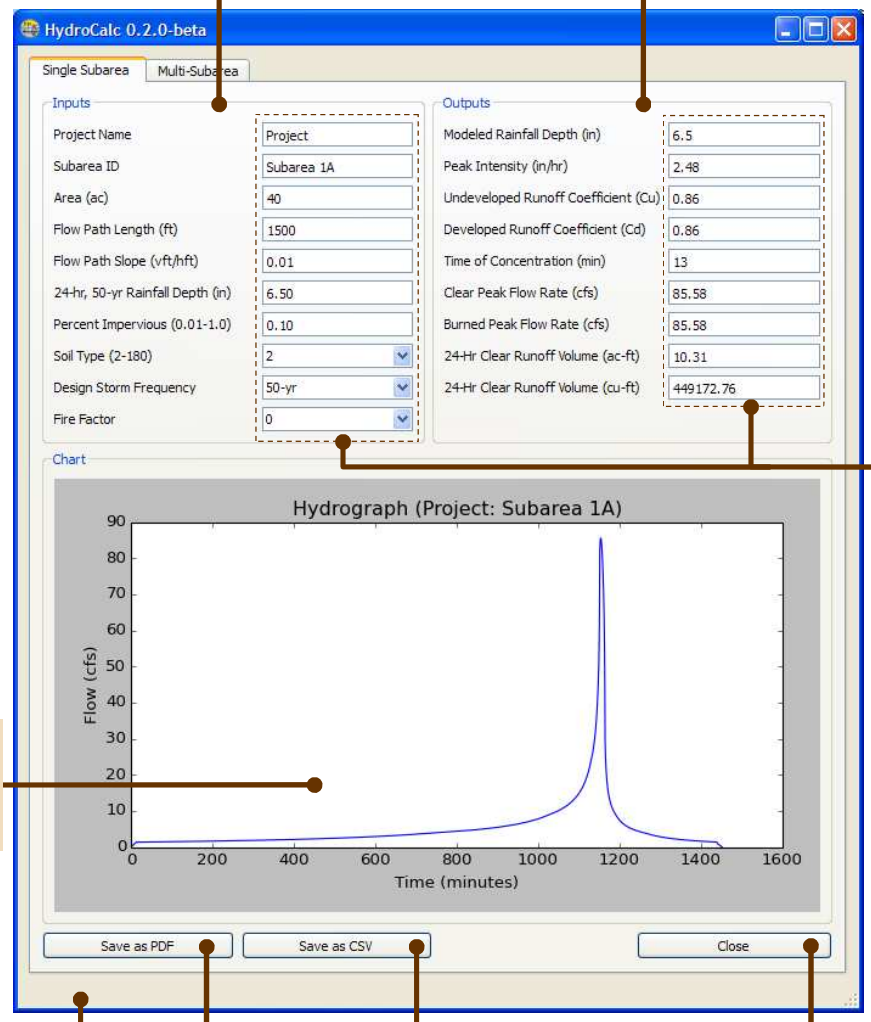
HYDROCALC QUICKSTART

Single Subarea Watershed — Interface Features

Main user interface area for inputting required values used in the Modified Rational Method.

Output calculations are performed in real time



Hover over for tool tips

Hydrograph chart updates in real time

Status/Error messages displayed here

Generates a comma-separated values text file containing inputs, outputs, and detailed hydrograph table.

Exit application

Creates a summary report of the inputs, outputs, and chart area.

Refer to County of Los Angeles Department of Public Works Hydrology Manual, 2006 for details on the Modified Rational Method

