

Oregon Water Supply Availability Committee

December 13, 2016

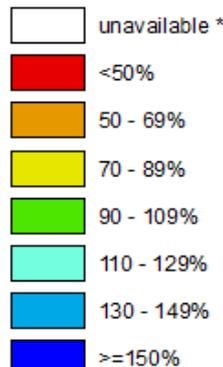


H. Scott Oviatt
Snow Survey Supervisory Hydrologist
USDA NRCS Oregon
Scott.Oviatt@or.usda.gov
503-414-3271
<http://www.nrcs.usda.gov/wps/portal/nrcs/main/or/snow/>

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

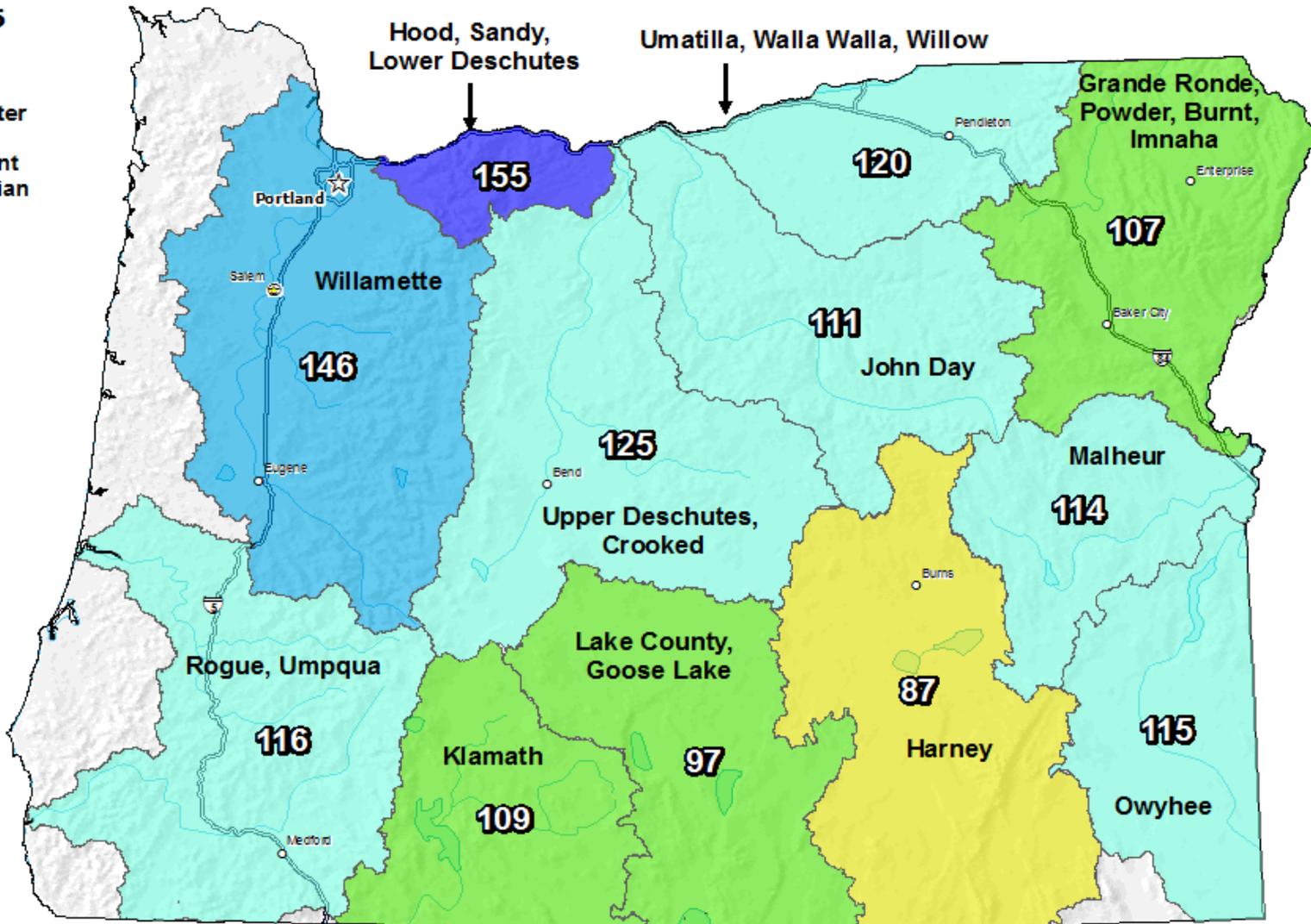
Dec 13, 2016

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

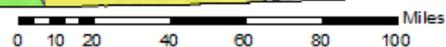


* Data unavailable at time of posting or measurement is not representative at this time of year

Provisional Data
Subject to Revision



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).

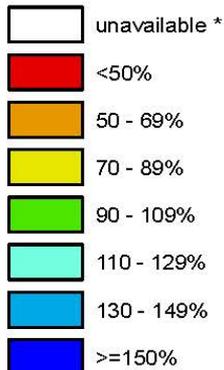


Prepared by:
USDA/NRCS National Water and Climate Center
Portland, Oregon
<http://www.wcc.nrcs.usda.gov>

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

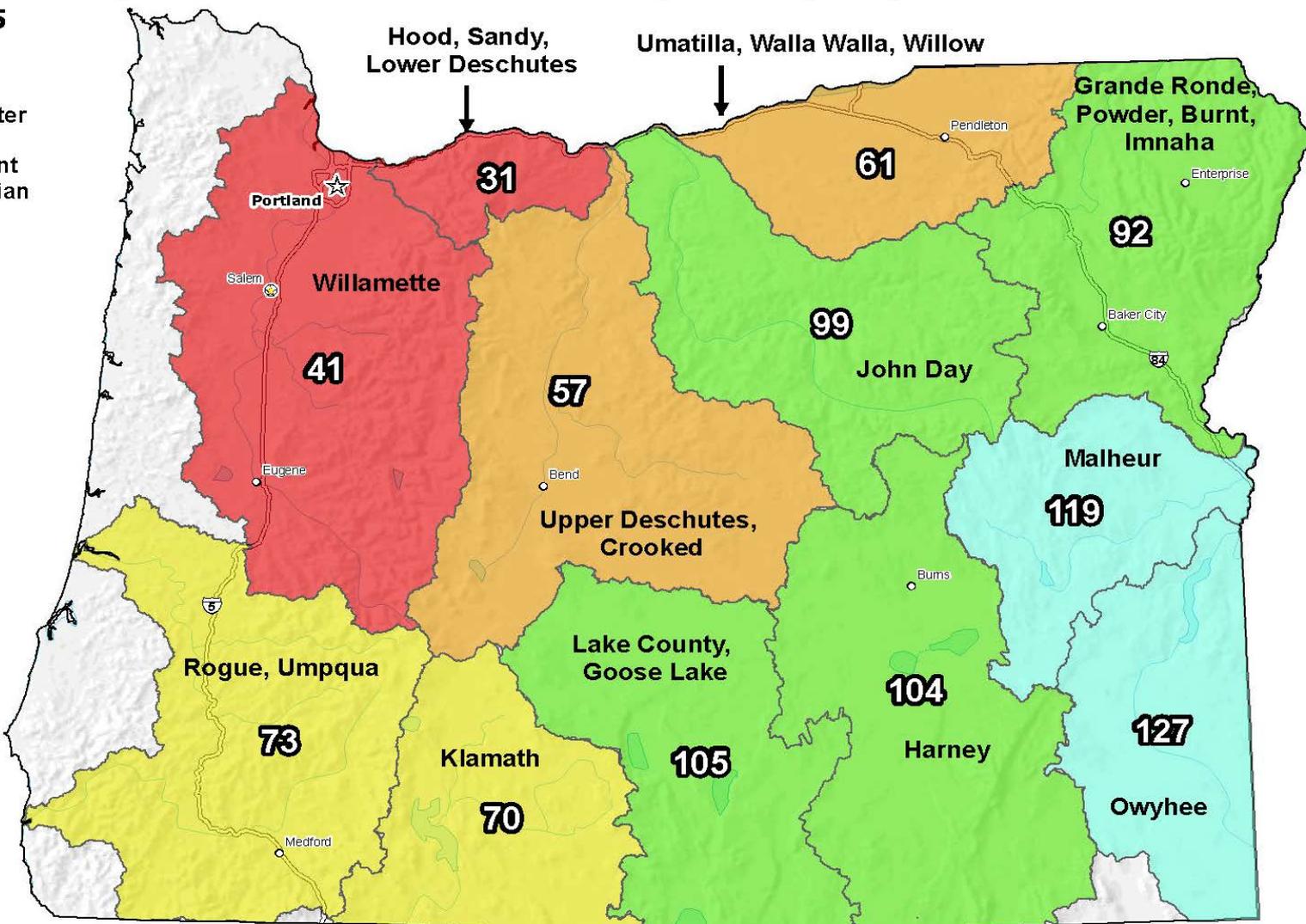
Dec 12, 2015

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

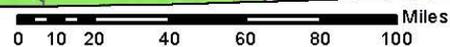


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Subject to Revision**



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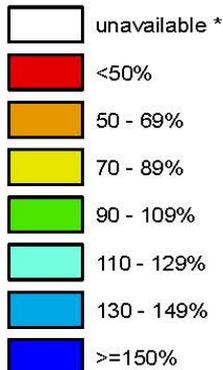


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Oregon SNOTEL Current Snow Water Equivalent (SWE) % of Normal

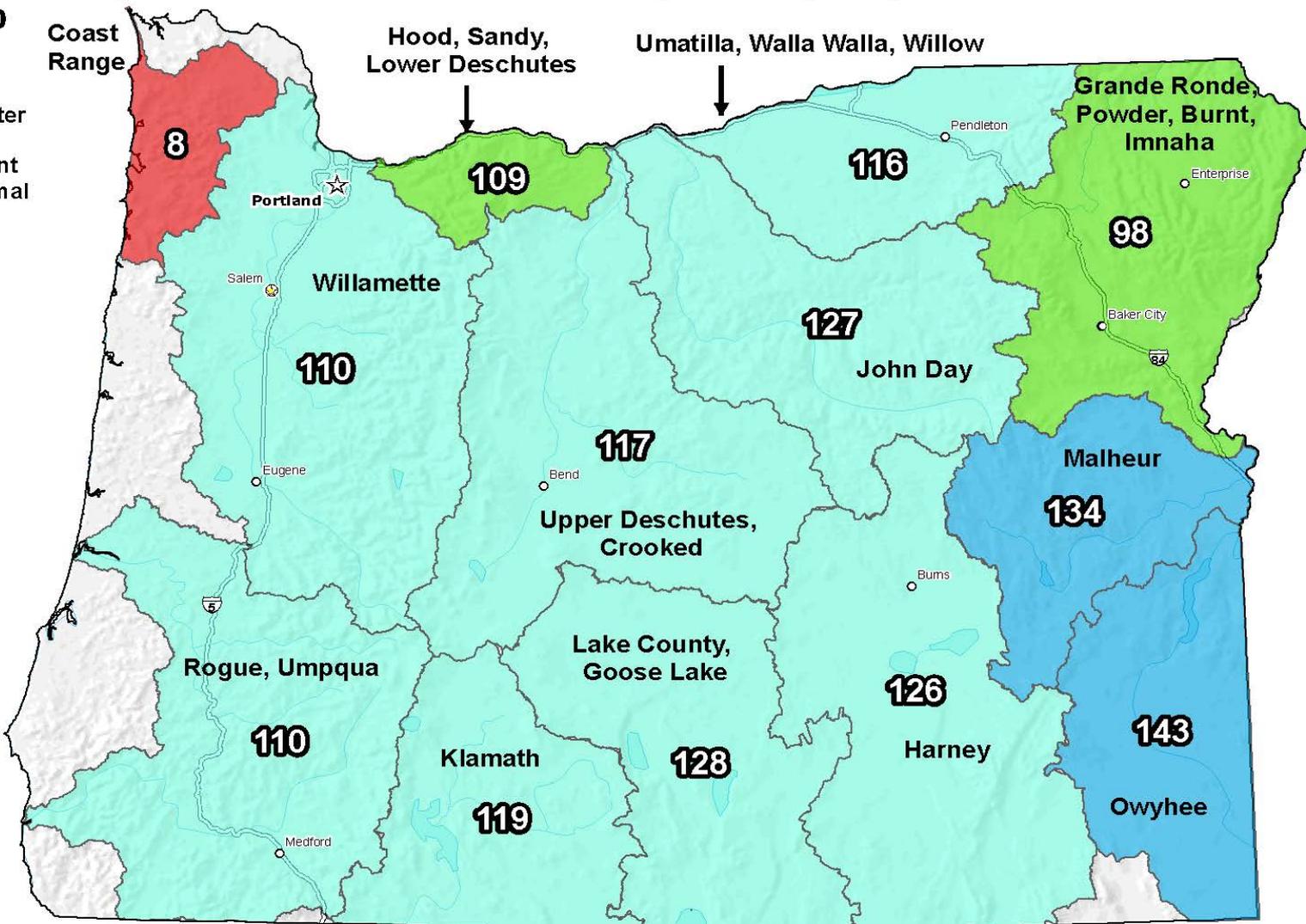
Dec 12, 2010

Current Snow Water Equivalent (SWE) Basin-wide Percent of 1971-2000 Normal

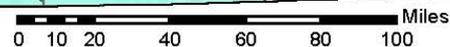


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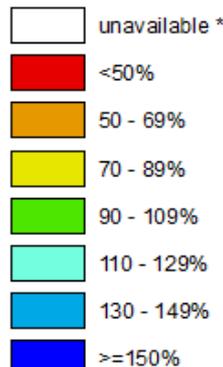


Prepared by the USDA/NRCS National Water and Climate Center
Portland, Oregon <http://www.wcc.nrcs.usda.gov/gis/>
Based on data from <http://www.wcc.nrcs.usda.gov/reports/>
Science contact: Tom.Pagano@por.usda.gov 503 414 3010

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

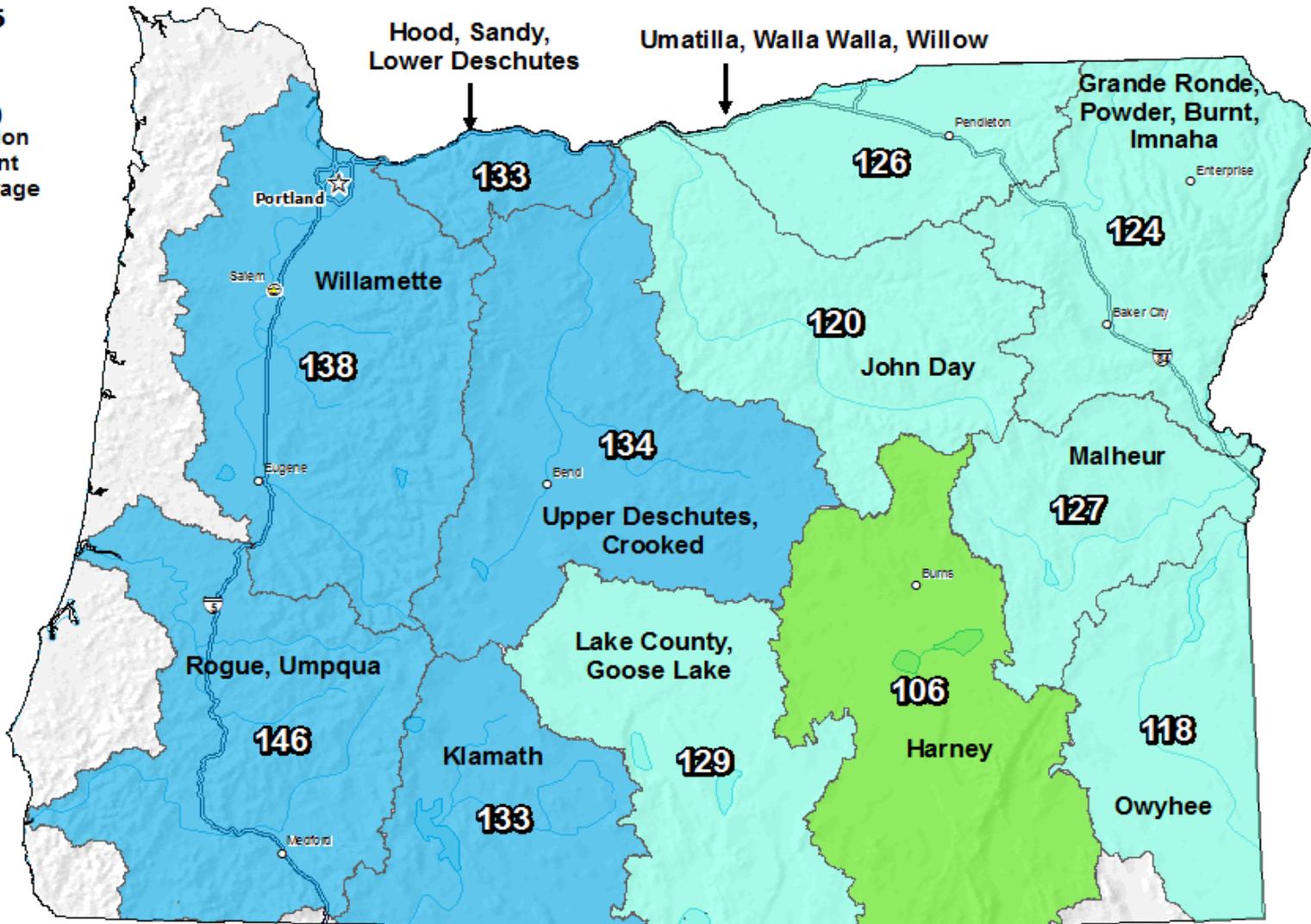
Dec 13, 2016

Water Year (Oct 1) to Date Precipitation Basin-wide Percent of 1981-2010 Average



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

Provisional Data
Subject to Revision



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).

