

North Dakota Bi-Weekly Drought Update

Daryl Ritchison, October 17, 2024

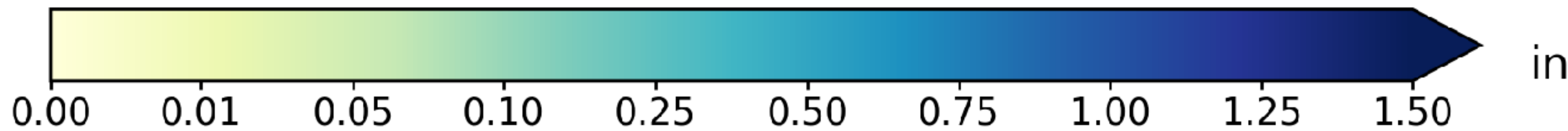
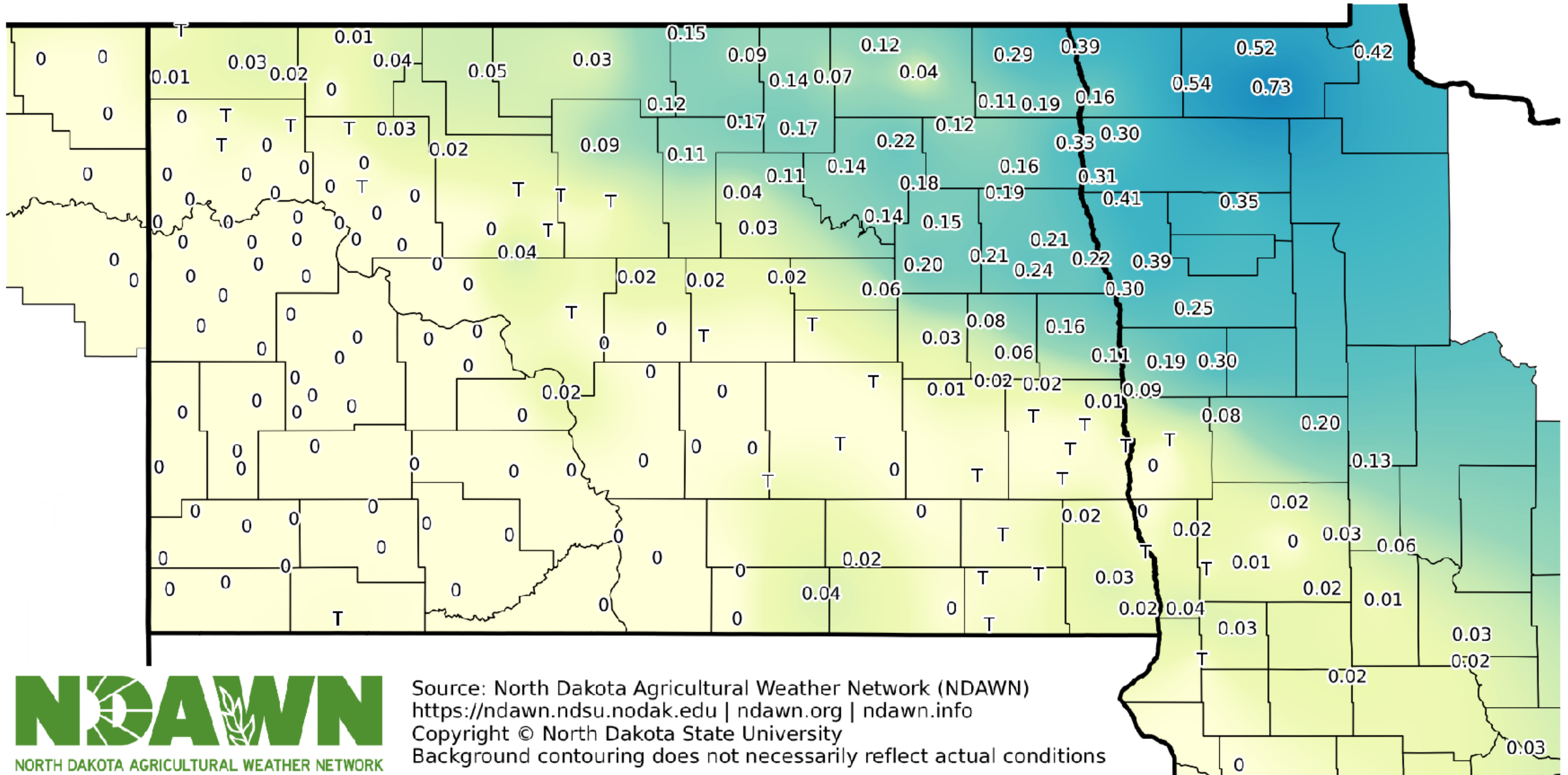
West

NDAWN Pyramid Park

10/13/2024 07:31:04 PM

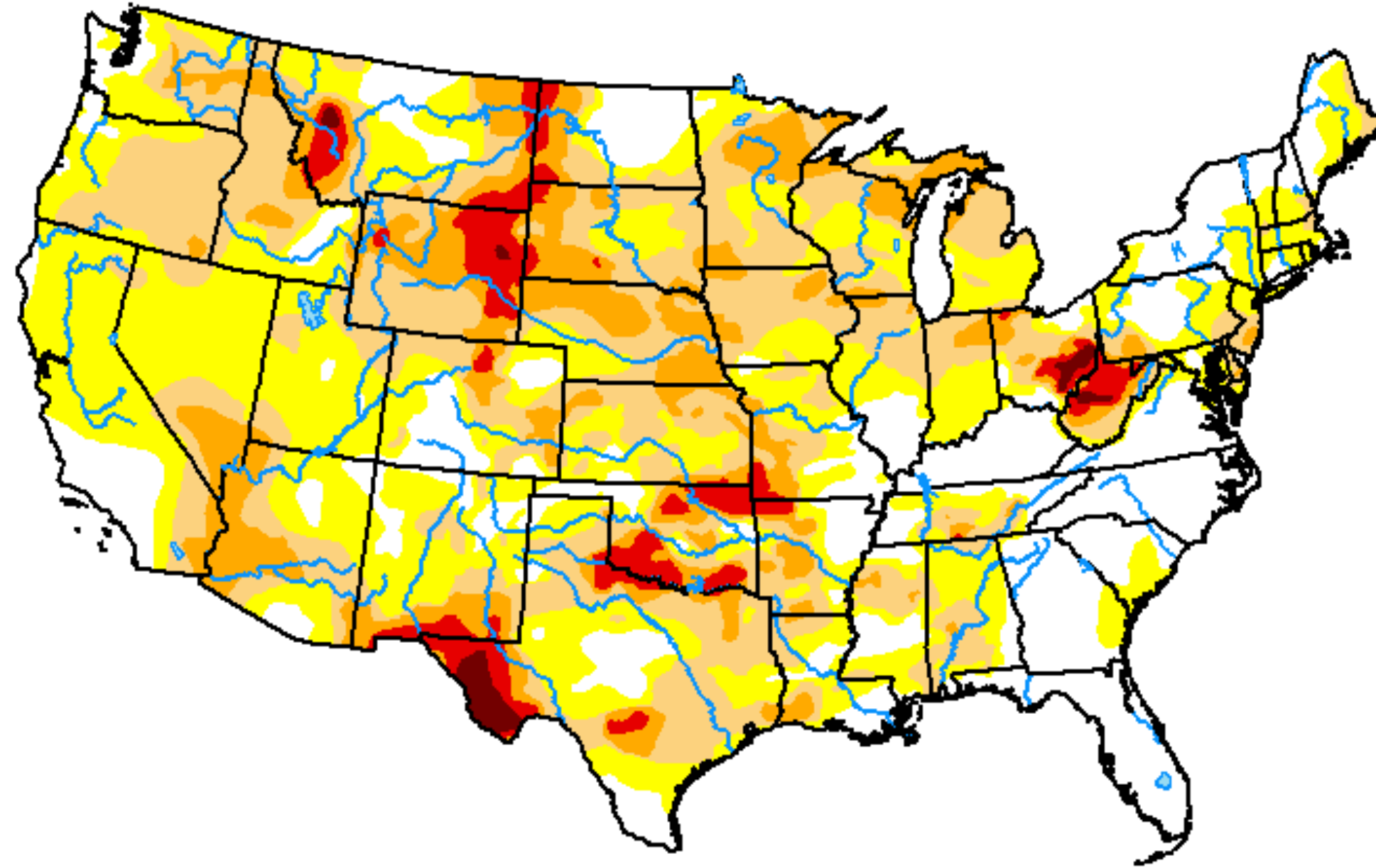
Total Precipitation - Past 14 Days

Oct 16 2024









U.S. Drought Monitor
Contiguous U.S. (CONUS)

October 15, 2024
(Released Thursday, Oct. 17, 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

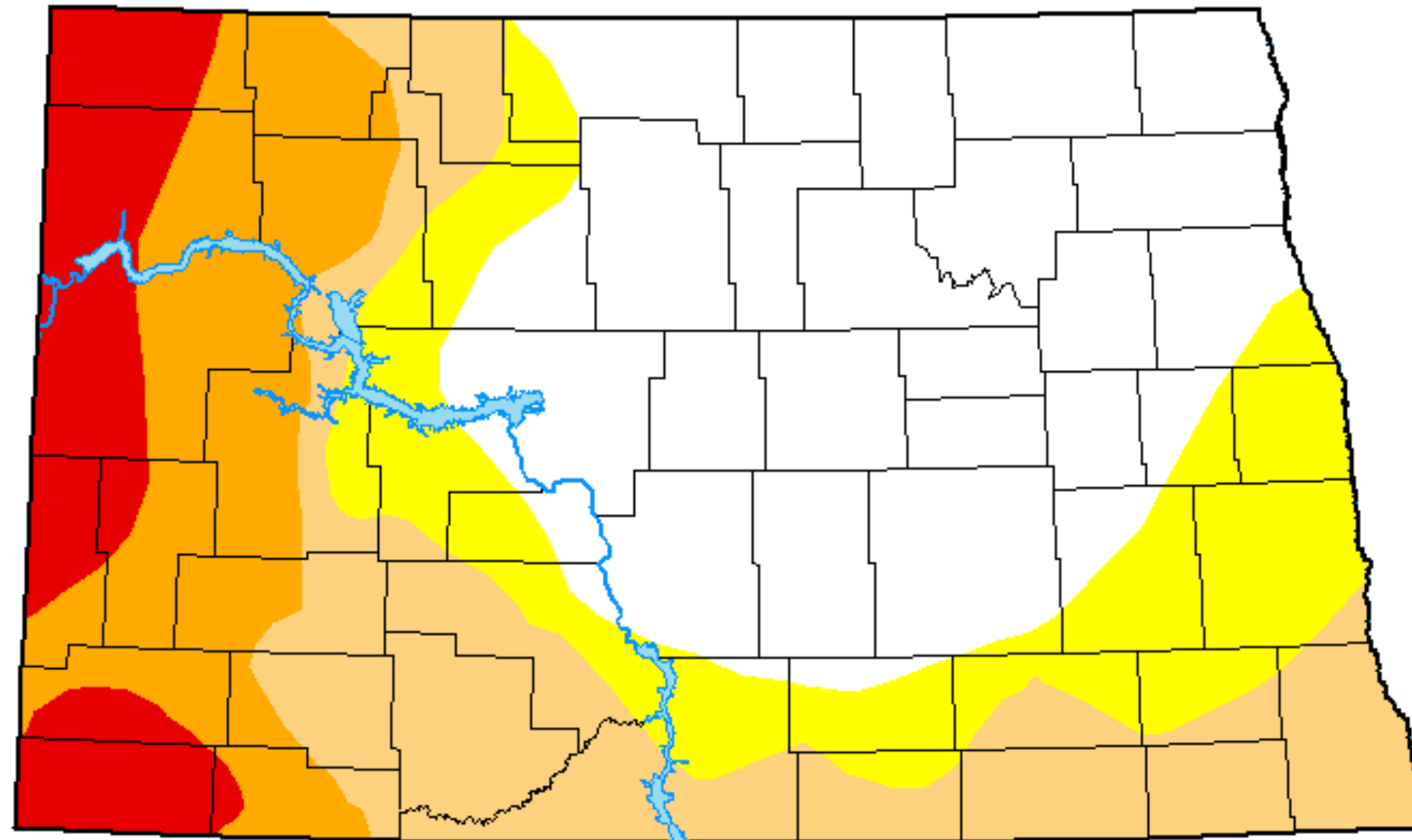


droughtmonitor.unl.edu







Current Drought Monitor

U.S. Drought Monitor North Dakota

October 15, 2024
(Released Thursday, Oct. 17, 2024)
Valid 8 a.m. EDT



Intensity:

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Current Drought Monitor

Drought Classification

None

D0 (Abnormally Dry)

D1 (Moderate Drought)

