

North Dakota Bi-Weekly Drought Update

Daryl Ritchison, June 27, 2024

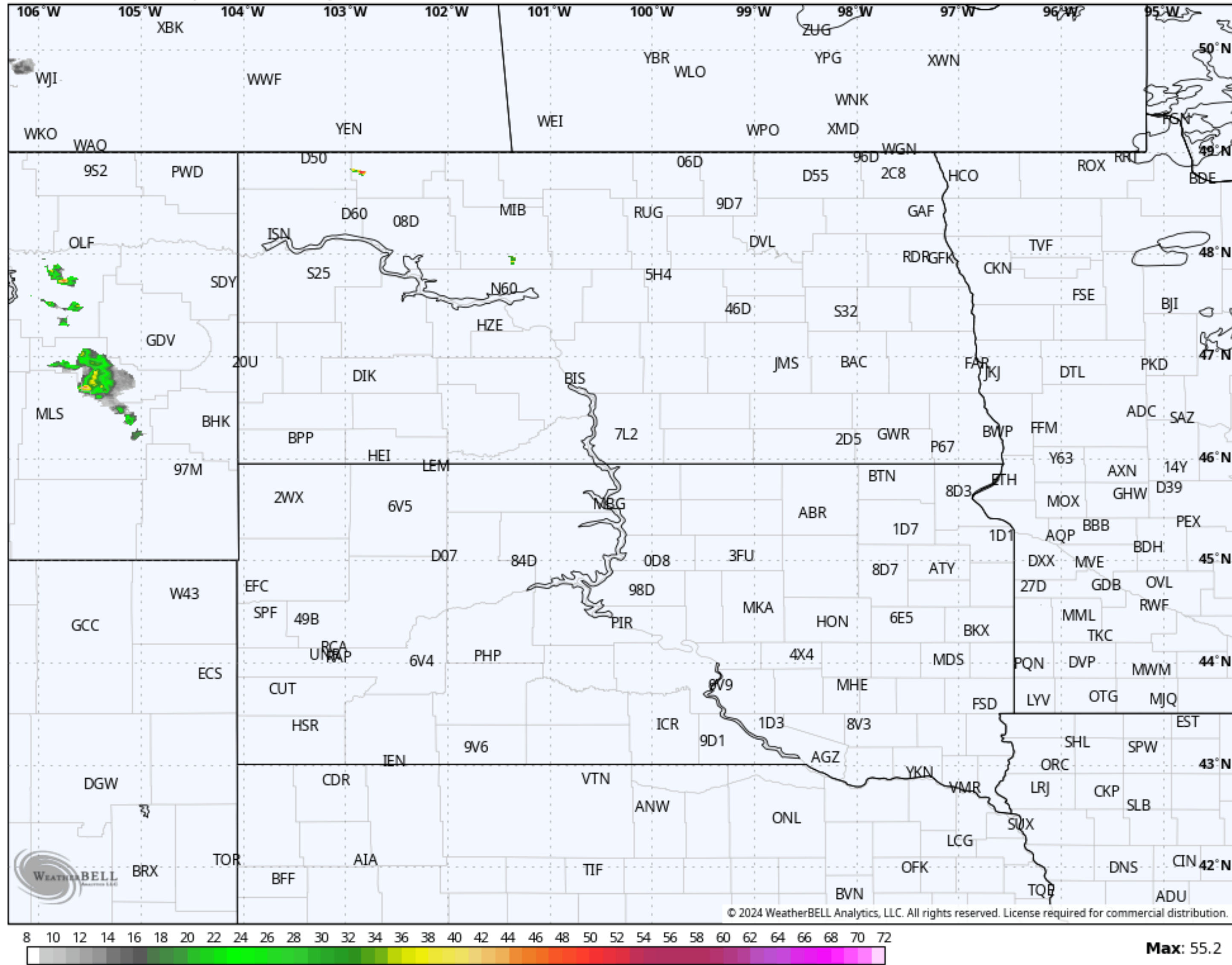
North



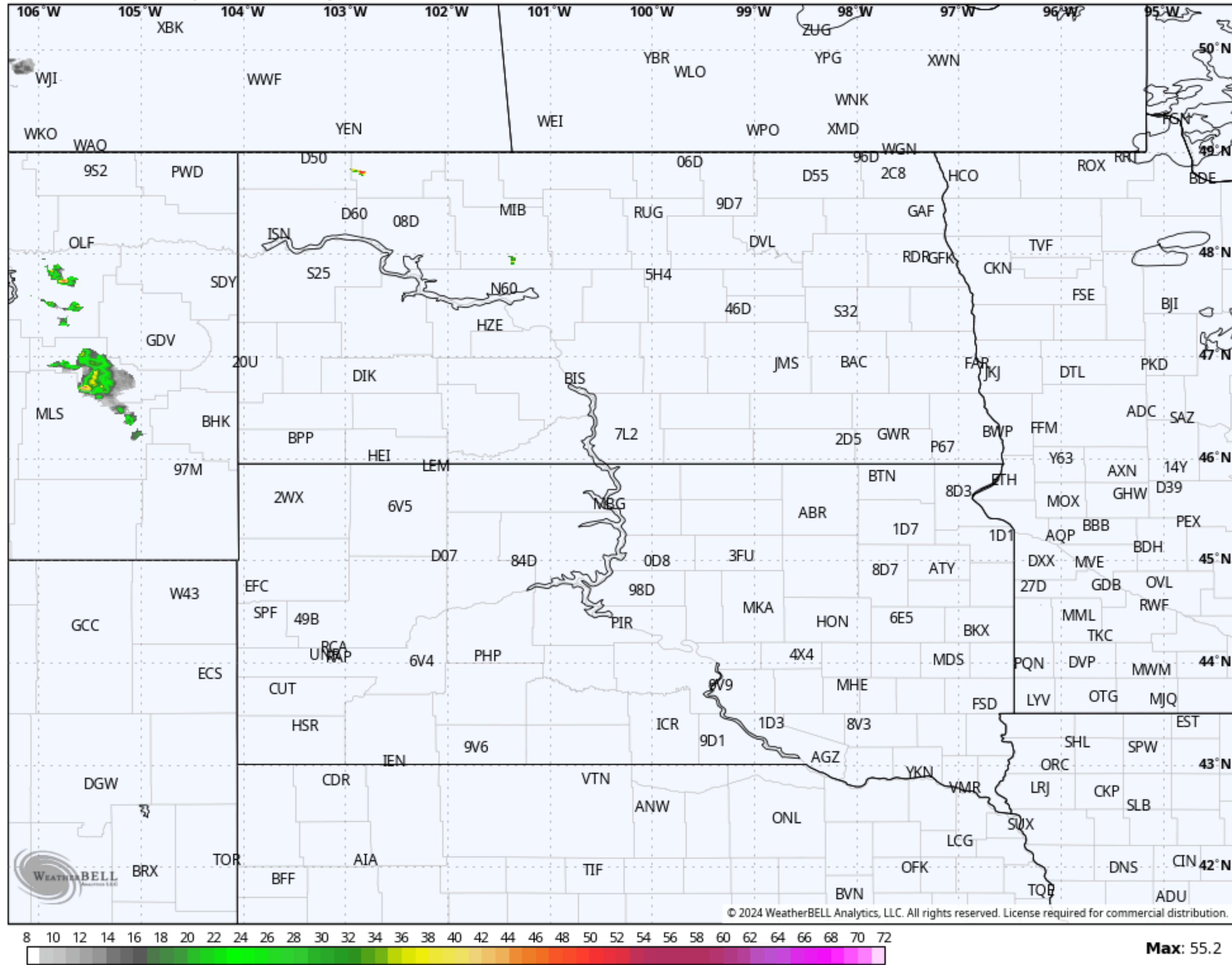
NDAWN Crane Creek

Recording

07/06/2024 05:14:54 PM



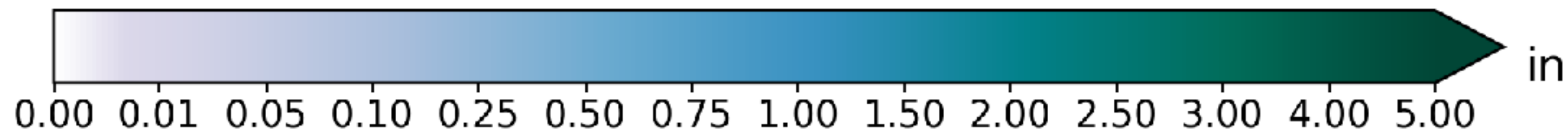
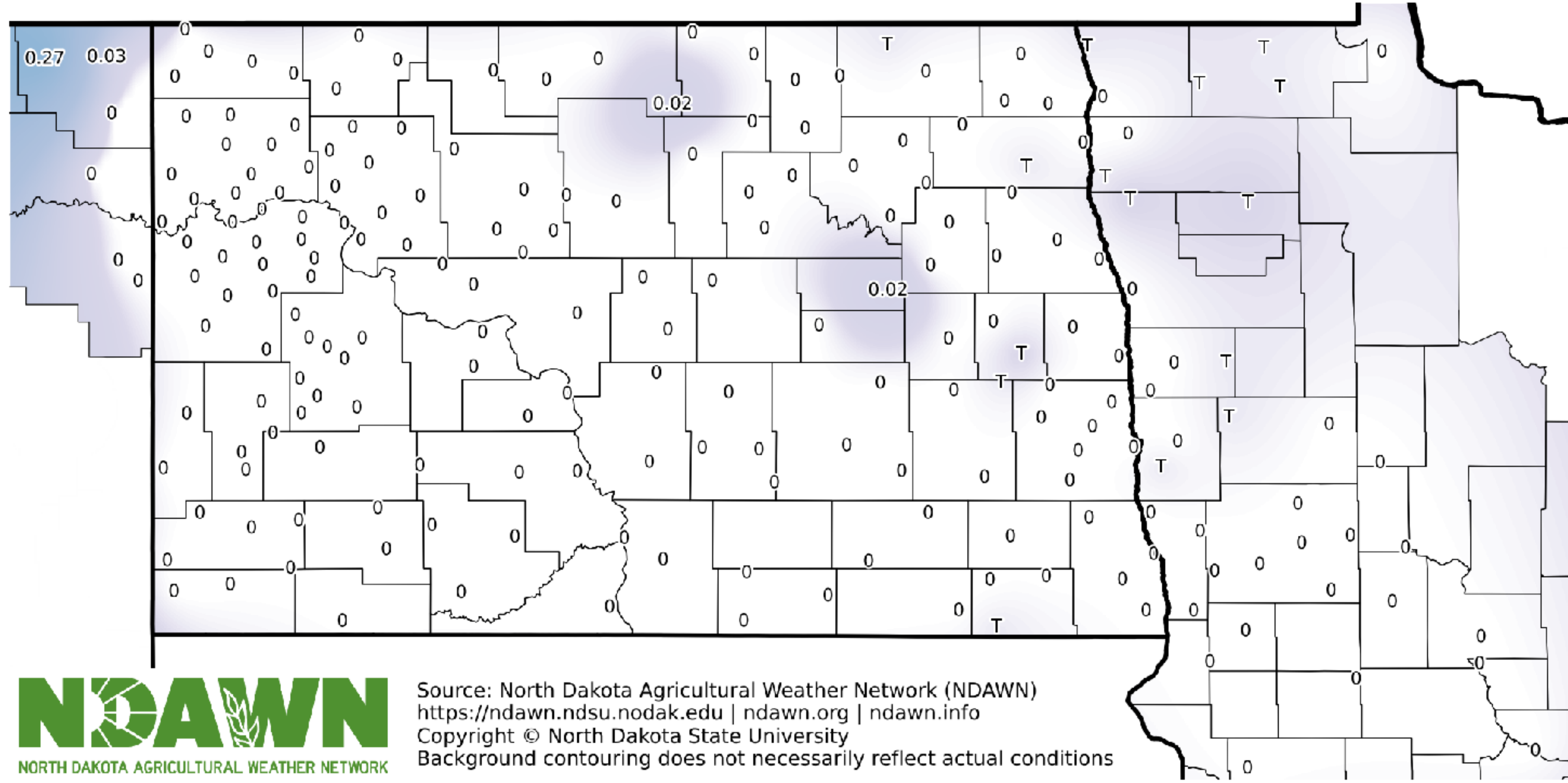
Radar This Morning



Radar This Morning

Today's Total Rain (in)

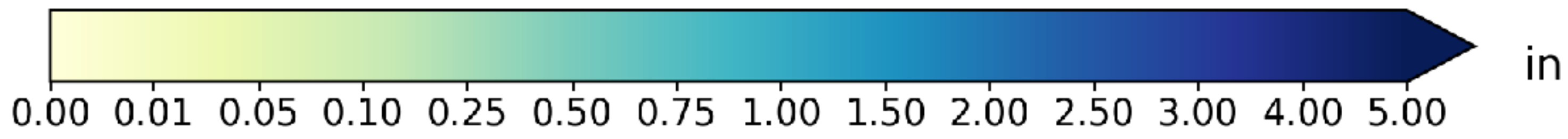
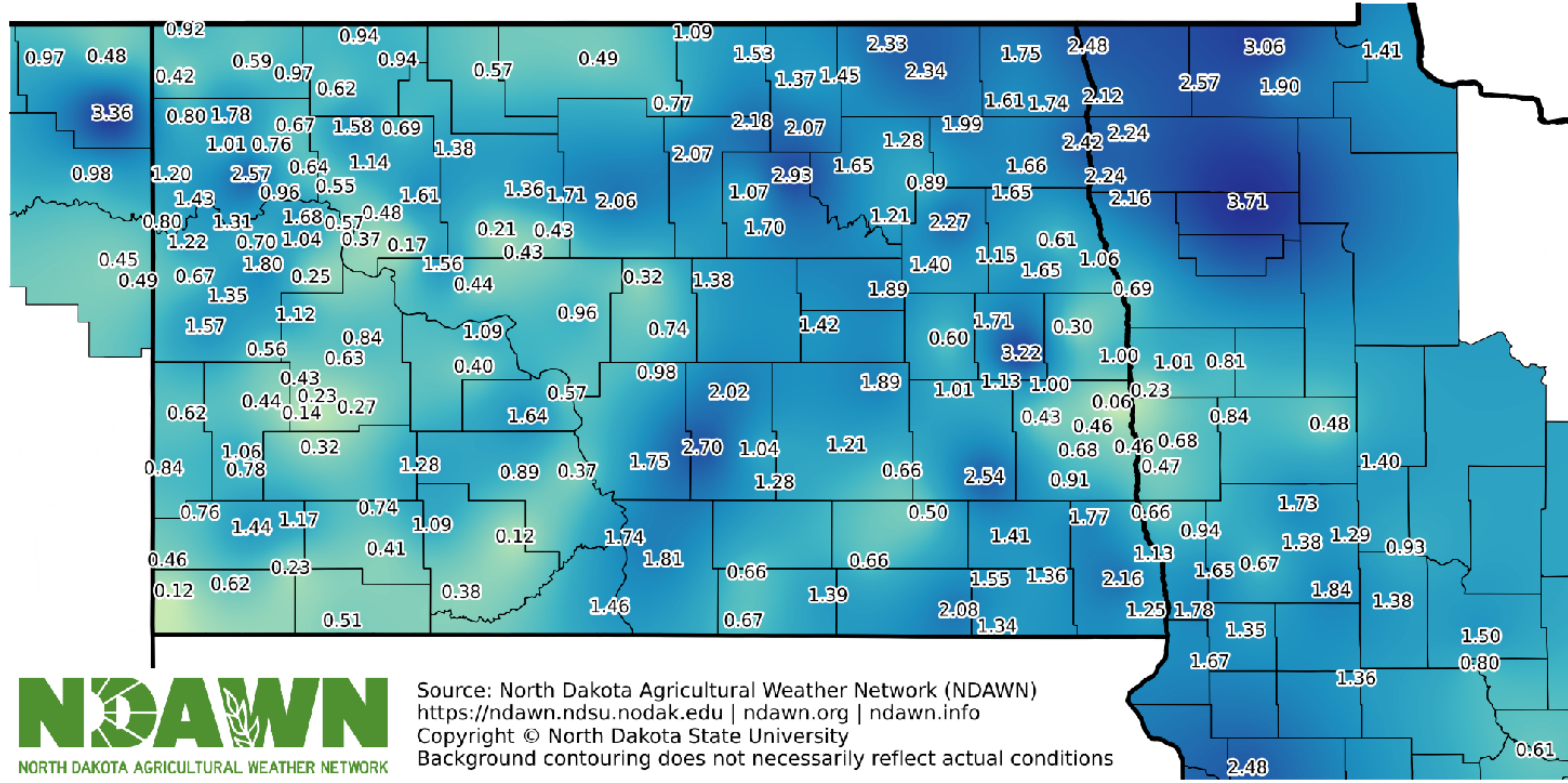
Jul 11 2024 08:36 AM



