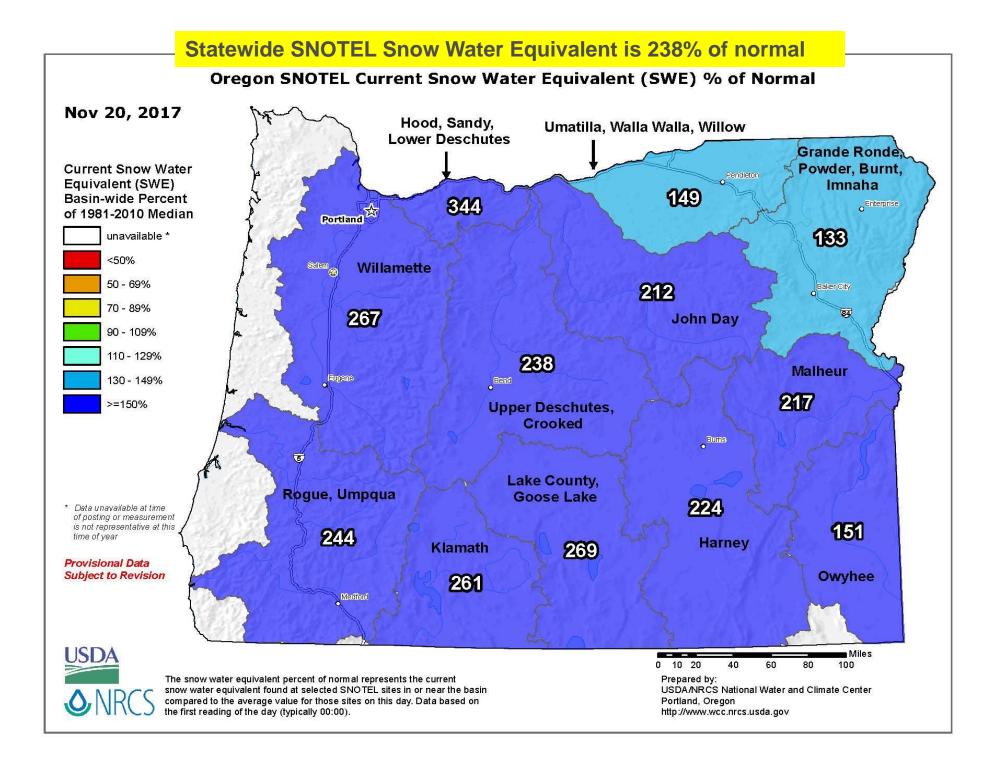
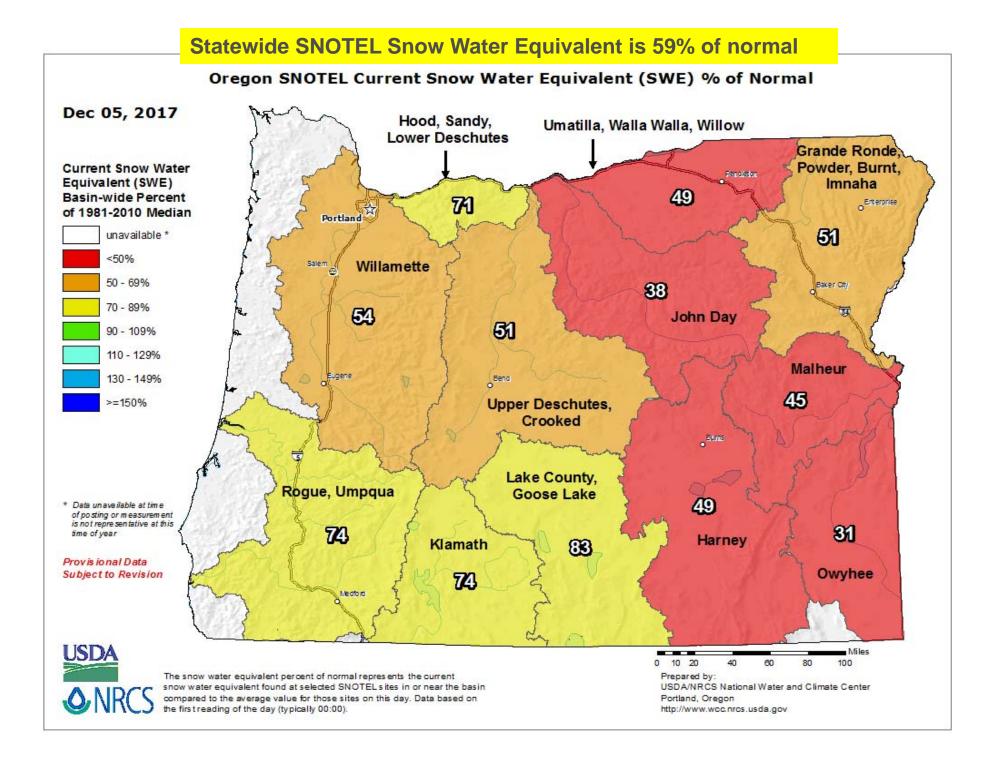
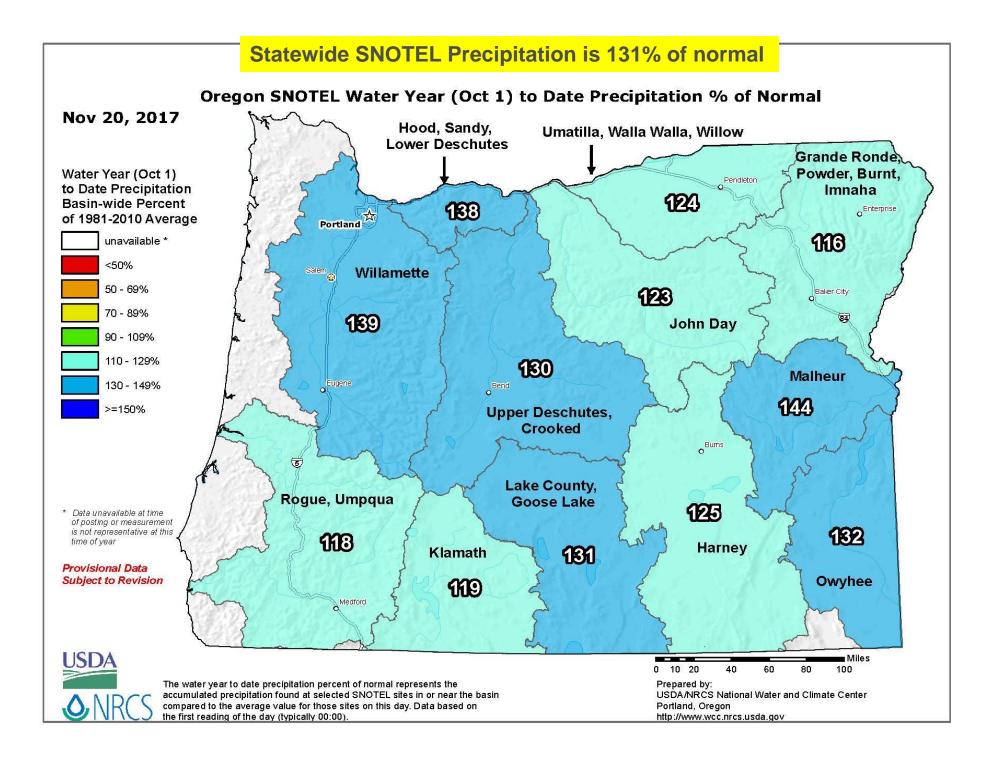
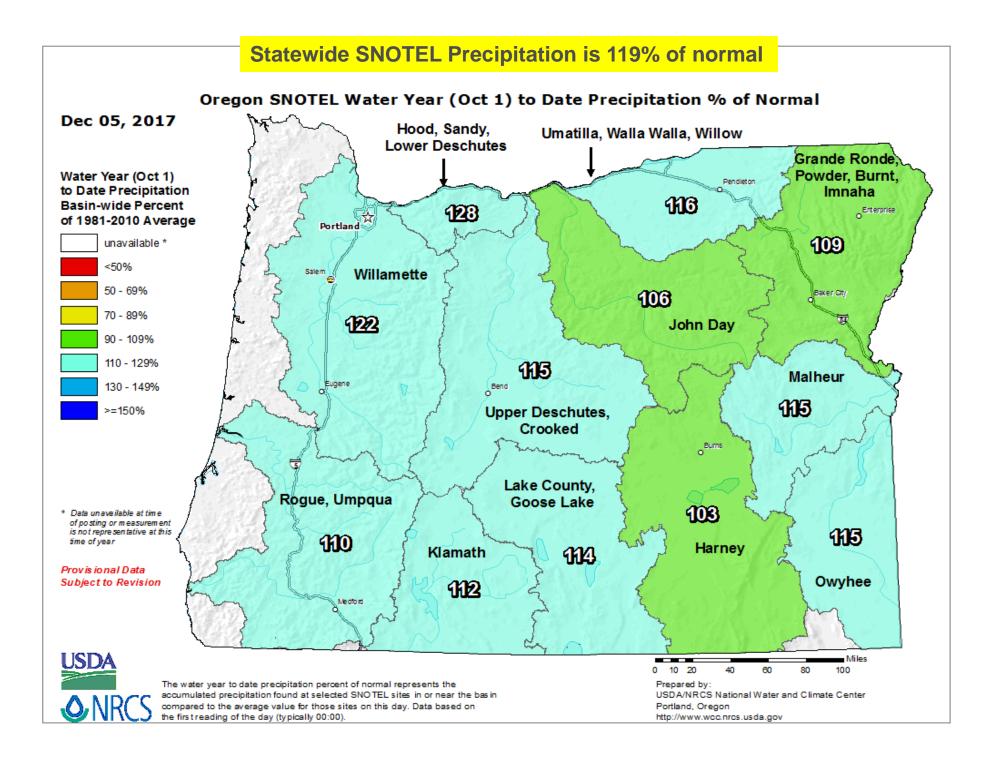
Oregon Water Supply Availability Committee December 5, 2017

