

Main Page. The Water Supply Forecast Tracking Tool (WSFTT) consists of four charting tools which allows the user to access: 1) current and historic seasonal water supply forecasts issued by the National Water and Climate Center of the Natural Resource Conservation Service; 2) measured stream flow at select locations in the basin and Upper Klamath Lake levels; 3) a comparison between historic seasonal water supply forecasts volumes and actual measured runoff volumes; and 4) probable future monthly runoff volumes estimated by apportioning the seasonal water forecast volume according to the observed runoff patterns. The four charting tools can be access by clicking on the type of chart on the right hand side of the web page, through the quick links, or through the interactive watershed viewer. The charting tools are intended to demonstrate how seasonal water supply forecast information based on statistical models and actual measured environmental data can be integrated. The WSFTT is automatically updated daily by retrieving measured stream flow and Upper Klamath Lake levels from the National Water Information Network operated by the United State Geological Survey and monthly by retrieving seasonal water supply forecasts from the National Water and Climate Center of the Natural Resource Conservation Service ftp site.

Links to Government agencies web sites

Quick links to key information at gaging stations

Chart current and historic water supply forecast volumes

Compare forecast and measured water supply volumes

Chart future runoff using forecast volume and historic runoff pattern at a gage

Chart daily lake level or river discharge at a gage location

Water Supply Forecast Tracking Tool (WSFTT)

Water supply forecasts are issued by the Natural Resources Conservation Service (NRCS), National Water and Climate Center. The forecasts are issued beginning in January of each year at the first of the month for the water supply season (through September). These forecasts are based upon multiple linear regression models using measured information at various locations throughout the Klamath Basin. The purpose of the WSFTT is to integrate forecast information issued by the NRCS and measured streamflow information, usually collected by the United States Geological Survey (USGS), as a qualitative assessment of the forecast information.

- Upper Klamath Lake near Klamath Falls, Oregon
 - Latest forecast for the current year
 - Current year 50-percent exceedance forecast
- Williamson River below Sprague River near Chiloquin, Oregon
 - Latest forecast for the current year
 - Current year 50-percent exceedance forecast
 - Forecast and observed volumes by year
- Sprague River near Chiloquin, Oregon
 - Latest forecast for the current year
 - Current year 50-percent exceedance forecast
 - Forecast and observed volumes by year
- Daily Hydrologic Data Charts
 - Upper Klamath near Klamath Falls, Oregon Lake Elevations
 - Streamflow rates, Sprague River near Chiloquin, Oregon
 - Williamson River below Sprague River near Chiloquin, Oregon streamflow rates

Select a link or image to create a chart in a new tab or window.

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Charting Tool No. 1 – Accessing Current and Historic Seasonal Water Supply Forecasts. *The “value” of Charting Tool No. 1 is the ability to compare the current seasonal water supply forecast volume issued by the National Water and Climate Center of the Natural Resource Conservation Service to previous years including years of drought like 2001 by toggling between years using the pull down menu (see below).* Charting Tool No. 1 provides access to current and historic seasonal water supply forecasts issued by the National Water and Climate Center of the Natural Resource Conservation Service. The information presented is the same probability charts as presented by the Natural Resources Conservation Service (http://www.wcc.nrcs.usda.gov/cgibin/strm_chn.pl). The advantage of Charting Tool No. 1 is that multiple probability charts can be displayed on the same chart and comparison between years is possible.

Klamath Basin Water Supply Forecast Tool - Windows Internet Explorer

http://wsftt.klamathdss.org/wsftt_ve.php

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Klamath Basin Water Supply Forecast Tool

Upper Klamath Lake near Klamath Falls Oregon

USGS Station Number 11507001
April to September Forecast Volumes - Last issued forecast for 2010

Exceedance Frequency in Percent	Volume in Thousand Acre Feet
95	205
70	275
50	310
30	345
05	415

Volume in Thousand Acre Feet

Exceedance Frequency in Percent

95 70 50 30 05

205 275 310 345 415

Upper Klamath Lake near Klamath Falls Oregon

from 2010 to 2010 using Last Forecast of Year

Chart type: Column 2D Size: 640 x 480

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Use this pull down menu to change the forecast location.

