Water Supply Conditions Report

Drought Readiness Council

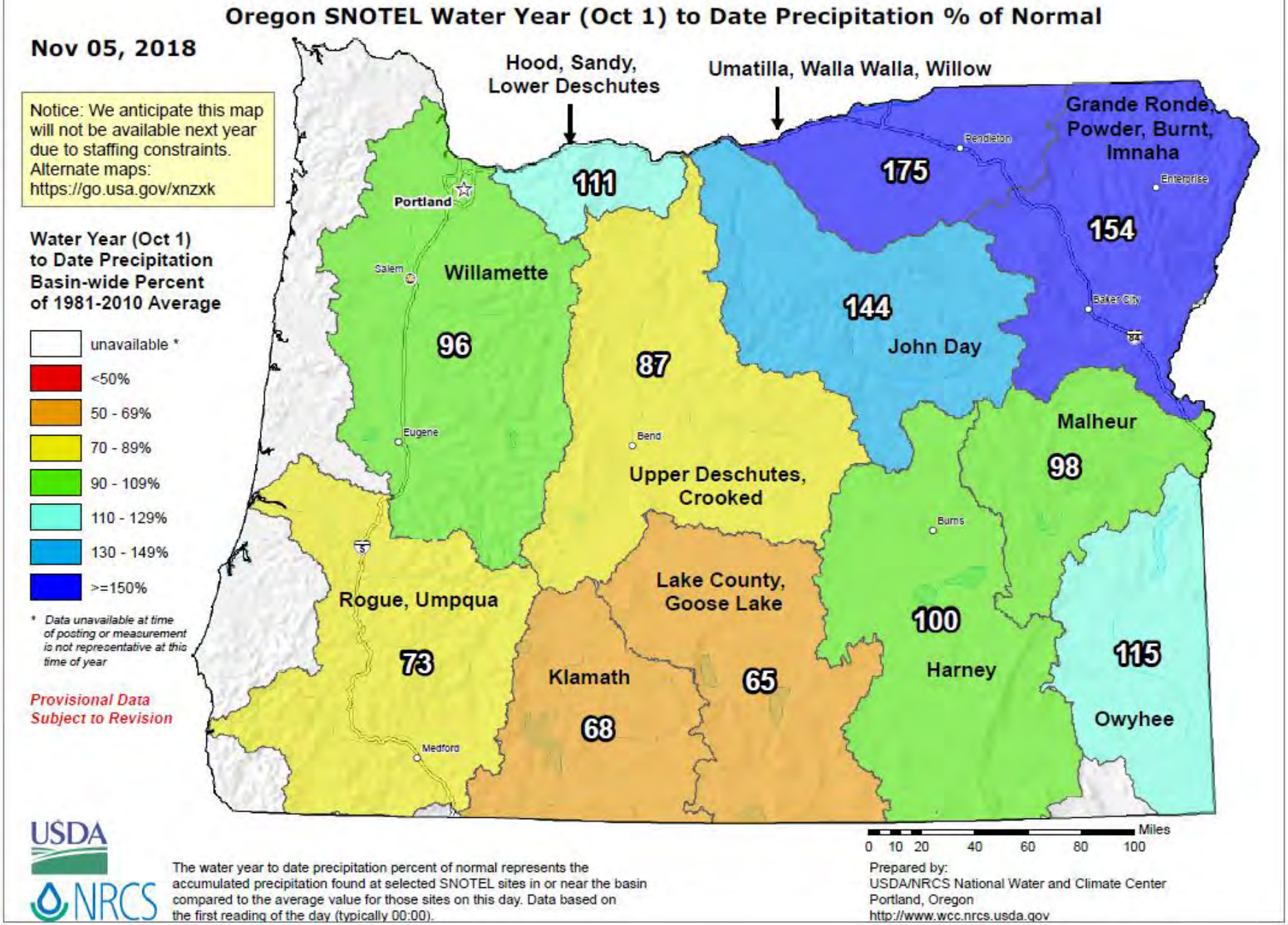
OREGON
WATER RESOURCES DEPARTMENT

Ken Stahr
Oregon Water Resources Department

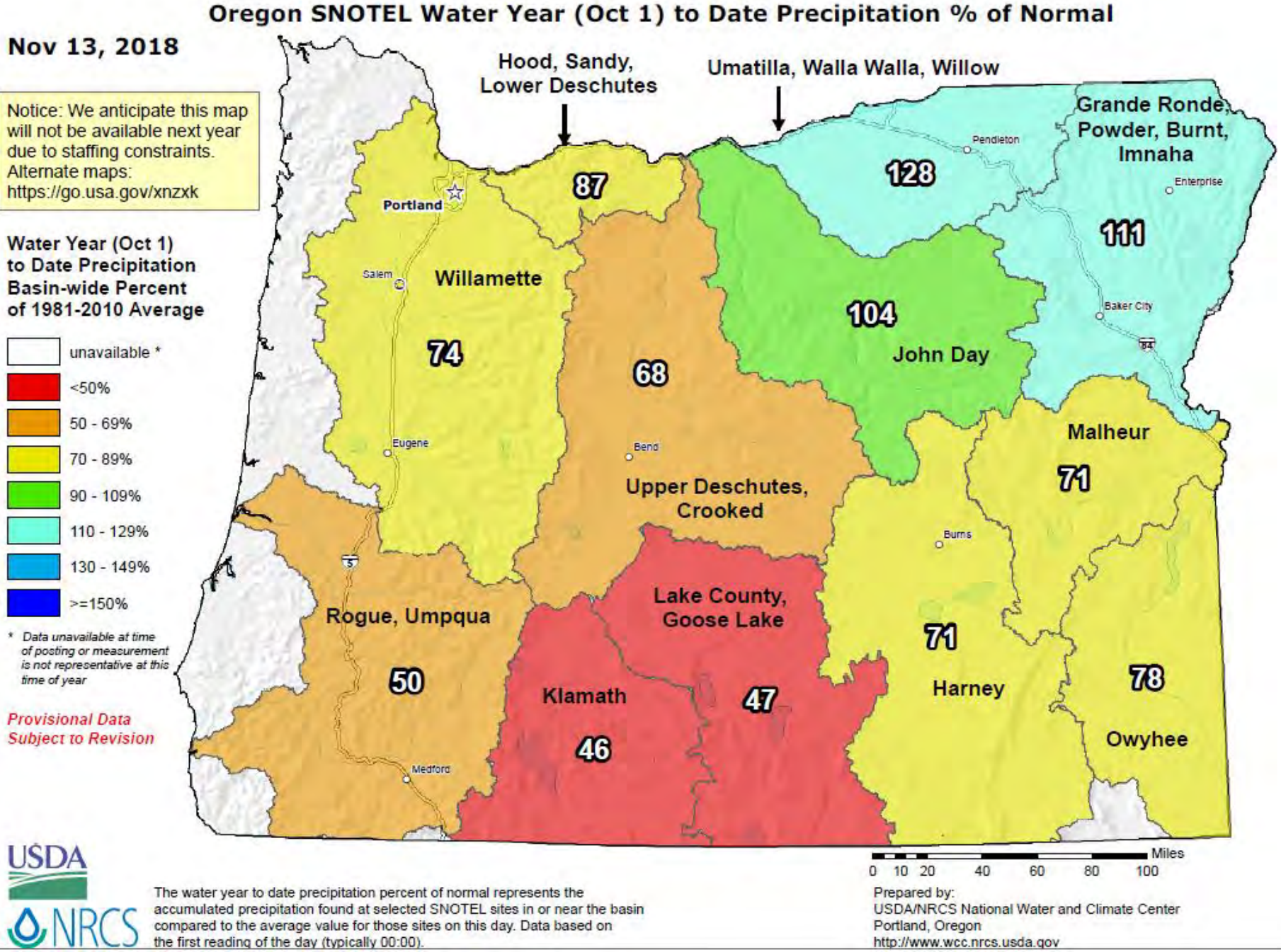
November 14, 2018

Photo: East Fork Lewis River - Andy Bryant, NWS Portland

Statewide SNOTEL Precipitation is 101% of normal



Statewide SNOTEL Precipitation is 76% of normal



USDA NRCS

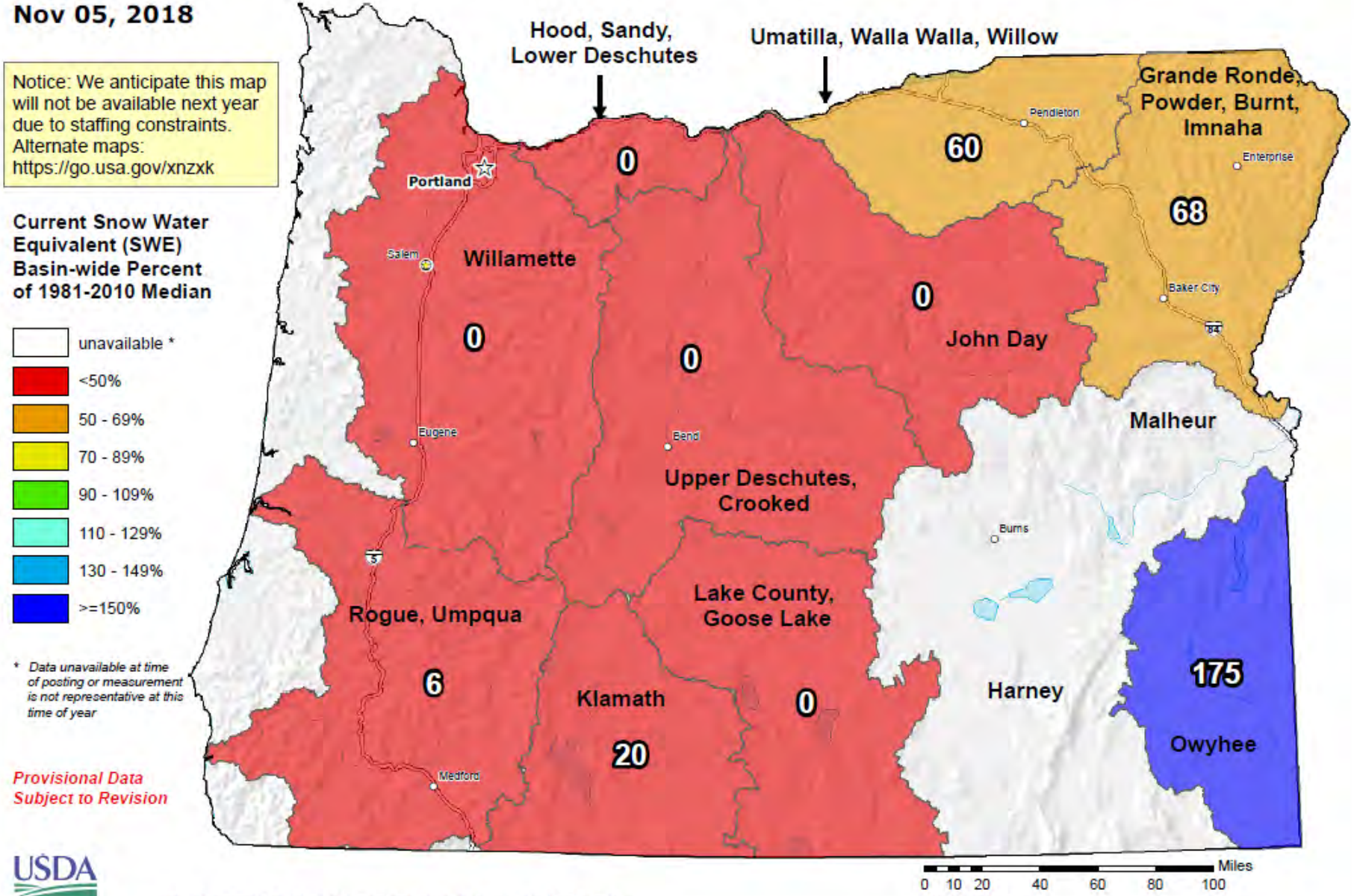
The water year to date precipitation percent of normal represents the accumulated precipitation found at selected SNOTEL sites in or near the basin compared to the average value for those sites on this day. Data based on the first reading of the day (typically 00:00).