H. Scott Oviatt Snow Survey Supervisory Hydrologist USDA NRCS Snow Survey and Water Supply Forecasting Program <u>Scott.Oviatt@or.usda.gov</u> 503-414-3271 http://www.nrcs.usda.gov/wps/portal/nrcs/main/or/snow/









General Observations in Early December 2017

- Snow Water equivalent Values Generally = 8.0" water or less
- Snow Concentrated at higher elevations, little low to mid elevation snowpack
- Low and mid elevation snowpack that was measured in mid-November has melted due to warmer temperatures and rain-on-snow
- Little if any accumulating snow since mid-November (most mountain precipitation rain)

Oregon Water Supply Availability Committee December 5, 2017

H. Scott Oviatt Snow Survey Supervisory Hydrologist USDA NRCS Snow Survey and Water Supply Forecasting Program <u>Scott.Oviatt@or.usda.gov</u> 503-414-3271 http://www.nrcs.usda.gov/wps/portal/nrcs/main/or/snow/

Thank you!

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Oregon Water Supply Availability December 4, 2017 NWS Update

Andy Bryant, NWS Portland

WY2018 Precipitation thus far

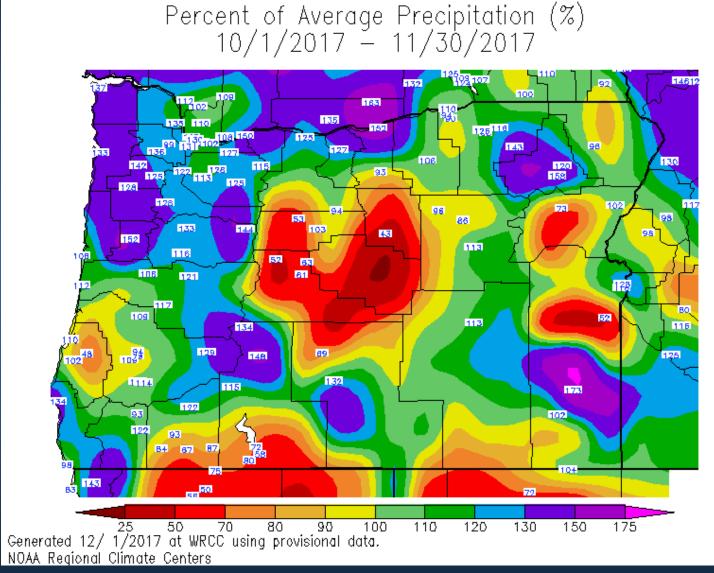


Image sources: wrcc.dri.edu



November Precipitation

Observed Amounts (inches)

% of Average

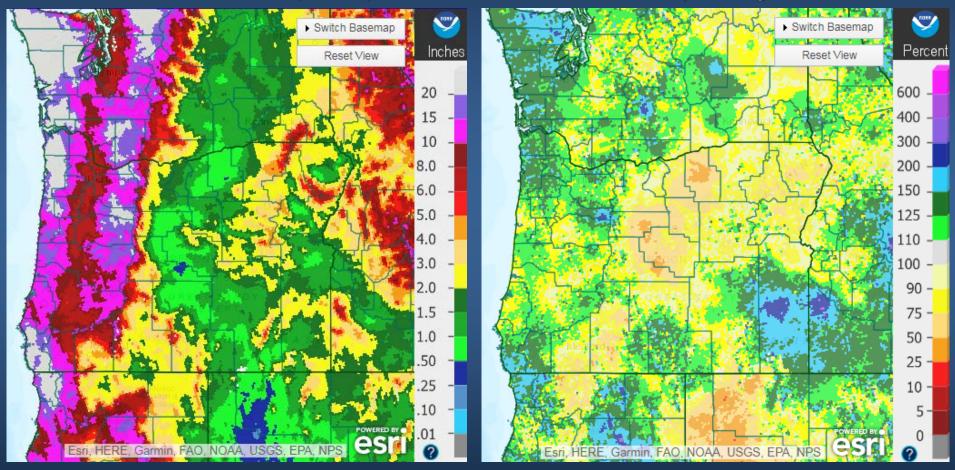


Image sources: water.weather.gov/precip/index.php

Temperatures Oct & Nov

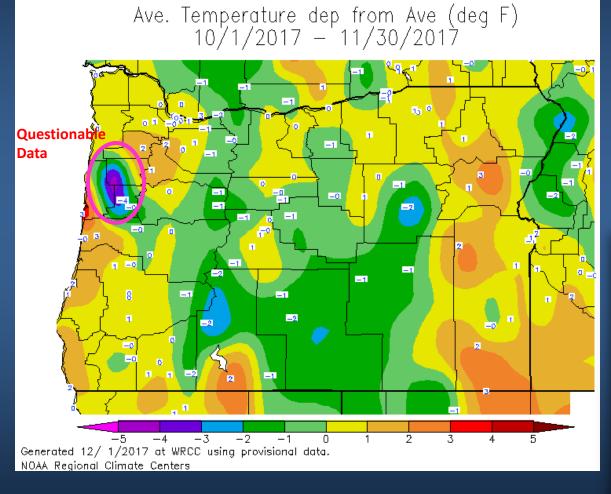
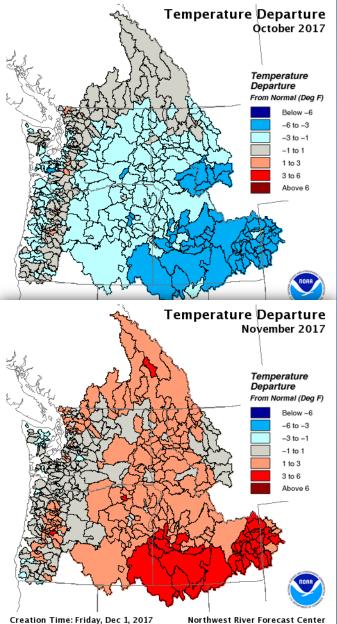


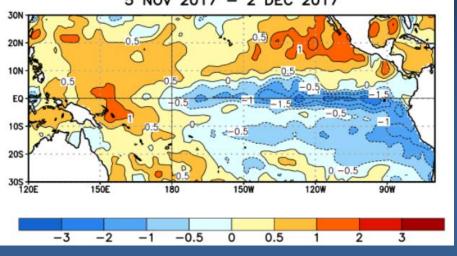
Image sources: wrcc.dri.edu & www.nwrfc.noaa.gov



NORR

La Niña Conditions

Average SST Anomalies 5 NOV 2017 - 2 DEC 2017



La Niña is likely now peaking and predicted to slowly trend to ENSO neutral during the spring of 2018.

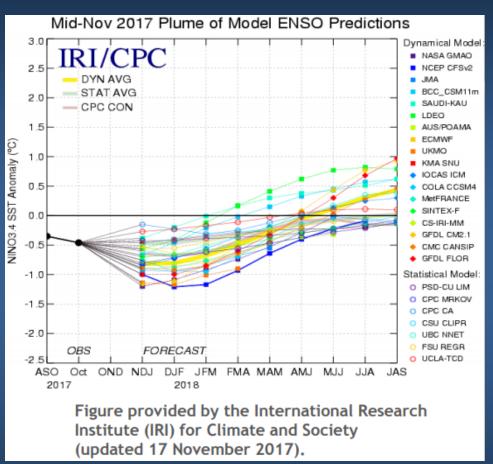
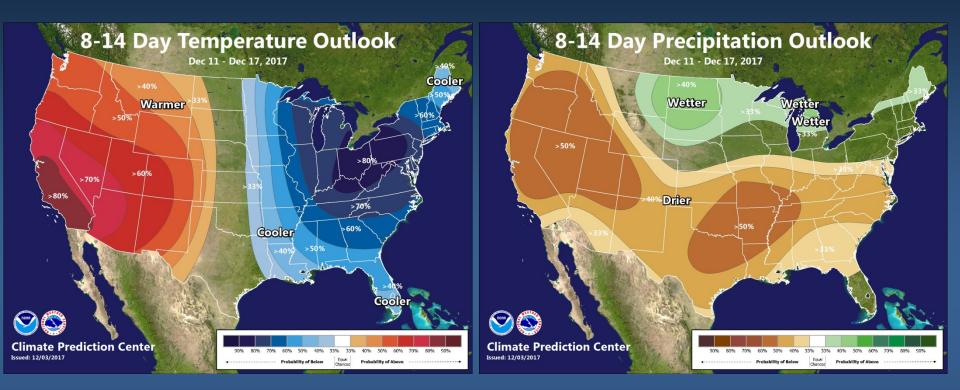


Image sources: www.cpc.ncep.noaa.gov



December Outlook



Dry and warm (except for valley inversion) conditions are expected through mid December, likely resulting in below-average precipitation and aboveaverage temperatures for the month, barring a drastic change to wetter and/or cooler conditions in late December.

