

# **North Dakota Bi-Weekly Drought Update**

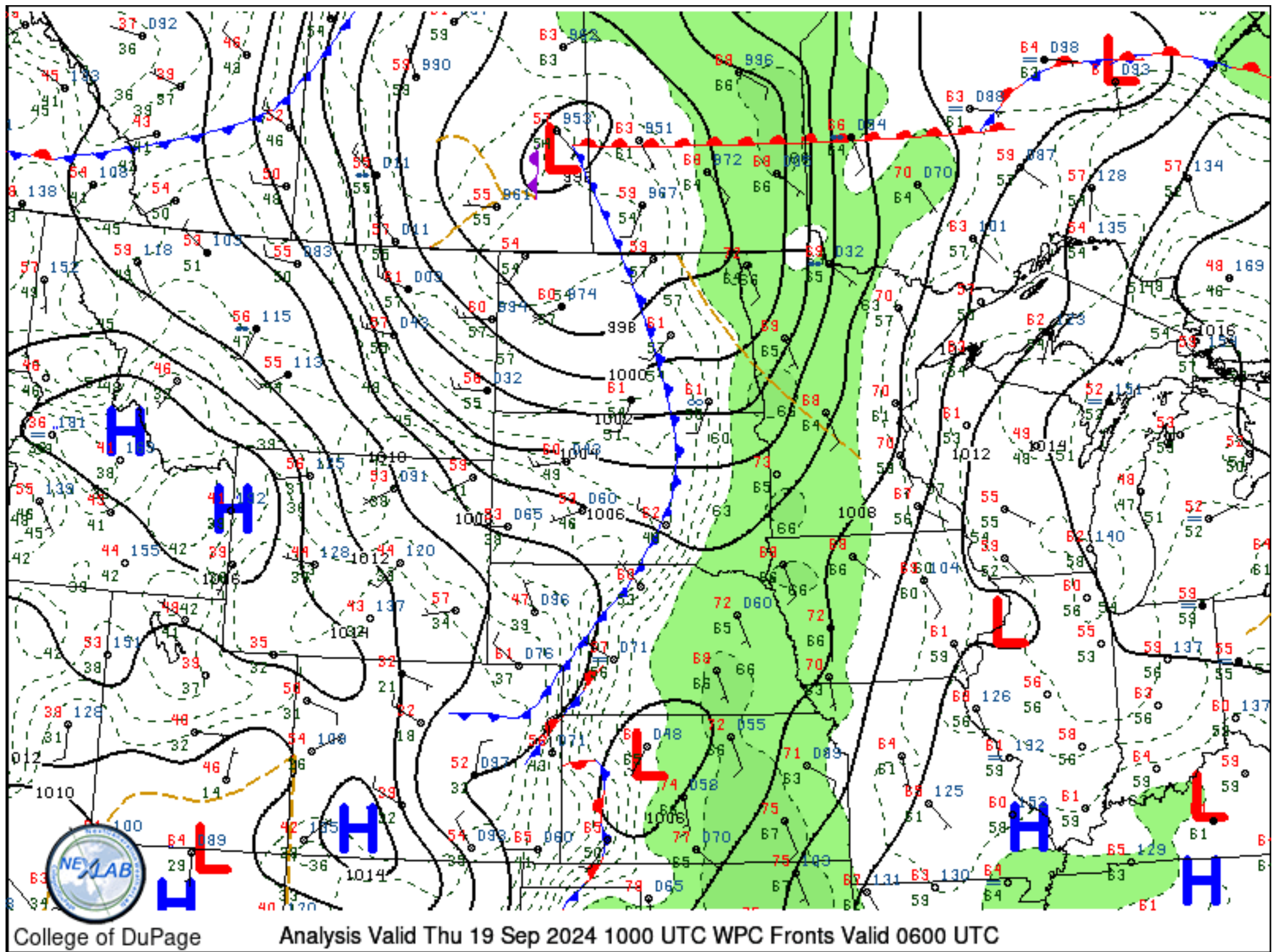
Daryl Ritchison, September 19, 2024

NorthEast



NDAWN Hirschville

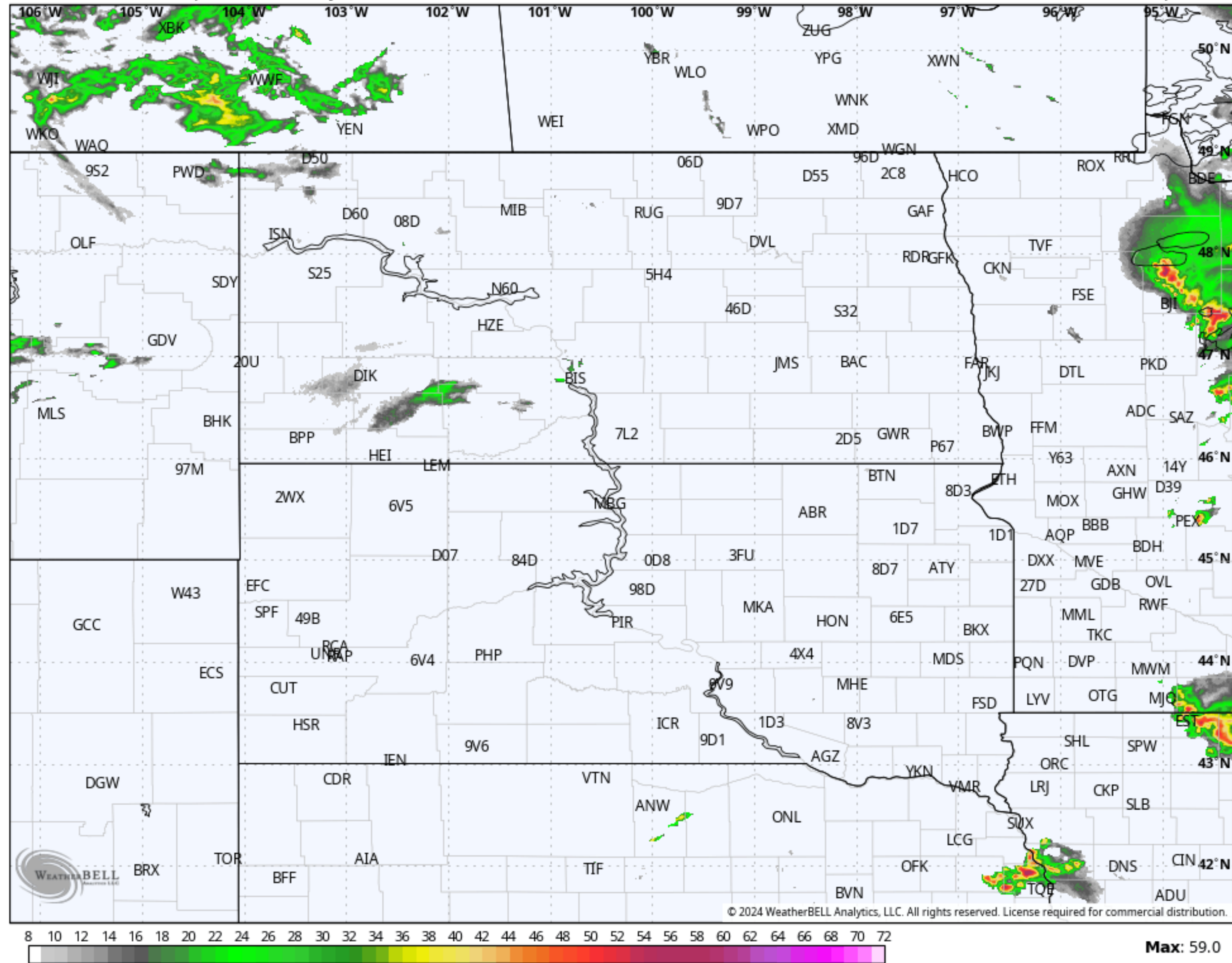
09/16/2024 09:21:33 PM



# National Surface Map

MRMS 1 km • Composite Reflectivity (dBZ)