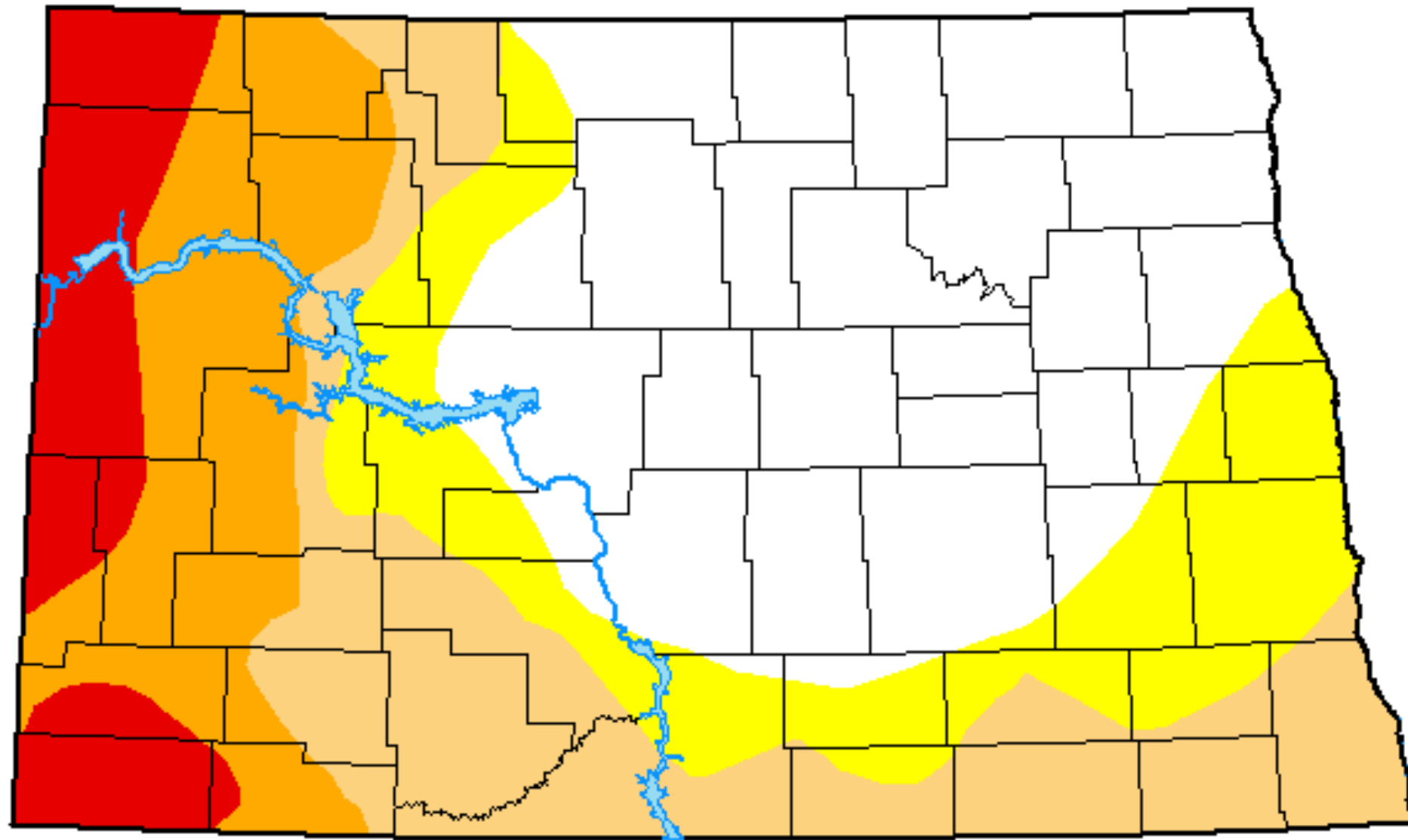
D2 (Severe Drought)

D3 (Extreme Drought)

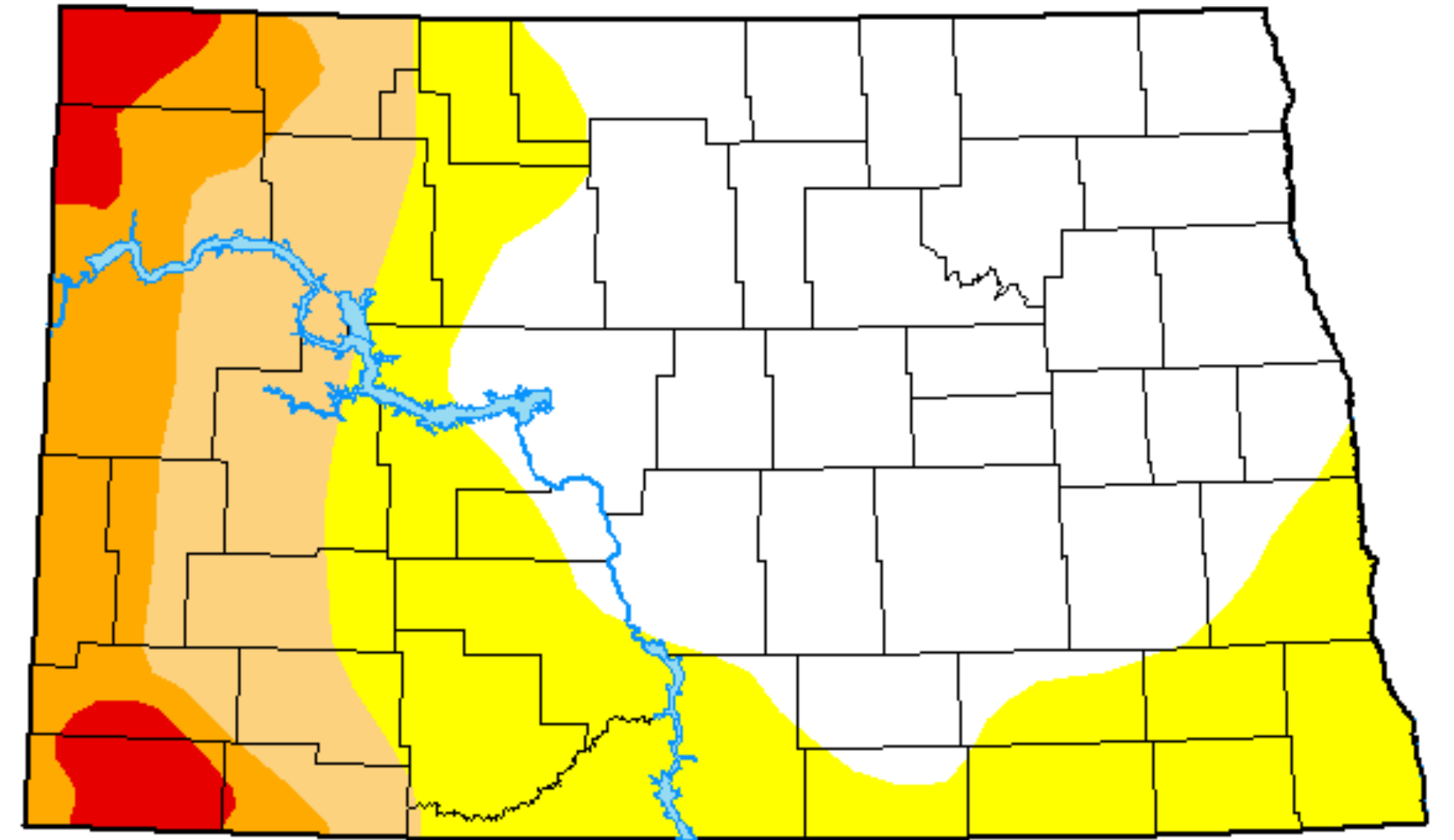
D4 (Exceptional Drought)

No Data

Oct 15



Oct 1

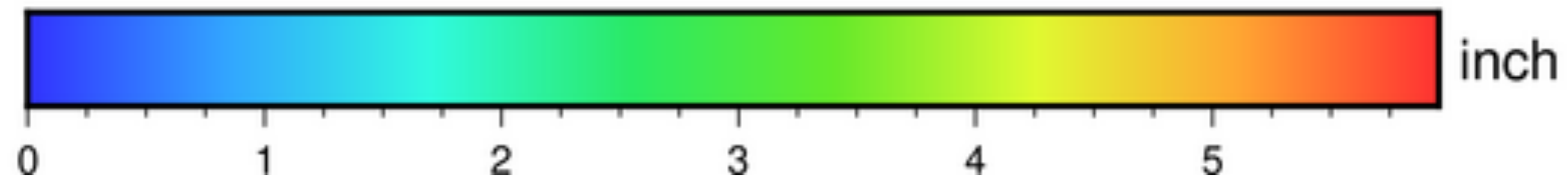
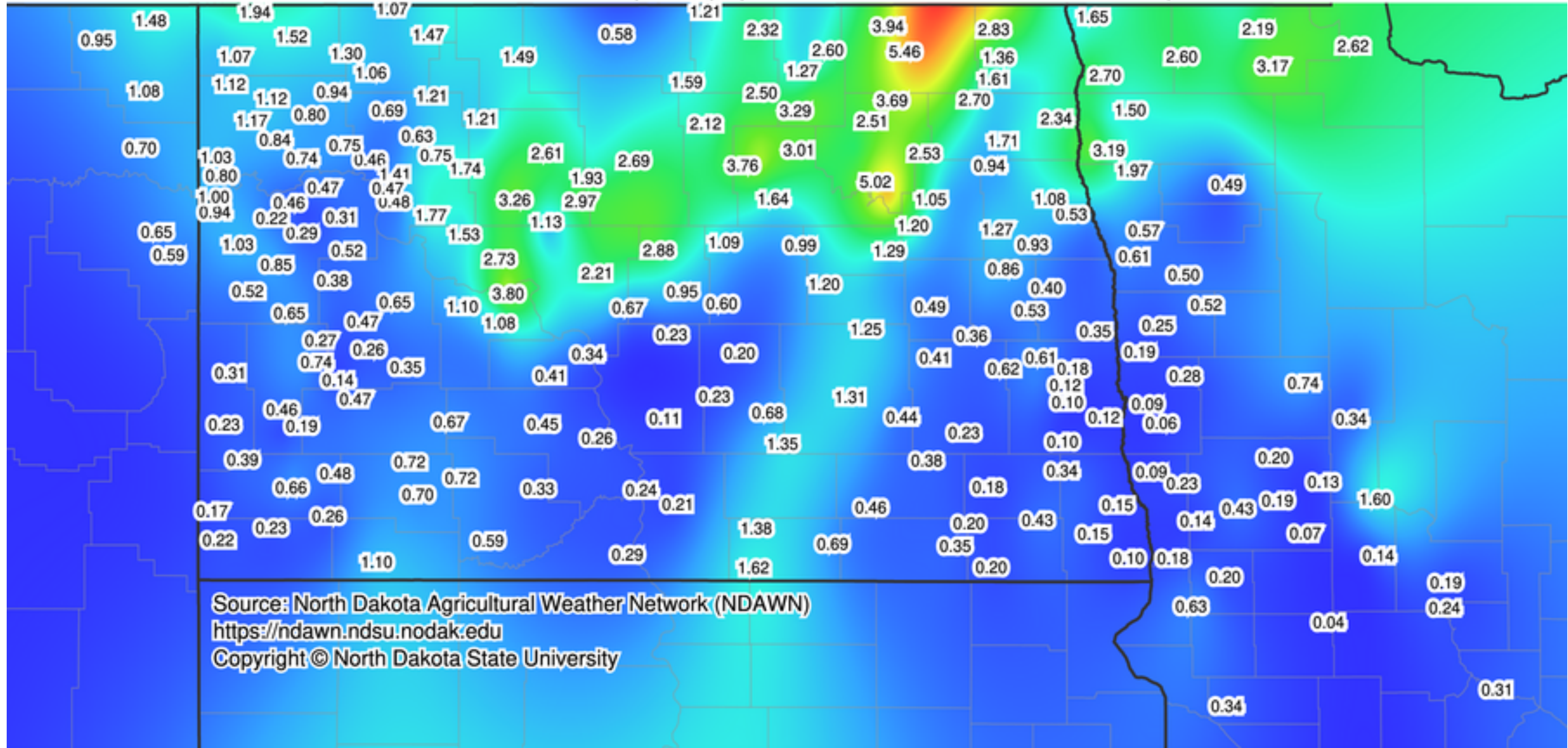


Two Week Comparison

Week	Date	None	D0-D4	D1-D4	D2-D4	D3-D4	D4	DSCI
Current	2024-10-15	41.34	58.66	42.14	22.37	8.81	0.00	132
Last Week to Current	2024-10-08	43.57	56.43	35.99	15.73	8.80	0.00	117
3 Months Ago to Current	2024-07-16	91.50	8.50	2.20	0.00	0.00	0.00	11
Start of Calendar Year to Current	2023-12-26	70.11	29.89	15.72	6.78	0.00	0.00	52
Start of Water Year to Current	2024-10-01	47.89	52.11	25.17	12.68	3.39	0.00	93
One Year Ago to Current	2023-10-17	56.96	43.04	24.42	14.00	0.00	0.00	81

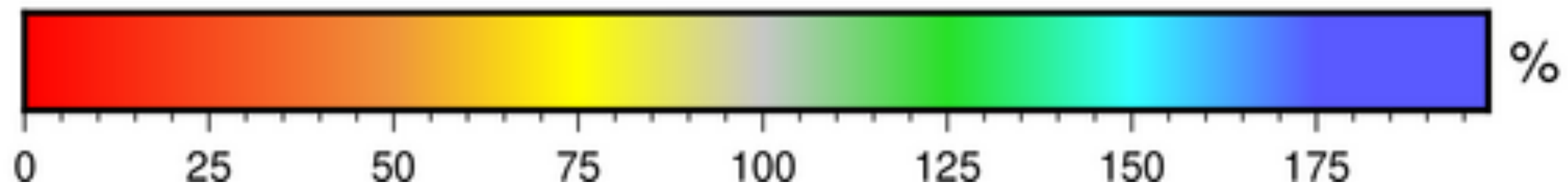
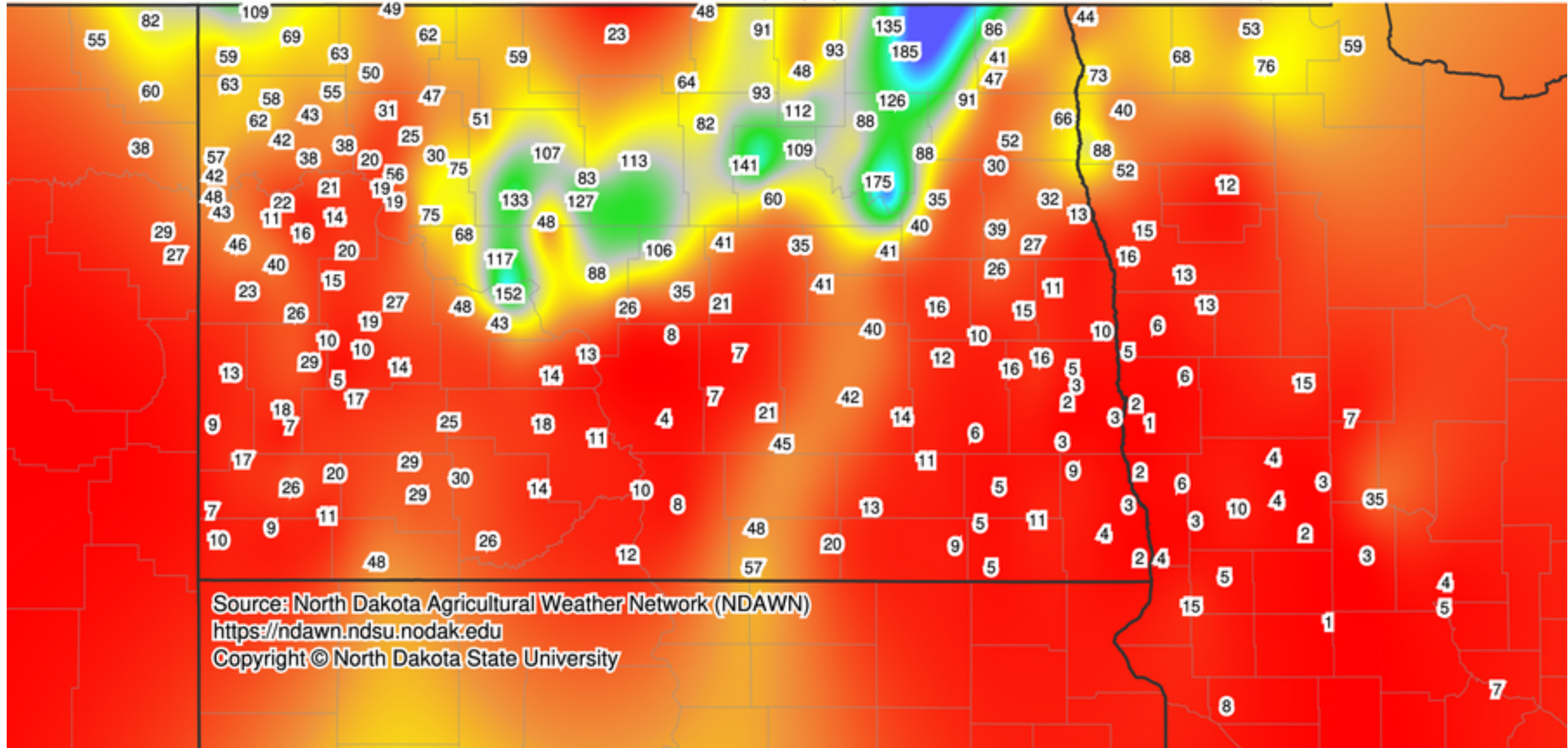
Estimated Population in Drought Areas: **158,818**