Image source: www.cpc.ncep.noaa.gov



Outlook for January-February-March

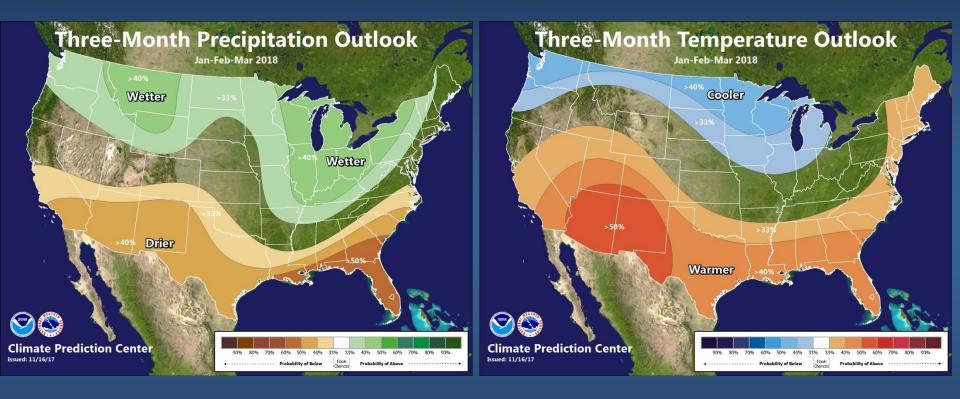
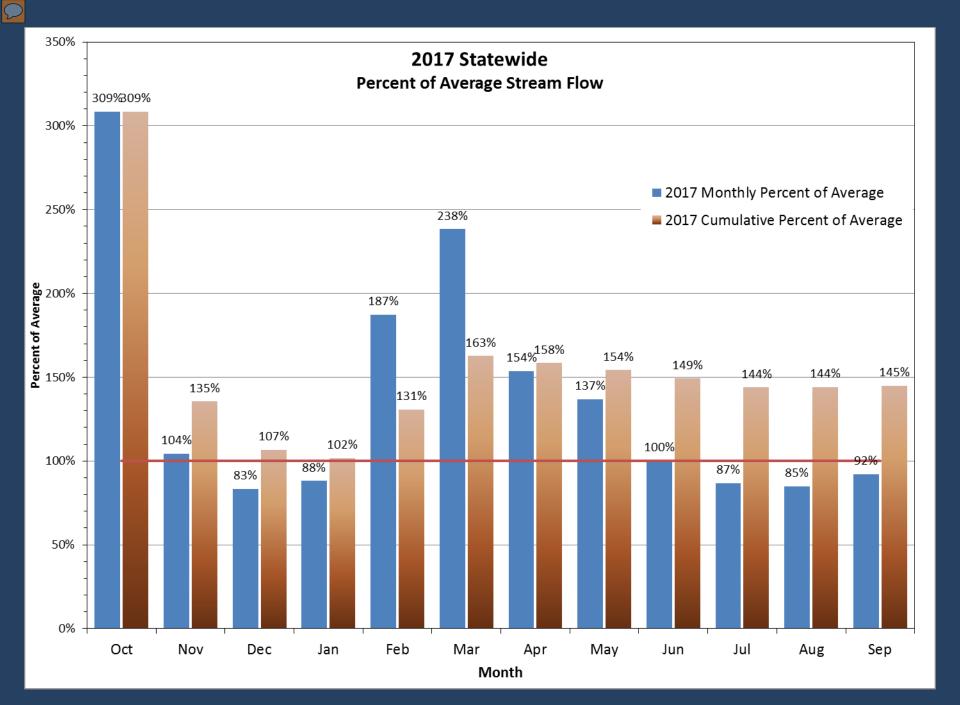


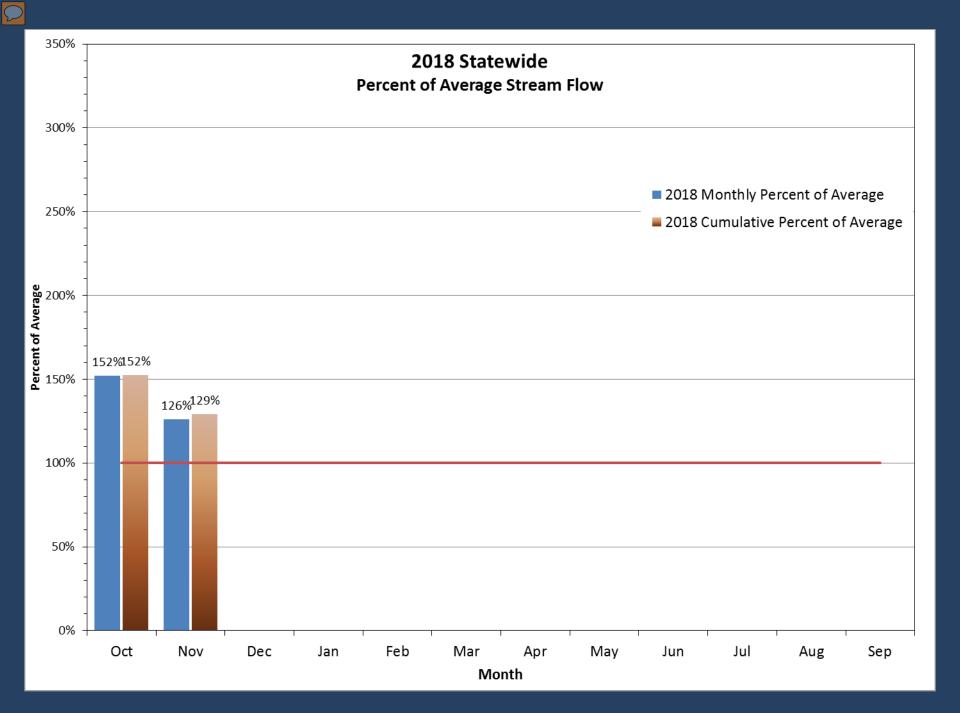
Image source: www.cpc.ncep.noaa.gov

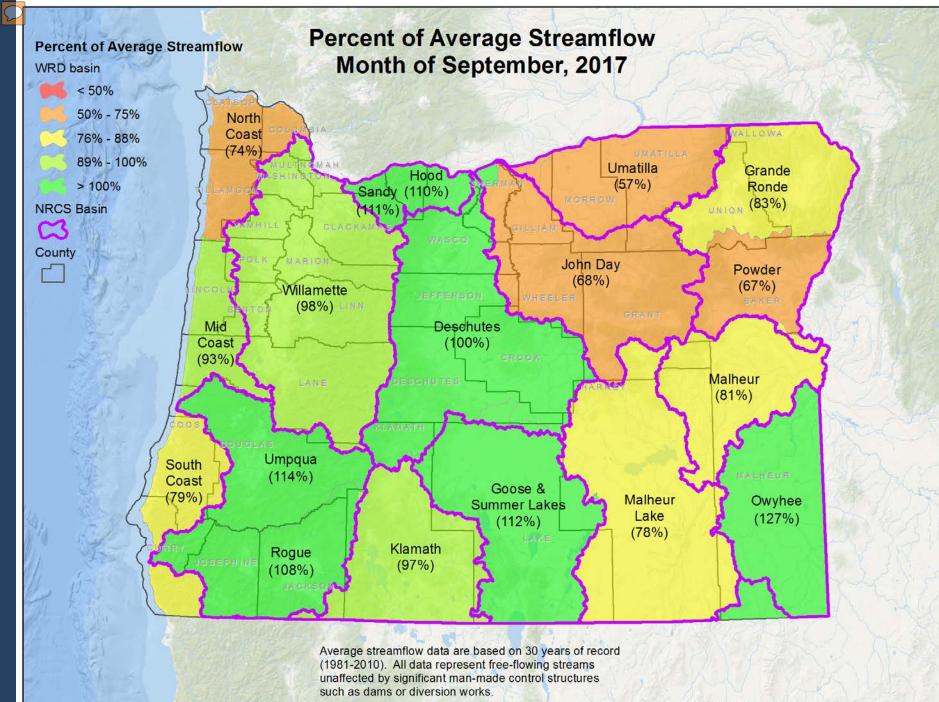
Surface Water Conditions Report Water Supply Availability Committee



