



Water Conditions Report

April 21, 2016

Summary:

Despite the cold weather in the first two weeks of March, the last two weeks were warm and dry throughout Oregon—which has led to the onset of early spring snowmelt in most locations across the state. April temperatures thus far have also been well above normal.

Where applicable, streamflows are responding accordingly to the increased runoff from snowmelt. The exception being coastal and rainfall runoff dominant streams, which are flowing at lower than normal rates.

Reservoir storage across the state benefitted from the wet month of March. Many reservoirs that were well below normal as of March 1st saw significant improvements during the month.

The NRCS Water Supply Outlook [report](#) for April describes near normal to above normal streamflow forecast volumes for the summer water supply season. The highest forecasts are for the Rogue and Umpqua River Basins. However, if extended warm and dry conditions continue, summer streamflow projections could decrease due to early snowmelt runoff.

The temperature outlook through June favors above-normal temperatures across the entire Pacific Northwest. The precipitation outlook for this same time period for the northwest corner of Oregon is for below normal precipitation. The outlook for the rest of the state is for equal chances of above or below normal precipitation.

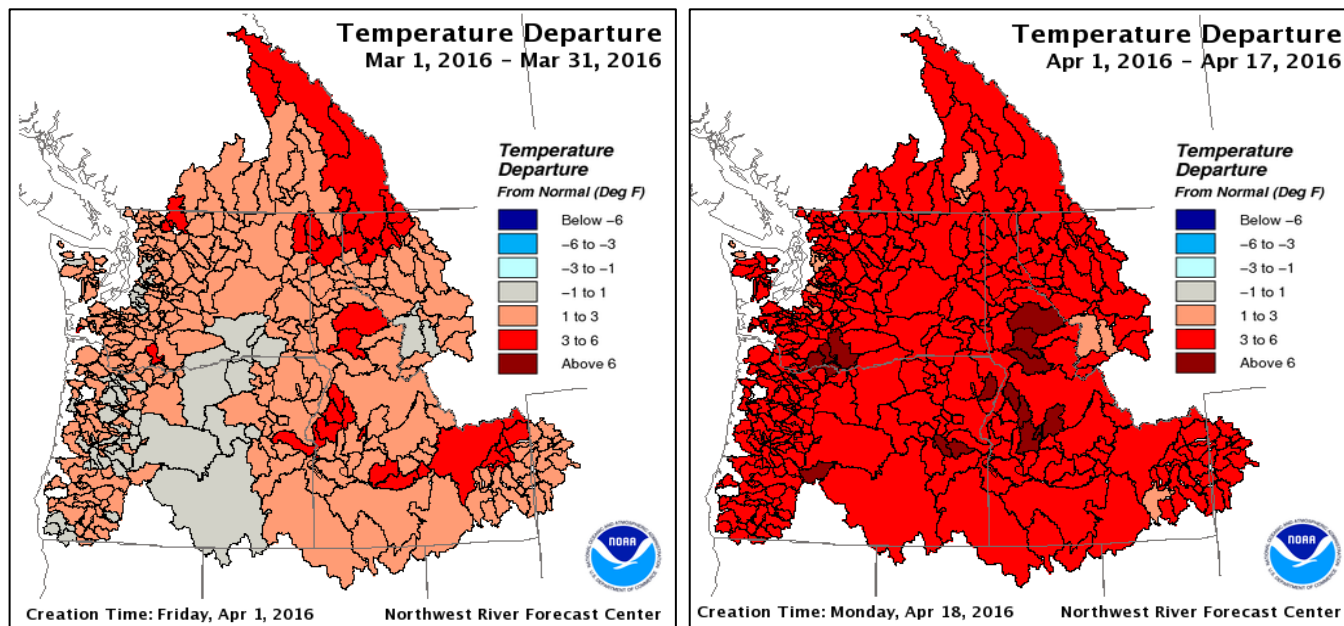
Data & Products:

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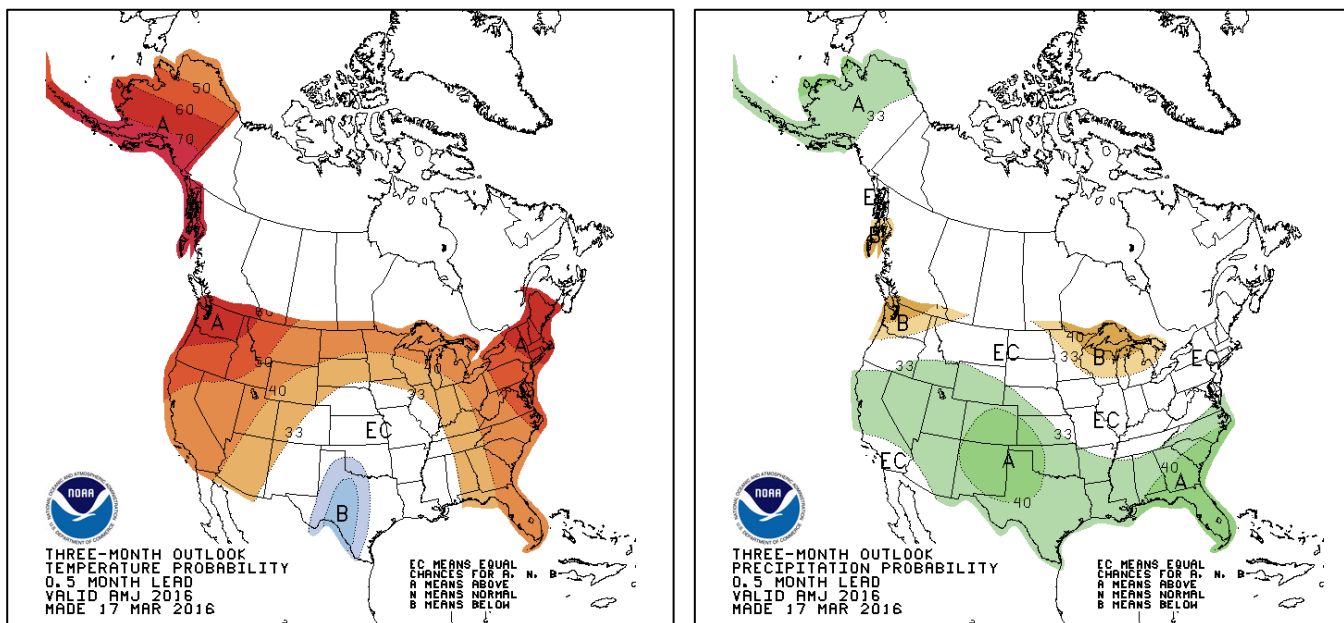
Temperature Departure (March & April 2016)

