



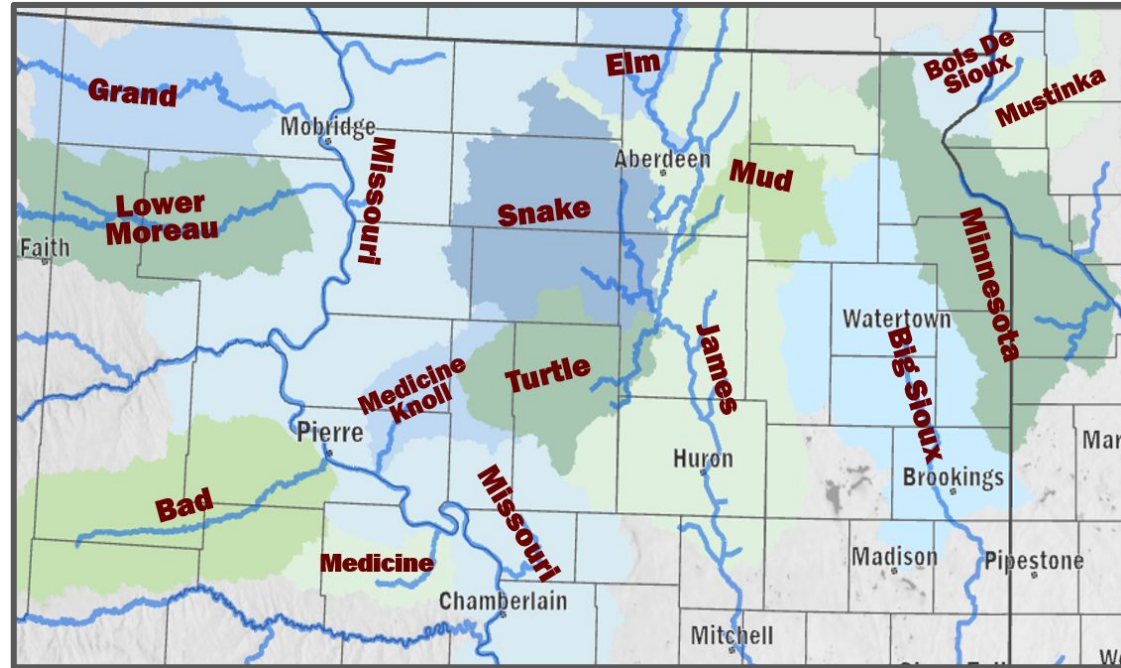
# Spring 2025 Flood Outlook

90 Day Outlook Valid through April

## Key Messages

- Below normal (< 50%) chance of flooding the next 90 days
- Flooding Risk would increase if the following were to occur:
  - ◆ Significant additional snowfall
  - ◆ A heavy rain event
  - ◆ Ice jams

Next Update: February 27





# 2025 Spring Flood Outlook (#1 of 3)

90 Day Outlook Valid through April

## Key Messages

- With a lack of significant liquid water in the snow cover that does exist across the area, along with ongoing drought conditions, the forecast currently points toward a **below normal flood risk** this spring.
- Additional heavy precipitation events or cold outbreaks through early spring could change the flood risk.

	Short Term (Next 14 Days)	Long Term (through April)
Snowpack/SWE	<b>Below</b>	<b>Below</b>
Frost Depth	<b>Above</b>	<b>Above</b>
River Ice	<b>Normal</b>	<b>Normal</b>
Soil Moisture	<b>Below</b>	<b>Below</b>
River Levels	<b>Normal</b>	<b>Normal</b>
Precipitation Outlook	<b>Below</b>	<b>Normal</b>

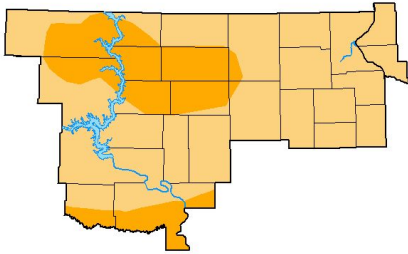
<b>Potential Impact</b> (On River Flooding)	<b>Below Normal</b>	<b>Normal</b>	<b>Above Normal</b>
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# Departure From Normal Precipitation/Temperatures