Prepared by:
USDA/NRCS National Water and Climate Center
Portland, Oregon
http://www.wcc.nrcs.usda.gov

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

Nov 05, 2018

Notice: We anticipate this map will not be available next year due to staffing constraints. Alternate maps: https://go.usa.gov/xnzxk



Current Snow Water Equivalent (SWE) Basin-wide Percent of 1981-2010 Median

- unavailable *
- <50%
- 50 - 69%
- 70 - 89%
- 90 - 109%
- 110 - 129%
- 130 - 149%
- >=150%

* *Data unavailable at time of posting or measurement is not representative at this time of year*

Provisional Data Subject to Revision

USDA NRCS

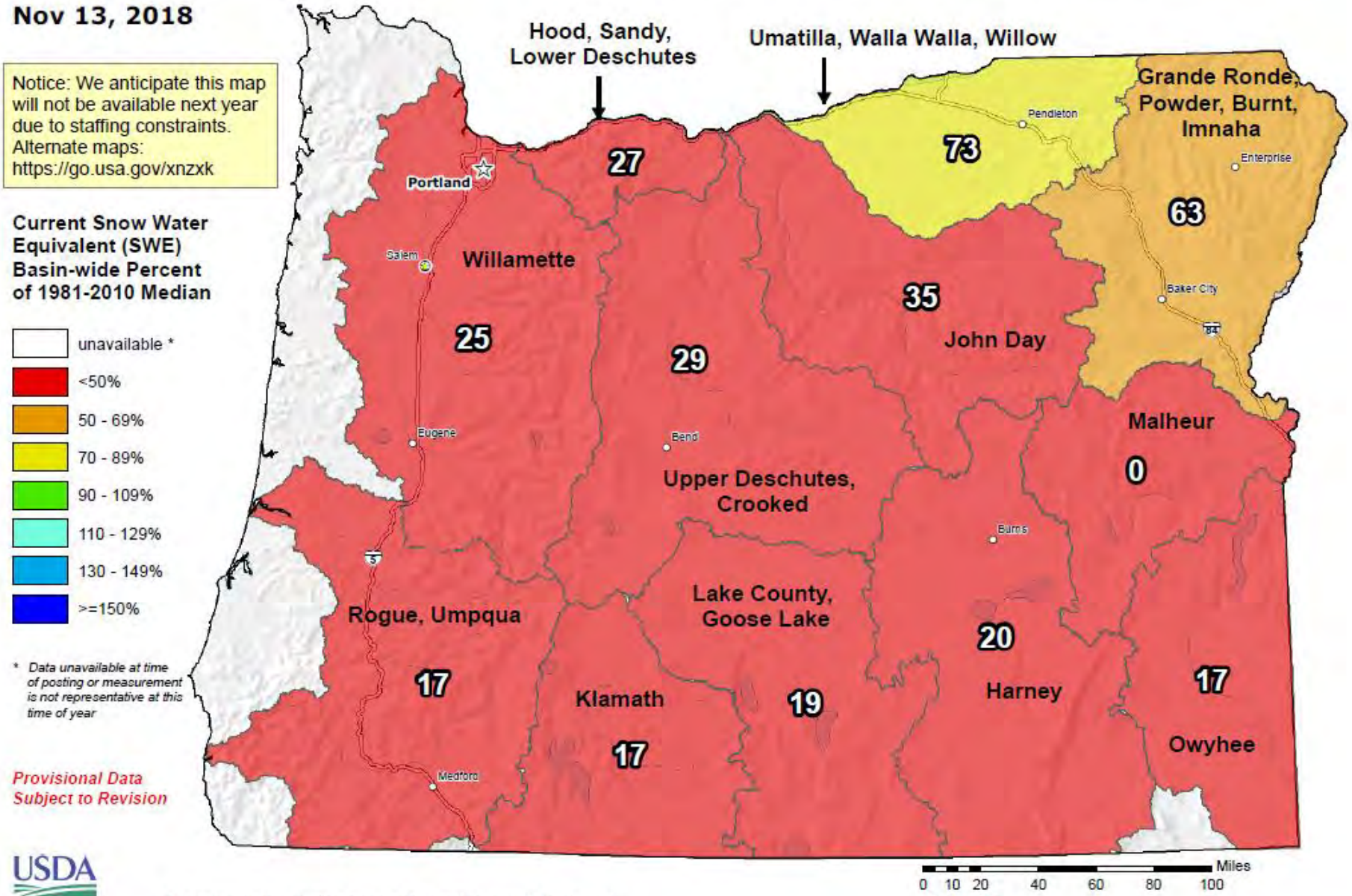
The snow water equivalent percent of normal represents the current snow water equivalent found at selected SNOTEL sites in or near the basin compared to the average value for those sites on this day. Data based on the first reading of the day (typically 00:00).

Prepared by:
USDA/NRCS National Water and Climate Center
Portland, Oregon
http://www.wcc.nrcs.usda.gov

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

Nov 13, 2018

Notice: We anticipate this map will not be available next year due to staffing constraints. Alternate maps: https://go.usa.gov/xnzxk

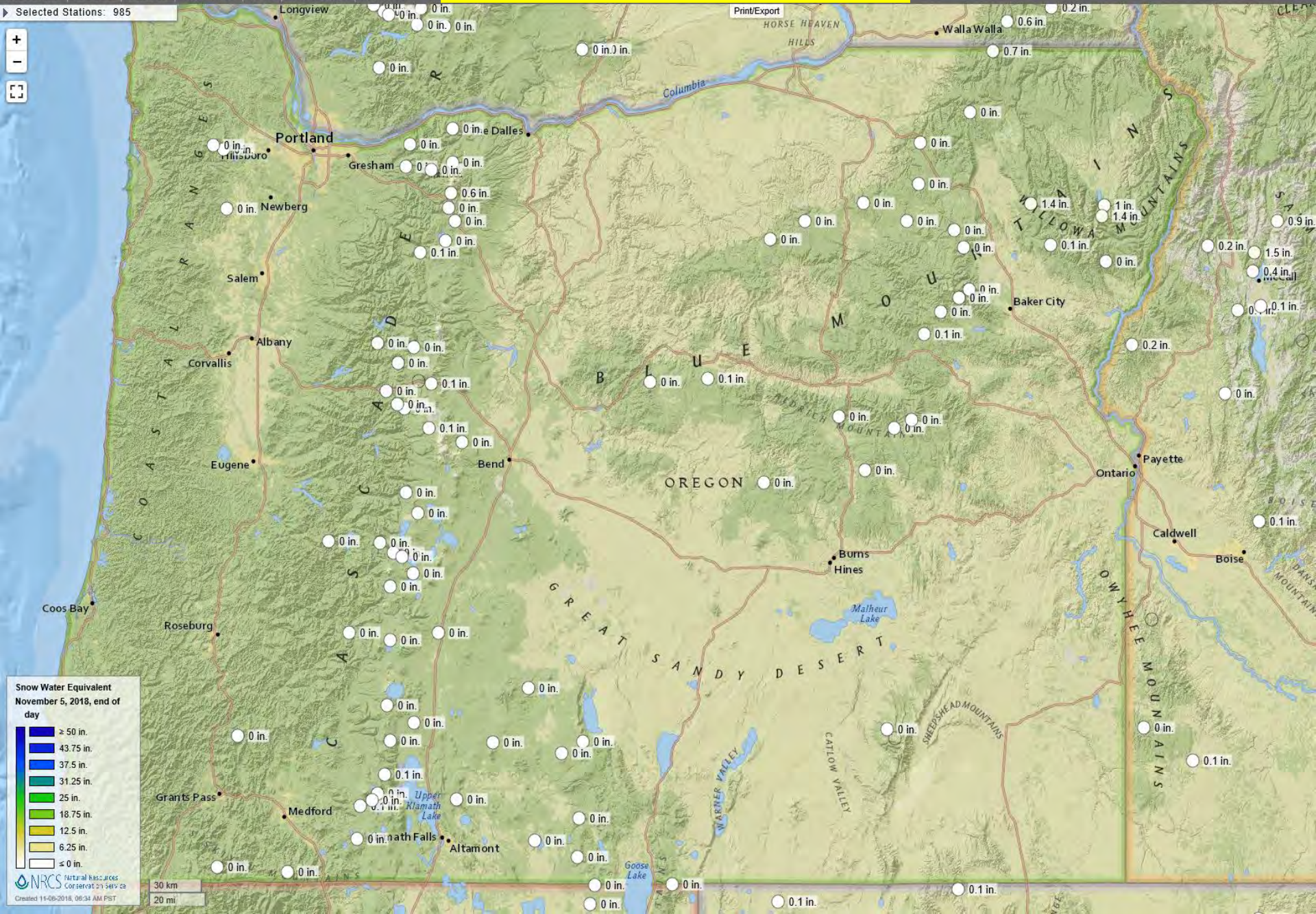


USDA NRCS

The snow water equivalent percent of normal represents the current snow water equivalent found at selected SNOTEL sites in or near the basin compared to the average value for those sites on this day. Data based on the first reading of the day (typically 00:00).

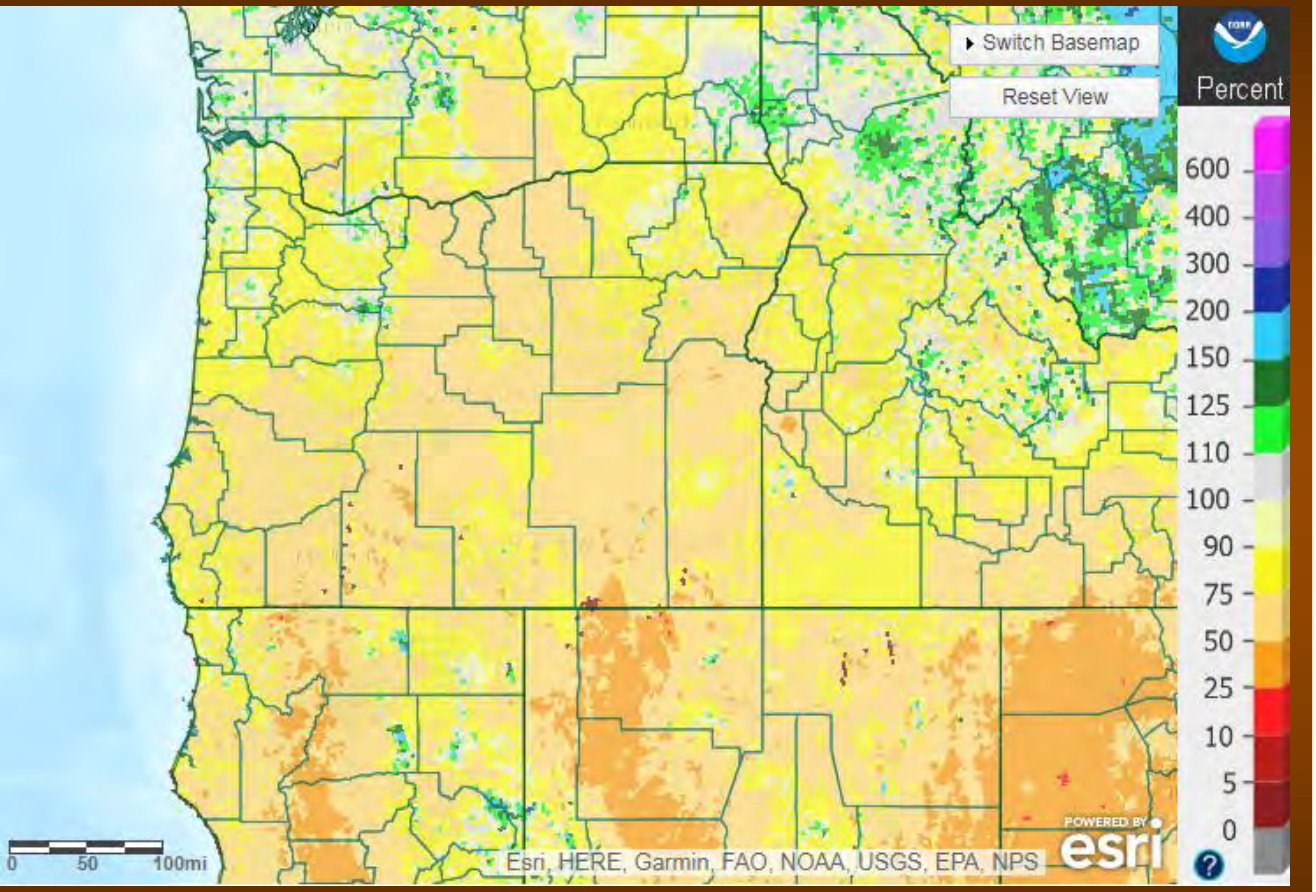
Prepared by:
USDA/NRCS National Water and Climate Center
Portland, Oregon
http://www.wcc.nrcs.usda.gov

