

Oregon

Water Conditions Report

August 30, 2016



Several cold fronts crossed the Northwest during August, accompanied by breezy conditions but little rainfall. While there were several days in August when temperatures reached over 100 degrees, overall conditions were normal to slightly cooler than normal for the month. With the exception of the northwest corner of the state, precipitation was below normal.

Expect above average temperatures through September. NOAA's Climate Prediction Center continues to predict increased odds of warmer than normal conditions for the rest of the summer and early fall.

While recognizing that there is wide variation throughout the state, streamflows are better overall this year than in 2015. Statewide average streamflows for August were at 64 percent of normal. This was better than 50 percent of normal seen last year at this time. After the respite in July, flows are continuing their downward trend typical for this time of year. The Klamath and Hood Basins, all above 80 percent of normal, are faring the best. The most stressed areas are the Umatilla and John Day Basins, both below 36 percent of normal.

Those with access to reservoir storage continue to do relatively well. Reservoir storage levels were strong at the start of the irrigation season, as water managers were able to benefit from springtime run-off. Irrigation systems and rivers fed by reservoirs continue to be in better shape than those that are not. However, many reservoirs are nearing the end of their draw down season and are consequently at low levels. By the end of the summer, most reservoirs will be depleted, as they were in 2015. Federal agencies have begun meeting to design their reservoir operations for the fall.

The Drought Monitor shows 100 percent of the state abnormally dry. As of August 23, 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). 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. As of August 21, Oregon led the West with 49% of its rangeland and pastures rated in very poor to poor condition, according to the USDA.

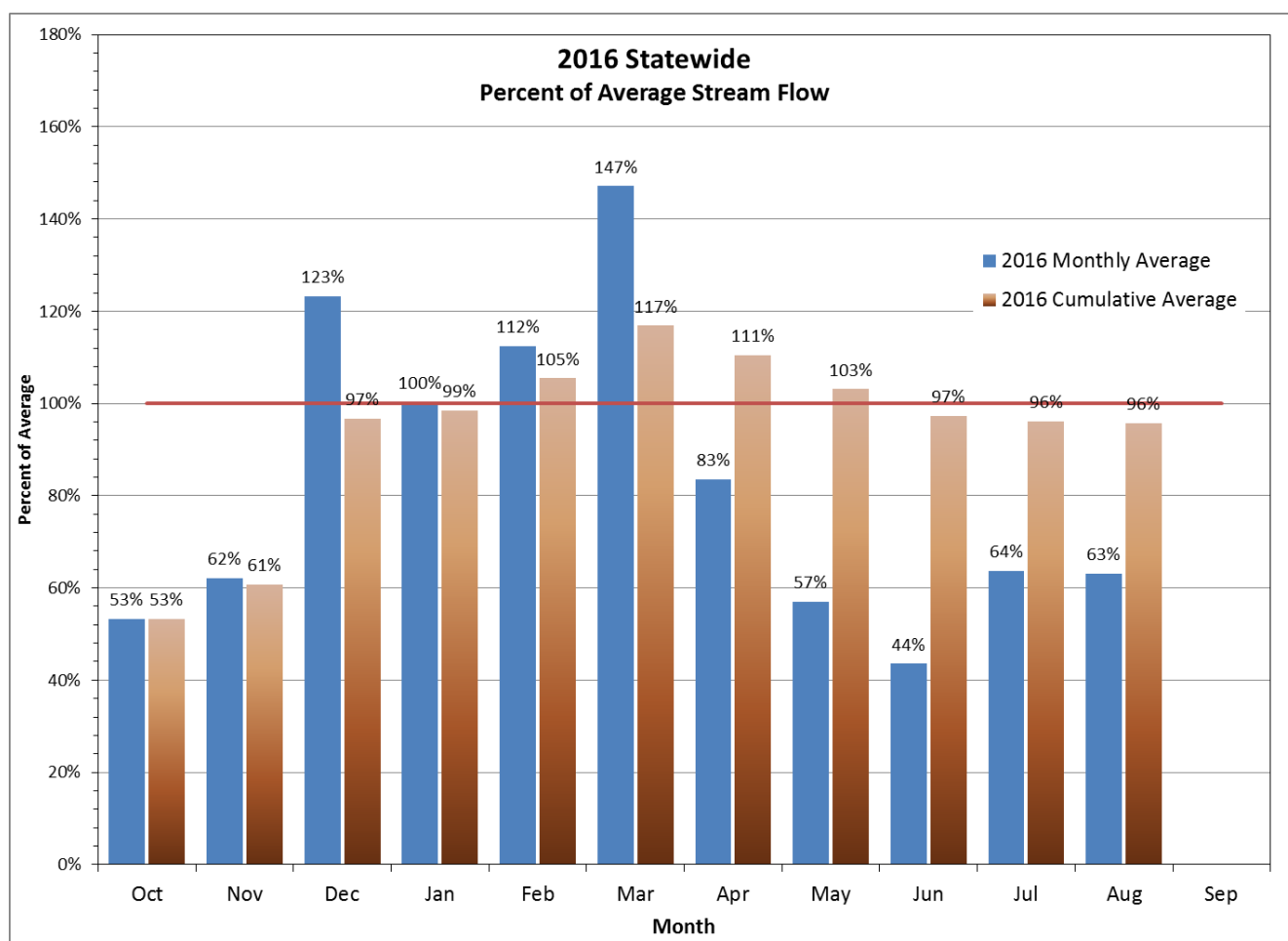
Fire potential is currently near to below normal for most of Oregon. So far, the number of acres burned from wildfire in 2016 has been below-normal. Recent rainfall and cooler temperatures have also temporarily improved the fire outlook. However, we can expect most areas to return to normal for the remainder of summer. The National Interagency Fire Center's (NIFC) monthly outlook indicates mostly normal fire potential through August and September. Another monthly outlook will be released September 1, 2016.

Data & Products:

