

# Oregon Water Conditions Report



September 6<sup>th</sup>, 2022

## HIGHLIGHTS

There have been no additional state or federal drought designations over recent weeks. Thus far in 2022, [17 Oregon counties](#) have received state drought declarations under ORS 536, while 29 counties have received [USDA crop disaster designations](#) due to drought.

There have been no new changes to the [US Drought Monitor](#) over recent weeks due to little change in terms of streamflow and soil moisture.

[August precipitation](#) was variable throughout Oregon, although much of the state received well below average precipitation. Precipitation in parts of southeastern Oregon ranged from average to well above average, [with some areas receiving about an inch](#).

[August temperatures](#) were well above the long-term average statewide, particularly so in central and eastern Oregon. Temperatures ranged from 3 °F to greater than 6 °F above average. Much of central and eastern Oregon recorded the [warmest August on record](#).

[Soil moisture profiles](#) continue to measure below to well below average throughout much of the state. Parts of northwest and southwest Oregon are measuring above average soil moisture.

The [three-month climate outlook](#) for September through November indicates probabilities favoring near average precipitation and above average temperatures statewide. The [8-14-day outlook](#) favors above average precipitation and below average temperatures throughout the state.

[Streamflows throughout August](#) were variable across Oregon. While many counties measured average to above average streamflow, many streams in eastern Oregon measured below to well below average. See below for more information.

Reservoir storage outside of the Willamette and Umatilla basins ([USACE](#)) is measuring well below average in [USBR](#) systems (including [Klamath](#)). Storage releases for demands have ceased in some systems and are projected to end soon in others. Many reservoirs are projected to begin next water year with little to no carryover.

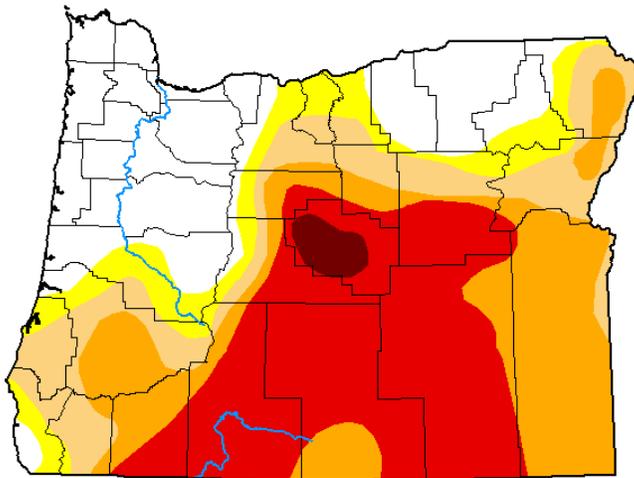
[Significant wildfire potential](#) in September ranges from normal to above normal throughout Oregon and the Pacific Northwest. Potential is above average in much of central Oregon, as well as the southwester portion of the state.

## DROUGHT CONDITIONS

Over 65% of Oregon is classified as experiencing moderate (D1) to exceptional (D4) drought, according to the US Drought Monitor, which reflects no change in coverage or severity over recent weeks.

### U.S. Drought Monitor Oregon

**August 30, 2022**  
(Released Thursday, Sep. 1, 2022)  
Valid 8 a.m. EDT



Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
<b>Current</b>	24.93	75.07	65.71	52.22	30.73	1.40
<b>Last Week</b> 08-23-2022	25.02	74.98	65.52	52.22	30.73	1.40
<b>3 Months Ago</b> 05-31-2022	18.70	81.30	73.06	63.39	47.22	11.81
<b>Start of Calendar Year</b> 01-04-2022	4.16	95.84	89.75	75.37	50.84	17.27
<b>Start of Water Year</b> 09-28-2021	0.00	100.00	100.00	96.47	72.10	26.59
<b>One Year Ago</b> 08-31-2021	0.00	100.00	100.00	99.07	76.69	26.59

Intensity:

- None
- 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. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

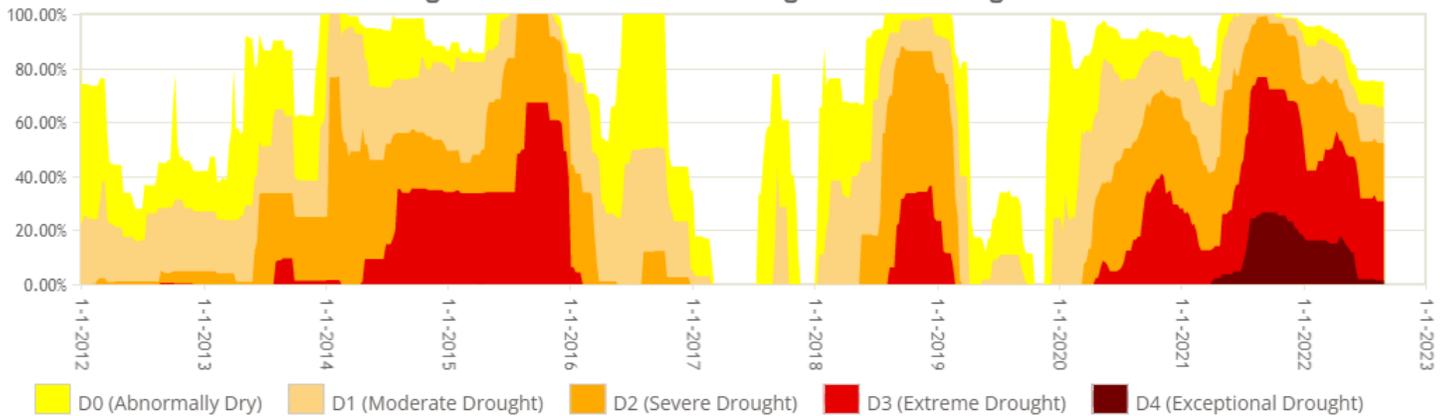
Author:

Deborah Bathke  
National Drought Mitigation Center

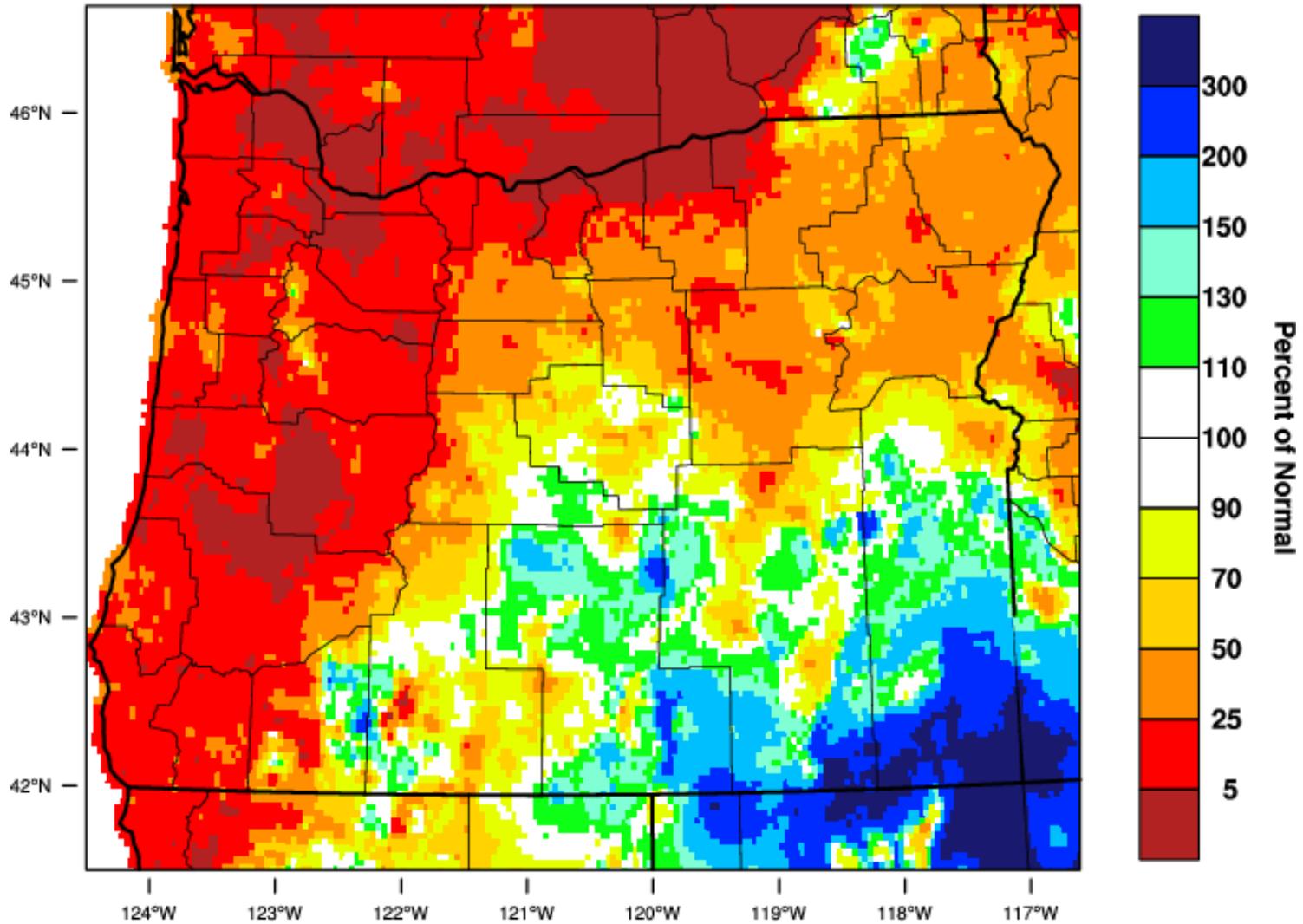


[droughtmonitor.unl.edu](https://droughtmonitor.unl.edu)