Rain Today

Total Precipitation - Current Month

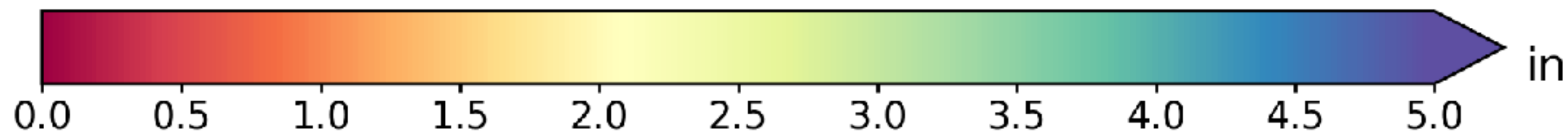
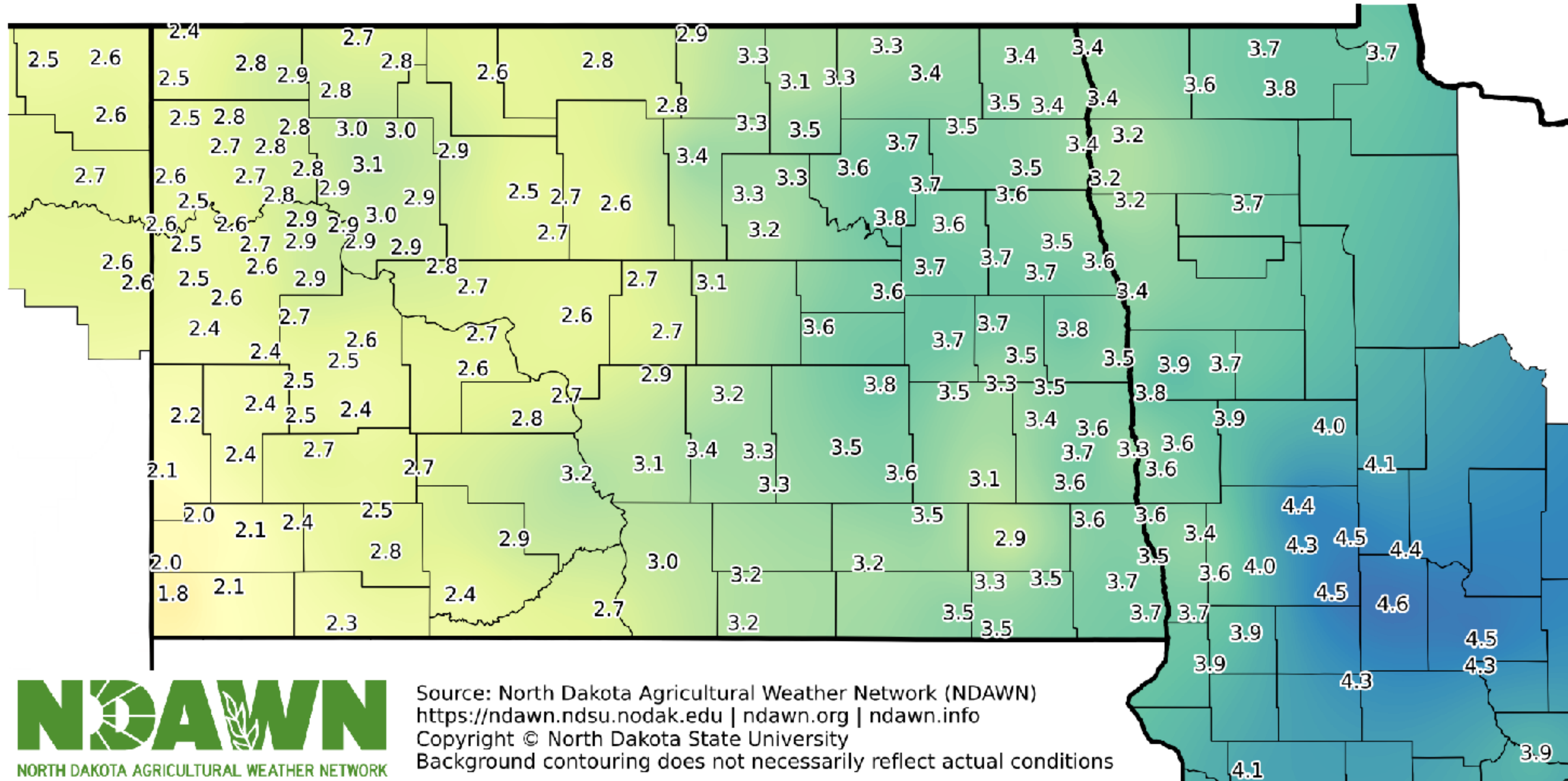
Jul 10 2024



July Rain

July Total Precipitation (in)

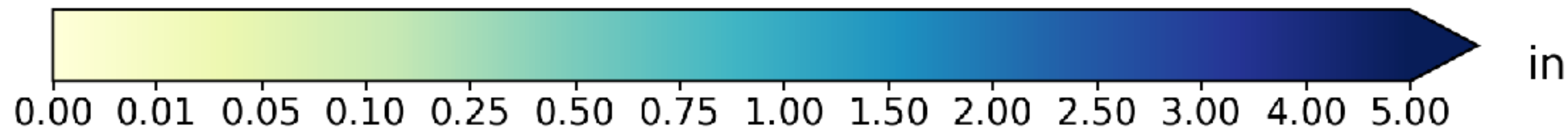
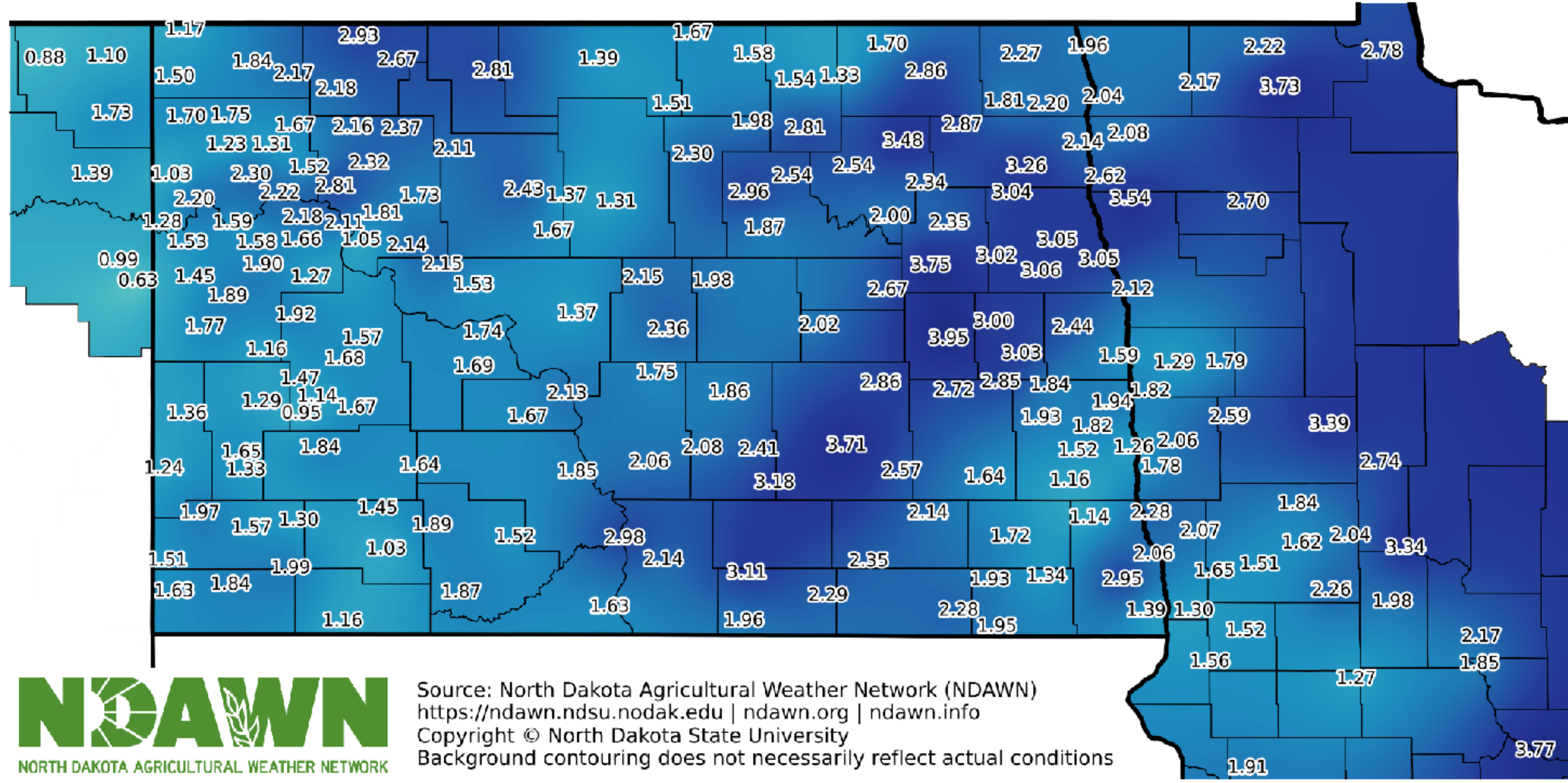
1991-2020 Climate Normals



July Average Rainfall

Total Precipitation - Past 14 Days

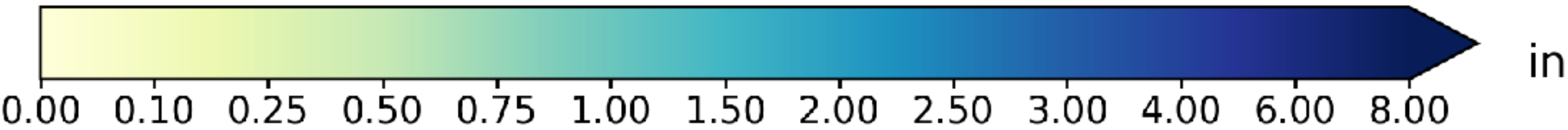
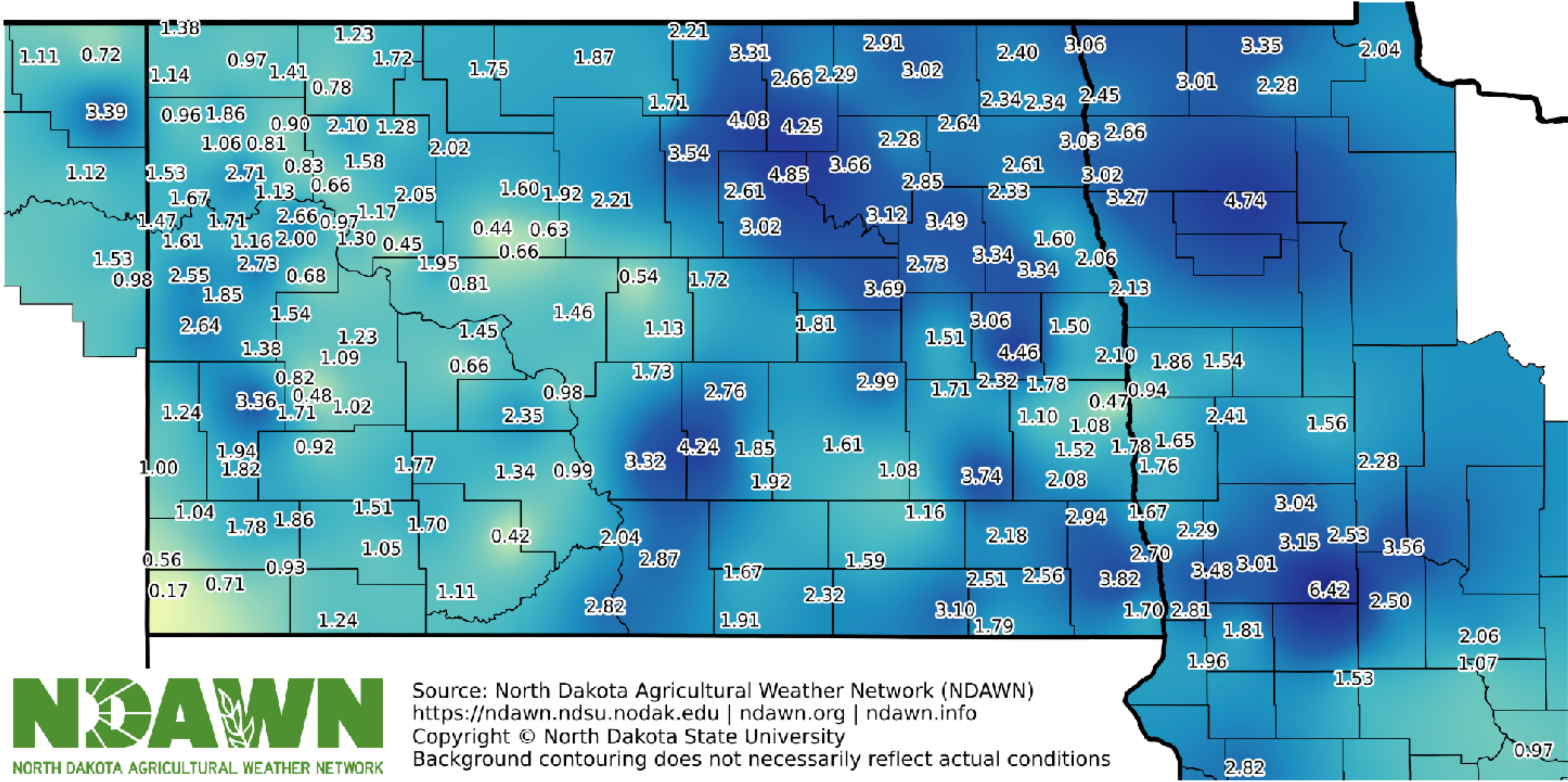
Jun 26 2024



