



Drought Information Statement for Eastern Washington & North Idaho

Valid November 13, 2023

Issued By: NWS Spokane, WA

Contact Information: w-otx.webmaster@noaa.gov

- This product will be updated by December 15, 2023 or sooner if drought conditions change significantly.
- Please see all currently available products at <https://drought.gov/drought-information-statements>.
- Please visit <https://www.weather.gov/otx/DroughtInformationStatement> for previous statements.





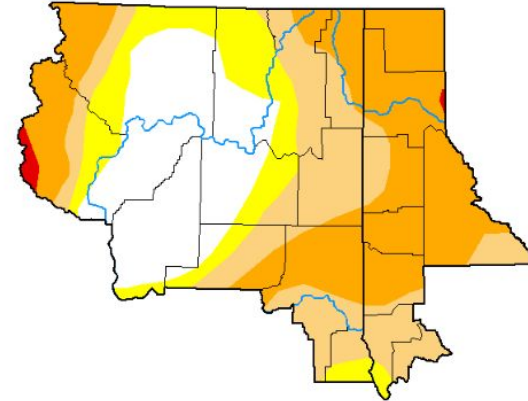
U.S. Drought Monitor

Link to the [latest U.S. Drought Monitor](#) for eastern Washington and north Idaho

SMALL DROUGHT IMPROVEMENTS ACROSS THE INLAND NW

- Drought intensity and Extent
 - D3 (Extreme Drought): Near the Cascade crest in Chelan county in WA and the eastern edge of Bonner county in ID, **covering 1%**
 - D2 (Severe Drought): East slopes of the Cascades, northeast WA, WA Palouse, and the Idaho Panhandle, **decreased to 34%**
 - D1 (Moderate Drought): Parts of northeast WA, Spokane area, Columbia Basin, and pockets of the southern ID Panhandle, **decreased to 25%**
 - D0: (Abnormally Dry): Parts of central WA, **near 15%**
 - NONE: **Increased to 25%** in central WA!

U.S. Drought Monitor Spokane, WA WFO



November 7, 2023
(Released Thursday, Nov. 9, 2023)
Valid 7 a.m. EST

	Drought Conditions (Percent Area)					
	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	25.00	75.00	60.43	35.18	0.67	0.00
Last Week 10-31-2023	25.00	75.00	60.66	39.17	0.67	0.00
3 Months Ago 08-08-2023	18.10	81.90	58.88	22.94	0.00	0.00
Start of Calendar Year 01-01-2023	25.93	74.07	11.42	0.00	0.00	0.00
Start of Water Year 09-26-2023	8.61	91.39	70.19	41.54	0.67	0.00
One Year Ago 11-08-2022	8.49	91.51	45.29	0.00	0.00	0.00



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:
Lindsay Johnson
National Drought Mitigation Center



droughtmonitor.unl.edu

Image Caption: U.S. Drought Monitor valid 7am EDT November 9, 2023



Recent Change in Drought Intensity

Link to the latest [3-week change map](#) for eastern Washington and north Idaho

- Three Week Drought Monitor Class Change.
 - No Change: Much of eastern WA and parts of the Idaho Panhandle.
 - Drought Improved: Parts of central WA and the LC Valley