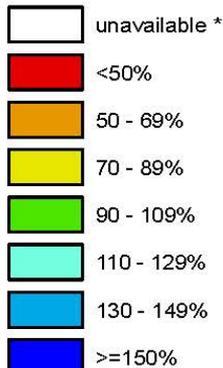
0 10 20 40 60 80 100 Miles

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

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

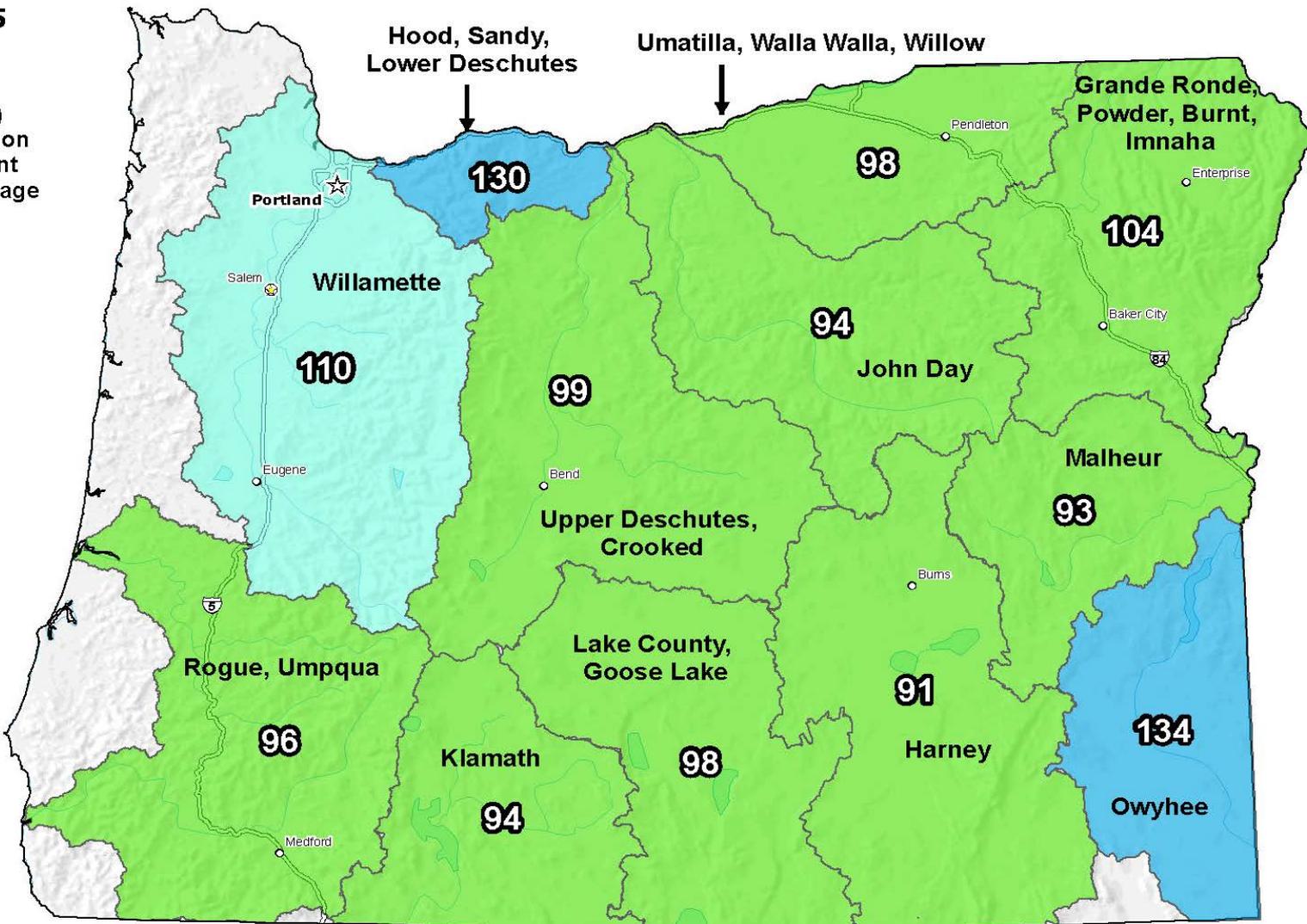
Dec 12, 2015

Water Year (Oct 1) to Date Precipitation Basin-wide Percent of 1981-2010 Average



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Provisional Data
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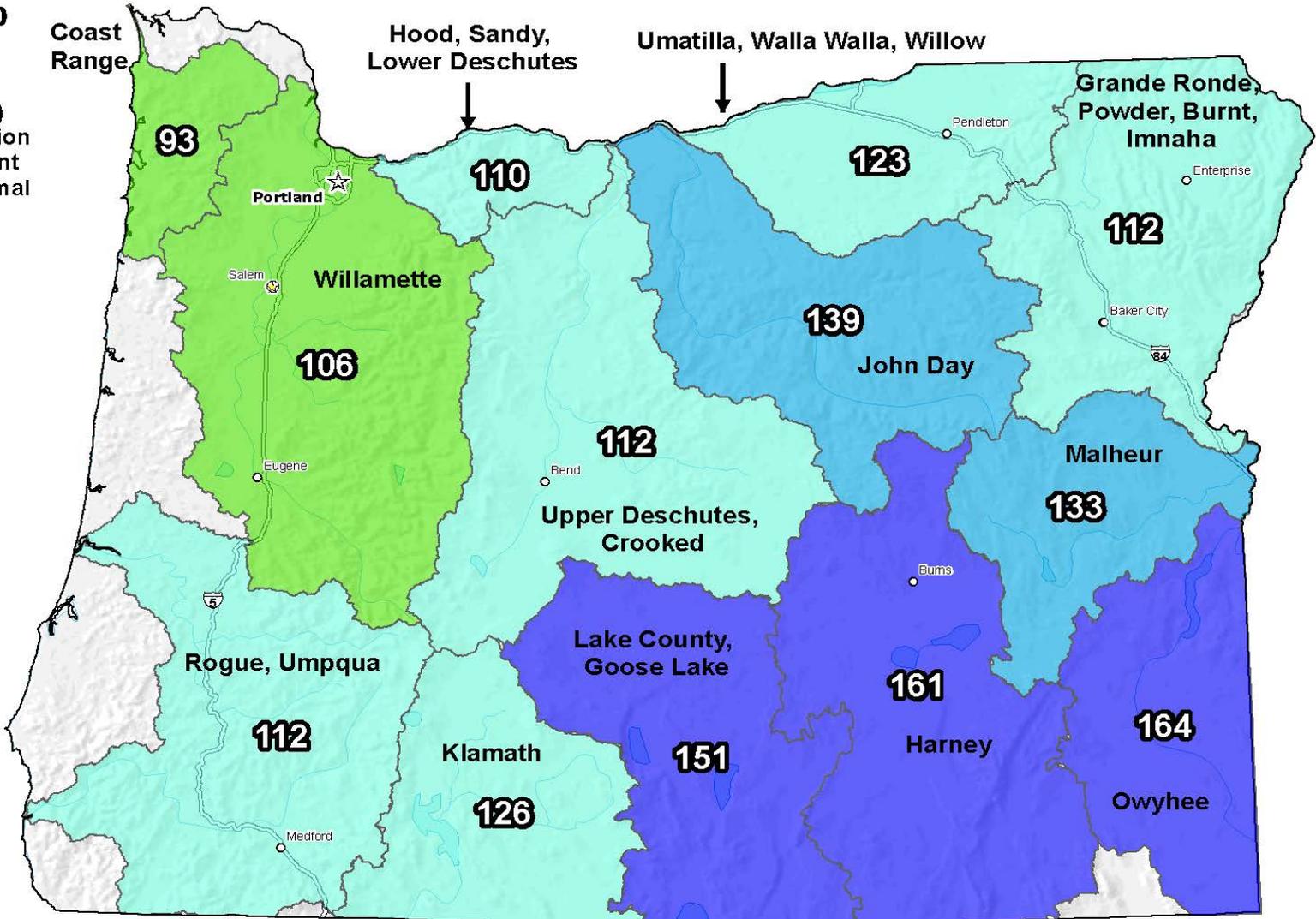
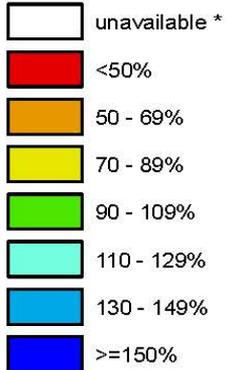


Prepared by:
USDA/NRCS National Water and Climate Center
Portland, Oregon
<http://www.wcc.nrcs.usda.gov>

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

Dec 12, 2010

Water Year (Oct 1) to Date Precipitation Basin-wide Percent of 1971-2000 Normal

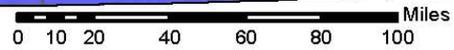


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**Provisional Data
Subject to Revision**

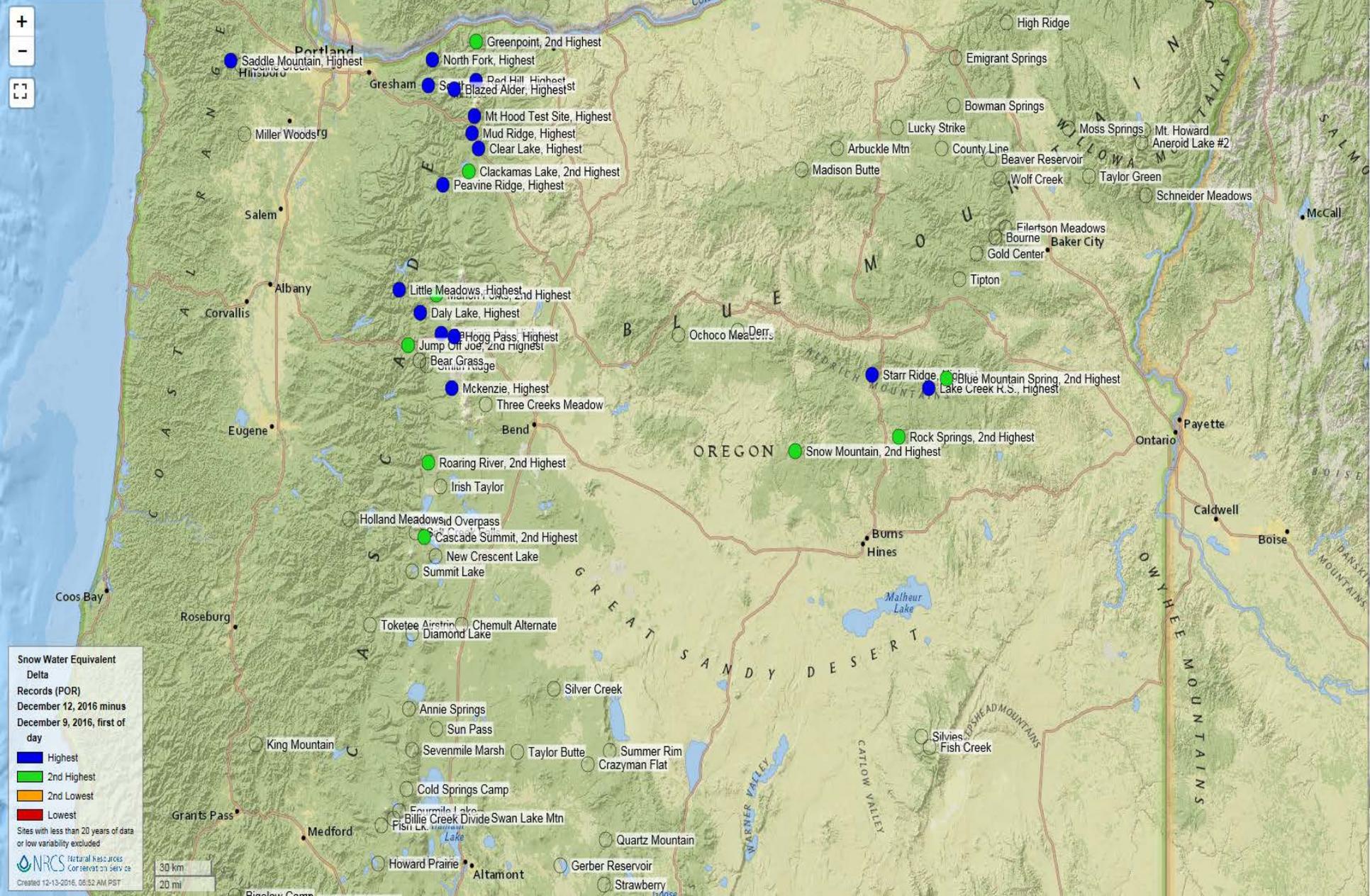


The water year to date precipitation percent of normal represents the accumulated precipitation found at selected SNOTEL sites in or near the basin compared to the average value for those sites on this day. Data based on the first reading of the day (typically 00:00).



Prepared by the USDA/NRCS National Water and Climate Center
Portland, Oregon <http://www.wcc.nrcs.usda.gov/gis/>
Based on data from <http://www.wcc.nrcs.usda.gov/reports/>
Science contact: Tom.Pagano@por.usda.gov 503 414 3010

Selected Stations: 81



Snow Water Equivalent Delta Records (POR)
 December 12, 2016 minus December 9, 2016, first of day

- Highest
- 2nd Highest
- 2nd Lowest
- Lowest

Sites with less than 20 years of data or low variability excluded

30 km
 20 mi

Oregon Water Supply Availability Committee

December 13, 2016



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<http://www.nrcs.usda.gov/wps/portal/nrcs/main/or/snow/>

Thank you!

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To file a complaint of discrimination write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410 or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.



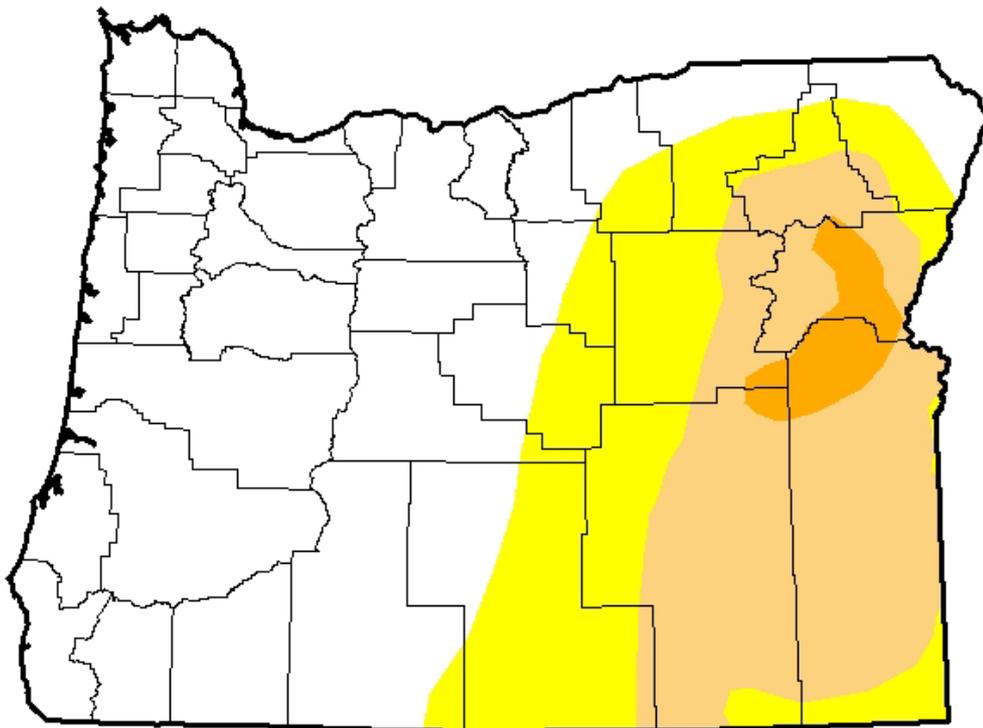
Current Drought Monitor

U.S. Drought Monitor Oregon

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

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	56.44	43.56	23.22	2.63	0.00	0.00
Last Week <i>11/29/2016</i>	56.44	43.56	23.22	2.63	0.00	0.00
3 Months Ago <i>9/6/2016</i>	0.00	100.00	50.21	12.03	0.00	0.00
Start of Calendar Year <i>12/29/2015</i>	14.52	85.48	80.45	65.33	39.55	0.00
Start of Water Year <i>9/27/2016</i>	0.00	100.00	50.59	12.30	0.00	0.00
One Year Ago <i>12/8/2015</i>	3.31	96.69	90.99	88.52	59.57	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.