Two-Week Rain Totals

Total Precipitation - Past 14 Days

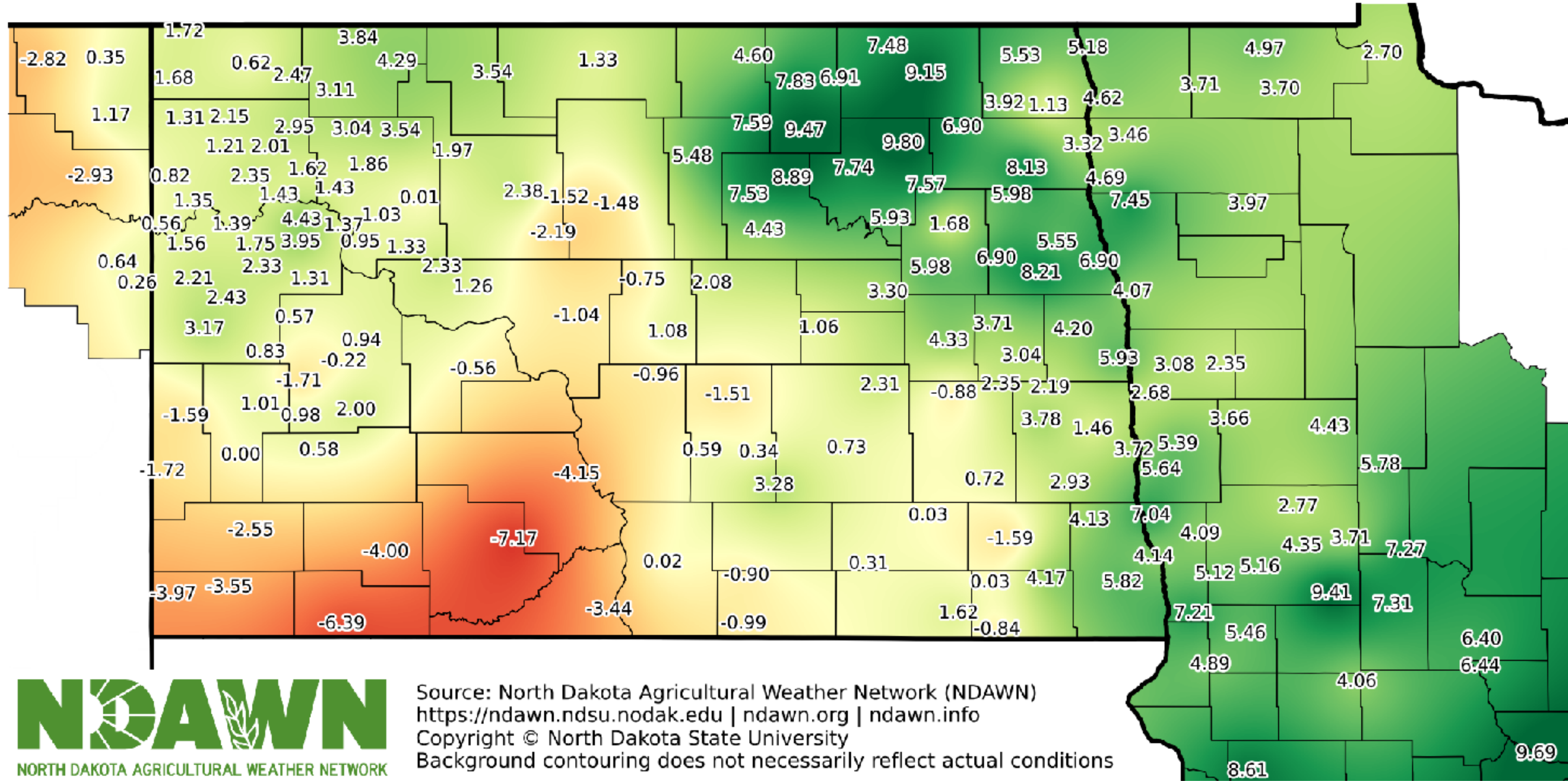
Jul 10 2024



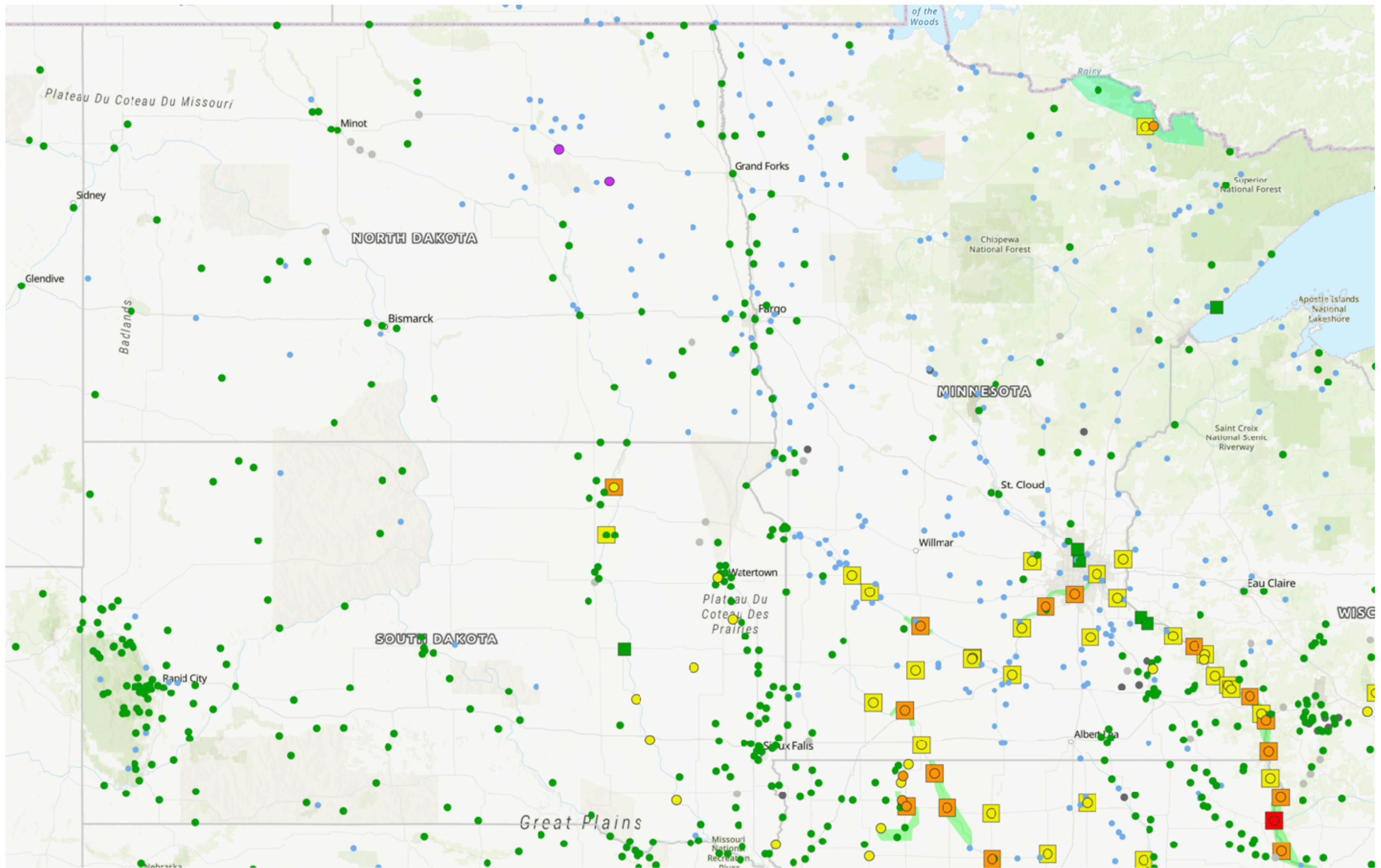
Rain the Past 2 Weeks

Departure from 2023 Precipitation (in)

May 01 - Jun 30 2024

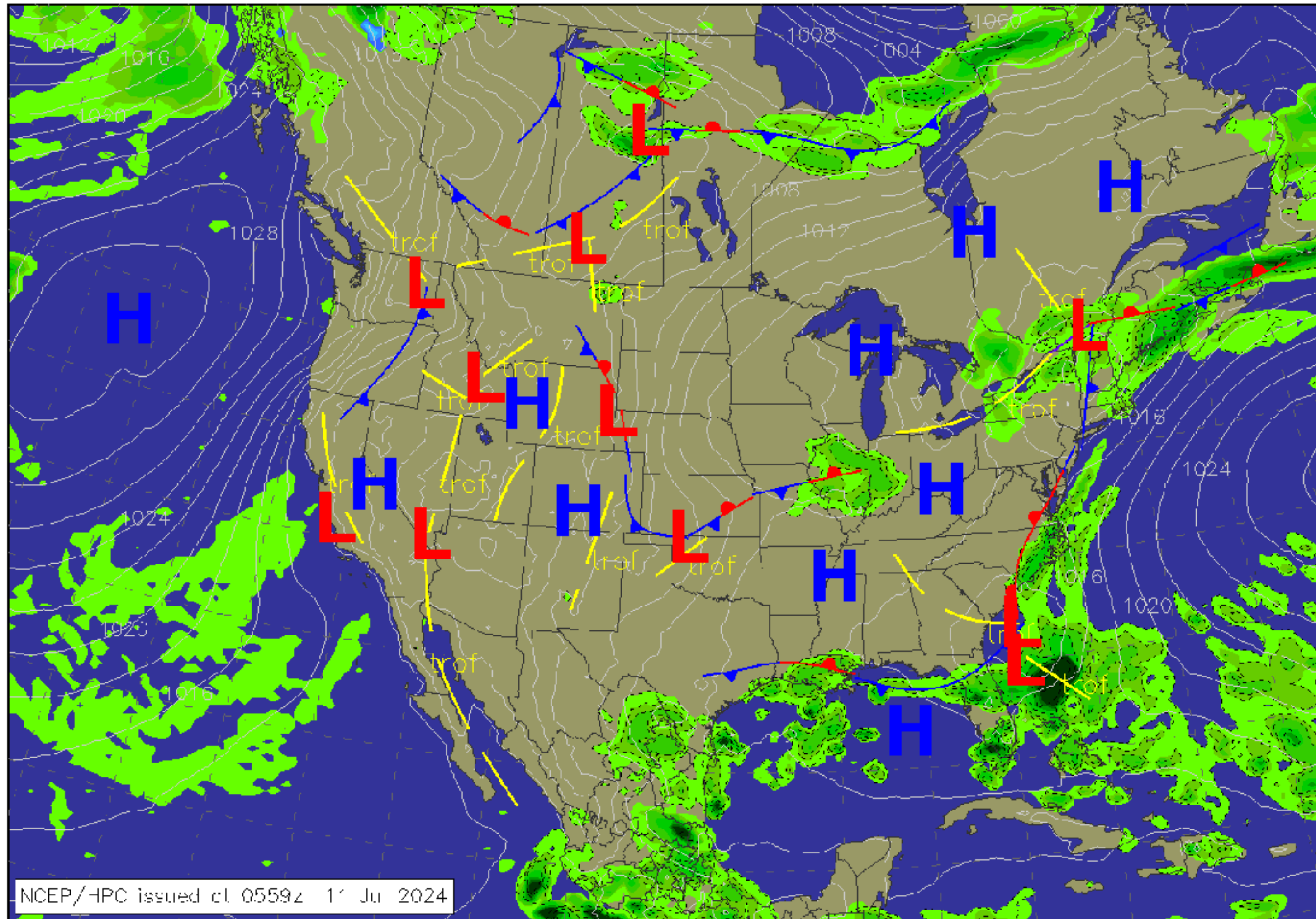


2023 v. 2024



Stream Flows

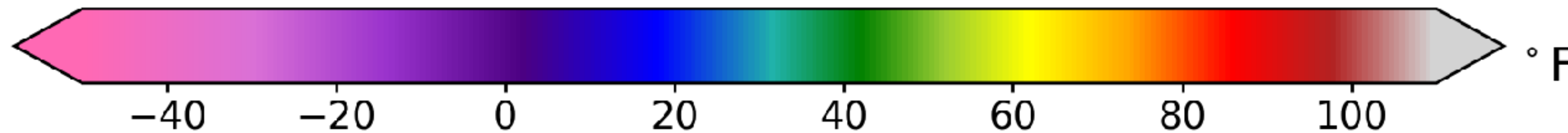
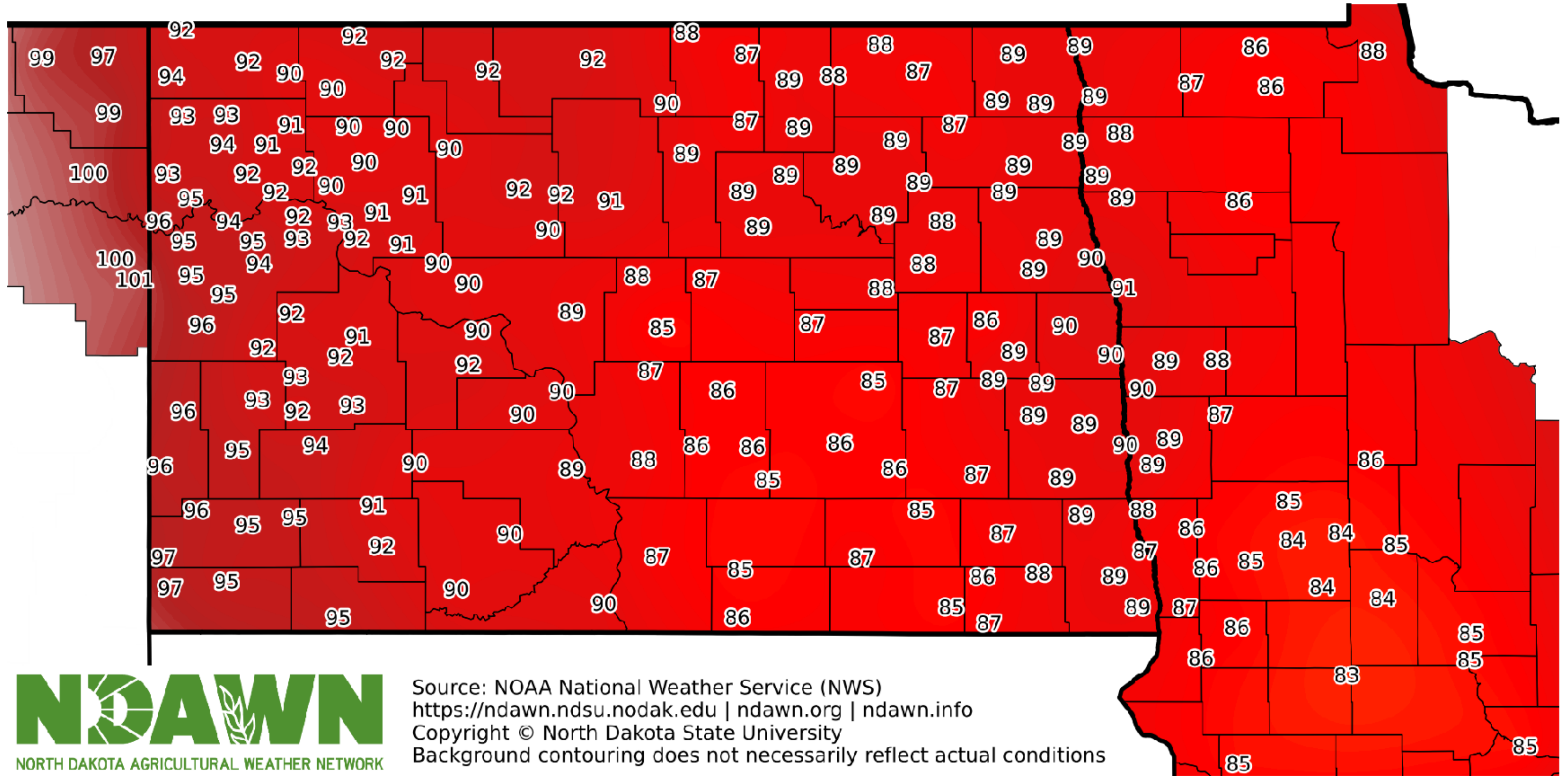
12 hr forecast valid 1800 UTC Thu 11 Jul 2024



National Surface Map

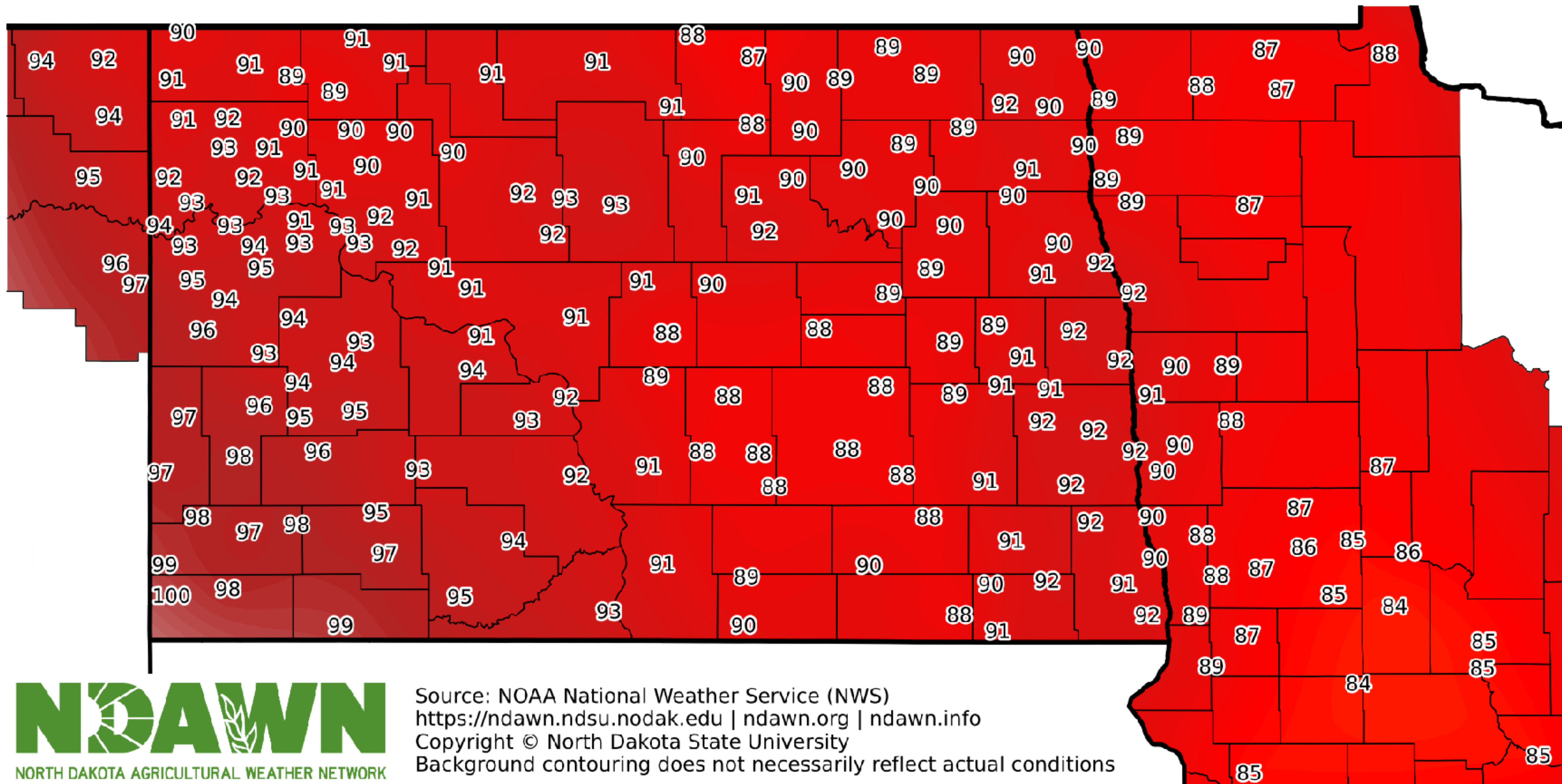
NWS Forecast Maximum Temperature for Today (° F)

