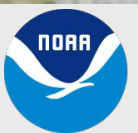


2025 Spring Flood Outlook #2

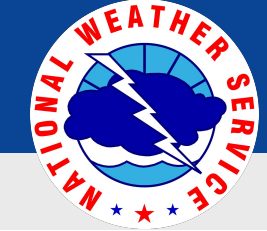
March 1, 2025
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NWS Hastings Hydrologic Area: Central/South Central Nebraska and North Central Kansas



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U.S. Department of Commerce

National Weather Service
Hastings, NE



Spring Flood Outlook - Overview

March 1, 2025
3:26 PM

Spring Flood Risk Across Central/South Central NE and North Central KS is Mainly: Below Normal (Overall) to Near-To-Below Normal (*VERY SHORT shorter term ice jam risk*)

- Local area snowpack is currently non-existent
(although some limited snow cover could return during the next week)
- Mountain snowpack in the North/South Platte River Basins is mainly near-normal with plenty of storage space in upstream reservoirs such as Lake McConaughy
- Soil moisture is overall drier than normal and should be capable of absorbing plenty of moisture...especially with thawing of topsoil well-underway
- Current streamflow on most local rivers is averaging near normal to below normal
- The CPC longer range precipitation outlook (March-May) indicates a slight lean toward below normal precipitation
- VERY-SHORT-TERM ice jam risk through next few days: there could still be 1-2 more days of limited ice jam potential mainly in the Loup River system
- *NOTE: Isolated flooding is still possible even in dry years and when the overall flood risk is low.*





Spring Flood Outlook - Risk Factors

March 1, 2025
3:26 PM

Central/South Central Nebraska and North Central Kansas

Overall Spring Flood Risk

**** Below Normal (except low-to-elevated very short term ice jam potential) ****

Contributing Factors	Very Short Term: Early March	Longer Term: Mid March - May
Local Area Snowpack	Low/Normal	Low/Normal
Mountain Snowpack	Low/Normal	Low/Normal
River Ice/Frozen Ground	Low-to-Elevated <i>quickly decreasing</i>	Low/Normal
Soil Moisture	Low/Normal	Low/Normal
Streamflow	Low/Normal	Low/Normal
Precipitation Outlook	Low/Normal	Low/Normal

Bottom Line Up Front

- **Below Normal OVERALL Spring Flood Risk:** Biggest factors are ongoing drought/drier soil and seasonal precipitation not forecast to be above normal.
- **Low-to-Elevated VERY Short Term Ice Jam Flood Risk (Platte/Loup Rivers):** Although MOST river ice has melted/flushed out of the rivers, there could still be 1-2 more days of limited ice jam potential mainly in the Loup River system
- **Streamflow:** Our main rivers are mostly running near-to-below normal
- **Precipitation Outlooks:** CPC indicates a mix slight lean toward below normal precip March-May across our entire area

Impact Level	Low/Normal	Elevated	Significant
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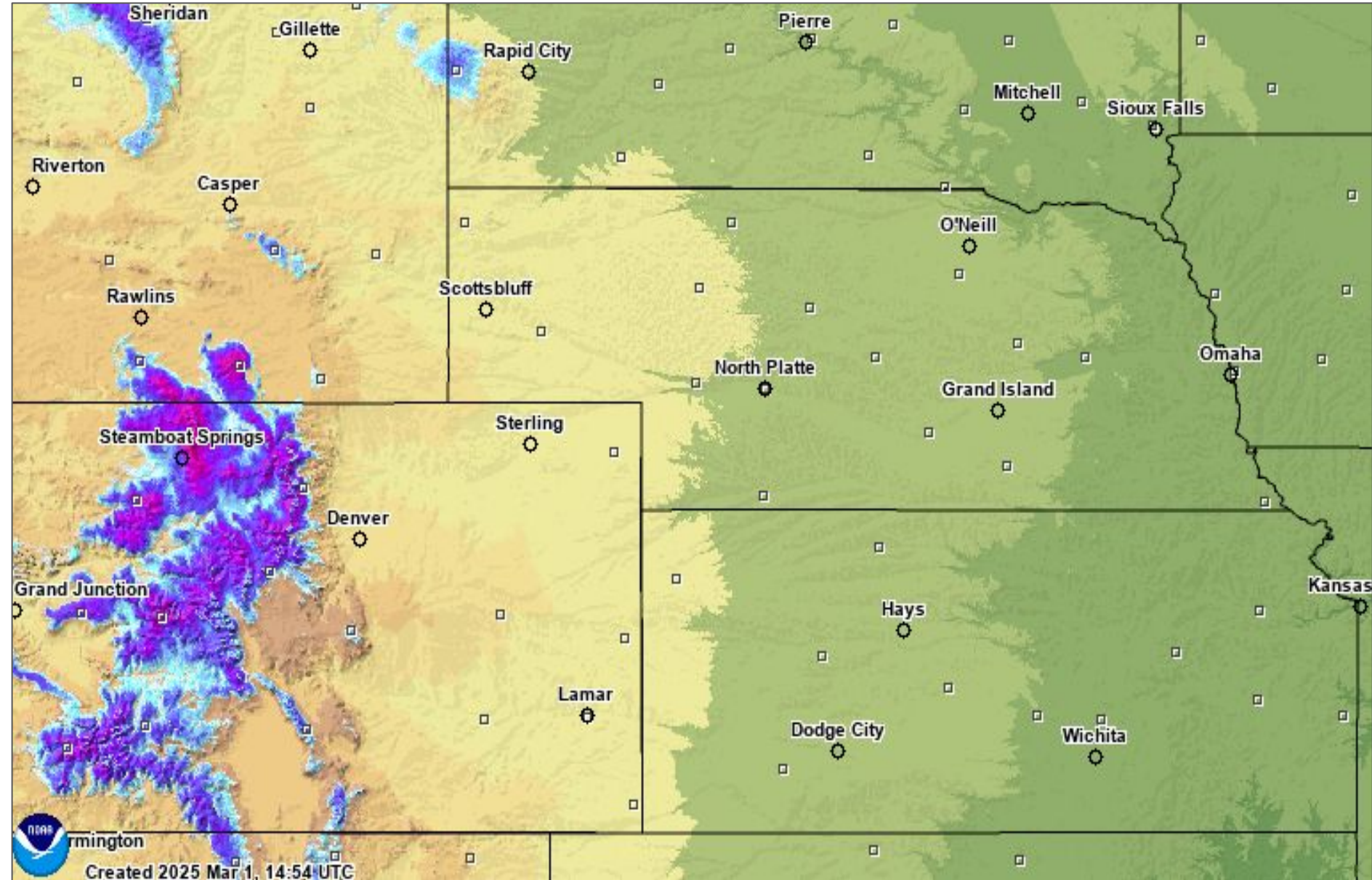
Regional Snowpack (March 1)

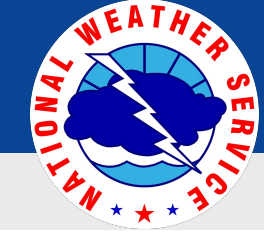
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Fairly shallow in/near our region

