Oregon
Water Conditions Report
August 15, 2016

There was considerable variability in precipitation throughout the state during the month of July. The southeast corner of the state was dry, with precipitation conditions average or above average for this time of the year in the rest of the state. Climate models are predicting a weak La Niña later in 2016, bringing potentially wetter conditions this winter to the Pacific Northwest.

Expect above average temperatures through September. While temperatures were cooler in July, 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 in 2016 than in 2015. Statewide average streamflows for July were at 63 percent of normal. This was better than 41 percent of normal seen last year at this time. Flows are continuing their downward trend throughout the summer, but in many locations leveled off during July, aided by cooler temperatures and a little precipitation. The Rogue, Umpqua and Mid Coast Basins, all above 80 percent of normal, are faring the best. The most stressed areas are the Umatilla, John Day, Goose & Summer Lake, and the Powder Basin.

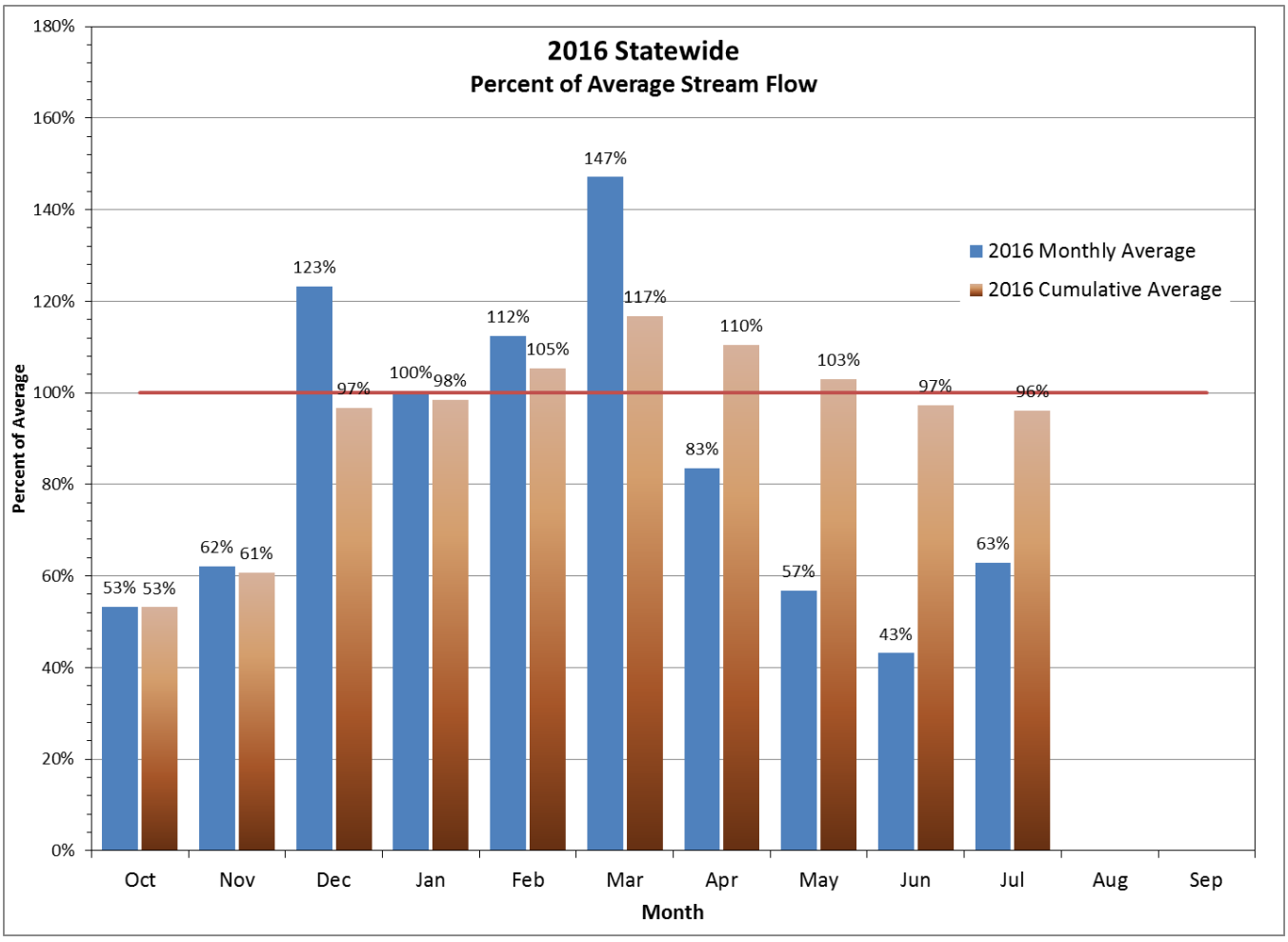
Those with access to reservoir storage continue to do relatively well. Reservoir storage levels were strong at the start of the irrigation season, as water managers were able to benefit from springtime run-off. Irrigation systems and rivers fed by reservoirs continue to be in better shape than those that are not. However, all reservoirs are now being drawn down, supplying irrigation and municipal water, as well as instream flows for fisheries. 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 11, 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 are indicating drier than normal conditions within these areas.

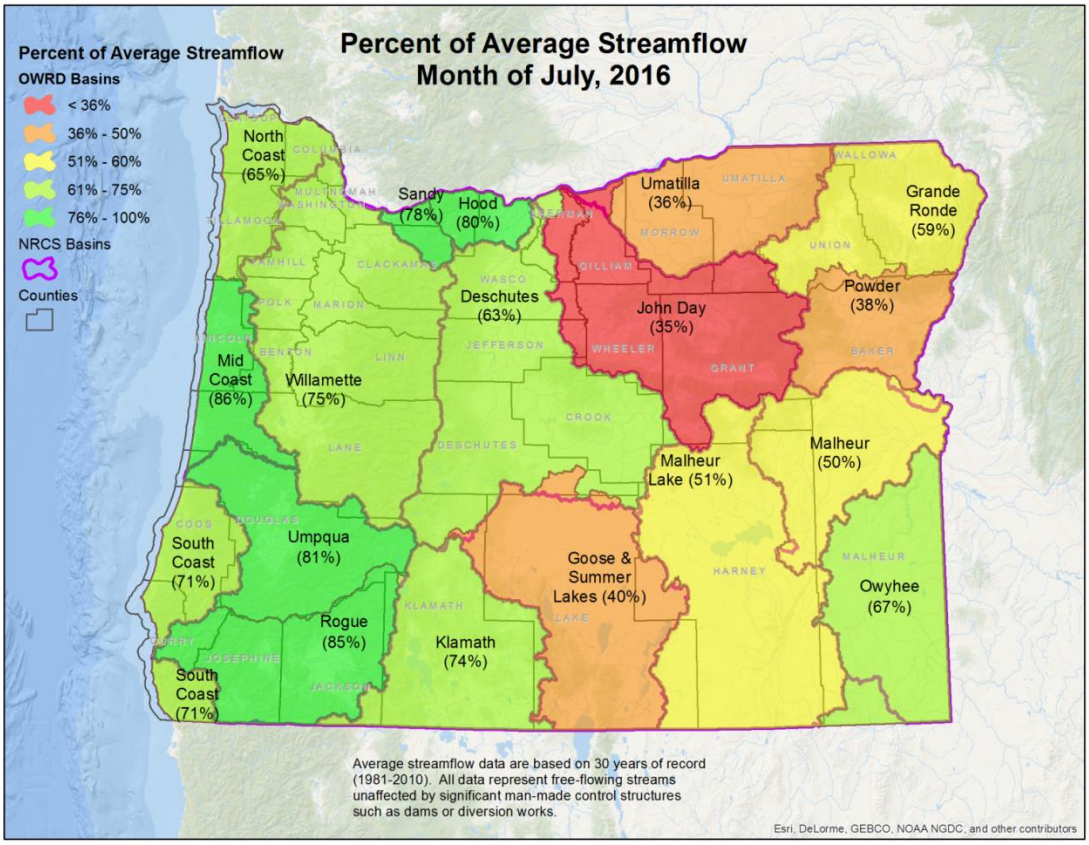
Fire potential is currently near to below normal for most of Oregon. So far, the number of acres burned from wildfire in 2016 has been below-normal. Recent rainfall and cooler temperatures have also temporarily improved the fire outlook. However, we can expect most areas to return to normal for the remainder 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.

