

# North Central U.S. Climate and Drought Summary and Outlook

January 15, 2026

Dr. Zachary Hoylman

Assistant State Climatologist (MT)

Research Asst. Professor (University of Montana)



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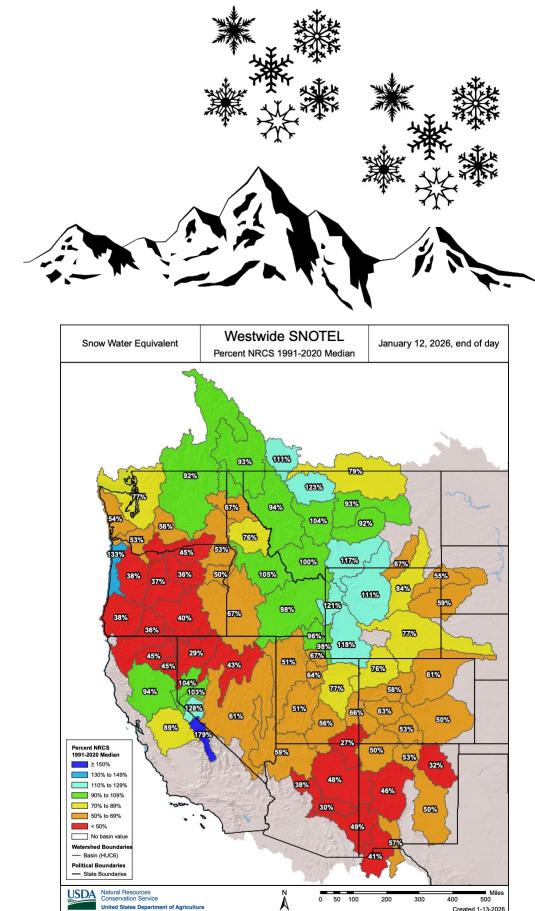
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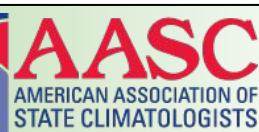
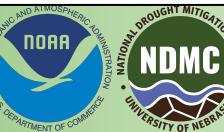
Missoula, MT - 1/15/2026

# GENERAL INFORMATION

- Providing climate services to the Central Region
- Collaboration Activity Between:
  - State Climatologists/American Association of State Climatologists
  - NOAA NCEI/NWS/OAR/
  - USDA Climate Hubs
  - Midwest and High Plains Regional Climate Centers
  - National Drought Mitigation Center
- Next Regular Climate/Drought Outlook Webinar
  - February 19th, 1pm CT - Austin Pearson  
Asst. State Climatologist (Indiana State Climate Office)
- Sign Up For This Zoom Series
  - [https://unl.zoom.us/meeting/register/IhQo\\_-DqSMu9ZOIYhFJFAw](https://unl.zoom.us/meeting/register/IhQo_-DqSMu9ZOIYhFJFAw)
- Recordings of Past Webinars
  - <https://mrcc.purdue.edu/webinars>
  - <https://hprcc.unl.edu/webinars.php>



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# SUMMARY AND OUTLINE

## - Recent Conditions

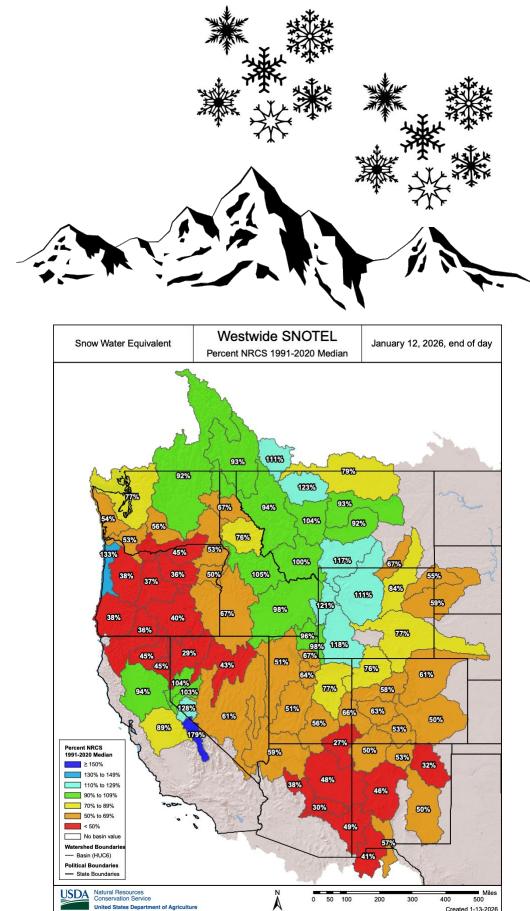
- 2025 Climate Recap
- 1-3 month & month-to-date precipitation / temperature
- Snow anomalies
- Soil Moisture
- Streamflow (current and forecast)
- Reservoirs
- Drought

## - Impacts

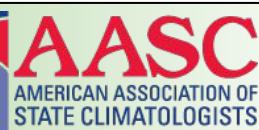
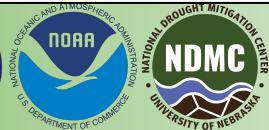
- Wild Wind!
- Unconventional Snowpack

## - Outlooks

- 8 day - 3 month precipitation and temperature
- ENSO Forecast
- Drought / Fire



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# 2025 Climate Recap



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# 2025 TEMPERATURE AND PRECIPITATION

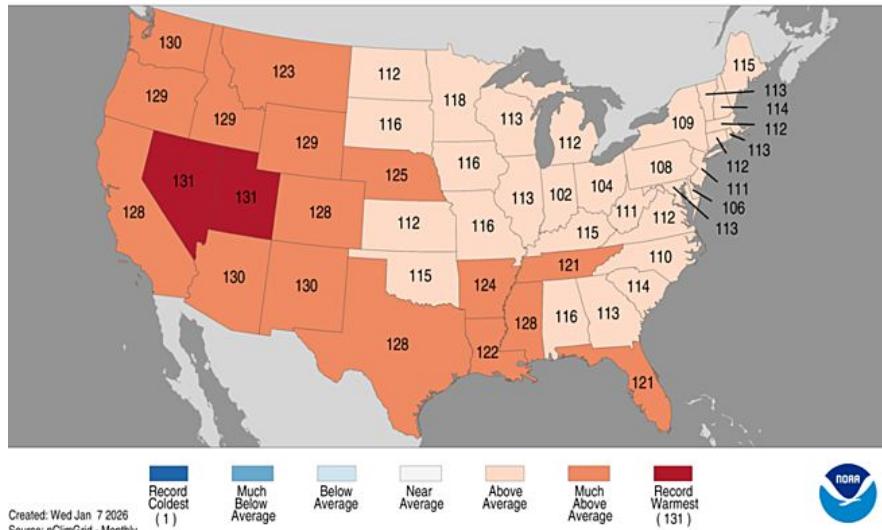
Above average in the UMRB, near normal or below normal for much of US

## Statewide Average Temperature Ranks

January - December 2025

Ranking Period: 1895-2025

NOAA's National Centers for Environmental Information



Warmest or near warmest year for much of the west.

Warmest on record for U.S. overall

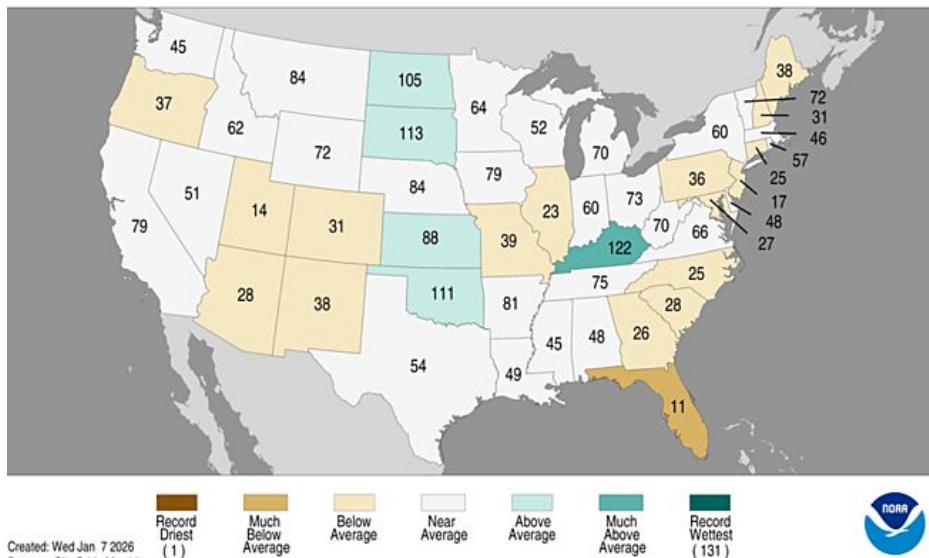
Above average for U.S. overall

## Statewide Precipitation Ranks

January - December 2025

Ranking Period: 1895-2025

NOAA's National Centers for Environmental Information



<https://www.ncei.noaa.gov/access/monitoring/us-maps/>



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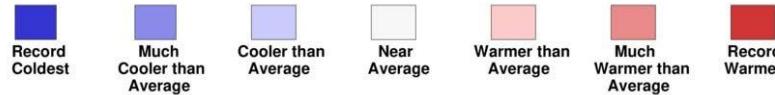
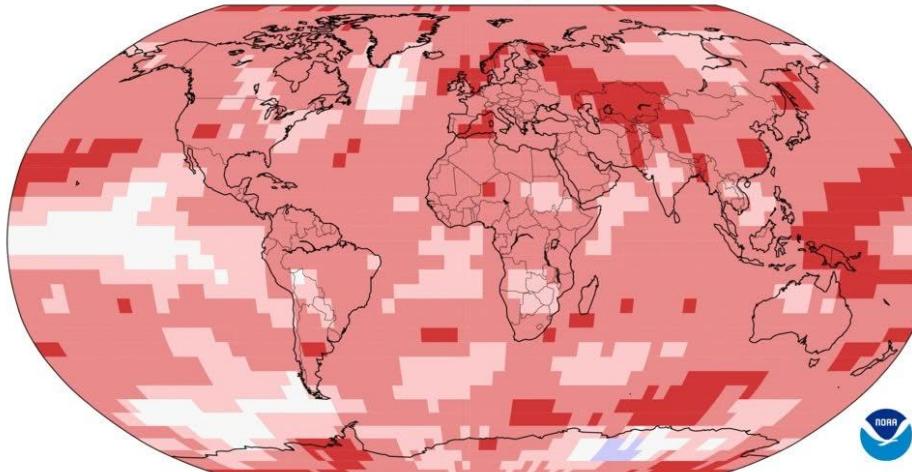
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# 2025 TEMPERATURE - GLOBAL

## Land & Ocean Temperature Percentiles Jan-Dec 2025

NOAA's National Centers for Environmental Information

Data Source: NOAAGlobalTemp v6.0.0-20260107



2025 ranks as the third-warmest year on record, since 1850

Annual sea ice extent for both the Arctic and Antarctic regions ranked among the three lowest years on record.

The Northern Hemisphere snow cover extent was the third lowest on record.



