



WEATHER AND RIVER FORECAST INFORMATION

Compiled November 2015

NOAA National Weather Service	Interactive Forecast Map	An interactive map that provides weather and hydrologic forecasts, watches & warnings, advisories, and current conditions.	http://www.weather.gov/
	Advanced Hydrologic Prediction Service	Web-based suite of forecast products that display magnitude and uncertainty of flood or drought occurrence in advance. Graphical products are useful planning tools to enable users to make more informed decisions about risk-based policies and actions to mitigate dangers posed by floods and droughts.	http://water.weather.gov/ahps/region.php?state=id
	River Forecast Centers	Provide flood and water resources data for Columbia River (all of Idaho except Bear River Basin) and Colorado River basins (encompasses Bear River Basin). Includes observed and forecast river conditions, peak flow information, flood and hydrologic outlooks.	Northwest River Forecast Center http://www.nwrfc.noaa.gov/rfc/ Columbia Basin River Forecast Center http://www.cbrfc.noaa.gov/
	Precipitation Frequency Data Server	Delivers NOAA precipitation frequency estimates for points across the United States (precipitation duration and recurrence interval information).	http://hdsc.nws.noaa.gov/hdsc/pfds/index.html
U. S. Geological Survey	Streamflow Information Program	Allows users to view and download real-time streamflow information at stream gages across the U.S. Includes links to forecasts for stream gages.	http://waterdata.usgs.gov/nwis/rt/
	Flood Alert Tools	USGS Water Watch displays maps, graphs, and tables describing real-time, recent, and past streamflow conditions for the U.S. USGS Water Alert sends e-mail or text (SMS) messages when certain parameters, such as flow measured by a USGS stream gage, exceed user-definable thresholds.	http://waterwatch.usgs.gov/ http://water.usgs.gov/wateralert/
USDA Natural Resources Conservation Service	Water and Climate Center – Water Supply Forecasts	Describes water supply information and reports available from the Natural Resources Conservation Service and where to find them.	http://www.wcc.nrcs.usda.gov/wsf/index.html



USDA Natural Resources Conservation Service Idaho Snow Survey Program

Where to find information on our ever changing water supply conditions:

The Natural Resources Conservation Service (NRCS) Snow Survey is responsible for coordinating the cooperative Snow Survey Program in the West and providing water supply forecasts for public dissemination.

Idaho NRCS maintains a network of 82 automated SNOTEL (SNOW TELEmetry) stations in Idaho and 118 in our jurisdiction that covers all of Idaho and the area north of Spokane, WA to Pinedale, WY to Jarbidge, NV. This is part of the SNOTEL network NRCS maintain with over 850 automated sites in the West including Alaska. The Idaho has another 100 manually measured snow courses measured at the end of the month.

The majority of snow measuring stations are located in remote mountainous areas where the winter snowpack accumulates to provide our streamflow for life in the West. A SNOTEL site is an unstaffed automated weather station that transmits hourly climatological conditions.

The standard parameters monitored at SNOTEL sites are: snow water equivalent, precipitation, air temperature (maximum, minimum and average), and most of them also have a snow depth sensor placed over the snow water content sensor.

Approximately 57 of the 118 SNOTEL sites monitors in Idaho also have Enhanced Sensors that include: soil moisture and soil temperature at 2-, 8- and 20-inches deep, while a few sites also have wind speed and direction, relative humidity and solar radiation.

Idaho NRCS home internet web page is: <http://www.nrcs.usda.gov/wps/portal/nrcs/site/id/home/>

The **NRCS Snow Survey** home page is: <http://www.nrcs.usda.gov/wps/portal/nrcs/main/id/snow/>

The **Current Water Year** page links to a popular product, the daily SNOTEL Update Report: http://www.nrcs.usda.gov/wps/portal/nrcs/detail/id/snow/products/?cid=nrcs144p2_047788

Also on the **Current Water Year** page are maps illustrating current water year conditions.

This report provides today's snow water content and precipitation as a percent of normal. <http://www.wcc.nrcs.usda.gov/reports/UpdateReport.html;jsessionid=tMN+dI7IjZFMgQhm5yJa-Hvr?report=Idaho>

Water Supply - Water supply forecasts are issued the first week of each month January – June and summarized in a monthly report. If you wish to receive an email notification when the report is available, please send an email to us: IDBOISE-NRCS-SNOW@one.usda.gov.

Also available on this page is the **Surface Water Supply Index (SWSI)** that combines current reservoir storage and streamflow forecasts to illustrate the potential when agricultural shortages may occur.

Reservoir Storage - Monthly analysis reports for Idaho's federal and privately operated reservoirs are available at:

<http://www.nrcs.usda.gov/wps/portal/nrcs/detail/id/snow/waterproducts/?cid=stelprdb1143425>

Peak Streamflow Information - Snow-Stream comparison graphs along with streamflow graphs with a similar year and summer projections are on this page.

Historic Data – Historic monthly and daily data is on this page along with snow indexes or on this point and click map: **Clickable Map, Idaho and Nearby SNOTEL Site Data**

For more information please contact your local NRCS Field Office or the Snow Survey Staff at 9173 W. Barnes Drive, Suite C, Boise Idaho 83709, (208) 378-5740