Water Conditions Report
July 5, 2016

Precipitation for June was below normal for much of the state. Although all basins have received near average amounts of precipitation for the year so far, June was the third month in a row to be drier than usual for much of the state. The only areas that have seen appreciable amounts of precipitation in June were the North Coast, the eastern part of the Klamath Basin, the upper Rogue, the Willamette Basin, and the southwest corner of the Goose & Summer Lake Basin. Even so, the amount of precipitation in these areas was not enough to offset the early loss of snowpack. While unlikely to occur in substantial amounts, July precipitation will play a critical role in meeting water supply demand.

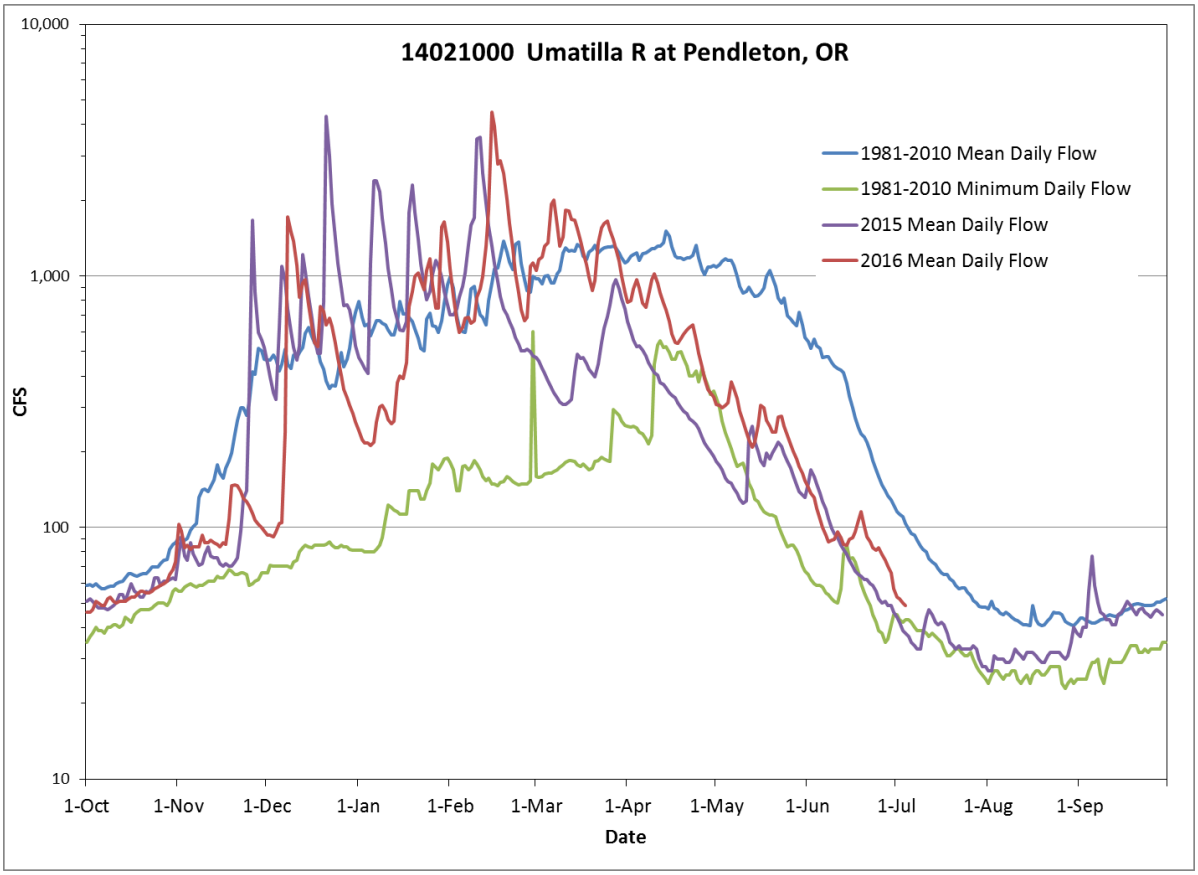
Several streamflow sites are now approaching record lows for this time of year. Most streams and rivers throughout the state reached their snowmelt-driven streamflow peak much earlier than usual. Streams in areas that rely on low-elevation snowpack are at base flow conditions. Basins most heavily stressed are coastal basins (with 30 to 47 percent of average streamflow), the Umpqua (36 percent), and the Umatilla (22 percent). Streamflows in these basins are at a record low, in some instances, even below measurements taken this time last year. Although short-lived, recent cool, showery weather temporarily helped to improve stream flows in some of these areas.

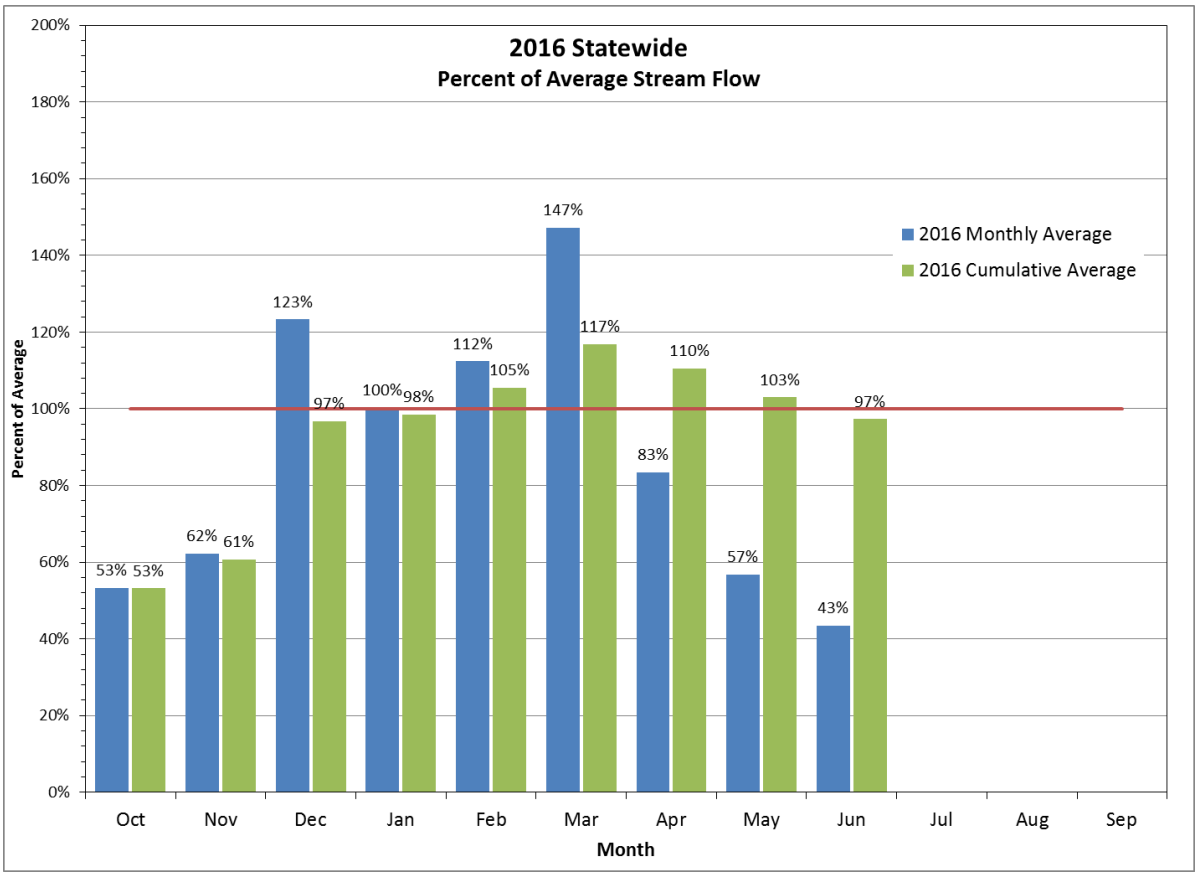
The US Drought Monitor shows 100 percent of the state abnormally dry. As of June 28, the entire state is in the D0 category (abnormally dry). Stretching from north central Oregon to eastern Klamath County and eastward, more than 40 percent of the state is also listed in the D1 category (moderate drought). No change is noted from the report released two weeks ago.