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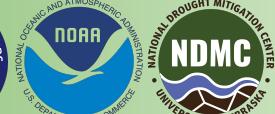
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# Recent Conditions



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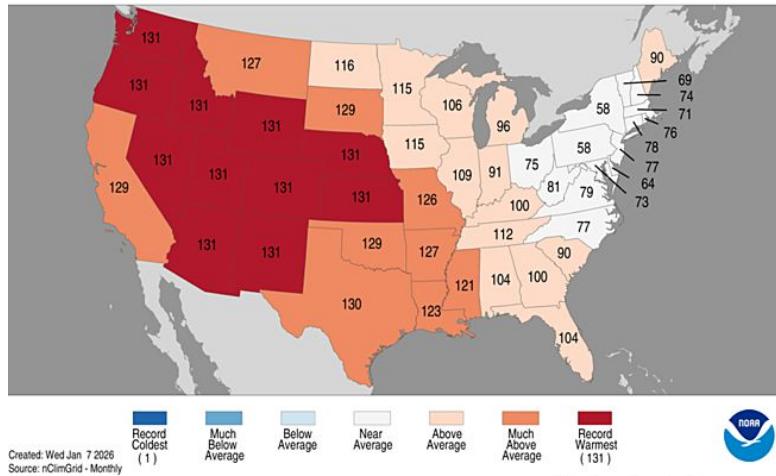
# 3 MONTH TEMPERATURE AND PRECIPITATION

Statewide Average Temperature Ranks

October - December 2025

Ranking Period: 1895-2025

NOAA's National Centers for Environmental Information



Near Record Warmest  
Oct - Dec for CONUS



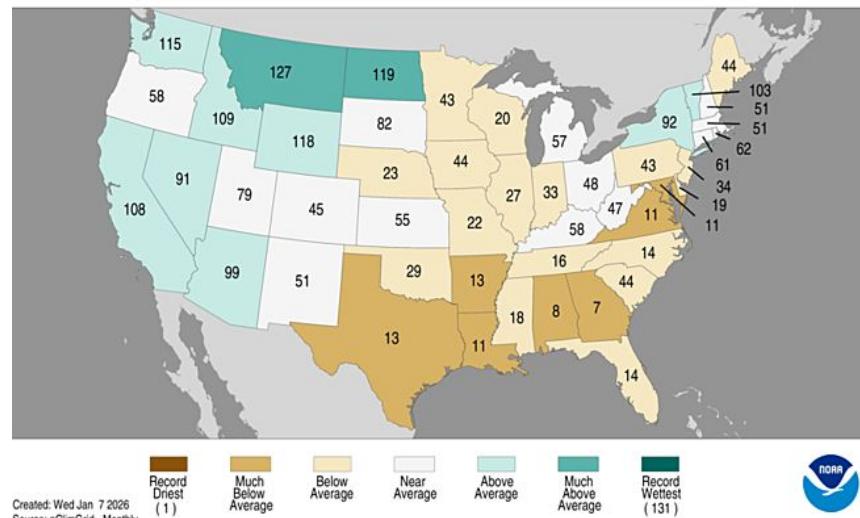
37th Driest Oct - Dec for CONUS  
\*drier than normal\*  
(Wetter than Normal for UMRB)

Statewide Precipitation Ranks

October - December 2025

Ranking Period: 1895-2025

NOAA's National Centers for Environmental Information



<https://www.ncei.noaa.gov/access/monitoring/us-maps/>



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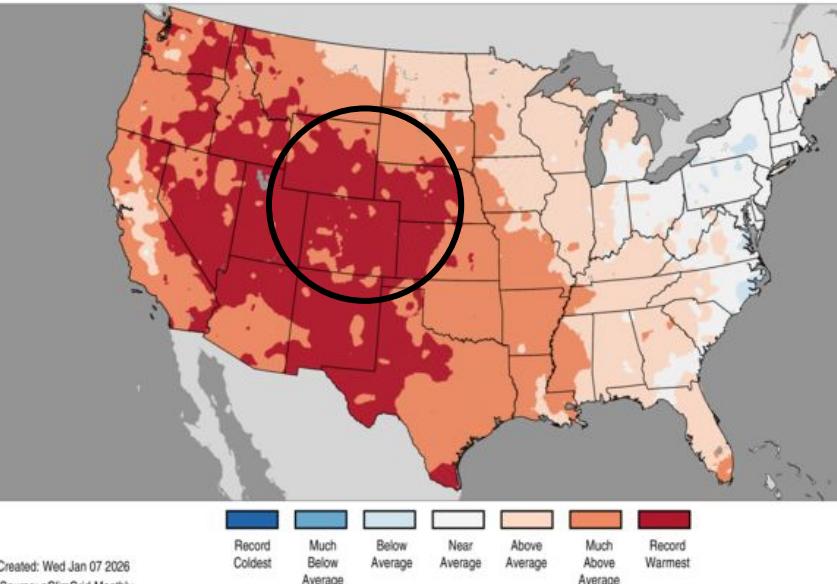
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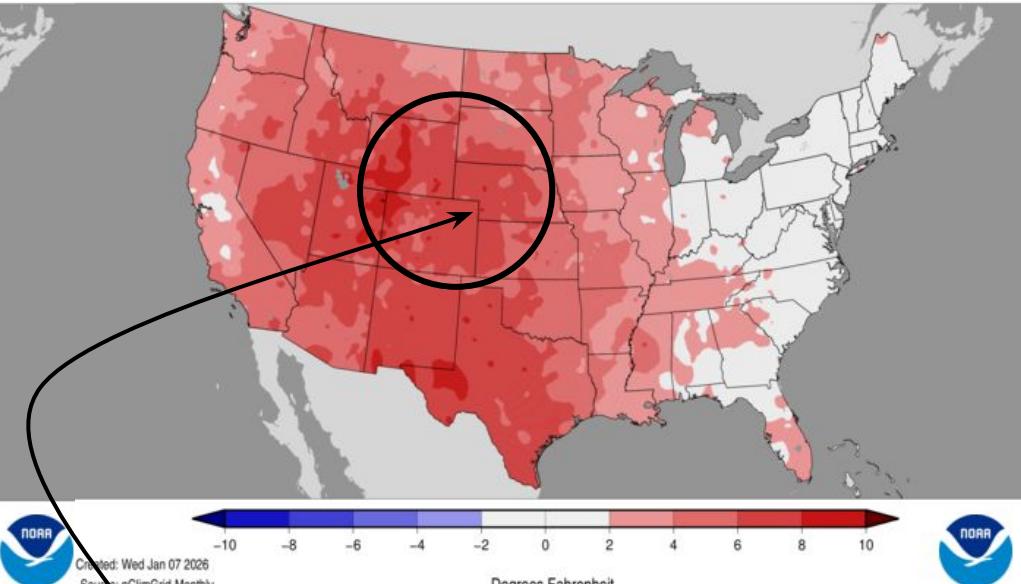
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# 3 MONTH **TEMPERATURE** PERCENTILE & ANOMALY

Mean Temperature Percentiles  
October-December 2025  
Ranking Period: 1895-2025  
NOAA's National Centers for Environmental Information



Mean Temperature Departures from Average  
October-December 2025  
Average Period: 1901-2000  
NOAA's National Centers for Environmental Information

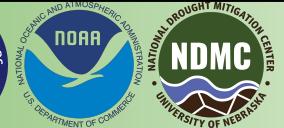


+4-8°F above normal on average!

<https://www.ncei.noaa.gov/access/monitoring/us-maps/>



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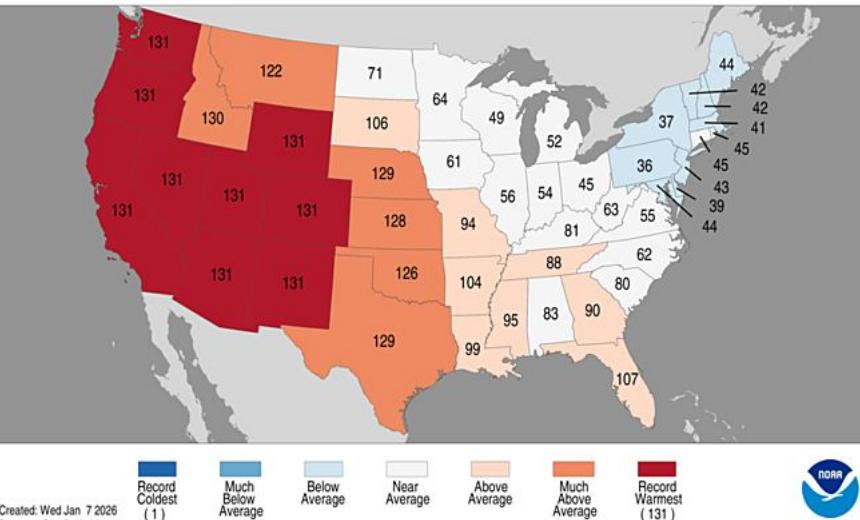
# 1 MONTH TEMPERATURE AND PRECIPITATION

## Statewide Average Temperature Ranks

December 2025

Ranking Period: 1895-2025

NOAA's National Centers for Environmental Information



5th Warmest December for CONUS  
(127th of 131 Years)

<https://www.ncei.noaa.gov/access/monitoring/us-maps/>

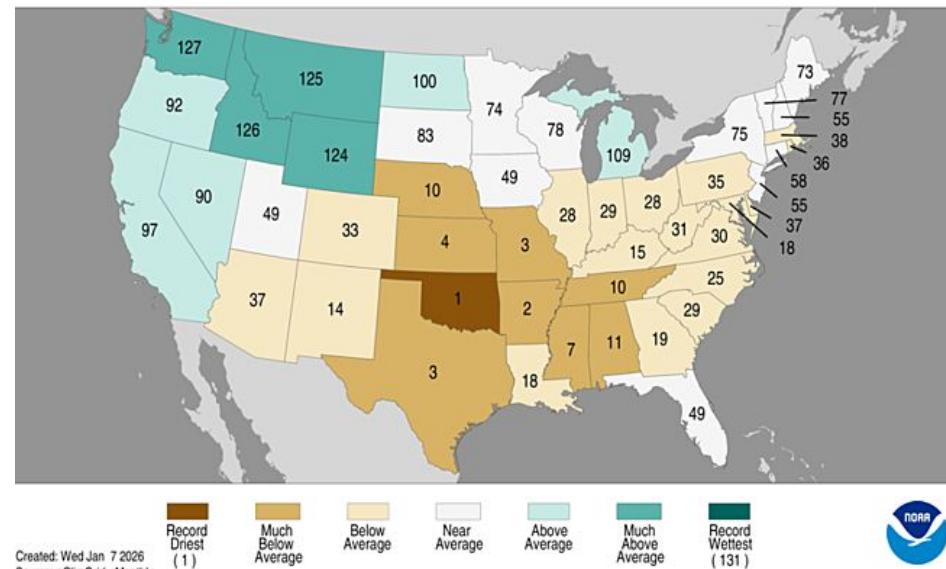
## Average CONUS December Precipitation (37th of 131 Years)

## Statewide Precipitation Ranks

December 2025

Ranking Period: 1895-2025

NOAA's National Centers for Environmental Information



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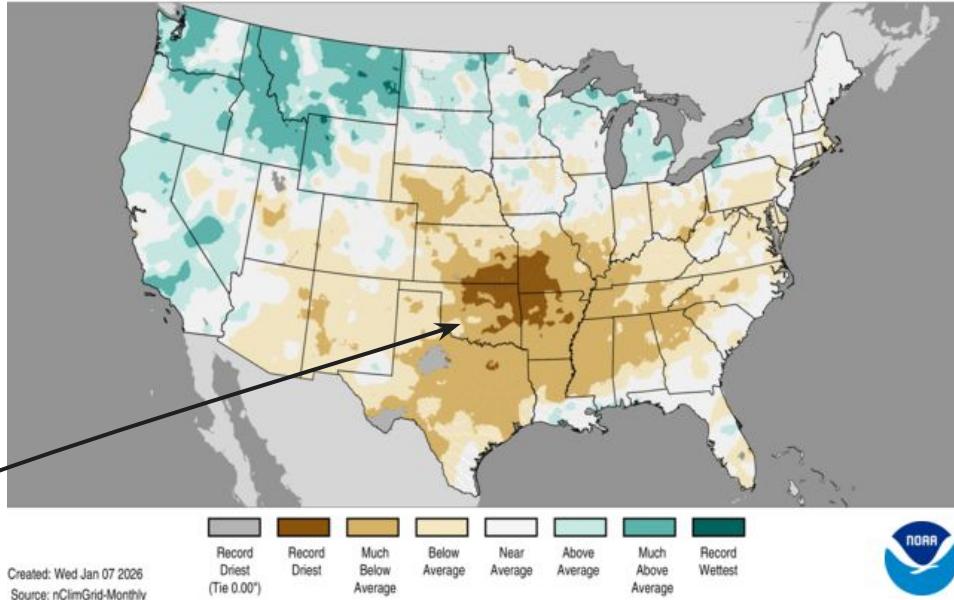
# DECEMBER PRECIPITATION PERCENTILE