Key Messages

- Recent warm-up has “obliterated” all snow cover in the Central Plains
- All regional snow cover currently confined to Rockies/Black Hills





2024-25 Seasonal Snowfall-To-Date

March 1, 2025
3:26 PM

Despite a “mid-February rally”, most of our forecast area still 4-12” below normal for the season

As of Feb. 28, 2025:

Grand Island

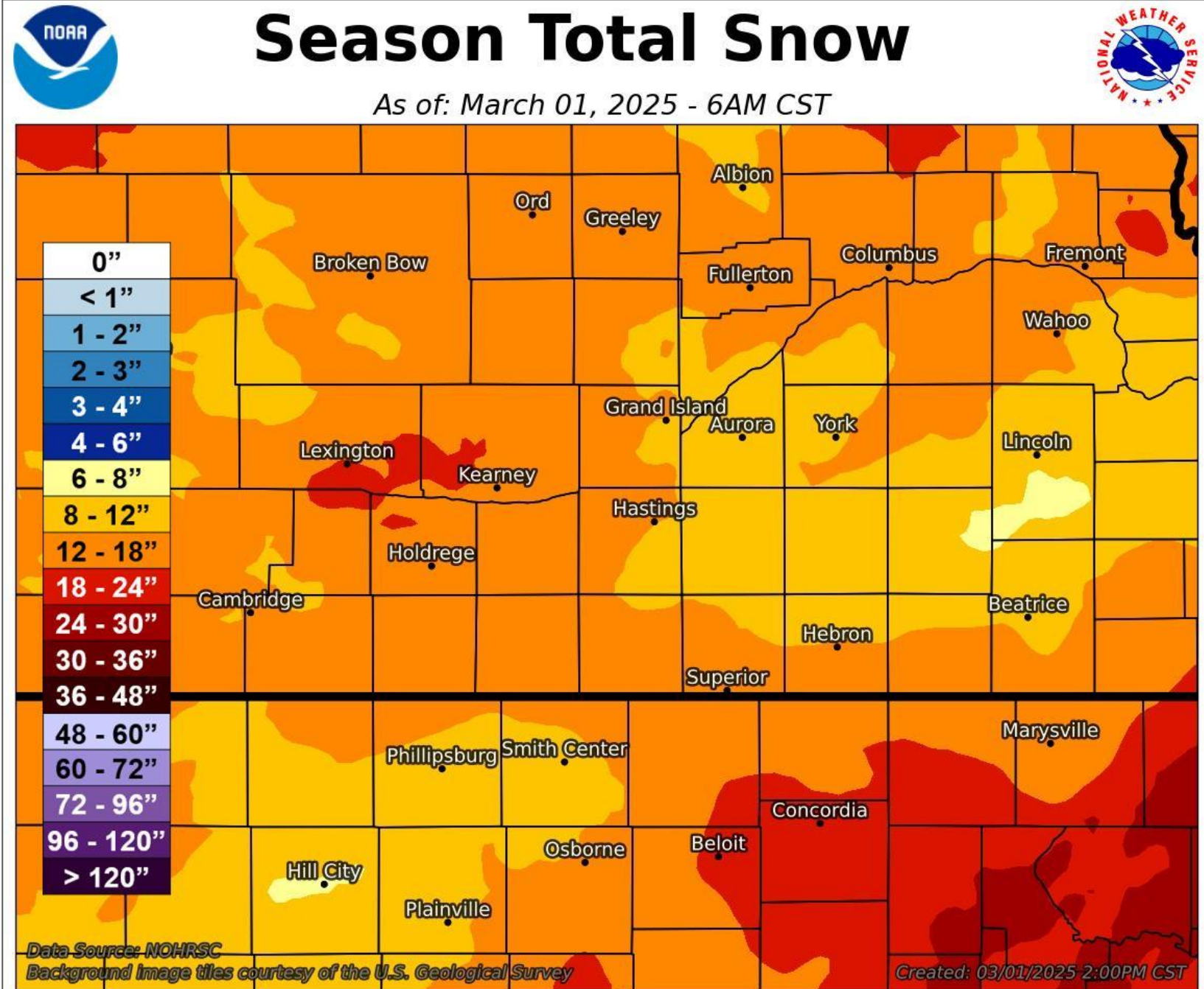
Seasonal Snow (since fall 2024):

Current 15.0”
Normal 22.3”
Departure -7.3”

Grand Island

Liquid Equivalent Precipitation:

Dec. 1 - Feb. 28
(meteorological winter)
Liquid 1.26”
Normal 2.19”
Departure -0.93”