### Oregon Percent Area in U.S. Drought Monitor Categories



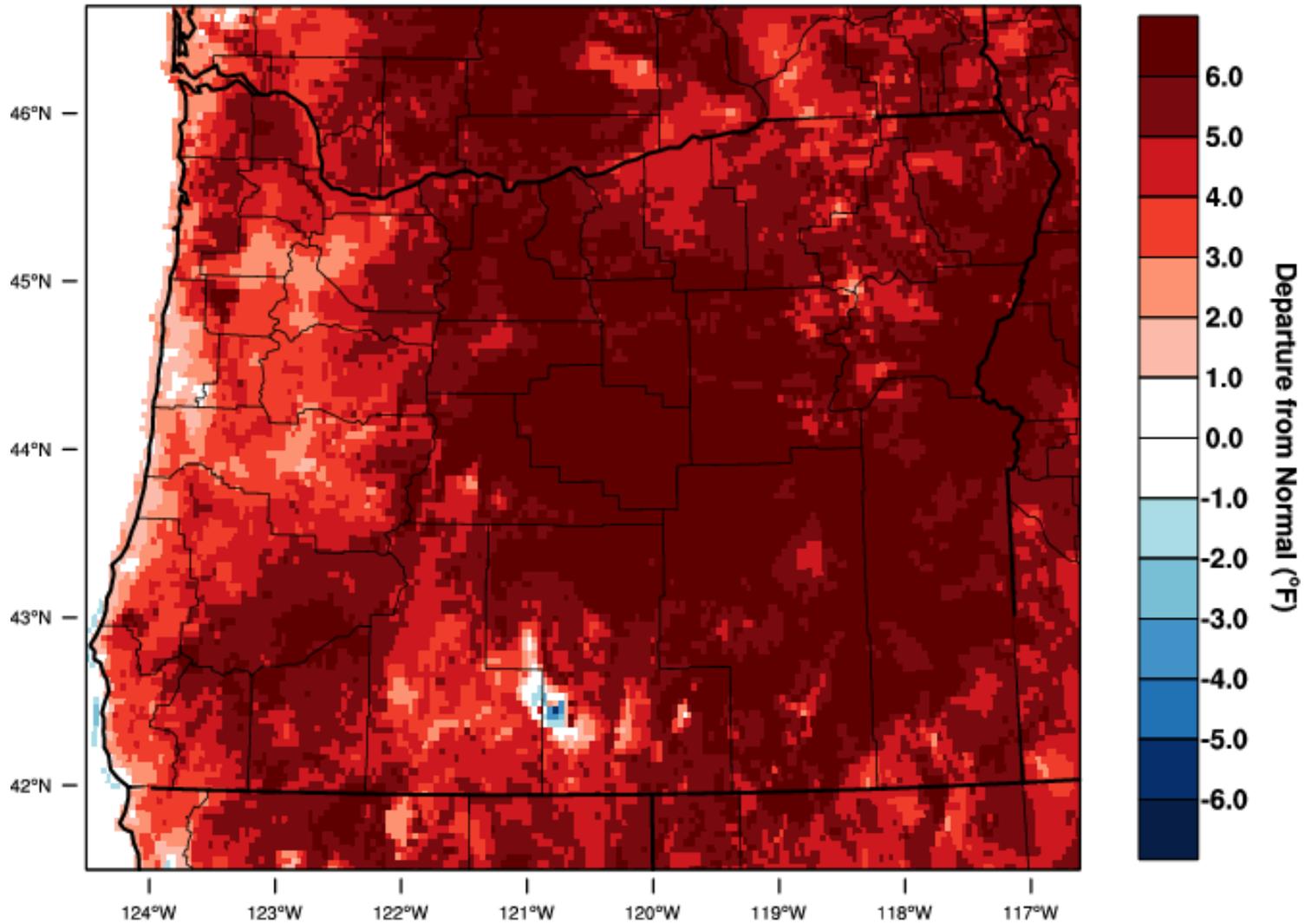
### Oregon - Precipitation August 2022 Percent of 1981-2010 Normal



WestWide Drought Tracker, U Idaho/WRCC Data Source: PRISM (Prelim), created 5 SEP 2022

