### Oregon Water Conditions Report



# January $2^{nd}$ , 2024

#### HIGHLIGHTS

According to the <u>US Drought Monitor</u>, over 18% of Oregon is experiencing moderate (D1) to severe (D2) drought conditions. Conditions have not changed over the past two weeks with severe drought conditions persisting in northcentral Oregon.

Snow water equivalent (SWE) in all basins across the state is currently measuring well below to just below the historical median (min = 19%, max = 92%).

Precipitation over the <u>past 30 days</u> has varied statewide. Much of northeast, central, and southwest Oregon received well below average precipitation, ranging from 1.5 to 4.5 inches below average. The southern Cascade Range and parts of the northern and southern coast received well above average precipitation, ranging from 3 to 7.5 inches above average.

Over the past 30 days, temperatures have varied between western and eastern Oregon. Average temperatures in western Oregon ranged from 2°F below average to 8°F above average. In eastern Oregon, average temperatures ranged from 2°F to 10°F above average.

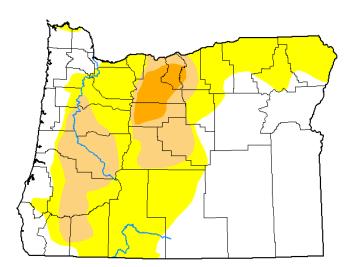
Root zone soil and surface soil moisture profiles show a decline over recent weeks due to below average precipitation across much of the state.

The <u>three-month seasonal climate</u> outlook indicates probabilities showing equal chances of above/below average precipitation for much of the state and below average precipitation for parts of northeast Oregon. The seasonal outlook for temperature indicates probabilities favoring above average temperatures statewide.

<u>Streamflows in December</u> varied across Oregon. In northwest and eastern Oregon streamflows were near to well above average. Streamflows in southwest and central Oregon were well below to well above average. Over the water year to date, streamflows generally show similar patterns of dryness to streamflows in December especially in southwest and central Oregon.

Reservoir storage in many basins continues to measure near to above average. However, projects in the Deschutes and Rogue basins are measuring below average storage contents. See <u>USBR</u> (including <u>Klamath</u>) and <u>USACE</u> teacup diagrams for more information.

U.S. Drought Monitor
Oregon



### December 26, 2023

(Released Thursday, Dec. 28, 2023) Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	47.04	52.96	18.85	3.12	0.00	0.00
Last Week 12-19-2023	47.09	52.91	18.85	3.12	0.00	0.00
3 Month's Ago 09-26-2023	24.13	75.87	54.18	27.06	6.40	0.00
Start of Calendar Year 01-03-2023	13.46	86.54	59.75	46.03	26.18	1.40
Start of Water Year 09-26-2023	24.13	75.87	54.18	27.06	6.40	0.00
One Year Ago 12-27-2022	8.58	91.42	59.76	46.04	26.18	1.40

Intensity:	
None	D2 Severe Drought
D0 Abnormally Dry	D3 Extreme Drought
D1 Moderate 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

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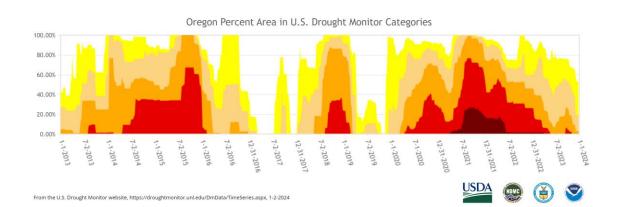