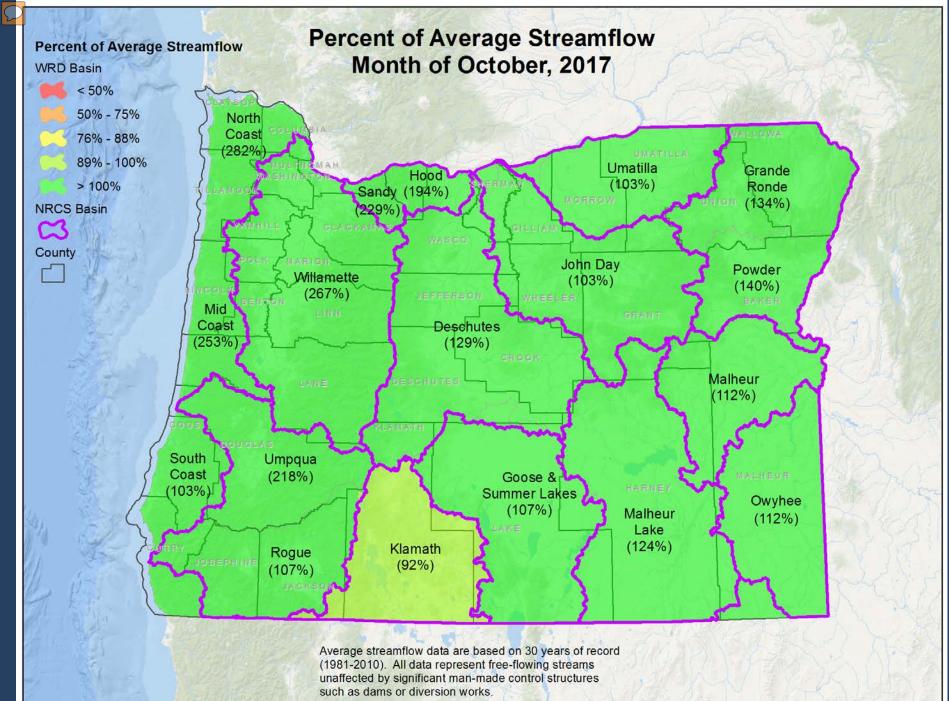
Ken Stahr Oregon Water Resources Department December 5, 2017



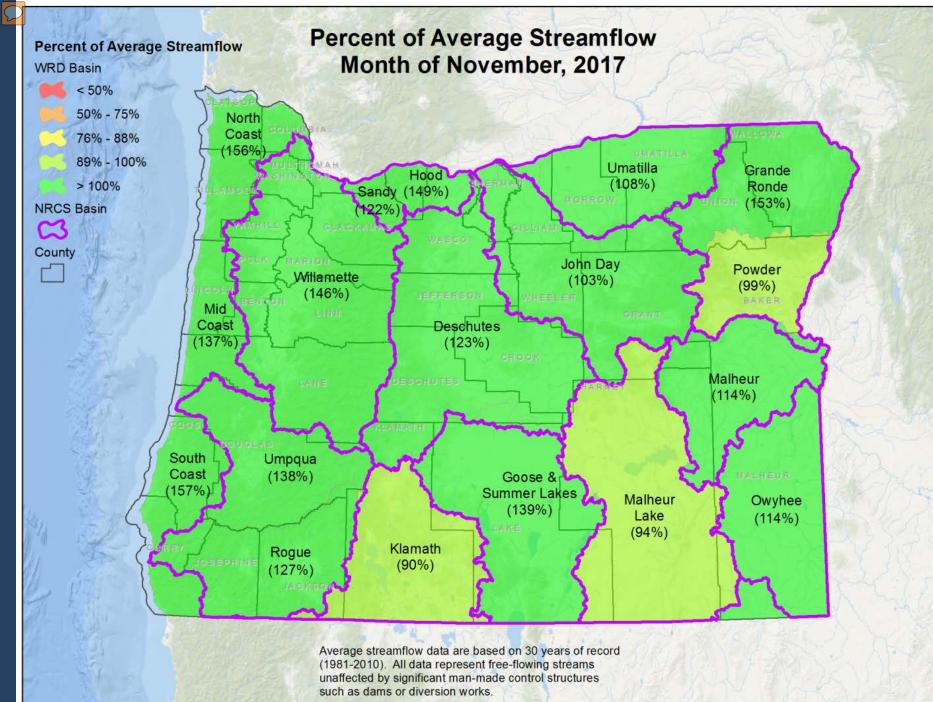




Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors

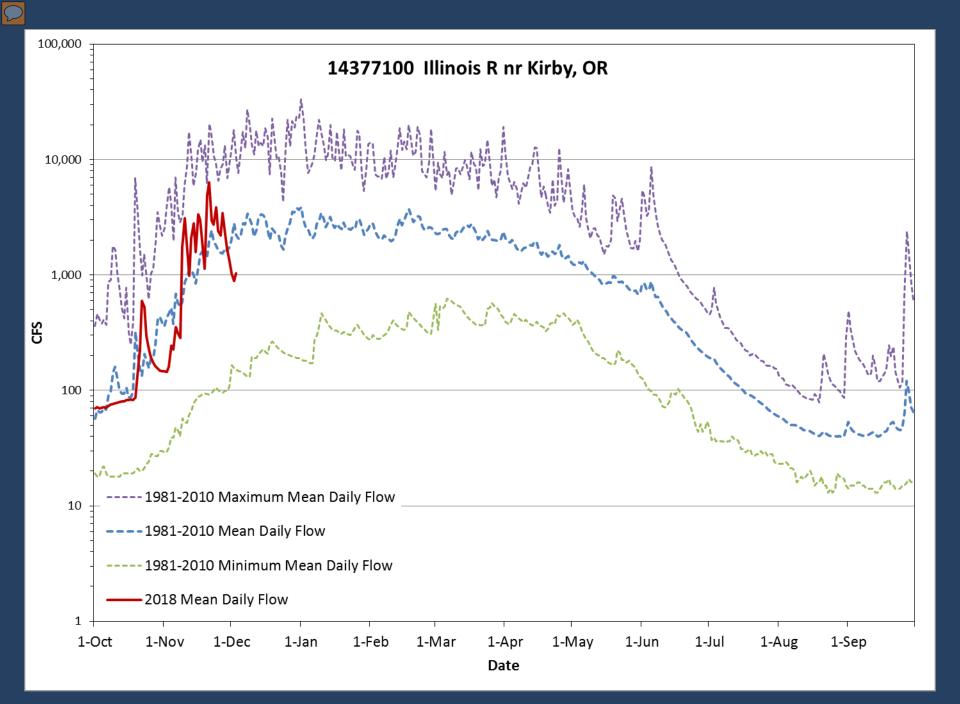


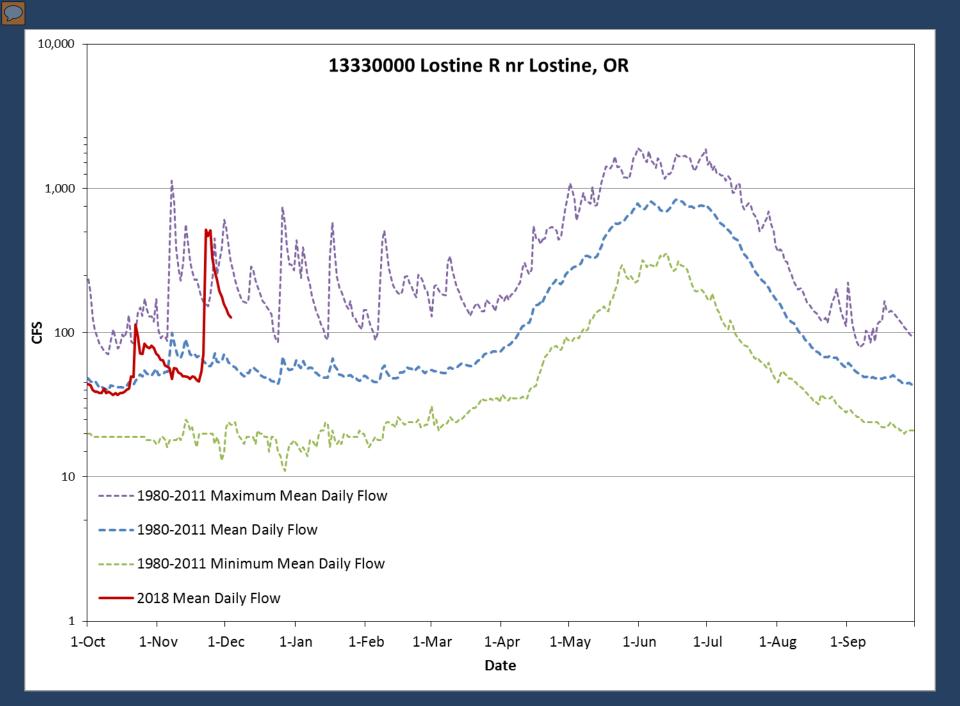
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors