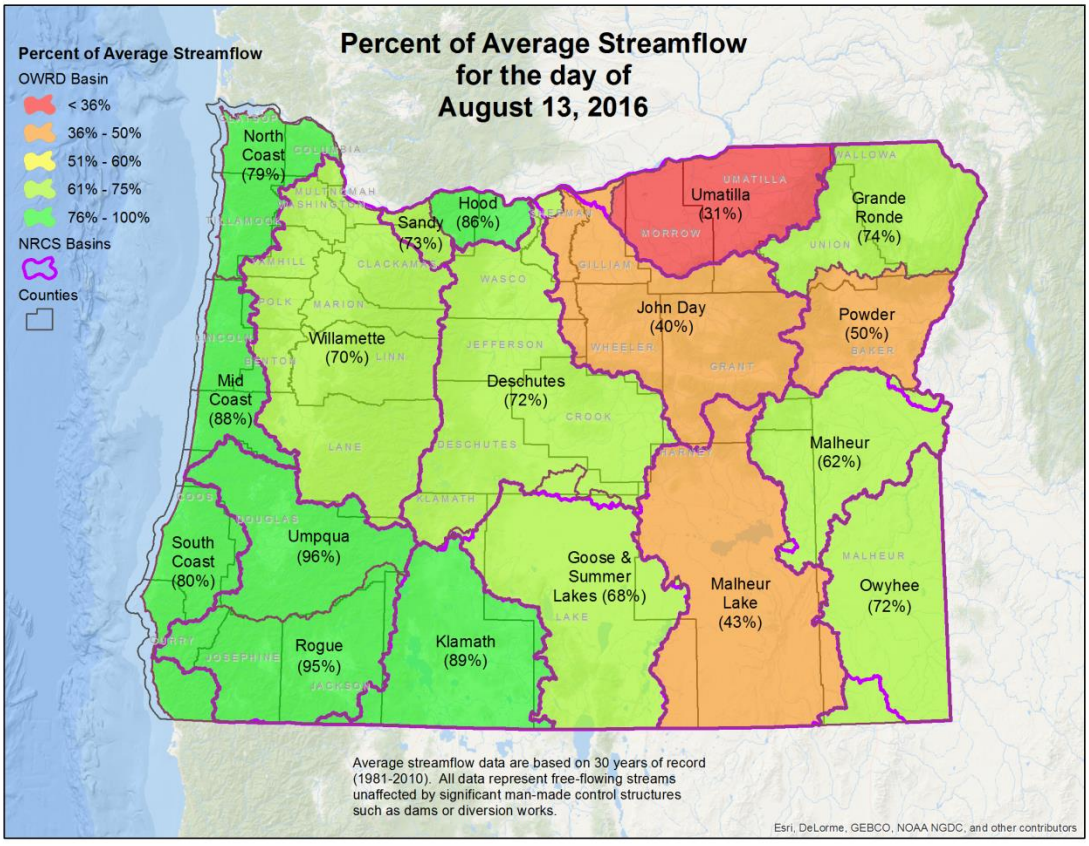
Data & Products: **Page:**

Streamflow Conditions



Streamflow Conditions (continued)