### Oregon - Mean Temperature

August 2022 Departure from 1981-2010 Normal

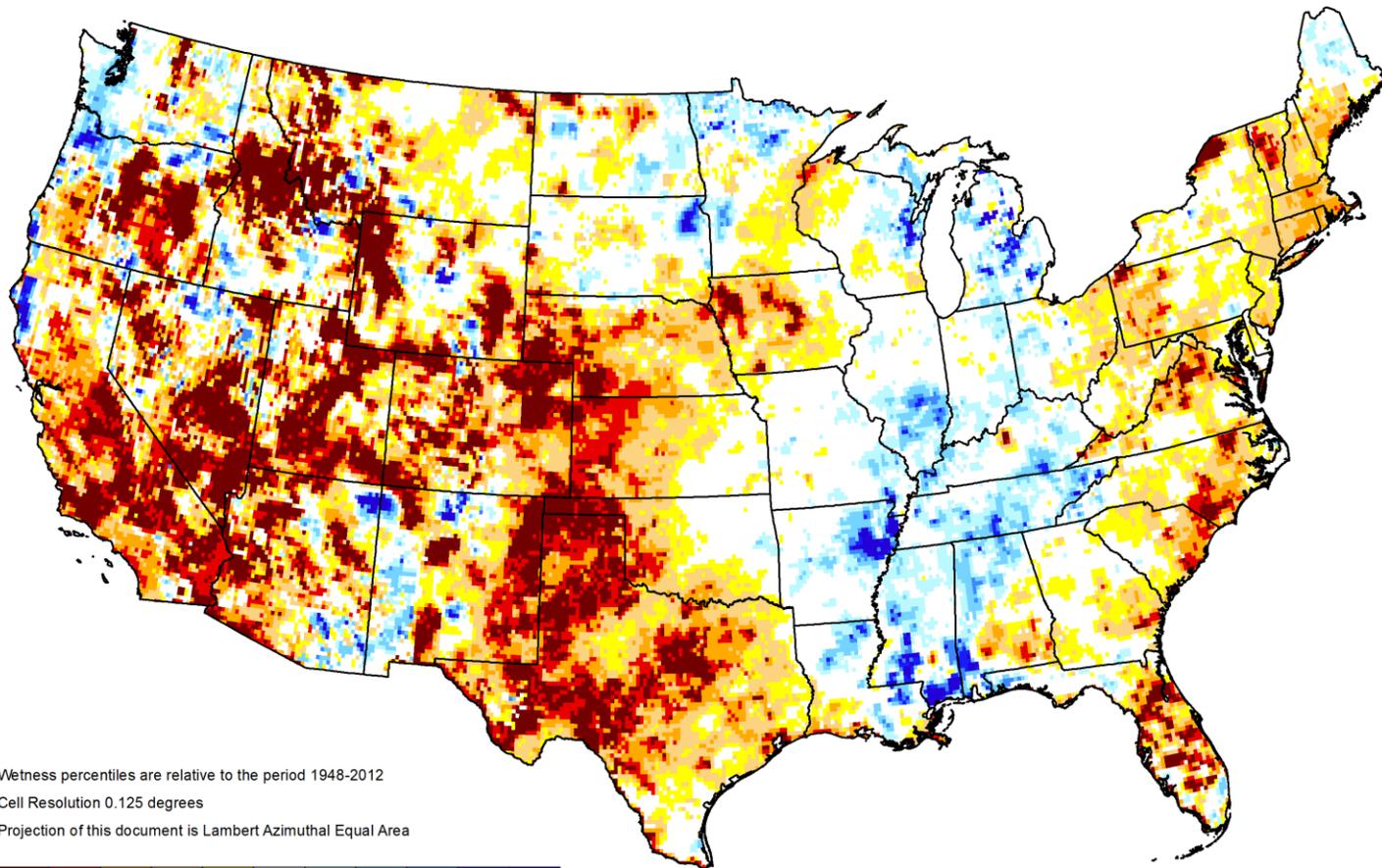


WestWide Drought Tracker, U Idaho/WRCC Data Source: PRISM (Prelim), created 5 SEP 2022

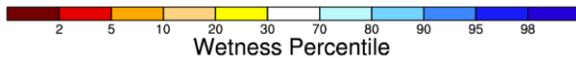


# GRACE-Based Shallow Groundwater Drought Indicator

September 05, 2022



Wetness percentiles are relative to the period 1948-2012  
Cell Resolution 0.125 degrees  
Projection of this document is Lambert Azimuthal Equal Area