## Total Precipitation Percentiles

December 2025

Ranking Period: 1895-2025

NOAA's National Centers for Environmental Information



Record low precipitation in Kansas, Oklahoma, Missouri and Arkansas in December



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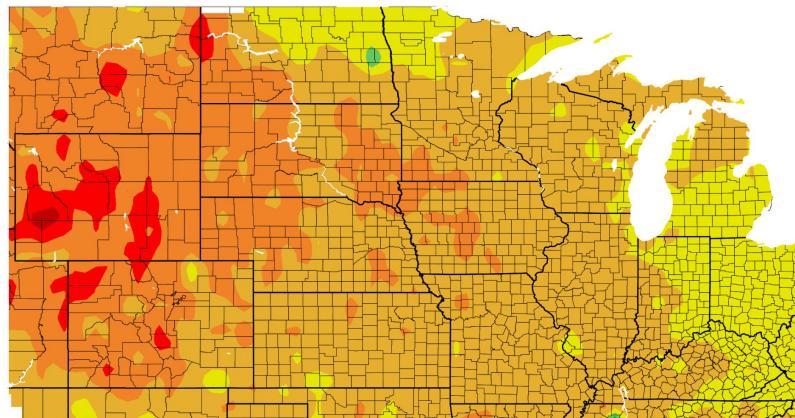


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# Last 30 Days: Temperature departure from mean

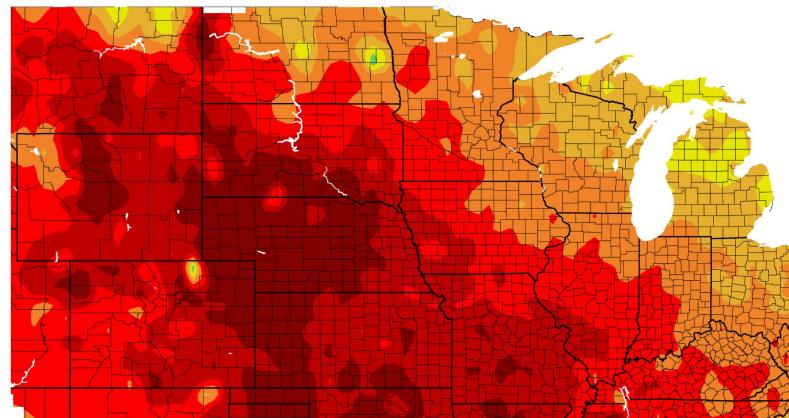
Departure from Normal Average Minimum Temperature (F)  
12/16/2025 – 1/14/2026



Generated 1/15/2026 using provisional data.



Departure from Normal Average Maximum Temperature (F)  
12/16/2025 – 1/14/2026



Generated 1/15/2026 using provisional data.

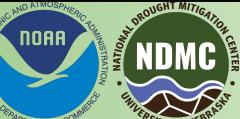


<https://hprcc.unl.edu/>



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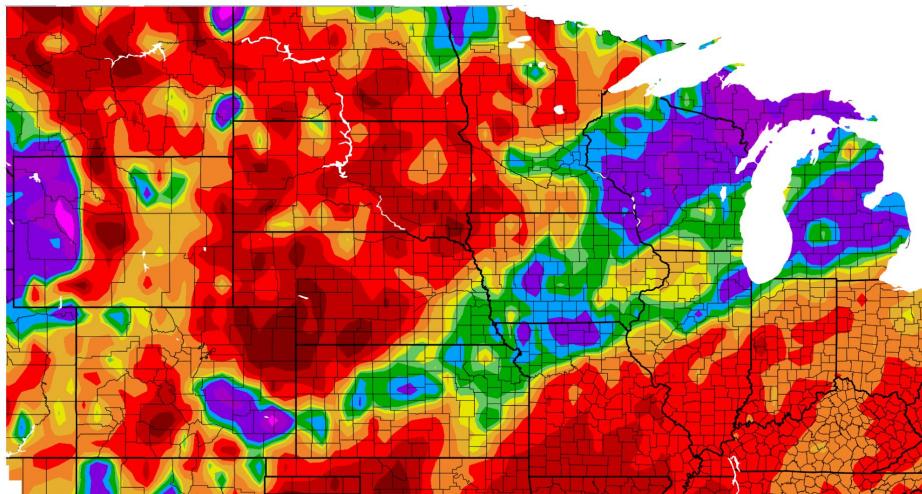
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# Last 30 Days: Precipitation Percent of Mean

Percent of Normal Precipitation (%)  
12/16/2025 – 1/14/2026



Generated 1/15/2026 using provisional data.

ACIS Web Services

<https://hprcc.unl.edu/>



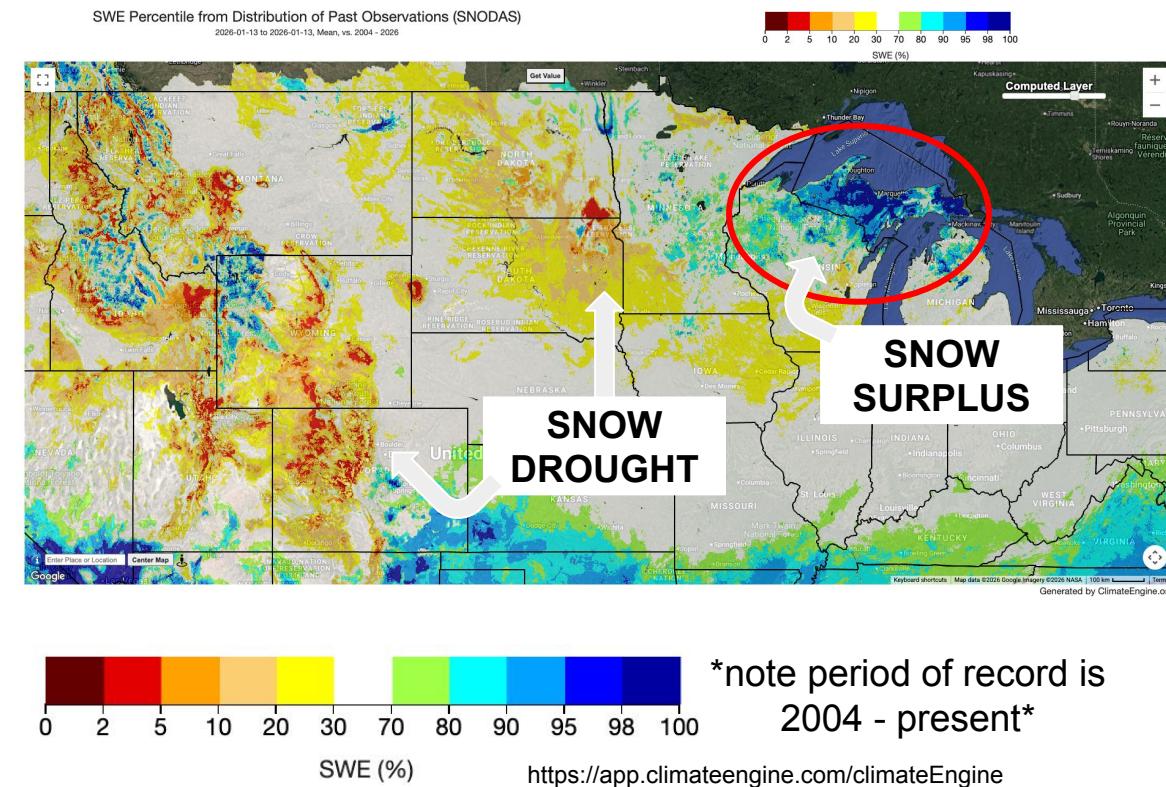
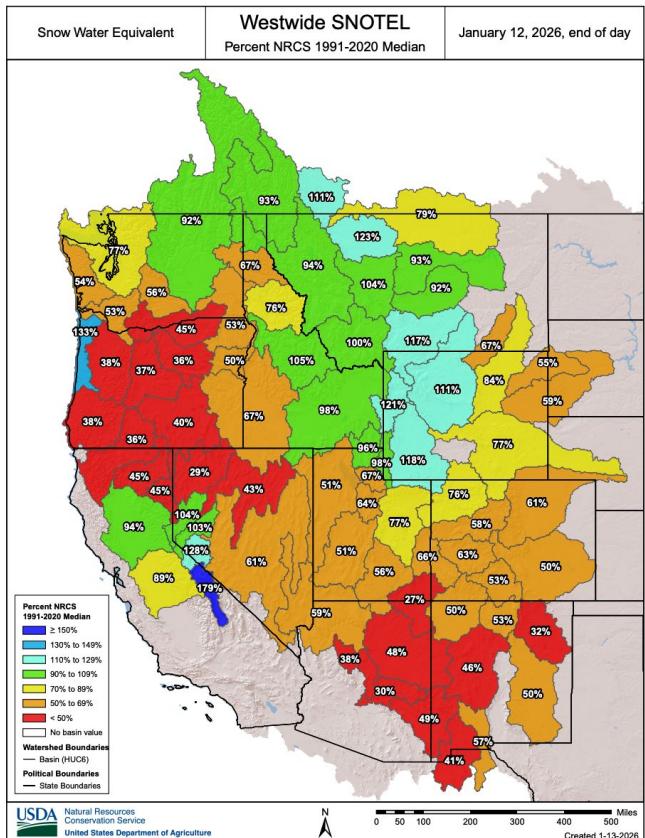
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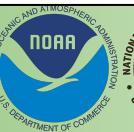


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# SEASONAL SNOW WATER EQUIVALENT (ON THE GROUND CURRENTLY)



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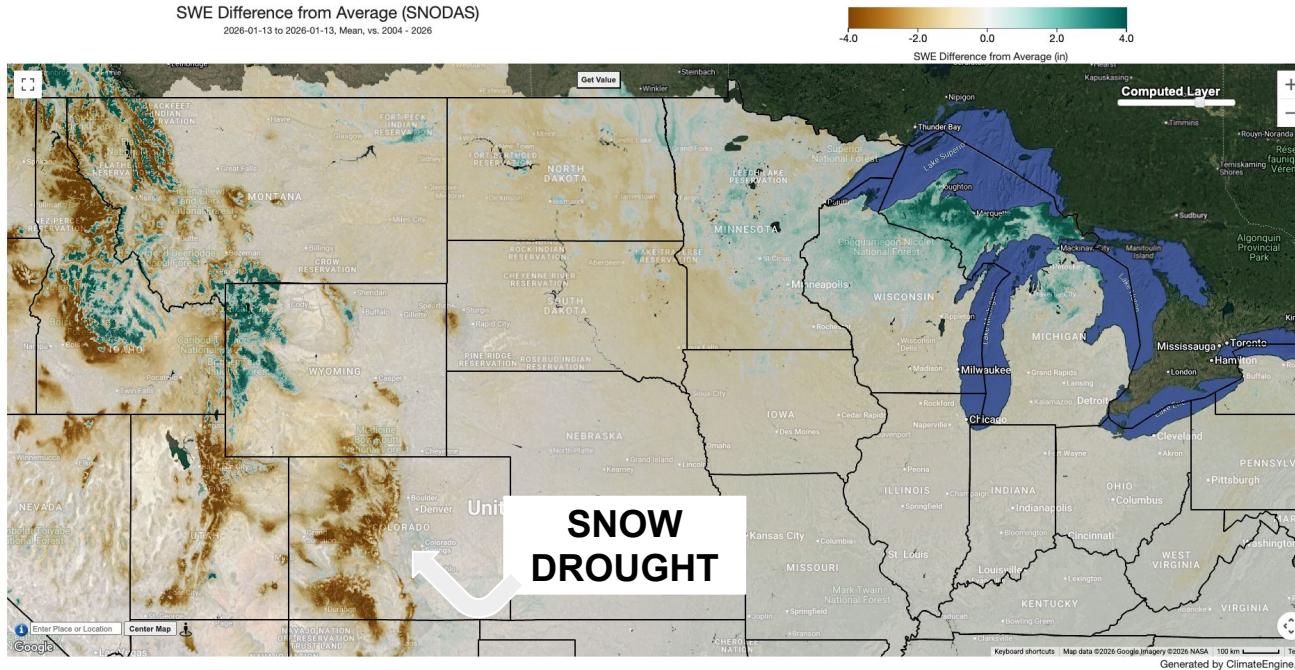
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# SEASONAL SNOW WATER EQUIVALENT (Difference from Average)



Generally **Above Average** in WY, **Well Below Average** in CO, Mixed in MT  
\*note period of record is 2004 - present\*

<https://app.climateengine.com/climateEngine>



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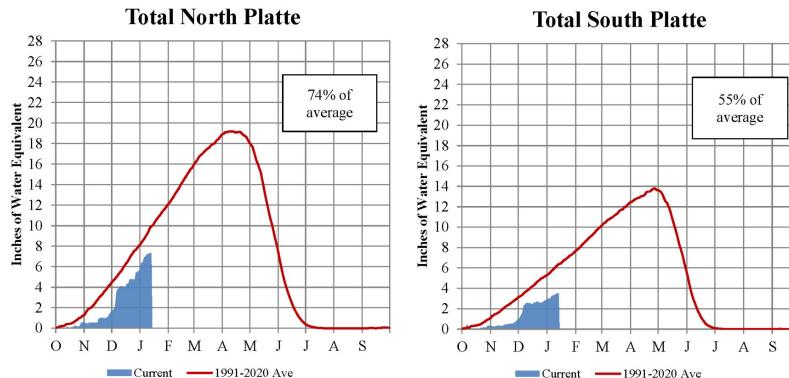


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# SEASONAL SNOW WATER EQUIVALENT (SWE Accumulation)

## PLATTE RIVER BASIN

### Platte River Basin - Mountain Snowpack Water Content Water Year 2025-2026 January 14, 2026



The North and South Platte River Basin mountain snowpacks normally peak near April 10 and the end of April, respectively. As of January 14, 2026, the mountain snowpack SWE in the "Total North Platte" reach is 7.3", 74% of the (1991-2020) average. The mountain snowpack SWE in the "Total South Platte" reach is 3.5", 55% of the (1991-2020) average.