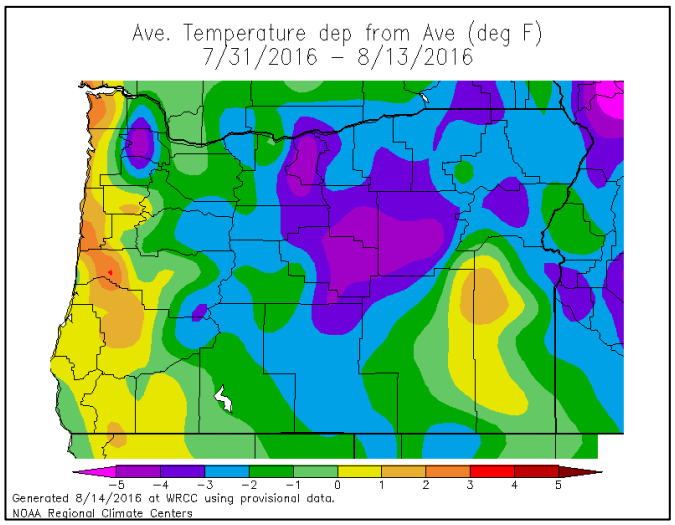




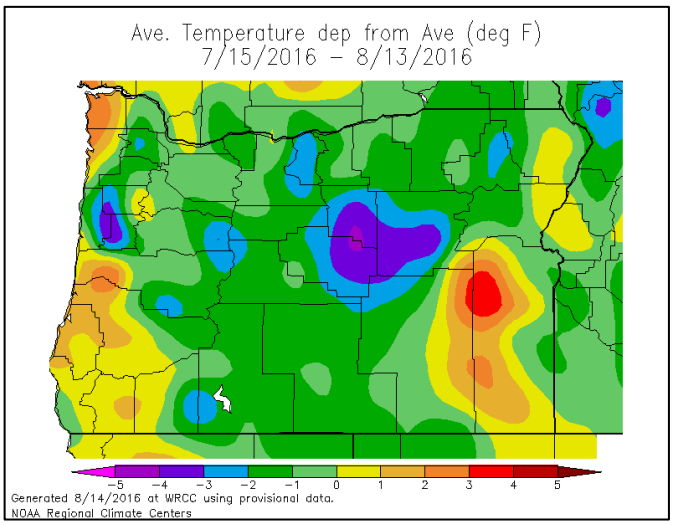
Temperature Departures

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

Last 14 days

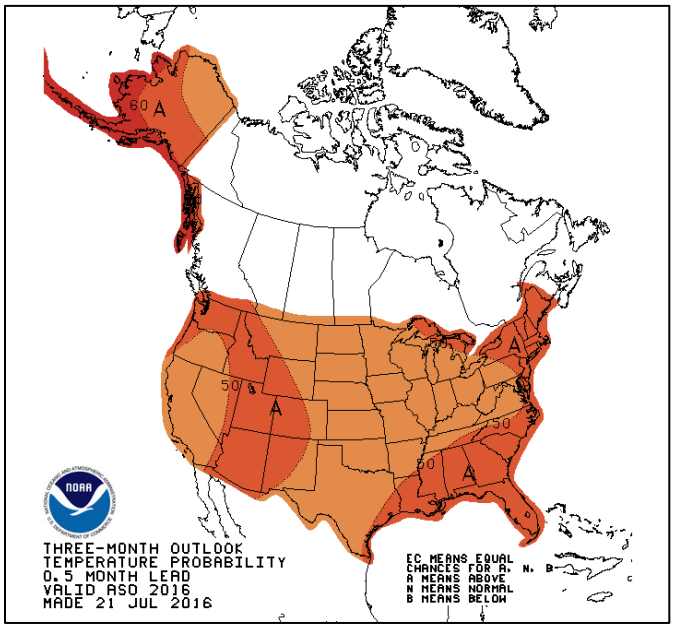


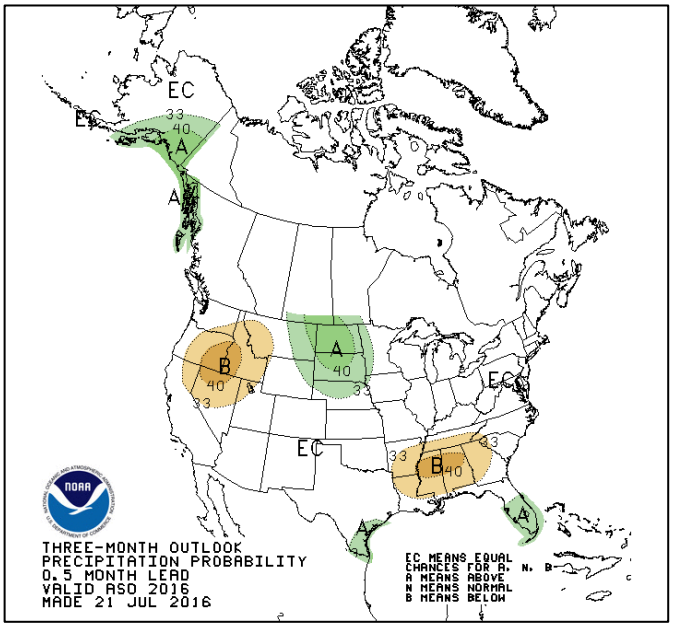
Last 30 days



Three Month Outlook (August-September-October 2016)

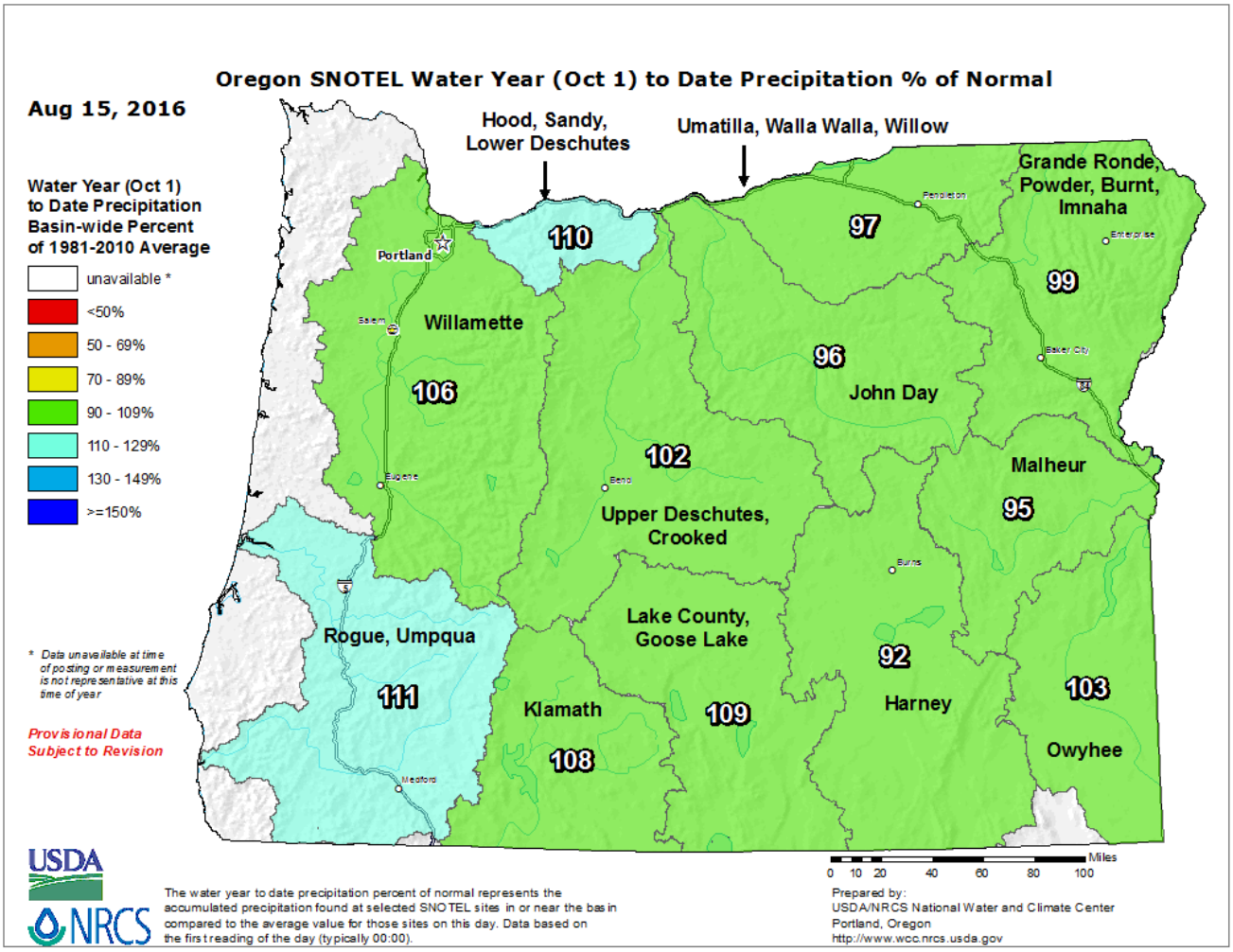
Website: http://www.cpc.ncep.noaa.gov/products/predictions/long_range/seasonal.php?lead=1





Precipitation – Water Year to Date

Website: http://www.wcc.nrcs.usda.gov/ftpref/gis/images/or_wytdprecpctnormal_update.png

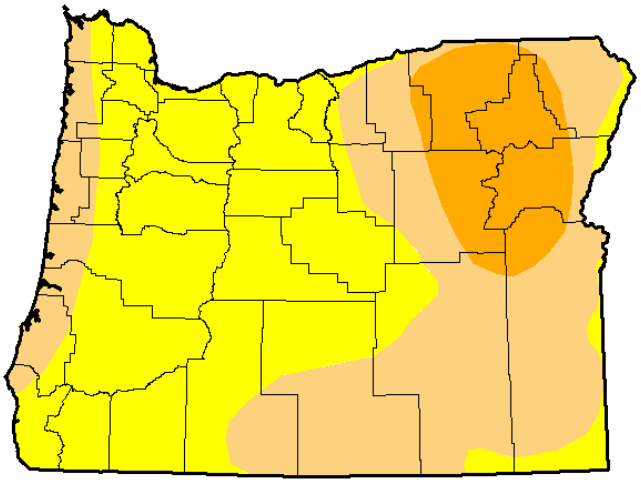


U.S. Drought Monitor for Oregon (August 11, 2016)

