

Oregon Water Conditions Report January 29, 2018



Statewide snow water equivalent values measured at NRCS SNOTEL sites remain well below normal at 52 percent. This does represent an increase over the last ten days when the statewide value was 38 percent of normal. The Grand Ronde, Powder, Burnt, and Imnaha basins continue to receive the highest amounts of snowpack and are measuring 71 percent of normal. The Klamath and Owyhee basins are measuring the least amount of snowpack at 39 percent of normal.

Oregon statewide water year precipitation at NRCS SNOTEL sites is 92 percent of normal, and has increased slightly over the last 10 days with numerous storms impacting the state. The highest amounts of water year precipitation have been in the Hood, Sandy, and Lower Deschutes basins with 107 percent of normal, while the lowest value is in the Klamath basin at 77 percent of normal for the water year.

Temperatures over the [past two weeks](#) have been warmer than normal. The eastern third of Oregon has seen a trend of warmer than normal temperatures, especially evident in Baker and Malheur County. Over the next [8 to 14 days](#), the NOAA Climate Prediction Center is forecasting an increased probability of above-normal temperatures along with below-normal precipitation across the state.

The NOAA Climate Prediction Center's most recent [three month outlook](#) favors increased chances of below-normal temperatures in the northwestern half of Oregon with equal chances of above or below-normal temperatures for the rest of the state. The precipitation outlook for the same period indicates enhanced probabilities of above-normal precipitation for most of the state. The next outlook will be issued on February 15, 2018.

La Niña conditions are expected to continue (~85-95 percent chance) at least through the Northern Hemisphere winter 2017-18, with a transition to ENSO-neutral most likely during the mid-to-late spring. The [diagnostic discussion](#) issued on January 11, 2018 provides more detail. For the latest discussion on the winter outlook, refer to the [ENSO blog](#) on the climate.gov website. The situation continues to be monitored; any changes will be made to the status by the Climate Prediction Center. The next ENSO Diagnostics Discussion is scheduled for February 8, 2018.

Statewide streamflows for December ended up at less than 65 percent of normal. This is down significantly from 128 percent seen for the month of November. Regionally

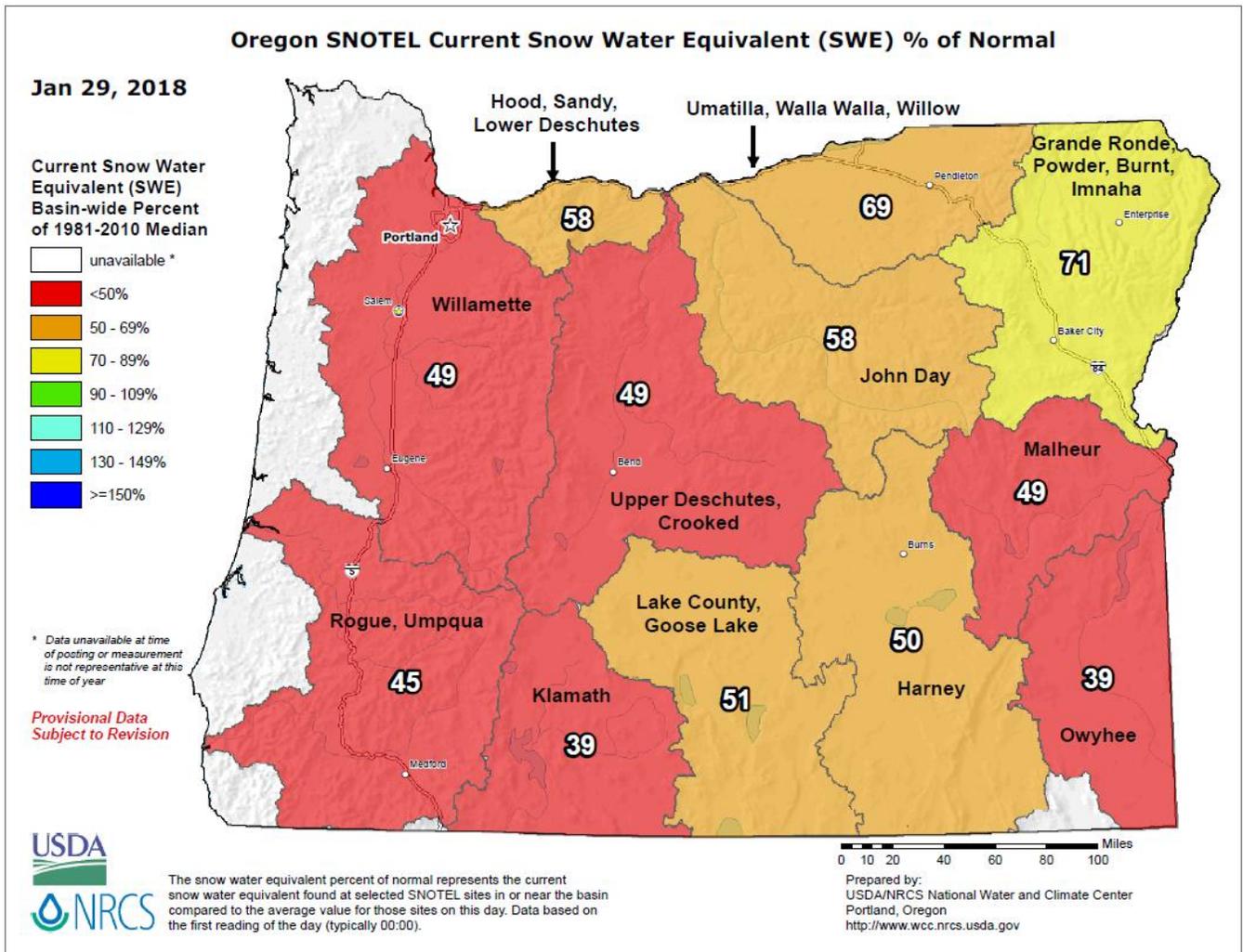
for December, streamflow conditions were 52 percent west of the Cascades and 72 percent east of the Cascades. Recent storm events have increased flows in some areas but conditions continue to indicate that flows for the month of January have been lower than normal flows across the state, especially west of the Cascades.

