

Montana Drought Status

Troy Blandford

March 7, 2024



2023-01: Montana Drought Status by County

Moisture status by county for January 2023

View item details [7]





2023-02: Montana Drought Status by County

Moisture Status by County for February 2023

View item details [7]





2023-03: Montana Drought Status by County

Moisture Status by County for March 2023

View item details [7]





2023-04: Montana Drought Status by County

Moisture Status by County for April 2023

View item details [7]





2023-05: Montana Drought Status by County

Moisture Status by County for May 2023

View item details [7]





2023-06: Montana Drought Status by County

Moisture Status by County for June 2023

View item details [7]







2023-07: Montana Drought Status by County

Moisture Status by County for July 2023



2023-08: Montana Drought Status by County

Moisture status by county August 2023



2023-09: Montana Drought Status by County

Moisture Status by County for September 2023



2023-10: Montana Drought Status by County

Moisture Status by County for October 2023



2023-11: Montana Drought Status by County

Moisture Status by County for November 2023



2023-12: Montana Drought Status by County

Moisture Status by County for December 2023

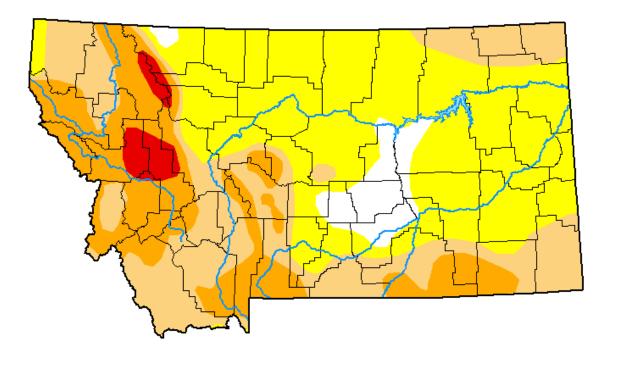
Synopsis

- Snow arrives (~10/25) but comes and goes...
 - In contrast, last year snow arrived and hung around.
- Slow start to the season. November and December below average precipitation.
- Weekly changes have been made to the US Drought Monitor Map (mostly degradations).
 - In contrast, last year primarily status quo or slight improvements December March.
- Moisture conditions positive as of late (30-45 days)

U.S. Drought Monitor Montana

March 5, 2024

(Released Thursday, Mar. 7, 2024)
Valid 7 a.m. EST



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:

Curtis Riganti National Drought Mitigation Center

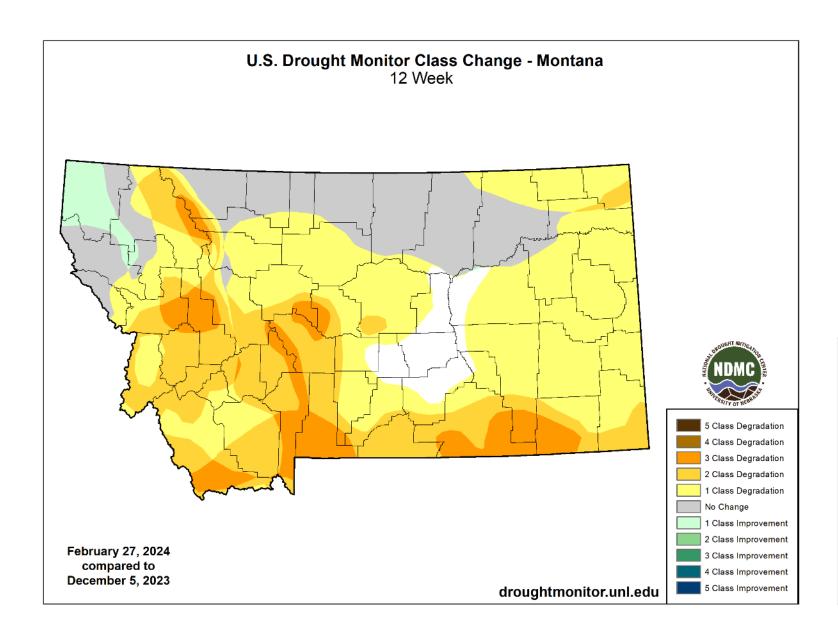




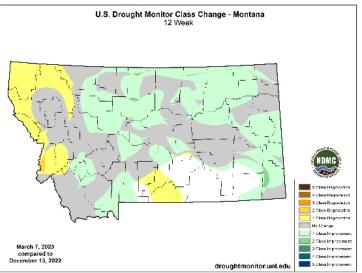




droughtmonitor.unl.edu



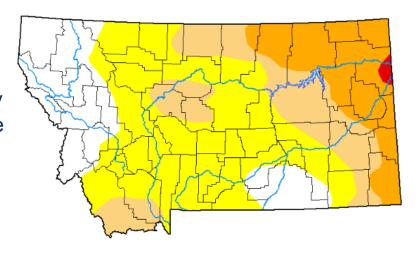
Last year at this time



MONTANA **STATE LIBRARY**

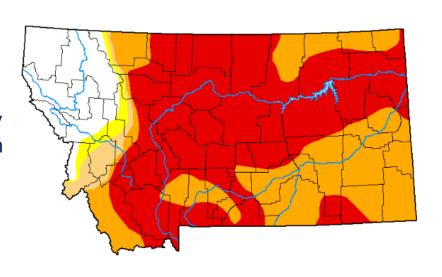
March 2021

Conditions steadily deteriorated for the remainder of the year, with nearly the entire state in Extreme Drought by August.



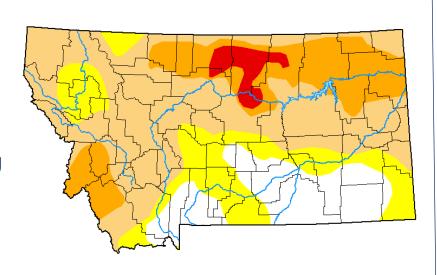
March 2022

Conditions slowly improved through June (except NC), then deteriorated into early Fall.



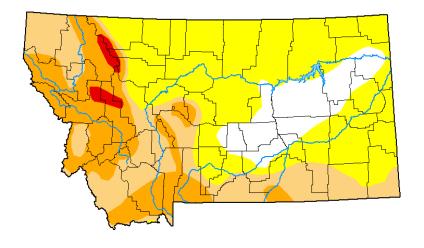
March 2023

Lookin' pretty good by June, then typical drying over the summer.



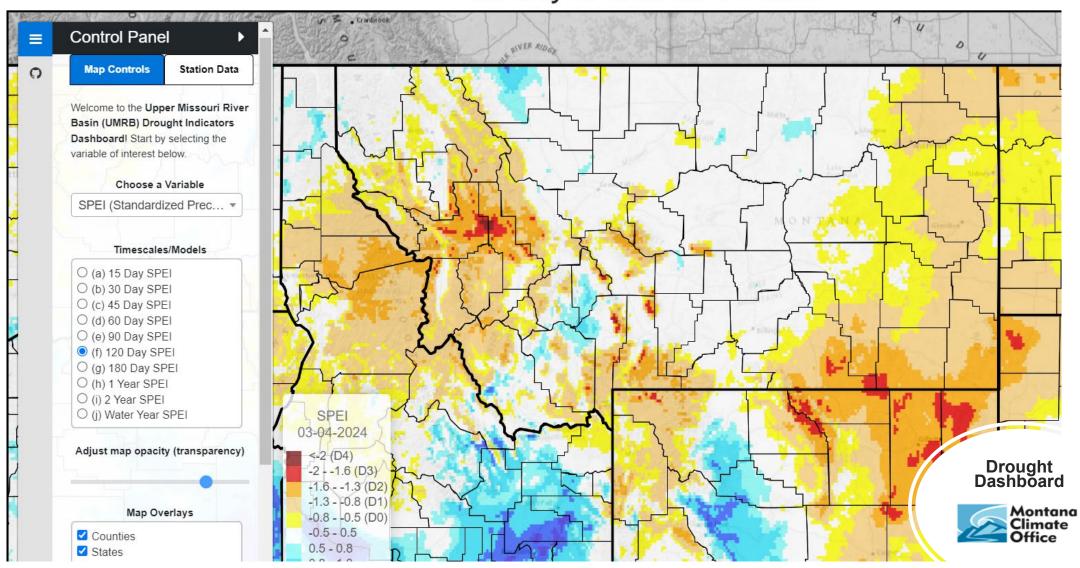
March 2024

How does this play out?