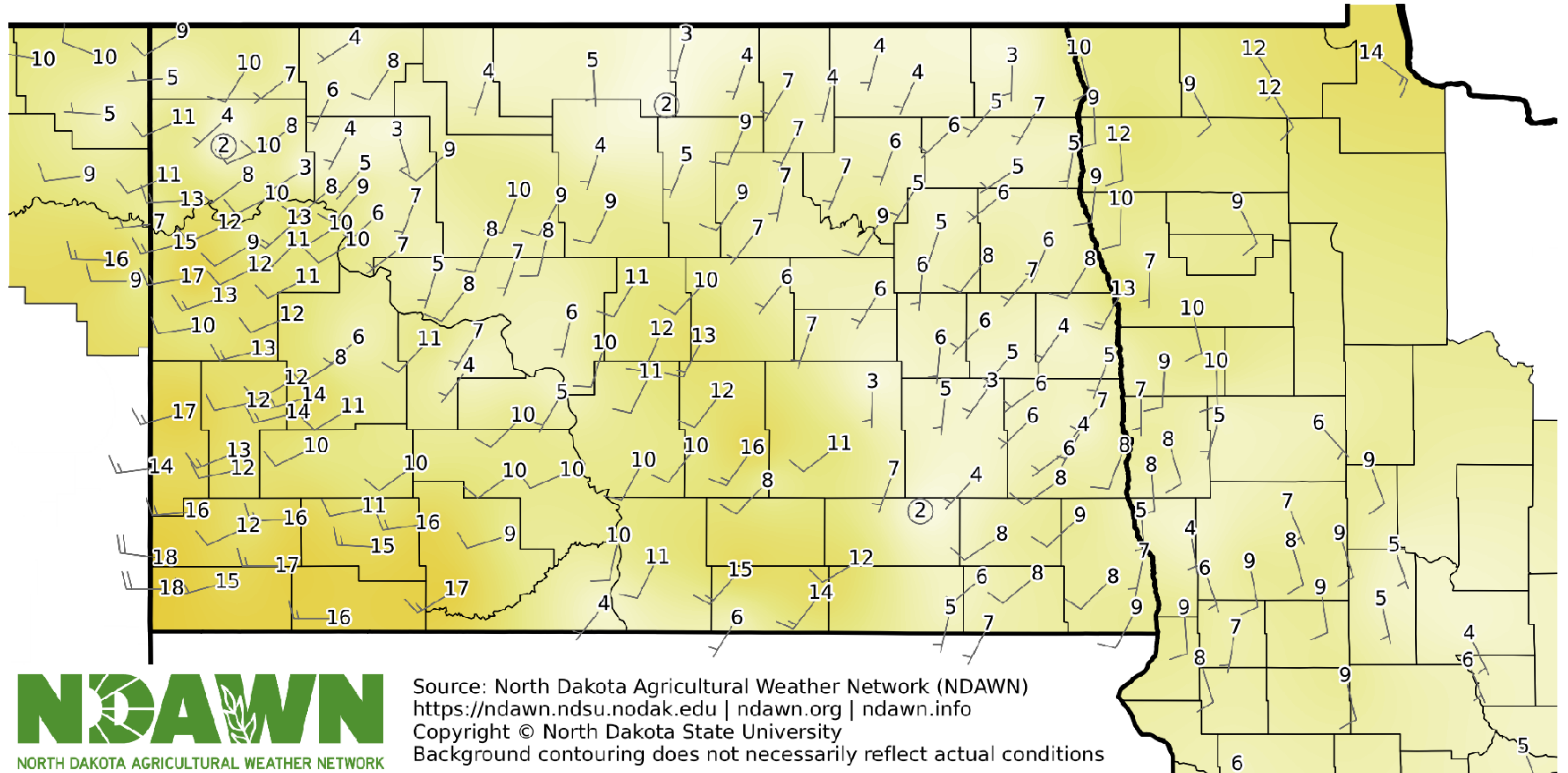
Valid: 0738z Thu 19 Sep 2024



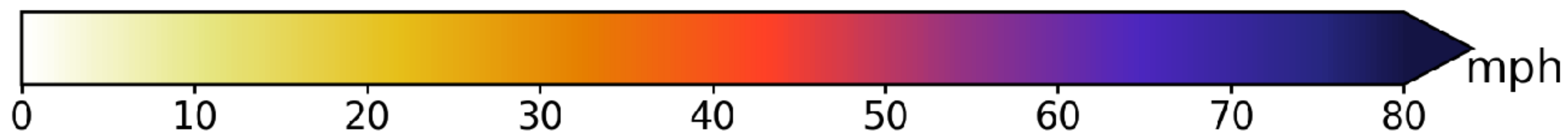
# Radar This Morning

# Wind Speed & Direction @ 10ft (mph)

Sep 19 2024 06:11 AM

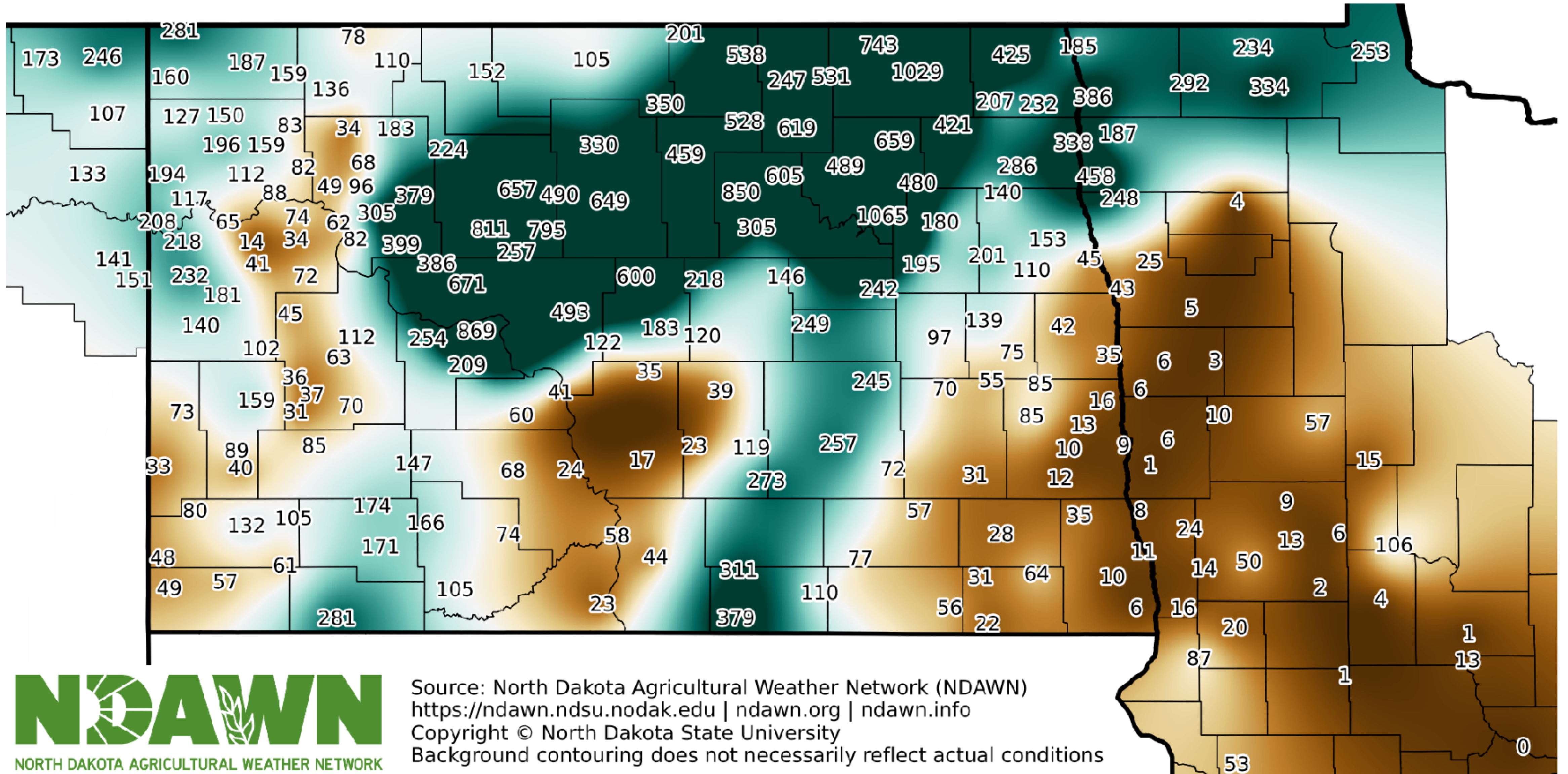


Source: North Dakota Agricultural Weather Network (NDAWN)  
<https://ndawn.ndsu.nodak.edu> | [ndawn.org](http://ndawn.org) | [ndawn.info](http://ndawn.info)  
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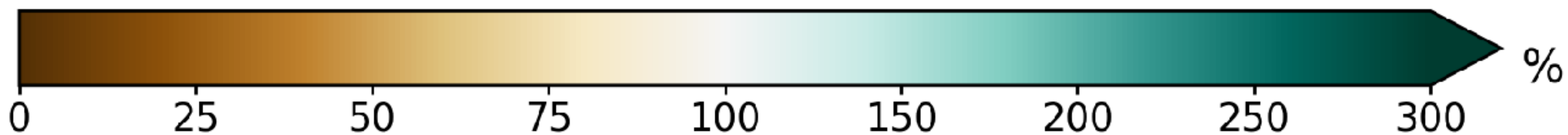


# Percent of Normal Precipitation - Past 7 Days (%)

Sep 18 2024

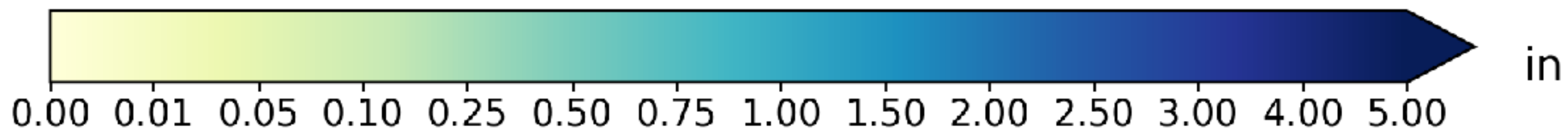
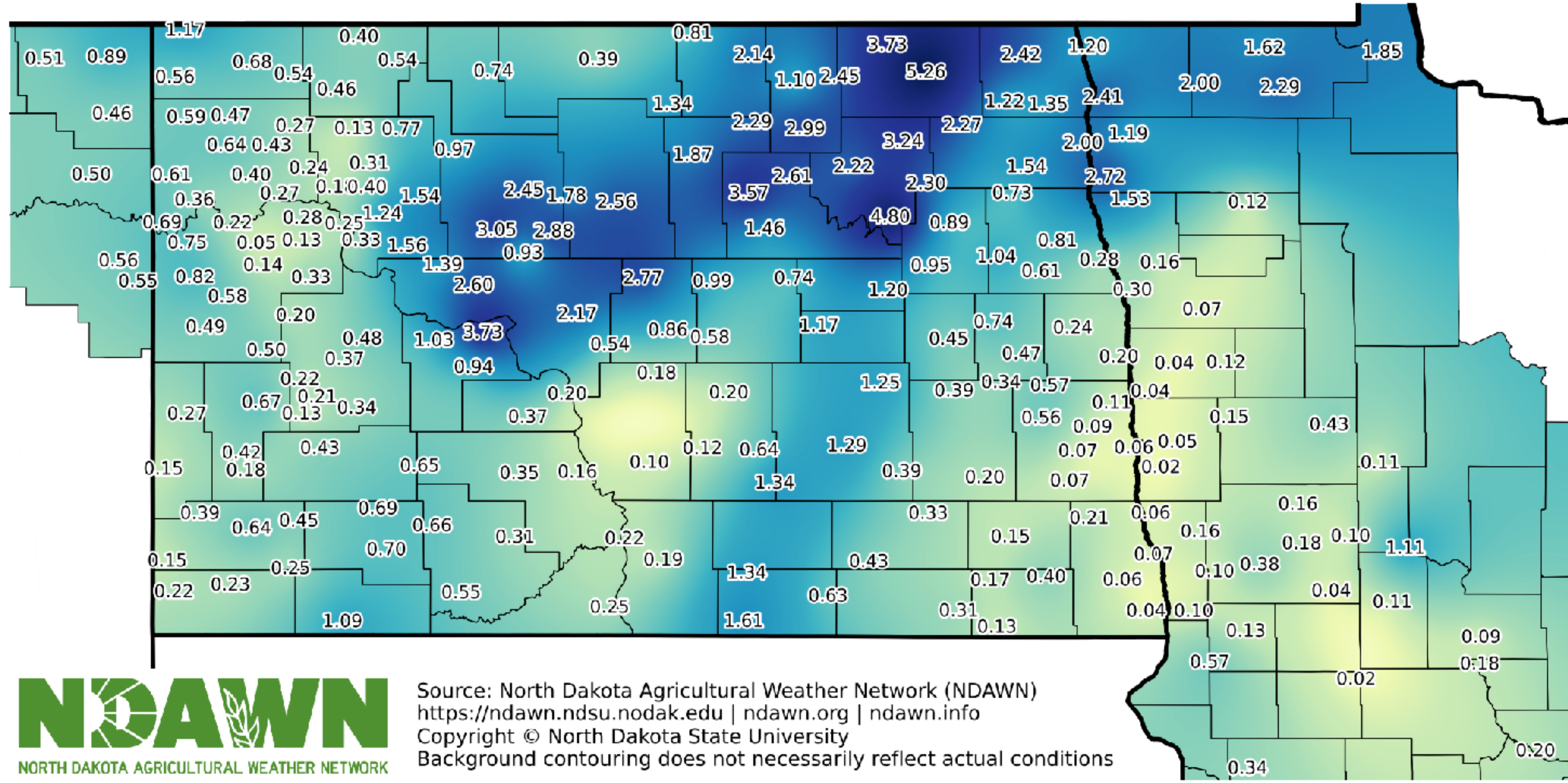


Source: North Dakota Agricultural Weather Network (NDAWN)  
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# Total Precipitation - Past 14 Days