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



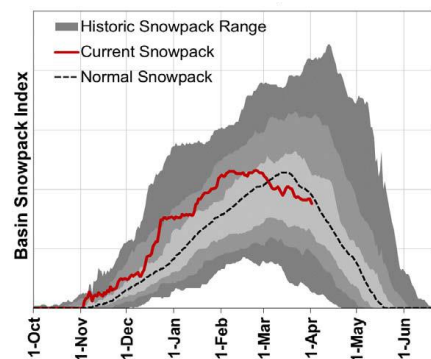
Three Month Outlook (April-May-June 2016)

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

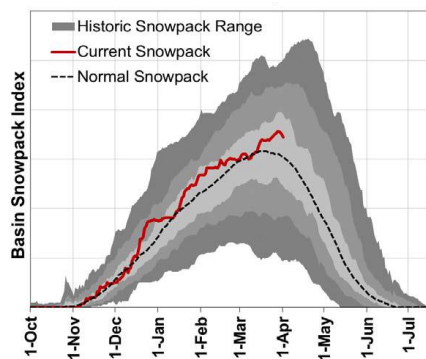


NRCS April 1 Snowpack Plots

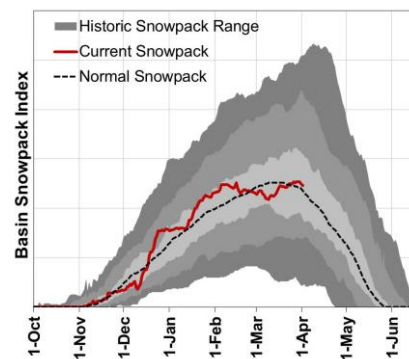
Owyhee & Malheur Basins



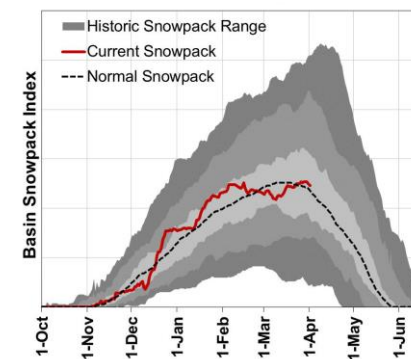
Grande Ronde, Powder, Burnt, and Imnaha Basins



