.83	0.004	57.58	0.001
0.17	0.000	5.92	0.097	11.67	1.770	17.42	10.896	23.17	6.398	28.92	2.473	34.67	0.581	40.42	0.119	46.17	0.024	51.92	0.004	57.67	0.001
0.25	0.000	6.00	0.100	11.75	2.275	17.50	10.843	23.25	6.346	29.00	2.428	34.75	0.567	40.50	0.116	46.25	0.024	52.00	0.004	57.75	0.000
0.33	0.000	6.08	0.104	11.83	2.977	17.58	10.786	23.33	6.294	29.08	2.383	34.83	0.554	40.58	0.114	46.33	0.023	52.08	0.004	57.83	0.000
0.42	0.000	6.17	0.108	11.92	4.022	17.67	10.726	23.42	6.242	29.17	2.336	34.92	0.540	40.67	0.111	46.42	0.023	52.17	0.003	57.92	0.000
0.50	0.000	6.25	0.114	12.00	5.240	17.75	10.676	23.50	6.190	29.25	2.291	35.00	0.527	40.75	0.109	46.50	0.022	52.25	0.003	58.00	0.000
0.58	0.000	6.33	0.119	12.08	6.093	17.83	10.621	23.58	6.138	29.33	2.246	35.08	0.515	40.83	0.107	46.58	0.022	52.33	0.003	58.08	0.000
0.67	0.000	6.42	0.123	12.17	6.420	17.92	10.549	23.67	6.087	29.42	2.202	35.17	0.503	40.92	0.104	46.67	0.021	52.42	0.003	58.17	0.000
0.75	0.002	6.50	0.128	12.25	6.125	18.00	10.479	23.75	6.036	29.50	2.157	35.25	0.492	41.00	0.102	46.75	0.021	52.50	0.003	58.25	0.000
0.83	0.006	6.58	0.133	12.33	5.730	18.08	10.426	23.83	5.984	29.58	2.113	35.33	0.482	41.08	0.100	46.83	0.020	52.58	0.003	58.33	0.000
0.92	0.013	6.67	0.138	12.42	5.562	18.17	10.367	23.92	5.932	29.67	2.068	35.42	0.472	41.17	0.098	46.92	0.020	52.67	0.003	58.42	0.000
1.00	0.019	6.75	0.143	12.50	5.560	18.25	10.292	24.00	5.879	29.75	2.024	35.50	0.462	41.25	0.096	47.00	0.019	52.75	0.003	58.50	0.000
1.08	0.023	6.83	0.148	12.58	5.651	18.33	10.233	24.08	5.824	29.83	1.981	35.58	0.453	41.33	0.094	47.08	0.018	52.83	0.003	58.58	0.000
1.17	0.026	6.92	0.153	12.67	5.802	18.42	10.170	24.17	5.767	29.92	1.938	35.67	0.443	41.42	0.092	47.17	0.018	52.92	0.003	58.67	0.000
1.25	0.028	7.00	0.158	12.75	5.989	18.50	10.091	24.25	5.707	30.00	1.898	35.75	0.434	41.50	0.090	47.25	0.018	53.00	0.003	58.75	0.000
1.33	0.029	7.08	0.165	12.83	6.220	18.58	10.031	24.33	5.650	30.08	1.858	35.83	0.425	41.58	0.088	47.33	0.017	53.08	0.003	58.83	0.000
1.42	0.030	7.17	0.172	12.92	6.495	18.67	9.967	24.42	5.593	30.17	1.818	35.92	0.416	41.67	0.086	47.42	0.017	53.17	0.002	58.92	0.000
1.50	0.031	7.25	0.181	13.00	6.798	18.75	9.885	24.50	5.538	30.25	1.778	36.00	0.407	41.75	0.084	47.50	0.016	53.25	0.002	59.00	0.000
1.58	0.031	7.33	0.189	13.08	7.112	18.83	9.823	24.58	5.483	30.33	1.737	36.08	0.398	41.83	0.082	47.58	0.016	53.33	0.002	59.08	0.000
1.67	0.031	7.42	0.196	13.17	7.425	18.92	9.758	24.67	5.427	30.42	1.697	36.17	0.390	41.92	0.081	47.67	0.015	53.42	0.002	59.17	0.000
1.75	0.032	7.50	0.204	13.25	7.728	19.00	9.685	24.75	5.371	30.50	1.658	36.25	0.381	42.00	0.079	47.75	0.015	53.50	0.002	59.25	0.000
1.83	0.032	7.58	0.212	13.33	8.027	19.08	9.615	24.83	5.315	30.58	1.618	36.33	0.373	42.08	0.078	47.83	0.014	53.58	0.002	59.33	0.000
1.92	0.032	7.67	0.220	13.42	8.320	19.17	9.546	24.92	5.257	30.67	1.579	36.42	0.365	42.17	0.076	47.92	0.014	53.67	0.002	59.42	0.000
2.00	0.032	7.75	0.227	13.50	8.603	19.25	9.478	25.00	5.199	30.75	1.542	36.50	0.358	42.25	0.075	48.00	0.014	53.75	0.002	59.50	0.000
2.08	0.032	7.83	0.235	13.58	8.875	19.33	9.410	25.08	5.141	30.83	1.505	36.58	0.350	42.33	0.073	48.08	0.013	53.83	0.002	59.58	0.000
2.17	0.033	7.92	0.244	13.67	9.134	19.42	9.342	25.17	5.082	30.92	1.469	36.67	0.342	42.42	0.072	48.17	0.013	53.92	0.002	59.67	0.000
2.25	0.035	8.00	0.252	13.75	9.372	19.50	9.274	25.25	5.023	31.00	1.434	36.75	0.335	42.50	0.070	48.25	0.012	54.00	0.002	59.75	0.000
2.33	0.036	8.08	0.262	13.83	9.594	19.58	9.206	25.33	4.962	31.08	1.401	36.83	0.328	42.58	0.069	48.33	0.012	54.08	0.002	59.83	0.000
2.42	0.036	8.17	0.274	13.92	9.802	19.67	9.138	25.42	4.901	31.17	1.369	36.92	0.321	42.67	0.068	48.42	0.012	54.17	0.002	59.92	0.000
2.50	0.037	8.25	0.286	14.00	9.996	19.75	9.065	25.50	4.841	31.25	1.338	37.00	0.314	42.75	0.066	48.50	0.011	54.25	0.002	60.00	0.000
2.58	0.037	8.33	0.299	14.08	10.171	19.83	8.989	25.58	4.780	31.33	1.309	37.08	0.307	42.83	0.065	48.58	0.011	54.33	0.002	60.08	0.000
2.67	0.038	8.42	0.311	14.17	10.326	19.92	8.916	25.67	4.716	31.42	1.281	37.17	0.300	42.92	0.064	48.67	0.011	54.42	0.002	60.17	0.000
2.75	0.038	8.50	0.323	14.25	10.464	20.00	8.835	25.75	4.652	31.50	1.254	37.25	0.292	43.00	0.062	48.75	0.011	54.50	0.002	60.25	0.000
2.83	0.038	8.58	0.336	14.33	10.590	20.08	8.759	25.83	4.587	31.58	1.228	37.33	0.284	43.08	0.066	48.83	0.010	54.58	0.002	60.33	0.000
2.92	0.038	8.67	0.349	14.42	10.702	20.17	8.683	25.92	4.522	31.67	1.203	37.42	0.276	43.17	0.060	48.92	0.010	54.67	0.001	60.42	0.000
3.00	0.038	8.75	0.364	14.50	10.802	20.25	8.609	26.00	4.457	31.75	1.179	37.50	0.267	43.25	0.058	49.00	0.010	54.75	0.001	60.50	0.000
3.08	0.039	8.83	0.378	14.58	10.894	20.33	8.537	26.08	4.393	31.83	1.156	37.58	0.258	43.33	0.057	49.08	0.010	54.83	0.001	60.58	0.000
3.17	0.039	8.92	0.392	14.67	10.977	20.42	8.467	26.17	4.330	31.92	1.133	37.67	0.250	43.42	0.056	49.17	0.009	54.92	0.001	60.67	0.000
3.25	0.039	9.00	0.407	14.75	11.053	20.50	8.398	26.25	4.268	32.00	1.111	37.75	0.243	43.50	0.055	49.25	0.009	55.00	0.001	60.75	0.000
3.33	0.039	9.08	0.423	14.83	11.124	20.58	8.330	26.33	4.207	32.08	1.090	37.83	0.236	43.58	0.053	49.33	0.009	55.08	0.001	60.83	0.000
3.42	0.040	9.17	0.441	14.92	11.189	20.67	8.262	26.42	4.145	32.17	1.069	37.92	0.230	43.67	0.052	49.42	0.009	55.17	0.001	60.92	0.000
3.50	0.040	9.25	0.460	15.00	11.247	20.75	8.195	26.50	4.083	32.25	1.048	38.00	0.224	43.75	0.051	49.50	0.008	55.25	0.001	61.00	0.000
3.58	0.040	9.33	0.480	15.08	11.297	20.83	8.127	26.58	4.021	32.33	1.027	38.08	0.219	43.83	0.050	49.58	0.008	55.33	0.001	61.08	0.000
3.67	0.041	9.42	0.499	15.17	11.326	20.92	8.059	26.67	3.959	32.42	1.007	38.17	0.214	43.92	0.048	49.67	0.008	55.42	0.001	61.17	0.000
3.75	0.041	9.50	0.519	15.25	11.342	21.00	7.992	26.75	3.897	32.50	0.986	38.25	0.209	44.00	0.047	49.75	0.008	55.50	0.001	61.25	0.000
3.83	0.042	9.58	0.538	15.33	11.351	21.08	7.924	26.83	3.835	32.58	0.965	38.33	0.204	44.08	0.046	49.83	0.007	55.58	0.001	61.33	0.000
3.92	0.042	9.67	0.558	15.42	11.364	21.17	7.857	26.92	3.772	32.67	0.945	38.42	0.199	44.17	0.045	49.92	0.007	55.67	0.001	61.42	0.000
4.00	0.043	9.75	0.580	15.50	11.368	21.25	7.791	27.00	3.708	32.75	0.925	38.50	0.195	44.25	0.044	50.00	0.007	55.75	0.001	61.50	0.000
4.08	0.045	9.83	0.600	15.58	11.380	21.33	7.724	27.08	3.644	32.83	0.905	38.58	0.190	44.33	0.043	50.08	0.007	55.83	0.001	61.58	0.000
4.17	0.047	9.92	0.619	15.67	11.395	21.42	7.657	27.17	3.581	32.92	0.886	38.67	0.186	44.42	0.042	50.17	0.007	55.92	0.001	61.67	0.000
4.25	0.050	10.00	0.638	15.75	11.409	21.50	7.591	27.25	3.520	33.00	0.869	38.75	0.182	44.50	0.041	50.25	0.007	56.00	0.001	61.75	0.000
4.33	0.052	10.08	0.661	15.83	11.421	21.58	7.525	27.33	3.459	33.08	0.851	38.83	0.178	44.58	0.040	50.33	0.006	56.08	0.001	61.83	0.000
4.42	0.054	10.17	0.687	15.92	11.428	21.67	7.459	27.42	3.400	33.17	0.835	38.92	0.174	44.67	0.039	50.42	0.006	56.17	0.001	61.92	0.000
4.50	0.056	10.25	0.717	16.00	11.434	21.75	7.393	27.50	3.342	33.25	0.818	39.00	0.170	44.75	0.038	50.50	0.006	56.25	0.001	62.00	0.000
4.58	0.058	10.33	0.746	16.08	11.431	21.83	7.326	27.58	3.285	33.33	0.802	39.08	0.167	44.83	0.037	50.58	0.006	56.33	0.001	62.08	0.000
4.67	0.060	10.42	0.775	16.17	11.423	21.92	7.258	27.67	3.230	33.42	0.787	39.17	0.163	44.92	0.036	50.67	0.006	56.42	0.001	62.17	0.000
4.75	0.062	10.50	0.804	16.25	11.407	22.00	7.191	27.75	3.174	33.50	0.771	39.25	0.160	45.00	0.035	50.75	0.006	56.50	0.001	62.25	0.000
4.83	0.064	10.58	0.837	16.33	11.391	22.08	7.128	27.83	3.120	33.58	0.756	39.33	0.156	45.08	0.034	50.83	0.005	56.58	0.001	62.33	0.000
4.92	0.065	10.67	0.876	16.42	11.371	22.17	7.068	27.92	3.066	33.67	0.741	39.42	0.153	45.17	0.033	50.92	0.005	56.67	0.001	62.42	0.000
5.00	0.067	10.75	0.919	16.50	11.359	22.25	7.008	28.00	3.013	33.75	0.727	39.50	0.150	45.25	0.032	51.00	0.005	56.75	0.001	62.50	0.000
5.08	0.069	10.83	0.961	16.58	11.322	22.33	6.949	28.08	2.962	33.83	0.713	39.58	0.147	45.33	0.031	51.08	0.005	56.83	0.001	62.58	0.000
5.17	0.072	10.92	1.003	16.67	11.284	22.42	6.890	28.17	2.912	33.92	0.699	39.67	0.144	45.42	0.031	51.17	0.005	56.92	0.001	62.67	0.000
5.25	0.074	11.00	1.044	16.75	11.259	22.50	6.830	28.25	2.863	34.00	0.685	39.75	0.141	45.50	0.030	51.25	0.005	57.00	0.001	62.75	0.000
5.33	0.076	11.08	1.093	16.83	11.226	22.58	6.772	28.33	2.813	34.08	0.672	39.83	0.138	45.58	0.029	51.33	0.005	57.08	0.001	62.83	0.000
5.42	0.079	11.17	1.151	16.92	11.189	22.67	6.716	28.42	2.762	34.17	0.659	39.92	0.135	45.67	0.028	51.42	0.004	57.17	0.001	62.92	0.000
5.50	0.082	11.25	1.219	17.00	11.148	22.75	6.662	28.50	2.712	34.25	0.646	40.00	0.132	45.75	0.028	51.50	0.004	57.25	0.001	63.00	0.000
5.58	0.084	11.33	1.281	17.08	11.103	22.83	6.610	28.58	2.663	34.33	0.633	40.08	0.129	45.83	0.027	51.58	0.004	57.33	0.001	63.08	0.000
5.67	0.087	11.42	1.342	17.17	11.046	22.92	6.557	28.67	2.614	34.42	0.621	40.17	0.127	45.92	0.026	51.67	0.004	57.42	0.001	63.17	0.000

MOORE (VG SUMMER)



Hydrograph Statistics:

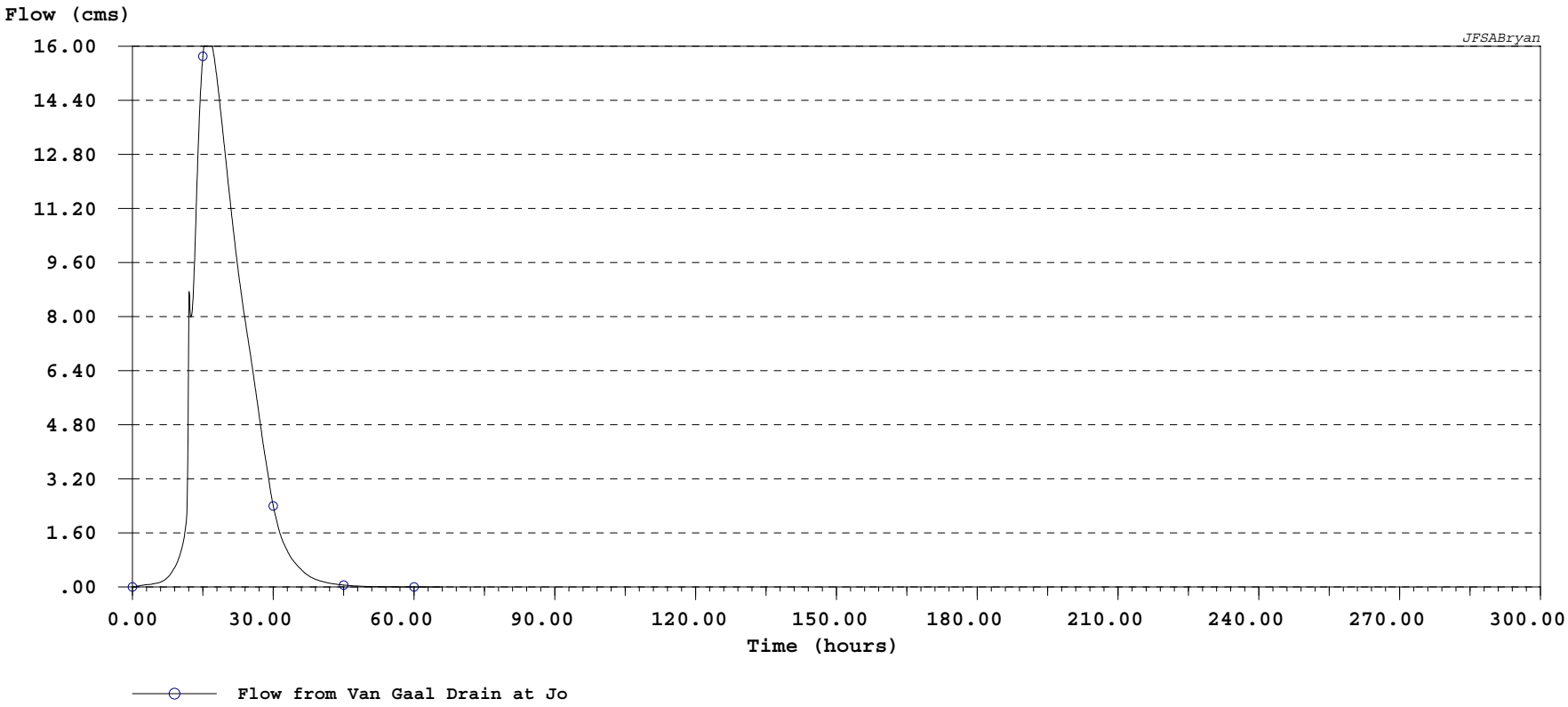
Legend	Filename & Comment	Time Step (min)	Drainage Area (ha)	Peak Flow (cms)	Time to Peak (hrs)	Runoff Volume (mm)	Runoff Volume (cu.m)	Duration of flow (hrs)	Average flow (cms)
——✳——	H-MOORE.100 : Moore	5.00	133.40	2.172	17.750	61.15	8.157E+04	54.667	0.415

Hydrograph Table:

Hydrograph Filename : Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-MOORE.100
Comment in file : Moore

# TIME hrs	FLOW # cms	# TIME hrs	FLOW # cms	# TIME hrs	FLOW # cms	# TIME hrs	FLOW # cms	# TIME hrs	FLOW # cms	# TIME hrs	FLOW # cms	# TIME hrs	FLOW # cms	# TIME hrs	FLOW # cms	# TIME hrs	FLOW # cms	# TIME hrs	FLOW # cms	# TIME hrs	FLOW # cms
0.00	0.000	5.33	0.002	10.67	0.115	16.00	1.916	21.33	1.654	26.67	0.635	32.00	0.064	37.33	0.006	42.67	0.001	48.00	0.000	53.33	0.000
0.08	0.000	5.42	0.002	10.75	0.119	16.08	1.940	21.42	1.634	26.75	0.618	32.08	0.062	37.42	0.006	42.75	0.001	48.08	0.000	53.42	0.000
0.17	0.000	5.50	0.002	10.83	0.124	16.17	1.962	21.50	1.614	26.83	0.606	32.17	0.060	37.50	0.006	42.83	0.001	48.17	0.000	53.50	0.000
0.25	0.000	5.58	0.002	10.92	0.130	16.25	1.984	21.58	1.595	26.92	0.592	32.25	0.058	37.58	0.006	42.92	0.001	48.25	0.000	53.58	0.000
0.33	0.000	5.67	0.003	11.00	0.135	16.33	2.005	21.67	1.574	27.00	0.578	32.33	0.056	37.67	0.005	43.00	0.001	48.33	0.000	53.67	0.000
0.42	0.000	5.75	0.003	11.08	0.141	16.42	2.026	21.75	1.554	27.08	0.568	32.42	0.054	37.75	0.005	43.08	0.001	48.42	0.000	53.75	0.000
0.50	0.000	5.83	0.004	11.17	0.147	16.50	2.046	21.83	1.534	27.17	0.556	32.50	0.053	37.83	0.005	43.17	0.001	48.50	0.000	53.83	0.000
0.58	0.000	5.92	0.004	11.25	0.154	16.58	2.063	21.92	1.514	27.25	0.545	32.58	0.051	37.92	0.005	43.25	0.001	48.58	0.000	53.92	0.000
0.67	0.000	6.00	0.004	11.33	0.161	16.67	2.080	22.00	1.493	27.33	0.534	32.67	0.049	38.00	0.005	43.33	0.001	48.67	0.000	54.00	0.000
0.75	0.000	6.08	0.005	11.42	0.168	16.75	2.094	22.08	1.472	27.42	0.526	32.75	0.047	38.08	0.005	43.42	0.001	48.75	0.000	54.08	0.000
0.83	0.000	6.17	0.005	11.50	0.176	16.83	2.108	22.17	1.453	27.50	0.516	32.83	0.046	38.17	0.004	43.50	0.001	48.83	0.000	54.17	0.000
0.92	0.000	6.25	0.006	11.58	0.184	16.92	2.120	22.25	1.434	27.58	0.502	32.92	0.044	38.25	0.004	43.58	0.001	48.92	0.000	54.25	0.000
1.00	0.000	6.33	0.007	11.67	0.194	17.00	2.129	22.33	1.415	27.67	0.492	33.00	0.043	38.33	0.004	43.67	0.001	49.00	0.000	54.33	0.000
1.08	0.000	6.42	0.007	11.75	0.204	17.08	2.139	22.42	1.395	27.75	0.483	33.08	0.041	38.42	0.004	43.75	0.001	49.08	0.000	54.42	0.000
1.17	0.000	6.50	0.008	11.83	0.216	17.17	2.147	22.50	1.375	27.83	0.470	33.17	0.040	38.50	0.004	43.83	0.001	49.17	0.000	54.50	0.000
1.25	0.000	6.58	0.009	11.92	0.231	17.25	2.154	22.58	1.354	27.92	0.457	33.25	0.038	38.58	0.004	43.92	0.001	49.25	0.000	54.58	0.000
1.33	0.000	6.67	0.009	12.00	0.249	17.33	2.160	22.67	1.334	28.00	0.444	33.33	0.037	38.67	0.004	44.00	0.001	49.33	0.000	54.67	0.000
1.42	0.000	6.75	0.010	12.08	0.274	17.42	2.166	22.75	1.314	28.08	0.434	33.42	0.036	38.75	0.004	44.08	0.001	49.42	0.000	54.75	0.000
1.50	0.000	6.83	0.011	12.17	0.281	17.50	2.170	22.83	1.294	28.17	0.422	33.50	0.035	38.83	0.003	44.17	0.001	49.50	0.000	54.83	0.000
1.58	0.000	6.92	0.012	12.25	0.274	17.58	2.171	22.92	1.274	28.25	0.413	33.58	0.034	38.92	0.003	44.25	0.001	49.58	0.000	54.92	0.000
1.67	0.000	7.00	0.013	12.33	0.276	17.67	2.172	23.00	1.254	28.33	0.403	33.67	0.032	39.00	0.003	44.33	0.001	49.67	0.000	55.00	0.000
1.75	0.000	7.08	0.014	12.42	0.285	17.75	2.172	23.08	1.234	28.42	0.388	33.75	0.031	39.08	0.003	44.42	0.001	49.75	0.000	55.08	0.000
1.83	0.000	7.17	0.015	12.50	0.298	17.83	2.171	23.17	1.215	28.50	0.376	33.83	0.030	39.17	0.003	44.50	0.001	49.83	0.000	55.17	0.000
1.92	0.000	7.25	0.016	12.58	0.321	17.92	2.169	23.25	1.196	28.58	0.365	33.92	0.029	39.25	0.003	44.58	0.001	49.92	0.000	55.25	0.000
2.00	0.000	7.33	0.017	12.67	0.356	18.00	2.165	23.33	1.177	28.67	0.356	34.00	0.028	39.33	0.003	44.67	0.001	50.00	0.000	55.33	0.000
2.08	0.000	7.42	0.018	12.75	0.393	18.08	2.161	23.42	1.158	28.75	0.343	34.08	0.027	39.42	0.003	44.75	0.001	50.08	0.000	55.42	0.000
2.17	0.000	7.50	0.019	12.83	0.431	18.17	2.155	23.50	1.139	28.83	0.327	34.17	0.026	39.50	0.003	44.83	0.000	50.17	0.000	55.50	0.000
2.25	0.000	7.58	0.020	12.92	0.461	18.25	2.149	23.58	1.123	28.92	0.307	34.25	0.025	39.58	0.003	44.92	0.000	50.25	0.000	55.58	0.000
2.33	0.000	7.67	0.021	13.00	0.492	18.33	2.142	23.67	1.111	29.00	0.283	34.33	0.024	39.67	0.003	45.00	0.000	50.33	0.000	55.67	0.000
2.42	0.000	7.75	0.023	13.08	0.526	18.42	2.138	23.75	1.098	29.08	0.263	34.42	0.024	39.75	0.002	45.08	0.000	50.42	0.000	55.75	0.000
2.50	0.000	7.83	0.024	13.17	0.563	18.50	2.134	23.83	1.086	29.17	0.245	34.50	0.023	39.83	0.002	45.17	0.000	50.50	0.000	55.83	0.000
2.58	0.000	7.92	0.025	13.25	0.600	18.58	2.127	23.92	1.073	29.25	0.230	34.58	0.022	39.92	0.002	45.25	0.000	50.58	0.000	55.92	0.000
2.67	0.000	8.00	0.027	13.33	0.637	18.67	2.121	24.00	1.061	29.33	0.216	34.67	0.021	40.00	0.002	45.33	0.000	50.67	0.000	56.00	0.000
2.75	0.000	8.08	0.028	13.42	0.671	18.75	2.113	24.08	1.048	29.42	0.204	34.75	0.020	40.08	0.002	45.42	0.000	50.75	0.000	56.08	0.000
2.83	0.000	8.17	0.030	13.50	0.704	18.83	2.104	24.17	1.035	29.50	0.194	34.83	0.020	40.17	0.002	45.50	0.000	50.83	0.000	56.17	0.000
2.92	0.000	8.25	0.031	13.58	0.736	18.92	2.095	24.25	1.022	29.58	0.184	34.92	0.019	40.25	0.002	45.58	0.000	50.92	0.000	56.25	0.000
3.00	0.000	8.33	0.033	13.67	0.770	19.00	2.085	24.33	1.008	29.67	0.175	35.00	0.018	40.33	0.002	45.67	0.000	51.00	0.000	56.33	0.000
3.08	0.000	8.42	0.035	13.75	0.809	19.08	2.074	24.42	0.995	29.75	0.168	35.08	0.018	40.42	0.002	45.75	0.000	51.08	0.000	56.42	0.000
3.17	0.000	8.50	0.037	13.83	0.855	19.17	2.061	24.50	0.982	29.83	0.161	35.17	0.017	40.50	0.002	45.83	0.000	51.17	0.000	56.50	0.000
3.25	0.000	8.58	0.039	13.92	0.907	19.25	2.050	24.58	0.969	29.92	0.154	35.25	0.016	40.58	0.002	45.92	0.000	51.25	0.000	56.58	0.000
3.33	0.000	8.67	0.040	14.00	0.958	19.33	2.040	24.67	0.956	30.00	0.148	35.33	0.016	40.67	0.002	46.00	0.000	51.33	0.000	56.67	0.000
3.42	0.000	8.75	0.042	14.08	1.008	19.42	2.028	24.75	0.943	30.08	0.142	35.42	0.015	40.75	0.002	46.08	0.000	51.42	0.000	56.75	0.000
3.50	0.000	8.83	0.044	14.17	1.058	19.50	2.015	24.83	0.931	30.17	0.137	35.50	0.015	40.83	0.002	46.17	0.000	51.50	0.000	56.83	0.000
3.58	0.000	8.92	0.047	14.25	1.108	19.58	2.003	24.92	0.918	30.25	0.132	35.58	0.014	40.92	0.002	46.25	0.000	51.58	0.000	56.92	0.000
3.67	0.000	9.00	0.049	14.33	1.155	19.67	1.990	25.00	0.905	30.33	0.127	35.67	0.014	41.00	0.002	46.33	0.000	51.67	0.000	57.00	0.000
3.75	0.000	9.08	0.051	14.42	1.203	19.75	1.975	25.08	0.890	30.42	0.123	35.75	0.013	41.08	0.001	46.42	0.000	51.75	0.000	57.08	0.000
3.83	0.000	9.17	0.054	14.50	1.250	19.83	1.961	25.17	0.874	30.50	0.119	35.83	0.013	41.17	0.001	46.50	0.000	51.83	0.000	57.17	0.000
3.92	0.000	9.25	0.056	14.58	1.295	19.92	1.948	25.25	0.859	30.58	0.114	35.92	0.012	41.25	0.001	46.58	0.000	51.92	0.000	57.25	0.000
4.00	0.000	9.33	0.059	14.67	1.340	20.00	1.935	25.33	0.845	30.67	0.111	36.00	0.012	41.33	0.001	46.67	0.000	52.00	0.000	57.33	0.000
4.08	0.000	9.42	0.061	14.75	1.385	20.08	1.920	25.42	0.831	30.75	0.107	36.08	0.011	41.42	0.001	46.75	0.000	52.08	0.000	57.42	0.000
4.17	0.000	9.50	0.064	14.83	1.429	20.17	1.905	25.50	0.817	30.83	0.103	36.17	0.011	41.50	0.001	46.83	0.000	52.17	0.000	57.50	0.000
4.25	0.000	9.58	0.067	14.92	1.474	20.25	1.889	25.58	0.803	30.92	0.100	36.25	0.010	41.58	0.001	46.92	0.000	52.25	0.000	57.58	0.000
4.33	0.000	9.67	0.070	15.00	1.516	20.33	1.873	25.67	0.790	31.00	0.096	36.33	0.010	41.67	0.001	47.00	0.000	52.33	0.000	57.67	0.000
4.42	0.000	9.75	0.073	15.08	1.558	20.42	1.857	25.75	0.776	31.08	0.093	36.42	0.010	41.75	0.001	47.08	0.000	52.42	0.000	57.75	0.000
4.50	0.000	9.83	0.076	15.17	1.598	20.50	1.840	25.83	0.764	31.17	0.090	36.50	0.009	41.83	0.001	47.17	0.000	52.50	0.000	57.83	0.000
4.58	0.000	9.92	0.079	15.25	1.636	20.58	1.823	25.92	0.751	31.25	0.087	36.58	0.009	41.92	0.001	47.25	0.000	52.58	0.000	57.92	0.000
4.67	0.001	10.00	0.083	15.33	1.673	20.67	1.805	26.00	0.738	31.33	0.084	36.67	0.009	42.00	0.001	47.33	0.000	52.67	0.000	58.00	0.000
4.75	0.001	10.08	0.086	15.42	1.709	20.75	1.787	26.08	0.725	31.42	0.082	36.75	0.008	42.08	0.001	47.42	0.000	52.75	0.000	58.08	0.000
4.83	0.001	10.17	0.090	15.50	1.743	20.83	1.769	26.17	0.713	31.50	0.079	36.83	0.008	42.17	0.001	47.50	0.000	52.83	0.000	58.17	0.000
4.92	0.001	10.25	0.093	15.58	1.775	20.92	1.751	26.25	0.700	31.58	0.076	36.92	0.008	42.25	0.001	47.58	0.000	52.92	0.000	58.25	0.000
5.00	0.001	10.33	0.097	15.67	1.806	21.00	1.732	26.33	0.688	31.67	0.074	37.00	0.007	42.33	0.001	47.67	0.000	53.00	0.000	58.33	0.000
5.08	0.001	10.42	0.101	15.75	1.836	21.08	1.713	26.42	0.675	31.75	0.071	37.08	0.007	42.42	0.001	47.75	0.000	53.08	0.000	58.42	0.000
5.17	0.001	10.50	0.106	15.83	1.864	21.17	1.693	26.50	0.663	31.83	0.069	37.17	0.007	42.50	0.001	47.83	0.000	53.17	0.003	58.50	0.000
5.25	0.001	10.58	0.110	15.92	1.891	21.25	1.674	26.58	0.650	31.92	0.067	37.25	0.007	42.58	0.001	47.92	0.000	53.25	0.000	58.58	0.000

JOCKVG (VG SUMMER)



Hydrograph Statistics:

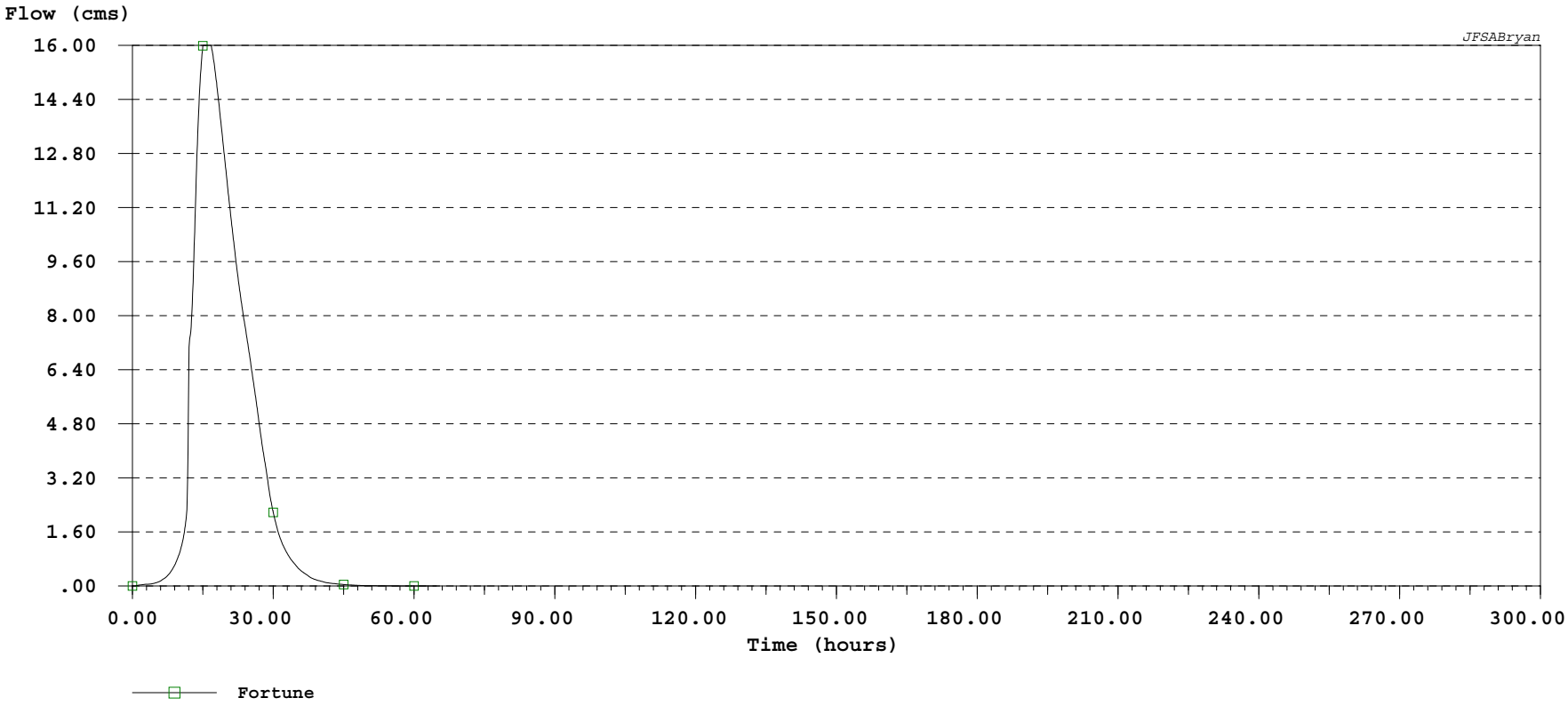
Legend	Filename & Comment	Time Step (min)	Drainage Area (ha)	Peak Flow (cms)	Time to Peak (hrs)	Runoff Volume (mm)	Runoff Volume (cu.m)	Duration of flow (hrs)	Average flow (cms)
——○——	H-JOCKVG.100: Flow from Van Gaal Drain at Jock River	5.00	1147.00	16.419	16.000	61.23	7.023E+05	66.083	2.952

Hydrograph Table:

Hydrograph Filename : Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-JOCKVG.100
Comment in file : Flow from Van Gaal Drain at Jock River

