



# **Hydrologic Information Center Web Site**



# What is the HIC?

- Web site that disseminates hydrologic data

# Where does the data come from?

- Gauges include:
  - Crest/staff gauges
  - Precipitation gauges
  - Stream flow gauges
  - Water temperature recorders
- A few gauges are telemetered
- Most gauges' data is downloaded during field visits

# What parameters are collected?

- Stream flow-discharge
- Precipitation
- Air temperature
- Water temperature
- Turbidity
- Data is stored in a large SQL database

## Existing HIC

- Web page outdated
- Maps not current
- Used ftp server for prepackaged data
- Hydrologists field custom data requests

# HIC Upgrades

- Increase efficiency of gauge database
- New Web interface
  - Allow users to query database and download data

# Architecture

- SQL Database Back End
- ASP.NET Front End
- C# Language

# Database

- Rebuilt to increase efficiency
  - Combine separate year tables into all years for each parameter
  - Indexes
- Moved to new SQL server
  - (DualXeon with 4x the Memory –considerably faster/more capable than the old Server)

# Web Interface

- ASP.NET
- HTML like front
- C# code behind
- Object oriented
- Very powerful and flexible
- Code recyclable
- Future applications

# Future Upgrades

- I Map feature