Total Rainfall (inch) (2024-09-01 - 2024-10-16)



September 1 through October 16

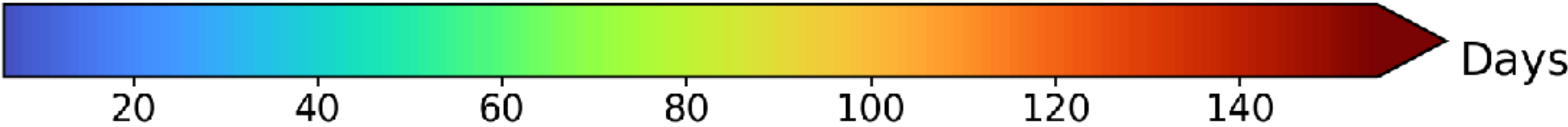
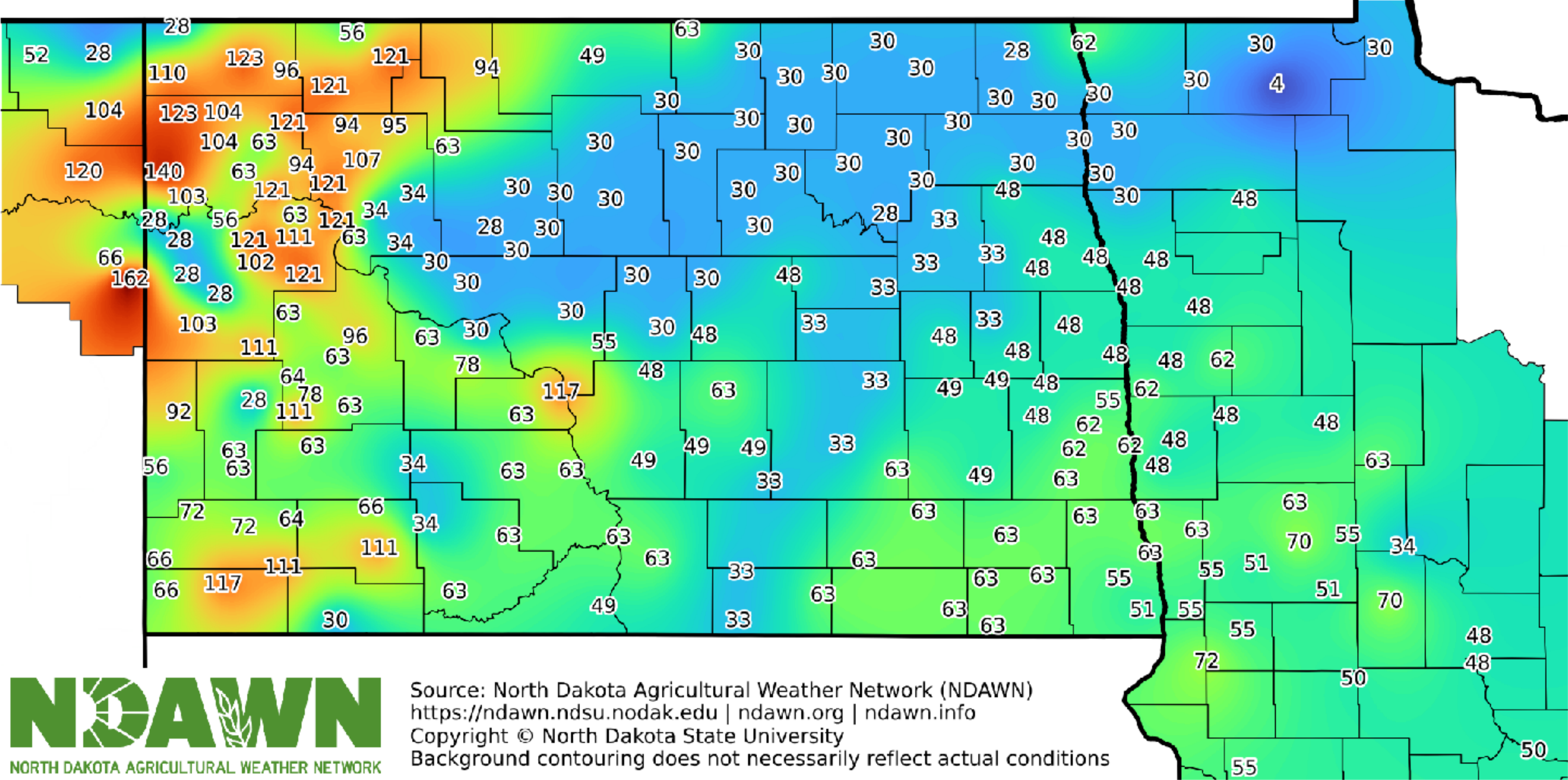
Percent of Normal Rainfall (%) (2024-09-01 - 2024-10-16)



September 1 through October 16

Consecutive Days with Less Than .50 inch Precipitation

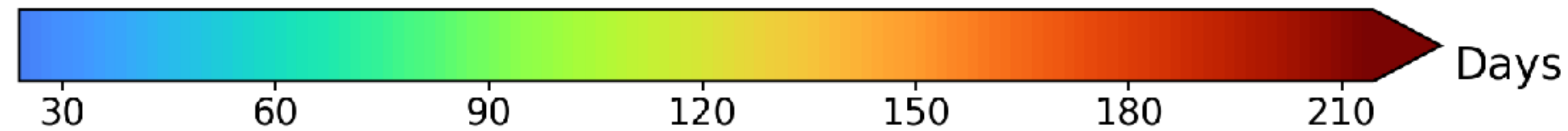
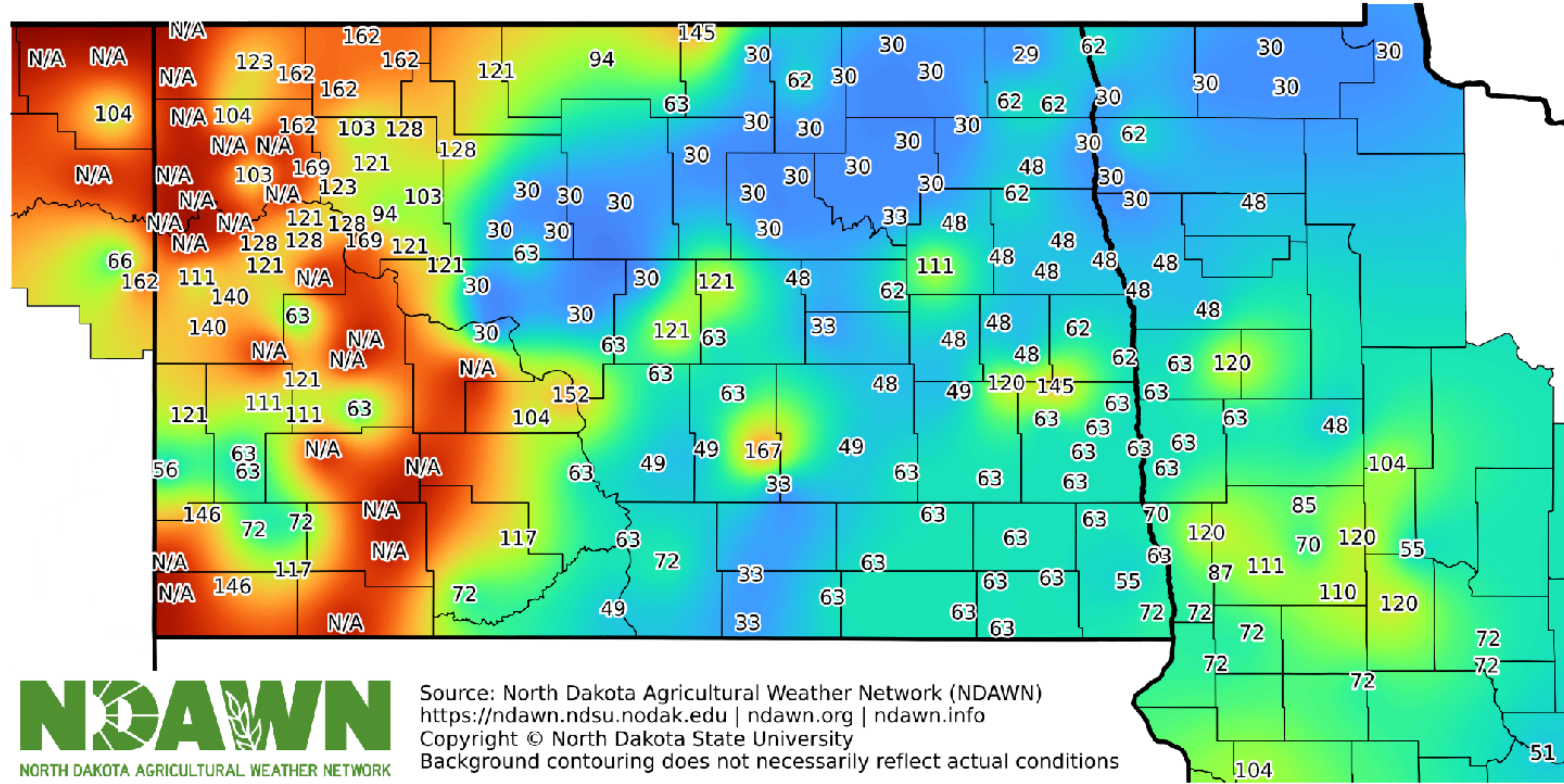
Oct 16 2024



Days since last 0.50 inch daily rain

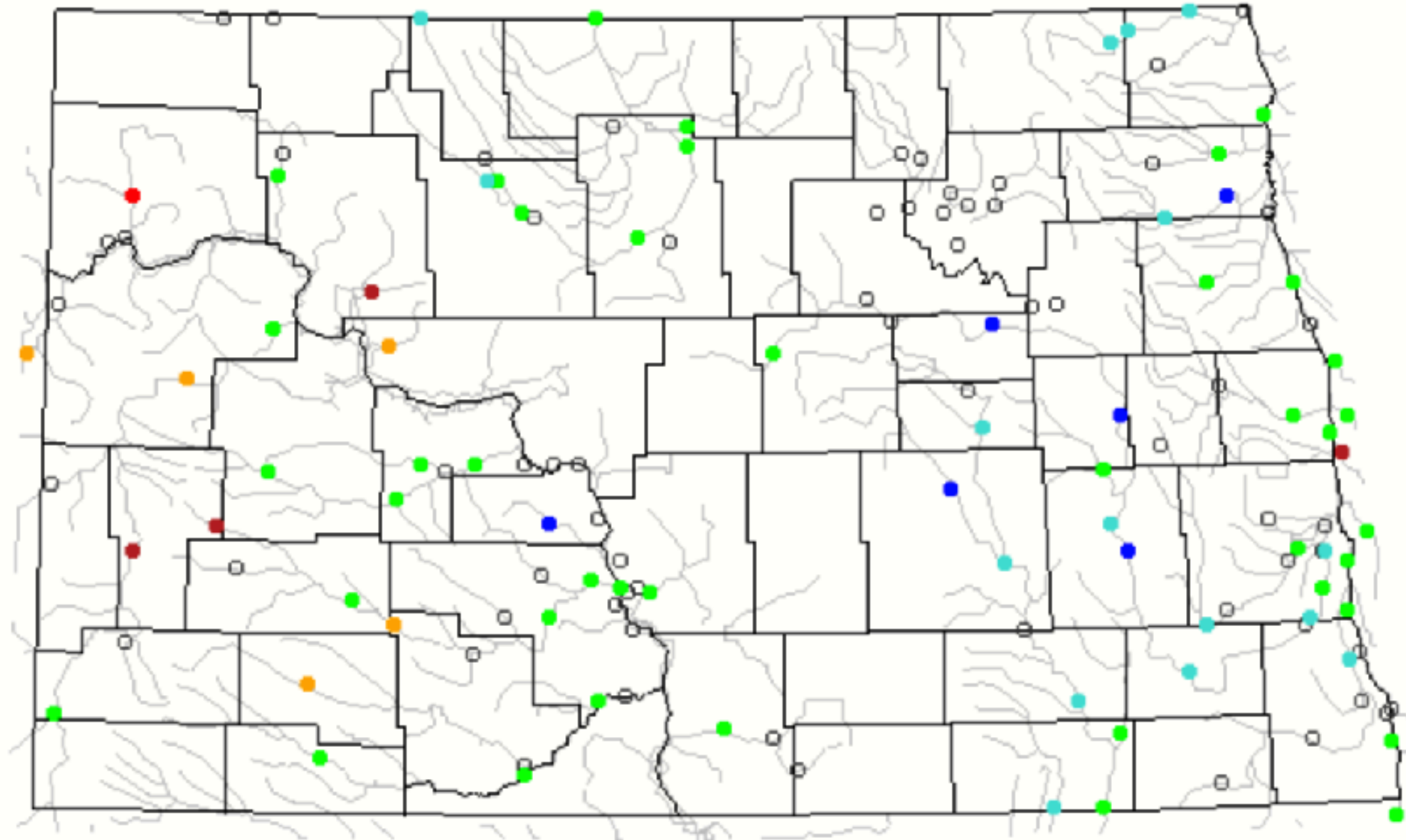
Consecutive Days with Less Than 1.00 inch Precipitation