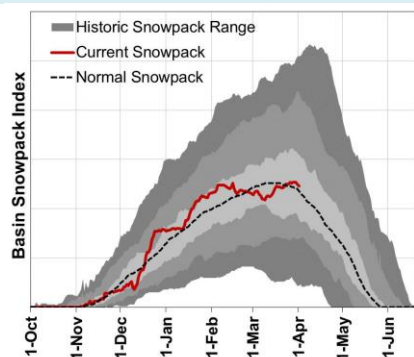
Umatilla, Walla Walla, & Willow Basins



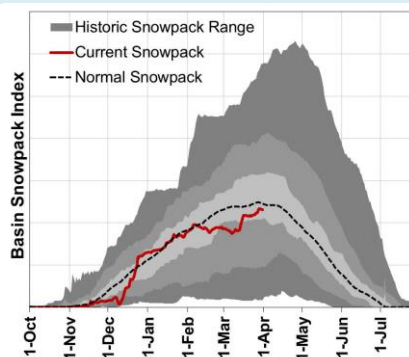
John Day Basin



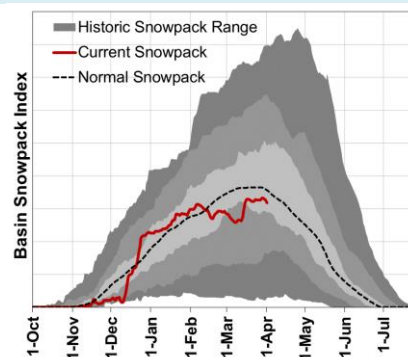
Upper Deschutes & Crooked Basins



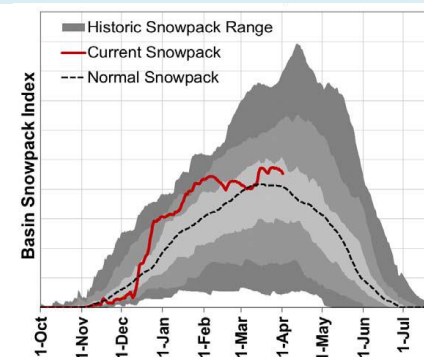
Hood, Sandy, & Lower Deschutes Basins



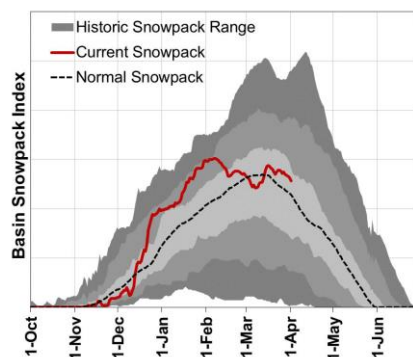
Willamette Basin



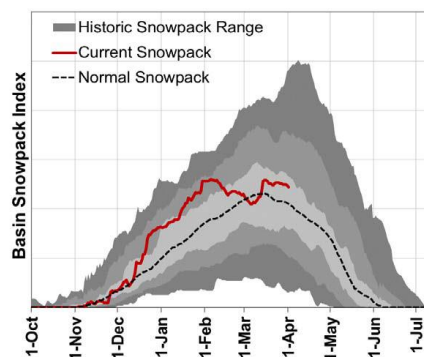
Rogue & Umpqua Basins



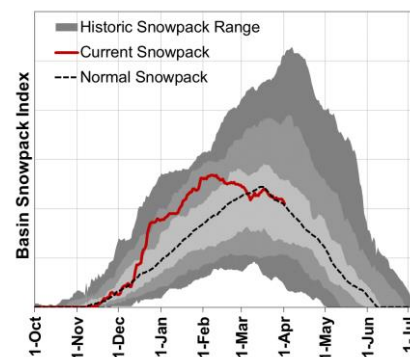
Klamath Basin



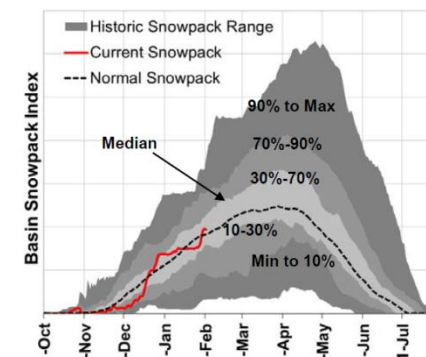
Lake County & Goose Lake Basins



Harney Basin

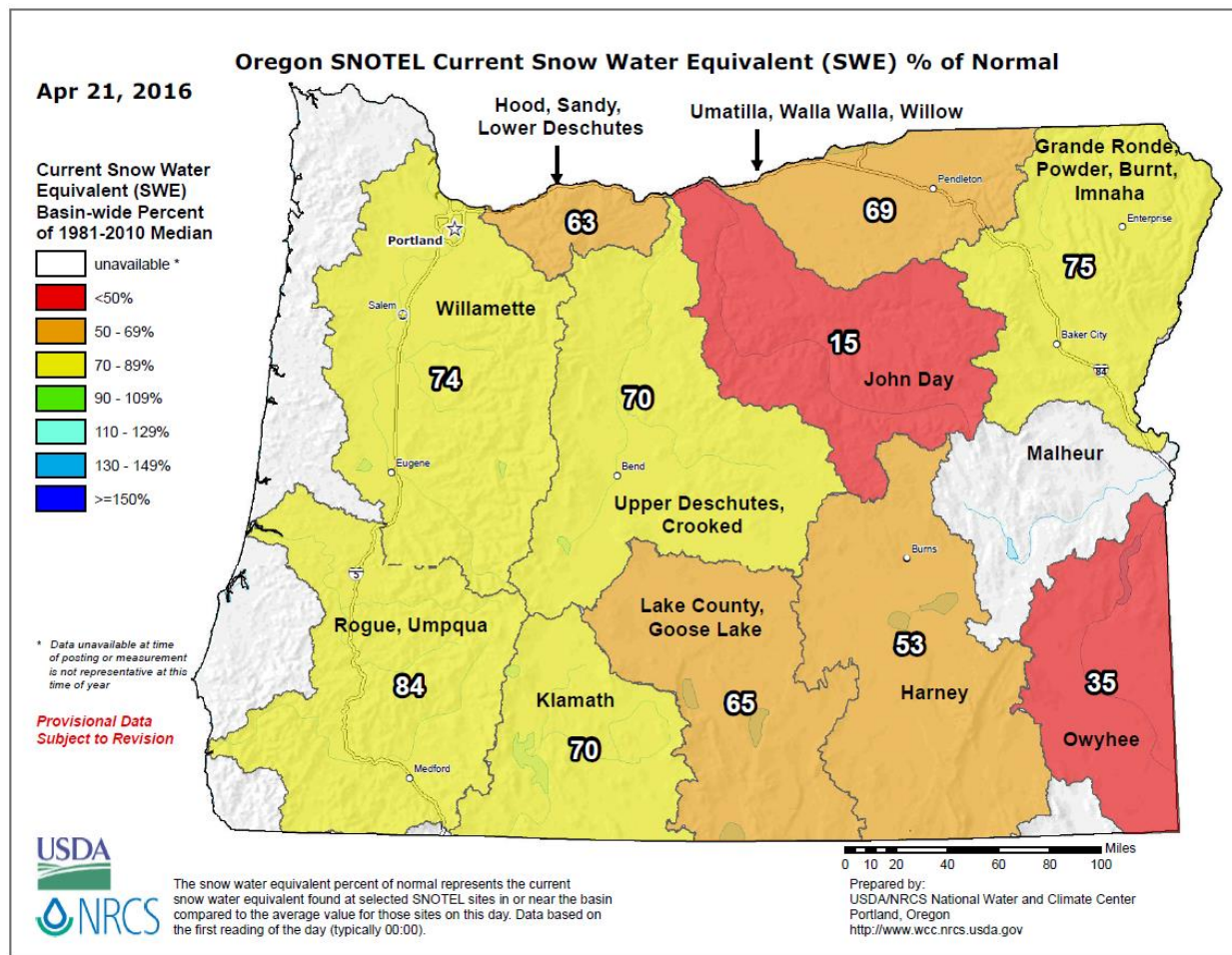


Interpreting Snowpack Plots

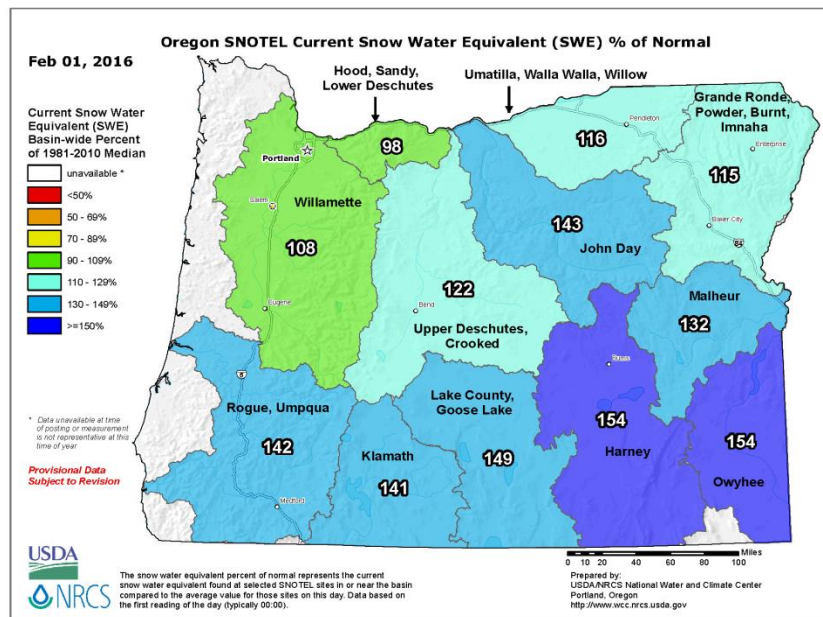
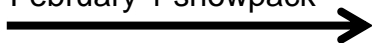


SNOTEL Current Snow Water Equivalent (SWE) % of Normal