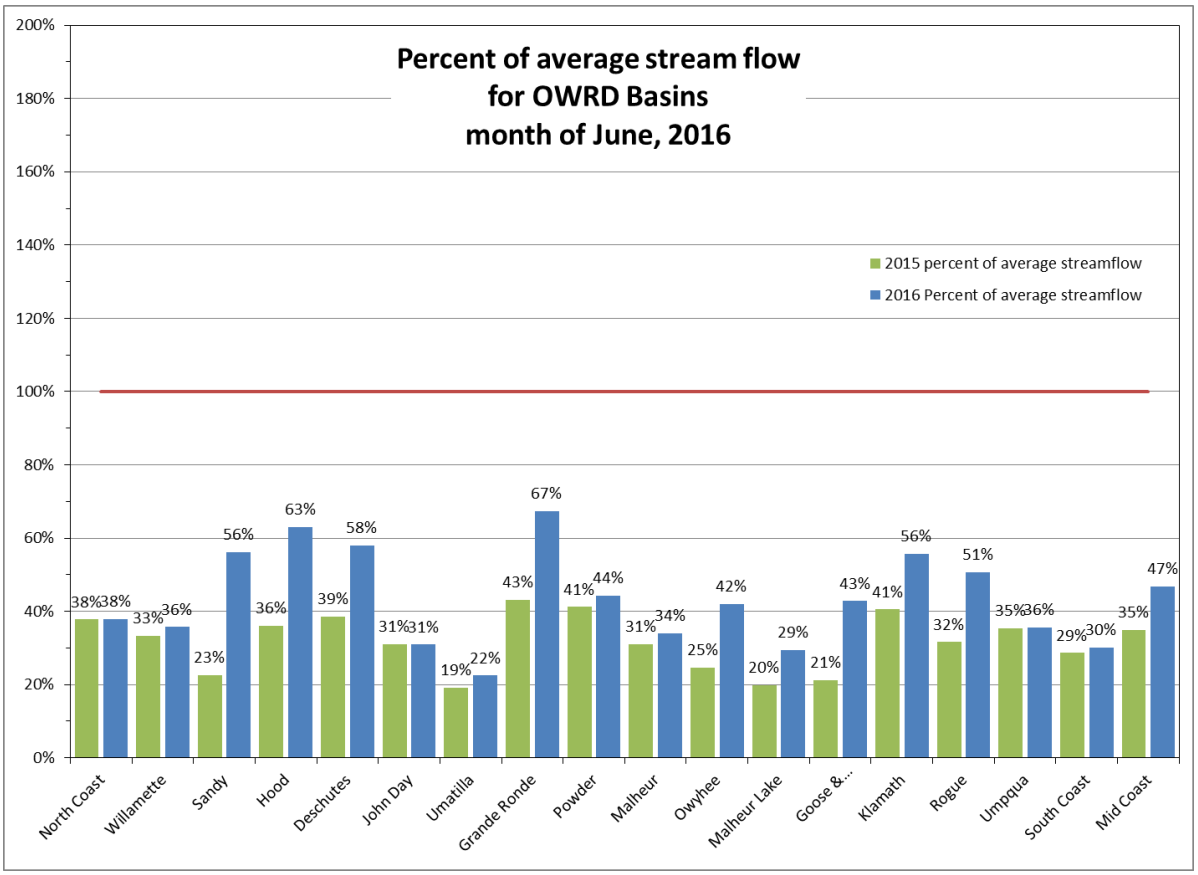
Temperature Outlook is for above-normal temperatures through September. Currently, NOAA's Climate Prediction Center is calling for above normal temperatures through the September outlook period. Climate conditions are favorable for the development of La Niña—typically bringing cooler and wetter conditions—this fall and winter in the Pacific Northwest.