Source: USDA, Natural Resource Conservation Service

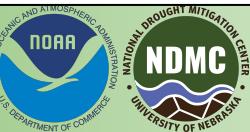
Provisional Data. Subject to Revision

<https://www.nwd-mr.usace.army.mil/rcc/>



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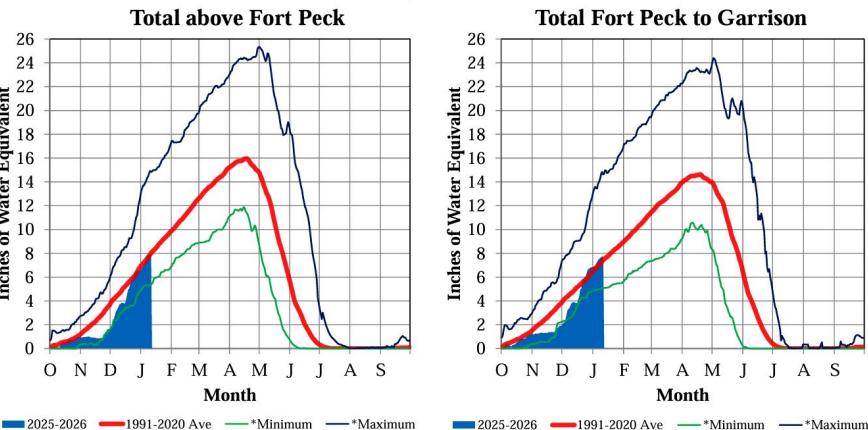
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## MISSOURI RIVER BASIN

### Missouri River Basin – Mountain Snowpack Water Content 2025-2026 with comparison plots from recent high and low years 11-Jan-2026

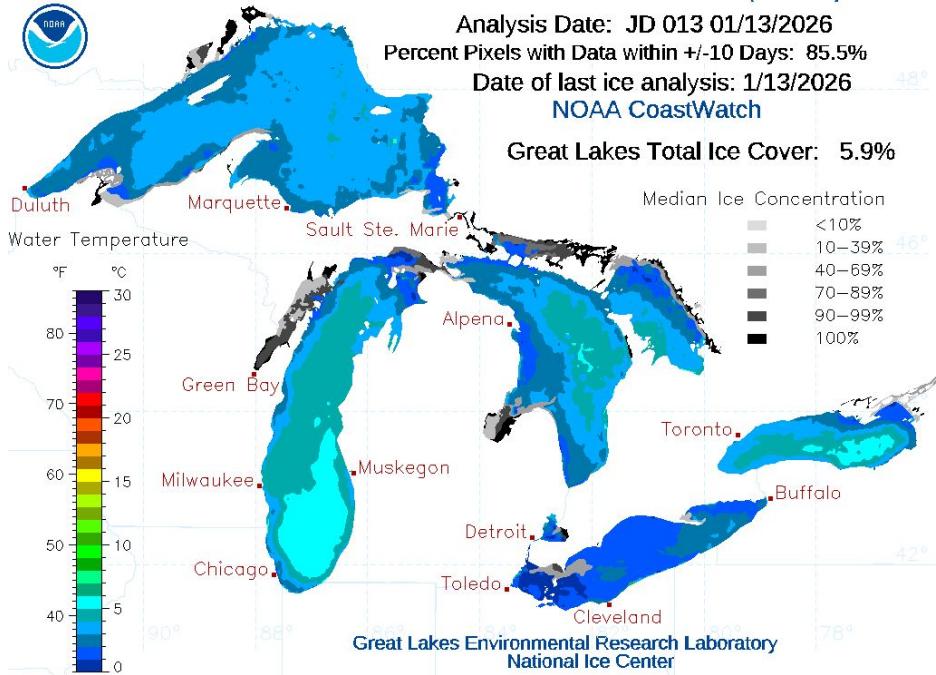


On January 11, 2026 the mountain Snow Water Equivalent (SWE) in the "Total above Fort Peck" reach is 7.9" and 99% of the (1991-2020) average. The mountain SWE in the "Fort Peck to Garrison" reach is 7.8" and 104% of the (1991-2020) average. The normal peak for both reaches occurs near April 17.

\*Refers to the minimum or maximum SWE in the basin for that day in the historical years 1991-2020.

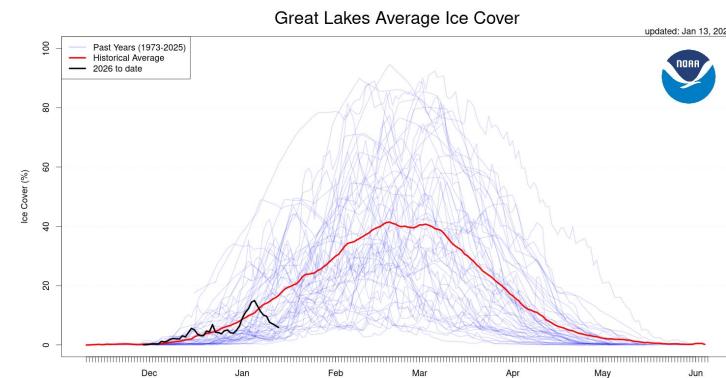
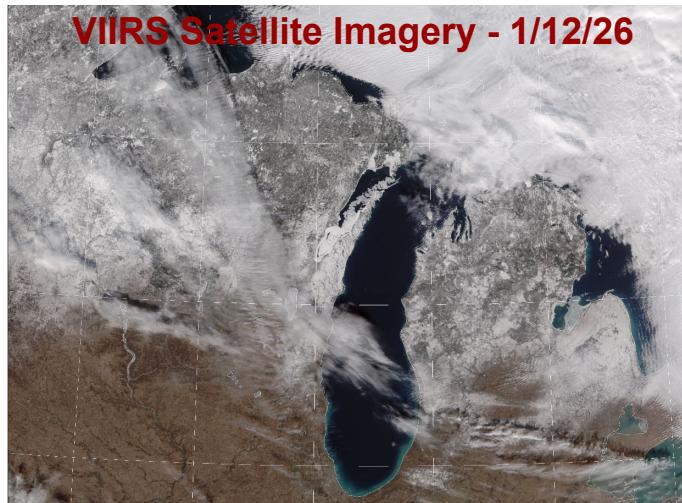
Provisional data. Subject to revision.

# GREAT LAKES ICE COVER



**5.9% Ice Cover - Well Below Normal**

[https://www.weather.gov/cle/GreatLakesIce\\_Analysis](https://www.weather.gov/cle/GreatLakesIce_Analysis)



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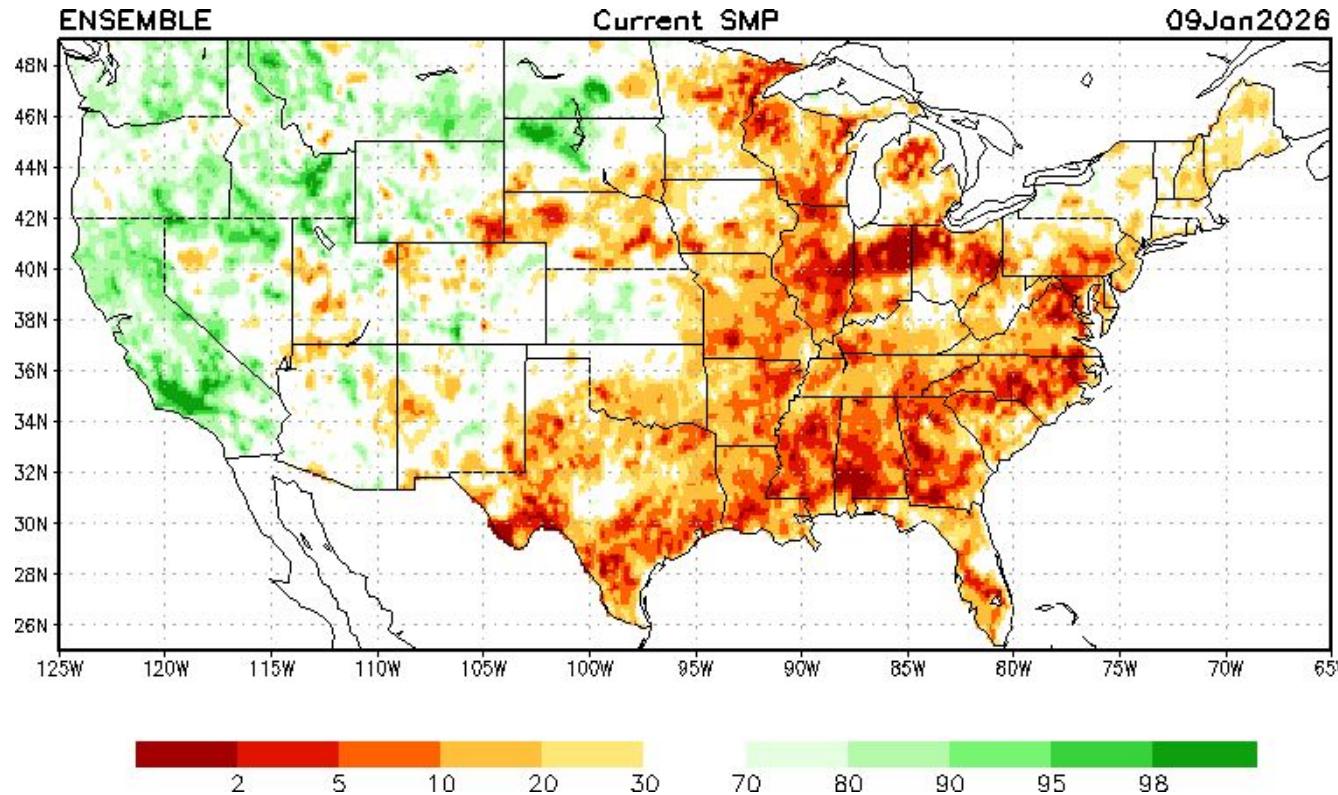
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# SOIL MOISTURE PERCENTILES

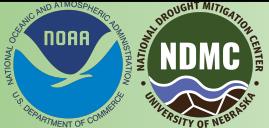


[https://www.cpc.ncep.noaa.gov/products/Drought/Monitoring/smp\\_new.shtml](https://www.cpc.ncep.noaa.gov/products/Drought/Monitoring/smp_new.shtml)