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

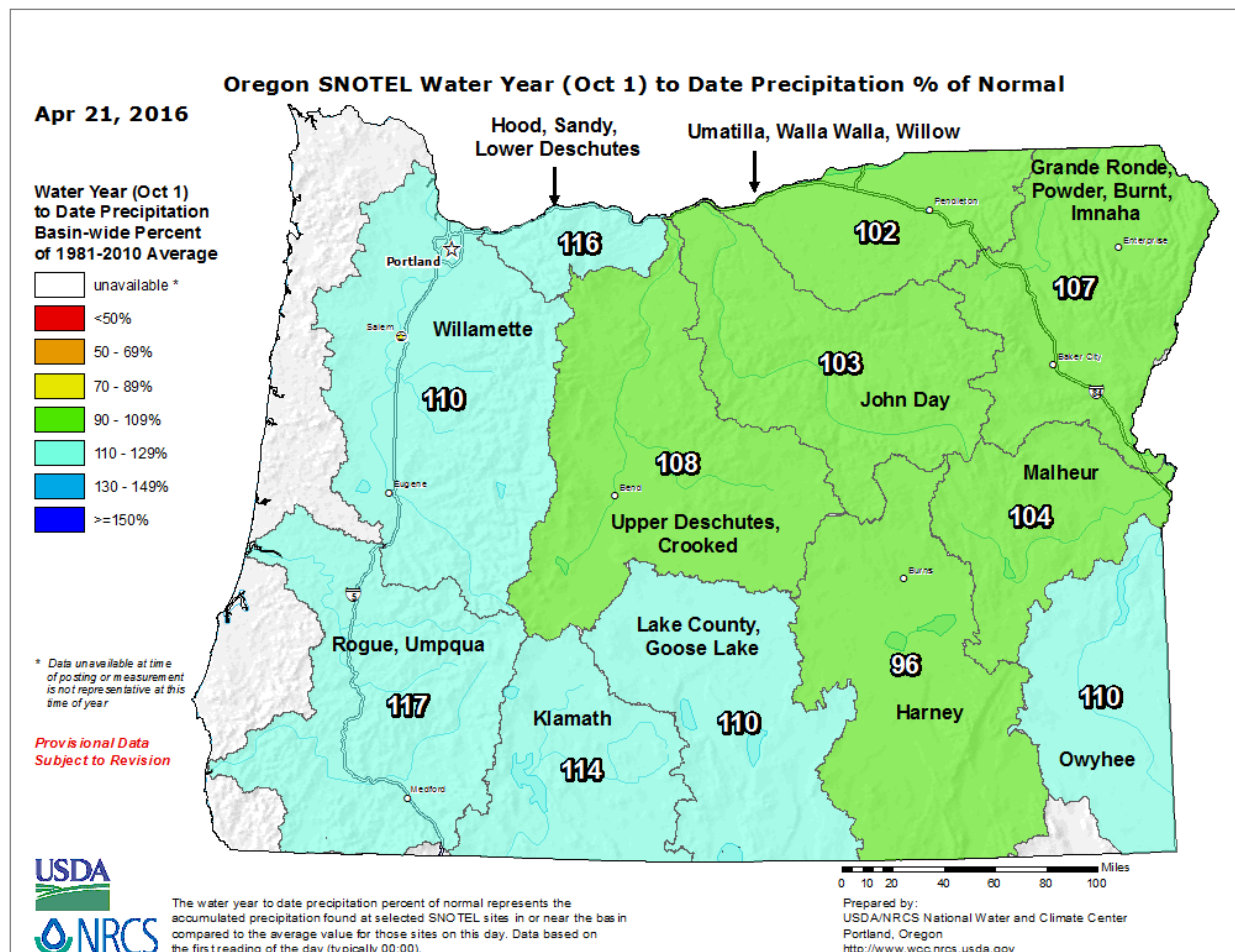


Compared to
 February 1 snowpack



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

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

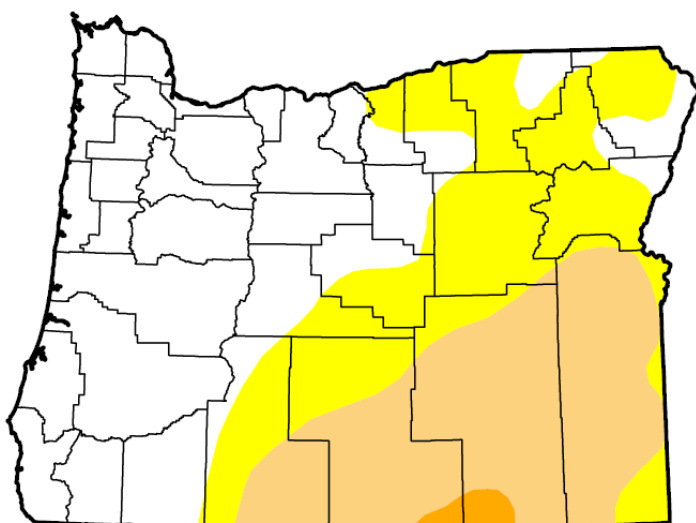


U.S. Drought Monitor for Oregon (April 19, 2016)

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

U.S. Drought Monitor Oregon

April 19, 2016
(Released Thursday, Apr. 21, 2016)
Valid 8 a.m. EDT



Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	47.03	52.97	26.12	1.00	0.00	0.00
Last Week 4/12/2016	45.95	54.05	29.87	1.00	0.00	0.00
3 Months Ago 1/19/2016	14.60	85.40	73.81	40.94	4.47	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 4/21/2015	14.44	85.56	82.30	49.90	33.77	0.00

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.