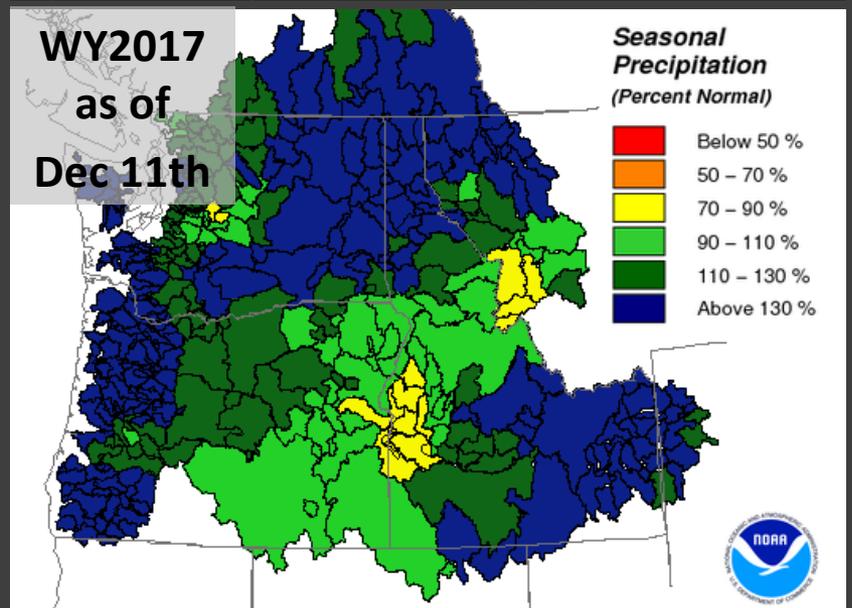
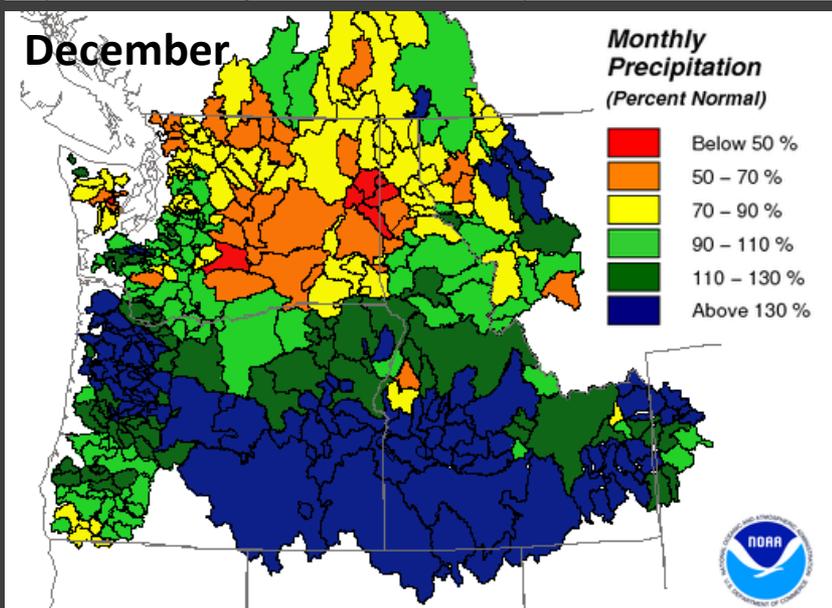
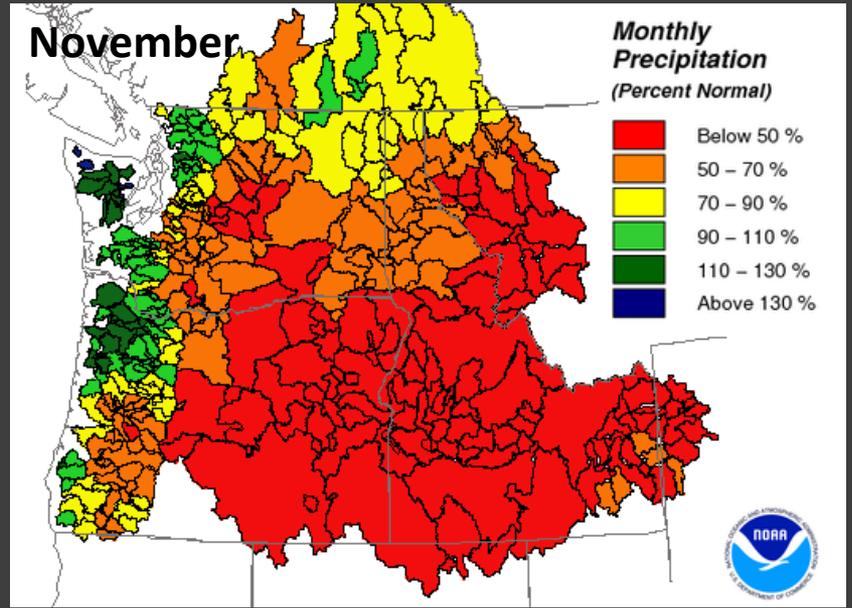
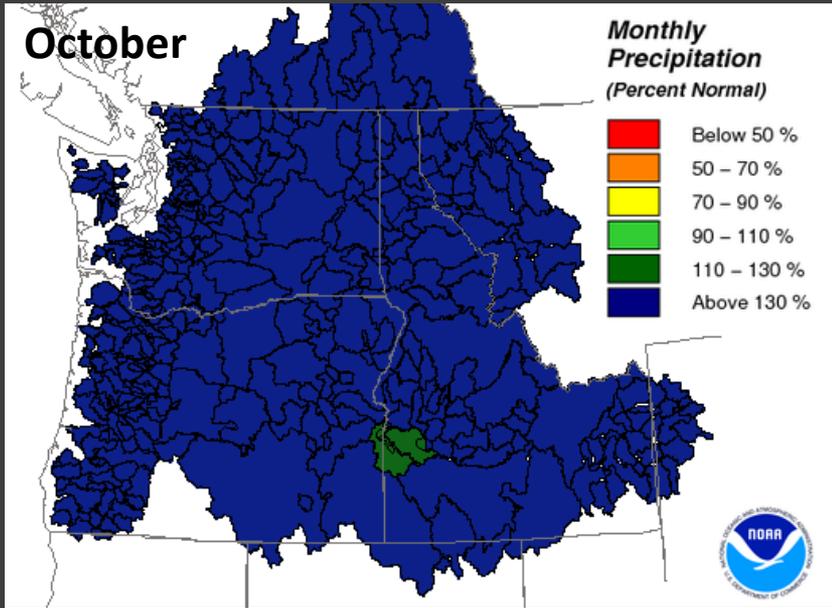
Author:
Anthony Artusa
NOAA/NWS/NCEP/CPC





Precip Summary: Oct, Nov, Dec, WY

www.nwrfc.noaa.gov/ws/index.html

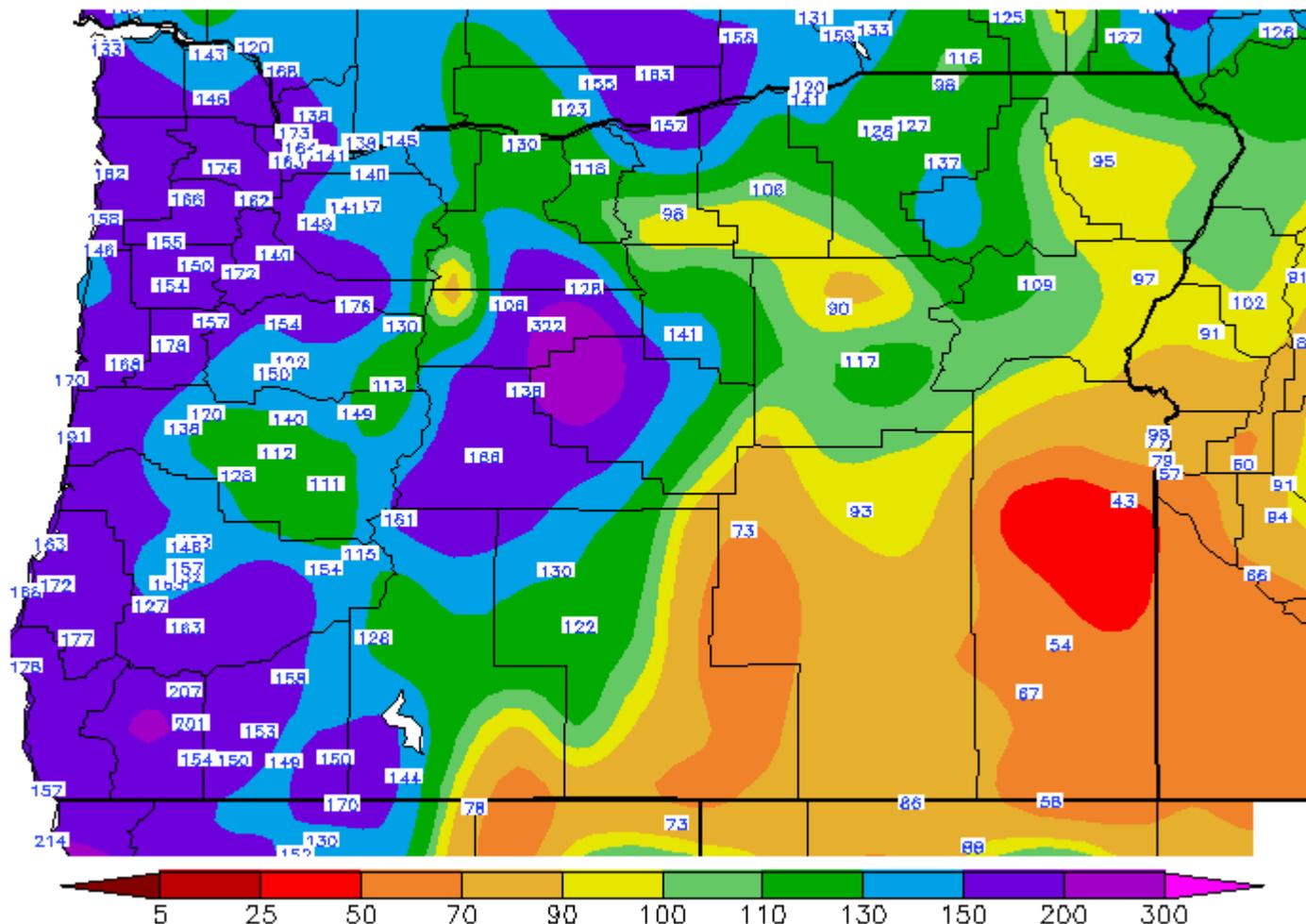




WY2017 Precip % of Average

www.wrcc.dri.edu/anom/ore_anom.html

Percent of Average Precipitation (%)
10/1/2016 – 12/10/2016

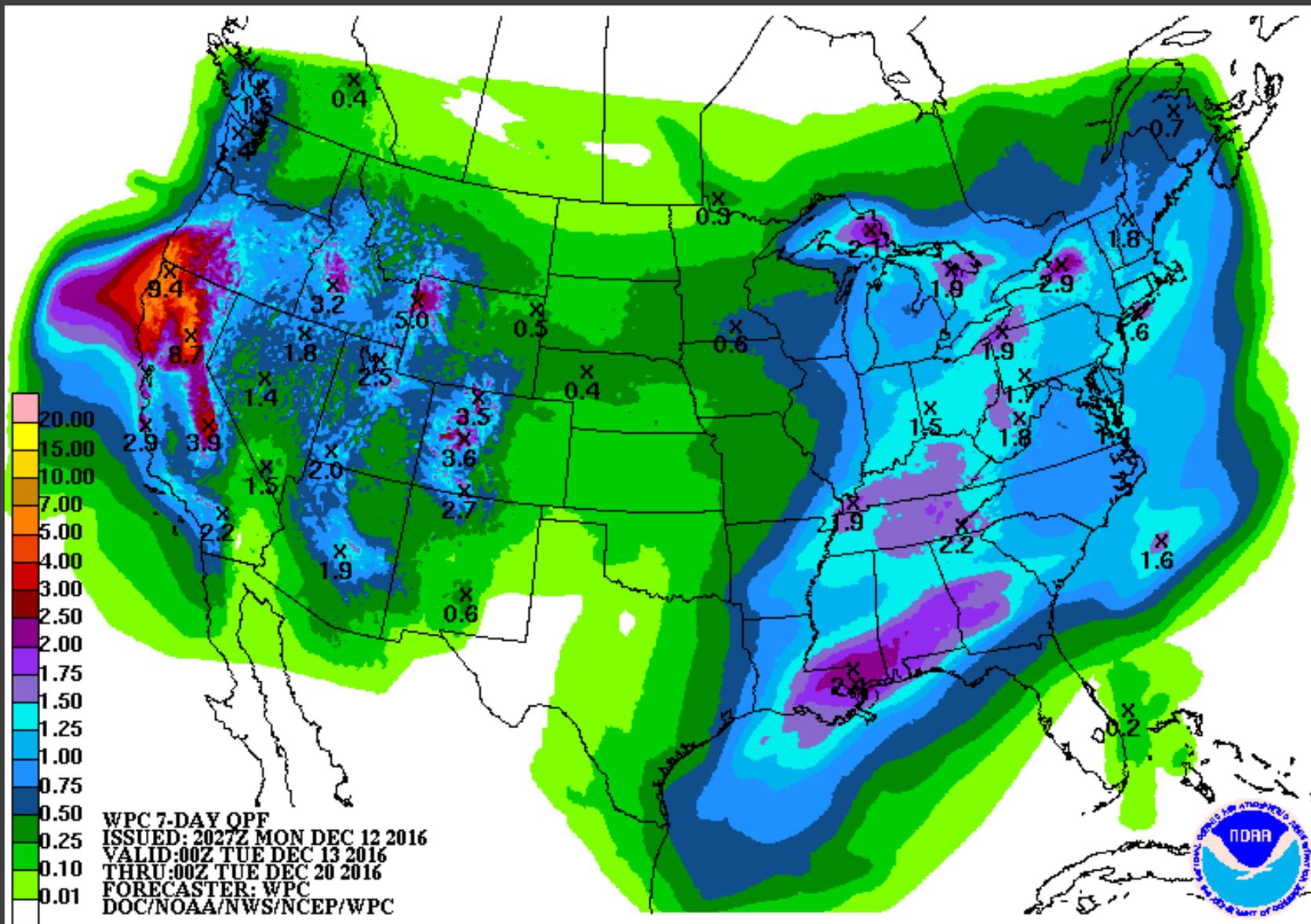


Generated 12/11/2016 at WRCC using provisional data.
NOAA Regional Climate Centers