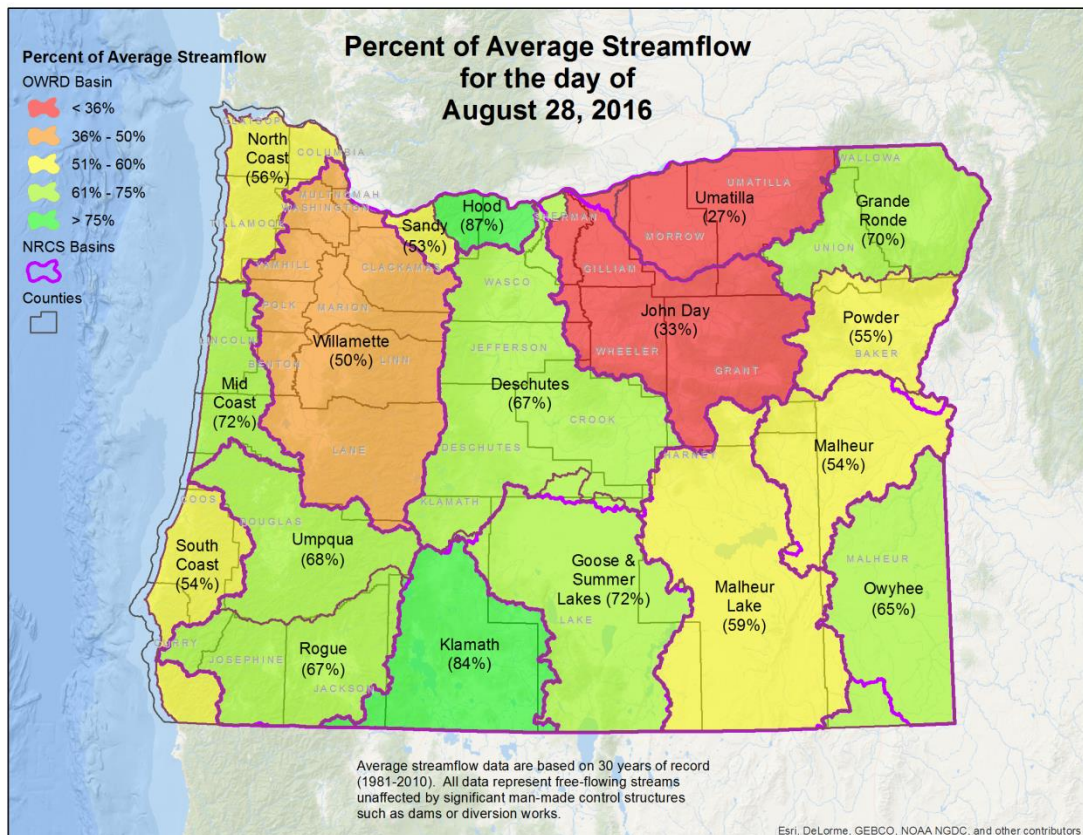
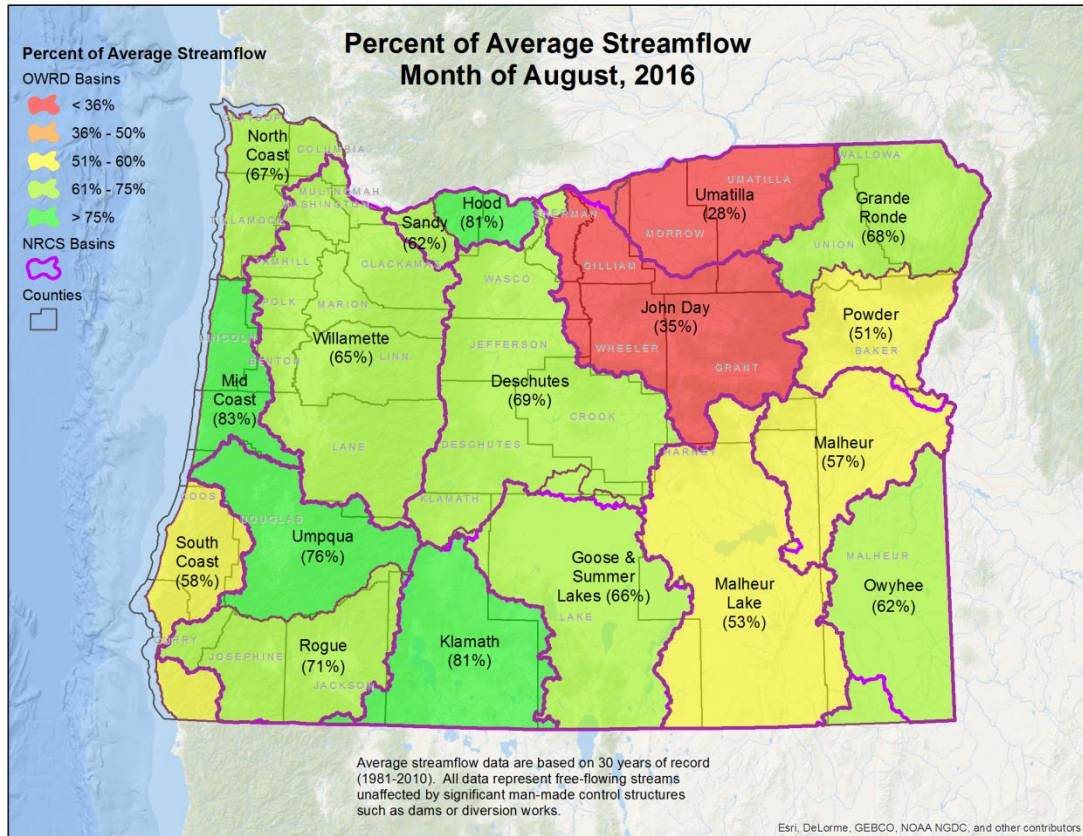
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Streamflow Conditions



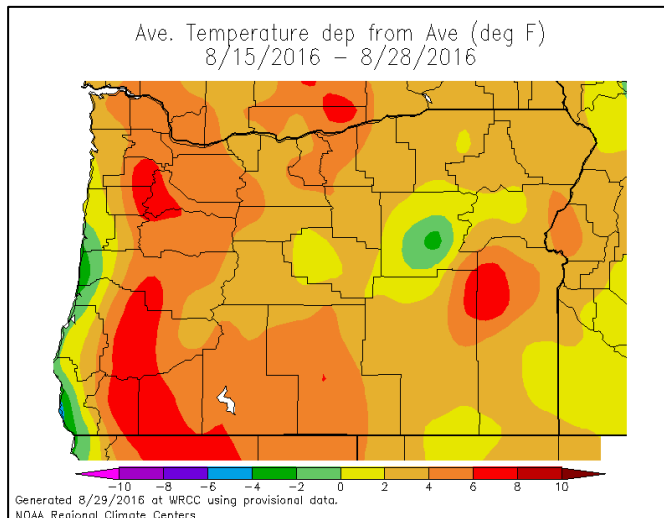
Streamflow Conditions (continued)