Oct 16 2024



Days since last 1.00 inch daily rain

Thursday, October 17, 2024 08:30ET



Search USGS streamgage

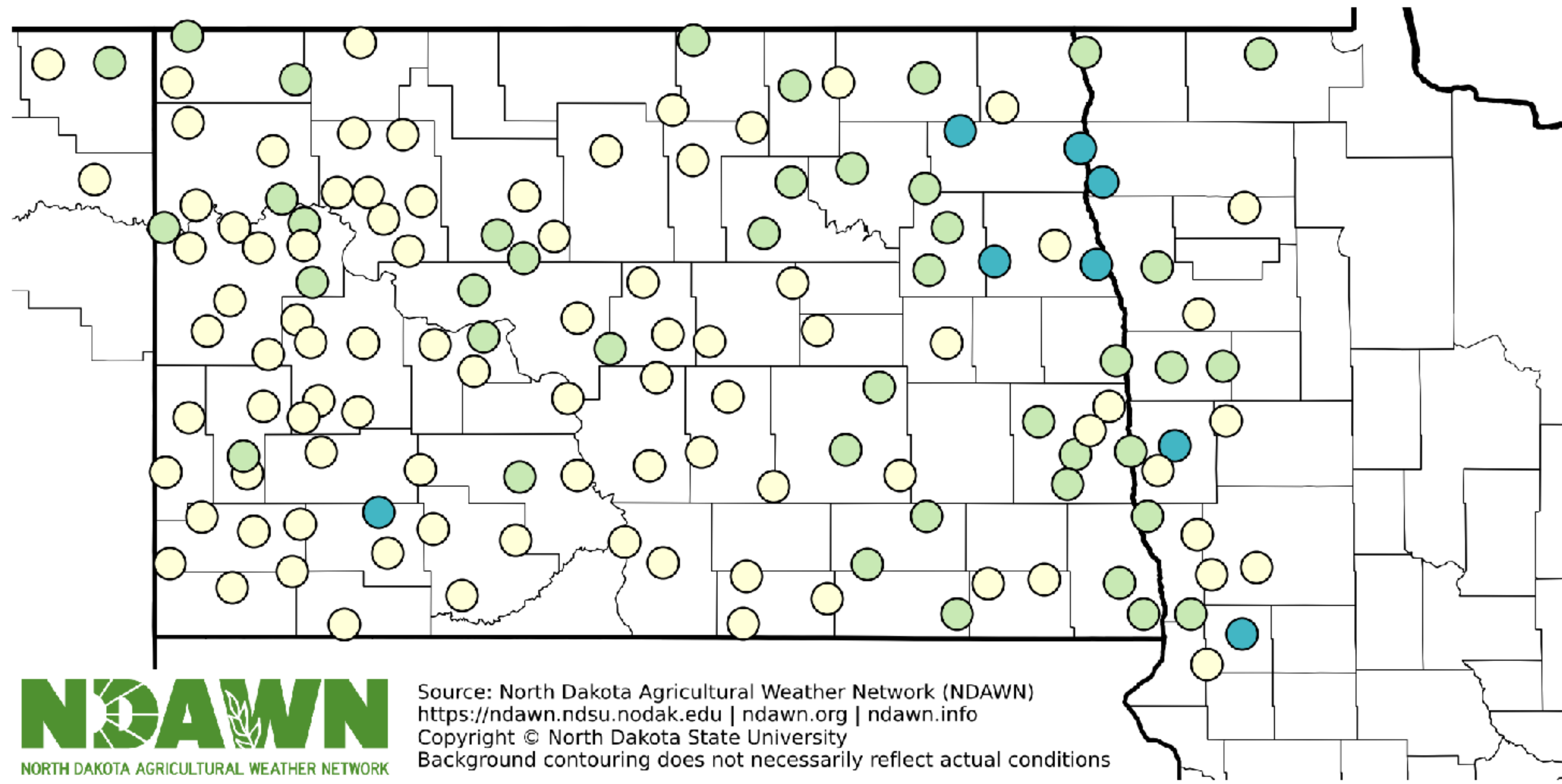


Choose a data retrieval option and select a location on the map

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		

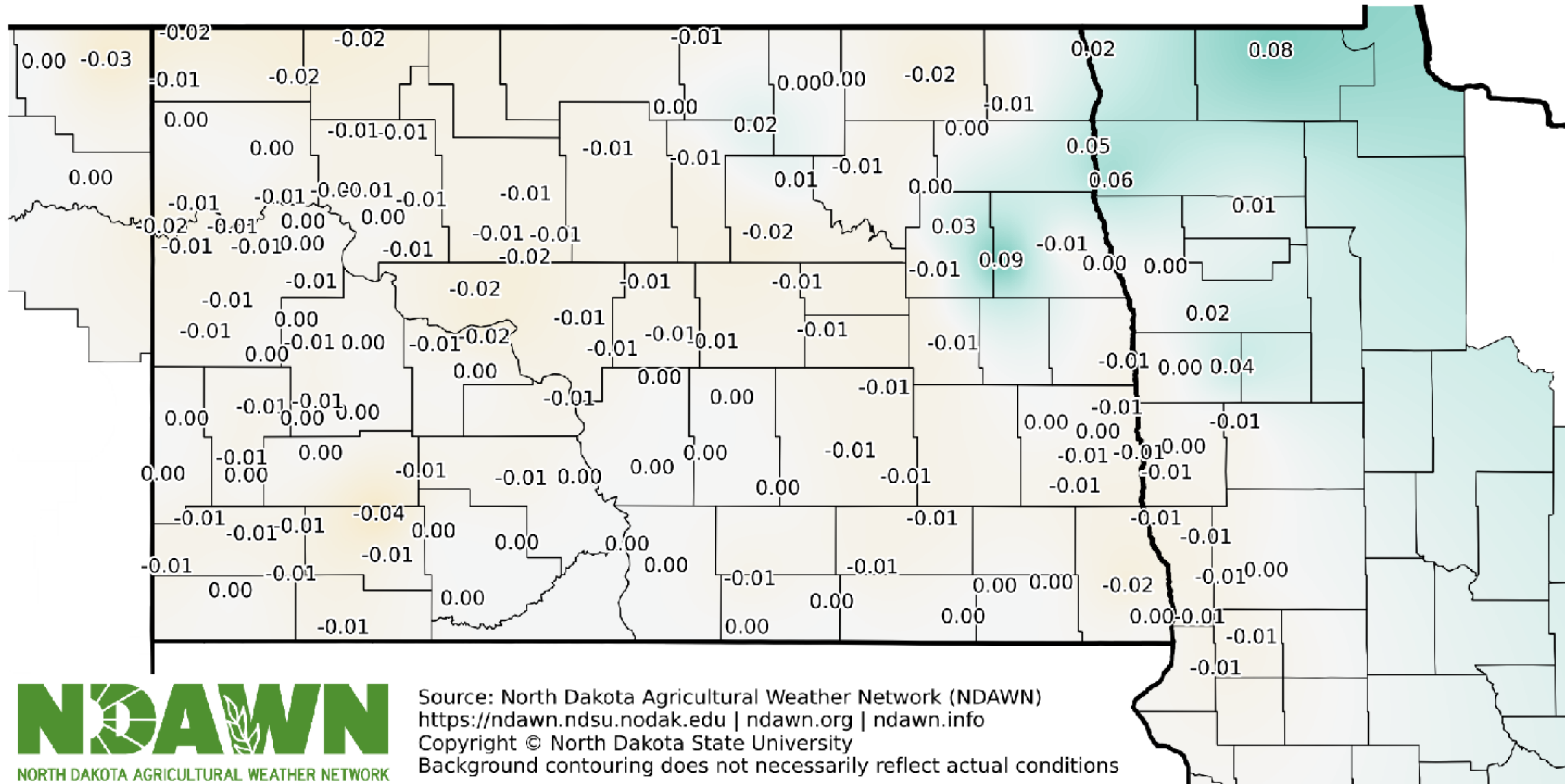
Stream Flows



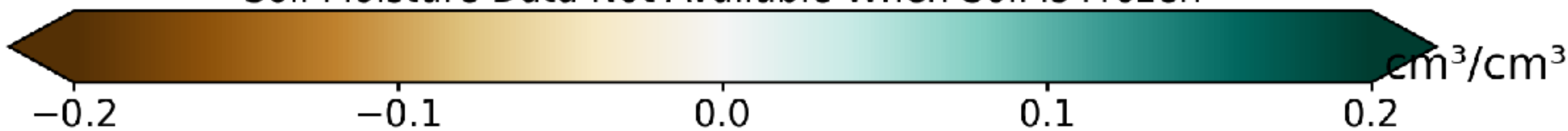
Soil Water 2 inches

7 Day Change in VWC 2 Inch Depth (cm³/cm³)

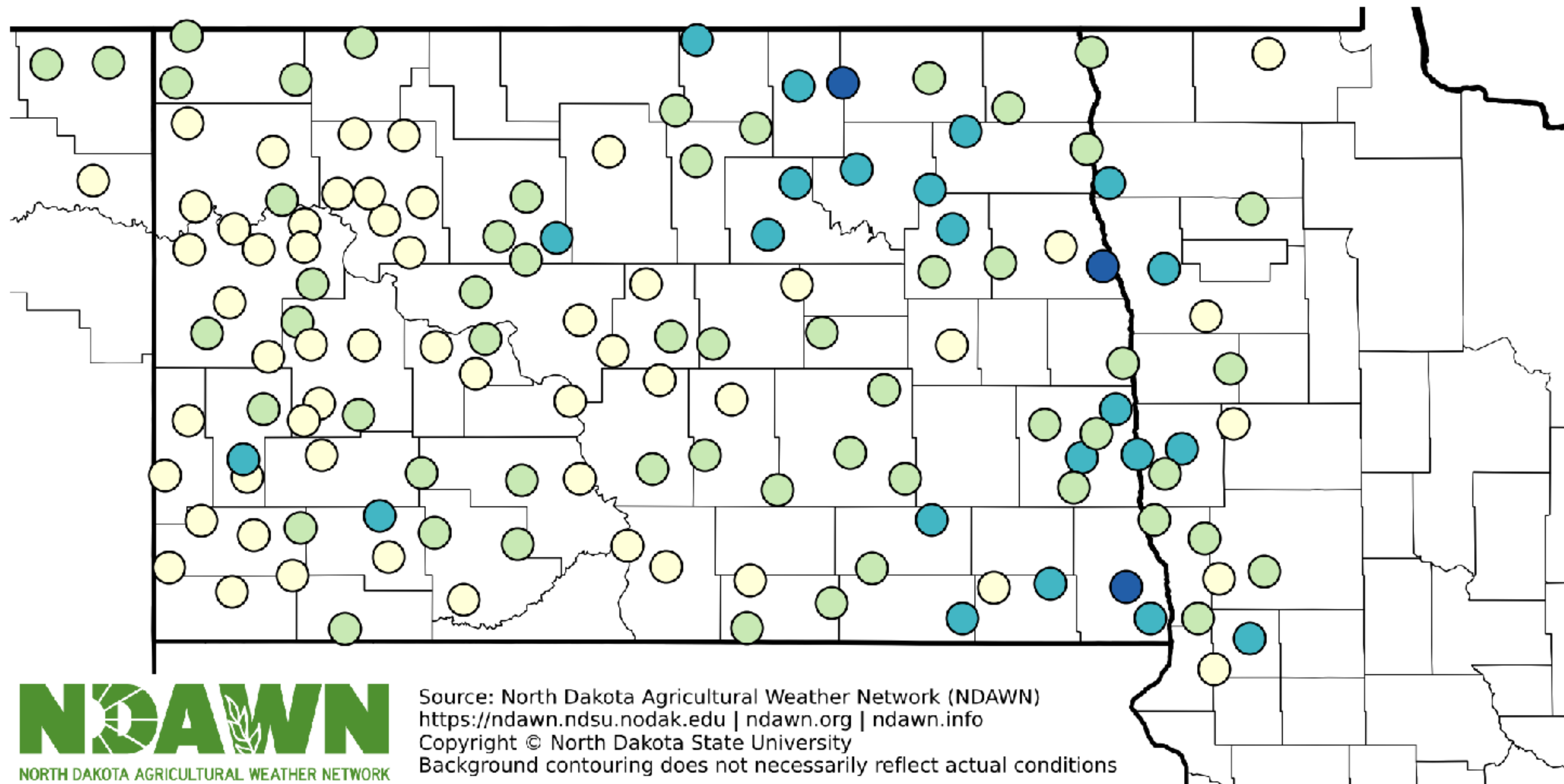
Oct 15 2024 01:00 PM



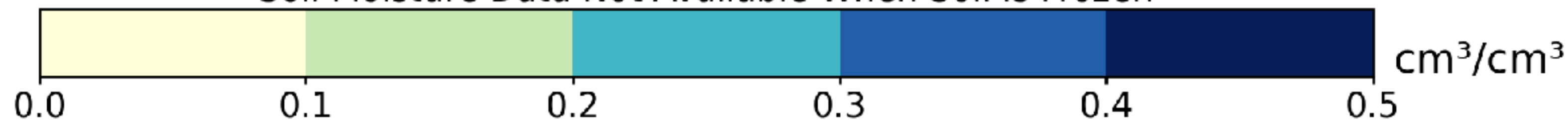
Soil Moisture Data Not Available When Soil Is Frozen



