

# Oregon

## Water Conditions Report

### September 19, 2016

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**Precipitation was below normal in most areas of the state during the month of August.**

The northwest corner and north central parts of the state received close to average amounts of precipitation, with below average conditions for this time of the year through the rest of the state. Climate models are now indicating the likelihood of ENSO-Neutral conditions for later in 2016. For the Northwest, this means that an equal likelihood exists for above average or below average precipitation in coming months.

**Above average temperatures are expected to continue through September.**

Temperatures in August were average in central Oregon and 1 to 3 degrees above normal in western Oregon and parts of northern Malheur County. The National Oceanic and Atmospheric Administration's Climate Prediction Center continues to predict increased odds of warmer than normal conditions for the rest of the summer and early fall.

**Streamflows continue to fare better overall in 2016 than in 2015.** Statewide average streamflows for August were at 65 percent of normal. This was better than 50 percent of normal seen last year at this time. Flows continued a typical downward trend throughout the month after the brief respite brought about by July's cooler temperatures and precipitation. The Hood, Klamath and Mid Coast Basins, all above 80 percent of normal, are faring the best. The most stressed basins are the Umatilla, John Day, Powder, Malheur River, and Malheur Lake Basins.

**Statewide reservoir storage on September 1 was at 37 percent of useable capacity.** This represents 69 percent of average for this time of year. Last year at this time reservoirs were at 23 percent of capacity and 43 percent of average. Please refer to the teacup diagrams for specific project information.

**The Drought Monitor shows 100 percent of the state abnormally dry.** As of September 13, the entire state is in the D0 category (abnormally dry). The North Coast, Mid Coast and Eastern Oregon regions, representing approximately 50 percent of the state, are also listed in the D1 category (moderate drought). Further, 12 percent of the state, including portions of Umatilla, Baker, Grant, and Union Counties are now listed in the D2 category (severe drought). Soil moisture models continue to indicate drier than normal conditions within these areas.

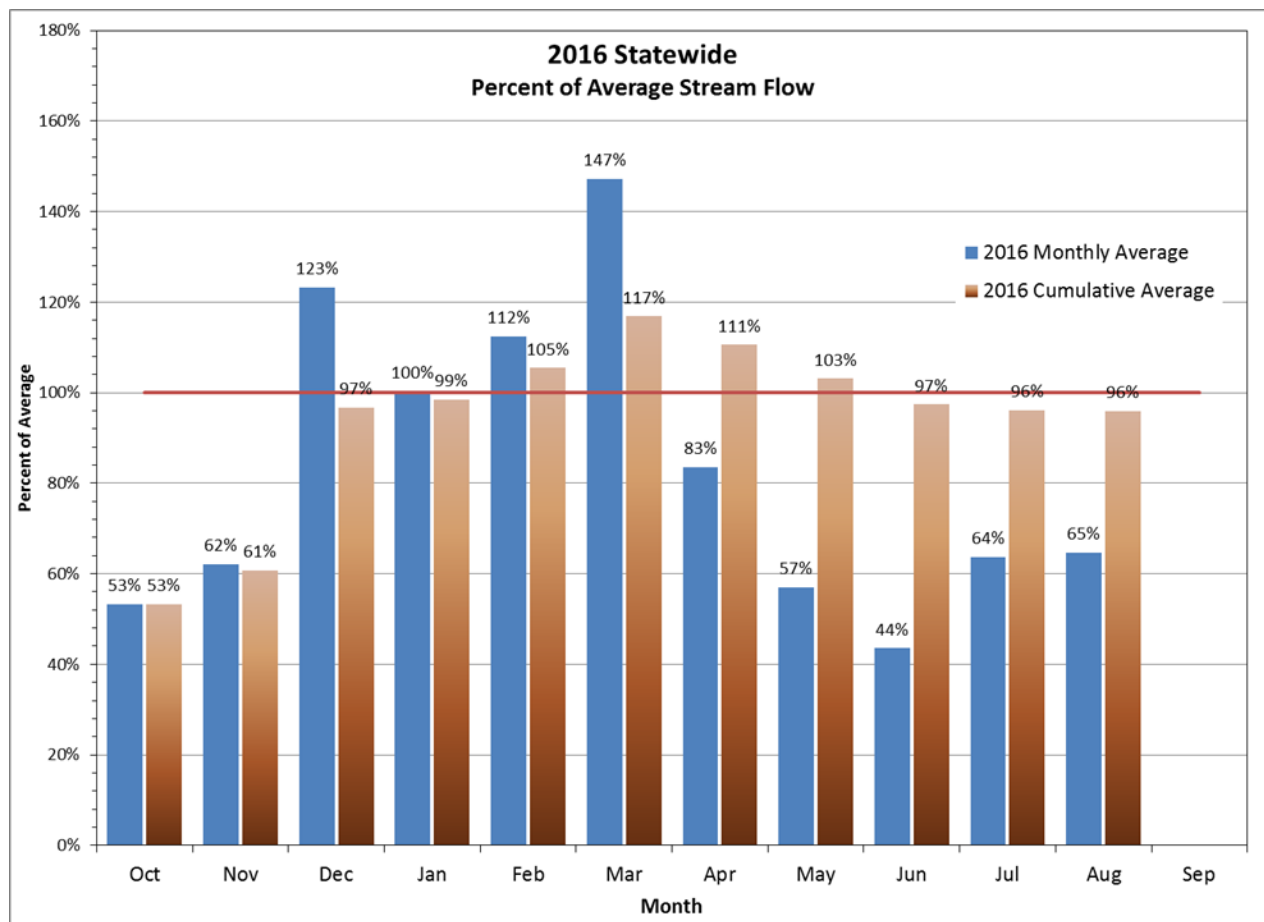
**Fire potential is currently near normal-to-above normal for most of Oregon.** Compared to last year, there have been far fewer acres burned from wildfire in 2016. Much of this is due to fewer than normal lightning events. Rainfall and cooler temperatures in July also temporarily improved the fire outlook. However, due to lack of precipitation and a return to average temperatures in August, most areas in the state have returned to normal or above normal fire conditions. The National Interagency Fire Center's (NIFC) monthly outlook indicates mostly normal fire potential through September. The Oregon Department of Forestry would like to remind everyone that fire season remains in effect with conditions still dry and susceptible to fire starts. Backyard debris burning and dispersed campfires remain prohibited throughout much of the state. Check with your local ODF office for restrictions in your area or visit [ODF's fire restrictions web page](#) for more information.