Select the range of years for the seasonal water supply forecast. You can display the seasonal forecast for more than one year on the same graph. Use the pull down menu to select the year to begin and end.

Use this pull down menu to change the type of chart.

This is the forecast volume for the season you selected.

This is the likelihood or chance of receiving the amount (415,000 acre-feet) or a greater amount of water.

Use the pull down menu to select the period for the seasonal water supply (probabilistic) forecast.

Press to see the available seasonal water supply forecast periods.

You must press submit to display the new chart after changing one or multiple pull down menus

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Charting Tool No. 2 – Compare Seasonal Water Supply Forecast Volumes and Observed (Measured) Runoff Volumes for the Same Period. *The “value” of Charting Tool No. 2 is the ability to compare the volume of water actually measured in the river at a location, to the amount that was forecast for the same period of time by the National Water and Climate Center of the Natural Resource Conservation Service. You can also use this tool to compare which probabilistic forecast has “best” matched the measured runoff volume.* Charting Tool No. 2 is available for three locations; 1) Upper Klamath Lake; 2) the Williamson River below the Sprague River; and 3) the Sprague River at Chiloquin, Oregon. Observed runoff volumes are actual volumes measured by the U.S. Geological Survey and are lacking for Upper Klamath Lake because there is no stream flow measurement at this location. This charting tool allows the user to compare the seasonal water supply forecast volumes for different periods to the measured runoff volumes for the same period, giving a relative sense of the accuracy of the seasonal water supply forecasts. Multiple seasonal water supply forecasts are issued for the same period each year. Forecasts are issued near the beginning of each month by the National Water and Climate Center. Observed flows are automatically computed from the U.S. Geological Survey gaging information at the end of each month from the daily values.

Klamath Basin Water Supply Forecast Tool - Windows Internet Explorer

http://wsftt.klamathdss.org/wsftt_vt.php?gs=11502500&tn=apr-sep&y1=2007&y2=2010&pe=mid_vol&ao=1&ct=Column2D&cw=640&ch=350

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Klamath Basin Water Supply Forecast Tool

Williamson River below Sprague River near Chiloquin Oregon

USGS Station Number 11502500
April to September 50-Percent Exceedance Probability Forecast Volumes

Month and Year of Issued Forecast	Forecast (Thousand Acre Feet)	Total observed from April to September (Thousand Acre Feet)
Jan 2007	340	250
Feb 2007	250	250
Mar 2007	250	250
Apr 2007	250	250
May 2007	250	250
Jun 2007	250	250
Jan 2008	350	350
Feb 2008	350	350
Mar 2008	350	350
Apr 2008	350	350
Jan 2009	350	350
Feb 2009	350	350
Mar 2009	350	350
Apr 2009	350	350
Jan 2010	350	350
Feb 2010	350	350
Apr 2010	350	350

Volume in Thousand Acre Feet

Month and Year of Issued Forecast

● Forecast ● Total observed from April to September

Williamson River below Sprague River near Chiloquin Oregon | April to September

from 2007 to 2010 at 50-percent exceedance

Chart observed volumes? Yes Chart type: Column 2D Size: 640 x 350

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Use this pull down menu to change the forecast location.

Select the range of years for the seasonal water supply forecast. You can display the seasonal forecast for more than one year on the same graph. Use the pull down menu to select the year to begin and end.

Use this pull down menu to either display or not display the observed runoff volumes.

Forecast volume for the period selected. Comparing the same color columns shows how successive forecasts for the same period have been revised.

Observed runoff for the forecast period your selected measured at the USGS gage.

Use this pull down menu to display different exceedance probabilities. Only one can exceedance probability can be displayed at a time.

Use the pull down menu to select the period for the seasonal water supply (probabilistic) forecast.

Press to see the available seasonal water supply forecast periods.

You must press submit to display the new chart after changing one or multiple pull down menus.