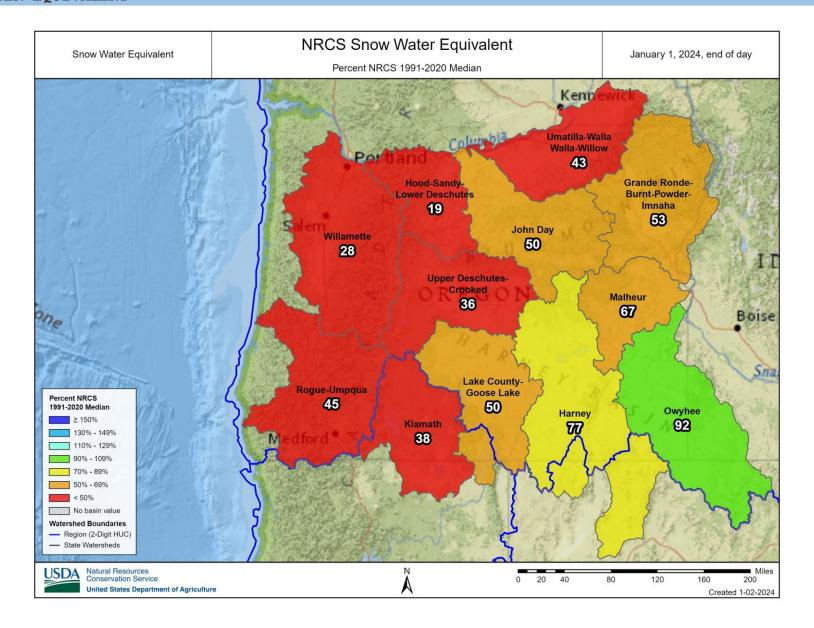


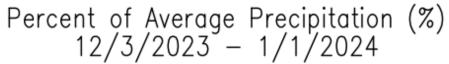


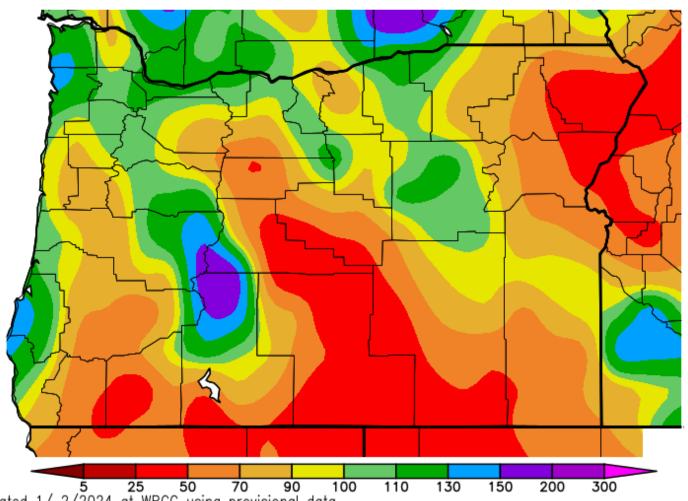


#### droughtmonitor.unl.edu



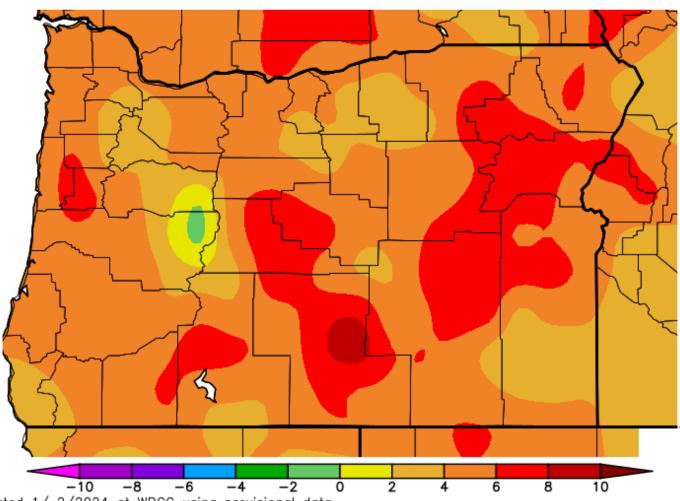






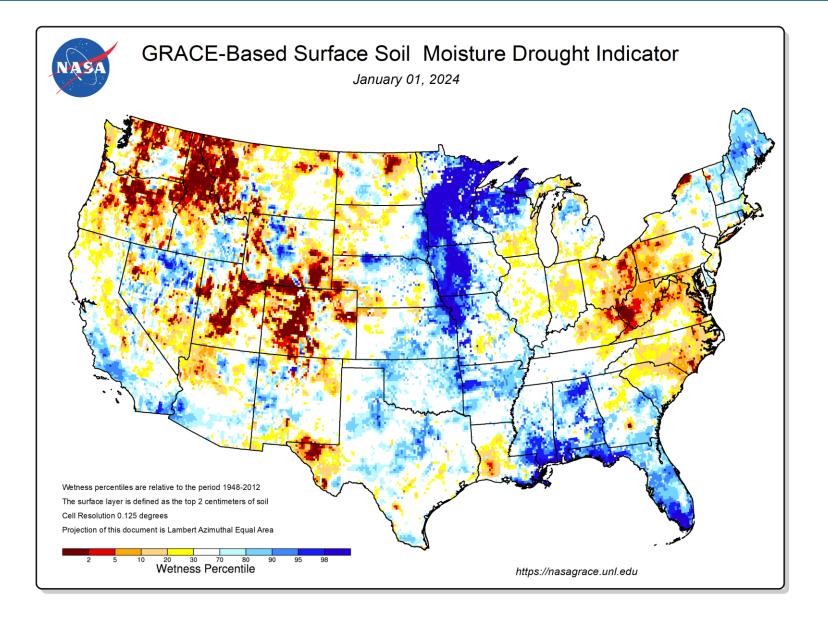
5 25 50 70 90 10 Generated 1/ 2/2024 at WRCC using provisional data. NOAA Regional Climate Centers