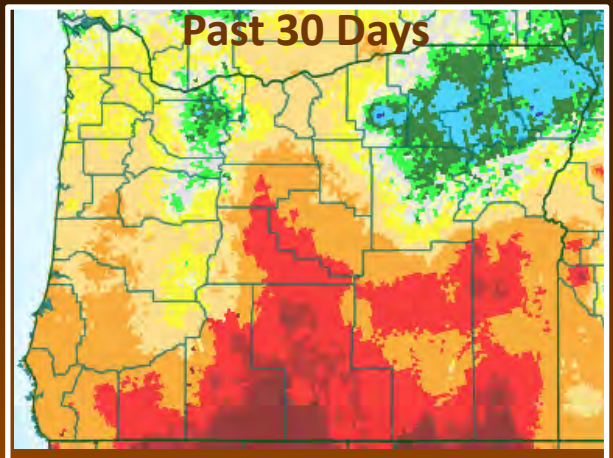
SNOTEL Snow Water Equivalent
November 6, 2018

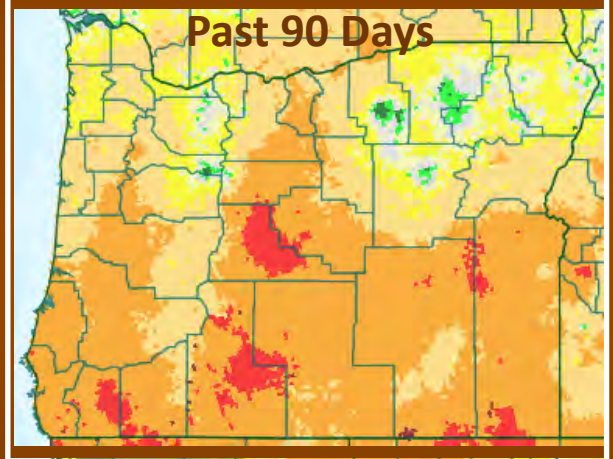


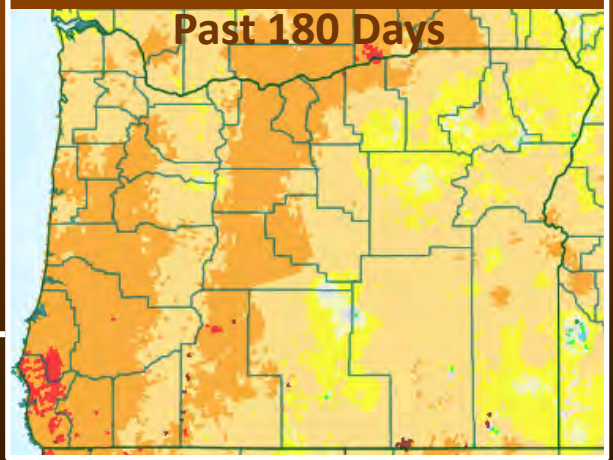
Precipitation % of Average

2018 Water Year







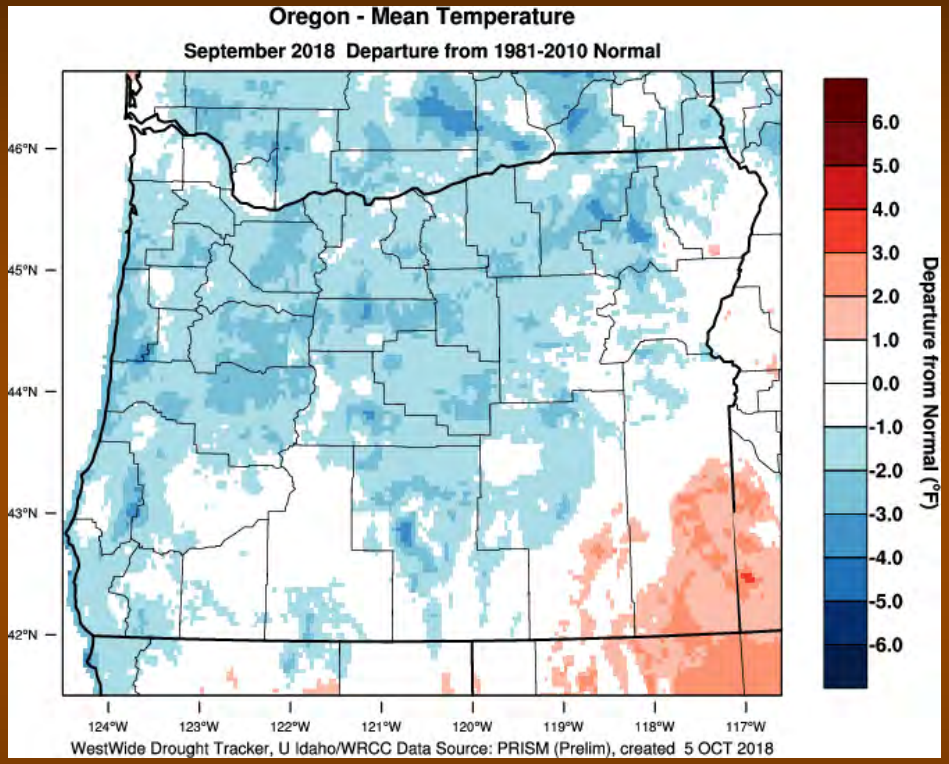


Precipitation Data as of November 6, 2018

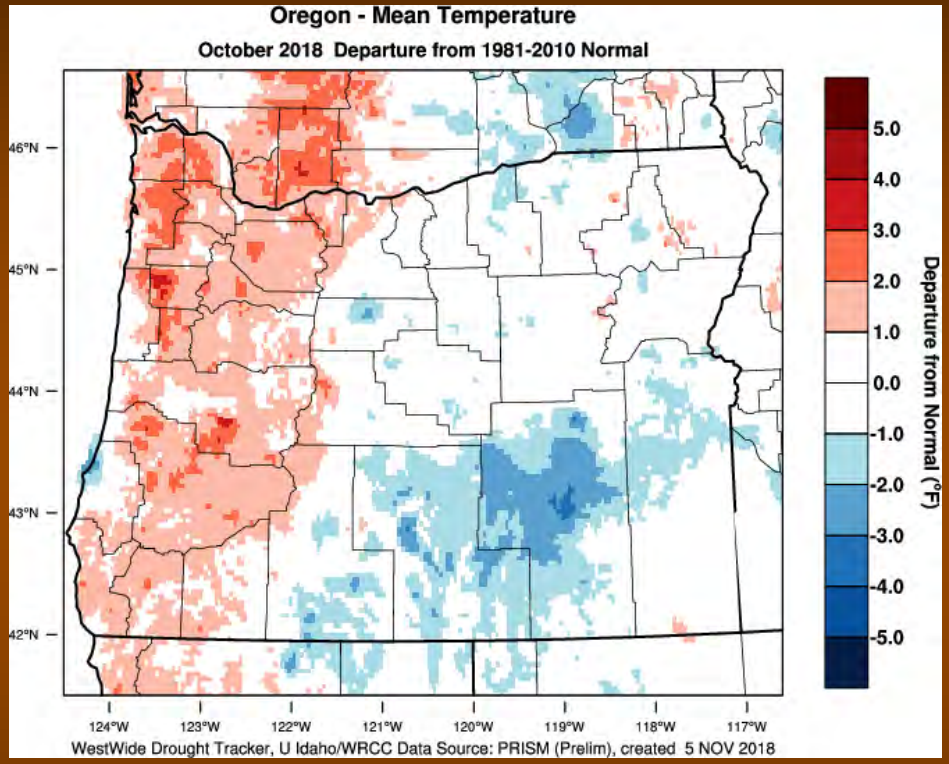
Source: water.weather.gov/precip/index.php?location_type=wfo&location_name=pqr

Recent Temperatures

September 2018

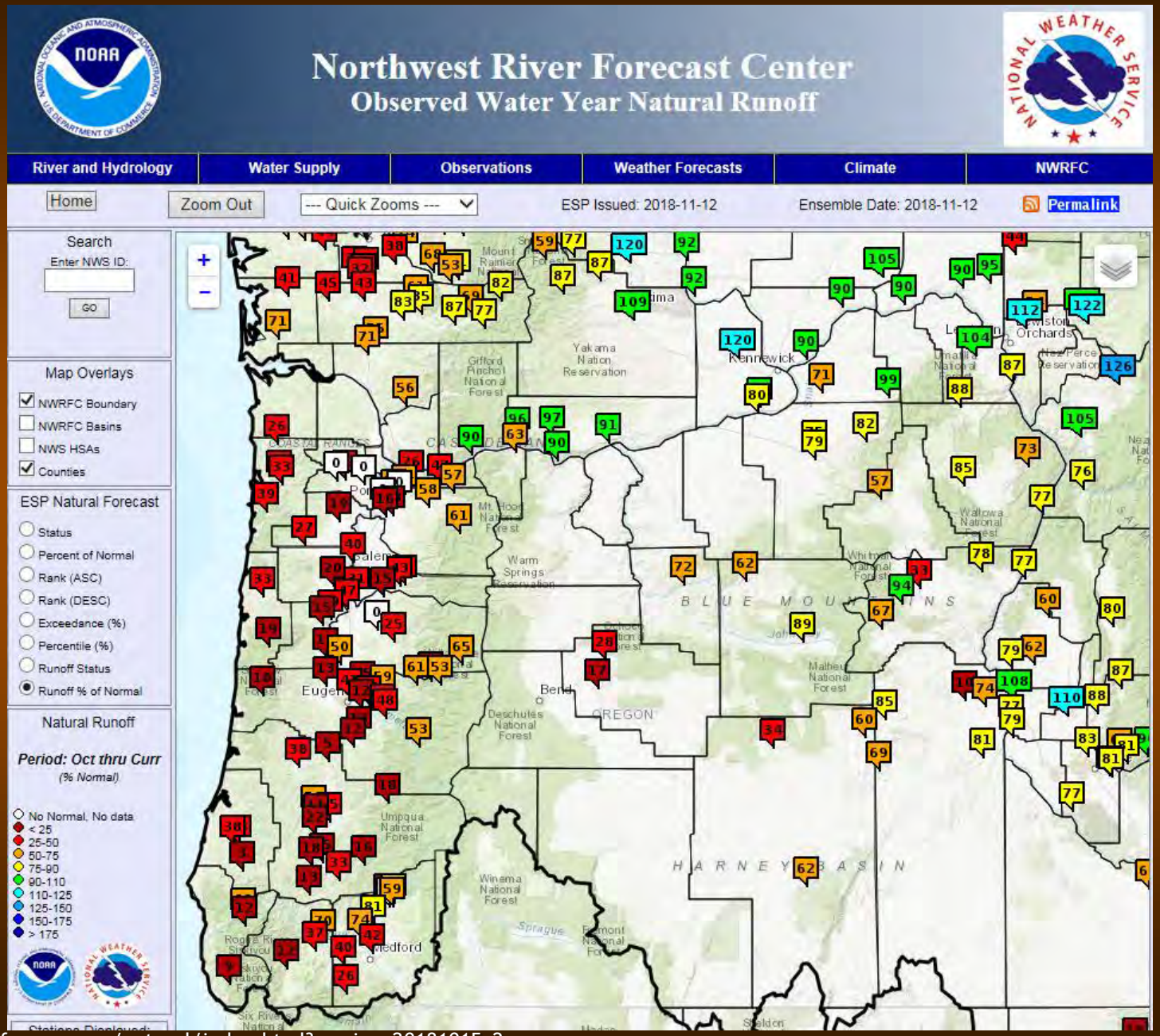


October 2018



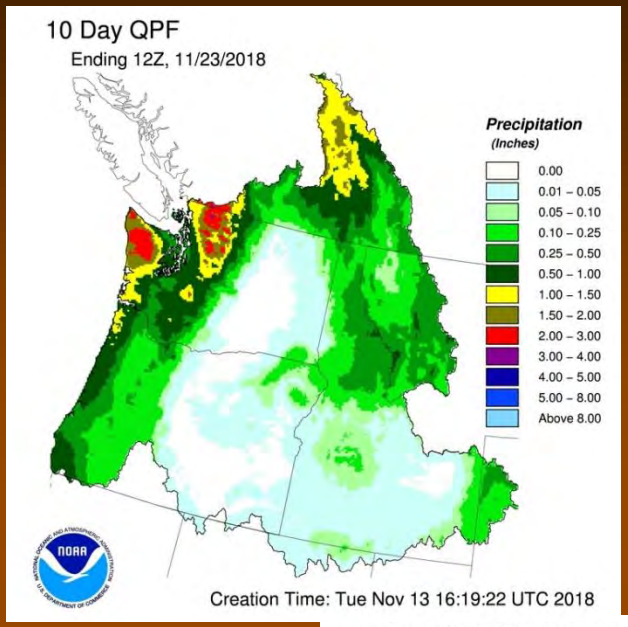
https://wrcc.dri.edu/wwdt/current.php?folder=mdn1