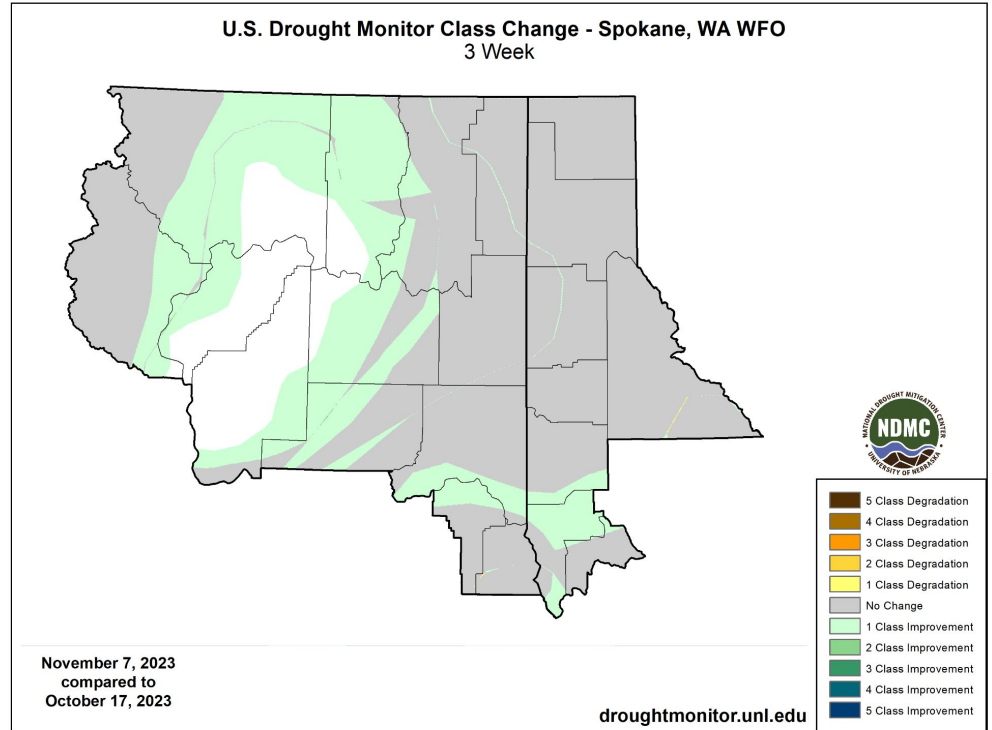


Image Caption: U.S. Drought Monitor 3-week change map valid 7am EDT November 7, 2023.





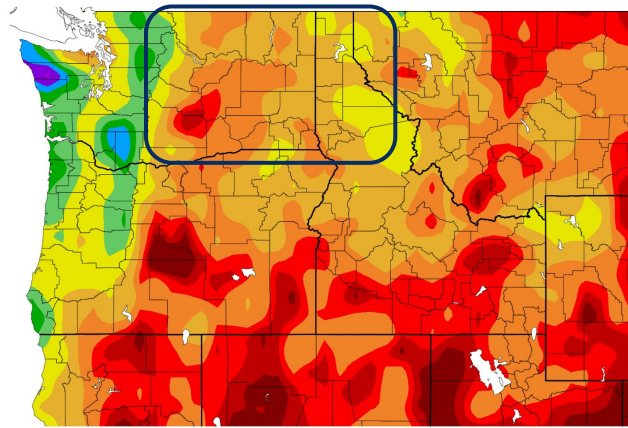
Precipitation

Last 30 Days

- Rounds of precipitation occurred mid October into early November

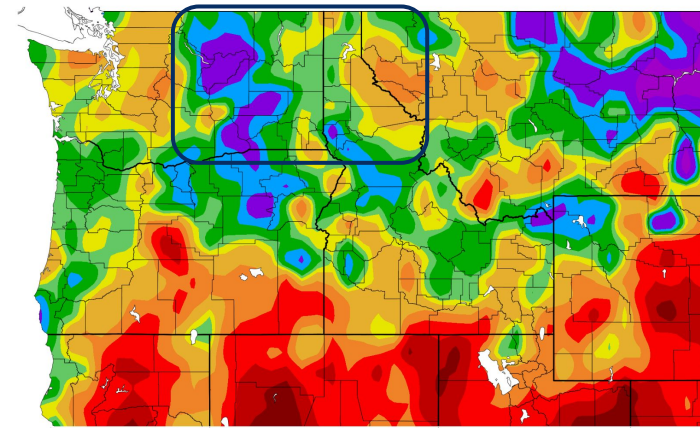
Still pockets of below normal precipitation were found in northeast WA and parts of the Idaho Panhandle.

Precipitation (in)
10/14/2023 - 11/12/2023



Generated 11/13/2023 at HPRCC using provisional data.

Percent of Normal Precipitation (%)
10/14/2023 - 11/12/2023



NOAA/ Generated 11/13/2023 at HPRCC using provisional data.