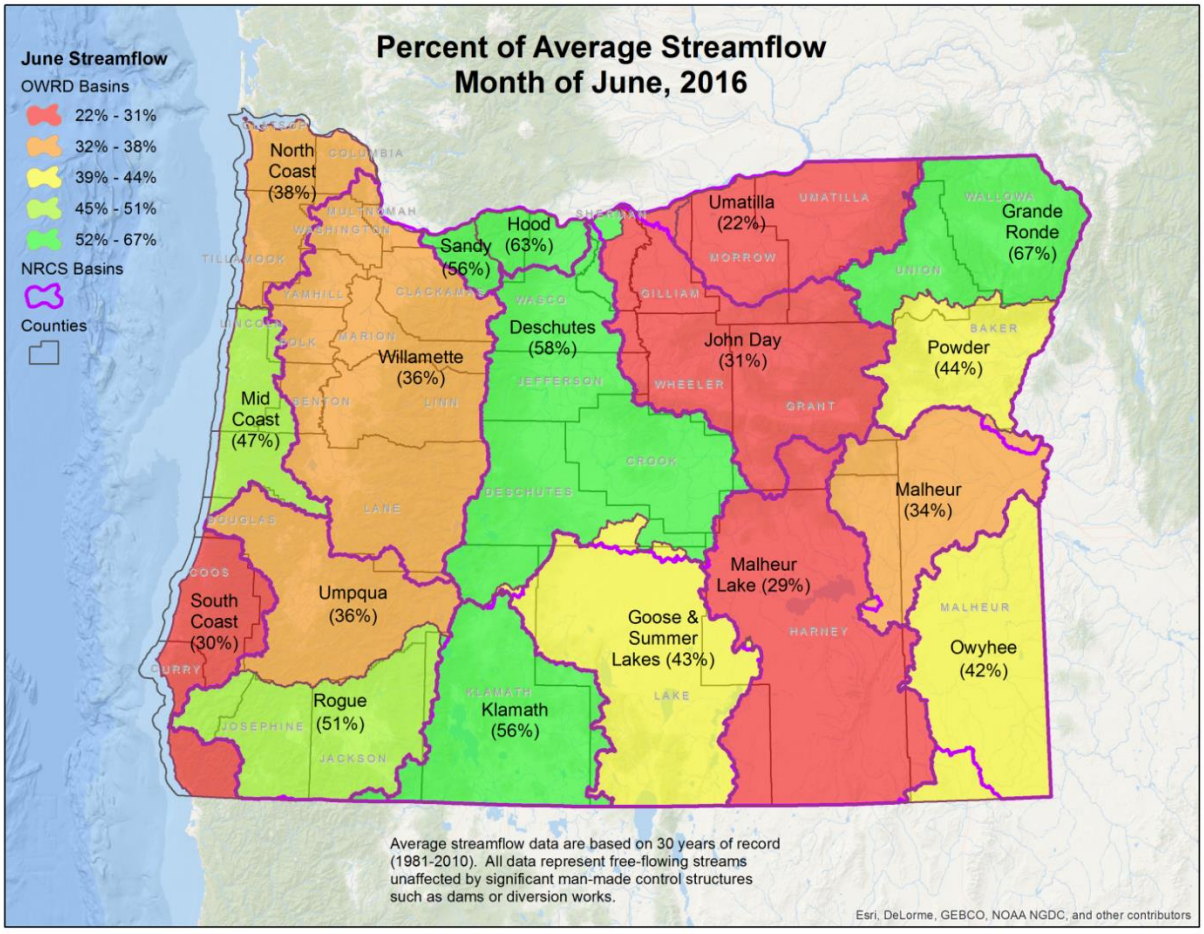
Data & Products: **Page:**

Streamflow Conditions





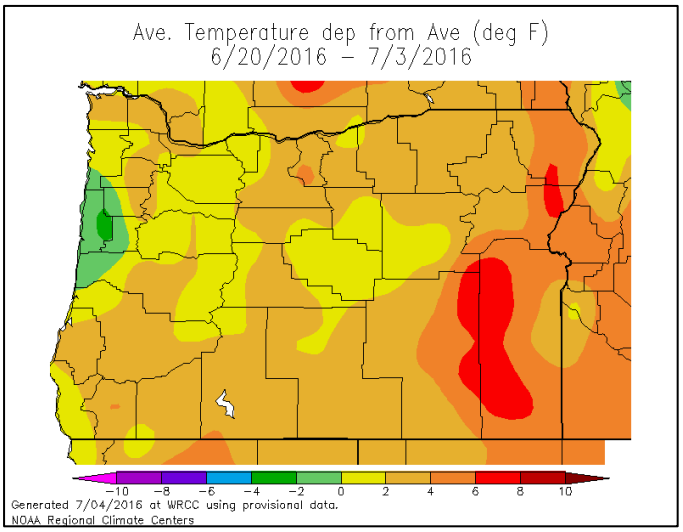

Percent of average stream flow
for OWRD Basins
month of June, 2016
2015 percent of average streamflow
2016 Percent of average streamflow
200%
180%
160%
140%
120%
100%
80%
60%
40%
20%
0%
North Coast
Willamette
Sandy
Hood
Deschutes
John Day
Umatilla
Grande Ronde
Powder
Malheur
Owyhee
Malheur Lake
Goose &...
Klamath
Rogue
Umpqua
South Coast
Mid Coast


Percent of Average Streamflow
Month of June, 2016
June Streamflow
OWRD Basins
22% - 31%
32% - 38%
39% - 44%
45% - 51%
52% - 67%
NRCS Basins
Counties
North Coast (38%)
Sandy (56%)
Hood (63%)
Umatilla (22%)
Grande Ronde (67%)
Deschutes (58%)
John Day (31%)
Powder (44%)
Willamette (36%)
Mid Coast (47%)
Malheur (34%)
Malheur Lake (29%)
Goose & Summer Lakes (43%)
Owyhee (42%)
Umpqua (36%)
South Coast (30%)
Rogue (51%)
Klamath (56%)
Average streamflow data are based on 30 years of record (1981-2010). All data represent free-flowing streams unaffected by significant man-made control structures such as dams or diversion works.
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors

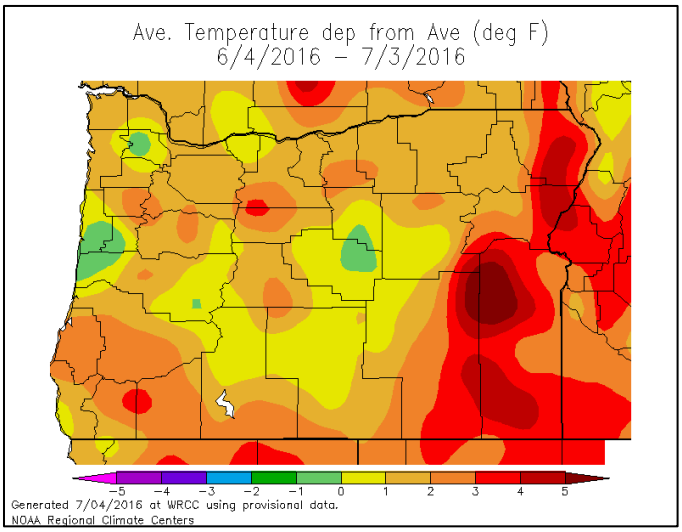
Temperature Departures

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

Last 14 days

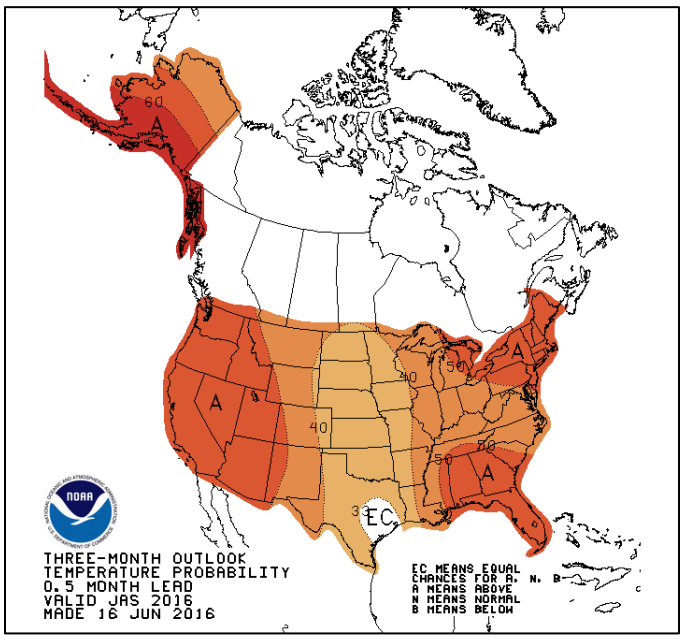


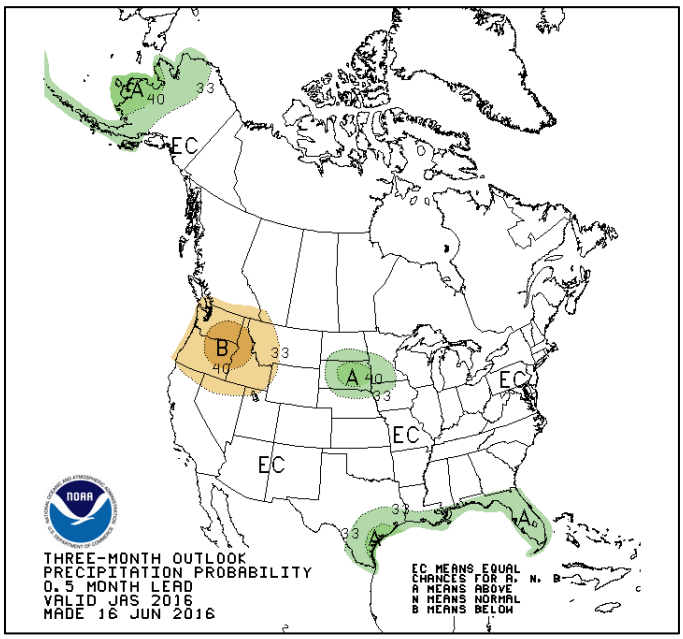
Last 30 days



Three Month Outlook (July-August-September 2016)