## Data & Products:

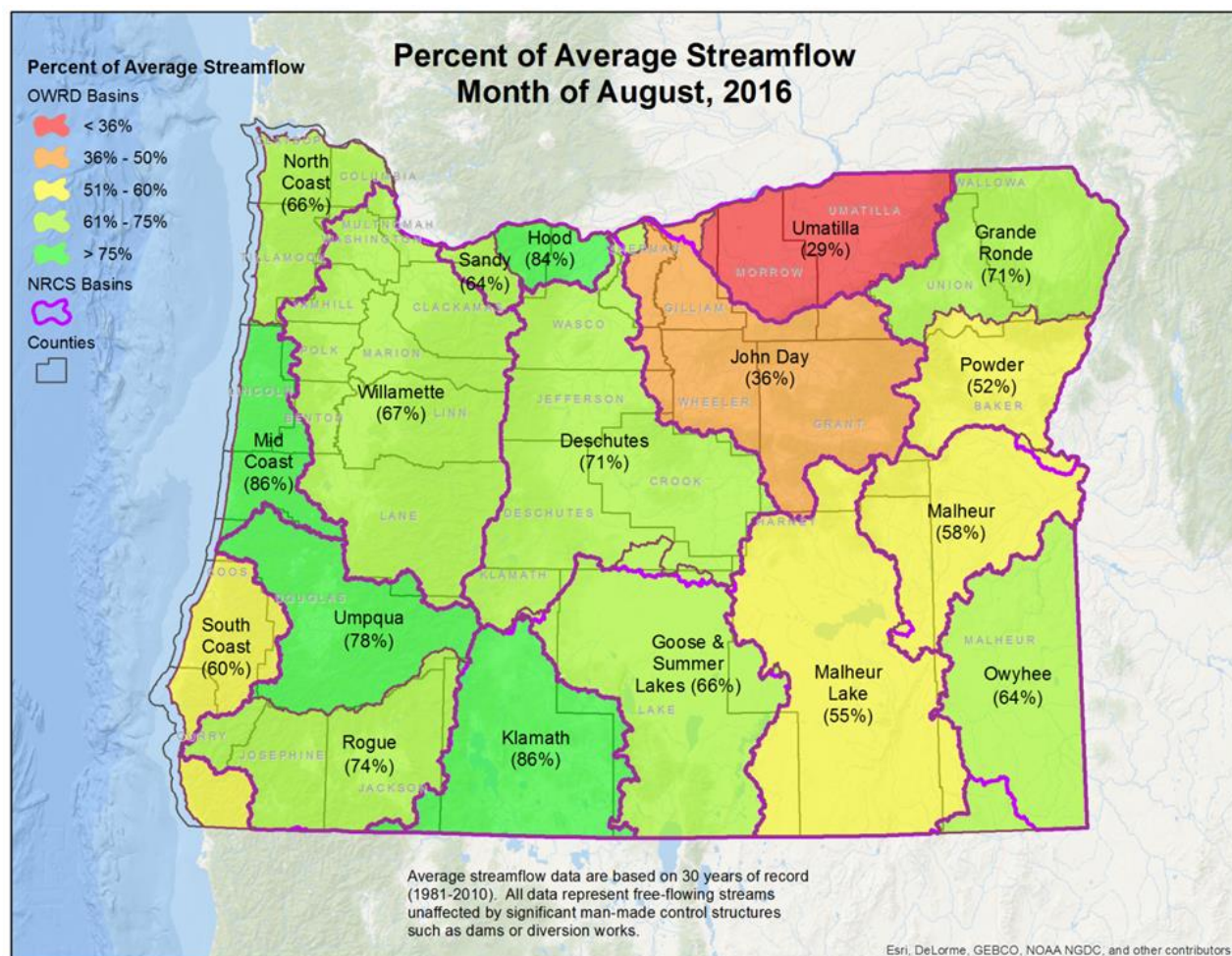
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## Statewide Streamflow Conditions



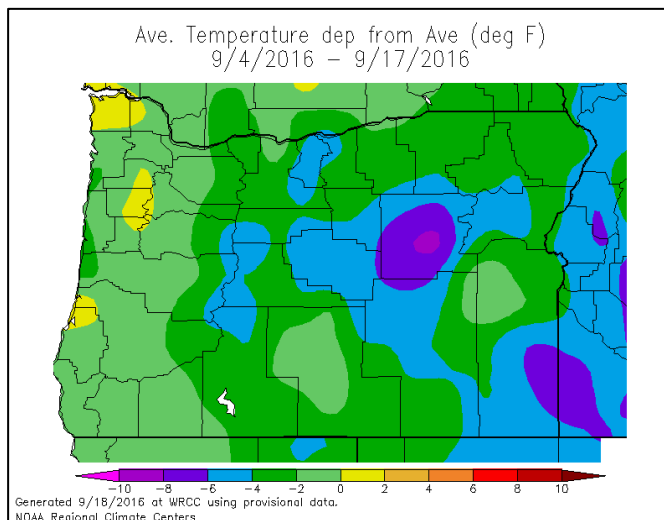
## Regional Streamflow Conditions



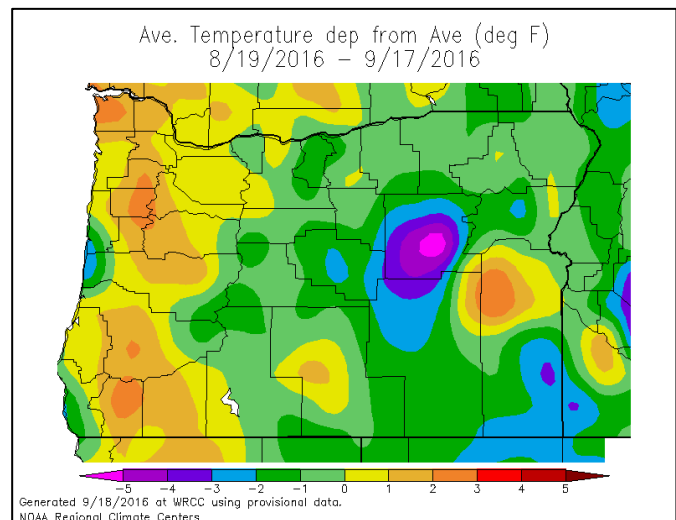
## Temperature Departures

Website: [http://www.wrcc.dri.edu/anom/ore\\_anom.html](http://www.wrcc.dri.edu/anom/ore_anom.html)