NOAA Region

Image Captions:

Left - Precipitation Amount for Pacific NW

Right - Percent of Normal Precipitation for Pacific NW

Data Courtesy [High Plains Regional Climate Center](#)

Data over the past 30 days ending November 12, 2023



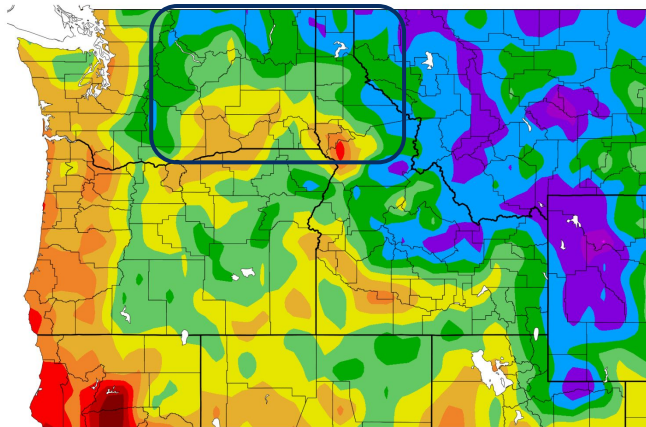


Temperature

Last 30 Days

- The previous 30 days continued to remain mild with near to above normal temperatures by 0 to 2 degrees across the region.

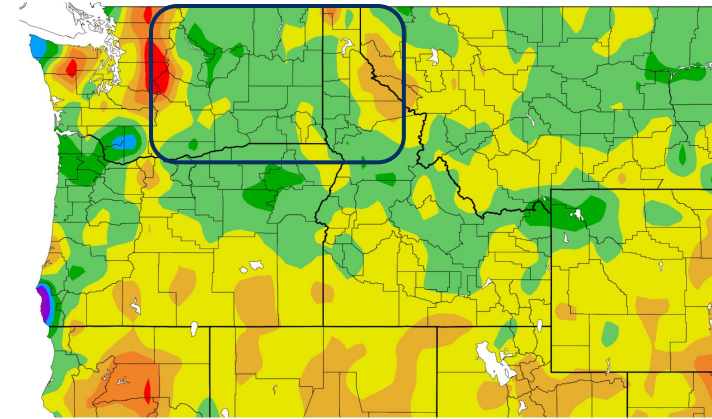
Temperature (F)
10/14/2023 - 11/12/2023



Generated 11/13/2023 at HPRCC using provisional data.

NOAA

Departure from Normal Precipitation (in)
10/14/2023 - 11/12/2023



Generated 11/13/2023 at HPRCC using provisional data.

NOAA Region 4

Image Captions:

Left - Average Temperature for the Pacific NW

Right - Departure from Normal Temperature for the Pacific NW

Data Courtesy [High Plains Regional Climate Center](#)

Data over the past 30 days ending November 12, 2023



National Oceanic and Atmospheric Administration

U.S. Department of Commerce

National Weather Service
Spokane, WA



Snow Water Equivalent

- Autumn precipitation has fallen in the form of mountain snow with the Cascades and Okanogan Highlands receiving the bulk of the snow early this season.
- The snow has been limited across the central ID Panhandle into southeast WA through mid November.