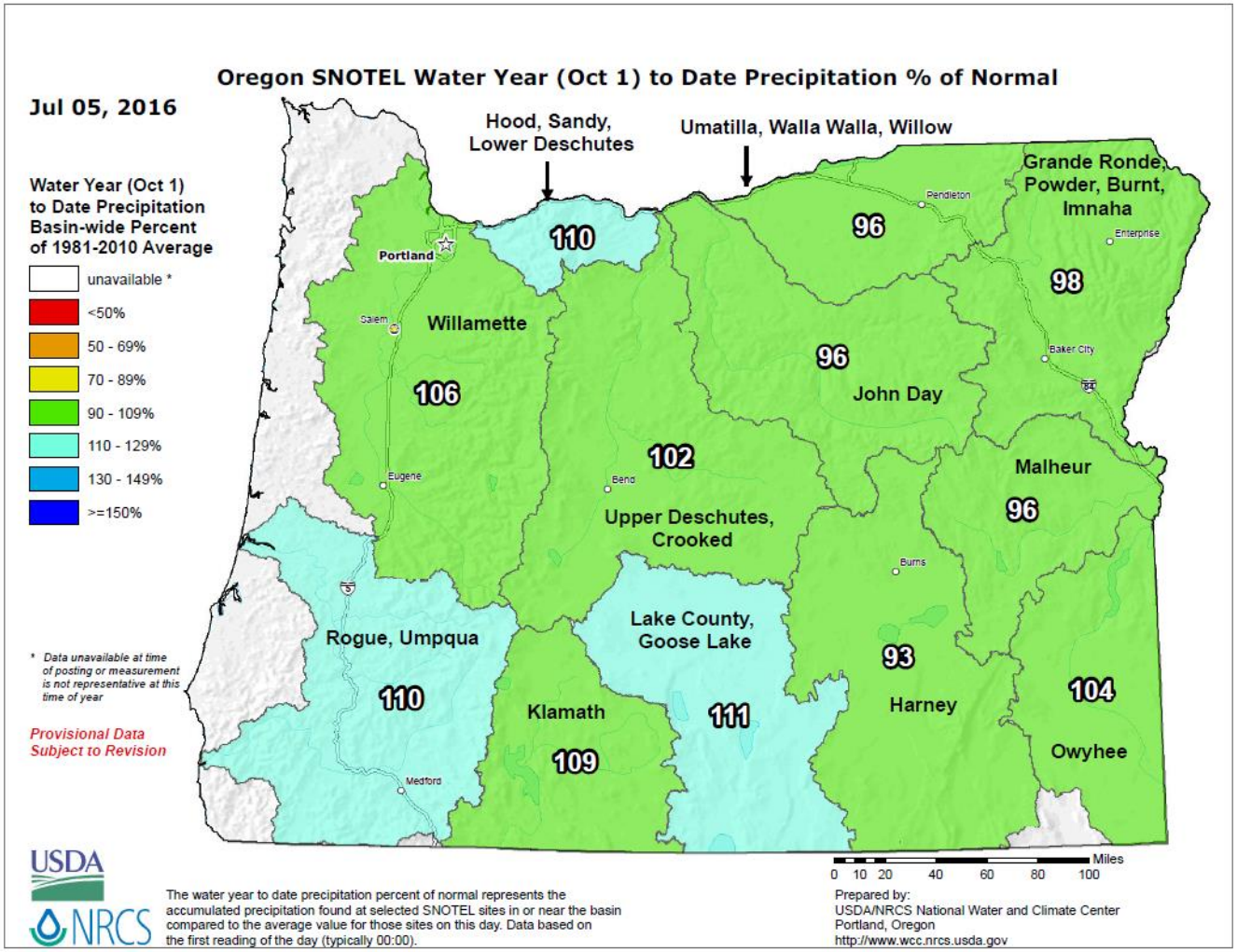
Website: http://www.cpc.ncep.noaa.gov/products/predictions/long_range/seasonal.php?lead=1





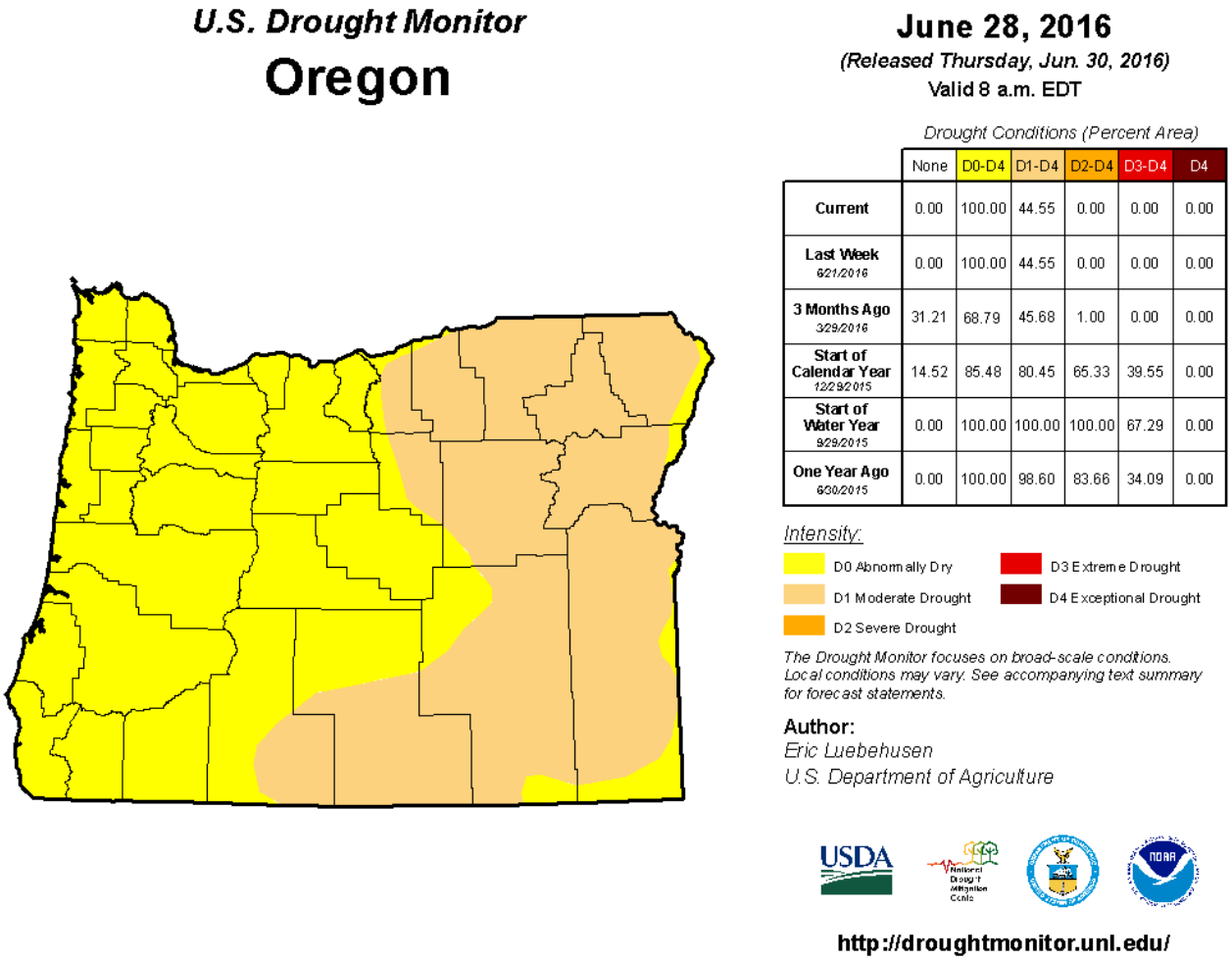
SNOTEL Water Year (Oct 1) to Date Precipitation % of Normal

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



Drought Monitor for Oregon (June 28, 2016)