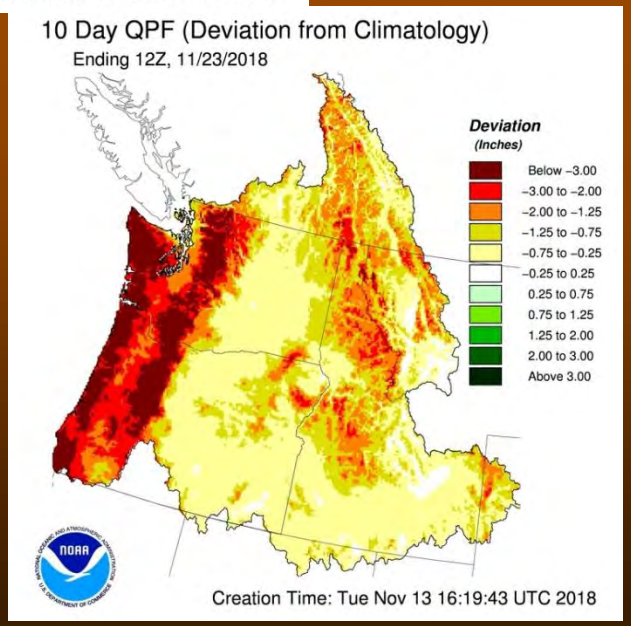
Observed WY19 Runoff thus far

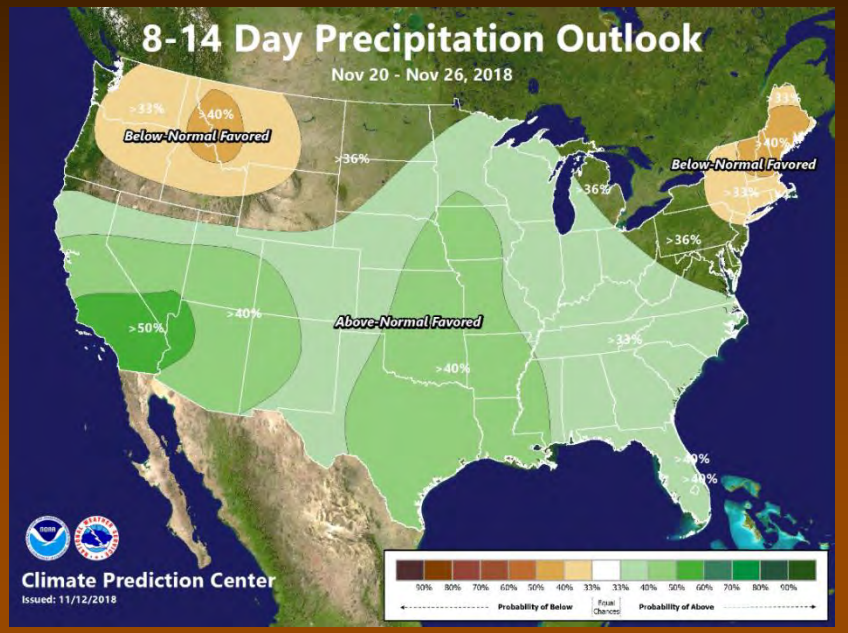


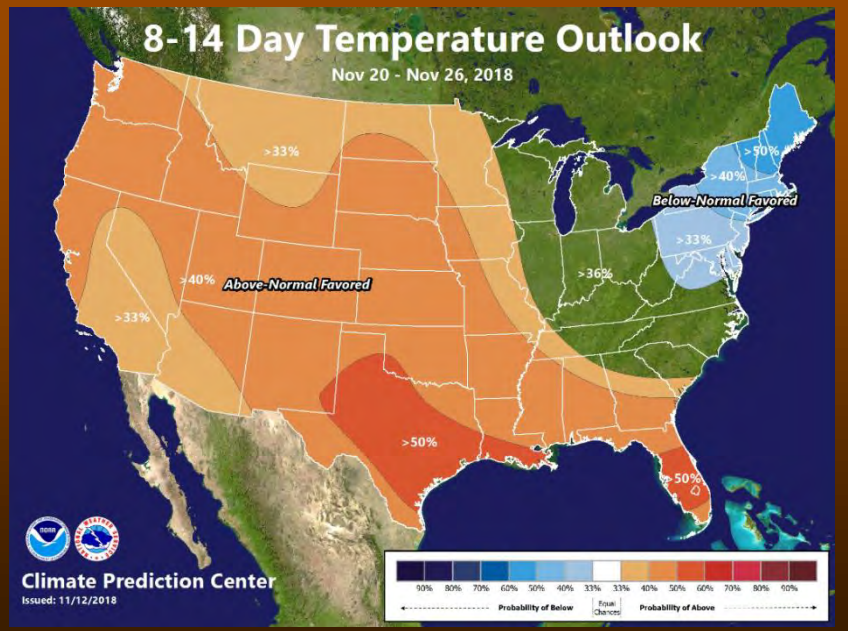
https://www.nwrfc.noaa.gov/natural/index.html?version=20181015v2

Mid-November Outlook





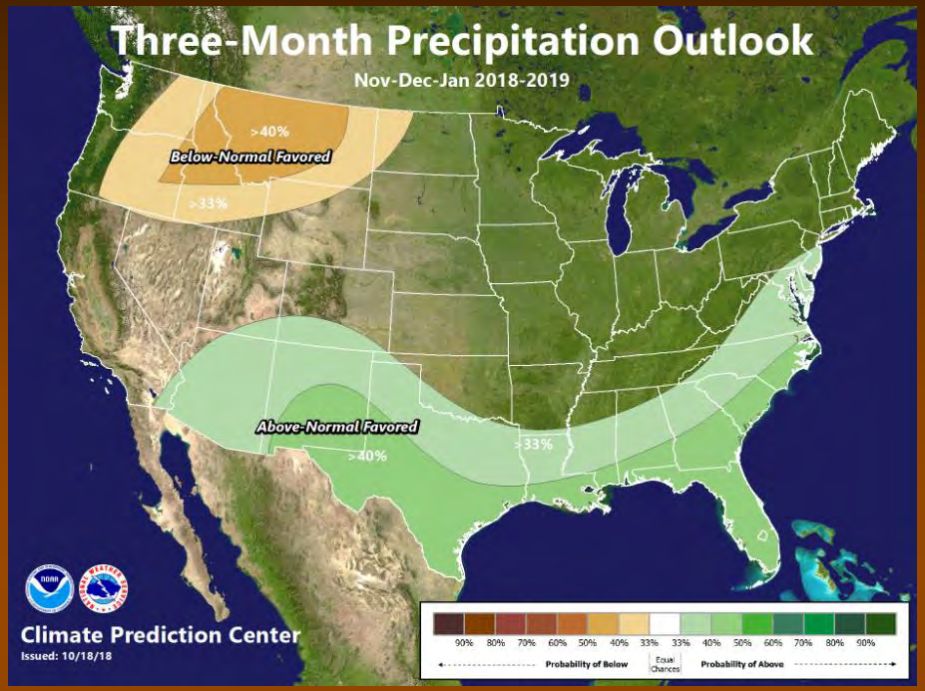


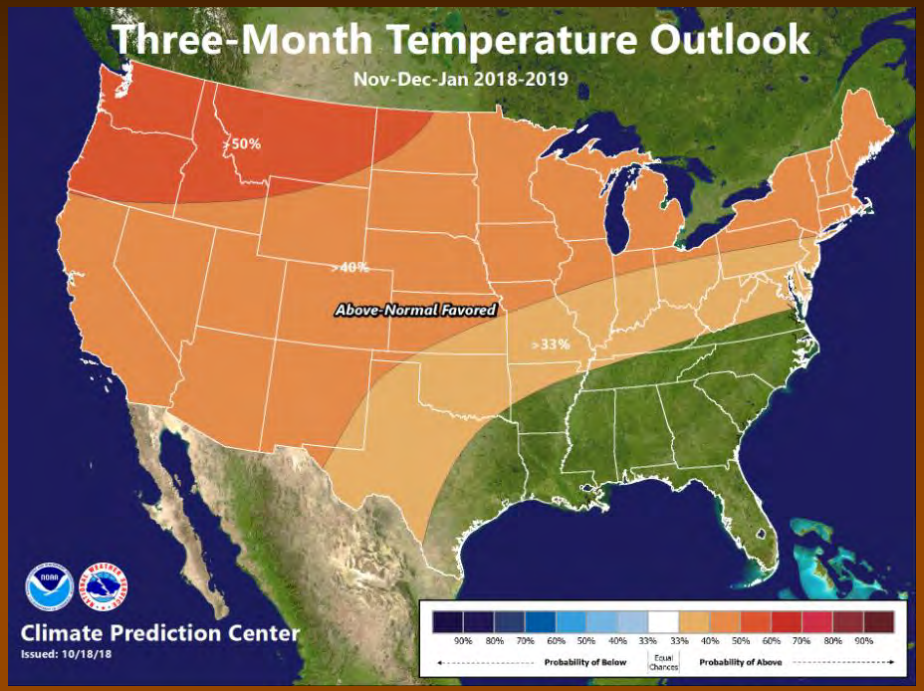


https://www.nwrfc.noaa.gov/water_supply/wy_summary/wy_summary.php?tab=3

https://www.wrh.noaa.gov/images/sto/GIS_NEW/

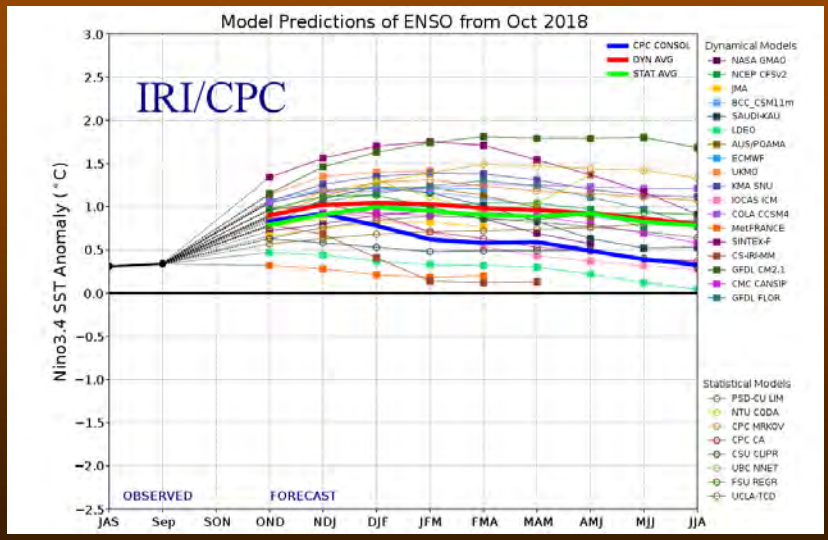
Outlook for November 2018 - January 2019