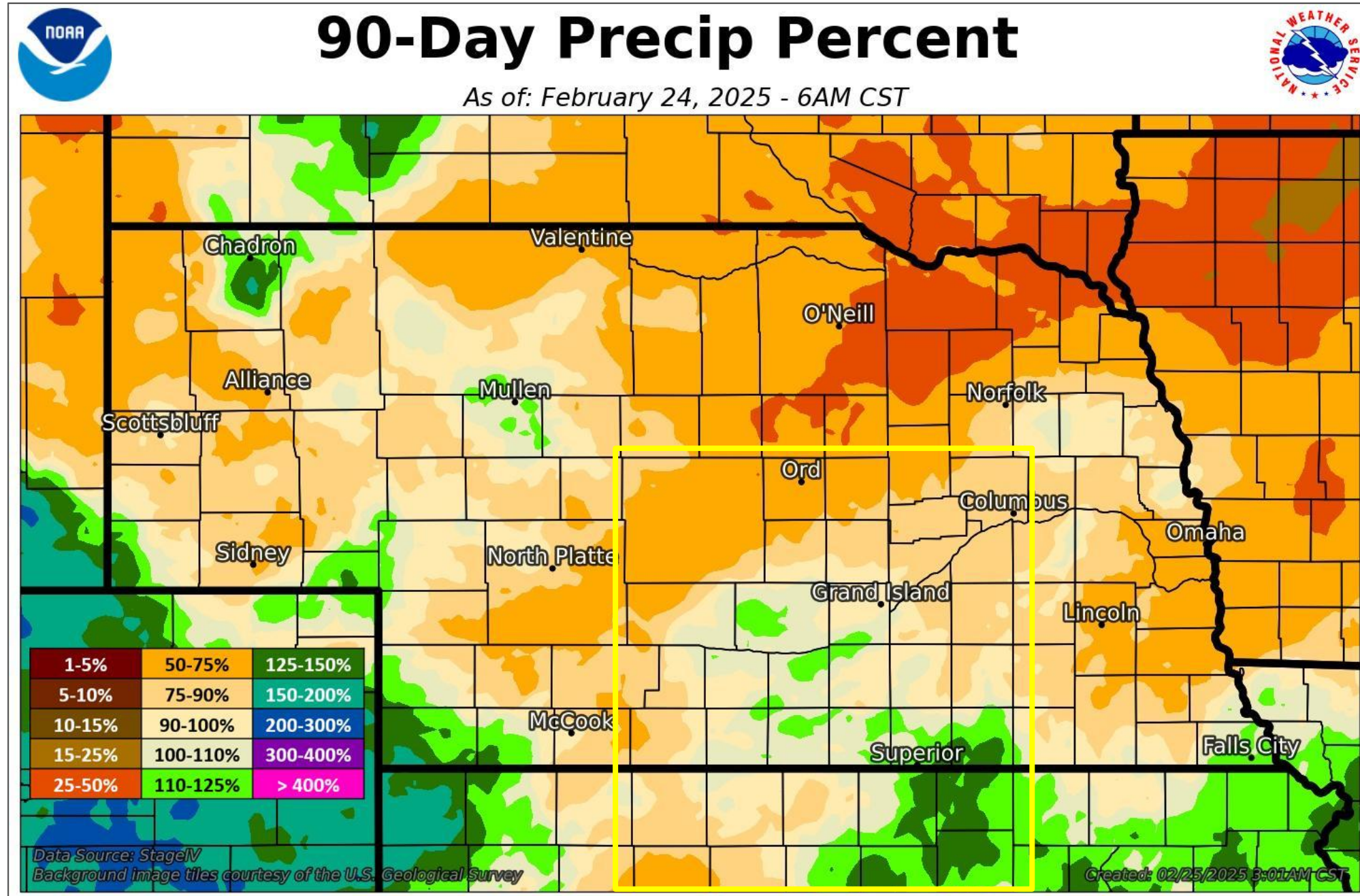
Precipitation Trends Last 90 Days

March 1, 2025
3:26 PM

MOST of our forecast area only received 40-70% of normal precip Dec-Feb

Key Messages

- Over the last 90 days (mainly Dec-Feb), **MOST** of our forecast area has only received 40-70% of normal
- Overall-driest far north and west
- Overall-wettest far southeast

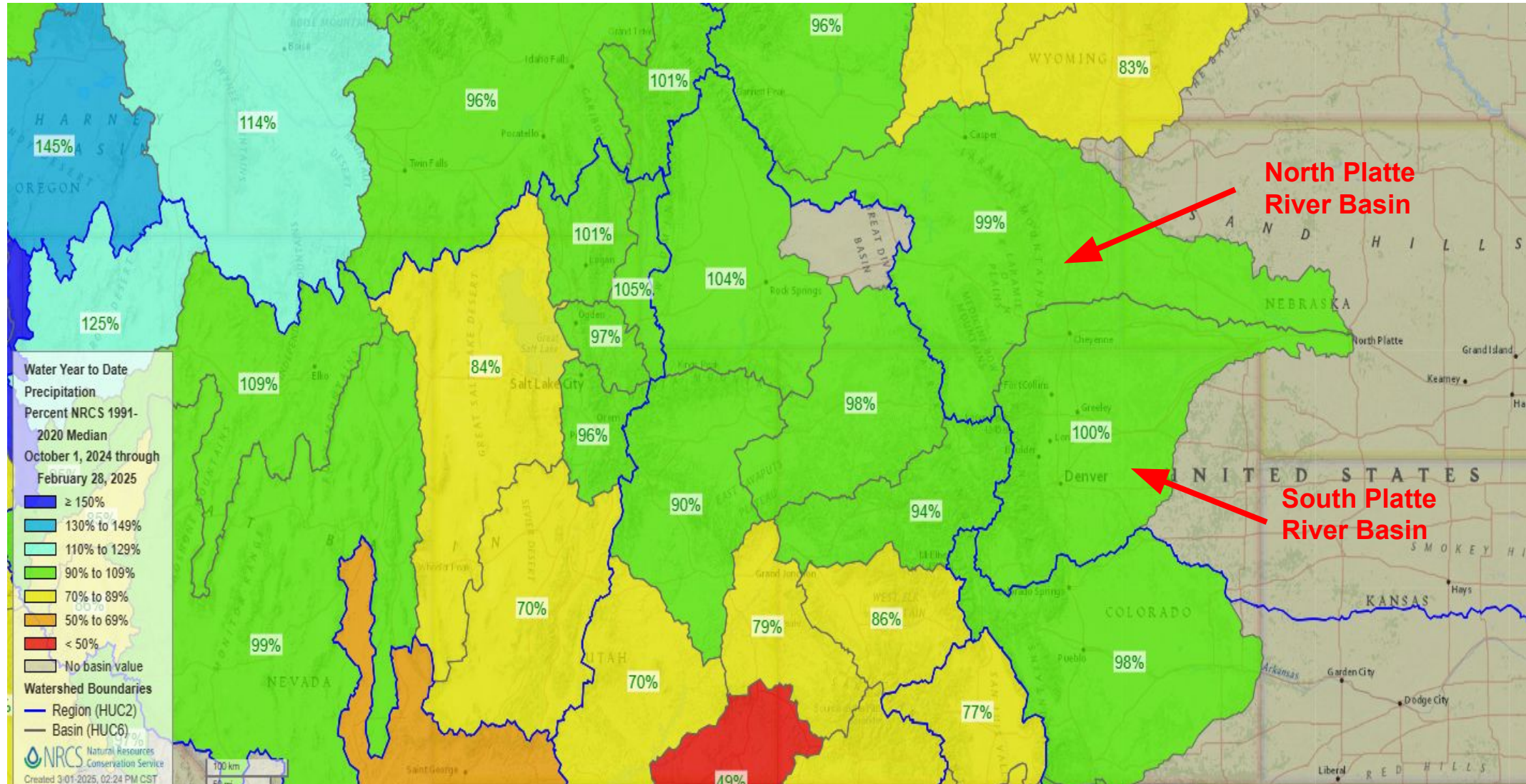




Western/Mountain Precipitation

March 1, 2025
3:26 PM

Near-Normal Water Year-To-Date Precipitation in Basins That "Feed" Platte River



Location	Today (Feet above Sea Level)	1 Week Ago	1 Month Ago	1 Year Ago
Lake McConaughy	3,237.1 = 1,023,600ac-ft (58.7% capacity)	3,236.6	3,236.3	3,240.6



