Oregon Water Conditions Report December 11, 2017



Statewide snowpack has receded to 47 percent of normal statewide due to lack of storms impacting the region. Measureable snow water equivalent (SWE) remains negligible statewide, with amounts generally under 8 inches of water, and most snow at higher elevations. Any precipitation that has fallen has mainly been in the form of rain.

Oregon statewide precipitation at NRCS SNOTEL sites is 105 percent of normal, down from 135 percent of normal two weeks ago. At this time, the regions with the lowest precipitation are located in east central Oregon (John Day basin at 94 percent, and Harney basin at 92 percent). Statewide mountain precipitation over the last two weeks has been well under 50% of normal.

Temperatures in the <u>past two weeks</u> have been warmer than normal. With the exception of the past 3-4 days, most of Oregon has seen a trend of warmer than normal temperatures, especially in eastern and central Oregon. Over the next <u>8 to 14 days</u>, the NOAA Climate Prediction Center is forecasting an increased probability of above normal temperatures along with below normal precipitation across the state.

The NOAA Climate Prediction Center's most recent <u>three month outlook</u> indicates an increased likelihood of below normal temperatures in the northwest half of the state with equal chances of above or below normal temperatures for the rest of the state. The precipitation outlook is for an increased likelihood above normal precipitation in the northeast half of the state with equal chances of above or below normal precipitation for the rest of the state. The next outlook will be issued on December 21, 2017.

La Niña conditions are predicted to continue (~65-75 percent chance) at least through the Northern Hemisphere winter 2017-18. The Climate Prediction Center has recently issued a La Niña Watch for the upcoming 2017-18 fall-winter season. The diagnostic discussion issued on November 9 provides more detail. For the latest discussion on the coming winter outlook, refer to the ENSO blog on the climate.gov website. The situation continues to be monitored and any changes will be made to the status by the Climate Prediction Center. The next ENSO Diagnostics Discussion is scheduled for December 14, 2017.

Statewide streamflows for November ended up at almost 130 percent of normal. This is down from 155 percent seen for the month of October. Regionally for November, streamflow conditions were 140 percent west of the Cascades and 120 percent east of the Cascades. With the recent drier than normal conditions, streamflows are now trending downward. Statewide, streamflows for early December are just over 80 percent of normal. Flows west of the Cascades are below 40 percent of normal while east of the Cascades flows are at 110 percent of normal.

Most of the state's water supply reservoirs are at above normal levels for this time

of year. <u>Willamette</u> and <u>Rogue</u> project reservoirs remain on track this fall. <u>Central</u> <u>Oregon</u> reservoirs are between 43 and 88 percent of capacity. <u>Eastern Oregon</u> reservoirs continue to hover between 30 and 63 percent of capacity. Most if not all water supply reservoir operators are now preparing for the coming storage season. For the most recent near real-time, site-specific reservoir conditions (teacup diagrams) visit the <u>USBR</u> or <u>USACE</u> websites.

The <u>US Drought Monitor</u> continues to indicate that Oregon is no longer listed in any drought category.

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Compared to this time last year -





Precipitation (mountain) - Percent of Normal

Compared to this time last year -



Website: http://www.wrcc.dri.edu/wwdt/index.php?folder=mdn1

PRISM > Temperature Anomaly 1 Month > Oregon



Oregon - Mean Temperature

Website: http://www.wrcc.dri.edu/wwdt/index.php?folder=pon1

PRISM > Precipitation Anomaly 1 Month > Oregon



December – February Follow link for the latest information.

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



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 - 20171209

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

U.S. Drought Monitor Oregon

December 5, 2017

(Released Thursday, Dec. 7, 2017) Valid 7 a.m. EST



Drought Conditions (Percent Area)							
	None	D0-D4	D1-D4	D2-D4	D3-D4	D4	
Current	100.00	0.00	0.00	0.00	0.00	0.00	
Last Week 11-28-2017	100.00	0.00	0.00	0.00	0.00	0.00	
3 Month s Ago 09-05-2017	22.33	77.67	13.50	0.00	0.00	0.00	
Start of Calend ar Year 01-03-2017	65.31	34.69	5.29	0.00	0.00	0.00	
Start of Water Year 09-26-2017	39.23	60.77	28.57	0.00	0.00	0.00	
One Year Ago 12-06-2016	56.44	43.56	23.22	2.63	0.00	0.00	

Intensity:

D0 Abnormally Dry D2 Severe Drought



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

Author: David Simeral

Western Regional Climate Center



http://droughtmonitor.unl.edu/

U.S. Drought Monitor Oregon

December 6, 2016 (Released Thursday, Dec. 8, 2016) Valid 7 a.m. EST



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.

<u>Author:</u> Anthony Artusa NOAA/NWS/NCEP/CPC <u>USDA</u>

http://droughtmonitor.unl.edu/

Compared to this time last year:





Streamflow Conditions – Rogue



Streamflow Conditions – Goose & Summer Lake



Streamflow Conditions – Hood



Statewide Storage Conditions