Most of the state’s water supply reservoirs are at normal levels for this time of year. [Willamette](#) and [Rogue](#) project reservoirs remain on track this fall. [Central Oregon](#) reservoirs are between 46 and 89 percent of capacity. [Eastern Oregon](#) reservoirs continue to hover between 41 and 68 percent of capacity. Most if not all water supply reservoir operators are now in active storage mode. For the most recent near real-time, site-specific reservoir conditions (teacup diagrams) visit the [USBR](#) or [USACE](#) websites.

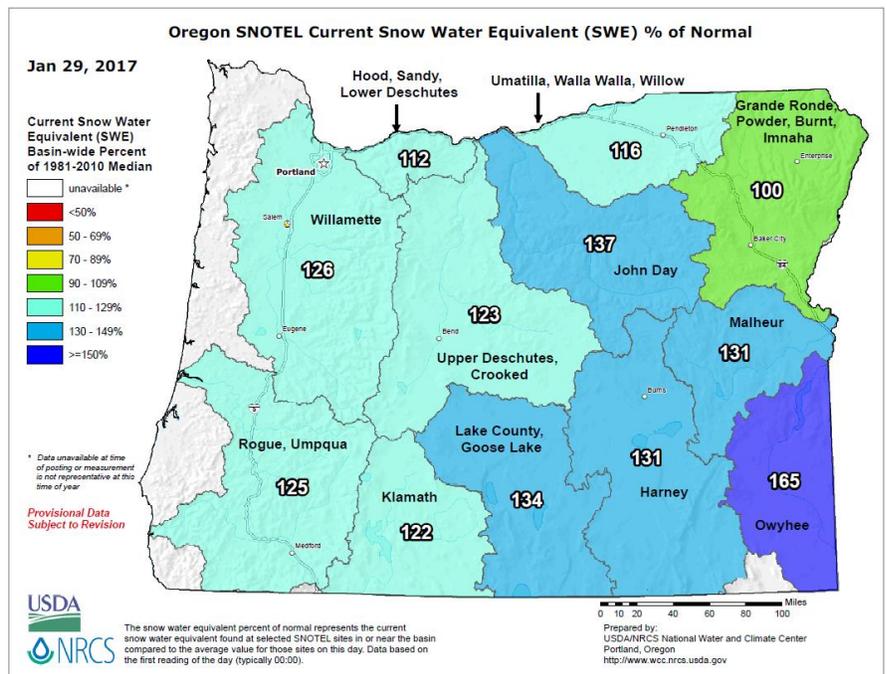
The [US Drought Monitor](#) has been updated again recently. The January 23, 2018 report indicates that percent of Oregon is now listed as “Abnormally Dry” (D0). In addition, 11 percent of the state is now listed as in “Moderate Drought” (D1).

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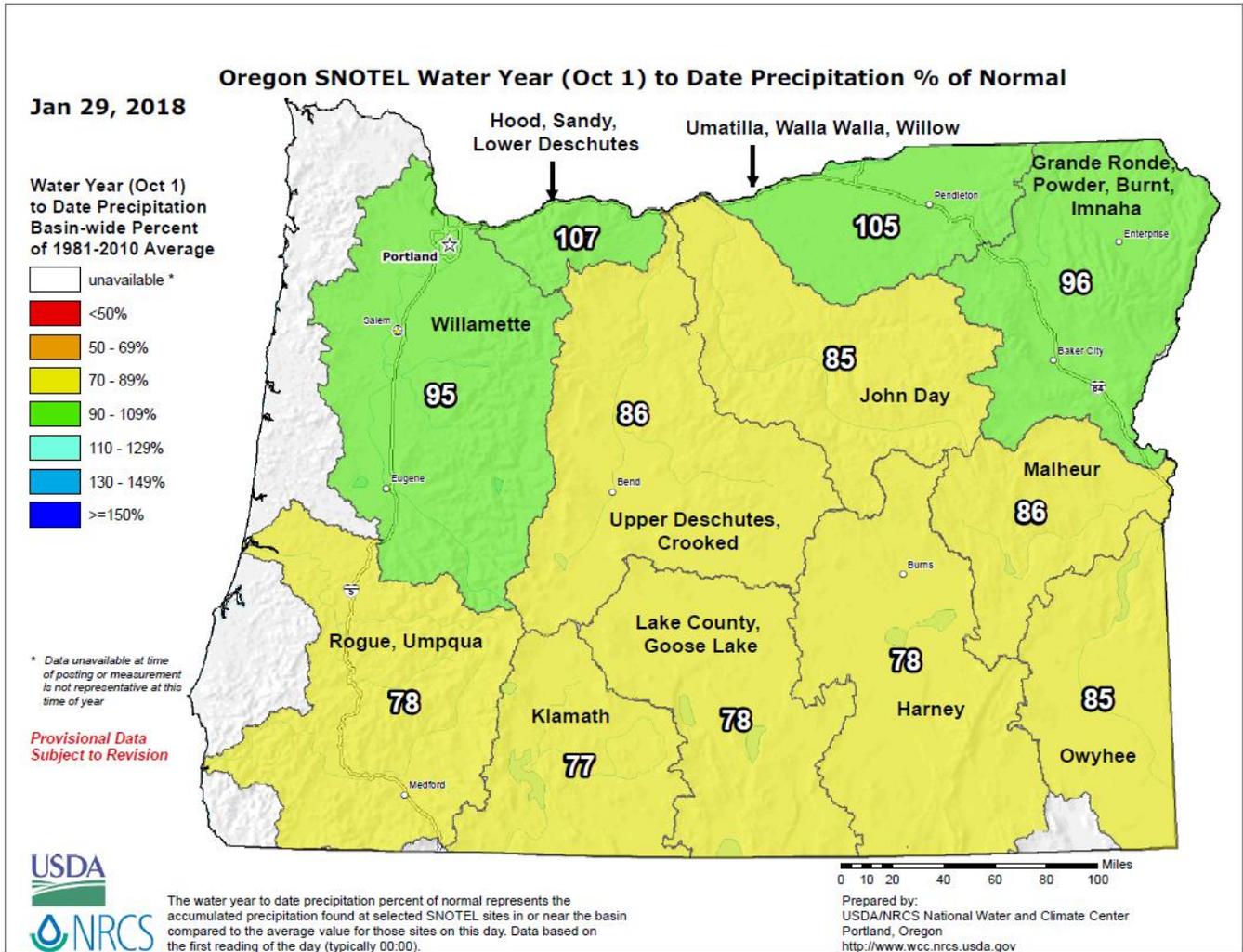
Snow Water Equivalent – Percent of Normal