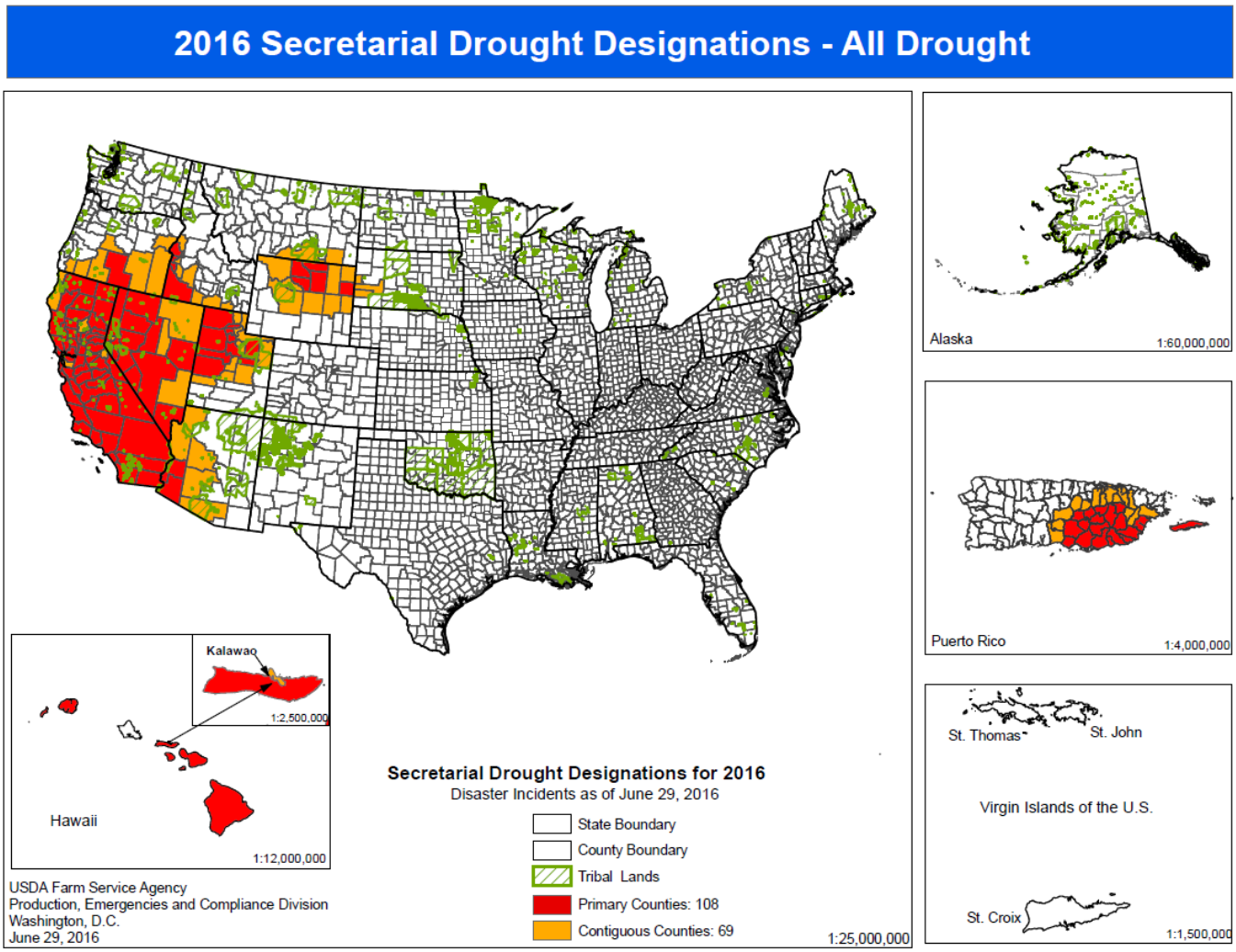
Website: http://droughtmonitor.unl.edu/Home/StateDroughtMonitor.aspx?OR



Note: No change from the June 14, 2016 report.

USDA Federal Drought Designations

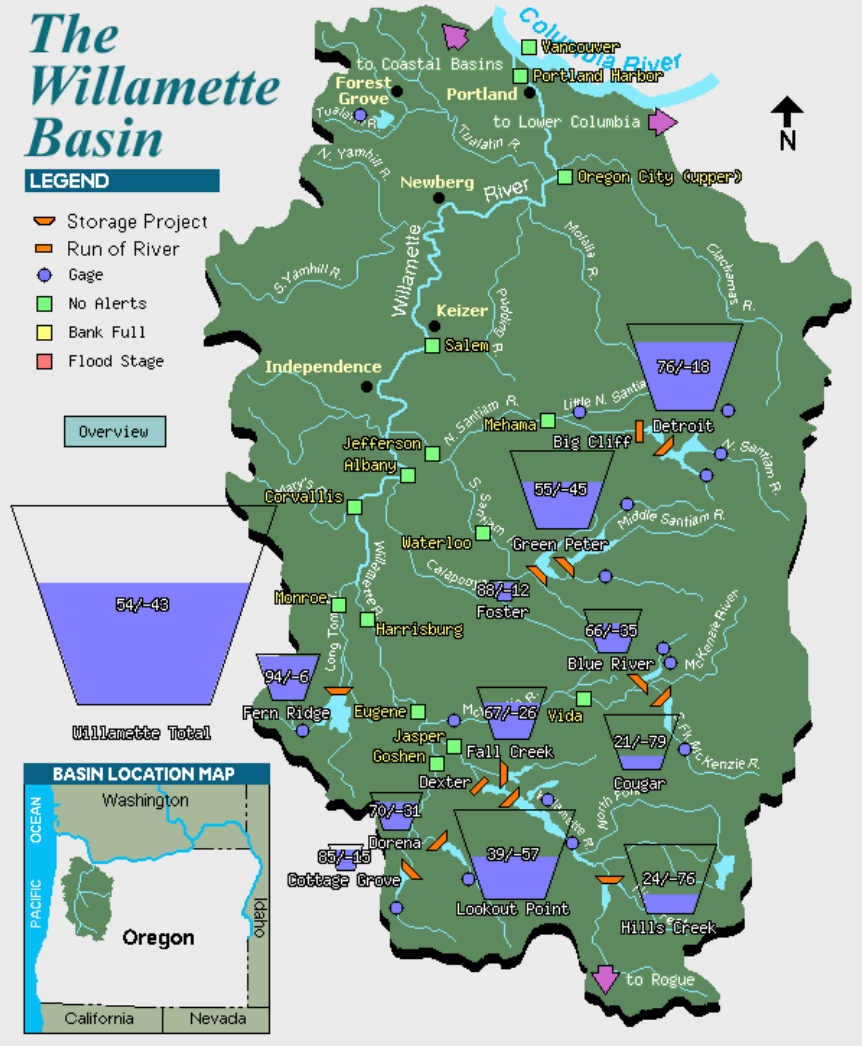
Website: http://www.usda.gov/documents/usda-drought-fast-track-designations.pdf