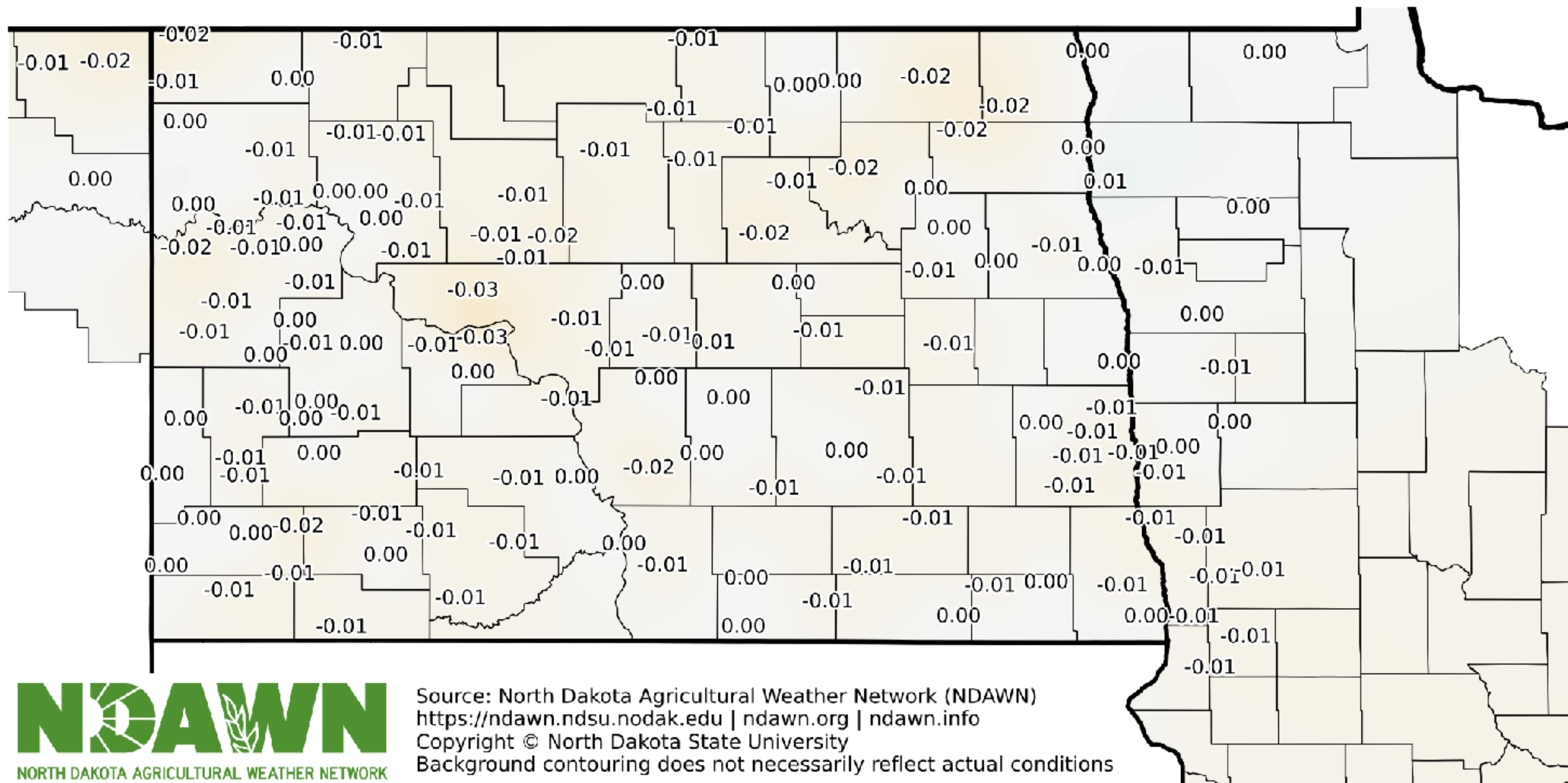
Soil Water 2 inches



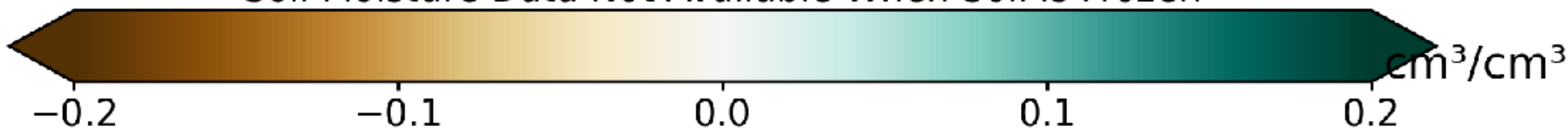
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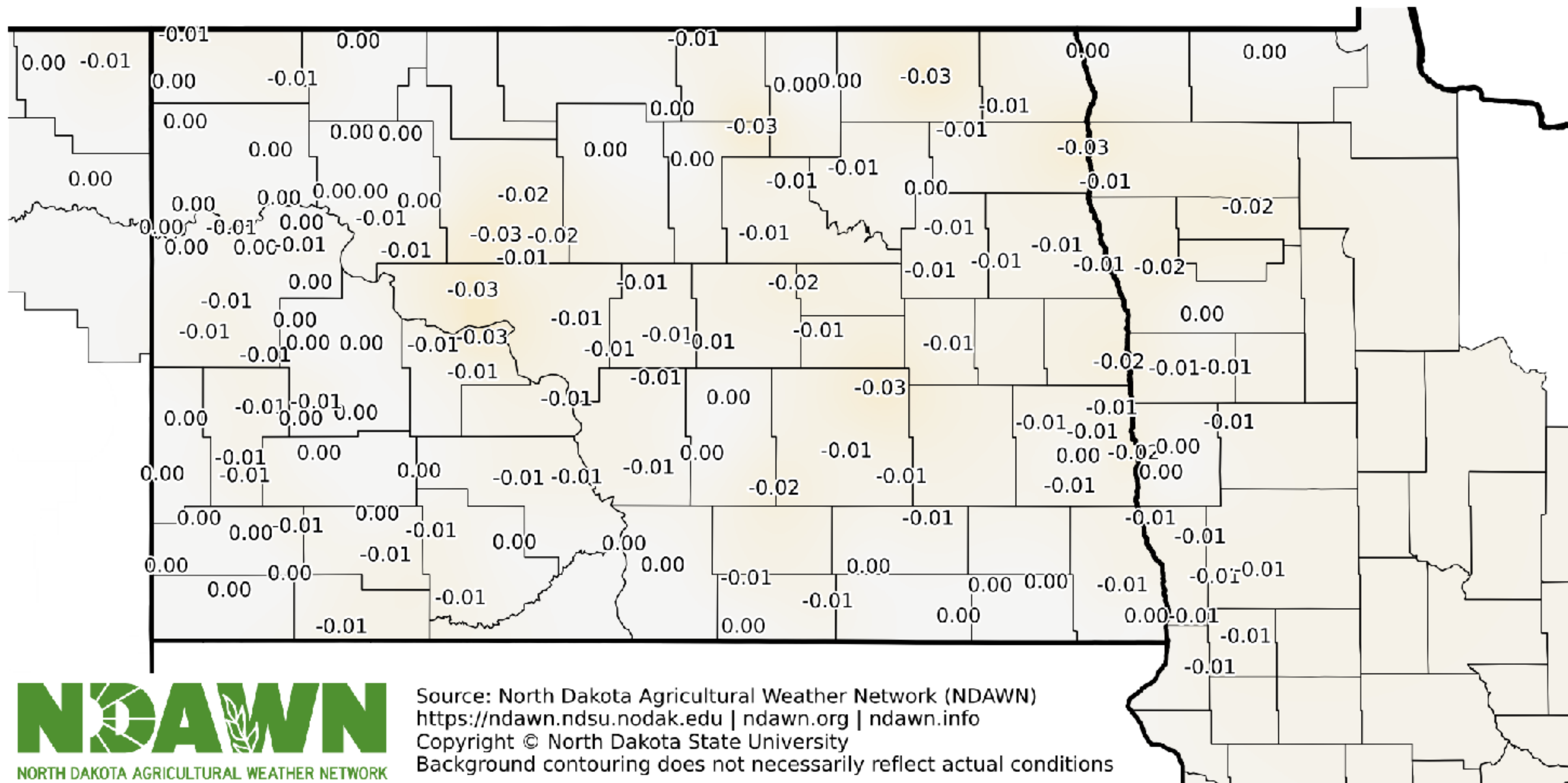
Soil Water 4 inches



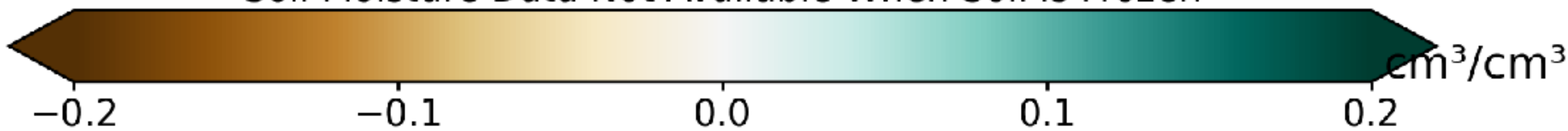
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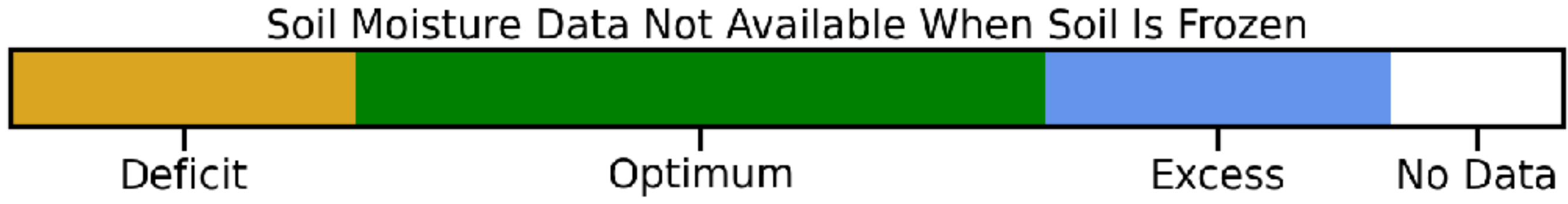
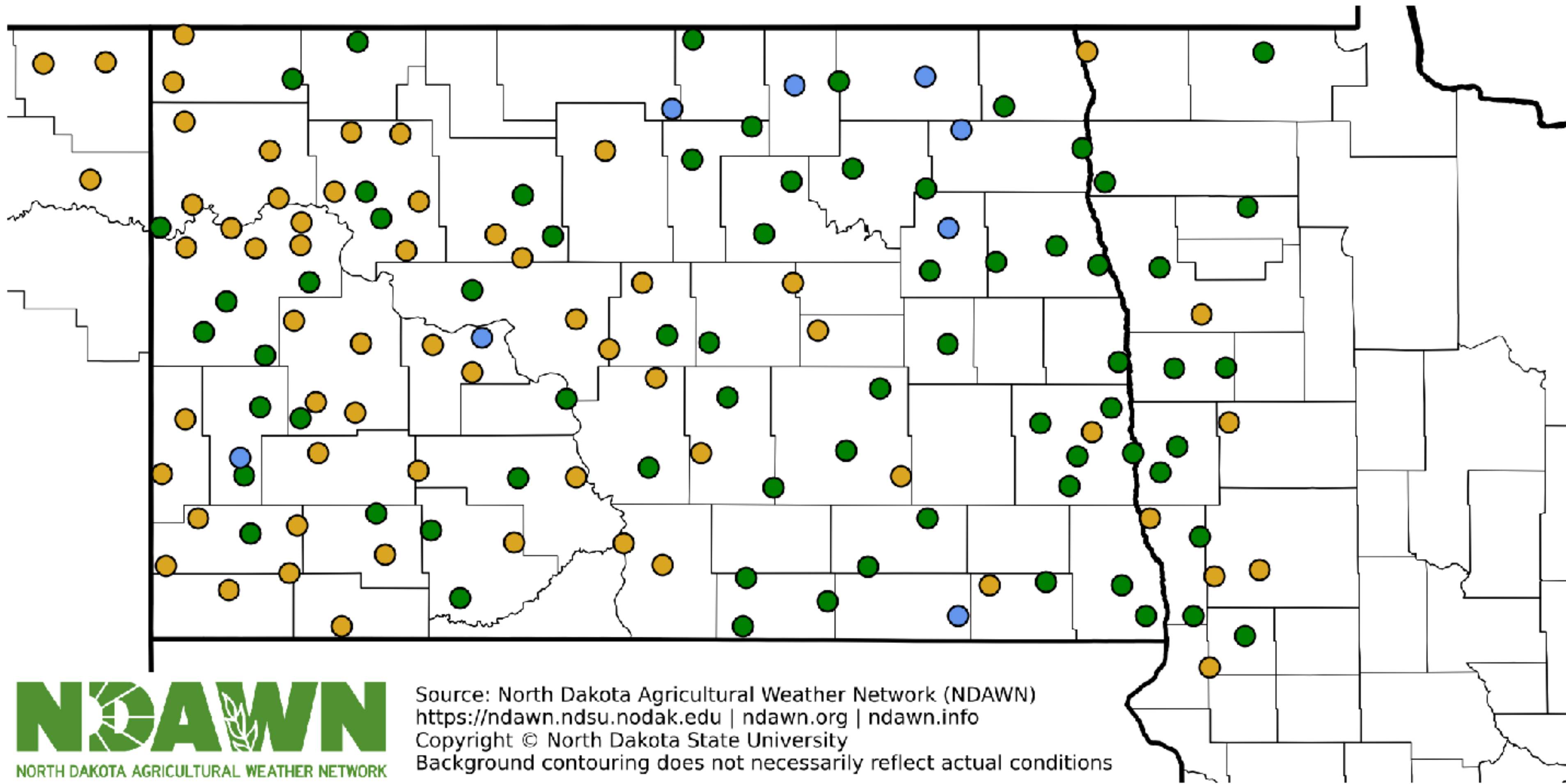
Soil Water 4 inches