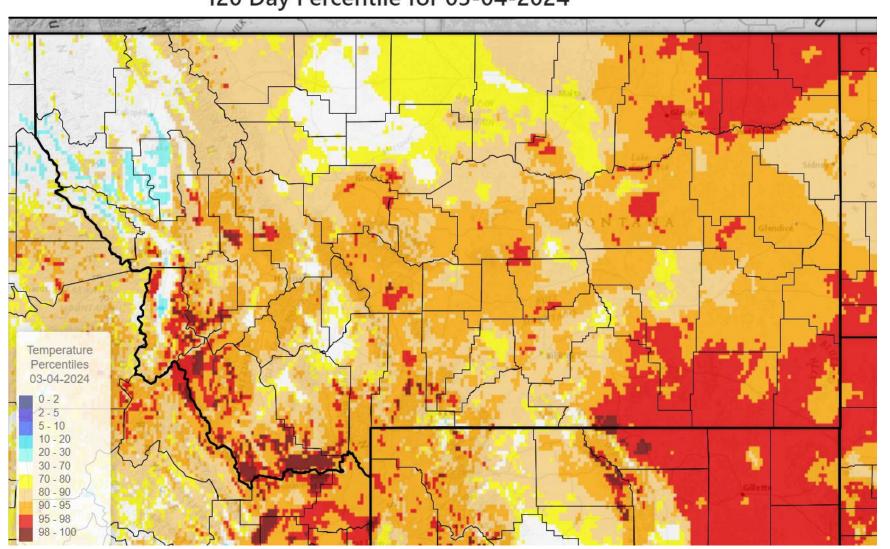
Drought Indicators Dashboard

120 Day SPEI for 03-04-2024

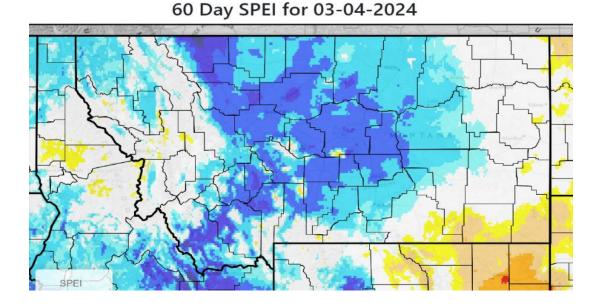


Temperature

120 Day Percentile for 03-04-2024



 The current drought map reflects longer range metrics. Expect this to change as spring progresses and shortterm moisture becomes more crucial.



Important Reminders



February

is the lowest precipitation month for most counties



March

Many counties east of the divide receive more precipitation in May or June than Jan, Feb, and March combined.



April

Quarter 2 (April, May, June) accounts for 35-45% of annual precipitation for most counties

 Q1 (Oct, Nov, Dec) accounts for 32% of the annual precipitation in Lincoln, Sanders, and Mineral



May

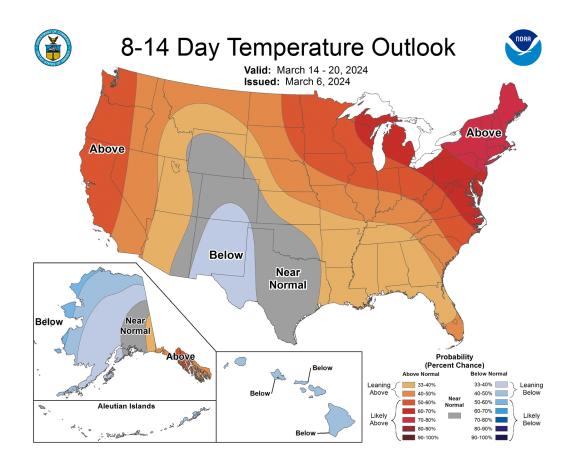
All but three counties receive the largest portion of annual precipitation in May or June