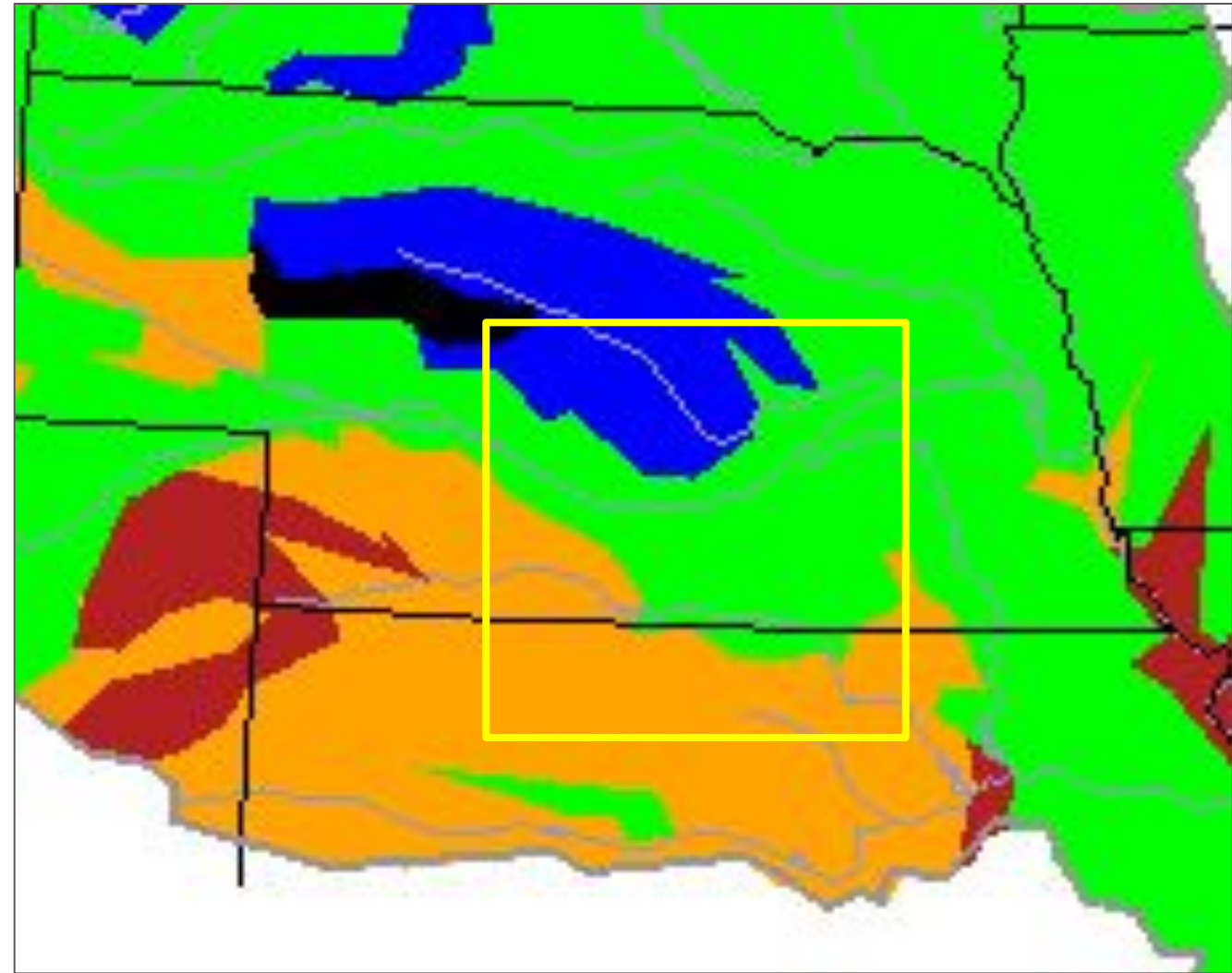
7-Day Average Streamflow

March 1, 2025
3:26 PM

As of Feb. 28

Key Messages

- Most rivers within our forecast area are currently running near-to-below normal streamflow
- An exception of above normal streamflow is noted along the Loup River(s) mainly upstream of St. Paul



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





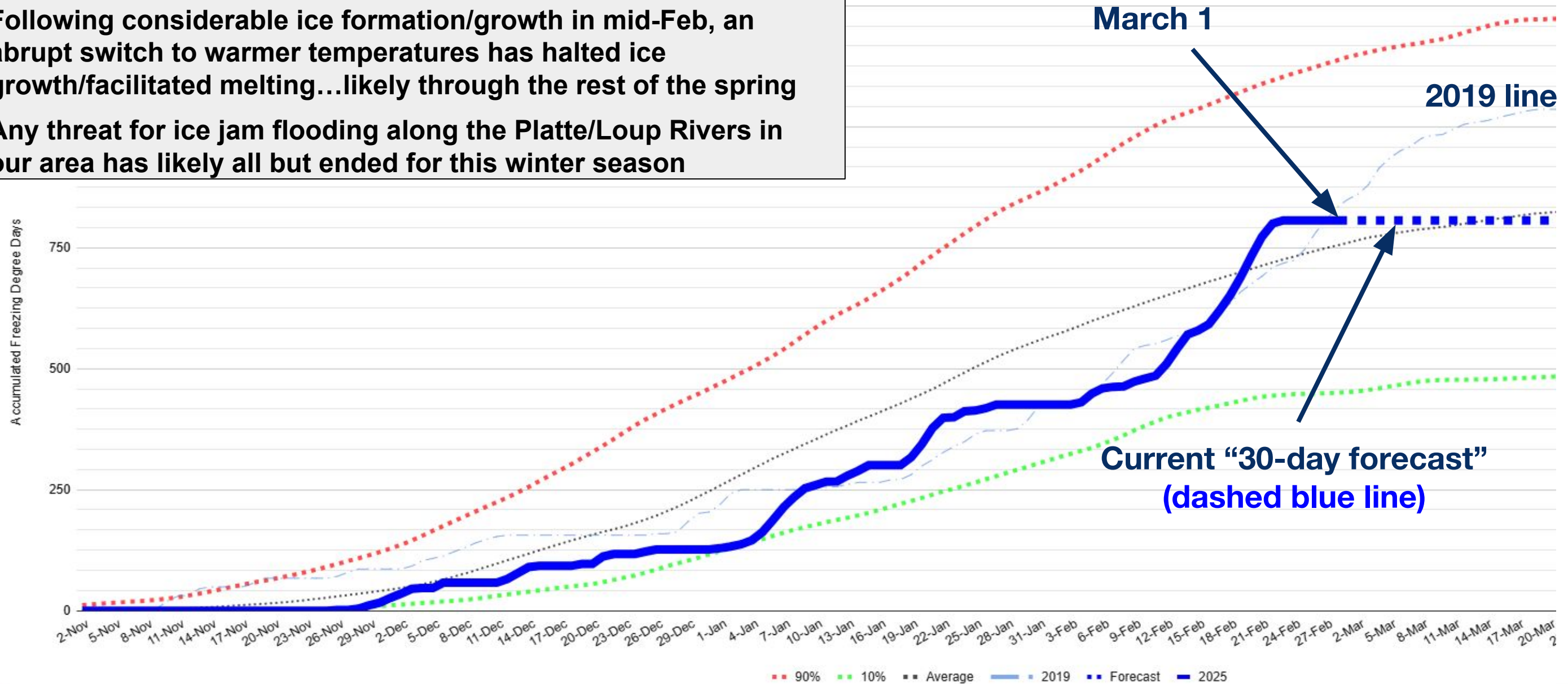
Freezing Degree Days (FDD) at Grand Island

March 1, 2025
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FDD indicates observed trends and future potential for ice growth on area rivers

- Following considerable ice formation/growth in mid-Feb, an abrupt switch to warmer temperatures has halted ice growth/facilitated melting...likely through the rest of the spring
- Any threat for ice jam flooding along the Platte/Loup Rivers in our area has likely all but ended for this winter season