**Last 14 days**

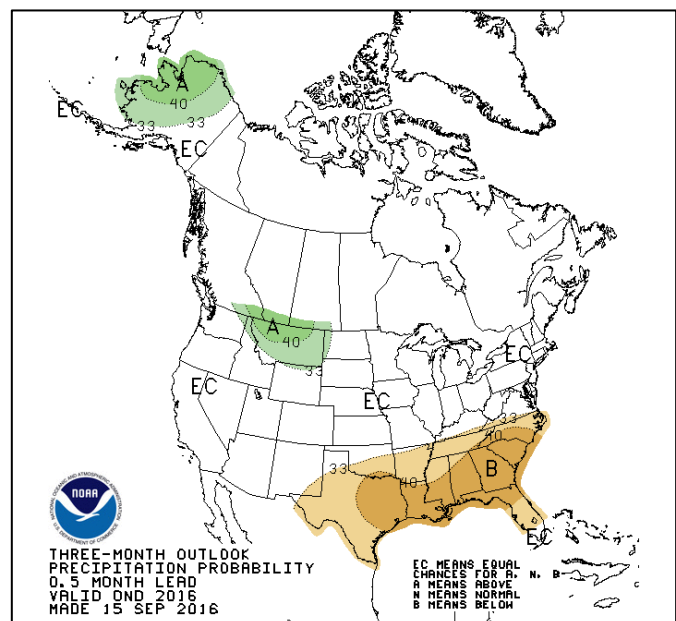
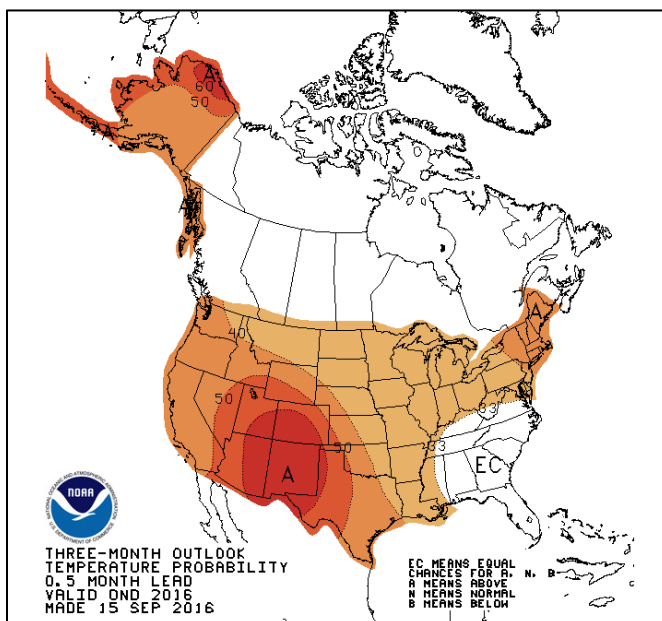


**Last 30 days**



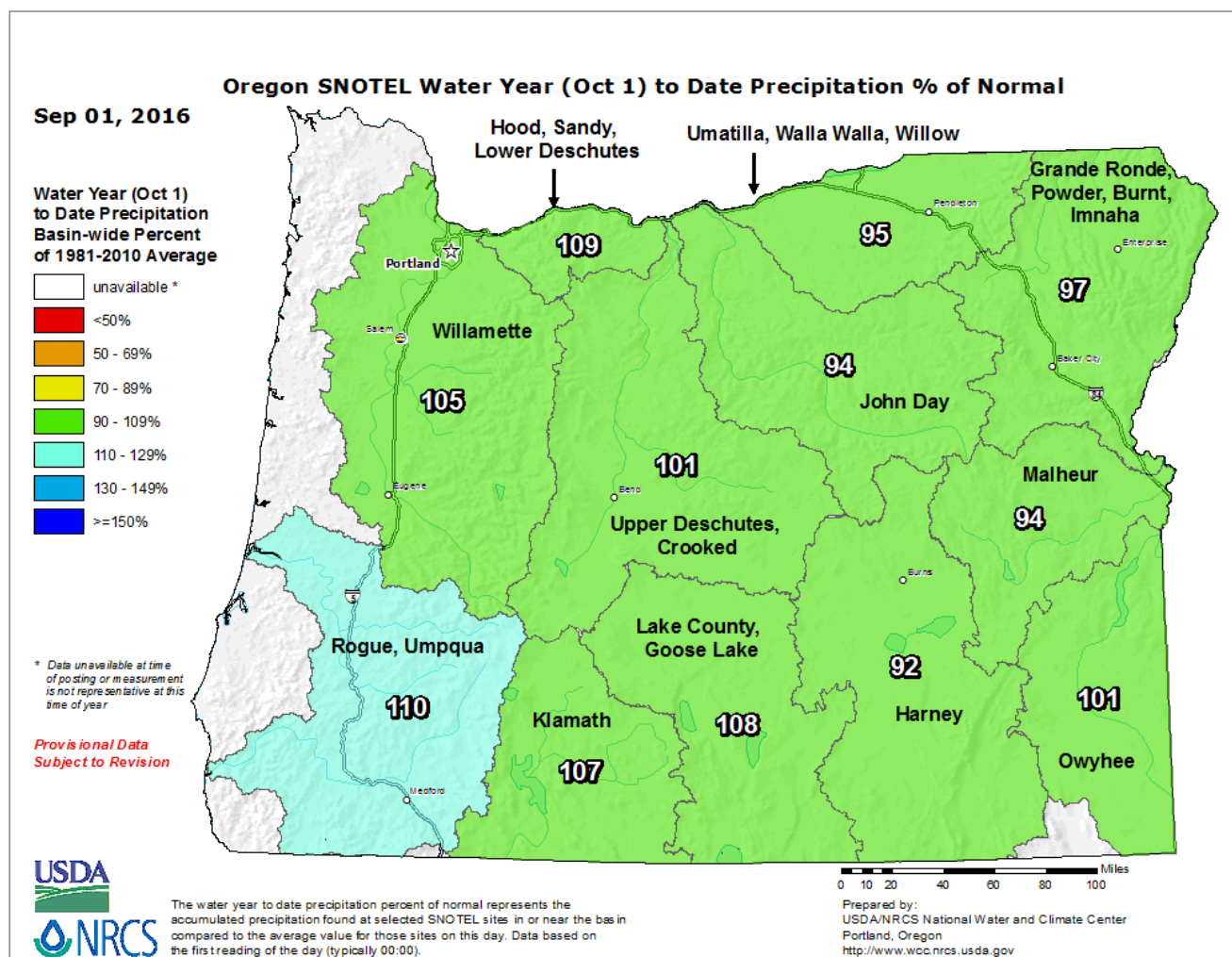
## Three Month Outlook (October-November-December 2016)

Website: [http://www.cpc.ncep.noaa.gov/products/predictions/long\\_range/seasonal.php?lead=1](http://www.cpc.ncep.noaa.gov/products/predictions/long_range/seasonal.php?lead=1)



## Precipitation – Water Year to Date

Website: [http://www.wcc.nrcs.usda.gov/ftpref/gis/images/or\\_wytdprecpcnormal\\_update.png](http://www.wcc.nrcs.usda.gov/ftpref/gis/images/or_wytdprecpcnormal_update.png)





# U.S. Drought Monitor for Oregon (September 13, 2016)

Website: <http://droughtmonitor.unl.edu/Home/StateDroughtMonitor.aspx?OR>

## U.S. Drought Monitor Oregon

**September 13, 2016**





(Released Thursday, Sep. 15, 2016)

Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
<b>Current</b>	0.00	100.00	50.59	12.30	0.00	0.00
<b>Last Week</b> 9/6/2016	0.00	100.00	50.21	12.03	0.00	0.00
<b>3 Months Ago</b> 6/14/2016	0.00	100.00	44.55	0.00	0.00	0.00
<b>Start of Calendar Year</b> 12/29/2015	14.52	85.48	80.45	65.33	39.55	0.00
<b>Start of Water Year</b> 9/29/2015	0.00	100.00	100.00	100.00	67.29	0.00
<b>One Year Ago</b> 9/15/2015	0.00	100.00	100.00	100.00	67.28	0.00