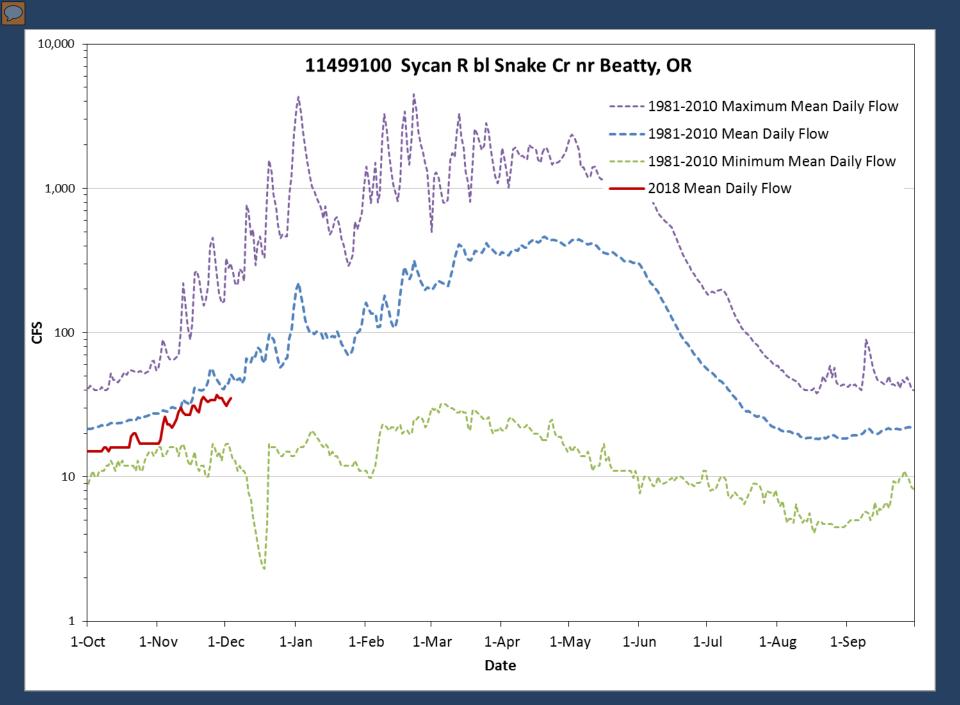


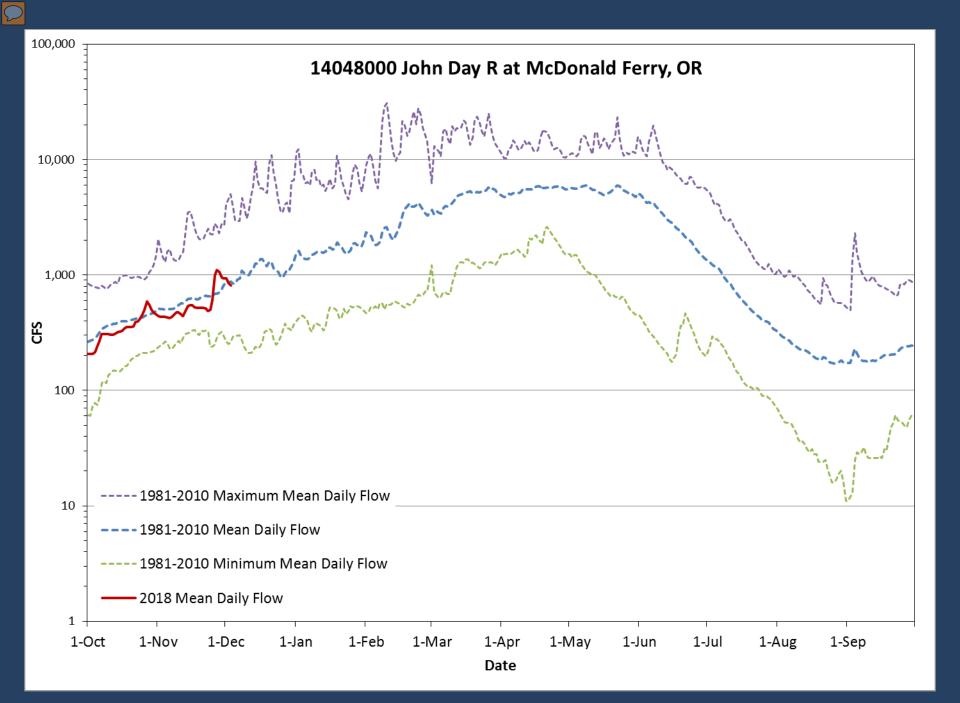
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors

Basin	Water Year % of	% of average for November	% of average
	average through		for
	November, 2017		12/01/2017
North Coast	178%	156%	81%
Willamette	165%	146%	77%
Sandy	150%	122%	67%
Hood	162%	149%	87%
Deschutes	122%	123%	131%
John Day	103%	103%	102%
Umatilla	107%	108%	83%
Grande Ronde	141%	153%	149%
Powder	92%	99%	74%
Malheur	113%	114%	109%
Owyhee	114%	114%	137%
Malheur Lake	93%	94%	97%
Goose & Summer Lakes	127%	139%	111%
Klamath	92%	90%	88%
Rogue	126%	127%	61%
Umpqua	147%	138%	42%
South Coast	149%	157%	53%
Mid Coast	146%	137%	64%
West Side	152%	140%	64%
East Side	115%	117%	106%
State	129%	126%	90%