## U.S. Drought Monitor Aberdeen, SD WFO



February 11, 2025

(Released Thursday, Feb. 13, 2025)

Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	0.00	100.00	100.00	26.26	0.00	0.00
Last Week 02-04-2025	0.00	100.00	100.00	26.26	0.00	0.00
3 Months Ago 11-02-2024	0.00	100.00	100.00	32.41	0.00	0.00
Start of Calendar Year 01-01-2025	0.00	100.00	100.00	11.13	0.00	0.00
Start of Water Year 10-01-2024	28.86	71.14	6.68	0.00	0.00	0.00
One Year Ago 02-13-2024	92.39	7.61	0.00	0.00	0.00	0.00

Intensity:



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>

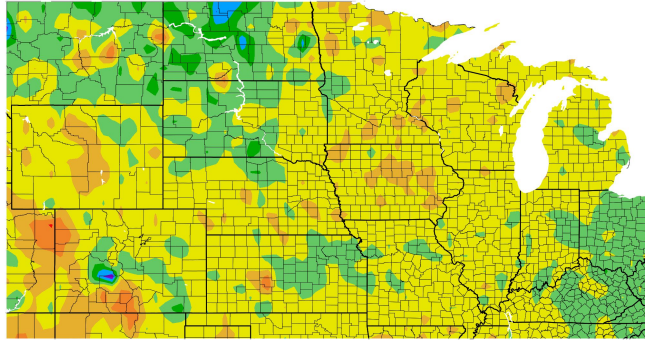
Author:

Lindsay Johnson  
National Drought Mitigation Center



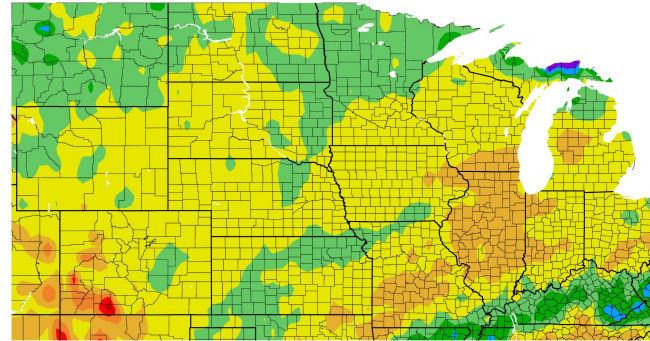
[droughtmonitor.unl.edu](http://droughtmonitor.unl.edu)

### 90 Day - Departure From Normal Temperatures



generated 2/13/2025 at HPRCC using provisional data. NOAA Regional Climate Centers

### 90 Day - Departure From Normal Precipitation



generated 2/13/2025 at HPRCC using provisional data. NOAA Regional Climate Centers

- Average precipitation and temperatures have trended near normal over the past few months.
- Looking at a longer period, however, the region is in moderate to severe drought conditions.