### Intensity:

 D0 Abnormally Dry	 D3 Extreme Drought
 D1 Moderate Drought	 D4 Exceptional Drought
 D2 Severe Drought	

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

### Author:

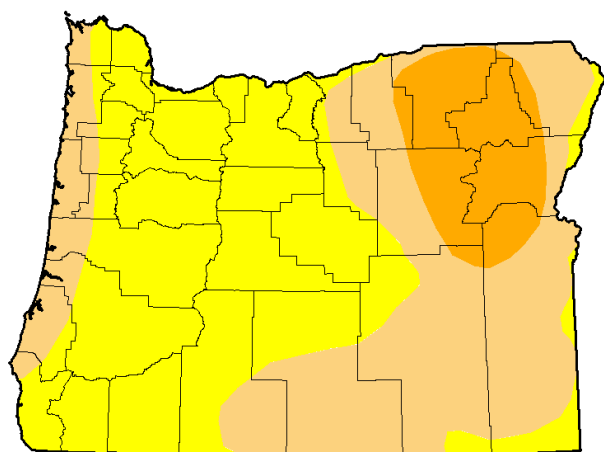
Eric Luebehusen  
U.S. Department of Agriculture



<http://droughtmonitor.unl.edu/>

**Note: No change from September 6, 2016 report**

September 6, 2016

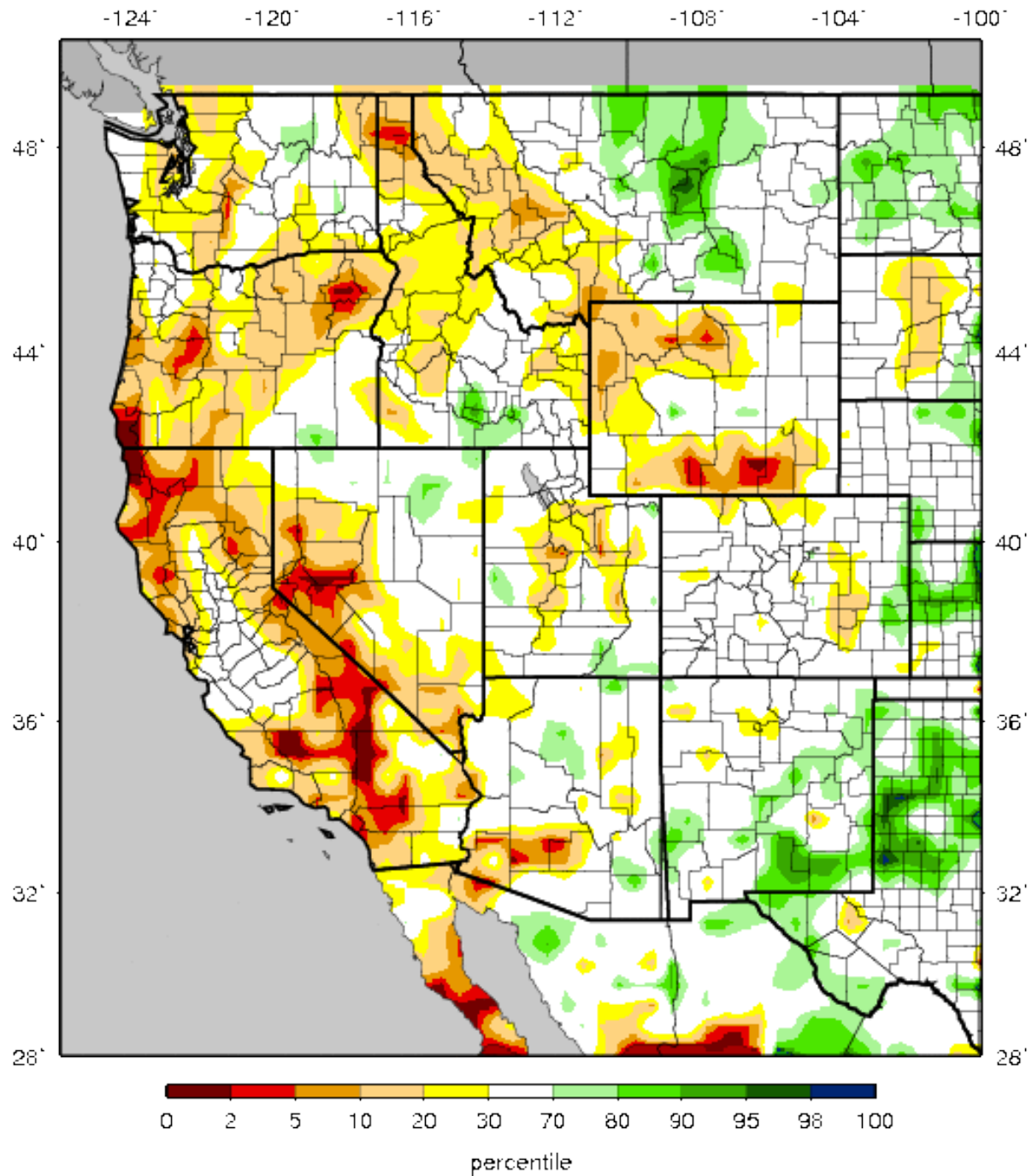


## Soil Moisture

Website: [http://www.hydro.washington.edu/forecast/monitor/curr/conus.mexico/west.vic.sm\\_qnt.gif](http://www.hydro.washington.edu/forecast/monitor/curr/conus.mexico/west.vic.sm_qnt.gif)

VIC Soil Moisture Percentiles (wrt/ 1916-2004)