Accumulated Freezing Degree Days for Grand Island, NE





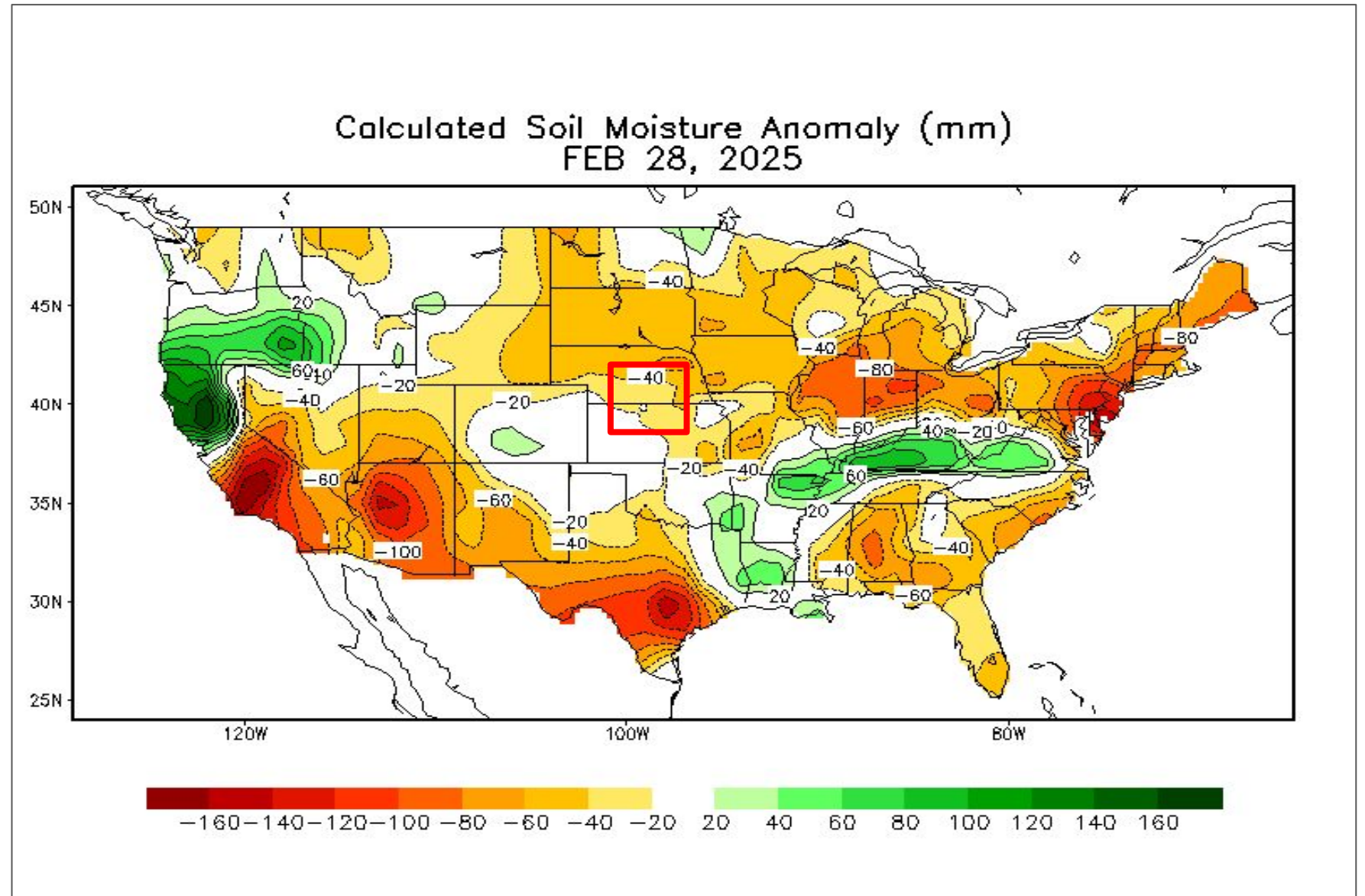
Soil Moisture Versus Normal

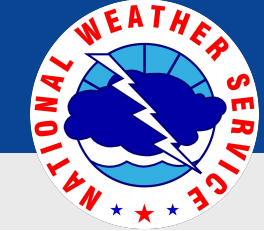
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Slightly Below Normal Prevailing Locally

Key Messages

- At least slightly below normal prevailing over our area
- Soil should be able to absorb spring moisture rather efficiently





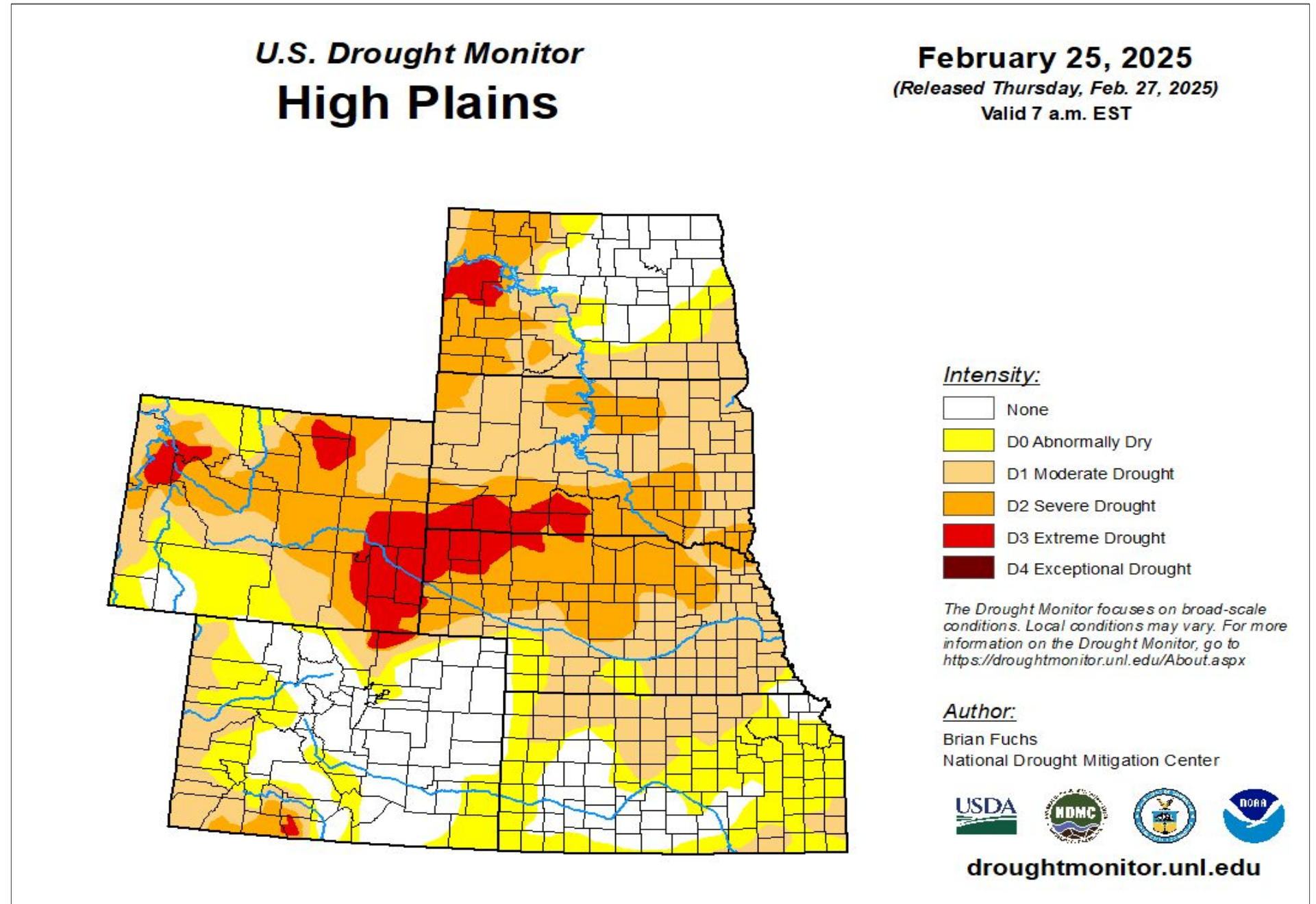
Latest U.S. Drought Monitor (Feb. 25)