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

U.S. Drought Monitor

Oregon



August 9, 2016

(Released Thursday, Aug. 11, 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	50.20	12.03	0.00	0.00
Last Week 8/2/2016	0.00	100.00	49.75	0.00	0.00	0.00
3 Months Ago 5/10/2016	34.27	65.73	26.12	1.00	0.00	0.00
Start of Calendar Year 12/29/2015	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 8/11/2015	0.00	100.00	100.00	100.00	49.87	0.00

Intensity:

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

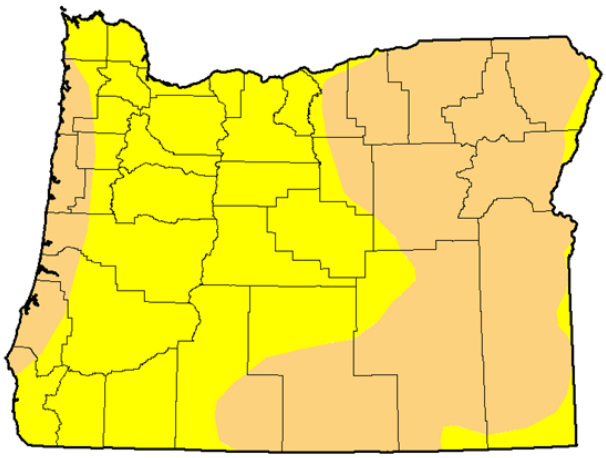
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