# TIME hrs	FLOW # cms	# TIME hrs	FLOW # cms	# TIME hrs	FLOW # cms	# TIME hrs	FLOW # cms	# TIME hrs	FLOW # cms	# TIME hrs	FLOW # cms	# TIME hrs	FLOW # cms	# TIME hrs	FLOW # cms	# TIME hrs	FLOW # cms	# TIME hrs	FLOW # cms	# TIME hrs	FLOW # cms	# TIME hrs	FLOW # cms	# TIME hrs	FLOW # cms
0.00	0.000	5.83	0.135	11.67	2.587	17.50	15.593	23.33	8.530	29.17	3.068	35.00	0.656	40.83	0.148	46.67	0.037	52.50	0.007	58.33	0.001	64.17	0.000
0.08	0.000	5.92	0.139	11.75	3.360	17.58	15.509	23.42	8.445	29.25	2.990	35.08	0.642	40.92	0.145	46.75	0.036	52.58	0.007	58.42	0.001	64.25	0.000
0.17	0.000	6.00	0.143	11.83	4.498	17.67	15.427	23.50	8.360	29.33	2.916	35.17	0.629	41.00	0.142	46.83	0.036	52.67	0.006	58.50	0.001	64.33	0.000
0.25	0.000	6.08	0.148	11.92	6.002	17.75	15.337	23.58	8.281	29.42	2.843	35.25	0.616	41.08	0.139	46.92	0.035	52.75	0.006	58.58	0.001	64.42	0.000
0.33	0.000	6.17	0.154	12.00	7.778	17.83	15.245	23.67	8.203	29.50	2.772	35.33	0.603	41.17	0.136	47.00	0.034	52.83	0.006	58.67	0.001	64.50	0.000
0.42	0.000	6.25	0.160	12.08	8.741	17.92	15.159	23.75	8.127	29.58	2.704	35.42	0.590	41.25	0.133	47.08	0.033	52.92	0.006	58.75	0.001	64.58	0.000
0.50	0.000	6.33	0.167	12.17	8.614	18.00	15.062	23.83	8.054	29.67	2.639	35.50	0.578	41.33	0.130	47.17	0.033	53.00	0.006	58.83	0.001	64.67	0.000
0.58	0.000	6.42	0.173	12.25	8.251	18.08	14.962	23.92	7.981	29.75	2.576	35.58	0.566	41.42	0.127	47.25	0.032	53.08	0.006	58.92	0.001	64.75	0.000
0.67	0.000	6.50	0.180	12.33	8.064	18.17	14.869	24.00	7.910	29.83	2.514	35.67	0.555	41.50	0.125	47.33	0.031	53.17	0.006	59.00	0.001	64.83	0.000
0.75	0.004	6.58	0.186	12.42	7.988	18.25	14.766	24.08	7.833	29.92	2.455	35.75	0.543	41.58	0.122	47.42	0.030	53.25	0.005	59.08	0.001	64.92	0.000
0.83	0.012	6.67	0.193	12.50	7.991	18.33	14.661	24.17	7.751	30.00	2.398	35.83	0.532	41.67	0.120	47.50	0.030	53.33	0.005	59.17	0.001	65.00	0.000
0.92	0.019	6.75	0.200	12.58	8.028	18.42	14.565	24.25	7.671	30.08	2.343	35.92	0.522	41.75	0.117	47.58	0.029	53.42	0.005	59.25	0.001	65.08	0.000
1.00	0.024	6.83	0.207	12.67	8.079	18.50	14.465	24.33	7.594	30.17	2.289	36.00	0.511	41.83	0.115	47.67	0.028	53.50	0.005	59.33	0.001	65.17	0.000
1.08	0.027	6.92	0.214	12.75	8.188	18.58	14.357	24.42	7.517	30.25	2.238	36.08	0.499	41.92	0.113	47.75	0.028	53.58	0.005	59.42	0.001	65.25	0.000
1.17	0.029	7.00	0.221	12.83	8.355	18.67	14.248	24.50	7.444	30.33	2.188	36.17	0.486	42.00	0.111	47.83	0.027	53.67	0.005	59.50	0.001	65.33	0.000
1.25	0.031	7.08	0.230	12.92	8.566	18.75	14.142	24.58	7.370	30.42	2.139	36.25	0.475	42.08	0.109	47.92	0.027	53.75	0.005	59.58	0.001	65.42	0.000
1.33	0.033	7.17	0.242	13.00	8.818	18.83	14.032	24.67	7.295	30.50	2.091	36.33	0.464	42.17	0.107	48.00	0.026	53.83	0.004	59.67	0.001	65.50	0.000
1.42	0.035	7.25	0.252	13.08	9.095	18.92	13.922	24.75	7.221	30.58	2.044	36.42	0.454	42.25	0.105	48.08	0.025	53.92	0.004	59.75	0.001	65.58	0.000
1.50	0.036	7.33	0.263	13.17	9.391	19.00	13.813	24.83	7.147	30.67	1.996	36.50	0.444	42.33	0.103	48.17	0.025	54.00	0.004	59.83	0.001	65.67	0.000
1.58	0.038	7.42	0.273	13.25	9.720	19.08	13.704	24.92	7.074	30.75	1.946	36.58	0.433	42.42	0.101	48.25	0.024	54.08	0.004	59.92	0.001	65.75	0.000
1.67	0.039	7.50	0.284	13.33	10.074	19.17	13.595	25.00	6.999	30.83	1.897	36.67	0.422	42.50	0.099	48.33	0.024	54.17	0.004	60.00	0.001	65.83	0.000
1.75	0.041	7.58	0.295	13.42	10.444	19.25	13.486	25.08	6.924	30.92	1.849	36.75	0.412	42.58	0.097	48.42	0.023	54.25	0.004	60.08	0.001	65.92	0.000
1.83	0.042	7.67	0.306	13.50	10.818	19.33	13.376	25.17	6.848	31.00	1.803	36.83	0.402	42.67	0.096	48.50	0.023	54.33	0.004	60.17	0.001	66.00	0.000
1.92	0.044	7.75	0.318	13.58	11.188	19.42	13.265	25.25	6.770	31.08	1.758	36.92	0.393	42.75	0.094	48.58	0.022	54.42	0.004	60.25	0.000	66.08	0.000
2.00	0.045	7.83	0.331	13.67	11.551	19.50	13.154	25.33	6.692	31.17	1.713	37.00	0.384	42.83	0.092	48.67	0.022	54.50	0.004	60.33	0.000	66.17	0.000
2.08	0.048	7.92	0.344	13.75	11.912	19.58	13.044	25.42	6.614	31.25	1.671	37.08	0.376	42.92	0.091	48.75	0.021	54.58	0.003	60.42	0.000	66.25	0.000
2.17	0.051	8.00	0.358	13.83	12.269	19.67	12.934	25.50	6.536	31.33	1.631	37.17	0.368	43.00	0.089	48.83	0.021	54.67	0.003	60.50	0.000	66.33	0.000
2.25	0.053	8.08	0.374	13.92	12.620	19.75	12.824	25.58	6.458	31.42	1.593	37.25	0.361	43.08	0.087	48.92	0.020	54.75	0.003	60.58	0.000	66.42	0.000
2.33	0.055	8.17	0.394	14.00	12.961	19.83	12.715	25.67	6.377	31.50	1.557	37.33	0.353	43.17	0.086	49.00	0.020	54.83	0.003	60.67	0.000	66.50	0.000
2.42	0.057	8.25	0.413	14.08	13.285	19.92	12.607	25.75	6.294	31.58	1.522	37.42	0.345	43.25	0.084	49.08	0.019	54.92	0.003	60.75	0.000	66.58	0.000
2.50	0.059	8.33	0.432	14.17	13.588	20.00	12.499	25.83	6.213	31.67	1.489	37.50	0.337	43.33	0.083	49.17	0.019	55.00	0.003	60.83	0.000	66.67	0.000
2.58	0.060	8.42	0.449	14.25	13.871	20.08	12.388	25.92	6.133	31.75	1.457	37.58	0.329	43.42	0.081	49.25	0.018	55.08	0.003	60.92	0.000	66.75	0.000
2.67	0.062	8.50	0.466	14.33	14.137	20.17	12.274	26.00	6.052	31.83	1.425	37.67	0.321	43.50	0.080	49.33	0.018	55.17	0.003	61.00	0.000	66.83	0.000
2.75	0.063	8.58	0.483	14.42	14.389	20.25	12.161	26.08	5.972	31.92	1.395	37.75	0.313	43.58	0.079	49.42	0.017	55.25	0.003	61.08	0.000	66.92	0.000
2.83	0.064	8.67	0.503	14.50	14.623	20.33	12.050	26.17	5.891	32.00	1.366	37.83	0.306	43.67	0.077	49.50	0.017	55.33	0.003	61.17	0.000	67.00	0.000
2.92	0.066	8.75	0.522	14.58	14.840	20.42	11.941	26.25	5.811	32.08	1.338	37.92	0.299	43.75	0.076	49.58	0.017	55.42	0.003	61.25	0.000	67.08	0.000
3.00	0.067	8.83	0.539	14.67	15.041	20.50	11.832	26.33	5.730	32.17	1.310	38.00	0.292	43.83	0.074	49.67	0.016	55.50	0.003	61.33	0.000	67.17	0.000
3.08	0.068	8.92	0.555	14.75	15.227	20.58	11.724	26.42	5.650	32.25	1.284	38.08	0.286	43.92	0.073	49.75	0.016	55.58	0.002	61.42	0.000	67.25	0.000
3.17	0.069	9.00	0.573	14.83	15.398	20.67	11.617	26.50	5.569	32.33	1.258	38.17	0.279	44.00	0.072	49.83	0.015	55.67	0.002	61.50	0.000	67.33	0.000
3.25	0.070	9.08	0.592	14.92	15.554	20.75	11.511	26.58	5.488	32.42	1.234	38.25	0.273	44.08	0.070	49.92	0.015	55.75	0.002	61.58	0.000	67.42	0.000
3.33	0.072	9.17	0.615	15.00	15.701	20.83	11.405	26.67	5.406	32.50	1.209	38.33	0.267	44.17	0.069	50.00	0.015	55.83	0.002	61.67	0.000	67.50	0.000
3.42	0.073	9.25	0.638	15.08	15.833	20.92	11.296	26.75	5.323	32.58	1.186	38.42	0.262	44.25	0.068	50.08	0.014	55.92	0.002	61.75	0.000	67.58	0.000
3.50	0.074	9.33	0.662	15.17	15.943	21.00	11.187	26.83	5.240	32.67	1.162	38.50	0.256	44.33	0.066	50.17	0.014	56.00	0.002	61.83	0.000	67.67	0.000
3.58	0.075	9.42	0.687	15.25	16.040	21.08	11.081	26.92	5.157	32.75	1.139	38.58	0.251	44.42	0.065	50.25	0.014	56.08	0.002	61.92	0.000	67.75	0.000
3.67	0.076	9.50	0.712	15.33	16.126	21.17	10.973	27.00	5.074	32.83	1.117	38.67	0.246	44.50	0.064	50.33	0.013	56.17	0.002	62.00	0.000	67.83	0.000
3.75	0.077	9.58	0.741	15.42	16.197	21.25	10.865	27.08	4.992	32.92	1.093	38.75	0.241	44.58	0.063	50.42	0.013	56.25	0.002	62.08	0.000	67.92	0.000
3.83	0.078	9.67	0.772	15.50	16.255	21.33	10.763	27.17	4.911	33.00	1.068	38.83	0.236	44.67	0.061	50.50	0.013	56.33	0.002	62.17	0.000	68.00	0.000
3.92	0.079	9.75	0.803	15.58	16.307	21.42	10.660	27.25	4.829	33.08	1.045	38.92	0.232	44.75	0.060	50.58	0.012	56.42	0.002	62.25	0.000	68.08	0.000
4.00	0.080	9.83	0.834	15.67	16.346	21.50	10.558	27.33	4.747	33.17	1.022	39.00	0.227	44.83	0.059	50.67	0.012	56.50	0.002	62.33	0.000	68.17	0.000
4.08	0.082	9.92	0.865	15.75	16.367	21.58	10.457	27.42	4.666	33.25	1.000	39.08	0.223	44.92	0.058	50.75	0.012	56.58	0.002	62.42	0.000	68.25	0.000
4.17	0.086	10.00	0.897	15.83	16.386	21.67	10.357	27.50	4.582	33.33	0.978	39.17	0.218	45.00	0.057	50.83	0.011	56.67	0.002	62.50	0.000	68.33	0.000
4.25	0.088	10.08	0.934	15.92	16.405	21.75	10.258	27.58	4.496	33.42	0.956	39.25	0.214	45.08	0.056	50.92	0.011	56.75	0.002	62.58	0.000	68.42	0.000
4.33	0.091	10.17	0.976	16.00	16.419	21.83	10.159	27.67	4.412	33.50	0.934	39.33	0.210	45.17	0.054	51.00	0.011	56.83	0.002	62.67	0.000	68.50	0.000
4.42	0.093	10.25	1.015	16.08	16.412	21.92	10.061	27.75	4.330	33.58	0.914	39.42	0.206	45.25	0.053	51.08	0.011	56.92	0.002	62.75	0.000	68.58	0.000
4.50	0.095	10.33	1.053	16.17	16.383	22.00	9.961	27.83	4.250	33.67	0.894	39.50	0.202	45.33	0.052	51.17	0.010	57.00	0.002	62.83	0.000	68.67	0.000
4.58	0.097	10.42	1.092	16.25	16.357	22.08	9.866	27.92	4.172	33.75	0.876	39.58	0.198	45.42	0.051	51.25	0.010	57.08	0.001	62.92	0.000	68.75	0.000
4.67	0.098	10.50	1.131	16.33	16.335	22.17	9.769	28.00	4.096	33.83	0.858	39.67	0.194	45.50	0.050	51.33	0.010	57.17	0.001	63.00	0.000	68.83	0.000
4.75	0.100	10.58	1.177	16.42	16.310	22.25	9.673	28.08	4.021	33.92	0.841	39.75	0.191	45.58	0.049	51.42	0.009	57.25	0.001	63.08	0.000	68.92	0.000
4.83	0.102	10.67	1.232	16.50	16.281	22.33	9.581	28.17	3.948	34.00	0.825	39.83	0.187	45.67	0.048	51.50	0.009	57.33	0.001	63.17	0.000	69.00	0.000
4.92	0.104	10.75	1.284	16.58	16.247	22.42	9.488	28.25	3.877	34.08	0.809	39.92	0.184	45.75	0.047	51.58	0.009	57.42	0.001	63.25	0.000	69.08	0.000
5.00	0.107	10.83	1.336	16.67	16.207	22.50	9.395	28.33	3.807	34.17	0.794	40.00	0.180	45.83	0.046	51.67	0.009	57.50	0.001	63.33	0.000	69.17	0.000
5.08	0.109	10.92	1.389	16.75	16.161	22.58	9.305	28.42	3.737	34.25	0.779	40.08	0.177	45.92	0.045	51.75	0.009	57.58	0.001	63.42	0.000	69.25	0.000
5.17	0.111	11.00	1.443	16.83	16.111	22.67	9.215	28.50	3.667	34.33	0.764	40.17	0.173	46.00	0.044	51.83	0.008	57.67	0.001	63.50	0.000	69.33	0.000
5.25	0.114	11.08	1.516	16.92	16.055	22.75	9.128	28.58	3.597	34.42	0.750	40.25	0.170	46.08	0.043	51.92	0.008	57.75	0.001	63.58	0.000	69.42	0.000
5.33	0.116	11.17	1.611	17.00	16.001	22.83	9.041	28.67	3.526	34.50	0.736	40.33	0.167	46.17	0.042	52.00	0.008	57.83	0.001	63.67	0.000	69.50	0.000
5.42	0.119	11.25	1.701	17.08	15.950	22.92	8.955	28.75	3.455	34.58	0.723	40.42	0.164	46.25	0.041	52.08	0.008	57.92	0.001	63.75	0.000	69.58	0.000
5.50	0.122	11.33	1.787	17.17	15.889	23.00	8.871	28.83	3.382	34.67	0.709	40.50	0.161	46.33	0.041	52.17	0.007	58.00	0.001	63.83	0.000	69.67	0.000
5.58	0.125	11.42	1.869	17.25	15.814	23.08	8.787	28.92	3.307	34.75	0.696	40.58	0.157	46.42	0.040	52.25	0.007	58.08	0.001	63.92	0.000	69.75	0.000
5.67	0.128	11.50	1.951	17.33	15.741	23.17	8.702	29.00	3.231	34.83	0.682	40.67	0.154	46.50	0.039	52.33	0.007	58.17	0.001	64.00	0.000	69.83	0.000
5.75	0.131	11.58	2.182	17.42	15.672	23.25	8.615	29.08	3.150	34.92	0.669	40.75	0.151	46.58	0.038	52.42	0.007	58.25	0.001	64.08	0.000	69.92	0.000

FORTUNE (VG SUMMER)



Hydrograph Statistics:

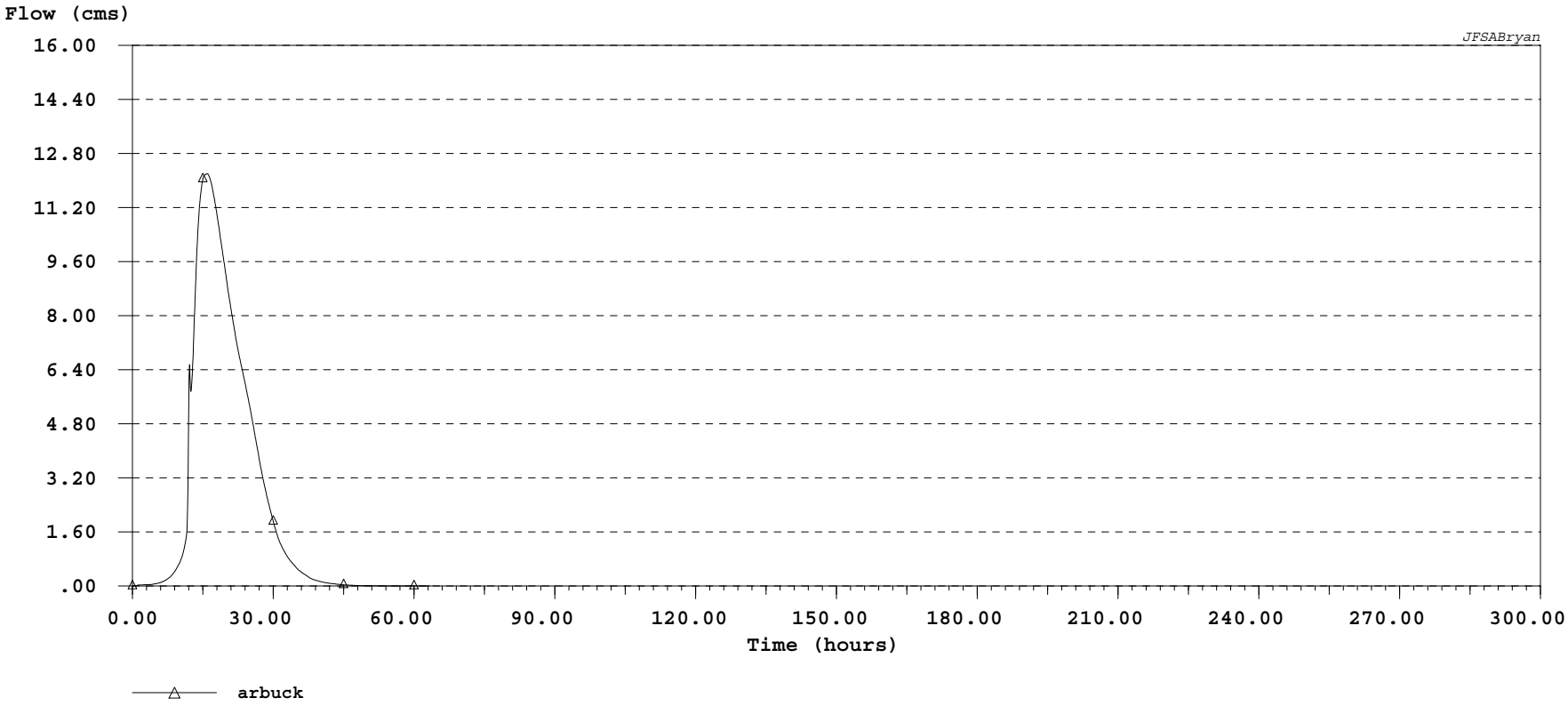
Legend	Filename & Comment	Time Step (min)	Drainage Area (ha)	Peak Flow (cms)	Time to Peak (hrs)	Runoff Volume (mm)	Runoff Volume (cu.m)	Duration of flow (hrs)	Average flow (cms)
—□—	H-FORTUN.100: Fortune	5.00	1126.70	16.377	15.917	61.17	6.892E+05	64.750	2.957

Hydrograph Table:

Hydrograph Filename : Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-FORTUN.100
Comment in file : Fortune

# TIME hrs	FLOW # cms	# TIME hrs	FLOW # cms	# TIME hrs	FLOW # cms	# TIME hrs	FLOW # cms	# TIME hrs	FLOW # cms	# TIME hrs	FLOW # cms	# TIME hrs	FLOW # cms	# TIME hrs	FLOW # cms	# TIME hrs	FLOW # cms	# TIME hrs	FLOW # cms	# TIME hrs	FLOW # cms	# TIME hrs	FLOW # cms	# TIME hrs	FLOW # cms
0.00	0.000	5.83	0.139	11.67	2.577	17.50	15.355	23.33	8.272	29.17	2.784	35.00	0.579	40.83	0.114	46.67	0.027	52.50	0.005	58.33	0.001	64.17	0.000
0.08	0.000	5.92	0.144	11.75	3.178	17.58	15.275	23.42	8.194	29.25	2.713	35.08	0.565	40.92	0.111	46.75	0.027	52.58	0.004	58.42	0.001	64.25	0.000
0.17	0.000	6.00	0.151	11.83	4.031	17.67	15.189	23.50	8.116	29.33	2.647	35.17	0.551	41.00	0.108	46.83	0.026	52.67	0.004	58.50	0.001	64.33	0.000
0.25	0.000	6.08	0.158	11.92	5.068	17.75	15.071	23.58	8.041	29.42	2.583	35.25	0.537	41.08	0.105	46.92	0.025	52.75	0.004	58.58	0.001	64.42	0.000
0.33	0.000	6.17	0.166	12.00	6.275	17.83	14.991	23.67	7.970	29.50	2.522	35.33	0.525	41.17	0.103	47.00	0.025	52.83	0.004	58.67	0.001	64.50	0.000
0.42	0.000	6.25	0.175	12.08	7.069	17.92	14.904	23.75	7.900	29.58	2.462	35.42	0.513	41.25	0.101	47.08	0.024	52.92	0.004	58.75	0.001	64.58	0.000
0.50	0.000	6.33	0.184	12.17	7.294	18.00	14.775	23.83	7.829	29.67	2.401	35.50	0.502	41.33	0.099	47.17	0.024	53.00	0.004	58.83	0.001	64.67	0.000
0.58	0.000	6.42	0.193	12.25	7.354	18.08	14.687	23.92	7.760	29.75	2.341	35.58	0.491	41.42	0.097	47.25	0.023	53.08	0.004	58.92	0.001	64.75	0.000
0.67	0.000	6.50	0.201	12.33	7.424	18.17	14.596	24.00	7.689	29.83	2.283	35.67	0.481	41.50	0.095	47.33	0.023	53.17	0.006	59.00	0.000	64.83	0.000
0.75	0.002	6.58	0.208	12.42	7.516	18.25	14.461	24.08	7.616	29.92	2.227	35.75	0.471	41.58	0.093	47.42	0.022	53.25	0.004	59.08	0.000	64.92	0.000
0.83	0.007	6.67	0.214	12.50	7.675	18.33	14.372	24.17	7.539	30.00	2.174	35.83	0.461	41.67	0.092	47.50	0.022	53.33	0.003	59.17	0.000	65.00	0.000
0.92	0.012	6.75	0.221	12.58	7.882	18.42	14.281	24.25	7.463	30.08	2.123	35.92	0.452	41.75	0.090	47.58	0.021	53.42	0.003	59.25	0.000	65.08	0.000
1.00	0.015	6.83	0.228	12.67	8.103	18.50	14.170	24.33	7.387	30.17	2.074	36.00	0.442	41.83	0.088	47.67	0.020	53.50	0.003	59.33	0.000	65.17	0.000
1.08	0.018	6.92	0.235	12.75	8.364	18.58	14.057	24.42	7.312	30.25	2.027	36.08	0.433	41.92	0.087	47.75	0.020	53.58	0.003	59.42	0.000	65.25	0.000
1.17	0.020	7.00	0.243	12.83	8.662	18.67	13.954	24.50	7.237	30.33	1.979	36.17	0.424	42.00	0.085	47.83	0.020	53.67	0.003	59.50	0.000	65.33	0.000
1.25	0.022	7.08	0.252	12.92	8.985	18.75	13.848	24.58	7.162	30.42	1.933	36.25	0.415	42.08	0.084	47.92	0.019	53.75	0.003	59.58	0.000	65.42	0.000
1.33	0.025	7.17	0.263	13.00	9.335	18.83	13.736	24.67	7.087	30.50	1.887	36.33	0.407	42.17	0.082	48.00	0.019	53.83	0.003	59.67	0.000	65.50	0.000
1.42	0.026	7.25	0.274	13.08	9.704	18.92	13.627	24.75	7.011	30.58	1.840	36.42	0.398	42.25	0.081	48.08	0.018	53.92	0.003	59.75	0.000	65.58	0.000
1.50	0.028	7.33	0.286	13.17	10.084	19.00	13.518	24.83	6.935	30.67	1.793	36.50	0.390	42.33	0.080	48.17	0.018	54.00	0.003	59.83	0.000	65.67	0.000
1.58	0.030	7.42	0.298	13.25	10.474	19.08	13.407	24.92	6.859	30.75	1.747	36.58	0.382	42.42	0.078	48.25	0.017	54.08	0.003	59.92	0.000	65.75	0.000
1.67	0.031	7.50	0.309	13.33	10.864	19.17	13.296	25.00	6.782	30.83	1.702	36.67	0.374	42.50	0.077	48.33	0.017	54.17	0.003	60.00	0.000	65.83	0.000
1.75	0.032	7.58	0.322	13.42	11.257	19.25	13.184	25.08	6.702	30.92	1.659	36.75	0.366	42.58	0.076	48.42	0.017	54.25	0.003	60.08	0.000	65.92	0.000
1.83	0.034	7.67	0.334	13.50	11.648	19.33	13.072	25.17	6.620	31.00	1.618	36.83	0.359	42.67	0.074	48.50	0.016	54.33	0.002	60.17	0.000	66.00	0.000
1.92	0.035	7.75	0.347	13.58	12.026	19.42	12.957	25.25	6.539	31.08	1.579	36.92	0.351	42.75	0.073	48.58	0.016	54.42	0.002	60.25	0.000	66.08	0.000
2.00	0.036	7.83	0.360	13.67	12.389	19.50	12.844	25.33	6.457	31.17	1.542	37.00	0.344	42.83	0.072	48.67	0.015	54.50	0.002	60.33	0.000	66.17	0.000
2.08	0.037	7.92	0.374	13.75	12.741	19.58	12.734	25.42	6.377	31.25	1.505	37.08	0.337	42.92	0.070	48.75	0.015	54.58	0.002	60.42	0.000	66.25	0.000
2.17	0.039	8.00	0.388	13.83	13.074	19.67	12.624	25.50	6.298	31.33	1.471	37.17	0.330	43.00	0.069	48.83	0.015	54.67	0.002	60.50	0.000	66.33	0.000
2.25	0.041	8.08	0.404	13.92	13.393	19.75	12.512	25.58	6.219	31.42	1.437	37.25	0.321	43.08	0.069	48.92	0.014	54.75	0.002	60.58	0.000	66.42	0.000
2.33	0.043	8.17	0.422	14.00	13.696	19.83	12.403	25.67	6.138	31.50	1.405	37.33	0.312	43.17	0.068	49.00	0.014	54.83	0.002	60.67	0.000	66.50	0.000
2.42	0.044	8.25	0.441	14.08	13.980	19.92	12.296	25.75	6.055	31.58	1.375	37.42	0.303	43.25	0.066	49.08	0.014	54.92	0.002	60.75	0.000	66.58	0.000
2.50	0.045	8.33	0.460	14.17	14.242	20.00	12.186	25.83	5.983	31.67	1.344	37.50	0.294	43.33	0.065	49.17	0.013	55.00	0.002	60.83	0.000	66.67	0.000
2.58	0.046	8.42	0.477	14.25	14.489	20.08	12.074	25.92	5.906	31.75	1.314	37.58	0.285	43.42	0.063	49.25	0.013	55.08	0.002	60.92	0.000	66.75	0.000
2.67	0.047	8.50	0.495	14.33	14.719	20.17	11.962	26.00	5.827	31.83	1.285	37.67	0.276	43.50	0.062	49.33	0.013	55.17	0.002	61.00	0.000	66.83	0.000
2.75	0.048	8.58	0.512	14.42	14.931	20.25	11.850	26.08	5.745	31.92	1.258	37.75	0.267	43.58	0.061	49.42	0.012	55.25	0.002	61.08	0.000	66.92	0.000
2.83	0.049	8.67	0.531	14.50	15.125	20.33	11.740	26.17	5.664	32.00	1.231	37.83	0.260	43.67	0.060	49.50	0.012	55.33	0.002	61.17	0.000	67.00	0.000
2.92	0.050	8.75	0.551	14.58	15.302	20.42	11.631	26.25	5.581	32.08	1.205	37.92	0.253	43.75	0.059	49.58	0.012	55.42	0.002	61.25	0.000	67.08	0.000
3.00	0.050	8.83	0.571	14.67	15.462	20.50	11.522	26.33	5.497	32.17	1.181	38.00	0.246	43.83	0.058	49.67	0.011	55.50	0.002	61.33	0.000	67.17	0.000
3.08	0.051	8.92	0.592	14.75	15.607	20.58	11.415	26.42	5.413	32.25	1.157	38.08	0.240	43.92	0.056	49.75	0.011	55.58	0.002	61.42	0.000	67.25	0.000
3.17	0.052	9.00	0.613	14.83	15.739	20.67	11.308	26.50	5.329	32.33	1.134	38.17	0.235	44.00	0.055	49.83	0.011	55.67	0.002	61.50	0.000	67.33	0.000
3.25	0.053	9.08	0.637	14.92	15.858	20.75	11.202	26.58	5.245	32.42	1.111	38.25	0.229	44.08	0.054	49.92	0.010	55.75	0.002	61.58	0.000	67.42	0.000
3.33	0.053	9.17	0.663	15.00	15.985	20.83	11.097	26.67	5.157	32.50	1.088	38.33	0.224	44.17	0.053	50.00	0.010	55.83	0.001	61.67	0.000	67.50	0.000
3.42	0.054	9.25	0.690	15.08	16.066	20.92	10.992	26.75	5.067	32.58	1.066	38.42	0.219	44.25	0.052	50.08	0.010	55.92	0.001	61.75	0.000	67.58	0.000
3.50	0.055	9.33	0.718	15.17	16.133	21.00	10.888	26.83	4.982	32.67	1.044	38.50	0.214	44.33	0.051	50.17	0.010	56.00	0.001	61.83	0.000	67.67	0.000
3.58	0.056	9.42	0.747	15.25	16.204	21.08	10.785	26.92	4.895	32.75	1.022	38.58	0.210	44.42	0.050	50.25	0.009	56.08	0.001	61.92	0.000	67.75	0.000
3.67	0.057	9.50	0.777	15.33	16.256	21.17	10.682	27.00	4.808	32.83	1.000	38.67	0.205	44.50	0.049	50.33	0.009	56.17	0.001	62.00	0.000	67.83	0.000
3.75	0.058	9.58	0.807	15.42	16.295	21.25	10.579	27.08	4.732	32.92	0.979	38.75	0.201	44.58	0.048	50.42	0.009	56.25	0.001	62.08	0.000	67.92	0.000
3.83	0.059	9.67	0.837	15.50	16.321	21.33	10.477	27.17	4.642	33.00	0.959	38.83	0.196	44.67	0.047	50.50	0.009	56.33	0.001	62.17	0.000	68.00	0.000
3.92	0.060	9.75	0.868	15.58	16.362	21.42	10.376	27.25	4.558	33.08	0.939	38.92	0.192	44.75	0.046	50.58	0.008	56.42	0.001	62.25	0.000	68.08	0.000
4.00	0.061	9.83	0.898	15.67	16.359	21.50	10.275	27.33	4.473	33.17	0.919	39.00	0.188	44.83	0.045	50.67	0.008	56.50	0.001	62.33	0.000	68.17	0.000
4.08	0.063	9.92	0.928	15.75	16.352	21.58	10.175	27.42	4.391	33.25	0.899	39.08	0.184	44.92	0.044	50.75	0.008	56.58	0.001	62.42	0.000	68.25	0.000
4.17	0.066	10.00	0.959	15.83	16.370	21.67	10.075	27.50	4.309	33.33	0.880	39.17	0.181	45.00	0.043	50.83	0.008	56.67	0.001	62.50	0.000	68.33	0.000
4.25	0.068	10.08	0.993	15.92	16.377	21.75	9.976	27.58	4.223	33.42	0.861	39.25	0.177	45.08	0.042	50.92	0.008	56.75	0.001	62.58	0.000	68.42	0.000
4.33	0.071	10.17	1.033	16.00	16.376	21.83	9.878	27.67	4.143	33.50	0.843	39.33	0.173	45.17	0.041	51.00	0.007	56.83	0.001	62.67	0.000	68.50	0.000
4.42	0.074	10.25	1.074	16.08	16.335	21.92	9.778	27.75	4.069	33.58	0.826	39.42	0.170	45.25	0.040	51.08	0.007	56.92	0.001	62.75	0.000	68.58	0.000
4.50	0.076	10.33	1.116	16.17	16.288	22.00	9.679	27.83	3.997	33.67	0.809	39.50	0.166	45.33	0.039	51.17	0.007	57.00	0.001	62.83	0.000	68.67	0.000
4.58	0.079	10.42	1.159	16.25	16.269	22.08	9.581	27.92	3.923	33.75	0.793	39.58	0.163	45.42	0.038	51.25	0.007	57.08	0.001	62.92	0.000	68.75	0.000
4.67	0.082	10.50	1.202	16.33	16.243	22.17	9.486	28.00	3.849	33.83	0.777	39.67	0.160	45.50	0.037	51.33	0.007	57.17	0.001	63.00	0.000	68.83	0.000
4.75	0.085	10.58	1.251	16.42	16.210	22.25	9.393	28.08	3.778	33.92	0.762	39.75	0.157	45.58	0.037	51.42	0.006	57.25	0.001	63.08	0.000	68.92	0.000
4.83	0.088	10.67	1.307	16.50	16.172	22.33	9.301	28.17	3.706	34.00	0.747	39.83	0.153	45.67	0.036	51.50	0.006	57.33	0.001	63.17	0.000	69.00	0.000
4.92	0.091	10.75	1.363	16.58	16.127	22.42	9.209	28.25	3.638	34.08	0.732	39.92	0.150	45.75	0.035	51.58	0.006	57.42	0.001	63.25	0.000	69.08	0.000
5.00	0.094	10.83	1.421	16.67	16.073	22.50	9.116	28.33	3.568	34.17	0.718	40.00	0.147	45.83	0.034	51.67	0.006	57.50	0.001	63.33	0.000	69.17	0.000
5.08	0.098	10.92	1.480	16.75	16.014	22.58	9.026	28.42	3.494	34.25	0.704	40.08	0.144	45.92	0.033	51.75	0.006	57.58	0.001	63.42	0.000	69.25	0.000
5.17	0.101	11.00	1.540	16.83	15.952	22.67	8.940	28.50	3.422	34.33	0.690	40.17	0.142	46.00	0.033	51.83	0.006	57.67	0.001	63.50	0.000	69.33	0.000
5.25	0.105	11.08	1.613	16.92	15.884	22.75	8.855	28.58	3.350	34.42	0.677	40.25	0.139	46.08	0.032	51.92	0.006	57.75	0.001	63.58	0.000	69.42	0.000
5.33	0.109	11.17	1.702	17.00	15.839	22.83	8.770	28.67	3.273	34.50	0.663	40.33	0.136	46.17	0.031	52.00	0.005	57.83	0.001	63.67	0.000	69.50	0.000
5.42	0.113	11.25	1.791	17.08	15.786	22.92	8.686	28.75	3.194	34.58	0.650	40.42	0.132	46.25	0.031	52.08	0.005	57.92	0.001	63.75	0.000	69.58	0.000
5.50	0.118	11.33	1.881	17.17	15.694	23.00	8.603	28.83	3.115	34.67	0.636	40.50	0.128	46.33	0.030	52.17	0.005	58.00	0.001	63.83	0.000	69.67	0.000
5.58	0.123	11.42	1.970	17.25	15.599	23.08	8.519	28.92	3.030	34.75	0.622	40.58	0.125	46.42	0.029	52.25	0.005	58.08	0.001	63.92	0.000	69.75	0.000
5.67	0.128	11.50	2.060	17.33	15.534	23.17	8.437	29.00	2.940	34.83	0.608	40.67	0.122	46.50	0.029	52.33	0.005	58.17	0.001	64.00	0.000	69.83	0.000
5.75	0.133	11.58	2.252	17.42	15.464	23.25	8.354	29.08	2.860	34.92	0.594	40.75	0.118	46.58	0.028	52.42	0.005	58.25	0.001	64.08	0.000	69.92	0.000

ARBUCK (VG SUMMER)



Hydrograph Statistics:

Legend	Filename & Comment	Time Step (min)	Drainage Area (ha)	Peak Flow (cms)	Time to Peak (hrs)	Runoff Volume (mm)	Runoff Volume (cu.m)	Duration of flow (hrs)	Average flow (cms)
——△——	H-ARBUCK.100: arbuck	5.00	890.10	12.200	15.917	59.38	5.285E+05	63.250	2.321

Hydrograph Table:

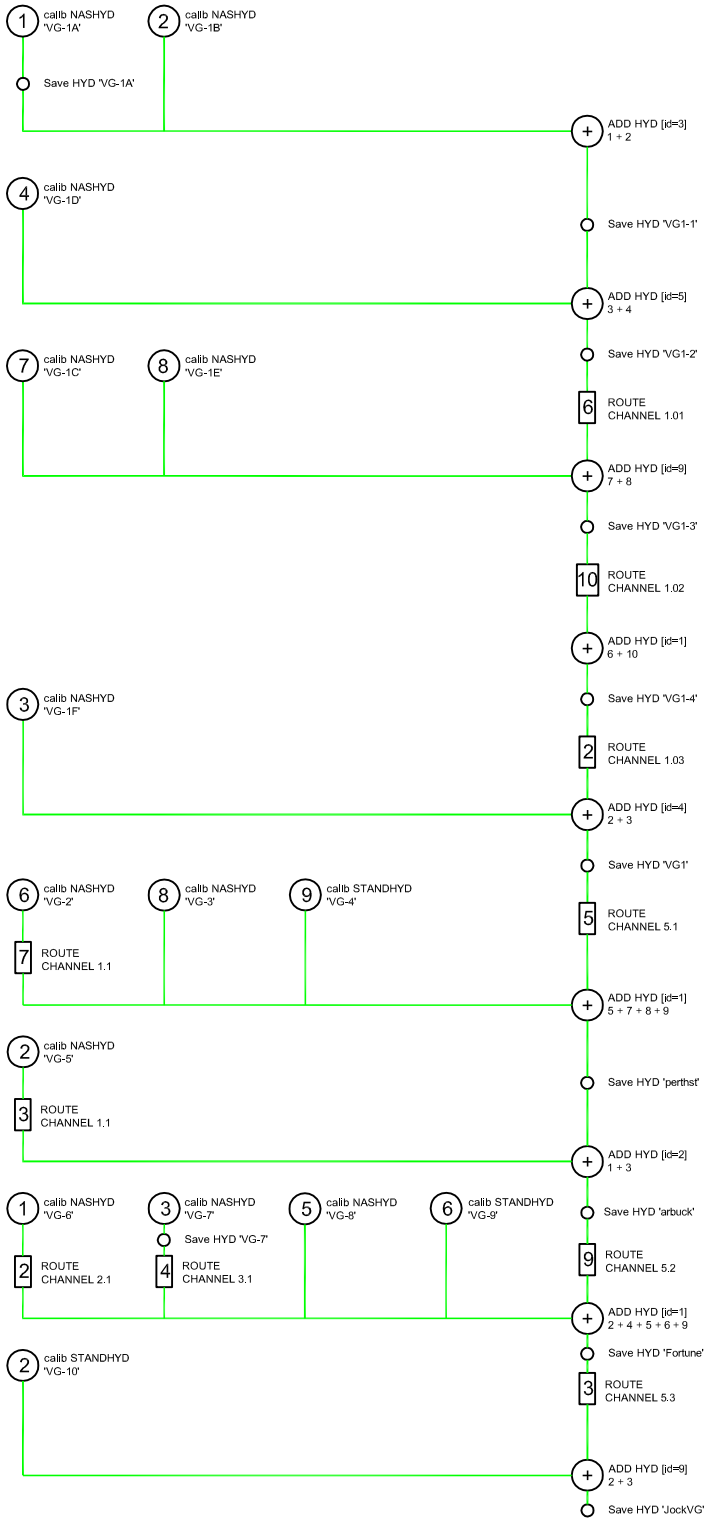
Hydrograph Filename : Z:\PROJ\709-08\DESIGN\SWMHYMO\JFSA\VGSUMM~1\H-ARBUCK.100
Comment in file : arbuck