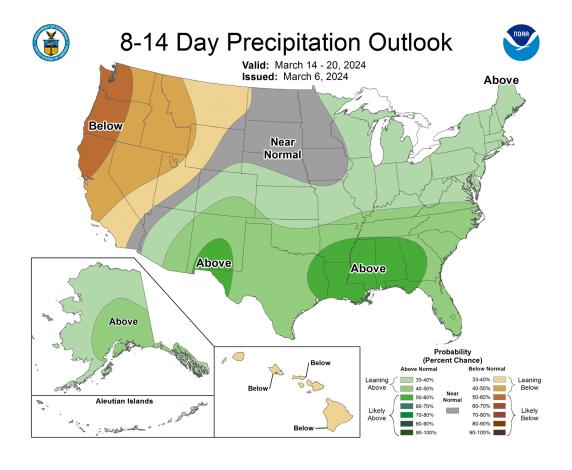
 November and December are the largest precipitation months for Lincoln, Sanders, and Mineral

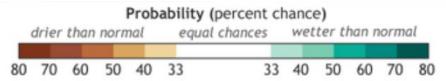


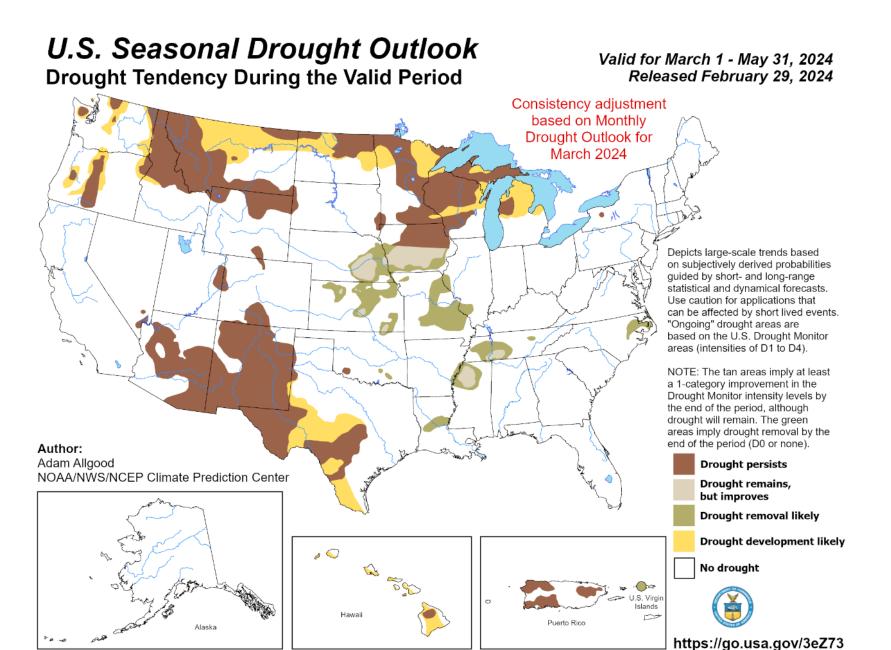
June

is the biggest precipitation month for most counties.







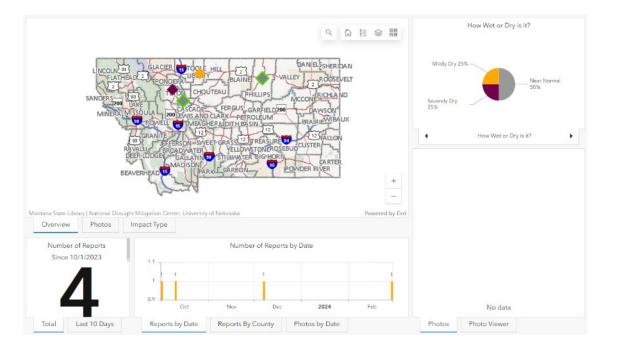


Montana Drought Impact Reporter

Reports received since Jan. 1, 2023

• Liberty County 2/29— mildly dry "Topsoil moisture seems adequate, but there was recent snow melt with minimal moisture infiltration due to frozen soils. As a result, subsoils are still rather dry, which may impact decisions to re-crop and also cause crop stress later in growing season. Winter wheat and pastures are still in winter

dormancy at this time. Spring planting for most crops still 4 to 8 weeks away."



Takeaways What to watch for this Spring



Will the snow accumulation season finish strong?



Do above average temperatures continue through Spring?



How flashy is Spring precipitation?



How does soil moisture respond?



Above normal precipitation and reasonable temperatures are needed the next three months for a favorable drought situation before summer.

Thank you. Questions?

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