Sep 18 2024



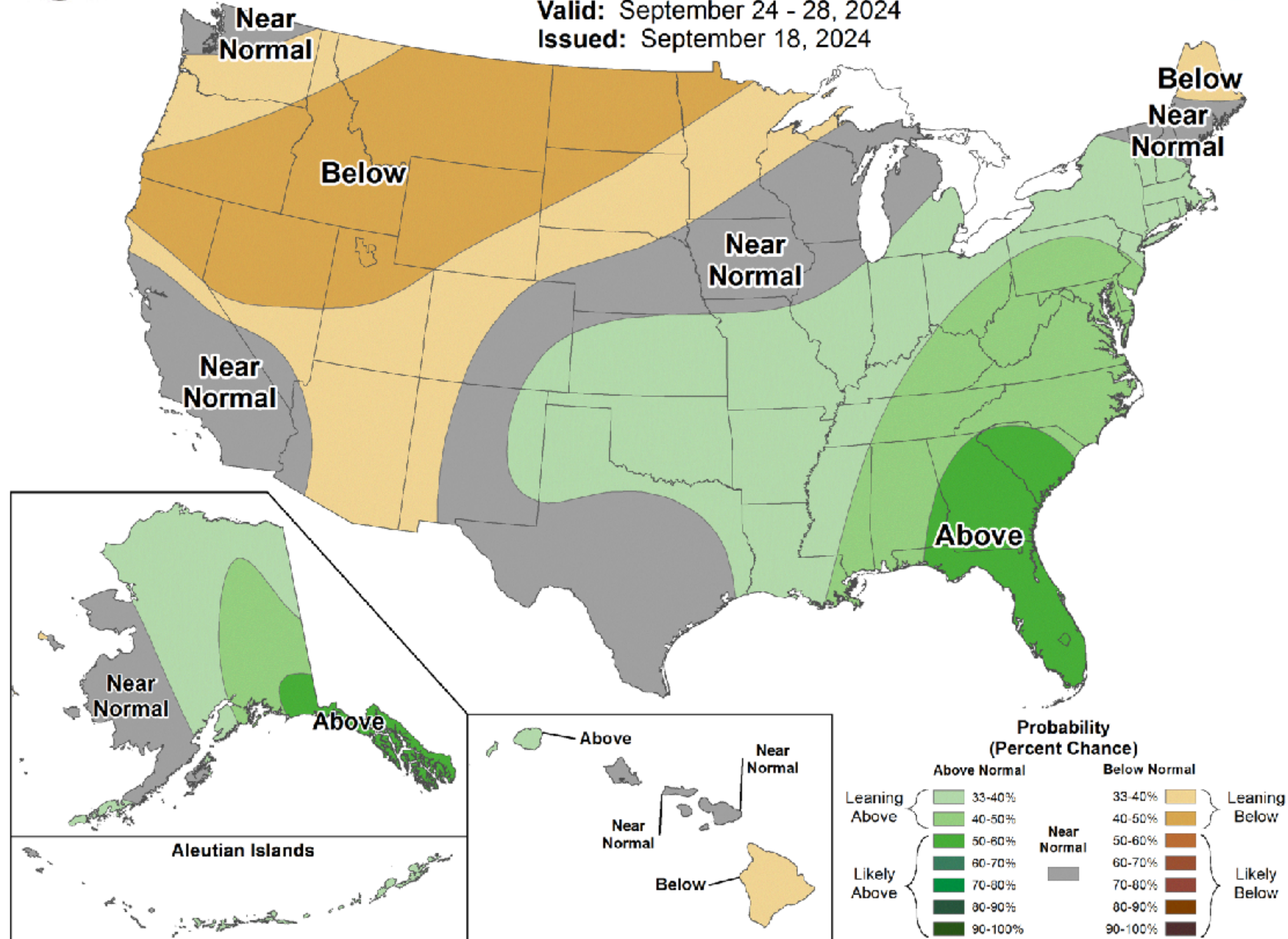
# Two-Week Rain Totals



# 6-10 Day Precipitation Outlook

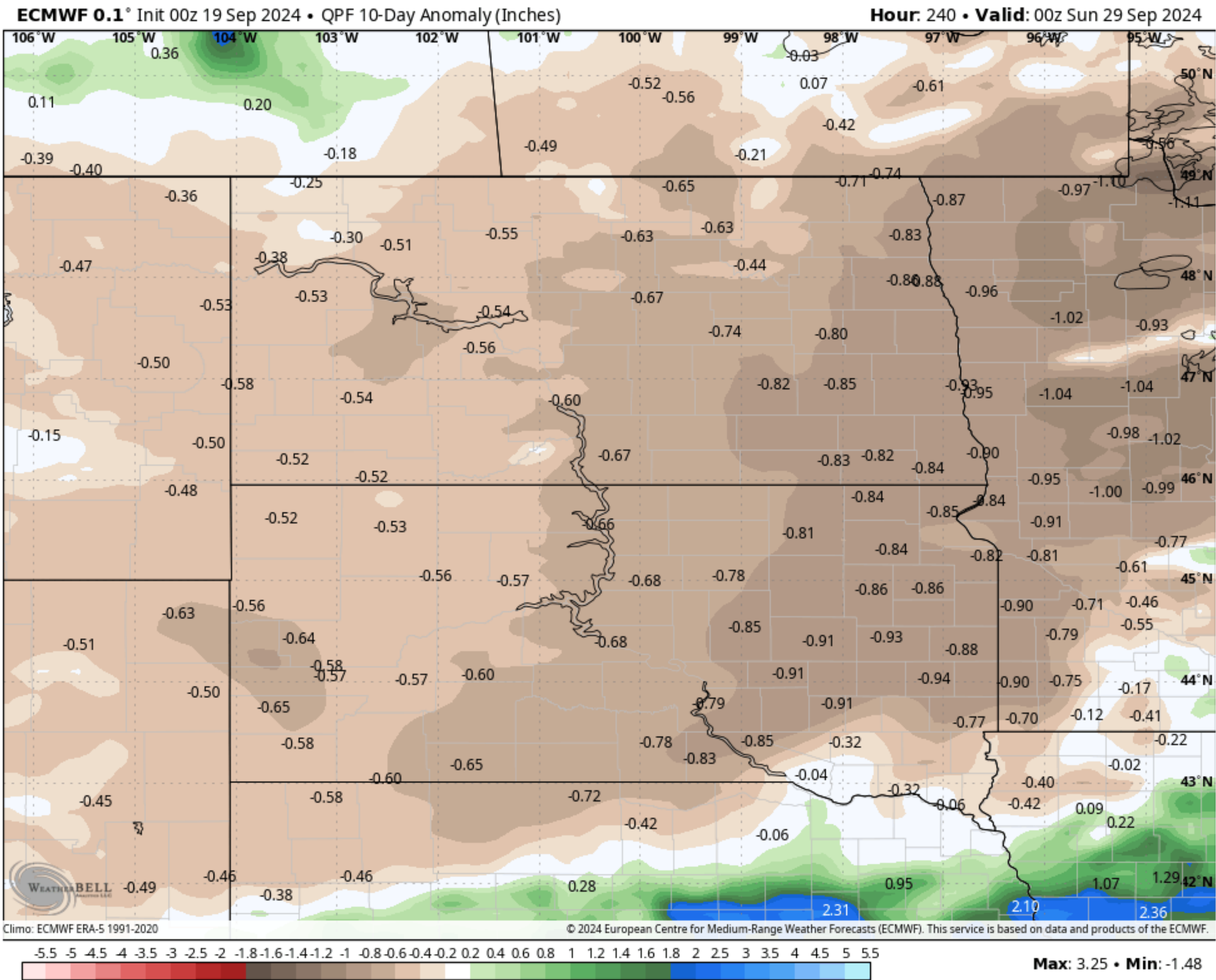


Valid: September 24 - 28, 2024  
Issued: September 18, 2024



## 6-10 Day Outlook





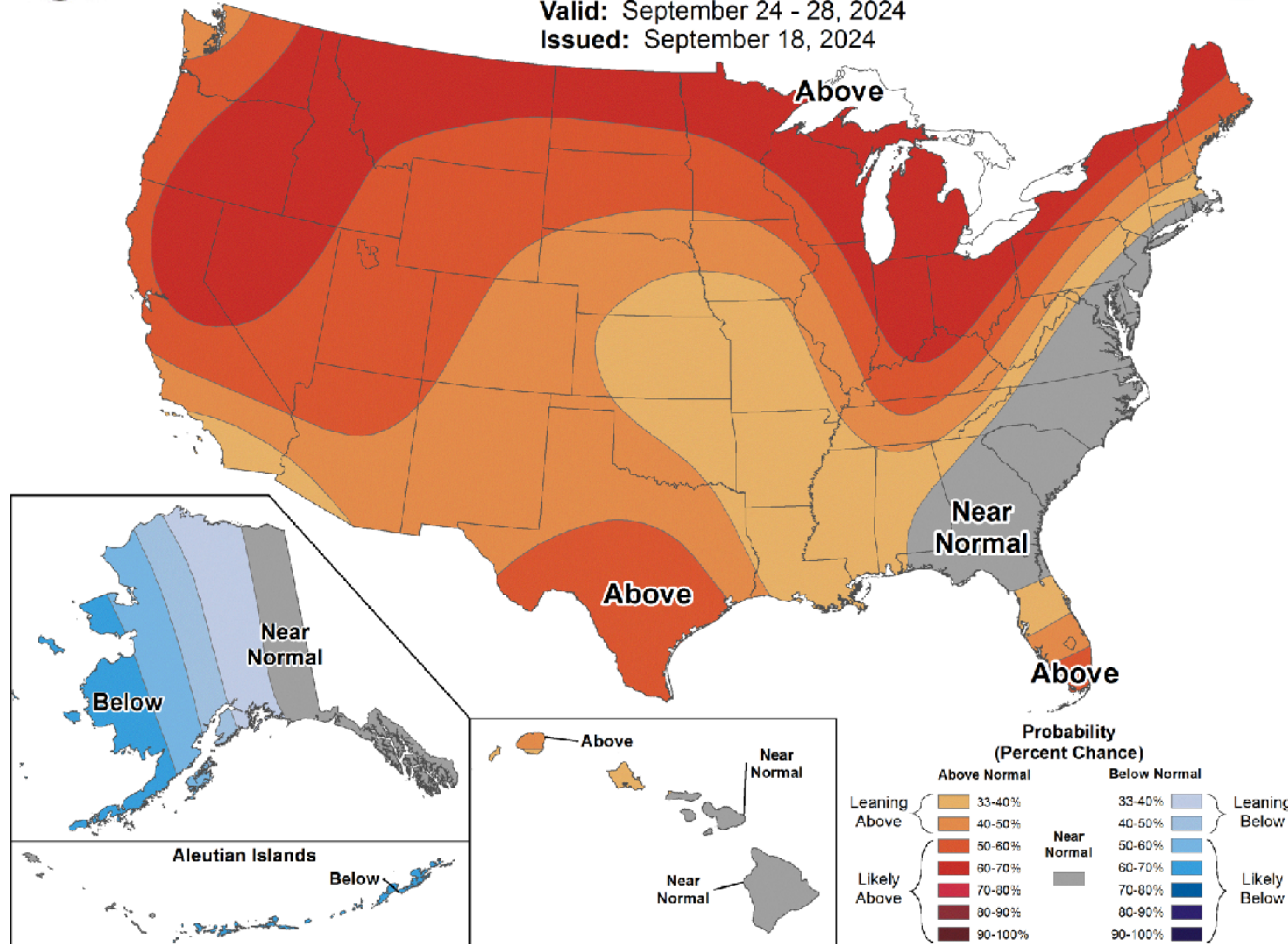
# 10 Day Precipitation Anomaly from ECMWF