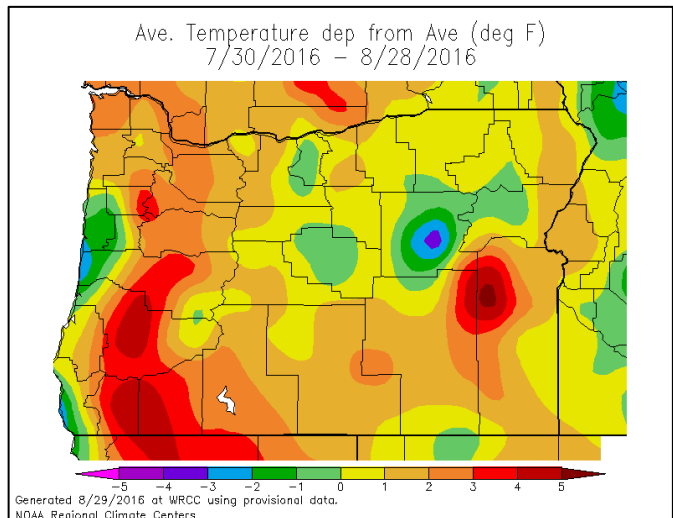
Temperature Departures

Website: http://www.wrcc.dri.edu/anom/ore_anom.html

Last 14 days

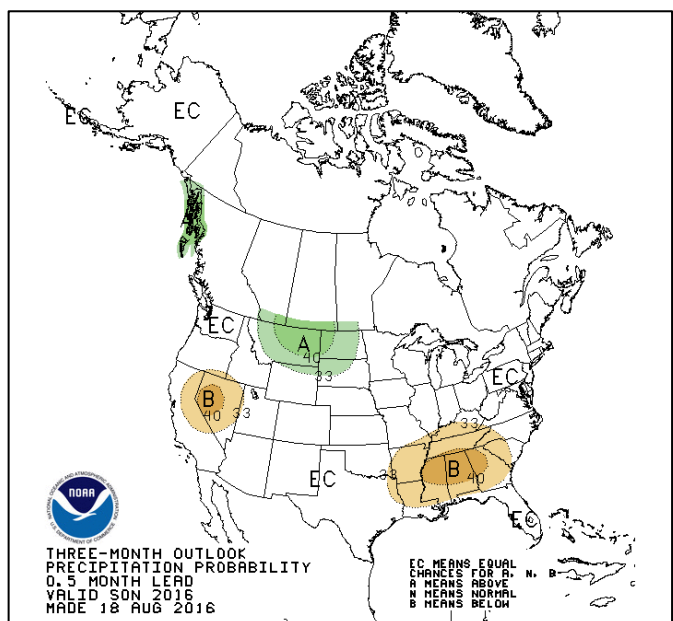
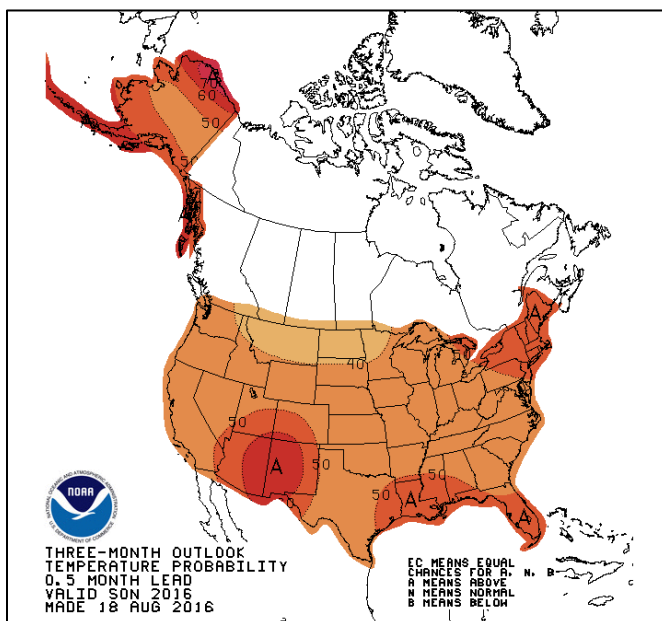


Last 30 days



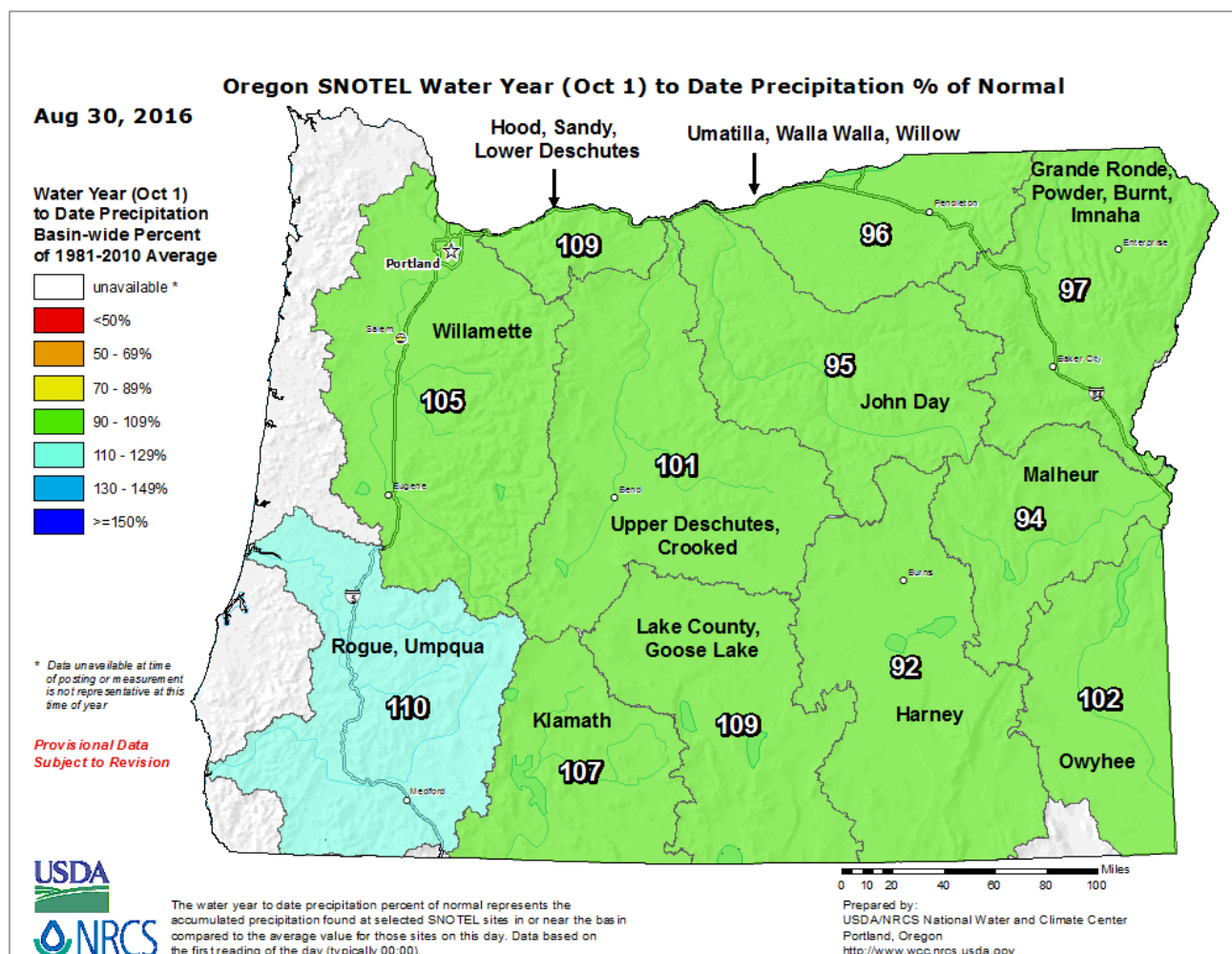
Three Month Outlook (September-October-November 2016)