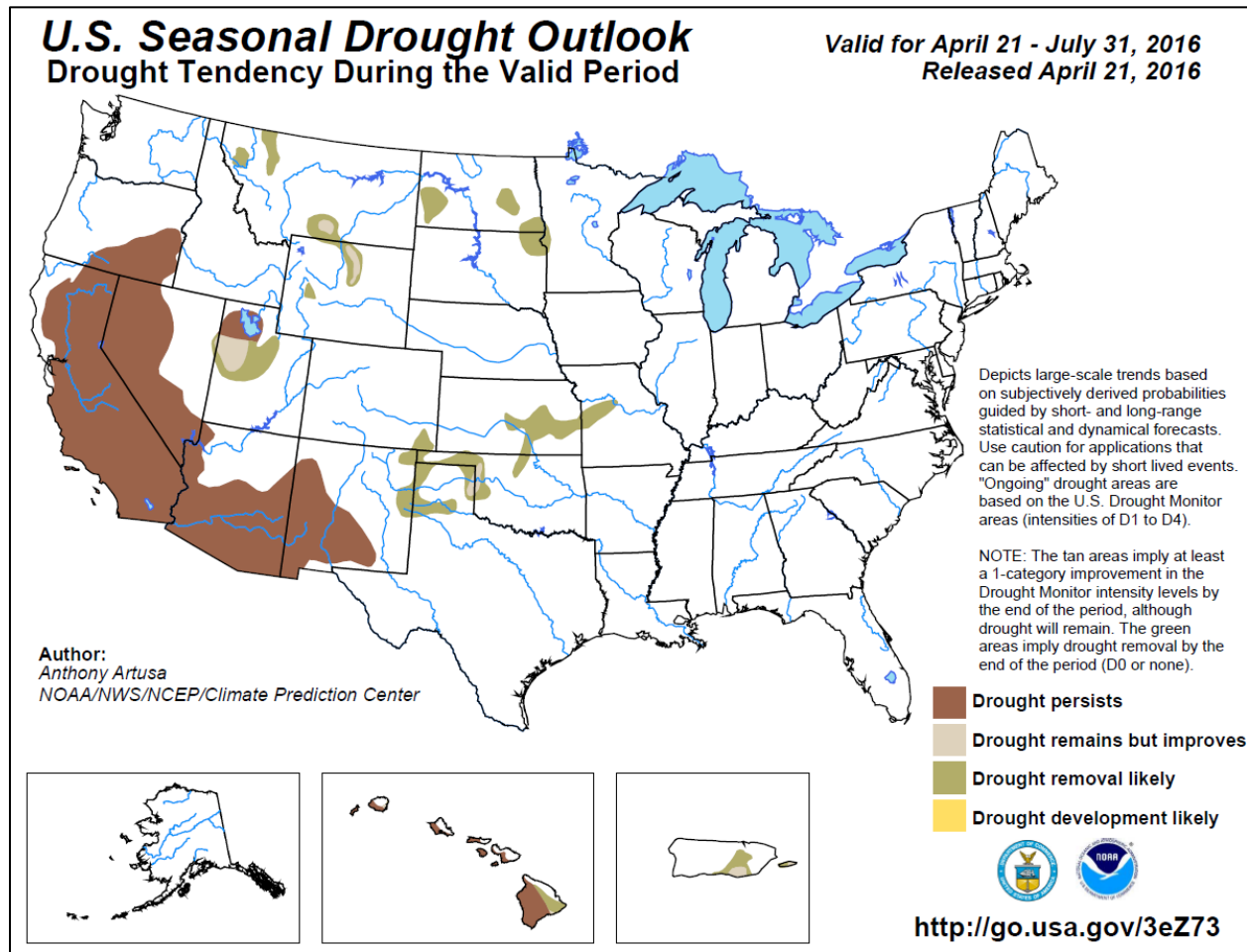
Author:
Richard Tinker
CPC/NOAA/NWS/NCEP