# 6-10 Day Temperature Outlook



Valid: September 24 - 28, 2024  
Issued: September 18, 2024



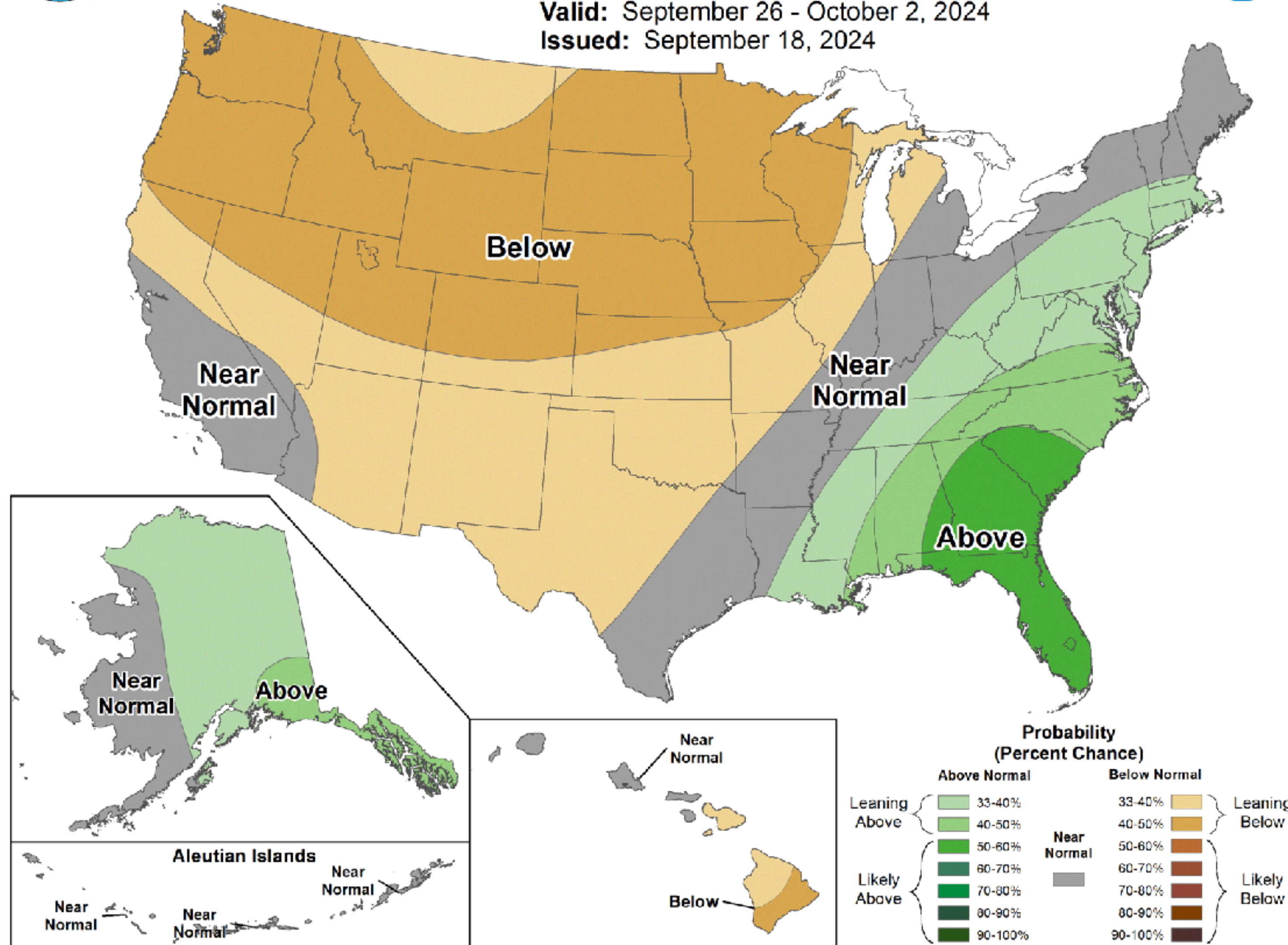
## 6-10 Day Outlook



# 8-14 Day Precipitation Outlook



Valid: September 26 - October 2, 2024  
Issued: September 18, 2024



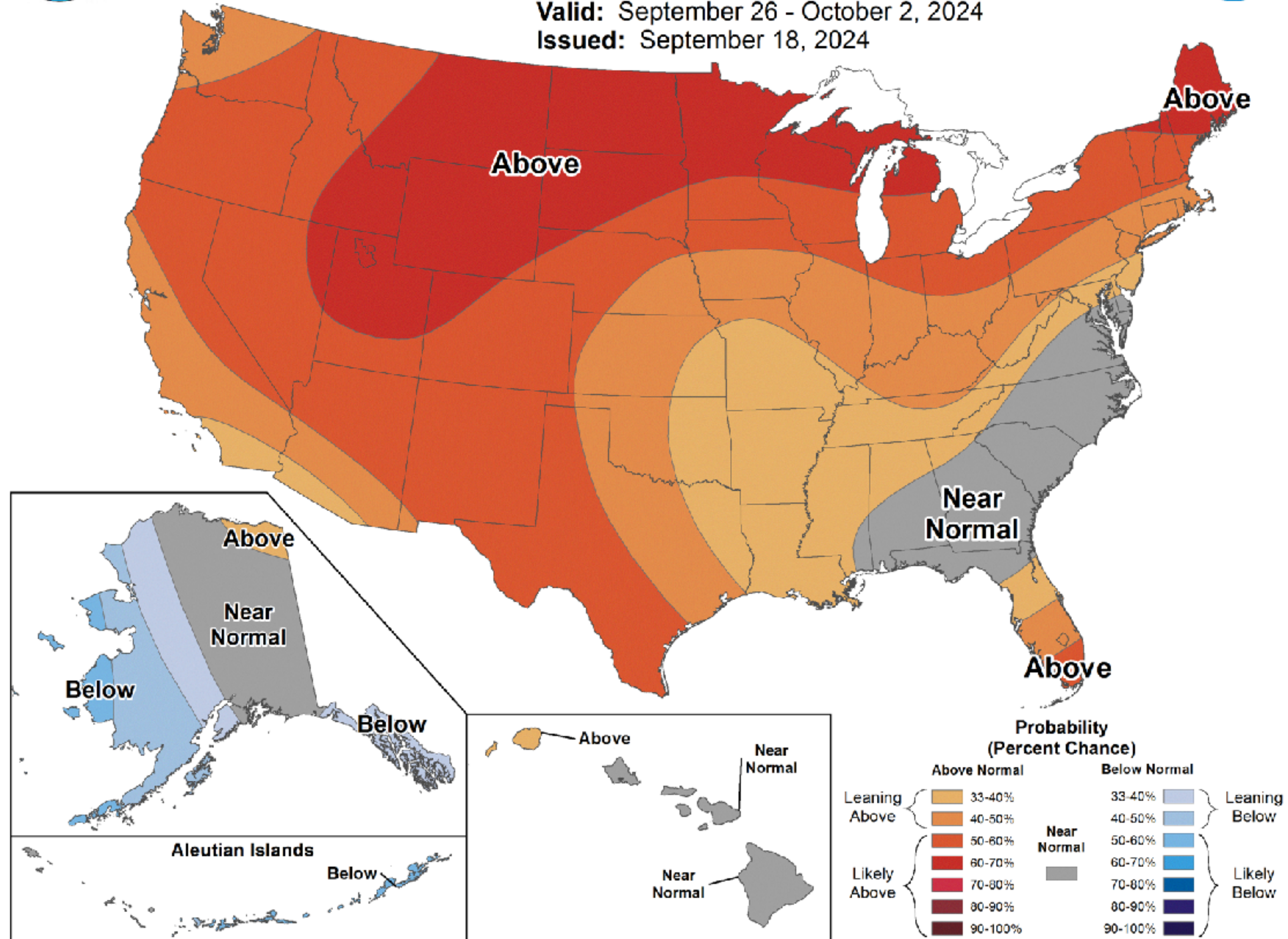
## 8-14 Day Outlook



# 8-14 Day Temperature Outlook



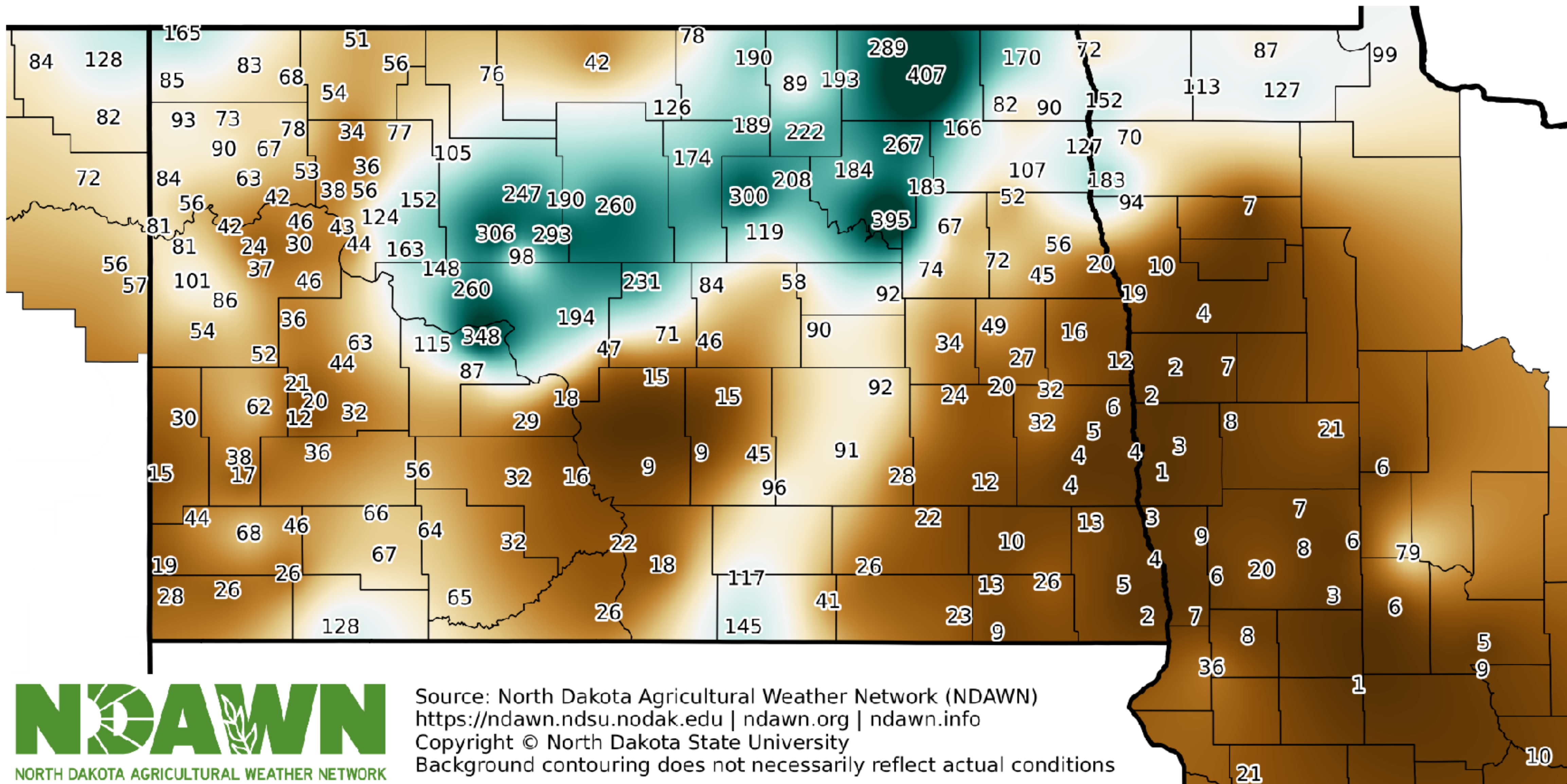
Valid: September 26 - October 2, 2024  
Issued: September 18, 2024



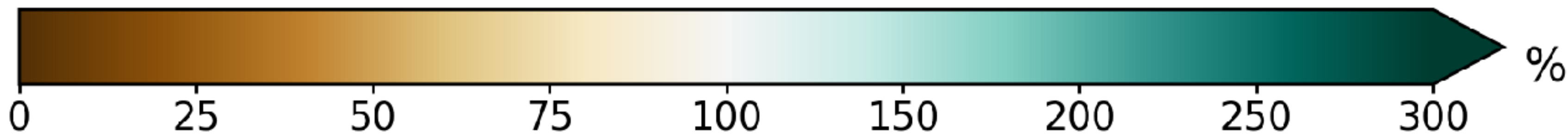
## 8-14 Day Outlook

# Percent of Normal Precipitation - Current Month (%)

Sep 18 2024

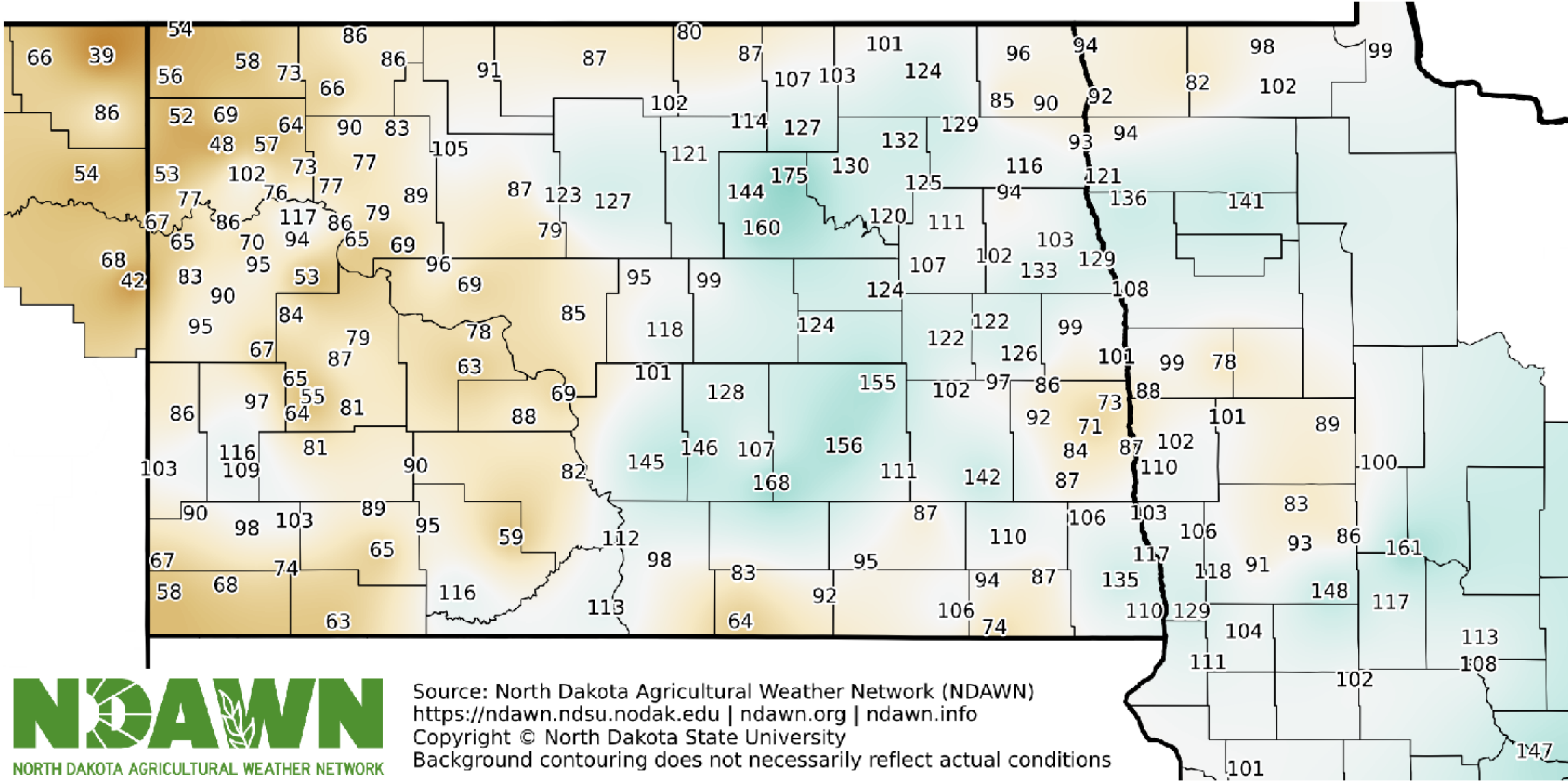


Source: North Dakota Agricultural Weather Network (NDAWN)  
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Percent of Normal Precipitation (%)

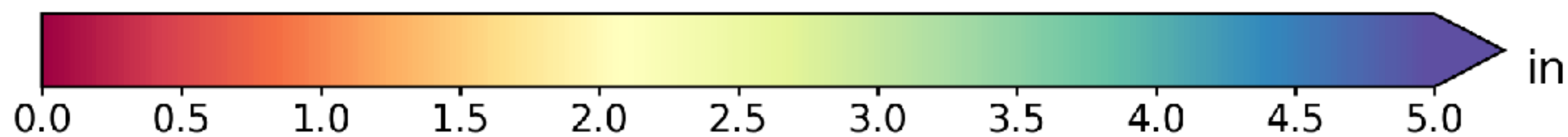
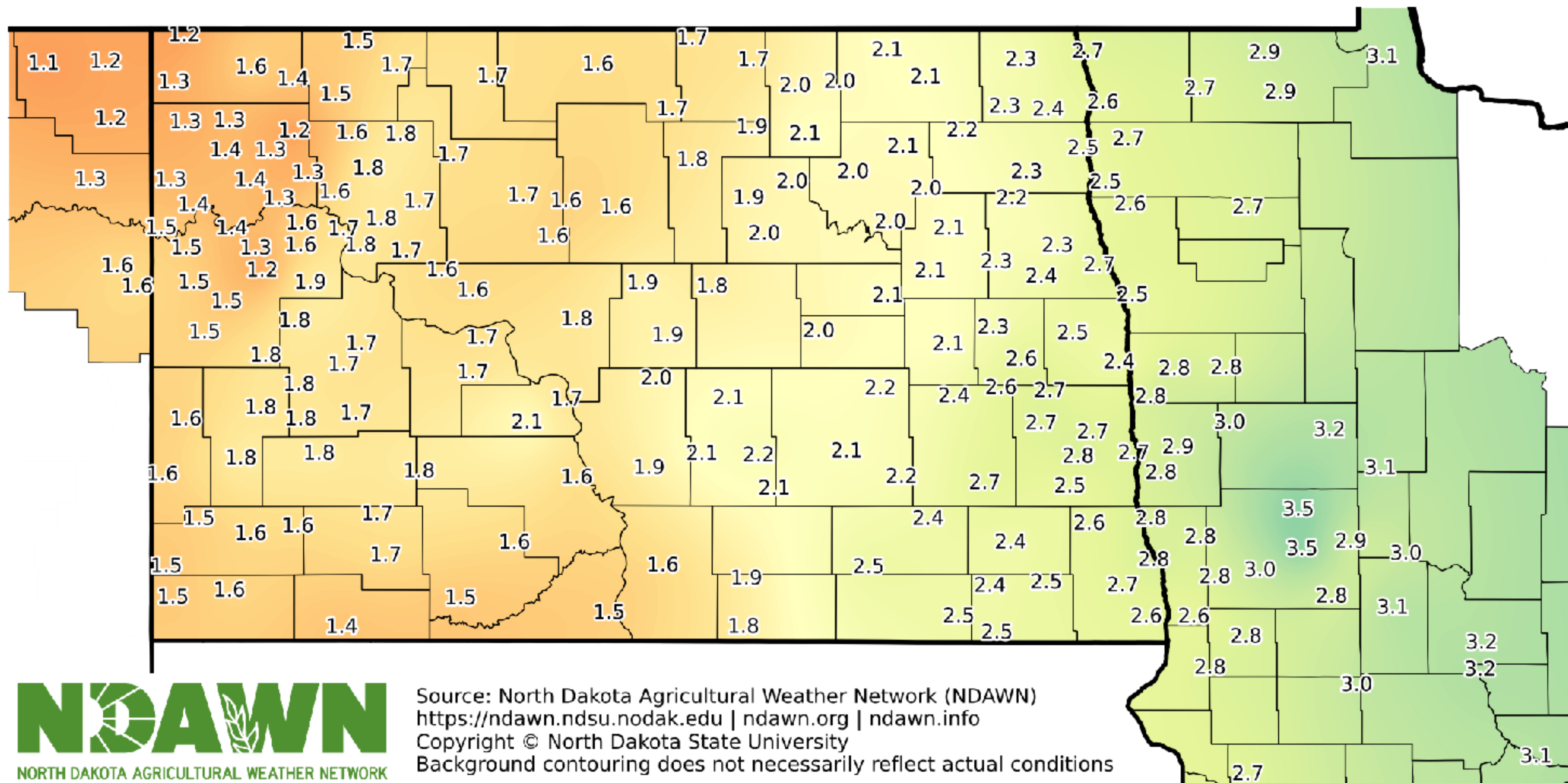
06-01-2024 - 08-31-2024