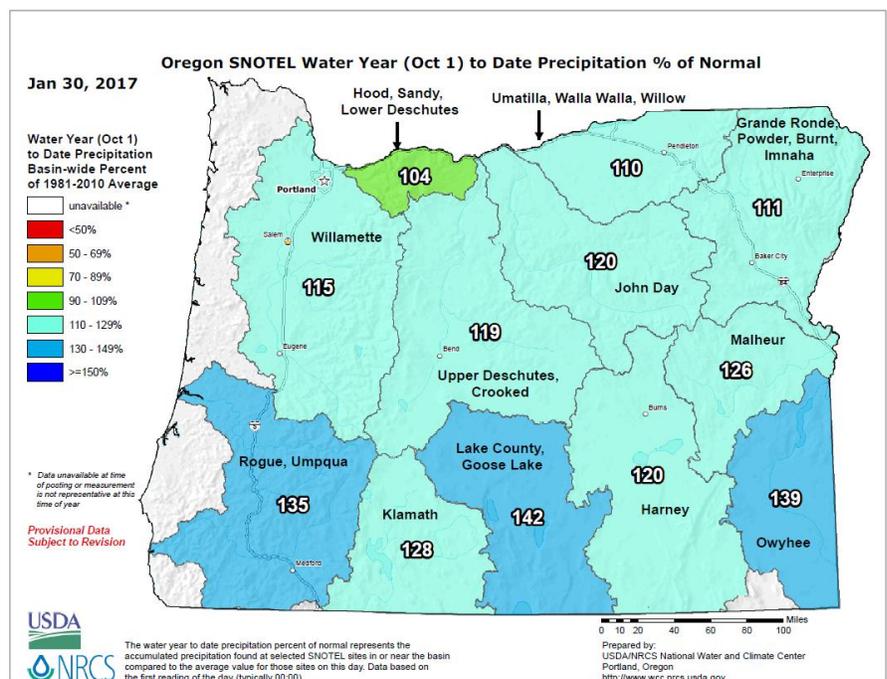
Compared to this time last year -



Precipitation (mountain) - Percent of Normal



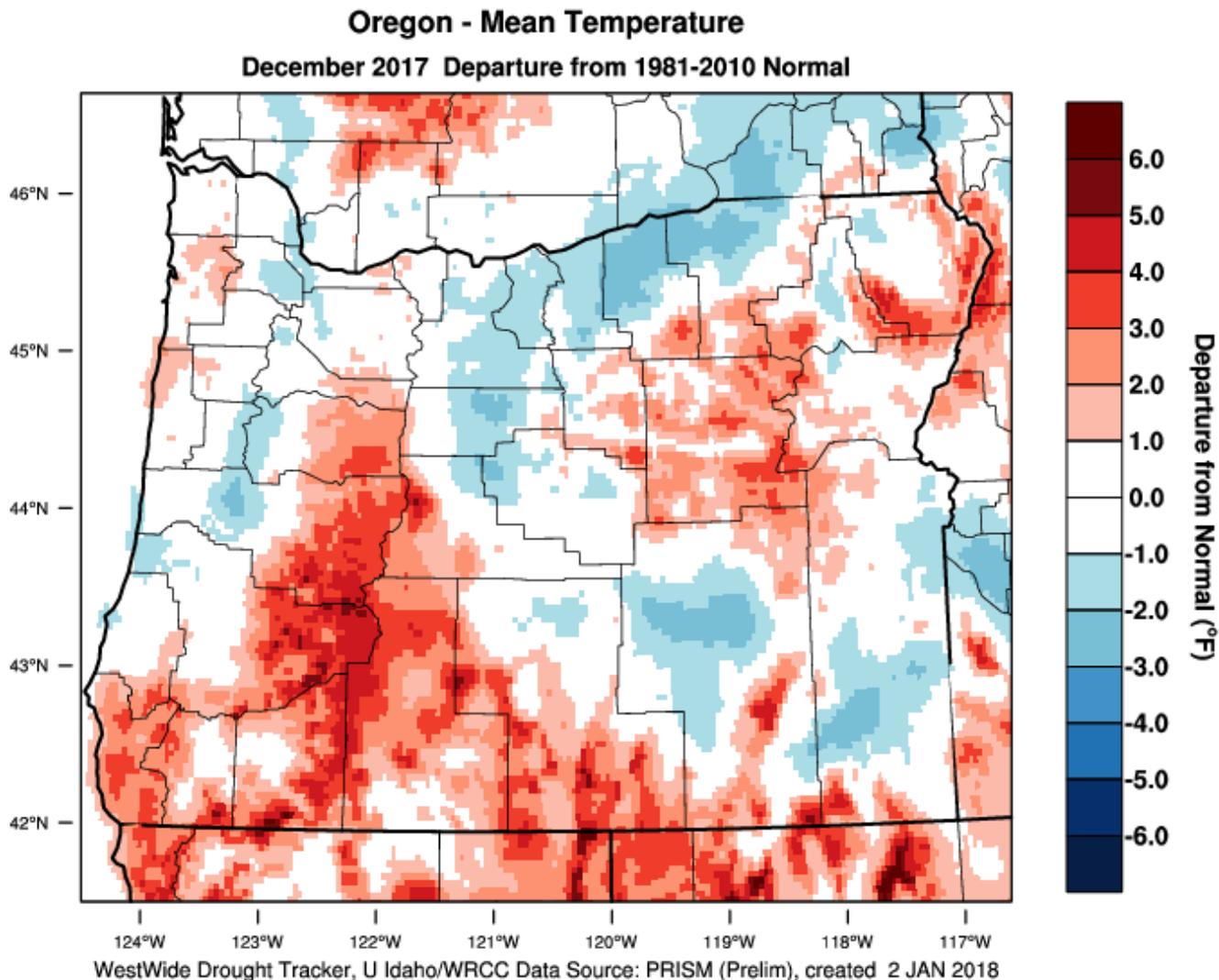
Compared to this time last year -