# TIME hrs	FLOW # cms #	TIME hrs	FLOW # cms #	TIME hrs	FLOW # cms #	TIME hrs	FLOW # cms #	TIME hrs	FLOW # cms #	TIME hrs	FLOW # cms #	TIME hrs	FLOW # cms #	TIME hrs	FLOW # cms #	TIME hrs	FLOW # cms #	TIME hrs	FLOW # cms #	TIME hrs	FLOW # cms #
0.00	0.000	5.75	0.092	11.50	1.466	17.25	11.605	23.00	6.645	28.75	2.594	34.50	0.609	40.25	0.124	46.00	0.026	51.75	0.004	57.50	0.001
0.08	0.000	5.83	0.095	11.58	1.611	17.33	11.548	23.08	6.590	28.83	2.546	34.58	0.595	40.33	0.121	46.08	0.025	51.83	0.004	57.58	0.001
0.17	0.000	5.92	0.099	11.67	1.842	17.42	11.487	23.17	6.536	28.92	2.499	34.67	0.582	40.42	0.119	46.17	0.024	51.92	0.004	57.67	0.001
0.25	0.000	6.00	0.102	11.75	2.352	17.50	11.423	23.25	6.482	29.00	2.453	34.75	0.568	40.50	0.116	46.25	0.024	52.00	0.004	57.75	0.000
0.33	0.000	6.08	0.107	11.83	3.059	17.58	11.355	23.33	6.429	29.08	2.406	34.83	0.554	40.58	0.114	46.33	0.023	52.08	0.004	57.83	0.000
0.42	0.000	6.17	0.111	11.92	4.111	17.67	11.283	23.42	6.375	29.17	2.359	34.92	0.541	40.67	0.111	46.42	0.023	52.17	0.003	57.92	0.000
0.50	0.000	6.25	0.117	12.00	5.339	17.75	11.222	23.50	6.322	29.25	2.313	35.00	0.528	40.75	0.109	46.50	0.022	52.25	0.003	58.00	0.000
0.58	0.000	6.33	0.122	12.08	6.205	17.83	11.155	23.58	6.269	29.33	2.267	35.08	0.515	40.83	0.107	46.58	0.022	52.33	0.003	58.08	0.000
0.67	0.000	6.42	0.127	12.17	6.549	17.92	11.071	23.67	6.216	29.42	2.221	35.17	0.504	40.92	0.104	46.67	0.021	52.42	0.003	58.17	0.000
0.75	0.002	6.50	0.132	12.25	6.276	18.00	10.989	23.75	6.163	29.50	2.176	35.25	0.493	41.00	0.102	46.75	0.021	52.50	0.003	58.25	0.000
0.83	0.006	6.58	0.137	12.33	5.903	18.08	10.923	23.83	6.111	29.58	2.131	35.33	0.482	41.08	0.100	46.83	0.020	52.58	0.003	58.33	0.000
0.92	0.013	6.67	0.142	12.42	5.758	18.17	10.853	23.92	6.057	29.67	2.085	35.42	0.472	41.17	0.098	46.92	0.020	52.67	0.003	58.42	0.000
1.00	0.019	6.75	0.148	12.50	5.777	18.25	10.767	24.00	6.003	29.75	2.041	35.50	0.463	41.25	0.096	47.00	0.019	52.75	0.003	58.50	0.000
1.08	0.023	6.83	0.153	12.58	5.890	18.33	10.698	24.08	5.946	29.83	1.997	35.58	0.453	41.33	0.094	47.08	0.018	52.83	0.003	58.58	0.000
1.17	0.026	6.92	0.158	12.67	6.062	18.42	10.624	24.17	5.888	29.92	1.954	35.67	0.444	41.42	0.092	47.17	0.018	52.92	0.003	58.67	0.000
1.25	0.028	7.00	0.164	12.75	6.269	18.50	10.535	24.25	5.827	30.00	1.912	35.75	0.435	41.50	0.090	47.25	0.018	53.00	0.003	58.75	0.000
1.33	0.029	7.08	0.171	12.83	6.523	18.58	10.464	24.33	5.768	30.08	1.872	35.83	0.426	41.58	0.088	47.33	0.017	53.08	0.003	58.83	0.000
1.42	0.030	7.17	0.179	12.92	6.822	18.67	10.390	24.42	5.710	30.17	1.831	35.92	0.417	41.67	0.086	47.42	0.017	53.17	0.002	58.92	0.000
1.50	0.031	7.25	0.188	13.00	7.151	18.75	10.296	24.50	5.654	30.25	1.790	36.00	0.408	41.75	0.084	47.50	0.016	53.25	0.002	59.00	0.000
1.58	0.031	7.33	0.196	13.08	7.491	18.83	10.224	24.58	5.597	30.33	1.749	36.08	0.399	41.83	0.082	47.58	0.016	53.33	0.002	59.08	0.000
1.67	0.031	7.42	0.204	13.17	7.829	18.92	10.148	24.67	5.540	30.42	1.709	36.17	0.390	41.92	0.081	47.67	0.015	53.42	0.002	59.17	0.000
1.75	0.032	7.50	0.213	13.25	8.158	19.00	10.065	24.75	5.483	30.50	1.669	36.25	0.382	42.00	0.079	47.75	0.015	53.50	0.002	59.25	0.000
1.83	0.032	7.58	0.221	13.33	8.481	19.08	9.984	24.83	5.425	30.58	1.628	36.33	0.374	42.08	0.078	47.83	0.014	53.58	0.002	59.33	0.000
1.92	0.032	7.67	0.229	13.42	8.797	19.17	9.905	24.92	5.366	30.67	1.589	36.42	0.366	42.17	0.076	47.92	0.014	53.67	0.002	59.42	0.000
2.00	0.032	7.75	0.237	13.50	9.106	19.25	9.827	25.00	5.307	30.75	1.552	36.50	0.358	42.25	0.075	48.00	0.014	53.75	0.002	59.50	0.000
2.08	0.032	7.83	0.246	13.58	9.405	19.33	9.750	25.08	5.247	30.83	1.514	36.58	0.350	42.33	0.073	48.08	0.013	53.83	0.002	59.58	0.000
2.17	0.033	7.92	0.254	13.67	9.691	19.42	9.673	25.17	5.186	30.92	1.477	36.67	0.343	42.42	0.072	48.17	0.013	53.92	0.002	59.67	0.000
2.25	0.035	8.00	0.264	13.75	9.954	19.50	9.596	25.25	5.126	31.00	1.442	36.75	0.335	42.50	0.070	48.25	0.012	54.00	0.002	59.75	0.000
2.33	0.036	8.08	0.274	13.83	10.201	19.58	9.519	25.33	5.063	31.08	1.409	36.83	0.328	42.58	0.069	48.33	0.012	54.08	0.002	59.83	0.000
2.42	0.036	8.17	0.286	13.92	10.431	19.67	9.443	25.42	5.001	31.17	1.376	36.92	0.321	42.67	0.068	48.42	0.012	54.17	0.002	59.92	0.000
2.50	0.037	8.25	0.299	14.00	10.646	19.75	9.361	25.50	4.938	31.25	1.345	37.00	0.314	42.75	0.066	48.50	0.011	54.25	0.002	60.00	0.000
2.58	0.037	8.33	0.312	14.08	10.841	19.83	9.278	25.58	4.875	31.33	1.315	37.08	0.307	42.83	0.065	48.58	0.011	54.33	0.002	60.08	0.000
2.67	0.038	8.42	0.325	14.17	11.014	19.92	9.197	25.67	4.810	31.42	1.287	37.17	0.300	42.92	0.064	48.67	0.011	54.42	0.002	60.17	0.000
2.75	0.038	8.50	0.338	14.25	11.169	20.00	9.109	25.75	4.743	31.50	1.260	37.25	0.292	43.00	0.062	48.75	0.011	54.50	0.002	60.25	0.000
2.83	0.038	8.58	0.351	14.33	11.309	20.08	9.024	25.83	4.677	31.58	1.234	37.33	0.284	43.08	0.066	48.83	0.010	54.58	0.002	60.33	0.000
2.92	0.038	8.67	0.366	14.42	11.436	20.17	8.942	25.92	4.610	31.67	1.209	37.42	0.276	43.17	0.060	48.92	0.010	54.67	0.001	60.42	0.000
3.00	0.038	8.75	0.381	14.50	11.550	20.25	8.861	26.00	4.543	31.75	1.185	37.50	0.267	43.25	0.058	49.00	0.010	54.75	0.001	60.50	0.000
3.08	0.039	8.83	0.396	14.58	11.655	20.33	8.782	26.08	4.477	31.83	1.161	37.58	0.259	43.33	0.057	49.08	0.010	54.83	0.001	60.58	0.000
3.17	0.039	8.92	0.411	14.67	11.749	20.42	8.707	26.17	4.412	31.92	1.138	37.67	0.250	43.42	0.056	49.17	0.009	54.92	0.001	60.67	0.000
3.25	0.039	9.00	0.426	14.75	11.834	20.50	8.632	26.25	4.348	32.00	1.116	37.75	0.243	43.50	0.055	49.25	0.009	55.00	0.001	60.75	0.000
3.33	0.039	9.08	0.443	14.83	11.913	20.58	8.558	26.33	4.284	32.08	1.094	37.83	0.236	43.58	0.053	49.33	0.009	55.08	0.001	60.83	0.000
3.42	0.040	9.17	0.462	14.92	11.984	20.67	8.484	26.42	4.220	32.17	1.073	37.92	0.230	43.67	0.052	49.42	0.009	55.17	0.001	60.92	0.000
3.50	0.040	9.25	0.482	15.00	12.046	20.75	8.411	26.50	4.156	32.25	1.052	38.00	0.224	43.75	0.051	49.50	0.008	55.25	0.001	61.00	0.000
3.58	0.040	9.33	0.502	15.08	12.099	20.83	8.338	26.58	4.092	32.33	1.031	38.08	0.219	43.83	0.050	49.58	0.008	55.33	0.001	61.08	0.000
3.67	0.041	9.42	0.523	15.17	12.130	20.92	8.266	26.67	4.028	32.42	1.010	38.17	0.214	43.92	0.048	49.67	0.008	55.42	0.001	61.17	0.000
3.75	0.041	9.50	0.543	15.25	12.145	21.00	8.195	26.75	3.964	32.50	0.989	38.25	0.209	44.00	0.047	49.75	0.008	55.50	0.001	61.25	0.000
3.83	0.042	9.58	0.563	15.33	12.154	21.08	8.124	26.83	3.899	32.58	0.968	38.33	0.204	44.08	0.046	49.83	0.007	55.58	0.001	61.33	0.000
3.92	0.042	9.67	0.584	15.42	12.165	21.17	8.054	26.92	3.835	32.67	0.948	38.42	0.199	44.17	0.045	49.92	0.007	55.67	0.001	61.42	0.000
4.00	0.043	9.75	0.607	15.50	12.166	21.25	7.983	27.00	3.769	32.75	0.928	38.50	0.195	44.25	0.044	50.00	0.007	55.75	0.001	61.50	0.000
4.08	0.045	9.83	0.628	15.58	12.174	21.33	7.913	27.08	3.703	32.83	0.908	38.58	0.190	44.33	0.043	50.08	0.007	55.83	0.001	61.58	0.000
4.17	0.047	9.92	0.648	15.67	12.184	21.42	7.844	27.17	3.638	32.92	0.889	38.67	0.186	44.42	0.042	50.17	0.007	55.92	0.001	61.67	0.000
4.25	0.050	10.00	0.669	15.75	12.193	21.50	7.774	27.25	3.575	33.00	0.871	38.75	0.182	44.50	0.041	50.25	0.007	56.00	0.001	61.75	0.000
4.33	0.052	10.08	0.693	15.83	12.198	21.58	7.705	27.33	3.512	33.08	0.854	38.83	0.178	44.58	0.040	50.33	0.006	56.08	0.001	61.83	0.000
4.42	0.054	10.17	0.721	15.92	12.200	21.67	7.637	27.42	3.451	33.17	0.837	38.92	0.174	44.67	0.039	50.42	0.006	56.17	0.001	61.92	0.000
4.50	0.056	10.25	0.752	16.00	12.199	21.75	7.568	27.50	3.392	33.25	0.821	39.00	0.171	44.75	0.038	50.50	0.006	56.25	0.001	62.00	0.000
4.58	0.058	10.33	0.782	16.08	12.189	21.83	7.497	27.58	3.333	33.33	0.804	39.08	0.167	44.83	0.037	50.58	0.006	56.33	0.001	62.08	0.000
4.67	0.060	10.42	0.812	16.17	12.173	21.92	7.427	27.67	3.276	33.42	0.789	39.17	0.163	44.92	0.036	50.67	0.006	56.42	0.001	62.17	0.000
4.75	0.062	10.50	0.843	16.25	12.148	22.00	7.357	27.75	3.219	33.50	0.773	39.25	0.160	45.00	0.035	50.75	0.006	56.50	0.001	62.25	0.000
4.83	0.064	10.58	0.878	16.33	12.123	22.08	7.292	27.83	3.163	33.58	0.758	39.33	0.156	45.08	0.034	50.83	0.005	56.58	0.001	62.33	0.000
4.92	0.066	10.67	0.918	16.42	12.093	22.17	7.230	27.92	3.107	33.67	0.743	39.42	0.153	45.17	0.033	50.92	0.005	56.67	0.001	62.42	0.000
5.00	0.068	10.75	0.963	16.50	12.072	22.25	7.168	28.00	3.052	33.75	0.728	39.50	0.150	45.25	0.032	51.00	0.005	56.75	0.001	62.50	0.000
5.08	0.070	10.83	1.007	16.58	12.026	22.33	7.106	28.08	3.000	33.83	0.714	39.58	0.147	45.33	0.031	51.08	0.005	56.83	0.001	62.58	0.000
5.17	0.072	10.92	1.051	16.67	11.978	22.42	7.045	28.17	2.949	33.92	0.700	39.67	0.144	45.42	0.031	51.17	0.005	56.92	0.001	62.67	0.000
5.25	0.075	11.00	1.094	16.75	11.943	22.50	6.983	28.25	2.899	34.00	0.687	39.75	0.141	45.50	0.030	51.25	0.005	57.00	0.001	62.75	0.000
5.33	0.077	11.08	1.145	16.83	11.899	22.58	6.923	28.33	2.847	34.08	0.673	39.83	0.138	45.58	0.029	51.33	0.005	57.08	0.001	62.83	0.000
5.42	0.080	11.17	1.205	16.92	11.850	22.67	6.865	28.42	2.795	34.17	0.660	39.92	0.135	45.67	0.028	51.42	0.004	57.17	0.001	62.92	0.000
5.50	0.083	11.25	1.275	17.00	11.798	22.75	6.809	28.50	2.744	34.25	0.647	40.00	0.132	45.75	0.028	51.50	0.004	57.25	0.001	63.00	0.000
5.58	0.086	11.33	1.340	17.08	11.742	22.83	6.756	28.58	2.693	34.33	0.634	40.08	0.129	45.83	0.027	51.58	0.004	57.33	0.001	63.08	0.000
5.67	0.089	11.42	1.404	17.17	11.673	22.92	6.701	28.67	2.643	34.42	0.622	40.17	0.127	45.92	0.026	51.67	0.004	57.42	0.001	63.17	0.000

APPENDIX J

SWMHYMO Model Schematic

SWMHYMO MODEL SCHEMATIC



BY : JFSA inc. WATER RESOURCES AND ENVIRONMENTAL CONSULTANTS

CLIENT : RIDEAU VALLEY CONSERVATION AUTHORITY
3889 RIDEAU VALLEY DRIVE
MANOTICK, ONTARIO, K4M 1A5
(613) 692-3571

PROJECT : **VILLAGE OF RICHMOND FLOODPLAIN MAPPING**

TITLE : **Hydrologic Model Schematic**

APPENDIX K

No.	BY	DATE	DESCRIPTION	APPR.

DRAWING REF.: SWMHYMO Model Schematic.dwg

LEGEND:

3 ROUTE CHANNEL

(+) ADD HYDROGRAPH

SAVE HYDROGRAPH

DESIGNED :	
DRAWN :	B.W.
VERIFIED :	
APPROVED :	J.F.S
DATE	PROJECT No.
June/09	709-08

APPENDIX K

Structures Details

P709 – Richmond Floodplain Mapping
Structures

MC = Main Channel
JRT = Joys Road Tributary
MD = Moore Drain

Structure Location	Material	Length (m)	Width (m)	Height (m)	Inverts		Source of Information [(1)]	Included in JFSA HEC-RAS Models (Y/N)	Comments
					Upstream (m)	Downstream (m)			
339 m Downstream of Garvin Road (MC)	-	-	-	-	-	-	No Info Available	N	-
385m Upstream of Perth Street (MC)	CSP	10.0	2.0	2.0	93.07	93.05	Robinson 2003 Report	Y	2003 Report: Proposed Culvert
100 m Upstream of Perth Street (MC)	Steel	5.0	1.2	1.2	92.49	92.45	Robinson 2003 Report	N	2003 Report: To Be Removed
Perth Street Culvert (MC)	Concrete	27.8	4.9	1.8	92.61	92.47	J.D. Barnes Survey 07/30/2008	Y	-
335 m Downstream of Perth Street (MC)	PVC	3.2	1.0	1.0	92.02	92.13	Robinson 2008 Cross Sections	N	-
Fortune Street Culvert	Concrete	18.6	4.2	2.4	91.73	91.74	Robinson 2008 Cross Sections	Y	-
Fowler Street Culvert	Concrete	10.4	4.1	2.1	91.06	91.08	2004 HEC-RAS Model	Y	-
285 m From MC (JRT)	-	5.1	-	-	-	-	No Info Available	N	-
Cross Culvert - Joy's Road (JRT)	CSP	11.0	1.5	1.5	96.16	95.83	JFSA Surveyed	Y	-
78 m From MC (MD)	CSP	6.0	1.0	1.0	92.32	92.23	Robinson 2008 Cross Sections	N	-
598 m From MC (MD)	CSP	4.2	0.6	0.6	94.33	94.12	Robinson 2008 Cross Sections	N	-

[(1)] No information available means the existance of a structure is indicated on the 1:2000 mapping, however the verification of the existance and details of the structure was not completed

APPENDIX L

Background Information on Snowmelt + Rain Events

EXPLANATION OF RAIN + SNOWMELT EXTREME VALUE ANALYSIS

PREPARED BY THE HYDROMETEOROLOGY DIVISION, CANADIAN CLIMATE CENTRE
ATMOSPHERIC ENVIRONMENT SERVICE

Daily rainfall and snowmelt estimates for the noted stations are analysed assuming a Gumbel extreme value distribution. Data are for the period of record shown on the attached computer printout. The results provide annual extreme values for durations from 1 to 30 days and estimated amounts for return periods up to 100 years. The snowmelt estimates were based on degree-day type equations. Five different snowmelt equations were used giving five different sets of snowmelt values.

Data

The input data used in this analysis and in the calculation of the snowmelt estimates were daily maximum and minimum temperatures, daily rainfall total and daily depth of fresh snow measurements by ruler. A snow density of 0.1 was assumed to convert snow depth into its water equivalent. Such snow measurements may not be spatially representative. The snowmelt estimates should therefore be considered with the same precaution in mind.

Snowmelt Calculation

Daily snowmelt estimates were calculated using degree-day type equations. Five different equations were used and a description of each is given below. The units of measure indicated below are the units used in the original presentation of the model. All models and resulting output have been converted to metric (SI) units in the computer software. The algorithm for accumulating and depleting the snow pack is given in Figure 1.

1) **Model 1 - <u>Eastern Canada Forested Basin</u>**

SM1 = 0.0397 (Ta - 27.6) (inches/day)
Ta = mean daily air temperatures F

Ref: Pysklywec, D.W., K.S. Davar and D.I. Bray (1968): Snowmelt at an Index Plot, Water Resour. Res., 4(5), 937-946.

2) **Model 2 - <u>Western North America Mountain Basin</u>**

SM2 = (0.074 + 0.007 R) (Ta - 32) + 0.05 (inches/day)
R = daily rainfall in inches
Ta = mean daily air temperature F

Ref: United States Army Corps of Engineers (1956): Snow Hydrology, North Pacific Division, Portland, Oregon

3) **Model 3 - <u>Western Canada Mountain Basin</u>**

SM3 = 3.0 (Ta + TCA) (((Tx - TN)/8) + TN) (mm/day)
Ta = mean daily air temperatures C
Tx = maximum daily temperature C
TN = minimum daily temperature C
TCA = (TN/4.4) but must be IN THE RANGE OF 0 TO 1.5

Ref: Quick, M.C. and A. Pipes (1975): The UBC Watershed Model, Proceedings of Symposium in Bratislava, Application of Mathematical Models in Hydrology and Water Resource Systems, IAHS Pub. No. 115

4) **Model 4 - <u>Southern Ontario</u>**

SM4 = 0.02 (Tx - 32) (inches/day)
Tx = maximum daily air temperature F

Ref: Bruce, J.P. and R.H. Clark (1966): Introduction to Hydro meteorology, p. 257, Pergamon Press, Toronto

5) **Model 5 - <u>Modification of Model 4</u>**

SM5 = 0.08 (Ta - 32) (inches/day)
Ta = mean daily air temperature F

Method of Analysis

The algorithm is based upon synthetic snowpacks which are accumulated according to the daily snowfall measurements and depleted according to the snowmelt as determined by each of the snowmelt models. The algorithm ceases to operate when the synthetic snowpack is reduced to zero. Daily rainfall is added to the daily snowmelt as calculated by each model and the maxima of the combined rain plus snowmelt values are used to determine the annual maximum series for the different durations.

Maximum annual values for rainfall plus snowmelt for each of the five snowmelt estimate data sets were determined for 1 to 30 day periods. These annual maximum value series were then analyzed assuming a Gumbel extreme value (EV1) distribution and using a method of moments fit (see Hogg and Carr, 1985) to derive extreme value estimates for return periods up to 100 years. The annual maximum values for each duration period have been tabulated together with the starting date of each maximum event.

No attempt was made to estimate missing data. Periods with missing data were not analyzed for maximum values but an annual maximum was still deter mined provided 90% of the data were available for the critical period of the year as specified on the printout. Such annual maxima based on an incomplete data year are flagged; (**).

Rigorous testing of the annual maximum series for goodness of fit to the Gumbel distribution has not been done. However, plots of several randomly chosen series on Gumbel graph paper have shown reasonably good fits. (See Louie and Hogg, 1980)

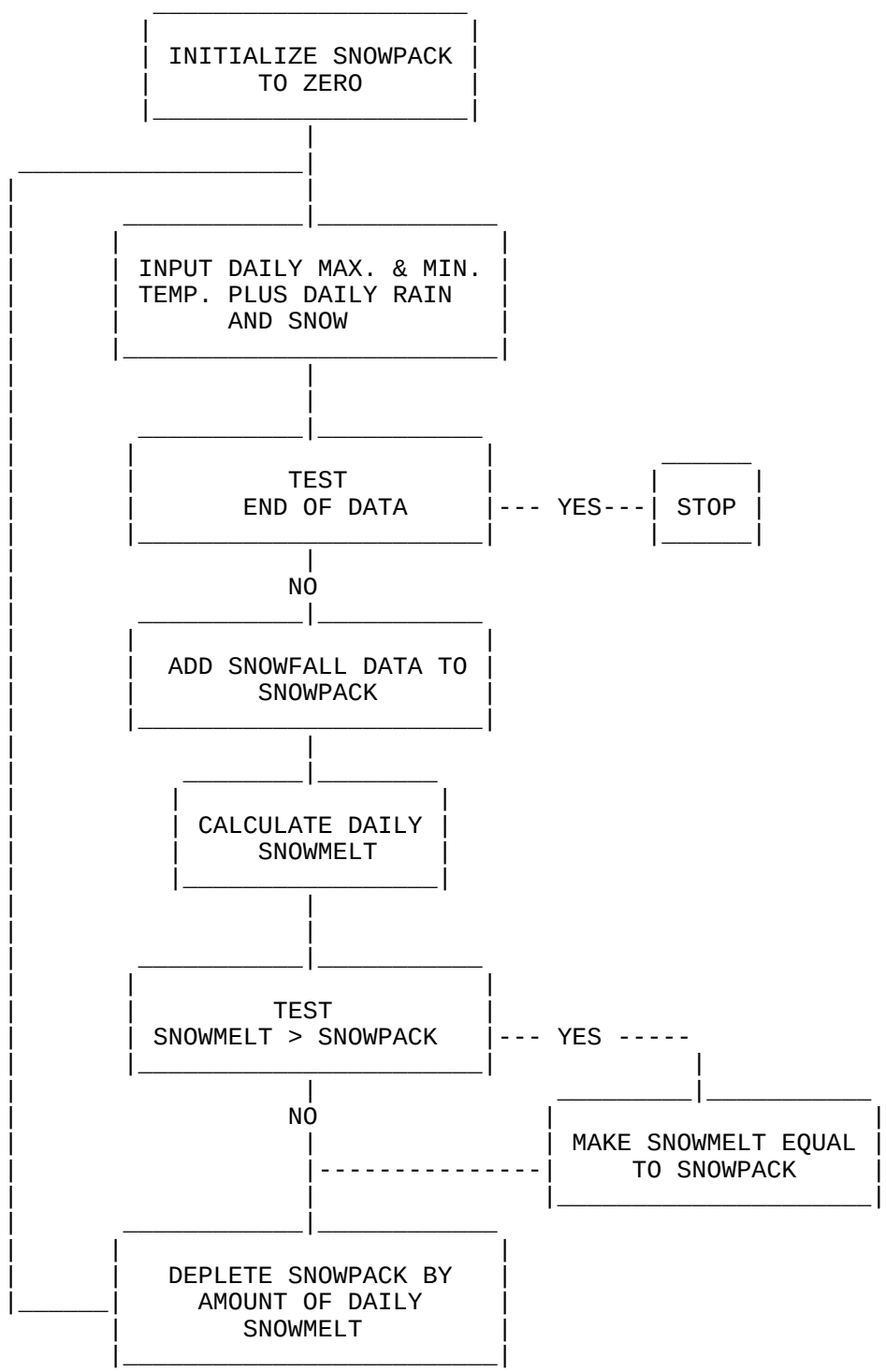
References

Hogg, W.D. and D.A. Carr, 1985. Rainfall Frequency Atlas for Canada. 90 pp., Supply & Services Canada, ISBN 0-660-52992-0, Ottawa.

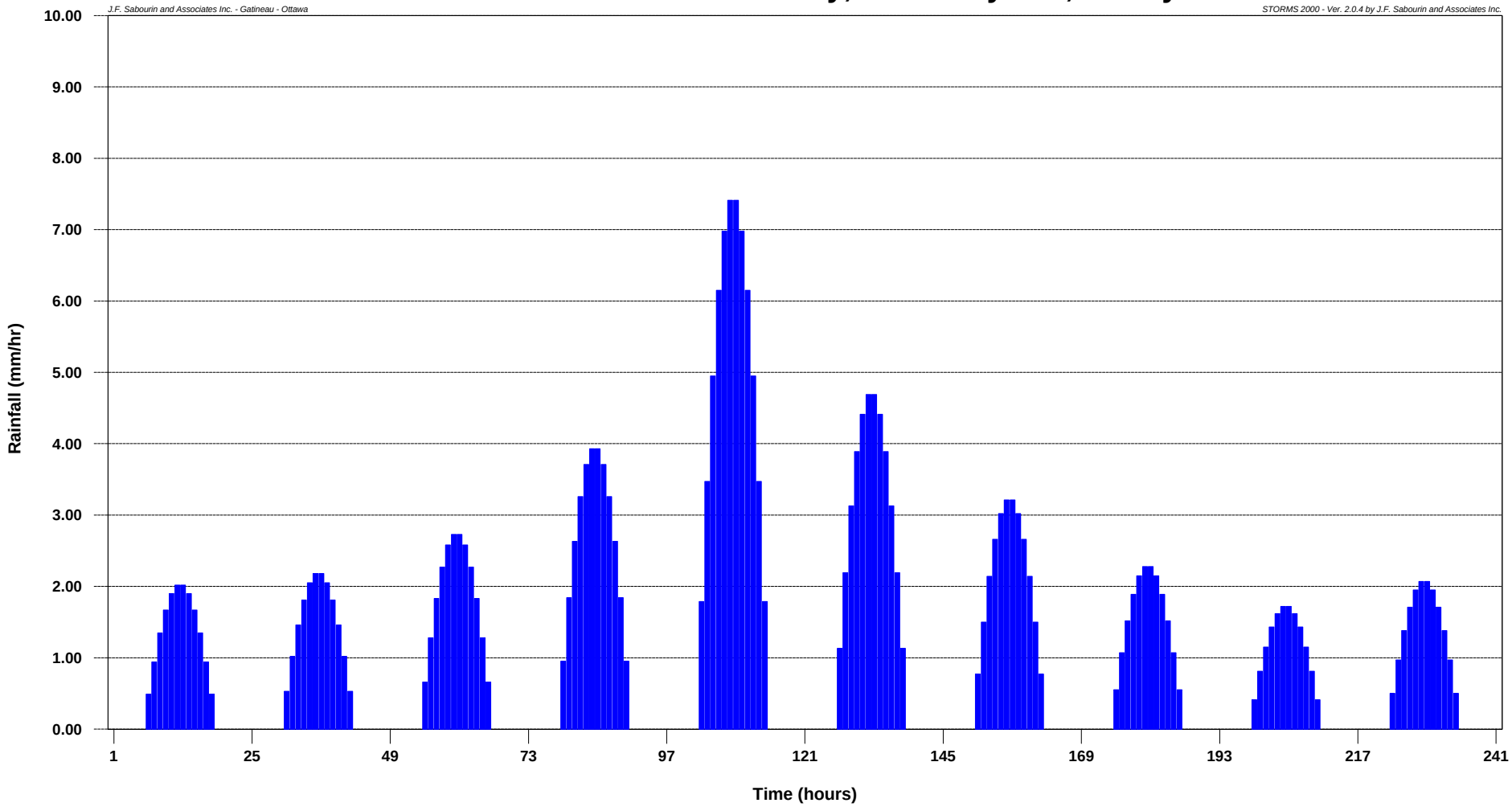
Louie, P.Y.T. and W.D. Hogg, 1980. Extreme Value Estimates of Snowmelt, Proc. CDN. Hydrol. Symp.: 80. PP 64-78. NRC Ottawa

FIGURE # 1

ALGORITHM FOR ACCUMULATING AND DEPLETING THE SNOWPACK



Model 5 CDA - S+Rain 12hr/day, RTP 100 years, 10 Days.



Storm Statistics:

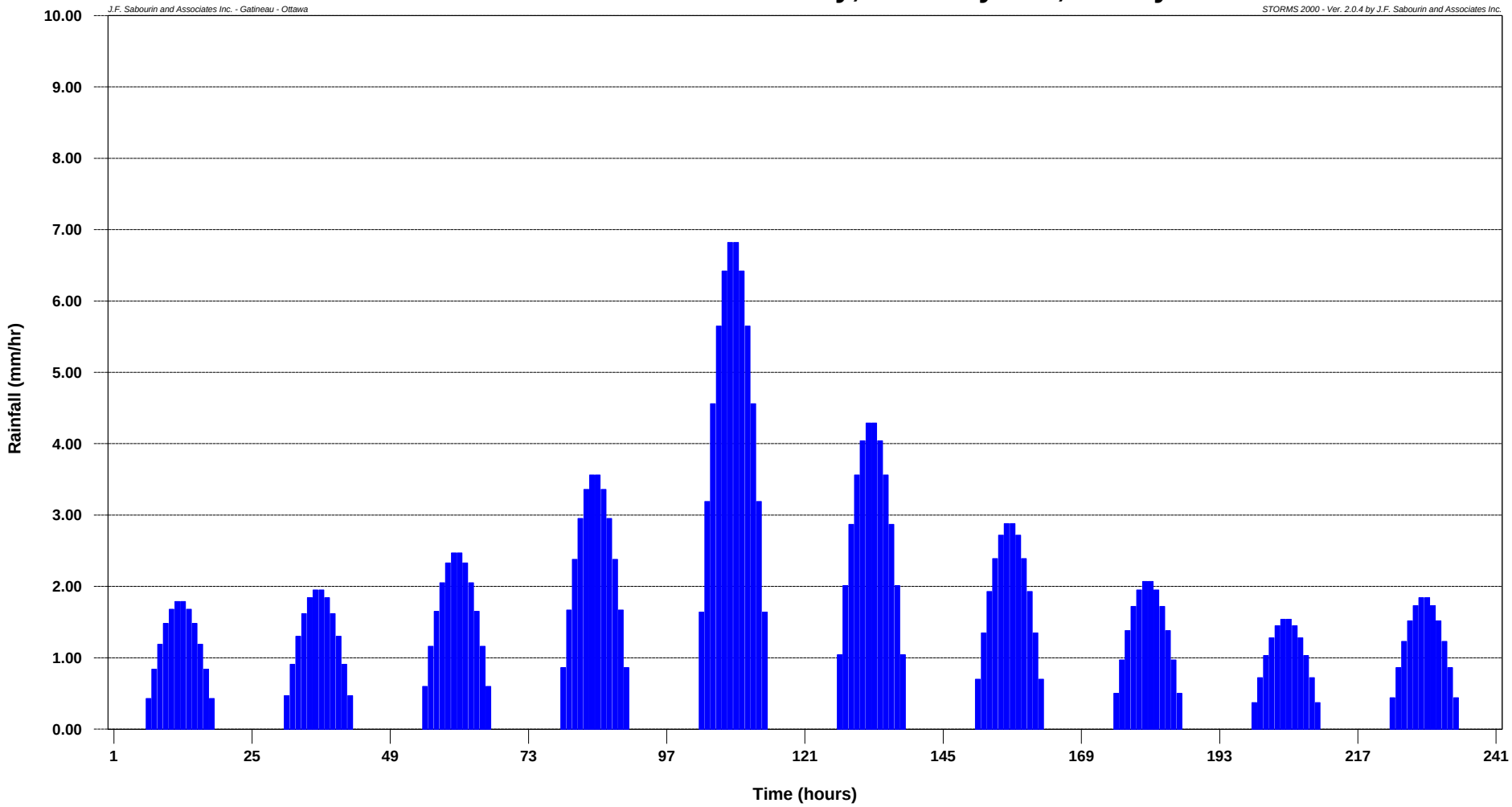
Storm Filename: D:\Proj\411-02\SWMHYMO\Snowmelt and Rain\51001012.stm
Storm File Comment: Model 5 CDA - S+Rain 12hr/day, RTP 100 years, 10 Days.

Total Rain	=	267.52 (mm)
Storm Duration (hrs):	=	240:00:00
Ave. Intensity	=	1.11 (mm/hr)
Max. Intensity	=	7.41 (mm/hr) at 660.00 (minutes)

Maximum Average Intensities: (mm/hr)

Time Window	5 min	10 min	15 min	30 min	1 hr	2 hrs	3 hrs	6 hrs	12 hrs	24 hrs
Ave. Intensity (mm/hr)	7.41	7.41	7.41	7.41	7.41	7.41	7.27	6.85	5.12	2.56

Model 5 CDA - S+Rain 12hr/day, RTP 50 years, 10 Days.



Storm Statistics:

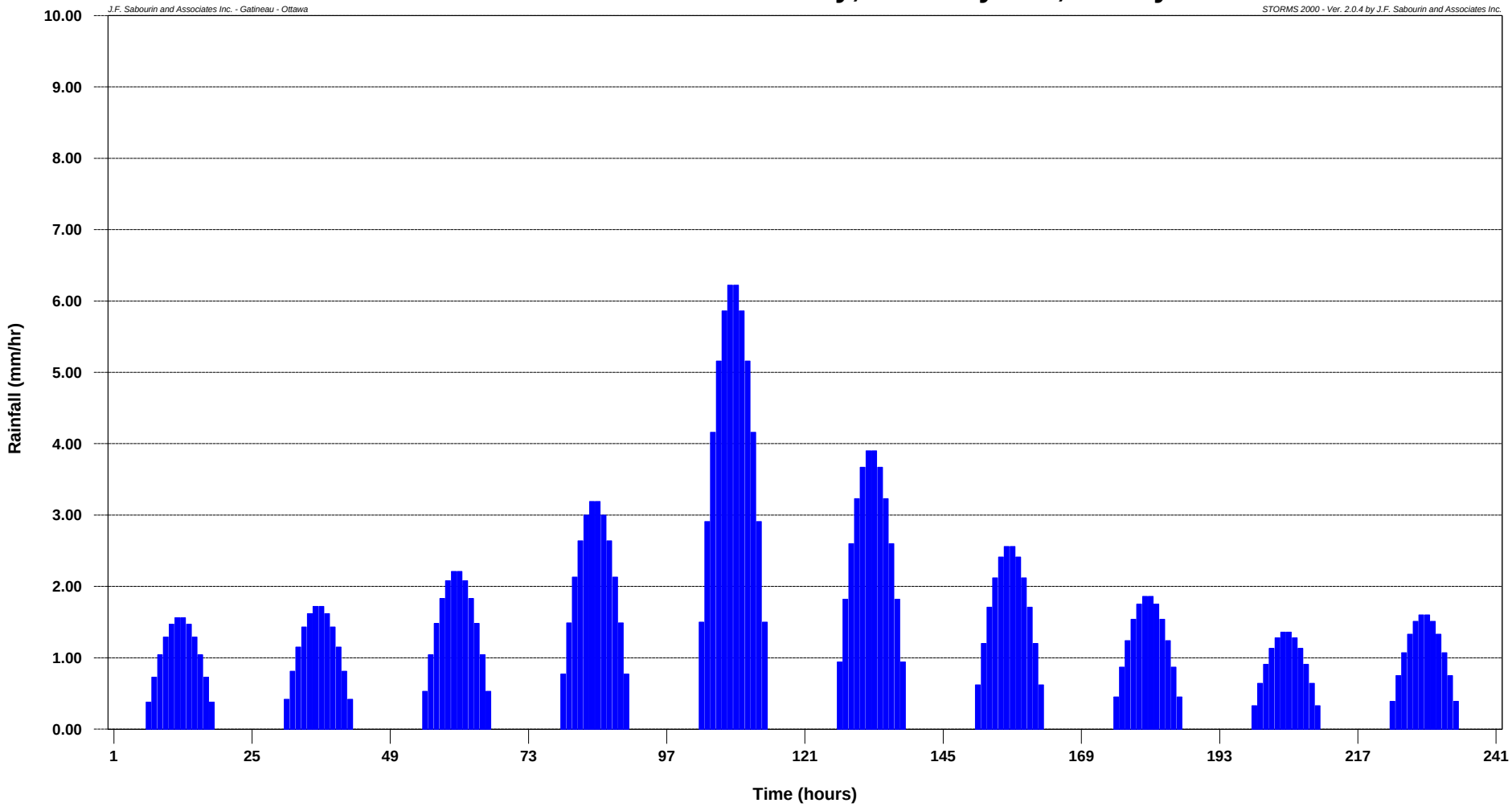
Storm Filename: D:\Proj\411-02\SWMHYMO\Snowmelt and Rain\50501012.stm
Storm File Comment: Model 5 CDA - S+Rain 12hr/day, RTP 50 years, 10 Days.

Total Rain	=	242.40 (mm)
Storm Duration (hrs):	=	240:00:00
Ave. Intensity	=	1.01 (mm/hr)
Max. Intensity	=	6.82 (mm/hr) at 660.00 (minutes)

Maximum Average Intensities: (mm/hr)

Time Window	5 min	10 min	15 min	30 min	1 hr	2 hrs	3 hrs	6 hrs	12 hrs	24 hrs
Ave. Intensity (mm/hr)	6.82	6.82	6.82	6.82	6.82	6.82	6.69	6.30	4.71	2.36

Model 5 CDA - S+Rain 12hr/day, RTP 25 years, 10 Days.



Storm Statistics:

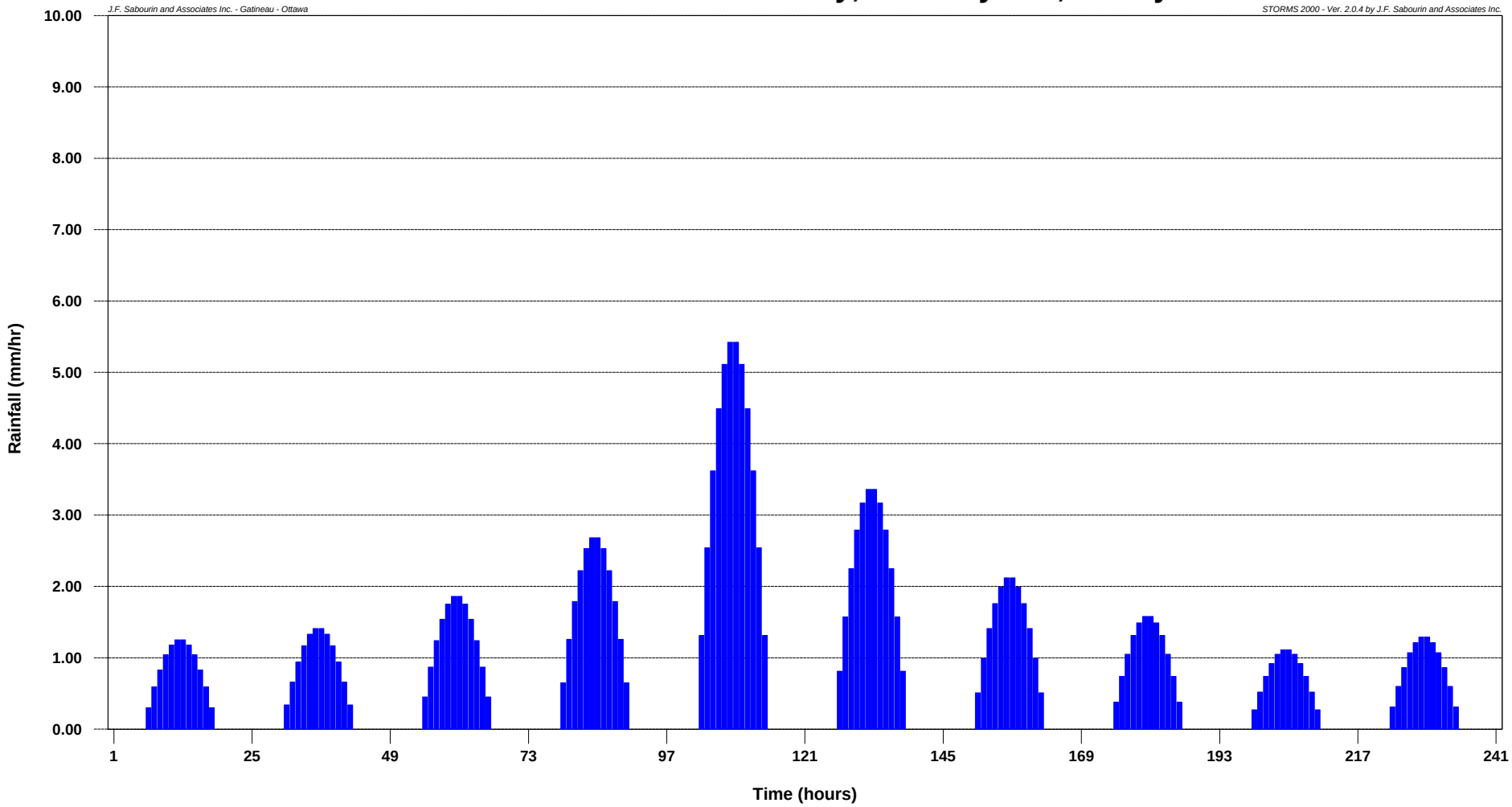
Storm Filename: D:\Proj\411-02\SWMHYMO\Snowmelt and Rain\50251012.stm
Storm File Comment: Model 5 CDA - S+Rain 12hr/day, RTP 25 years, 10 Days.

Total Rain	=	217.22 (mm)
Storm Duration (hrs):	=	240:00:00
Ave. Intensity	=	0.91 (mm/hr)
Max. Intensity	=	6.22 (mm/hr) at 660.00 (minutes)

Maximum Average Intensities: (mm/hr)

Time Window	5 min	10 min	15 min	30 min	1 hr	2 hrs	3 hrs	6 hrs	12 hrs	24 hrs
Ave. Intensity (mm/hr)	6.22	6.22	6.22	6.22	6.22	6.22	6.10	5.75	4.30	2.15

Model 5 CDA - S+Rain 12hr/day, RTP 10 years, 10 Days.



Storm Statistics:

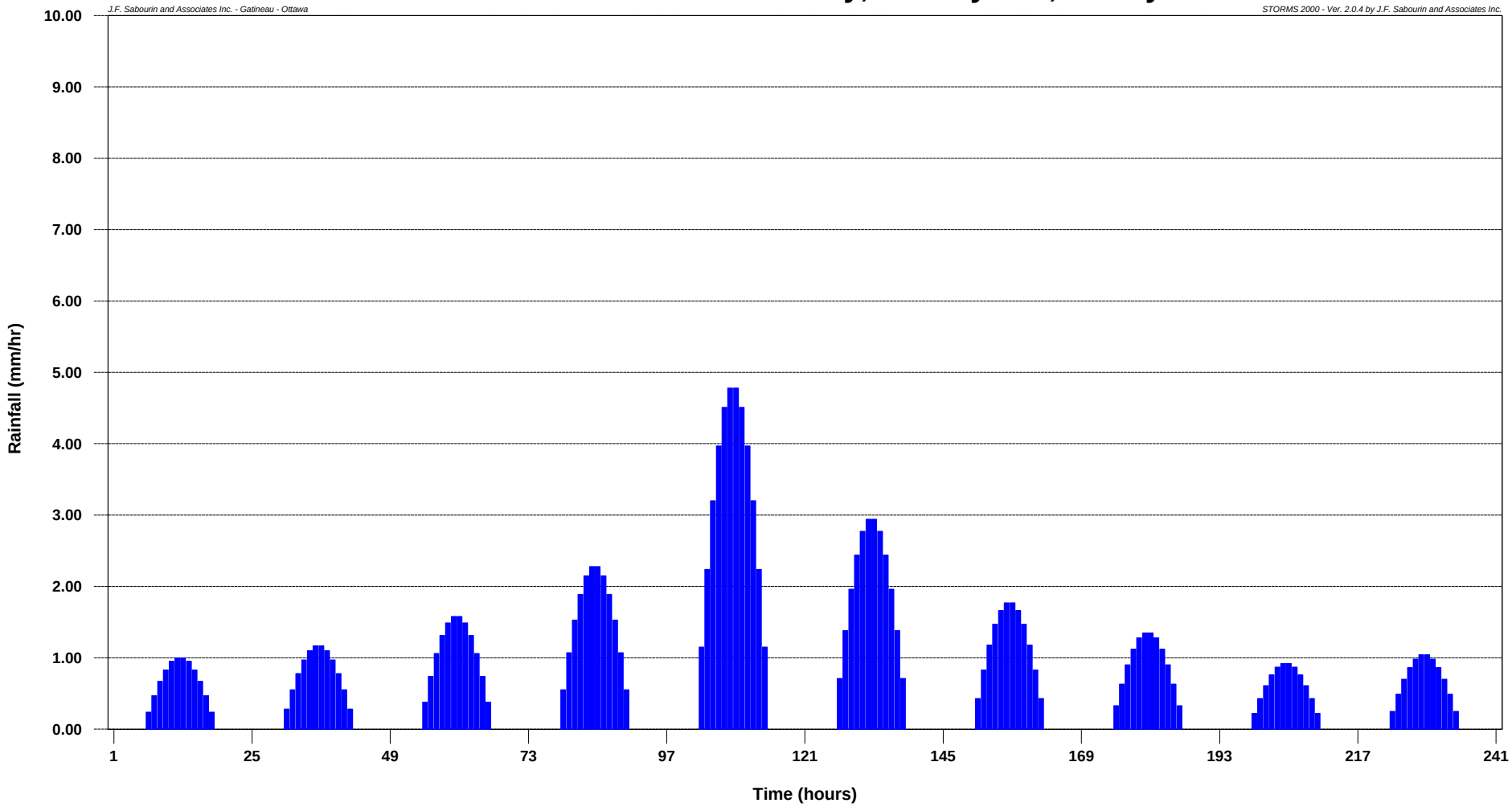
Storm Filename: D:\Proj\411-02\SWMHYMO\Snowmelt and Rain\50101012.stm
Storm File Comment: Model 5 CDA - S+Rain 12hr/day, RTP 10 years, 10 Days.