# Percent of Average Rain Summer 2024

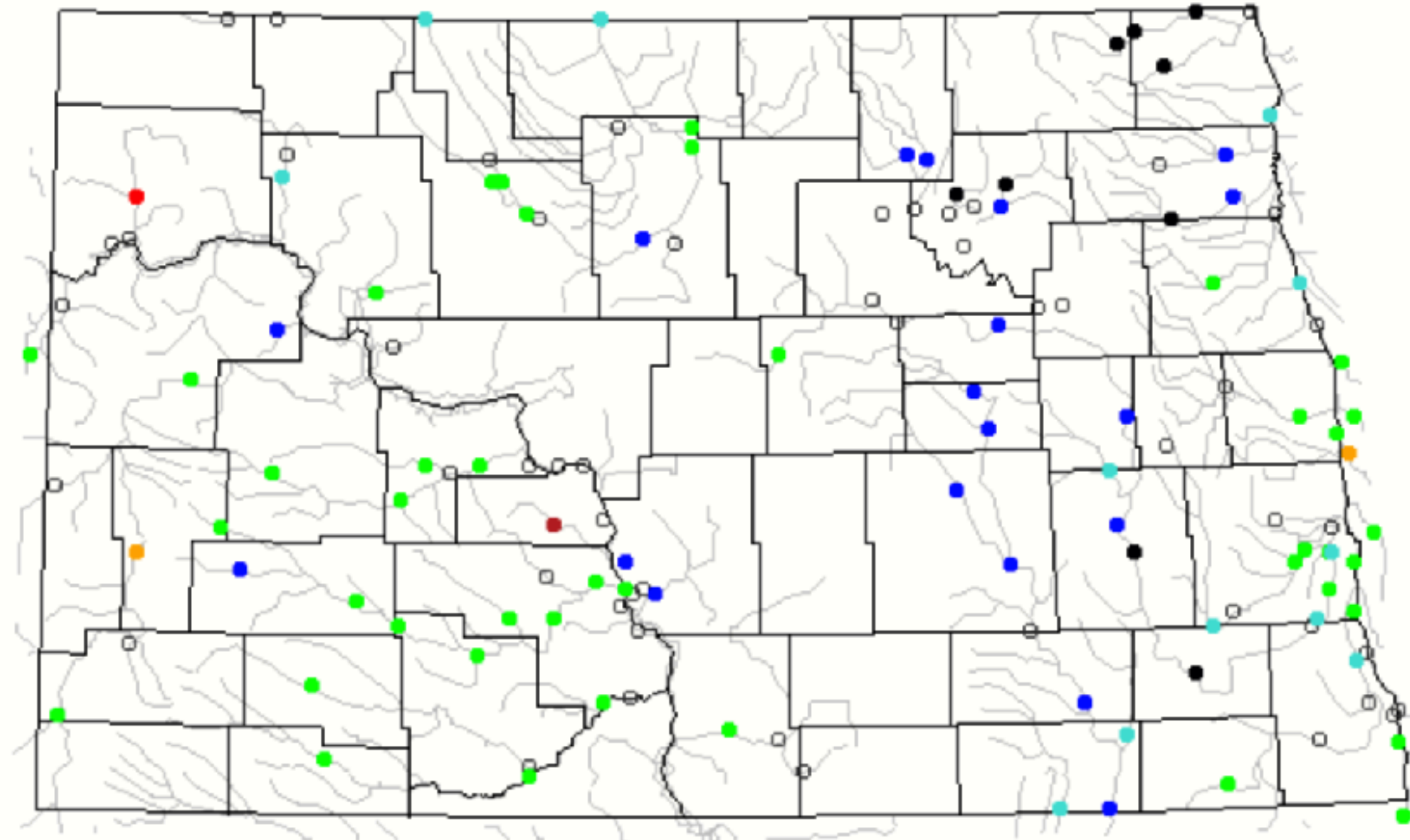
# September Total Precipitation (in)

1991-2020 Climate Normals



# September Average Rainfall

Thursday, September 19, 2024 06:30ET



Search USGS streamgage



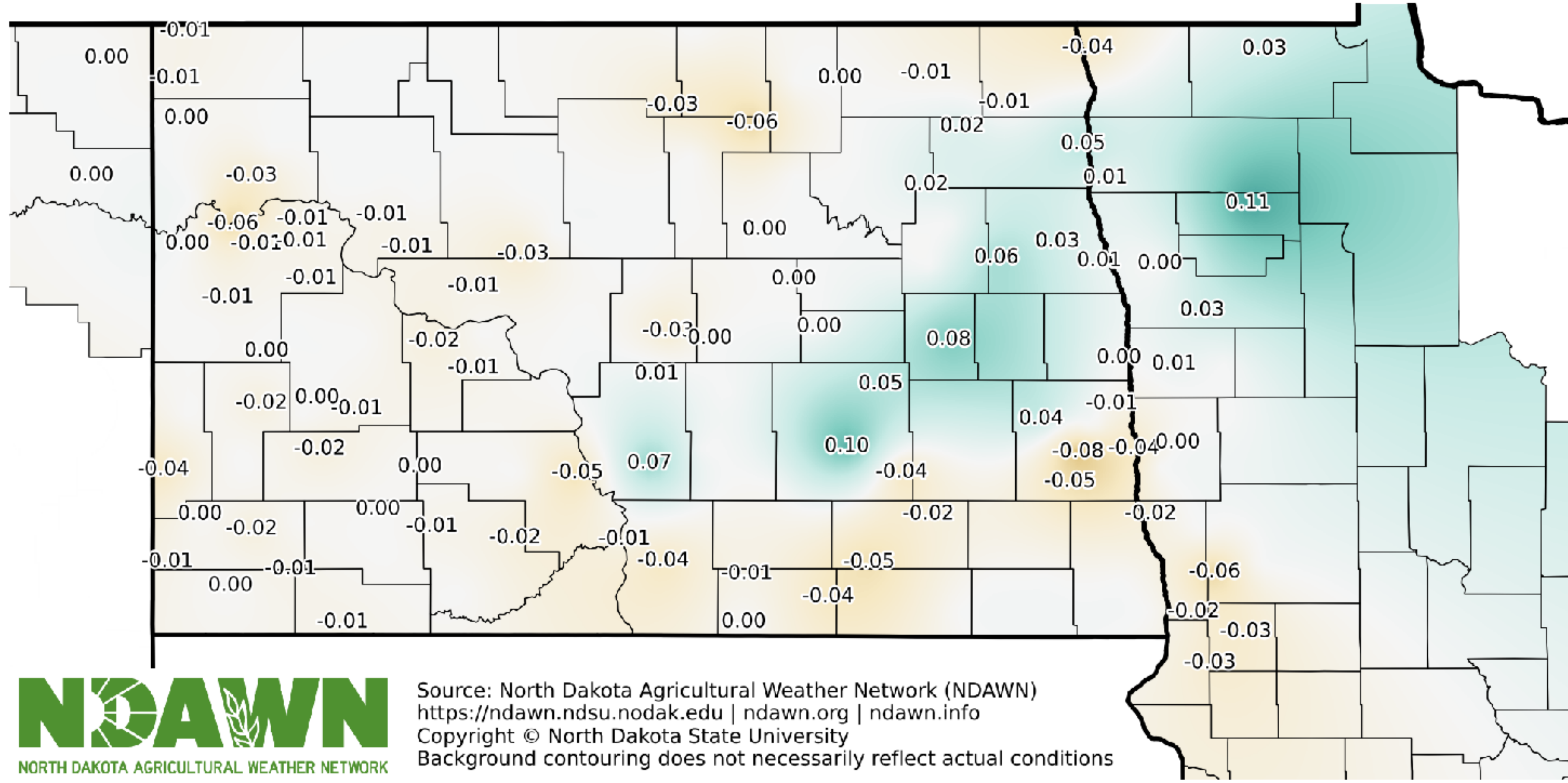
Choose a data retrieval option and select a location on the map

List of all stations  Single station  Nearest stations  Peak flow

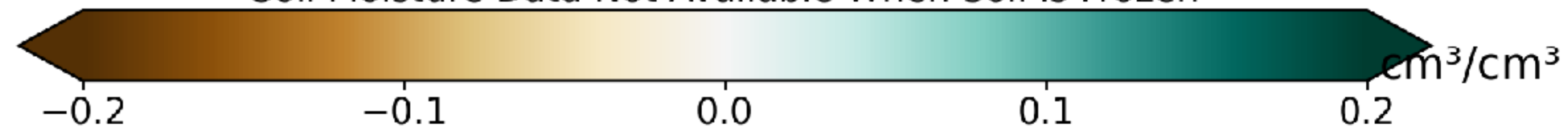
Explanation - Percentile classes							
Low	<10	10-24	25-75	76-90	>90	High	Not-ranked
	Much below normal	Below normal	Normal	Above normal	Much above normal		

# Stream Flows

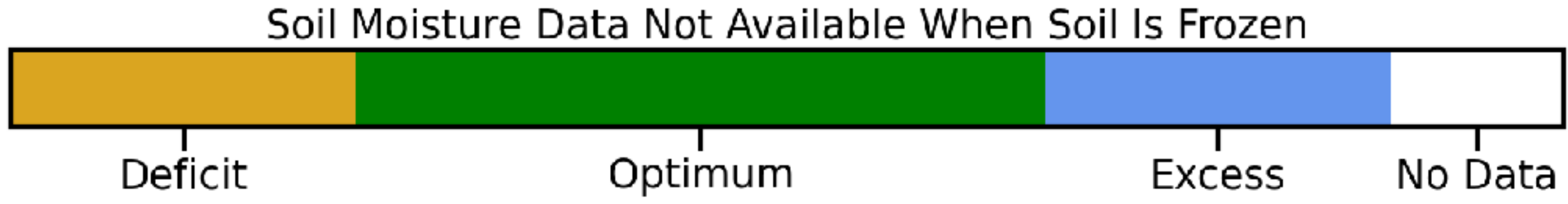
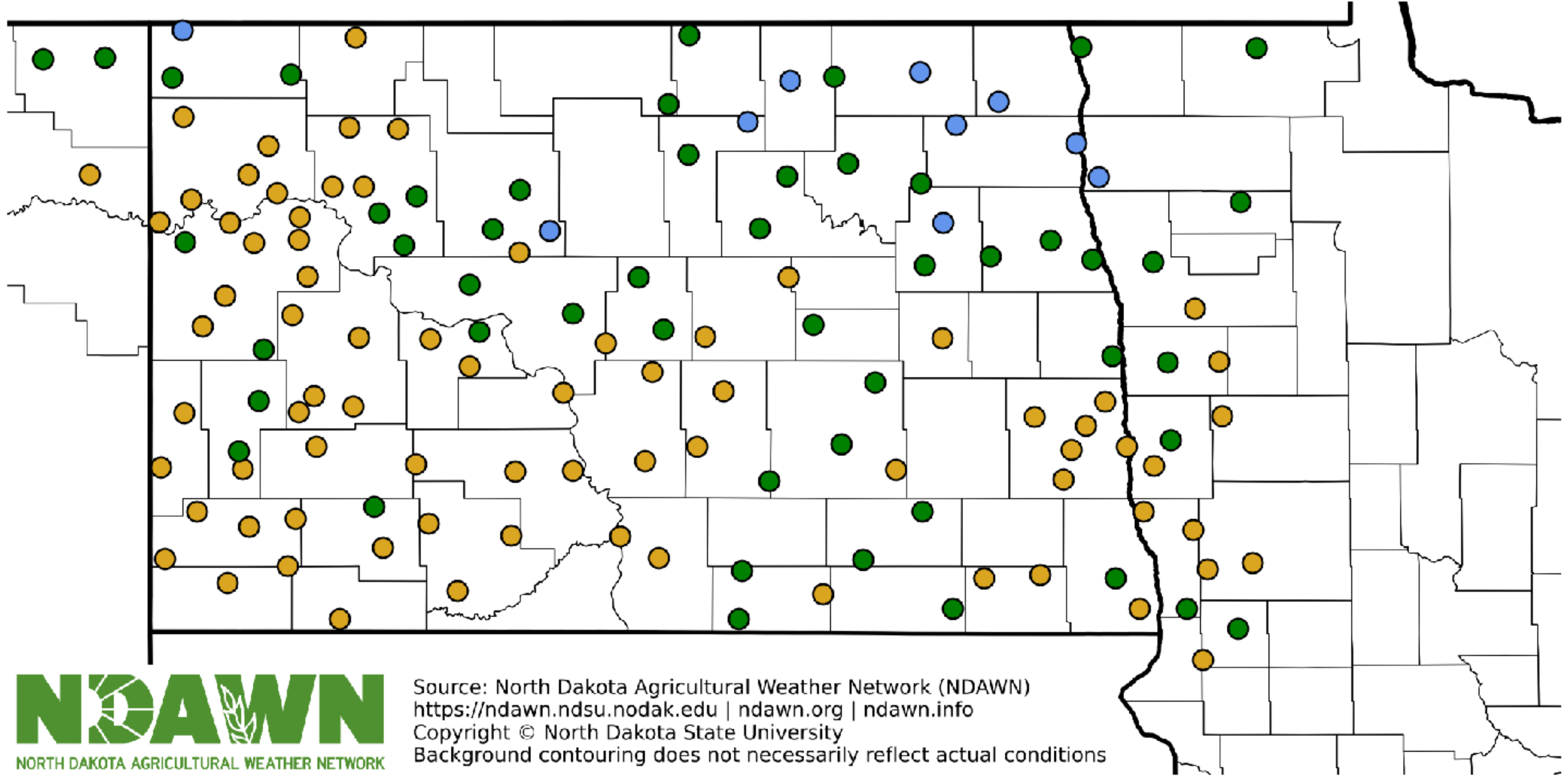