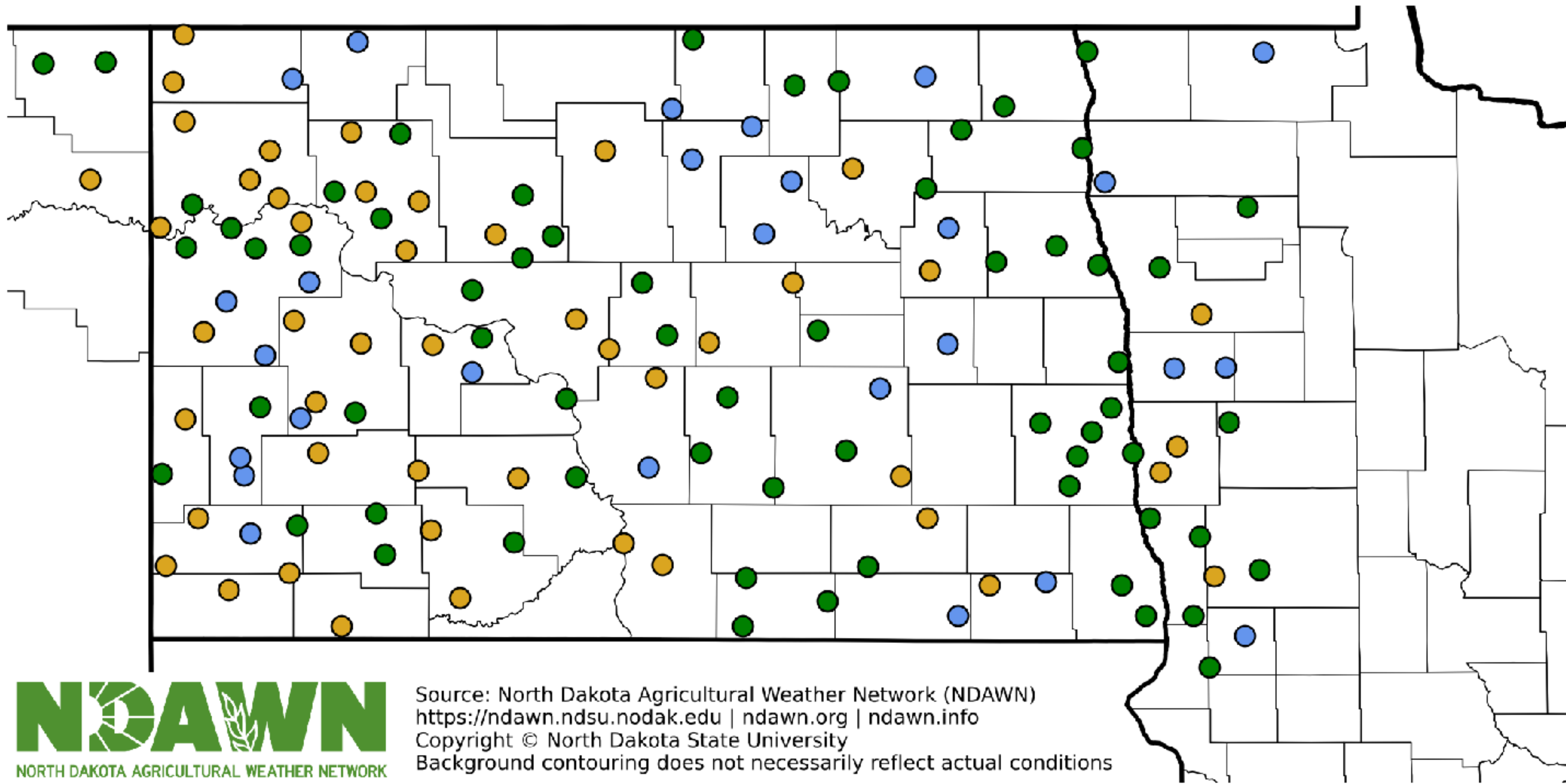
Soil Moisture Data Not Available When Soil Is Frozen



Soil Water 8 inches

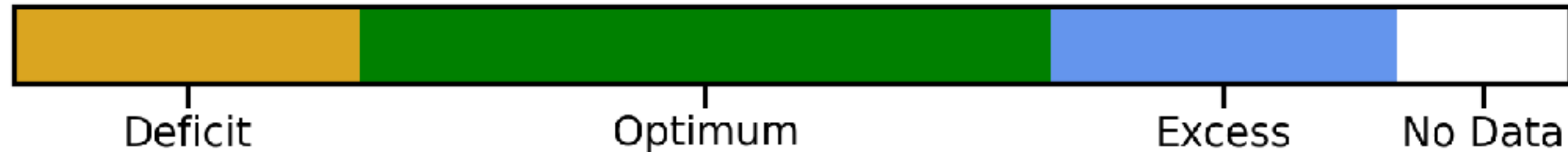


Soil Water 20 inches



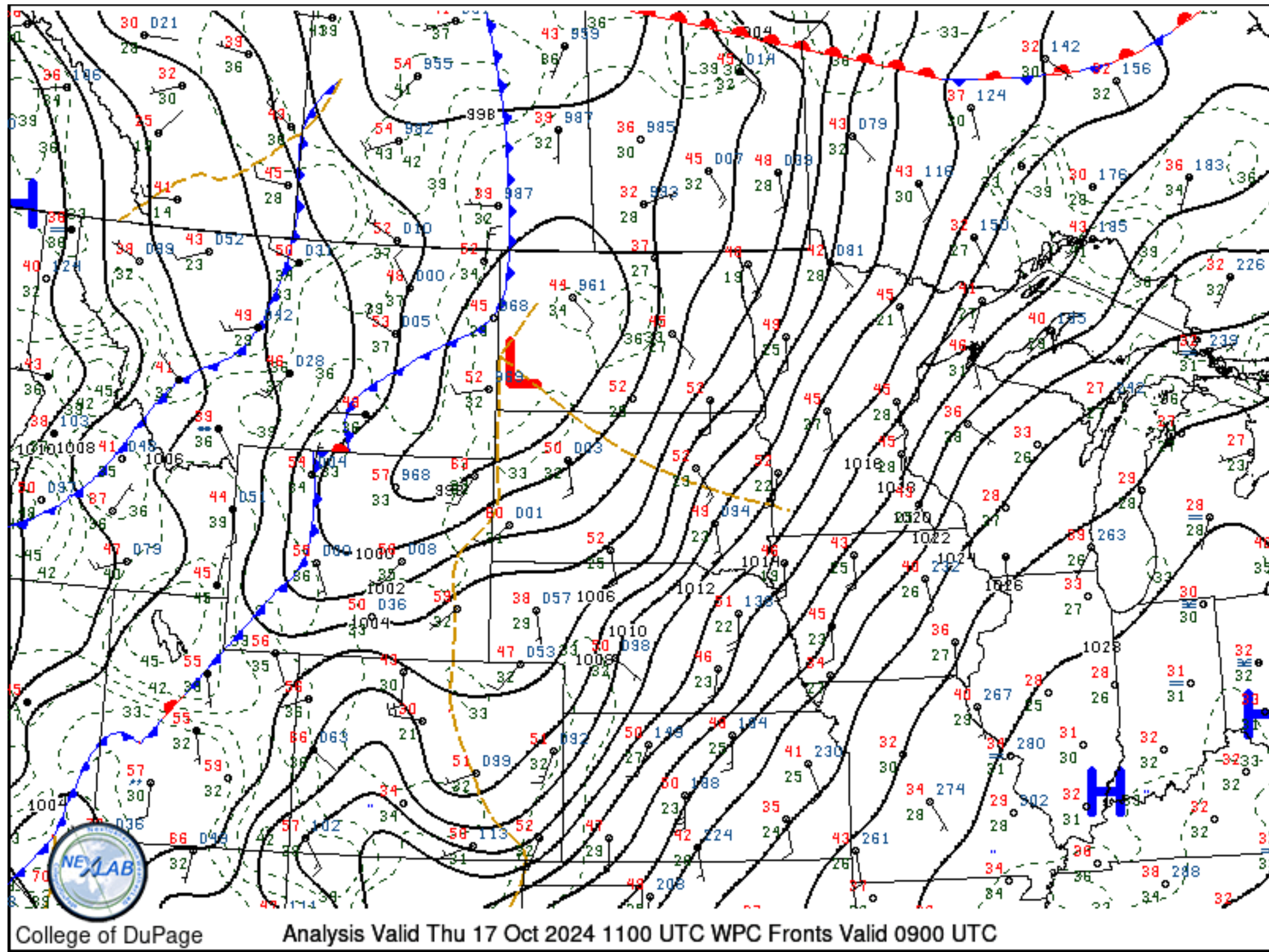
Source: North Dakota Agricultural Weather Network (NDAWN)
<https://ndawn.ndsu.nodak.edu> | ndawn.org | ndawn.info
Copyright © North Dakota State University
Background contouring does not necessarily reflect actual conditions

Soil Moisture Data Not Available When Soil Is Frozen

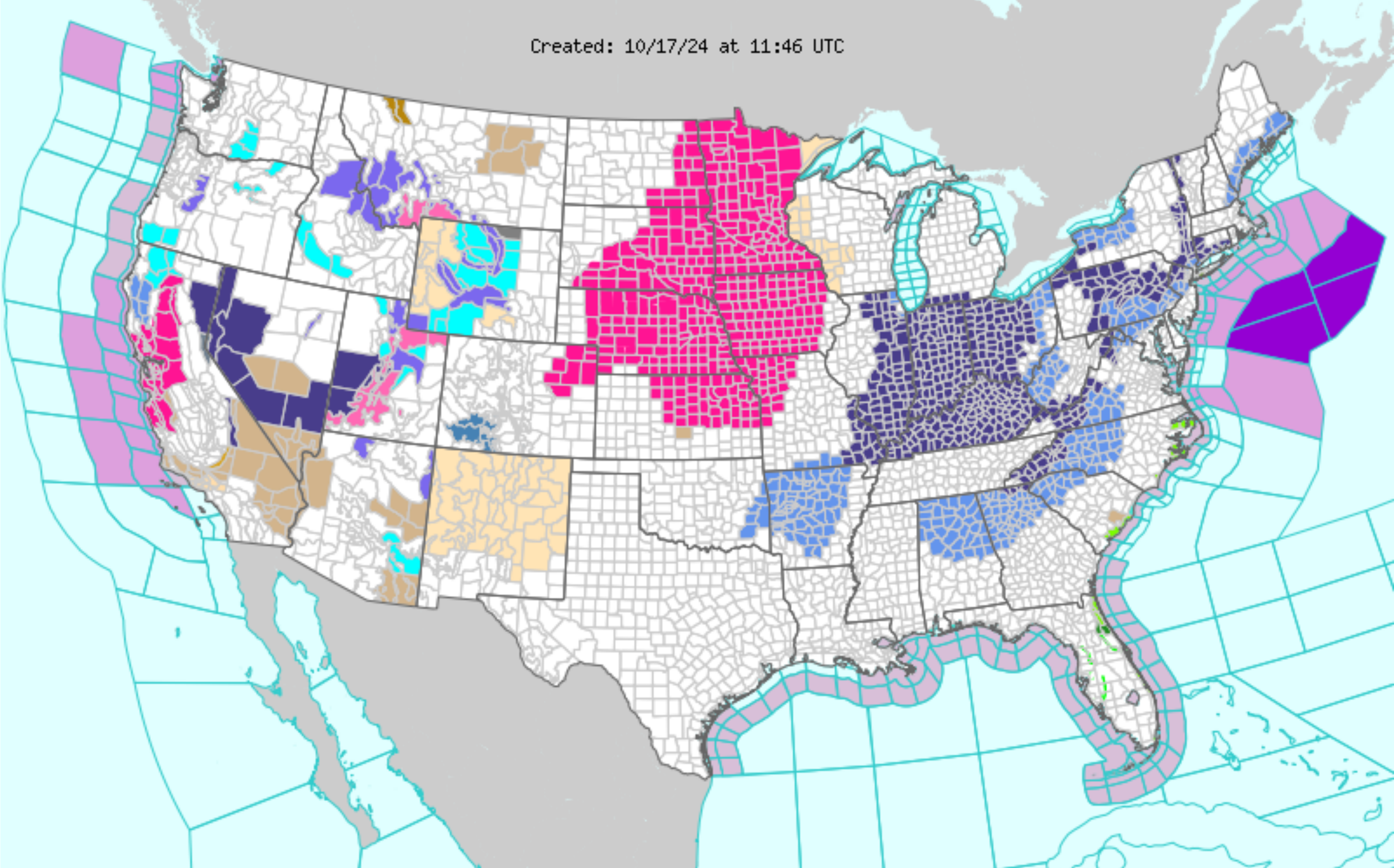


Soil Water 40 inches

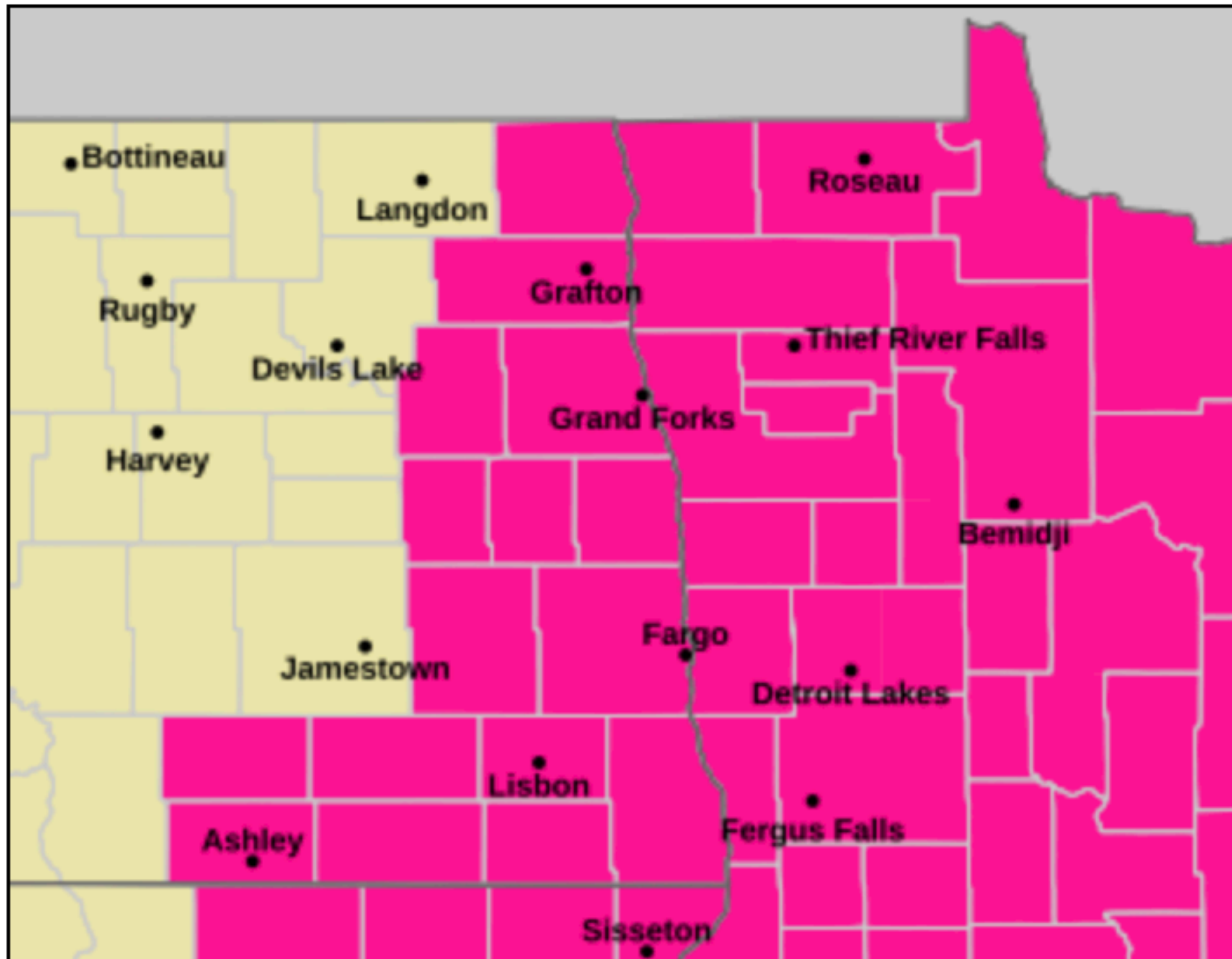
Next Couple of Days




Current Surface Map





Red Flag Warnings




[Watches, Warnings & Advisories](#)