Created: Jul 11 2024

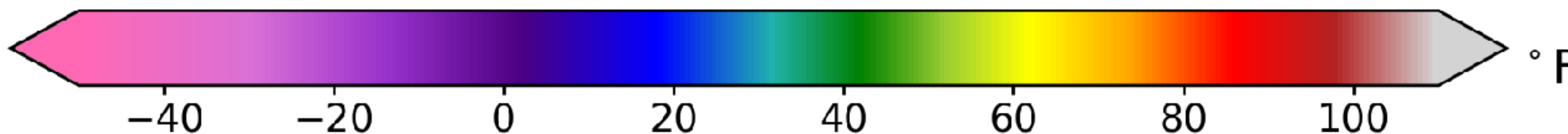


NWS Forecast Maximum Temperature for Tomorrow (° F)

Created: Jul 11 2024

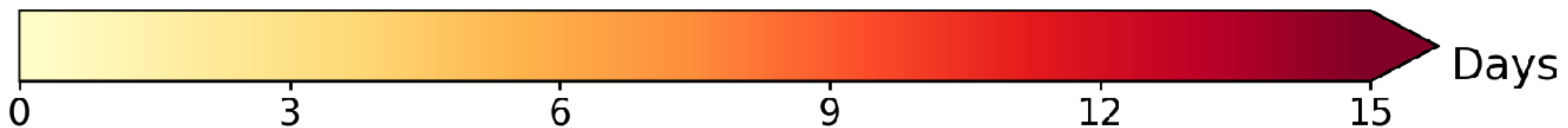
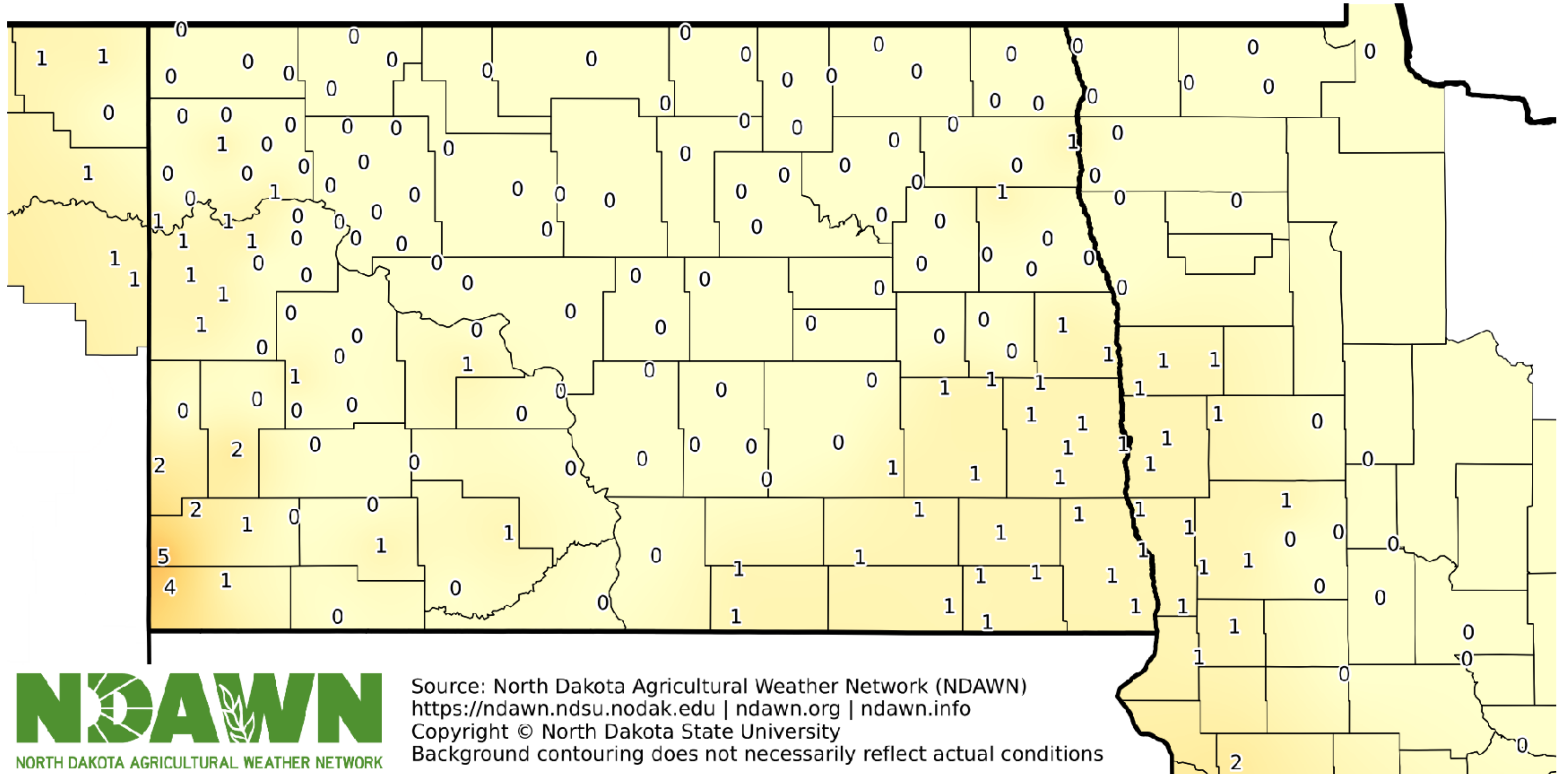


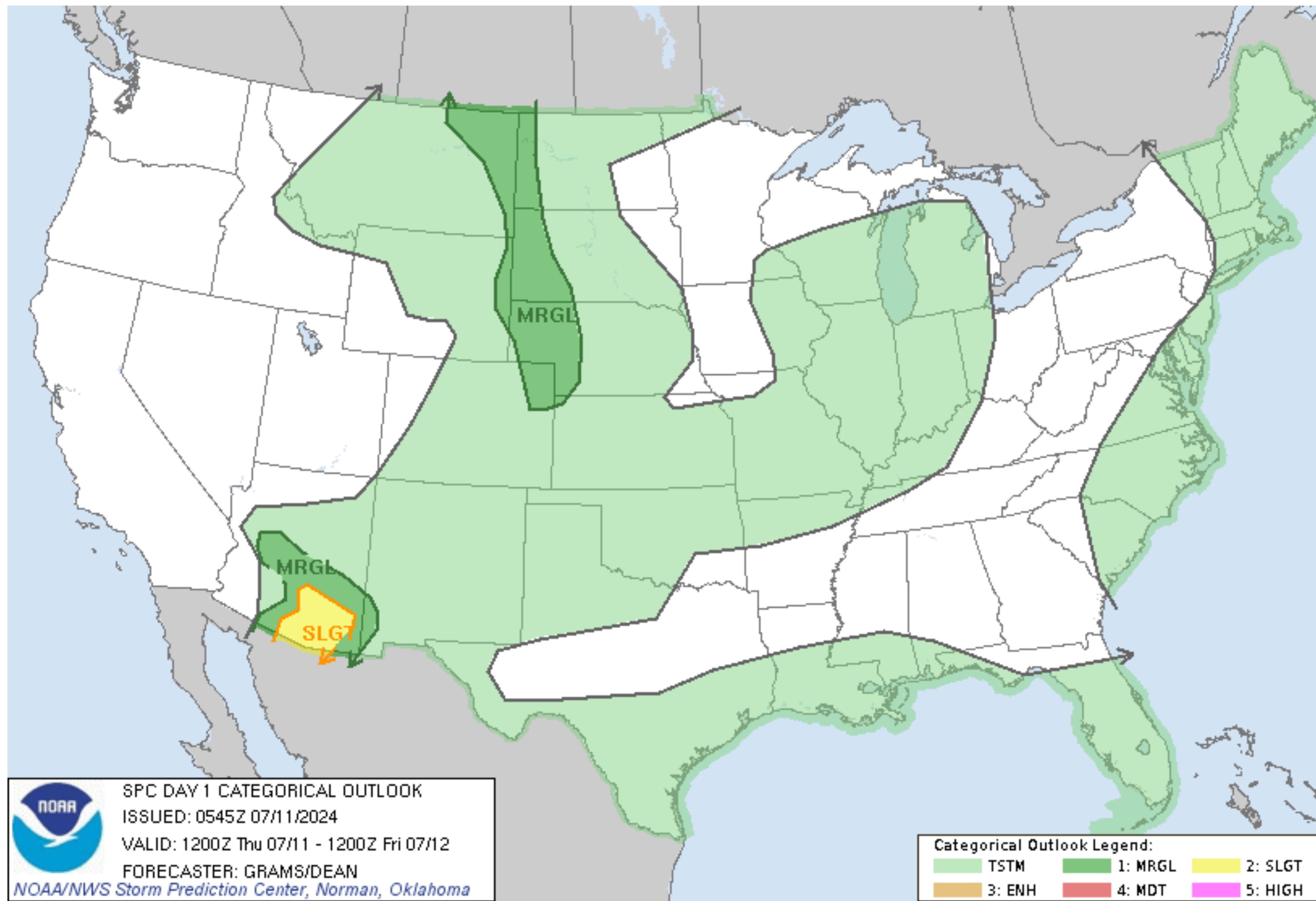
Source: NOAA National Weather Service (NWS)
<https://ndawn.ndsu.nodak.edu> | ndawn.org | ndawn.info
 Copyright © North Dakota State University
 Background contouring does not necessarily reflect actual conditions



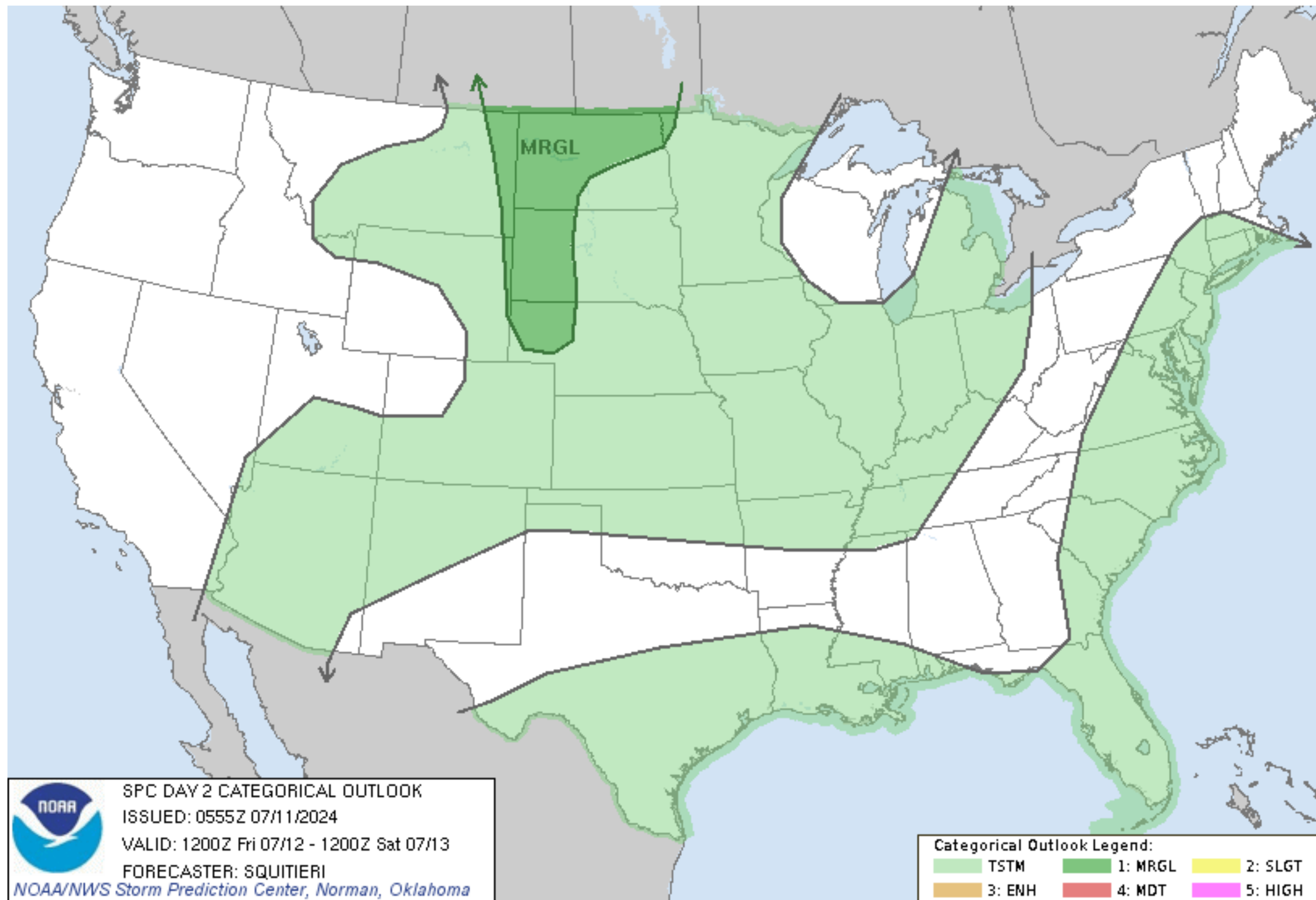
Total Number of Days with Maximum Temperature 90 ° F+