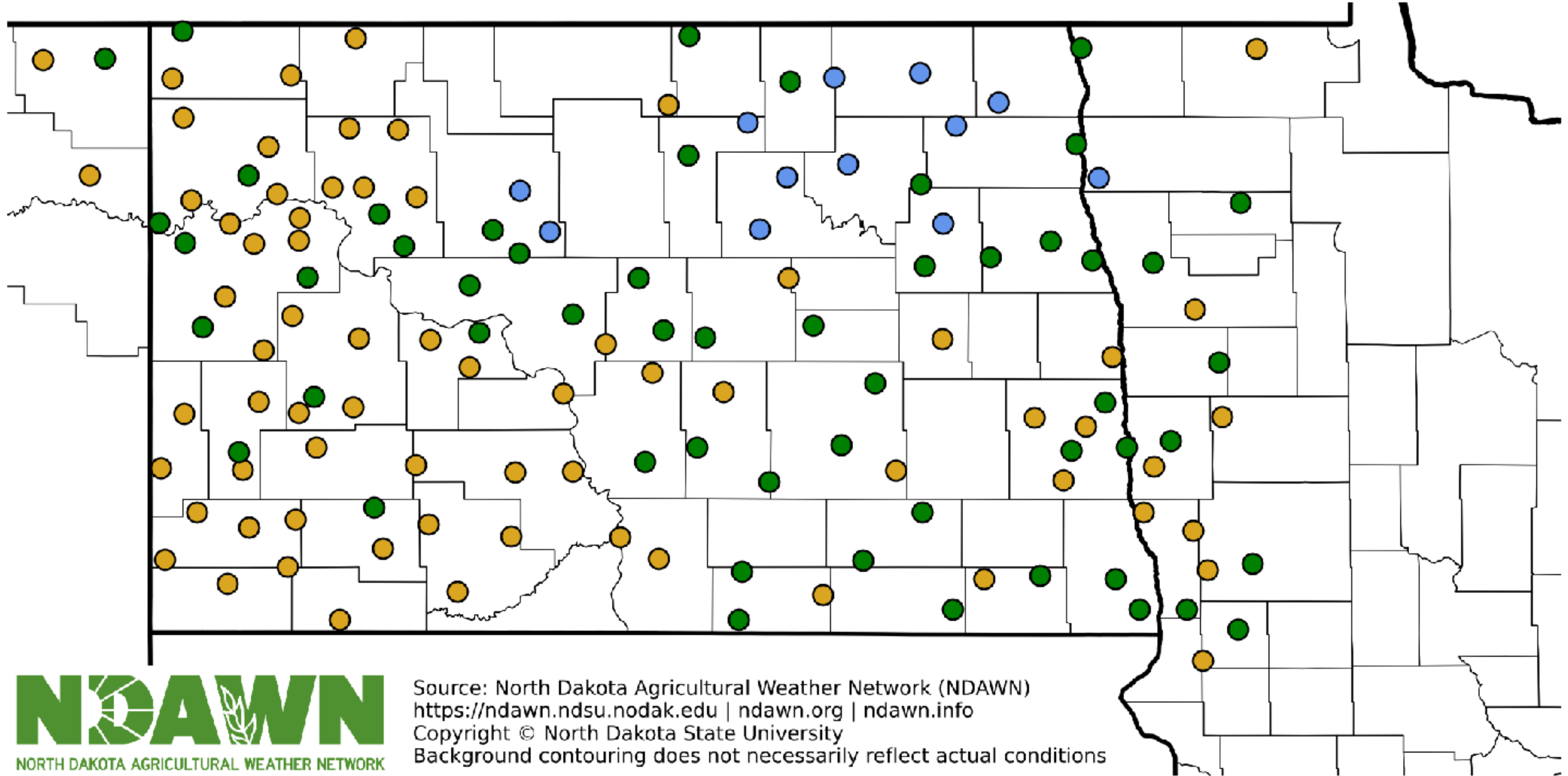
Soil Moisture Data Not Available When Soil Is Frozen



# Weekly Soil Water Change at 4 in



# Soil Water 2 inches

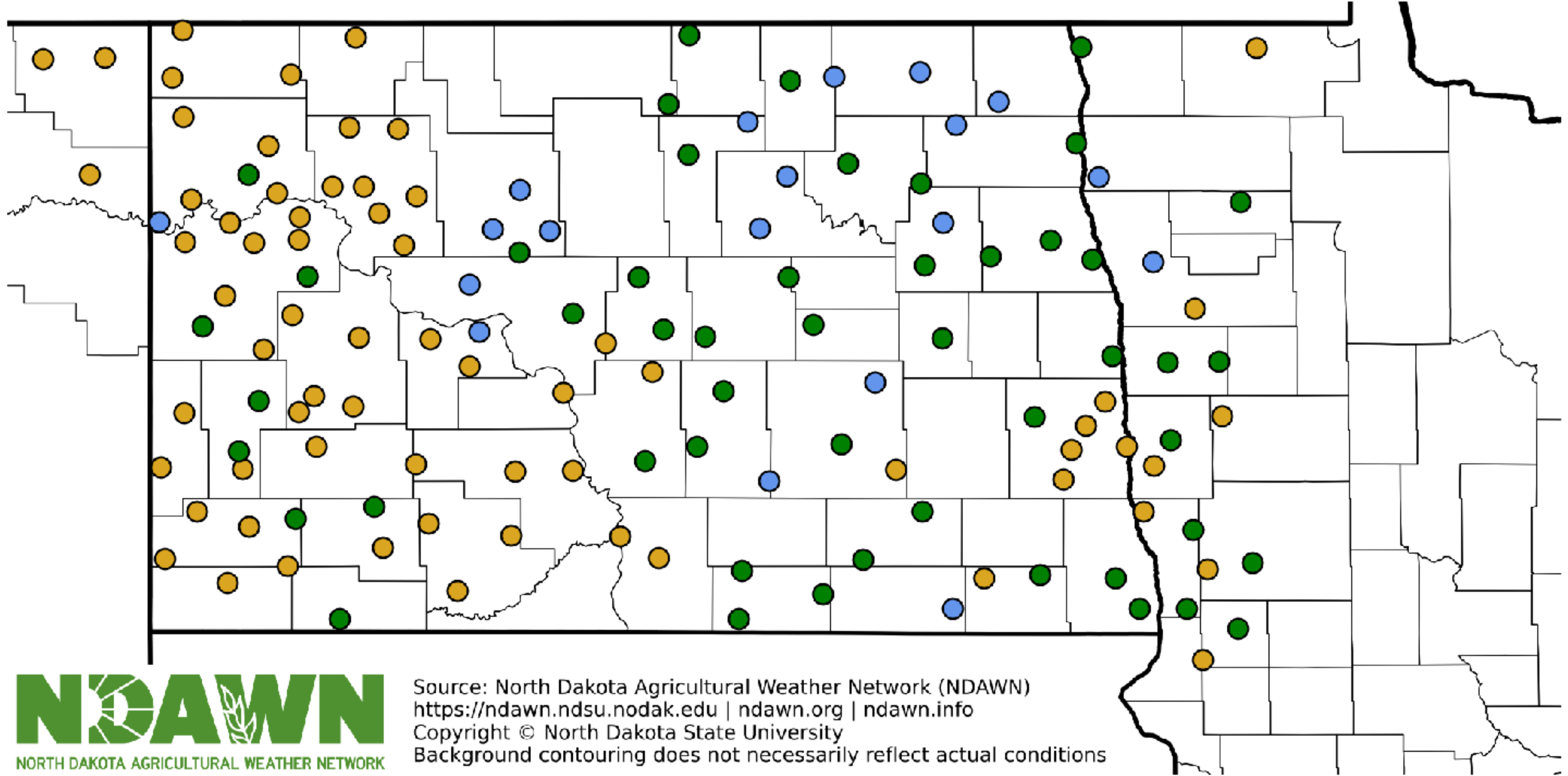


Source: North Dakota Agricultural Weather Network (NDAWN)  
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Soil Moisture Data Not Available When Soil Is Frozen

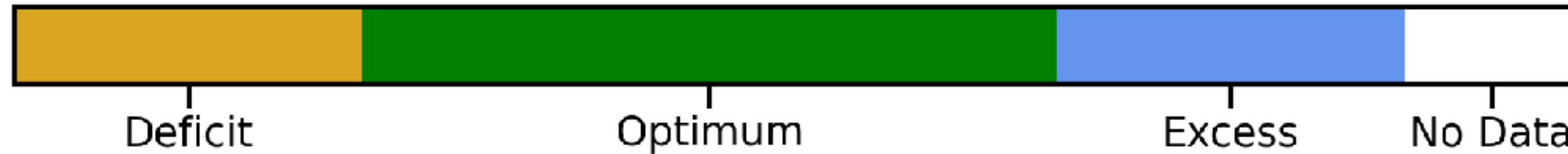


# Soil Water 4 inches

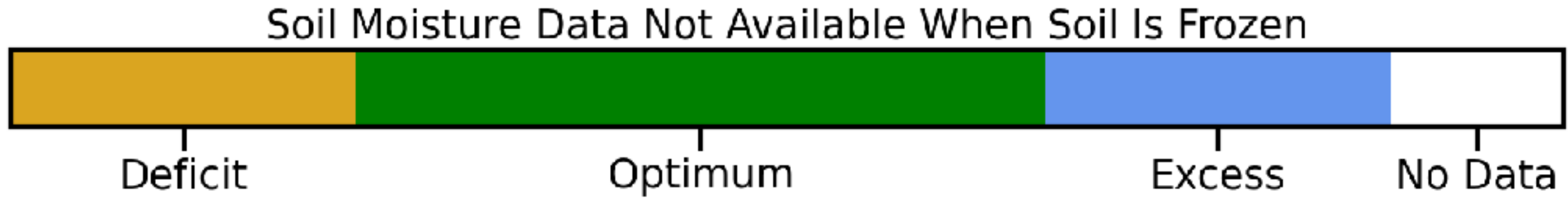
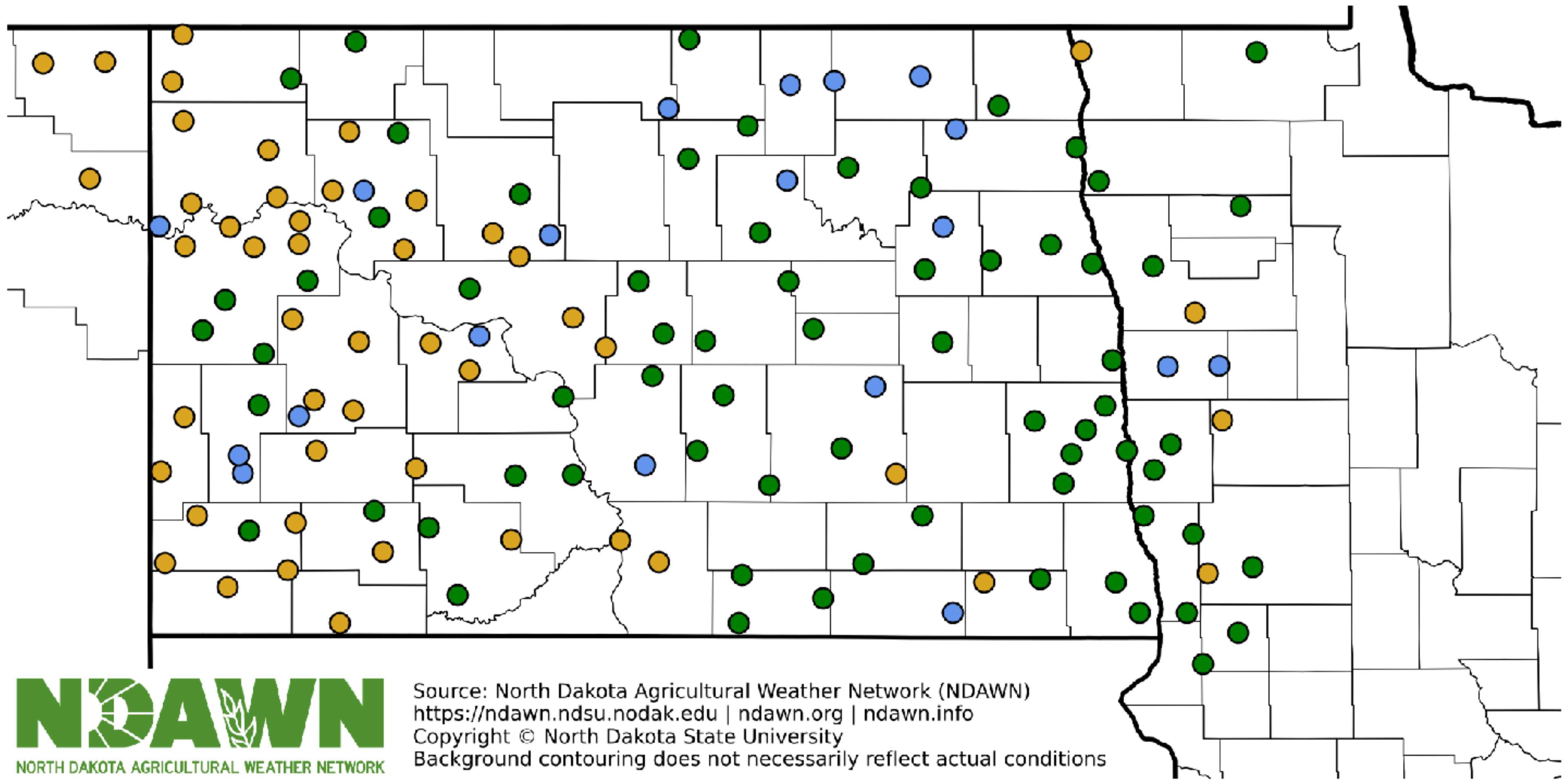


