

Water Conditions Report May 10, 2016

Summary:

The NRCS released its monthly <u>water supply outlook report</u> last week. Record breaking temperatures during April took their toll on the mountain snowpack. Across the state, snowpack decreased significantly and most regions are well below normal as of May 1st. Over twice the normal snowmelt rates occurred in many locations.

Because of the unusual April snowmelt, many reservoirs have filled significantly. However, streamflow forecasts are now predicting below normal streamflow volumes for the remaining months of the water supply season.

Statewide precipitation since the beginning of the water year is 109 percent of average, however, April saw below average amounts for the month. The lowest amount of precipitation fell in the Umatilla, Walla Walla and Willow basins at 39 percent of average and the most fell in the Owyhee and Malheur basins at 94 percent of average.

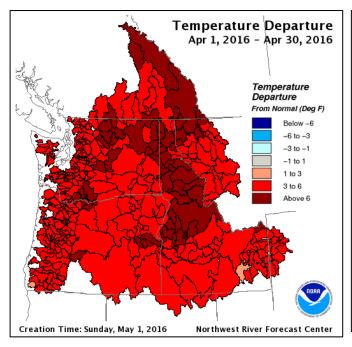
The U.S. Drought Monitor released last Thursday shows more than 65 percent of the state as abnormally dry, encompassing central and eastern Oregon. Areas designated as moderate or severe drought remained unchanged from our April 21 report.

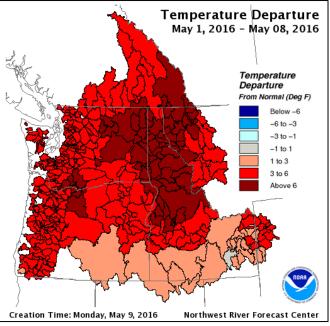
Currently, NOAA's Climate Prediction Center (CPC) is calling for above normal temperatures for the next three months and above normal amounts of precipitation for southern Oregon.

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SNOTEL Current Snow Water Equivalent (SWE) % of Normal	
SNOTEL Water Year (Oct 1) to Date Precipitation % of Normal	
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Temperature Departure (April 1-30 and May 1-8, 2016)

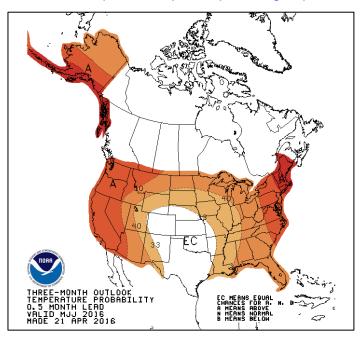
Website: http://www.nwrfc.noaa.gov/water_supply/wy_summary/wy_summary.php?tab=2

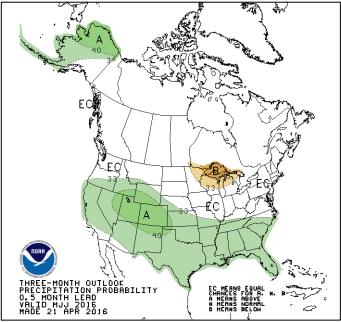




Three Month Outlook (May-June-July 2016)

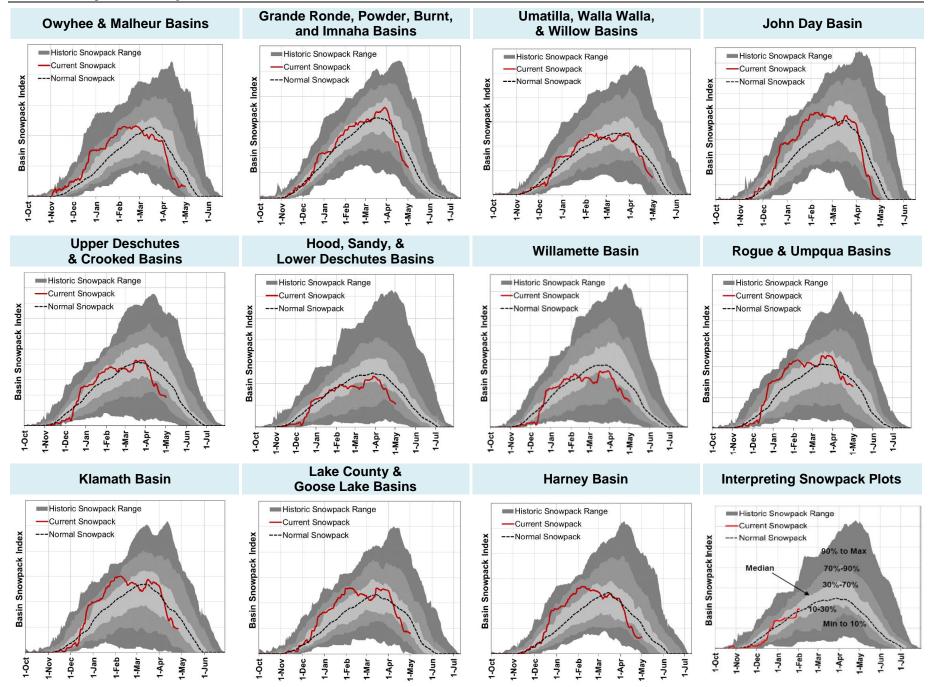
Website: http://www.cpc.ncep.noaa.gov/products/predictions/long_range/seasonal.php?lead=1





