



Drought Information Statement for Western Washington Valid September 19, 2023 Issued By: NWS Seattle, WA Contact Information: <u>w-sew.webmaster@noaa.gov</u>

- This product will be updated by Sept. 30, 2023 or sooner if drought conditions change significantly.
- Please see all currently available products at <u>https://drought.gov/drought-information-statements</u>.
- Please visit <u>https://www.weather.gov/ewx/DroughtInformationStatement</u> for previous statements.



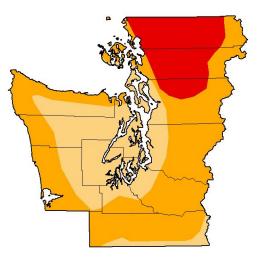




Link to the latest U.S. Drought Monitor for Washington

- Drought intensity and Extent
 - D3 Extreme Drought: Covers much of the northern portions of western WA, 17% of our region
 - D2 Severe Drought: Covers 51% of the area
 - D1 Moderate Drought: Covers most of the PUget Sound and inland Olympic Peninsula
- Drought is expected to persist (see Drought Outlook last slide)

U.S. Drought Monitor Seattle, WA WFO



September 12, 2023 (Released Thursday, Sep. 14, 2023) Valid 8 a.m. EDT

	Drought Conditions (Percent Area)					
	None	D0	D1	D2	D3	D4
Current	0.00	0.00	31.91	51.37	16.73	0.00
Last Week 09-05-2023	0.00	0.00	45.47	37.80	16.73	0.00
3 Month s Ago 06-13-2023	7.81	64.51	27.67	0.00	0.00	0.00
Start of Calendar Year 01-03-2023	32.94	59.67	7.39	0.00	0.00	0.00
Start of Water Year 09-27-2022	0.87	99.13	0.00	0.00	0.00	0.00
One Year Ago 09-13-2022	100.00	0.00	0.00	0.00	0.00	0.00

Intensity:

	None	D2 Severe Drought
	D0 Abnormally Dry	D3 Extreme Drought
1	D1 Moderate Drought	D4 Exceptional Drough

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.asp

Author: Brad Pugh CPC/NOAA



Image Caption: U.S. Drought Monitor valid 8am PDT September 19, 2023.



Recent Change in Drought Intensity

Link to the latest <u>4-week change map</u> for south central Texas

- Four Week Drought Monitor Class Change.
 - Drought Worsened: Over much of the area with a 2 category change in the southwest
 - No Change: Portions of the central Cascades and foothills, and north slopes of the Olympics
 - Drought Improved: No drought improvement was observed.

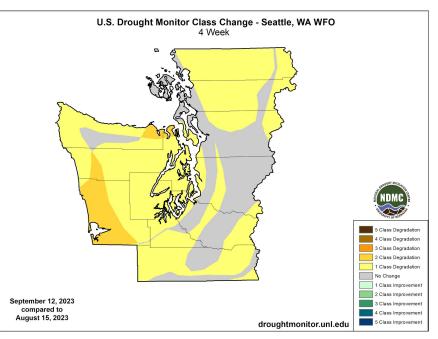
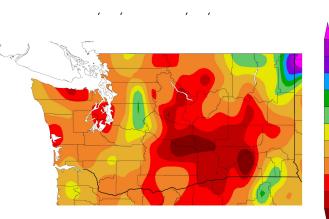


Image Caption: U.S. Drought Monitor 4-week change map valid 8am PDT September 19, 2023



- The majority of the region has seen less than 70% of normal rainfall over this period
- A significant amount of the coast and north west have seen less than 50% of normal rainfall over this period



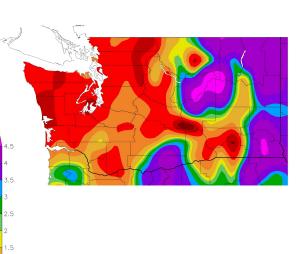


Image Captions:

Left - Precipitation Amount Map for Washington Right - Percent of Normal Precipitation for Washington Data Courtesy Advanced Hydrologic Prediction Service (AHPS) Data over the past 30 days ending September 19, 2023