Apr 01 2024 - Jul 10 2024

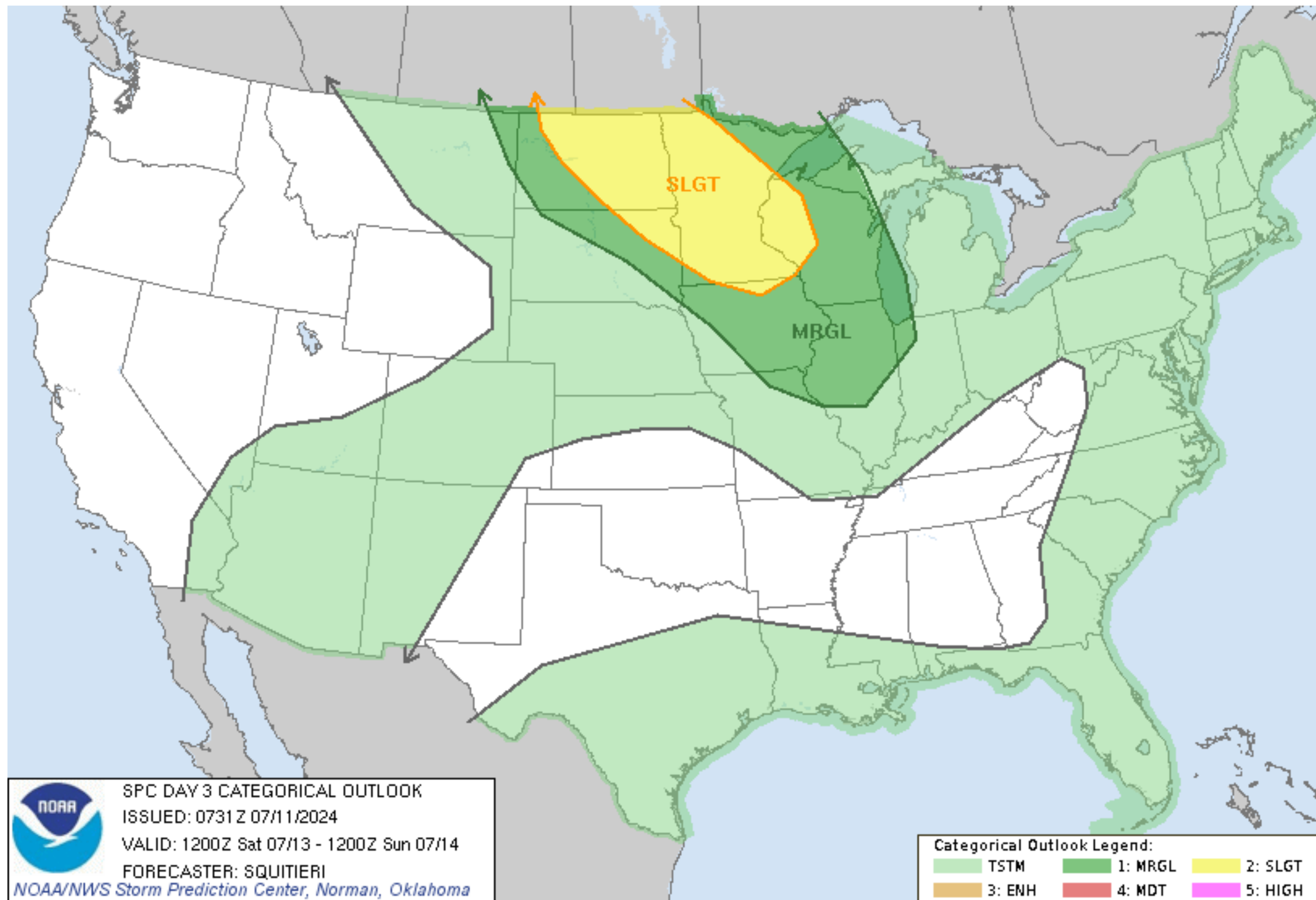




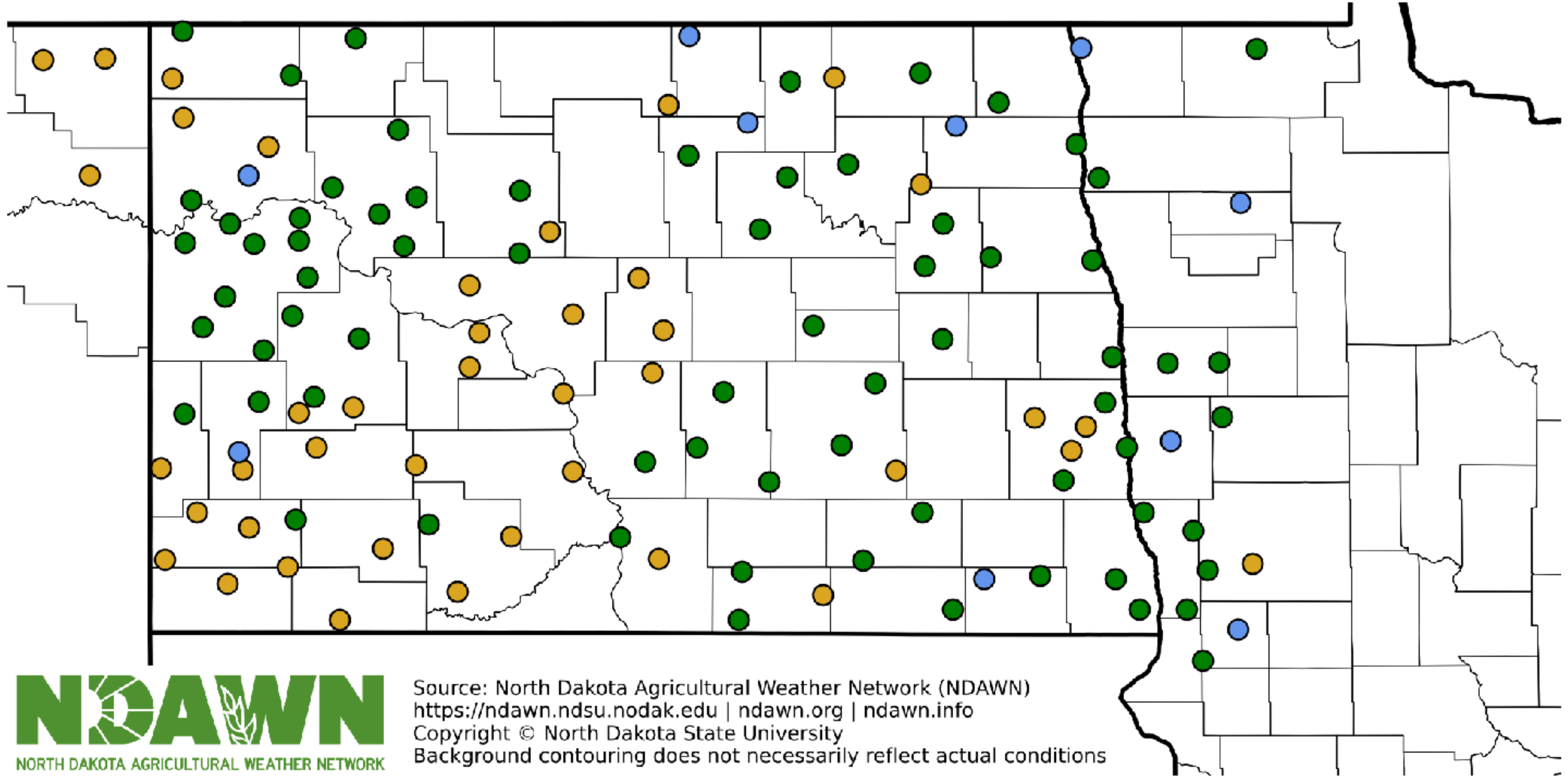
Day 1 Outlook (Today)



Day 2 and 3 Outlook

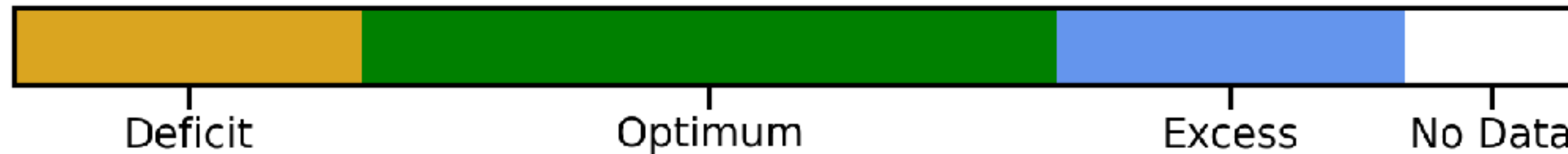


Day 2 and 3 Outlook

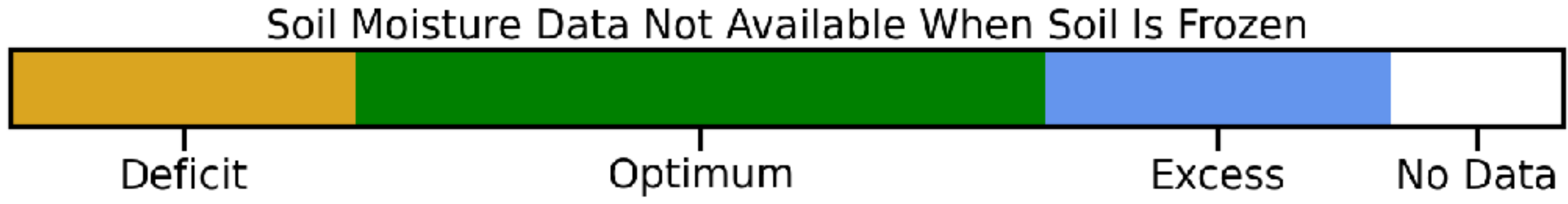
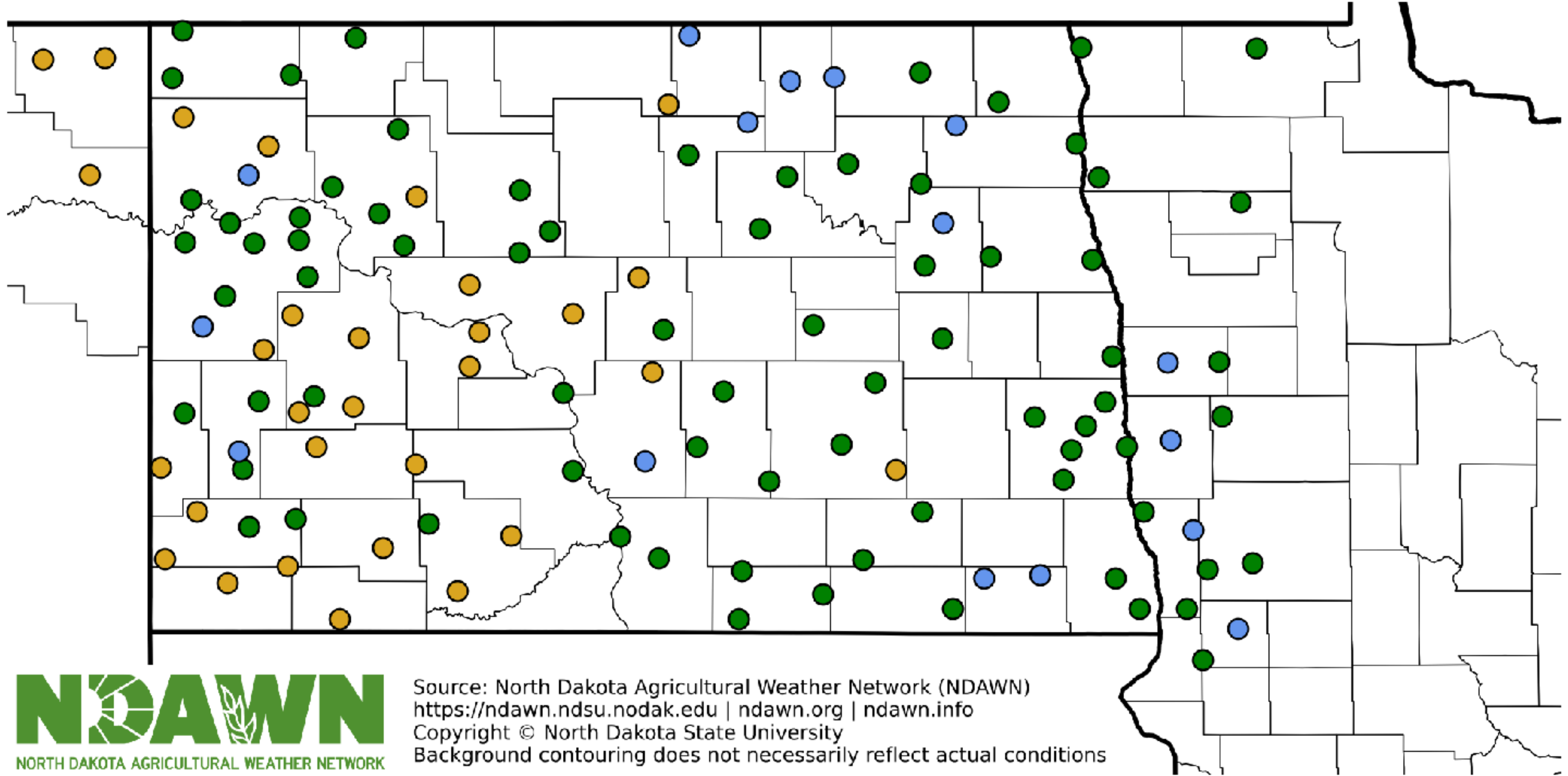


Source: North Dakota Agricultural Weather Network (NDAWN)
<https://ndawn.ndsu.nodak.edu> | ndawn.org | ndawn.info
Copyright © North Dakota State University
Background contouring does not necessarily reflect actual conditions

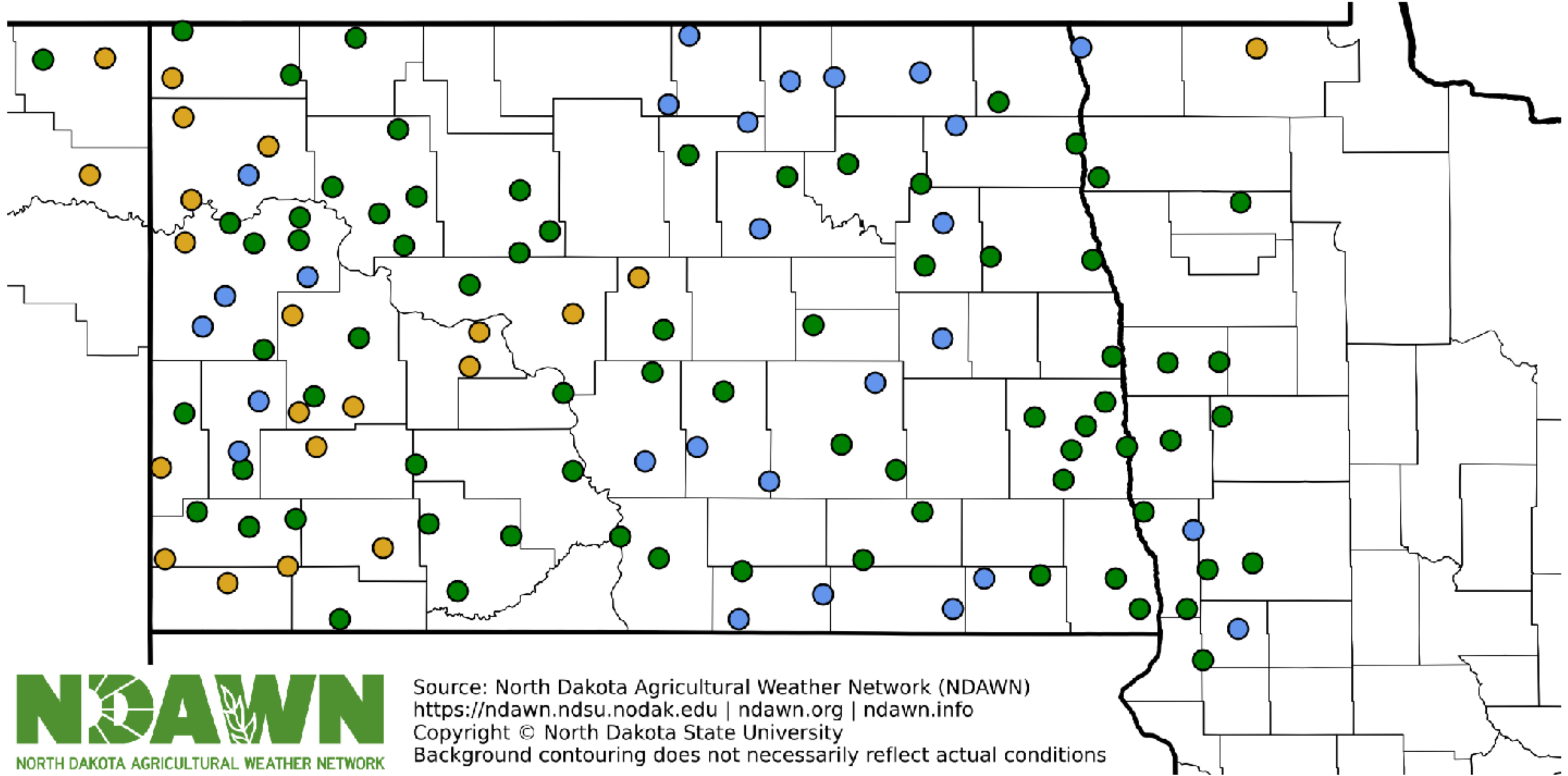
Soil Moisture Data Not Available When Soil Is Frozen



