

## USGS WATER RESOURCES ONLINE

### PLACES TO START

USGS Water home page	<a href="http://water.usgs.gov/">http://water.usgs.gov/</a>
USGS Water data page	<a href="http://water.usgs.gov/data/">http://water.usgs.gov/data/</a>
USGS Publications Warehouse	<a href="http://pubs.er.usgs.gov/">http://pubs.er.usgs.gov/</a>
USGS National Real-Time Water Quality	<a href="http://nrtwq.usgs.gov/">http://nrtwq.usgs.gov/</a>
USGS Water Science Centers	<a href="http://xx.water.usgs.gov/">http://xx.water.usgs.gov/</a> (where “xx” is two-letter State code)

### USGS WATER DATA

NWIS-Web	<a href="http://waterdata.usgs.gov/">http://waterdata.usgs.gov/</a>
NWIS-Web is the general online interface to the USGS National Water Information System (NWIS). Discrete water-sample and time-series data from 1.5 million sites in all 50 States. Results from 5 million water samples with 90 million water-quality results are available from a wide variety of retrieval methods including standard and customized map interfaces. Time-series retrievals include instantaneous measurements back to October 2007, soon to include the longer historical record.	
BioData	<a href="http://aquatic.biodata.usgs.gov/">http://aquatic.biodata.usgs.gov/</a>
Access to results from more than 15,000 macroinvertebrate, algae, and fish community samples from more than 2,000 sites nationwide.	
StreamStats	<a href="http://streamstats.usgs.gov/ssonline.html">http://streamstats.usgs.gov/ssonline.html</a>
A map-based tool that allows users to easily obtain streamflow statistics, drainage-basin characteristics, and other information for user-selected sites on streams.	
Water Quality Portal	<a href="http://www.waterqualitydata.us/">http://www.waterqualitydata.us/</a>
A cooperative service sponsored by USGS, EPA, and NWQMC that integrates publicly available water-quality data from the USGS NWIS database and the EPA STORET data warehouse.	
NAWQA Data Warehouse	<a href="http://water.usgs.gov/nawqa/data.html">http://water.usgs.gov/nawqa/data.html</a>
A collection of chemical, biological, and physical water quality data used in the National Water Quality Assessment (NAWQA) program, drawn partly from NWIS and BioData.	

### DATA SERVICES

WaterAlert	<a href="http://water.usgs.gov/wateralert/">http://water.usgs.gov/wateralert/</a>
The WaterAlert system can send you email or text messages when certain time-series measurements at USGS sites exceed user-definable thresholds. Links are also provided from graphs in NWIS-Web.	
Web Services	<a href="http://waterservices.usgs.gov/">http://waterservices.usgs.gov/</a>
A set of automated methods for quickly retrieving USGS data in standardized formats.	

### SNAPSHOTS, ANALYSIS, AND EXPLORATION OF USGS WATER DATA

WaterWatch	<a href="http://waterwatch.usgs.gov/">http://waterwatch.usgs.gov/</a>
WaterQualityWatch	<a href="http://waterwatch.usgs.gov/wqwatch/">http://waterwatch.usgs.gov/wqwatch/</a>
GroundwaterWatch	<a href="http://groundwaterwatch.usgs.gov/">http://groundwaterwatch.usgs.gov/</a>
WaterWatch and its sister websites for water quality and groundwater are used to provide a snapshot of conditions for the Nation or for individual States. WaterQualityWatch allows the user to see a snapshot of conditions for individual water-quality parameters (temperature, pH, turbidity, etc.).	

NRTWQ <http://nrtwq.usgs.gov/>

The page is a handy access point to WaterQualityWatch, NWIS-Web, and a network of real-time measured *and computed* water-quality data. This site uses models and continuous measurements of key parameters to predict time-series of other parameters that normally are only analyzed from discrete water samples.

USGS Data Grapher <http://or.water.usgs.gov/grapher/>

A set of Internet-based tools that allows users to access high-frequency time-series data—including water-quality, meteorological, streamflow, and other data—and quickly create customized graphs, color maps, and tables. This tool is not yet available nationwide, but is set up in Oregon, Idaho, California, and Tennessee, with more to come.

## **OTHER USGS WATER RESOURCES**

USGS Field Procedures <http://water.usgs.gov/owq/Fieldprocedures.html>

A compilation of links to standard methods, procedures, and protocols used by USGS personnel.

USGS National Field Manual <http://water.usgs.gov/owq/FieldManual/>

The National Field Manual is an online and continuously updated manual of standard data-collection methods and procedures developed and used by USGS personnel. These uniform procedures ensure the consistency, representativeness, and comparability of USGS data across the Nation, and are a valuable resource for other groups doing similar work.

USGS Software and Models <http://water.usgs.gov/software/>

A repository of models and software developed by USGS.

DOTABLES <http://water.usgs.gov/software/DOTABLES/>

An on-line program that generates tables of dissolved oxygen solubility values and/or salinity correction factors over a range of user-specified values for water temperature, barometric pressure, and salinity or specific conductance.

SPARROW DSS <http://cida.usgs.gov/sparrow/>

The decision-support system interface for USGS SPARROW models, which allows users to gain insights into spatial patterns in the loads of many water-quality parameters such as nitrogen and phosphorus in major river basins.

NAWQA Program <http://water.usgs.gov/nawqa/>

The USGS National Water Quality Assessment program assesses the status and trends of water quality in the Nation's waters and provides process-based research and tools to better understand and manage those resources.

Toxics Program <http://toxics.usgs.gov/>

The Toxic Substances Hydrology Program provides objective scientific information on environmental contamination to improve characterization and management of contaminated sites, to protect human and environmental health, and to reduce potential future contamination problems.

National Research Program <http://water.usgs.gov/nrp/>

The National Research Program conducts basic and problem-oriented hydrologic research in support of the mission of the USGS.

Water Science for Schools <http://water.usgs.gov/droplet/>

A nice educational resource about the water cycle, water resources and quality, including information, data, maps, and interactive activities.