Temperature – (1 Month) Departure from Normal

Website: <http://www.wrcc.dri.edu/wwdt/index.php?folder=mdn1>

PRISM > Temperature Anomaly 1 Month > Oregon



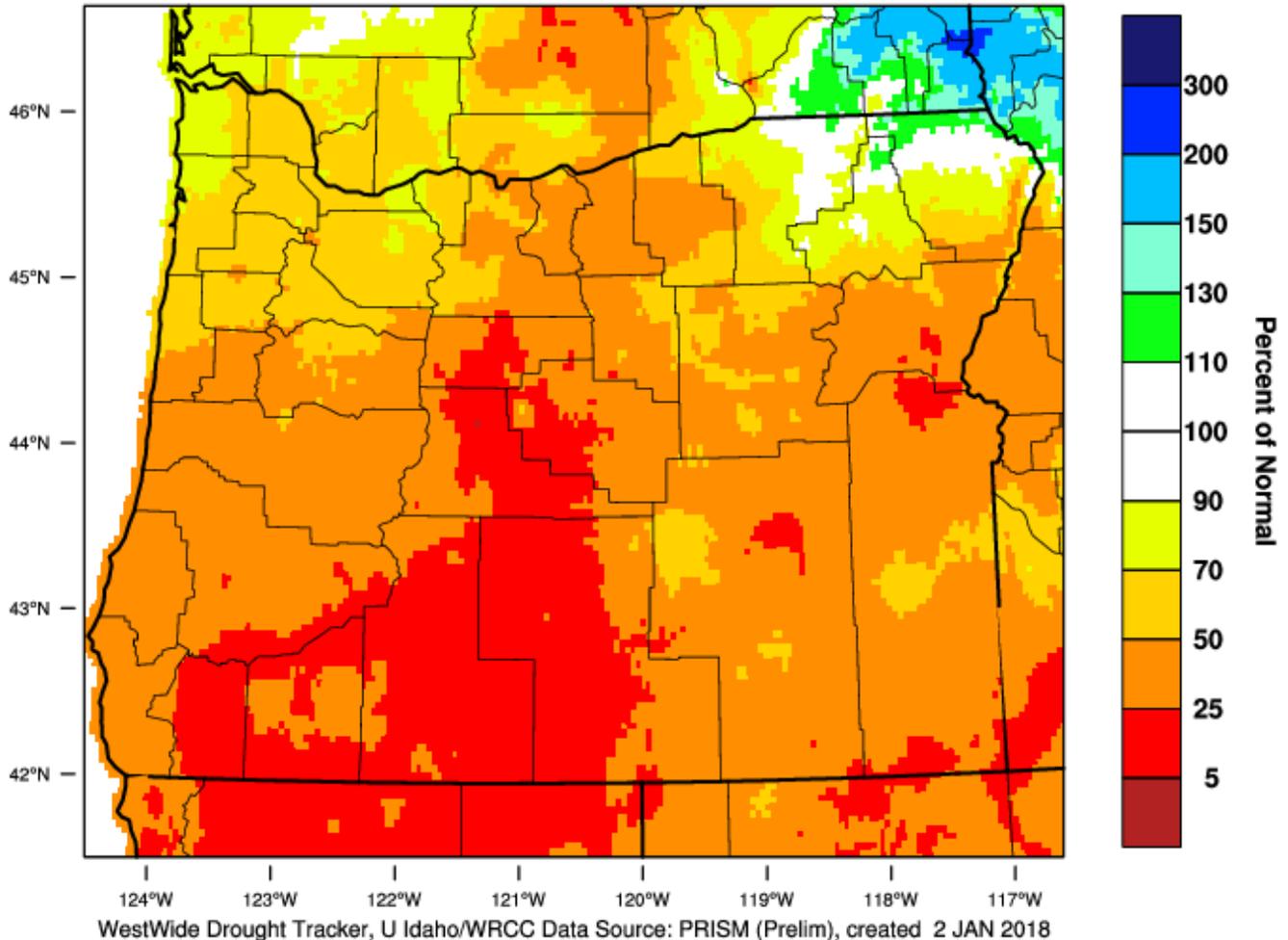
Precipitation – (1 Month) Percent of Normal