7 Day Precipitation Outlook

www.wpc.ncep.noaa.gov

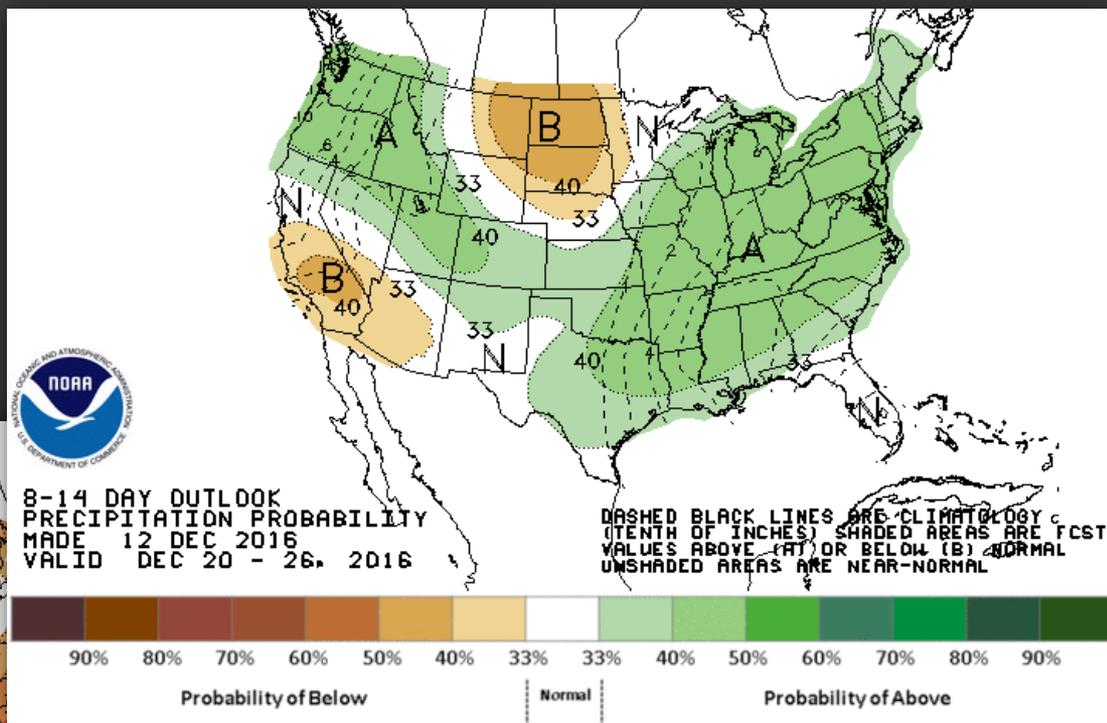




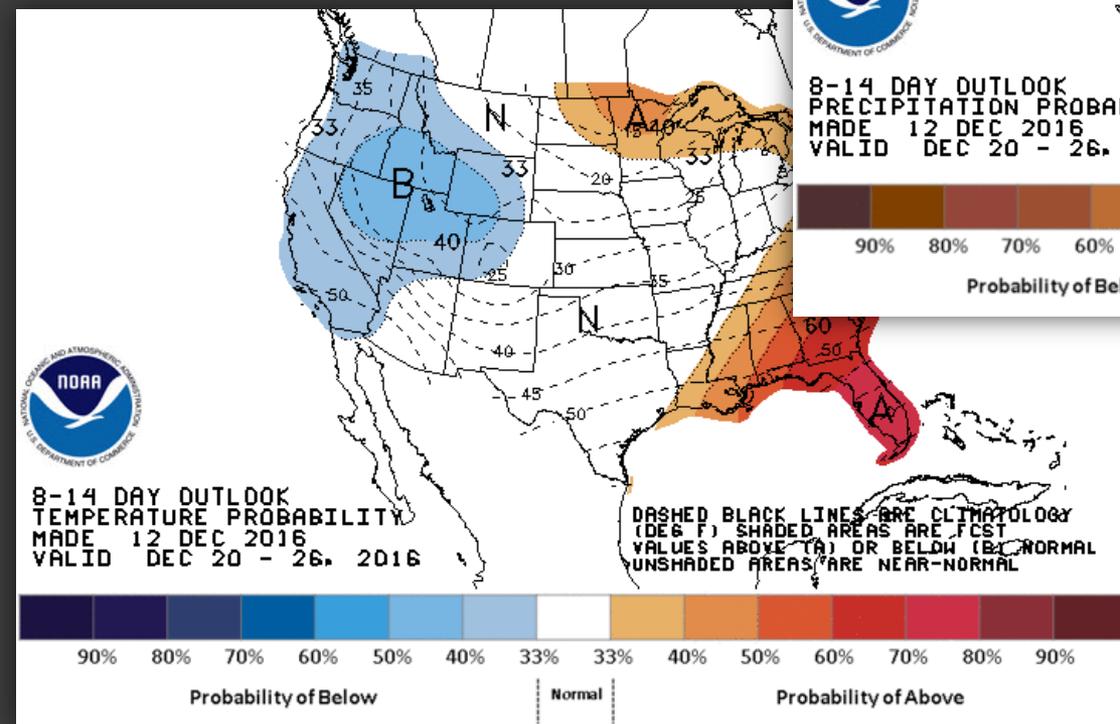
8 to 14 Day Outlook

www.cpc.ncep.noaa.gov/products/predictions/814day/

Precipitation



Temperatures

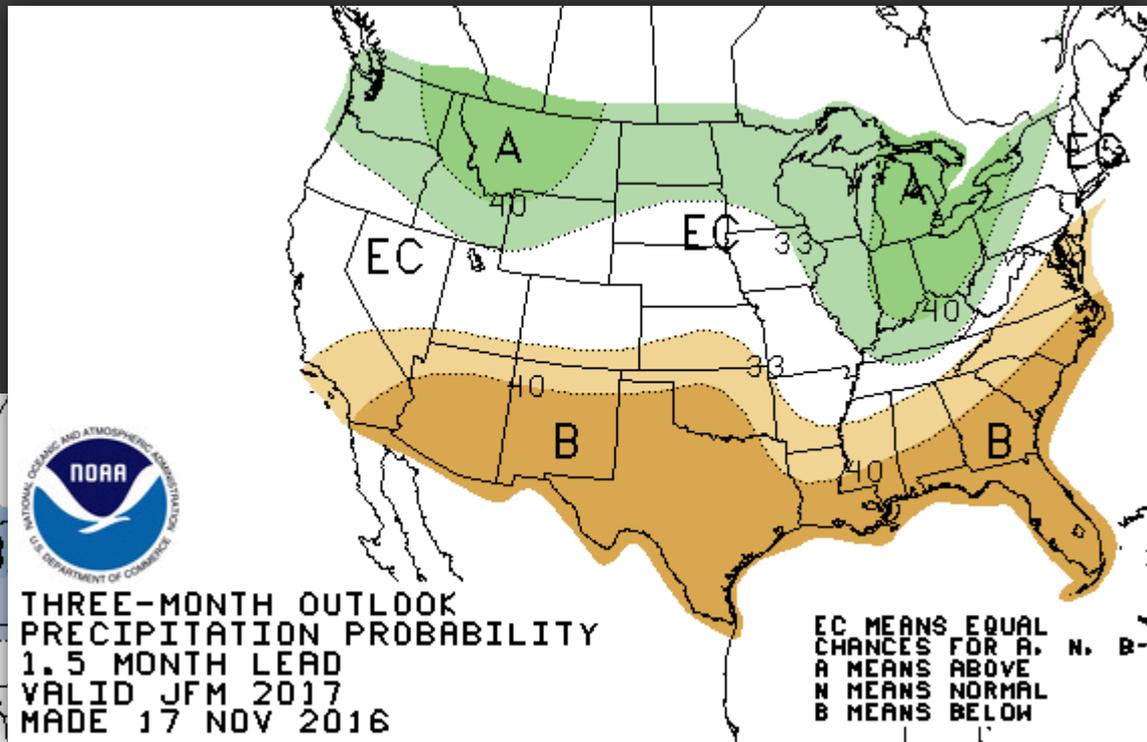
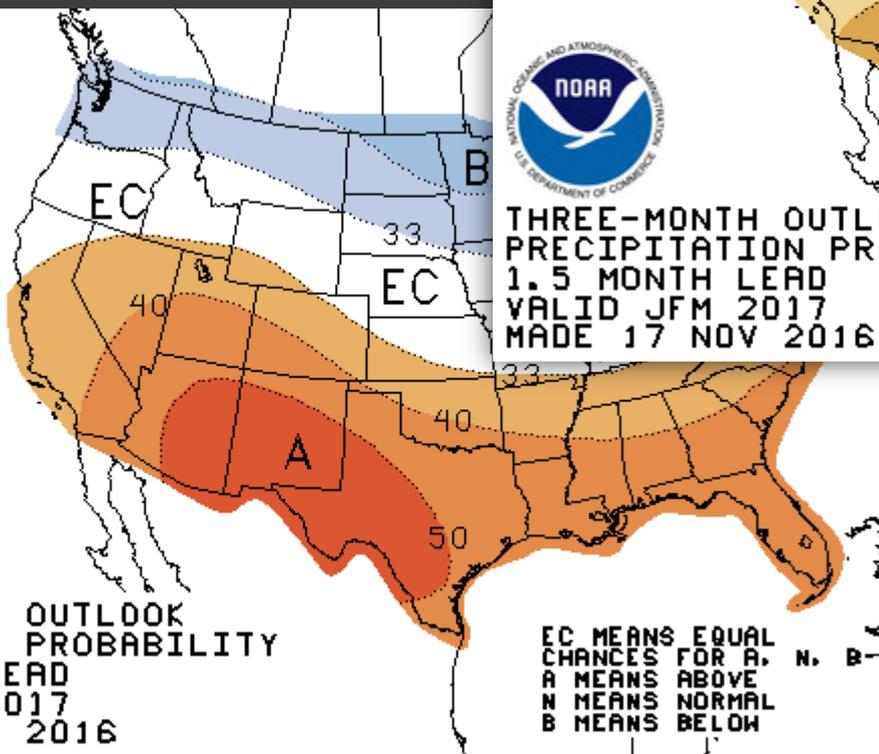


Continued cool & wet conditions likely through the end of December



Jan-Feb-Mar Outlook

www.cpc.ncep.noaa.gov/products/predictions/long_range/seasonal.php

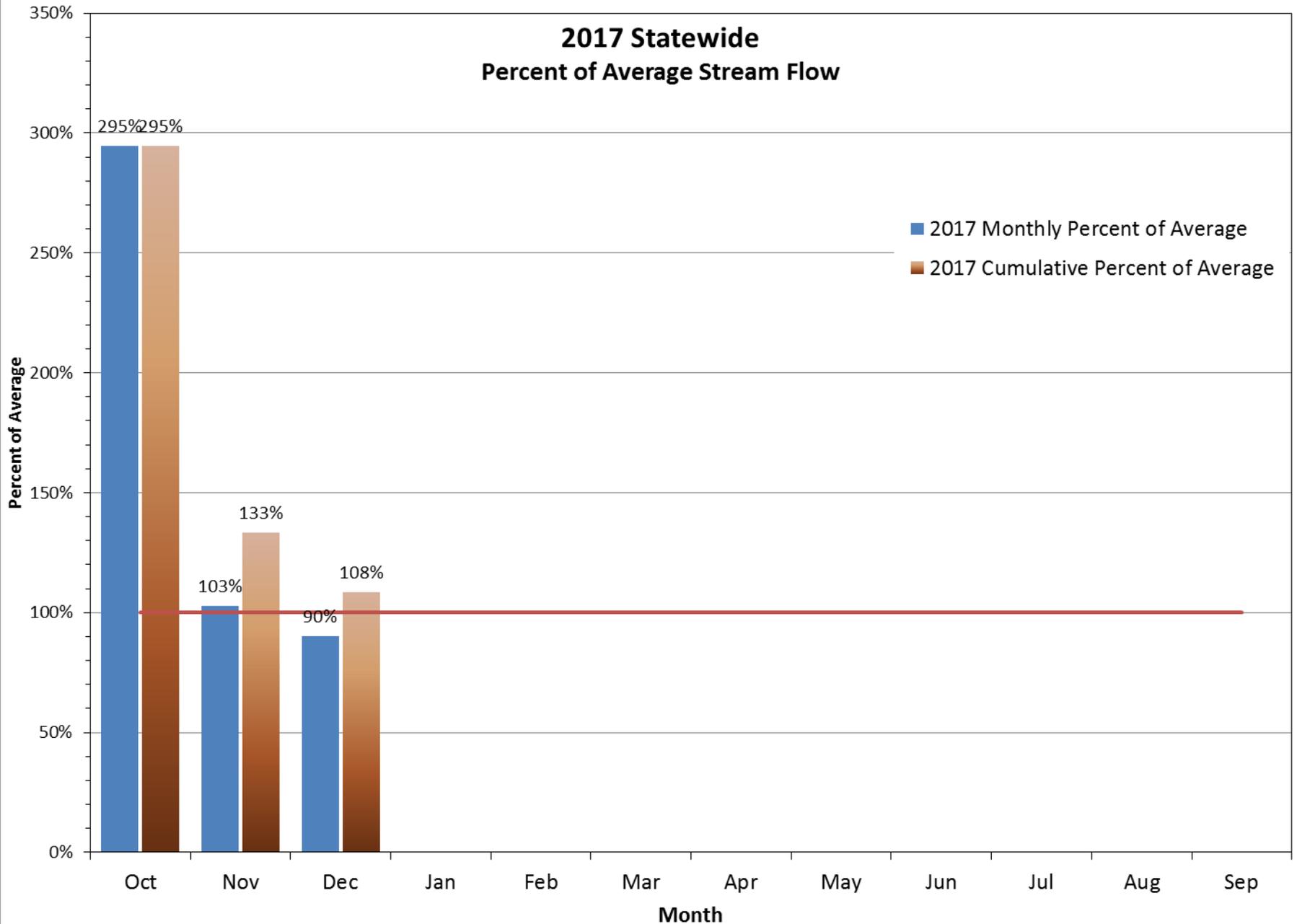


Surface Water Conditions Report
Water Supply Availability Committee

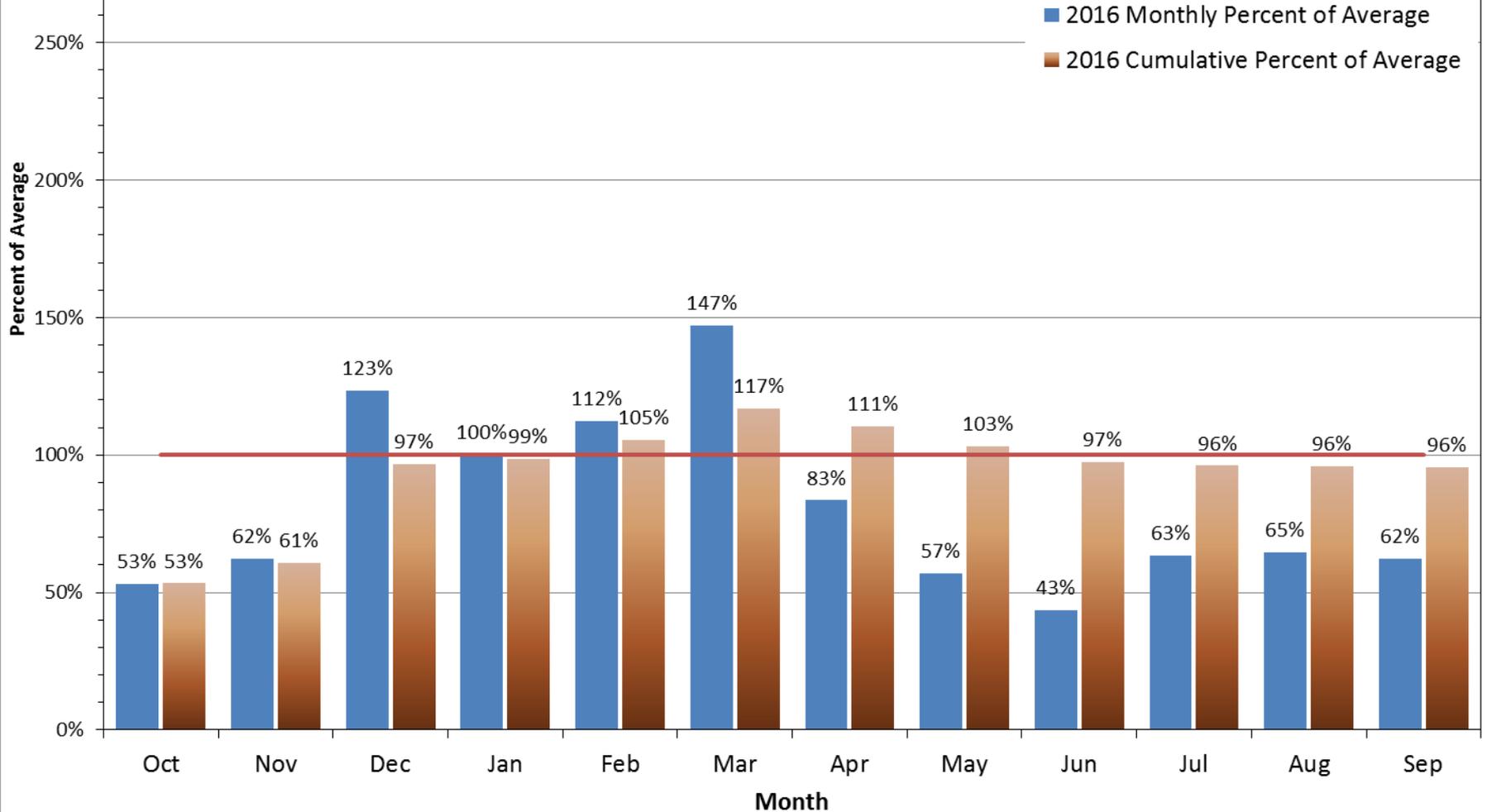


Ken Stahr
Oregon Water Resources
Department
December 13, 2016

2017 Statewide Percent of Average Stream Flow



2016 Statewide Percent of Average Stream Flow



Percent of Average Streamflow Month of December, 2016

Percent of Average Streamflow

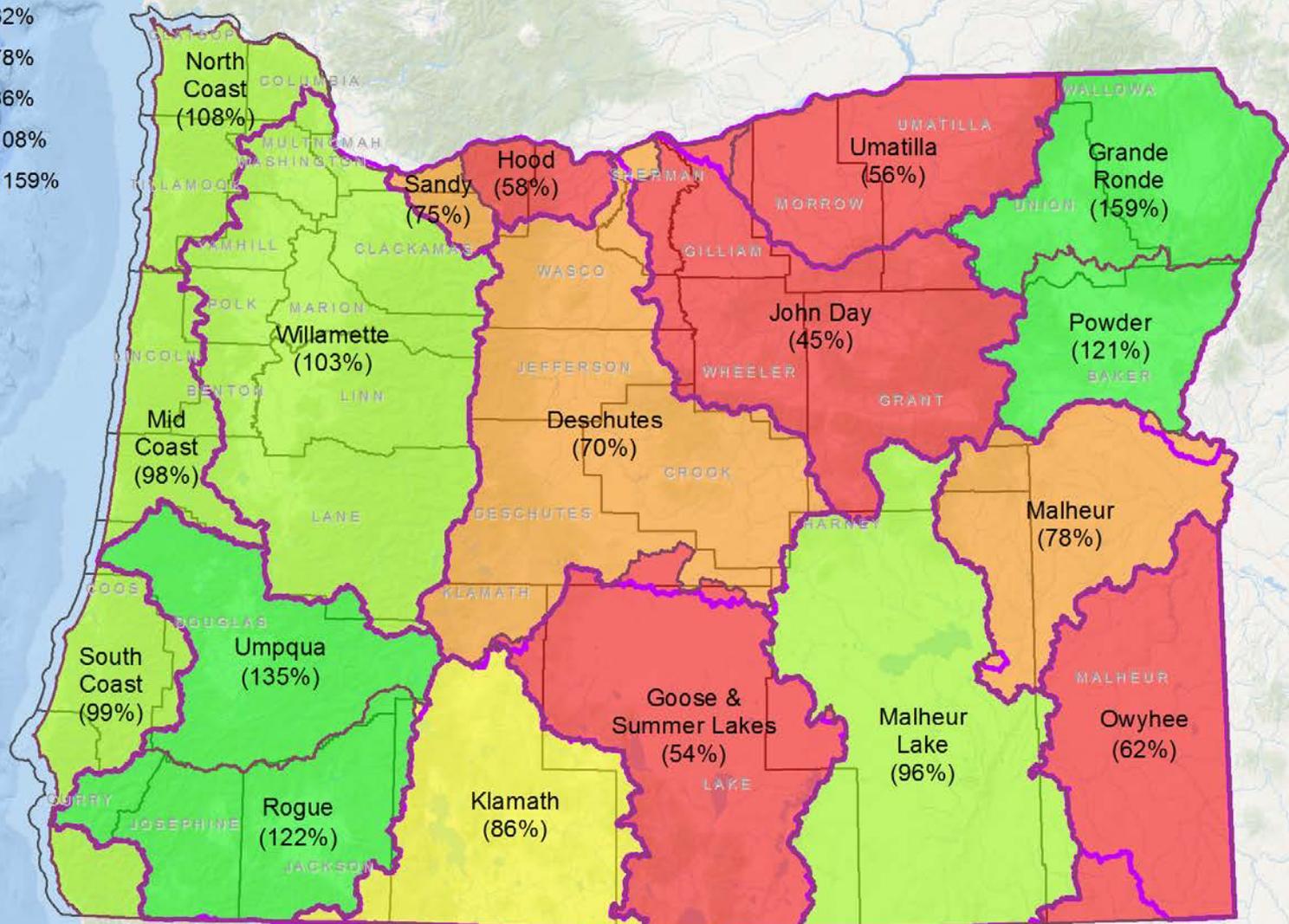
WRD Basin

- 45% - 62%
- 63% - 78%
- 79% - 86%
- 87% - 108%
- 109% - 159%

NRCS Basin



Counties



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.