Total Rain	=	183.20 (mm)
Storm Duration (hrs):	=	240:00:00
Ave. Intensity	=	0.76 (mm/hr)
Max. Intensity	=	5.42 (mm/hr) at 660.00 (minutes)

Maximum Average Intensities: (mm/hr)

Time Window	5 min	10 min	15 min	30 min	1 hr	2 hrs	3 hrs	6 hrs	12 hrs	24 hrs
Ave. Intensity (mm/hr)	5.42	5.42	5.42	5.42	5.42	5.42	5.32	5.01	3.75	1.87

Model 5 CDA - S+Rain 12hr/day, RTP 5 years, 10 Days.



Storm Statistics:

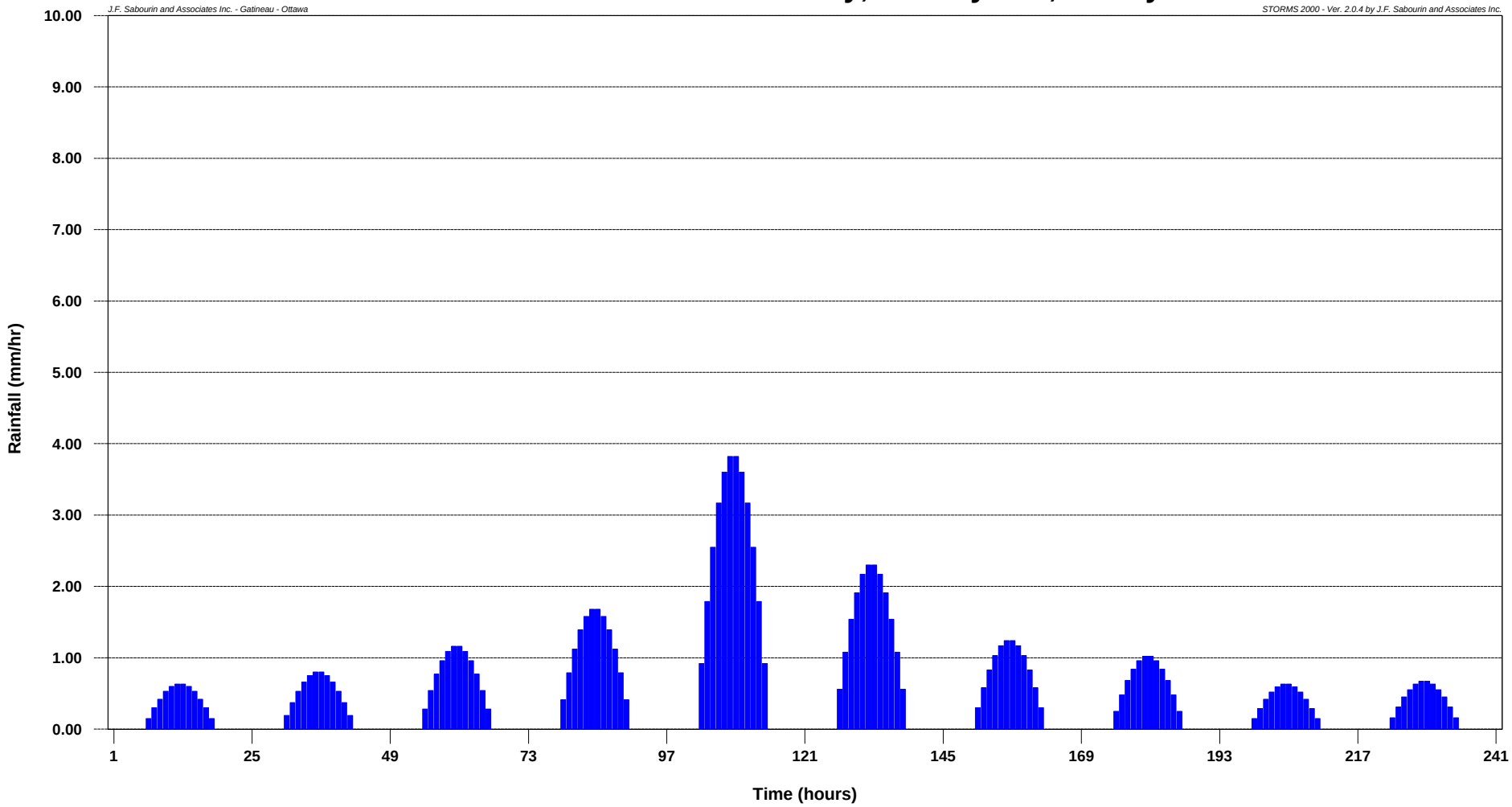
Storm Filename: D:\Proj\411-02\SWMHYMO\Snowmelt and Rain\50051012.stm
Storm File Comment: Model 5 CDA - S+Rain 12hr/day, RTP 5 years, 10 Days.

Total Rain	=	156.34 (mm)
Storm Duration (hrs):	=	240:00:00
Ave. Intensity	=	0.65 (mm/hr)
Max. Intensity	=	4.78 (mm/hr) at 660.00 (minutes)

Maximum Average Intensities: (mm/hr)

Time Window	5 min	10 min	15 min	30 min	1 hr	2 hrs	3 hrs	6 hrs	12 hrs	24 hrs
Ave. Intensity (mm/hr)	4.78	4.78	4.78	4.78	4.78	4.78	4.69	4.42	3.31	1.65

Model 5 CDA - S+Rain 12hr/day, RTP 2 years, 10 Days.



Storm Statistics:

Storm Filename: D:\Proj\411-02\SWMHYMO\Snowmelt and Rain\50021012.stm
Storm File Comment: Model 5 CDA - S+Rain 12hr/day, RTP 2 years, 10 Days.

Total Rain	=	115.72 (mm)
Storm Duration (hrs):	=	240:00:00
Ave. Intensity	=	0.48 (mm/hr)
Max. Intensity	=	3.82 (mm/hr) at 660.00 (minutes)

Maximum Average Intensities: (mm/hr)