Website: 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



U.S. Drought Monitor for Oregon (August 23, 2016)

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

U.S. Drought Monitor Oregon

August 23, 2016

(Released Thursday, Aug. 25, 2016)

Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	0.00	100.00	50.21	12.03	0.00	0.00
Last Week 8/16/2016	0.00	100.00	50.20	12.03	0.00	0.00
3 Months Ago 5/24/2016	20.39	79.61	24.74	0.00	0.00	0.00
Start of Calendar Year 1/22/2015	14.52	85.48	80.45	65.33	39.55	0.00
Start of Water Year 9/29/2015	0.00	100.00	100.00	100.00	67.29	0.00
One Year Ago 8/25/2015	0.00	100.00	100.00	100.00	67.29	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:

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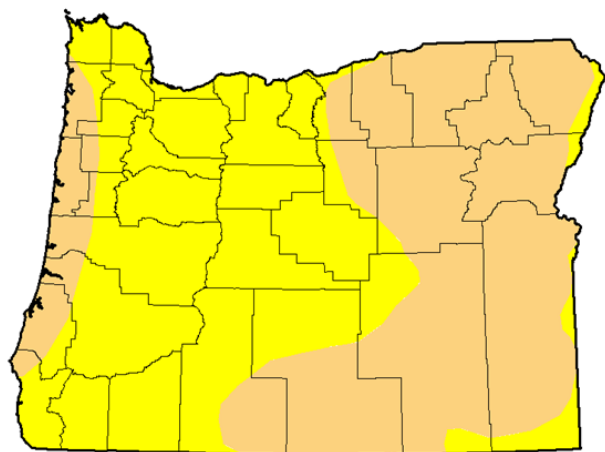
U.S. Department of Agriculture



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

Note: Change from August 2, 2016 report

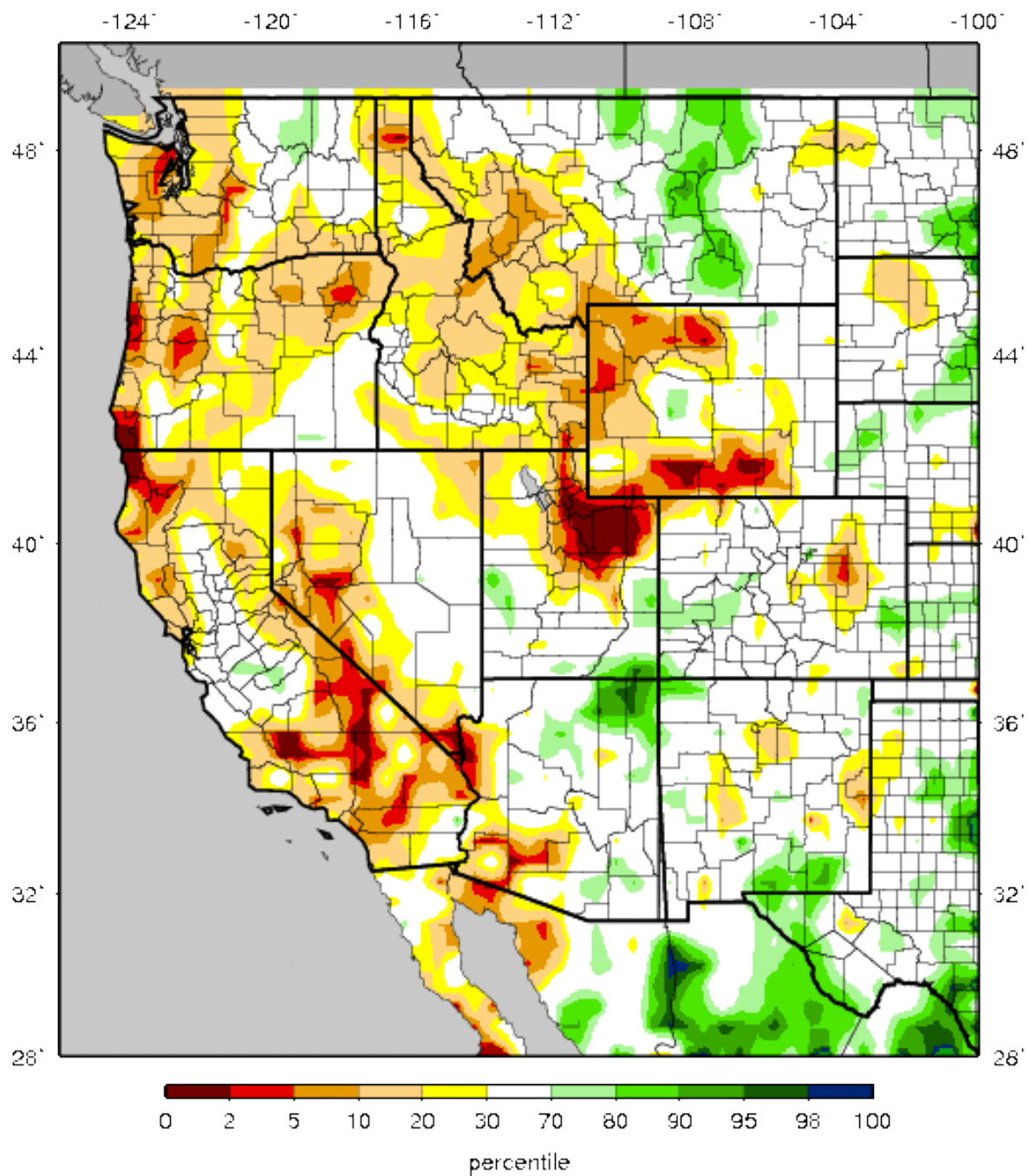
August 2, 2016



Soil Moisture

Website: http://www.hydro.washington.edu/forecast/monitor/curr/conus.mexico/west.vic.sm_qnt.gif