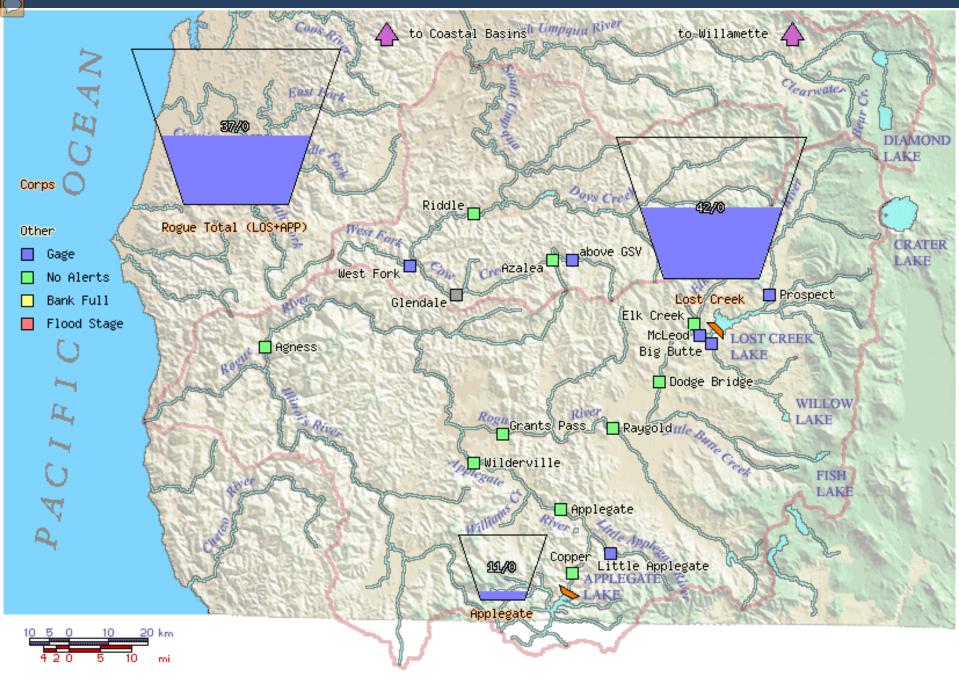




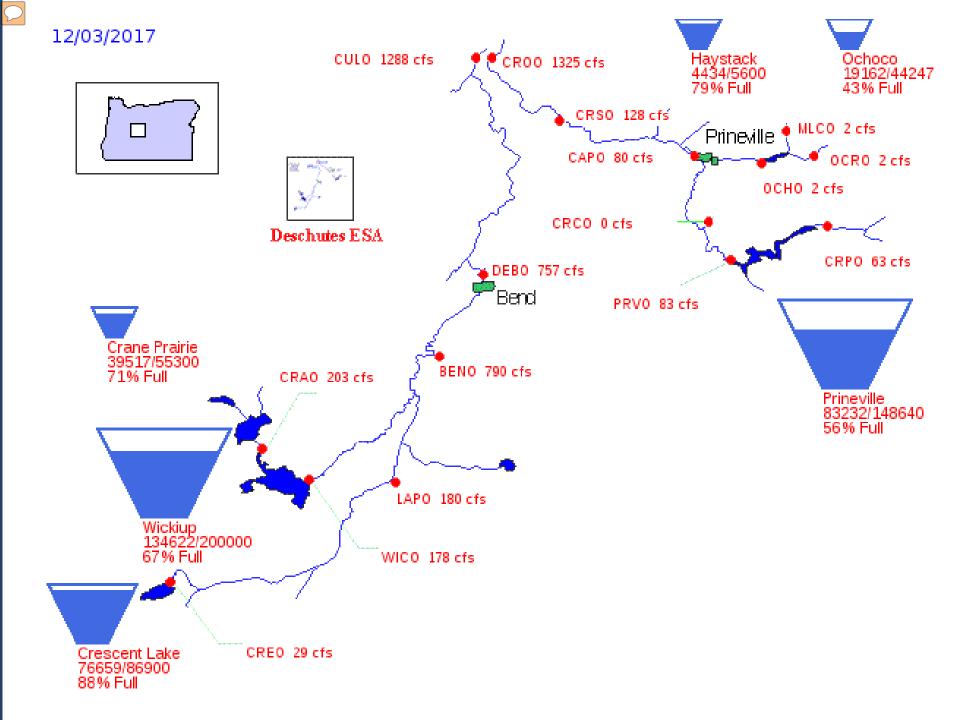




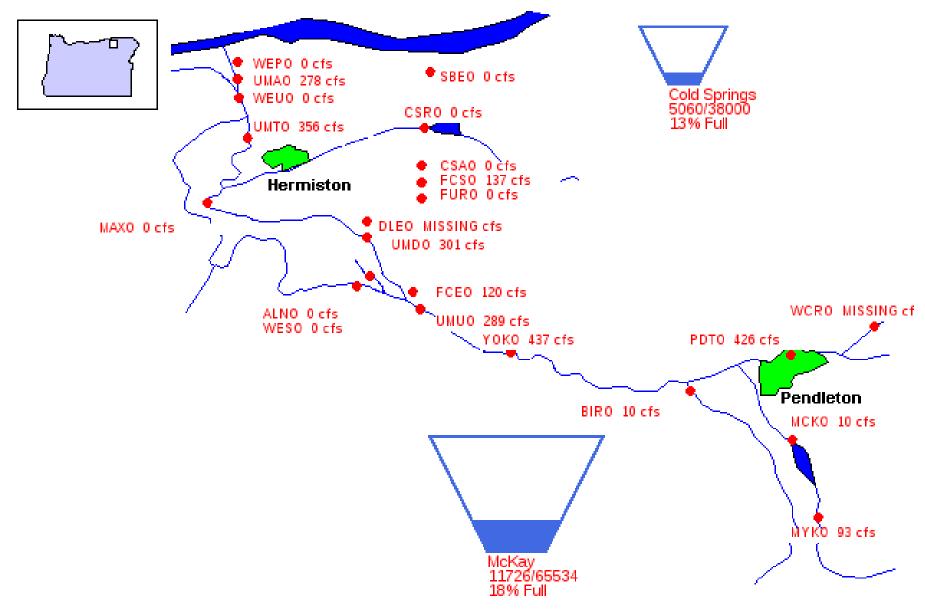
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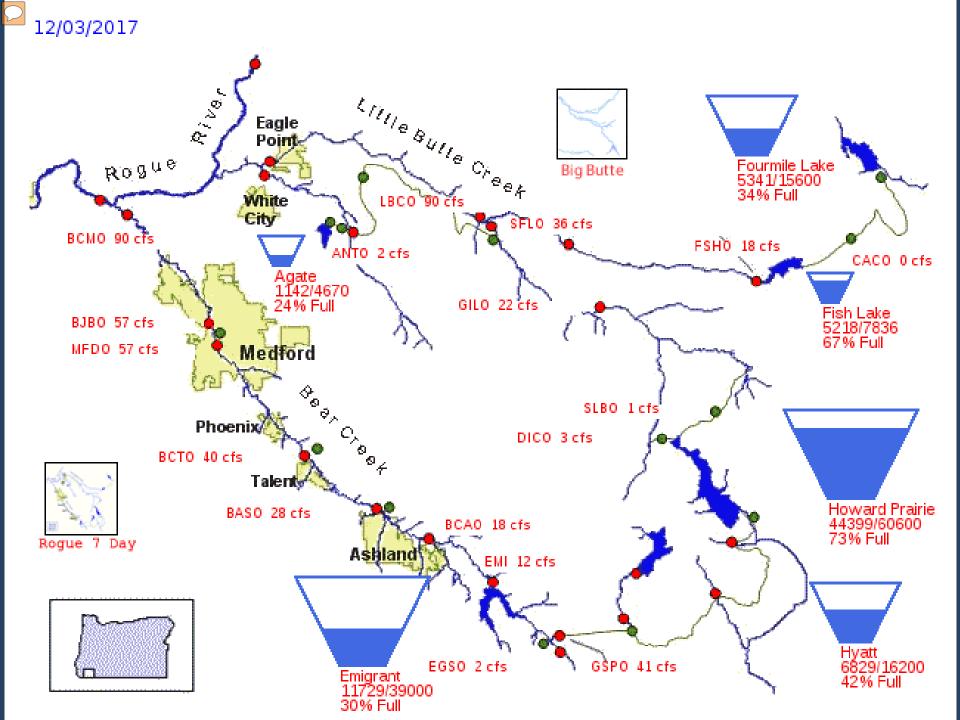


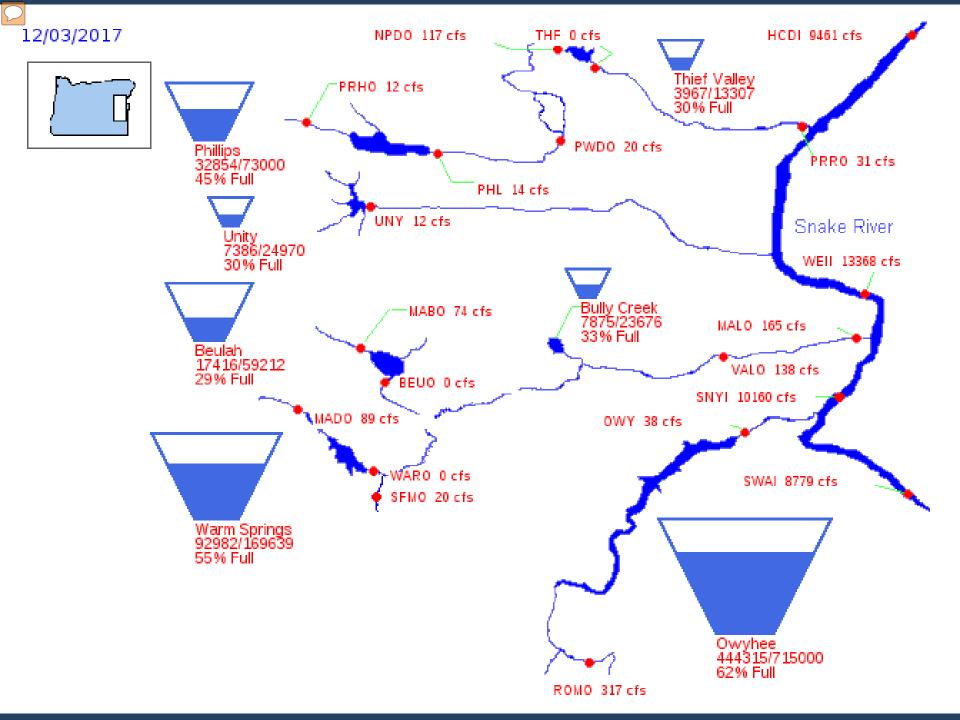
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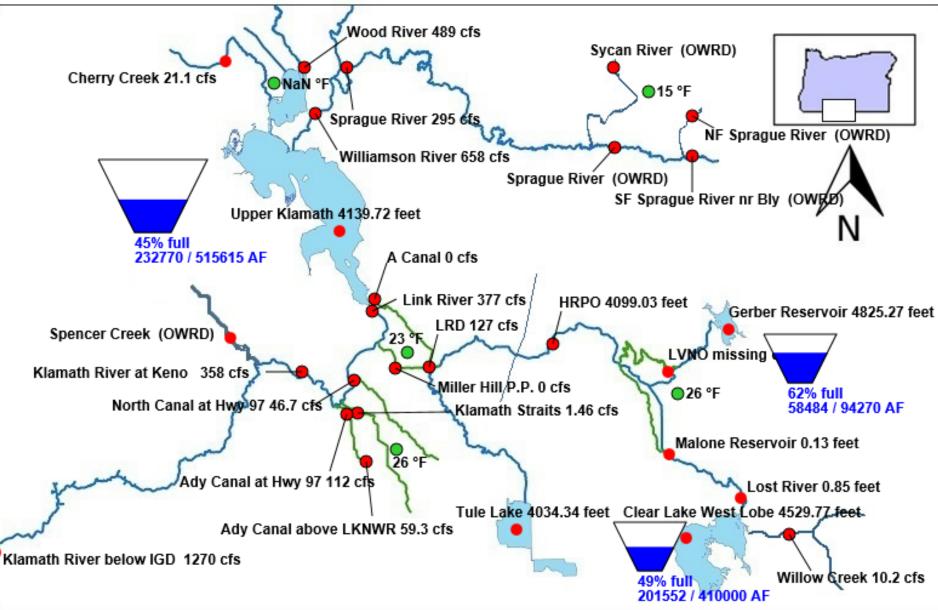












Mon Dec 04 2017 10:38:58 GMT-0800 (Pacific Standard Time)