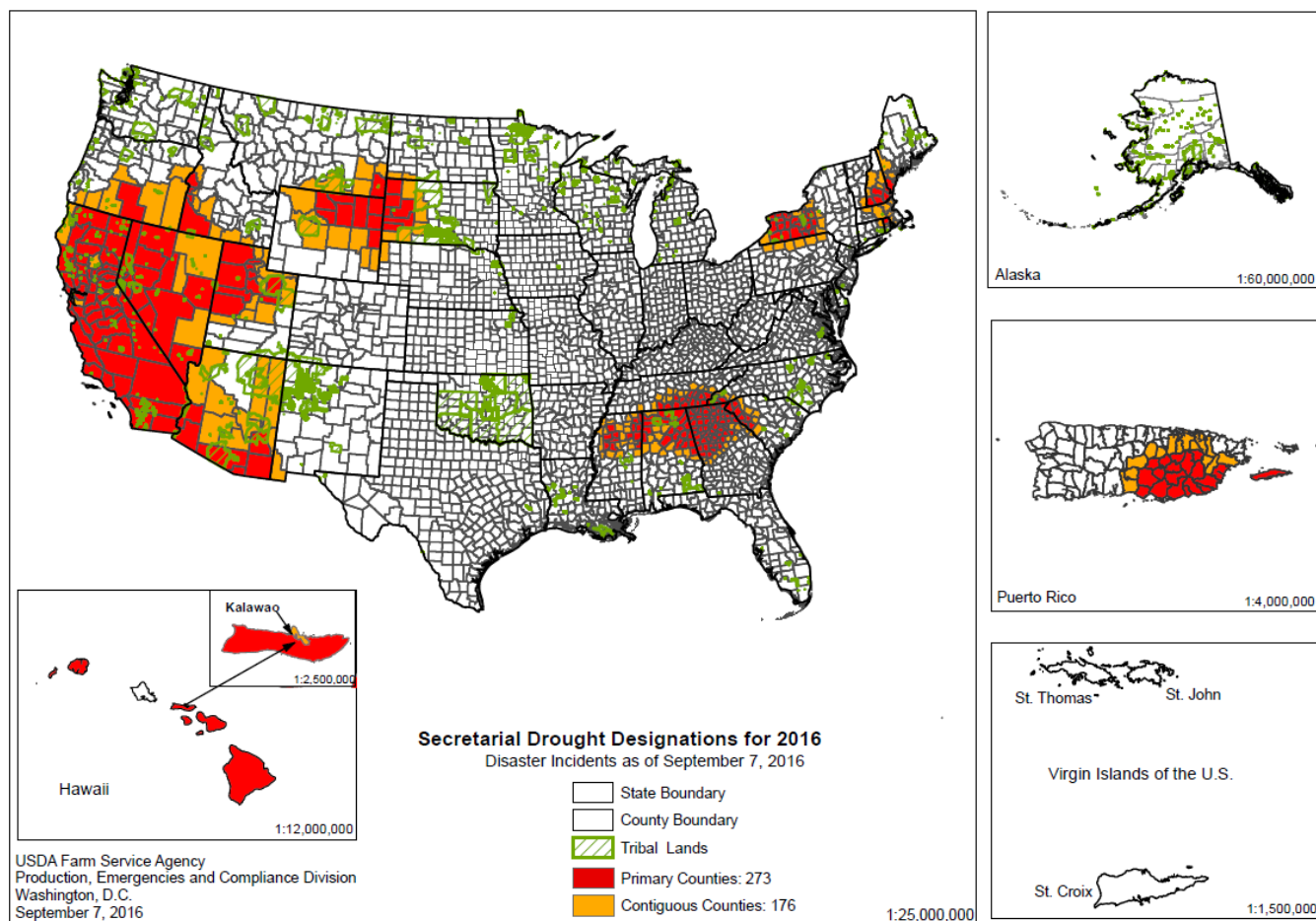
Western United States - 20160917



# USDA Federal Drought Designations

Website: <http://www.usda.gov/documents/usda-drought-fast-track-designations.pdf>

## 2016 Secretarial Drought Designations - All Drought





## Reservoir Storage – Willamette River Basin

Website: <http://www.nwd-wc.usace.army.mil/nwp/teacup/willamette/>

Reservoir	Percent Full September 19, 2016
Blue River Reservoir	23 percent
Cottage Grove Reservoir	46 percent
Cougar Reservoir	15 percent
Detroit Reservoir	50 percent
Dorena Reservoir	39 percent
Fall Creek Reservoir	27 percent
Fern Ridge Reservoir	76 percent
Foster Reservoir	90 percent
Green Peter Reservoir	13 percent
Hills Creek Reservoir	14 percent
Lookout Point Reservoir	3 percent
<b>Willamette Project Total:</b>	<b>26 percent</b>