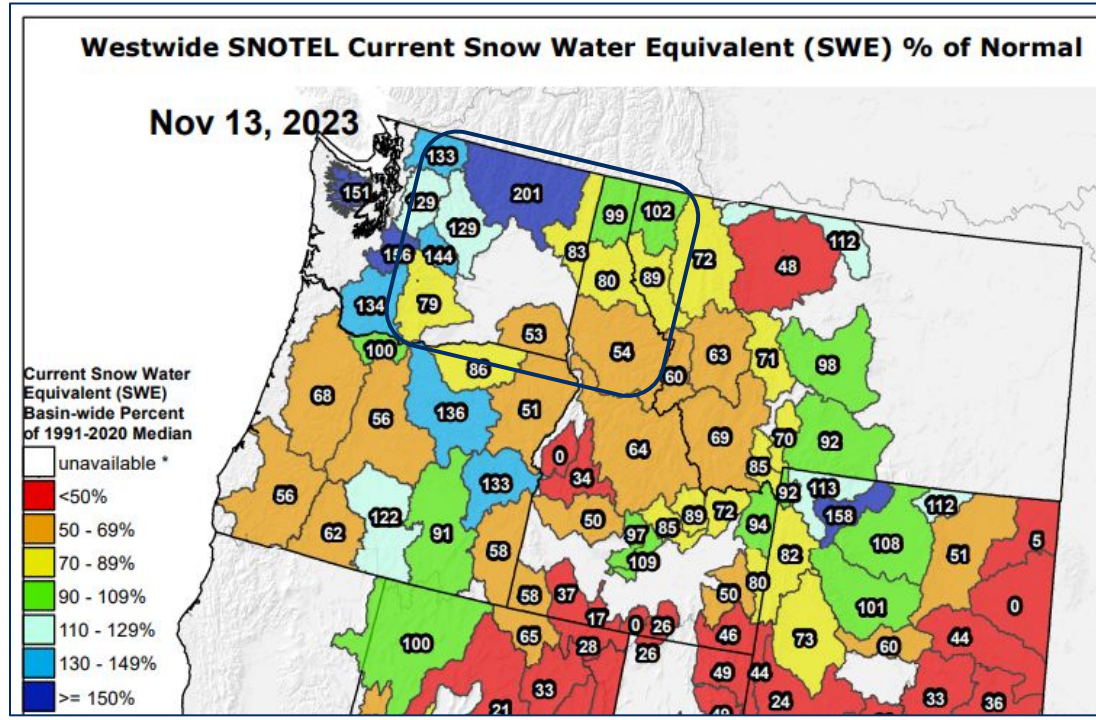


Image Captions:
[Westwide SNOTEL Current Snow Water Equivalent](#) percentage .
 Daily value ending November 13, 2023



Summary of Impacts

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

Hydrologic Impacts

- Many streamflows remain below to much below normal across parts of northeastern WA and the far northern Idaho Panhandle. There's been improvements across southeast WA and north central ID with the above normal precipitation over the last few weeks.

Agricultural Impacts

- Autumn precipitation has increased soil moisture and crop moisture across the region, especially with above normal levels in the east slopes of the Cascades.





Hydrologic Conditions and Impacts

- Streamflows over the past 7 days have been variable, ranging from below normal flows in the north to above level flows across the south. There's been improvements across southeast WA and north central ID with the above normal precipitation over the last few weeks.
- A few river basins across the region still remain below the 10th percentile for this time of year (shaded in red) in northeast WA and the far northern ID Panhandle.

Sunday, November 12, 2023

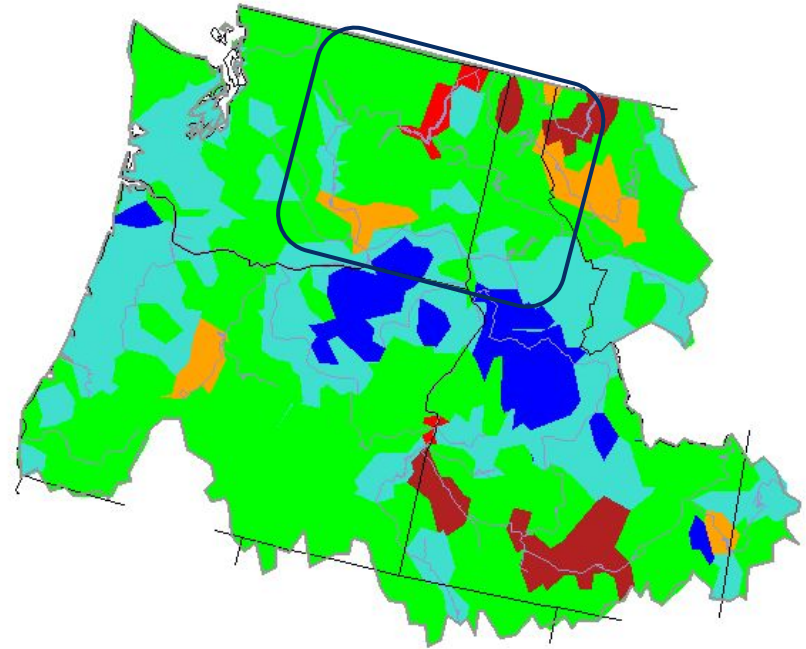


Image Caption: [USGS 7 day average streamflow HUC map](#) valid November 12, 2023

Explanation - Percentile classes

Low	<10	10-24	25-75	76-90	>90	High	No Data	
	Much below normal	Below normal	Normal	Above normal	Much above normal			