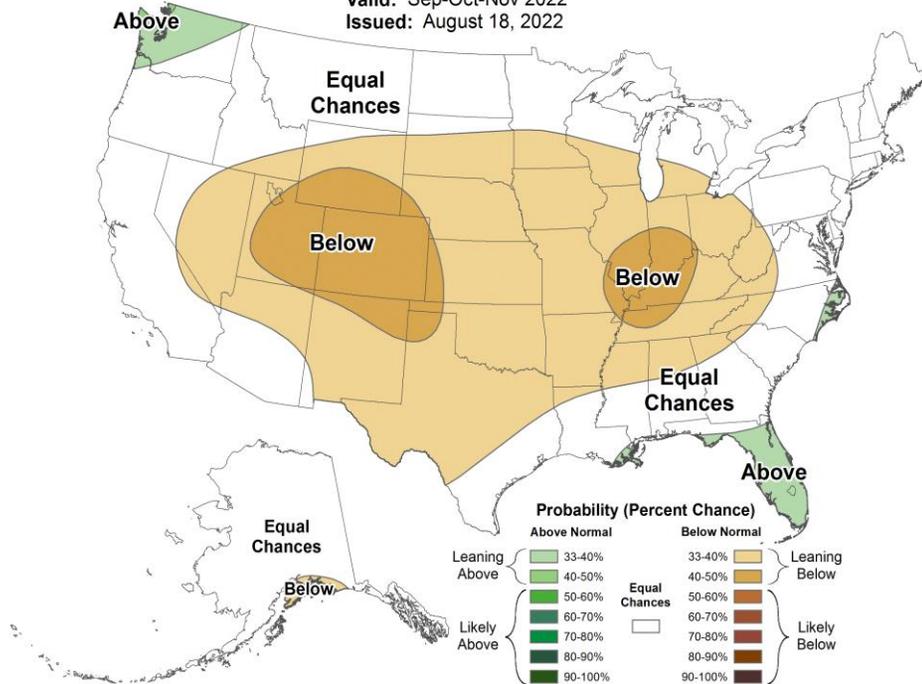
<https://nasagrace.unl.edu>



## Seasonal Precipitation Outlook



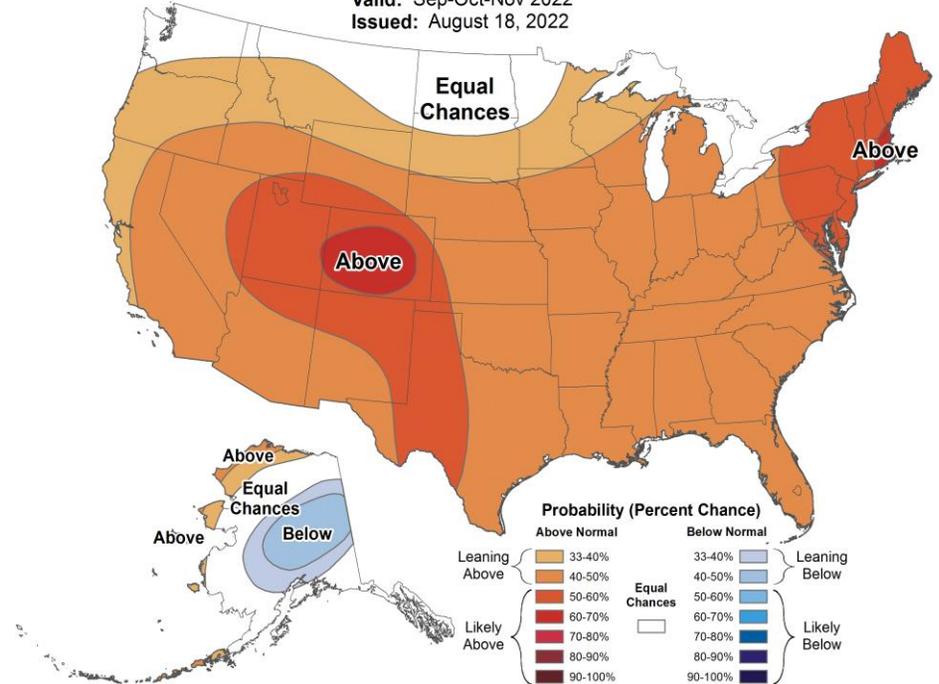
Valid: Sep-Oct-Nov 2022  
 Issued: August 18, 2022