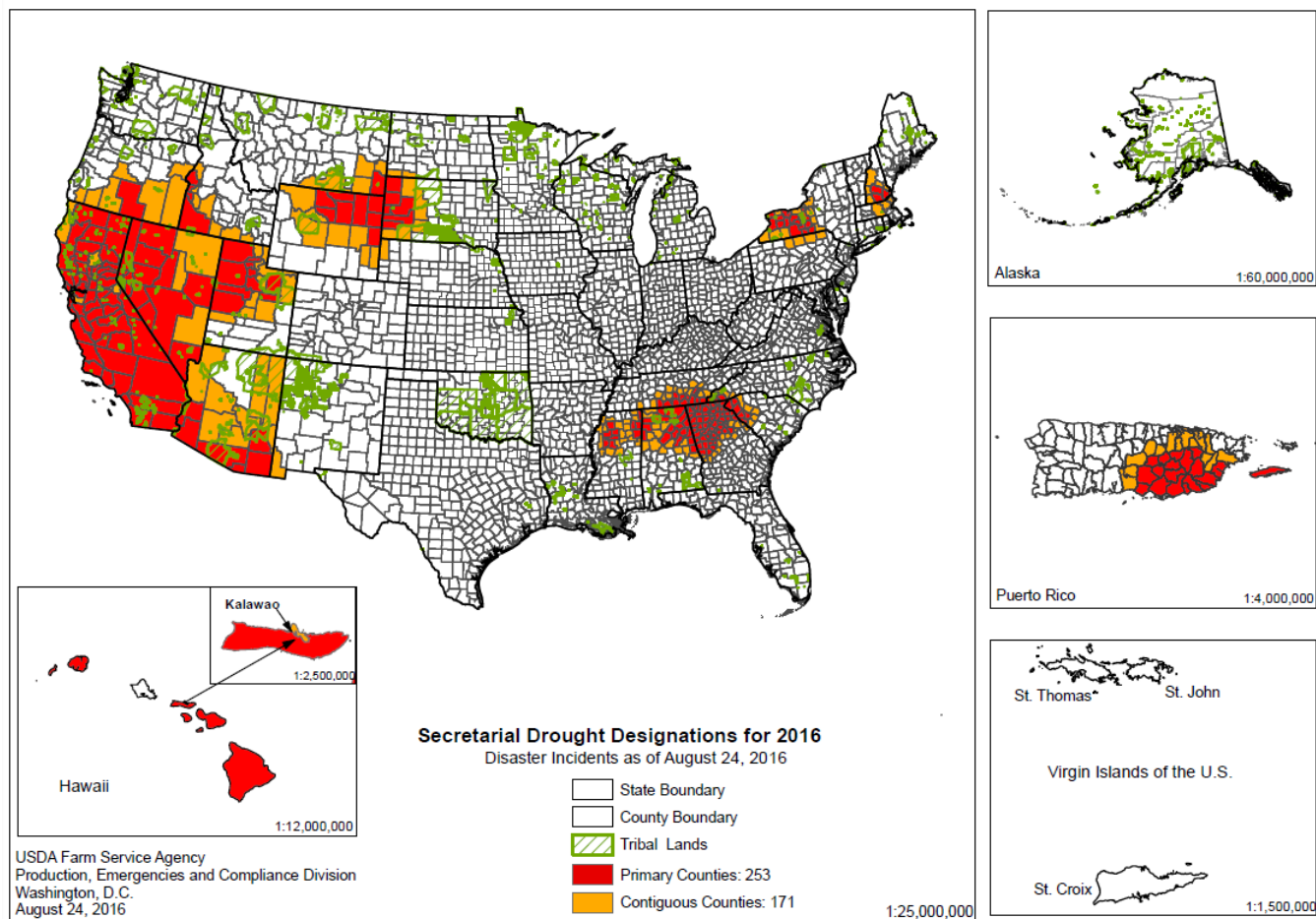
VIC Soil Moisture Percentiles (wrt' 1916-2004)
Western United States - 20160828



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 on August 30, 2016
Blue River Reservoir	34 percent
Cottage Grove Reservoir	59 percent
Cougar Reservoir	18 percent
Detroit Reservoir	60 percent
Dorena Reservoir	39 percent
Fall Creek Reservoir	43 percent
Fern Ridge Reservoir	81 percent
Foster Reservoir	88 percent
Green Peter Reservoir	28 percent
Hills Creek Reservoir	17 percent
Lookout Point Reservoir	10 percent
Willamette Project Total:	34 percent