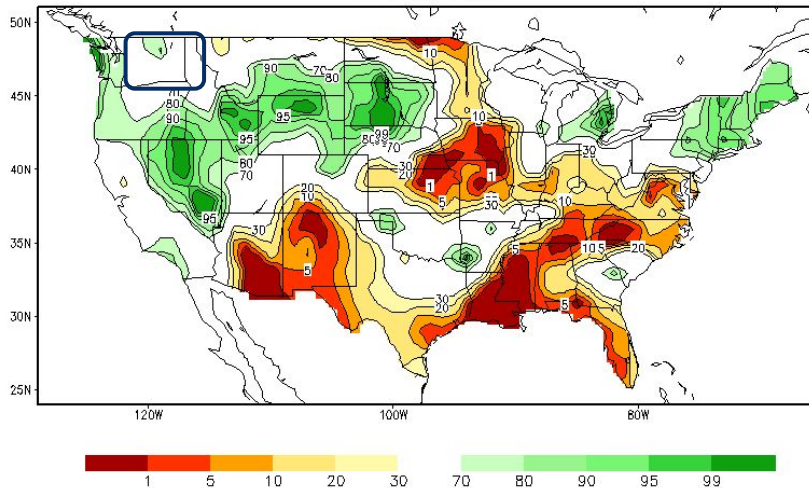




Agricultural Impacts

- Soil moisture has improved over the last month with more seasonal levels!
- Crop moisture has also improved across the region with above normal levels in the east slopes of the Cascades and north Idaho.

Calculated Soil Moisture Ranking Percentile
NOV 12, 2023



Crop Moisture Index by Division
Weekly Value for Period Ending NOV 11, 2023
Short Term Need vs. Available Water in a Shallow Soil Profile

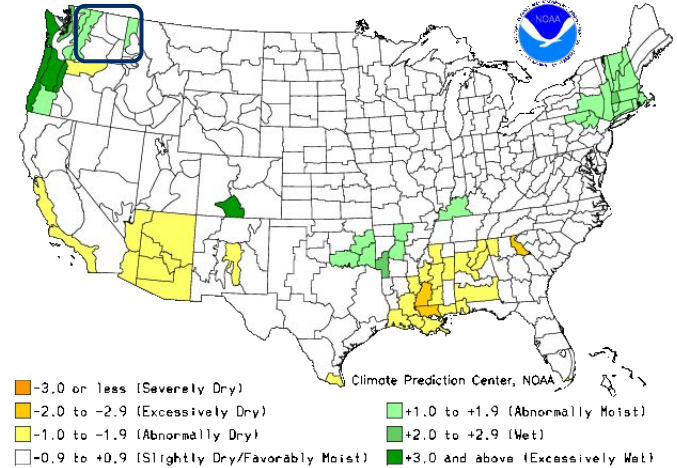


Image Captions:

Left: CPC Calculated [Soil Moisture Ranking Percentile](#) valid November 12, 2023

Right: [Crop Moisture Index by Division](#). Weekly value for period ending November 11, 2023





Seven Day Precipitation Forecast

- Here is a forecast of precipitation for the Inland NW for the upcoming week.
- Light precipitation will track across the region for the first half of the week, followed by wetter weather by the weekend and into early next week. This includes low elevation rain and mountain snow.