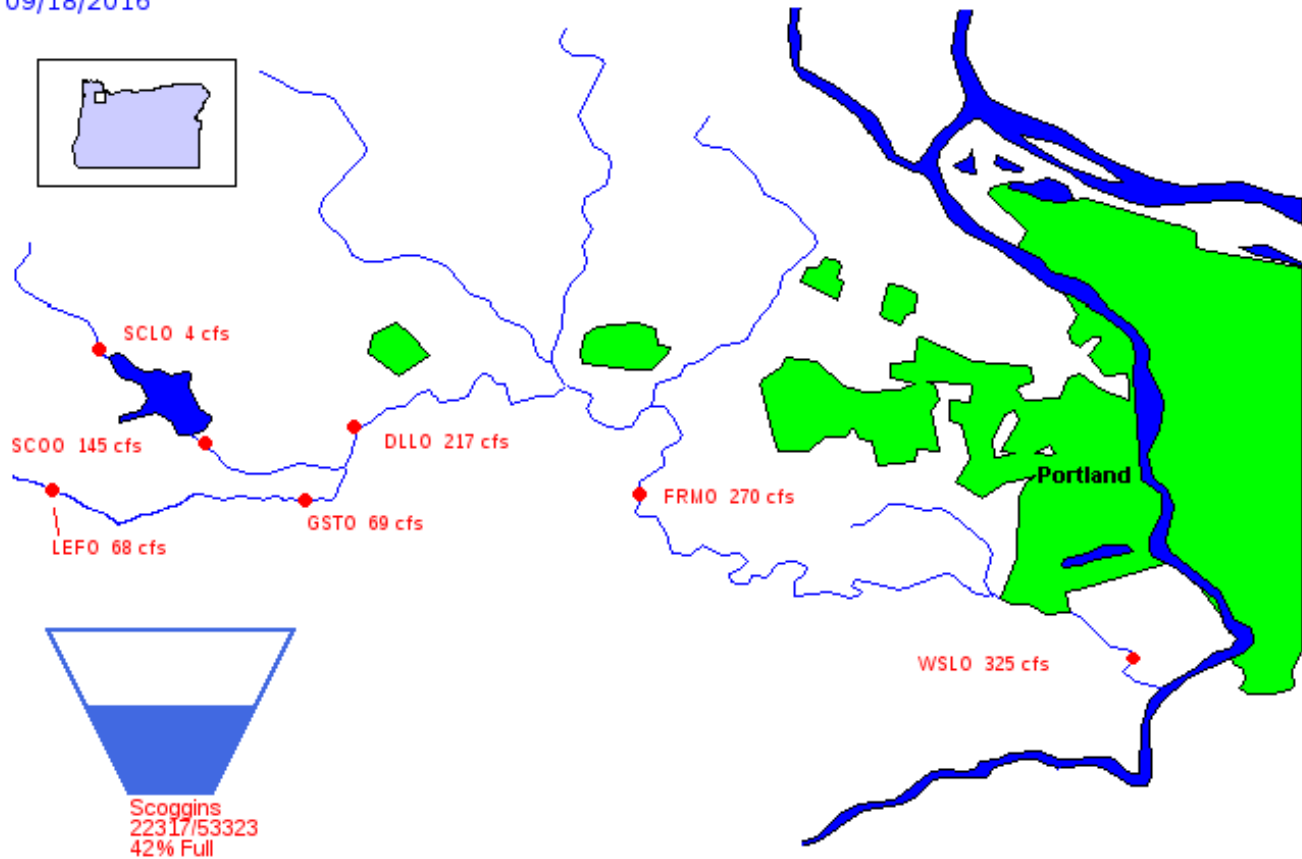


## Reservoir Storage – Tualatin River Basin

Website: <http://www.usbr.gov/pn/hydromet/tuatea.html>

Reservoir	Percent Full September 18, 2016
Scoggins Dam/Henry Hagg L.	42 percent

09/18/2016

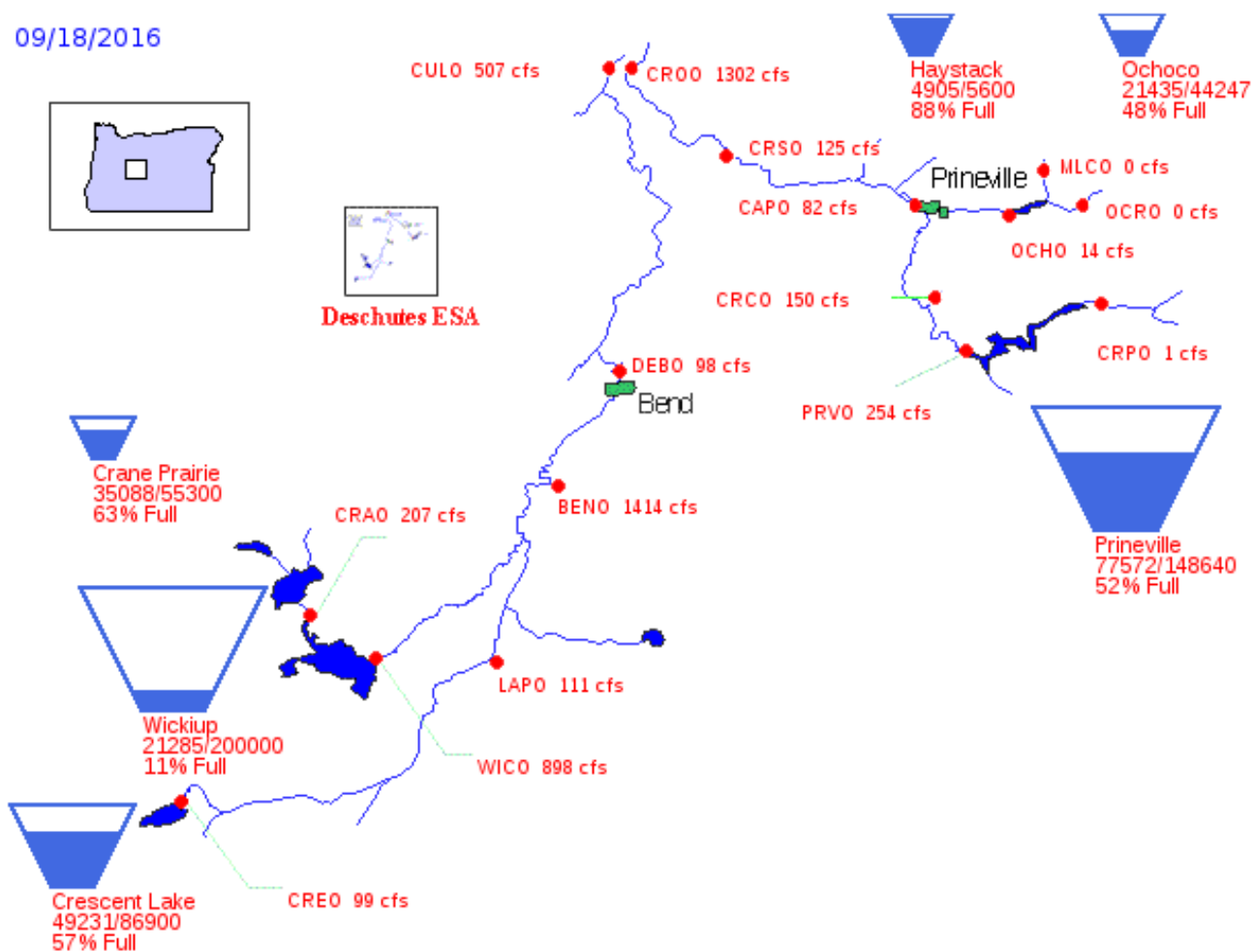


## Reservoir Storage – Deschutes Basin

Website: <http://www.usbr.gov/pn/hydromet/destea.html>

Reservoir	Percent Full September 18, 2016
Crane Prairie Reservoir	63 percent
Crescent Lake	57 percent
Haystack Reservoir	88 percent
Ochoco Reservoir	48 percent
Prineville Reservoir	52 percent
Wickiup Reservoir	11 percent