Soil Water at 2 inches

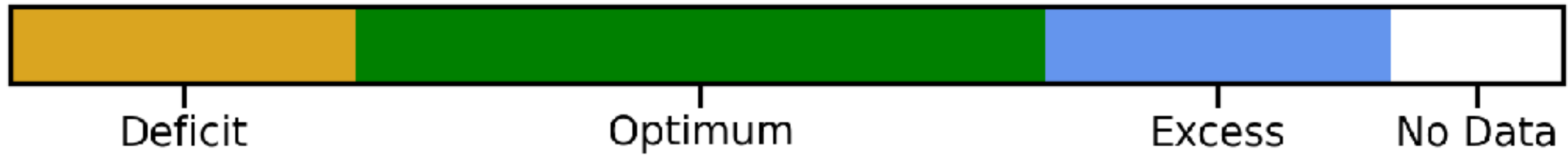


Soil Water at 4 inches

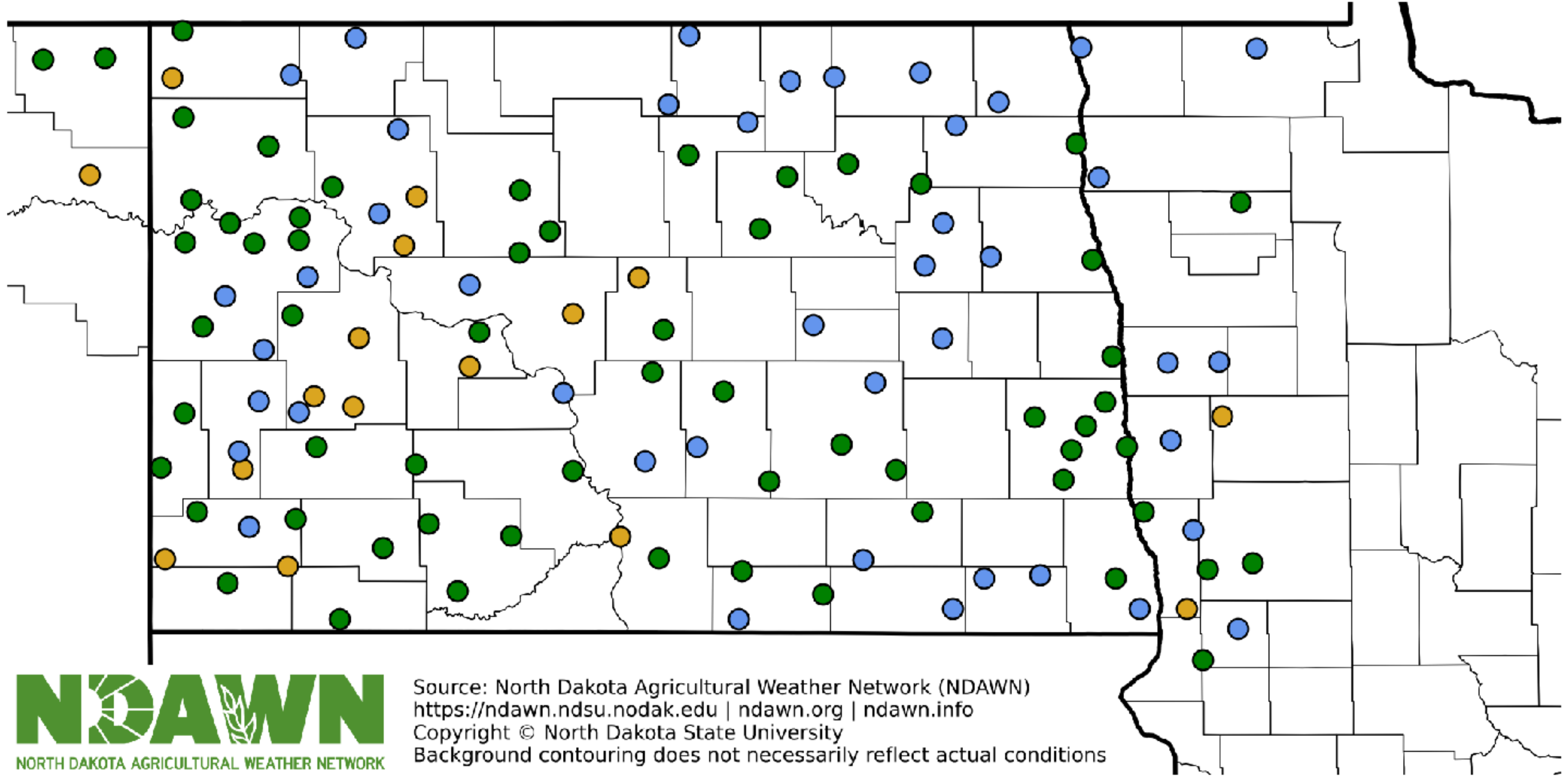


Source: North Dakota Agricultural Weather Network (NDAWN)
<https://ndawn.ndsu.nodak.edu> | ndawn.org | ndawn.info
Copyright © North Dakota State University
Background contouring does not necessarily reflect actual conditions

Soil Moisture Data Not Available When Soil Is Frozen

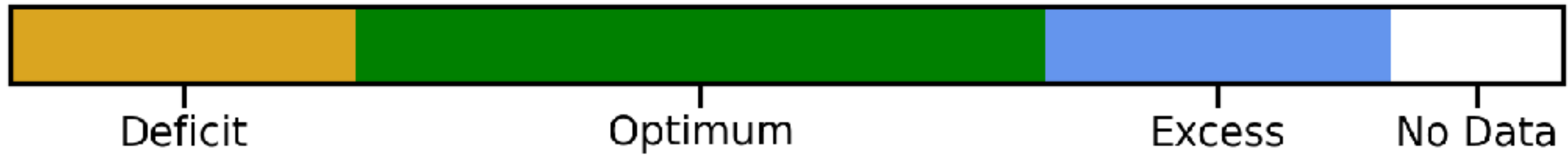


Soil Water at 8 inches

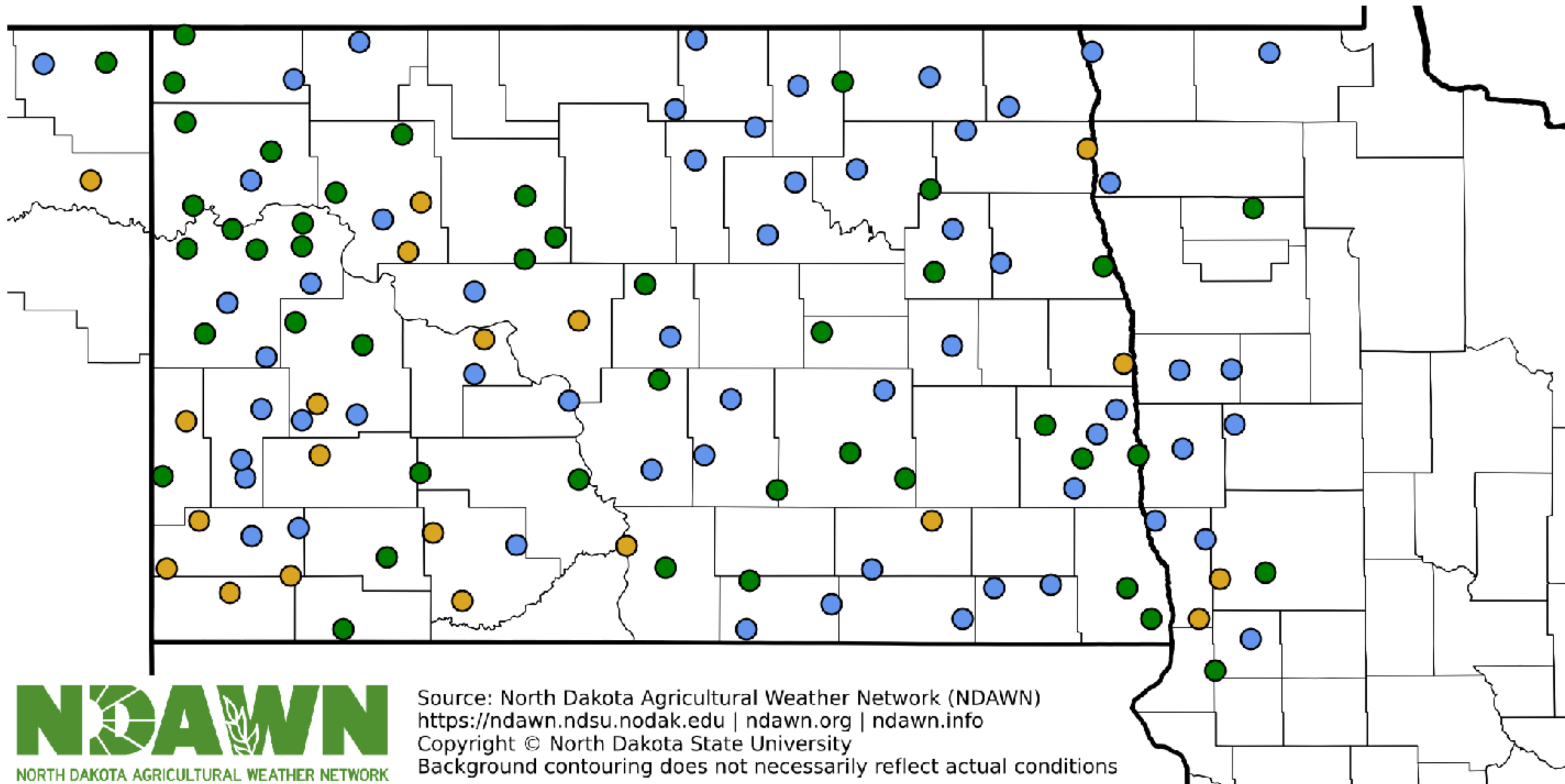


Source: North Dakota Agricultural Weather Network (NDAWN)
<https://ndawn.ndsu.nodak.edu> | ndawn.org | ndawn.info
Copyright © North Dakota State University
Background contouring does not necessarily reflect actual conditions

Soil Moisture Data Not Available When Soil Is Frozen

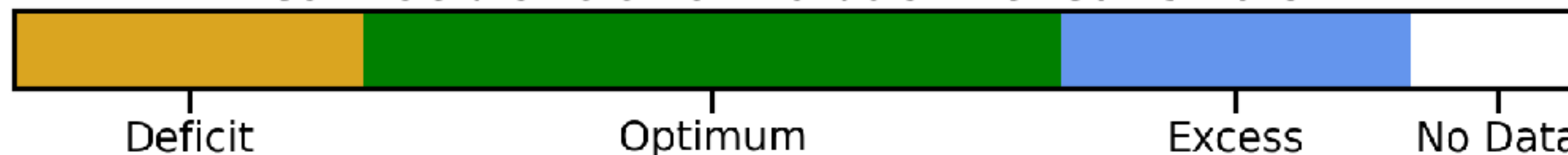


Soil Water at 20 inches



Source: North Dakota Agricultural Weather Network (NDAWN)
<https://ndawn.ndsu.nodak.edu> | ndawn.org | ndawn.info
Copyright © North Dakota State University
Background contouring does not necessarily reflect actual conditions

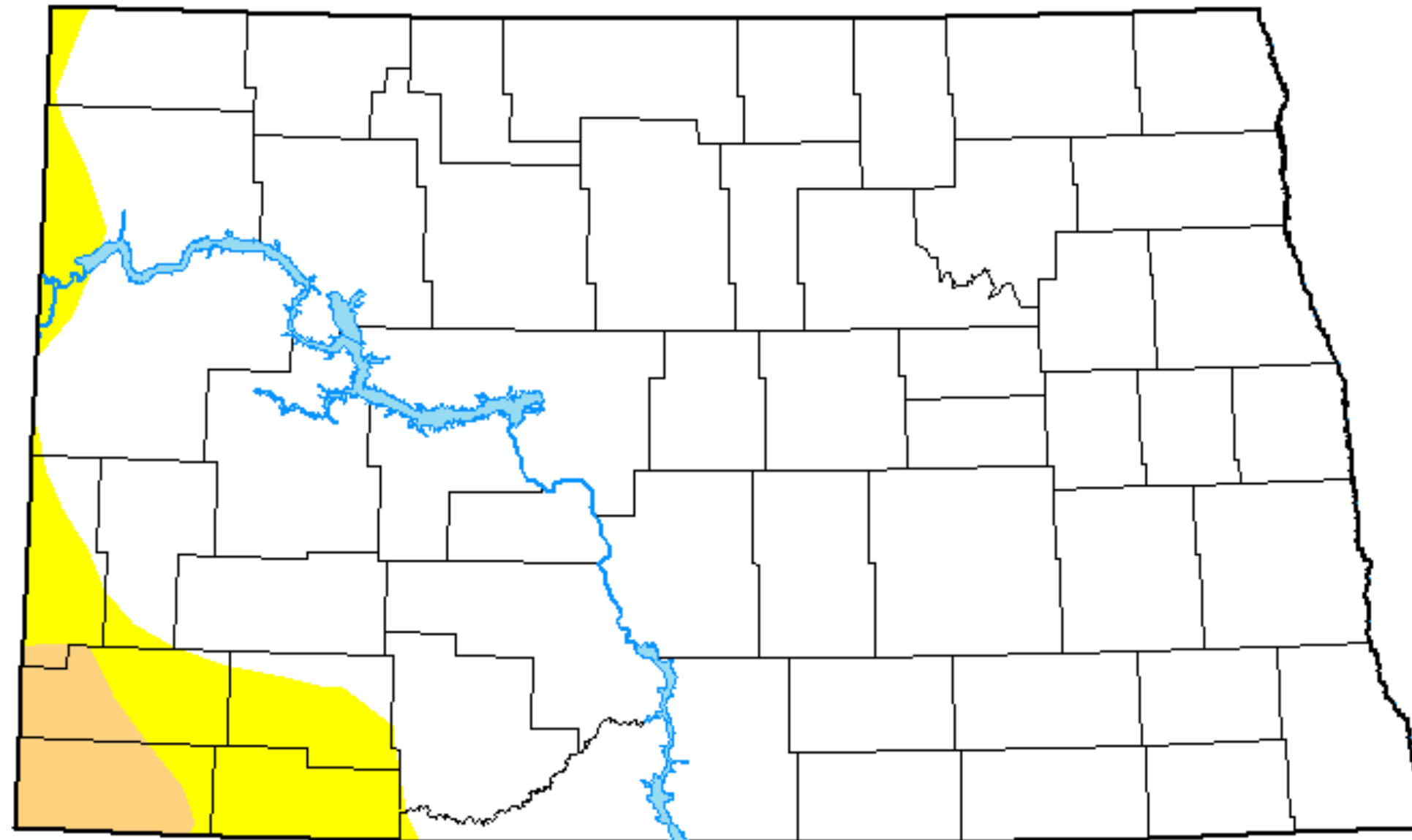
Soil Moisture Data Not Available When Soil Is Frozen









Soil Water at 40 inches

U.S. Drought Monitor North Dakota

July 9, 2024
(Released Thursday, Jul. 11, 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>

