

STORMS

Order Form

To order, please complete the following and return with payment to:

J.F. Sabourin and Associates Inc.
350-11011 Prince of Wales Drive
Ottawa, Ontario K2C 3W7 CANADA.

Tel: (613) 727-5199
Fax: (613) 727-5699
Toll Free 1-877-SWMHYMO

E-Mail: storms@jfsa.com.

Canadian Orders

- Each site license, \$500/each x _____ \$ _____
- Upgrade from Storms 1.3 or earlier:
Deduct amount paid for previous for _____ \$(_____)
previous license (proof of purchase required)
- All Canadian orders add 7 % GST _____ \$ _____
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(Includes all shipping charges)
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Other available applications

**SWMHYMO⁽¹⁾,
PLOTYD⁽¹⁾,
IMPRAM^(1,2),
MANNING'S CALCULATOR⁽¹⁾**

- 1) Requires Windows 95/98/NT. Pentium 90 with 64 MegRam recommended.
2) Also available for DOS application.



A single event and continuous hydrologic model based on the principles of HYMO (Williams and Hann, 1973) and its successors, OTTHYMO-83 and OTTHYMO-89. In addition to many practical improvements, SWMHYMO introduces continuous simulation capabilities.

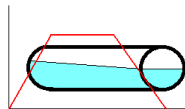
Visit: <http://www.jfsa.com/html/swmhymo.htm>



PLOTYD

This utility software can be used to enter, modify or plot up to 6 hydrographs at the same time; a valuable tool in any SWM study. Compatible with SWMHYMO and OTTHYMO-89.

Visit: <http://www.jfsa.com/html/plotyhd.htm>



IMPRAM

This program can design or analyze stormwater sewer networks using the Improved Rational Method.

Visit: <http://www.jfsa.com/html/impram.htm>

MANNING'S CALCULATOR
THE ULTIMATE HYDRAULIC ENGINEERING UTILITY

Solve any variable in Manning's Equation for open channel flow. Works for circular pipes, rectangular, trapezoidal and triangular channels as well as gutter sections. Can eliminate hours of tedious, iterative computations!

Visit: <http://www.jfsa.com/html/manclac.htm>

STORMS²⁰⁰⁰

Ver:2.0.0

**The only hydrological tool
of its kind!**

Here are some of the features:

- ▶ Create design storms in seconds.
(Chicago, SCS, AES, Huff, User defined)
- ▶ Find the closest meteorological station to your project from a database of more than 1200 canadian stations.
- ▶ Create your own database of IDF curves.
- ▶ Generate your own IDF curves or update old ones using the GEV distribution.
- ▶ Determine the return period of observed events.
- ▶ Plot storm data or IDF curves on report ready charts.

Compatible with SWMHYMO and OTTHYMO/INTERHYMO

Fonctionne également en français.

Works with Microsoft Windows 95/98/NT
Y2K Compliant

distributed by:



J.F. Sabourin and Associates Inc.
WATER RESOURCES AND ENVIRONMENTAL CONSULTANTS
OTTAWA " GATINEAU

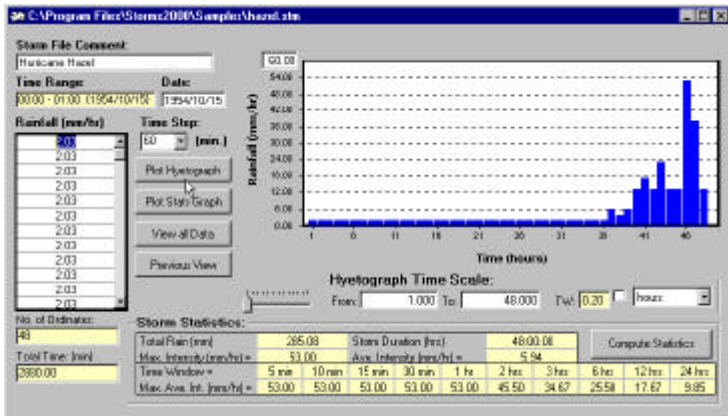
(877) SWM-HYMO
www.jfsa.com

Create, modify or develop design storms in seconds.

Plot your hyetographs in report ready charts with computed rainfall with computed rainfall statistics tables.

Update (or create your own) the database of meteorological stations.

Generate (or update) IDF curves for any return period greater than 1 year.