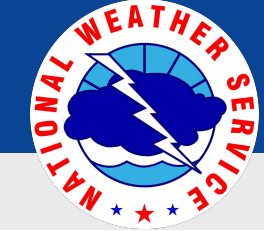
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Mostly Moderate Drought (D1) Across Our Forecast Area

Key Messages

- Mostly Moderate Drought (D1) across our forecast area
- VERY LITTLE change over the last several months
- Soil should be able to absorb spring moisture rather efficiently





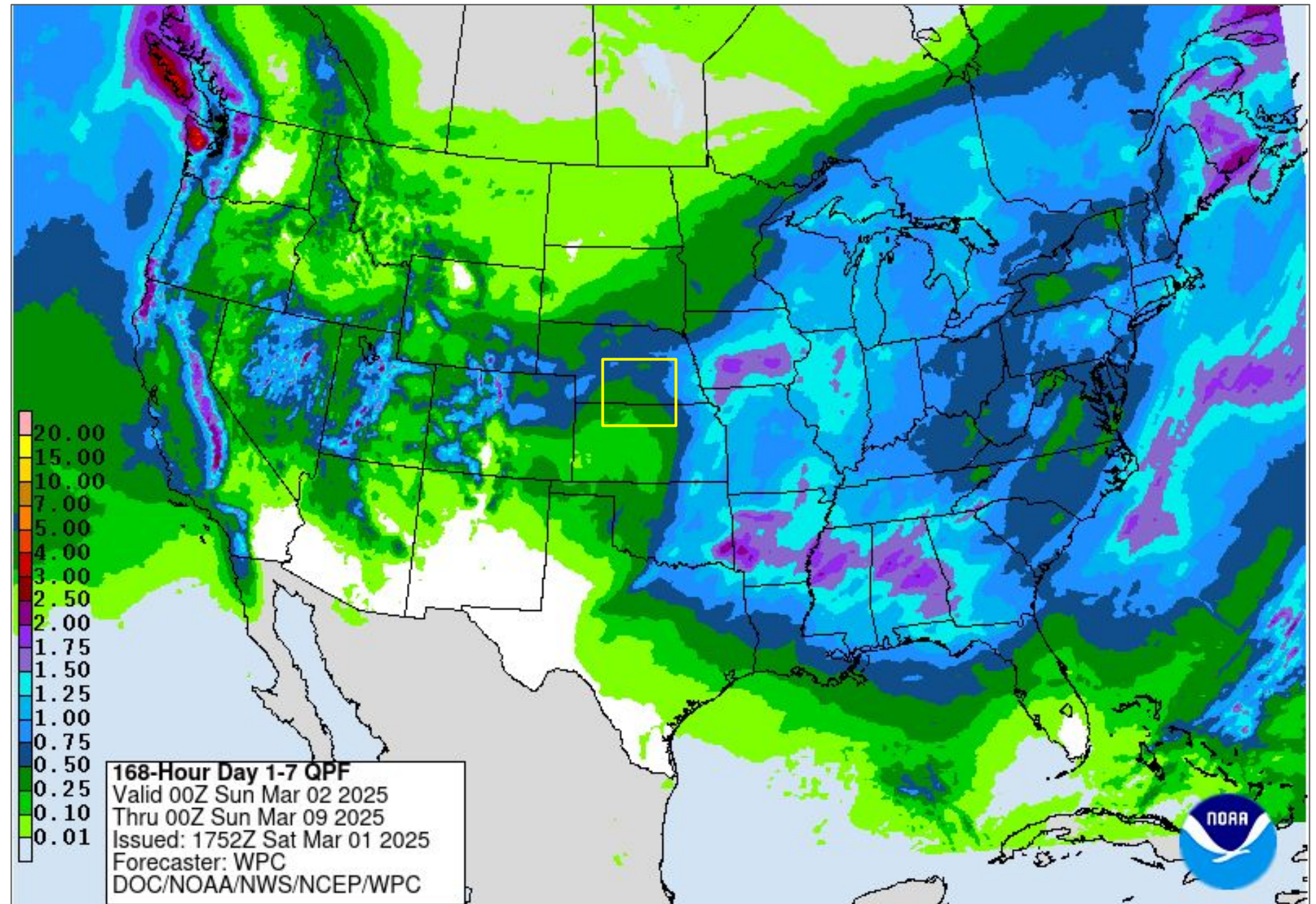
Next 7 Days Total Precip (MARCH 2-8)

March 1, 2025
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A fairly active weather pattern with two primary low pressure systems

Key Messages

- MOST of our forecast area is expected to receive 0.25-0.75" (*mix of rain and snow*)
- The majority of this precipitation is anticipated to fall Mon night-Tues night (*March 3-5*)
- Especially with soil continuing to thaw, currently not expecting enough precipitation to cause flooding concerns