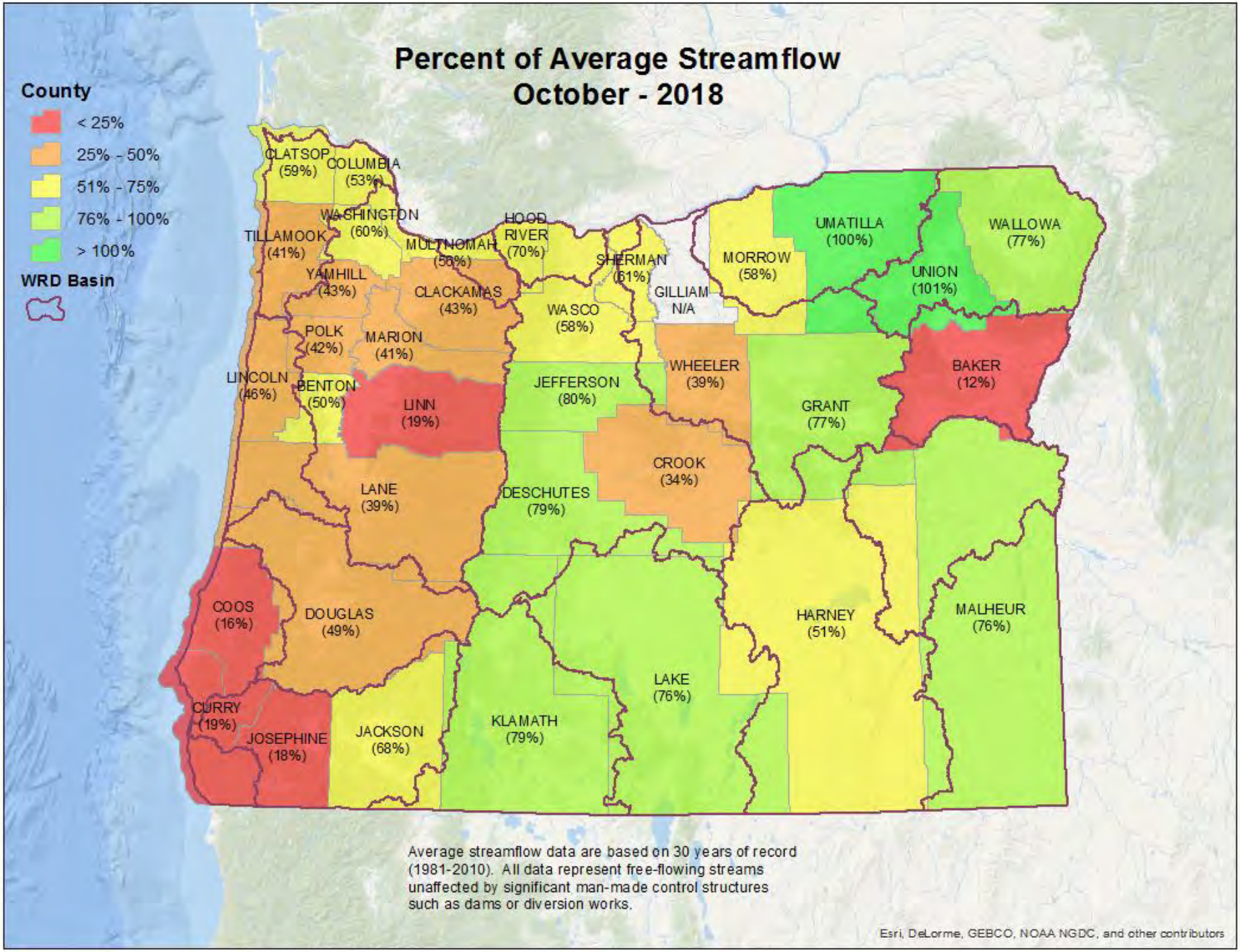
https://www.wrh.noaa.gov/images/sto/GIS_NEW/

ENSO Prediction based on consensus of model guidance

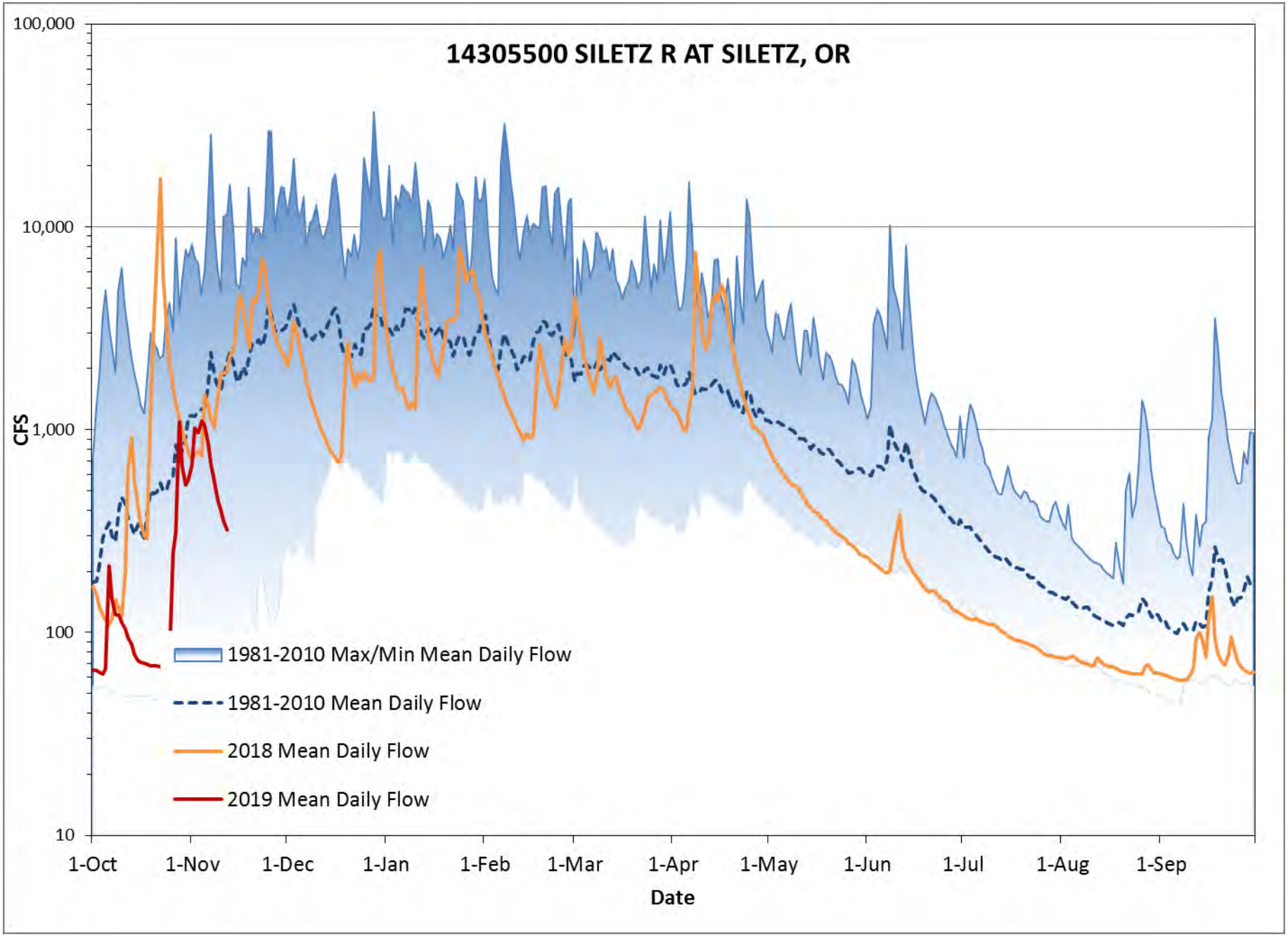


iri.columbia.edu/our-expertise/climate/forecasts/enso/current/

Percent of Average Streamflow
October - 2018



Average streamflow data are based on 30 years of record (1981-2010). All data represent free-flowing streams unaffected by significant man-made control structures such as dams or diversion works.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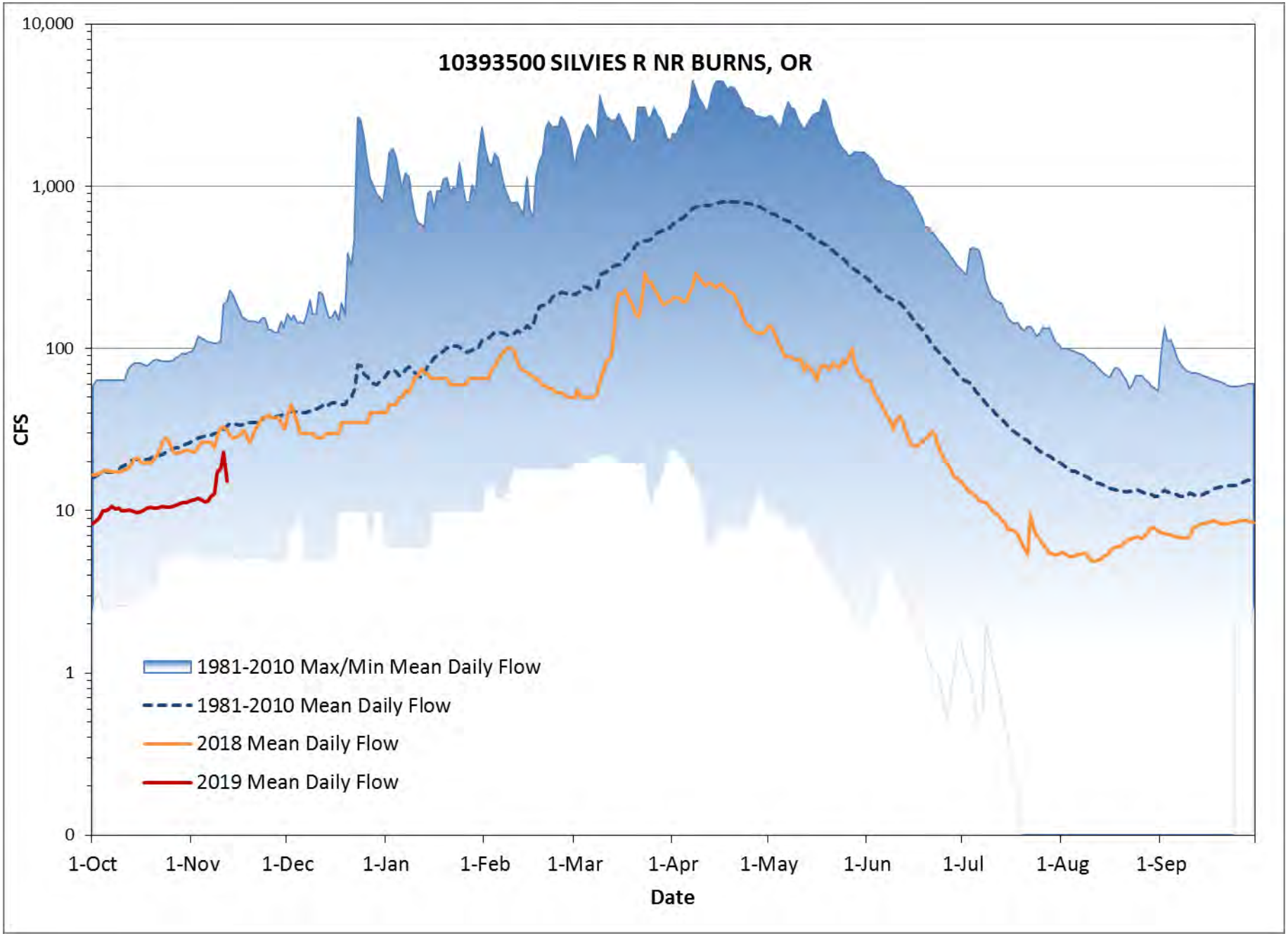
Date
1981-2010 Max/Min Mean Daily Flow
1981-2010 Mean Daily Flow
2018 Mean Daily Flow
2019 Mean Daily Flow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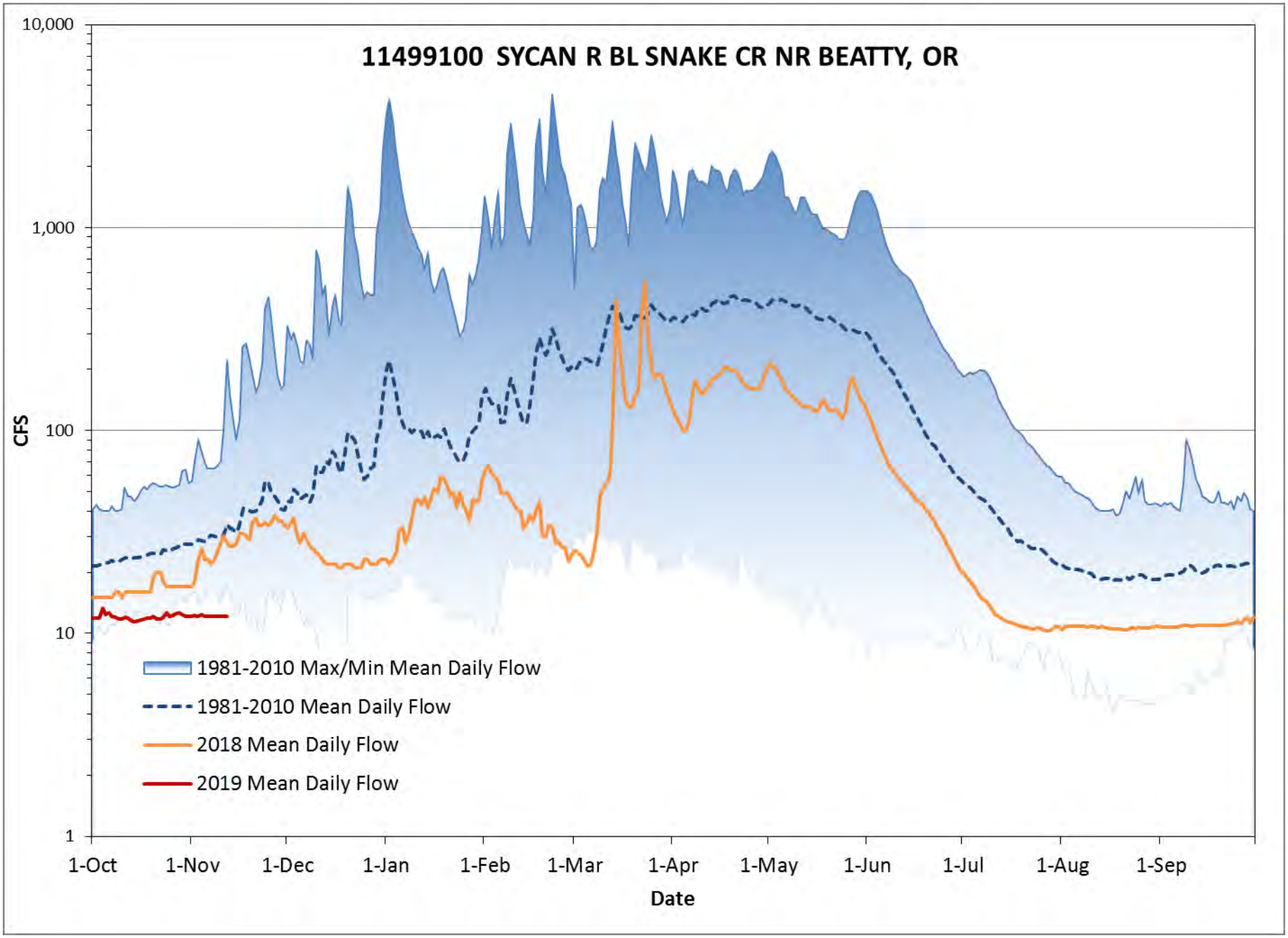
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1981-2010 Max/Min Mean Daily Flow
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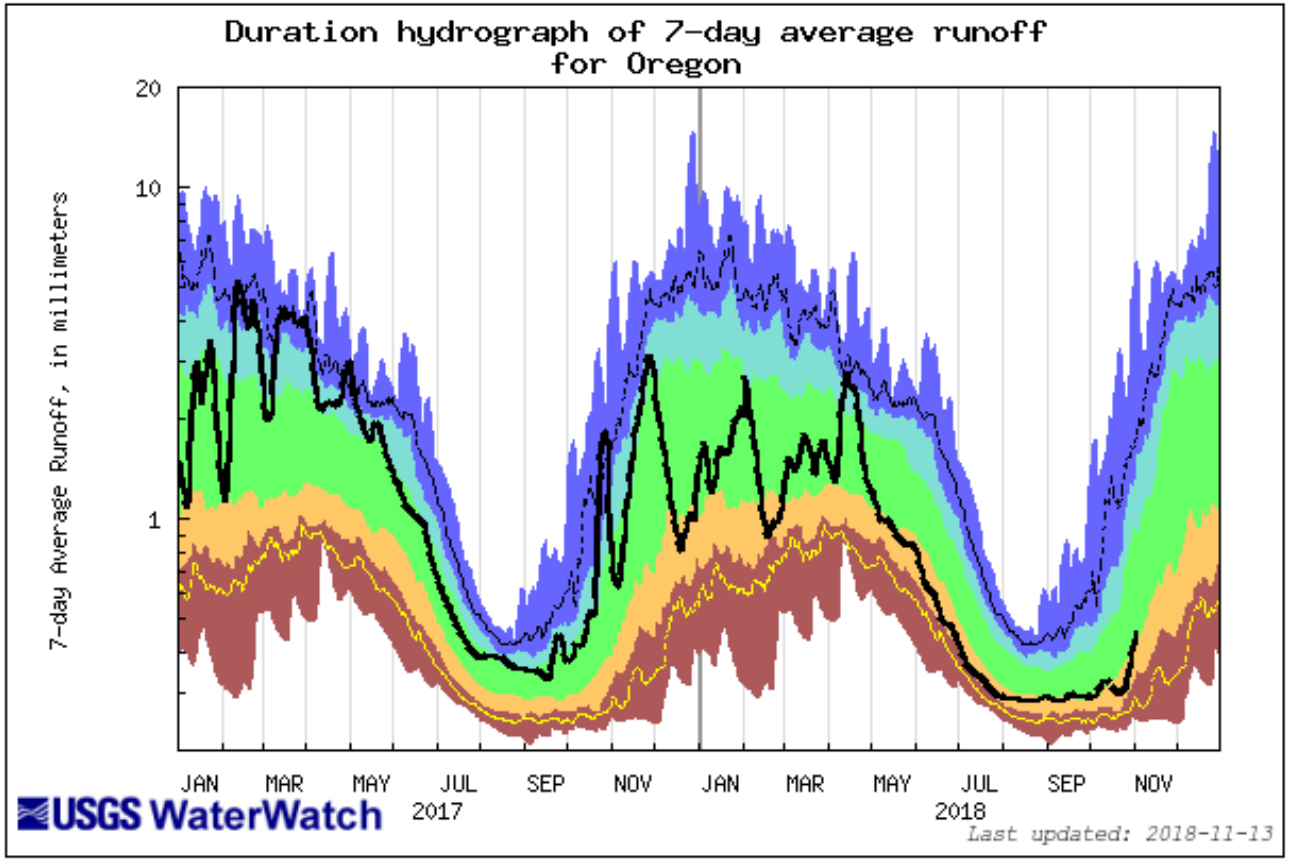