National Oceanic and Atmospheric Administration

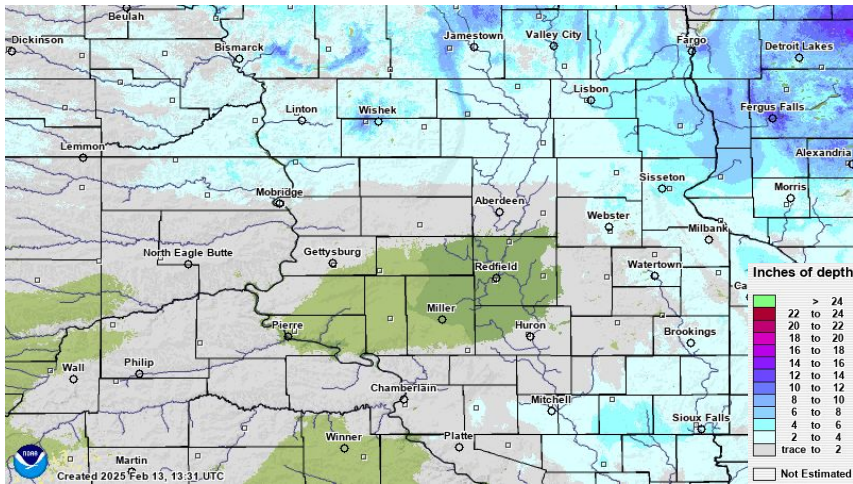
U.S. Department of Commerce

National Weather Service  
Aberdeen, SD

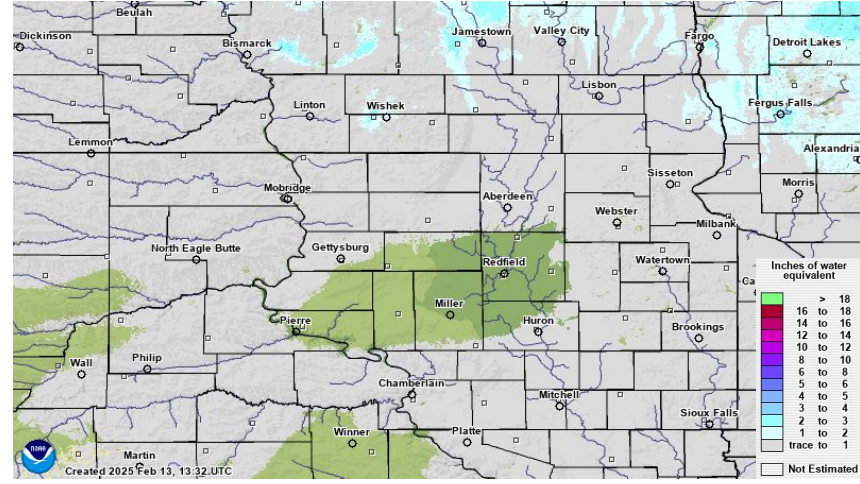


# Snow Depth and Snow Water Equivalent (SWE)

## Snow Depth



## Snow Water Equivalent



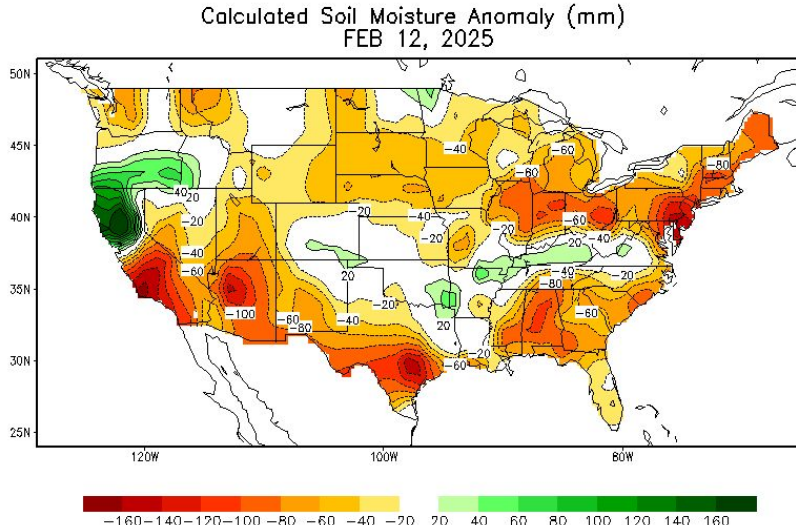
- Current snow depth ranges from no snow pack from the area south of a line from Onida to Warner and north of a line from Pierre to Miller to Doland, to generally less than 2 inches along the North Dakota border. One exception is an area of 4 to 8 inches across far northeastern South Dakota and west central Minnesota.
- The liquid water content in the snow pack is generally a trace to one inch.
- Snow depth and snow water equivalent are below average.