Station ID	Station Name	Province	Longitude	Latitude	Elev. (m)	Precip. Rec. Avail.
210070	TORONTO ST. PIERRE	ONT	-79.37	43.65	198	1954 1957 57
210072	TORONTO J.A.M. & BALDWIN	ONT	-79.21	44.3	151	1952 1967 10
210073	TORONTO PEARSON INTL AI	ONT	-79.29	43.19	155	1950 20 18
210080	TORONTO M.T. & S. STAN	ONT	-79.33	43.43	152	1956 1967 13
210084	TORONTO OLD WESTERN	ONT	-79.28	43.98	121	1968 1968 26
210087	TORONTO AIRPORT	ONT	-79.32	43.7	98	1968 1968 16
210090	TORONTO	ONT	-79.27	43.68	118	1965 1969 14
210093	WALKER LAKE	ONT	-79.28	43.57	208	1968 1969 18
210097	TORONTO YORK MILLS	ONT	-79.23	43.45	192	1969 1969 14
210106	CARVILLE ST. PARK	ONT	-79.28	43.58	98	1968 1969 12
210112	1. MCGILL & HAYDEN ST	ONT	-79.44	44.7	148	1968 1968 25
210119	PETERBOROUGH AIRPORT	ONT	-79.21	44.1	198	1971 1968 29
210140	PETERBOROUGH ST. STP	ONT	-79.18	44.17	192	1965 1968 26
210143	WEST BURLINGTON	ONT	-79.47	43.95	235	1972 1967 15
210159	CHARLESTON (BURTON) PARK	ONT	-79.18	43.55	112	1967 1968 18

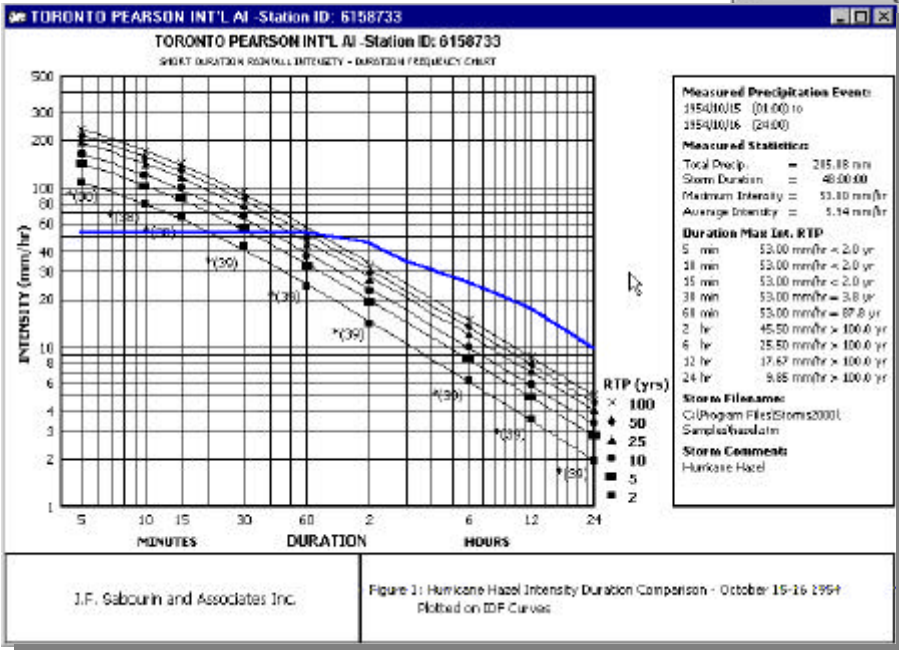


Figure 1: Hurricane Hazel Intensity Duration Comparison - October 15-16 1954 Plotted on IDF Curves

Plot IDF curves statistics on Log-Log graphs with choice of two equations.

Plot rainfall data statistics of real events over IDF curves to evaluate the return period.

Customize the output by adding your corporate logo.

STORMS²⁰⁰⁰

Ver:2.0.0

List of Features

DOWNLOAD A DEMO AT:
<http://www.jfsa.com/html/storms.htm>
 (approx. 8 megs)

STORM DATA AND DESIGN STORMS

- ✓ Edit, plot and save storm files for use with SWMHYMO, OTTHYMO and other hydrologic models.
- ✓ Generate, plot and save any of the following design storms:
 - Chicago;
 - SCS Type I, IA, II and III (6 and 12 hr durations);
 - AES 1 hr and 12 hr durations for any of the eight canadian regions;
 - Huff QI, QII, QIII, QIV for any duration.
- ✓ Import AES hourly precipitation data files for further analysis, plotting or exporting to manageable ASCII files.

METEOROLOGICAL STATION DATABASE

- ✓ Includes a database of more than 1200 canadian stations. Database contains: AES ID, station name, province, longitude, latitude, elevation, precipitation record availability.
- ✓ Locate the closest station to your project.
- ✓ Update (or create your own) the database with your own meteorological stations and precipitation records.

STATISTICAL COMPUTATIONS AND IDF CURVES

- ✓ Compute rainfall statistics for any event; (total rain, duration, average intensity, maximum intensities over 5, 10, 15, 30 minute and 1, 2, 3, 6, 12 and 24 hour durations.
- ✓ Generate (or update) IDF curves for any return period greater than 1.0 using a series of annual maximum intensities and the GEV distribution.
- ✓ Compare the rainfall statistics of an observed event and compute its return period from the IDF curves of a given station.

PLOTTING AND REPORTING

- ✓ Prepare report ready charts for hyetographs, IDF curves and rainfall statistics.
- ✓ Plot the maximum intensities of a measured or synthetic event on any set of IDF curves.