Author:
Richard Tinker
CPC/NOAA/NWS/NCEP

http://droughtmonitor.unl.edu/

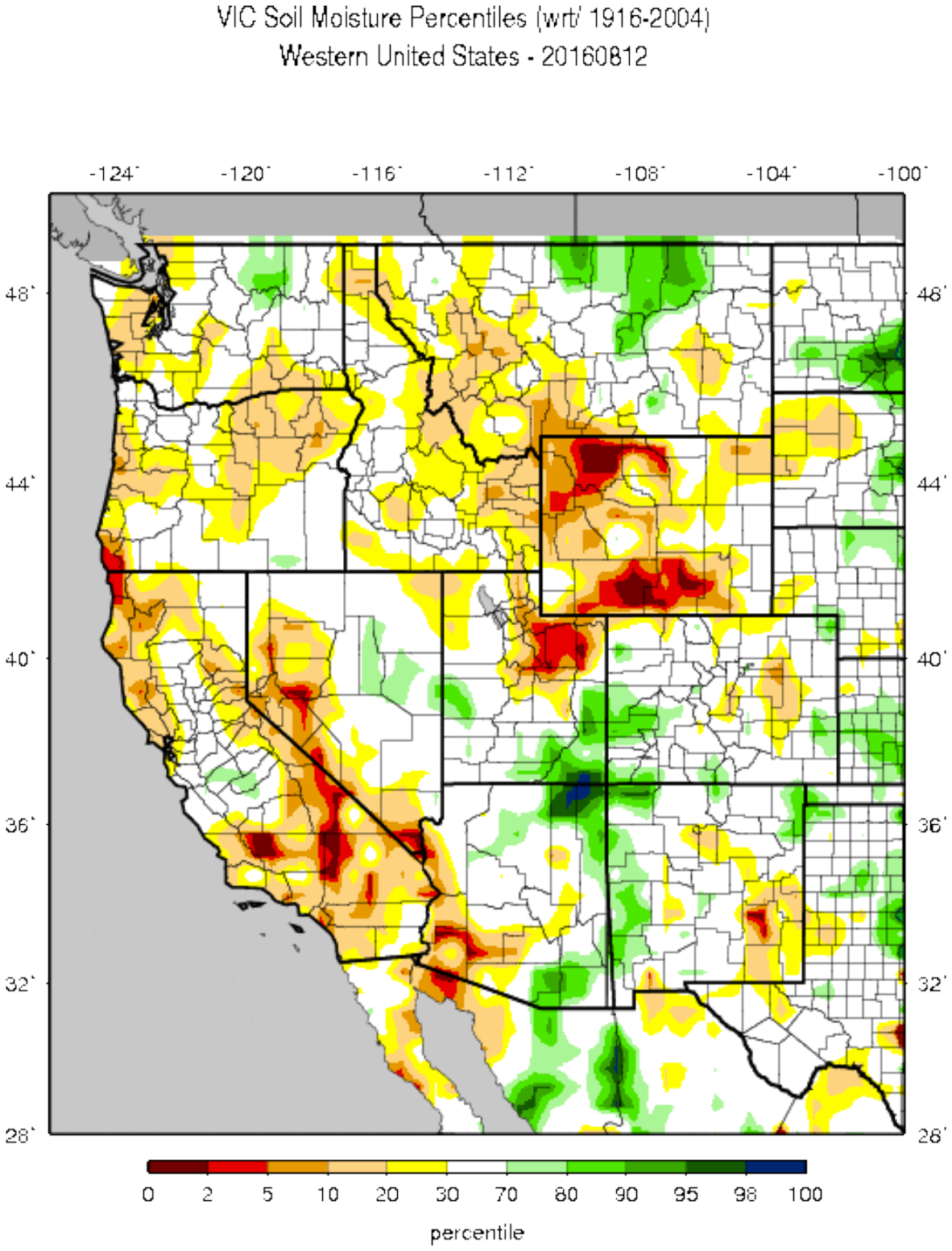
Note: Change from August 2, 2016 report

August 2, 2016



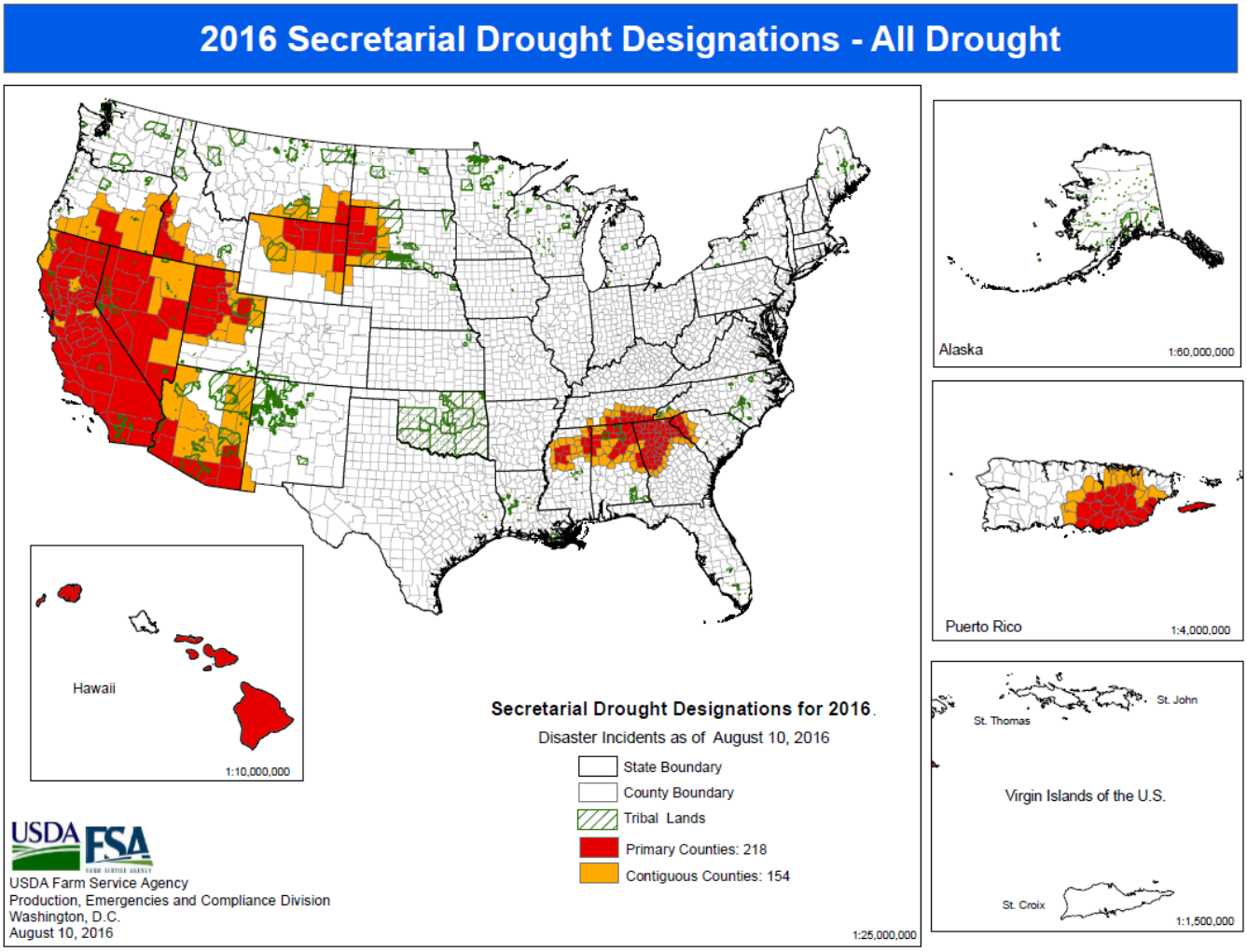
Soil Moisture

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



USDA Federal Drought Designations

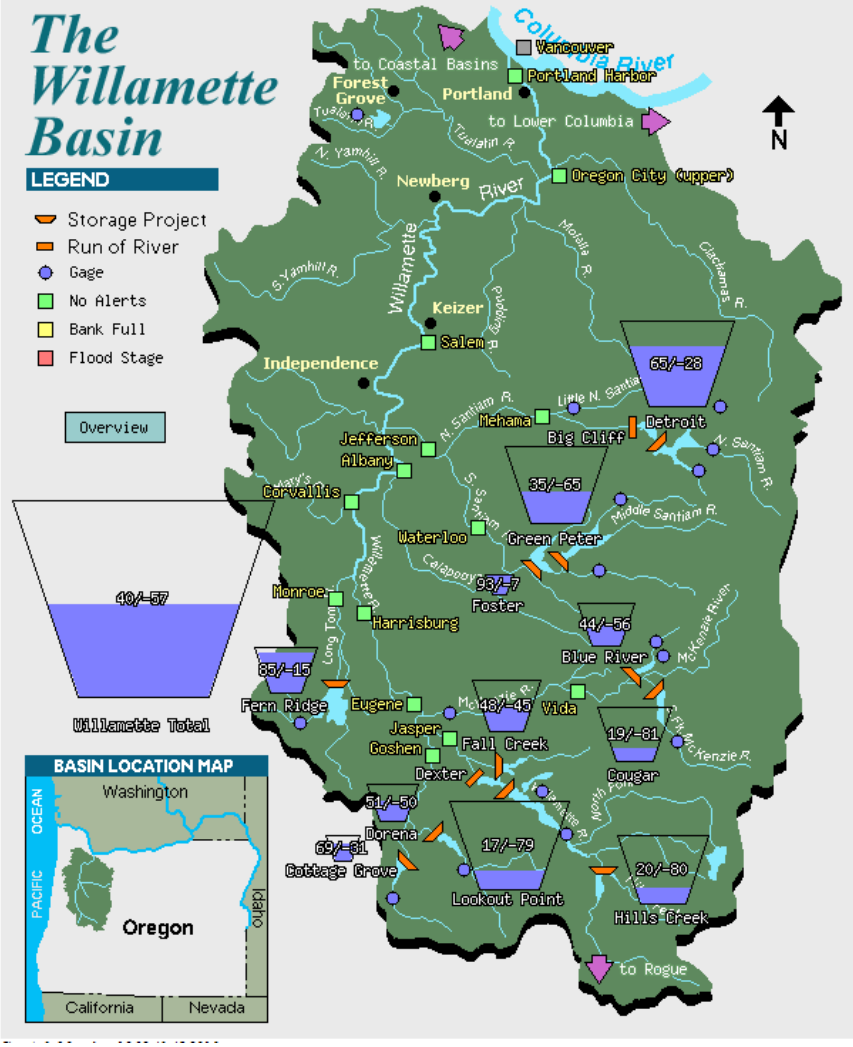
Website: http://www.usda.gov/documents/usda-drought-fast-track-designations.pdf



Reservoir Storage – Willamette River Basin

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

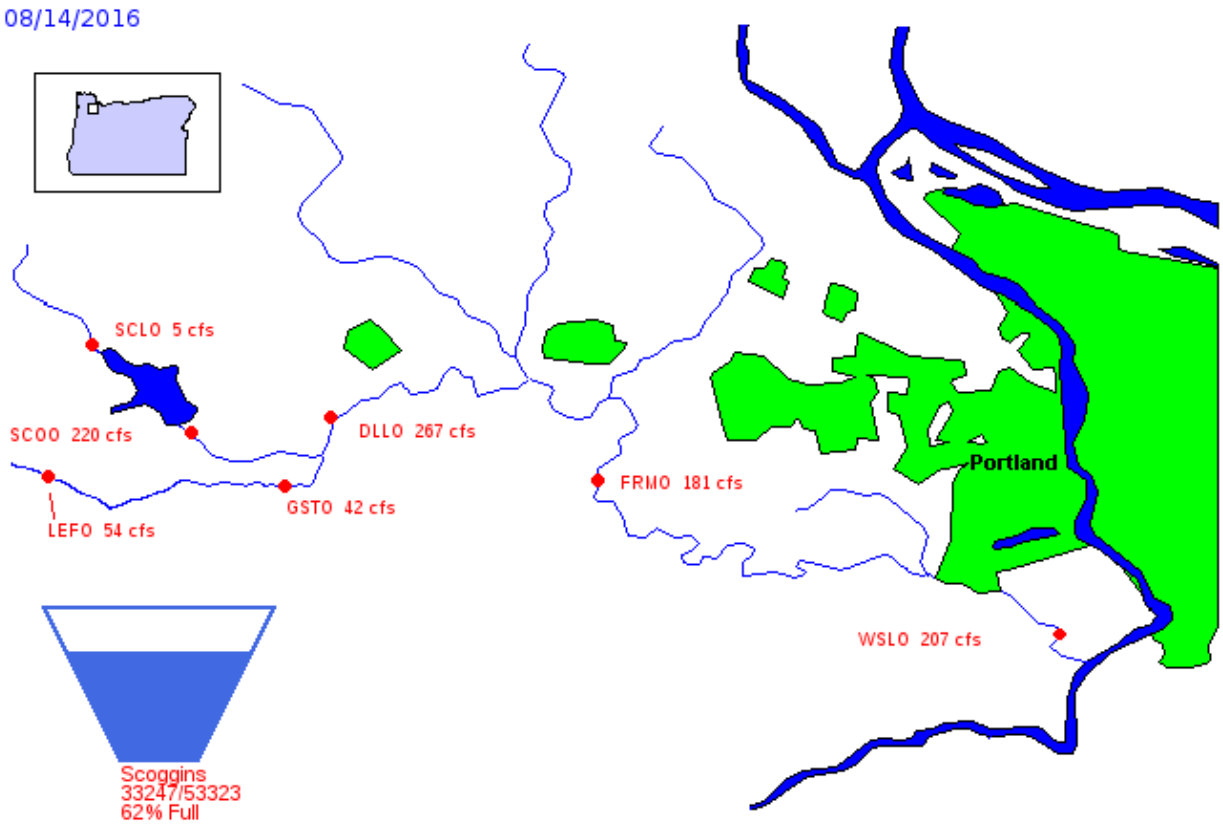
Reservoir	Percent Full on August 15, 2016
Blue River Reservoir	44 percent
Cottage Grove Reservoir	69 percent
Cougar Reservoir	19 percent
Detroit Reservoir	65 percent
Dorena Reservoir	51 percent
Fall Creek Reservoir	48 percent
Fern Ridge Reservoir	85 percent
Foster Reservoir	93 percent
Green Peter Reservoir	35 percent
Hills Creek Reservoir	20 percent
Lookout Point Reservoir	17 percent
Willamette Project Total:	40 percent