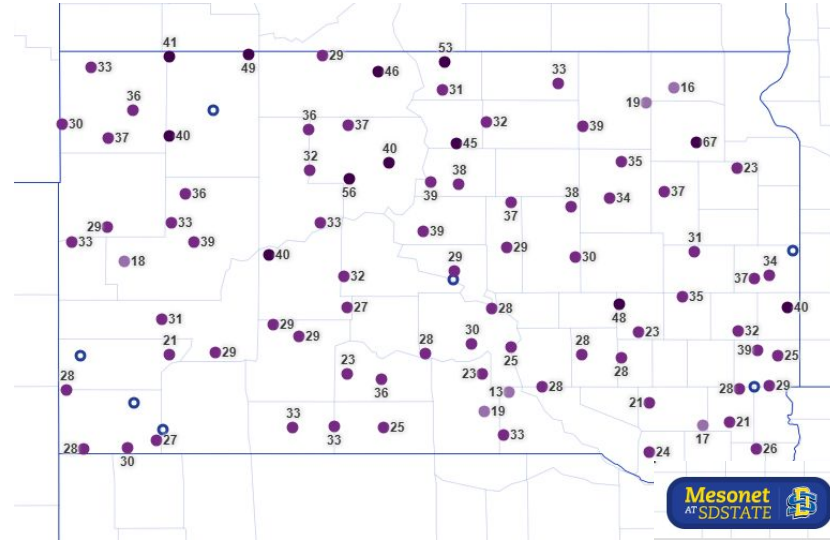


# Soil Moisture and Temperatures/Frost Depth

## Soil Moisture Anomaly



## Frost Depth



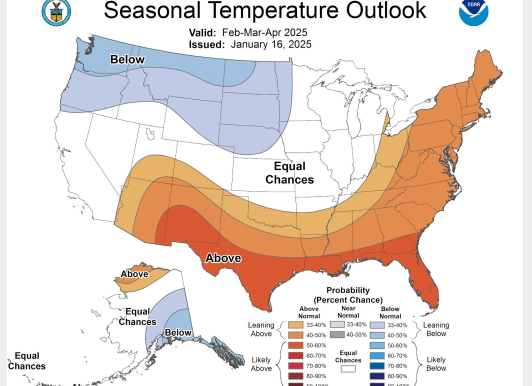
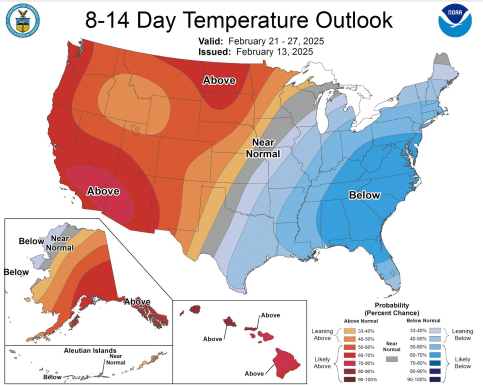
- Soil moisture is below normal across the entire area.
- The entire region is in Moderate to Severe drought conditions.
- Frost depths are deeper than normal, ranging in the 2 to 4 foot range. A deeper frost depth could mean slower absorption of any snow melt or rain, which could factor into flooding if either were to occur in a rapid fashion.





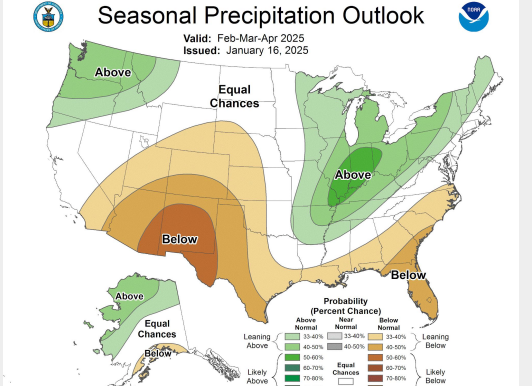
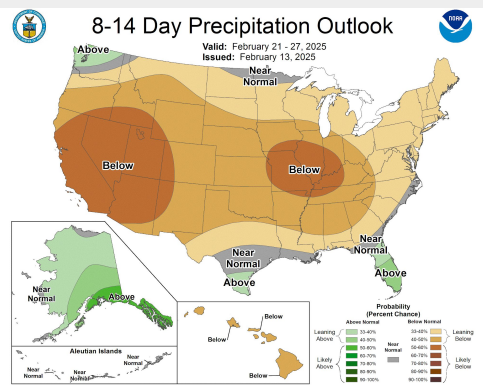
# Precipitation and Temperature Outlook

Temperature



→ The 8-14 day outlook from February 21-27 is for increased chances for above normal temperatures and below normal precipitation.

Precipitation



→ The 90 day outlook for February through April indicates increased chances for below normal temperatures and equal chances for below, near or above normal precipitation.