[Red Flag Warning](#) 

[Wind Advisory](#) 

[Hazardous Weather Outlook](#) 

Red Flag Warnings



Red Flag Warning Today

October 17, 2024
3:53 AM



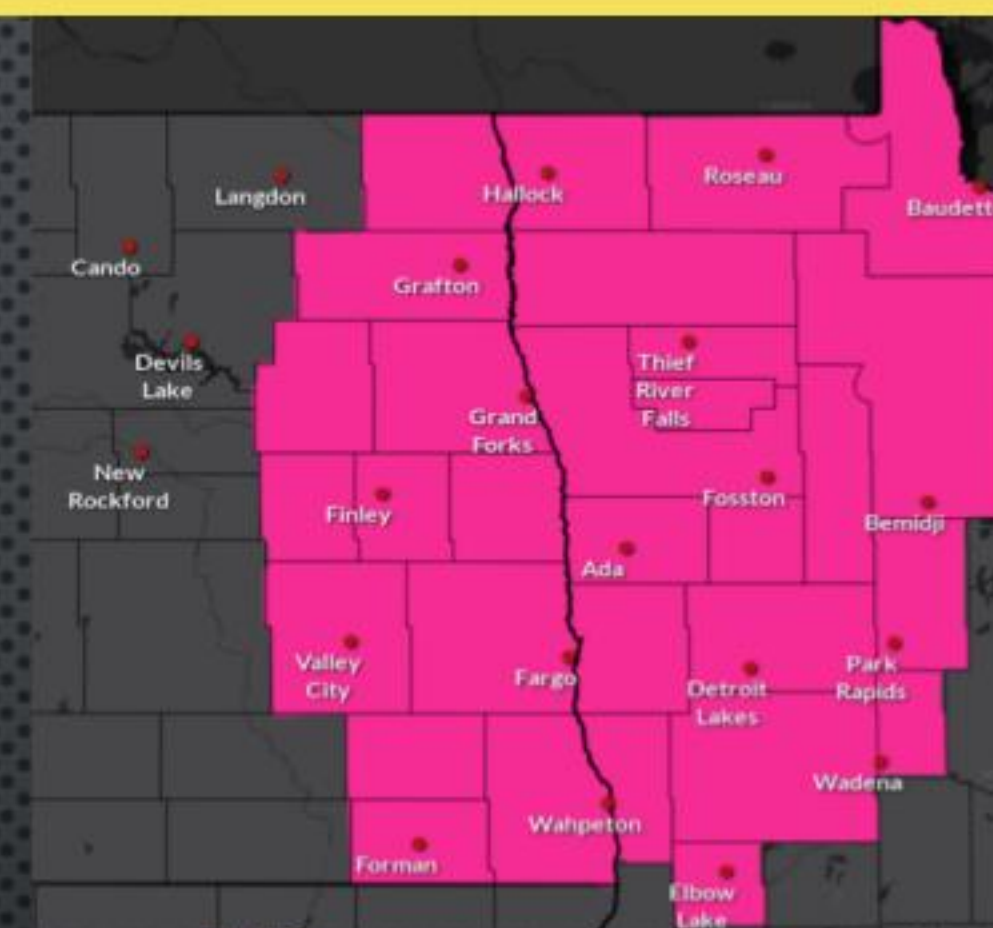
Highs
67-75



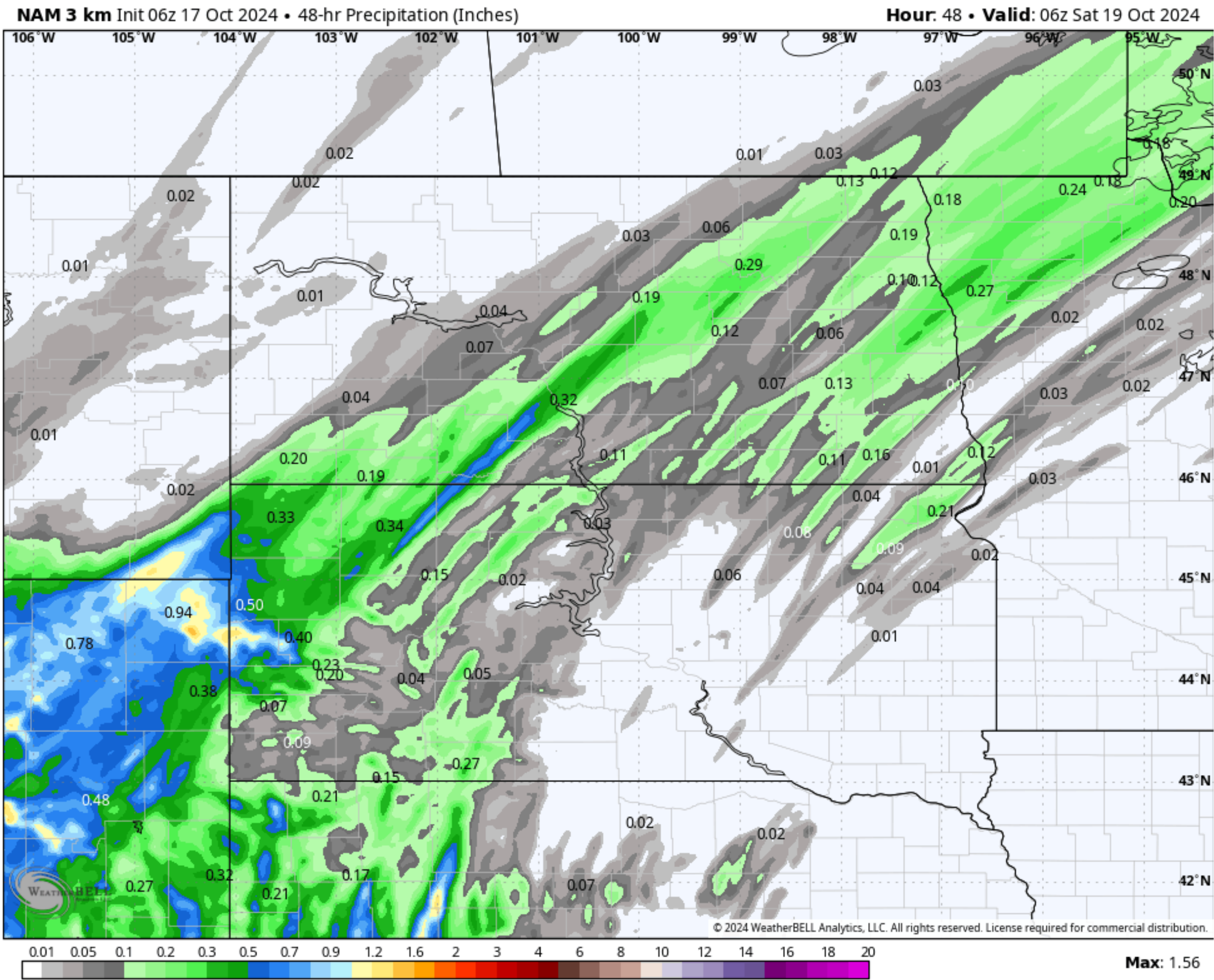
South Winds
up to
30 mph



Lowest RH
20 - 25%



- Avoid outside burning
- Properly dispose cigarettes & matches, don't throw out the car window
- Do not park vehicles in the grass, check trailers for dragging chains
- Be careful with equipment that may spark