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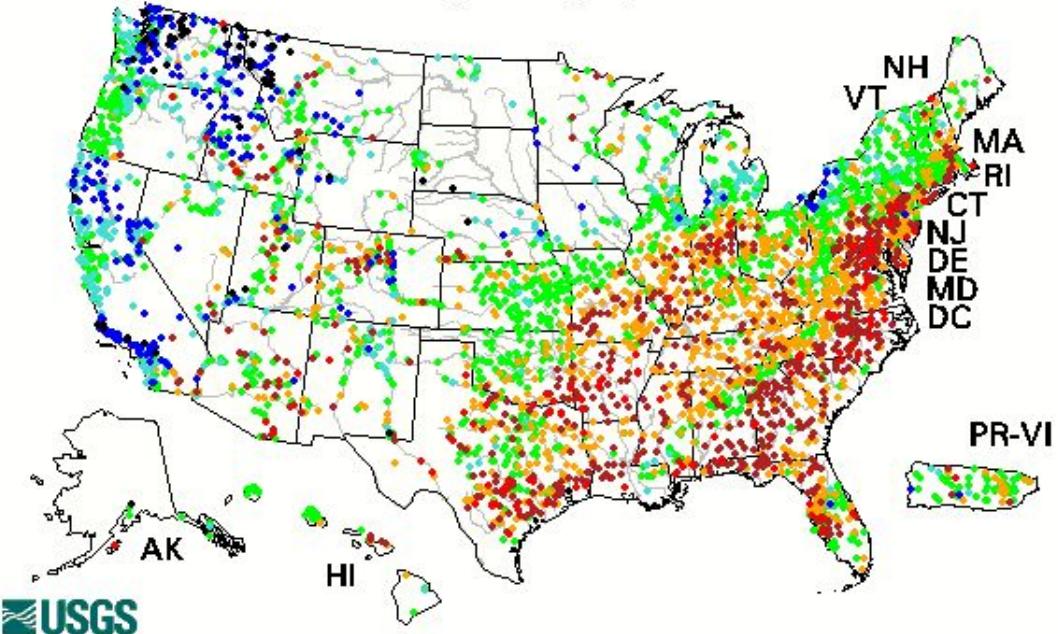
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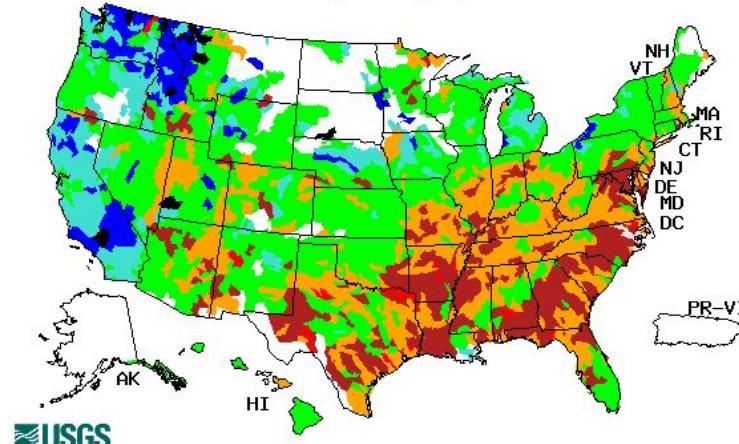
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# STREAMFLOW PERCENTILES (28-day)

Tuesday, January 13, 2026



Tuesday, January 13, 2026



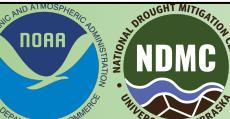
Explanation - Percentile classes						
Low	<10	10-24	25-75	76-90	>90	High
Much below normal	Below normal	Normal	Above normal	Much above normal		No Data

<https://waterwatch.usgs.gov/>



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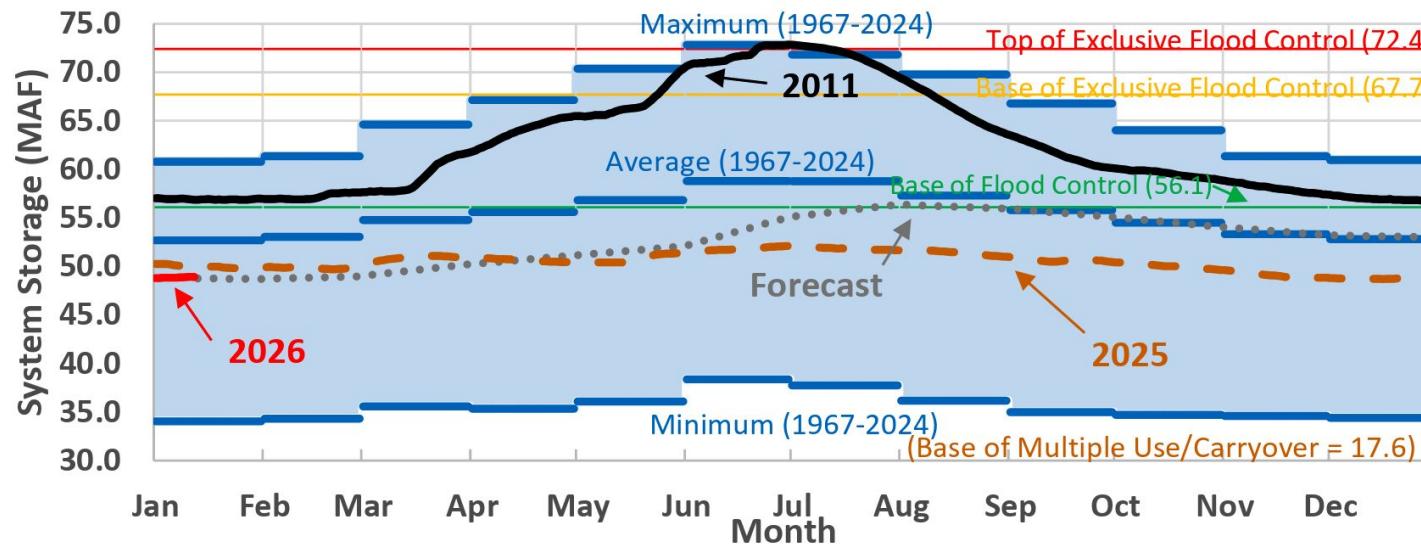


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# MISSOURI RIVER RESERVOIR STORAGE

## System Storage Comparison



"Mountain snowpack is currently near average in both the Fort Peck and Garrison reaches"

<https://www.nwd-mr.usace.army.mil/rcc/reports/pdfs/weeklyupdate.pdf>

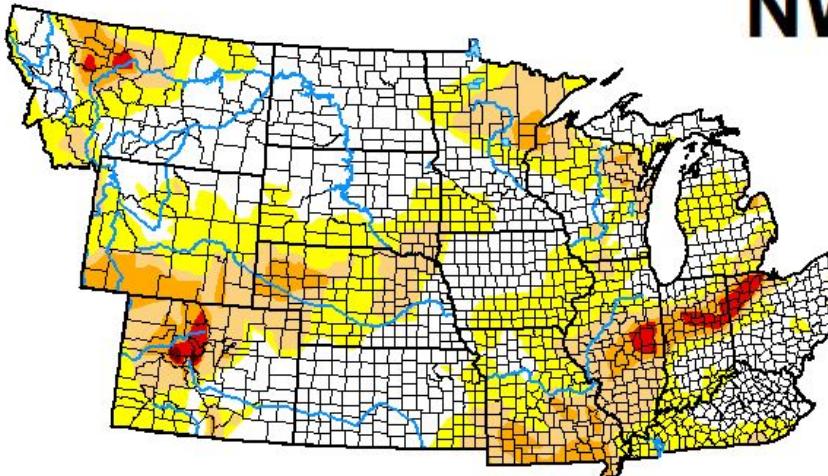


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# U.S. DROUGHT MONITOR



## U.S. Drought Monitor NWS Central

January 13, 2026  
(Released Thursday, Jan. 15, 2026)  
Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	45.43	54.57	25.29	8.35	1.43	0.07
Last Week 01-06-2026	38.91	61.09	29.46	8.46	1.41	0.06
3 Months Ago 10-14-2025	42.00	58.00	30.72	14.03	3.44	0.00
Start of Calendar Year 01-06-2026	38.91	61.09	29.46	8.46	1.41	0.06
Start of Water Year 09-30-2025	45.92	54.08	28.92	14.16	3.88	0.00
One Year Ago 01-14-2025	32.20	67.80	45.72	19.43	5.80	0.00

Intensity:

<input type="checkbox"/>	None	<input type="checkbox"/>	D2 Severe Drought
<input type="checkbox"/>	D0 Abnormally Dry	<input type="checkbox"/>	D3 Extreme Drought
<input type="checkbox"/>	D1 Moderate Drought	<input type="checkbox"/>	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:

Brian Fuchs  
National Drought Mitigation Center



[droughtmonitor.unl.edu](https://droughtmonitor.unl.edu)

<https://droughtmonitor.unl.edu/>



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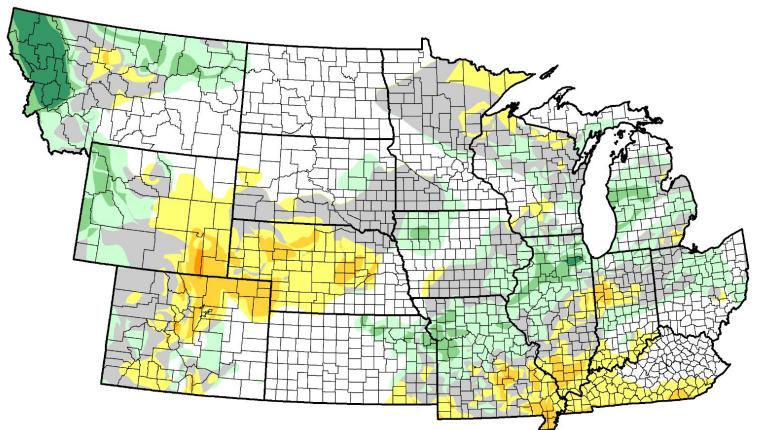
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# U.S. DROUGHT MONITOR CHANGE (10 WEEK and 1 YEAR)



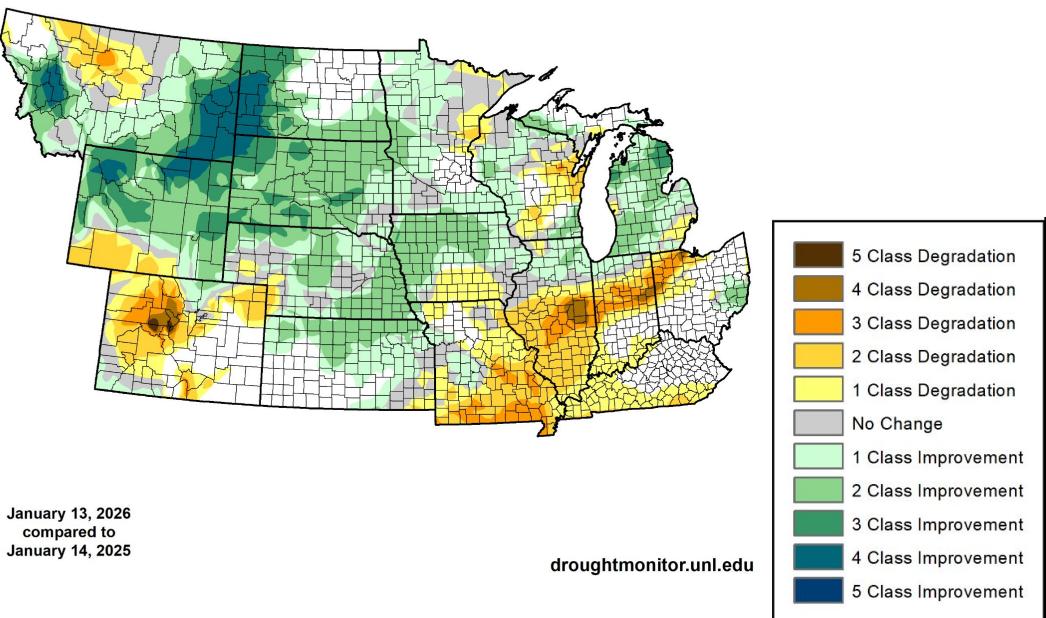
U.S. Drought Monitor Class Change - NWS Central  
10 Week



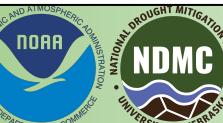
[droughtmonitor.unl.edu](http://droughtmonitor.unl.edu)

<https://droughtmonitor.unl.edu/>

U.S. Drought Monitor Class Change - NWS Central  
52 Week



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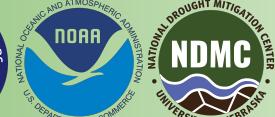


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# December Wind Event!