Reservoir Storage – Tualatin River Basin

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

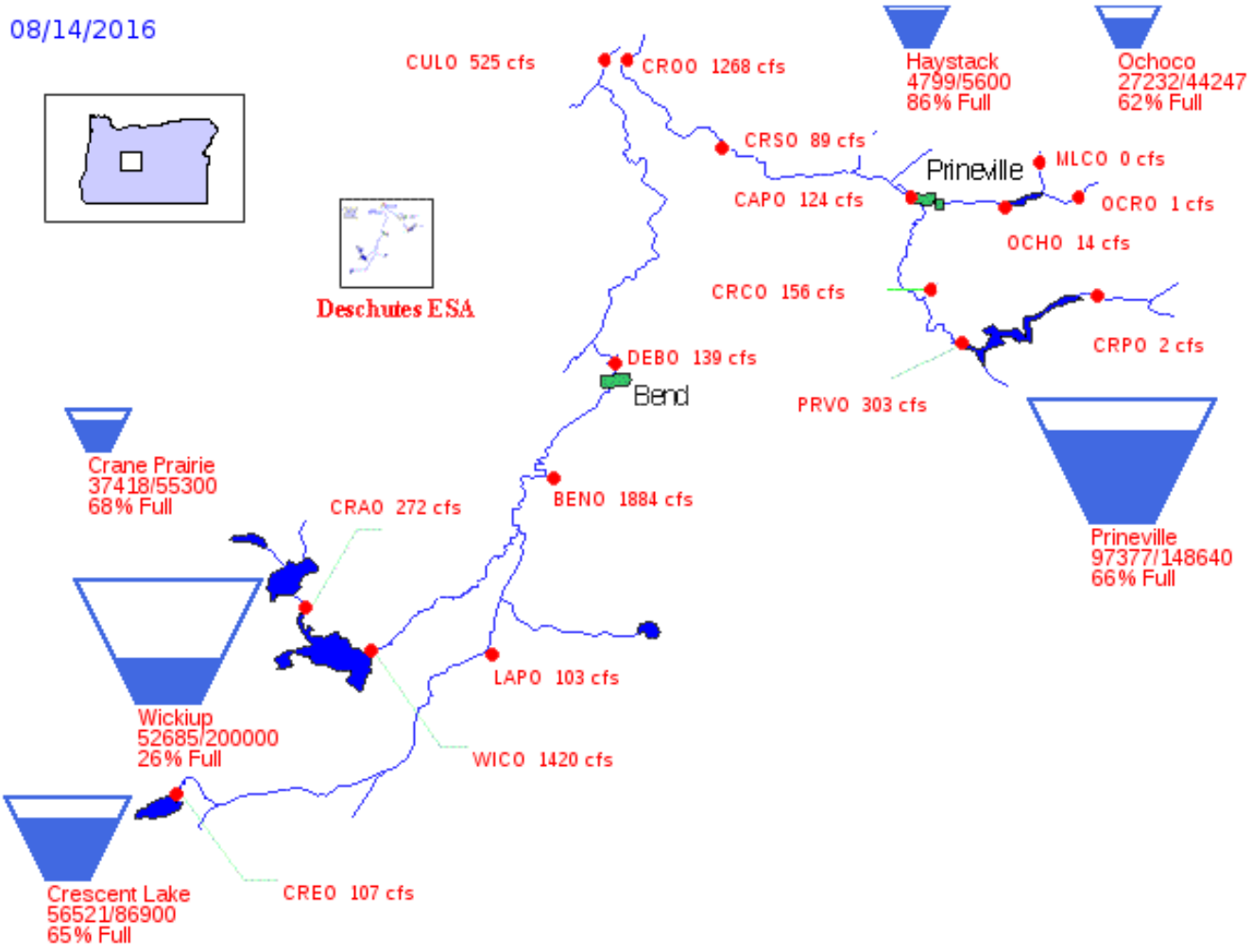
Reservoir	Percent Full on August 14, 2016
Scoggins Dam/Henry Hagg L.	62 percent



Reservoir Storage – Deschutes Basin

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

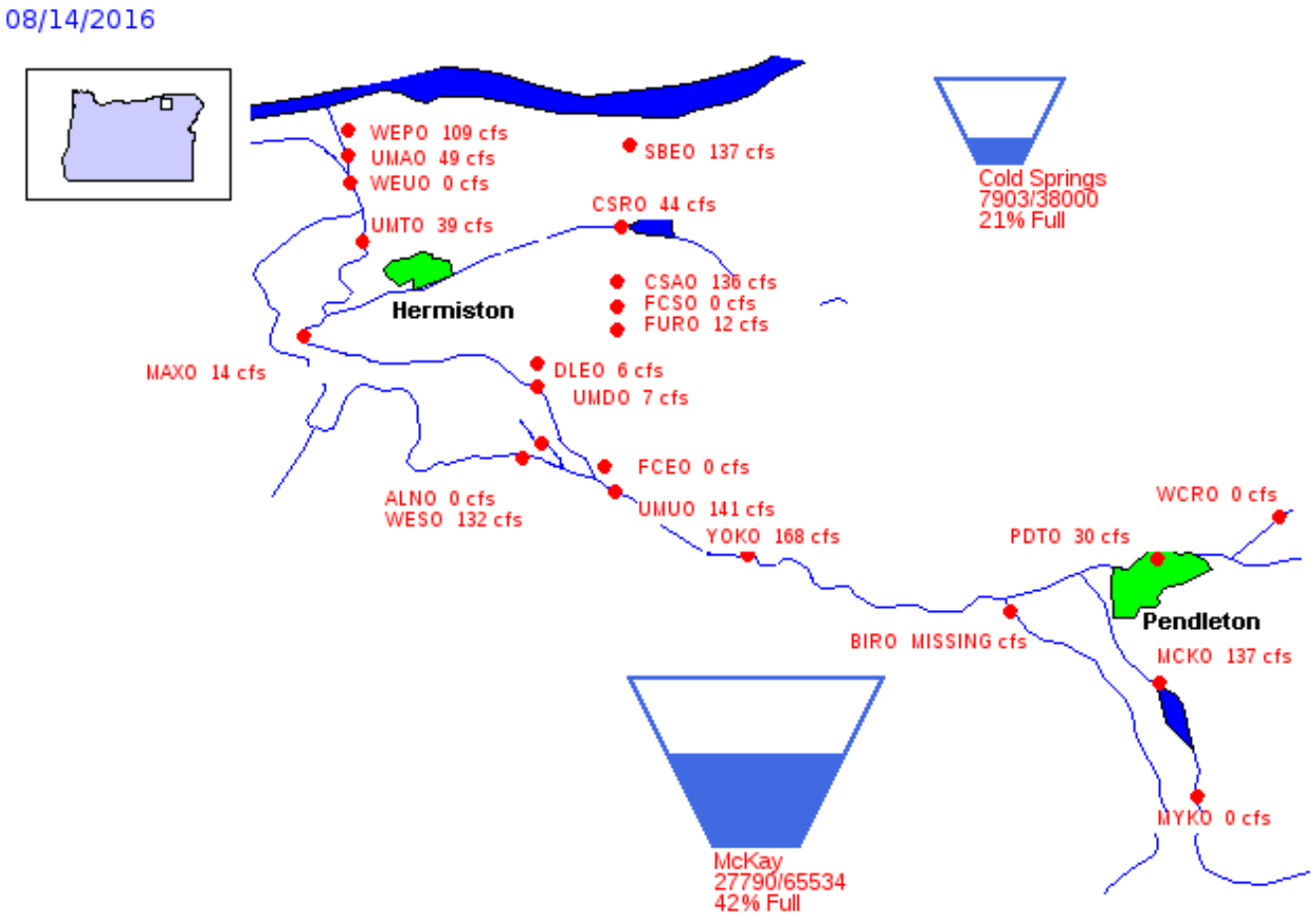
Reservoir	Percent Full on August 14, 2016
Crane Prairie Reservoir	68 percent
Crescent Lake	65 percent
Haystack Reservoir	86 percent
Ochoco Reservoir	62 percent
Prineville Reservoir	66 percent
Wickiup Reservoir	26 percent