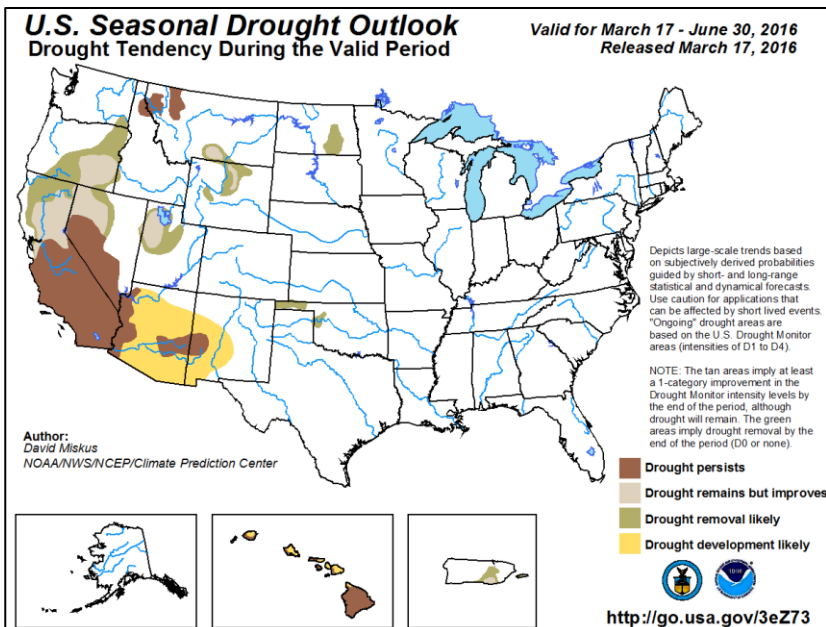
<http://droughtmonitor.unl.edu/>

U.S. Seasonal Drought Outlook

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



Compared to March 17
Drought Outlook

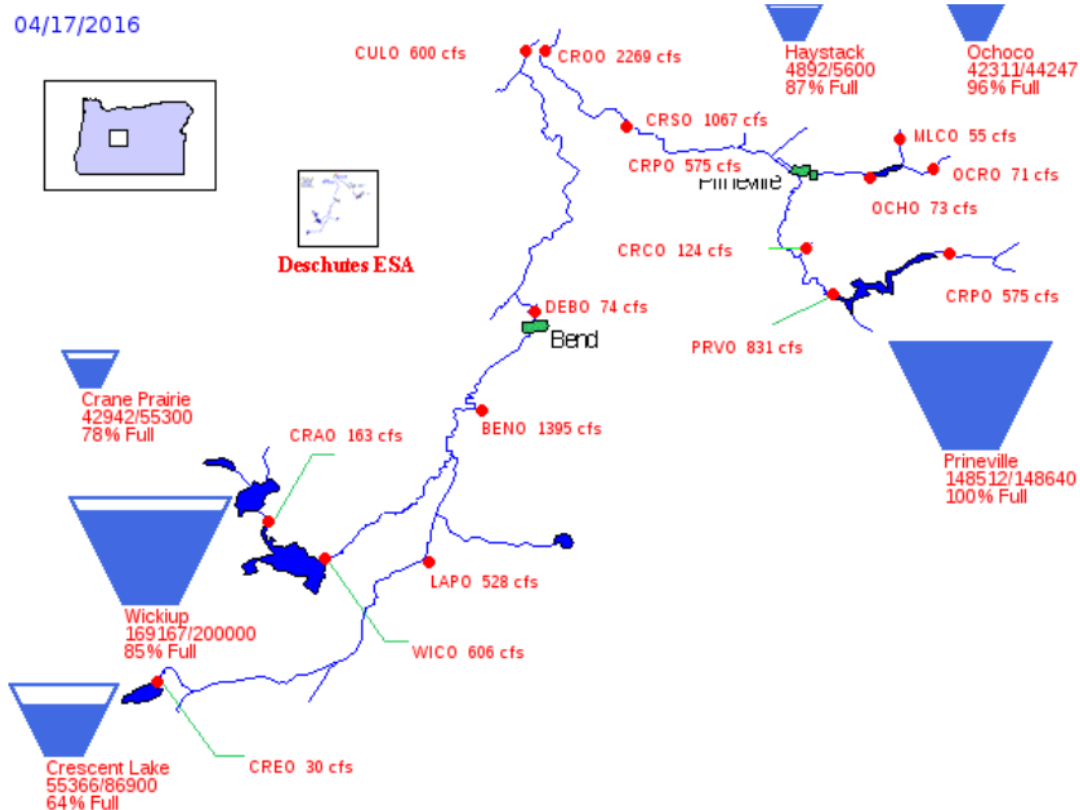


Reservoir Storage – Deschutes Basin

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

Reservoir	Percent Full on April 17, 2016
Crescent Lake	78 percent
Wickiup Reservoir	85 percent
Crane Prairie Reservoir	64 percent
Prineville Reservoir	100 percent
Ochoco Reservoir	96 percent
Haystack Reservoir	87 percent

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



PROVISIONAL DATA - Subject to Change

Reservoir	Percent Full on April 18, 2016
Blue River Reservoir	86 percent
Cottage Grove Reservoir	75 percent
Cougar Reservoir	0 percent
Detroit Reservoir	79 percent
Dorena Reservoir	69 percent
Fall Creek Reservoir	74 percent
Fern Ridge Reservoir	96 percent
Foster Reservoir	0 percent
Green Peter Reservoir	83 percent
Hills Creek Reservoir	79 percent
Lookout Point Reservoir	72 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.](#)

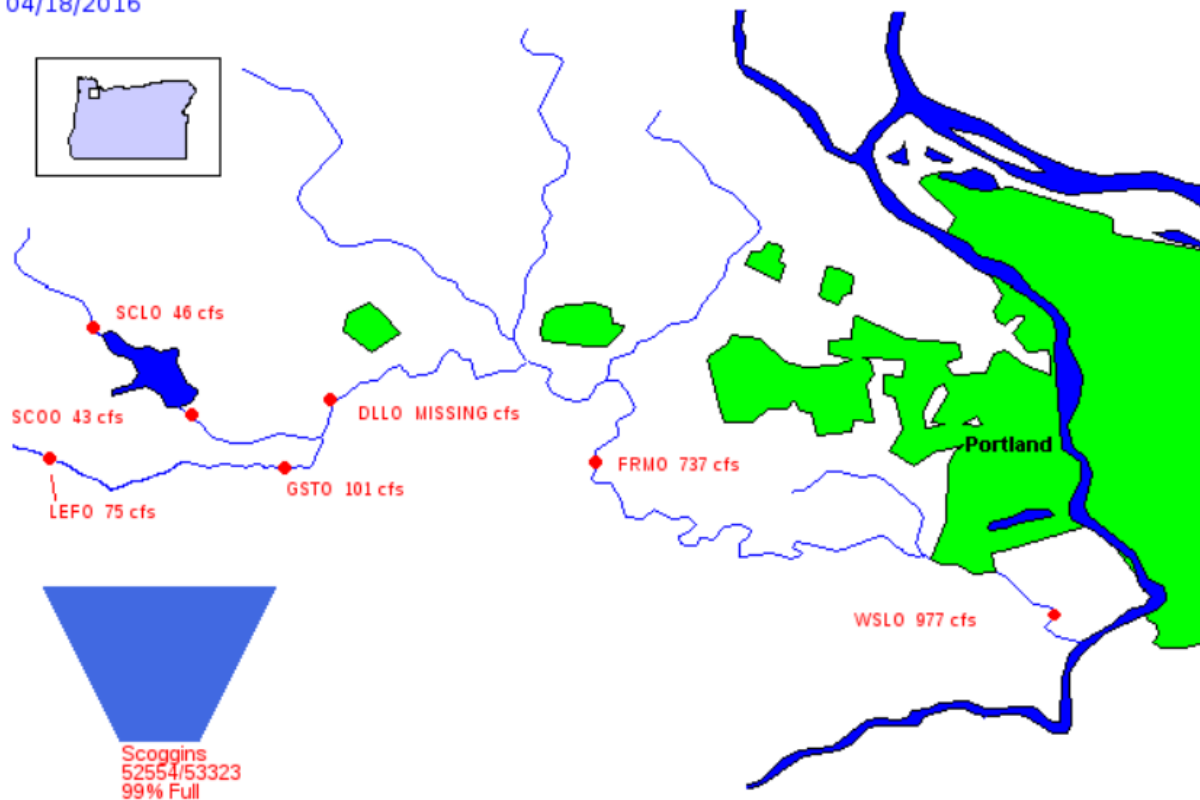
Foster Reservoir is also on a delay refill schedule to accommodate fish passage research. [Link to press release.](#)