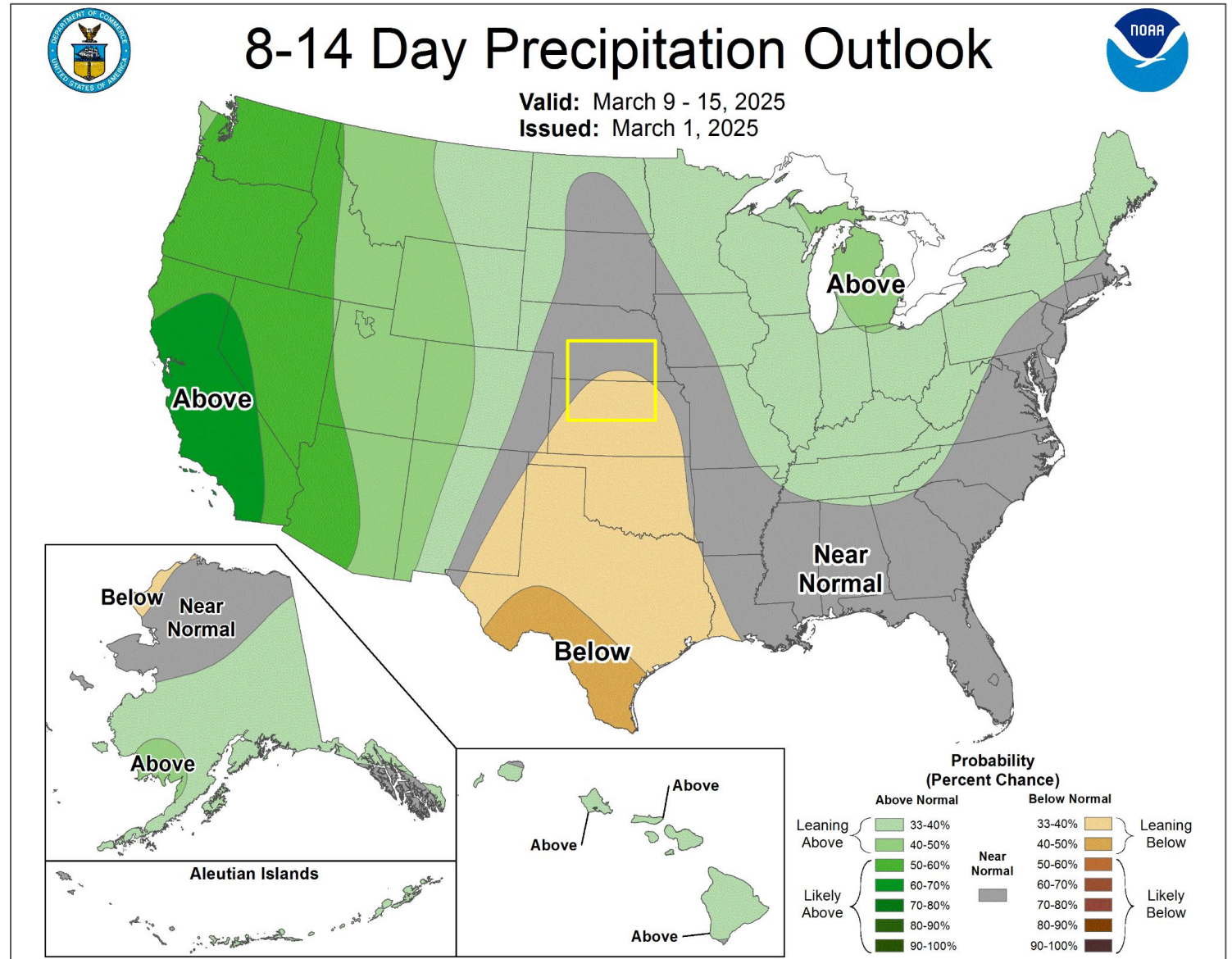
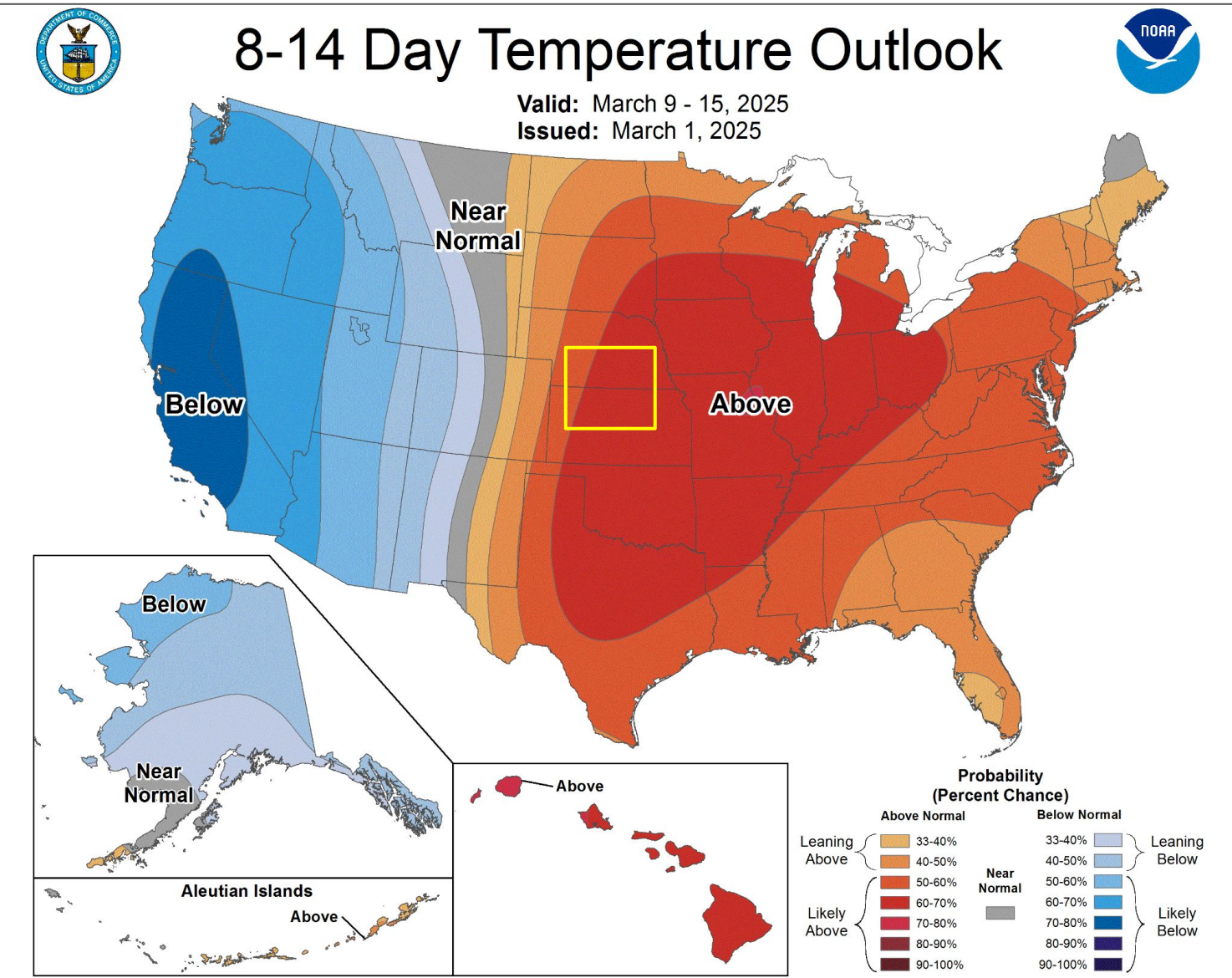
8-14 Day Outlook (MARCH 9-15)

March 1, 2025
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Above normal temperatures likely...slight lean toward below normal precip

March 9-15

March 9-15





One-Month Outlook (MARCH)