Time Window	5 min	10 min	15 min	30 min	1 hr	2 hrs	3 hrs	6 hrs	12 hrs	24 hrs
Ave. Intensity (mm/hr)	3.82	3.82	3.82	3.82	3.82	3.82	3.75	3.53	2.64	1.32

```
 1-30 DAY ANALYSES (0 = RAIN, 1 = RAIN+SNOWMELT)     1.0
LOWER AND UPPER MONTHS TESTED ARE :     1    12
VALUE  OF - ITEST ( 0 VALID DATA CALCULATED, 1 ALL DATA VALID )   0
MODELS ANALYSED ARE:   1   2   3   4   5


 6105976  Ottawa CDA, Ontario       4523  7543    79
                                        ATMOSPHERIC ENVIRONMENT SERVICE
                                   RAIN+SNOWMELT INTENSITY, DURATION, FREQUENCY VALUES
                                PREPARED BY THE HYDROMETEOROLOGY DIVISION, CANADIAN CLIMATE CENTRE
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STATION : Ottawa CDA, Ontario — STATION NUMBER 6105976

LATITUDE: 4523 LONGITUDE: 7543 ELEVATION(M): 79

SNOWMELT MODEL 1

CRITICAL PERIOD : 1ST OF MONTH 10 TO THE END OF MONTH 5 — NOTE : MODIFIED GUMBEL 12/82

YR	TOTAL DAYS	% VALID	FLAG	START MAX	1 DAY	2 DAY	3 DAY	4 DAY	5 DAY	6 DAY	7 DAY	8 DAY	9 DAY	10 DAY	15 DAY	20 DAY	25 DAY	30 DAY	MAX SNPK
1890	242	88	**	D/M	2/15	4/ 3	4/ 3	12/ 8	2/25	2/24	2/24	2/24	2/24	3/26	2/15	2/24	3/11	2/13	
				.1MM	295	341	341	351	417	472	472	472	472	508	522	564	564	660	
1891	273	100		D/M	3/ 9	4/10	3/21	3/21	3/ 9	3/29	3/28	3/28	3/21	3/21	3/28	3/23	3/21	3/13	
				.1MM	355	460	587	666	723	779	843	861	895	974	1186	1269	1409	1509	1788
1892	274	100		D/M	4/ 5	4/ 5	4/ 4	4/ 5	4/ 4	4/ 3	4/ 3	4/ 2	4/ 1	3/31	3/26	3/24	3/24	3/11	
				.1MM	292	537	727	916	1106	1271	1403	1482	1511	1539	1572	1651	1679	1703	1558
1893	273	100		D/M	4/13	4/12	4/11	4/10	4/10	4/ 8	4/ 8	4/ 8	4/ 8	4/ 8	3/31	3/30	3/24	3/21	
				.1MM	266	466	615	710	792	981	1063	1063	1087	1159	1188	1188	1219	1326	1673
1894	273	100		D/M	4/ 4	3/ 6	3/ 5	3/ 4	3/ 3	3/ 2	3/ 2	3/ 5	3/ 4	3/ 2	3/ 5	3/ 2	3/ 1	3/ 3	
				.1MM	211	348	530	578	626	725	739	755	803	882	950	974	988	1015	1998
1895	273	100		D/M	4/14	4/ 8	4/ 7	4/14	4/14	4/13	4/12	4/ 8	4/ 8	4/ 8	4/ 4	4/ 1	3/25	3/24	
				.1MM	305	536	688	808	1000	1139	1297	1309	1464	1649	1841	1993	2057	2131	1739
1896	274	100		D/M	3/ 2	4/16	4/15	4/14	4/13	4/12	4/11	4/10	4/ 9	4/ 8	4/ 3	3/31	3/27	3/19	
				.1MM	370	623	836	1071	1216	1345	1449	1518	1592	1646	1669	1672	1672	1672	1818
1897	273	100		D/M	3/10	3/20	3/20	3/20	3/19	3/19	3/19	3/19	3/19	3/20	3/19	3/19	3/10	3/ 5	
				.1MM	262	289	384	473	537	596	634	662	720	769	874	973	1072	1207	975
1898	273	100		D/M	12/11	3/12	3/11	3/10	3/ 9	3/ 8	3/11	3/10	3/11	3/11	3/ 9	3/ 8	3/ 7	3/ 7	
				.1MM	337	519	684	789	874	913	993	1098	1229	1359	1464	1549	1588	1632	1805
1899	242	88	**	D/M	4/ 8	4/17	4/12	4/12	4/14	4/13	4/12	4/11	4/10	4/ 8	4/ 6	4/ 3	3/29	3/23	
				.1MM	214	315	426	555	665	790	949	998	1012	1110	1300	1378	1412	1412	
1900	273	100		D/M	2/13	12/11	4/11	4/11	4/11	4/ 3	4/ 2	4/ 6	4/ 6	4/ 5	4/ 1	3/27	3/23	3/20	
				.1MM	328	360	455	569	635	692	781	883	997	1106	1180	1294	1383	1449	1579
1901	273	100		D/M	4/ 4	4/ 3	4/ 3	11/18	4/10	4/ 9	4/ 8	4/ 3	4/ 3	4/ 4	3/31	3/26	3/21	3/21	
				.1MM	287	460	587	701	834	1025	1213	1330	1470	1636	1841	2014	2098	2162	1977
1902	273	100		D/M	12/15	12/14	12/13	2/28	3/21	3/21	3/20	3/20	3/16	3/17	3/12	3/ 7	3/ 1	2/26	
				.1MM	292	538	554	597	672	797	846	873	879	994	1117	1246	1335	1439	1677
1903	273	100		D/M	3/23	3/19	3/19	3/20	3/19	3/19	3/18	3/17	3/16	3/15	3/10	3/ 5	2/28	2/27	
				.1MM	246	415	585	726	936	1065	1160	1274	1308	1326	1390	1459	1590	1719	1791
1904	274	100		D/M	4/10	4/10	4/ 9	4/ 8	4/ 8	4/ 8	4/ 7	4/ 6	4/ 5	4/ 2	3/31	4/ 7	4/ 2	3/27	
				.1MM	389	661	786	942	1057	1164	1269	1354	1388	1501	1616	1723	1792	1881	2573
1905	273	100		D/M	4/10	4/ 9	4/ 4	4/ 3	4/ 3	4/ 5	4/ 4	4/ 3	4/ 2	3/28	3/27	3/23	3/18	3/18	

			.1MM	210	345	467	571	646	762	952	1056	1090	1203	1300	1398	1573	1688	2012
1906	273	100	D/M	3/27	3/27	3/26	3/26	12/27	12/27	12/27	12/27	12/23	12/22	12/22	12/22	12/29	12/27	
			.1MM	339	382	405	405	437	437	437	437	445	463	463	463	463	468	308
1907	273	100	D/M	3/24	3/23	3/28	3/27	3/26	3/24	3/24	3/23	3/22	3/22	3/22	3/22	3/17	3/13	
			.1MM	236	371	492	602	705	794	945	1080	1175	1229	1229	1253	1298	1367	1095
1908	274	100	D/M	3/16	4/25	4/24	4/23	4/23	4/22	4/21	4/20	4/19	4/18	4/13	4/ 8	4/ 3	3/29	
			.1MM	341	449	639	814	964	1022	1081	1231	1350	1419	1457	1607	1681	1755	2370
1909	273	100	D/M	5/ 1	4/13	4/13	4/13	4/12	4/12	4/12	4/ 7	4/ 6	4/ 6	4/ 3	3/29	3/25	3/20	
			.1MM	387	642	751	906	1015	1091	1091	1096	1320	1429	1584	1669	1758	1834	1809
1910	273	100	D/M	11/23	1/21	1/21	1/21	1/18	3/ 2	3/ 1	2/28	2/27	2/27	2/27	3/ 3	2/27	2/21	
			.1MM	279	387	411	445	469	542	579	684	722	722	722	722	722	792	875
1911	273	100	D/M	4/14	4/14	4/13	4/12	4/12	4/13	4/14	4/13	4/13	4/12	4/ 7	4/ 5	3/27	3/26	
			.1MM	340	492	641	726	785	864	1030	1179	1298	1383	1427	1521	1610	1631	1685
1912	274	100	D/M	4/16	4/16	4/15	4/14	4/13	4/12	4/12	4/11	4/11	4/ 8	4/ 6	3/30	3/29	3/19	
			.1MM	342	637	706	791	900	1009	1076	1131	1131	1396	1571	1711	1778	1778	1664
1913	273	100	D/M	1/ 3	3/24	3/19	3/21	3/21	3/20	3/19	3/19	3/18	3/18	3/21	3/14	3/11	3/11	
			.1MM	309	474	536	615	784	909	1054	1101	1105	1105	1269	1438	1485	1529	1374
1914	273	100	D/M	3/30	3/26	3/30	3/30	3/26	3/26	3/26	3/26	3/26	3/26	3/26	3/26	3/26	3/18	
			.1MM	145	264	349	475	537	626	741	867	867	867	888	901	919	1034	1348
1915	273	100	D/M	11/16	11/15	11/15	11/13	11/12	3/21	3/21	3/21	3/21	3/21	3/21	3/21	3/11	3/ 6	
			.1MM	395	405	409	429	453	500	500	528	528	528	591	676	726	815	1122
1916	274	100	D/M	4/17	4/13	4/12	4/23	4/23	4/12	4/12	4/11	4/10	4/17	4/12	4/ 8	4/ 2	3/28	
			.1MM	190	360	500	658	741	854	971	1065	1174	1272	1387	1470	1616	1796	2864
1917	273	100	D/M	4/ 1	4/19	4/18	4/17	4/17	4/16	4/15	4/14	4/13	4/12	3/24	4/ 1	3/27	3/23	
			.1MM	292	489	727	877	1009	1098	1197	1281	1335	1383	1431	1455	1557	1611	2453
1918	273	100	D/M	4/ 2	4/13	4/13	4/12	4/11	4/10	4/ 2	4/ 1	4/ 6	4/ 6	4/ 1	3/28	3/22	3/17	
			.1MM	211	395	561	707	796	824	918	1098	1246	1412	1481	1529	1608	1788	2547
1919	273	100	D/M	3/17	3/17	3/17	4/ 5	3/17	4/ 3	4/ 3	3/17	3/17	3/17	3/16	3/17	3/16	3/11	
			.1MM	200	360	409	484	568	593	662	726	794	903	1074	1084	1084	1084	1334
1920	274	100	D/M	3/27	3/26	3/25	3/24	3/24	3/23	3/24	3/23	3/22	3/21	3/17	3/11	3/ 6	3/ 6	
			.1MM	236	437	642	822	995	1104	1206	1315	1354	1403	1403	1403	1497	1581	1443
1921	273	100	D/M	3/20	3/ 8	3/ 7	3/ 6	3/16	3/16	3/ 3	3/ 2	3/ 1	2/28	3/ 6	3/ 1	2/28	2/23	
			.1MM	295	316	324	403	494	494	508	605	694	745	745	782	847	855	550
1922	273	100	D/M	12/18	12/17	3/ 6	4/ 4	4/ 3	4/ 2	4/ 1	3/31	3/ 7	3/ 6	3/24	3/20	3/14	3/ 7	
			.1MM	342	378	402	484	563	638	676	680	686	724	834	908	987	1005	1104
1923	273	100	D/M	4/22	4/21	4/21	4/20	4/19	4/18	4/17	4/16	4/15	4/15	4/10	4/ 4	4/ 3	4/ 3	
			.1MM	365	717	971	1222	1296	1335	1414	1488	1516	1517	1534	1548	1650	1658	1999
1924	274	100	D/M	4/ 8	4/ 7	4/ 6	4/ 5	4/ 4	4/ 5	4/ 5	4/ 4	4/ 4	4/ 4	3/31	3/23	3/21	3/18	
			.1MM	343	533	663	848	937	1025	1165	1254	1313	1392	1449	1503	1503	1503	1916
1925	273	100	D/M	2/11	2/10	3/26	3/25	3/24	3/24	3/22	3/21	3/19	3/19	3/17	3/ 9	3/ 7	3/ 7	
			.1MM	339	484	583	743	832	832	906	994	1070	1250	1334	1362	1362	1362	981
1926	273	100	D/M	5/ 2	5/ 1	4/23	4/22	4/21	4/27	4/22	4/21	4/21	4/23	4/20	4/13	4/ 8	4/ 3	
			.1MM	219	414	573	788	938	1033	1193	1343	1471	1660	1875	2025	2038	2038	2062
1927	273	100	D/M	3/14	3/13	3/13	3/12	3/14	3/13	3/12	3/12	3/12	3/11	3/ 6	3/12	3/13	3/ 8	
			.1MM	229	367	481	590	700	838	947	1026	1080	1114	1129	1216	1295	1354	2011
1928	274	100	D/M	11/22	4/ 6	4/ 5	4/ 5	4/ 4	4/ 3	4/ 3	4/ 3	4/ 3	4/ 3	3/25	3/20	3/15	3/13	
			.1MM	288	375	548	687	782	796	796	796	796	796	796	913	1021	1140	1215
1929	273	100	D/M	1/ 6	3/15	3/14	3/13	3/13	3/13	3/13	3/13	3/13	3/13	3/13	3/ 4	3/ 4	2/27	
			.1MM	274	337	457	576	576	576	655	747	825	914	991	1068	1187	1203	756
1930	273	100	D/M	1/ 8	1/ 7	1/ 7	1/ 7	2/20	2/19	1/ 2	1/ 2	12/31	12/31	12/27	2/21	2/19	2/13	
			.1MM	276	434	434	434	481	570	648	648	652	652	652	680	729	729	927
1931	273	100	D/M	3/29	3/28	3/27	3/26	3/25	3/24	3/23	3/22	3/21	3/20	3/15	3/10	3/ 5	3/ 5	
			.1MM	210	325	420	535	630	739	828	886	925	1020	1048	1127	1181	1266	1158
1932	274	100	D/M	2/12	4/ 9	4/ 9	4/ 9	4/ 8	4/ 7	4/ 6	4/ 6	4/ 7	4/ 7	3/30	3/27	3/27	3/27	
			.1MM	315	326	461	546	615	694	702	702	702	750	798	882	920	928	627

1933	273	100	D/M	12/ 7	4/ 1	4/ 1	3/31	3/30	3/29	3/28	3/27	3/27	3/27	3/20	3/15	3/15	3/ 8	
			.1MM	199	311	402	473	507	535	569	634	634	634	634	634	678	780	450
1934	273	100	D/M	12/31	12/31	4/10	4/ 9	4/10	4/10	4/10	4/10	4/10	4/10	4/10	4/ 6	3/31	3/26	3/26	
			.1MM	732	732	852	947	1022	1233	1424	1579	1774	1989	2084	2159	2233	2297	1836
1935	273	100	D/M	1/ 8	1/ 7	1/ 7	1/ 7	1/ 7	4/ 5	4/ 4	4/ 3	4/ 2	4/ 1	3/28	3/22	3/16	3/12	
			.1MM	186	352	406	455	455	471	494	548	632	666	715	754	886	977	1278
1936	274	100	D/M	3/12	3/12	3/18	3/25	3/18	3/18	3/22	3/22	3/18	3/18	3/16	3/11	3/ 5	3/11	
			.1MM	301	418	507	657	802	881	1000	1119	1240	1355	1576	1695	1759	1787	1223
1937	273	100	D/M	4/ 5	4/ 5	4/ 4	4/ 3	4/ 2	4/ 2	4/ 1	4/ 1	4/ 1	4/ 1	2/ 8	3/19	3/18	12/10	
			.1MM	310	460	504	532	576	599	617	617	617	617	617	620	620	620	452
1938	273	100	D/M	3/23	3/23	3/21	3/23	3/22	3/21	3/20	3/19	3/18	3/17	3/17	3/12	3/12	3/ 5	
			.1MM	241	341	460	654	748	873	1044	1126	1185	1355	1399	1470	1562	1696	1343
1939	273	100	D/M	2/19	4/26	4/25	4/24	4/23	4/22	4/21	4/19	4/19	4/18	4/13	4/11	4/ 5	3/31	
			.1MM	310	394	539	649	827	962	1079	1206	1385	1474	1525	1543	1589	1653	1547
1940	274	100	D/M	4/19	4/18	4/18	4/18	4/18	4/18	4/16	4/16	4/16	4/16	4/ 9	4/ 5	3/31	3/30	
			.1MM	229	437	582	699	826	936	1060	1170	1235	1235	1235	1315	1380	1471	1520
1941	273	100	D/M	12/29	12/28	12/27	12/26	12/26	4/ 6	4/ 6	4/ 5	4/ 4	4/ 3	4/ 2	3/25	3/25	3/16	
			.1MM	414	578	697	767	836	990	1091	1186	1271	1350	1394	1394	1394	1394	1511
1942	273	100	D/M	12/24	12/23	12/23	12/23	12/23	3/16	3/16	3/15	3/16	3/16	3/ 8	3/ 8	3/ 2	2/27	
			.1MM	369	534	534	534	534	544	628	662	691	765	830	864	864	879	861
1943	272	99	D/M	4/25	4/24	4/23	4/23	4/23	4/23	4/22	4/22	4/21	4/20	4/17	4/12	4/ 5	3/31	
			.1MM	270	519	729	894	1087	1272	1437	1575	1690	1778	1877	1961	2009	2009	2177
1944	274	100	D/M	4/10	3/25	3/25	3/24	3/24	3/24	3/25	3/24	3/25	3/25	3/24	3/25	3/17	3/17	
			.1MM	158	230	288	316	334	352	373	401	447	496	524	524	524	534	519
1945	273	100	D/M	12/ 8	3/25	3/24	3/23	3/17	3/16	3/15	3/19	3/18	3/17	3/13	3/13	3/ 2	2/26	
			.1MM	193	358	528	673	815	924	1059	1217	1392	1560	1669	1804	1883	1891	1766
1946	273	100	D/M	3/13	3/13	3/ 6	3/ 6	3/ 6	3/ 3	3/ 8	3/ 7	3/ 6	3/ 6	3/ 2	3/ 2	3/ 2	2/13	
			.1MM	208	376	414	481	481	515	645	750	881	881	914	982	1072	1072	776
1947	273	100	D/M	12/ 8	4/23	12/ 8	12/ 8	4/10	4/10	4/ 9	4/ 5	4/ 5	4/ 5	4/10	4/ 5	4/ 2	4/ 2	
			.1MM	326	478	664	679	761	856	940	1064	1128	1257	1352	1365	1450	1606	1975
1948	274	100	D/M	3/16	3/16	3/16	3/16	3/16	3/16	3/16	3/16	3/16	3/16	3/16	3/16	3/16	3/16	
			.1MM	333	471	471	598	693	917	1016	1134	1223	1338	1338	1548	1719	1719	1158
1949	273	100	D/M	12/29	3/22	3/26	3/26	3/25	3/22	3/22	3/22	3/22	3/22	3/22	3/22	3/10	3/ 5	
			.1MM	181	283	378	485	572	682	782	889	968	1036	1078	1078	1078	1078	885
1950	273	100	D/M	4/ 3	4/ 3	4/ 3	4/ 2	4/ 1	4/ 1	4/ 1	3/28	3/27	3/27	3/22	3/23	3/23	3/21	
			.1MM	295	475	560	592	646	646	660	764	871	956	1011	1080	1165	1236	1240
1951	260	95	D/M	1/ 3	3/29	3/29	3/29	3/28	3/28	3/28	3/28	3/27	3/24	3/19	3/14	3/11	3/ 4	
			.1MM	312	485	589	734	813	884	884	884	884	916	955	955	955	978	1065
1952	274	100	D/M	4/ 5	4/ 4	4/ 3	4/ 2	4/ 1	4/ 3	4/ 2	4/ 1	4/ 1	3/31	3/26	3/21	3/18	3/11	
			.1MM	311	444	569	704	813	923	1058	1167	1242	1290	1298	1332	1396	1396	1453
1953	273	100	D/M	12/ 5	12/ 5	12/ 3	12/ 3	12/ 3	1/10	1/10	1/10	1/10	1/10	2/ 7	2/ 7	12/24	1/10	
			.1MM	232	237	240	245	245	271	271	271	271	271	271	271	279	279	227
1954	271	99	D/M	4/ 6	4/ 6	4/ 6	4/ 6	4/ 6	4/ 5	4/ 5	4/ 5	4/ 2	4/ 2	4/ 2	4/ 2	4/ 2	4/ 2	
			.1MM	325	569	694	738	848	862	862	862	896	896	896	896	896	896	951
1955	273	100	D/M	4/10	4/10	4/10	4/ 9	4/ 9	4/ 6	4/ 6	4/ 5	4/ 4	4/ 3	3/30	3/29	3/21	3/15	
			.1MM	210	385	520	635	680	725	860	995	1104	1183	1287	1386	1491	1555	1618
1956	274	100	D/M	4/ 5	4/ 5	4/ 5	4/ 4	4/ 4	4/ 4	4/ 3	4/ 2	4/ 1	3/31	3/31	3/23	3/23	3/12	
			.1MM	206	366	505	594	678	757	775	809	877	921	921	921	921	921	885
1957	273	100	D/M	1/22	1/21	1/21	1/21	1/21	1/21	3/ 9	3/ 8	3/ 8	3/ 8	3/ 8	2/24	2/24	2/18	
			.1MM	360	460	460	460	460	460	505	549	549	549	549	549	549	549	569
1958	273	100	D/M	12/ 7	12/ 6	3/22	3/21	3/22	3/21	3/21	3/20	3/19	3/18	3/13	3/12	3/ 3	2/27	
			.1MM	183	230	310	384	454	528	600	634	688	756	795	843	872	911	953
1959	273	100	D/M	4/ 8	4/14	4/ 8	4/ 8	4/ 8	4/ 6	4/ 8	4/ 8	4/ 7	4/ 6	4/ 1	3/30	3/25	3/19	
			.1MM	170	300	394	519	584	698	803	968	1032	1147	1252	1339	1451	1576	1924
1960	274	100	D/M	4/17	4/17	4/16	4/15	4/14	4/13	4/12	4/12	4/10	4/ 9	4/ 4	3/30	3/28	3/20	

			.1MM	256	486	706	935	1108	1240	1347	1347	1419	1481	1509	1517	1609	1714	1883
1961	273	100	D/M	2/25	2/24	2/23	2/22	2/23	2/22	2/22	2/18	2/23	2/22	2/18	2/13	2/13	2/18	
			.1MM	265	308	466	514	549	597	621	677	726	774	812	812	828	937	666
1962	273	100	D/M	3/29	3/28	3/27	3/26	3/25	3/24	3/24	3/22	3/21	3/21	3/15	3/12	3/ 6	2/28	
			.1MM	180	300	389	518	632	701	729	820	906	934	934	934	974	1033	1159
1963	273	100	D/M	3/30	3/26	3/25	3/25	3/26	3/25	3/25	3/24	3/23	3/21	3/17	3/13	3/13	3/ 5	
			.1MM	185	263	375	409	529	641	695	714	722	742	796	796	796	796	1306
1964	274	100	D/M	1/ 9	1/24	3/ 3	3/ 2	1/21	1/20	1/19	1/19	1/19	1/19	1/19	1/19	1/ 3	1/ 9	
			.1MM	130	240	345	389	422	533	536	536	536	536	536	536	581	584	428
1965	273	100	D/M	12/24	12/23	3/ 3	3/ 3	3/ 3	3/ 3	3/ 3	3/ 3	3/ 2	3/ 2	2/25	2/25	2/25	2/ 7	
			.1MM	185	264	304	408	493	532	560	578	596	596	596	614	642	660	638
1966	273	100	D/M	12/24	2/28	2/28	2/27	2/26	2/26	2/26	2/26	2/26	2/26	12/16	2/11	2/ 9	2/ 9	
			.1MM	232	324	413	416	454	454	454	454	454	454	454	454	454	454	672
1967	273	100	D/M	4/ 2	4/ 1	3/31	3/30	3/29	3/28	3/27	3/26	3/25	3/24	3/22	3/14	3/10	3/10	
			.1MM	254	485	584	618	703	858	1046	1085	1144	1152	1176	1200	1200	1200	1271
1968	274	100	D/M	3/17	3/17	3/20	3/17	3/17	3/17	3/16	3/16	3/16	3/16	3/ 9	3/ 9	3/ 1	3/ 1	
			.1MM	222	327	473	597	748	895	908	908	908	908	908	962	1087	1106	943
1969	273	100	D/M	1/24	1/29	3/22	3/21	3/20	3/19	3/18	3/18	3/16	3/15	3/13	3/13	3/ 2	2/23	
			.1MM	235	275	332	427	509	558	592	592	596	655	689	697	697	697	638
1970	273	100	D/M	12/10	12/10	12/ 9	12/ 8	4/ 9	4/ 8	4/ 7	4/ 6	4/ 6	4/ 4	4/ 1	3/25	3/21	3/18	
			.1MM	284	362	421	434	496	625	674	682	682	696	735	779	813	813	1385
1971	273	100	D/M	4/13	4/12	4/11	4/10	4/12	4/12	4/11	4/10	4/ 9	4/ 9	4/ 3	3/29	3/29	3/20	
			.1MM	167	328	402	456	550	644	718	772	795	795	813	813	813	813	3263
1972	274	100	D/M	12/10	12/ 9	12/ 9	4/14	4/14	4/14	4/14	4/13	4/12	4/11	4/10	4/ 1	3/30	3/22	
			.1MM	231	385	489	571	680	821	1017	1106	1190	1254	1298	1298	1298	1298	1811
1973	273	100	D/M	2/ 2	3/11	3/11	3/11	3/ 8	3/ 7	3/ 7	3/ 7	3/ 7	3/ 3	3/ 3	3/ 3	2/20	2/20	
			.1MM	188	352	431	507	653	788	867	943	1071	1178	1257	1333	1461	1461	967
1974	273	100	D/M	3/ 4	3/ 4	3/ 4	3/ 4	3/ 3	3/ 3	3/ 1	2/28	3/30	3/29	2/22	2/20	2/20	3/ 4	
			.1MM	470	575	694	879	917	917	946	1021	1036	1044	1044	1044	1044	1151	972
1975	273	100	D/M	3/19	3/18	3/18	3/17	3/16	3/16	3/18	3/18	3/17	3/16	3/16	3/12	2/23	3/18	
			.1MM	371	452	521	549	593	593	671	715	743	787	787	787	826	854	827
1976	274	100	D/M	4/ 1	4/ 1	4/ 1	4/ 1	3/31	3/28	3/26	3/26	3/25	3/25	3/21	3/20	3/13	3/ 5	
			.1MM	407	557	655	770	859	980	1109	1259	1409	1507	1622	1622	1688	1803	1746
1977	273	100	D/M	3/13	3/13	3/12	3/10	3/10	3/ 9	3/ 9	3/ 8	3/ 7	3/ 6	3/ 3	2/24	2/24	2/24	
			.1MM	295	466	614	738	909	1008	1079	1113	1171	1235	1303	1374	1392	1392	1206
1978	273	100	D/M	1/25	1/25	4/10	4/10	4/10	4/10	4/ 9	4/ 8	4/ 7	4/ 4	3/31	3/27	3/21	3/19	
			.1MM	358	454	487	635	738	823	826	843	908	1013	1116	1201	1201	1291	1570
1979	273	100	D/M	12/31	12/31	3/20	3/19	3/ 3	3/ 3	3/ 3	3/ 3	3/ 2	3/ 2	2/28	3/ 3	2/27	2/22	
			.1MM	224	310	381	425	482	580	644	724	727	727	754	836	839	839	1255
1980	274	100	D/M	3/22	3/21	3/21	3/21	3/21	3/19	3/18	3/18	3/17	3/18	3/17	3/11	3/11	2/24	
			.1MM	507	653	760	872	897	919	958	983	985	999	1001	1001	1001	1001	462
1981	273	100	D/M	2/19	2/19	2/19	2/18	2/17	2/16	2/16	2/16	2/16	2/11	2/ 8	2/ 2	2/ 1	1/25	
			.1MM	203	377	520	641	757	796	796	796	796	813	956	1022	1022	1079	921
1982	273	100	D/M	3/31	3/31	3/30	3/31	3/30	3/29	3/29	3/25	3/24	3/25	3/18	3/13	3/11	3/11	
			.1MM	294	401	489	528	616	642	642	689	710	816	837	863	916	984	1033
1983	273	100	D/M	1/10	2/ 2	2/ 2	1/31	1/31	1/31	1/31	1/31	1/31	1/25	1/24	12/23	1/10	1/10	
			.1MM	282	343	343	402	402	402	402	402	402	459	493	493	493	493	131
1984	274	100	D/M	2/14	2/13	2/13	12/12	12/12	2/14	2/13	2/13	2/12	2/11	2/11	2/ 3	2/ 3	1/25	
			.1MM	298	405	489	564	602	682	789	858	899	908	910	910	912	912	636
1985	273	100	D/M	2/23	3/11	3/11	3/11	3/10	3/ 8	3/ 8	3/ 8	3/ 8	3/ 8	3/ 1	2/23	2/21	2/23	
			.1MM	291	385	479	549	583	657	727	727	727	727	727	727	797	864	1015
1986	273	100	D/M	1/20	1/19	1/18	1/18	1/18	1/18	1/18	1/18	1/12	3/10	3/ 9	3/ 2	3/ 2	2/18	
			.1MM	215	394	492	492	536	536	536	536	548	674	681	681	681	681	461
1987	273	100	D/M	12/24	12/24	12/23	12/23	12/23	12/23	12/19	12/19	12/18	12/18	3/ 7	3/ 6	2/28	2/28	
			.1MM	170	307	389	425	425	425	472	508	522	522	522	537	537	557	719

1988	274	100	D/M	3/26	3/25	3/24	3/24	3/24	3/24	3/24	3/24	3/24	3/17	3/14	3/ 8	3/ 8	3/ 1	
			.1MM	262	393	411	411	411	411	411	411	411	476	494	495	503	503	455
1989	273	100	D/M	3/28	3/27	3/26	3/25	3/24	3/24	3/24	3/24	3/24	3/24	3/14	3/14	3/ 4	3/ 4	
			.1MM	224	412	535	653	693	693	693	693	693	693	693	693	693	867	594
1990	273	100	D/M	1/ 4	3/11	3/10	3/10	1/24	1/24	1/24	1/24	1/24	1/17	1/17	1/25	1/17	1/ 3	
			.1MM	172	292	342	355	411	417	449	485	520	544	587	644	650	682	693
1991	273	100	D/M	12/29	12/21	12/21	12/21	2/ 3	12/18	12/17	12/17	12/21	12/21	12/17	12/17	2/19	2/ 3	
			.1MM	203	335	457	457	490	554	606	606	703	761	761	800	858	910	641
1992	274	100	D/M	3/27	3/27	3/27	3/27	3/27	3/27	3/27	3/27	3/27	3/27	3/27	3/26	3/18	3/11	
			.1MM	468	628	655	692	771	877	948	987	1019	1054	1132	1207	1347	1453	1098
1993	273	100	D/M	1/ 4	1/ 3	3/28	3/27	3/26	3/26	3/25	3/24	3/24	3/26	3/24	3/21	3/16	3/ 9	
			.1MM	379	464	507	655	765	858	937	1006	1007	1055	1148	1258	1341	1420	1303
1994	273	100	D/M	2/20	3/22	3/22	3/21	3/21	3/21	4/ 3	4/ 2	4/ 1	3/31	3/22	3/21	3/21	3/13	
			.1MM	174	272	386	462	495	520	571	678	727	802	833	885	960	984	1272
1995	273	100	D/M	1/15	1/15	1/14	1/13	1/12	1/12	1/12	1/12	1/12	1/12	1/12	1/12	1/12	12/18	
			.1MM	536	654	728	818	878	920	937	937	937	937	937	946	946	946	335
1996	274	100	D/M	1/19	1/18	1/17	2/20	2/20	2/20	2/20	2/20	2/20	2/20	2/20	2/ 8	2/20	2/20	
			.1MM	304	449	451	637	788	853	853	875	894	894	894	894	894	894	1296
1997	273	100	D/M	2/21	2/20	2/19	4/ 3	4/ 2	4/ 1	3/31	3/30	3/29	3/28	3/25	3/25	3/14	3/11	
			.1MM	399	535	718	785	897	961	1002	1063	1253	1352	1496	1556	1590	1601	1306

	1 DAY	2 DAY	3 DAY	4 DAY	5 DAY	6 DAY	7 DAY	8 DAY	9 DAY	10 DAY	15 DAY	20 DAY	25 DAY	30 DAY
MEAN EXTREME(MM)	28.3	42.0	52.3	61.7	70.0	77.6	84.8	91.0	96.5	102.7	126.7	144.3	157.1	166.9
STD. DEV.(MM)	9.2	11.2	13.8	17.4	20.5	23.4	26.6	29.2	32.3	35.4	45.8	53.2	58.6	61.4
YEARS ANALYSED	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0

** NOTE ** MEAN AND STANDARD DEVIATION HAVE BEEN ADJUSTED TO ACCOUNT FOR ONE OBSERVATION PER DAY.

NOTE ** VALUE IN FLAG INDICATES YEAR NOT INCLUDED IN ANALYSIS BASED ON % DAYS OPERATIONAL (<90.0%)

ATMOSPHERIC ENVIRONMENT SERVICE
RAIN+SNOWMELT INTENSITY, DURATION, FREQUENCY VALUES
PREPARED BY THE HYDROMETEOROLOGY DIVISION, CANADIAN CLIMATE CENTRE

STATION : Ottawa CDA, Ontario STATION NUMBER 6105976

LATITUDE: 4523 LONGITUDE: 7543 ELEVATION(M): 79

SNOWMELT MODEL 1

CRITICAL PERIOD : 1ST OF MONTH 10 TO THE END OF MONTH 5 NOTE : MODIFIED GUMBEL 12/82

RETURN PERIOD VALUES (MM) WITH 50% CONFIDENCE LIMITS

RETURN PERIOD YEARS	1 DAY	2 DAY	3 DAY	4 DAY	5 DAY
2	26.77+/- .55	40.19+/- .67	50.01+/- .83	58.86+/- 1.05	66.63+/- 1.23
5	34.86+/- .93	50.05+/- 1.13	62.18+/- 1.39	74.25+/- 1.76	84.76+/- 2.08
10	40.22+/- 1.25	56.59+/- 1.53	70.25+/- 1.88	84.47+/- 2.38	96.79+/- 2.81
25	46.99+/- 1.69	64.85+/- 2.06	80.43+/- 2.54	97.36+/- 3.21	111.96+/- 3.78
50	52.01+/- 2.02	70.97+/- 2.46	87.97+/- 3.04	106.91+/- 3.84	123.21+/- 4.53
100	57.00+/- 2.35	77.05+/- 2.87	95.48+/- 3.54	116.41+/- 4.48	134.41+/- 5.28

RETURN PERIOD YEARS	6 DAY	7 DAY	8 DAY	9 DAY	10 DAY
2	73.80+/- 1.41	80.42+/- 1.60	86.17+/- 1.75	91.22+/- 1.94	96.85+/- 2.13
5	94.45+/- 2.37	103.92+/- 2.69	111.95+/- 2.95	119.71+/- 3.26	128.09+/- 3.58
10	108.16+/- 3.20	119.52+/- 3.64	129.05+/- 3.99	138.62+/- 4.41	148.83+/- 4.84
25	125.44+/- 4.31	139.19+/- 4.91	150.63+/- 5.38	162.46+/- 5.95	174.97+/- 6.52
50	138.25+/- 5.16	153.77+/- 5.87	166.63+/- 6.44	180.14+/- 7.11	194.36+/- 7.80
100	151.00+/- 6.01	168.28+/- 6.84	182.54+/- 7.50	197.72+/- 8.29	213.64+/- 9.09

RETURN PERIOD YEARS	15 DAY	20 DAY	25 DAY	30 DAY
2	119.17+/- 2.75	135.56+/- 3.19	147.48+/- 3.52	156.86+/- 3.69
5	159.59+/- 4.63	182.50+/- 5.38	199.19+/- 5.93	211.11+/- 6.22
10	186.41+/- 6.26	213.64+/- 7.27	233.52+/- 8.01	247.12+/- 8.40
25	220.24+/- 8.44	252.93+/- 9.80	276.80+/-10.79	292.52+/-11.32
50	245.32+/-10.09	282.06+/-11.72	308.89+/-12.91	326.19+/-13.55
100	270.27+/-11.76	311.03+/-13.66	340.81+/-15.05	359.67+/-15.78

** WARNING ** : THE 1-DAY 100-YEAR RETURN PERIOD EVENT IS EXCEEDED BY THE 1-DAY EVENT IN 1934
** WARNING ** : THE 3-DAY 100-YEAR RETURN PERIOD EVENT IS EXCEEDED BY THE 3-DAY EVENT IN 1923
** WARNING ** : THE 4-DAY 100-YEAR RETURN PERIOD EVENT IS EXCEEDED BY THE 4-DAY EVENT IN 1923

ATMOSPHERIC ENVIRONMENT SERVICE
RAIN+SNOWMELT INTENSITY, DURATION, FREQUENCY VALUES
PREPARED BY THE HYDROMETEOROLOGY DIVISION, CANADIAN CLIMATE CENTRE

STATION : Ottawa CDA, Ontario STATION NUMBER 6105976

LATITUDE: 4523 LONGITUDE: 7543 ELEVATION(M): 79

SNOWMELT MODEL 2

CRITICAL PERIOD : 1ST OF MONTH 10 TO THE END OF MONTH 5 NOTE : MODIFIED GUMBEL 12/82

YR	TOTAL DAYS	% VALID	FLAG	START MAX	1 DAY	2 DAY	3 DAY	4 DAY	5 DAY	6 DAY	7 DAY	8 DAY	9 DAY	10 DAY	15 DAY	20 DAY	25 DAY	30 DAY	MAX SNPK
1890	242	88	**	D/M	4/ 4	4/ 3	4/ 3	4/ 4	4/ 3	4/ 3	4/ 3	4/ 3	4/ 3	4/ 3	3/26	3/21	3/14	3/11	
				.1MM	348	463	473	607	722	722	722	722	722	722	722	722	832	832	
1891	273	100		D/M	3/ 9	4/10	4/ 9	3/21	3/29	3/29	3/28	3/28	3/21	3/21	3/21	3/23	3/21	3/13	
				.1MM	329	500	653	722	778	895	944	944	1008	1086	1214	1373	1549	1666	1870
1892	274	100		D/M	4/ 6	4/ 5	4/ 4	4/ 4	4/ 4	4/ 3	4/ 2	4/ 2	4/ 2	4/ 2	3/29	3/24	3/24	3/10	
				.1MM	388	763	1048	1287	1536	1770	1848	1848	1848	1848	1926	1926	1926	1926	1728
1893	273	100		D/M	4/13	4/12	4/11	4/10	4/ 9	4/ 8	4/ 8	4/ 8	4/ 8	4/ 8	3/30	3/30	3/24	3/21	
				.1MM	360	648	856	963	984	1305	1305	1305	1305	1431	1446	1446	1554	1661	1808
1894	273	100		D/M	4/ 4	3/ 5	3/ 5	3/ 4	3/ 3	3/ 2	3/ 2	3/ 5	3/ 4	3/ 2	3/ 5	3/ 2	3/ 2	3/ 6	
				.1MM	284	473	667	688	709	824	824	852	873	951	1009	1009	1009	1089	2128
1895	273	100		D/M	4/14	4/ 8	4/ 7	4/14	4/13	4/12	4/12	4/ 8	4/ 8	4/ 8	4/ 5	4/ 2	3/24	3/24	
				.1MM	353	632	797	1041	1231	1394	1394	1549	1768	2026	2191	2240	2308	2308	1793
1896	274	100		D/M	4/16	4/15	4/14	4/13	4/12	4/11	4/10	4/ 9	4/ 8	4/ 8	4/ 3	3/31	3/27	3/27	
				.1MM	421	743	1112	1312	1483	1607	1667	1735	1766	1766	1766	1766	1766	1787	1889
1897	273	100		D/M	3/10	4/ 4	4/ 2	4/ 1	3/31	3/30	3/30	3/29	3/28	3/27	3/21	3/19	3/19	3/ 9	
				.1MM	275	336	436	551	666	792	885	945	957	996	996	998	1043	1193	1133
1898	273	100		D/M	12/11	3/12	3/11	3/10	3/ 9	3/ 8	3/11	3/10	3/11	3/11	3/ 9	3/ 7	3/ 7	3/ 9	
				.1MM	382	633	872	998	1086	1090	1214	1340	1458	1626	1752	1840	1844	1856	1831
1899	242	88	**	D/M	4/18	4/18	4/17	4/16	4/15	4/14	4/13	4/12	4/11	4/11	4/ 7	4/ 7	3/29	3/23	
				.1MM	295	580	743	821	992	1185	1348	1512	1534	1550	1581	1797	1865	1881	
1900	273	100		D/M	2/13	4/ 6	4/11	4/11	4/11	4/ 3	4/ 2	4/ 6	4/ 5	4/ 5	4/ 1	3/29	3/29	3/20	
				.1MM	347	419	555	678	748	848	945	1081	1215	1338	1408	1526	1623	1693	1637
1901	273	100		D/M	11/21	4/13	4/12	4/11	4/10	4/ 9	4/ 8	4/ 7	4/ 6	4/ 4	4/ 1	3/26	3/21	3/21	
				.1MM	368	509	717	909	1119	1321	1538	1645	1776	2024	2248	2431	2518	2567	2315
1902	273	100		D/M	12/14	12/14	3/21	3/21	3/21	3/21	3/21	3/21	3/20	3/20	3/12	3/11	3/ 1	2/28	
				.1MM	330	622	685	782	906	1069	1248	1281	1303	1303	1414	1527	1560	1640	1969
1903	273	100		D/M	3/19	3/19	3/19	3/19	3/19	3/19	3/18	3/17	3/17	3/17	3/10	3/ 5	2/28	2/28	
				.1MM	319	631	866	992	1255	1425	1524	1647	1669	1669	1696	1756	1853	2023	2103
1904	274	100		D/M	4/10	4/10	4/ 9	4/ 8	4/ 8	4/ 7	4/ 7	4/ 6	4/ 6	4/ 2	3/31	4/ 6	4/ 1	3/27	
				.1MM	451	796	959	1146	1290	1416	1523	1611	1611	1706	1850	1957	2017	2105	2687
1905	273	100		D/M	3/29	3/29	3/28	3/28	3/27	3/25	3/25	3/29	3/29	3/28	3/27	3/24	3/18	3/18	
				.1MM	256	475	619	734	839	913	1028	1172	1330	1474	1579	1649	1773	1878	2023
1906	273	100		D/M	3/27	3/27	3/27	3/27	3/27	3/27	3/27	1/16	1/16	1/16	1/16	1/16	12/30	12/27	
				.1MM	369	405	405	405	405	405	405	410	410	410	410	410	410	410	418
1907	273	100		D/M	3/28	3/28	3/28	3/27	3/26	3/24	3/23	3/23	3/22	3/22	3/22	3/22	3/22	3/13	
				.1MM	249	448	621	726	833	903	1084	1257	1364	1395	1395	1395	1455	1501	1212
1908	274	100		D/M	4/26	4/25	4/24	4/23	4/23	4/22	4/20	4/19	4/19	4/18	4/12	4/ 7	4/ 3	3/29	

			.1MM	353	666	951	1207	1314	1353	1489	1642	1749	1809	1953	2060	2128	2196	2525
1909	273	100	D/M	4/14	4/13	4/13	4/12	4/12	4/12	4/12	4/ 7	4/ 6	4/ 6	4/ 3	3/28	3/25	4/ 3	
			.1MM	500	908	1042	1176	1274	1274	1274	1439	1737	1871	1969	2057	2154	2212	2012
1910	273	100	D/M	1/22	1/21	3/20	3/20	3/20	3/19	3/19	3/19	3/19	3/19	3/13	3/ 5	2/28	2/27	
			.1MM	300	402	485	563	661	681	681	681	681	681	681	728	728	728	1025
1911	273	100	D/M	4/14	4/13	4/13	4/12	4/12	4/13	4/14	4/13	4/12	4/11	4/ 6	4/ 5	3/27	3/26	
			.1MM	463	671	875	963	1004	1083	1324	1532	1620	1632	1737	1834	1836	1961	1876
1912	274	100	D/M	4/16	4/ 7	4/ 6	4/ 6	4/12	4/12	4/11	4/ 6	4/ 8	4/ 7	4/ 6	3/29	3/29	3/19	
			.1MM	493	661	845	845	909	1029	1061	1145	1346	1602	1786	1906	1906	1906	1775
1913	273	100	D/M	3/24	3/24	3/19	3/21	3/21	3/19	3/19	3/19	3/19	3/19	3/19	3/14	3/13	3/13	
			.1MM	389	581	728	766	958	1129	1321	1364	1364	1364	1561	1753	1803	1842	1696
1914	273	100	D/M	4/17	4/16	4/15	4/14	4/14	4/12	4/11	3/26	3/26	4/ 8	3/26	3/29	3/26	3/26	
			.1MM	276	481	588	656	683	707	804	917	917	918	945	945	945	1022	1596
1915	273	100	D/M	11/16	11/15	4/ 4	4/ 3	4/ 3	4/ 1	4/ 1	4/ 1	4/ 1	4/ 1	3/24	3/21	3/21	3/13	
			.1MM	418	428	481	578	671	763	856	856	856	856	856	856	912	992	1209
1916	274	100	D/M	4/17	4/13	4/12	4/11	4/13	4/12	4/12	4/11	4/10	4/11	4/11	3/29	3/27	3/27	
			.1MM	285	516	703	808	970	1157	1291	1396	1530	1627	1761	1837	1877	2013	3087
1917	273	100	D/M	4/ 1	4/18	4/17	4/16	4/15	4/14	4/13	4/12	4/11	3/26	3/24	3/31	3/26	3/23	
			.1MM	380	710	920	1017	1132	1219	1250	1271	1292	1399	1514	1606	1699	1747	2531
1918	273	100	D/M	4/ 2	4/ 1	4/ 6	3/30	3/29	3/29	4/ 2	4/ 1	3/31	3/30	3/30	3/29	3/20	3/17	
			.1MM	323	565	799	928	1006	1006	1203	1445	1645	1808	1886	1894	2015	2215	2623
1919	273	100	D/M	4/ 7	4/ 9	4/ 7	4/ 7	4/ 6	4/ 5	4/ 5	4/ 3	4/ 3	4/ 3	3/27	3/23	3/17	3/16	
			.1MM	218	373	505	715	825	949	949	1019	1019	1019	1104	1114	1114	1114	1576
1920	274	100	D/M	3/27	3/26	3/25	3/24	3/23	3/23	3/22	3/21	3/21	3/18	3/13	3/12	3/ 6	3/ 6	
			.1MM	338	643	956	1222	1356	1392	1396	1418	1418	1484	1559	1595	1595	1595	1518
1921	273	100	D/M	3/20	3/20	3/19	3/ 9	3/ 8	3/16	3/15	3/ 9	3/ 8	3/12	3/ 8	3/ 2	2/28	2/23	
			.1MM	294	468	488	499	559	683	698	750	810	886	964	1064	1238	1298	761
1922	273	100	D/M	12/18	4/ 6	4/ 5	4/ 4	4/ 3	4/ 3	4/ 2	4/ 1	4/ 1	4/ 1	3/26	3/20	3/14	3/14	
			.1MM	353	543	706	792	870	946	1016	1018	1018	1018	1079	1155	1225	1301	1161
1923	273	100	D/M	4/21	4/21	4/20	4/19	4/18	4/17	4/16	4/16	4/16	4/16	4/ 8	4/ 3	4/ 3	3/24	
			.1MM	586	1049	1447	1515	1519	1597	1665	1665	1665	1665	1665	1775	1775	1775	2211
1924	274	100	D/M	4/ 8	4/ 7	4/ 6	4/ 5	4/ 4	4/ 5	4/ 5	4/ 4	4/ 4	4/ 4	3/28	3/23	3/22	3/22	
			.1MM	349	576	749	1010	1107	1194	1381	1478	1519	1597	1628	1632	1632	1639	1935
1925	273	100	D/M	2/11	2/10	3/25	3/24	3/24	3/22	3/21	3/21	3/19	3/18	3/18	3/ 8	3/ 8	2/26	
			.1MM	339	511	723	820	820	888	971	971	1230	1317	1317	1317	1317	1317	1025
1926	273	100	D/M	4/22	4/22	4/22	4/22	4/21	4/21	4/22	4/21	4/21	4/22	4/21	4/13	4/ 8	4/ 2	
			.1MM	332	627	856	1151	1361	1392	1628	1838	2004	2219	2429	2429	2429	2429	2342