Percent of Average Streamflow Month of December, 2015

Percent of Average Streamflow

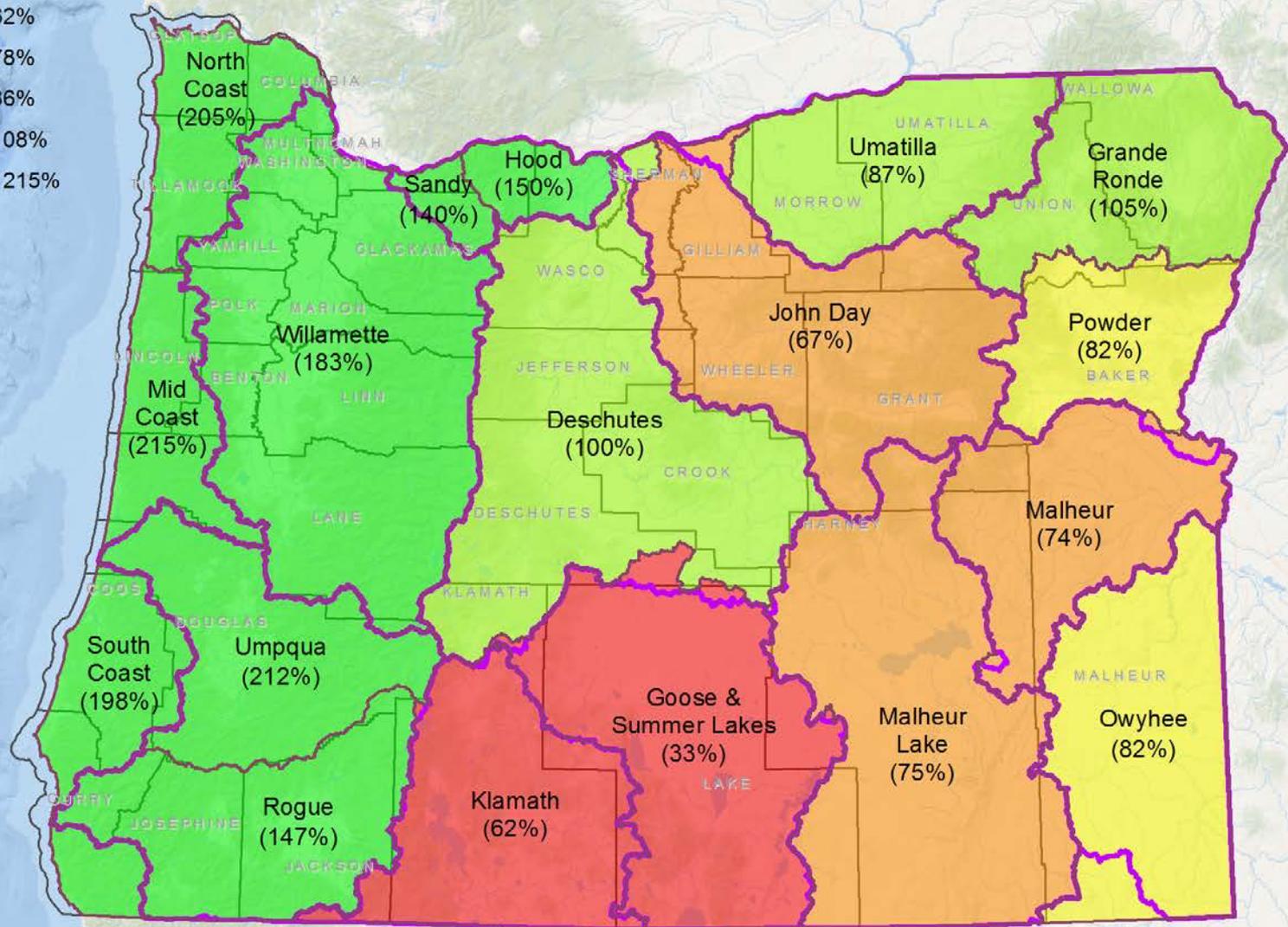
average_for_December / none

- 33% - 62%
- 63% - 78%
- 79% - 86%
- 87% - 108%
- 109% - 215%

NRCS Basin

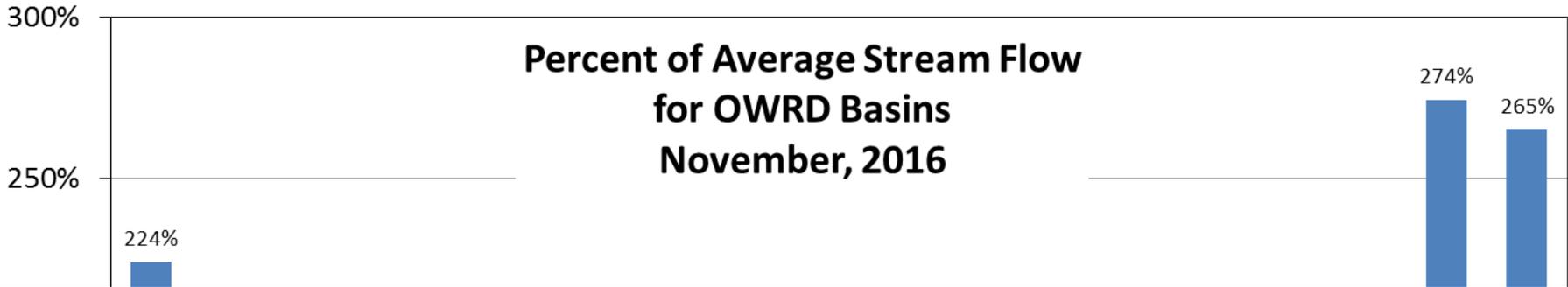


Counties

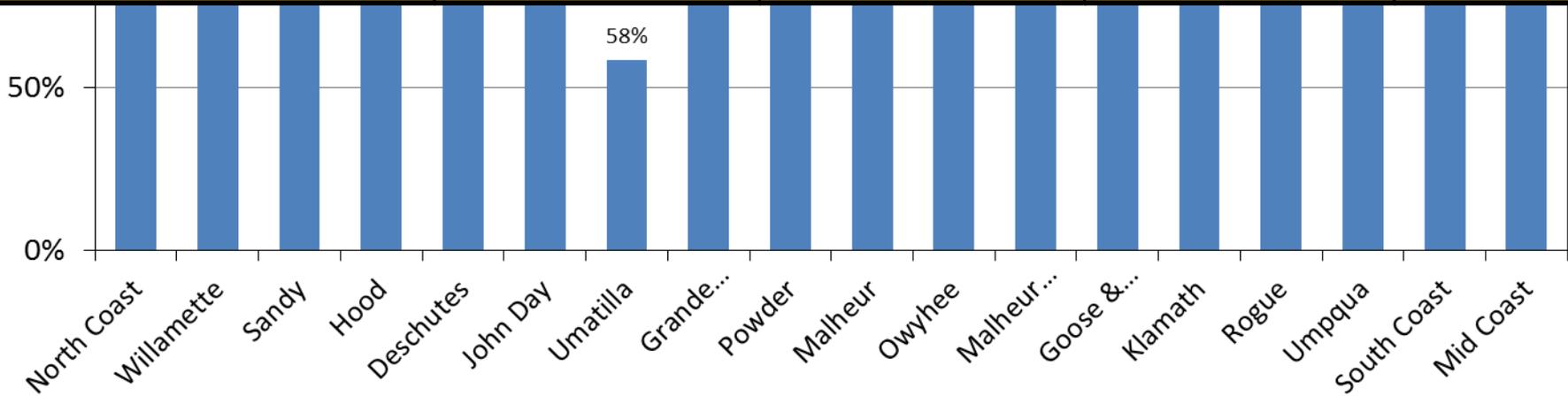


Average streamflow data are based on 30 years of record (1981-2010). All data represent free-flowing streams unaffected by significant man-made control structures such as dams or diversion works.

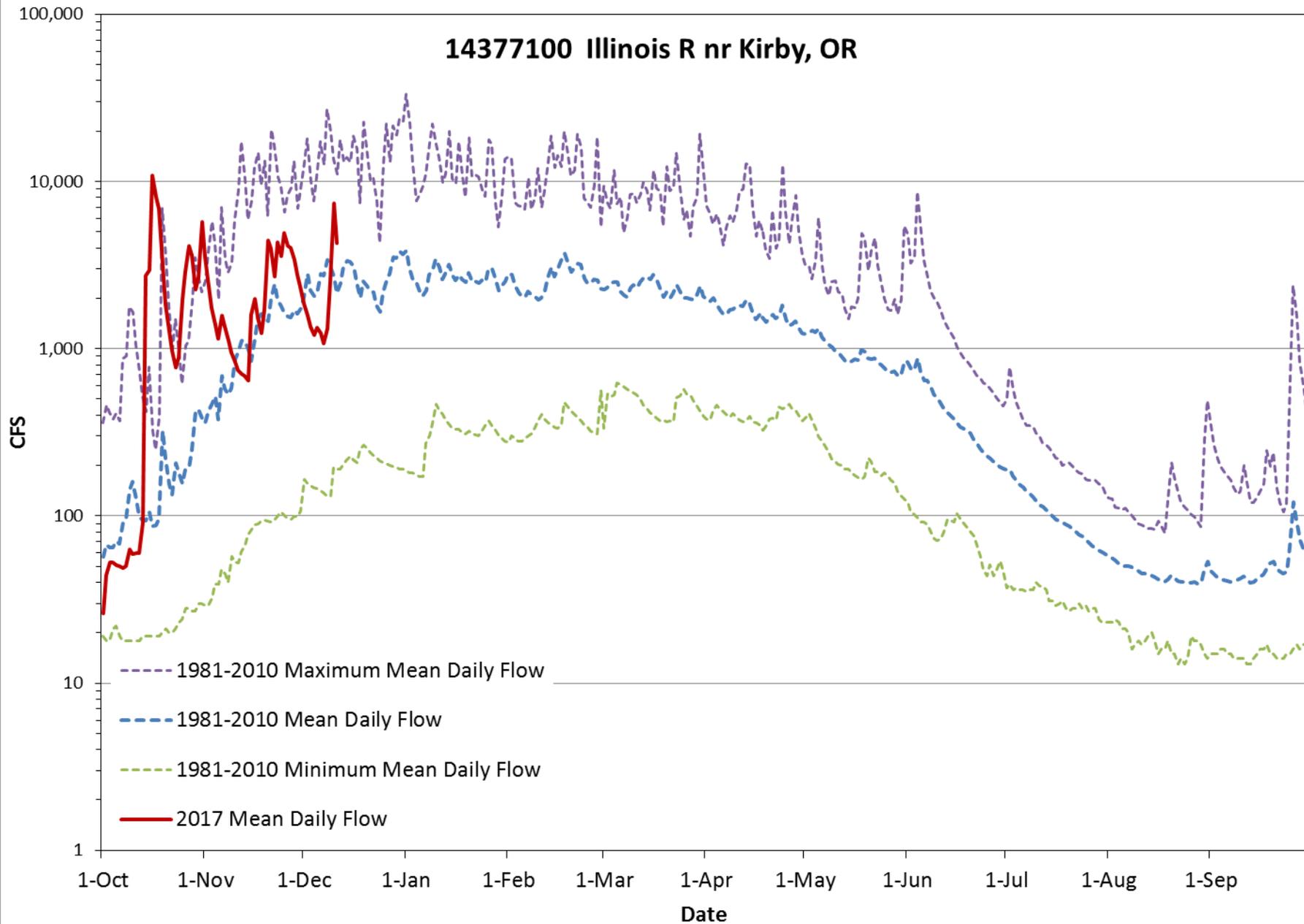
**Percent of Average Stream Flow
for OWRD Basins
November, 2016**



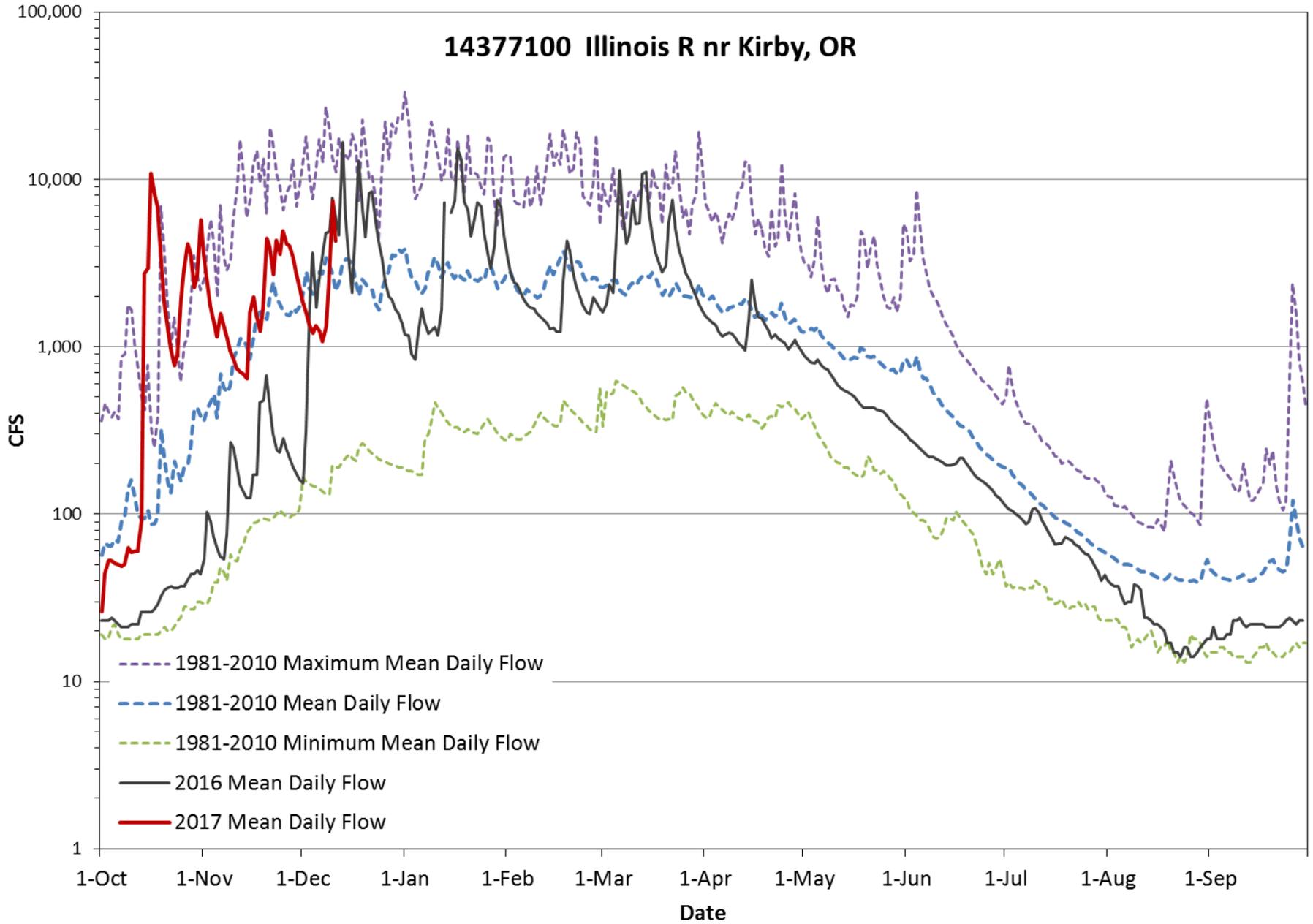
Basin	Water Year % of average through November	% of average for November	% of average for 12/10/2016	# of data points
West Side	201%	134%	187%	33
East Side	91%	83%	83%	53
State	134%	103%	123%	86