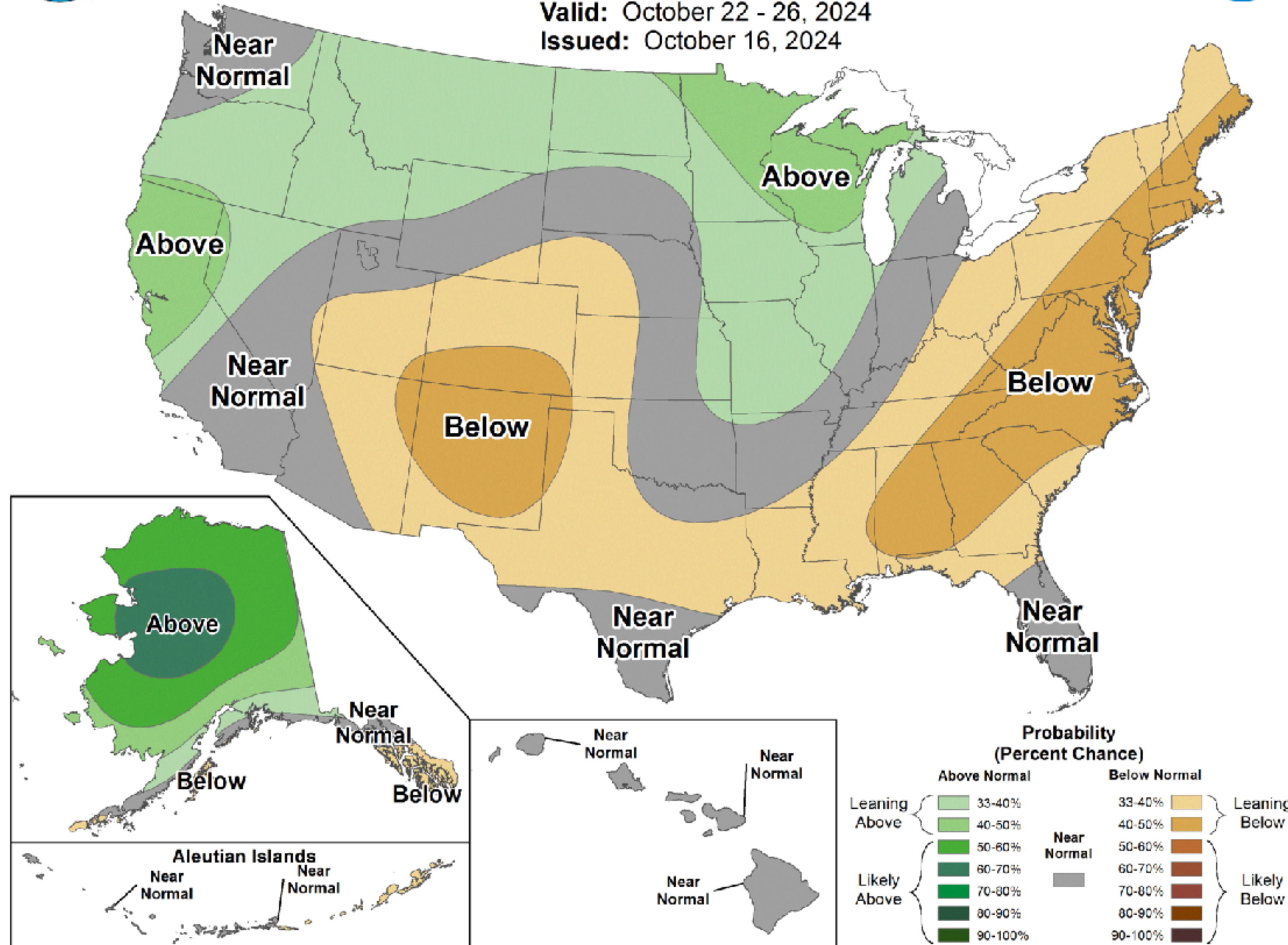
48 Hour Precipitation Guidance



6-10 Day Precipitation Outlook



Valid: October 22 - 26, 2024
Issued: October 16, 2024



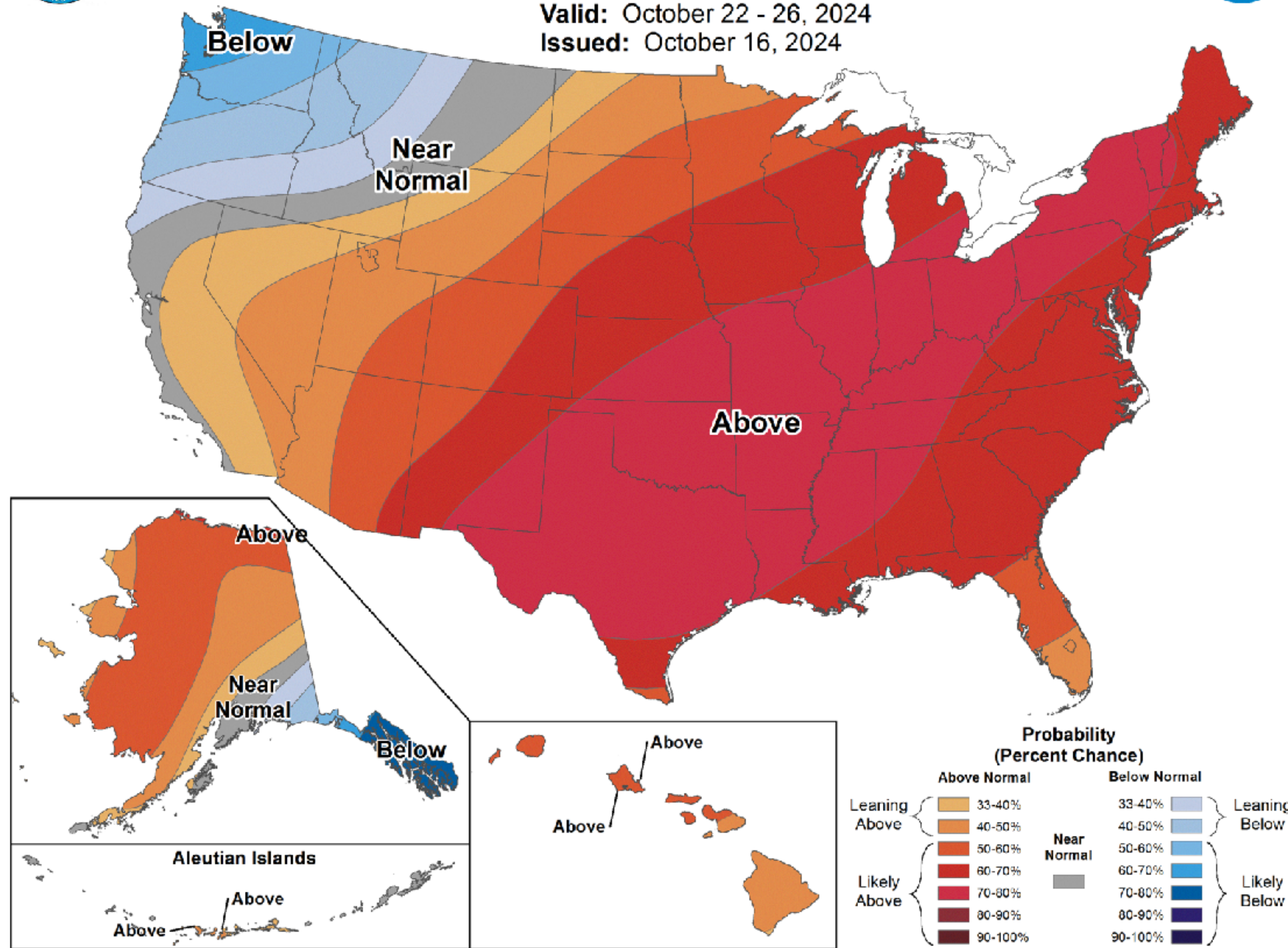
6-10 Day Outlook



6-10 Day Temperature Outlook



Valid: October 22 - 26, 2024
Issued: October 16, 2024



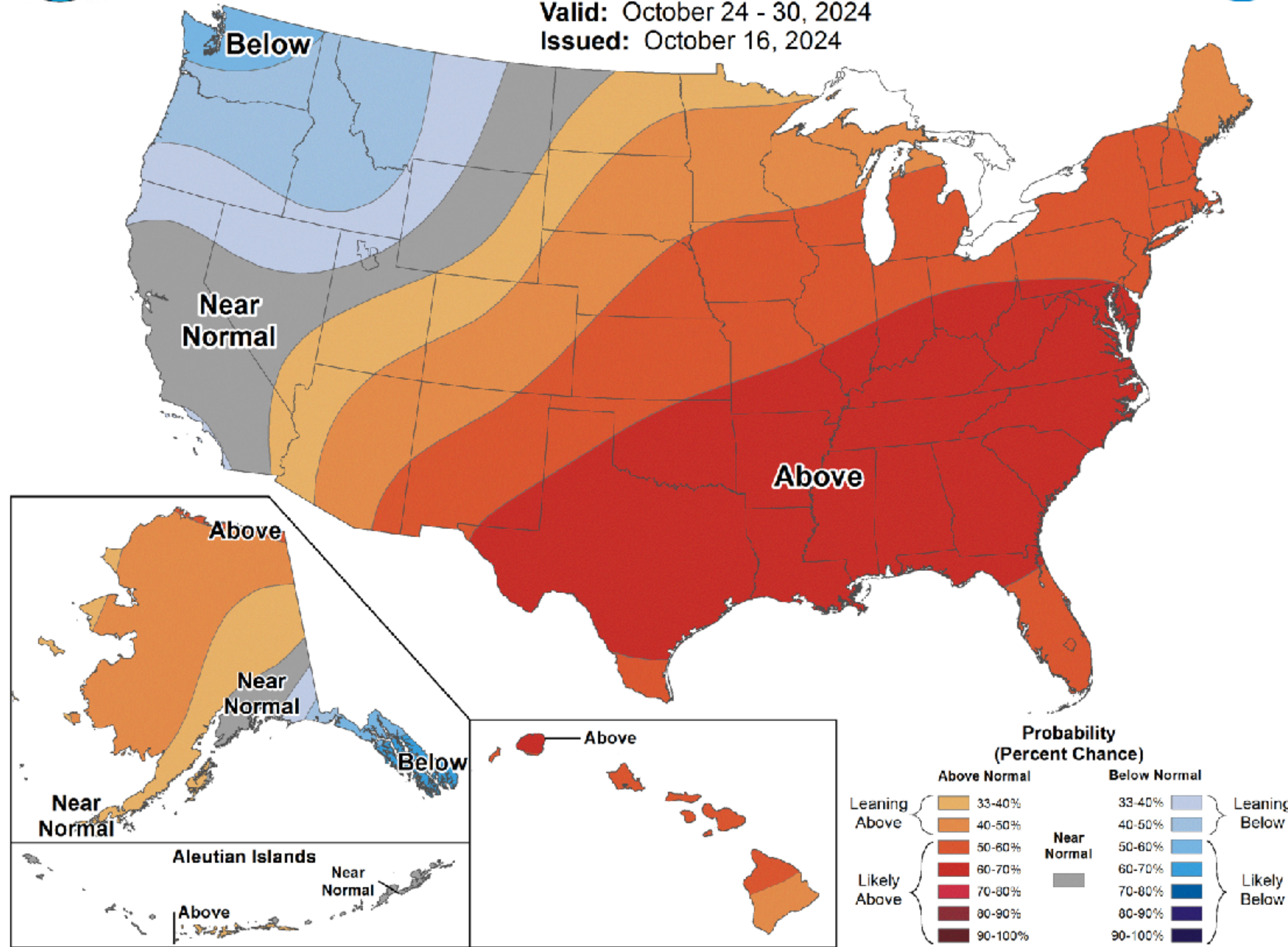
6-10 Day Outlook



8-14 Day Temperature Outlook



Valid: October 24 - 30, 2024
Issued: October 16, 2024



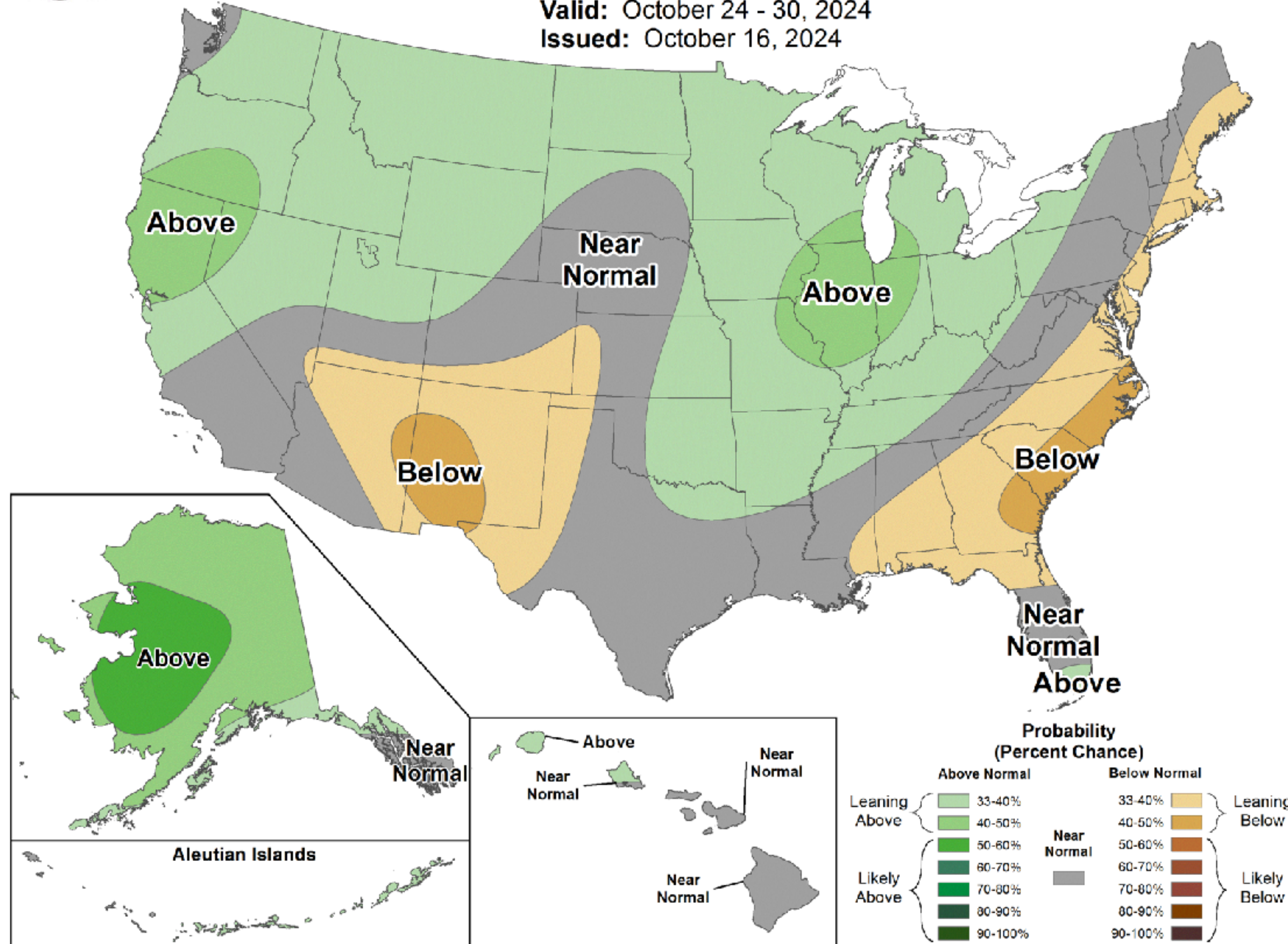
8-14 Day Outlook



8-14 Day Precipitation Outlook



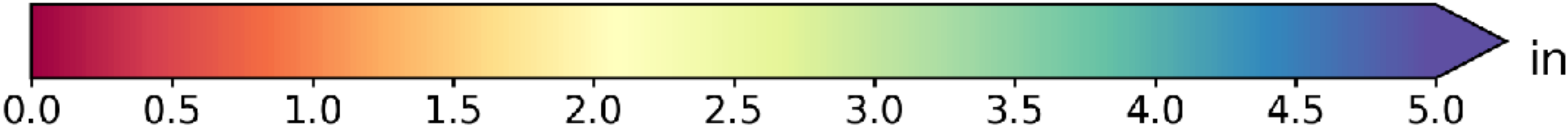
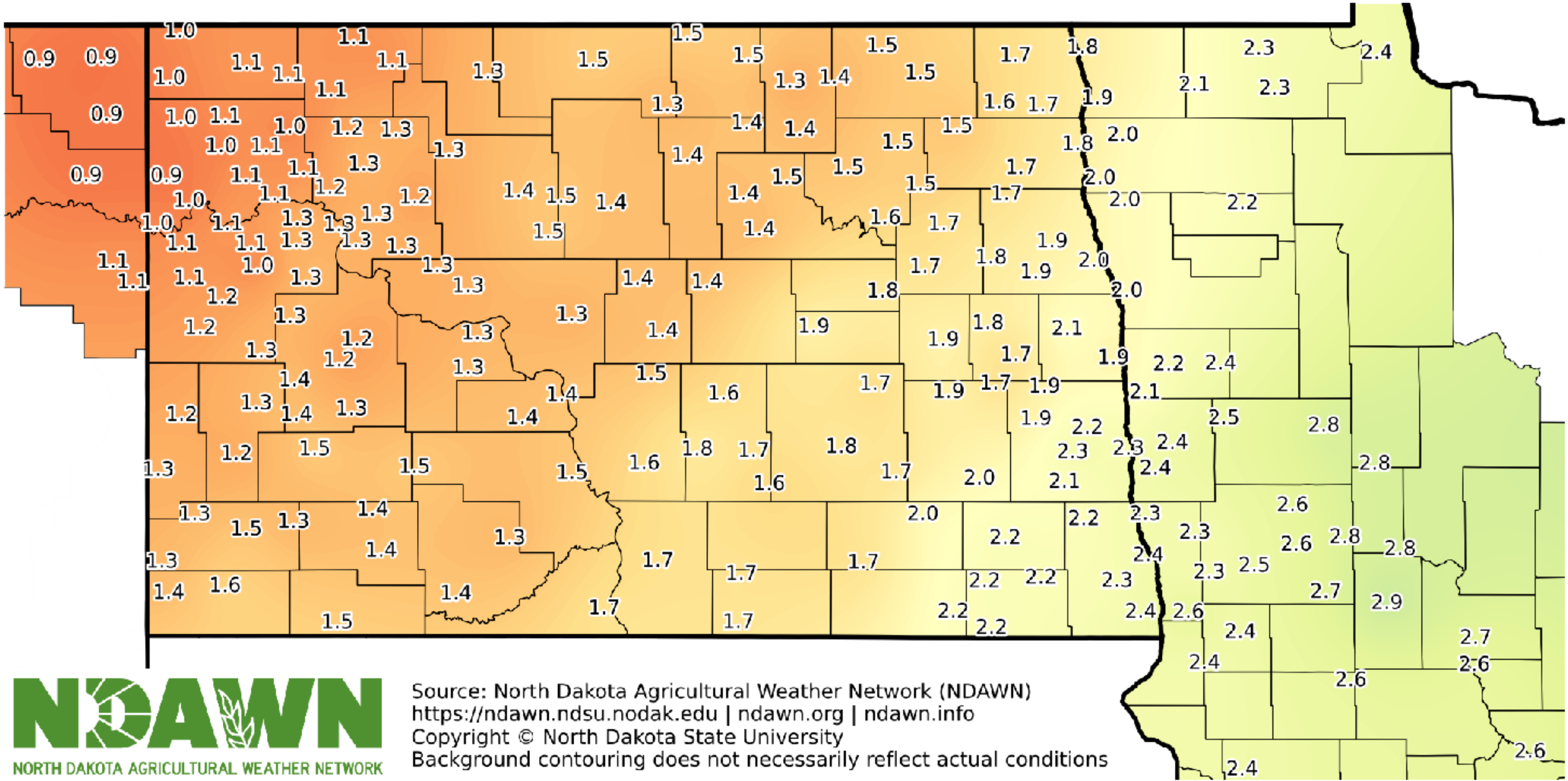
Valid: October 24 - 30, 2024
Issued: October 16, 2024



8-14 Day Outlook

October Total Precipitation (in)

1991-2020 Climate Normals



October Average Rainfall

Summary

Red Flag Warnings in Eastern North Dakota today

Red Flag Warnings in Eastern North Dakota today

Some Rain Tonight into Friday, Again next Tuesday

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Some Rain Tonight into Friday, Again next Tuesday

Drought Conditions have expanded in North Dakota.

Red Flag Warnings in Eastern North Dakota today

Some Rain Tonight into Friday, Again next Tuesday

Drought Conditions have expanded in North Dakota.

Above average temps / Near Average rain rest of month?

daryl.ritchison@ndsu.edu