Reservoir Storage – Umatilla River Basin

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

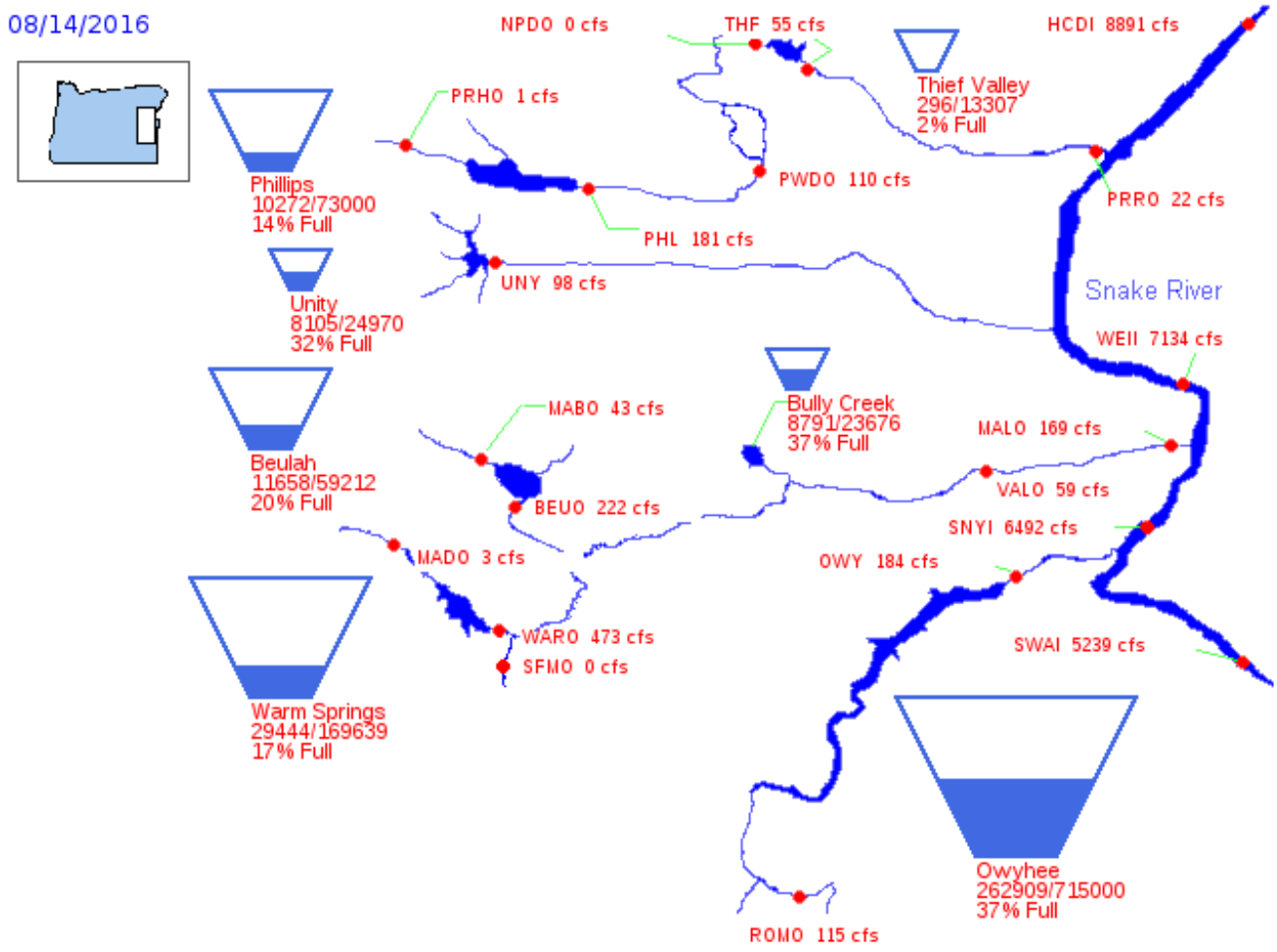
Reservoir	Percent Full on August 14, 2016
Cold Springs Reservoir	21 percent
McKay Reservoir	42 percent