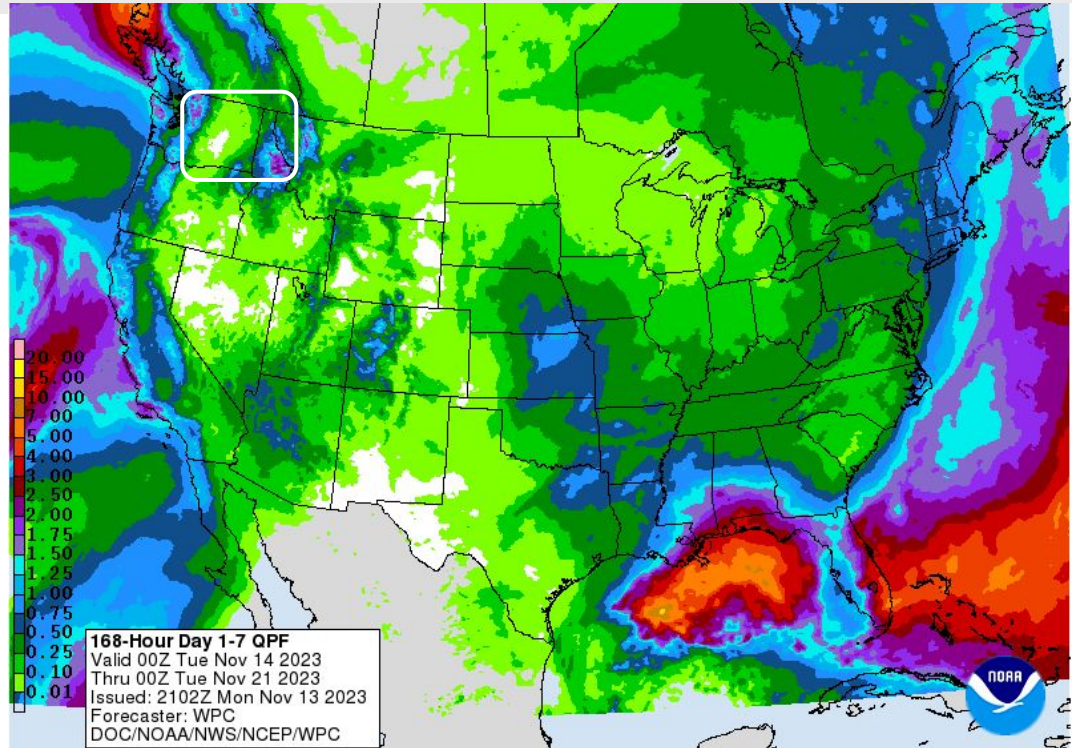


Image Caption: Weather Prediction Center [7-day precipitation forecast](#) valid Tuesday, November 14 through Tuesday, November 21, 2023





Long-Range Outlooks

The latest monthly outlooks can be found on the [CPC homepage](#)

The November outlook is calling for a 40-50% chance of above normal temperatures.

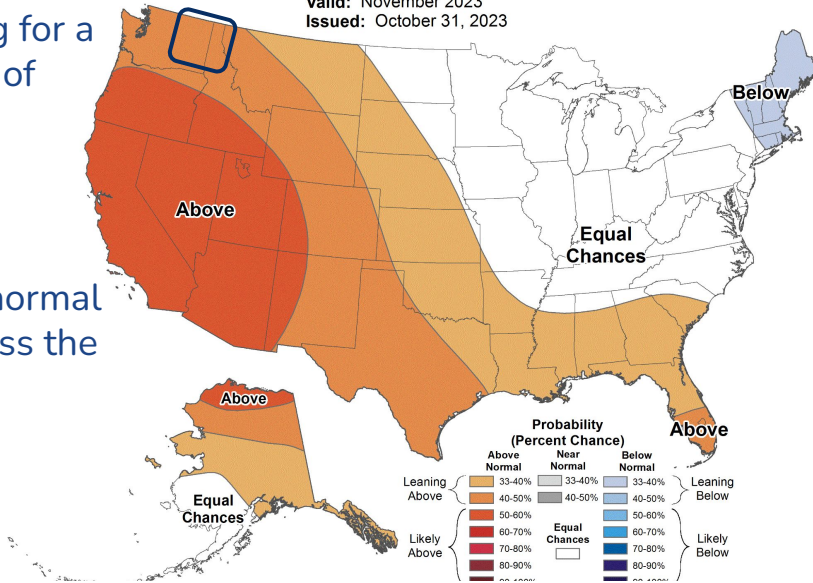
Precipitation is favoring above normal by 40-60% across the Pacific NW.



Monthly Temperature Outlook



Valid: November 2023
Issued: October 31, 2023



Monthly Precipitation Outlook



Valid: November 2023
Issued: October 31, 2023

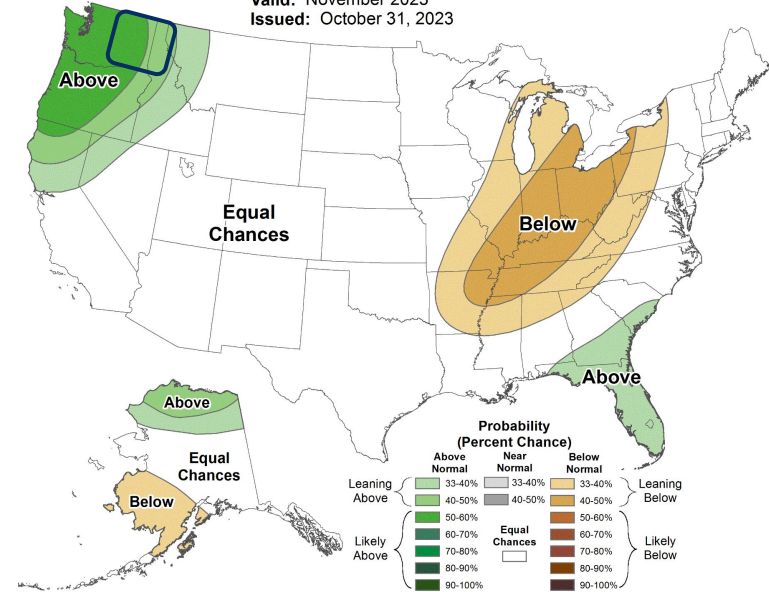


Image Captions:

Left - [Climate Prediction Center Monthly Temperature Outlook](#),

Right - [Climate Prediction Center Monthly Precipitation Outlook](#),

Valid November 2023



National Oceanic and Atmospheric Administration
U.S. Department of Commerce

National Weather Service
Spokane, WA



Long-Range Outlooks

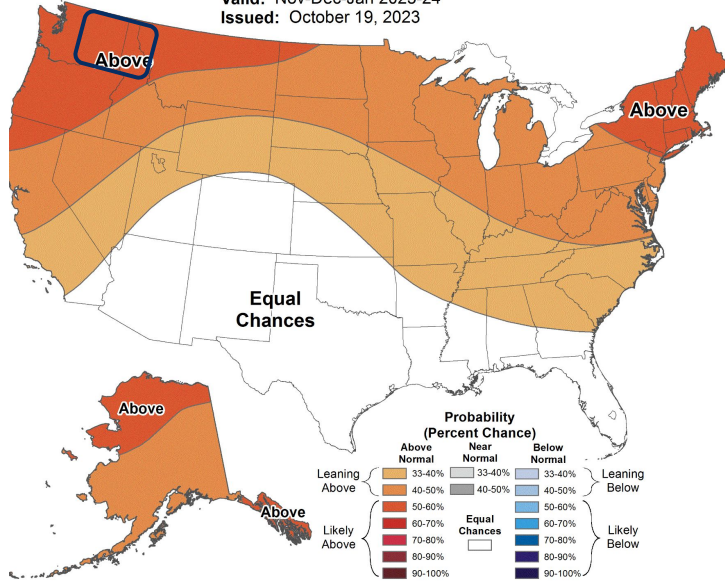
The latest seasonal outlooks can be found on the [CPC homepage](#)



Seasonal Temperature Outlook



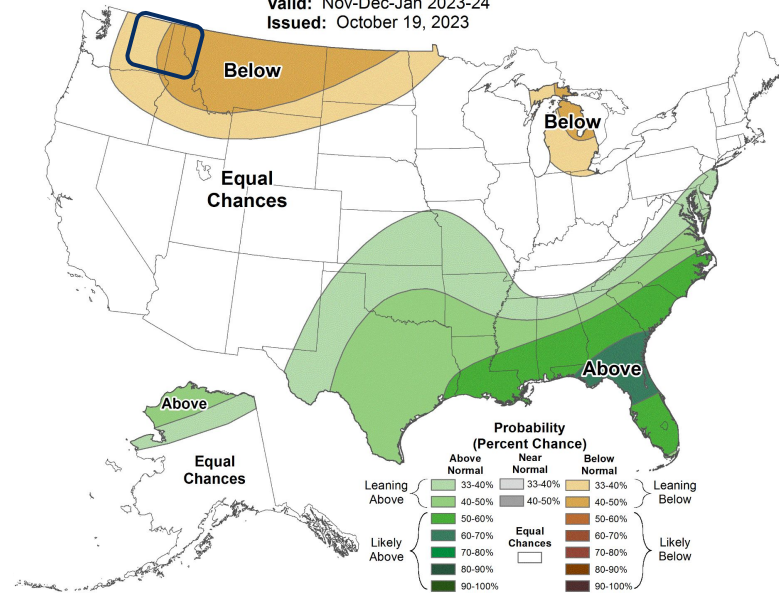
Valid: Nov-Dec-Jan 2023-24
Issued: October 19, 2023



Seasonal Precipitation Outlook



Valid: Nov-Dec-Jan 2023-24
Issued: October 19, 2023



The NOV-DEC-JAN outlook is calling for a 40-60% chance of above normal temperatures.

Precipitation is leaning toward a 33-50% of below normal region wide for the upcoming season.