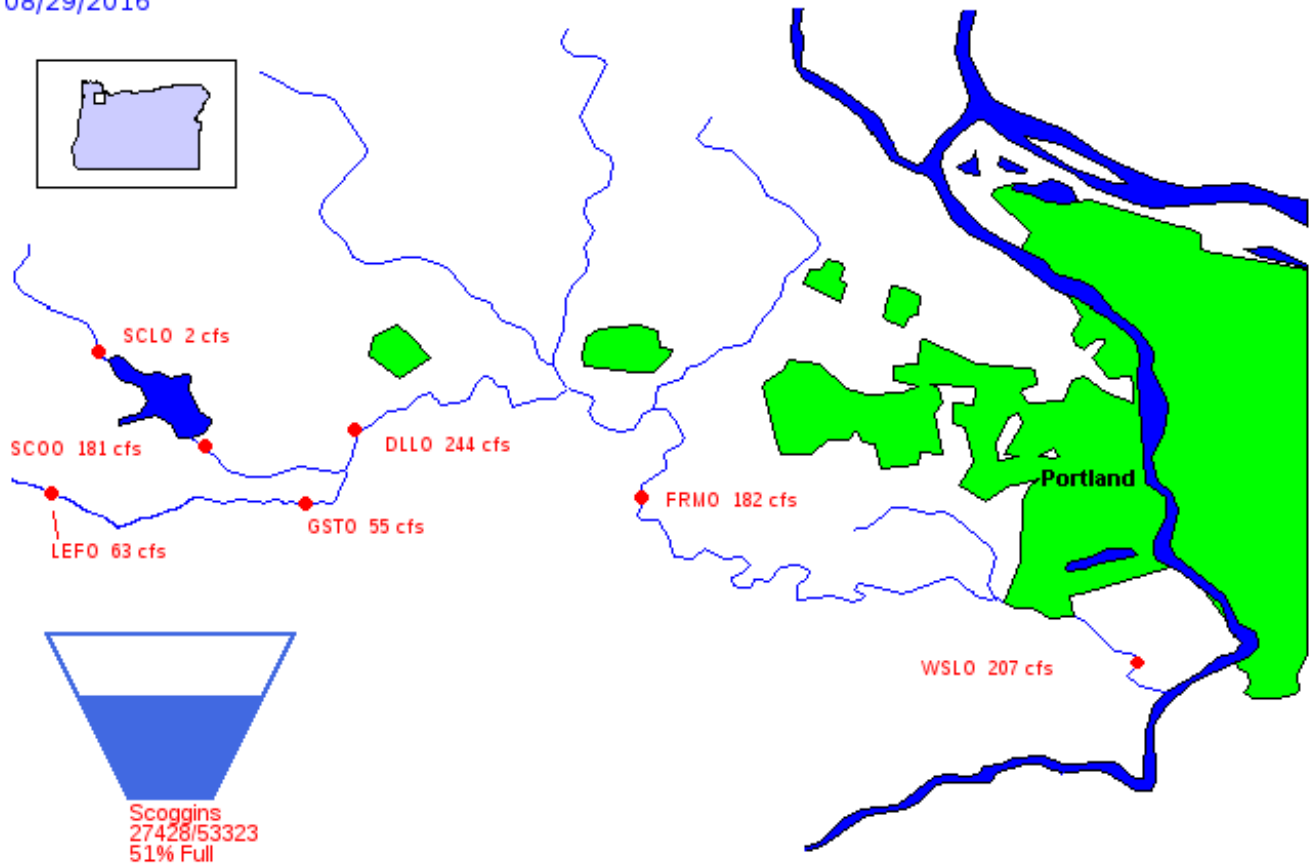


Reservoir Storage – Tualatin River Basin

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

Reservoir	Percent Full on August 29, 2016
Scoggins Dam/Henry Hagg L.	51 percent

08/29/2016

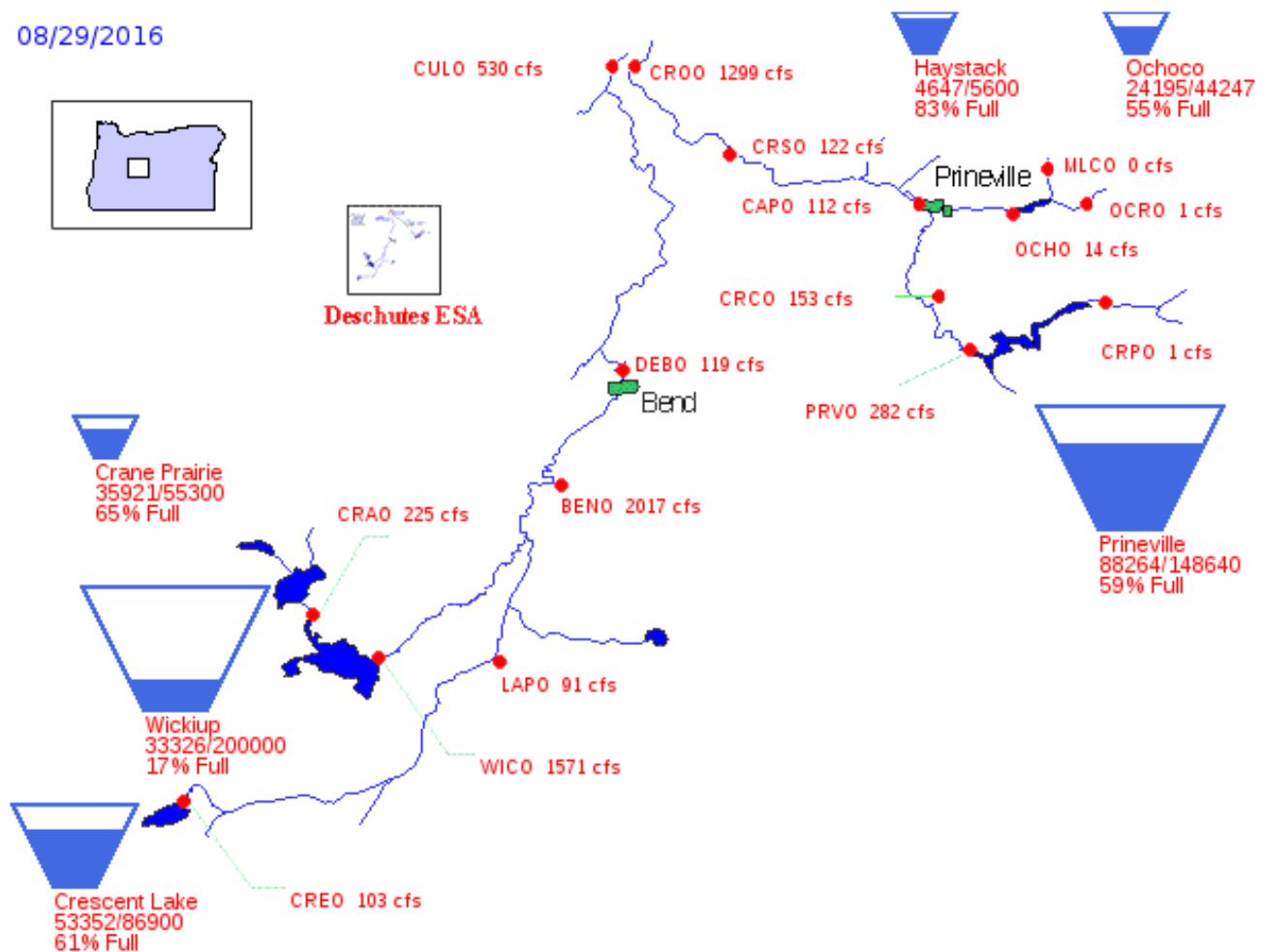


Reservoir Storage – Deschutes Basin

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

Reservoir	Percent Full on August 29, 2016
Crane Prairie Reservoir	65 percent
Crescent Lake	61 percent
Haystack Reservoir	83 percent
Ochoco Reservoir	55 percent
Prineville Reservoir	59 percent
Wickiup Reservoir	17 percent