- Bynum W - MT Mesonet Station in Teton County recorded **104 mph on Dec. 17**
- Rapid City, S.D., reported a **record 94 mph Dec. 18.**
- **Governor Gianforte Issues Executive Order Declaring Wind Disaster** (Dec 17) in Montana
- The event was driven by rapid cyclogenesis in a mid-latitude cyclone crossing the Rockies.
- First of its kind "Particularly Dangerous Situation" issued in Colorado for high fire danger
- Caused widespread damage to power lines, trees, vehicles, and buildings, generating extensive debris.

## Violent Windstorm Leaves 31,000 Without Power Across Northwest Montana



A semi-truck overturned by a violent wind storm lies on its side on a two-lane highway.   
PHOTO: FLATHEAD BEACON

**FLATHEAD BEACON**

Planned  
**Montana Climate Office**  
@mt\_climate

Top five wind gusts recorded by the #MontanaMesonet so far today:

- 1) 104 mph (!!!): Bynum W (Teton Co.)
- 2) 95 mph: Dog Gun Lake E (Glacier Co.)
- 3) 90 mph: Augusta N (Teton Co.)
- 4) 88 mph: Mission Lake S (Glacier Co.)
- 5) 85 mph: Rothemay W (Golden Valley Co.)

#MTWX  
3:05 PM - Dec 17, 2025 • 1,111 Views

NEWS > MONTANA AND REGIONAL NEWS

## Governor declares 'Wind Disaster' across Montana



Photo by: MTN News  
Wind storm damage in Butte, Montana (December 17, 2025)

By: John Riley  
Posted 3:06 PM, Dec 18, 2025 and last updated 11:31 AM, Dec 19, 2025

HELENA — Governor Greg Gianforte on Thursday issued an executive order declaring a disaster following the destructive wind storm that roared across Montana on Wednesday, December 17, 2025.



## STATE OF MONTANA OFFICE OF THE GOVERNOR EXECUTIVE ORDER NO. 11-2025

### EXECUTIVE ORDER DECLARING A DISASTER TO EXIST WITHIN THE STATE OF MONTANA

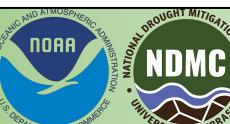
WHEREAS, on December 17, 2025 Montana began experiencing a severe, damaging high-wind event with record setting high winds, including gusts over 90 mph and sustained winds near 65 miles per hour (mph), which caused widespread damage to power lines, trees, vehicles, and buildings, and created large amounts of debris from fallen or damaged trees;

WHEREAS, as of 3:00 pm December 17, 2025, every county in Montana was under a National Weather Service "High Wind Warning" with numerous communities and tens of thousands of residents without power and roads closed as a result of downed trees and power lines;



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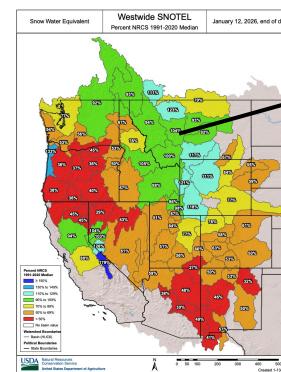


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University of Montana  
Missoula, MT - 1/15/2026

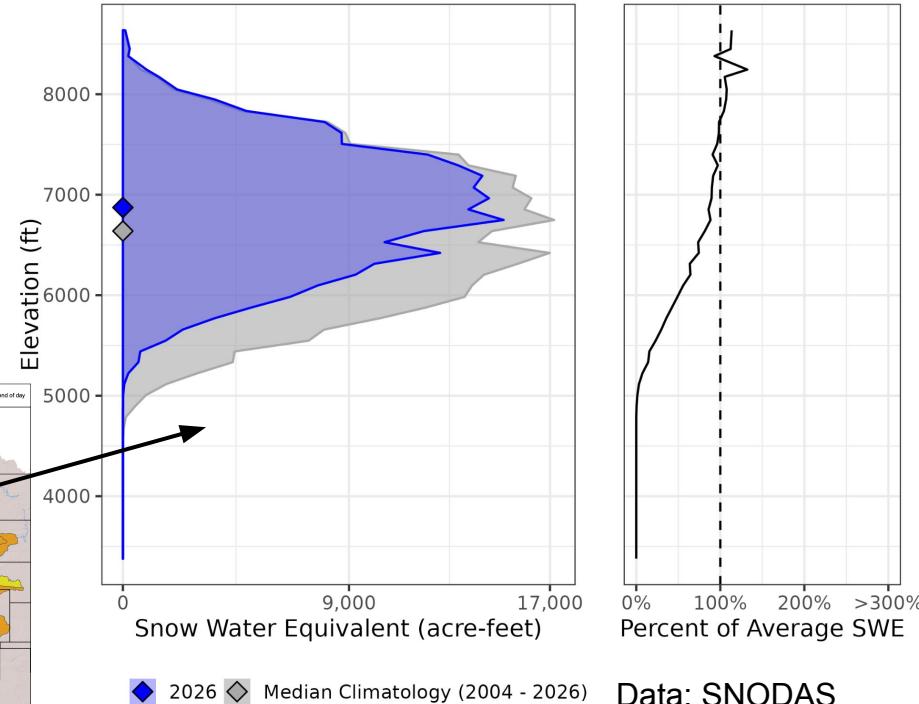
# An Unconventional Snowpack

- Snow accumulation this season is **highly elevation-dependent**
- Warm temperatures have **raised the rain–snow transition**
- Mountains retained snow; **lower elevations did not**
- Snowpack structure matters for **runoff timing and water supply**



## SUN RIVER MT - TRIBUTARY TO THE MISSOURI

2026-01-14 (72% of Normal)



Data: SNODAS



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ATMOSPHERIC  
ADMINISTRATION  
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University of Montana

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# An Unconventional Snowpack and Snow Drought!

## Climate change makes snowmaking a necessity, not a backup, for the West's ski resorts

As warming temperatures amplify drought in the Mountain West, ski areas across the region are considering how best to use increasingly scarce water resources.

AXIOS Denver

Sign up for the newsletter

Updated Jan 13, 2026 - News

Colorado is on track for its worst snowpack on record

 Alayna Alvarez

[f](#) [X](#) [in](#) [book](#) [envelope](#) [Add Axios on Google](#)



Sparse snow conditions seen at Arapahoe Basin ski resort in Colorado's Summit County in mid-December. Photo: Hyoung Chang/The Denver Post via Getty Images

City Radio - December 22, 2025



Minneapolis Immigrant visa pause Verizon outa

U.S. NEWS

## Warm weather and low snowpack bedevil Western ski resorts

 CNN Climate

NEW Watch

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## The western US is in a snow drought, raising fears for summer water supplies

UPDATED JAN 9, 2026

By Andrew Freedman

 Bloomberg

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Wildfire Season: How to Protect Your Home | Utilities Turn to AI | Smoke and Air Quality | HEPA Filters < >

Newsletter | Weather Watch

## California's La Niña Paradox: Heavy Rain, Scant Snow Raise Fire Risks

Warm ocean temperatures have spawned ridges of high pressure across the North Pacific, bringing record rainfall but less snow, threatening a crucial reservoir used by farmers, cities, and hydroelectric power providers during summer.



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# Outlook

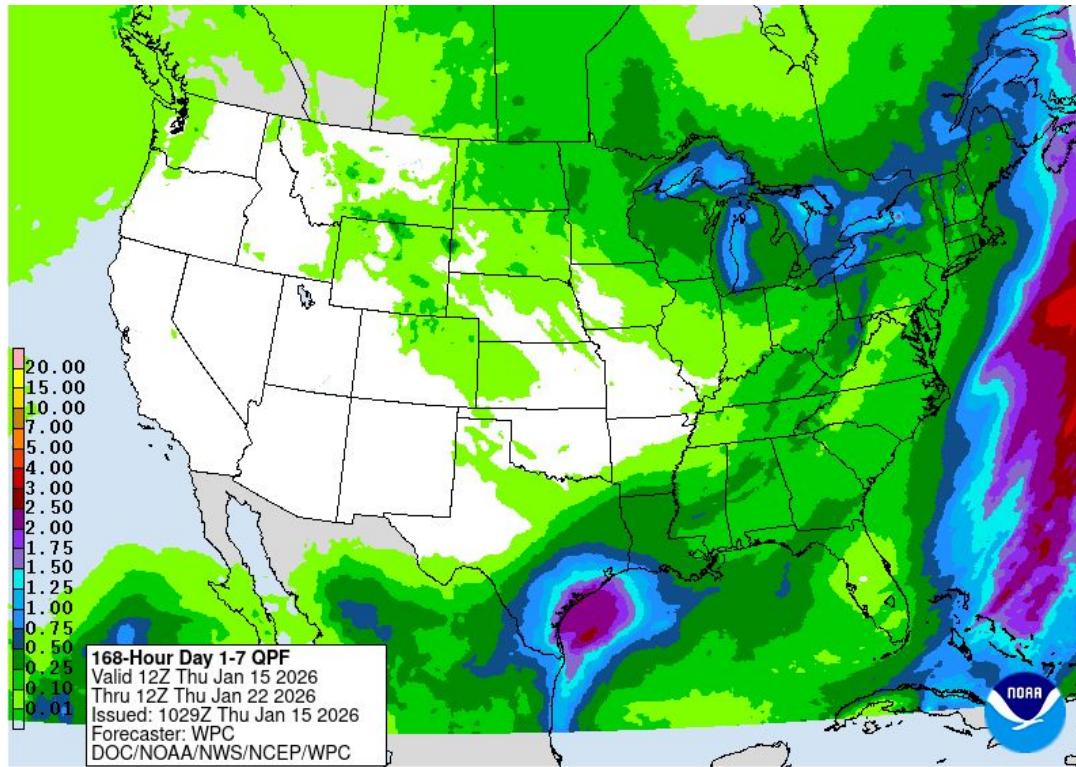


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# 7 DAY PRECIPITATION FORECAST (January 15 - 22)



<https://www.wpc.ncep.noaa.gov/qpf/day1-7.shtml>



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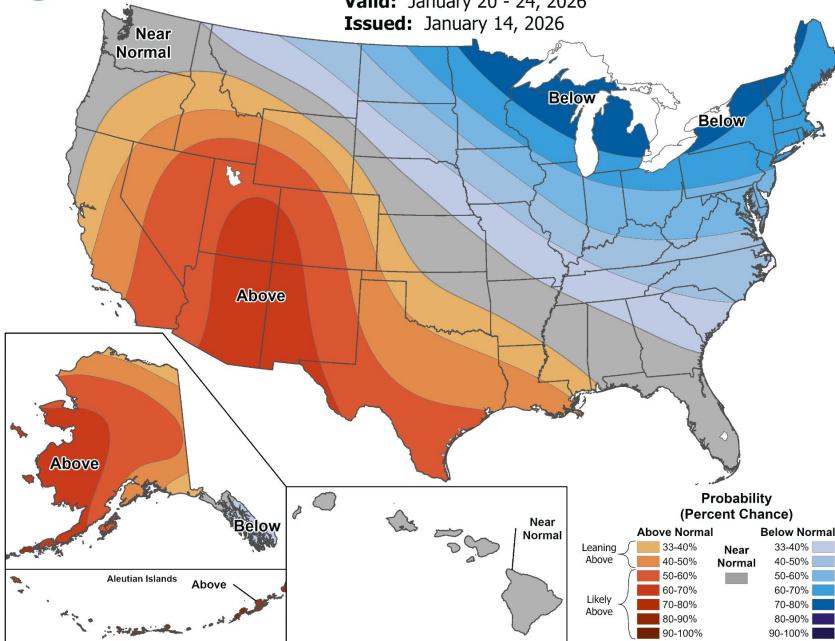
# 6-10 DAY TEMPERATURE OUTLOOK