Reservoir Storage – Willamette River Basin

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

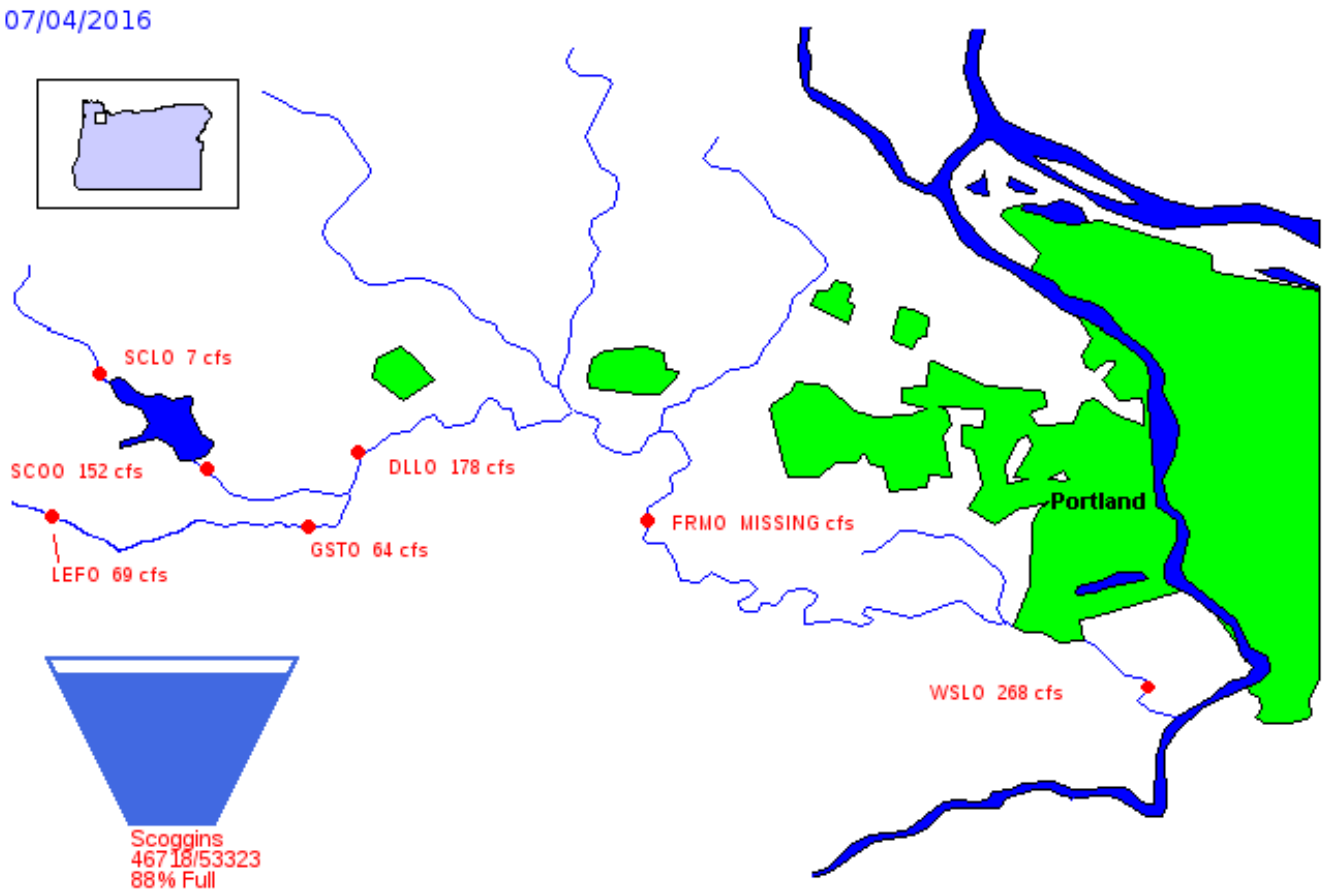
Reservoir	Percent Full on July 5, 2016
Blue River Reservoir	66 percent
Cottage Grove Reservoir	85 percent
Cougar Reservoir	21 percent
Detroit Reservoir	76 percent
Dorena Reservoir	70 percent
Fall Creek Reservoir	67 percent
Fern Ridge Reservoir	94 percent
Foster Reservoir	88 percent
Green Peter Reservoir	55 percent
Hills Creek Reservoir	24 percent
Lookout Point Reservoir	39 percent
Willamette Project Total:	54 percent



Reservoir Storage – Tualatin River Basin

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

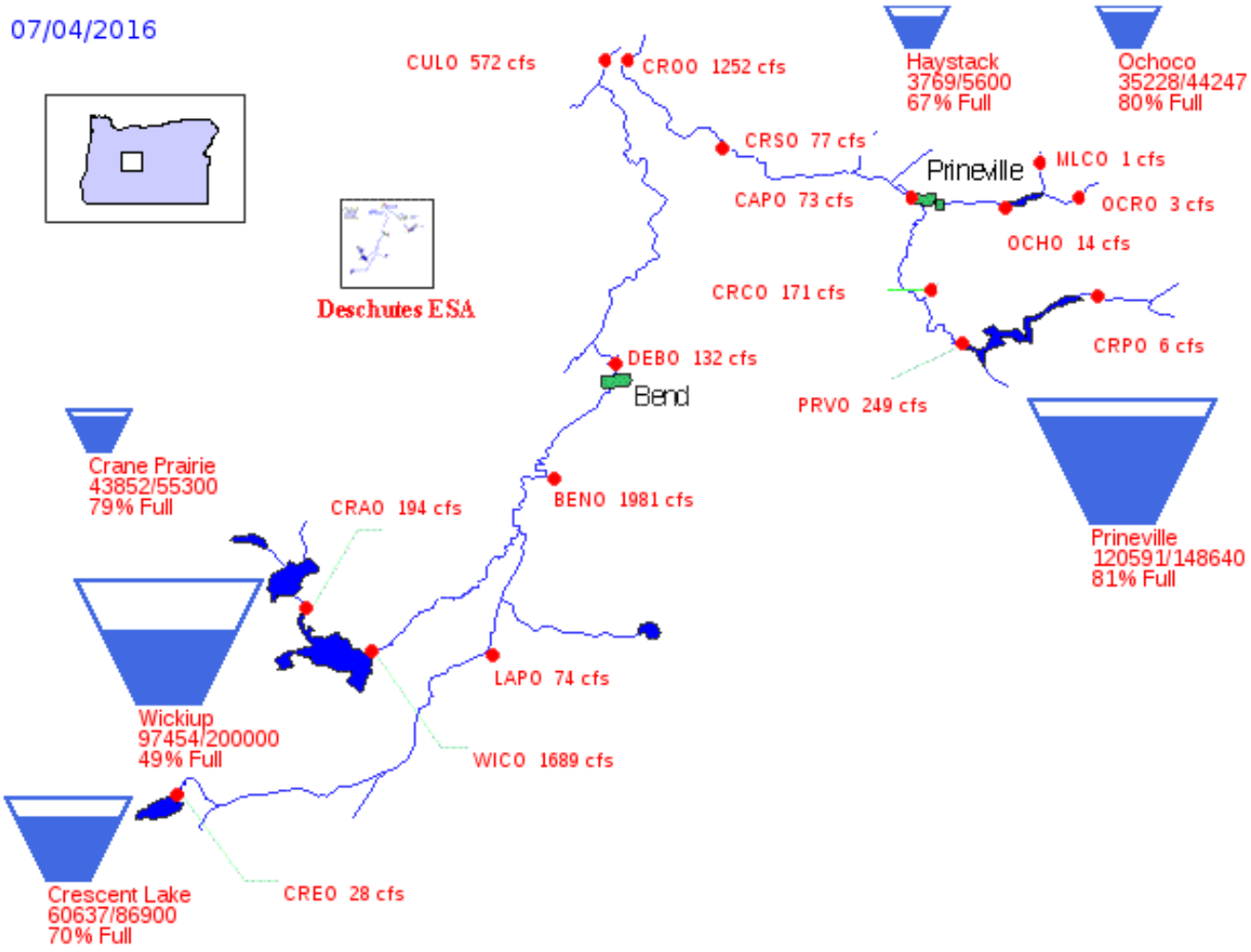
Reservoir	Percent Full on July 4, 2016
Scoggins Dam/Henry Hagg L.	88 percent