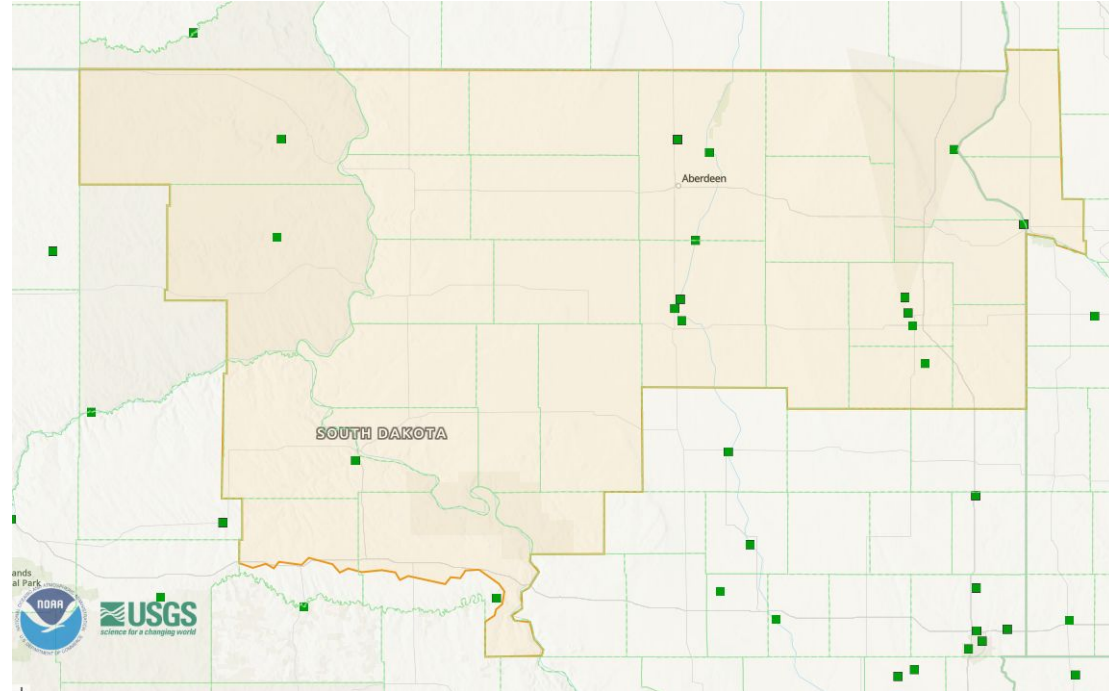
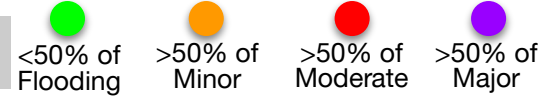


# Flood Chances

90 Day Outlook Valid through April

- Current conditions across the area point toward a low spring flood threat as the most likely scenario.
- A less than 50% chance of reaching flood stage exists at all of the river forecast points in the area.

## Most Likely Flood Potential (50% Chance)





# Flood Outlook Summary

90 Day Outlook Valid through April

## Key Messages

- The **spring river flood risk is below normal** for the next 90 days across the immediate region.
- Future significant precipitation events could change the flood risk going into early spring. Frost depths are deeper than normal, which could mean slower absorption of any snow melt or rain, which could factor into flooding if either were to occur in a rapid fashion.
- River ice will continue to carry a low-end ice jam risk.
- The next update will be February 27, 2025.

River	90 Day Flood Risk
Missouri	BELOW NORMAL
Grand	BELOW NORMAL
Moreau	BELOW NORMAL
Bad	BELOW NORMAL
Elm	BELOW NORMAL
James	BELOW NORMAL
Big Sioux	BELOW NORMAL
Minnesota	BELOW NORMAL







# Flood and Outlook Resources

National Weather Service - Aberdeen  
[weather.gov/abr](https://www.weather.gov/abr)

Advanced Hydrologic Prediction Service Page  
<https://water.noaa.gov/wfo/abr>

Snow Depth/SWE Information (NOHRSC)  
[nohrsc.noaa.gov/interactive/html/map.html](https://nohrsc.noaa.gov/interactive/html/map.html)

Climate Prediction Center Outlooks  
[cpc.ncep.noaa.gov/](https://cpc.ncep.noaa.gov/)

USGS WaterWatch  
[waterwatch.usgs.gov/](https://waterwatch.usgs.gov/)

Flood Safety Information  
[weather.gov/safety/flood](https://www.weather.gov/safety/flood)

Additional Flood Outlook Info: <https://water.noaa.gov/wfo/abr>