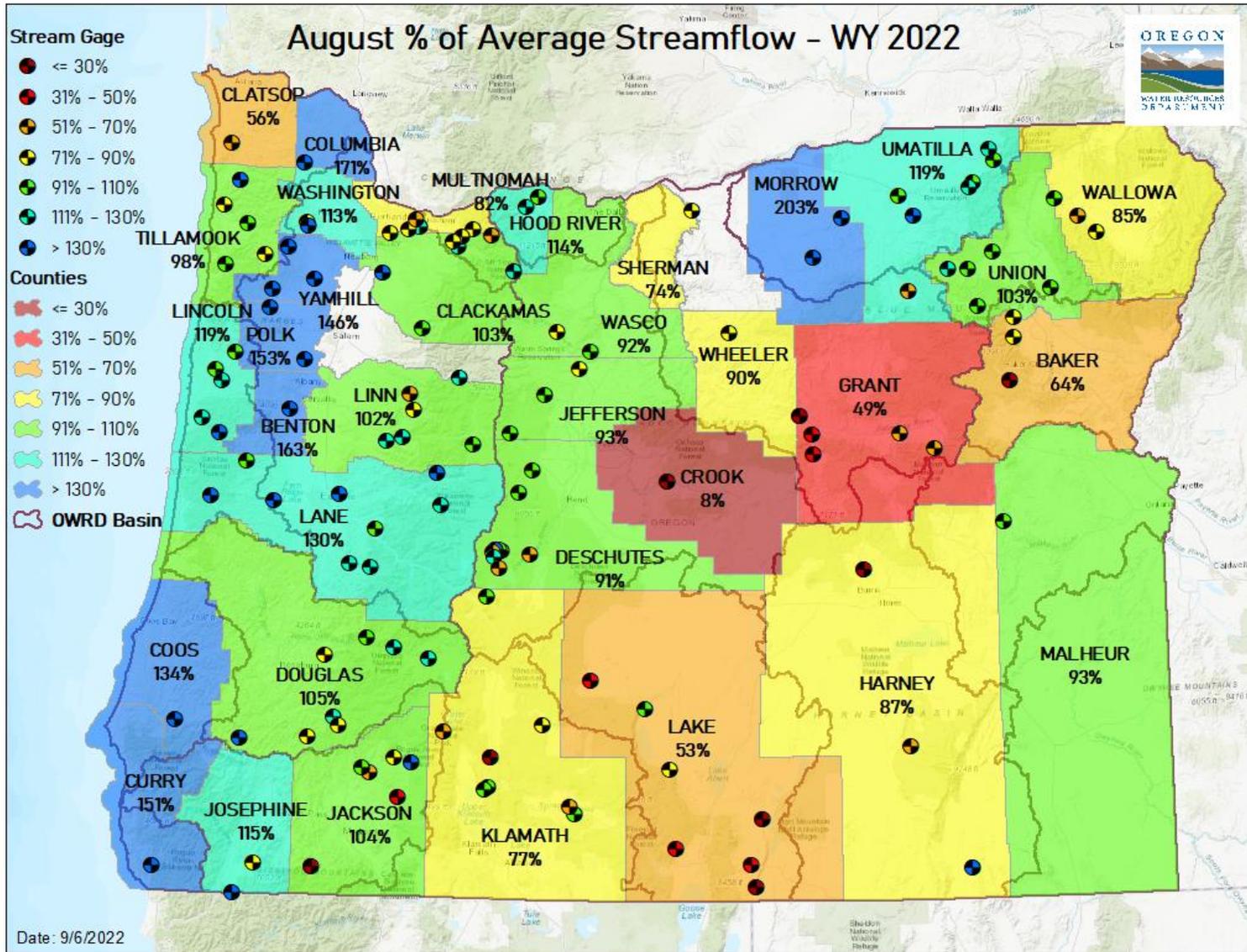
## Seasonal Temperature Outlook

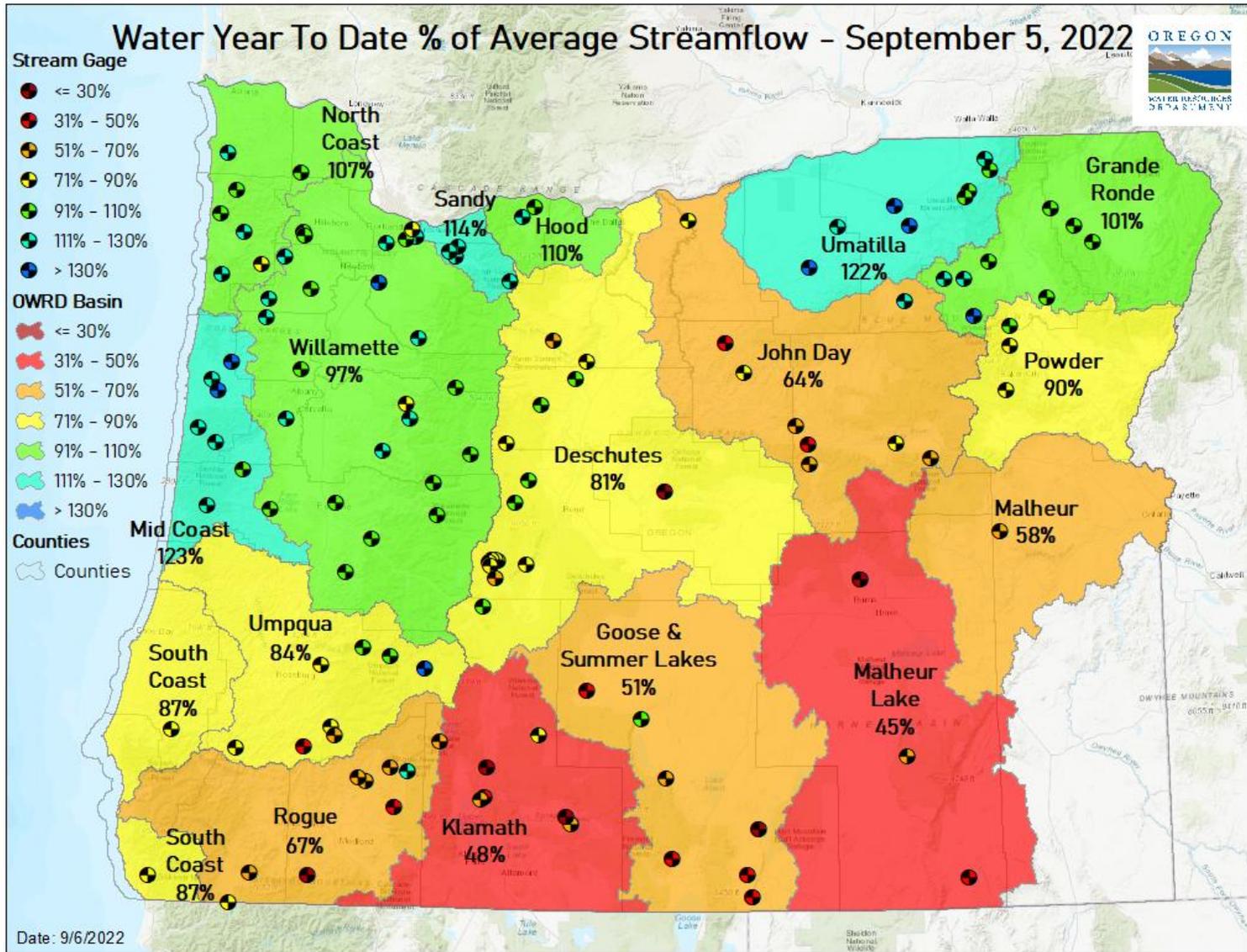