Thank You

RECLANATION Managing Water in the West

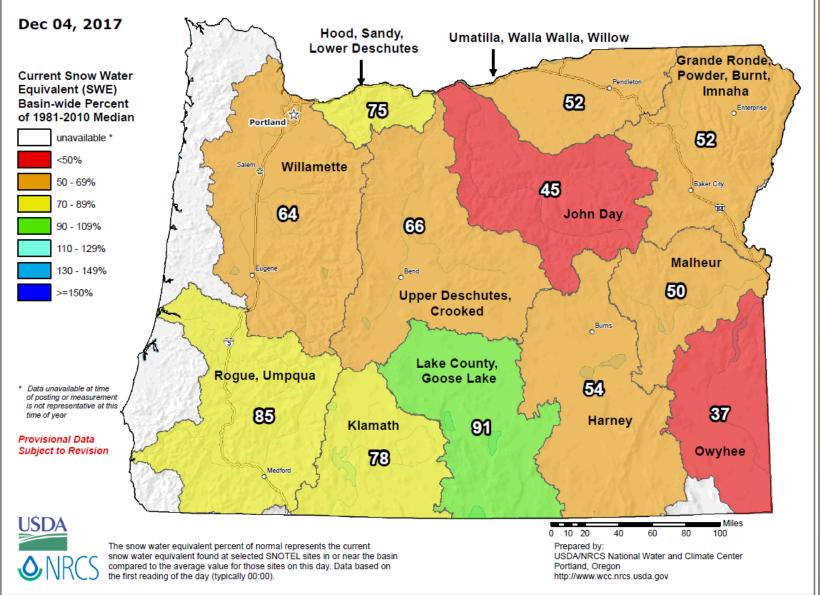
Oregon Water Supply Availability Committee Meeting December 5, 2017

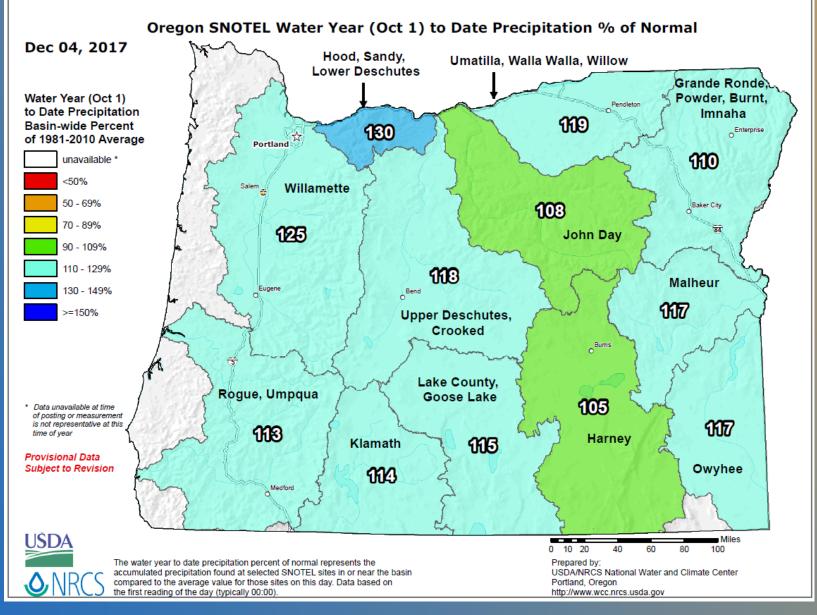


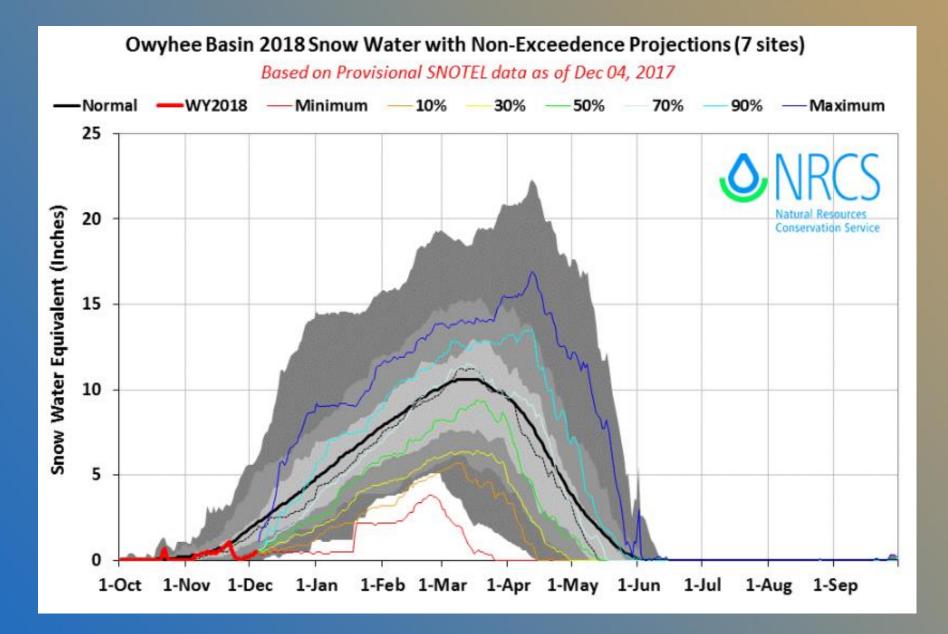


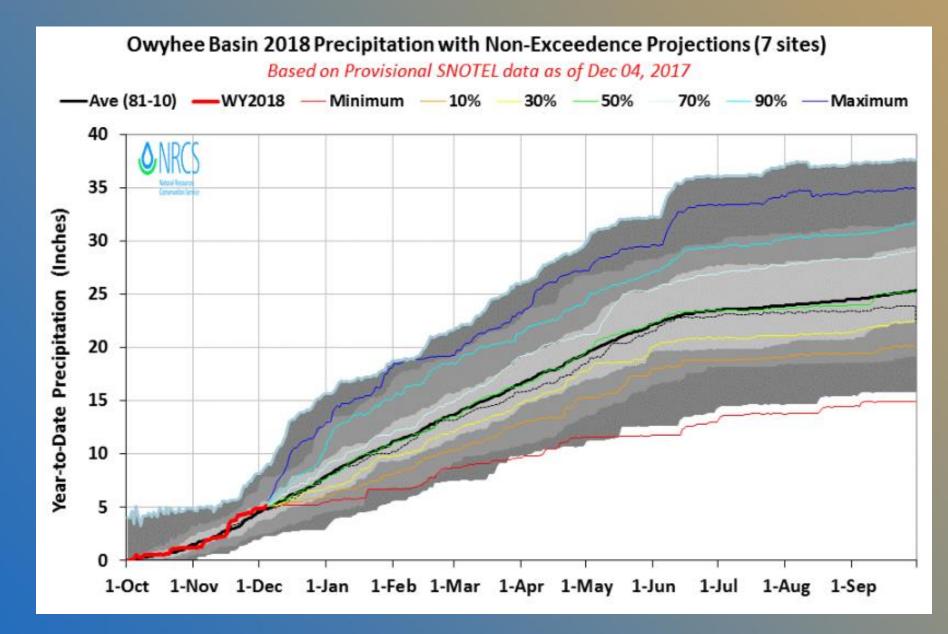
U.S. Department of the Interior Bureau of Reclamation

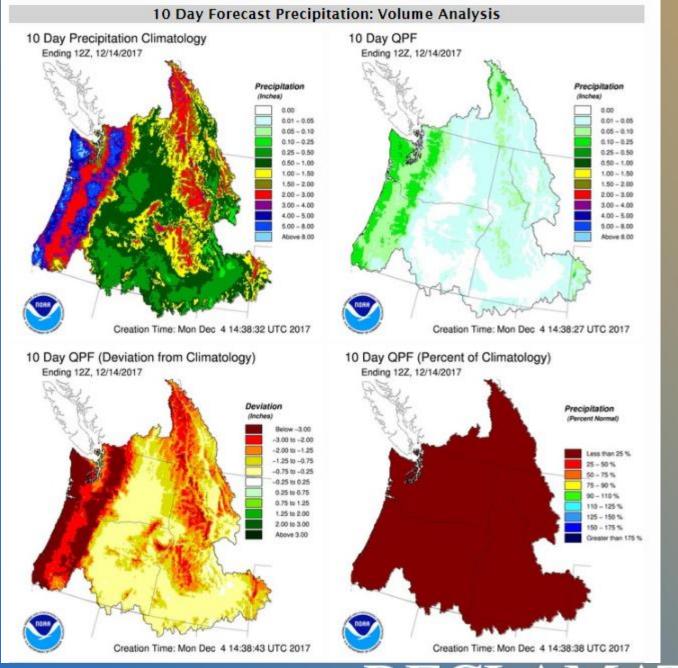
Oregon SNOTEL Current Snow Water Equivalent (SWE) % of Normal

