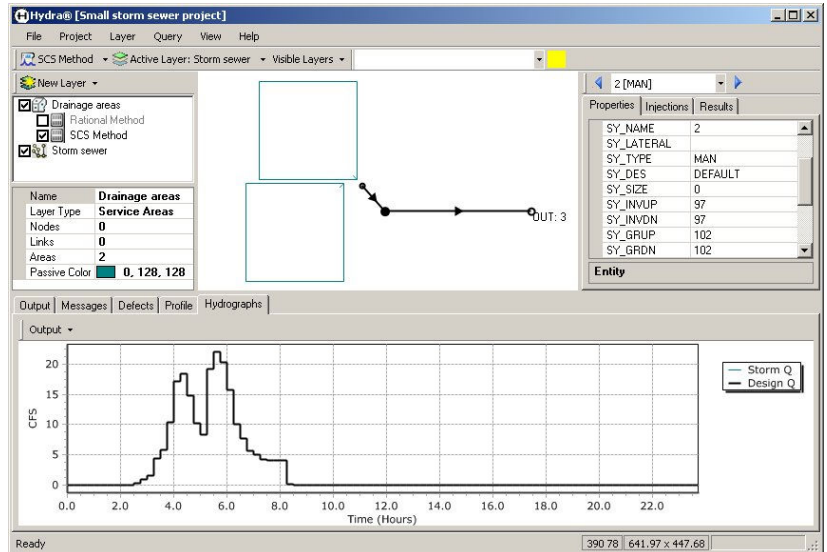


Version 7 Stormwater Modeling Features

Next-Generation Software for Storm and Sanitary Sewer Modeling

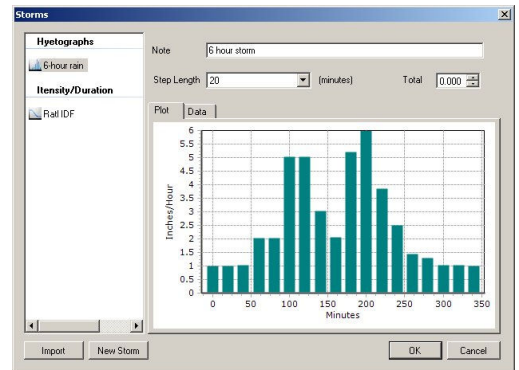
The flexible stormwater modeling features of the new Hydra® software version 7 are even easier to use, once again setting the standard in collection system modeling. Hydra is a stand-alone analytical geodatabase which works with both CAD and GIS data formats, giving you the ultimate flexibility, independence, and affordability for your next stormwater modeling project. Design features are automatic for both new and existing systems, putting optimum design efficiency at your command. Hundreds of consultants, cities, and agencies have standardized on Hydra's time-tested stormwater features. With 35 years of experience and the latest development platform, There is simply no other hydrology and hydraulics package as flexible, powerful, and easy to use as Hydra.



Simple to Sophisticated

Hydra offers a full spectrum of methods to define runoff characteristics and model stormwater runoff on any layer in the project.

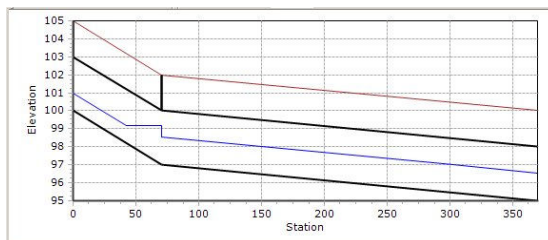
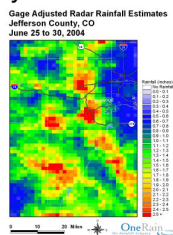
- **The Rational Method.** A simple way to use a rainfall intensity/duration/frequency (IDF) curve to find the peak rate of runoff. HYDRA improves on the traditional TR-55 method, creating runoff hydrographs for realistic routing through even the most complex collection system.
- **The SCS Method.** One of the most popular methods for municipalities, the Santa Barbara SCS method is more sensitive to small urban runoff basins.
- **True Hydrologic Simulation.** A highly sophisticated technique based on Crawford and Lindsey's Stanford Watershed Model, which is highly sensitive to land use changes and can be fully calibrated.



Rainfall hyetograph data input

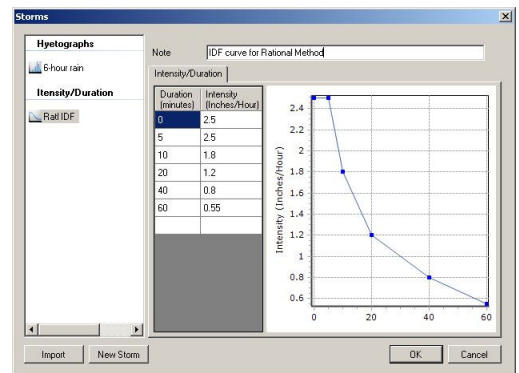
Radar Data Supported

For calibrating the model to actual rain events, you can use any number of rain gauges. Or you can use radar data calibrated to meters on the ground to most realistically test against historic storms. You can purchase radar rainfall data from OneRain (formerly NexRain) in a format ready for input in Hydra.



Radar rainfall data

Pipe profile and hydraulic gradeline display



Intensity/duration curve data input