09/18/2016

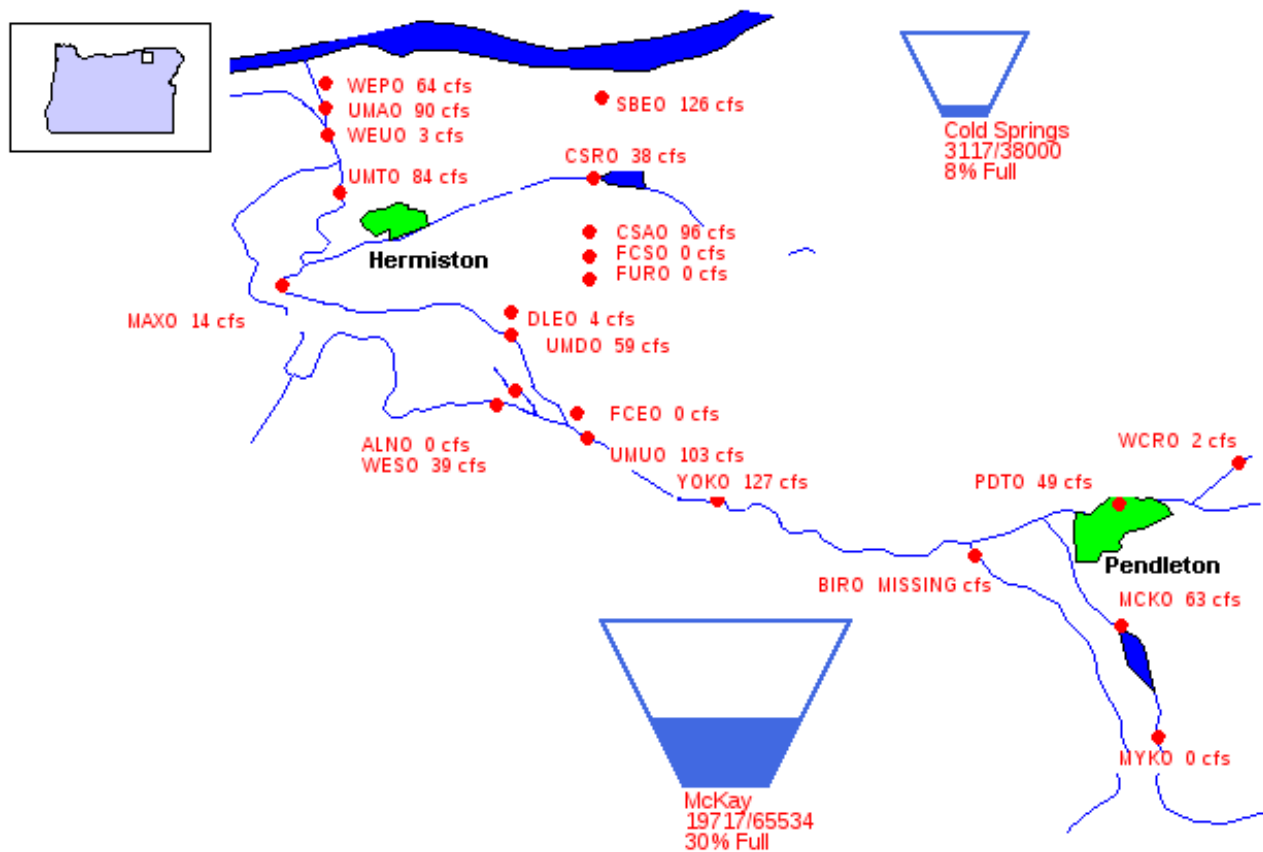


## Reservoir Storage – Umatilla River Basin

Website: <http://www.usbr.gov/pn/hydromet/umatilla/umatea.html>

Reservoir	Percent Full September 18, 2016
Cold Springs Reservoir	8 percent
McKay Reservoir	30 percent

09/18/2016

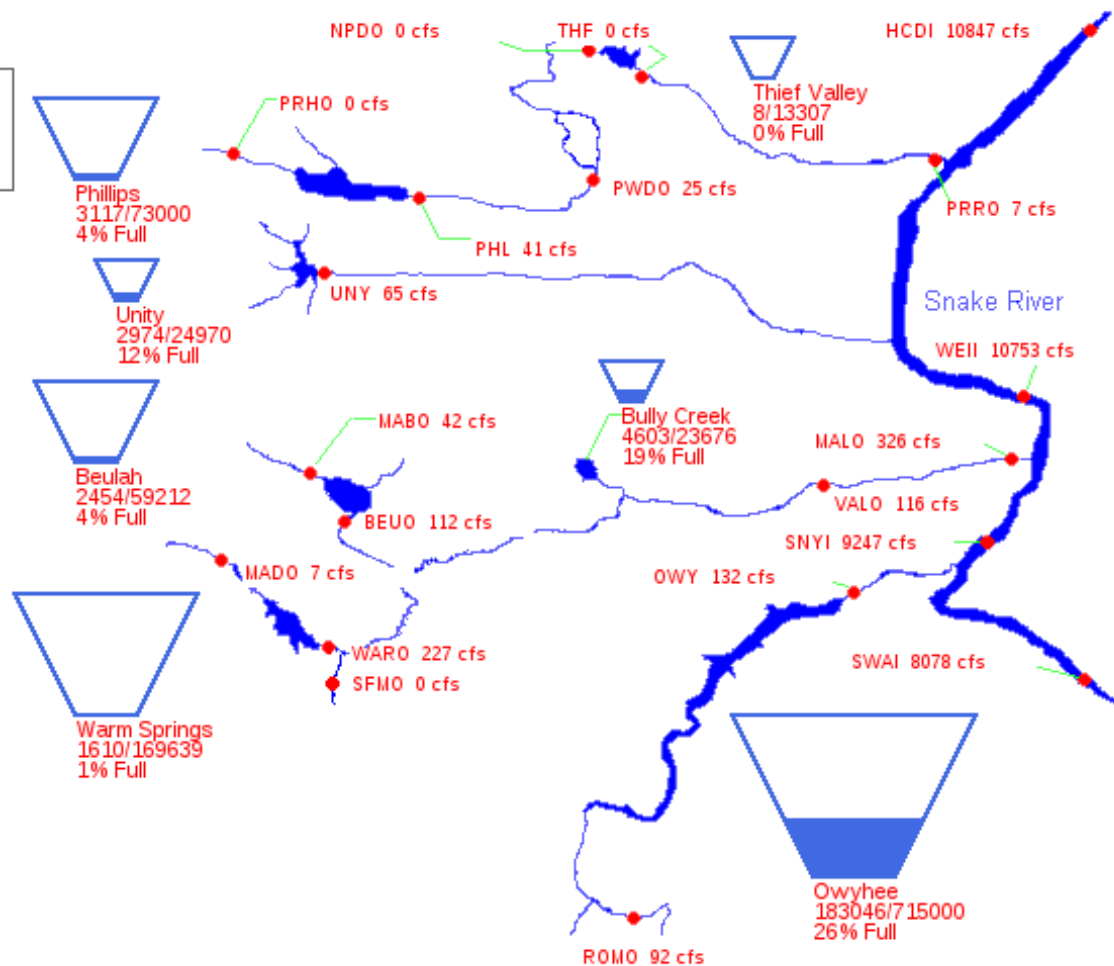
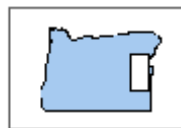


## Reservoir Storage – Southeastern Oregon

Website: <http://www.usbr.gov/pn/hydromet/owytea.html>

Reservoir	Percent Full September 18, 2016
Beulah Reservoir	4 percent
Bully Creek Reservoir	19 percent
Owyhee Reservoir	26 percent
Phillips Reservoir	4 percent
Thief Valley Reservoir	0 percent
Unity Reservoir	12 percent
Warm Springs Reservoir	1 percent