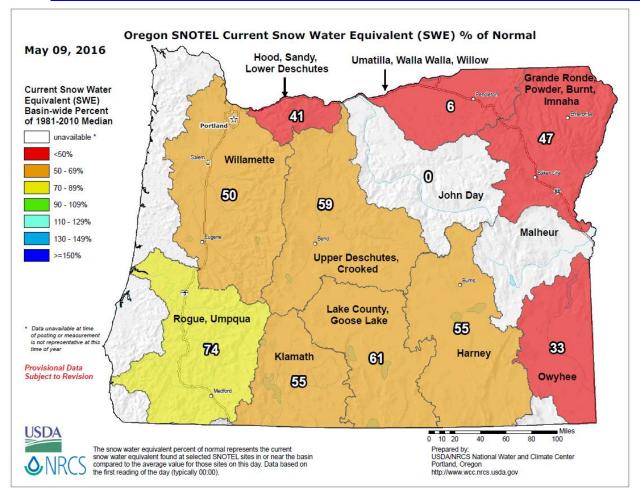
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NRCS May 1 Snowpack Plots



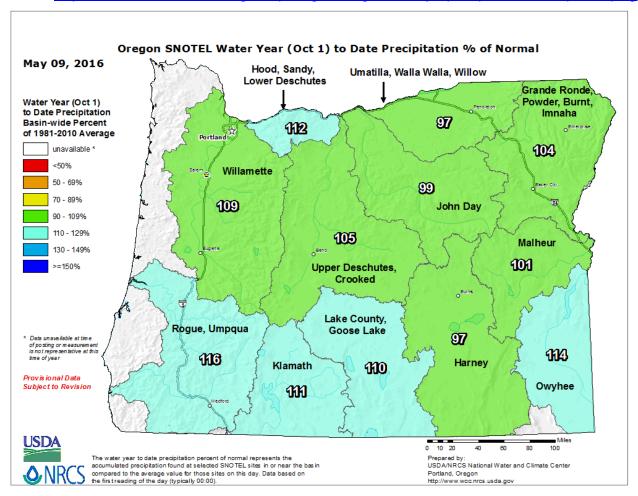
SNOTEL Current Snow Water Equivalent (SWE) % of Normal

Website: http://www.wcc.nrcs.usda.gov/ftpref/data/water/wcs/gis/maps/or_swepctnormal_update.pdf



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

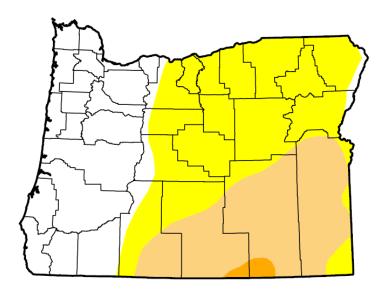
Website: http://www.wcc.nrcs.usda.gov/ftpref/gis/images/or_wytdprecpctnormal_update.png



U.S. Drought Monitor for Oregon (May 3, 2016)

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

U.S. Drought Monitor Oregon



May 3, 2016 (Released Thursday, May. 5, 2016) Valid 8 a.m. EDT

Drought Conditions (Percent Area)

		D0 D4	D4 D4	50.54	50.54	
	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	34.27	65.73	26.12	1.00	0.00	0.00
Last Week 4/26/2016	47.03	52.97	26.12	1.00	0.00	0.00
3 Months Ago 2/2/2016	14.58	85.42	74.56	40.97	4.38	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 5/5/2015	0.11	99.89	86.76	67.38	34.09	0.00

Intensity:



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

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National Drought Mitigation Center