Source: North Dakota Agricultural Weather Network (NDAWN)  
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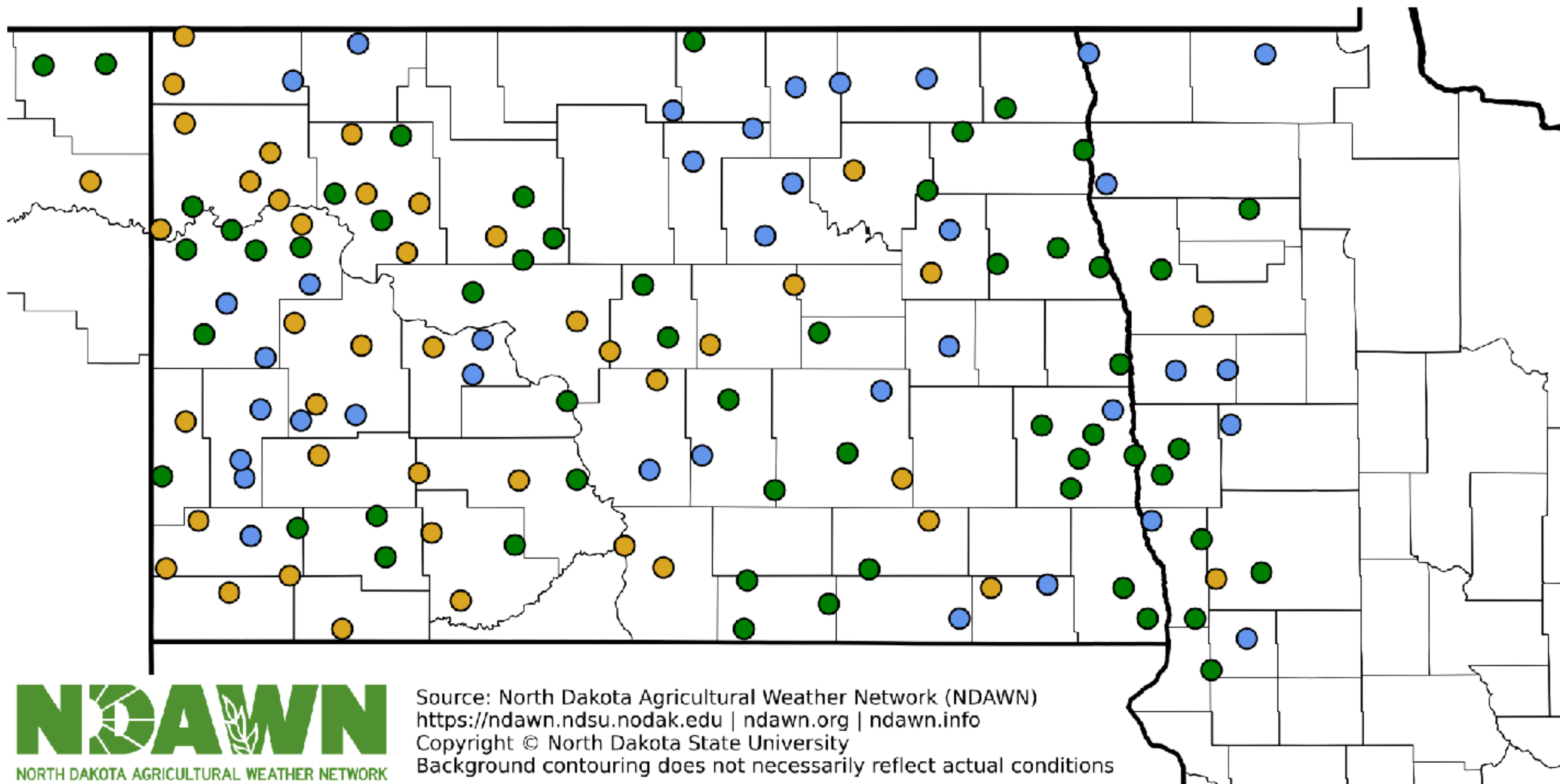
Soil Moisture Data Not Available When Soil Is Frozen



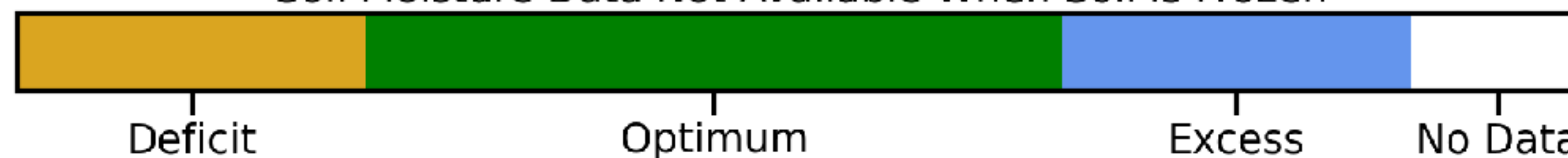
# Soil Water 8 inches



# Soil Water 20 inches



Soil Moisture Data Not Available When Soil Is Frozen

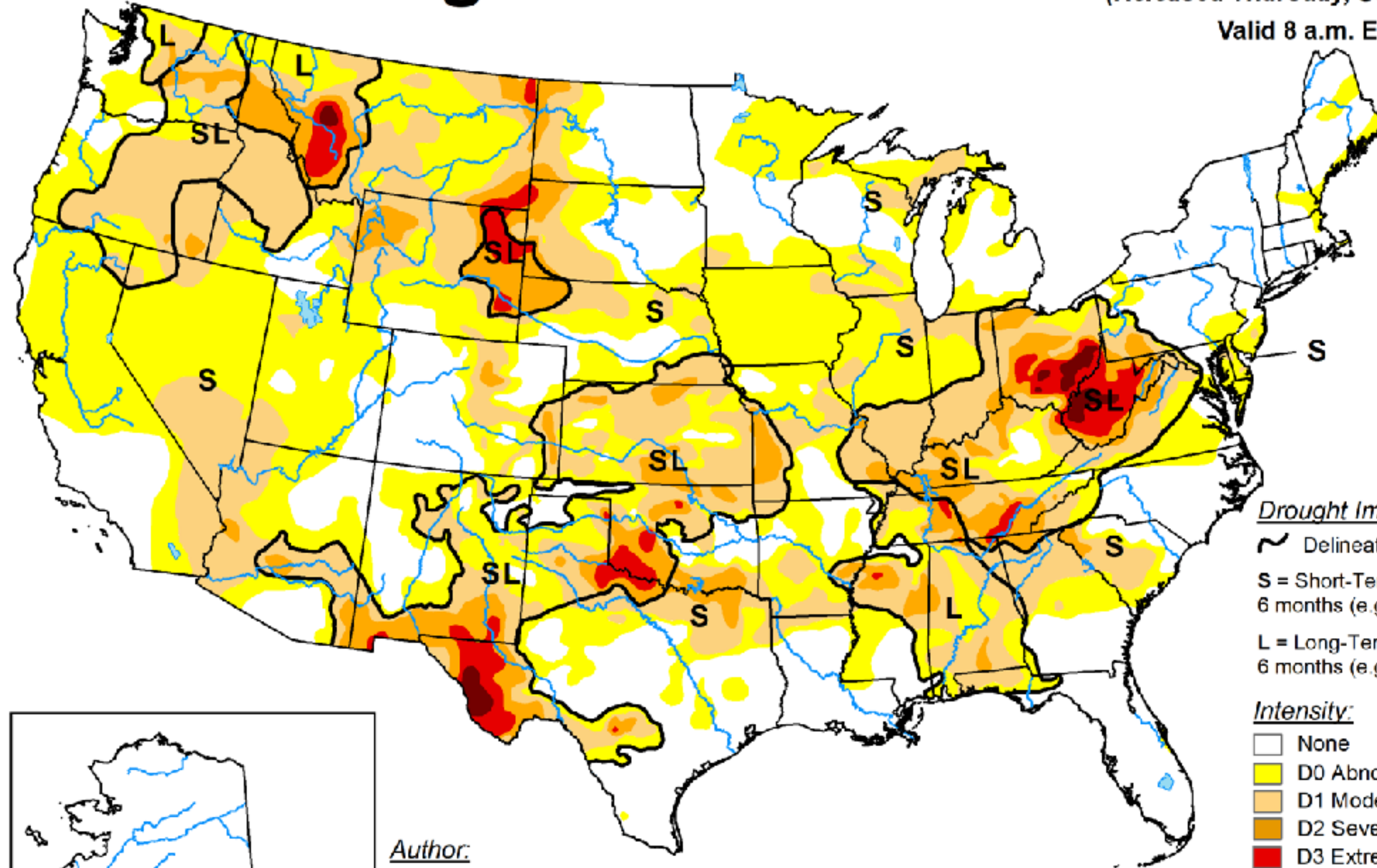


# Soil Water 40 inches

# U.S. Drought Monitor

September 17, 2024  
(Released Thursday, Sep. 19, 2024)

Valid 8 a.m. EDT

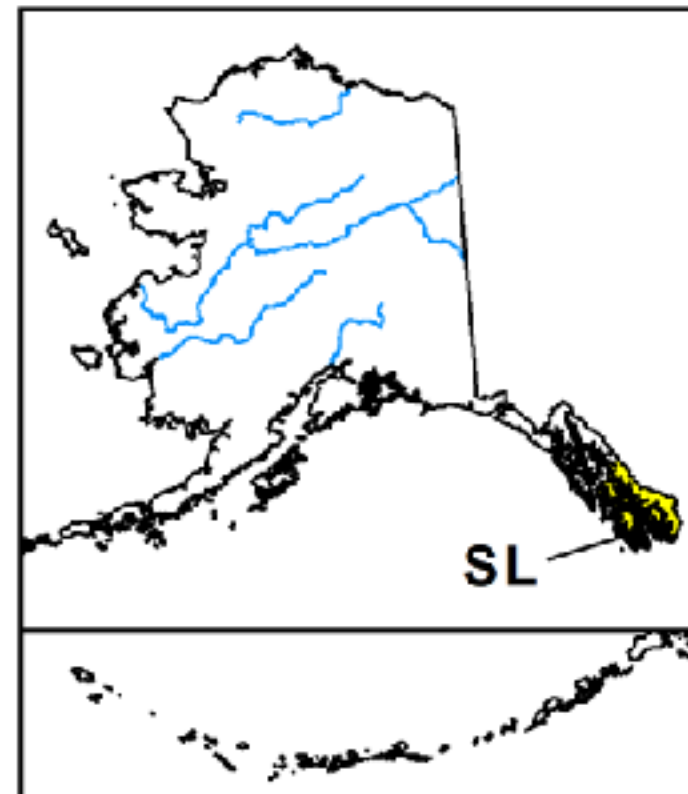


### Drought Impact Types:

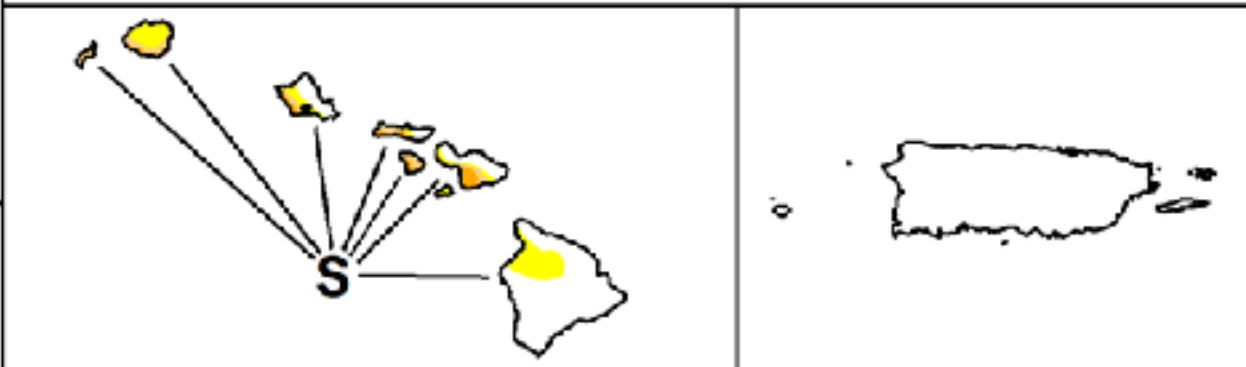
- ~ Delineates dominant impacts
- S = Short-Term, typically less than 6 months (e.g. agriculture, grasslands)
- L = Long-Term, typically greater than 6 months (e.g. hydrology, ecology)

### Intensity:

- None
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought



Author:  
Brad Rippey  
U.S. Department of Agriculture



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>

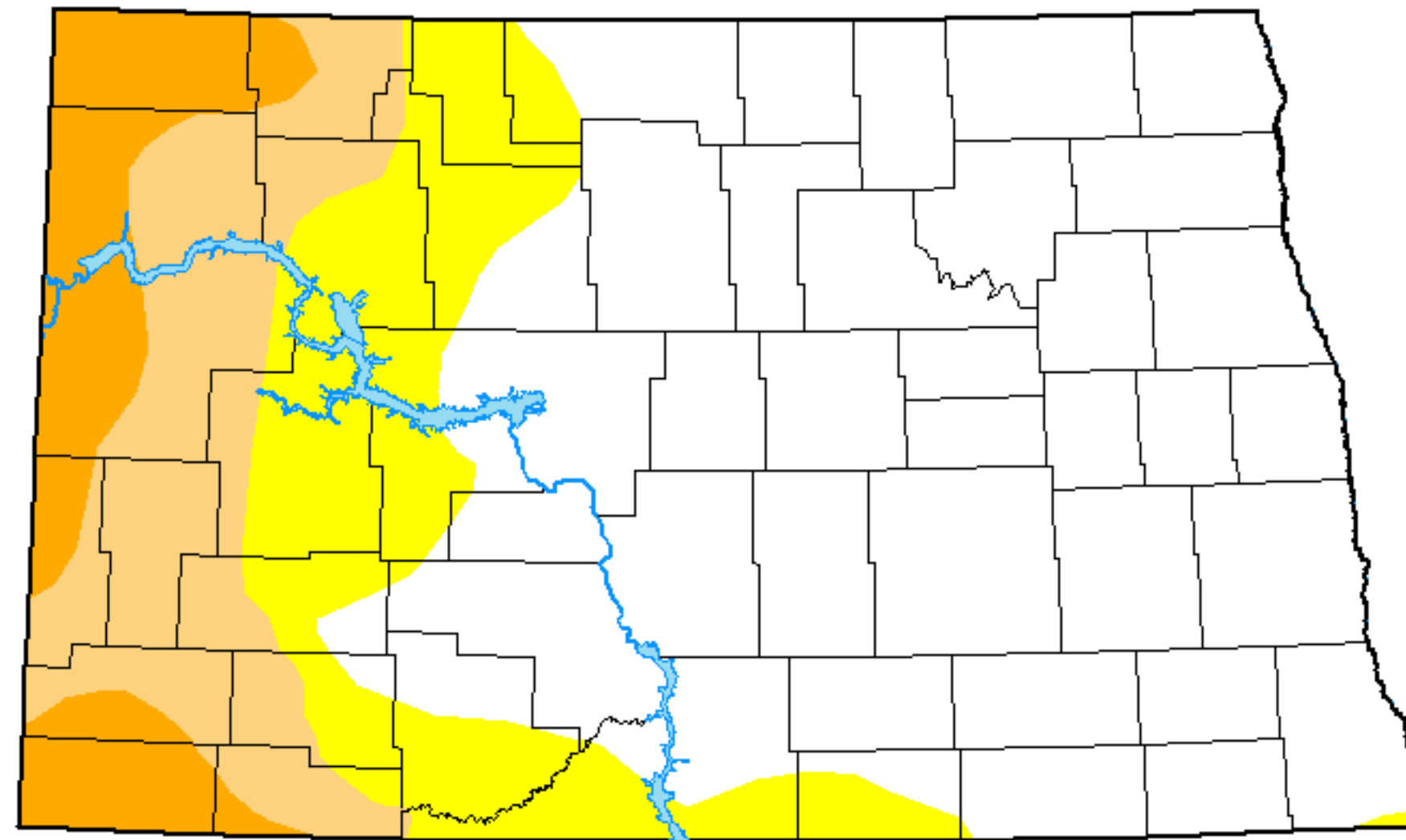


[droughtmonitor.unl.edu](https://droughtmonitor.unl.edu)







