

DATABASE CONTENTS

In order to assist researchers in the select of possible network models for use in their research programs, a detailed spreadsheet database of the available data for each network file has been assembled. The attributes of the database are summarized below:

- Spatial Data
 - Geometric data
 - Elevation data
 - GIS shapefile
 - Background map

- Demand Data
 - Total system demand
 - Temporal demand curves
 - System leakage

- Pipe Data
 - Pipe diameter
 - Pipe diameter type (nominal or actual)
 - Pipe wall thickness
 - Pipe material
 - Pipe age
 - Pipe pressure class
 - Number and type of pipe fittings
 - Calibrated pipe roughness
 - Calibrated water quality parameters
 - Customers per pipe
 - Estimated pipe leakage
 - Prior break history

- Junction Node Data
 - Elevation data
 - Coordinate data
 - Nodal demand data

- Pump Data
 - Pump type
 - Coordinate data
 - Elevation data
 - Pump horsepower

- Pump operating curves
- Tank Data
 - Tank type
 - Coordinate data
 - Elevation data
 - Tank volume
 - Tank storage curve
 - Water quality data
 - Maximum elevation
 - Minimum elevation
- Reservoir Data
 - Reservoir type
 - Coordinate data
 - Water surface elevation
 - Water quality data
- Control Valves (PRVs, PSVs, FCVs)
 - Type of valve
 - Coordinate data
 - Elevation data
 - Operating set points
- Isolation valves
 - Type of valve
 - Coordinate data
 - Minor loss coefficient
- Hydrant data
 - Type of hydrant
 - Coordinate data
 - Elevation data
- Operational Data
 - Temporal demand data
 - Pump operational rules
 - Tank operational rules
 - SCADA data

- Water Quality Data
 - Disinfection method
 - Source concentration
 - Single or multi-species

- Booster Disinfection Station
 - Coordinate data
 - Source concentration