

Drought Information Statement for MONTANA

Valid: MAY 17, 2024

Issued By: NWS Great Falls, NWS Missoula, NWS Glasgow, NWS Billings **Contact Information:**

- This product will be updated May 31, 2024 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/TFX/DroughtInformationStatement for previous statements.
- D3 Drought conditions continue.



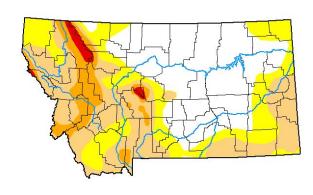




Link to the <u>latest U.S. Drought Monitor</u> for Montana

- Drought intensity and Extent
 - D4 (Exceptional Drought): None occurring
 - D3 (Extreme Drought): Scattered areas across portions of western, central and southwestern MT
 - D2 (Severe Drought): A portion of western MT, with scattered areas across portions of central and southwestern MT
 - D1 (Moderate Drought): Much of western and southwestern MT and portions of central and eastern MT
 - D0: (Abnormally Dry): Much of western and southwestern MT and portions of central, southern and eastern MT

U.S. Drought Monitor Montana



May 14, 2024

(Released Thursday, May. 16, 2024) Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	38.69	61.31	38.81	9.36	1.47	0.00
Last Week 05-07-2024	14.10	85.90	43.37	12.69	1.47	0.00
3 Month s Ago 02-13-2024	12.29	87.71	42.72	18.09	0.00	0.00
Start of Calendar Year 01-02-2024	39.20	60.80	21.30	2.68	0.00	0.00
Start of Water Year 09-26-2023	56.28	43.72	37.28	23.21	9.51	0.00
One Year Ago 05-16-2023	35.25	64.75	25.83	3.61	0.00	0.00

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

Author:

National Drought Mitigation Center









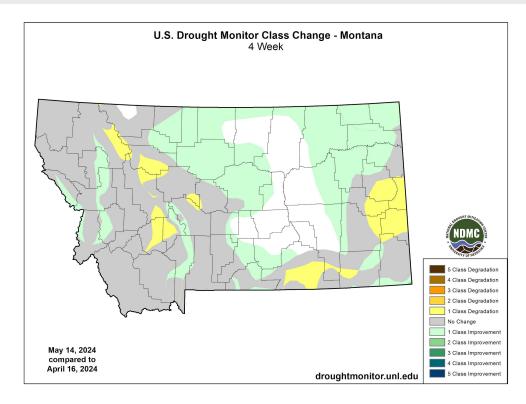
droughtmonitor.unl.edu



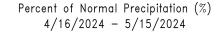
Recent Change in Drought Intensity

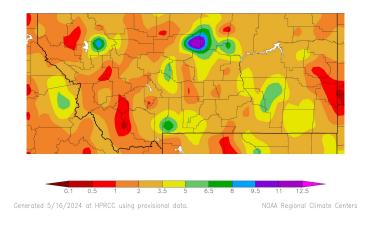
Link to the latest 4-week change map for Montana

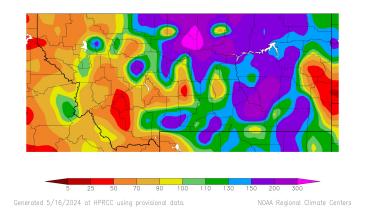
- Four Week Drought Monitor Class Change
 - Drought Worsened: Drought conditions worsened over portions of western, central, southwestern and eastern MT, during the past four weeks.
 - No Change: No change in drought conditions, over the past month, were observed over most of western and southwestern MT, and portions of central, south central and eastern MT.
 - Drought Improved: Areas of improvement occurred over scattered areas of western, southwestern, south central and southeastern MT, as well as, significant portions of north central, central and northeastern MT.



Precipitation (in) 4/16/2024 - 5/15/2024



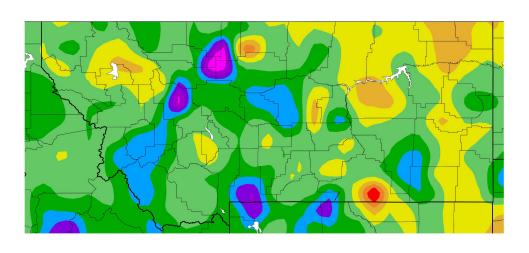




- **Precipitation (in):** During the past month, most of the state received 1.0" to 3.5" of precipitation, with some isolated areas receiving more than 5.0" of moisture. Some areas of the state received less than 1.0" of precipitation.
- **Percent of Normal Precipitation (%):** Generally, the western third of the state received below normal precipitation, while the eastern two thirds of the state received above normal precipitation amounts.