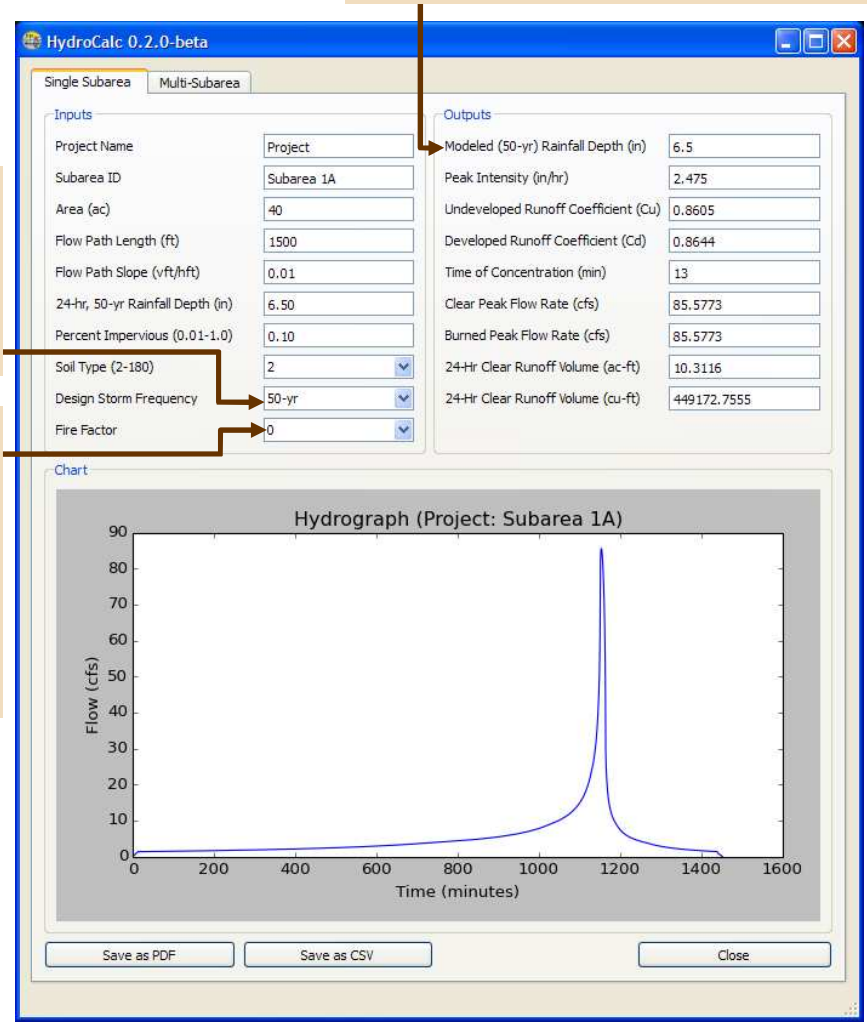
HYDROCALC QUICKSTART

Single Subarea Watershed — Noteworthy Details

Represents the rainfall depth after adjusting the 24-hr, 50-yr Rainfall Depth input value by the Design Storm Frequency multiplication factor, see Section 5.3 and Table 5.3.1 of the Hydrology Manual for details

Choose from: 1,2,5,10,25,50-yr or LID-related 0.75", 85th percentile frequencies

Choose from: 0, 0.34, 0.71, 0.83, SCR, LAR, SGR, Coastal fire factors, see Section 6.3 of the Hydrology Manual for details

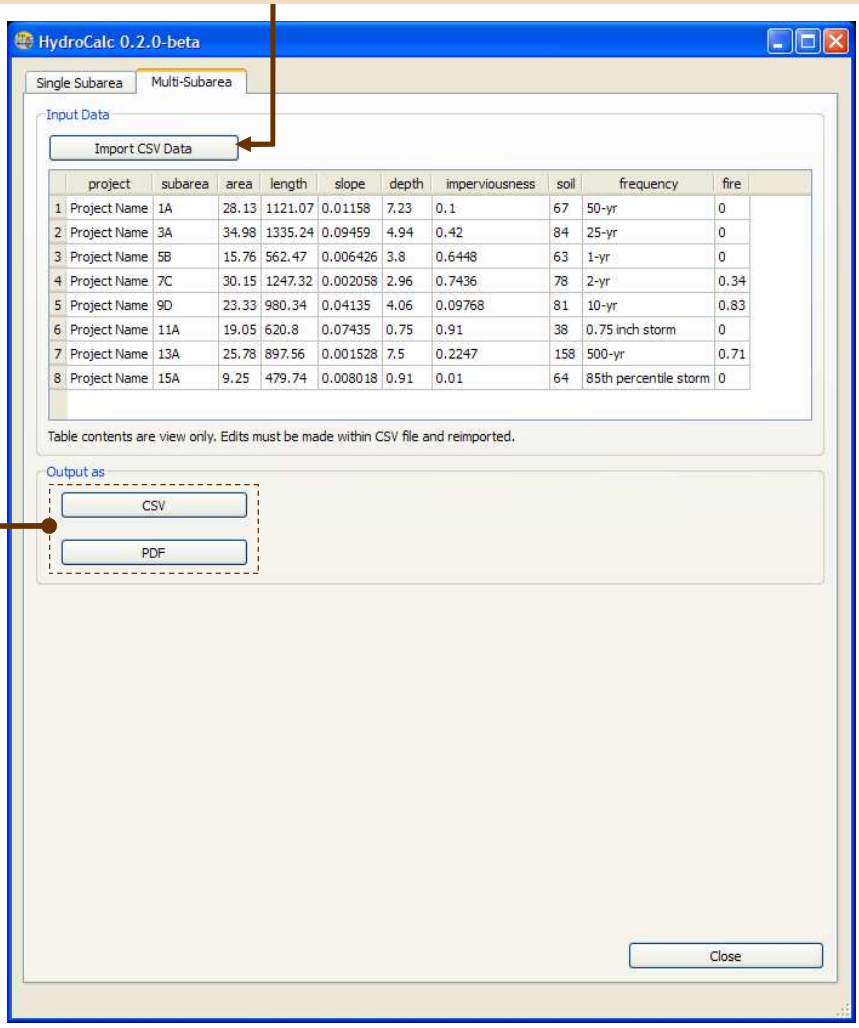


Refer to County of Los Angeles Department of Public Works Hydrology Manual, 2006 for details on the Modified Rational Method

HYDROCALC QUICKSTART

Multi-Subarea Watershed – Noteworthy Details

Step 1: Import a CSV file containing comma-separated parameters for each subarea. A sample input file is included in the installation package. Follow the template input file for best results. **Important**: the header of the input file must be exactly as shown , ie) project, subarea, area, etc...



	project	subarea	area	length	slope	depth	imperviousness	soil	frequency	fire
1	Project Name	1A	28.13	1121.07	0.01158	7.23	0.1	67	50-yr	0
2	Project Name	3A	34.98	1335.24	0.09459	4.94	0.42	84	25-yr	0
3	Project Name	5B	15.76	562.47	0.006426	3.8	0.6448	63	1-yr	0
4	Project Name	7C	30.15	1247.32	0.002058	2.96	0.7436	78	2-yr	0.34
5	Project Name	9D	23.33	980.34	0.04135	4.06	0.09768	81	10-yr	0.83
6	Project Name	11A	19.05	620.8	0.07435	0.75	0.91	38	0.75 inch storm	0
7	Project Name	13A	25.78	897.56	0.001528	7.5	0.2247	158	500-yr	0.71
8	Project Name	15A	9.25	479.74	0.008018	0.91	0.01	64	85th percentile storm	0

Step 2:
Choose the CSV button to save the calculation results as individual CSV files in a software generated "CSV_Results" folder at a user specified location
-or-
Choose the PDF button to save the results in a single PDF file located at a user specified location.

Refer to County of Los Angeles Department of Public Works Hydrology Manual, 2006 for details on the Modified Rational Method