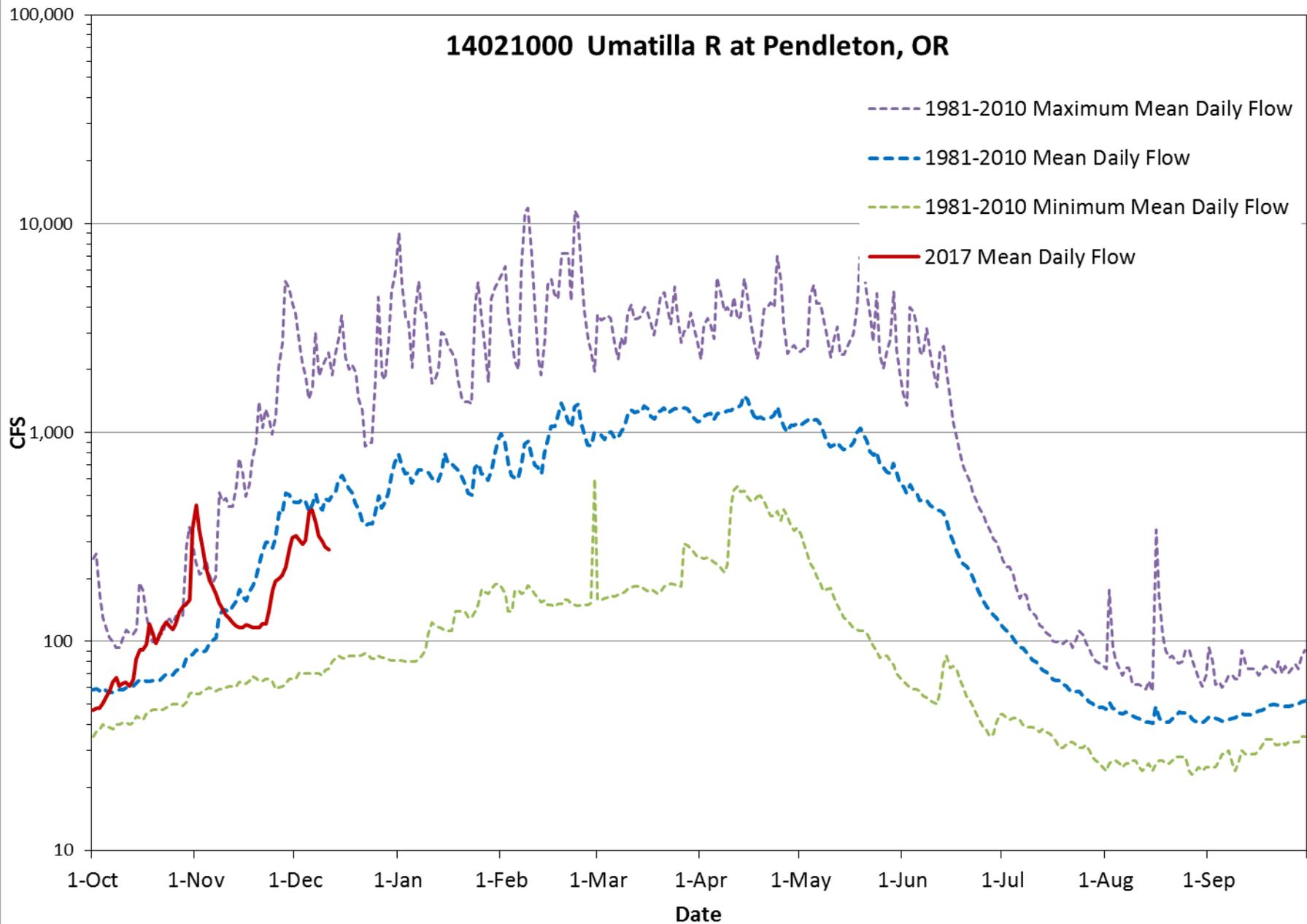
14377100 Illinois R nr Kirby, OR



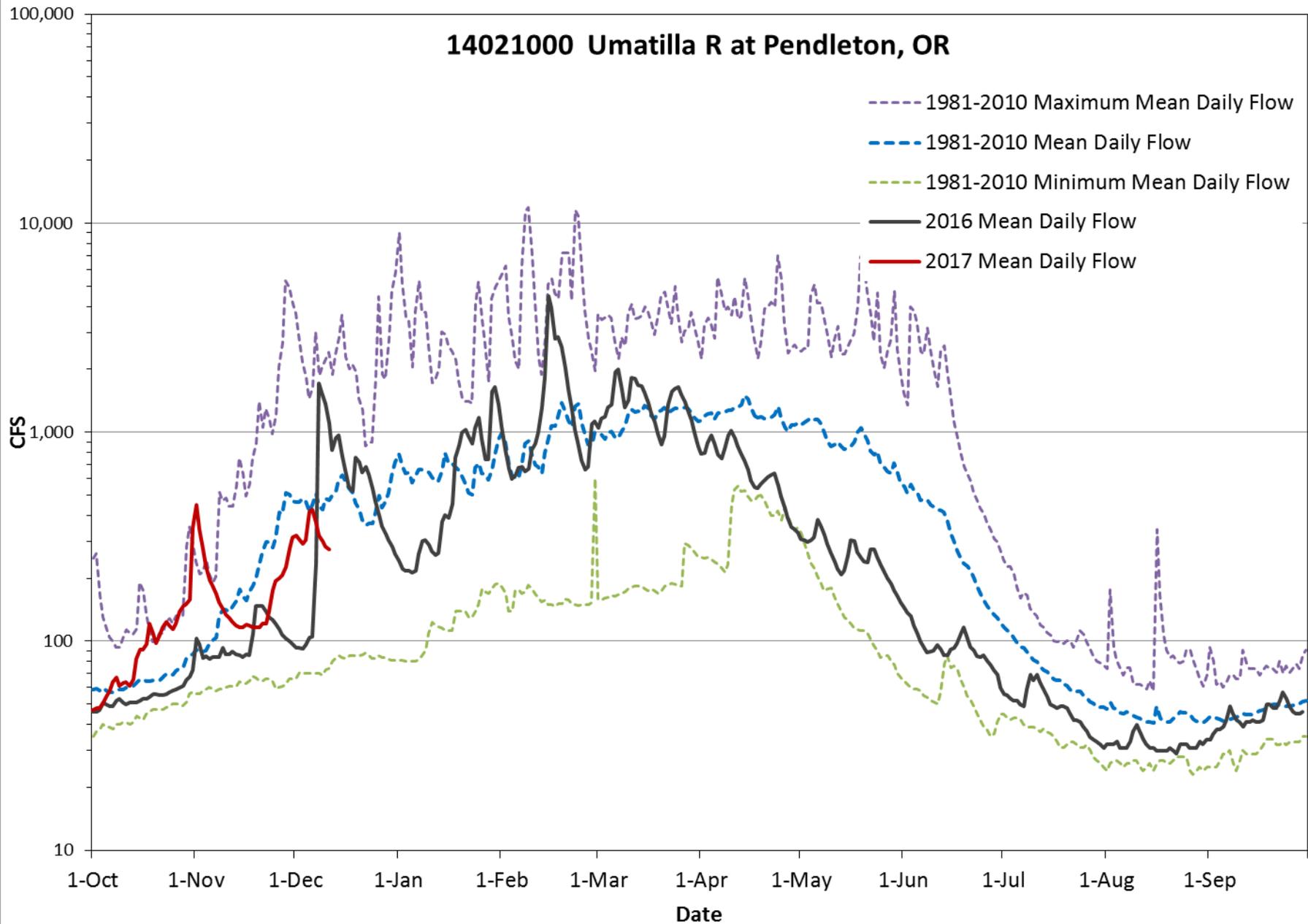
14377100 Illinois R nr Kirby, OR



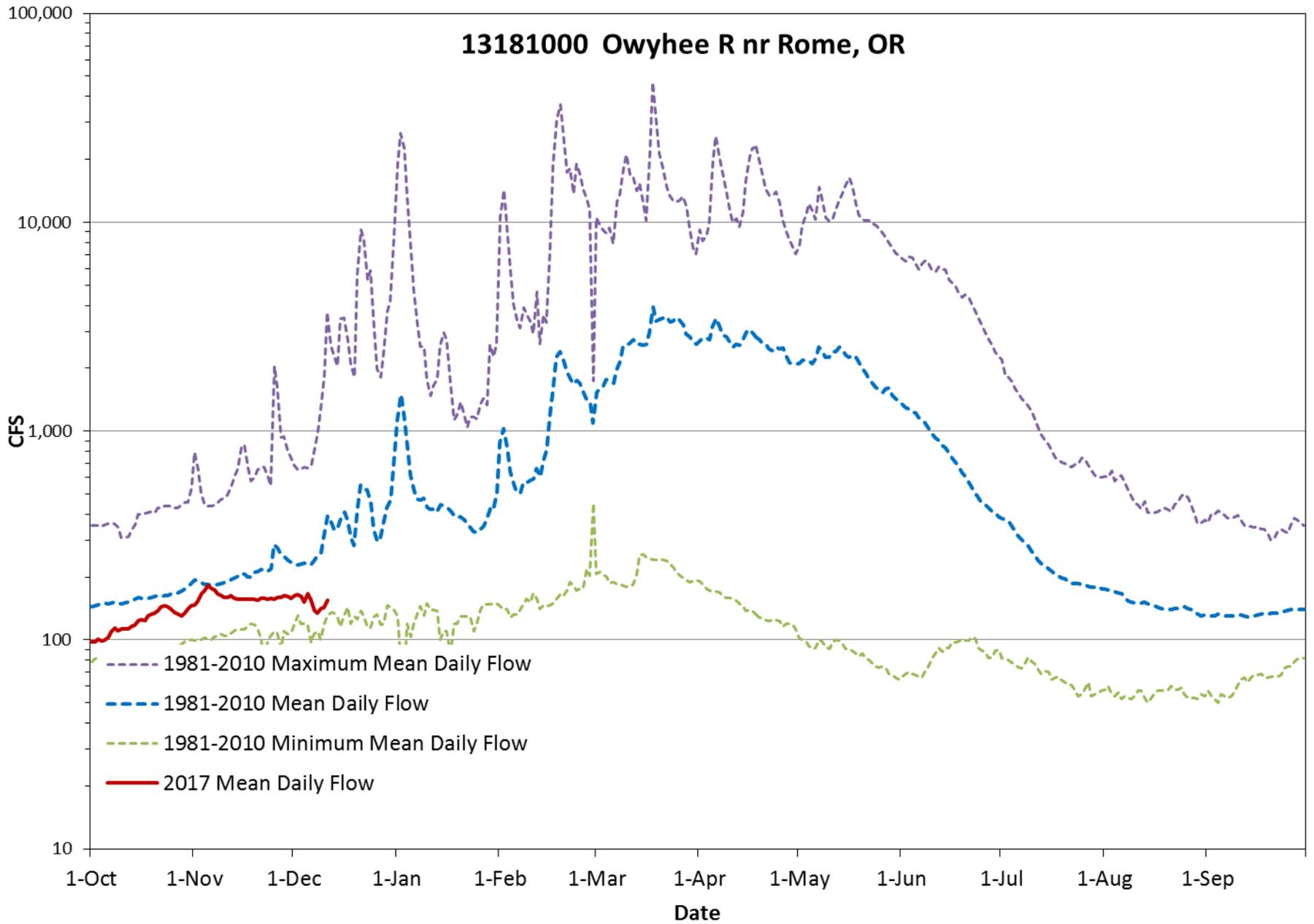
14021000 Umatilla R at Pendleton, OR



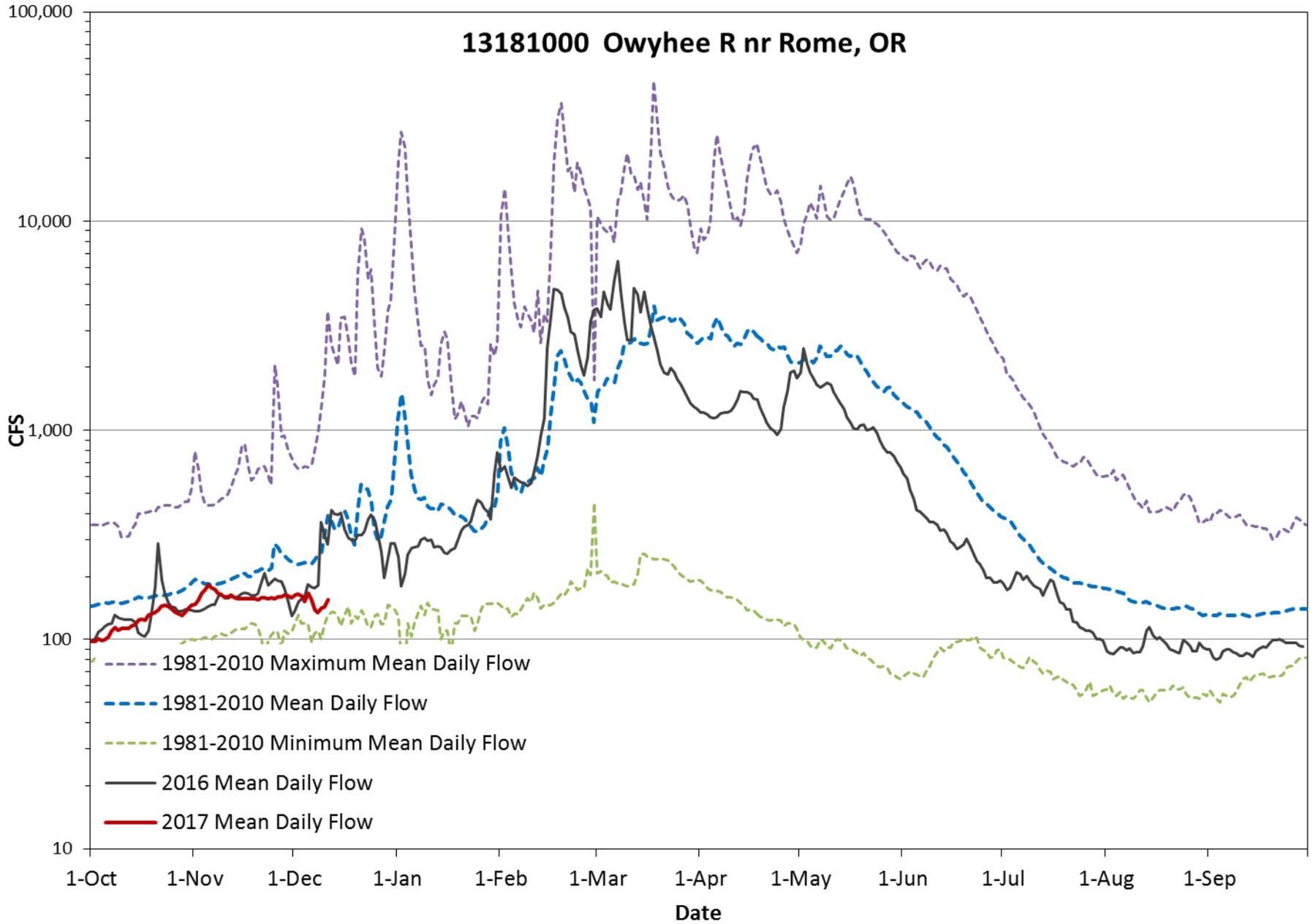
14021000 Umatilla R at Pendleton, OR



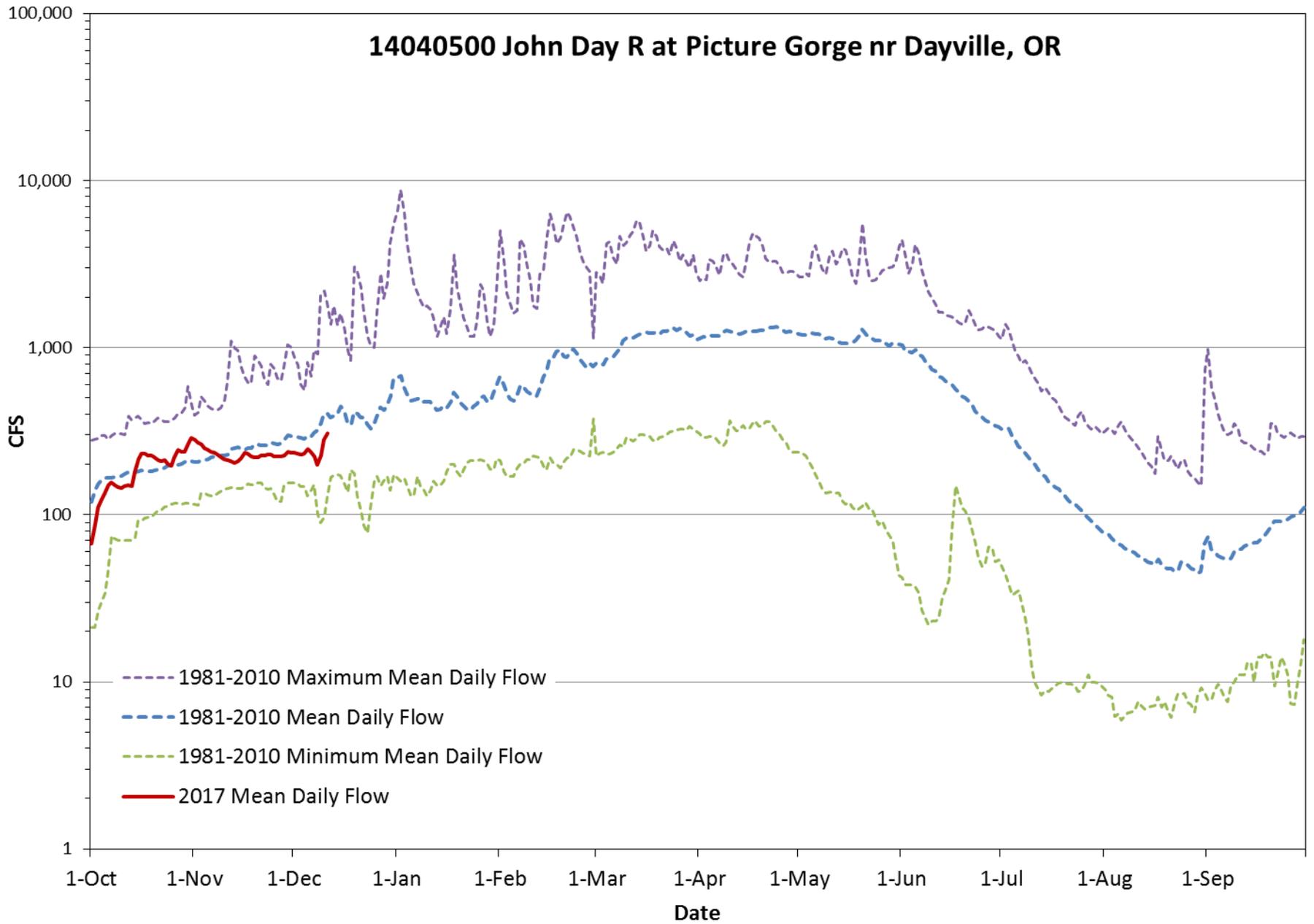
13181000 Owyhee R nr Rome, OR



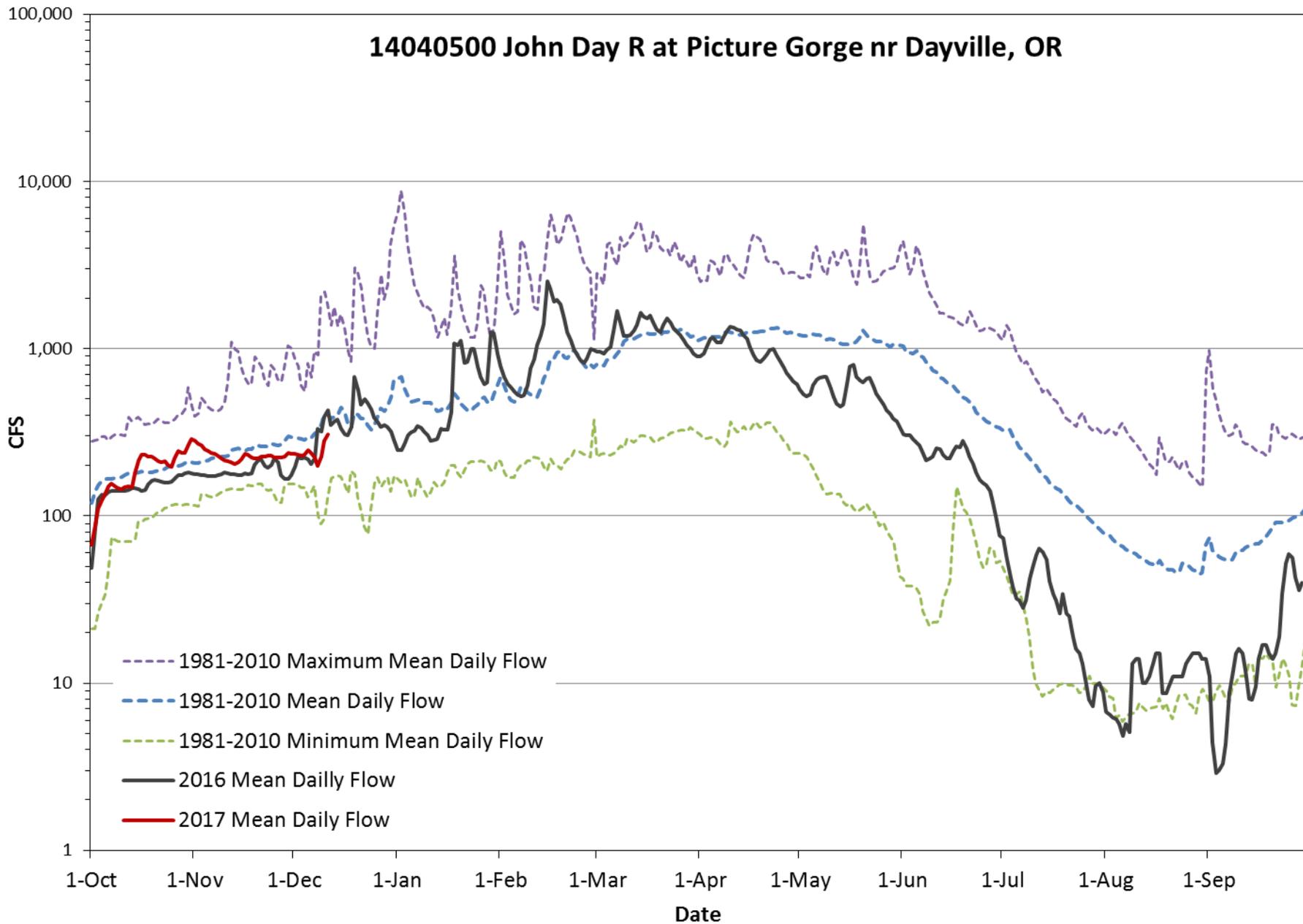
13181000 Owyhee R nr Rome, OR



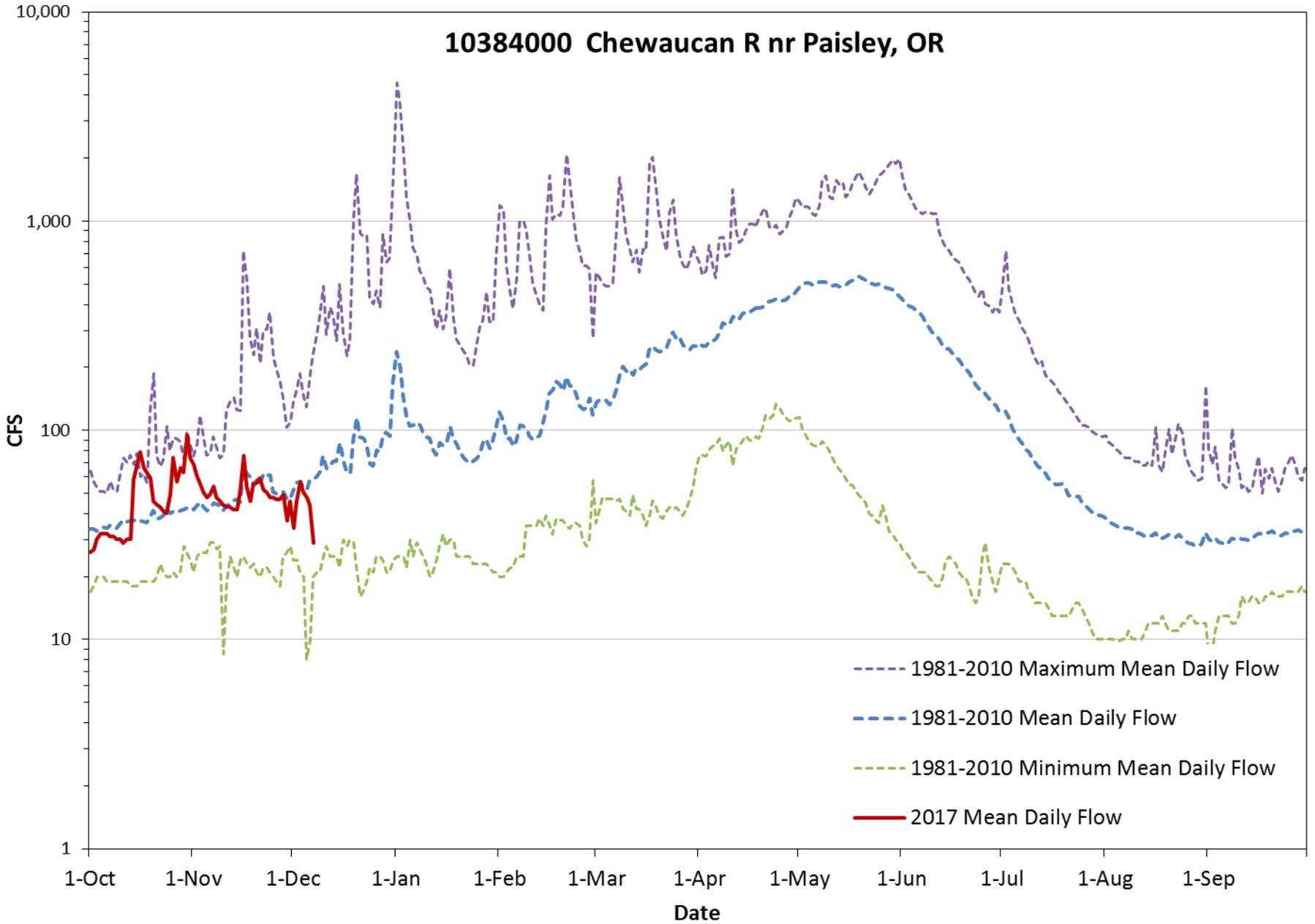
14040500 John Day R at Picture Gorge nr Dayville, OR



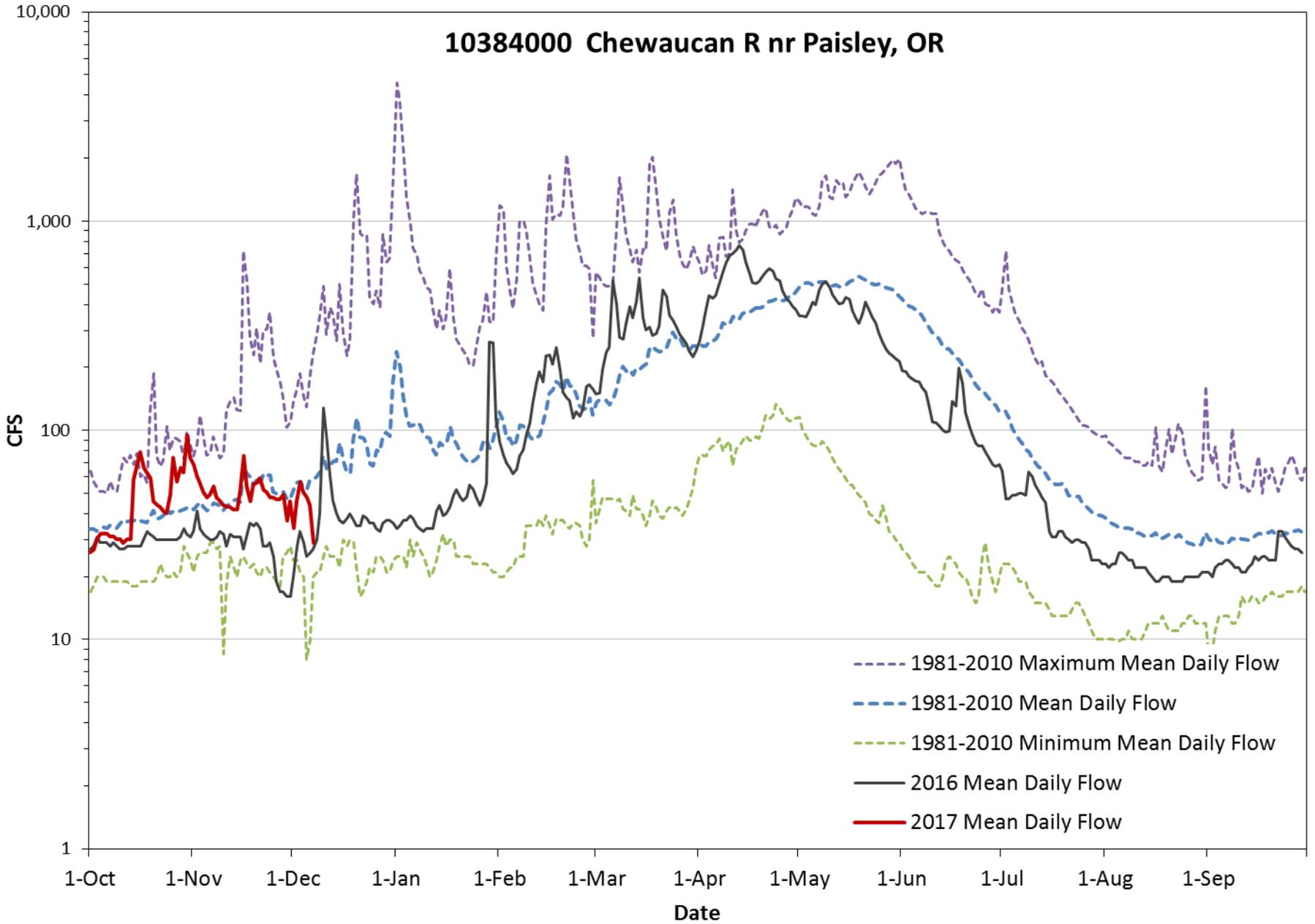