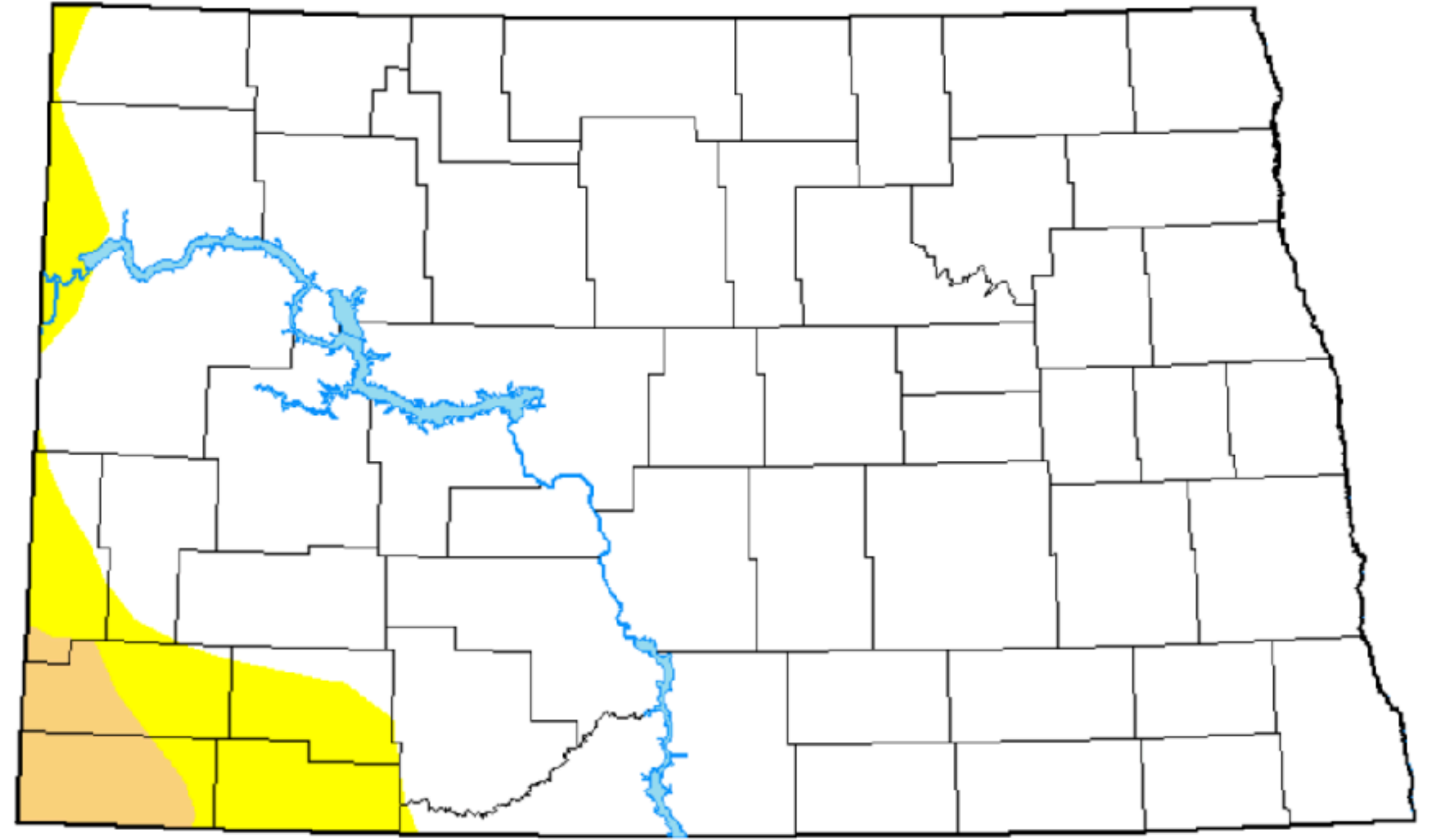
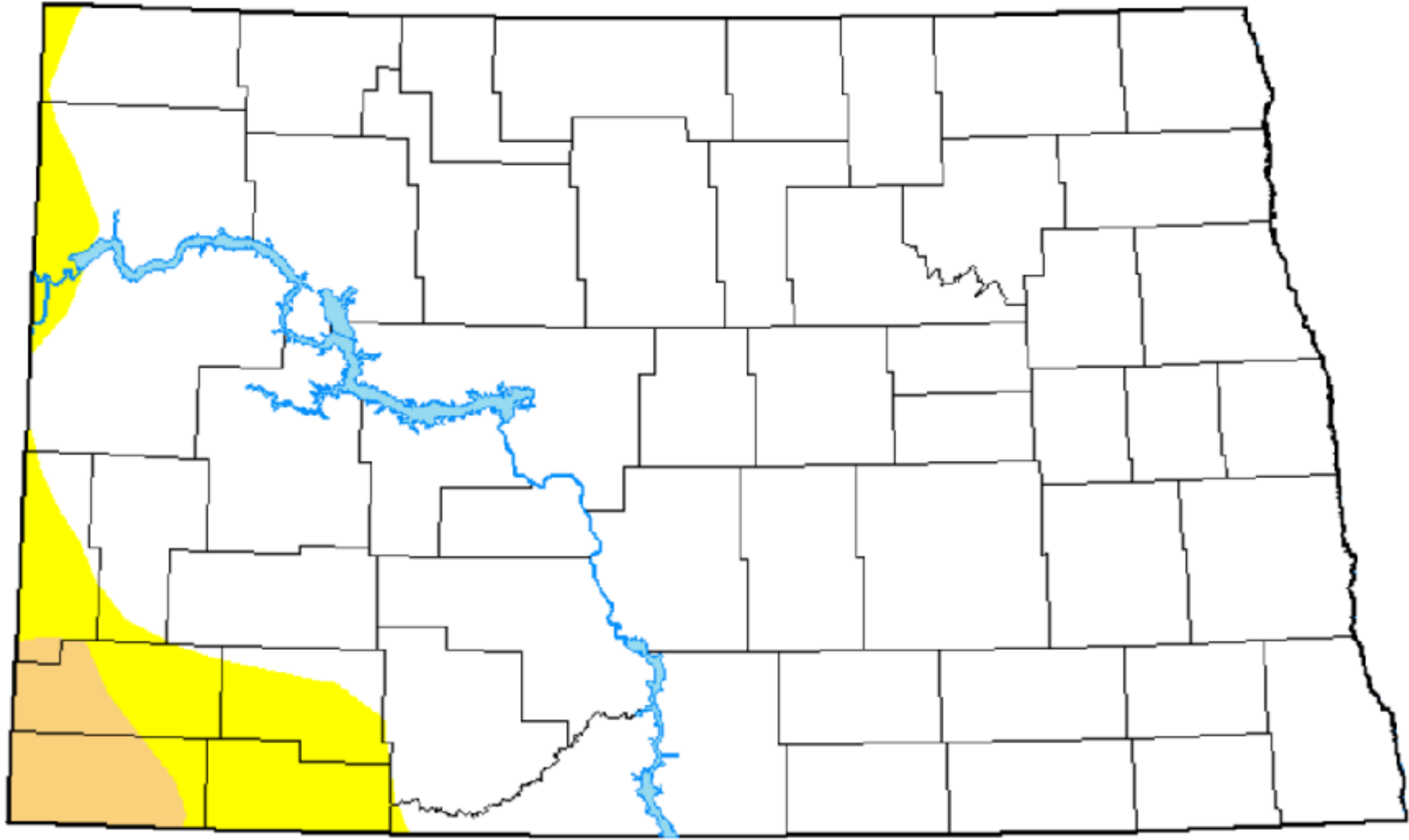
Author:

Brian Fuchs
National Drought Mitigation Center



droughtmonitor.unl.edu

Current Drought Monitor



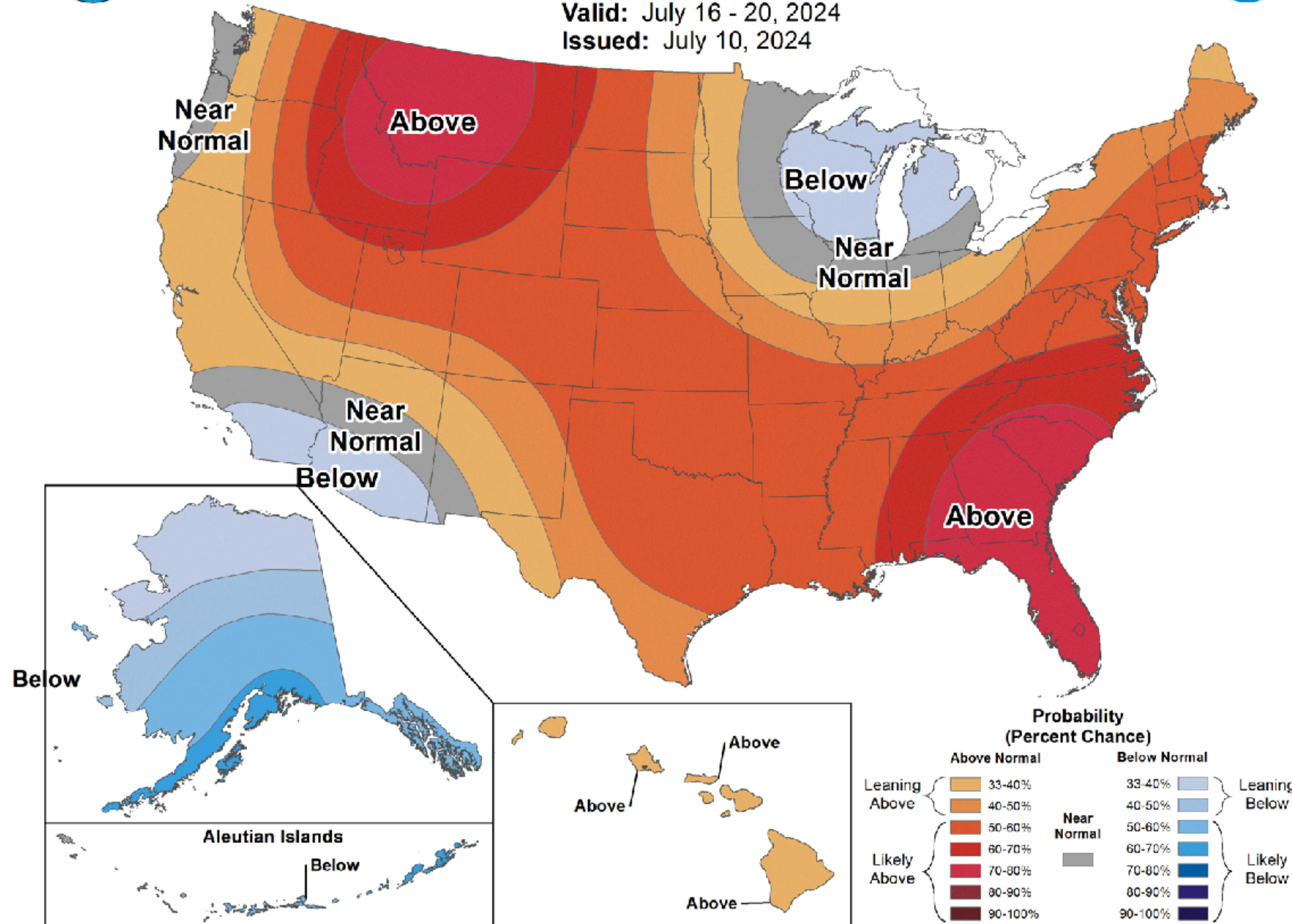
Two Week Comparison (No Change)