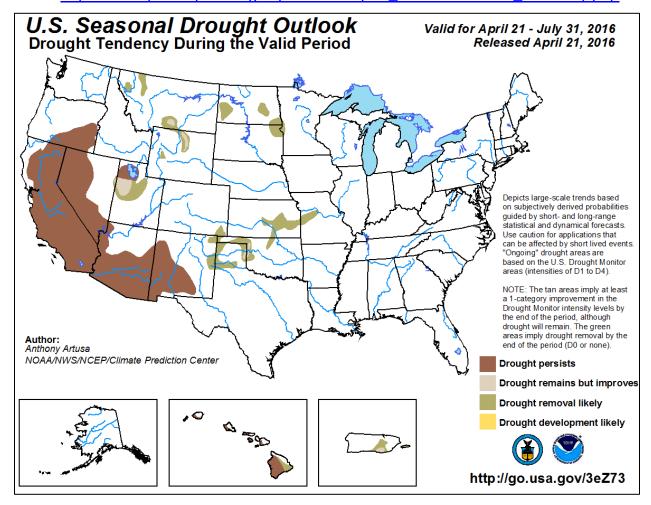






http://droughtmonitor.unl.edu/

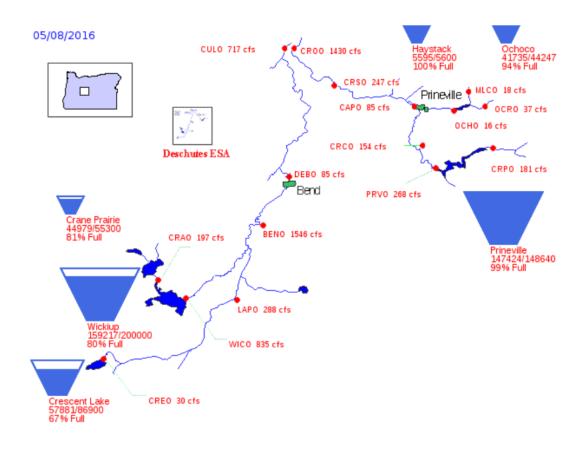
Website: http://www.cpc.ncep.noaa.gov/products/expert_assessment/sdo_summary.php



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

Reservoir Percent on May 8,	
Crescent Lake	67 percent
Wickiup Reservoir	80 percent
Crane Prairie Reservoir	81 percent
Prineville Reservoir	99 percent
Ochoco Reservoir	94 percent
Haystack Reservoir	100 percent

US Bureau of Reclamation, Pacific Northwest Region Major Storage Reservoirs in the Deschutes River Basin

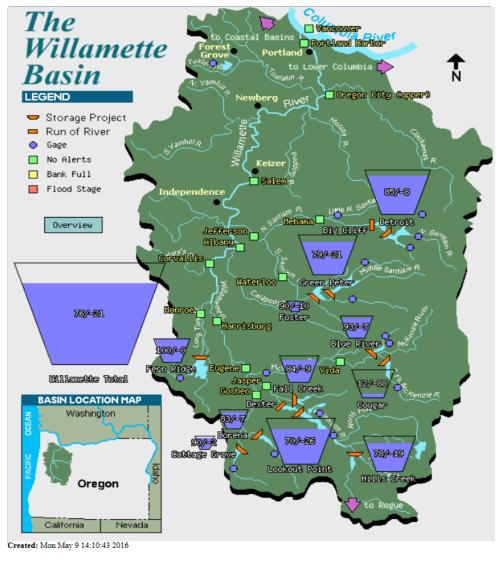


PROVISIONAL DATA - Subject to Change

Reservoir Storage – Willamette Valley Project

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

Reservoir	Percent Full on May 9, 2016
Blue River Reservoir	93 percent
Cottage Grove Reservoir	90 percent
Cougar Reservoir	12 percent
Detroit Reservoir	85 percent
Dorena Reservoir	83 percent
Fall Creek Reservoir	84 percent
Fern Ridge Reservoir	100 percent
Foster Reservoir	90 percent
Green Peter Reservoir	79 percent
Hills Creek Reservoir	78 percent
Lookout Point Reservoir	70 percent
Willamette Project Total	76 percent



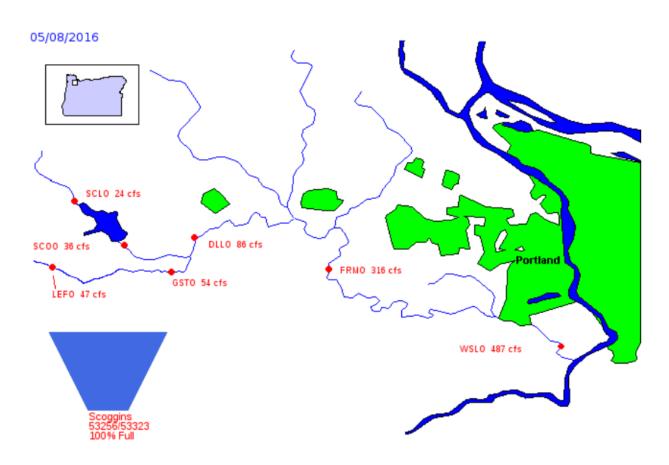
Note: The Corps of Engineers has lowered Lookout Point Reservoir to allow for urgent debris removal and repairs in Cougar Dam's temperature control structure. Refill of this reservoir began on April 13. Link to press release.