Reservoir Storage – Tualatin River Basin

Website: <http://www.usbr.gov/pn/hydromet/tuatea.html> (Provisional Data)

Reservoir	Percent Full on April 18, 2016
Scoggins Dam/Henry Hagg L.	99 percent

04/18/2016



PROVISIONAL DATA - SUBJECT TO CHANGE!

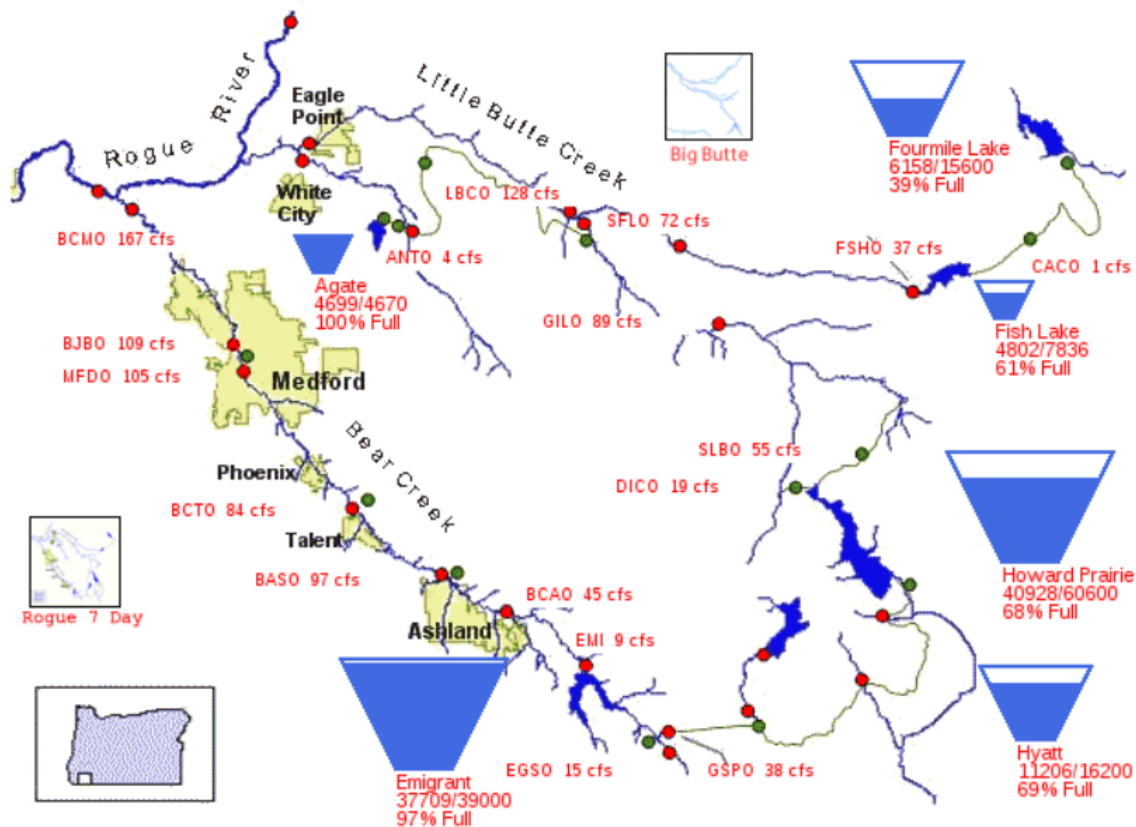
Reservoir Storage – Rogue River Basin

Website: <http://www.usbr.gov/pn/hydromet/roguetea.html> (Provisional Data)

Reservoir	Percent Full on April 18, 2016
Applegate Reservoir	88 percent
Emigrant Lake	97 percent
Fish Lake	61 percent
Fourmile Lake	39 percent
Howard Prairie	68 percent
Hyatt Reservoir	69 percent
Lost Creek Reservoir	96 percent

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

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PROVISIONAL DATA - SUBJECT TO CHANGE!