1927	273	100	D/M	11/16	3/13	4/ 4	3/12	3/12	3/13	3/12	3/12	3/12	3/12	3/ 6	3/12	3/13	3/ 8	
			.1MM	301	420	592	696	774	914	1048	1126	1157	1157	1206	1270	1348	1389	2144
1928	274	100	D/M	11/22	4/ 6	4/ 5	4/ 4	4/ 4	4/ 4	4/ 4	4/ 4	4/ 4	4/ 4	4/ 4	3/25	3/20	3/15	3/13	
			.1MM	323	560	770	877	961	961	961	961	961	961	994	1114	1267	1351	1282
1929	273	100	D/M	1/ 6	3/15	3/13	3/13	3/13	3/13	3/13	3/13	3/13	3/13	3/13	3/13	3/ 4	2/27	
			.1MM	274	345	456	560	560	560	638	704	780	868	913	943	1041	1158	884
1930	273	100	D/M	1/ 8	1/ 7	1/ 7	1/ 7	2/20	2/19	1/ 2	1/ 2	1/ 2	1/ 2	1/ 2	2/19	2/19	2/13	
			.1MM	262	468	468	468	533	630	656	656	656	656	656	660	689	689	1022
1931	273	100	D/M	3/29	3/28	3/28	3/26	3/26	3/24	3/24	3/24	3/23	3/22	3/17	3/16	3/10	3/ 5	
			.1MM	259	403	520	654	771	887	1004	1111	1208	1247	1277	1358	1388	1436	1411
1932	274	100	D/M	2/12	4/ 9	4/ 9	4/ 9	4/ 9	4/ 8	4/ 7	4/ 6	4/ 6	4/ 7	3/31	3/27	3/27	3/27	
			.1MM	330	375	556	732	873	933	1011	1019	1019	1032	1053	1084	1225	1227	802
1933	273	100	D/M	12/25	4/ 1	4/ 1	4/ 1	4/ 1	4/ 1	3/31	3/31	3/31	3/31	3/27	3/20	3/20	3/20	
			.1MM	207	334	497	594	720	815	886	886	886	886	937	937	937	937	642
1934	273	100	D/M	12/31	4/10	4/10	4/16	4/15	4/14	4/10	4/11	4/11	4/10	4/ 6	4/ 1	3/26	3/26	
			.1MM	732	818	925	1066	1298	1427	1545	1790	2122	2391	2498	2568	2636	2666	2136
1935	273	100	D/M	4/10	4/10	4/ 9	4/ 9	4/ 8	4/ 8	4/ 8	4/ 5	4/ 5	4/ 3	3/29	3/24	3/19	3/16	
			.1MM	274	522	769	944	1078	1078	1078	1109	1109	1140	1218	1218	1240	1244	1378

1936	274	100	D/M	3/12	3/12	3/26	3/25	3/25	3/25	3/22	3/22	3/22	3/20	3/16	3/11	3/11	3/12	
			.1MM	320	437	627	821	974	1113	1120	1273	1412	1501	1678	1831	1970	2019	1444
1937	273	100	D/M	4/ 5	4/ 5	4/ 5	4/ 5	4/ 4	4/ 4	4/ 2	4/ 2	4/ 2	4/ 2	4/ 2	3/20	3/20	12/26	
			.1MM	329	539	692	807	819	823	831	835	835	835	835	835	835	835	610
1938	273	100	D/M	3/23	3/23	3/21	3/23	3/20	3/21	3/20	3/19	3/18	3/17	3/17	3/13	3/13	3/ 5	
			.1MM	308	425	576	740	851	1008	1166	1247	1288	1422	1519	1615	1696	1775	1388
1939	273	100	D/M	4/26	4/26	4/25	4/23	4/23	4/22	4/21	4/20	4/19	4/18	4/13	4/11	4/11	3/31	
			.1MM	332	573	773	885	1126	1307	1436	1580	1795	1875	1926	1946	1975	2007	1782
1940	274	100	D/M	4/19	4/18	4/18	4/18	4/18	4/18	4/18	4/17	4/16	4/16	4/10	4/ 5	3/31	3/31	
			.1MM	286	532	732	866	1010	1146	1327	1461	1550	1581	1581	1581	1691	1722	1734
1941	273	100	D/M	12/29	12/28	4/ 9	4/ 8	4/ 7	4/ 6	4/ 5	4/ 4	4/ 3	4/ 2	4/ 2	4/ 2	4/ 2	3/16	
			.1MM	432	593	796	988	1132	1361	1468	1556	1634	1646	1646	1646	1646	1646	1702
1942	273	100	D/M	12/24	12/23	12/23	12/23	3/26	3/25	3/25	3/24	3/21	3/21	3/16	3/11	3/ 8	3/ 2	
			.1MM	337	502	502	502	502	570	614	618	663	768	812	894	945	1050	996
1943	272	99	D/M	4/25	4/24	4/23	4/23	4/22	4/22	4/22	4/21	4/20	4/19	4/17	4/ 9	4/ 5	3/31	
			.1MM	431	819	1141	1380	1617	1825	1978	2122	2205	2312	2399	2420	2420	2420	2405
1944	274	100	D/M	4/10	4/10	4/10	4/10	4/ 9	4/ 9	4/ 7	4/10	4/10	4/10	4/ 7	3/31	3/26	3/25	
			.1MM	221	413	454	503	505	505	507	579	779	911	913	913	915	915	836
1945	273	100	D/M	3/18	3/18	3/18	3/18	3/17	3/16	3/18	3/18	3/17	3/16	3/14	3/14	3/ 1	2/26	
			.1MM	257	465	658	857	1026	1138	1358	1552	1721	1833	2014	2092	2092	2092	1960
1946	273	100	D/M	3/13	3/13	3/13	3/13	3/13	3/ 9	3/ 8	3/ 7	3/ 6	3/ 6	3/ 2	3/ 2	3/ 2	2/13	
			.1MM	292	532	532	532	532	576	727	853	980	980	980	1038	1102	1102	803
1947	273	100	D/M	4/11	4/11	4/10	4/ 9	4/10	4/10	4/ 9	4/ 5	4/ 6	4/ 5	4/10	4/ 5	4/ 5	4/ 2	
			.1MM	404	697	831	918	1051	1158	1245	1348	1445	1568	1675	1688	1747	2006	2272
1948	274	100	D/M	3/16	3/16	3/21	3/20	3/21	3/16	3/16	3/16	3/16	3/16	3/16	3/16	3/16	3/16	
			.1MM	325	510	552	659	793	1037	1152	1296	1393	1537	1537	1785	1943	1943	1231
1949	273	100	D/M	3/27	3/26	3/26	3/26	3/26	3/22	3/22	3/22	3/26	3/26	3/22	3/22	3/22	3/22	
			.1MM	203	347	464	566	644	720	837	939	1073	1147	1211	1291	1446	1520	1329
1950	273	100	D/M	4/ 3	4/ 3	4/ 3	12/18	12/18	12/18	12/18	3/28	3/27	3/27	3/23	3/28	3/23	3/23	
			.1MM	333	558	646	779	779	779	779	861	954	1042	1078	1138	1226	1278	1311
1951	260	95	D/M	1/ 3	3/29	3/29	3/29	3/29	3/29	3/29	3/28	3/27	3/26	3/21	3/16	3/11	3/ 6	
			.1MM	346	560	684	825	927	1042	1199	1277	1277	1277	1277	1285	1300	1300	1171
1952	274	100	D/M	4/ 5	4/ 4	4/ 3	4/ 2	4/ 5	4/ 4	4/ 4	4/ 3	4/ 2	4/ 1	3/28	3/22	3/19	3/12	
			.1MM	340	503	658	788	970	1133	1294	1449	1579	1691	1712	1712	1712	1761	1633
1953	273	100	D/M	12/ 5	12/ 5	12/ 5	12/ 5	12/ 5	12/ 5	12/ 5	1/10	1/10	1/15	1/10	1/10	1/10	1/10	
			.1MM	210	241	243	245	245	245	245	298	298	346	346	346	346	420	229
1954	271	99	D/M	4/ 6	4/ 6	4/ 6	4/ 6	4/ 6	4/ 6	4/ 6	4/ 6	4/ 6	4/ 6	4/ 6	4/ 6	4/ 6	4/ 6	
			.1MM	340	665	828	840	1114	1315	1315	1315	1315	1315	1315	1315	1315	1315	1098
1955	273	100	D/M	4/10	4/10	4/ 9	4/ 9	4/ 9	4/ 6	4/ 5	4/ 5	4/ 4	4/ 3	3/29	3/29	3/21	3/15	
			.1MM	322	579	723	864	864	954	1135	1276	1410	1488	1612	1727	1853	1902	1913
1956	274	100	D/M	4/ 5	4/ 5	4/ 5	4/ 4	4/ 5	4/ 4	4/ 4	4/ 4	4/ 1	4/ 1	3/31	3/31	3/31	3/31	
			.1MM	286	515	705	802	973	1070	1086	1086	1128	1144	1156	1156	1156	1156	1118
1957	273	100	D/M	1/22	1/21	1/21	1/21	3/12	3/11	3/11	3/ 9	3/ 8	3/ 8	3/ 8	2/25	2/25	2/24	
			.1MM	416	533	533	533	550	568	568	617	629	629	633	633	682	694	680
1958	273	100	D/M	12/ 7	3/30	3/29	3/28	3/27	3/26	3/25	3/24	3/23	3/22	3/18	3/13	3/13	3/ 3	
			.1MM	218	318	406	521	645	723	774	900	1036	1143	1211	1244	1244	1300	1313
1959	273	100	D/M	4/ 8	4/14	4/ 8	4/ 8	4/ 8	4/10	4/ 8	4/ 8	4/ 7	4/ 6	4/ 1	3/30	3/30	3/20	
			.1MM	235	406	514	677	728	860	996	1221	1251	1395	1512	1602	1709	1864	2096
1960	274	100	D/M	4/17	4/16	4/15	4/15	4/14	4/13	4/12	4/12	4/10	4/ 9	4/ 4	3/30	3/28	3/20	
			.1MM	373	713	1016	1237	1455	1629	1731	1731	1776	1803	1803	1803	1903	2029	2156
1961	273	100	D/M	2/25	2/24	2/23	2/22	2/23	2/22	2/19	2/18	2/23	2/23	2/18	2/13	2/13	2/23	
			.1MM	241	284	420	441	442	463	472	563	605	643	664	664	664	748	708
1962	273	100	D/M	3/29	3/28	3/28	3/26	3/26	3/25	3/24	3/24	3/22	3/21	3/16	3/12	3/12	3/12	
			.1MM	266	415	562	683	830	972	1032	1032	1176	1252	1252	1252	1252	1310	1365
1963	273	100	D/M	3/30	3/26	3/25	3/27	3/26	3/25	3/25	3/25	3/25	3/21	3/17	3/17	3/17	3/ 5	

			.1MM	276	316	437	454	605	726	757	757	757	794	825	825	825	825	1454
1964	274	100	D/M	3/ 6	3/ 5	3/ 4	3/ 3	3/ 2	3/ 2	3/ 2	3/ 2	3/ 2	3/ 2	3/ 2	3/ 2	3/ 2	2/ 5	
			.1MM	249	371	515	649	661	661	661	661	661	661	661	661	661	661	555
1965	273	100	D/M	12/24	4/ 6	4/ 5	3/ 3	3/ 3	3/ 3	3/ 3	3/ 3	3/ 3	3/ 3	2/25	2/25	2/11	2/ 7	
			.1MM	221	297	412	481	569	573	573	573	573	573	633	637	637	637	702
1966	273	100	D/M	12/24	2/28	2/28	2/28	2/26	2/26	2/26	12/24	12/23	12/23	12/23	2/11	2/ 9	11/25	
			.1MM	220	320	417	417	419	419	419	455	501	501	501	501	501	501	676
1967	273	100	D/M	4/ 1	4/ 1	3/31	3/31	3/29	3/28	3/27	3/26	3/25	3/25	3/25	3/14	3/10	3/10	
			.1MM	361	683	798	798	886	1105	1289	1293	1334	1334	1334	1334	1334	1334	1549
1968	274	100	D/M	3/17	3/20	3/20	3/17	3/17	3/17	3/16	3/16	3/16	3/16	3/10	3/10	3/ 1	3/ 1	
			.1MM	229	385	554	674	847	1016	1029	1029	1029	1029	1029	1060	1215	1215	1003
1969	273	100	D/M	1/24	3/24	3/24	3/22	3/21	3/20	3/19	3/19	3/19	3/19	3/15	3/15	3/15	1/23	
			.1MM	243	353	353	440	547	606	628	628	628	628	669	669	669	669	836
1970	273	100	D/M	12/10	4/ 8	4/ 8	4/ 7	4/ 9	4/ 8	4/ 7	4/ 7	4/ 7	4/ 7	4/ 2	3/25	3/21	3/21	
			.1MM	284	418	459	481	642	813	835	835	835	835	839	854	854	854	1738
1971	273	100	D/M	4/13	4/12	4/11	4/10	4/12	4/12	4/11	4/10	4/10	4/10	4/ 3	3/29	3/29	3/29	
			.1MM	228	429	497	528	635	740	808	839	839	839	839	839	839	839	3353
1972	274	100	D/M	12/10	12/ 9	12/ 9	12/ 9	4/14	4/14	4/14	4/13	4/12	4/11	4/10	4/ 1	3/30	3/22	
			.1MM	265	405	529	644	754	914	1130	1218	1305	1354	1366	1366	1366	1366	2053
1973	273	100	D/M	3/17	3/16	3/15	3/14	3/13	3/12	3/11	3/10	3/ 9	3/ 8	3/ 3	3/ 3	3/ 3	2/20	
			.1MM	298	485	662	711	789	992	1178	1216	1241	1488	1653	1689	1727	1832	1208
1974	273	100	D/M	3/ 4	3/ 4	3/ 4	3/ 4	3/ 3	3/ 3	3/30	2/28	3/30	3/29	2/22	2/22	2/22	3/ 4	
			.1MM	461	587	740	1016	1018	1018	1059	1079	1092	1100	1100	1100	1100	1186	995
1975	273	100	D/M	3/19	4/17	4/16	4/15	4/14	4/14	4/14	4/14	4/14	4/14	4/ 5	3/30	3/25	3/19	
			.1MM	377	654	881	988	1095	1095	1095	1095	1095	1095	1095	1095	1095	1097	1096
1976	274	100	D/M	4/ 1	4/ 1	4/ 1	3/25	3/28	3/28	3/26	3/25	3/25	3/25	3/21	3/20	3/13	3/ 5	
			.1MM	450	636	746	867	961	1147	1342	1552	1738	1848	1931	1976	2086	2169	1803
1977	273	100	D/M	3/13	3/13	3/12	3/10	3/10	3/ 9	3/ 9	3/ 9	3/ 7	3/ 6	3/ 4	2/24	2/24	2/24	
			.1MM	342	550	750	953	1161	1276	1355	1355	1394	1443	1487	1527	1527	1527	1266
1978	273	100	D/M	1/25	1/25	4/11	4/10	4/10	4/10	4/10	4/10	4/ 7	4/ 6	3/31	3/27	3/21	3/19	
			.1MM	332	396	543	731	853	941	941	941	987	1033	1155	1243	1246	1368	1793
1979	273	100	D/M	3/22	3/21	3/21	3/20	3/19	3/19	3/19	3/ 3	3/ 3	3/14	3/ 9	3/ 4	3/ 3	2/22	
			.1MM	207	380	537	659	671	671	671	747	747	753	783	859	859	863	1425
1980	274	100	D/M	3/22	3/21	3/21	3/21	3/21	3/21	3/21	3/18	3/17	3/18	3/17	3/11	3/11	3/11	
			.1MM	528	707	838	977	1010	1010	1034	1050	1052	1074	1076	1076	1076	1076	526
1981	273	100	D/M	2/20	2/19	2/19	2/18	2/17	2/16	2/16	2/16	2/16	2/16	2/ 8	2/ 2	2/ 1	1/25	
			.1MM	235	466	660	816	964	968	968	968	968	968	1130	1196	1196	1234	1064
1982	273	100	D/M	3/31	3/31	3/30	3/31	3/30	3/30	3/30	3/25	3/25	3/25	3/20	3/13	3/11	3/12	
			.1MM	391	522	606	700	784	784	784	821	821	999	999	999	1028	1052	1221
1983	273	100	D/M	1/10	2/ 2	2/ 2	1/31	1/31	1/31	1/31	1/31	1/31	1/25	12/15	12/23	1/10	12/15	
			.1MM	282	321	321	356	356	356	356	356	356	394	492	492	492	492	288
1984	274	100	D/M	2/14	2/13	2/13	2/13	2/12	2/14	2/13	2/13	2/12	2/14	2/11	2/11	2/ 3	2/ 3	
			.1MM	321	421	508	566	573	655	755	815	822	847	966	1066	1073	1082	861
1985	273	100	D/M	2/23	2/23	3/11	3/11	3/11	3/ 8	3/ 8	3/ 8	3/ 8	3/ 8	3/ 1	2/23	2/21	2/23	
			.1MM	289	358	458	519	519	576	637	637	637	637	637	637	698	752	1057
1986	273	100	D/M	3/19	1/19	1/18	1/18	3/15	3/15	3/13	3/13	3/13	3/10	3/ 9	3/ 2	3/ 2	2/18	
			.1MM	261	428	542	542	579	579	587	587	587	702	709	709	709	709	631
1987	273	100	D/M	3/ 8	3/ 7	3/ 7	3/19	3/18	3/17	3/17	3/17	3/17	3/17	3/ 7	3/ 7	2/28	2/28	
			.1MM	222	383	383	421	487	536	536	536	536	536	536	536	539	622	916
1988	274	100	D/M	3/26	3/25	3/25	3/25	3/25	3/25	3/25	3/25	3/25	3/25	3/14	3/ 8	3/ 8	3/ 8	
			.1MM	301	472	571	571	571	571	571	571	571	571	622	622	622	630	489
1989	273	100	D/M	3/27	3/27	3/26	3/25	3/24	3/24	3/24	3/24	3/24	3/24	3/14	3/14	3/ 4	3/ 4	
			.1MM	281	558	717	836	848	848	848	848	848	848	848	848	848	1085	811
1990	273	100	D/M	3/12	3/11	3/11	3/11	3/11	3/10	3/10	3/10	3/10	3/10	3/ 2	2/22	2/22	2/13	
			.1MM	195	360	510	604	652	676	676	676	676	676	676	676	706	754	841

1991	273	100	D/M	2/ 5	2/ 4	2/ 4	2/ 4	2/ 3	2/ 3	2/ 3	2/ 3	12/21	12/21	12/17	2/ 3	2/21	2/ 3	
			.1MM	202	366	451	539	563	563	580	580	654	693	693	743	795	834	801
1992	274	100	D/M	3/27	3/27	3/26	3/26	3/27	3/27	3/27	3/26	3/26	3/26	3/27	3/26	3/26	3/26	
			.1MM	490	664	672	672	742	871	934	942	946	946	1014	1075	1246	1373	1251
1993	273	100	D/M	1/ 4	3/29	3/28	3/27	3/26	3/26	3/25	3/24	3/24	3/26	3/24	3/24	3/16	3/ 9	
			.1MM	361	542	737	944	1080	1184	1262	1322	1322	1341	1442	1578	1656	1716	1513
1994	273	100	D/M	2/20	3/22	3/22	3/21	3/21	3/21	4/ 3	4/ 2	4/ 1	3/31	3/22	3/21	3/21	3/15	
			.1MM	254	368	491	567	567	567	591	663	685	755	755	782	852	860	1386
1995	273	100	D/M	1/15	1/15	1/14	1/13	1/12	1/12	1/12	1/12	1/12	1/12	1/12	1/12	1/12	12/18	
			.1MM	608	722	782	872	932	937	937	937	937	937	937	937	937	937	335
1996	274	100	D/M	1/19	1/18	1/17	1/16	2/20	2/20	2/20	2/20	2/20	2/20	2/20	2/ 8	2/20	2/20	
			.1MM	387	584	586	622	790	841	841	863	863	863	863	863	863	863	1461
1997	273	100	D/M	2/21	4/ 4	2/19	4/ 3	4/ 2	4/ 1	3/31	3/29	3/29	3/27	3/25	3/25	3/14	3/14	
			.1MM	384	577	743	848	987	1036	1043	1175	1332	1481	1638	1681	1715	1715	1420

	1 DAY	2 DAY	3 DAY	4 DAY	5 DAY	6 DAY	7 DAY	8 DAY	9 DAY	10 DAY	15 DAY	20 DAY	25 DAY	30 DAY
MEAN EXTREME(MM)	32.9	51.7	66.0	76.9	86.5	95.2	102.4	108.8	114.7	120.6	143.2	159.3	170.6	179.4
STD. DEV.(MM)	9.2	14.5	19.8	24.0	28.0	31.5	34.8	38.0	41.6	45.1	54.5	60.7	65.8	67.7
YEARS ANALYSED	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0

** NOTE ** MEAN AND STANDARD DEVIATION HAVE BEEN ADJUSTED TO ACCOUNT FOR ONE OBSERVATION PER DAY.

NOTE ** VALUE IN FLAG INDICATES YEAR NOT INCLUDED IN ANALYSIS BASED ON % DAYS OPERATIONAL (<90.0%)

ATMOSPHERIC ENVIRONMENT SERVICE
RAIN+SNOWMELT INTENSITY, DURATION, FREQUENCY VALUES
PREPARED BY THE HYDROMETEOROLOGY DIVISION, CANADIAN CLIMATE CENTRE

STATION : Ottawa CDA, Ontario STATION NUMBER 6105976

LATITUDE: 4523 LONGITUDE: 7543 ELEVATION(M): 79

SNOWMELT MODEL 2

CRITICAL PERIOD : 1ST OF MONTH 10 TO THE END OF MONTH 5 NOTE : MODIFIED GUMBEL 12/82

RETURN PERIOD VALUES (MM) WITH 50% CONFIDENCE LIMITS

RETURN PERIOD YEARS	1 DAY	2 DAY	3 DAY	4 DAY	5 DAY
2	31.39+/- .55	49.34+/- .87	62.73+/- 1.19	72.92+/- 1.44	81.87+/- 1.68
5	39.50+/- .93	62.13+/- 1.47	80.24+/- 2.01	94.15+/- 2.43	106.62+/- 2.84
10	44.89+/- 1.26	70.62+/- 1.98	91.86+/- 2.71	108.24+/- 3.29	123.05+/- 3.83
25	51.68+/- 1.69	81.33+/- 2.67	106.52+/- 3.65	126.00+/- 4.43	143.76+/- 5.17
50	56.71+/- 2.03	89.27+/- 3.20	117.39+/- 4.37	139.18+/- 5.30	159.12+/- 6.18
100	61.72+/- 2.36	97.17+/- 3.72	128.19+/- 5.09	152.28+/- 6.18	174.40+/- 7.20

RETURN PERIOD YEARS	6 DAY	7 DAY	8 DAY	9 DAY	10 DAY
2	90.06+/- 1.89	96.70+/- 2.09	102.57+/- 2.28	107.86+/- 2.50	113.19+/- 2.71
5	117.85+/- 3.18	127.47+/- 3.53	136.13+/- 3.84	144.56+/- 4.21	153.01+/- 4.56
10	136.30+/- 4.30	147.90+/- 4.76	158.39+/- 5.19	168.92+/- 5.68	179.44+/- 6.17
25	159.56+/- 5.80	173.65+/- 6.42	186.47+/- 7.00	199.64+/- 7.66	212.76+/- 8.31
50	176.81+/- 6.94	192.75+/- 7.68	207.29+/- 8.38	222.42+/- 9.17	237.48+/- 9.94
100	193.97+/- 8.09	211.74+/- 8.95	228.00+/- 9.76	245.08+/-10.68	262.05+/-11.59

RETURN PERIOD YEARS	15 DAY	20 DAY	25 DAY	30 DAY
2	134.29+/- 3.27	149.30+/- 3.65	159.83+/- 3.96	168.26+/- 4.07
5	182.38+/- 5.51	202.90+/- 6.14	217.95+/- 6.66	228.04+/- 6.85
10	214.29+/- 7.45	238.46+/- 8.30	256.53+/- 9.00	267.71+/- 9.26
25	254.54+/-10.04	283.31+/-11.19	305.17+/-12.13	317.74+/-12.48
50	284.38+/-12.01	316.57+/-13.38	341.24+/-14.51	354.84+/-14.93
100	314.06+/-13.99	349.65+/-15.59	377.11+/-16.91	391.74+/-17.39

** WARNING ** : THE 1-DAY 100-YEAR RETURN PERIOD EVENT IS EXCEEDED BY THE 1-DAY EVENT IN 1934
** WARNING ** : THE 2-DAY 100-YEAR RETURN PERIOD EVENT IS EXCEEDED BY THE 2-DAY EVENT IN 1923
** WARNING ** : THE 3-DAY 100-YEAR RETURN PERIOD EVENT IS EXCEEDED BY THE 3-DAY EVENT IN 1923

ATMOSPHERIC ENVIRONMENT SERVICE
RAIN+SNOWMELT INTENSITY, DURATION, FREQUENCY VALUES
PREPARED BY THE HYDROMETEOROLOGY DIVISION, CANADIAN CLIMATE CENTRE

STATION : Ottawa CDA, Ontario STATION NUMBER 6105976

LATITUDE: 4523 LONGITUDE: 7543 ELEVATION(M): 79

SNOWMELT MODEL 3

CRITICAL PERIOD : 1ST OF MONTH 10 TO THE END OF MONTH 5 NOTE : MODIFIED GUMBEL 12/82

YR	TOTAL DAYS	% VALID	FLAG	START MAX	1 DAY	2 DAY	3 DAY	4 DAY	5 DAY	6 DAY	7 DAY	8 DAY	9 DAY	10 DAY	15 DAY	20 DAY	25 DAY	30 DAY	MAX SNPK
1890	242	88	**	D/M	4/ 4	4/ 3	4/ 7	4/ 4	4/ 3	4/ 4	4/ 3	4/ 3	4/ 3	4/ 3	3/26	3/21	3/21	3/12	
				.1MM	312	403	446	670	761	826	917	994	994	994	994	994	994	994	
1891	273	100		D/M	4/11	4/10	4/ 9	4/ 9	4/ 9	4/ 9	3/28	3/28	3/21	3/21	3/29	3/23	3/21	3/13	
				.1MM	342	606	730	824	824	824	844	844	991	1049	1217	1311	1455	1553	1870
1892	274	100		D/M	4/ 6	4/ 5	4/ 4	4/ 4	4/ 4	4/ 3	4/ 2	4/ 2	4/ 2	4/ 2	3/29	3/29	3/29	3/10	
				.1MM	451	827	1169	1404	1639	1869	1927	1936	1936	1936	1985	1994	1994	1994	1796
1893	273	100		D/M	4/13	4/12	4/11	4/10	4/10	4/ 8	4/ 8	4/ 8	4/ 8	4/ 8	3/31	3/31	3/25	3/21	
				.1MM	637	918	1092	1176	1223	1457	1504	1504	1504	1604	1645	1645	1658	1744	1836
1894	273	100		D/M	3/ 6	3/ 5	3/ 5	3/ 4	3/ 3	3/ 2	3/ 2	3/ 5	4/ 4	4/ 4	3/ 5	3/ 2	3/19	3/16	
				.1MM	292	536	705	712	719	822	822	836	982	982	982	1112	1225	1225	2161
1895	273	100		D/M	4/14	4/ 8	4/13	4/13	4/13	4/12	4/ 8	4/ 8	4/ 8	4/ 8	4/ 5	4/ 2	3/25	3/25	
				.1MM	394	700	925	1155	1315	1455	1476	1765	1995	2155	2295	2328	2377	2377	1821
1896	274	100		D/M	4/16	4/15	4/14	4/13	4/12	4/11	4/10	4/ 9	4/ 8	4/ 8	4/ 3	3/31	3/27	3/27	
				.1MM	699	996	1338	1521	1677	1776	1818	1867	1883	1883	1883	1883	1883	1890	1947
1897	273	100		D/M	4/ 5	4/ 4	4/ 4	4/ 2	4/ 1	3/31	3/30	3/30	3/29	3/29	3/22	3/19	3/19	3/ 9	
				.1MM	379	589	649	754	845	936	1036	1096	1138	1138	1161	1161	1161	1201	1188
1898	273	100		D/M	12/11	3/12	3/11	3/10	3/ 9	3/ 9	3/11	3/10	3/11	3/11	3/ 9	3/ 9	3/ 9	3/ 9	
				.1MM	356	661	934	1034	1101	1101	1261	1361	1465	1609	1709	1776	1776	1776	1885
1899	242	88	**	D/M	4/20	4/19	4/18	4/17	4/16	4/15	4/14	4/13	4/12	4/11	4/ 7	4/ 7	3/29	3/23	
				.1MM	396	716	988	1121	1179	1335	1539	1678	1823	1831	1831	1865	2062	2112	
1900	273	100		D/M	2/13	12/11	4/15	4/13	4/12	4/11	4/11	4/11	4/11	4/ 7	4/ 3	3/29	3/29	3/20	
				.1MM	327	374	496	633	796	937	1068	1068	1068	1204	1387	1518	1626	1653	1746
1901	273	100		D/M	11/21	4/14	4/13	4/12	4/11	4/10	4/ 9	4/ 8	4/ 7	4/ 6	4/ 1	3/27	3/24	3/21	
				.1MM	328	622	863	1037	1196	1403	1584	1783	1869	1979	2151	2442	2611	2676	2388
1902	273	100		D/M	3/22	12/14	3/21	3/21	3/21	3/21	3/22	3/21	3/20	3/20	3/16	3/11	3/11	2/28	
				.1MM	342	627	708	783	882	1015	1236	1461	1469	1469	1469	1592	1685	1685	1980
1903	273	100		D/M	3/20	3/19	3/19	3/19	3/19	3/19	3/18	3/17	3/19	3/18	3/11	3/ 8	3/ 5	2/28	
				.1MM	430	724	922	1022	1267	1435	1516	1620	1734	1815	1919	1919	1919	1952	2185
1904	274	100		D/M	4/25	4/10	4/ 9	4/ 8	4/ 8	4/ 7	4/ 7	4/ 6	4/ 6	4/ 2	3/31	4/ 7	4/ 2	3/27	
				.1MM	535	885	1018	1181	1303	1403	1489	1556	1556	1652	1774	1860	1902	1970	2738
1905	273	100		D/M	3/29	3/29	3/28	3/28	3/27	3/25	3/25	3/29	3/29	3/28	3/27	3/24	3/18	3/18	
				.1MM	369	599	729	820	907	962	1053	1166	1297	1427	1514	1565	1777	1907	2038
1906	273	100		D/M	3/27	1/22	3/27	3/27	2/21	2/21	2/21	1/16	1/16	1/16	1/16	2/21	12/30	12/27	
				.1MM	346	398	405	405	433	433	433	434	434	434	434	434	434	434	483
1907	273	100		D/M	3/28	3/23	3/28	3/27	3/26	3/23	3/23	3/23	3/22	3/22	3/22	3/23	3/22	3/22	
				.1MM	219	411	539	624	709	800	974	1120	1204	1220	1220	1220	1262	1300	1275
1908	274	100		D/M	4/26	4/26	4/25	4/24	4/23	4/22	4/21	4/20	4/19	4/18	4/14	4/ 8	4/ 3	3/29	

			.1MM	545	913	1202	1443	1678	1701	1726	1925	2049	2091	2091	2304	2353	2402	2622
1909	273	100	D/M	4/13	4/13	4/13	4/13	4/12	4/12	4/12	4/ 7	4/ 6	4/ 6	4/ 3	3/30	3/25	4/ 3	
			.1MM	623	1060	1168	1338	1446	1484	1484	1540	1866	1974	2144	2211	2286	2326	2094
1910	273	100	D/M	1/22	1/21	3/22	3/22	3/20	3/20	3/19	3/19	3/19	3/19	3/13	3/ 6	2/28	2/27	
			.1MM	281	383	518	617	750	849	869	869	869	869	869	869	903	903	1089
1911	273	100	D/M	4/14	4/13	4/13	4/12	4/12	4/13	4/14	4/13	4/13	4/13	4/ 7	4/ 5	3/27	3/27	
			.1MM	605	779	949	1016	1041	1099	1337	1511	1635	1716	1783	1784	1865	1940	1959
1912	274	100	D/M	4/16	4/16	4/15	4/14	4/13	4/12	4/11	4/11	4/ 8	4/ 8	4/ 6	3/29	3/29	3/19	
			.1MM	491	828	870	937	1044	1152	1169	1169	1257	1594	1861	2013	2013	2013	1825
1913	273	100	D/M	3/31	3/30	3/19	3/19	3/21	3/19	3/19	3/19	3/19	3/19	3/19	3/19	3/14	3/13	
			.1MM	446	580	733	733	855	1072	1236	1279	1279	1279	1482	1646	1859	1882	1875
1914	273	100	D/M	4/18	4/17	4/16	4/16	4/15	4/14	4/14	4/12	4/11	4/10	4/ 5	3/31	3/26	3/26	
			.1MM	321	555	734	874	958	1008	1008	1043	1118	1126	1126	1203	1203	1203	1643
1915	273	100	D/M	11/16	4/ 6	4/ 6	4/ 5	4/ 4	4/ 3	4/ 2	4/ 1	4/ 1	4/ 1	3/25	3/21	3/21	3/21	
			.1MM	384	471	693	808	883	958	1016	1100	1100	1100	1100	1100	1100	1156	1261
1916	274	100	D/M	4/13	4/13	4/12	4/25	4/23	4/12	4/12	4/10	4/10	4/11	4/13	4/ 9	3/27	3/29	
			.1MM	269	495	650	735	885	1033	1142	1235	1344	1406	1526	1583	1689	1874	3137
1917	273	100	D/M	4/19	4/18	4/18	4/18	4/17	4/16	4/15	4/14	4/13	4/12	4/11	4/ 6	4/ 1	3/27	3/23	
			.1MM	504	995	1249	1424	1499	1590	1655	1671	1678	1685	1685	1685	1685	1763	2570
1918	273	100	D/M	4/ 8	4/ 1	3/31	3/30	3/29	3/29	4/ 2	4/ 1	3/31	3/30	3/31	3/29	3/21	3/17	
			.1MM	384	682	848	996	1054	1054	1244	1566	1732	1880	1938	1946	2058	2225	2684
1919	273	100	D/M	4/11	4/10	4/ 9	4/ 9	4/ 7	4/ 7	4/ 6	4/ 5	4/ 5	4/ 3	4/ 3	3/24	3/18	3/16	
			.1MM	450	642	775	877	1064	1166	1256	1355	1355	1406	1406	1406	1406	1406	1686
1920	274	100	D/M	3/27	3/26	3/25	3/24	3/24	3/23	3/23	3/21	3/21	3/21	3/17	3/12	3/ 6	3/ 6	
			.1MM	392	662	929	1163	1362	1470	1470	1479	1479	1479	1559	1616	1616	1616	1518
1921	273	100	D/M	3/21	3/20	3/19	3/19	3/20	3/20	3/19	3/19	3/16	3/16	3/11	3/ 6	3/ 1	2/28	
			.1MM	291	564	584	584	716	866	886	886	915	1065	1080	1080	1240	1282	931
1922	273	100	D/M	4/ 7	4/ 7	4/ 6	4/ 5	4/ 4	4/ 3	4/ 2	4/ 2	4/ 2	4/ 2	3/26	3/20	3/15	3/14	
			.1MM	384	688	863	996	1062	1120	1171	1171	1171	1171	1179	1307	1356	1414	1206
1923	273	100	D/M	4/21	4/21	4/20	4/19	4/19	4/17	4/16	4/16	4/16	4/16	4/ 8	4/ 3	4/ 3	4/ 3	
			.1MM	925	1380	1721	1770	1770	1828	1877	1877	1877	1877	1877	1965	1965	1965	2283
1924	274	100	D/M	4/ 8	4/ 7	4/ 6	4/ 5	4/ 4	4/ 5	4/ 5	4/ 4	4/ 4	4/ 4	4/ 4	4/ 3	3/25	3/22	
			.1MM	322	531	680	909	984	1050	1205	1280	1305	1363	1535	1643	1743	1866	1935
1925	273	100	D/M	3/27	3/27	3/26	3/25	3/25	3/24	3/24	3/22	3/21	3/19	3/18	3/11	3/ 8	3/ 8	
			.1MM	334	613	821	1030	1143	1218	1218	1267	1331	1453	1566	1632	1632	1632	1124
1926	273	100	D/M	5/ 2	5/ 1	4/30	4/29	4/28	4/27	4/26	4/25	4/24	4/23	4/21	4/13	4/ 8	4/ 8	
			.1MM	472	744	903	1039	1258	1417	1433	1704	1896	2168	2463	2638	2638	2638	2467
1927	273	100	D/M	11/16	11/15	4/ 4	4/ 4	4/ 3	3/13	3/12	3/12	4/ 4	4/ 3	3/29	3/27	3/13	3/13	
			.1MM	324	399	519	643	685	804	912	970	1057	1099	1131	1131	1230	1332	2212
1928	274	100	D/M	4/ 7	4/ 7	4/ 6	4/ 5	4/ 4	4/ 4	4/ 4	4/ 4	4/ 4	4/ 4	3/25	3/22	3/15	3/13	
			.1MM	349	664	891	1076	1160	1160	1160	1160	1160	1160	1160	1277	1374	1512	1388
1929	273	100	D/M	1/ 6	3/15	3/13	3/13	3/13	3/25	3/26	3/25	3/25	3/26	3/14	3/13	3/13	3/ 4	
			.1MM	274	311	406	510	510	543	613	727	727	790	904	904	937	1005	979
1930	273	100	D/M	1/ 7	1/ 7	1/ 7	1/ 7	1/ 7	1/ 3	1/ 2	1/ 2	1/ 2	1/ 2	1/ 2	12/27	2/19	3/ 8	
			.1MM	284	546	546	546	546	571	699	699	699	699	699	699	732	732	994
1931	273	100	D/M	3/29	3/28	3/28	3/26	3/25	3/24	3/29	3/28	3/27	3/26	3/22	3/16	3/16	3/10	
			.1MM	254	376	471	590	688	795	921	1043	1127	1257	1355	1462	1537	1595	1514
1932	274	100	D/M	2/12	4/12	4/11	4/10	4/ 9	4/ 8	4/ 7	4/ 6	4/ 6	4/ 6	4/ 1	4/ 1	3/27	3/27	
			.1MM	301	419	569	708	905	947	1005	1013	1013	1013	1050	1139	1248	1248	907
1933	273	100	D/M	12/25	4/ 1	4/ 1	4/ 1	4/ 2	4/ 1	4/ 1	3/31	3/31	3/31	3/27	3/20	3/20	3/20	
			.1MM	228	319	458	533	639	799	918	989	1032	1032	1032	1032	1066	1066	730
1934	273	100	D/M	12/31	4/18	4/17	4/16	4/15	4/15	4/14	4/14	4/11	4/10	4/ 8	4/ 2	4/ 1	3/26	
			.1MM	732	780	963	1178	1381	1505	1609	1700	2130	2370	2494	2585	2669	2729	2247
1935	273	100	D/M	4/10	4/10	4/ 9	4/ 9	4/ 8	4/ 9	4/ 8	4/ 8	4/ 8	4/ 5	3/31	3/28	3/23	3/16	
			.1MM	286	514	741	912	1020	1214	1322	1322	1322	1338	1338	1354	1413	1413	1428

1936	274	100	D/M	3/12	3/30	3/28	3/28	3/27	3/26	3/25	3/25	3/23	3/22	3/17	3/12	3/11	3/12	
			.1MM	294	407	552	767	884	1076	1247	1272	1305	1504	1546	1687	1768	1983	1490
1937	273	100	D/M	4/ 5	4/ 5	4/ 5	4/ 5	4/ 5	4/ 5	4/ 5	4/ 5	4/ 5	4/ 5	4/ 5	4/ 5	12/27	12/26	
			.1MM	309	516	654	745	785	851	913	913	913	913	913	913	913	913	699
1938	273	100	D/M	3/31	3/30	3/29	3/23	3/20	3/21	3/20	3/19	3/23	3/22	3/17	3/13	3/16	3/ 5	
			.1MM	309	470	585	668	751	883	1023	1084	1261	1343	1476	1616	1690	1751	1407
1939	273	100	D/M	4/26	4/26	4/26	4/25	4/23	4/23	4/22	4/21	4/20	4/19	4/14	4/11	4/11	3/31	
			.1MM	368	714	928	1094	1193	1407	1600	1705	1827	2025	2087	2138	2138	2171	1930
1940	274	100	D/M	4/19	4/18	4/18	4/18	4/18	4/18	4/19	4/18	4/17	4/17	4/12	4/ 9	4/ 1	3/31	
			.1MM	278	491	703	812	967	1082	1259	1472	1580	1667	1753	1753	1753	1786	1749
1941	273	100	D/M	12/29	4/10	4/ 9	4/ 9	4/ 8	4/ 6	4/ 6	4/ 5	4/ 4	4/ 3	4/ 3	4/ 3	4/ 3	3/16	
			.1MM	422	624	841	1034	1193	1342	1535	1619	1686	1744	1744	1744	1744	1744	1778
1942	273	100	D/M	12/24	12/23	12/23	12/23	3/29	3/27	3/27	3/26	3/25	3/25	3/21	3/16	3/ 9	3/ 4	
			.1MM	325	490	490	490	541	577	675	766	815	815	815	900	998	998	1065
1943	272	99	D/M	4/25	4/24	4/23	4/23	4/22	4/23	4/22	4/21	4/20	4/19	4/17	4/ 9	4/ 9	3/31	
			.1MM	688	1067	1341	1614	1813	2044	2243	2365	2432	2517	2583	2590	2590	2590	2433
1944	274	100	D/M	4/20	4/10	4/18	4/18	4/17	4/17	4/17	4/17	4/13	4/11	4/10	4/ 2	3/31	3/25	
			.1MM	234	375	525	645	702	702	702	702	734	828	1014	1134	1134	1134	955
1945	273	100	D/M	3/18	3/20	3/18	3/18	3/17	3/16	3/15	3/18	3/18	3/17	3/14	3/14	3/ 2	2/26	
			.1MM	253	437	675	871	1022	1123	1288	1491	1704	1855	1956	2121	2179	2179	2008
1946	273	100	D/M	3/13	3/13	3/13	3/13	3/13	3/13	3/ 8	3/ 7	3/ 6	3/ 6	3/ 2	3/ 2	3/ 2	2/13	
			.1MM	402	681	728	728	728	728	847	959	1066	1113	1113	1113	1155	1202	905
1947	273	100	D/M	4/11	4/11	4/10	4/ 9	4/10	4/10	4/ 6	4/ 5	4/ 6	4/ 5	4/ 9	4/ 4	4/ 5	3/25	
			.1MM	699	1284	1393	1459	1567	1651	1738	1847	1912	2021	2105	2118	2183	2292	2340
1948	274	100	D/M	3/16	3/16	3/21	3/16	3/19	3/16	3/16	3/16	3/16	3/16	3/16	3/16	3/16	3/16	
			.1MM	325	507	532	634	743	1017	1108	1250	1325	1442	1442	1657	1797	1797	1272
1949	273	100	D/M	4/ 5	4/ 5	4/ 4	4/ 3	4/ 2	4/ 1	3/31	3/30	3/29	3/28	3/23	3/22	3/22	3/22	
			.1MM	276	491	624	797	912	936	976	1034	1116	1214	1426	1543	1592	1592	1464
1950	273	100	D/M	12/21	12/20	12/19	12/18	12/18	12/18	12/18	12/18	12/18	12/18	4/ 3	3/29	3/24	3/23	
			.1MM	336	614	695	850	850	850	850	850	972	1020	1020	1031	1102	1139	1345
1951	260	95	D/M	3/30	3/29	3/29	3/29	3/29	3/29	3/29	3/28	3/27	3/26	3/21	3/16	3/11	3/ 6	
			.1MM	349	637	773	893	977	1073	1227	1285	1285	1285	1285	1293	1308	1308	1212
1952	274	100	D/M	4/ 5	4/ 4	4/ 5	4/ 5	4/ 5	4/ 5	4/ 5	4/ 4	4/ 3	4/ 2	3/28	3/23	3/20	3/12	
			.1MM	306	441	613	784	973	1139	1374	1509	1649	1768	1869	1876	1876	1876	1716
1953	273	100	D/M	12/10	12/10	12/10	12/10	12/ 6	12/ 5	12/ 5	12/ 5	12/ 5	12/ 5	12/ 5	12/ 5	12/ 5	2/15	
			.1MM	389	389	389	389	405	599	599	599	599	599	599	599	599	599	295
1954	271	99	D/M	4/11	4/10	4/ 6	4/ 8	4/ 7	4/ 6	4/ 6	4/ 6	4/ 6	4/ 6	4/ 6	4/ 6	4/ 6	4/ 6	
			.1MM	462	698	786	859	1173	1484	1536	1536	1536	1536	1536	1536	1536	1536	1194
1955	273	100	D/M	4/11	4/10	4/10	4/10	4/10	4/ 9	4/ 9	4/ 7	4/ 6	4/ 5	3/31	3/30	3/21	3/16	
			.1MM	292	566	716	981	1175	1292	1292	1316	1475	1625	1733	1791	1890	1981	1973
1956	274	100	D/M	4/ 5	4/ 5	4/ 5	4/ 4	4/ 5	4/ 5	4/ 4	4/ 4	4/ 4	4/ 1	4/ 1	4/ 1	4/ 1	4/ 1	
			.1MM	279	504	661	740	892	1000	1079	1091	1091	1119	1131	1131	1131	1131	1098
1957	273	100	D/M	1/22	1/21	1/21	1/21	1/21	1/21	1/21	1/21	3/14	3/13	3/ 9	3/ 9	2/26	2/24	
			.1MM	414	512	512	512	512	512	512	512	539	672	742	758	776	776	775
1958	273	100	D/M	12/ 7	4/ 2	4/ 1	3/31	3/30	3/30	3/29	3/28	3/27	3/26	3/21	3/16	3/18	3/13	
			.1MM	218	267	384	512	645	747	814	905	1004	1062	1096	1209	1311	1399	1479
1959	273	100	D/M	4/16	4/15	4/14	4/13	4/12	4/11	4/10	4/ 9	4/ 8	4/ 7	4/ 2	3/30	3/30	3/20	
			.1MM	412	611	761	827	861	1022	1146	1246	1444	1474	1630	1724	1793	1880	2142
1960	274	100	D/M	4/16	4/16	4/16	4/15	4/14	4/13	4/12	4/12	4/10	4/ 9	4/ 4	3/30	3/28	3/28	
			.1MM	462	805	1244	1523	1737	1923	2005	2005	2037	2060	2060	2060	2142	2254	2299
1961	273	100	D/M	2/25	2/24	2/23	2/22	2/23	2/22	2/19	2/18	2/23	2/23	2/18	2/13	2/13	2/23	
			.1MM	241	284	404	411	413	420	427	518	552	590	597	597	597	666	756
1962	273	100	D/M	3/30	3/29	3/28	3/27	3/26	3/25	3/24	3/24	3/22	3/21	3/16	3/12	3/12	3/12	
			.1MM	320	581	703	778	919	1034	1076	1076	1219	1277	1277	1277	1277	1317	1427
1963	273	100	D/M	3/30	3/26	3/25	3/27	3/26	3/25	3/25	3/25	3/25	3/21	3/17	3/17	3/17	3/ 5	

			.1MM	234	292	390	390	539	637	653	653	653	686	702	702	702	709	1488
1964	274	100	D/M	3/ 6	3/ 5	3/ 4	3/ 3	3/ 3	3/ 3	3/ 3	3/ 3	3/ 3	3/ 3	3/ 3	3/ 3	3/ 3	2/ 5	
			.1MM	263	365	508	628	628	628	628	628	628	628	628	628	628	628	681
1965	273	100	D/M	4/ 7	4/ 6	4/ 5	4/ 5	3/ 3	3/ 3	3/ 3	3/ 3	3/ 3	3/ 3	2/25	2/25	2/11	2/ 7	
			.1MM	258	375	466	466	506	506	506	506	506	506	570	570	570	570	750
1966	273	100	D/M	2/11	2/28	2/28	2/28	2/28	2/28	2/28	12/24	12/23	12/23	12/23	2/11	2/ 9	12/ 2	
			.1MM	205	302	387	387	387	387	387	460	506	506	506	506	506	506	676
1967	273	100	D/M	4/ 1	4/ 1	3/31	3/31	3/29	3/28	3/27	3/27	3/25	3/25	3/25	3/25	3/10	3/10	
			.1MM	398	745	836	836	903	1103	1266	1266	1291	1291	1291	1291	1291	1291	1650
1968	274	100	D/M	3/17	3/20	3/20	3/19	3/17	3/17	3/16	3/16	3/16	3/16	3/10	3/10	3/10	3/10	
			.1MM	225	350	529	613	771	950	963	963	963	963	963	979	1106	1106	1071
1969	273	100	D/M	1/24	3/24	3/24	3/21	3/21	3/20	3/19	3/19	3/19	3/19	3/15	3/15	3/15	1/23	
			.1MM	221	311	311	381	483	527	536	536	536	536	561	561	561	561	978