Image Captions:

Left - [Climate Prediction Center Seasonal Temperature Outlook](#).

Right - [Climate Prediction Center Seasonal Precipitation Outlook](#).

Valid Nov-Dec-Jan 2023-24





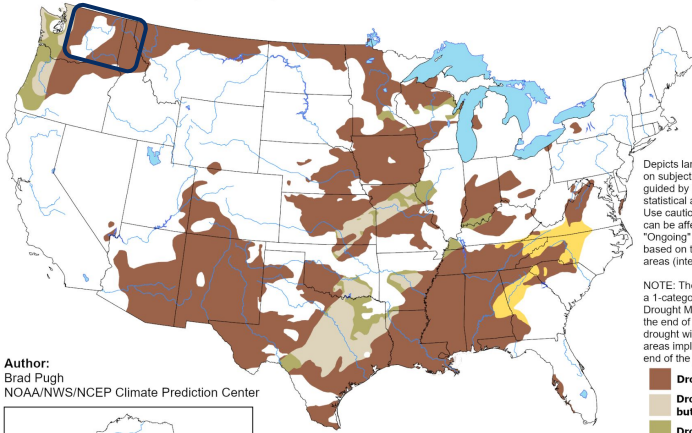
Drought Outlook

The latest monthly and seasonal outlooks can be found on the [CPC homepage](#)

Areas of drought will persist for the month and the season with drought development likely for parts of central WA this winter.

U.S. Monthly Drought Outlook Drought Tendency During the Valid Period

Valid for November 2023
Released October 31, 2023



Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to D4).

NOTE: The tan areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period, although drought will remain. The green areas imply drought removal by the end of the period (D0 or none).

- Drought persists
- Drought remains, but improves
- Drought removal likely
- Drought development likely
- No drought



<https://go.usa.gov/3eZGd>

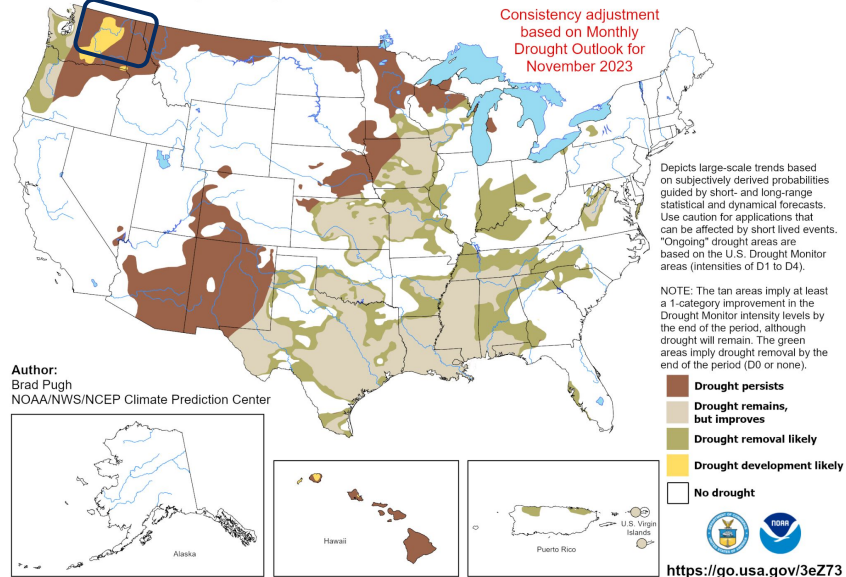
Author:
Brad Pugh
NOAA/NWS/NCEP Climate Prediction Center

Image Caption:

[Climate Prediction Center Monthly Drought Outlook](#) Released October 31, 2023 and valid for November 2023

U.S. Seasonal Drought Outlook Drought Tendency During the Valid Period

Valid for November 1, 2023 - January 31, 2024
Released October 31, 2023



Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to D4).

NOTE: The tan areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period, although drought will remain. The green areas imply drought removal by the end of the period (D0 or none).

- Drought persists
- Drought remains, but improves
- Drought removal likely
- Drought development likely
- No drought



<https://go.usa.gov/3eZ73>

Author:
Brad Pugh
NOAA/NWS/NCEP Climate Prediction Center

Image Caption:

[Climate Prediction Center Seasonal Drought Outlook](#) Released October 31, 2023 and valid through January 2024