## 6-10 Day Temperature Outlook

Valid: January 20 - 24, 2026

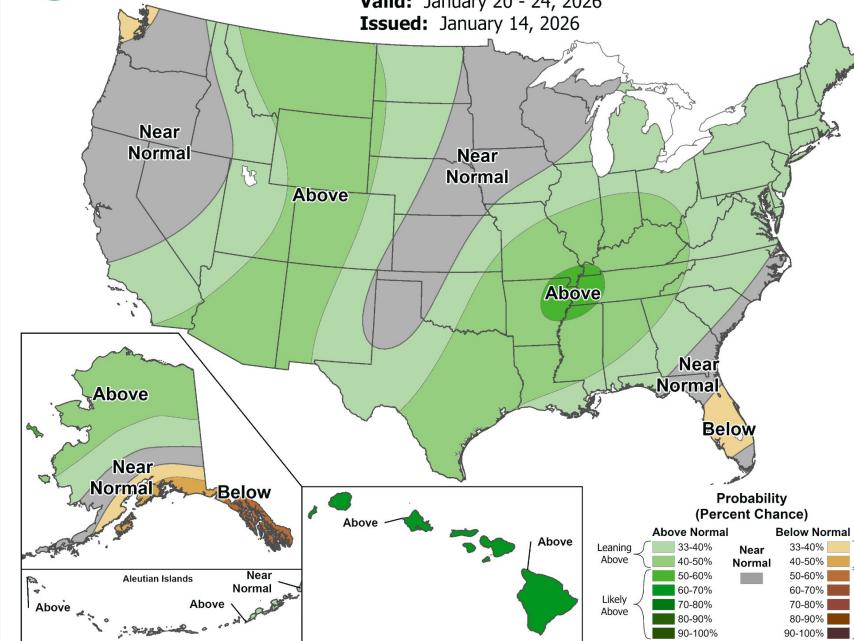
Issued: January 14, 2026



## 6-10 Day Precipitation Outlook

Valid: January 20 - 24, 2026

Issued: January 14, 2026

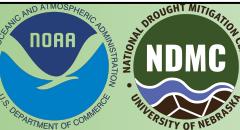


<https://www.cpc.ncep.noaa.gov/products/predictions/610day/>



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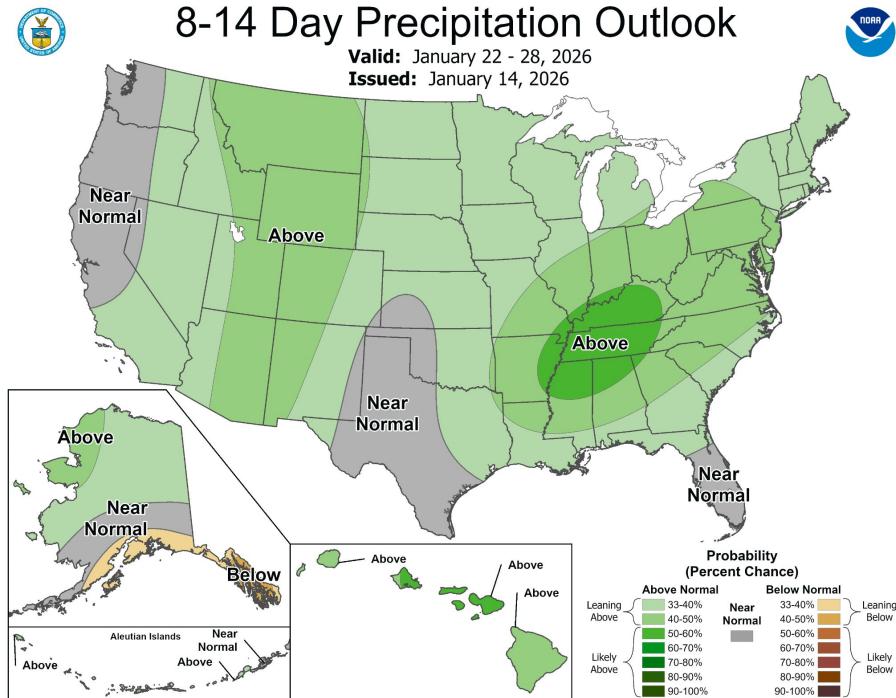
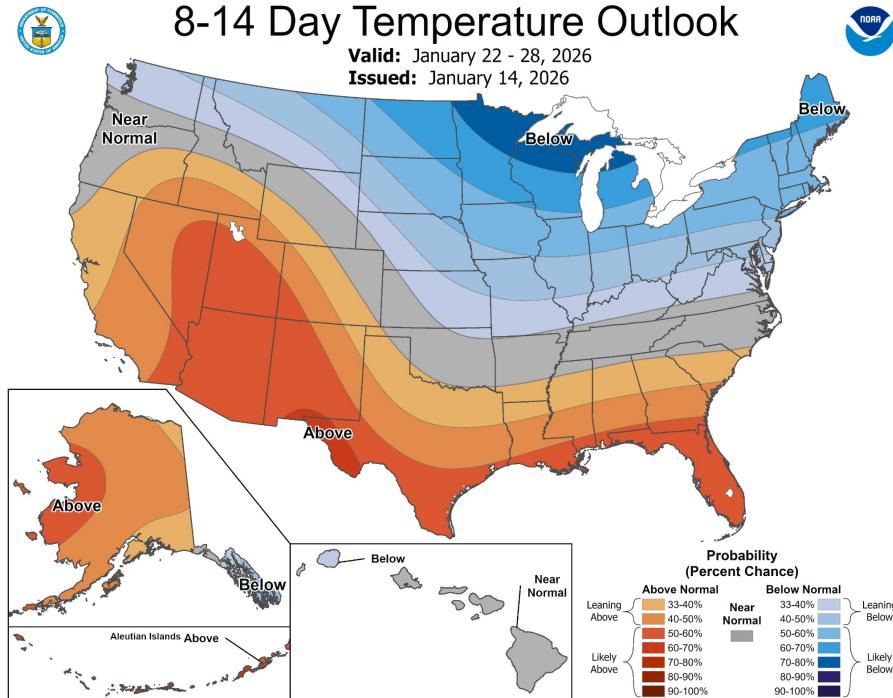
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## **8-14 DAY OUTLOOK**



<https://www.cpc.ncep.noaa.gov/products/predictions/814day/>



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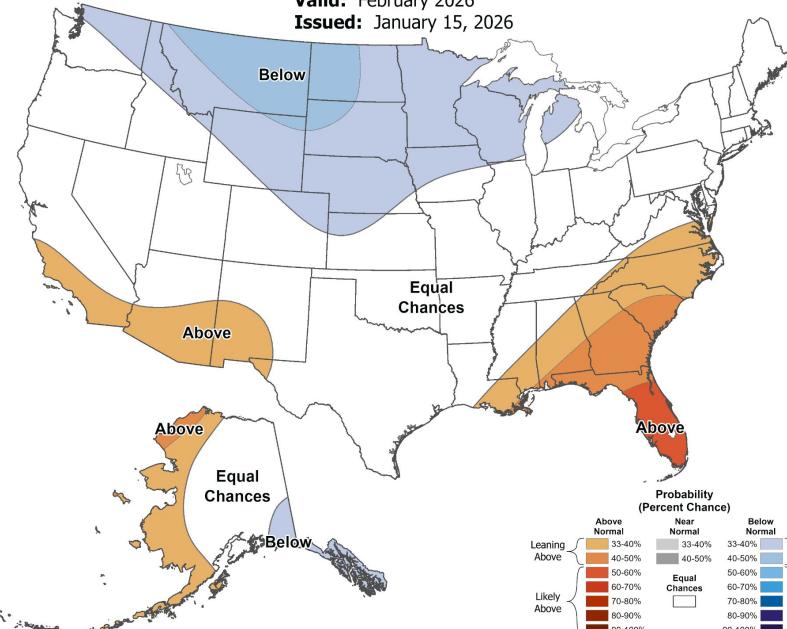
# 1 MONTH OUTLOOK



## Monthly Temperature Outlook

Valid: February 2026

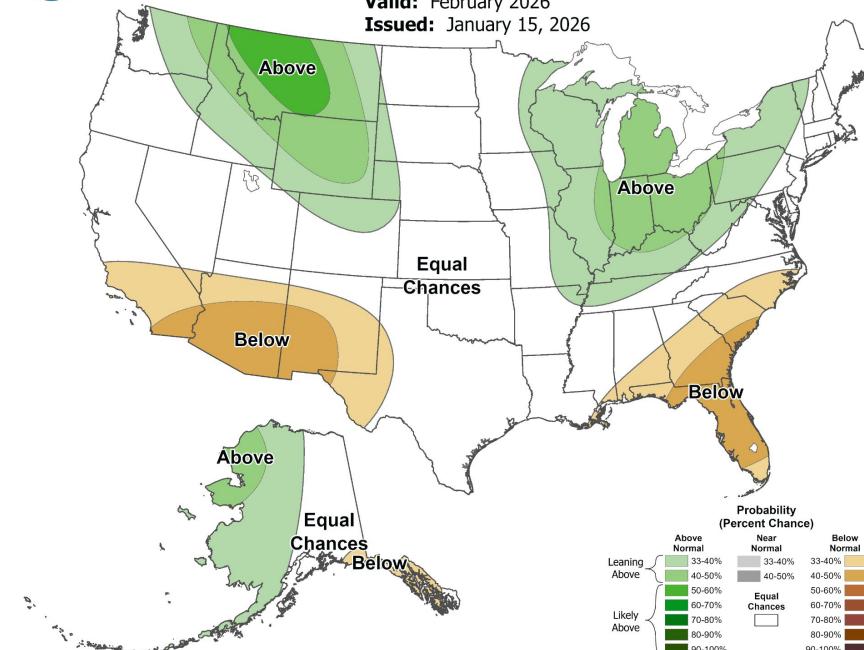
Issued: January 15, 2026



## Monthly Precipitation Outlook

Valid: February 2026

Issued: January 15, 2026

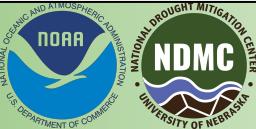


<https://www.cpc.ncep.noaa.gov/products/predictions/30day>



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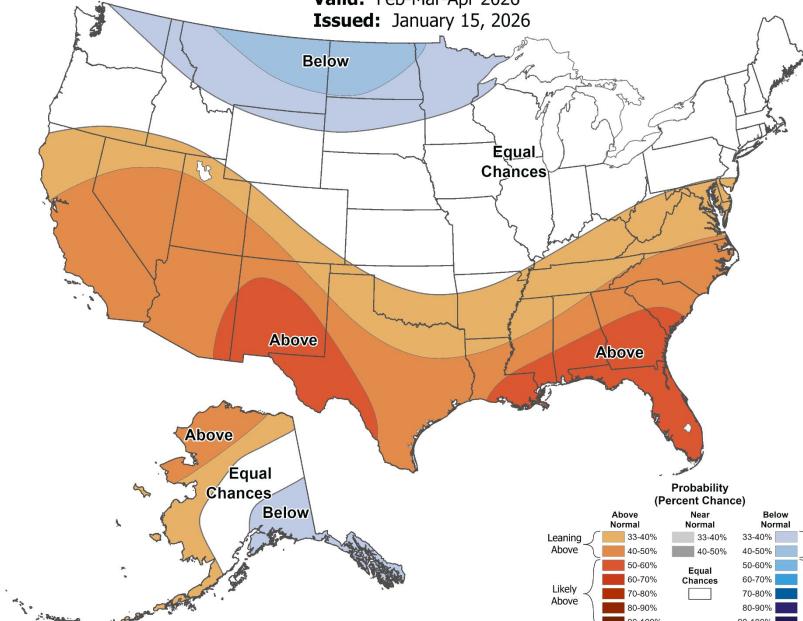
# 3 MONTH OUTLOOK