Reservoir Storage – Deschutes Basin

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

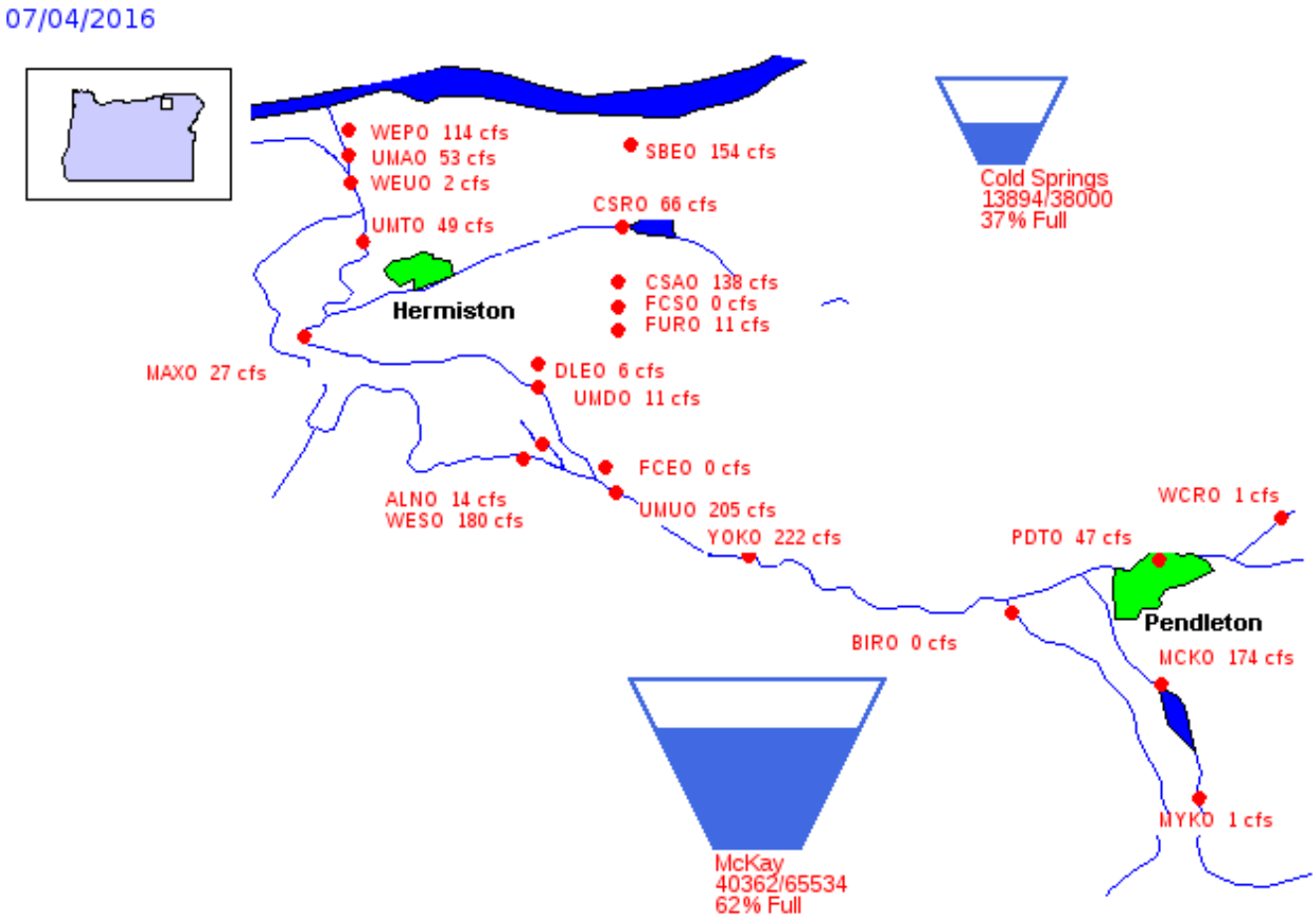
Reservoir	Percent Full on July 4, 2016
Crescent Lake	70 percent
Wickiup Reservoir	49 percent
Crane Prairie Reservoir	79 percent
Prineville Reservoir	81 percent
Ochoco Reservoir	80 percent
Haystack Reservoir	67 percent



Reservoir Storage – Umatilla River Basin

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

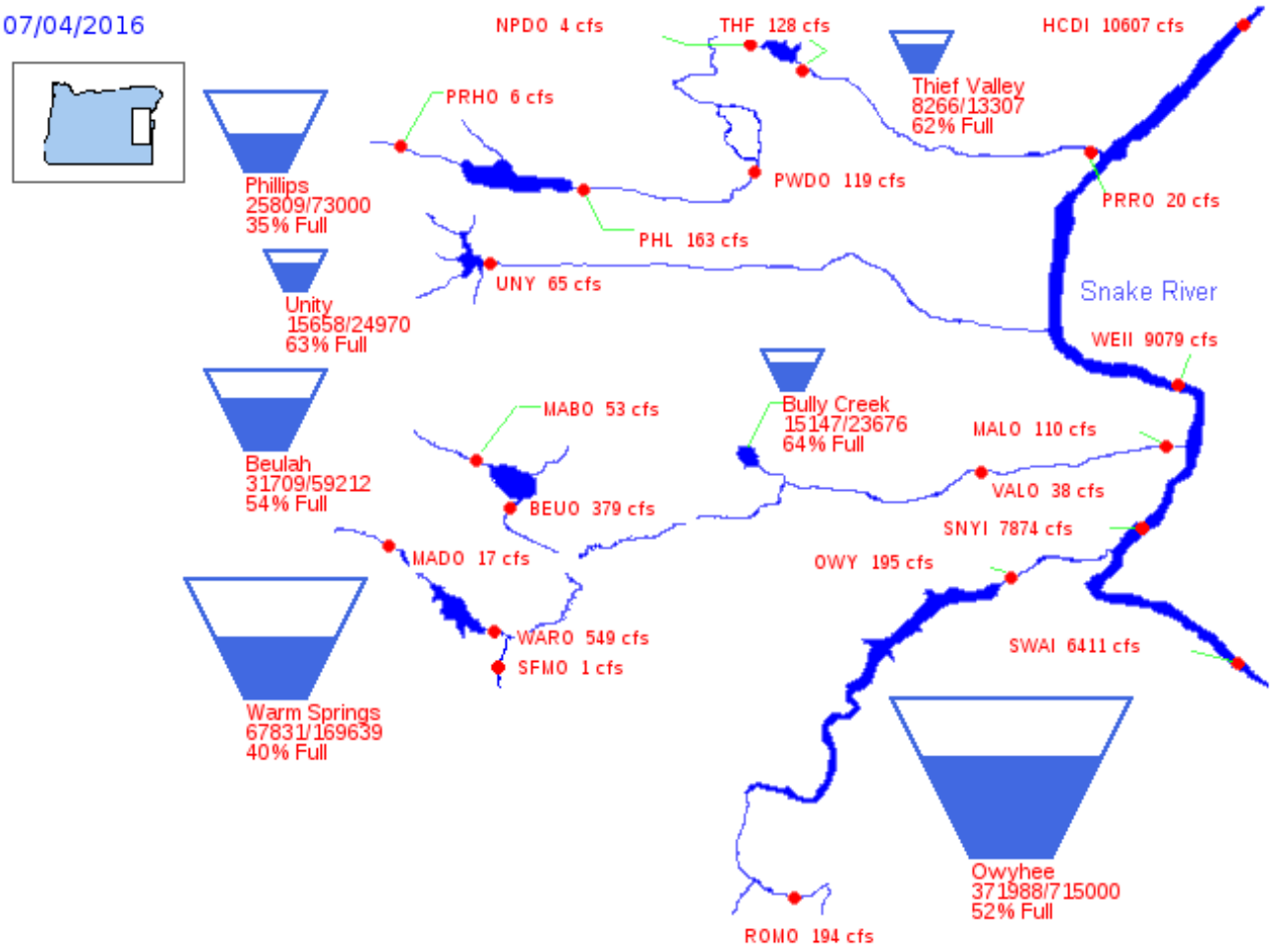
Reservoir	Percent Full on July 4, 2016
Cold Springs Reservoir	37 percent
McKay Reservoir	62 percent