Reservoir Storage - Tualatin River Basin

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

Reservoir	Percent Full on May 8 2016
Scoggins Dam/Henry Hagg L.	100 percent

Bureau of Reclamation, Pacific Northwest Region Tualatin River Basin Storage and Flow Diagram



PROVISIONAL DATA - SUBJECT TO CHANGE!

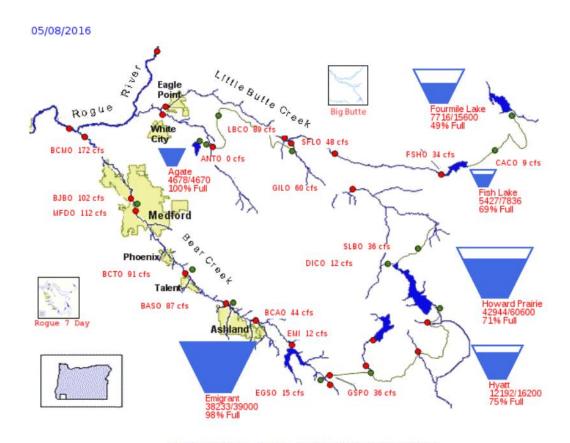
Reservoir Storage - Rogue River Basin

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

Website: http://www.nwd-wc.usace.army.mil/nwp/teacup/rogue/ (Applegate & Lost Creek)

Reservoir	Percent Full on May 8, 2016
Applegate Reservoir	99 percent
Emigrant Lake	98 percent
Fish Lake	69 percent
Fourmile Lake	49 percent
Howard Prairie	71 percent
Hyatt Reservoir	75 percent
Lost Creek Reservoir	100 percent

US Bureau of Reclamation, Pacific Northwest Region Bear Creek and Little Butte Creek Basins



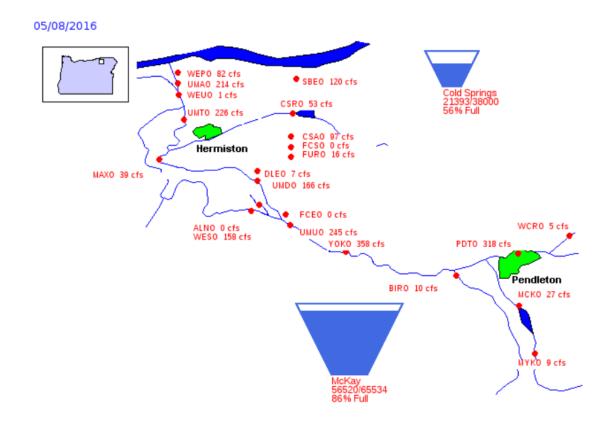
PROVISIONAL DATA - SUBJECT TO CHANGE!

Reservoir Storage – Umatilla River Basin

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

Reservoir	Percent Full on May 8, 2016
McKay Reservoir	86 percent
Cold Springs Reservoir	56 percent

Bureau of Reclamation, Pacific Northwest Region Umatilla River Basin Storage and Flow Diagram



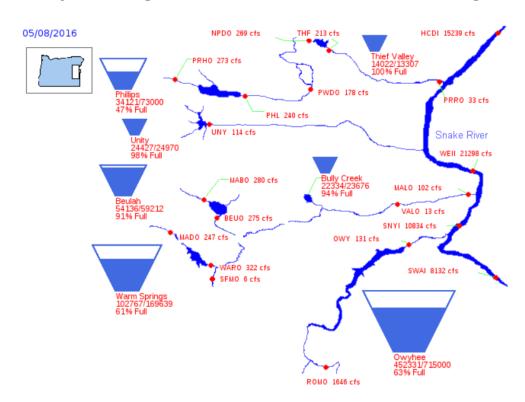
PROVISIONAL DATA - SUBJECT TO CHANGE!

Reservoir Storage - Southeastern Oregon

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

Reservoir	Percent Full on May 8, 2016
Phillips Reservoir	47 percent
Thief Valley Reservoir	100 percent
Unity Reservoir	98 percent
Beulah Reservoir	91 percent
Bully Creek Reservoir	94 percent
Warm Springs Reservoir	61 percent
Owyhee Reservoir	63 percent

US Bureau of Reclamation, Pacific Northwest Region Major Storage Reservoirs in Southeastern Oregon



NOTE: This graphic does not depict 400,000 acre-feet of water that is maintained in Owyhee reservoir.

PROVISIONAL DATA - SUBJECT TO CHANGE!