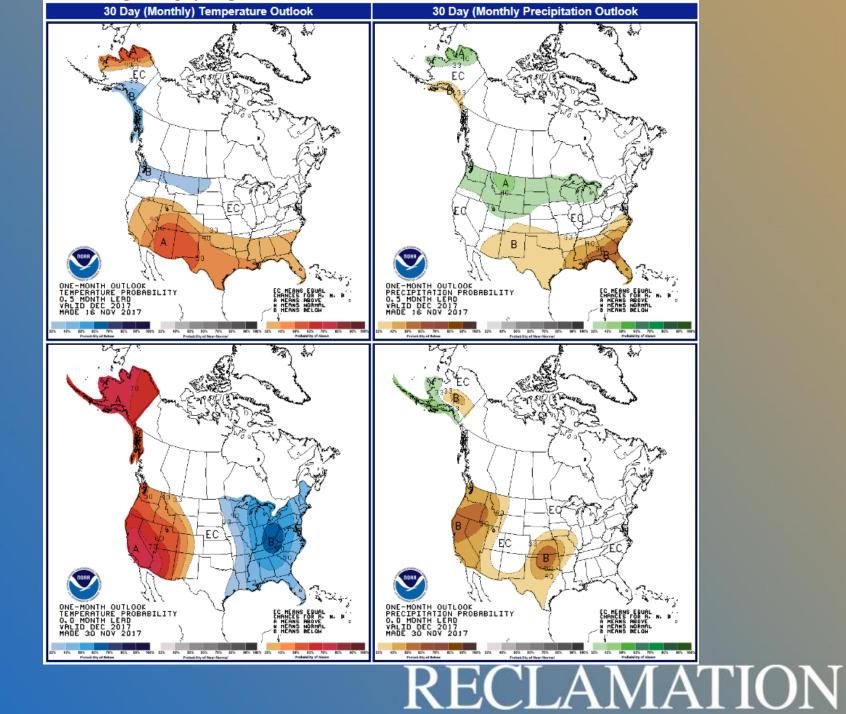


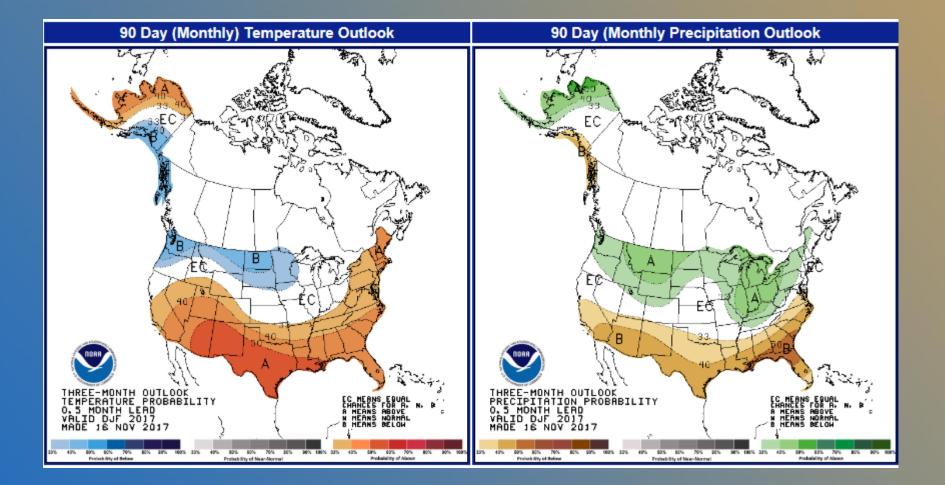






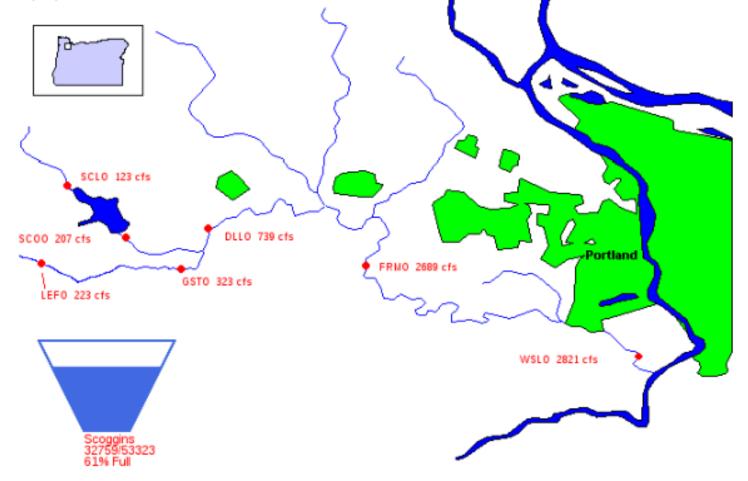




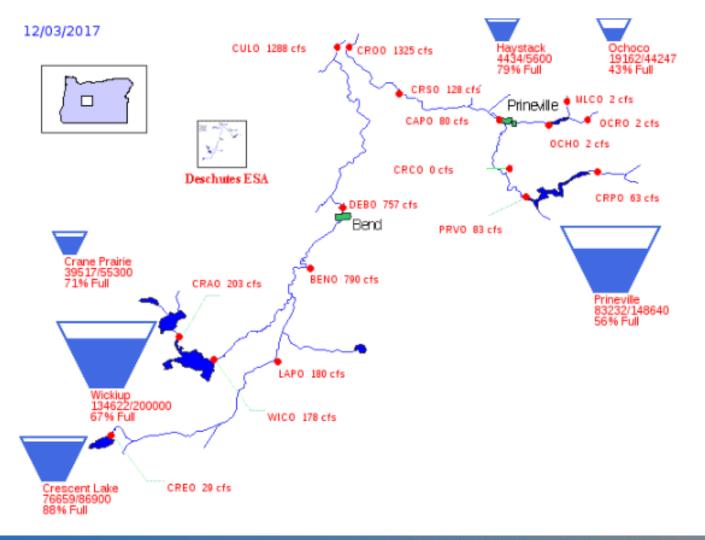


Bureau of Reclamation, Pacific Northwest Region Tualatin River Basin Storage and Flow Diagram

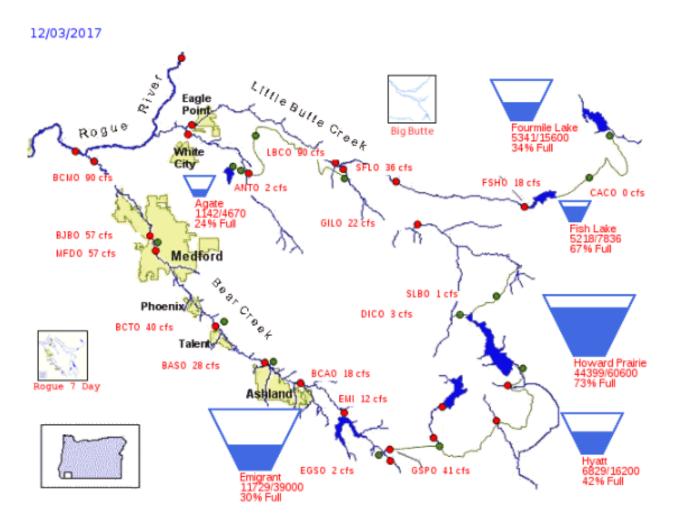
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US Bureau of Reclamation, Pacific Northwest Region Major Storage Reservoirs in the Deschutes River Basin



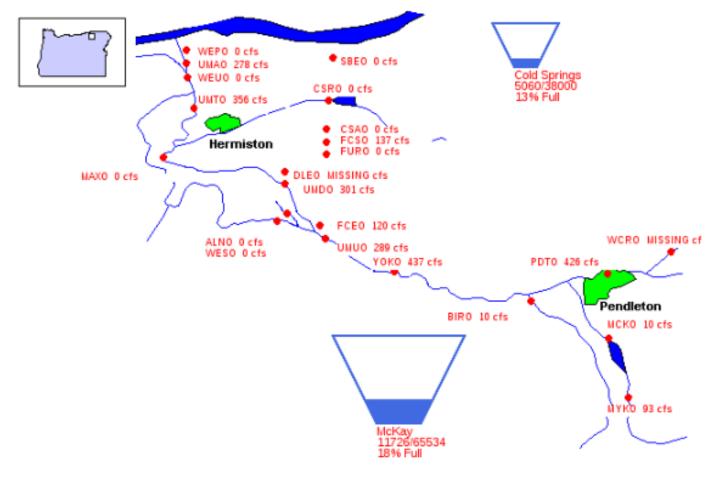
US Bureau of Reclamation, Pacific Northwest Region Bear Creek and Little Butte Creek Basins



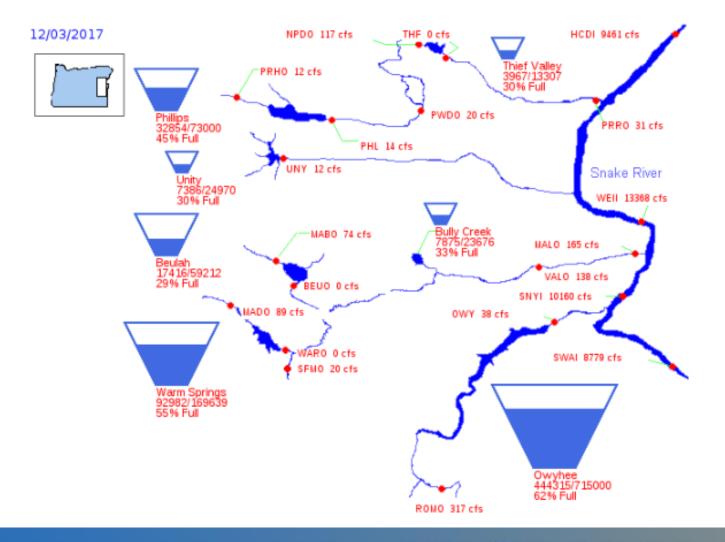
PROVISIONAL DATA - SUBJECT TO CHANGE!

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

12/03/2017



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



Questions?