1970	273	100	D/M	4/ 9	4/ 8	4/ 8	4/ 7	4/ 9	4/ 8	4/ 7	4/ 7	4/ 7	4/ 7	4/ 2	3/25	3/21	3/21	
			.1MM	303	444	469	477	654	795	803	803	803	803	803	818	818	818	1865
1971	273	100	D/M	4/13	4/12	4/11	4/10	4/12	4/12	4/11	4/10	4/10	4/10	4/ 3	3/30	3/30	3/30	
			.1MM	280	449	498	514	597	679	728	744	744	744	744	744	744	744	3390
1972	274	100	D/M	12/10	12/ 9	12/ 9	12/ 9	4/16	4/15	4/14	4/13	4/12	4/11	4/11	4/ 3	3/30	3/22	
			.1MM	232	372	471	562	652	804	1002	1070	1135	1167	1167	1167	1167	1167	2169
1973	273	100	D/M	3/17	3/16	3/15	3/14	3/13	3/12	3/11	3/10	3/10	3/ 8	3/ 3	3/ 3	3/ 3	3/ 3	
			.1MM	310	507	656	691	749	935	1098	1136	1168	1442	1584	1616	1643	1725	1362
1974	273	100	D/M	3/ 4	3/ 6	4/ 3	3/ 4	3/ 4	3/ 4	3/ 4	2/28	2/28	2/28	2/22	2/22	2/22	3/ 7	
			.1MM	439	552	679	1096	1096	1096	1096	1140	1140	1140	1140	1140	1140	1232	1045
1975	273	100	D/M	3/19	4/17	4/16	4/15	4/14	4/14	4/14	4/14	4/14	4/14	4/14	3/30	3/25	3/19	
			.1MM	350	619	809	893	977	977	977	977	977	977	977	977	977	977	1345
1976	274	100	D/M	4/ 1	4/ 1	4/ 1	3/25	3/25	3/28	3/26	3/26	3/25	3/25	3/21	3/20	3/13	3/ 5	
			.1MM	435	651	738	921	971	1073	1328	1544	1751	1838	1960	2040	2127	2249	1865
1977	273	100	D/M	3/13	3/13	3/12	3/10	3/10	3/10	3/ 9	3/ 9	3/ 7	3/ 6	3/ 4	2/24	2/24	2/24	
			.1MM	410	647	821	1026	1263	1385	1476	1476	1500	1532	1561	1589	1589	1589	1310
1978	273	100	D/M	1/25	1/25	4/10	4/10	4/10	4/10	4/10	4/10	4/ 7	4/ 4	3/31	3/27	3/21	3/20	
			.1MM	332	384	495	682	790	857	857	857	887	932	1040	1107	1113	1221	1929
1979	273	100	D/M	3/24	3/23	3/22	3/21	3/20	3/20	3/20	3/20	3/20	3/20	3/10	3/ 5	3/ 3	2/23	
			.1MM	411	613	785	927	1024	1024	1024	1024	1024	1024	1086	1116	1116	1116	1563
1980	274	100	D/M	3/22	3/21	3/21	3/21	3/21	3/21	3/21	3/21	3/21	3/18	3/17	3/11	3/11	3/11	
			.1MM	502	652	761	873	918	918	958	958	958	994	996	996	996	996	547
1981	273	100	D/M	2/20	2/20	2/19	2/18	2/17	2/17	2/17	2/17	2/17	2/17	2/ 8	2/ 2	2/ 1	1/25	
			.1MM	295	574	807	984	1153	1153	1153	1153	1153	1153	1293	1359	1359	1381	1094
1982	273	100	D/M	3/31	3/31	3/30	3/31	3/30	3/30	3/30	3/25	3/25	3/25	3/20	3/13	3/11	3/12	
			.1MM	385	522	586	678	742	742	742	769	769	925	925	925	940	946	1249
1983	273	100	D/M	1/10	2/ 2	2/ 2	1/31	1/31	1/31	3/ 8	3/ 8	3/ 6	12/15	12/15	12/23	1/10	12/15	
			.1MM	282	307	307	328	328	328	342	342	363	380	514	514	514	514	356
1984	274	100	D/M	4/ 5	4/ 4	4/ 3	4/ 2	4/ 1	3/31	3/30	3/30	3/30	3/30	3/22	3/17	3/16	3/16	
			.1MM	321	446	539	642	704	788	863	863	863	863	863	869	869	945	1020
1985	273	100	D/M	2/23	2/23	3/11	3/11	3/11	3/ 8	3/ 8	3/ 8	3/ 8	3/ 8	3/ 1	2/23	2/21	2/23	
			.1MM	271	325	400	443	443	484	527	527	527	527	527	527	570	607	1106
1986	273	100	D/M	3/19	1/19	1/18	1/18	3/15	3/15	3/13	3/13	3/13	3/10	3/ 9	3/ 2	3/ 2	2/18	
			.1MM	275	418	527	527	546	546	554	554	554	669	676	676	676	676	713
1987	273	100	D/M	3/22	3/21	3/20	3/20	3/18	3/17	3/17	3/17	3/17	3/17	3/ 8	3/ 7	2/28	2/28	
			.1MM	341	479	536	567	609	642	673	673	673	673	673	673	673	673	985
1988	274	100	D/M	1/31	3/26	3/25	3/25	3/25	3/25	3/25	3/25	3/25	3/25	3/14	3/ 8	3/ 8	3/ 8	
			.1MM	273	488	650	650	650	650	650	650	650	650	684	684	684	692	517
1989	273	100	D/M	3/28	3/27	3/26	3/25	3/24	3/24	3/24	3/24	3/24	3/24	3/14	3/14	3/ 4	3/ 4	
			.1MM	405	664	794	892	904	904	904	904	904	904	904	904	904	1142	846
1990	273	100	D/M	3/16	3/15	3/15	3/13	3/12	3/11	3/11	3/10	3/10	3/10	3/10	3/ 2	2/22	2/16	
			.1MM	232	407	494	612	796	932	1019	1029	1029	1029	1029	1029	1029	1029	950

1991	273	100	D/M	2/ 5	2/ 4	2/ 4	2/ 4	2/ 3	2/ 3	12/17	12/17	12/21	12/21	12/17	3/ 1	3/ 1	3/ 1	
			.1MM	207	375	454	523	533	533	539	539	619	642	642	708	760	783	875
1992	274	100	D/M	3/27	3/27	3/26	3/26	3/27	3/27	3/27	3/26	3/26	3/26	3/27	3/26	3/26	3/26	
			.1MM	455	614	622	622	672	777	822	830	830	830	879	923	1071	1180	1309
1993	273	100	D/M	3/29	3/29	3/28	3/27	3/26	3/26	3/25	3/24	3/24	3/26	3/25	3/24	3/16	3/16	
			.1MM	366	566	727	899	1008	1113	1171	1213	1213	1229	1321	1493	1602	1666	1563
1994	273	100	D/M	2/20	2/20	3/22	3/21	3/21	3/21	3/21	3/21	3/21	3/31	3/22	3/21	3/21	3/15	
			.1MM	372	434	439	515	515	515	515	566	579	600	630	638	706	724	1359
1995	273	100	D/M	1/15	1/15	1/14	1/13	1/12	1/12	1/12	1/13	1/12	1/12	1/12	1/12	1/12	12/18	
			.1MM	556	655	698	788	848	848	848	921	981	981	981	981	981	981	335
1996	274	100	D/M	1/19	1/18	1/17	2/20	2/20	2/20	2/20	2/20	2/20	2/20	2/20	2/ 8	2/20	2/20	
			.1MM	374	558	560	598	751	787	787	809	809	809	809	809	809	809	1510
1997	273	100	D/M	2/21	4/ 5	4/ 4	4/ 3	4/ 2	4/ 1	4/ 1	3/30	3/29	3/28	3/25	3/25	3/14	3/14	
			.1MM	384	604	878	968	1080	1112	1112	1141	1415	1501	1666	1692	1726	1726	1429

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	1 DAY	2 DAY	3 DAY	4 DAY	5 DAY	6 DAY	7 DAY	8 DAY	9 DAY	10 DAY	15 DAY	20 DAY	25 DAY	30 DAY
MEAN EXTREME(MM)	36.9	57.4	71.2	82.2	91.8	100.7	107.7	113.3	119.1	124.7	146.4	162.5	172.4	182.1
STD. DEV.(MM)	12.6	20.3	25.4	29.6	32.9	35.9	38.3	41.2	44.6	47.7	57.5	64.5	68.0	71.2
YEARS ANALYSED	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0

** NOTE ** MEAN AND STANDARD DEVIATION HAVE BEEN ADJUSTED TO ACCOUNT FOR ONE OBSERVATION PER DAY.

NOTE ** VALUE IN FLAG INDICATES YEAR NOT INCLUDED IN ANALYSIS BASED ON % DAYS OPERATIONAL (<90.0%)

ATMOSPHERIC ENVIRONMENT SERVICE
RAIN+SNOWMELT INTENSITY, DURATION, FREQUENCY VALUES
PREPARED BY THE HYDROMETEOROLOGY DIVISION, CANADIAN CLIMATE CENTRE

STATION : Ottawa CDA, Ontario STATION NUMBER 6105976

LATITUDE: 4523 LONGITUDE: 7543 ELEVATION(M): 79

SNOWMELT MODEL 3

CRITICAL PERIOD : 1ST OF MONTH 10 TO THE END OF MONTH 5 NOTE : MODIFIED GUMBEL 12/82

RETURN PERIOD VALUES (MM) WITH 50% CONFIDENCE LIMITS

RETURN PERIOD YEARS	1 DAY	2 DAY	3 DAY	4 DAY	5 DAY
2	34.88+/- .76	54.11+/- 1.22	67.08+/- 1.53	77.30+/- 1.78	86.43+/- 1.98
5	46.02+/- 1.28	72.06+/- 2.06	89.49+/- 2.57	103.44+/- 3.00	115.51+/- 3.33
10	53.41+/- 1.72	83.98+/- 2.78	104.36+/- 3.47	120.79+/- 4.05	134.80+/- 4.50
25	62.73+/- 2.32	99.00+/- 3.75	123.11+/- 4.68	142.67+/- 5.46	159.13+/- 6.07
50	69.64+/- 2.78	110.14+/- 4.48	137.02+/- 5.60	158.89+/- 6.53	177.17+/- 7.26
100	76.51+/- 3.24	121.22+/- 5.22	150.85+/- 6.52	175.03+/- 7.61	195.11+/- 8.46

RETURN PERIOD YEARS	6 DAY	7 DAY	8 DAY	9 DAY	10 DAY
2	94.82+/- 2.16	101.46+/- 2.30	106.56+/- 2.48	111.77+/- 2.68	116.88+/- 2.87
5	126.54+/- 3.63	135.25+/- 3.87	142.95+/- 4.17	151.13+/- 4.51	158.98+/- 4.82
10	147.59+/- 4.91	157.68+/- 5.23	167.10+/- 5.63	177.26+/- 6.09	186.93+/- 6.52
25	174.14+/- 6.62	185.96+/- 7.05	197.56+/- 7.60	210.20+/- 8.22	222.17+/- 8.79
50	193.82+/- 7.92	206.93+/- 8.44	220.14+/- 9.09	234.63+/- 9.83	248.31+/-10.52
100	213.40+/- 9.23	227.79+/- 9.83	242.60+/-10.59	258.93+/-11.45	274.30+/-12.25

RETURN PERIOD YEARS	15 DAY	20 DAY	25 DAY	30 DAY
2	136.93+/- 3.45	151.93+/- 3.87	161.24+/- 4.09	170.40+/- 4.28
5	187.70+/- 5.82	208.85+/- 6.52	221.31+/- 6.88	233.30+/- 7.21
10	221.39+/- 7.86	246.62+/- 8.81	261.18+/- 9.30	275.05+/- 9.74
25	263.87+/-10.60	294.26+/-11.88	311.46+/-12.54	327.69+/-13.13
50	295.38+/-12.68	329.59+/-14.21	348.75+/-15.00	366.73+/-15.71
100	326.71+/-14.77	364.72+/-16.56	385.83+/-17.48	405.56+/-18.30

** WARNING ** : THE 1-DAY 100-YEAR RETURN PERIOD EVENT IS EXCEEDED BY THE 1-DAY EVENT IN 1923
** WARNING ** : THE 2-DAY 100-YEAR RETURN PERIOD EVENT IS EXCEEDED BY THE 2-DAY EVENT IN 1923
** WARNING ** : THE 2-DAY 100-YEAR RETURN PERIOD EVENT IS EXCEEDED BY THE 2-DAY EVENT IN 1947
** WARNING ** : THE 3-DAY 100-YEAR RETURN PERIOD EVENT IS EXCEEDED BY THE 3-DAY EVENT IN 1923
** WARNING ** : THE 4-DAY 100-YEAR RETURN PERIOD EVENT IS EXCEEDED BY THE 4-DAY EVENT IN 1923

ATMOSPHERIC ENVIRONMENT SERVICE
RAIN+SNOWMELT INTENSITY, DURATION, FREQUENCY VALUES
PREPARED BY THE HYDROMETEOROLOGY DIVISION, CANADIAN CLIMATE CENTRE

STATION : Ottawa CDA, Ontario STATION NUMBER 6105976

LATITUDE: 4523 LONGITUDE: 7543 ELEVATION(M): 79

SNOWMELT MODEL 4

CRITICAL PERIOD : 1ST OF MONTH 10 TO THE END OF MONTH 5 NOTE : MODIFIED GUMBEL 12/82

YR	TOTAL DAYS	% VALID	FLAG	START MAX	1 DAY	2 DAY	3 DAY	4 DAY	5 DAY	6 DAY	7 DAY	8 DAY	9 DAY	10 DAY	15 DAY	20 DAY	25 DAY	30 DAY	MAX SNPK
1890	242	88	**	D/M	2/15	2/14	2/13	4/ 2	4/ 1	3/31	3/30	3/30	3/30	3/26	2/15	2/13	2/ 5	1/31	
				.1MM	315	345	370	370	375	390	410	410	410	457	529	529	569	570	
1891	273	100		D/M	3/ 9	3/ 9	4/ 9	4/10	4/10	4/ 9	4/10	4/ 9	4/ 9	4/ 8	3/31	3/28	3/21	3/21	
				.1MM	337	357	444	578	712	813	886	987	1059	1089	1104	1149	1149	1257	1642
1892	274	100		D/M	4/ 5	4/ 5	4/ 4	4/ 5	4/ 4	4/ 3	4/ 3	4/ 2	4/ 2	4/ 1	4/ 2	3/28	3/24	3/23	
				.1MM	228	400	517	686	803	909	1010	1085	1136	1187	1227	1267	1318	1363	1542
1893	273	100		D/M	4/20	4/20	4/19	4/18	4/17	4/ 8	4/ 8	4/13	4/12	4/12	4/ 7	4/ 2	3/29	3/24	
				.1MM	299	433	484	580	671	735	780	820	961	1095	1216	1297	1383	1517	1608
1894	273	100		D/M	3/ 7	3/ 6	3/ 5	3/ 4	3/ 3	3/ 2	3/ 1	3/ 4	3/ 4	3/31	3/ 5	3/ 2	3/ 1	3/ 6	
				.1MM	165	256	374	429	459	504	565	591	621	679	760	790	830	858	1708
1895	273	100		D/M	4/14	4/ 8	4/18	4/17	4/16	4/14	4/14	4/13	4/12	4/11	4/ 6	4/ 1	3/28	3/22	
				.1MM	231	393	522	664	755	912	1069	1134	1283	1303	1371	1569	1726	1839	1642
1896	274	100		D/M	3/ 2	4/17	4/16	4/15	4/14	4/14	4/13	4/12	4/11	4/10	4/ 6	3/31	3/27	3/22	
				.1MM	342	449	651	811	993	1130	1221	1296	1381	1446	1501	1541	1581	1611	1719
1897	273	100		D/M	3/10	4/ 4	4/ 4	4/ 3	4/ 2	4/ 1	3/31	3/30	3/29	3/28	3/23	3/19	3/18	3/ 9	
				.1MM	218	394	490	535	616	687	762	853	914	954	984	1010	1030	1040	943
1898	273	100		D/M	12/11	3/12	3/11	3/26	3/25	3/24	3/23	3/23	3/23	3/10	3/16	3/10	3/ 7	3/ 4	
				.1MM	283	386	482	593	674	729	790	830	870	943	1026	1094	1205	1290	1872
1899	242	88	**	D/M	4/ 8	4/19	4/18	4/18	4/17	4/16	4/15	4/14	4/12	4/12	4/ 7	4/ 2	3/28	3/23	
				.1MM	165	278	420	522	618	673	748	826	908	1010	1081	1106	1209	1311	
1900	273	100		D/M	2/13	12/11	12/11	4/11	4/11	2/ 8	2/ 8	4/ 6	4/ 7	4/ 6	4/ 1	3/28	3/23	3/19	
				.1MM	274	367	367	424	525	611	651	662	752	843	908	953	1028	1089	1237
1901	273	100		D/M	11/18	11/20	4/15	11/18	4/13	4/13	4/12	4/11	4/10	4/ 9	4/ 4	3/31	3/26	3/21	
				.1MM	284	355	491	659	810	960	1081	1198	1289	1431	1565	1630	1690	1836	1938
1902	273	100		D/M	3/29	12/14	3/27	3/26	3/26	3/25	3/24	3/22	3/21	3/21	3/16	3/11	3/ 7	3/ 1	
				.1MM	361	535	609	720	811	896	967	1084	1185	1276	1321	1352	1359	1450	1691
1903	273	100		D/M	2/28	3/23	3/19	3/20	3/19	3/19	3/19	3/19	3/19	3/19	3/19	3/14	3/ 8	3/ 4	
				.1MM	196	285	404	520	677	770	821	917	988	1033	1098	1159	1280	1381	1891
1904	274	100		D/M	4/10	4/10	4/ 9	4/ 8	4/26	4/25	4/25	4/24	4/23	4/22	4/17	4/10	4/ 7	4/ 2	
				.1MM	319	511	602	708	838	1010	1143	1270	1387	1458	1478	1559	1644	1735	2466
1905	273	100		D/M	4/ 4	3/18	4/ 9	4/10	4/ 9	4/ 9	4/ 9	4/ 4	4/ 4	4/ 4	3/30	3/25	3/23	3/18	
				.1MM	146	273	349	455	577	638	709	786	877	1014	1099	1160	1231	1282	1989
1906	273	100		D/M	3/27	3/27	3/26	3/25	3/25	3/25	3/25	3/25	3/25	3/25	12/22	12/18	12/29	12/26	
				.1MM	285	345	385	405	405	405	405	405	405	405	405	405	406	411	289
1907	273	100		D/M	3/24	3/23	3/28	3/27	3/24	3/24	3/24	3/23	3/22	3/22	3/22	3/23	3/22	3/17	
				.1MM	197	268	350	426	524	630	737	808	869	914	934	949	969	1040	1098
1908	274	100		D/M	3/16	4/27	4/27	4/26	4/25	4/24	4/23	4/23	4/23	4/22	4/16	4/12	4/ 7	4/ 2	
				.1MM	307	411	564	713	865	1012	1133	1239	1328	1403	1466	1555	1630	1701	2389

1909	273	100	D/M	5/ 1	4/13	4/12	4/13	4/13	4/14	4/13	4/12	4/13	4/13	4/ 6	4/ 3	3/29	3/24	
			.1MM	370	505	606	706	807	1040	1202	1303	1403	1525	1626	1646	1646	1716	1765
1910	273	100	D/M	11/23	1/21	1/21	3/21	3/20	3/19	3/19	3/19	3/19	3/19	3/11	3/ 5	2/28	2/27	
			.1MM	279	340	360	385	487	558	594	594	594	594	594	608	659	695	884
1911	273	100	D/M	4/14	4/14	4/13	4/12	4/11	4/10	4/14	4/13	4/13	4/13	4/ 9	4/ 5	4/ 5	3/25	
			.1MM	252	366	477	558	603	668	766	877	968	1059	1165	1246	1291	1356	1352
1912	274	100	D/M	4/16	4/16	4/16	4/16	4/16	4/16	4/16	4/15	4/13	4/12	4/ 7	4/ 3	3/29	3/25	
			.1MM	279	456	547	682	798	909	971	1016	1106	1191	1253	1313	1429	1540	1665
1913	273	100	D/M	3/24	3/24	3/24	3/21	3/21	3/20	3/19	3/18	3/18	3/18	3/21	3/20	3/18	3/13	
			.1MM	277	442	490	535	700	771	846	897	945	945	1021	1173	1221	1251	1311
1914	273	100	D/M	4/17	4/16	4/15	4/14	3/29	4/12	3/27	3/26	3/25	4/ 8	3/25	3/29	3/24	3/19	
			.1MM	145	249	310	383	391	444	501	582	607	646	676	696	734	771	1142
1915	273	100	D/M	11/16	11/16	11/15	4/ 4	4/ 4	4/ 3	4/ 2	4/ 1	3/31	3/31	3/24	3/20	3/15	3/10	
			.1MM	351	366	376	429	480	531	576	627	672	672	672	702	737	797	1129
1916	274	100	D/M	4/23	4/23	4/23	4/23	4/23	4/23	4/22	4/21	4/20	4/19	4/14	4/ 9	4/ 4	3/30	
			.1MM	248	458	635	807	1004	1166	1267	1348	1465	1566	1711	1863	1980	2076	2757
1917	273	100	D/M	4/21	4/20	4/19	4/18	4/18	4/17	4/17	4/17	4/17	4/17	4/14	4/10	4/ 1	3/30	
			.1MM	258	433	590	745	892	1019	1104	1175	1276	1375	1494	1613	1674	1735	2415
1918	273	100	D/M	4/15	4/14	4/14	4/13	4/13	4/12	4/11	4/10	4/ 8	4/ 7	4/ 2	3/29	3/24	3/19	
			.1MM	208	385	547	699	809	905	976	1031	1091	1228	1370	1480	1551	1591	2443
1919	273	100	D/M	4/11	4/10	4/10	4/10	4/10	4/ 9	4/ 7	4/ 7	4/ 6	4/ 5	4/ 3	3/26	3/21	3/16	
			.1MM	203	365	471	606	697	778	873	964	1045	1110	1135	1186	1196	1196	1396
1920	274	100	D/M	4/ 6	3/26	3/25	3/24	3/24	3/25	3/24	3/23	3/23	3/23	3/23	3/18	3/13	3/11	
			.1MM	206	314	476	607	710	853	984	1065	1130	1190	1245	1320	1415	1546	1389
1921	273	100	D/M	3/20	3/20	3/19	3/19	3/16	3/16	3/15	3/ 9	3/ 8	3/12	3/ 7	3/ 2	2/28	2/23	
			.1MM	290	408	428	428	513	631	646	683	734	827	898	998	1116	1167	590
1922	273	100	D/M	12/18	4/ 7	4/ 6	4/ 5	4/ 5	4/ 3	4/ 3	4/ 2	4/ 1	3/31	3/26	3/21	3/16	3/11	
			.1MM	308	380	497	588	653	718	783	844	854	859	859	887	940	1005	1022
1923	273	100	D/M	4/21	4/21	4/20	4/20	4/20	4/20	4/20	4/19	4/18	4/17	4/12	4/ 7	4/ 3	4/ 2	
			.1MM	248	484	702	887	1018	1155	1332	1413	1448	1483	1523	1558	1582	1597	1873
1924	274	100	D/M	4/ 8	4/19	4/18	4/17	4/16	4/15	4/15	4/13	4/13	4/11	4/ 6	4/ 3	3/28	3/23	
			.1MM	299	470	581	662	747	917	980	1017	1080	1158	1233	1369	1562	1698	1757
1925	273	100	D/M	2/11	2/11	3/26	3/25	3/25	3/24	3/23	3/22	3/21	3/19	3/16	3/10	3/ 5	3/ 2	
			.1MM	289	398	518	619	717	802	807	872	956	1081	1179	1219	1249	1254	860
1926	273	100	D/M	12/ 6	5/ 2	5/ 1	4/30	4/29	4/28	4/27	4/27	4/25	4/24	4/20	4/15	4/10	4/ 5	
			.1MM	312	504	646	763	857	1034	1130	1196	1319	1446	1588	1755	1872	1938	1982
1927	273	100	D/M	11/16	11/15	11/15	4/ 4	3/14	3/13	3/12	3/11	3/11	4/ 2	3/28	3/25	3/14	3/13	
			.1MM	342	393	393	457	550	634	699	764	815	866	911	974	1059	1124	1938
1928	274	100	D/M	11/22	11/22	4/ 7	4/ 6	4/ 5	4/ 4	4/ 3	4/ 2	4/ 2	3/31	3/26	3/21	3/16	3/13	
			.1MM	284	380	464	581	705	786	837	852	852	862	877	899	1024	1088	1156
1929	273	100	D/M	1/ 6	1/18	3/14	3/13	3/12	3/14	3/13	3/14	3/13	3/12	3/13	3/12	3/ 4	2/27	
			.1MM	329	355	355	420	475	487	552	630	695	750	795	872	937	992	624
1930	273	100	D/M	1/ 8	1/ 7	1/ 6	1/ 6	1/ 6	3/31	1/ 2	1/ 2	1/ 2	1/ 2	3/25	3/20	2/18	3/ 7	
			.1MM	267	345	400	400	400	415	546	546	546	546	647	662	662	662	1003
1931	273	100	D/M	3/29	3/29	3/27	3/27	3/27	3/29	3/29	3/28	3/27	3/27	3/21	3/18	3/15	3/10	
			.1MM	187	252	333	398	459	542	641	706	787	848	919	980	1059	1134	1293
1932	274	100	D/M	2/12	2/12	4/11	4/10	4/ 9	4/ 8	4/ 7	4/ 6	4/ 5	4/ 7	4/ 7	4/ 2	3/27	3/26	
			.1MM	277	277	353	428	575	636	671	704	714	726	790	887	1012	1073	751
1933	273	100	D/M	12/ 7	3/31	3/31	3/31	3/31	4/ 1	3/31	3/31	3/31	3/30	3/25	3/20	3/17	3/17	
			.1MM	199	218	294	369	414	514	610	683	754	789	824	854	905	912	610
1934	273	100	D/M	12/31	12/31	12/31	4/ 9	4/11	4/10	4/10	4/10	4/10	4/10	4/10	4/ 5	3/31	3/26	
			.1MM	732	732	732	750	828	1000	1132	1253	1390	1517	1592	1653	1746	1918	1638
1935	273	100	D/M	4/12	4/11	4/10	4/ 9	4/ 8	4/ 7	4/ 6	4/ 5	4/ 4	4/ 3	3/29	3/24	3/19	3/16	
			.1MM	152	273	394	511	596	647	667	707	737	777	827	857	902	937	1286
1936	274	100	D/M	3/12	4/11	3/28	3/28	3/27	3/26	3/25	3/24	3/22	3/22	3/17	3/12	3/18	3/16	

			.1MM	251	326	389	548	629	725	846	876	950	1109	1158	1236	1360	1519	1267
1937	273	100	D/M	2/21	4/ 5	4/ 5	4/ 4	4/ 3	4/ 3	4/ 1	4/ 1	3/31	3/31	2/ 8	2/ 8	12/ 6	12/ 6	
			.1MM	276	347	412	447	487	512	542	567	577	577	597	597	597	686	356
1938	273	100	D/M	3/23	3/25	3/23	3/23	3/22	3/21	3/20	3/19	3/23	3/17	3/17	3/16	3/16	3/13	
			.1MM	182	261	337	494	559	640	777	815	900	972	1046	1183	1228	1266	1220
1939	273	100	D/M	2/19	2/18	4/26	4/26	4/26	4/26	4/25	4/23	4/23	4/22	4/17	4/13	4/ 8	4/ 1	
			.1MM	310	345	363	484	585	696	797	881	992	1063	1151	1242	1353	1398	1370
1940	274	100	D/M	12/19	4/18	4/18	4/16	4/16	4/16	4/16	4/16	4/18	4/18	4/15	4/10	4/ 5	3/31	
			.1MM	193	344	425	562	643	732	795	856	937	1048	1165	1304	1385	1522	1659
1941	273	100	D/M	12/29	12/28	12/27	12/26	4/ 9	4/ 8	4/ 7	4/ 6	4/ 5	4/ 4	3/31	3/25	3/21	3/15	
			.1MM	355	469	560	626	744	861	952	1053	1124	1185	1256	1291	1331	1346	1606
1942	273	100	D/M	12/24	12/23	12/23	12/23	12/23	12/19	12/18	12/18	12/16	12/23	3/16	3/11	3/ 6	3/ 1	
			.1MM	365	545	545	545	545	550	585	585	610	783	823	823	823	842	760
1943	272	99	D/M	3/16	3/15	3/15	4/22	4/23	4/22	4/23	4/23	4/22	4/23	4/21	4/16	4/11	4/ 8	
			.1MM	272	513	543	666	779	916	1053	1218	1355	1460	1608	1745	1872	1941	2057
1944	274	100	D/M	4/10	4/10	4/10	4/ 9	4/ 8	4/ 7	4/ 7	4/ 7	4/ 8	4/ 7	4/ 2	3/25	3/23	3/18	
			.1MM	147	228	289	344	384	429	454	474	505	550	561	585	605	630	580
1945	273	100	D/M	3/28	3/28	3/26	3/26	3/25	3/24	3/23	3/22	3/21	3/20	3/15	3/11	3/ 5	3/ 1	
			.1MM	234	406	599	771	913	1050	1151	1179	1275	1358	1468	1585	1704	1759	1768
1946	273	100	D/M	1/ 9	3/13	3/ 6	3/13	3/13	3/13	3/12	3/12	3/ 6	3/ 6	3/ 4	3/ 1	3/ 1	3/ 1	
			.1MM	206	255	353	401	482	554	609	609	686	751	832	913	985	985	856
1947	273	100	D/M	4/30	4/29	4/30	4/29	4/29	4/28	4/26	4/23	4/23	4/23	4/20	4/14	4/ 9	4/ 4	
			.1MM	386	538	642	794	915	976	1050	1186	1264	1442	1563	1634	1665	1719	1905
1948	274	100	D/M	3/16	3/16	3/15	3/16	3/16	3/16	3/16	3/16	3/16	3/16	3/16	3/15	3/10	3/10	
			.1MM	360	438	448	590	671	831	892	951	996	1097	1107	1299	1436	1446	974
1949	273	100	D/M	12/29	1/18	12/29	3/22	3/22	3/22	3/22	3/22	3/22	3/22	3/22	3/22	3/13	3/ 5	
			.1MM	152	217	284	303	374	473	524	597	648	688	728	813	898	917	725
1950	273	100	D/M	4/ 3	12/20	12/20	12/18	12/18	12/17	12/17	12/17	12/18	12/17	12/12	3/29	3/24	3/19	
			.1MM	245	474	568	689	783	788	788	788	923	928	928	971	971	971	1080
1951	260	95	D/M	4/12	4/12	4/10	4/ 9	4/ 9	4/10	4/ 9	4/ 9	3/27	3/26	3/21	3/16	3/11	3/ 6	
			.1MM	327	453	567	731	857	939	1103	1194	753	753	753	771	801	801	1148
1952	274	100	D/M	4/ 5	4/ 4	4/ 3	4/ 2	4/ 1	3/31	4/ 5	4/ 4	4/ 3	4/ 5	4/ 2	3/28	3/23	3/18	
			.1MM	267	356	427	508	563	638	779	868	939	1052	1141	1221	1310	1381	1430
1953	273	100	D/M	2/20	2/20	1/15	1/15	1/13	1/10	1/10	1/10	1/10	1/10	1/ 3	1/ 3	12/24	1/10	
			.1MM	116	184	229	229	254	287	332	411	411	411	411	411	411	411	185
1954	271	99	D/M	4/ 6	4/ 6	4/ 6	4/ 6	4/ 6	4/ 6	4/ 6	4/ 5	4/ 5	4/ 5	4/ 1	4/ 1	4/ 1	4/ 1	
			.1MM	291	476	541	592	772	919	990	1041	1075	1075	1075	1095	1120	1120	1028
1955	273	100	D/M	4/14	4/14	4/13	4/12	4/10	4/10	4/ 9	4/ 9	4/ 8	4/ 6	4/ 1	3/29	3/22	3/20	
			.1MM	229	389	510	606	719	879	990	1034	1064	1159	1260	1345	1396	1481	1646
1956	274	100	D/M	2/25	4/ 5	4/ 5	4/ 5	4/ 5	4/ 5	4/ 5	4/ 4	4/ 3	4/ 2	3/31	3/23	3/21	3/15	
			.1MM	155	248	349	389	470	541	626	666	696	731	771	801	801	801	764
1957	273	100	D/M	1/22	1/21	1/20	1/20	1/20	3/11	3/11	3/ 9	3/ 8	3/13	3/ 8	2/25	2/25	2/22	
			.1MM	296	347	367	367	367	369	369	399	424	492	553	571	573	601	624
1958	273	100	D/M	11/28	4/ 3	4/ 2	4/ 1	3/31	3/30	3/29	3/28	3/27	3/26	3/21	3/16	3/12	3/12	
			.1MM	182	217	313	414	515	616	687	758	823	878	929	990	1051	1096	1248
1959	273	100	D/M	4/16	4/15	4/14	4/13	4/12	4/11	4/10	4/ 9	4/ 8	4/ 7	4/ 2	3/29	3/24	3/19	
			.1MM	153	300	417	508	559	624	705	766	908	973	1024	1115	1158	1226	1750
1960	274	100	D/M	4/18	4/17	4/16	4/15	4/14	4/14	4/14	4/15	4/17	4/16	4/12	4/ 7	4/ 1	3/28	
			.1MM	317	520	657	832	946	1045	1133	1281	1471	1608	1783	1897	1965	2063	2049
1961	273	100	D/M	2/25	2/24	2/23	2/22	2/22	2/22	2/22	2/18	2/18	2/18	2/18	2/13	2/ 8	2/ 8	
			.1MM	261	304	423	478	493	528	548	684	699	734	754	759	814	889	647
1962	273	100	D/M	3/30	3/29	3/28	3/27	3/26	3/25	3/24	3/23	3/22	3/21	3/16	3/11	3/ 7	3/ 5	
			.1MM	121	242	338	419	504	579	650	675	730	778	813	853	868	908	1076
1963	273	100	D/M	3/30	3/29	3/29	3/27	3/26	3/25	3/24	3/24	3/23	3/21	3/17	3/13	3/ 8	3/ 3	
			.1MM	142	216	261	320	386	460	511	556	571	586	631	631	631	631	1319

1964	274	100	D/M	1/ 9	3/ 5	3/ 4	3/ 3	3/ 2	3/ 1	3/ 1	3/ 1	3/ 1	3/ 1	1/18	1/ 6	1/ 2	1/ 9	
			.1MM	175	245	300	355	390	400	400	400	400	400	400	400	400	400	538
1965	273	100	D/M	2/ 7	12/24	12/23	12/22	2/ 7	2/ 7	2/ 7	3/ 2	3/ 1	3/ 1	2/25	2/25	2/ 7	2/ 7	
			.1MM	187	296	357	372	400	454	454	473	493	503	503	537	567	577	622
1966	273	100	D/M	2/28	2/28	2/27	2/27	2/26	2/26	2/26	2/26	12/23	12/22	12/22	2/10	2/ 9	11/25	
			.1MM	223	296	351	386	416	416	416	416	464	474	474	474	474	474	695
1967	273	100	D/M	4/ 2	4/ 1	3/31	3/30	3/29	3/28	3/27	3/26	3/25	3/24	3/20	3/14	3/10	3/ 6	
			.1MM	185	347	418	443	514	615	769	804	885	920	920	920	920	945	1268
1968	274	100	D/M	11/22	3/20	3/19	3/17	3/17	3/17	3/16	3/16	3/16	3/16	3/ 9	3/ 5	2/27	2/27	
			.1MM	180	248	339	461	552	635	703	703	703	703	703	746	829	890	869
1969	273	100	D/M	1/30	1/29	3/23	3/22	3/21	3/20	3/19	3/18	1/22	1/22	1/18	1/16	3/ 2	2/28	
			.1MM	216	285	327	367	402	475	510	525	545	560	575	590	608	623	764
1970	273	100	D/M	12/10	12/10	12/10	12/ 9	12/ 8	12/ 7	4/ 7	4/ 6	4/ 6	4/ 4	3/31	3/25	3/20	3/17	
			.1MM	304	349	374	399	417	422	458	493	493	518	543	563	598	618	1372
1971	273	100	D/M	4/12	4/12	4/11	4/10	4/ 9	4/11	4/11	4/10	4/ 9	4/ 8	4/ 1	3/29	3/27	3/20	
			.1MM	142	235	320	365	405	485	550	595	635	655	700	751	771	793	3235
1972	274	100	D/M	12/10	12/ 9	12/ 9	12/ 9	12/ 8	4/14	4/14	4/13	4/12	4/11	4/ 9	4/ 1	3/29	3/22	
			.1MM	192	342	407	468	471	552	689	764	819	874	914	934	934	934	1676
1973	273	100	D/M	3/17	3/16	3/15	3/14	3/13	3/12	3/11	3/10	3/ 9	3/ 8	3/ 3	3/ 3	3/ 3	3/ 3	
			.1MM	271	367	473	521	566	683	825	878	918	1019	1104	1132	1182	1237	1022
1974	273	100	D/M	3/ 4	3/ 3	3/ 4	3/ 4	3/ 3	3/ 3	3/ 1	2/28	2/27	2/27	2/21	2/21	2/21	3/ 3	
			.1MM	461	536	597	693	768	768	773	834	844	844	844	849	864	960	1171
1975	273	100	D/M	3/19	3/18	3/17	3/16	4/14	4/13	4/12	4/11	4/10	4/ 9	3/11	3/11	3/12	3/19	
			.1MM	337	435	490	551	630	665	690	710	735	760	785	785	830	860	1037
1976	274	100	D/M	4/ 1	4/ 1	4/ 1	4/ 1	3/28	3/28	3/26	3/25	3/25	3/25	3/21	3/20	3/11	3/ 5	
			.1MM	347	428	502	567	640	721	797	888	969	1043	1108	1159	1201	1272	1423
1977	273	100	D/M	3/13	3/13	3/12	3/10	3/10	3/ 9	3/ 9	3/ 9	3/ 8	3/ 7	3/ 2	2/24	2/24	2/24	
			.1MM	215	317	416	522	624	715	786	867	902	922	947	995	1063	1088	1182
1978	273	100	D/M	1/25	1/25	1/25	4/10	4/10	4/10	4/ 9	4/ 4	4/ 4	4/ 4	3/31	3/27	3/21	3/14	
			.1MM	345	438	438	509	559	609	636	661	731	827	877	927	967	1021	1642
1979	273	100	D/M	12/31	12/31	3/22	3/21	3/20	3/20	3/19	3/18	3/17	3/17	3/13	3/ 6	3/ 2	2/24	
			.1MM	257	326	453	553	649	723	791	850	872	872	872	948	1022	1022	1334
1980	274	100	D/M	3/22	3/21	3/21	3/21	3/21	3/20	3/21	3/18	3/19	3/18	3/17	3/ 8	3/ 5	3/ 5	
			.1MM	454	575	634	711	752	774	817	841	848	906	908	908	908	908	420
1981	273	100	D/M	2/11	2/10	2/19	2/18	2/17	2/16	2/15	2/15	2/15	2/10	2/ 8	2/ 2	2/ 1	1/25	
			.1MM	157	282	303	357	407	466	493	493	493	613	712	775	775	829	900
1982	273	100	D/M	3/31	3/30	3/30	3/31	3/30	3/29	3/29	3/29	3/24	3/25	3/20	3/13	3/10	3/13	
			.1MM	232	308	353	449	525	570	570	570	596	704	768	804	849	853	998
1983	273	100	D/M	2/ 2	2/ 2	2/ 2	1/31	1/31	1/30	1/30	1/30	1/30	1/30	1/24	12/23	1/10	1/10	
			.1MM	291	359	381	387	409	418	418	418	418	418	436	457	457	457	160
1984	274	100	D/M	4/ 5	4/ 4	4/ 3	4/ 2	4/ 1	3/31	3/30	3/29	3/28	3/27	3/22	3/17	3/15	3/15	
			.1MM	279	372	462	547	621	677	727	759	801	805	829	839	853	916	836
1985	273	100	D/M	2/23	3/11	3/11	3/10	3/ 8	3/ 8	3/ 8	3/ 7	3/ 7	3/ 5	2/28	2/21	2/21	2/21	
			.1MM	239	352	406	459	506	560	606	626	626	636	636	641	684	730	886
1986	273	100	D/M	3/10	1/19	1/18	1/17	1/18	1/17	1/17	1/17	3/10	3/10	3/ 9	3/ 1	3/ 1	2/18	
			.1MM	173	278	319	363	368	412	412	412	439	558	565	565	565	565	522
1987	273	100	D/M	12/24	12/24	12/23	12/22	12/22	12/20	12/19	3/14	2/28	2/27	3/ 7	2/28	2/26	2/21	
			.1MM	154	284	325	343	352	356	377	398	452	491	493	493	502	559	720
1988	274	100	D/M	3/26	3/25	3/24	3/24	3/24	3/24	3/24	3/19	3/18	3/17	3/14	3/ 7	3/ 7	3/ 7	
			.1MM	222	297	372	372	372	372	372	382	396	422	454	454	462	462	386
1989	273	100	D/M	10/24	3/27	3/26	3/25	3/24	3/23	3/22	3/22	3/22	3/22	3/14	3/10	3/ 4	3/ 4	
			.1MM	185	263	345	417	468	505	509	509	509	509	509	509	536	649	412
1990	273	100	D/M	1/17	2/21	3/11	3/10	3/11	3/10	3/ 9	3/ 9	3/ 9	3/ 8	3/ 8	3/ 2	1/25	2/21	1/24	
			.1MM	153	201	269	326	389	446	494	540	564	564	564	564	564	564	723
1991	273	100	D/M	12/29	12/21	12/21	12/21	12/18	12/18	12/17	12/17	12/21	12/21	12/17	3/ 1	3/ 1	2/19	

			.1MM	245	324	400	400	423	499	551	551	688	710	710	787	839	861	669
1992	274	100	D/M	3/27	3/27	3/26	3/26	3/27	3/27	3/26	3/26	3/26	3/26	3/27	3/26	3/18	3/18	
			.1MM	429	535	581	591	651	711	757	787	816	840	881	936	1026	1080	1173
1993	273	100	D/M	1/ 4	4/ 9	4/ 8	4/ 7	4/ 6	4/ 5	4/ 4	4/ 3	4/ 2	4/ 2	3/27	3/22	3/21	3/16	
			.1MM	366	513	639	761	857	957	1030	1060	1073	1073	1105	1230	1356	1476	1386
1994	273	100	D/M	1/28	1/27	3/21	3/21	3/20	3/19	4/ 2	4/ 2	4/ 1	3/31	3/21	3/21	3/19	3/13	
			.1MM	173	229	300	359	380	402	448	557	581	641	683	726	757	767	1273
1995	273	100	D/M	1/15	1/15	1/13	1/13	1/12	1/12	1/12	1/12	1/12	1/12	1/12	1/12	1/12	1/12	
			.1MM	487	554	622	689	749	764	767	802	860	873	873	873	873	873	335
1996	274	100	D/M	2/20	2/20	1/17	2/20	2/20	2/20	2/20	2/20	2/20	2/20	2/20	2/ 8	2/20	2/20	
			.1MM	292	355	383	549	647	663	663	685	685	685	685	717	717	717	1405
1997	273	100	D/M	2/21	2/20	2/19	2/18	2/18	4/ 1	4/ 1	3/31	3/29	3/28	3/24	3/19	3/14	3/10	
			.1MM	396	533	642	704	710	759	805	825	913	989	1090	1136	1190	1236	1098

	1 DAY	2 DAY	3 DAY	4 DAY	5 DAY	6 DAY	7 DAY	8 DAY	9 DAY	10 DAY	15 DAY	20 DAY	25 DAY	30 DAY
MEAN EXTREME(MM)	26.2	36.8	44.8	53.1	60.8	68.6	75.2	80.5	85.6	91.2	115.7	133.1	147.5	160.3
STD. DEV.(MM)	9.1	10.2	11.5	14.4	17.5	20.7	23.4	25.8	28.2	30.6	43.5	50.0	56.2	62.4
YEARS ANALYSED	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0

** NOTE ** MEAN AND STANDARD DEVIATION HAVE BEEN ADJUSTED TO ACCOUNT FOR ONE OBSERVATION PER DAY.

NOTE ** VALUE IN FLAG INDICATES YEAR NOT INCLUDED IN ANALYSIS BASED ON % DAYS OPERATIONAL (<90.0%)

ATMOSPHERIC ENVIRONMENT SERVICE
RAIN+SNOWMELT INTENSITY, DURATION, FREQUENCY VALUES
PREPARED BY THE HYDROMETEOROLOGY DIVISION, CANADIAN CLIMATE CENTRE

STATION : Ottawa CDA, Ontario STATION NUMBER 6105976

LATITUDE: 4523 LONGITUDE: 7543 ELEVATION(M): 79

SNOWMELT MODEL 4

CRITICAL PERIOD : 1ST OF MONTH 10 TO THE END OF MONTH 5 NOTE : MODIFIED GUMBEL 12/82

RETURN PERIOD VALUES (MM) WITH 50% CONFIDENCE LIMITS

RETURN PERIOD YEARS	1 DAY	2 DAY	3 DAY	4 DAY	5 DAY
2	24.75+/- .55	35.14+/- .61	42.94+/- .69	50.74+/- .86	57.97+/- 1.05
5	32.80+/- .92	44.16+/- 1.03	53.07+/- 1.16	63.44+/- 1.46	73.39+/- 1.77
10	38.14+/- 1.25	50.15+/- 1.40	59.79+/- 1.57	71.87+/- 1.97	83.62+/- 2.39
25	44.88+/- 1.68	57.70+/- 1.88	68.27+/- 2.11	82.50+/- 2.65	96.53+/- 3.22
50	49.87+/- 2.01	63.29+/- 2.25	74.55+/- 2.53	90.38+/- 3.17	106.10+/- 3.85
100	54.84+/- 2.34	68.86+/- 2.62	80.80+/- 2.95	98.22+/- 3.70	115.61+/- 4.49

RETURN PERIOD YEARS	6 DAY	7 DAY	8 DAY	9 DAY	10 DAY
2	65.21+/- 1.24	71.37+/- 1.41	76.30+/- 1.55	81.00+/- 1.69	86.18+/- 1.84
5	83.47+/- 2.09	92.06+/- 2.37	99.04+/- 2.61	105.90+/- 2.85	113.24+/- 3.10
10	95.59+/- 2.83	105.78+/- 3.20	114.14+/- 3.52	122.42+/- 3.86	131.20+/- 4.19
25	110.88+/- 3.81	123.10+/- 4.32	133.17+/- 4.75	143.26+/- 5.20	153.84+/- 5.65
50	122.22+/- 4.56	135.94+/- 5.17	147.29+/- 5.68	158.72+/- 6.22	170.63+/- 6.76
100	133.49+/- 5.31	148.70+/- 6.02	161.32+/- 6.62	174.09+/- 7.24	187.33+/- 7.87

RETURN PERIOD YEARS	15 DAY	20 DAY	25 DAY	30 DAY
2	108.60+/- 2.61	124.92+/- 3.00	138.33+/- 3.38	150.11+/- 3.75
5	147.00+/- 4.40	169.05+/- 5.06	187.93+/- 5.68	205.20+/- 6.31
10	172.49+/- 5.95	198.35+/- 6.83	220.85+/- 7.68	241.76+/- 8.53
25	204.63+/- 8.02	235.29+/- 9.21	262.36+/-10.35	287.86+/-11.50
50	228.46+/- 9.59	262.68+/-11.02	293.14+/-12.39	322.05+/-13.76
100	252.16+/-11.17	289.92+/-12.84	323.76+/-14.43	356.05+/-16.03

** WARNING ** : THE 1-DAY 100-YEAR RETURN PERIOD EVENT IS EXCEEDED BY THE 1-DAY EVENT IN 1934
** WARNING ** : THE 2-DAY 100-YEAR RETURN PERIOD EVENT IS EXCEEDED BY THE 2-DAY EVENT IN 1934

ATMOSPHERIC ENVIRONMENT SERVICE