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Charting Tool No. 3 – Estimate Future Monthly Runoff Volume using the Seasonal Water Supply Forecast Volume and Observed Runoff Volumes. *The “value” of Charting Tool No. 3 is the ability to view the actual measured monthly runoff volume to date at a location and to obtain a qualitative sense of the possible future monthly volume, assuming the amount of runoff is equal to the forecast volume and the pattern of runoff is similar to previous years and hydrologic conditions.* Charting Tool No. 3 provides information to the user about the probable (future) monthly runoff volume. The probable monthly runoff volume is estimated using two pieces of information: 1) the seasonal water supply forecast issued by the National Water and Climate Center of the Natural Resource Conservation Service; and 2) the pattern of monthly runoff volumes for differing types of hydrologic years (e.g., a dry year) observed at a U.S. Geological Survey gage location. The total seasonal water supply forecast volume is apportioned to each month based on the historic monthly runoff pattern from the U.S. Geological Survey gage. The charting tool automatically adjusts the shape of the historic monthly runoff pattern depending upon the type of water year. The shape is flatter for dry years and more peaked for wet years. Classification of the water year type is the same as described in the 2008 Operating Plan for the Klamath Project. The charting tool automatically updates the observed runoff volume measured at the U.S. Geological Survey Gage, using the interim daily discharge estimates.

Klamath Basin Water Supply Forecast Tool - Windows Internet Explorer

http://wsftt.klamathdss.org/wsftt_vy.php?gs=11501000&tn=apr-sep&im=2&y1=2010&y2=2010&pe=low_vol&ct=M5Column2DLineDY&sm=1

SnagIt

Klamath Basin Water Supply Forecast Tool

Sprague River near Chiloquin Oregon

USGS Station Number 11501000
April to September Forecast for Upper Klamath Lake

Month and Year	Observed Volume (TAF)	Forecast Volume (TAF)
Jan 2010	20	-
Feb 2010	20	-
Mar 2010	25	-
Apr 2010	-	135
May 2010	-	80
Jun 2010	-	70
Jul 2010	-	40
Aug 2010	-	45
Sep 2010	-	50

Observed Forecast monthly value based on historic runoff pattern

Sprague River near Chiloquin Oregon | April to September

Forecast issued in February 2010 at 50-percent exceedance

Chart type: 2D with Line | Size: 640 x 480

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This is the observed (measured) monthly runoff volume at the U.S. Geological Survey gage. It is the sum of the daily values and is automatically updated at the end of each month.

Use this pull down menu to change the location.

Select the range of years for the seasonal water supply forecast. You can display the seasonal forecast for more than one year on the same graph. Use the pull down menu to select the year to begin and end.

Use this pull down menu to change the type of chart.

This is the estimated future forecast monthly runoff volume based on the historic runoff pattern from the U.S. Geological Survey gage, the type of water year and the seasonable forecast issued by the NRCS. Click [here](#) to see a typical historic runoff pattern.

Use the pull down menu to select the period for the seasonal water supply (probabilistic) forecast.

Press to see the available seasonal water supply forecast periods.

Use this pull down menu to display different exceedance probabilities. Only one can be exceedance probability can be displayed.

You must press submit to display the new chart after changing one or multiple pull down menus.

Charting Tool No. 4 – Show Real-time Observed (Measured) Runoff Volumes and Lake Levels. *The “value” of Charting Tool No. 4 is the ability to view the measured daily runoff volume or lake elevation on a real-time basis, without having to leave the Klamath DSS.* Charting Tool No. 4 provides access to the daily stream flow (current and historic) measured at select U.S. Geological Survey gages and the water level of Upper Klamath Lake. Presently only select gages are available for charting. The average daily stream flow is update automatically at the end of each day by the charting tool. These are the same data that can be accessed through the U.S. Geological Survey NWIS and Bureau of Reclamation Hydromet sites.

Williamson River below Sprague River near Chiloquin Oregon

USGS Station Number 11502500
Daily Observed Data

Mean Daily Flow in Cubic Feet per Second (CFS)

Date

Williamson River below Sprague River near Chiloquin Oregon

Jan 1 2010 to Apr 24 2010

Chart line only Chart type: Line Size: 640 X 480

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Use this pull down menu to change the location.

Use the pull down menu to select the beginning of the period of time you would like to see on the chart.

Use this pull down menu to change the type of chart.

The average daily discharge at the gaging station or within Upper Klamath Lake is shown on the chart.

Use the pull down menu to select the end of the period of time you would like to see on the chart.

Use this pull down menu to change the size of the chart

You must press submit to display the new chart after changing one or multiple pull down menus.