08/29/2016

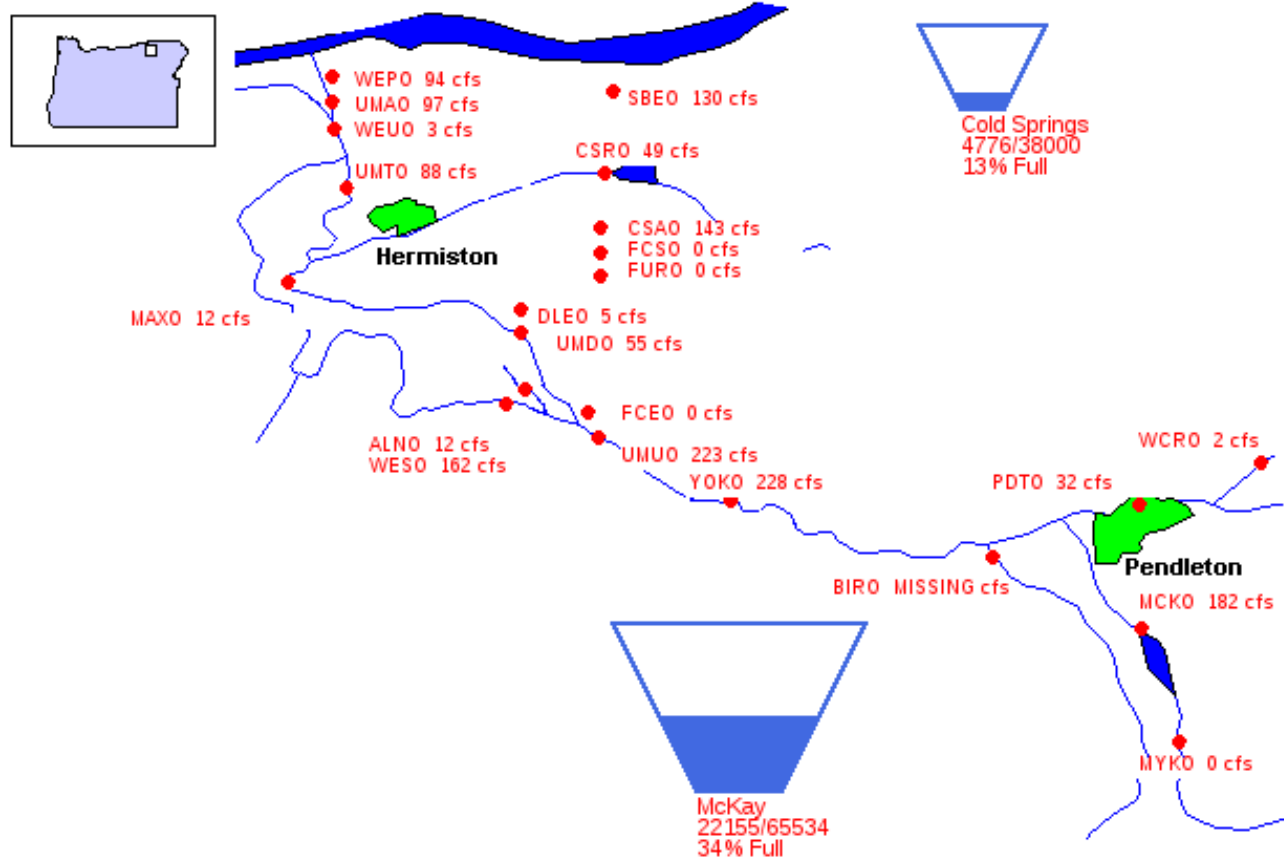


Reservoir Storage – Umatilla River Basin

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

Reservoir	Percent Full on August 29, 2016
Cold Springs Reservoir	13 percent
McKay Reservoir	34 percent

08/29/2016

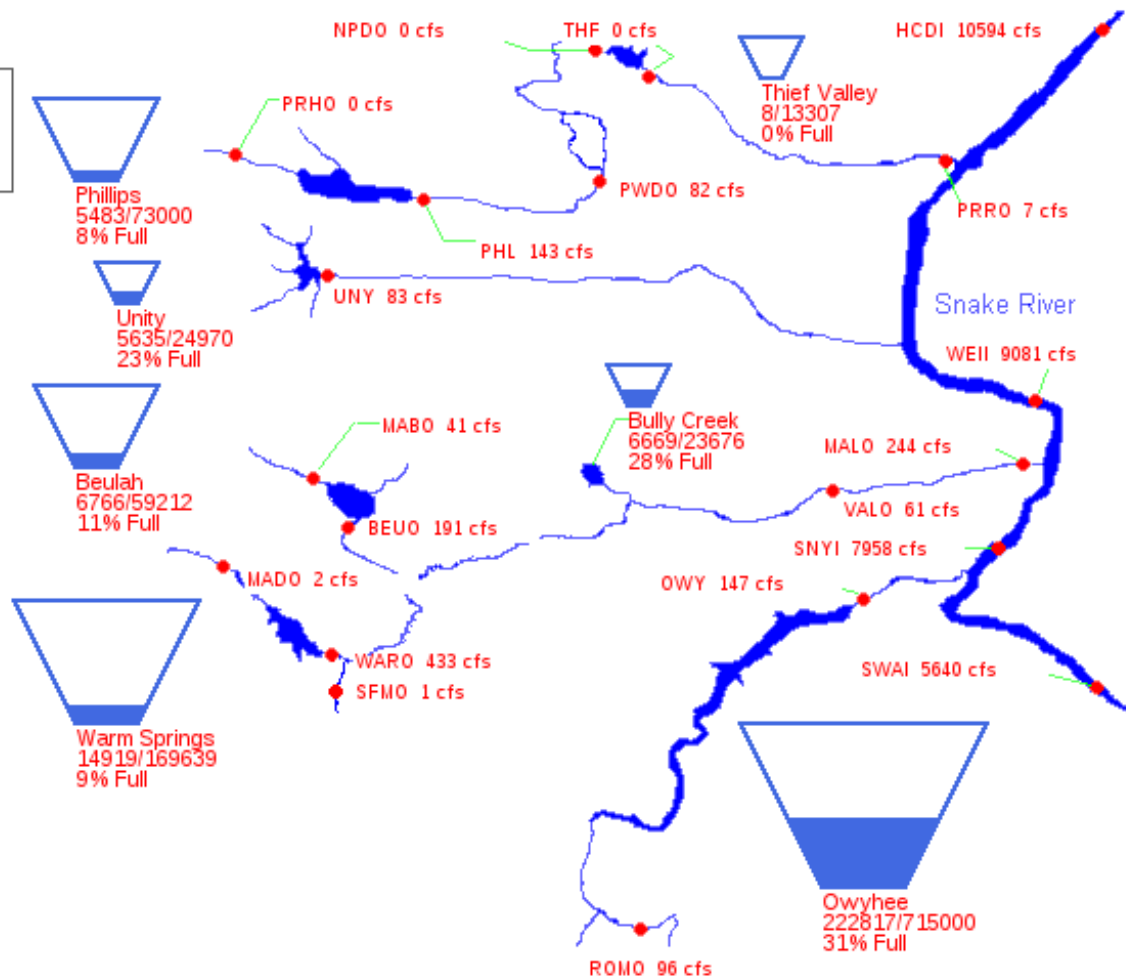
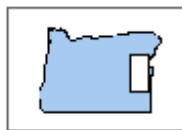


Reservoir Storage – Southeastern Oregon

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

Reservoir	Percent Full on August 29, 2016
Beulah Reservoir	11 percent
Bully Creek Reservoir	28 percent
Owyhee Reservoir	31 percent
Phillips Reservoir	8 percent
Thief Valley Reservoir	0 percent
Unity Reservoir	23 percent
Warm Springs Reservoir	9 percent