RAIN+SNOWMELT INTENSITY, DURATION, FREQUENCY VALUES
PREPARED BY THE HYDROMETEOROLOGY DIVISION, CANADIAN CLIMATE CENTRE

STATION : Ottawa CDA, Ontario STATION NUMBER 6105976

LATITUDE: 4523 LONGITUDE: 7543 ELEVATION(M): 79

SNOWMELT MODEL 5

CRITICAL PERIOD : 1ST OF MONTH 10 TO THE END OF MONTH 5 NOTE : MODIFIED GUMBEL 12/82

YR	TOTAL DAYS	% VALID	FLAG	START MAX	1 DAY	2 DAY	3 DAY	4 DAY	5 DAY	6 DAY	7 DAY	8 DAY	9 DAY	10 DAY	15 DAY	20 DAY	25 DAY	30 DAY	MAX SNPK
1890	242	88	**	D/M	4/ 4	4/ 3	4/ 3	4/ 4	4/ 3	4/ 3	4/ 3	4/ 3	4/ 3	4/ 3	3/26	3/21	3/14	3/12	
				.1MM	341	452	462	703	814	814	814	814	814	814	814	814	918	918	
1891	273	100		D/M	3/ 9	4/10	4/ 9	4/ 9	4/ 9	3/29	3/28	3/28	3/21	3/21	3/28	3/23	3/21	3/13	
				.1MM	316	601	752	783	783	867	907	907	987	1058	1284	1325	1498	1629	1870
1892	274	100		D/M	4/ 6	4/ 5	4/ 4	4/ 4	4/ 4	4/ 3	4/ 2	4/ 2	4/ 2	4/ 2	3/29	3/29	3/29	3/10	
				.1MM	405	775	1069	1314	1568	1807	1878	1878	1878	1878	1949	1949	1949	1949	1750
1893	273	100		D/M	4/13	4/12	4/11	4/10	4/10	4/ 8	4/ 8	4/ 8	4/ 8	4/ 8	3/31	3/31	3/24	3/21	
				.1MM	442	736	948	1050	1075	1386	1411	1411	1411	1533	1552	1552	1625	1724	1832
1894	273	100		D/M	4/ 4	3/ 5	3/ 5	3/ 4	3/ 3	3/ 2	3/ 2	4/ 4	4/ 4	3/31	3/ 5	3/ 2	3/18	3/ 6	
				.1MM	285	478	663	672	681	792	792	834	834	906	1017	1111	1111	1120	2153
1895	273	100		D/M	4/14	4/ 8	4/14	4/14	4/13	4/12	4/12	4/ 8	4/ 8	4/ 8	4/ 5	4/ 2	3/25	3/25	
				.1MM	342	615	775	1060	1252	1406	1470	1513	1736	2021	2179	2243	2283	2343	1813
1896	274	100		D/M	4/16	4/15	4/14	4/13	4/12	4/11	4/10	4/ 9	4/ 8	4/ 8	4/ 3	3/31	3/27	3/27	
				.1MM	481	814	1199	1401	1572	1692	1743	1803	1823	1823	1823	1823	1823	1832	1921
1897	273	100		D/M	3/10	4/ 4	4/ 4	4/ 2	4/ 1	3/31	3/30	3/29	3/29	3/27	3/22	3/19	3/19	3/ 9	
				.1MM	264	471	471	653	764	875	997	1048	1048	1077	1077	1077	1108	1199	1163
1898	273	100		D/M	12/11	3/12	3/11	3/10	3/ 9	3/ 9	3/11	3/10	3/11	3/11	3/ 9	3/ 9	3/ 9	3/ 9	
				.1MM	369	619	864	986	1068	1068	1199	1321	1429	1596	1718	1800	1800	1800	1867
1899	242	88	**	D/M	4/18	4/18	4/18	4/17	4/16	4/15	4/14	4/13	4/12	4/11	4/ 7	4/ 7	3/29	3/23	
				.1MM	305	599	801	963	1034	1205	1400	1562	1718	1728	1728	1767	1969	2028	
1900	273	100		D/M	2/13	4/ 6	4/ 5	4/12	4/11	4/11	4/ 2	4/ 6	4/ 5	4/ 6	4/ 1	3/29	3/29	3/20	
				.1MM	334	425	556	673	844	879	921	1073	1204	1371	1502	1537	1674	1765	1703
1901	273	100		D/M	11/21	4/13	4/12	4/11	4/10	4/ 9	4/ 8	4/ 7	4/ 6	4/ 5	4/ 1	3/26	3/21	3/21	
				.1MM	364	639	851	1044	1257	1450	1660	1760	1887	2046	2345	2520	2600	2640	2379
1902	273	100		D/M	12/14	12/14	3/21	3/21	3/21	3/21	3/21	3/21	3/20	3/20	3/12	3/11	3/ 1	2/28	
				.1MM	330	622	699	790	910	1072	1249	1366	1376	1376	1393	1510	1615	1615	1983
1903	273	100		D/M	3/19	3/19	3/19	3/19	3/19	3/19	3/18	3/17	3/17	3/17	3/11	3/ 7	2/28	2/28	
				.1MM	330	653	891	1013	1265	1429	1521	1637	1728	1822	1822	1822	1862	1976	2178
1904	274	100		D/M	4/10	4/10	4/ 9	4/ 8	4/ 8	4/ 7	4/ 7	4/ 6	4/ 6	4/ 2	3/31	4/ 6	4/ 1	3/27	
				.1MM	436	776	938	1121	1263	1385	1484	1566	1566	1654	1796	1895	1946	2027	2725
1905	273	100		D/M	3/29	3/29	3/28	3/28	3/27	3/25	3/25	3/29	3/29	3/28	3/27	3/24	3/18	3/18	
				.1MM	263	486	628	739	838	902	1013	1161	1315	1457	1556	1618	1739	1858	2039
1906	273	100		D/M	3/27	3/27	3/27	3/27	2/21	2/21	2/21	2/21	2/21	2/21	2/21	2/21	12/30	12/27	
				.1MM	356	405	405	405	422	422	422	422	422	422	422	422	422	422	448
1907	273	100		D/M	3/28	3/28	3/28	3/27	3/26	3/24	3/23	3/23	3/22	3/22	3/22	3/23	3/22	3/13	
				.1MM	249	447	615	711	811	875	1057	1225	1327	1347	1347	1347	1398	1433	1239
1908	274	100		D/M	4/26	4/25	4/24	4/23	4/23	4/22	4/21	4/20	4/19	4/18	4/14	4/ 8	4/ 3	3/29	

			.1MM	359	684	978	1241	1456	1485	1516	1719	1870	1921	1957	2172	2232	2292	2590
1909	273	100	D/M	4/14	4/13	4/13	4/13	4/12	4/12	4/12	4/ 7	4/ 6	4/ 6	4/ 3	3/30	3/25	4/ 3	
			.1MM	490	917	1048	1250	1381	1409	1409	1430	1728	1859	2061	2143	2234	2283	2069
1910	273	100	D/M	1/22	1/21	3/22	3/21	3/20	3/19	3/19	3/19	3/19	3/19	3/13	3/ 5	2/28	2/27	
			.1MM	289	391	541	562	765	785	785	785	785	785	785	820	820	820	1070
1911	273	100	D/M	4/14	4/13	4/13	4/12	4/12	4/13	4/14	4/13	4/13	4/12	4/ 7	4/ 5	3/27	3/27	
			.1MM	460	672	877	959	990	1061	1307	1519	1654	1736	1736	1836	1927	1927	1952
1912	274	100	D/M	4/16	4/16	4/ 6	4/ 6	4/13	4/12	4/11	4/ 6	4/ 8	4/ 7	4/ 6	3/29	3/29	3/19	
			.1MM	497	704	842	842	968	1099	1120	1125	1309	1572	1779	1962	1962	1962	1809
1913	273	100	D/M	3/24	3/24	3/19	3/21	3/21	3/19	3/19	3/19	3/19	3/19	3/19	3/19	3/13	3/13	
			.1MM	383	569	730	749	935	1113	1299	1342	1342	1342	1532	1718	1780	1809	1787
1914	273	100	D/M	4/17	4/16	4/16	4/15	4/14	4/14	4/12	4/11	4/10	4/10	4/ 5	3/30	3/26	3/26	
			.1MM	285	491	696	798	857	857	898	989	999	999	1080	1080	1080	1093	1633
1915	273	100	D/M	11/16	4/ 6	4/ 5	4/ 4	4/ 3	4/ 2	4/ 1	4/ 1	4/ 1	4/ 1	3/24	3/21	3/21	3/21	
			.1MM	402	479	619	710	801	872	974	999	999	999	999	999	1030	1100	1244
1916	274	100	D/M	4/17	4/13	4/12	4/11	4/13	4/12	4/12	4/10	4/10	4/11	4/11	3/29	3/27	3/28	
			.1MM	294	528	715	815	989	1176	1305	1407	1536	1627	1758	1827	1859	2046	3118
1917	273	100	D/M	4/19	4/18	4/17	4/17	4/16	4/15	4/14	4/13	4/12	4/11	3/24	4/ 1	3/27	3/23	
			.1MM	395	777	990	1188	1279	1390	1470	1490	1499	1508	1508	1530	1614	1654	2570
1918	273	100	D/M	4/ 2	4/ 1	4/ 6	3/30	3/29	3/29	4/ 2	4/ 1	3/31	3/30	3/30	3/29	3/21	3/17	
			.1MM	336	579	818	943	1014	1014	1214	1457	1659	1821	1892	1900	2045	2247	2664
1919	273	100	D/M	4/11	4/10	4/ 9	4/ 8	4/ 7	4/ 6	4/ 5	4/ 5	4/ 3	4/ 3	4/ 3	3/23	3/18	3/16	
			.1MM	271	479	641	761	980	1081	1201	1201	1263	1263	1263	1263	1263	1263	1641
1920	274	100	D/M	3/27	3/26	3/25	3/24	3/23	3/23	3/23	3/21	3/21	3/18	3/13	3/12	3/ 6	3/ 6	
			.1MM	344	660	985	1259	1390	1442	1442	1452	1452	1496	1562	1614	1614	1614	1518
1921	273	100	D/M	3/21	3/20	3/19	3/19	3/20	3/16	3/15	3/15	3/16	3/12	3/ 8	3/ 2	2/28	2/23	
			.1MM	303	584	604	604	650	787	802	802	853	984	1055	1055	1319	1370	868
1922	273	100	D/M	11/19	4/ 6	4/ 6	4/ 5	4/ 4	4/ 3	4/ 2	4/ 2	4/ 2	4/ 2	3/26	3/20	3/14	3/14	
			.1MM	341	549	743	905	984	1055	1117	1117	1117	1117	1125	1249	1309	1380	1191
1923	273	100	D/M	4/21	4/21	4/20	4/19	4/19	4/17	4/16	4/16	4/16	4/16	4/ 8	4/ 3	4/ 3	4/ 3	
			.1MM	619	1152	1568	1628	1628	1699	1759	1759	1759	1759	1759	1863	1863	1863	2248
1924	274	100	D/M	4/ 8	4/ 7	4/ 6	4/ 5	4/ 4	4/ 5	4/ 5	4/ 4	4/ 4	4/ 4	4/ 3	3/28	3/22	3/22	
			.1MM	335	557	730	995	1086	1165	1352	1443	1474	1545	1698	1789	1809	1809	1935
1925	273	100	D/M	3/27	3/26	3/25	3/25	3/24	3/24	3/22	3/21	3/19	3/19	3/18	3/11	3/ 8	3/ 8	
			.1MM	331	585	798	964	1055	1055	1115	1190	1271	1437	1517	1517	1517	1517	1069
1926	273	100	D/M	4/22	4/22	4/22	4/22	4/21	4/21	4/22	4/21	4/21	4/22	4/21	4/13	4/ 8	4/ 8	
			.1MM	345	650	884	1180	1393	1413	1641	1854	2019	2304	2517	2569	2569	2569	2424
1927	273	100	D/M	11/16	4/ 5	4/ 4	4/ 4	4/ 3	3/13	3/12	3/12	3/30	3/29	3/27	3/12	3/13	3/12	
			.1MM	307	453	626	777	828	875	1006	1077	1107	1158	1258	1329	1329	1349	2186
1928	274	100	D/M	4/ 7	4/ 6	4/ 5	4/ 5	4/ 4	4/ 4	4/ 4	4/ 4	4/ 4	4/ 4	3/25	3/22	3/15	3/13	
			.1MM	325	579	785	975	1077	1077	1077	1077	1077	1077	1077	1194	1309	1460	1363
1929	273	100	D/M	1/ 6	3/15	3/13	3/13	3/13	3/25	3/25	3/13	3/13	3/13	3/14	3/13	3/ 4	3/ 4	
			.1MM	274	340	442	546	546	621	621	670	739	820	857	928	967	1107	945
1930	273	100	D/M	1/ 8	1/ 7	1/ 7	1/ 7	2/20	2/19	1/ 2	1/ 2	1/ 2	1/ 2	1/ 2	2/19	2/19	2/13	
			.1MM	262	467	467	467	506	597	635	635	635	635	635	635	668	668	1055
1931	273	100	D/M	3/29	3/28	3/28	3/26	3/26	3/24	3/24	3/24	3/26	3/25	3/20	3/16	3/10	3/ 5	
			.1MM	248	390	501	634	745	857	968	1070	1175	1267	1398	1489	1518	1518	1486
1932	274	100	D/M	2/12	4/12	4/11	4/10	4/ 9	4/ 8	4/ 7	4/ 6	4/ 6	4/ 7	4/ 1	3/27	3/27	3/27	
			.1MM	317	399	581	743	946	997	1068	1076	1076	1077	1086	1131	1279	1279	853
1933	273	100	D/M	12/25	4/ 2	4/ 1	4/ 1	4/ 2	4/ 1	3/31	3/31	3/31	3/31	3/27	3/20	3/20	3/20	
			.1MM	214	320	482	573	708	870	941	941	941	941	983	983	983	983	688
1934	273	100	D/M	12/31	4/10	4/ 9	4/16	4/15	4/15	4/14	4/11	4/11	4/10	4/ 6	4/ 1	4/ 1	3/26	
			.1MM	732	792	894	1087	1310	1461	1585	1742	2087	2351	2502	2604	2666	2726	2207
1935	273	100	D/M	4/10	4/ 9	4/ 9	4/ 9	4/ 8	4/ 8	4/ 8	4/ 8	4/ 8	4/ 5	3/31	3/28	3/23	3/16	
			.1MM	283	537	790	972	1103	1214	1238	1238	1238	1258	1258	1324	1348	1348	1410

1936	274	100	D/M	3/12	3/28	3/28	3/25	3/26	3/25	3/25	3/25	3/22	3/22	3/17	3/12	3/11	3/12	
			.1MM	308	419	653	811	1008	1196	1335	1335	1475	1614	1689	1828	1998	2137	1484
1937	273	100	D/M	4/ 5	4/ 5	4/ 5	4/ 5	4/ 5	4/ 5	4/ 5	4/ 5	4/ 5	4/ 5	4/ 5	4/ 5	12/27	12/26	
			.1MM	316	529	680	791	840	891	891	891	891	891	891	891	891	891	678
1938	273	100	D/M	3/23	3/23	3/21	3/23	3/20	3/21	3/20	3/19	3/23	3/17	3/17	3/13	3/13	3/ 5	
			.1MM	304	417	566	714	826	976	1123	1197	1245	1360	1507	1654	1728	1759	1397
1939	273	100	D/M	4/26	4/26	4/25	4/25	4/23	4/22	4/22	4/20	4/19	4/19	4/14	4/11	4/11	3/31	
			.1MM	345	587	789	925	1137	1319	1455	1584	1792	1928	1999	2050	2050	2090	1853
1940	274	100	D/M	4/19	4/18	4/18	4/18	4/17	4/18	4/18	4/18	4/18	4/17	4/16	4/12	4/ 9	4/ 1	3/31	
			.1MM	282	522	724	855	992	1125	1307	1460	1591	1677	1677	1677	1677	1808	1745
1941	273	100	D/M	12/29	4/10	4/ 9	4/ 8	4/ 7	4/ 6	4/ 5	4/ 4	4/ 3	4/ 3	4/ 3	4/ 3	4/ 3	3/16	
			.1MM	416	628	893	1086	1228	1462	1564	1646	1717	1717	1717	1717	1717	1717	1764
1942	273	100	D/M	12/24	12/23	12/23	12/23	3/27	3/26	3/26	3/25	3/25	3/22	3/16	3/16	3/ 8	3/ 4	
			.1MM	325	490	490	490	500	611	685	745	745	751	858	932	932	998	1029
1943	272	99	D/M	4/25	4/24	4/23	4/23	4/22	4/22	4/22	4/21	4/20	4/19	4/17	4/ 9	4/ 9	3/31	
			.1MM	451	855	1189	1434	1677	1876	2107	2249	2324	2425	2505	2514	2514	2514	2427
1944	274	100	D/M	3/26	4/10	4/18	4/17	4/17	4/17	4/17	4/13	4/10	4/10	4/10	4/ 2	3/26	3/25	
			.1MM	223	415	471	540	540	540	540	580	757	888	1026	1026	1026	1026	909
1945	273	100	D/M	3/18	3/24	3/23	3/18	3/17	3/20	3/18	3/18	3/17	3/16	3/14	3/14	3/ 2	2/26	
			.1MM	265	508	710	859	1019	1141	1359	1613	1773	1878	2060	2131	2145	2145	1998
1946	273	100	D/M	3/13	3/13	3/13	3/13	3/13	3/13	3/ 8	3/ 7	3/ 6	3/ 6	3/ 2	3/ 2	3/ 2	2/13	
			.1MM	296	590	624	624	624	624	762	884	1002	1036	1036	1051	1102	1136	838
1947	273	100	D/M	4/11	4/23	4/10	4/11	4/10	4/10	4/ 9	4/ 5	4/ 6	4/ 5	4/10	4/ 5	4/ 5	4/ 2	
			.1MM	420	766	853	934	1064	1166	1246	1347	1447	1558	1660	1673	1726	2105	2334
1948	274	100	D/M	3/16	3/16	3/21	3/20	3/21	3/16	3/16	3/16	3/16	3/16	3/16	3/16	3/16	3/16	
			.1MM	325	510	544	646	777	1031	1142	1283	1374	1516	1516	1758	1905	1905	1249
1949	273	100	D/M	3/27	4/ 3	4/ 3	4/ 2	4/ 1	3/31	3/22	3/22	3/27	3/27	3/22	3/22	3/22	3/22	
			.1MM	200	354	516	656	685	734	806	899	1049	1211	1353	1406	1406	1559	1443
1950	273	100	D/M	4/ 3	12/20	12/19	12/18	12/18	12/18	12/18	3/28	12/18	3/27	3/23	3/28	3/23	3/23	
			.1MM	322	581	666	821	821	821	821	840	943	1005	1041	1091	1173	1215	1327
1951	260	95	D/M	1/ 3	3/29	3/29	3/29	3/29	3/29	3/29	3/28	3/27	3/26	3/21	3/16	3/11	3/ 6	
			.1MM	334	544	664	795	891	1001	1151	1222	1222	1222	1222	1230	1245	1245	1200
1952	274	100	D/M	4/ 5	4/ 4	4/ 3	4/ 2	4/ 5	4/ 5	4/ 4	4/ 3	4/ 3	4/ 2	3/28	3/23	3/20	3/12	
			.1MM	328	488	640	761	951	1153	1313	1465	1595	1716	1821	1830	1830	1830	1686
1953	273	100	D/M	12/10	12/10	12/10	12/10	12/ 6	12/ 5	12/ 5	12/ 5	12/ 5	12/ 5	12/ 5	12/ 5	12/ 5	12/ 5	
			.1MM	381	381	381	381	401	599	599	599	599	599	599	599	599	599	277
1954	271	99	D/M	4/11	4/ 6	4/ 6	4/ 6	4/ 7	4/ 6	4/ 6	4/ 6	4/ 6	4/ 6	4/ 6	4/ 6	4/ 6	4/ 6	
			.1MM	354	651	813	813	1111	1438	1487	1487	1487	1487	1487	1487	1487	1487	1167
1955	273	100	D/M	4/10	4/10	4/10	4/ 9	4/ 9	4/ 9	4/ 6	4/ 5	4/ 4	4/ 3	3/30	3/30	3/21	3/15	
			.1MM	334	599	781	923	984	984	1144	1326	1457	1528	1648	1759	1881	1942	1957
1956	274	100	D/M	4/ 5	4/ 5	4/ 5	4/ 4	4/ 5	4/ 4	4/ 4	4/ 4	4/ 4	4/ 1	4/ 1	4/ 1	4/ 1	4/ 1	
			.1MM	290	524	716	807	978	1069	1133	1133	1133	1182	1182	1182	1182	1182	1148
1957	273	100	D/M	1/22	1/21	1/21	1/21	3/12	3/11	3/11	3/ 9	3/13	3/13	3/ 9	2/25	2/25	2/24	
			.1MM	402	515	515	515	519	537	537	577	626	678	698	716	716	756	730
1958	273	100	D/M	12/ 7	3/30	3/30	3/30	3/28	3/27	3/27	3/26	3/24	3/23	3/19	3/16	3/16	3/ 4	
			.1MM	218	313	455	550	648	768	863	934	1003	1136	1238	1333	1393	1393	1438
1959	273	100	D/M	4/15	4/14	4/14	4/ 8	4/ 8	4/10	4/ 9	4/ 8	4/ 8	4/ 6	4/ 1	3/30	3/30	3/20	
			.1MM	243	425	524	673	715	860	982	1220	1319	1392	1504	1603	1686	1837	2129
1960	274	100	D/M	4/17	4/17	4/16	4/15	4/14	4/13	4/12	4/12	4/10	4/ 9	4/ 4	3/30	3/28	3/28	
			.1MM	380	744	1098	1401	1617	1791	1884	1884	1917	1940	1940	1940	2034	2156	2233
1961	273	100	D/M	2/25	2/24	2/23	2/22	2/23	2/22	2/19	2/18	2/23	2/23	2/18	2/13	2/13	2/23	
			.1MM	241	284	408	417	418	427	437	528	580	618	627	627	627	700	747
1962	273	100	D/M	3/29	3/29	3/28	3/27	3/26	3/25	3/24	3/24	3/22	3/21	3/16	3/12	3/12	3/12	
			.1MM	274	516	663	754	925	1065	1116	1116	1258	1325	1325	1325	1325	1374	1407
1963	273	100	D/M	3/30	3/26	3/25	3/27	3/26	3/25	3/25	3/25	3/25	3/21	3/17	3/17	3/17	3/ 5	

			.1MM	285	309	423	459	607	721	741	741	741	781	801	801	801	804	1478
1964	274	100	D/M	3/ 6	3/ 5	3/ 4	3/ 3	3/ 3	3/ 3	3/ 3	3/ 3	3/ 3	3/ 3	3/ 3	3/ 3	3/ 3	2/ 5	
			.1MM	269	382	524	655	655	655	655	655	655	655	655	655	655	655	635
1965	273	100	D/M	4/ 7	4/ 6	4/ 5	4/ 5	3/ 3	3/ 3	3/ 3	3/ 3	3/ 3	3/ 3	2/25	2/25	2/11	2/ 7	
			.1MM	233	375	486	486	546	546	546	546	546	546	610	610	610	610	734
1966	273	100	D/M	12/24	2/28	2/28	2/28	2/28	2/28	2/28	12/24	12/23	12/23	12/23	2/11	2/ 9	12/ 2	
			.1MM	208	313	404	404	404	404	404	460	506	506	506	506	506	506	676
1967	273	100	D/M	4/ 1	4/ 1	3/31	3/31	3/29	3/28	3/27	3/27	3/25	3/25	3/25	3/25	3/10	3/10	
			.1MM	376	693	804	804	886	1109	1283	1283	1314	1314	1314	1314	1314	1314	1630
1968	274	100	D/M	3/17	3/20	3/20	3/17	3/17	3/17	3/16	3/16	3/16	3/16	3/10	3/10	3/10	3/10	
			.1MM	219	375	538	650	818	981	994	994	994	994	994	1014	1166	1166	1027
1969	273	100	D/M	1/24	3/24	3/24	3/22	3/21	3/20	3/19	3/19	3/19	3/19	3/15	3/15	3/15	1/23	
			.1MM	232	332	332	412	514	562	572	572	572	572	603	603	603	603	929
1970	273	100	D/M	12/10	4/ 8	4/ 8	4/ 7	4/ 9	4/ 8	4/ 7	4/ 7	4/ 7	4/ 7	4/ 2	3/25	3/21	3/21	
			.1MM	284	425	456	466	641	812	822	822	822	822	822	837	837	837	1807
1971	273	100	D/M	4/13	4/12	4/11	4/10	4/12	4/12	4/11	4/10	4/10	4/10	4/ 3	3/30	3/30	3/30	
			.1MM	230	428	488	508	609	709	769	789	789	789	789	789	789	789	3370
1972	274	100	D/M	12/10	12/ 9	12/ 9	12/ 9	4/14	4/14	4/14	4/13	4/12	4/11	4/11	4/ 3	3/30	3/22	
			.1MM	257	397	517	628	725	879	1087	1168	1248	1288	1288	1288	1288	1288	2109
1973	273	100	D/M	3/17	3/16	3/15	3/15	3/13	3/12	3/11	3/10	3/10	3/ 8	3/ 3	3/ 3	3/ 3	3/ 3	
			.1MM	322	504	676	713	784	982	1159	1197	1234	1476	1638	1675	1701	1801	1298
1974	273	100	D/M	3/ 4	3/ 4	3/ 4	3/ 4	3/ 4	3/ 4	3/30	2/28	2/28	2/28	2/22	2/22	2/22	3/ 4	
			.1MM	446	568	719	1004	1004	1004	1025	1056	1056	1056	1056	1056	1056	1152	1040
1975	273	100	D/M	4/18	4/17	4/16	4/15	4/14	4/14	4/14	4/14	4/14	4/14	4/14	3/30	3/25	3/20	
			.1MM	363	668	900	1002	1104	1104	1104	1104	1104	1104	1104	1104	1104	1104	1239
1976	274	100	D/M	4/ 1	4/ 1	4/ 1	3/25	3/31	3/28	3/26	3/25	3/25	3/25	3/21	3/20	3/13	3/ 5	
			.1MM	434	617	722	883	955	1115	1317	1530	1713	1818	1960	1960	2056	2198	1821
1977	273	100	D/M	3/13	3/13	3/12	3/10	3/10	3/10	3/ 9	3/ 9	3/ 9	3/ 7	3/ 4	2/24	2/24	2/24	
			.1MM	332	536	737	949	1153	1291	1402	1442	1442	1471	1511	1544	1572	1572	1299
1978	273	100	D/M	1/25	1/25	4/11	4/10	4/10	4/10	4/10	4/10	4/ 7	4/ 4	3/31	3/27	3/21	3/20	
			.1MM	332	384	536	724	842	924	924	924	959	998	1116	1198	1207	1325	1898
1979	273	100	D/M	3/23	3/22	3/21	3/21	3/20	3/20	3/20	3/20	3/20	3/20	3/10	3/ 5	3/ 3	2/23	
			.1MM	246	456	629	754	872	872	872	872	872	872	947	977	977	977	1500
1980	274	100	D/M	3/22	3/21	3/21	3/21	3/21	3/21	3/21	3/18	3/17	3/18	3/17	3/11	3/11	3/11	
			.1MM	509	685	813	950	1004	1004	1037	1040	1042	1073	1075	1075	1075	1075	537
1981	273	100	D/M	2/20	2/19	2/19	2/18	2/17	2/17	2/17	2/17	2/17	2/17	2/ 8	2/ 2	2/ 1	1/25	
			.1MM	236	460	656	811	957	957	957	957	957	957	1110	1176	1176	1203	1087
1982	273	100	D/M	3/31	3/31	3/30	3/31	3/30	3/30	3/30	3/25	3/25	3/25	3/19	3/13	3/11	3/12	
			.1MM	388	516	592	684	760	760	760	804	804	972	972	972	990	1013	1245
1983	273	100	D/M	1/10	2/ 2	2/ 2	1/31	1/31	1/31	1/31	1/31	1/31	12/15	12/15	12/23	1/10	12/15	
			.1MM	282	309	309	333	333	333	333	333	333	380	514	514	514	514	328
1984	274	100	D/M	2/14	2/13	2/13	2/13	3/31	3/30	2/13	2/13	2/13	2/14	2/11	2/11	2/ 3	2/ 3	
			.1MM	309	399	479	528	566	657	698	749	749	788	903	993	993	1002	936
1985	273	100	D/M	2/23	2/23	3/11	3/11	3/11	3/ 8	3/ 8	3/ 8	3/ 8	3/ 8	3/ 1	2/23	2/21	2/23	
			.1MM	276	334	429	482	482	528	581	581	581	581	581	581	634	679	1075
1986	273	100	D/M	3/19	1/19	1/18	1/18	3/15	3/15	3/13	3/13	3/13	3/10	3/ 9	3/ 2	3/ 2	2/18	
			.1MM	267	411	520	520	552	552	560	560	560	675	682	682	682	682	704
1987	273	100	D/M	3/ 8	3/ 7	3/20	3/19	3/18	3/17	3/17	3/17	3/17	3/17	3/ 8	3/ 7	2/28	2/28	
			.1MM	226	386	450	481	539	579	579	579	579	579	579	579	579	592	960
1988	274	100	D/M	3/26	3/25	3/25	3/25	3/25	3/25	3/25	3/25	3/25	3/25	3/14	3/ 8	3/ 8	3/ 8	
			.1MM	290	461	619	619	619	619	619	619	619	619	661	661	661	669	507
1989	273	100	D/M	3/28	3/27	3/26	3/25	3/24	3/24	3/24	3/24	3/24	3/24	3/14	3/14	3/ 4	3/ 4	
			.1MM	310	600	759	870	882	882	882	882	882	882	882	882	882	1121	838
1990	273	100	D/M	3/15	3/11	3/11	3/12	3/11	3/11	3/10	3/10	3/10	3/10	3/ 2	3/ 2	2/22	2/15	
			.1MM	192	354	502	617	781	842	854	854	854	854	854	854	854	864	906

1991	273	100	D/M	2/ 5	2/ 4	2/ 4	2/ 4	2/ 3	2/ 3	12/17	12/17	12/21	12/21	12/17	3/ 1	3/ 1	2/18	
			.1MM	204	368	446	528	540	540	553	553	633	662	662	722	774	803	855
1992	274	100	D/M	3/27	3/27	3/26	3/26	3/27	3/27	3/27	3/26	3/26	3/26	3/27	3/26	3/26	3/26	
			.1MM	472	638	646	646	709	835	889	897	897	897	958	1010	1178	1302	1300
1993	273	100	D/M	1/ 4	3/29	3/28	3/27	3/26	3/26	3/25	3/24	3/24	3/26	3/24	3/24	3/16	3/16	
			.1MM	361	559	756	966	1099	1197	1268	1319	1319	1338	1437	1570	1641	1699	1548
1994	273	100	D/M	2/20	3/22	3/22	3/21	3/21	3/21	3/21	3/21	3/21	3/31	3/22	3/21	3/21	3/15	
			.1MM	261	370	487	563	563	563	563	625	641	694	703	713	781	802	1448
1995	273	100	D/M	1/15	1/15	1/14	1/13	1/12	1/12	1/12	1/12	1/12	1/12	1/12	1/12	1/12	12/18	
			.1MM	583	689	739	829	889	889	889	927	981	981	981	981	981	981	335
1996	274	100	D/M	1/19	1/18	1/17	1/16	2/20	2/20	2/20	2/20	2/20	2/20	2/20	2/ 8	2/20	2/20	
			.1MM	381	580	582	618	758	800	800	822	822	822	822	822	822	822	1494
1997	273	100	D/M	2/21	4/ 5	4/ 4	4/ 3	4/ 2	4/ 1	4/ 1	3/29	3/29	3/28	3/25	3/25	3/14	3/14	
			.1MM	384	576	813	922	1059	1099	1099	1139	1376	1479	1680	1712	1746	1746	1450

****

	1 DAY	2 DAY	3 DAY	4 DAY	5 DAY	6 DAY	7 DAY	8 DAY	9 DAY	10 DAY	15 DAY	20 DAY	25 DAY	30 DAY
MEAN EXTREME(MM)	33.2	53.3	68.1	79.2	89.5	98.4	105.6	111.3	117.1	123.2	145.7	162.0	172.8	181.8
STD. DEV.(MM)	9.0	15.0	20.7	25.6	29.6	32.8	36.2	39.0	42.4	46.0	56.2	62.9	67.5	70.3
YEARS ANALYSED	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0

** NOTE ** MEAN AND STANDARD DEVIATION HAVE BEEN ADJUSTED TO ACCOUNT FOR ONE OBSERVATION PER DAY.

NOTE ** VALUE IN FLAG INDICATES YEAR NOT INCLUDED IN ANALYSIS BASED ON % DAYS OPERATIONAL (<90.0%)

ATMOSPHERIC ENVIRONMENT SERVICE
RAIN+SNOWMELT INTENSITY, DURATION, FREQUENCY VALUES
PREPARED BY THE HYDROMETEOROLOGY DIVISION, CANADIAN CLIMATE CENTRE

STATION : Ottawa CDA, Ontario STATION NUMBER 6105976

LATITUDE: 4523 LONGITUDE: 7543 ELEVATION(M): 79

SNOWMELT MODEL 5

CRITICAL PERIOD : 1ST OF MONTH 10 TO THE END OF MONTH 5 NOTE : MODIFIED GUMBEL 12/82

RETURN PERIOD VALUES (MM) WITH 50% CONFIDENCE LIMITS

RETURN PERIOD YEARS	1 DAY	2 DAY	3 DAY	4 DAY	5 DAY
2	31.71+/- .54	50.80+/- .90	64.73+/- 1.24	75.03+/- 1.54	84.63+/- 1.78
5	39.68+/- .91	64.06+/- 1.52	83.00+/- 2.09	97.66+/- 2.59	110.76+/- 2.99
10	44.97+/- 1.23	72.86+/- 2.05	95.12+/- 2.83	112.68+/- 3.50	128.10+/- 4.05
25	51.63+/- 1.66	83.96+/- 2.77	110.41+/- 3.81	131.62+/- 4.72	149.96+/- 5.45
50	56.58+/- 1.99	92.19+/- 3.31	121.74+/- 4.56	145.66+/- 5.65	166.18+/- 6.52
100	61.50+/- 2.32	100.38+/- 3.86	133.02+/- 5.31	159.63+/- 6.58	182.31+/- 7.60

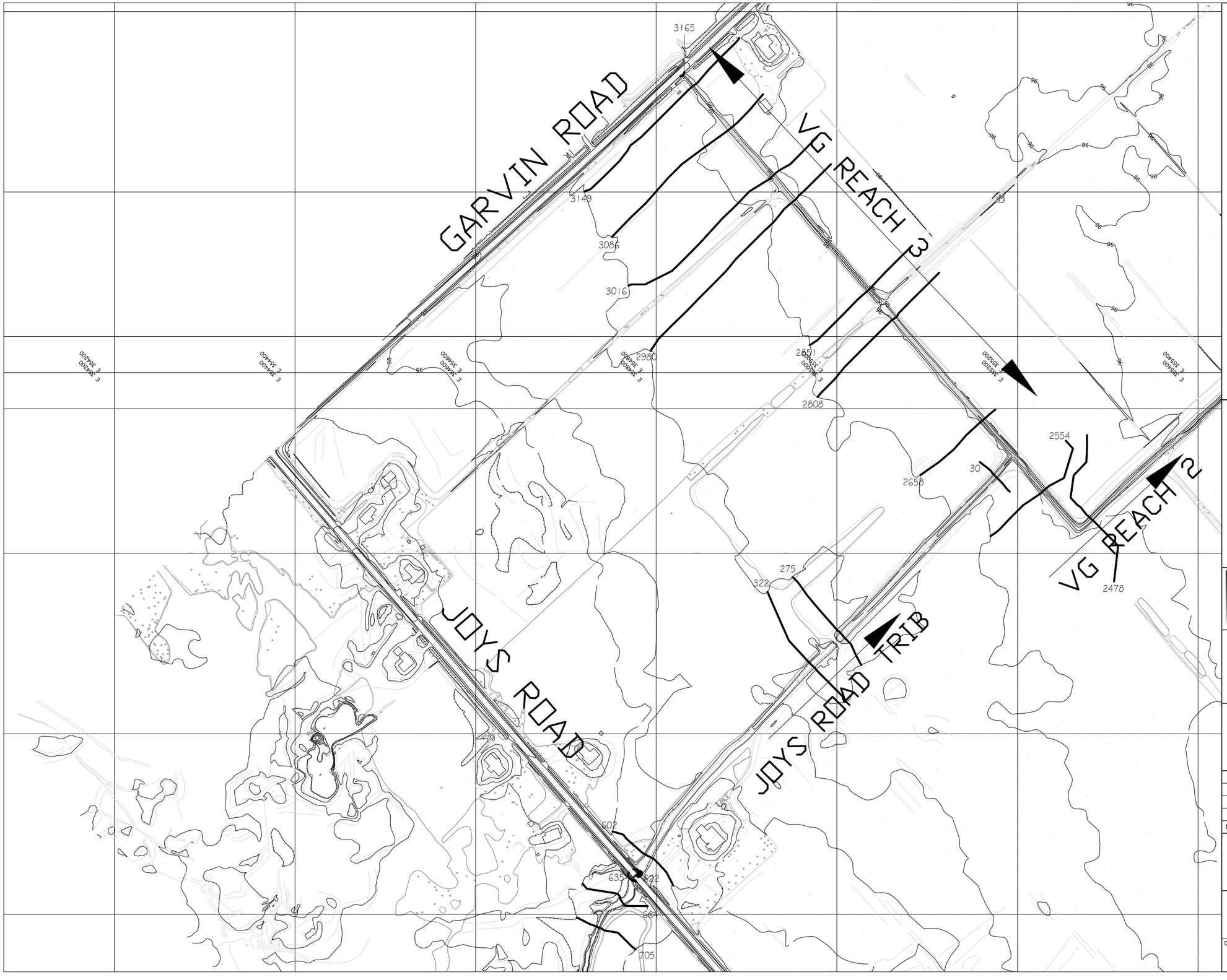
RETURN PERIOD YEARS	6 DAY	7 DAY	8 DAY	9 DAY	10 DAY
2	93.07+/- 1.97	99.69+/- 2.18	104.90+/- 2.34	110.16+/- 2.55	115.69+/- 2.76
5	121.99+/- 3.31	131.69+/- 3.67	139.32+/- 3.94	147.64+/- 4.29	156.28+/- 4.65
10	141.19+/- 4.48	152.92+/- 4.95	162.16+/- 5.33	172.52+/- 5.80	183.21+/- 6.28
25	165.40+/- 6.04	179.70+/- 6.68	190.96+/- 7.18	203.89+/- 7.82	217.18+/- 8.47
50	183.35+/- 7.22	199.55+/- 7.99	212.32+/- 8.59	227.15+/- 9.36	242.37+/-10.14
100	201.21+/- 8.42	219.30+/- 9.31	233.56+/-10.01	250.29+/-10.91	267.43+/-11.81

RETURN PERIOD YEARS	15 DAY	20 DAY	25 DAY	30 DAY
2	136.51+/- 3.37	151.72+/- 3.78	161.74+/- 4.05	170.24+/- 4.22
5	186.10+/- 5.68	207.22+/- 6.36	221.30+/- 6.82	232.30+/- 7.11
10	219.01+/- 7.68	244.05+/- 8.59	260.82+/- 9.22	273.49+/- 9.61
25	260.51+/-10.35	290.50+/-11.58	310.67+/-12.43	325.43+/-12.95
50	291.28+/-12.38	324.94+/-13.86	347.63+/-14.87	363.94+/-15.50
100	321.89+/-14.43	359.20+/-16.15	384.39+/-17.33	402.25+/-18.06

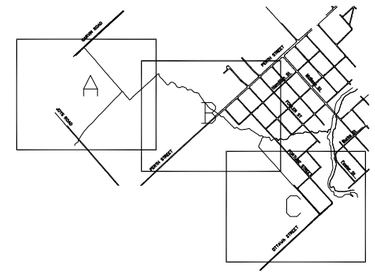
** WARNING ** : THE 1-DAY 100-YEAR RETURN PERIOD EVENT IS EXCEEDED BY THE 1-DAY EVENT IN 1923
** WARNING ** : THE 1-DAY 100-YEAR RETURN PERIOD EVENT IS EXCEEDED BY THE 1-DAY EVENT IN 1934
** WARNING ** : THE 2-DAY 100-YEAR RETURN PERIOD EVENT IS EXCEEDED BY THE 2-DAY EVENT IN 1923
** WARNING ** : THE 3-DAY 100-YEAR RETURN PERIOD EVENT IS EXCEEDED BY THE 3-DAY EVENT IN 1923
** WARNING ** : THE 4-DAY 100-YEAR RETURN PERIOD EVENT IS EXCEEDED BY THE 4-DAY EVENT IN 1923

APPENDIX M

HEC-RAS Cross Section Locations



KEY PLAN :



J.F. Sabourin & Associates Inc.
WATER RESOURCES AND ENVIRONMENTAL CONSULTANTS
OTTAWA (613) 836-3884
GATINEAU (819) 243-6858

CLIENT :

RIDEAU VALLEY CONSERVATION AUTHORITY
3889 RIDEAU VALLEY DRIVE
MANOTICK, ONTARIO, K4M 1A5
(613) 692-3571

PROJECT :

RICHMOND FLOODPLAIN MAPPING

No.	BY	DATE	DESCRIPTION	BY
1	BW	27/11/2009	ISSUED FOR REVIEW	BW

TITLE :

HEC-RAS CROSS SECTIONS (A)

DESIGNED:	
DRAWN:	BW
VERIFIED:	JFS
APPROVED:	JFS
DATE	PROJECT No.
NOV/09	709(08)

DRAWING REF.

CEDARSTONE SUBDIVISION

FORTUNE STREET

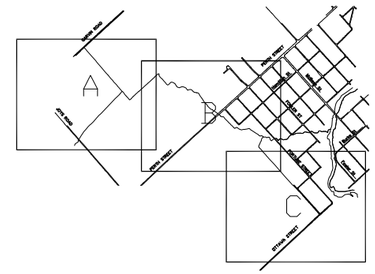
PERTH STREET

VG REACH 2

VG REACH 1

MD REACH 1

KEY PLAN :



J.F. Sabourin & Associates Inc.
WATER RESOURCES AND ENVIRONMENTAL CONSULTANTS
OTTAWA (613) 836-3884
GATINEAU (819) 243-6858

CLIENT :

RIDEAU VALLEY CONSERVATION AUTHORITY
3889 RIDEAU VALLEY DRIVE
MANOTICK, ONTARIO, K4M 1A5
(613) 692-3571

PROJECT :

RICHMOND FLOODPLAIN MAPPING

No.	BY	DATE	DESCRIPTION	BY
1	BW	27/11/2009	ISSUED FOR REVIEW	BW

TITLE :

HEC-RAS CROSS SECTIONS (B)

DESIGNED:	
DRAWN:	BW
VERIFIED:	JFS
APPROVED:	JFS
DATE	PROJECT No.
NOV/09	709(08)

DRAWING REF.

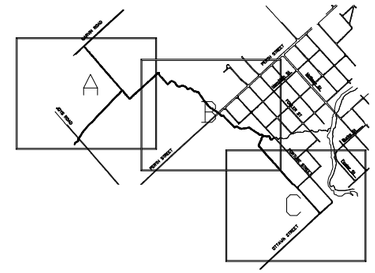
MD REACH 1

FORTUNE STREET

QUEEN CHARLOTTE ST

OTTAWA STREET

KEY PLAN:



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J.F. Sabourin & Associates Inc.
WATER RESOURCES AND ENVIRONMENTAL CONSULTANTS
OTTAWA (613) 836-3884
GATINEAU (819) 243-6858

CLIENT :

RIDEAU VALLEY CONSERVATION AUTHORITY
3889 RIDEAU VALLEY DRIVE
MANOTICK, ONTARIO, K4M 1A5
(613) 692-3571

PROJECT :

RICHMOND FLOODPLAIN MAPPING

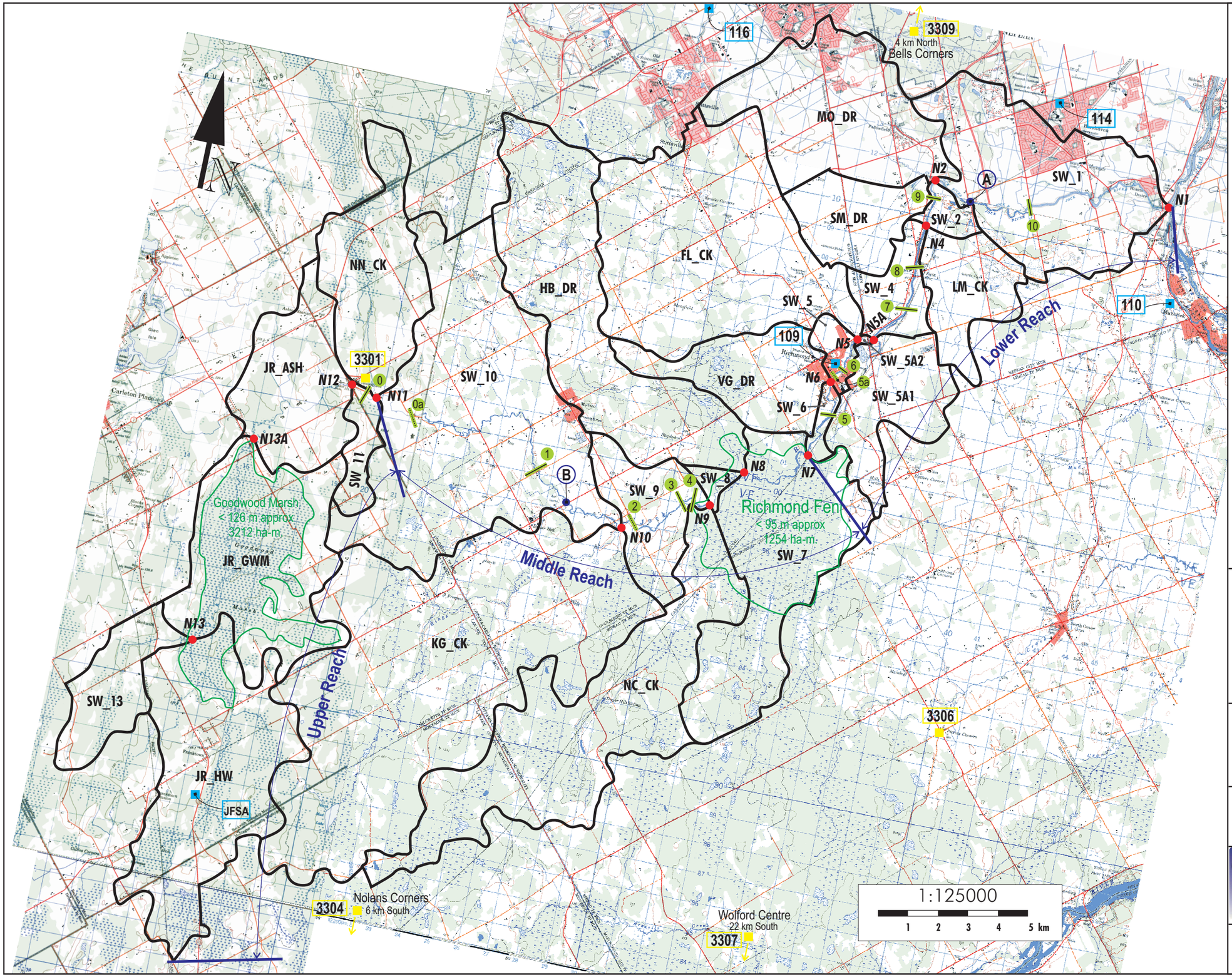
No.	BY	DATE	DESCRIPTION	BY
1	BW	27/11/2009	ISSUED FOR REVIEW	BW

TITLE :

HEC-RAS CROSS SECTIONS (C)

DESIGNED:	
DRAWN:	BW
VERIFIED:	JFS
APPROVED:	JFS
DATE	PROJECT No.
NOV/09	709(08)

DRAWING REF.



Legend:

- Watershed
- Bogs (Reservoir)
- Nodes
- Flow gauges
- Rain gauges
- Snow course stations
- River Cross-Sections (based on topo. maps)
- River Cross-Sections adjusted with field data
- Reaches limits

Flow gauges ID

- (A) 02LA007- Jock River near Richmond
- (B) Jock River at Franktown Rd

Rain gauges ID

- 109 Richmond
- 110 Manotick
- 114 Barrhaven
- 116 Maple Grove
- JFSA JFSA Inc, Temporary Rain Gauge 2003

Snow course stations ID

- 3301 Ashton
- 3304 Nolans Corners
- 3306 Pierces Corners
- 3307 Bells Corners
- 3309 Wolford Centre

Client:

RIDEAU VALLEY CONSERVATION AUTHORITY

Project:

Jock River Flood Plain Mapping Study

Title:

Watershed Delineation

J.F. Sabourin & Associates Inc.
WATER RESOURCES AND ENVIRONMENTAL CONSULTANTS
OTTAWA (613) 727-5199
GATINEAU (819) 243-6858

Figure 2

Ref. File: Base Map Jock River B.cdr

APPENDIX N

Sensitivity Analysis Results

SIMULATED HEC-RAS WATER ELEVATIONS (FLOW SENSITIVITY ANALYSIS)					
			Governing Water Elevations (m)		
River	*Reach*	*River Station**	*(Original - Used for Mapping)*	*20% Flow Increase*	*20% Flow Decrease*
Van Gaal Drain	Reach 3	3174 Garvin Rd Culvert	-	-	-
Van Gaal Drain	Reach 3	3165	96.75	96.77	96.74
Van Gaal Drain	Reach 3	3149	96.72	96.76	96.68
Van Gaal Drain	Reach 3	3086	96.64	96.68	96.60
Van Gaal Drain	Reach 3	3016	96.61	96.64	96.56
Van Gaal Drain	Reach 3	2980	96.57	96.61	96.53
Van Gaal Drain	Reach 3	2851	96.42	96.46	96.36
Van Gaal Drain	Reach 3	2808	96.39	96.43	96.33
Van Gaal Drain	Reach 3	2658	96.29	96.33	96.24
Van Gaal Drain	Reach 2	2554	96.28	96.33	96.23
Van Gaal Drain	Reach 2	2478	96.16	96.19	96.11
Van Gaal Drain	Reach 2	2157	95.48	95.52	95.43
Van Gaal Drain	Reach 2	2076	95.27	95.31	95.21
Van Gaal Drain	Reach 2	1974	95.11	95.15	95.06
Van Gaal Drain	Reach 2	1922	94.99	95.03	94.95
Van Gaal Drain	Reach 2	1833	94.85	94.89	94.81
Van Gaal Drain	Reach 2	1796	94.81	94.84	94.77
Van Gaal Drain	Reach 2	1735	94.72	94.76	94.70
Van Gaal Drain	Reach 2	1728	94.69	94.74	94.68
Van Gaal Drain	Reach 2	1727 Farm Culvert	-	-	-
Van Gaal Drain	Reach 2	1717	94.69	94.75	94.64
Van Gaal Drain	Reach 2	1615	94.61	94.68	94.53
Van Gaal Drain	Reach 2	1555	94.55	94.62	94.46
Van Gaal Drain	Reach 2	1488	94.45	94.55	94.37
Van Gaal Drain	Reach 2	1416	94.41	94.54	94.24
Van Gaal Drain	Reach 2	1400	94.36	94.49	94.23
Van Gaal Drain	Reach 2	1364	94.31	94.46	94.18
Van Gaal Drain	Reach 2	1340	94.21	94.32	94.11
Van Gaal Drain	Reach 2	1339 Perth St Culvert	-	-	-
Van Gaal Drain	Reach 2	1312	94.13	94.22	94.11
Van Gaal Drain	Reach 2	1302	94.15	94.28	94.11
Van Gaal Drain	Reach 2	1268	94.14	94.27	94.11
Van Gaal Drain	Reach 2	1212	94.12	94.25	94.11
Van Gaal Drain	Reach 2	1169	94.12	94.24	94.11
Van Gaal Drain	Reach 2	1091	94.12	94.23	94.11
Van Gaal Drain	Reach 2	1002	94.12	94.22	94.11
Van Gaal Drain	Reach 2	961	94.11	94.22	94.11
Van Gaal Drain	Reach 2	910	94.11	94.22	94.11
Van Gaal Drain	Reach 2	840	94.11	94.21	94.11
Van Gaal Drain	Reach 1	746	94.11	94.21	94.11
Van Gaal Drain	Reach 1	705	94.11	94.21	94.11
Van Gaal Drain	Reach 1	668	94.11	94.19	94.11

Note: * Refer to Appendix M for river station locations

SIMULATED HEC-RAS WATER ELEVATIONS (FLOW SENSITIVITY ANALYSIS)					
			Governing Water Elevations (m)		
River	*Reach*	*River Station**	*(Original - Used for Mapping)*	*20% Flow Increase*	*20% Flow Decrease*
Van Gaal Drain	Reach 1	666	94.10	94.10	94.10
Van Gaal Drain	Reach 1	656 Fortune St Culvert	-	-	-
Moore Drain	Reach 1	298	94.11	94.21	94.11
Moore Drain	Reach 1	130	94.11	94.21	94.11
Joys Road Trib	Reach 1	705	97.79	98.05	97.42
Joys Road Trib	Reach 1	664	97.79	98.05	97.43
Joys Road Trib	Reach 1	635	97.67	97.93	97.34
Joys Road Trib	Reach 1	634 Joys Road Culvert	-	-	-
Joys Road Trib	Reach 1	622	97.26	97.31	97.15
Joys Road Trib	Reach 1	602	97.27	97.33	97.15
Joys Road Trib	Reach 1	322	96.71	96.77	96.59
Joys Road Trib	Reach 1	275	96.56	96.63	96.42
Joys Road Trib	Reach 1	30	96.29	96.33	96.25

Note: * Refer to Appendix M for river station locations

FLOW SENSITIVITY ANALYSIS							
Scenario							
River	*Reach*	*River Station Range*	*River Station Location**	*20% Flow Increase*		*20% Flow Decrease*	
				Maximum Increase In Water Level (m)	*Estimated Max Increase in Floodplain Width (m)*	*Maximum Decrease In Water Level (m)*	*Estimated Max Decrease in Floodplain Width (m)*
Van Gaal Drain	Reach 3	3174-1727	Garvin Rd to 388 m U/S of Perth St	0.05	40 m at 1922	-0.06	30 m at 2076
Van Gaal Drain	Reach 2	1727-1339	388 m U/S of Perth St to Perth St	0.15	40 m at 1615	-0.17	300 m at 1488
Van Gaal Drain	Reach 2	1339-746	Perth St to 90 m U/S of Fortune St	0.13	No Change	-0.04	No Change
Van Gaal Drain	Reach 1	746-656	90 m U/S of Fortune St to Fortune St	0.10	No Change	0.00	No Change
Moore Drain	Reach 1	298-130	Moore Drain (130 m U/S from Main Drain)	0.10	50 m at 298	0.00	No Change
Joys Road Trib	Reach 1	705-30	Joys Road Tributary	0.26	45 m at 705	-0.37	35 m at 705

Note: * Refer to Appendix M for river station locations