14040500 John Day R at Picture Gorge nr Dayville, OR



1038400 Chewaucan R nr Paisley, OR



10384000 Chewaucan R nr Paisley, OR



Reservoir Storage Summary for the end of December, 2016

Percent of Average Storage

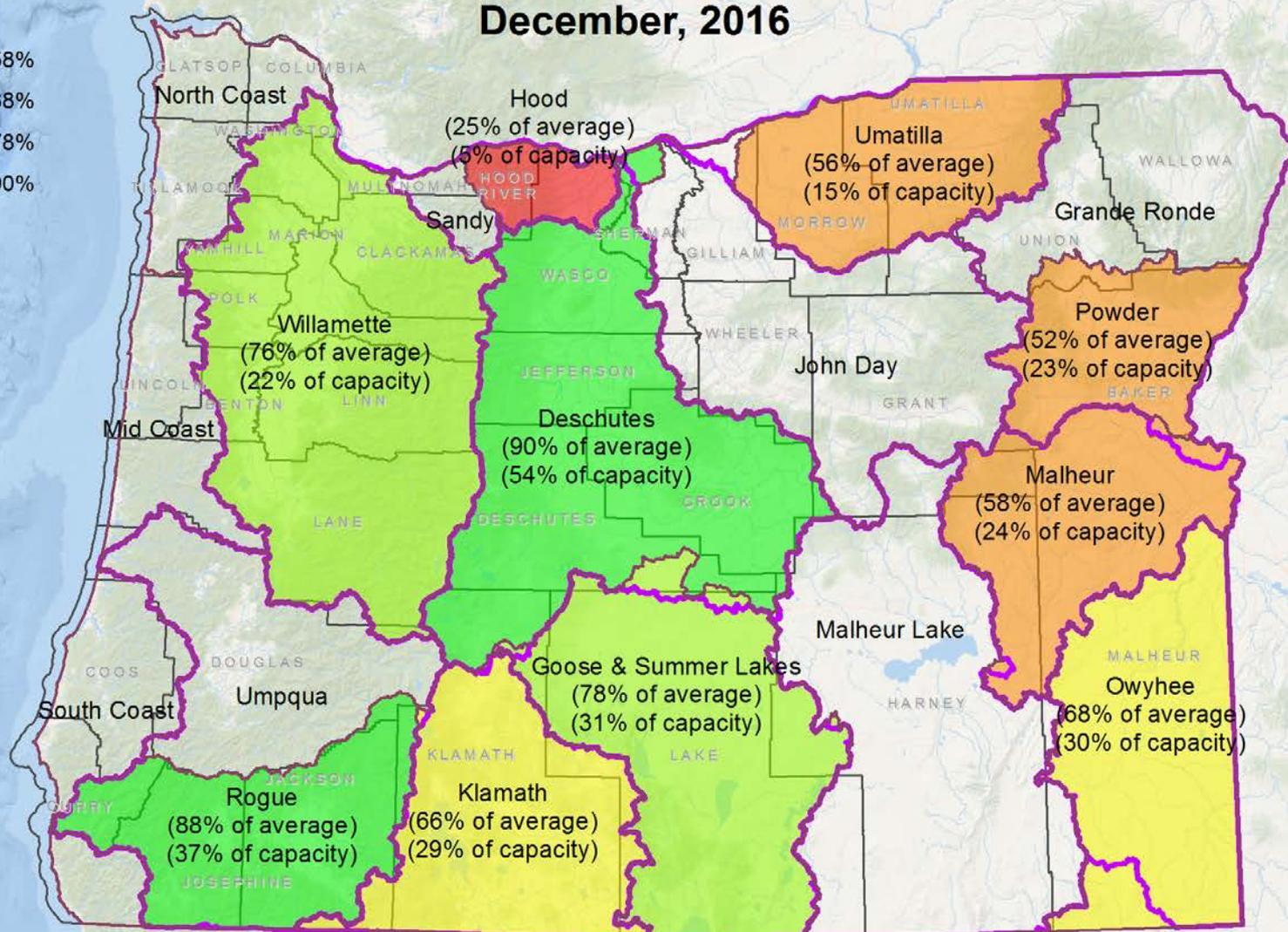
Current_Average / none

- 32%
- 33% - 58%
- 59% - 68%
- 69% - 78%
- 79% - 90%

NRCS Basins

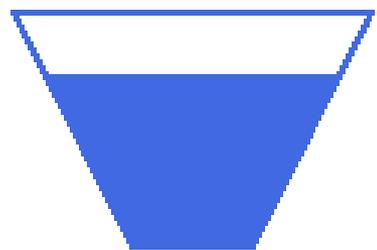
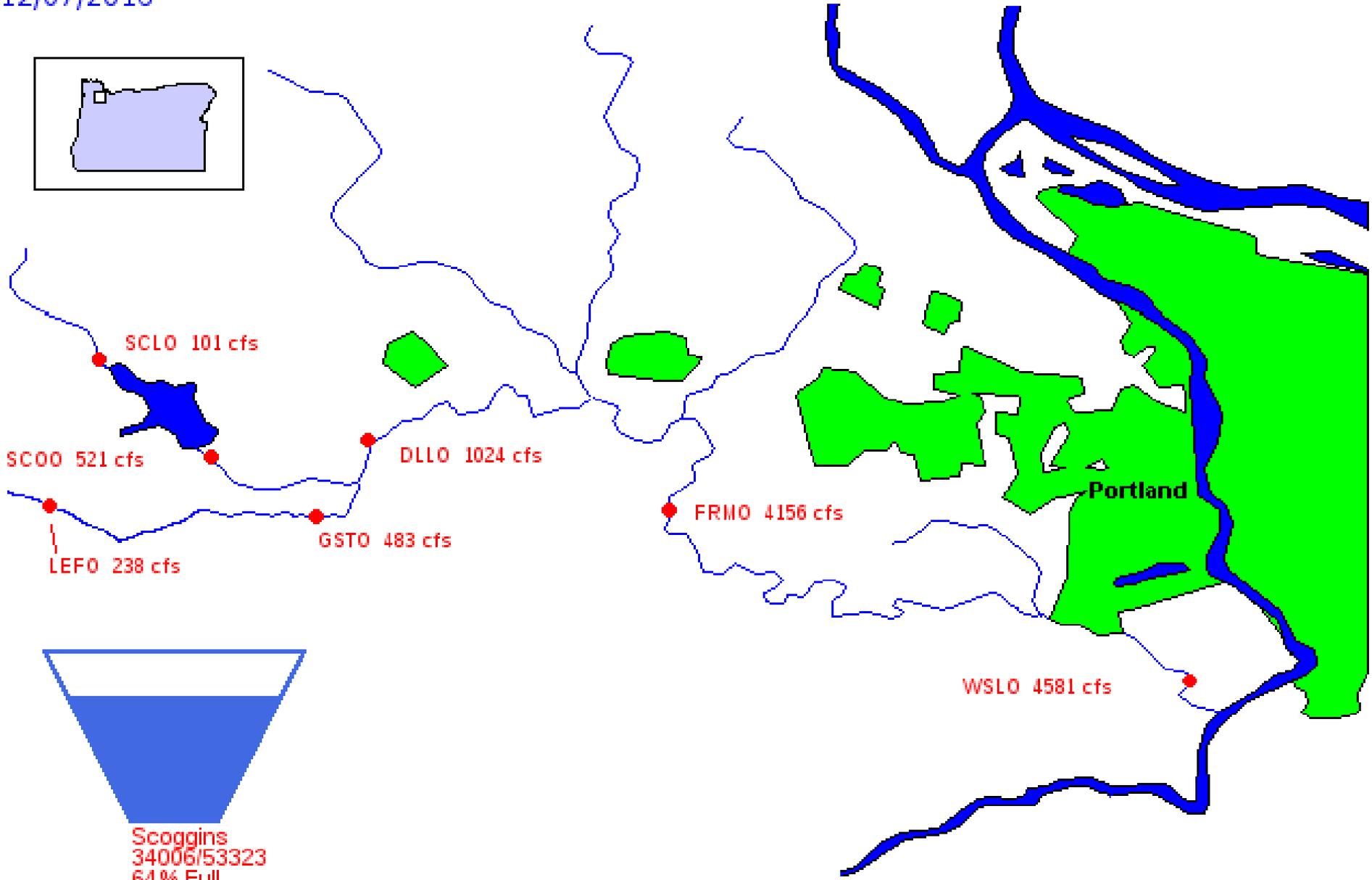
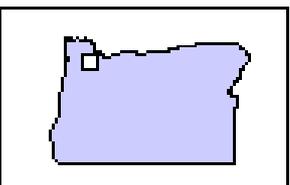


Counties



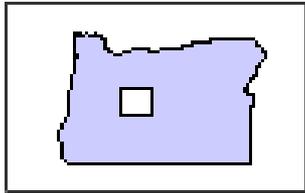
NRCS Basinwide Summary: January 1, 2017
(averages based on 1981-2010 reference period)

