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- Web page outdated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