Departure from Normal Temperature (F) 4/16/2024 - 5/15/2024

 Most of The Treasure State experienced cooler than normal temperatures, while the northeastern portion of the state experienced mostly warmer than normal temperatures.





Generated 5/16/2024 at HPRCC using provisional data.

NOAA Regional Climate Centers





Hydrologic Conditions and Impacts

- Above Normal: Portions of the Kootenai, Missouri-Sun-Smith, Musselshell, Middle Yellowstone and Lower Yellowstone River Basins, as well as, much of the Milk and Lower Missouri River Basins are experiencing above normal streamflow levels, with areas of much above normal to high streamflow occurring in the Milk and Middle Yellowstone Watersheds.
- Normal: The average streamflow for most of MT, is at a level that is considered normal.
- Below Normal: Most areas of below normal streamflow are located across western and northern central MT.

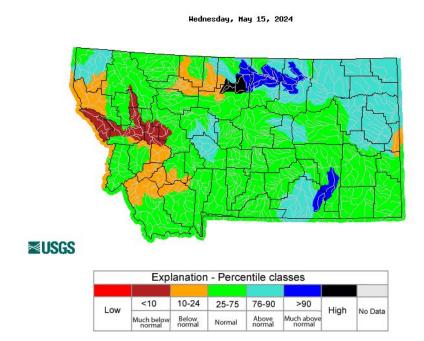
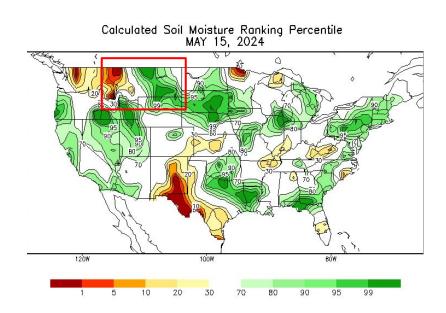


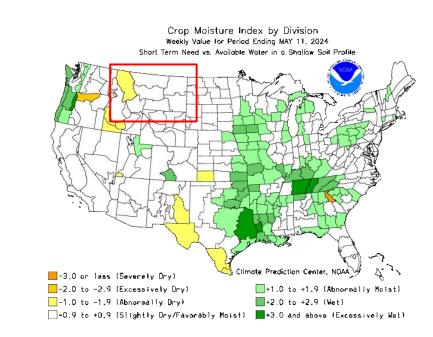
Image Caption: USGS 7-day average streamflow HUC map valid: May 15, 2024



Agricultural Impacts



 The Soil Moisture Ranking Percentile resides in the low range across western MT, while the eastern half of the state, generally, ranks 70% or higher.



The Crop Moisture Index includes western MT in an area identified as, "abnormally dry," while soil moisture values for the rest of the state continue, "slightly dry/favorably moist."



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

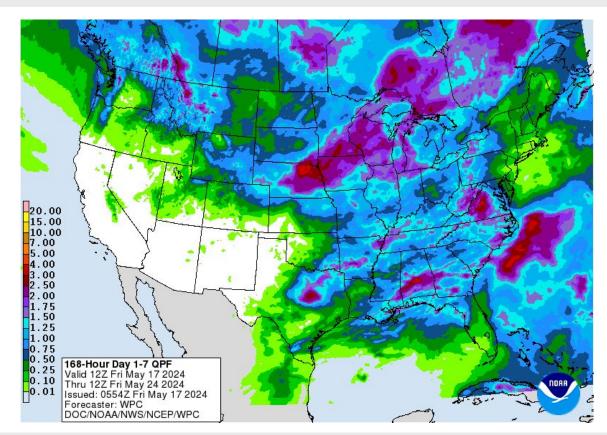
- Grasslands: Fire impacts continue possible a few weeks after fuels dry out.
- Mountains: Fire season begins after the snow melts out.





Seven Day Precipitation Forecast

- During the week of, May 17-24, 2024, the western two thirds of the state is forecast to receive in excess of 0.75", with the mountains receiving as much as 1.75" to 3" of liquid precipitation.
- The eastern third of the state is forecast to receive 0.25" to 0.75" of moisture during the same period.