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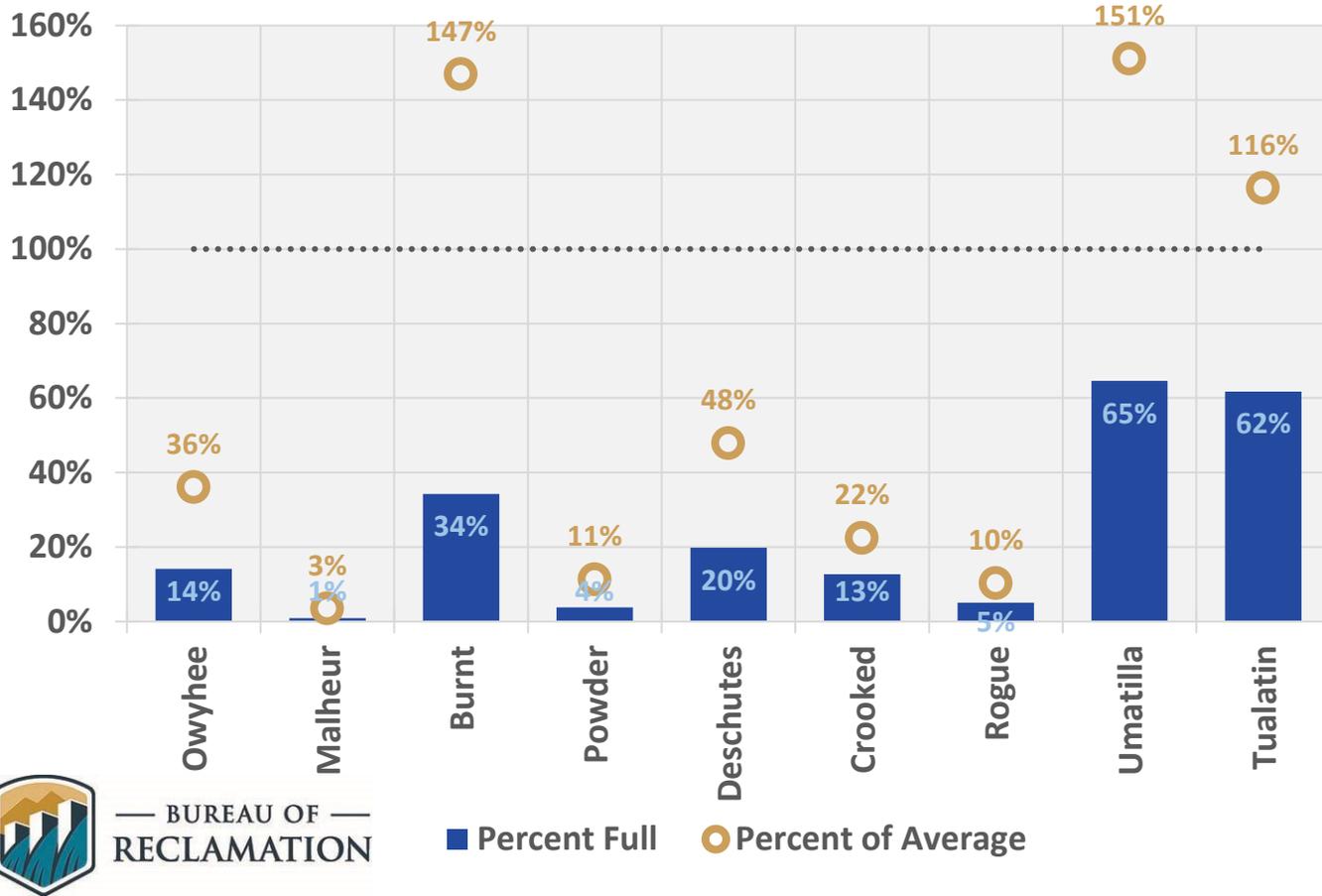