Ave. Temperature dep from Ave (deg F) 12/3/2023 - 1/1/2024

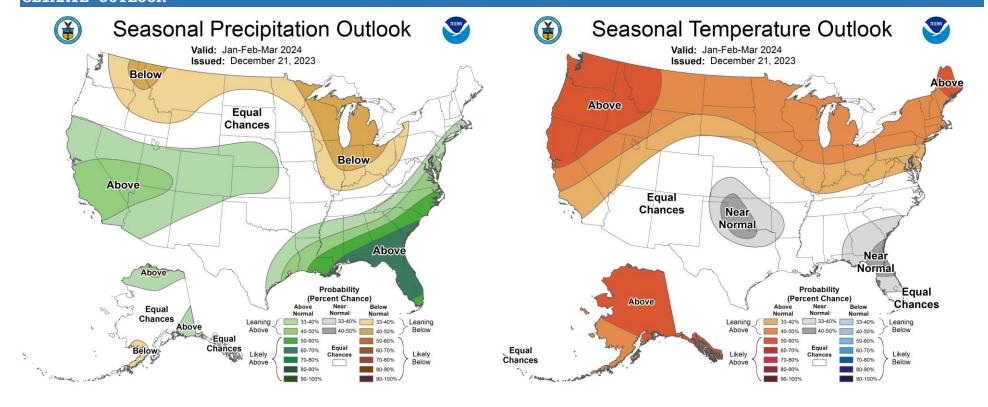


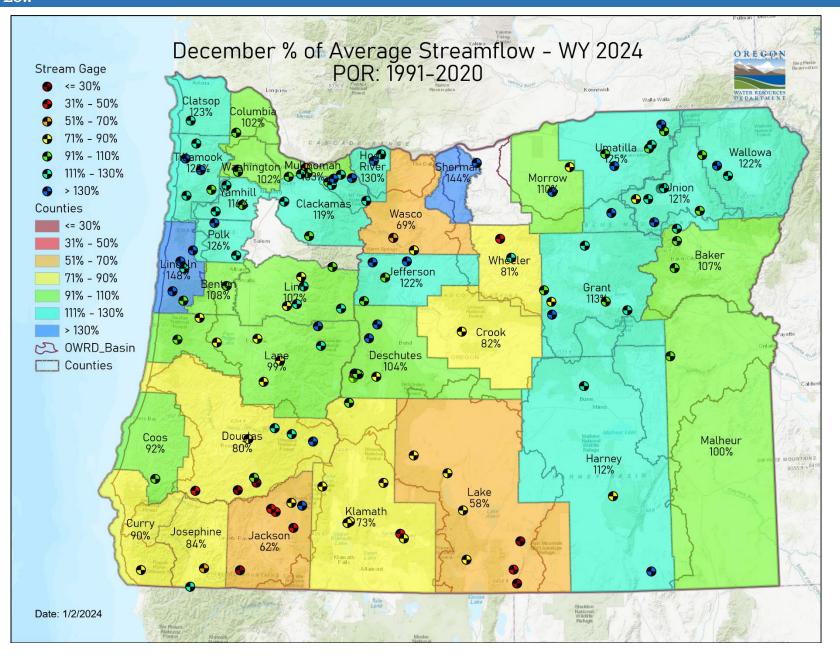
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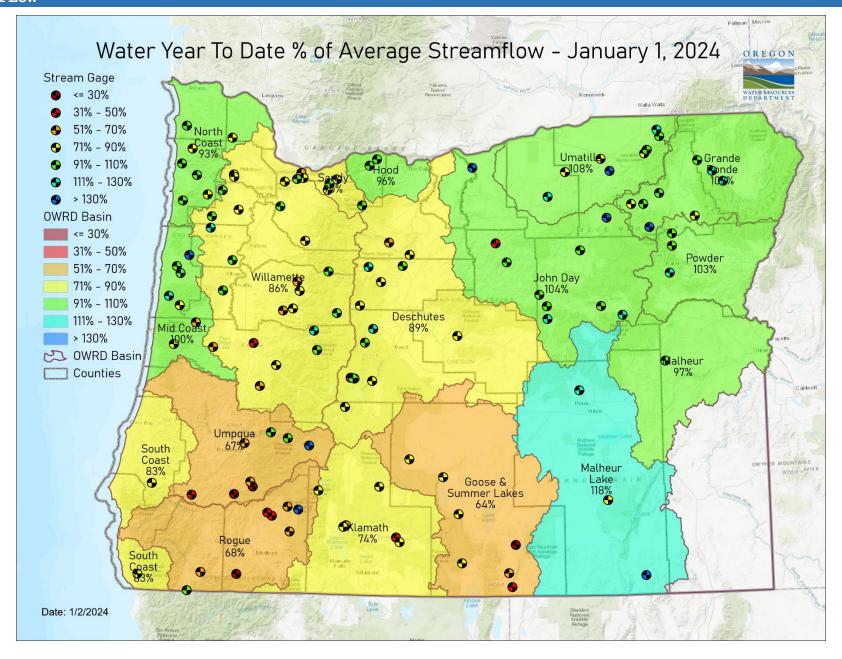
NOAA Regional Climate Centers