## Seasonal Temperature Outlook

Valid: Feb-Mar-Apr 2026

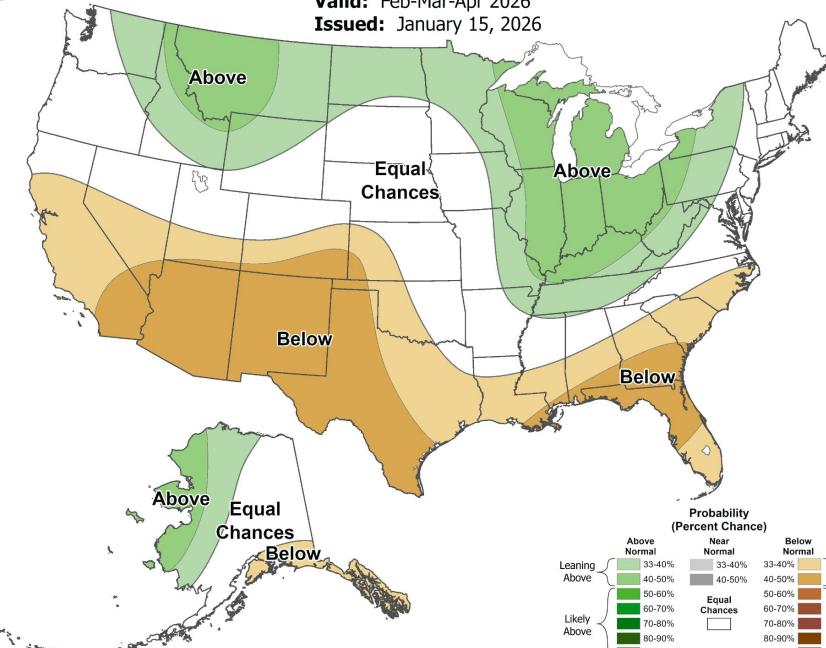
Issued: January 15, 2026



## Seasonal Precipitation Outlook

Valid: Feb-Mar-Apr 2026

Issued: January 15, 2026



[https://www.cpc.ncep.noaa.gov/products/predictions/long\\_range/seasonal.php?lead=1](https://www.cpc.ncep.noaa.gov/products/predictions/long_range/seasonal.php?lead=1)



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# El Niño/La Niña (ENSO) PROBABILITY

Official NOAA CPC ENSO Probabilities (issued January 2026)

based on  $-0.5^{\circ}/+0.5^{\circ}\text{C}$  thresholds in ERSSTv5 Niño-3.4 index

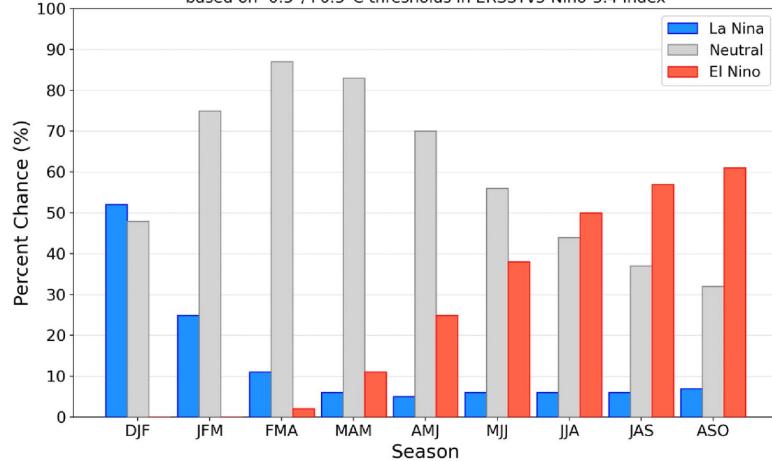
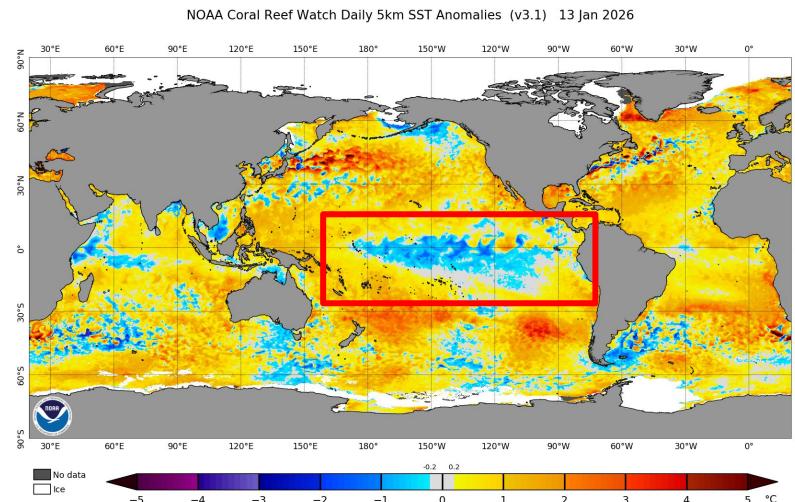


Figure 7. Official ENSO probabilities for the Niño 3.4 sea surface temperature index ( $5^{\circ}\text{N}$ - $5^{\circ}\text{S}$ ,  $120^{\circ}\text{W}$ - $170^{\circ}\text{W}$ ). Figure updated 8 January 2026.

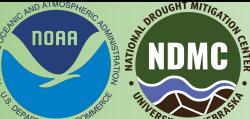


[https://www.cpc.ncep.noaa.gov/products/analysis\\_monitoring/enso\\_advisory/ensodisc.shtml](https://www.cpc.ncep.noaa.gov/products/analysis_monitoring/enso_advisory/ensodisc.shtml)



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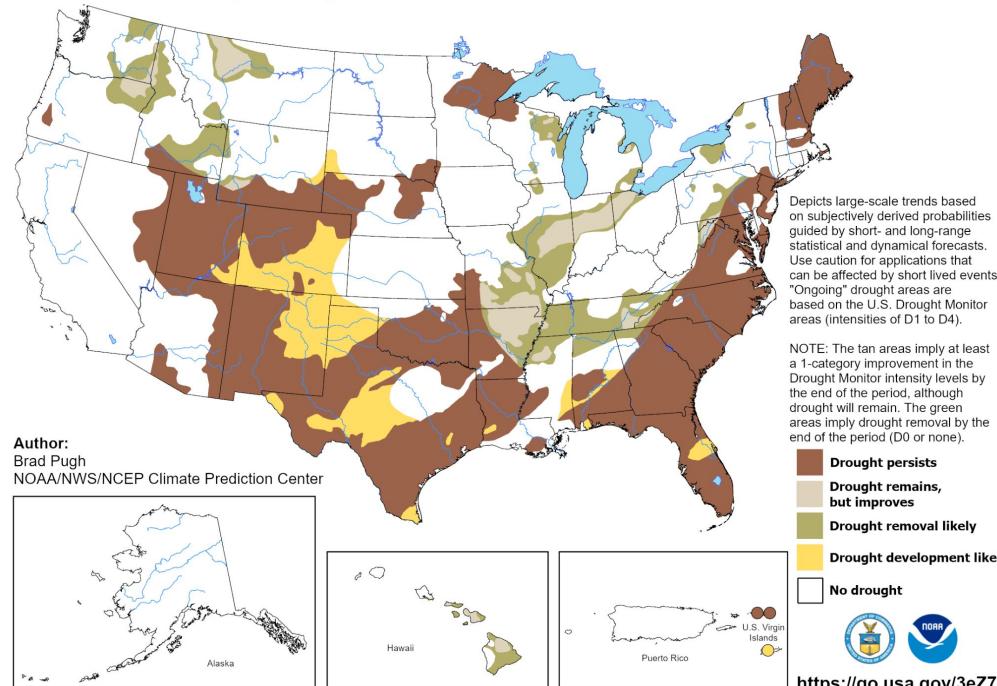
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# OUTLOOK: DROUGHT

## U.S. Seasonal Drought Outlook

### Drought Tendency During the Valid Period

Valid for January 15 - April 30, 2026  
Released January 15, 2026



[https://www.cpc.ncep.noaa.gov/products/expert\\_assessment/sdo\\_summary.php](https://www.cpc.ncep.noaa.gov/products/expert_assessment/sdo_summary.php)



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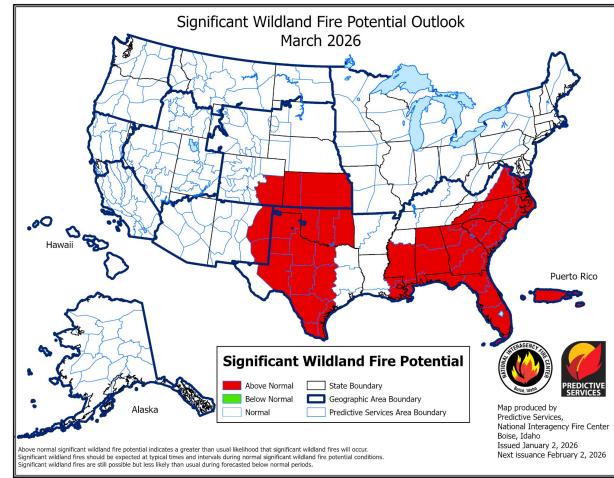
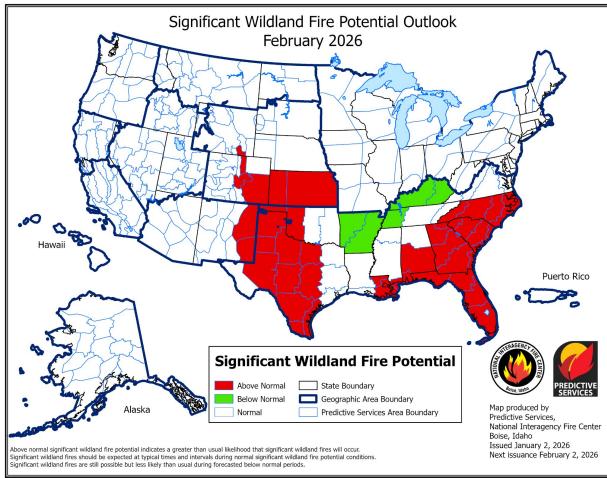
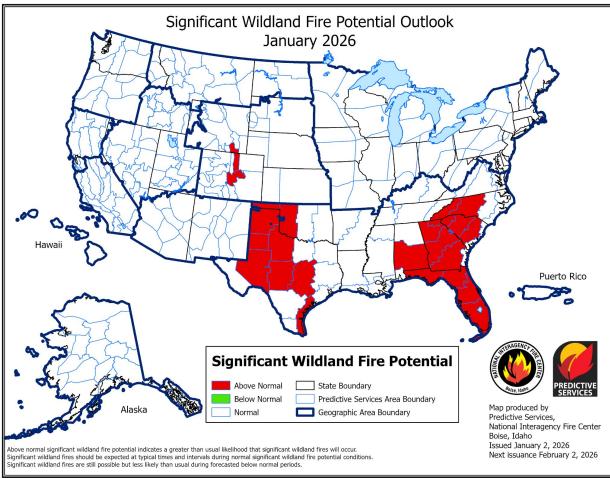
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# Significant Wildfire Potential Outlook



JANUARY



FEBRUARY



MARCH

<https://www.nifc.gov/nicc/predictive-services/outlooks>



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# SUMMARY

## - Recent Conditions

- **Temperature:** 2025 and early winter were **exceptionally warm**, record warmth across much of the West and Great Plains, above-normal temperatures regionwide.
- **Precipitation: Highly variable:** wetter in the Upper Missouri Basin, but record December dryness in parts of Nebraska, Kansas, Missouri, Arkansas, and Oklahoma.
- **Snow: Snowpack is highly elevation-dependent**, with near-normal mountain snow in Montana and Wyoming, pronounced snow drought in Colorado, emerging deficits in the Dakotas, and surpluses near the Great Lakes.
- **Streamflow:** Generally below normal across the middle and lower Missouri Basin, with frozen gauges limiting observations farther north.
- **Drought:** Mixed signals: short-term improvements in parts of the Midwest, but worsening drought across Nebraska, eastern Wyoming, northeast Colorado, Illinois and Indiana

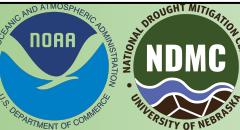
## - Outlooks

- **Short term:** Leaning wet and cool for northern portions of the domain, equal chances elsewhere
- **Long term:** Generally similar to short term outlooks
- **ENSO Forecast:** Weak La Niña is here, expected to transition to neutral by spring
- **Drought:** A mix of degradations and improvements are expected



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# Thank You!

# Questions?

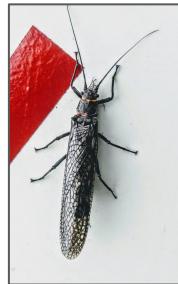


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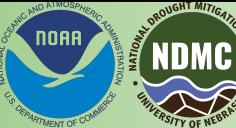
## RELEVANT CONTACTS

### Climate

- Zachary Hoylman – [zachary.hoylman@umontana.edu](mailto:zachary.hoylman@umontana.edu)
- Dennis Todey – [dennis.todey@usda.gov](mailto:dennis.todey@usda.gov)
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- Brian Fuchs – [bfuchs2@unl.edu](mailto:bfuchs2@unl.edu)



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