Reservoir Storage – Southeastern Oregon

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

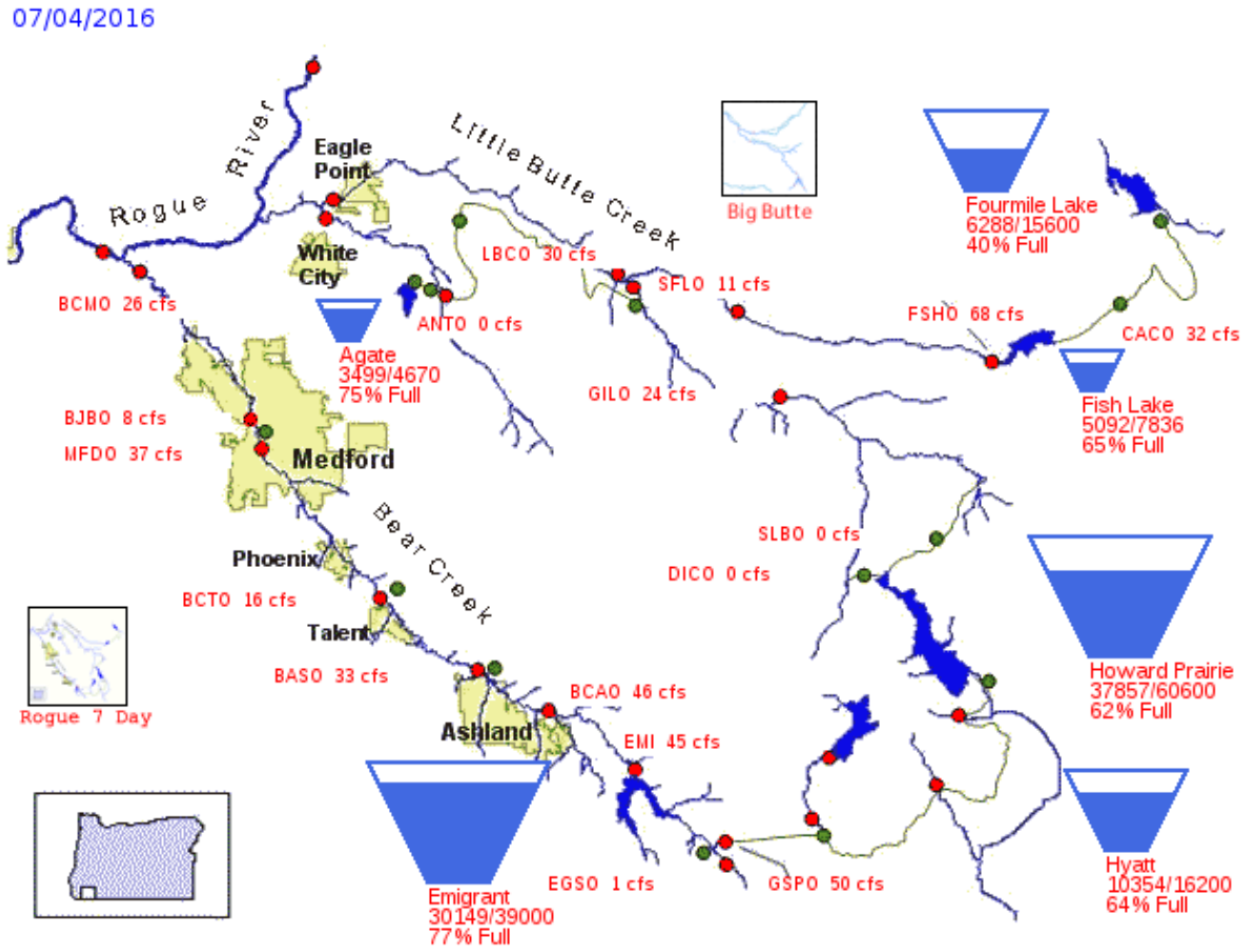
Reservoir	Percent Full on July 4, 2016
Phillips Reservoir	35 percent
Thief Valley Reservoir	62 percent
Unity Reservoir	63 percent
Beulah Reservoir	54 percent
Bully Creek Reservoir	64 percent
Warm Springs Reservoir	40 percent
Owyhee Reservoir	52 percent



Reservoir Storage – Rogue River Basin

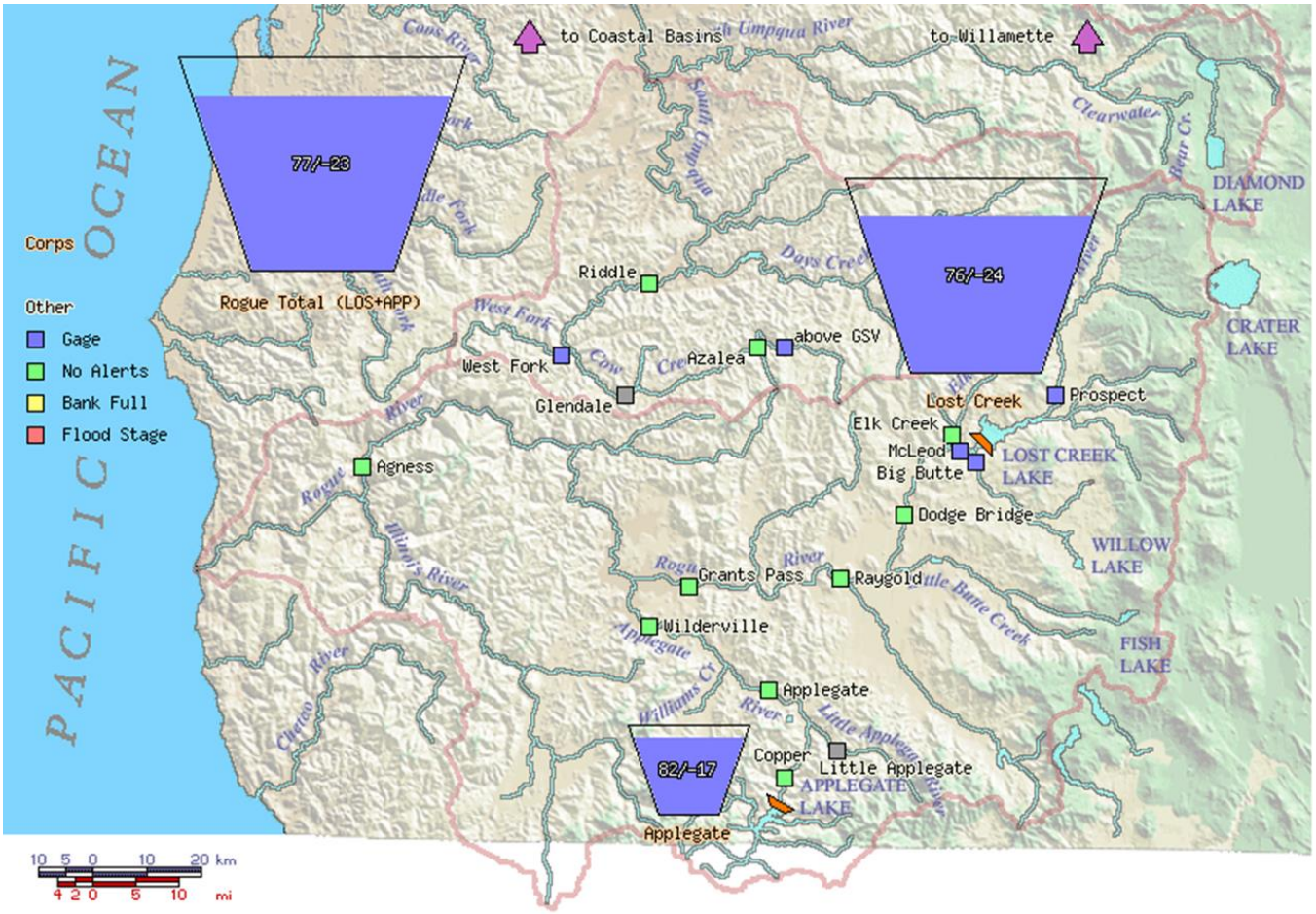
Website: http://www.usbr.gov/pn/hydromet/roguetea.html

Reservoir	Percent Full on July 4, 2016
Agate Reservoir	75 percent
Applegate Reservoir	82 percent
Emigrant Lake	77 percent
Fish Lake	65 percent
Fourmile Lake	40 percent
Howard Prairie	62 percent
Hyatt Reservoir	64 percent
Lost Creek Reservoir	76 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 July 5, 2016
Upper Klamath Lake	Not reported
Clear Lake	24 percent
Gerber Reservoir	35 percent