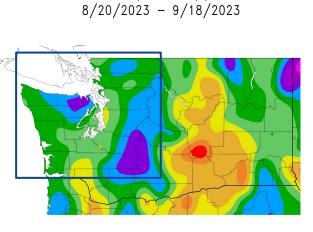
National Weather Service Seattle, WA



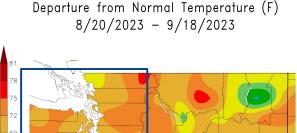
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 It has been 2 to 3 degrees warmer than normal over the last 60 days for much of the area



Temperature (F)



Generated 9/19/2023 at HPRCC using provisional data.

NOAA Regional Climate Centers ³²³ at HPRCC using provisional data.

NOAA Regional Climate Centers

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Image Captions: Left - Average Temperature Right - Departure from Normal Temperature Data Courtesy High Plains Regional Climate Center. Data over the past 30 days ending September 18, 2023





Links: See/submit Condition Monitoring Observer Reports (CMOR) and view the Drought Impacts Reporter

- Hydrologic Impacts
 - Most streamflows remain below to much below normal across most basins in the region, and have worsened over the past 30 days. See next slide for more details
- **Agricultural Impacts**
 - Soil Moistures have continued to decrease over the past 30 days with much of the area showing much below normal soil moisture. Crop moistures remain severely dry

Fire Hazard Impacts

- Wildfire activity has continued over the last 30 days
- Burn bans are in effect
- See slide 8 for more details

Other Impacts

- Statewide Drought Advisory in effect
- Drought Emergency declared for Clallam, Skagit, Whatcom, and part of Snohomish Counties
- 3 public water system wells in Whatcom County have run dry



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Drought Mitigation Actions

- Sequim encourages water conservation
- Please refer to your municipality and/or water provider for mitigation information.

Hydrologic Conditions and Impacts

- Streamflows over the past 7 days show the lowest streamflow in basins of the Olympic Peninsula, southwest WA, and northwest WA
- Much of the streamflow across the area is in the less than 10th percentile for this time of year (maroon/red shading on the map)

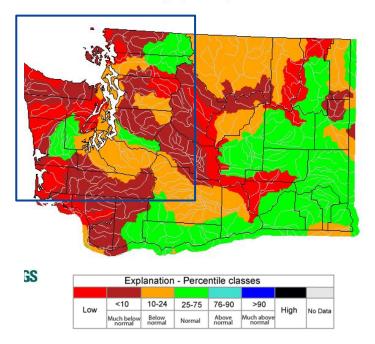


Figure Caption: <u>USGS 7 day streamflows for</u> Washington, valid September 19, 2023

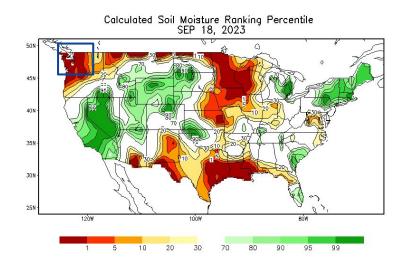


National Oceanic and Atmospheric Administration U.S. Department of Commerce National Weather Service Seattle, WA

Monday, September 18, 2023



- Soil Moistures have continued to decrease and much of the area showing much below normal, at the lowest percentile.
- Crop moistures remain in the Excessively Dry category along the Olympic Peninsula



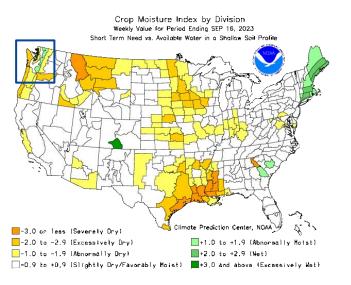


Image Captions:

Left: CPC Calculated <u>Soil Moisture Ranking Percentile</u> valid September 18, 2023

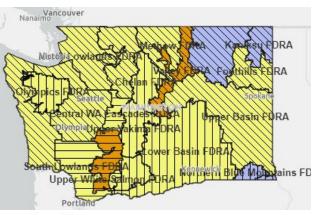
Above: <u>Crop Moisture Index by Division</u>. Weekly value for period ending September 16, 2023



Fire Hazard Impacts

Link to Wildfire Potential Outlooks from the National Interagency Coordination Center.