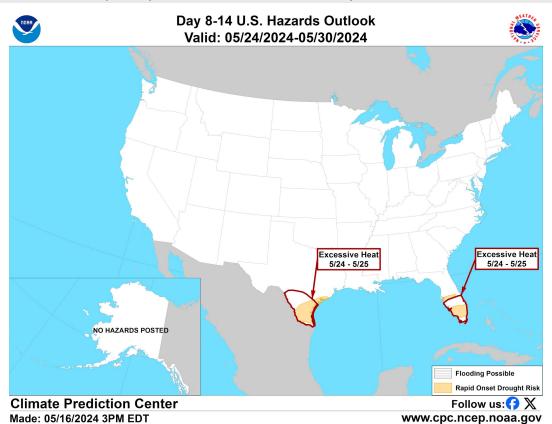




Rapid Onset Drought Outlook

Links to the latest Climate Prediction Center 8 to 14 day Temperature Outlook and Precipitation Outlook.

 As of this time, no significant hazards are forecast to occur across The Treasure State from, May 24th through May 30th.





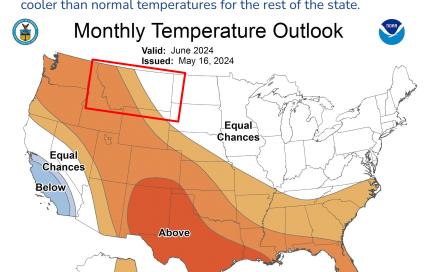
Long Range Outlooks

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

Likely

Below

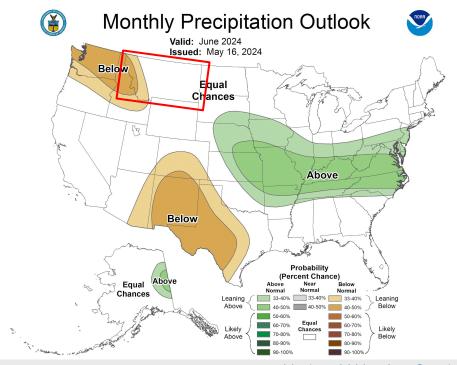
 Looking ahead to the month of June, there is a higher probability for the western two thirds of the state to experience warmer than normal temperatures, while the outlook shows equal chances for warmer or cooler than normal temperatures for the rest of the state.



Probability

(Percent Chance)

 Western and portions of southwestern MT show a better chance for below normal moisture, while there are equal chances for above or below normal precipitation for the rest of MT.





Segual ...

Chances

Drought Outlook

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

- **Persisting:** Drought conditions are predicted to persist across much of western MT, as well as, portions of central, southern and eastern MT.
- **Developing:** Portions of eastern MT
- **Improving:** Isolated areas of northwestern, central and southwestern MT
- **Ending:** Isolated areas of northwestern, central and south central MT

https://www.drought.gov/states/montana

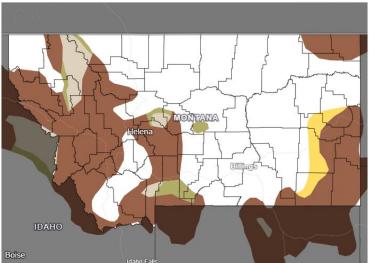
Links to the latest:

Climate Prediction Center Monthly Drought Outlook Climate Prediction Center Seasonal Drought Outlook

1-Month Drought Outlook











The Monthly Drought Outlook predicts whether drought will develop, remain, improve, or be removed in the next calendar month.

Source(s): Climate Prediction Center Data Valid: 04/30/24

Drought.gov



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

Hydrologic Impacts

- Mountain snowpack continues below normal, in terms of Snow Water Equivalent (SWE), for this time of year.
- Montana is, generally, sufficiently below normal precipitation values. Further spring moisture remains important.

Agricultural Impacts

Possible impacts to crops and grasslands

Fire Hazard Impacts

• Moisture replacement from now through June, along with the temperature trend during the last two weeks of June and the first week of July, will aid in assessing the summer season's fire impacts.

Other Impacts

• Impacts to outdoor recreation, especially river activities, are possible as we approach the Memorial Day Holiday, and the tourism season.

Mitigation Actions

- Low snowpack does not equate to an absence of flooding. Flooding is possible at any time until the snow melts out of the mountains.
- We continue to monitor any potential flooding impacts which may arise, during our moist season, and as we enter thunderstorm season.