09/18/2016



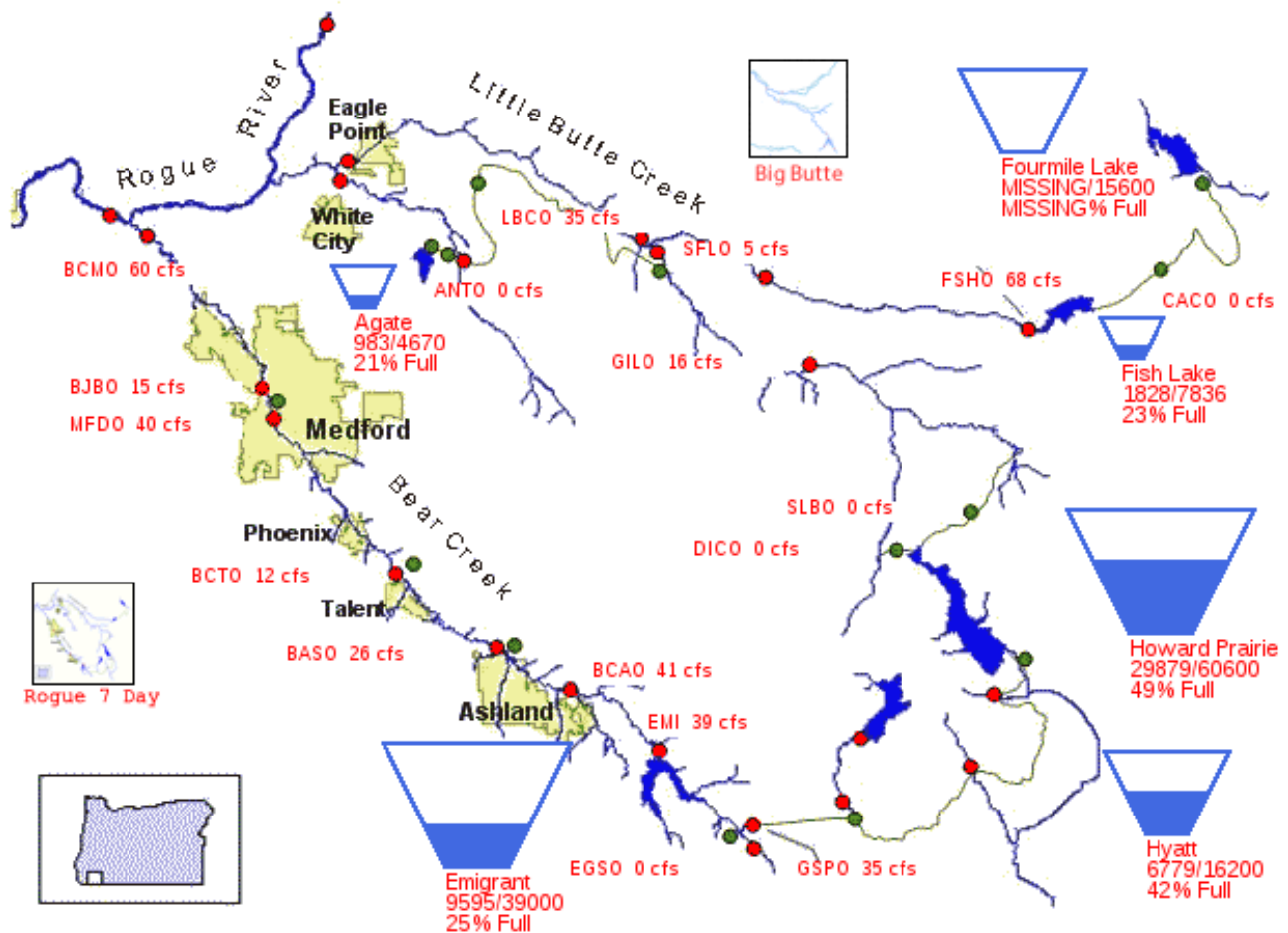


## Reservoir Storage – Rogue River Basin

Website: <http://www.usbr.gov/pn/hydromet/roguetea.html>

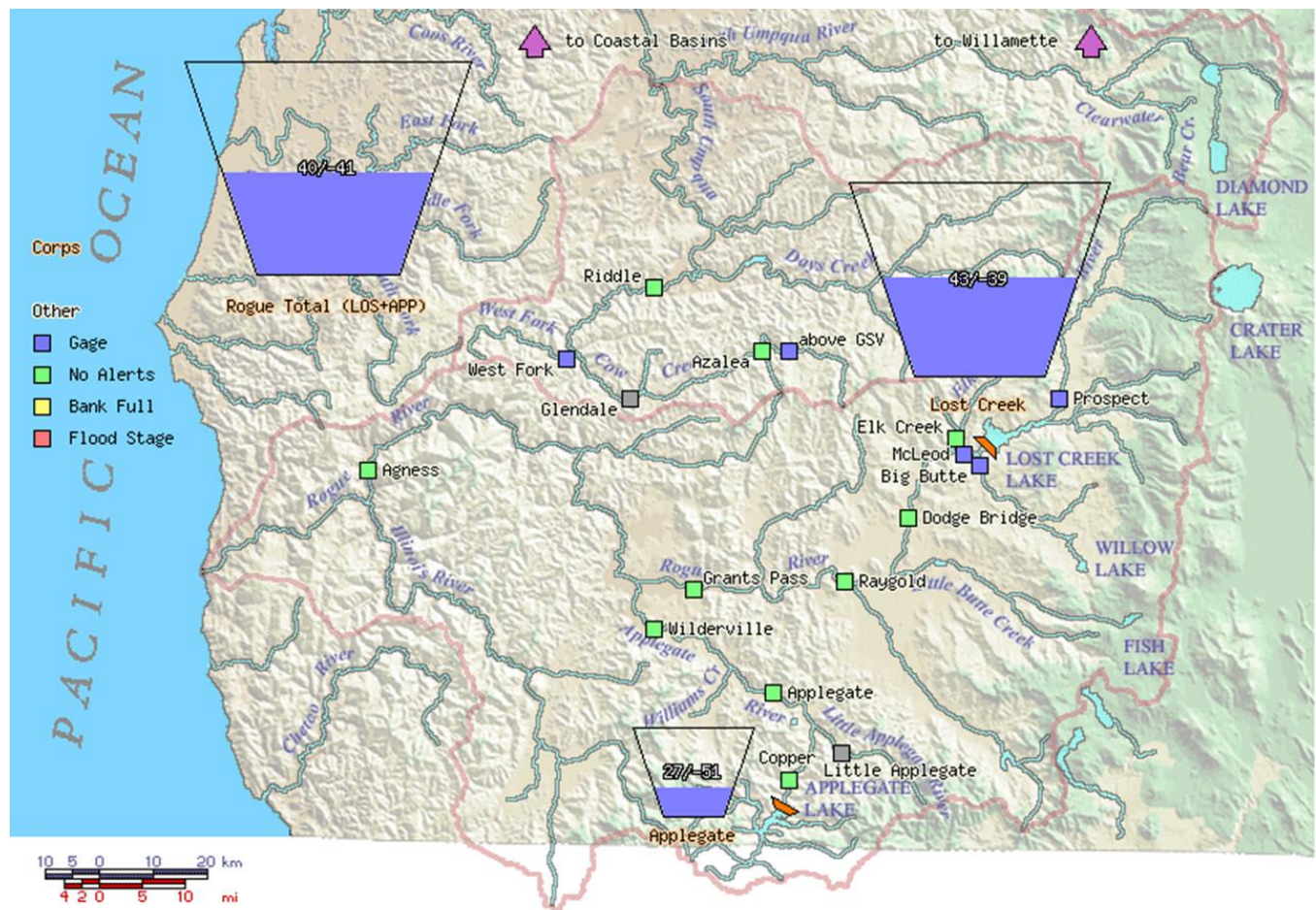
Reservoir	Percent Full September 18, 2016
Agate Reservoir	21 percent
Applegate Reservoir	27 percent
Emigrant Lake	25 percent
Fish Lake	23 percent
Fourmile Lake	missing
Howard Prairie	49 percent
Hyatt Reservoir	42 percent
Lost Creek Reservoir	43 percent

09/18/2016



## Reservoir Storage – Rogue River Basin (continued)

Website: <http://www.nwd-wc.usace.army.mil/nwp/teacup/rogue/>



## Reservoir Storage – Klamath River Basin

Website: <http://www.usbr.gov/pn/hydromet/klamath/teacup.html>

Reservoir	Percent Full September 19, 2016
Upper Klamath Lake	24 percent
Clear Lake	15 percent
Gerber Reservoir	15 percent