Website: <http://www.wrcc.dri.edu/wwdt/index.php?folder=pon1>

PRISM > Precipitation Anomaly 1 Month > Oregon

Oregon - Precipitation

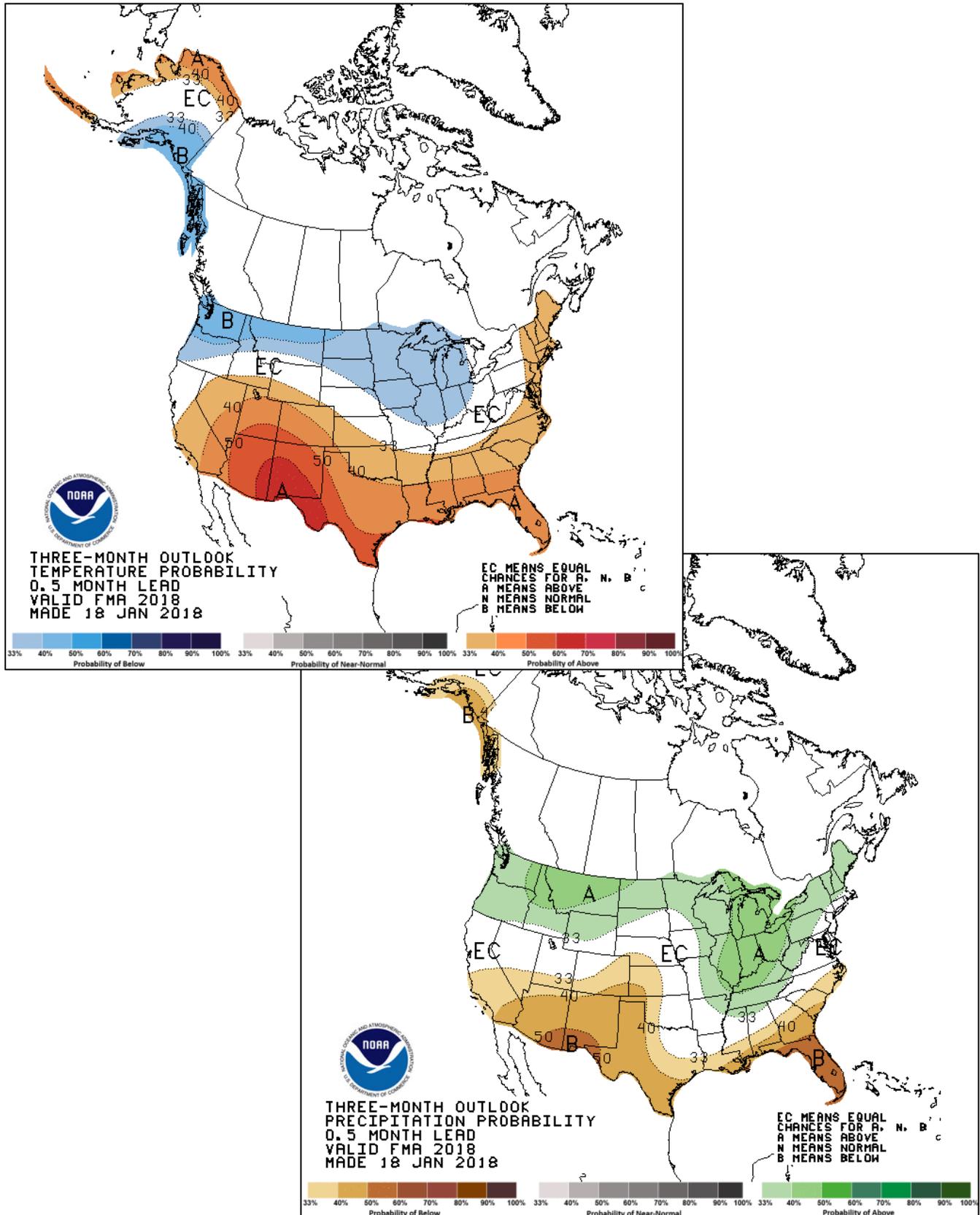
December 2017 Percent of 1981-2010 Normal



Three Month Temperature and Precipitation Outlook

February through April Outlook - Follow link for the latest information.