6-10 Day Temperature Outlook



Valid: July 16 - 20, 2024
Issued: July 10, 2024



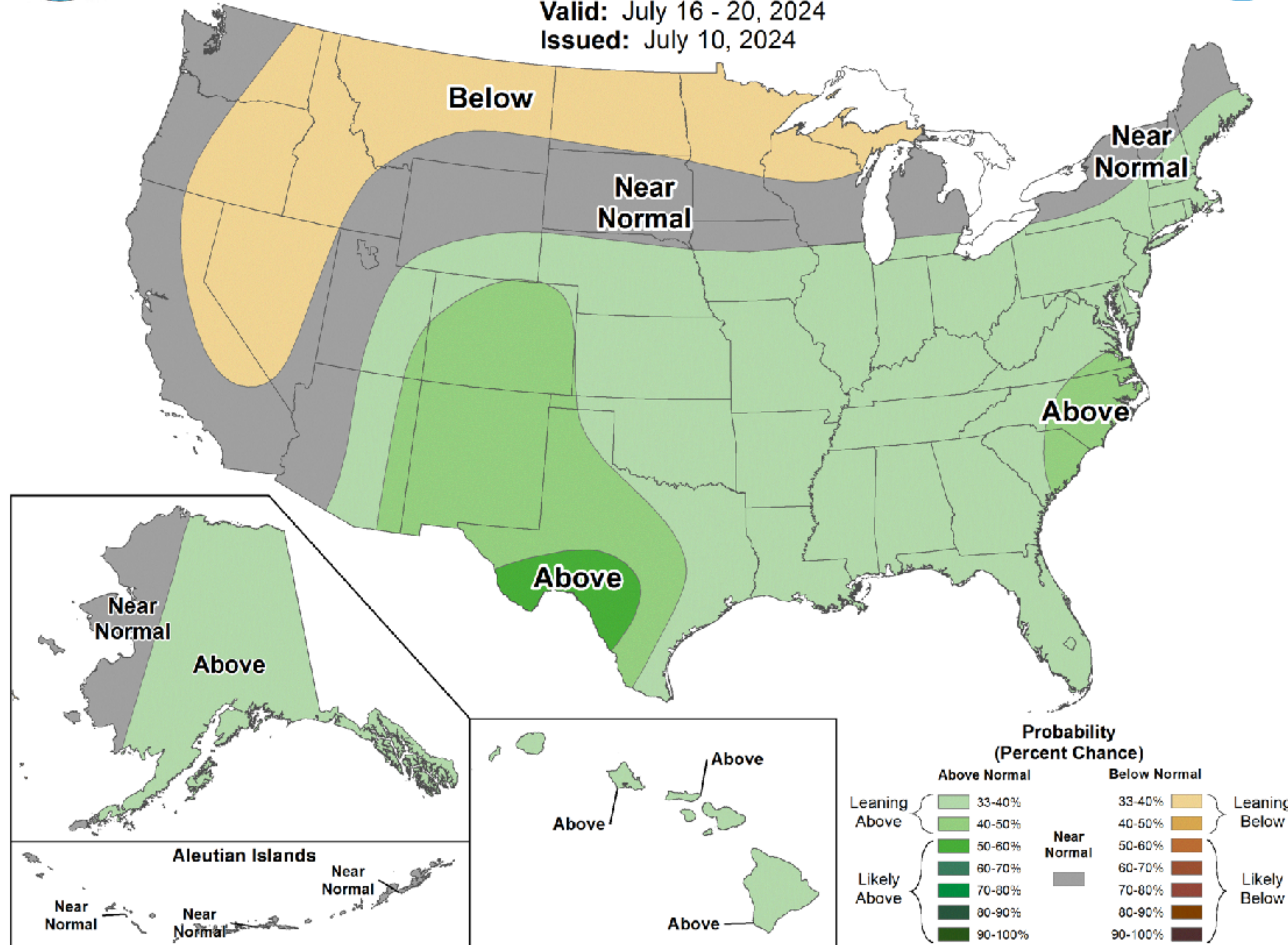
6-10 Day Outlook



6-10 Day Precipitation Outlook



Valid: July 16 - 20, 2024
Issued: July 10, 2024



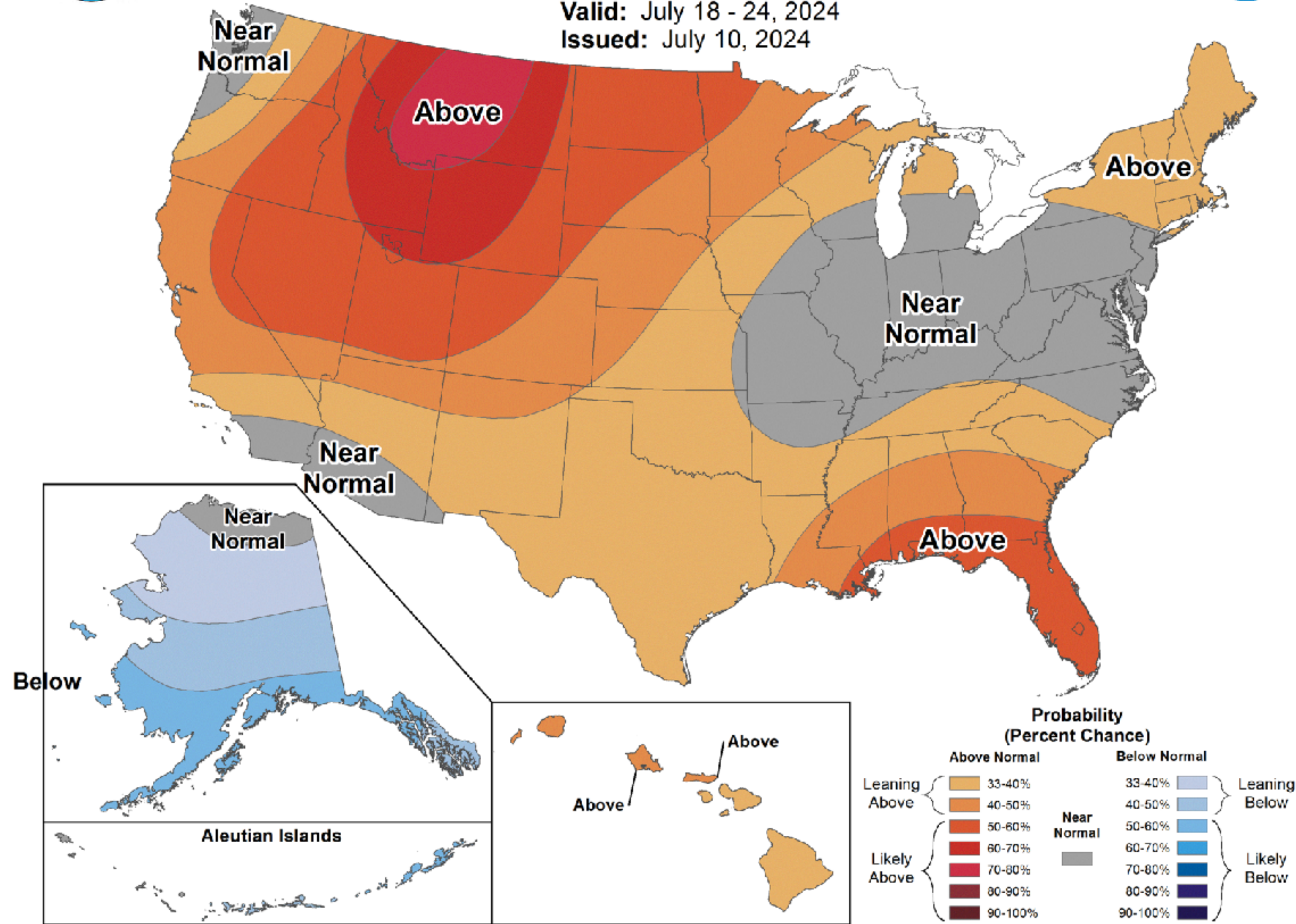
6-10 Day Outlook



8-14 Day Temperature Outlook



Valid: July 18 - 24, 2024
Issued: July 10, 2024



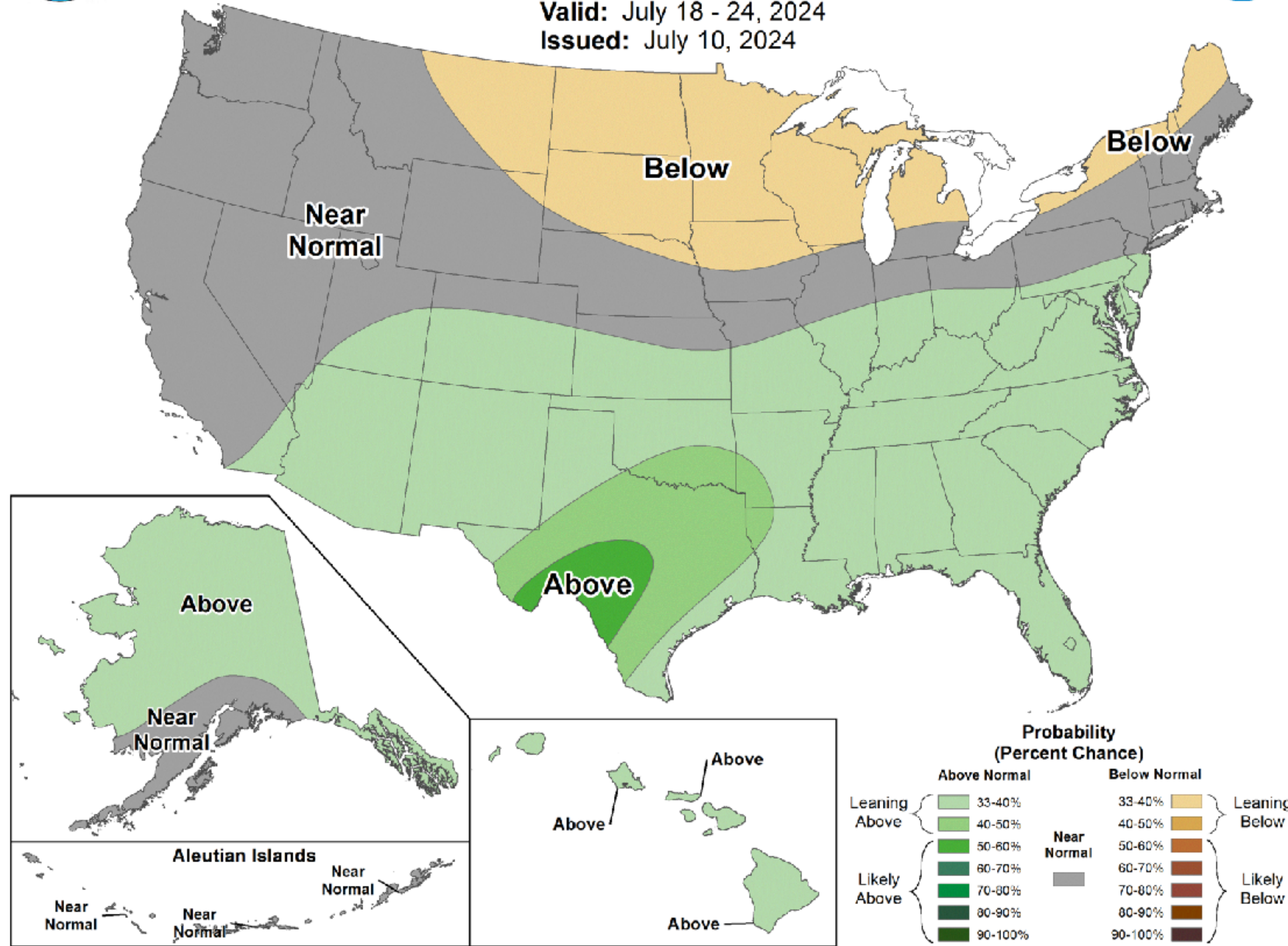
8-14 Day Outlook



8-14 Day Precipitation Outlook



Valid: July 18 - 24, 2024
Issued: July 10, 2024

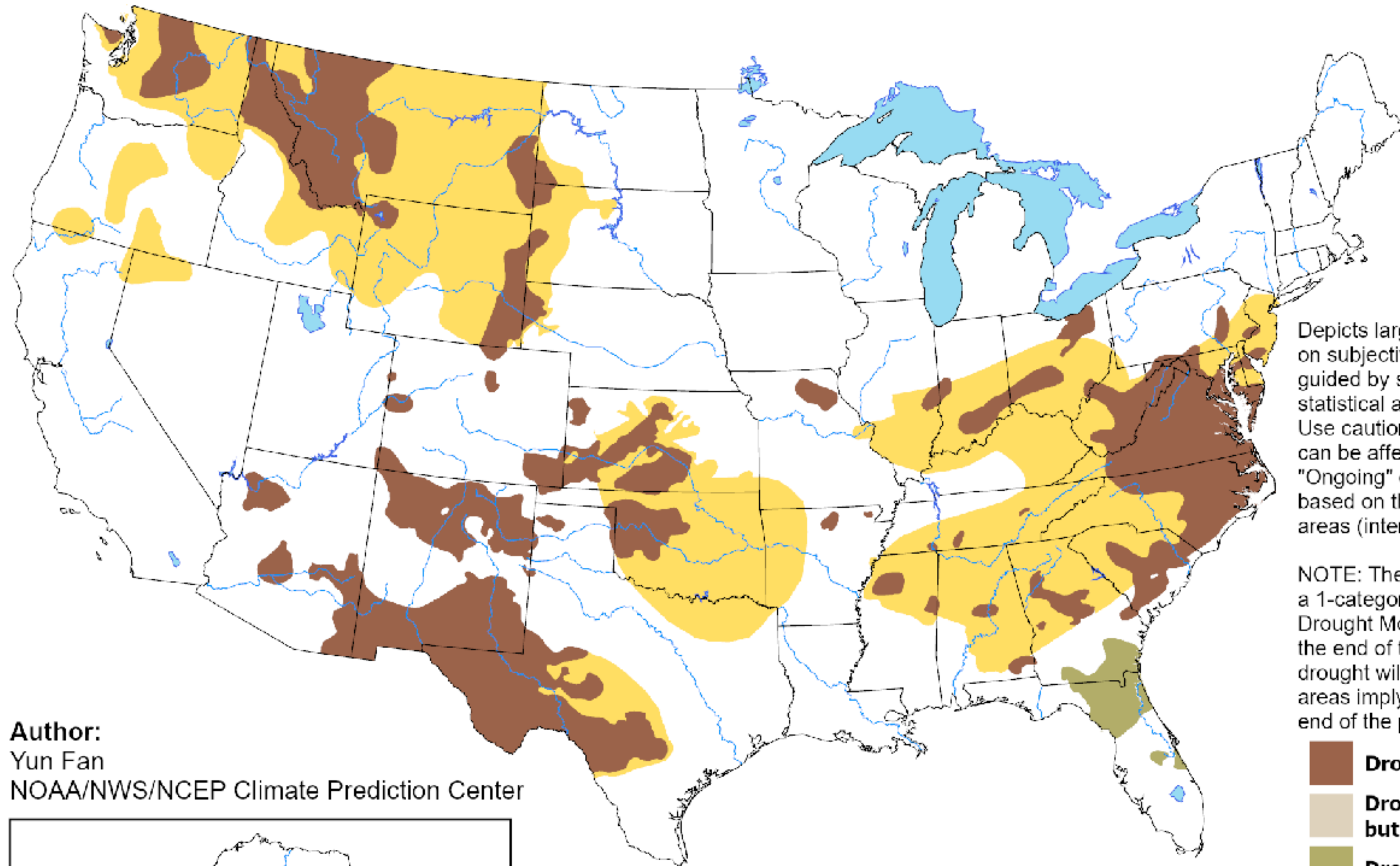


8-14 Day Outlook

U.S. Monthly Drought Outlook

Drought Tendency During the Valid Period

Valid for July 2024
Released June 30, 2024

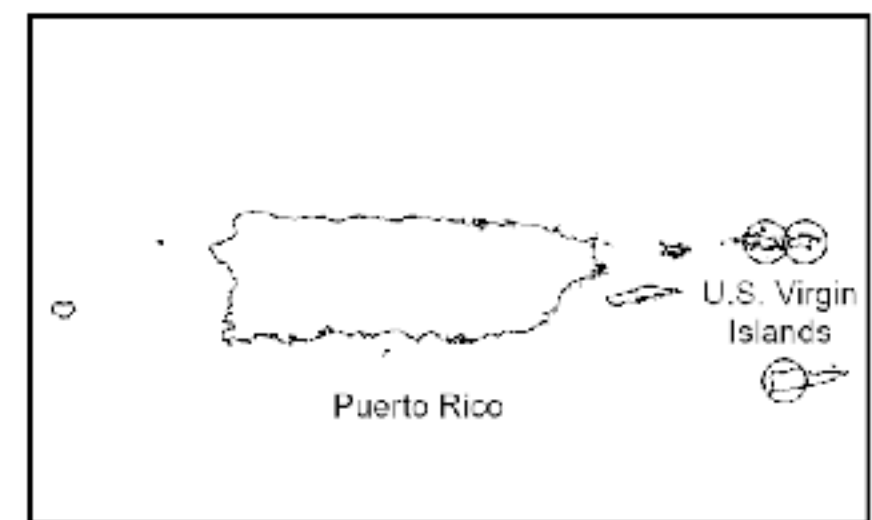
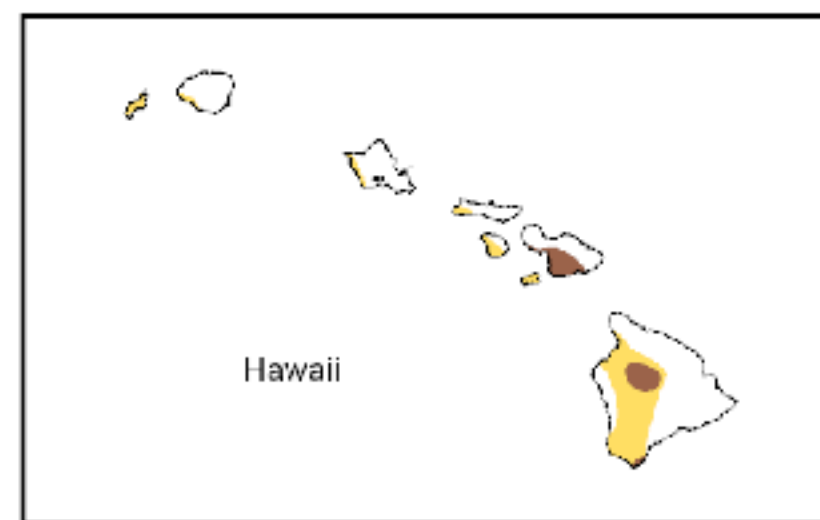
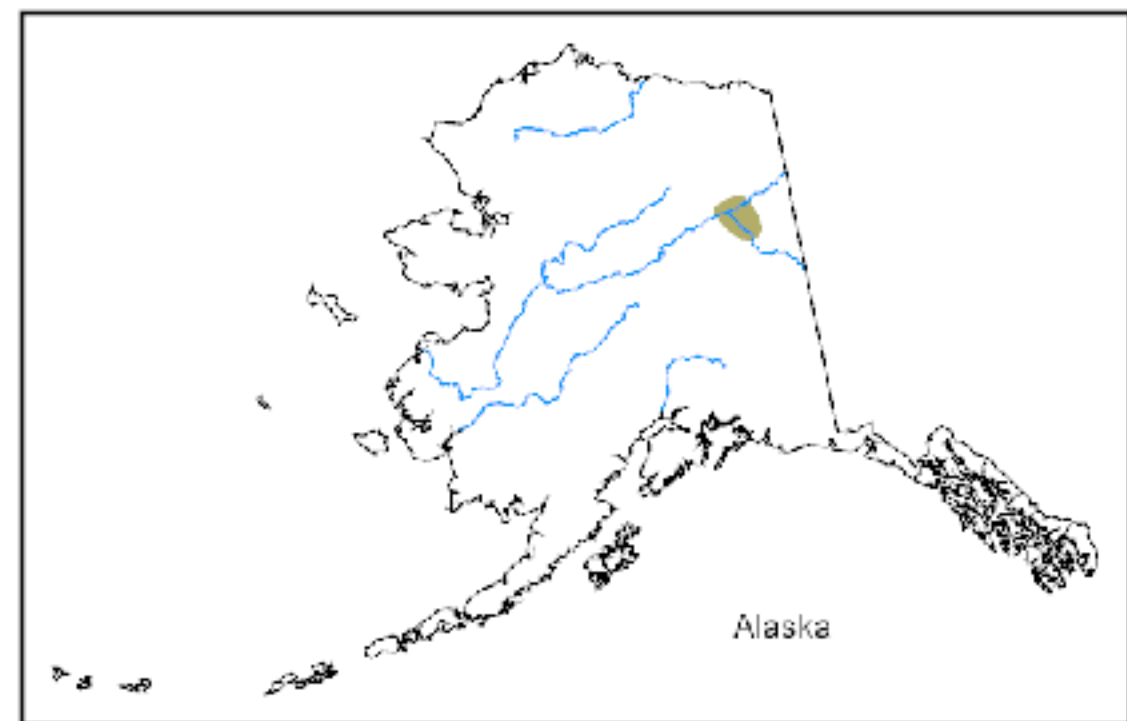


Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to D4).

NOTE: The tan areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period, although drought will remain. The green areas imply drought removal by the end of the period (D0 or none).

Author:
Yun Fan
NOAA/NWS/NCEP Climate Prediction Center

-  **Drought persists**
-  **Drought remains, but improves**
-  **Drought removal likely**
-  **Drought development likely**
-  **No drought**



<https://go.usa.gov/3eZGd>

Summary

Scattered Thunderstorms/Some Severe

Scattered Thunderstorms/Some Severe

Mostly Above Average Temperatures

Scattered Thunderstorms/Some Severe

Mostly Above Average Temperatures

Mostly Below Average Rain

Scattered Thunderstorms/Some Severe

Mostly Above Average Temperatures

Mostly Below Average Rain

Dry Expansion in Western North Dakota?

daryl.ritchison@ndsu.edu