Explanation - Percentile classes							
lowest-10th percentile	5	10-24	25-75	76-90	95	90th percentile -highest	Runoff
Much below Normal		Below normal	Normal	Above normal	Much above normal		

Power Point “USGS Update on Surface Water Conditions”

By: Marc Stewart & Carrie Boudreau USGS ORWSC

Water Availability Report By: Tiffany Rae Jacklin USGS ORWSC

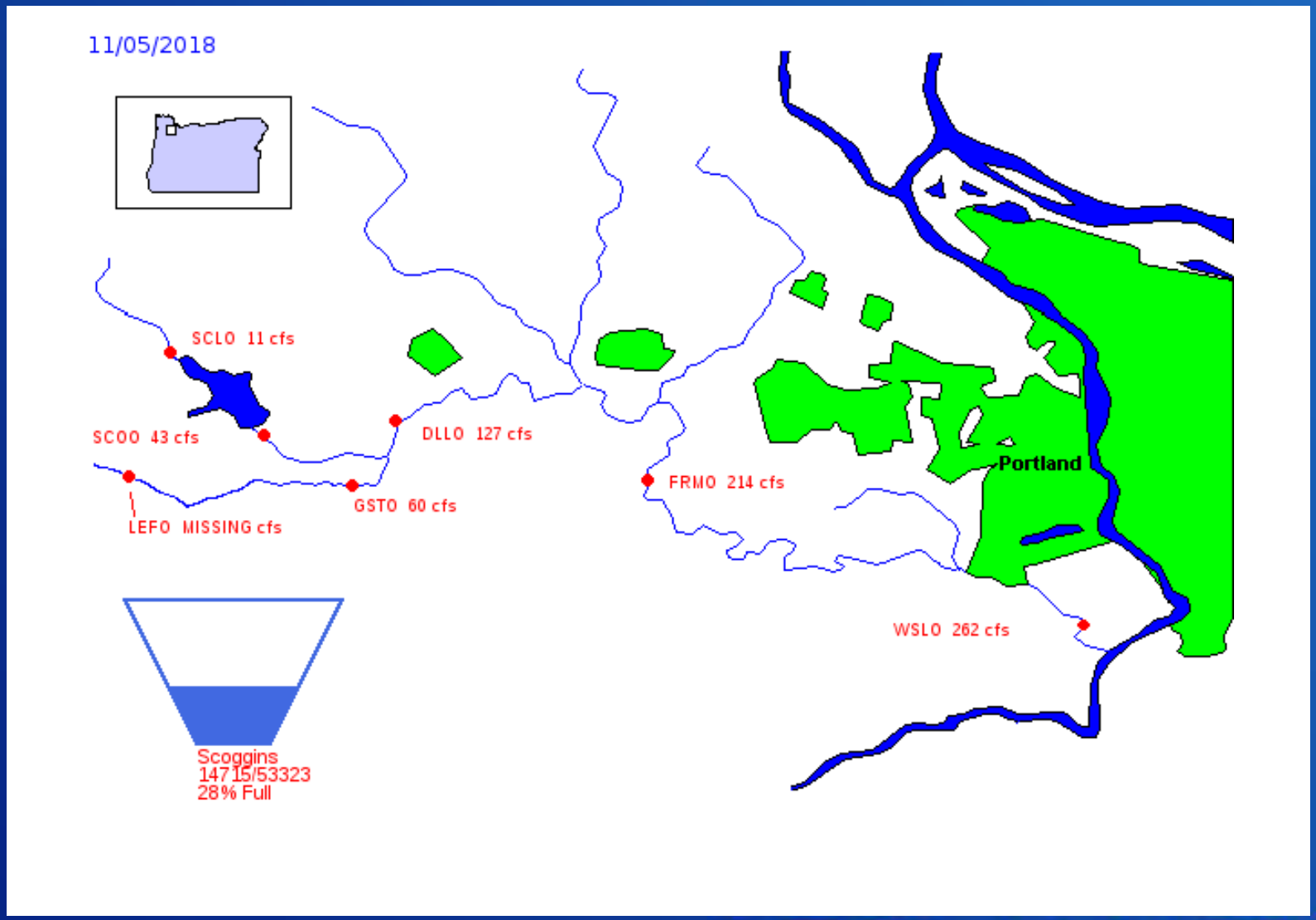
USGS

Created: Tue Nov 13 12:37:18 2018

Rogue Basin Teacup Diagram

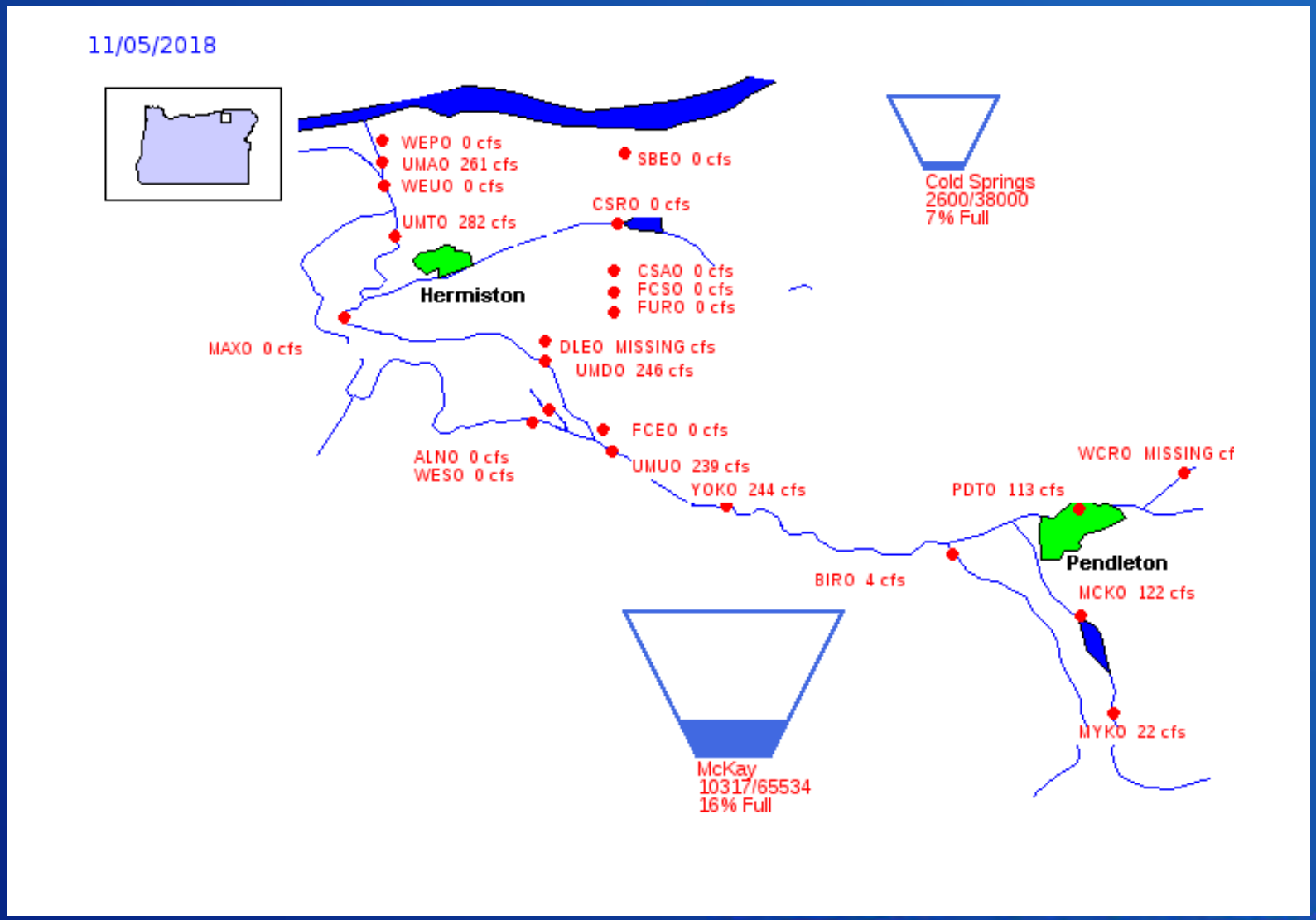
Created: Tue Nov 13 11:25:21 2018
WCD: Water Control Diagram
Project numbers: percent full / percent above WCD, where
percent full = (current storage - minimum conservation storage) / (maximum conservation storage - minimum conservation storage)
percent above water control diagram = (current storage - WCD storage) / (maximum conservation storage - minimum conservation storage)