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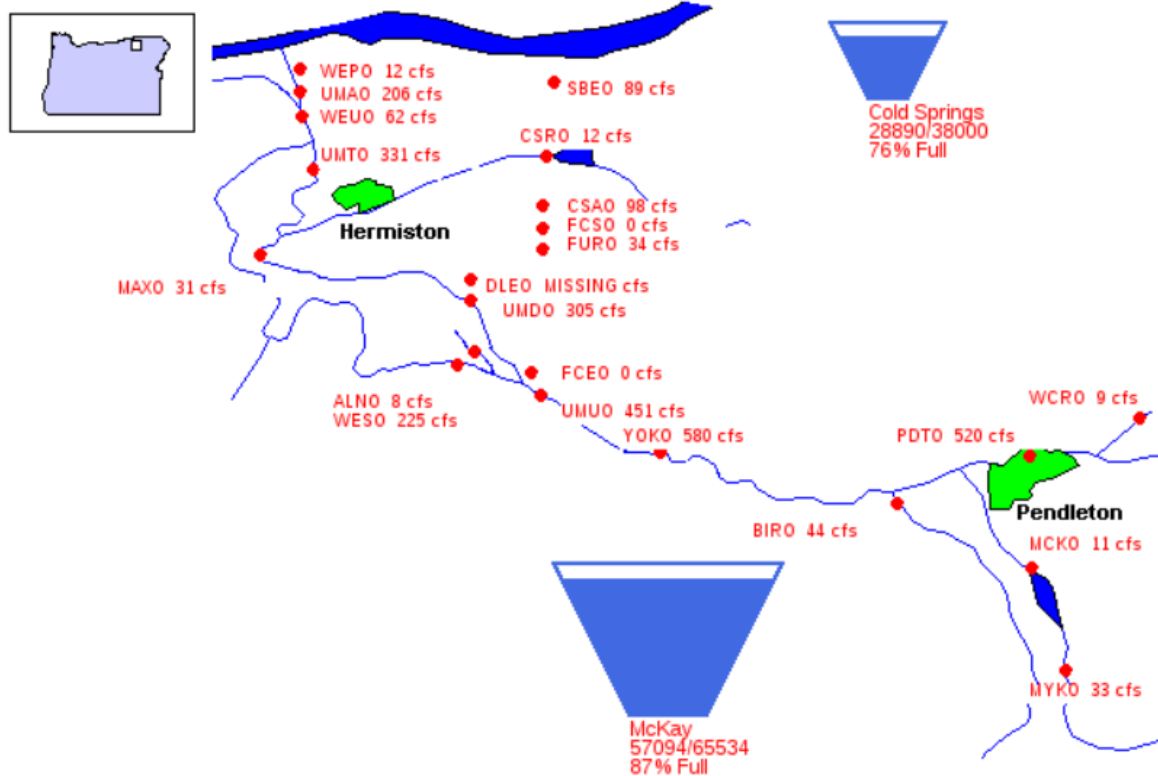
Reservoir Storage – Umatilla River Basin

Website: <http://www.usbr.gov/pn/hydromet/umatilla/umatea.html> (Provisional Data)

Reservoir	Percent Full on April 18, 2016
McKay Reservoir	87 percent
Cold Springs Reservoir	76 percent

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

04/18/2016



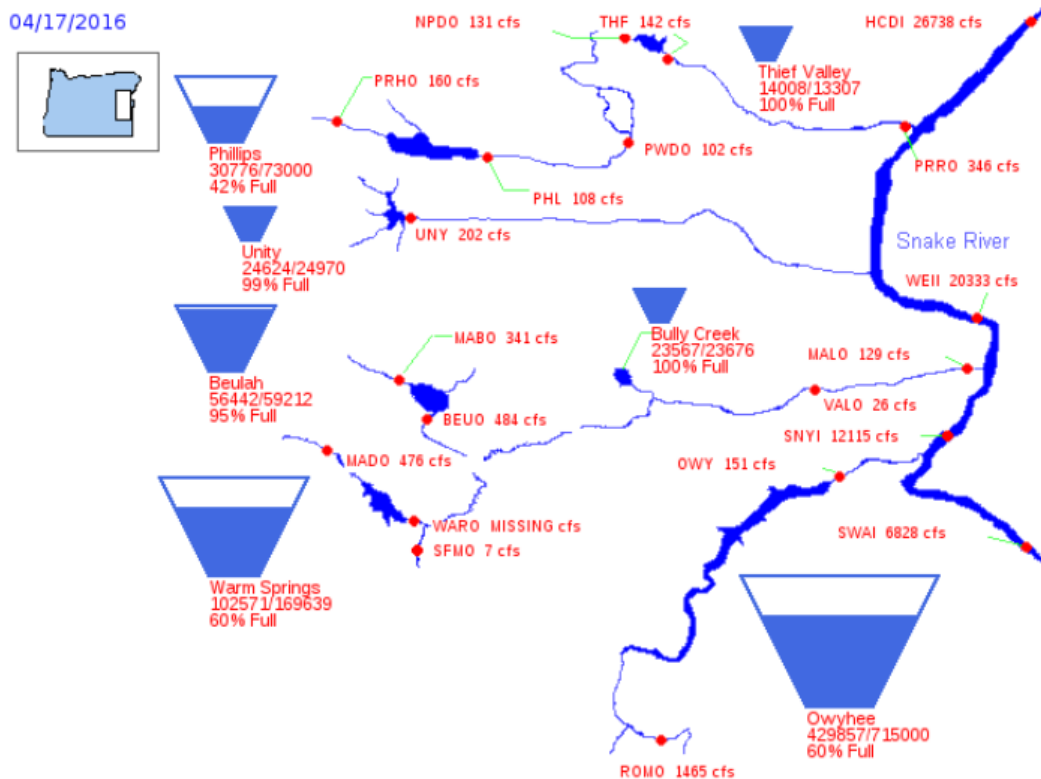
PROVISIONAL DATA - SUBJECT TO CHANGE!

Reservoir Storage – Southeastern Oregon

Website: <http://www.usbr.gov/pn/hydromet/owytea.html> (Provisional Data)

Reservoir	Percent Full on April 17, 2016
Phillips Reservoir	42 percent
Unity Reservoir	99 percent
Beulah Reservoir	95 percent
Warm Springs Reservoir	60 percent
Thief Valley Reservoir	100 percent
Owyhee Reservoir	60 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!