# Current Drought Monitor

**U.S. Drought Monitor**  
**North Dakota**

**September 17, 2024**  
(Released Thursday, Sep. 19, 2024)  
Valid 8 a.m. EDT



***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:***

Brad Rippey  
U.S. Department of Agriculture



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

# Current Drought Monitor



### Drought Classification

None

D0 (Abnormally Dry)

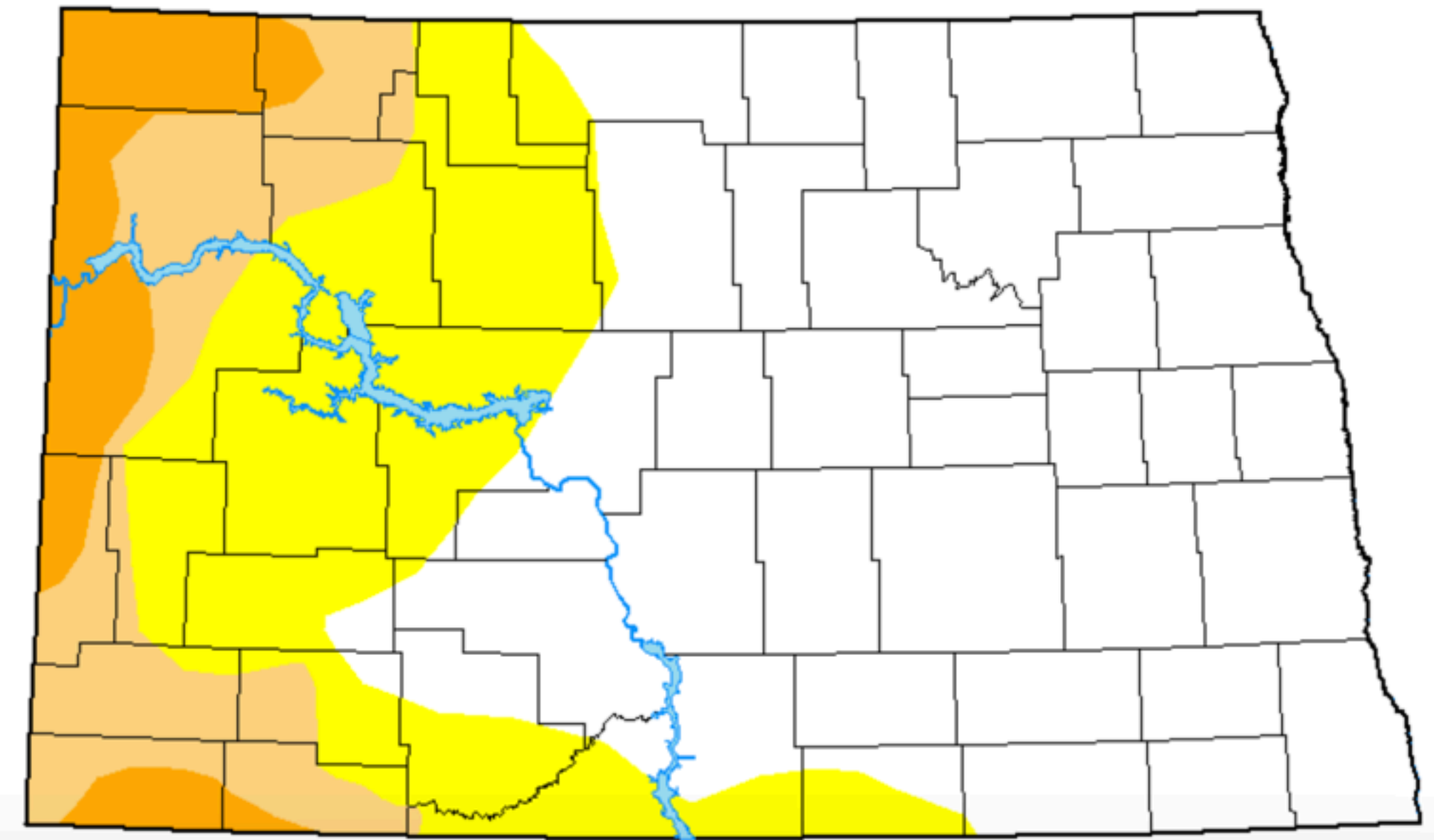
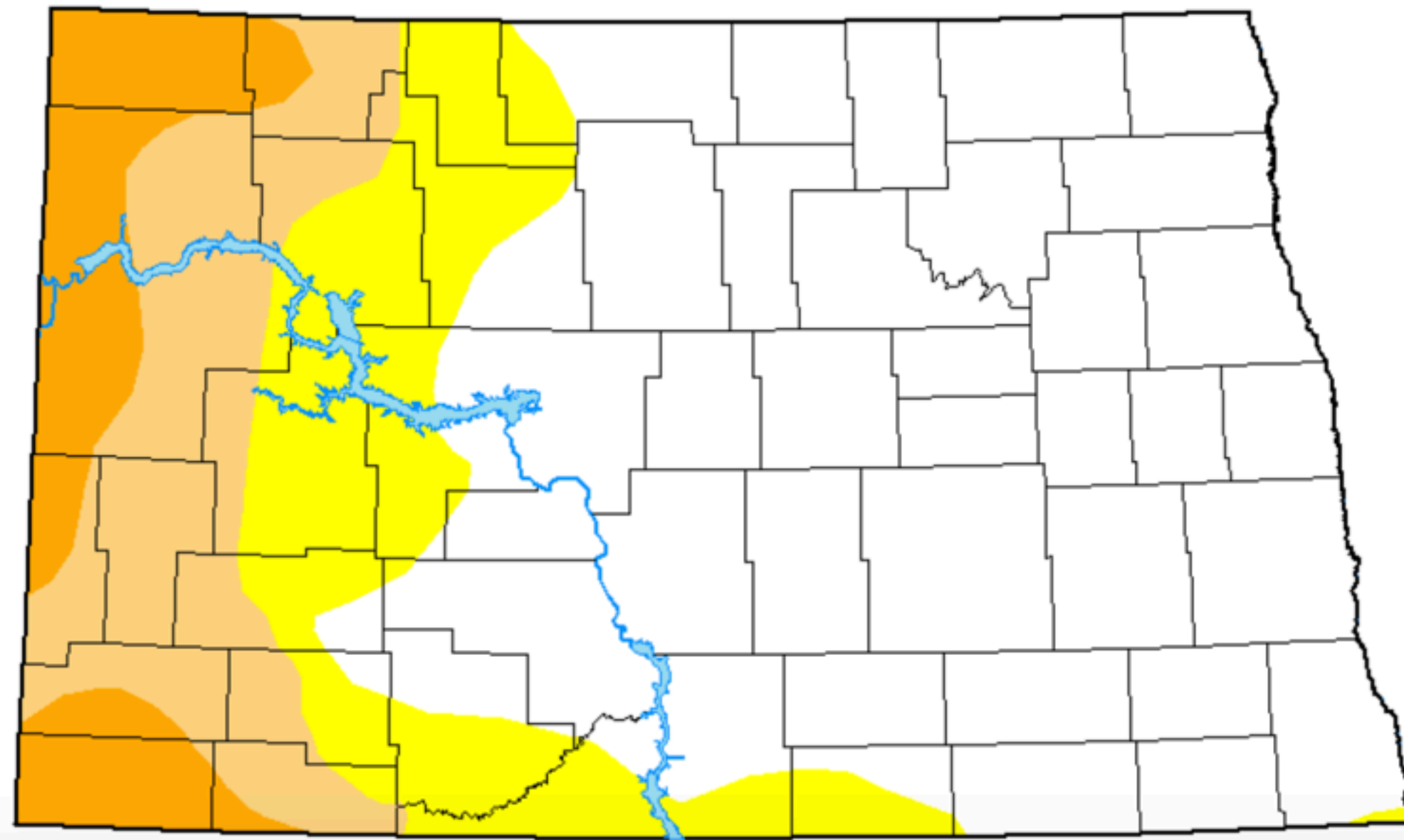
D1 (Moderate Drought)

D2 (Severe Drought)

D3 (Extreme Drought)

D4 (Exceptional Drought)

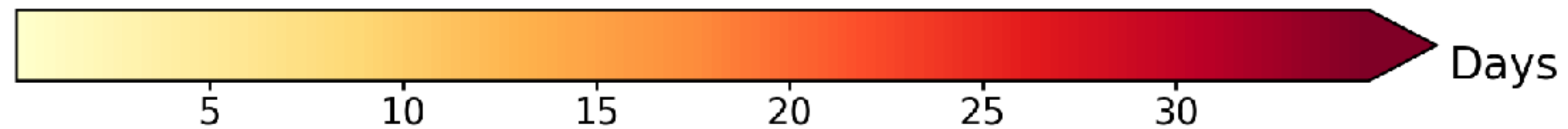
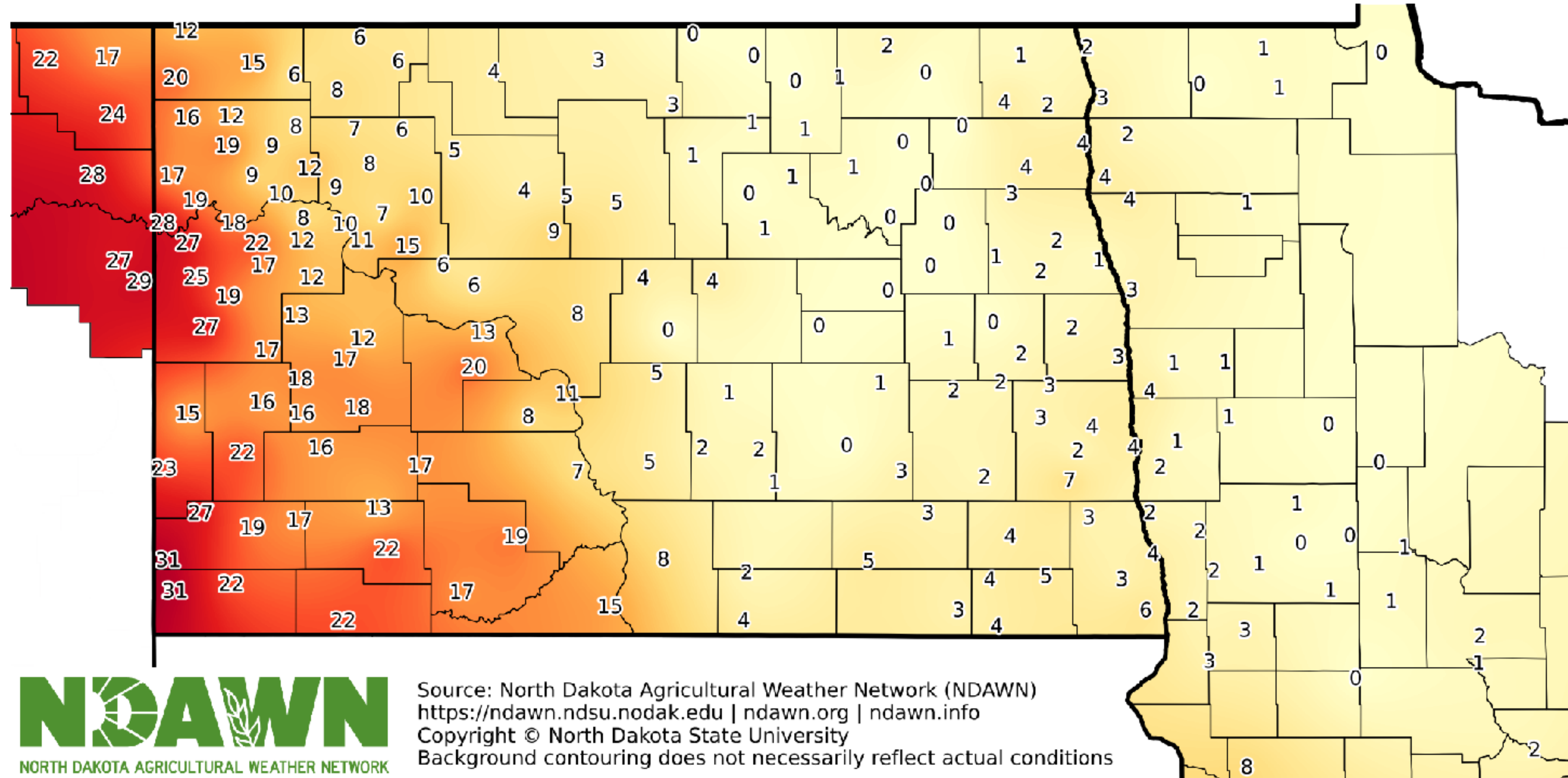
No Data



# Two Week Comparison

Total Number of Days with Maximum Temperature 90 ° F+

Apr 01 2024 - Sep 18 2024



90° Days in 2024

# Summary

Continued Warmer than Average

Widespread Freeze Unlikely Until Late Month/October

Dry Areas Mostly Staying Dry

Abnormally Dry moving into SE North Dakota (Do)

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