Tualatin River Basin



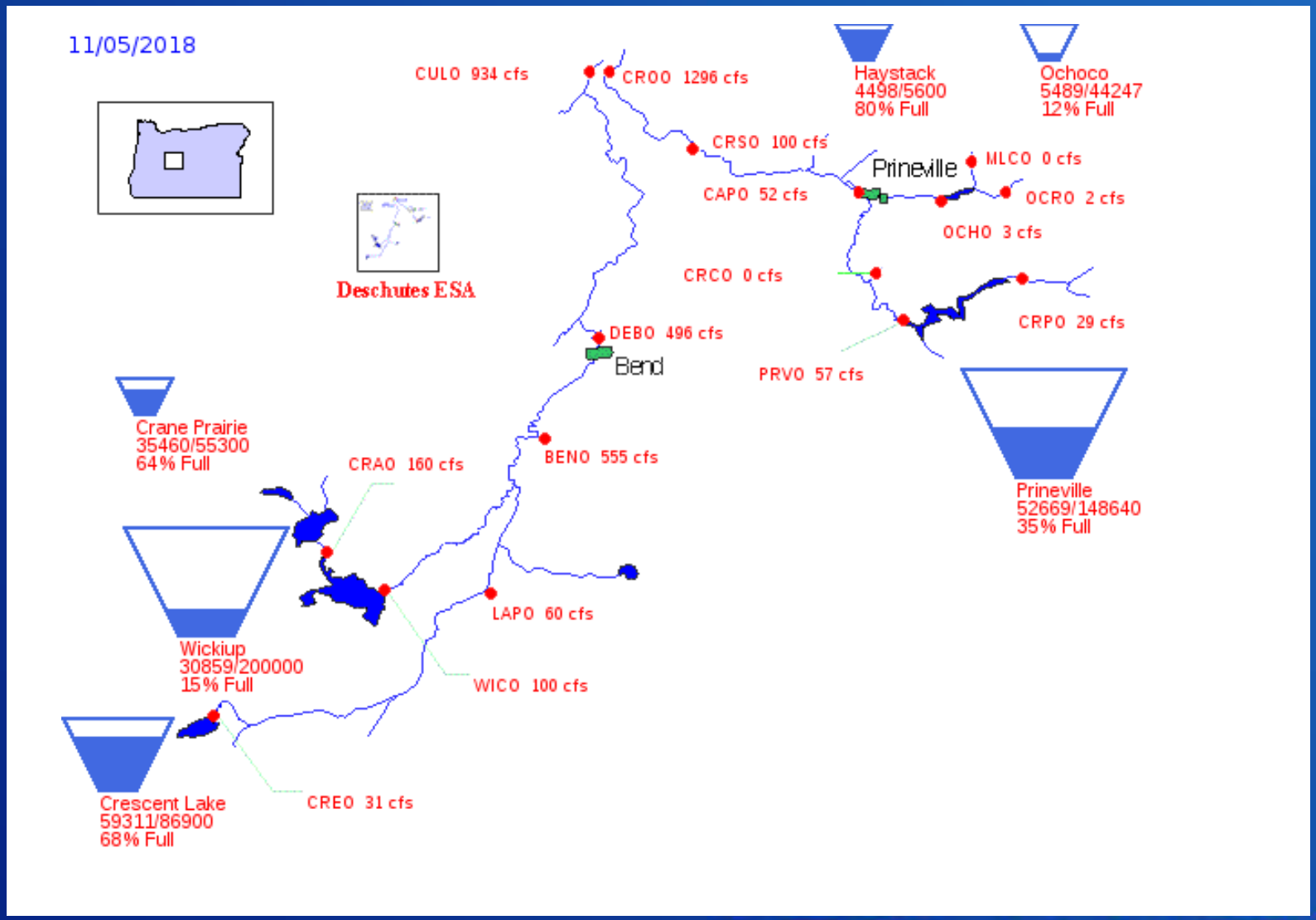
RECLAMATION

Umatilla River Basin



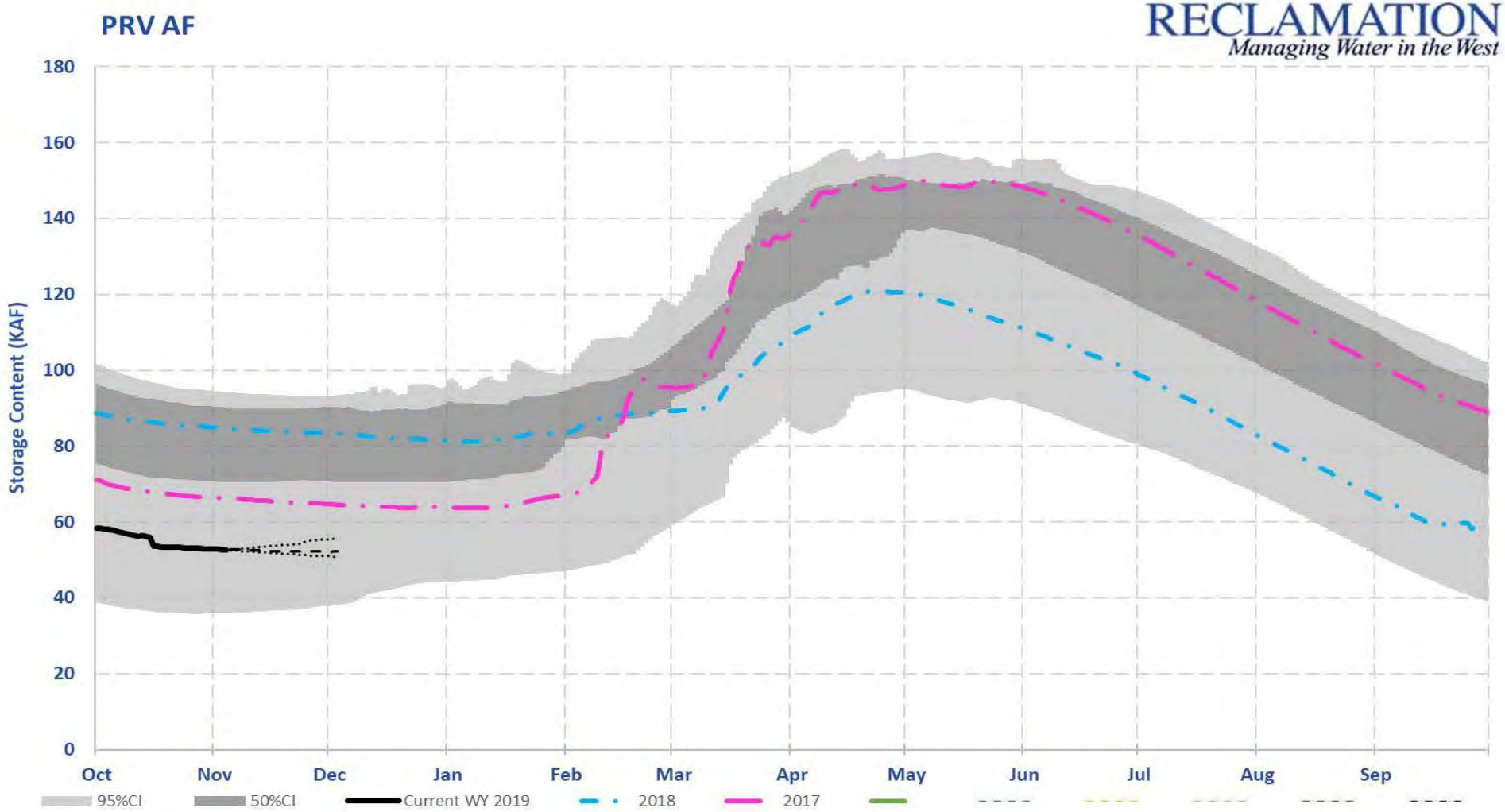
RECLAMATION

Deschutes River Basin



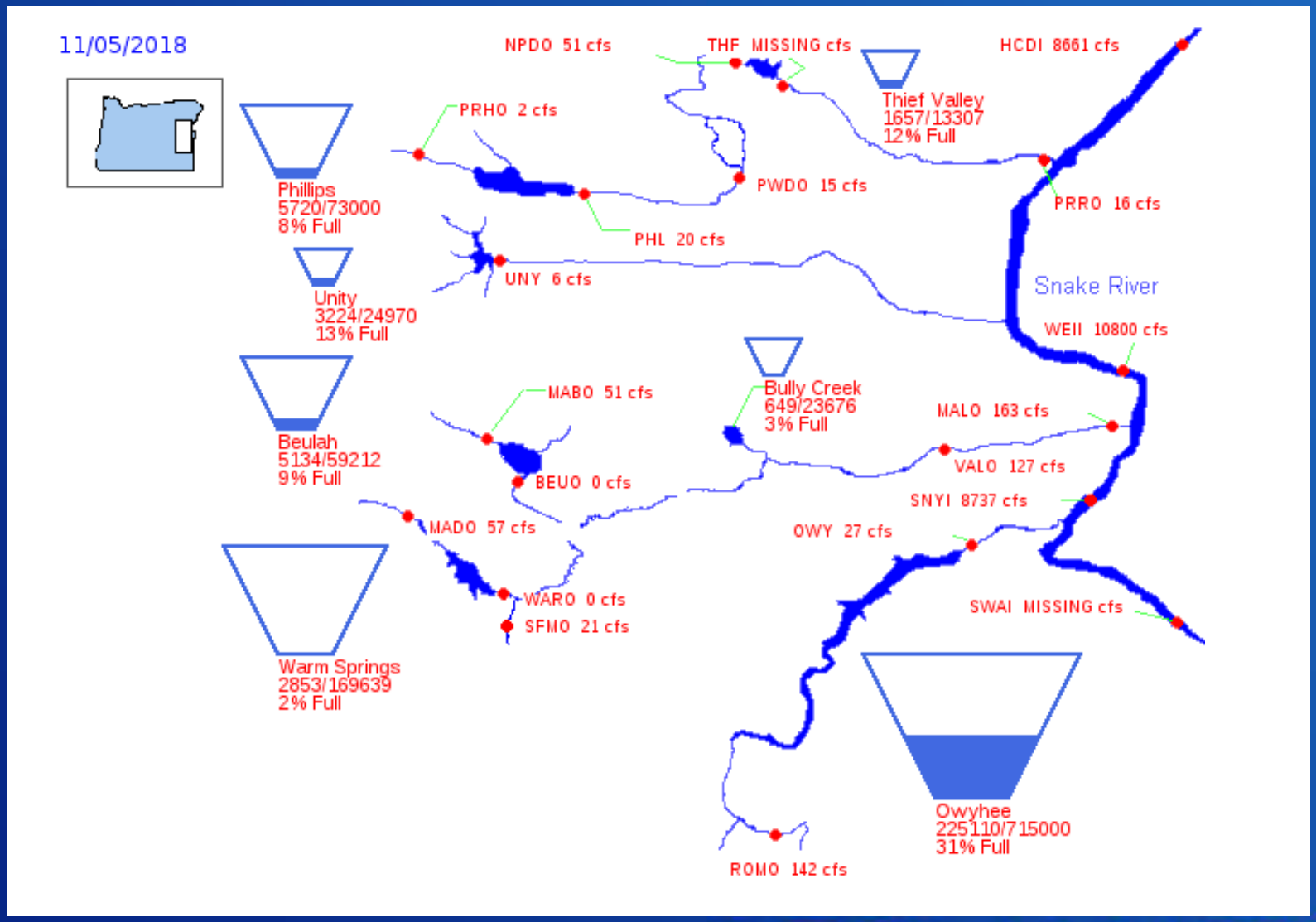
RECLAMATION

Deschutes River Basin: Prineville



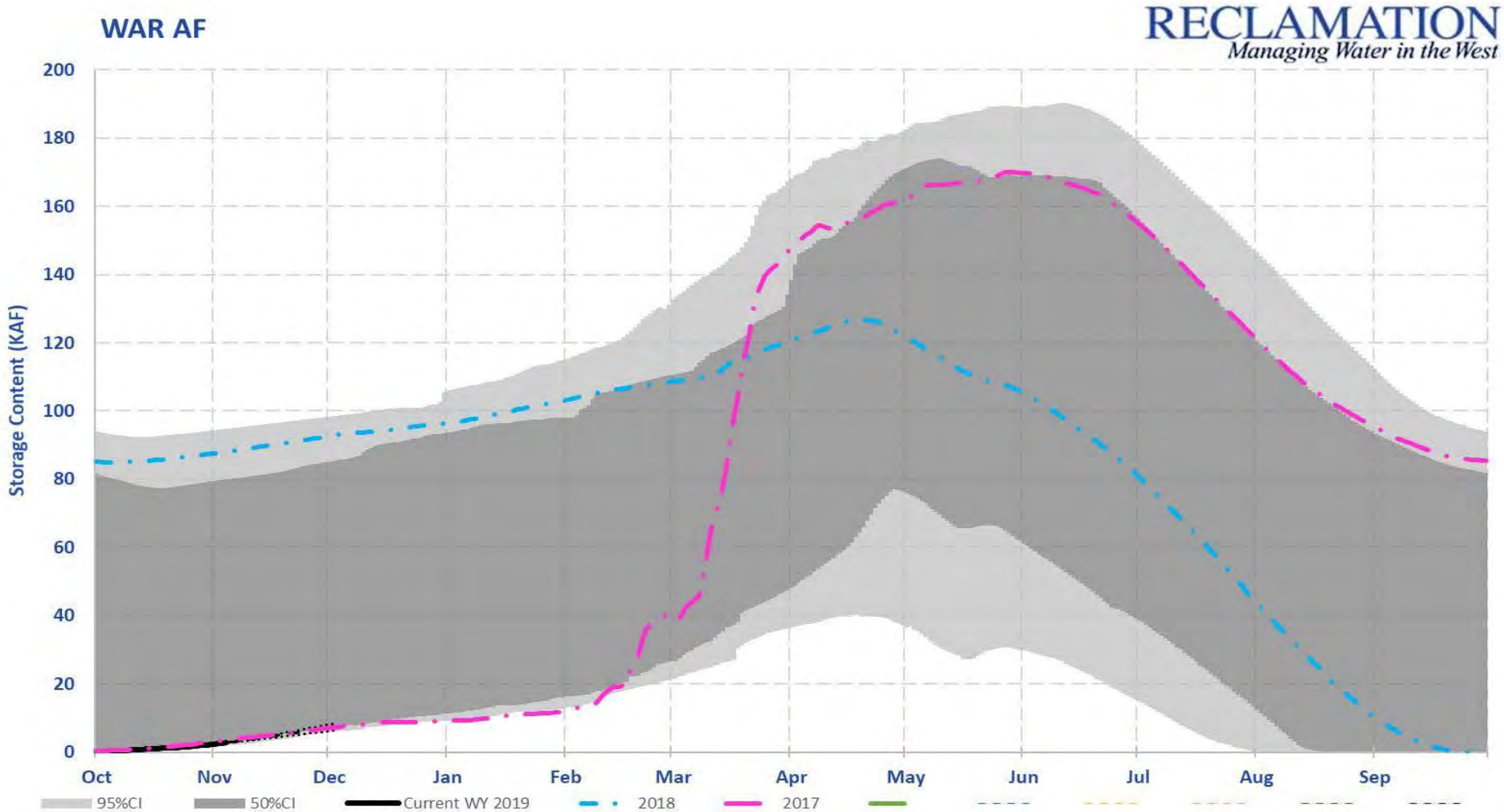
RECLAMATION

Southeastern Oregon



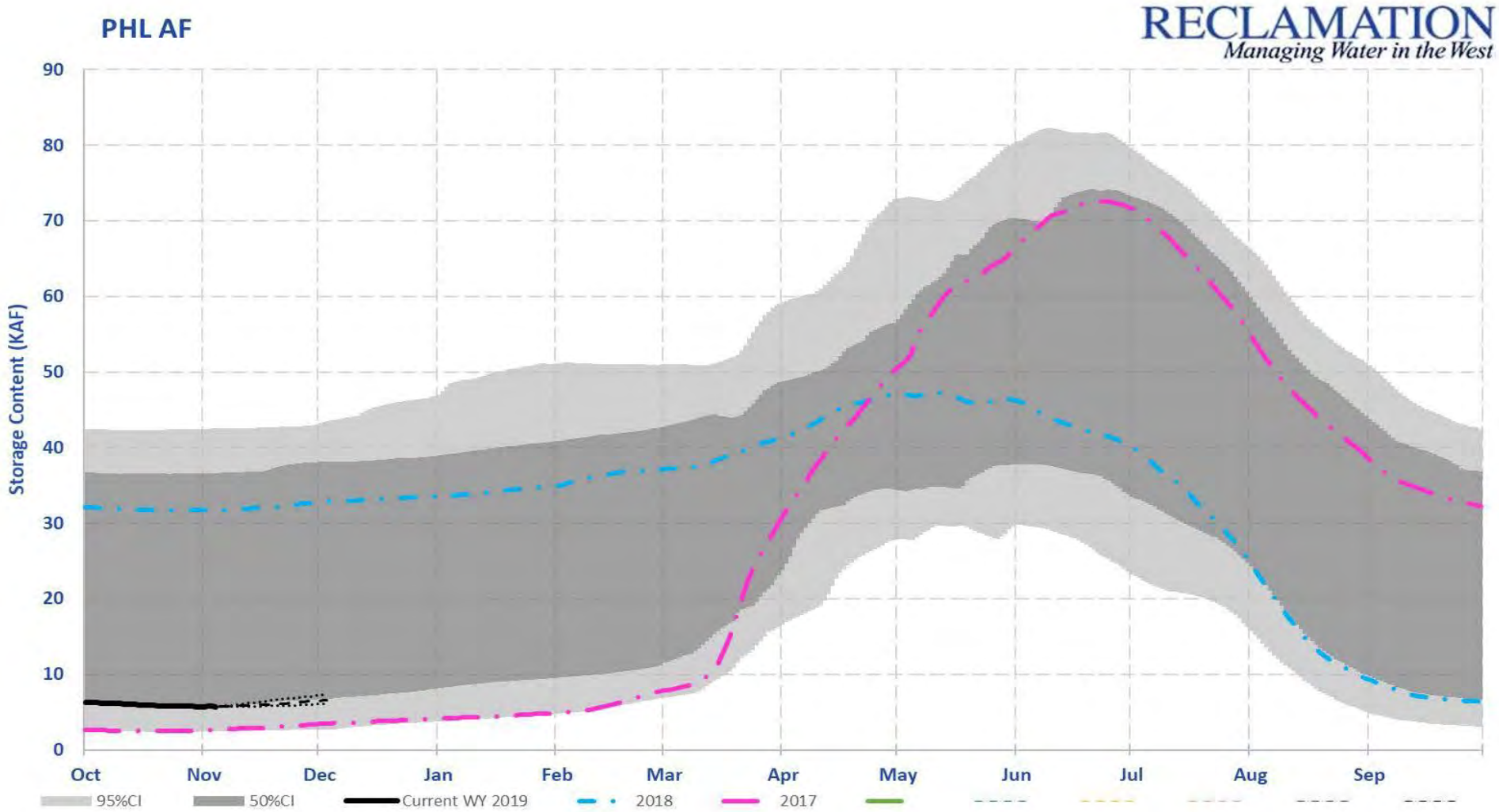
RECLAMATION

Malheur River Basin: Warm Springs



RECLAMATION

Powder River Basin: Phillips



RECLAMATION

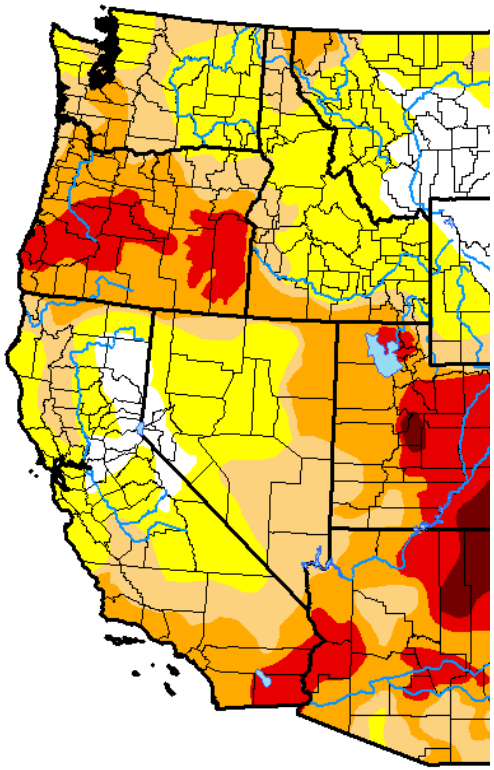
Drought Monitor

U.S. Drought Monitor
West

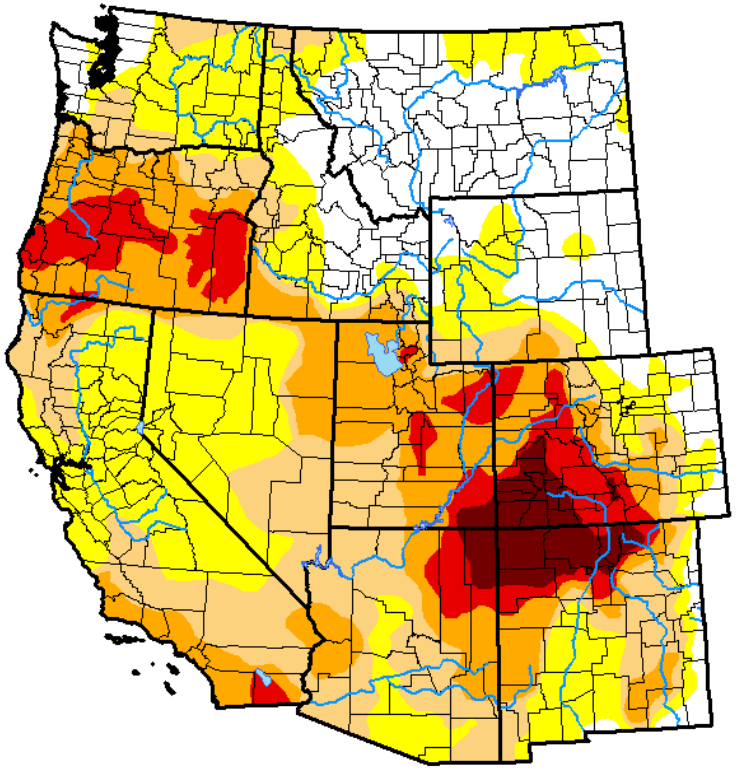
October 2, 2018
(Released Thursday, Oct. 4, 2018)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

None	D0-D4	D1-D4	D2-D4	D3-D4	D4



U.S. Drought Monitor
West



November 6, 2018
(Released Thursday, Nov. 8, 2018)
Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	21.15	78.85	50.95	29.55	10.95	3.39
Last Week 10-30-2018	21.83	78.17	52.75	31.31	11.80	3.42
3 Months Ago 08-07-2018	21.77	78.23	56.53	35.94	15.89	3.77
Start of Calendar Year 01-02-2018	48.76	51.24	29.03	8.60	1.52	0.00
Start of Water Year 09-25-2018	13.91	86.09	59.57	39.68	18.15	4.36
One Year Ago 11-07-2017	61.38	38.62	14.52	3.94	1.52	0.00

Intensity:

- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- 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:
David Simeral
Western Regional Climate Center

http://droughtmonitor.unl.edu/

Thank you.