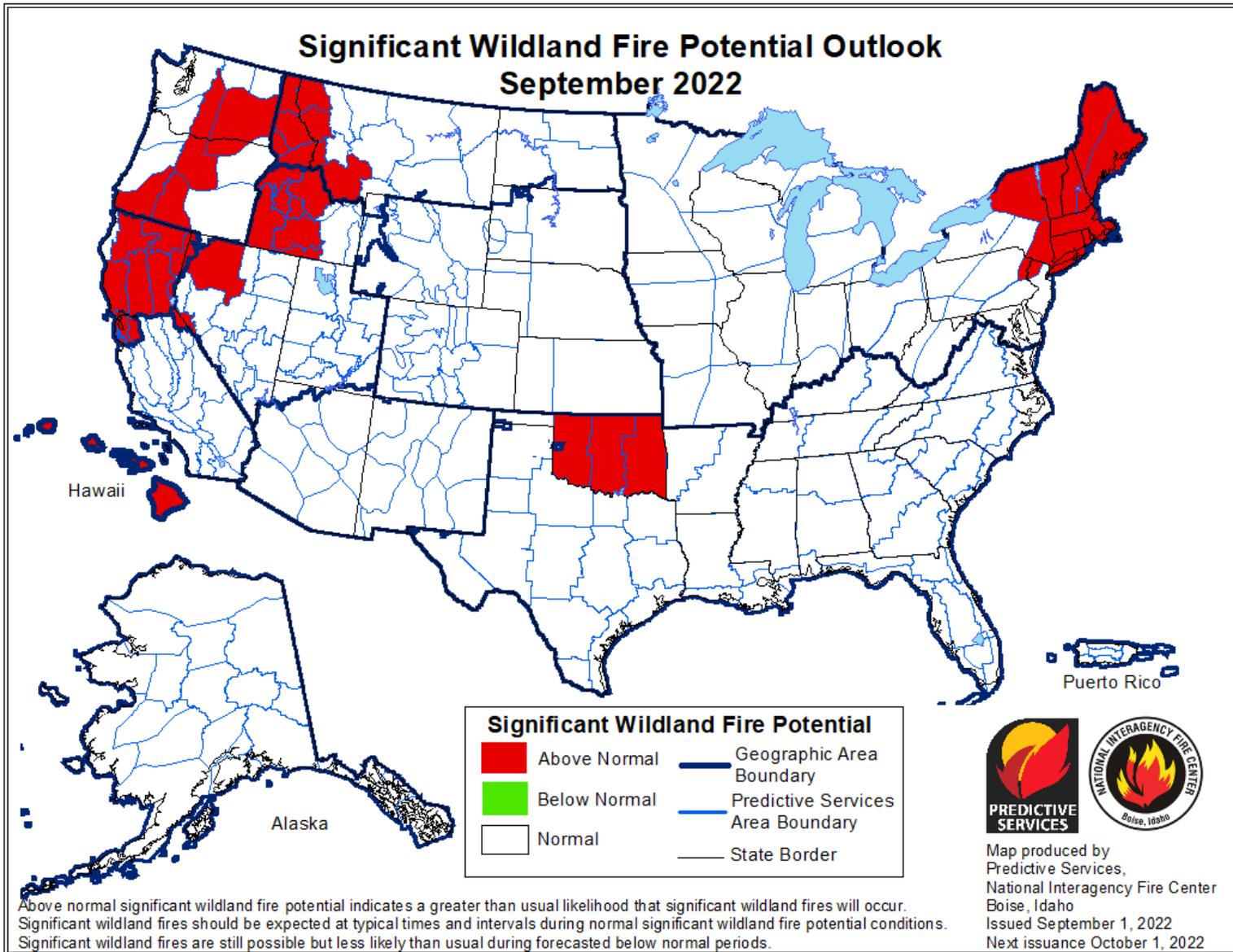
**STREAMFLOW**  
**AUGUST**





### September 5 Reservoir Storage





## RESOURCES/REFERENCES

Please visit [Oregon Water Resources Department's drought information page](#) to learn about current drought conditions, assistance programs, and potential drought tools.

If you are interested in submitting local drought-related conditions and impacts, please visit the [drought impacts toolkit](#) to learn more. [Click here](#) to visit the map of condition monitoring observer reports.

Released every Thursday, the [US Drought Monitor](#) provides a weekly assessment of drought conditions. The USDM provides a [network infographic](#) which depicts the network of observers who gather and report information about conditions and drought impacts.

The [WestWide Drought Tracker](#) uses data from [PRISM](#) to provide easy access to fine-scale drought monitoring and climate products, such as the figures depicting climate conditions within this report.

The National Weather Service's [Climate Prediction Center](#) offers [weekly](#), [monthly](#), and [seasonal](#) climate outlooks illustrating the probabilities of temperatures and precipitation.

The [Regional Climate Centers](#) (RCC) working with NOAA partners, deliver climate services at national, regional, and state levels. Climate [anomaly maps of Oregon](#) are updated daily at around noon PST.

NASA's [Gravity Recovery and Climate Experiment](#) (GRACE) provide satellite-based observations of soil moisture conditions that are useful as drought indicators, helpful in describing current wet or dry soil conditions.

USGS [Water Watch](#) provides maps of real-time and average streamflow conditions at USGS sites throughout the state.

Reservoir storage "teacup" diagrams are offered by both the [US Bureau of Reclamation](#) and [US Army Corps of Engineers](#). The diagrams represent the level of fill in the reservoirs as both percent full and as a ratio of volume of water currently in the reservoir to the volume of water in the reservoir when it is full.

Oregon wildfire information can be found through [InciWeb](#) and the Oregon Department of Forestry's [Wildfire News](#), along with the [National Interagency Fire Center](#) which offers outlooks on the significant wildland fire potential.

Oregon Office of Emergency Management maintains a [hydrology/meteorology dashboard](#) which shows state and local drought declarations, as well as hosts many of the data sources to generate this report. Use the selection arrows at the bottom of your browser to navigate through the various sources.

US Department of Agriculture provides the [Weekly Weather and Crop Bulletin](#) as a vital source of information on US and global weather, climate, and agricultural developments, along with seasonally appropriate agrometeorological charts and tables. USDA's [Drought Programs and Assistance](#) offers links to programs and resources to help those struggling with persistent drought.