08/29/2016

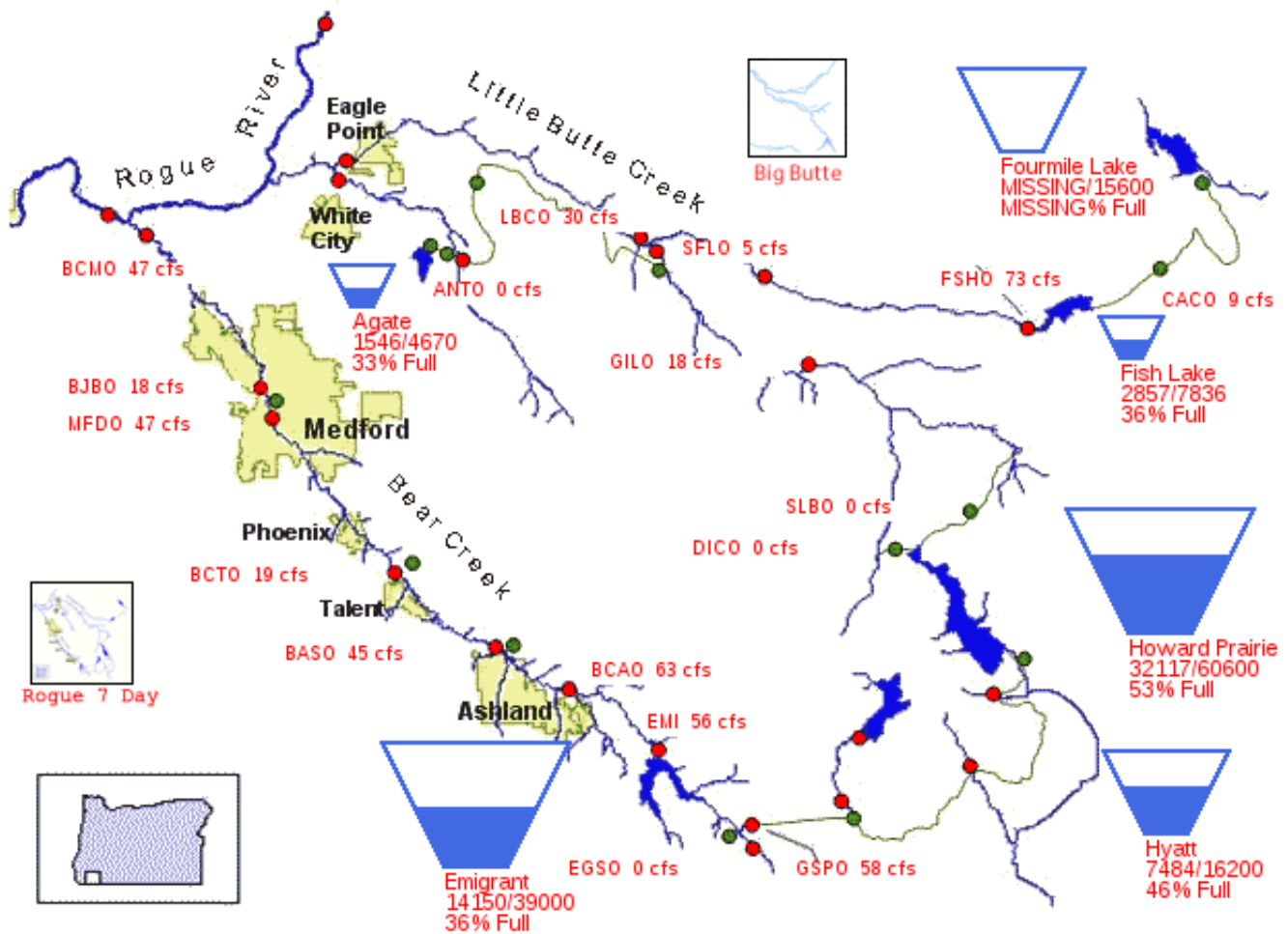


Reservoir Storage – Rogue River Basin

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

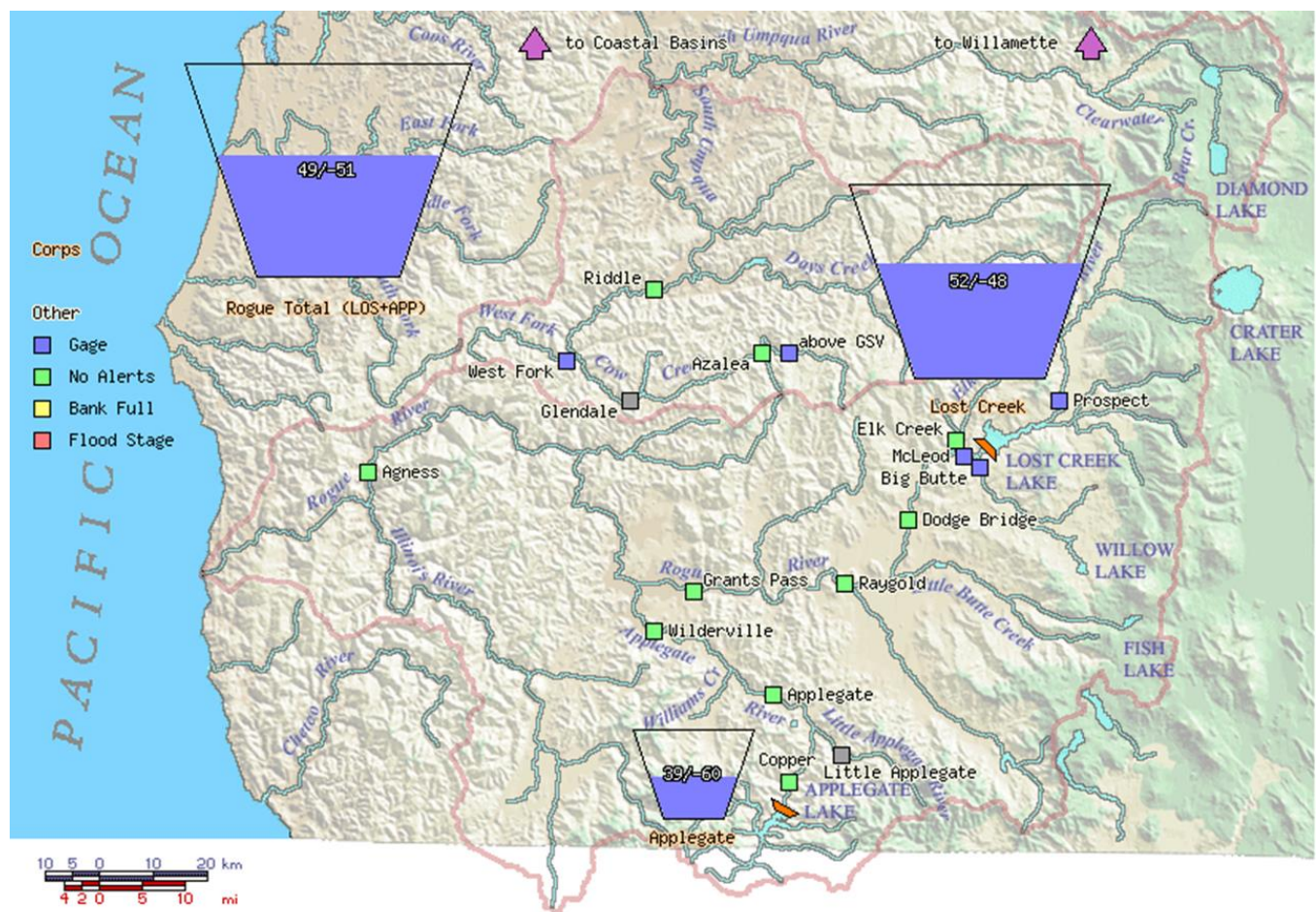
Reservoir	Percent Full on August 29, 2016
Agate Reservoir	33 percent
Applegate Reservoir	39 percent
Emigrant Lake	36 percent
Fish Lake	36 percent
Fourmile Lake	missing
Howard Prairie	53 percent
Hyatt Reservoir	46 percent
Lost Creek Reservoir	52 percent

08/29/2016



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 on August 30, 2016
Upper Klamath Lake	32 percent
Clear Lake	16 percent
Gerber Reservoir	19 percent