- Noticeable wildland fire activity has been observed in western WA over the past couple of months as the outlooks suggested this summer into September
- Burn bans are in effect for many areas



Burn Bans

- Rule Burns are banned
- Rule and Permit Burns are banned
 - Rule, Permit and Recreation Burns are banned
- Other Combination, described
- 🗋 No burn ban in effect

Image caption: Latest DNR Burn Ban map available <u>here.</u>

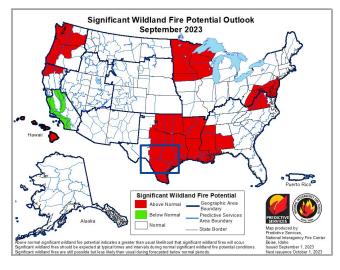


Image Caption: <u>Significant Wildland Fire</u> <u>Potential Monthly Outlook</u> for September 2023

> National Weather Service Seattle, WA



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• Rainfall is forecast in western Washington over the coming week.

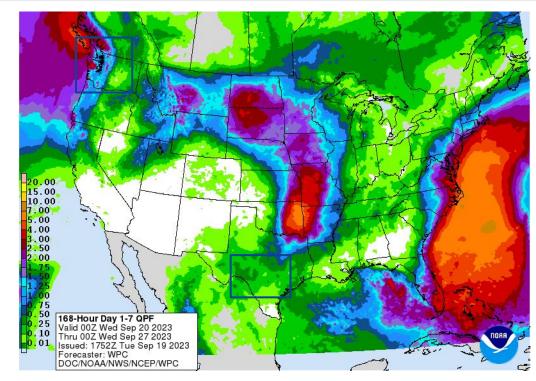


Image Caption: Weather Prediction Center <u>7-day precipitation forecast</u> valid Tuesday September 19 to Tuesday September 28.



Long-Range Outlooks

The latest monthly and seasonal outlooks can be found on the CPC homepage

- Equal chance of above, below, or normal temperatures on average through the month of September
- Odds lean towards above normal precipitation in September across

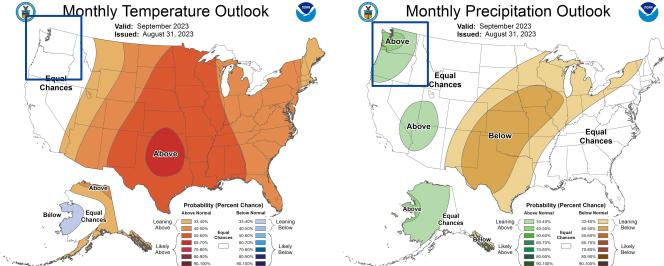


Image Captions: Left - <u>Climate Prediction Center Monthly Temperature Outlook.</u> Right - <u>Climate Prediction Center Monthly Precipitation Outlook.</u> Valid September 2023





The latest monthly and seasonal outlooks can be found on the CPC homepage

• Drought will will persist

Links to the latest: <u>Climate Prediction Center Monthly Drought Outlook</u> <u>Climate Prediction Center Seasonal Drought Outlook</u>



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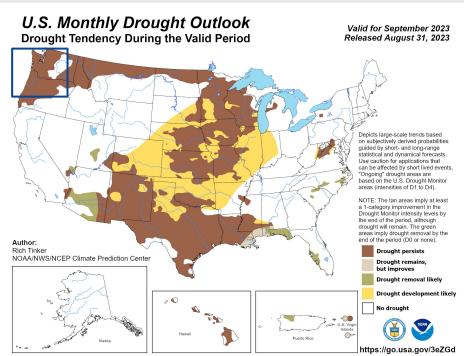


Image Caption:

Climate Prediction Center Monthly Drought Outlook Released August 31, 2023 valid for September 2023