12/07/2016

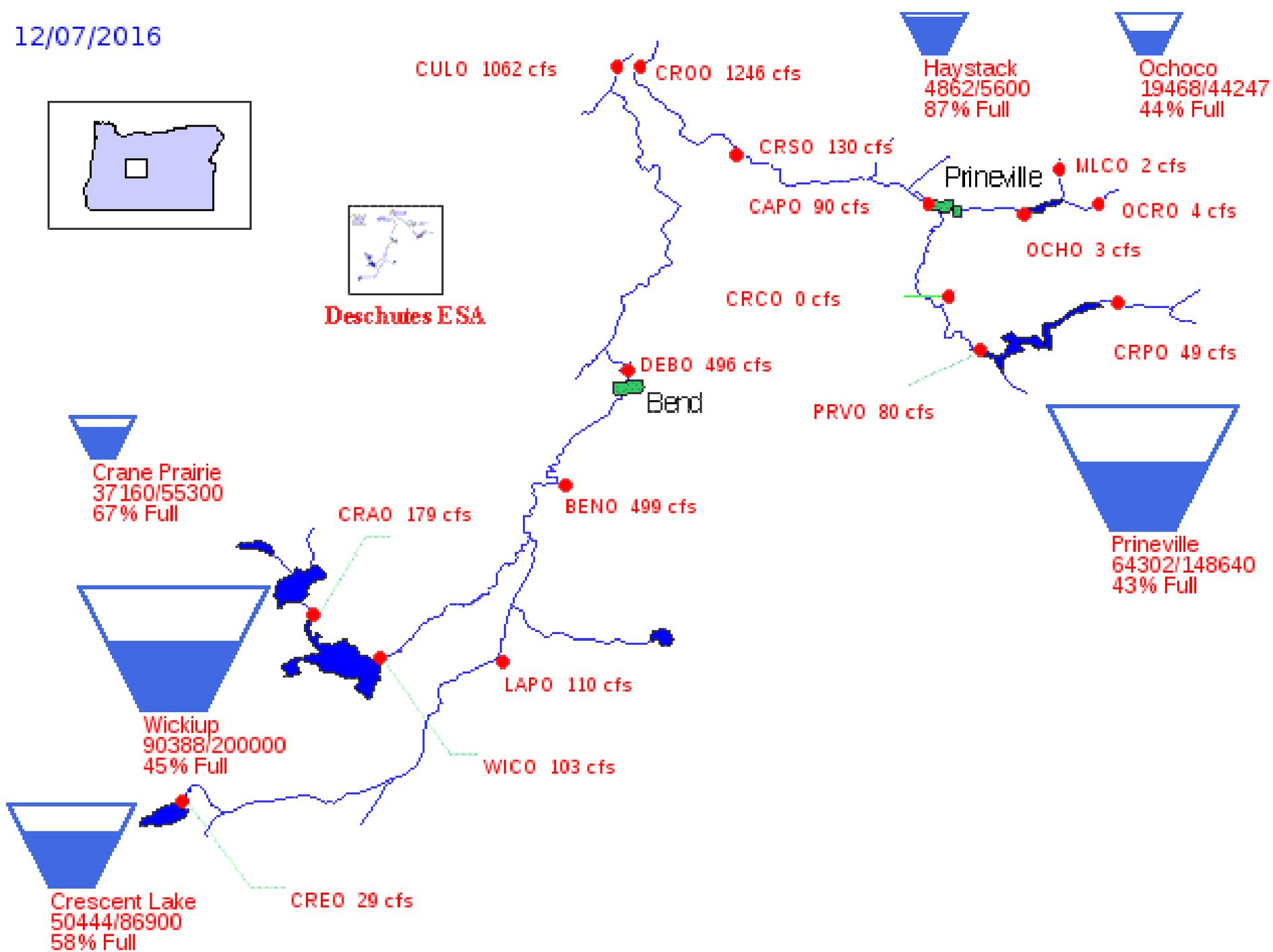


Scoggins
34006/53323
64% Full

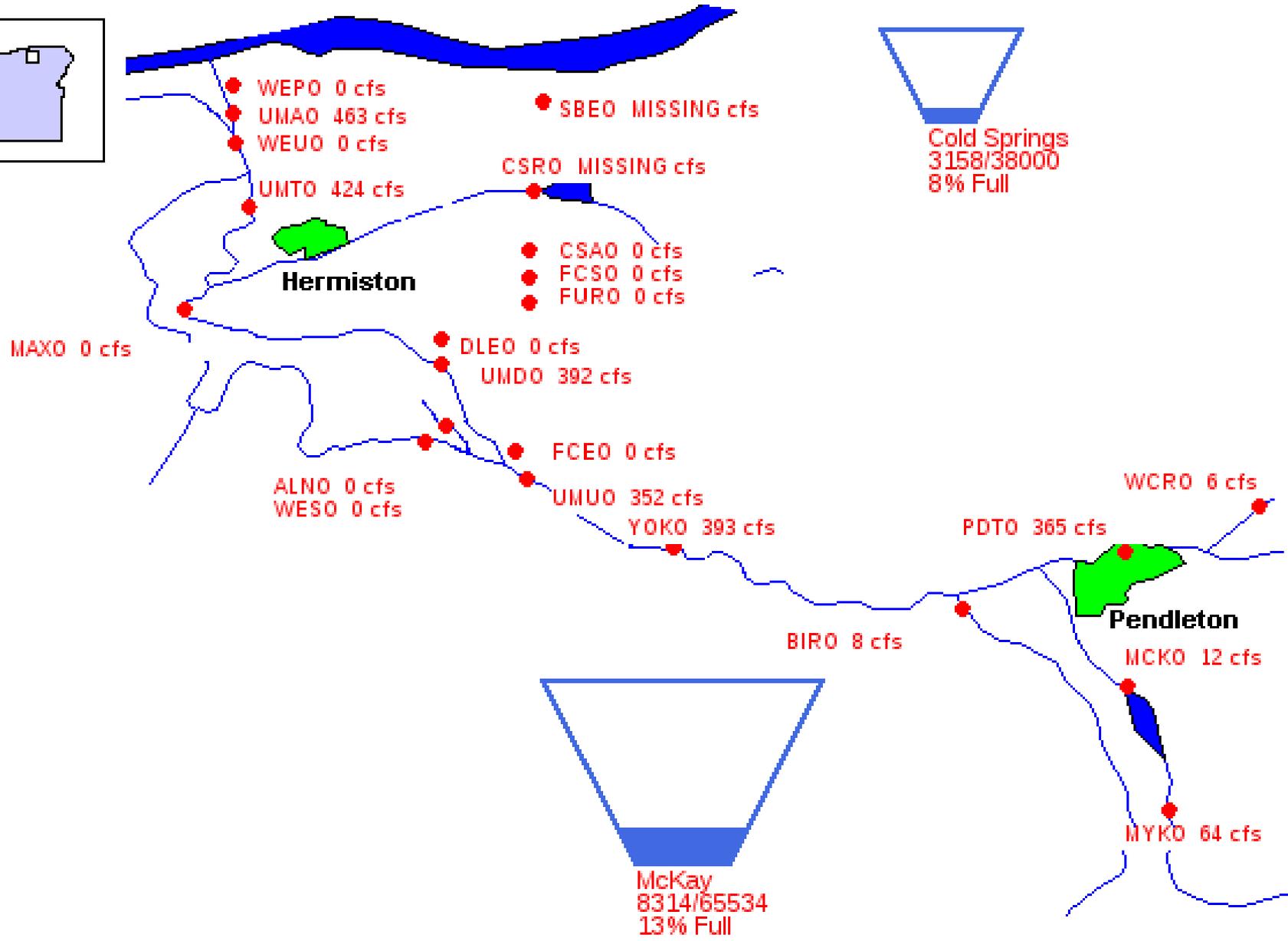
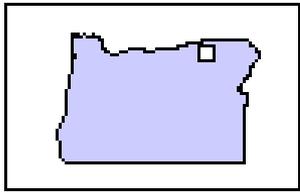
12/07/2016

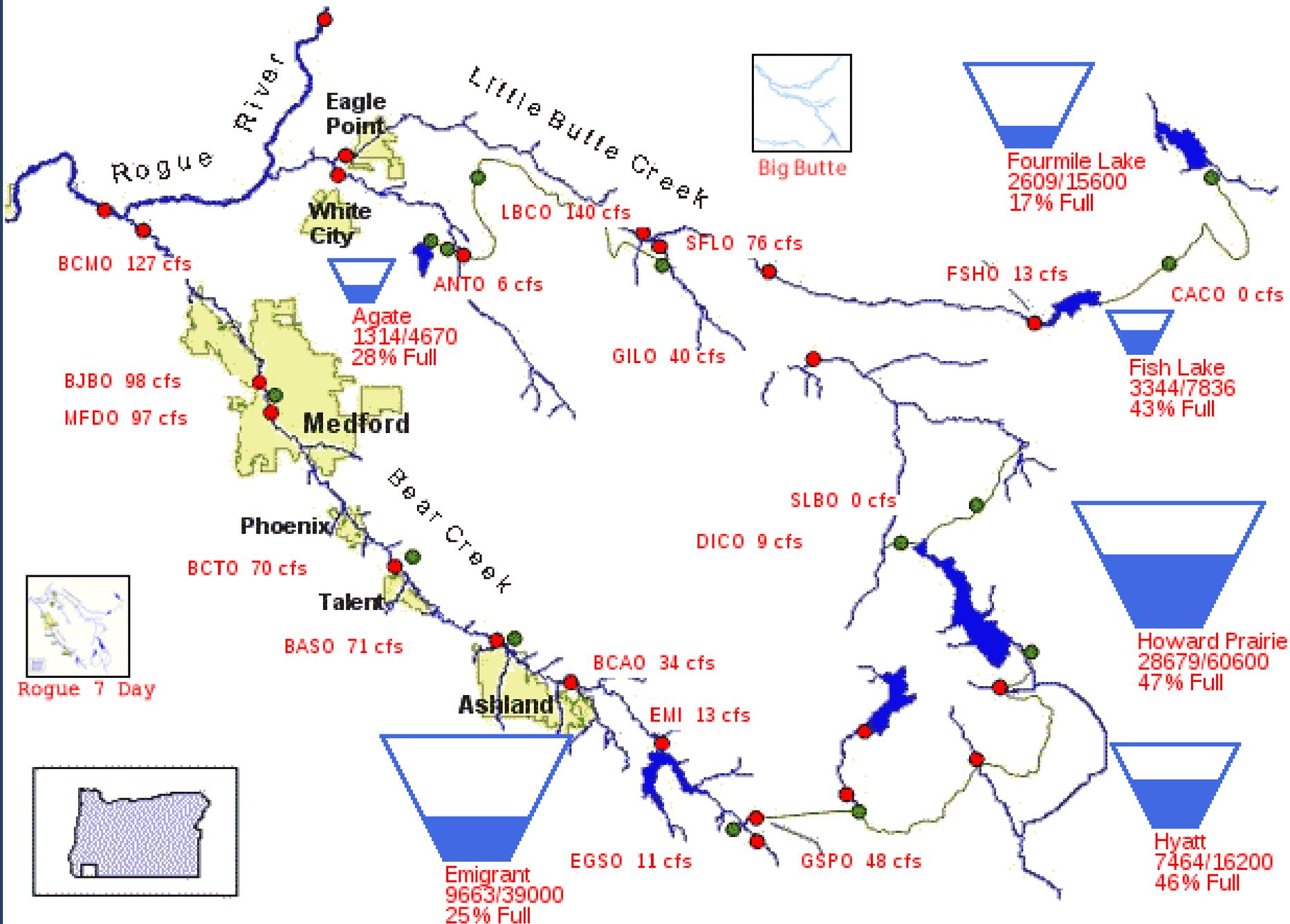


Deschutes ESA

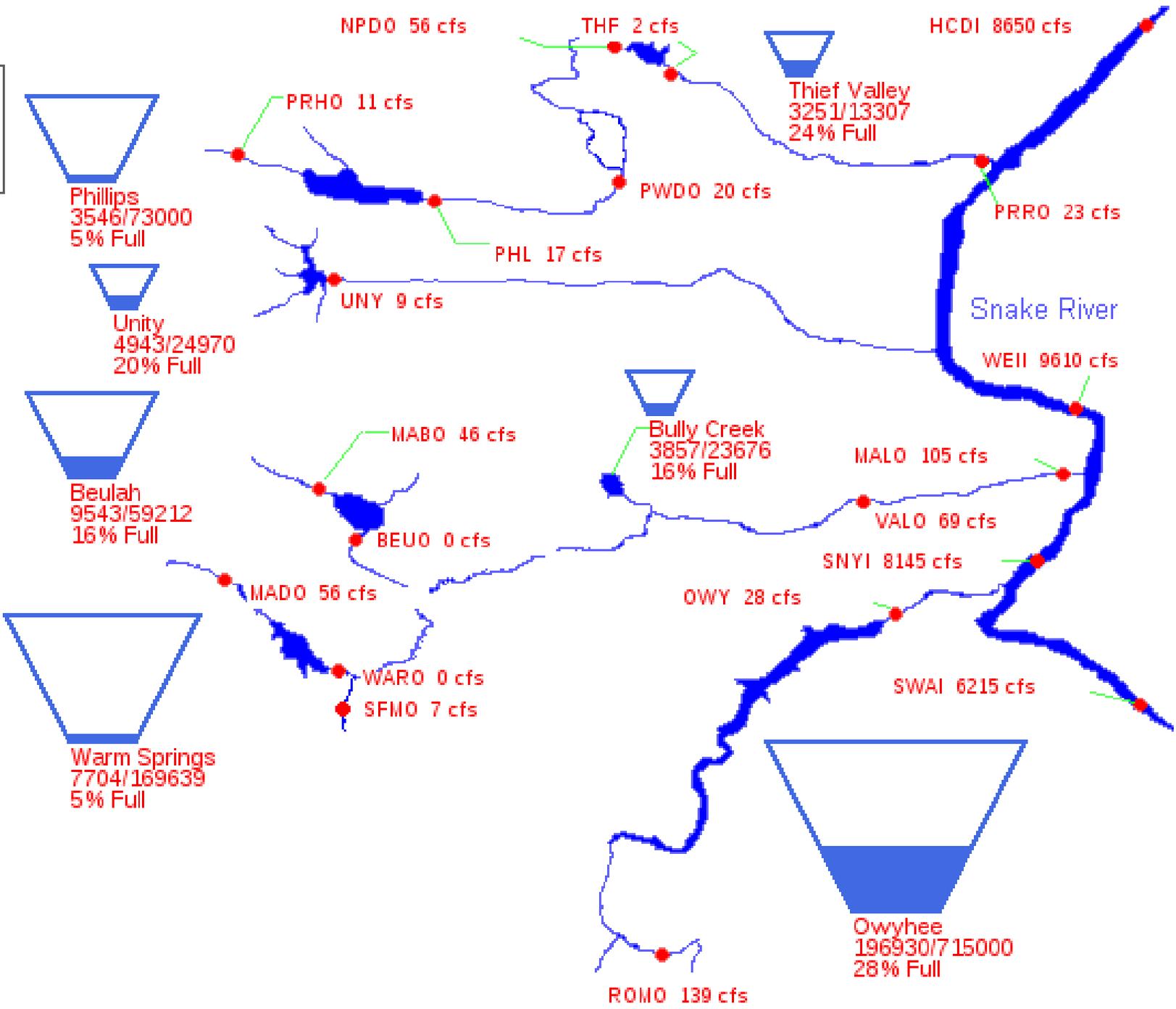
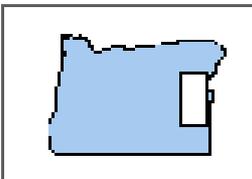


12/07/2016





12/07/2016



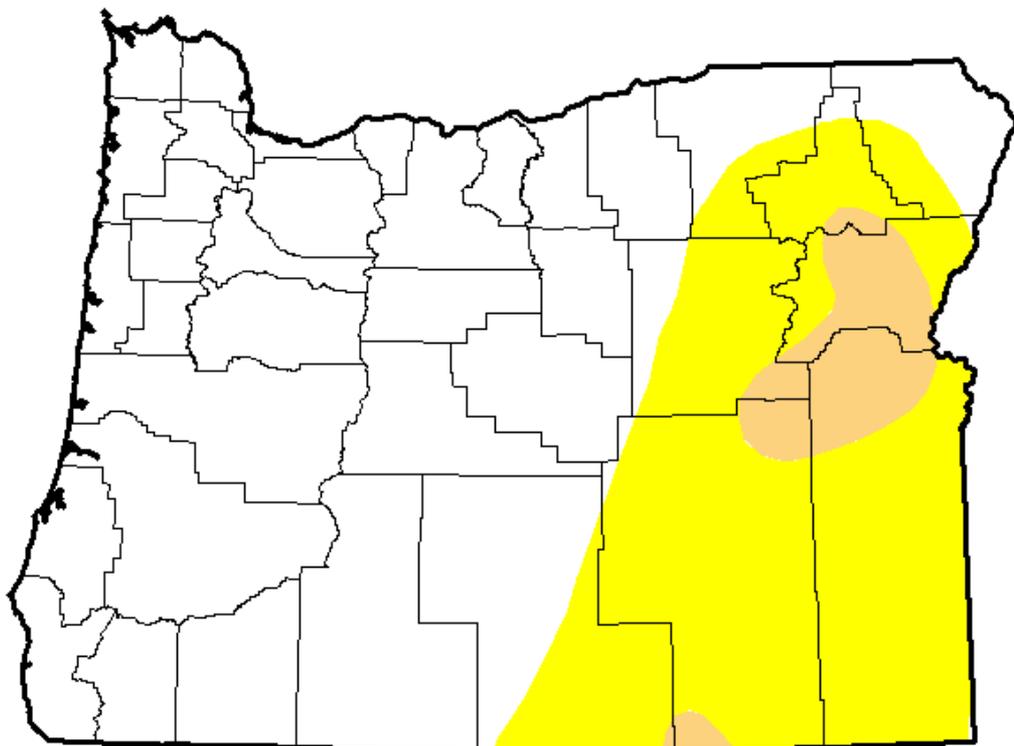
Thank You

U.S. Drought Monitor Oregon

January 3, 2017
(Released Thursday, Jan. 5, 2017)
Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	65.31	34.69	5.29	0.00	0.00	0.00
Last Week <i>12/27/2016</i>	65.31	34.69	5.29	0.00	0.00	0.00
3 Months Ago <i>10/4/2016</i>	0.00	100.00	50.28	12.30	0.00	0.00
Start of Calendar Year <i>1/3/2017</i>	65.31	34.69	5.29	0.00	0.00	0.00
Start of Water Year <i>9/27/2016</i>	0.00	100.00	50.59	12.30	0.00	0.00
One Year Ago <i>1/5/2016</i>	14.52	85.48	76.99	44.33	6.35	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 Miskus
NOAA/NWS/NCEP/CPC