Reservoir Storage – Southeastern Oregon

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

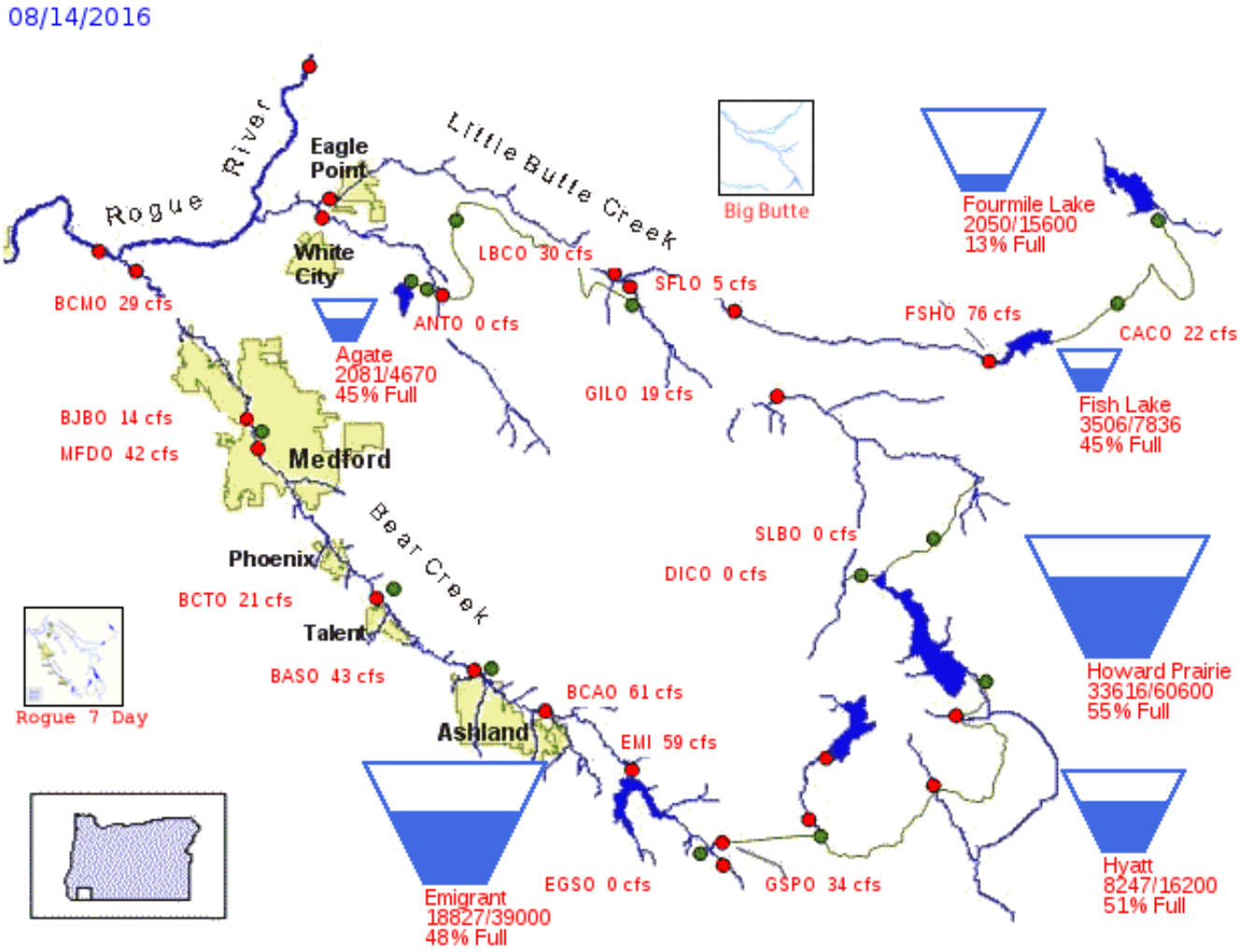
Reservoir	Percent Full on August 14, 2016
Beulah Reservoir	20 percent
Bully Creek Reservoir	37 percent
Owyhee Reservoir	37 percent
Phillips Reservoir	14 percent
Thief Valley Reservoir	2 percent
Unity Reservoir	32 percent
Warm Springs Reservoir	17 percent



Reservoir Storage – Rogue River Basin

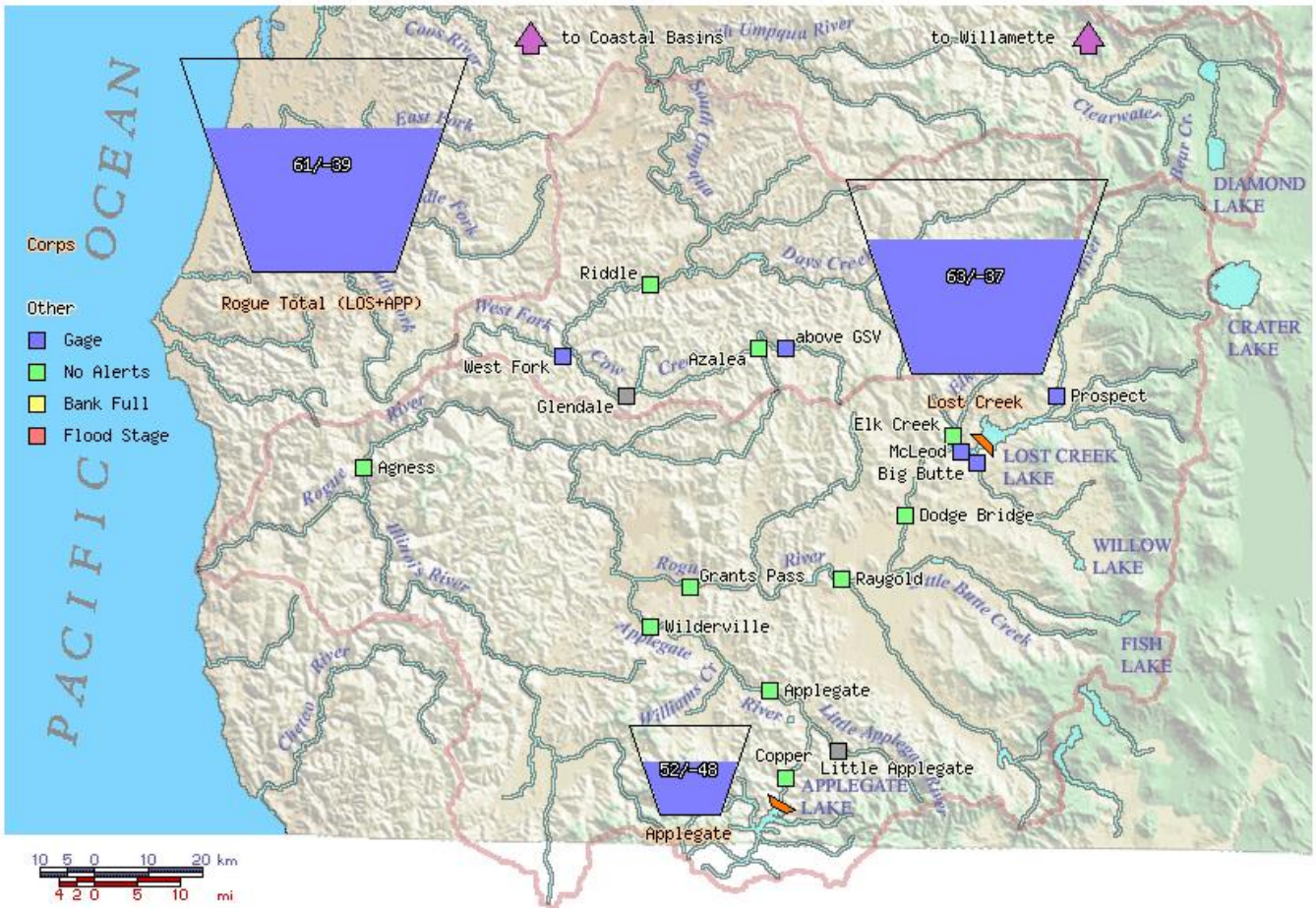
Website: http://www.usbr.gov/pn/hydromet/roguetea.html

Reservoir	Percent Full on August 14, 2016
Agate Reservoir	45 percent
Applegate Reservoir	52 percent
Emigrant Lake	48 percent
Fish Lake	45 percent
Fourmile Lake	13 percent
Howard Prairie	55 percent
Hyatt Reservoir	51 percent
Lost Creek Reservoir	63 percent



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 15, 2016
Upper Klamath Lake	43 percent
Clear Lake	18 percent
Gerber Reservoir	24 percent