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

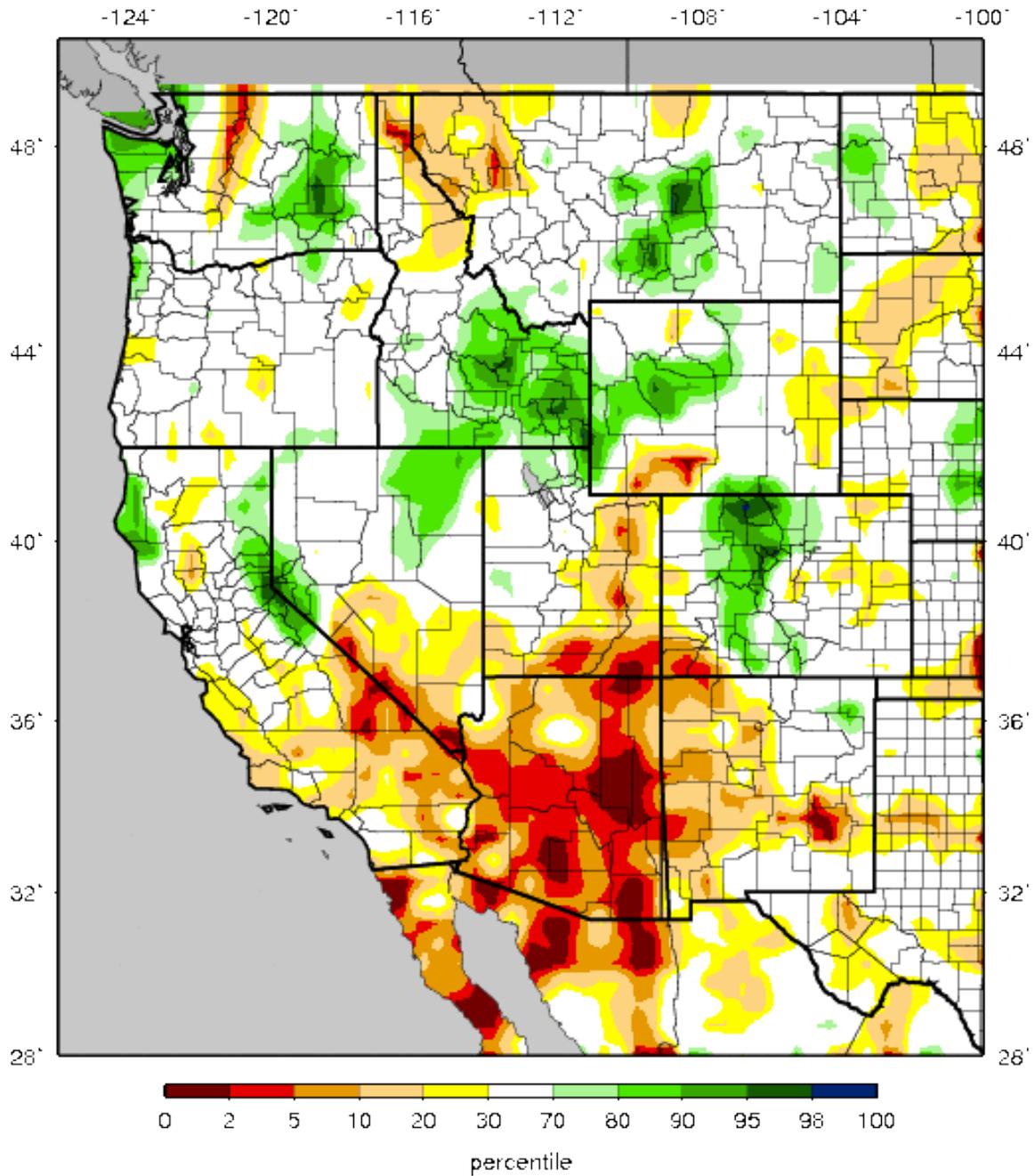


Soil Moisture - Percentile

Website:

http://www.hydro.washington.edu/forecast/monitor/curr/conus.mexico/west.vic.sm_qnt.gif

VIC Soil Moisture Percentiles (wrt/ 1916-2004)
Western United States - 20180128

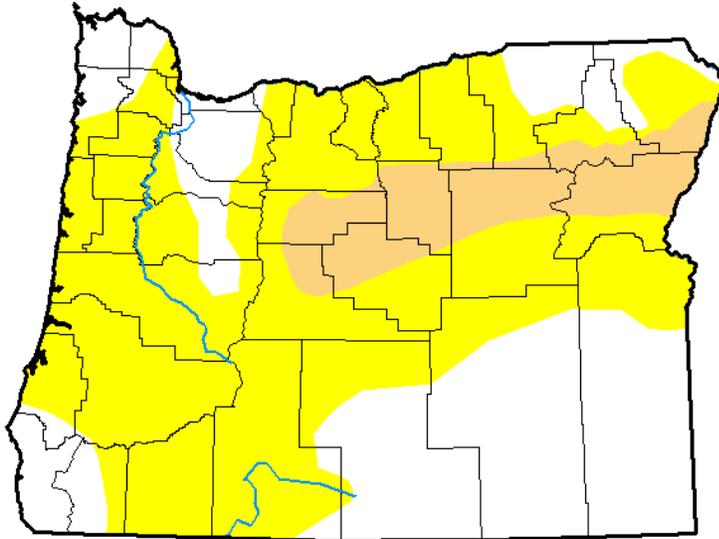


U.S. Drought Monitor for Oregon

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

U.S. Drought Monitor Oregon

January 23, 2018
(Released Thursday, Jan. 25, 2018)
Valid 7 a.m. EST



Drought Conditions (Percent Area)

| | None | D0-D4 | D1-D4 | D2-D4 | D3-D4 | D4 |
|--|--------|-------|-------|-------|-------|------|
| Current | 34.61 | 65.39 | 11.00 | 0.00 | 0.00 | 0.00 |
| Last Week <i>01-16-2018</i> | 34.61 | 65.39 | 11.00 | 0.00 | 0.00 | 0.00 |
| 3 Months Ago <i>10-24-2017</i> | 59.56 | 40.44 | 0.00 | 0.00 | 0.00 | 0.00 |
| Start of Calendar Year <i>01-02-2018</i> | 100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Start of Water Year <i>09-26-2017</i> | 39.23 | 60.77 | 28.57 | 0.00 | 0.00 | 0.00 |
| One Year Ago <i>01-24-2017</i> | 82.27 | 17.73 | 2.98 | 0.00 | 0.00 | 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:

Richard Heim
NCEI/NOAA

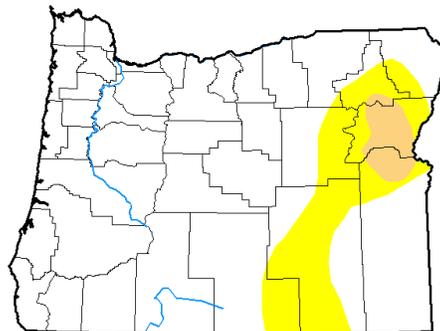


<http://droughtmonitor.unl.edu/>

Compared to this time last year:

U.S. Drought Monitor Oregon

January 24, 2017
(Released Thursday, Jan. 26, 2017)
Valid 7 a.m. EST



Drought Conditions (Percent Area)

| | None | D0-D4 | D1-D4 | D2-D4 | D3-D4 | D4 |
|--|-------|--------|-------|-------|-------|------|
| Current | 82.27 | 17.73 | 2.98 | 0.00 | 0.00 | 0.00 |
| Last Week <i>01-17-2017</i> | 82.27 | 17.73 | 2.98 | 0.00 | 0.00 | 0.00 |
| 3 Months Ago <i>10-25-2016</i> | 52.91 | 47.09 | 28.96 | 2.63 | 0.00 | 0.00 |
| Start of Calendar Year <i>01-03-2017</i> | 65.31 | 34.69 | 5.29 | 0.00 | 0.00 | 0.00 |
| Start of Water Year <i>09-27-2016</i> | 0.00 | 100.00 | 50.59 | 12.30 | 0.00 | 0.00 |
| One Year Ago <i>01-26-2016</i> | 14.63 | 85.37 | 74.69 | 40.94 | 4.32 | 0.00 |

Intensity:

- D0 Abnormally Dry
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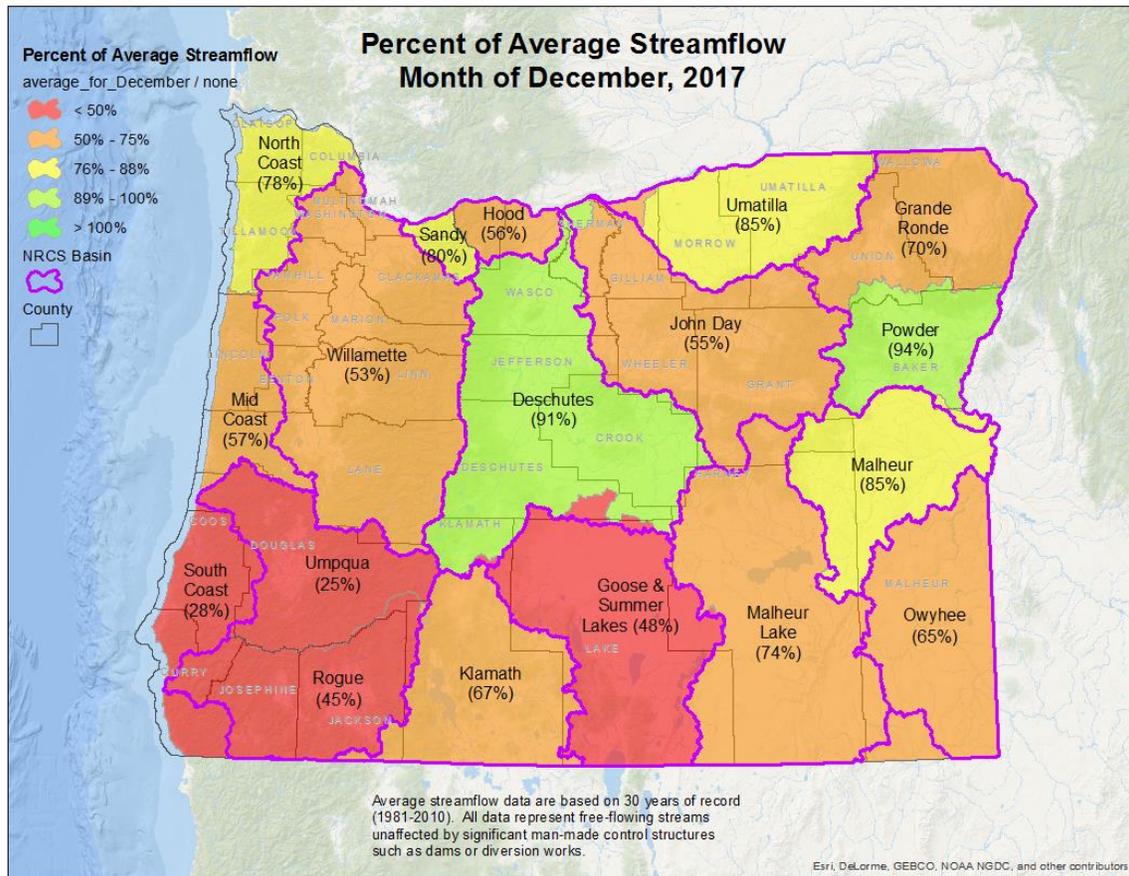
Author:

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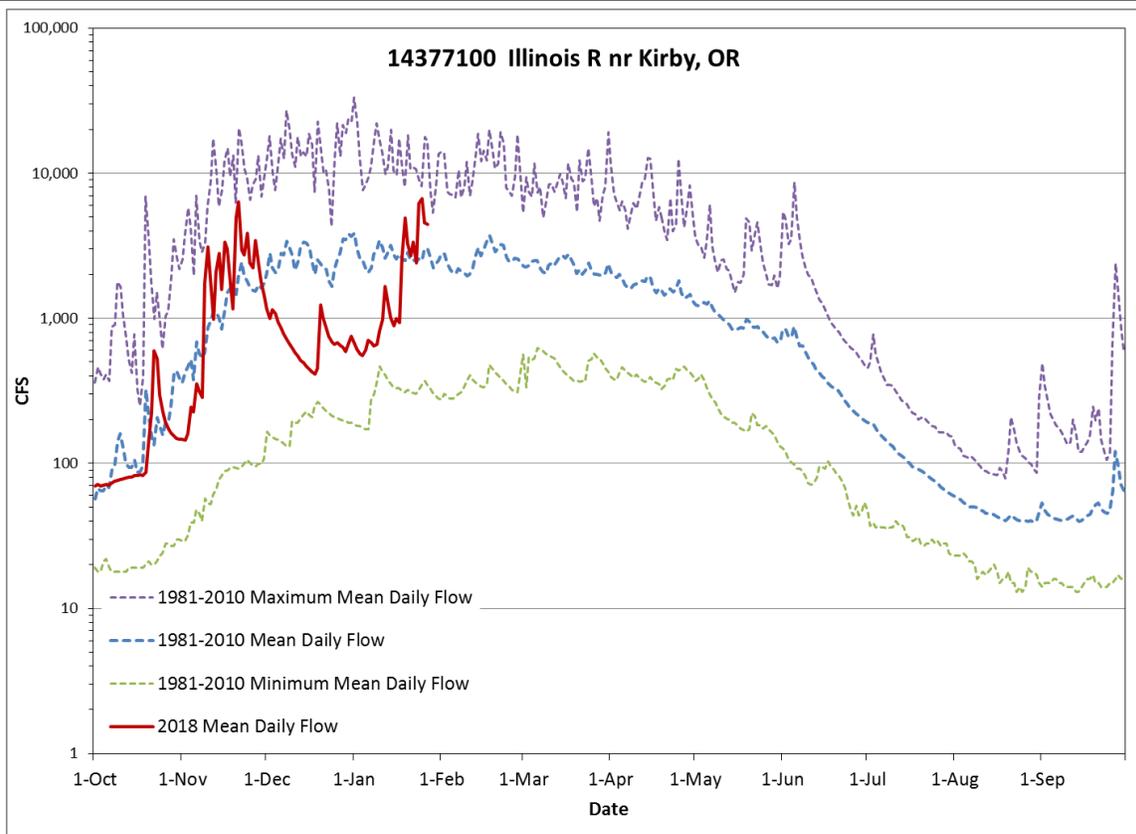


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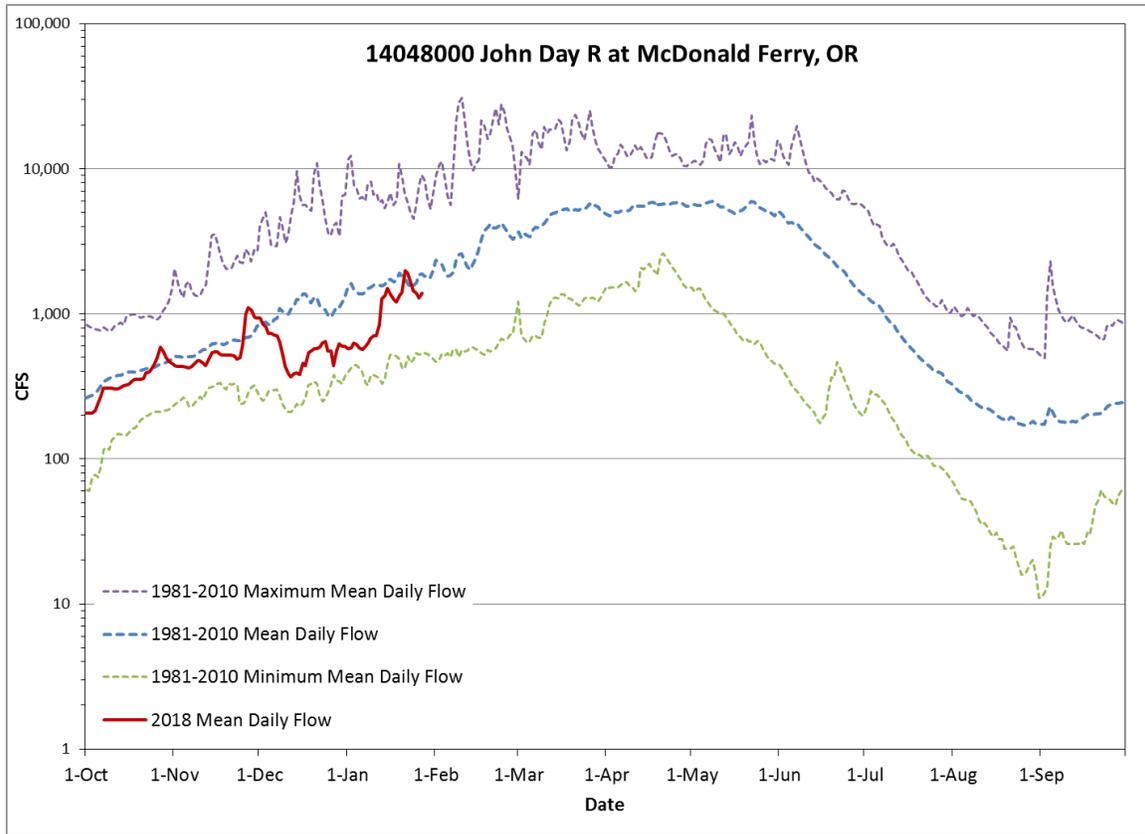
Statewide Streamflow Conditions - December



Streamflow Conditions – Rogue



Streamflow Conditions – John Day



Statewide Reservoir Conditions - December