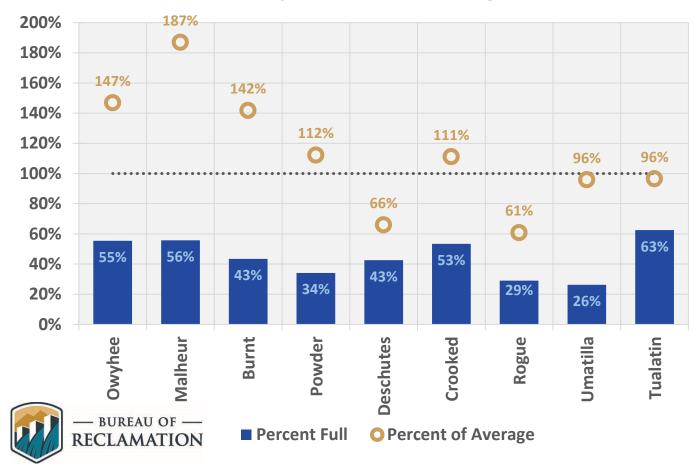
#### CLIMATE OUTLOOK







## **January 1 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 <u>drought impacts toolkit</u> to learn more. <u>Click here</u> to visit the map of condition monitoring observer reports.

Released every Thursday, the  $\underline{\text{US Drought Monitor}}$  provides a weekly assessment of drought conditions. The USDM provides a  $\underline{\text{network infographic}}$  which depicts the network of observers who gather and report information about conditions and drought impacts.

The <u>WestWide Drought Tracker</u> uses data from <u>PRISM</u> 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 <u>Climate Prediction Center</u> offers <u>weekly</u>, <u>monthly</u>, and  $\underline{seasonal}$  climate outlooks illustrating the probabilities of temperatures and precipitation.

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

NASA's <u>Gravity Recovery and Climate Experiment</u> (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  $\underline{\text{Water Watch}}$  provides maps of real-time and average streamflow conditions at USGS sites throughout the state.

Reservoir storage "teacup" diagrams are offered by both the <u>US Bureau of</u>

<u>Reclamation</u> and <u>US Army Corps of Engineers</u>. 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 <a href="InciWeb">InciWeb</a> and the Oregon Department of Forestry's <a href="Wildfire News">Wildfire News</a>, along with the <a href="National Interagency Fire">National Interagency Fire</a> Center which offers outlooks on the significant wildland fire potential.

Oregon Office of Emergency Management maintains a <a href="https://www.hydrology/meteorology dashboard">hydrology/meteorology dashboard</a> 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 <u>Weekly Weather and Crop Bulletin</u> 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 <u>Drought Programs and Assistance</u> offers links to programs and resources to help those struggling with persistent drought.