Oregon Water Conditions Report October 3, 2016



Precipitation was below normal in the central part of the state during the month of September. The northwest corner, north central and southeast parts of the state received above normal amounts of precipitation. Climate models continue to indicate 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 October. Temperatures in September were below average in many areas throughout Oregon and 1 to 4 degrees above normal in eastern Oregon and 1 to 3 degrees above normal in parts of the extreme north and mid-coastal parts of the state. 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.

The Drought Monitor shows 100 percent of the state abnormally dry. As of September 27, 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.

Streamflows continue to fare better overall in 2016 than in 2015. Statewide average streamflows for September were at 62 percent of normal. This was better than 54 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 cooler temperatures and light precipitation. The Malheur Lake, Hood, and Klamath Basins, all between 79 and 88 percent of normal, are faring the best. The most stressed basins are the Umatilla, John Day, North Coast and South Coast Basins.

Statewide reservoir storage data for September should be available in the next few days. Please refer to the teacup diagrams for specific project information.

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. Lack of precipitation in August and a return to average temperatures in August and September, most areas in the state have returned to 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 <u>ODF's fire restrictions web page</u> for more information.

Data & Products:

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Precipitation – Percent of Average

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



Last 14 days



Website: 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



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

U.S. Drought Monitor Oregon

September 27, 2016 (Released Thursday, Sep. 29, 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	50.59	12.30	0.00	0.00
Last Week 920/2016	0.00	100.00	50.59	12.30	0.00	0.00
3 Month s Ago 628/2016	0.00	100.00	44.55	0.00	0.00	0.00
Start of Calendar Year 12292015	14.52	85.48	80.45	65.33	39.55	0.00
Start of Water Year 929/2015	0.00	100.00	100.00	100.00	67.29	0.00
One Year Ago 929/2015	0.00	100.00	100.00	100.00	67.29	0.00

Intensity:



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: Chris Fenimore NCEI/NESDIS/NOAA



http://droughtmonitor.unl.edu/

Note: No change from September 13, 2016 report

September 6, 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 - 20161002

USDA Federal Drought Designations

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



2016 Secretarial Drought Designations - All Drought



Statewide Streamflow Conditions

Regional Streamflow Conditions



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
Willamette Project Total:	26 percent

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



Reservoir Storage – Tualatin River Basin

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

Reservoir	Percent Full October 2, 2016
Scoggins Dam/Henry Hagg L.	36 percent

10/02/2016



Reservoir Storage – Deschutes Basin

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

Reservoir	Percent Full October 2, 2016
Crane Prairie Reservoir	64 percent
Crescent Lake	54 percent
Haystack Reservoir	80 percent
Ochoco Reservoir	45 percent
Prineville Reservoir	48 percent
Wickiup Reservoir	10 percent



Reservoir Storage – Umatilla River Basin

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

Reservoir	Percent Full Ocober 2, 2016
Cold Springs Reservoir	5 percent
McKay Reservoir	25 percent

10/02/2016



Reservoir Storage – Southeastern Oregon

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

Reservoir	Percent Full October 2, 2016
Beulah Reservoir	4 percent
Bully Creek Reservoir	15 percent
Owyhee Reservoir	23 percent
Phillips Reservoir	4 percent
Thief Valley Reservoir	0 percent
Unity Reservoir	9 percent
Warm Springs Reservoir	0 percent



Reservoir Storage – Rogue River Basin

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

Reservoir	Percent Full October 2, 2016
Agate Reservoir	14 percent
Applegate Reservoir	20 percent
Emigrant Lake	19 percent
Fish Lake	17 percent
Fourmile Lake	10 percent
Howard Prairie	47 percent
Hyatt Reservoir	40 percent
Lost Creek Reservoir	41 percent

10/02/2016 LIIIIe Bulle Creek River Eagle Point Rogue Fourmile Lake 1527/15600 10% Full **Big Butte** White City SFLO 9 cfs BCMO 101 cfs FSH0 52 cfs ANTO 0 cfs CACO 0 cfs Agate 650/4670 14% Full GILO 19 cfs Fish Lake 1300/7836 17% Full BJBO 35 cfs ĥ ł MFDO 63 cfs Medford SLBO 0 cfs Phoenix DICO 0 cfs BCTO 19 cfs Talent Howard Prairie 28492/60600 47% Full BASO 21 cfs BCA0 34 cfs Rogue 7 Day Ashland EMI 25 cfs Hyatt 6545/16200 40% Full GSP0 35 cfs EGSO 0 cfs Emigrant 7281/39000 19% Full

Reservoir Storage – Rogue River Basin (continued)

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



Reservoir Storage – Klamath River Basin

Reservoir	Percent Full October 3, 2016
Upper Klamath Lake	23 percent
Clear Lake	14 percent
Gerber Reservoir	12 percent

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