March 1, 2025
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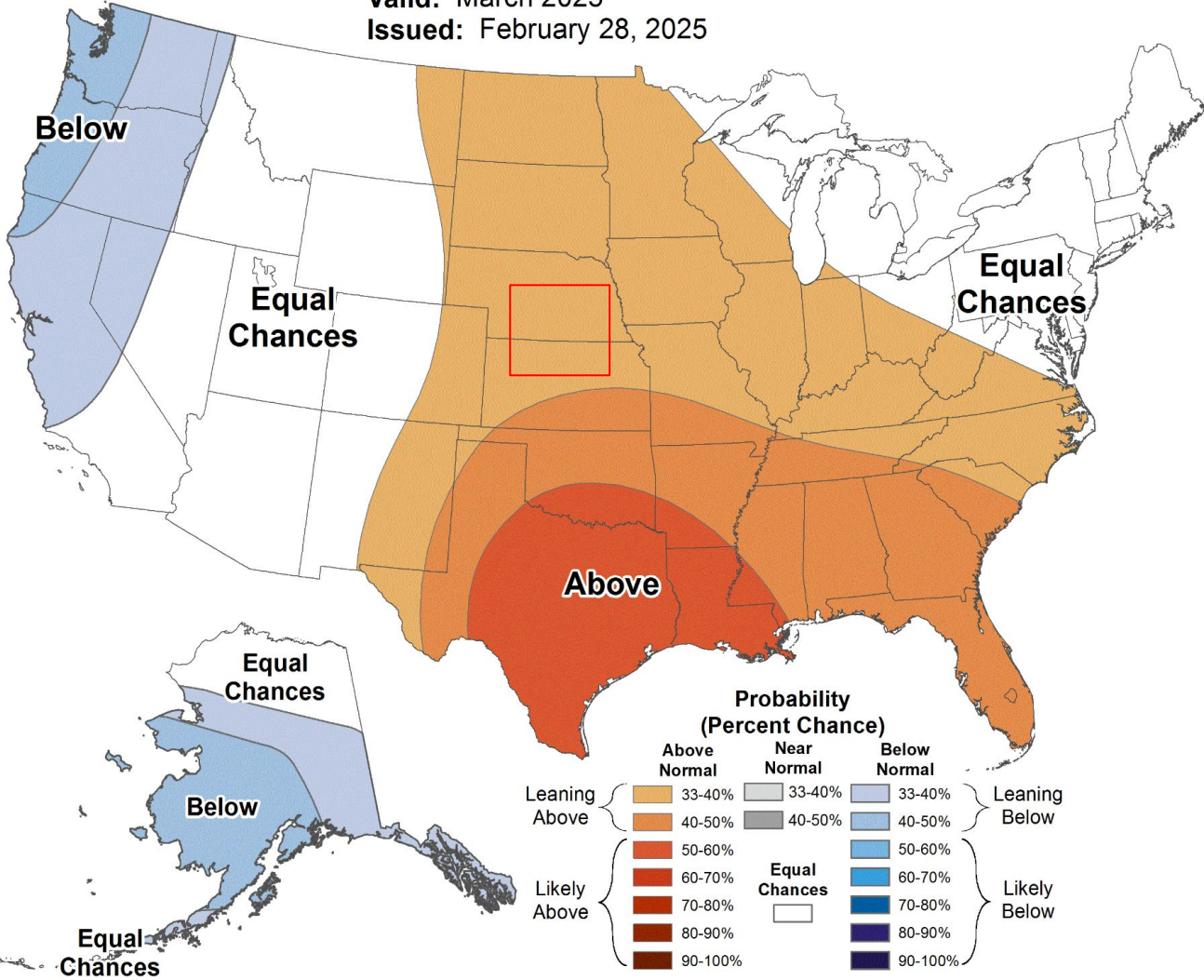
Slight lean toward above normal temps...no clear signal regarding precipitation

March

March

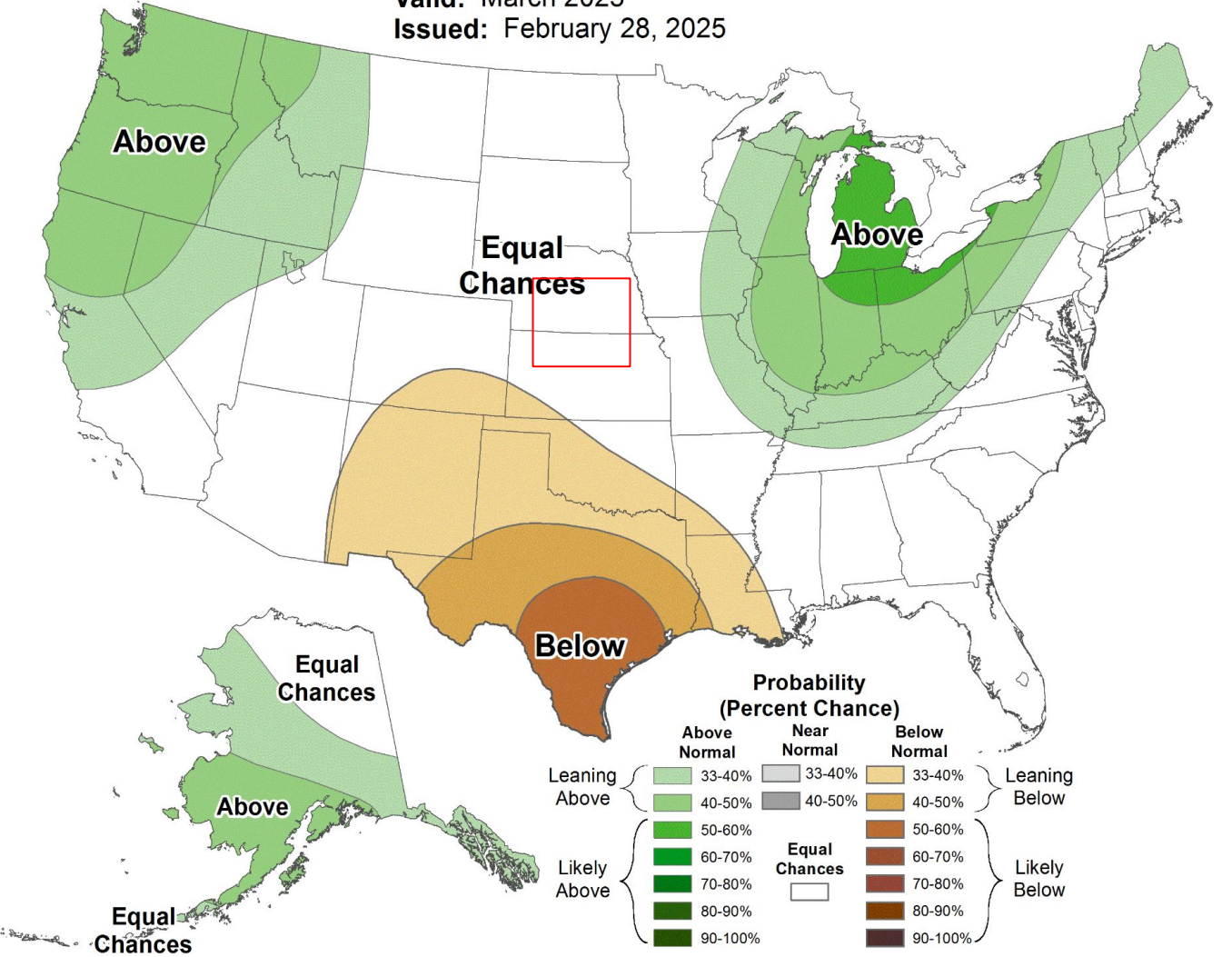
Monthly Temperature Outlook

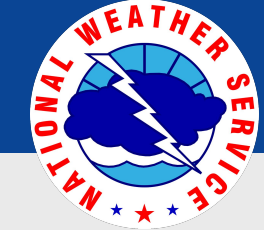
Valid: March 2025
Issued: February 28, 2025



Monthly Precipitation Outlook

Valid: March 2025
Issued: February 28, 2025





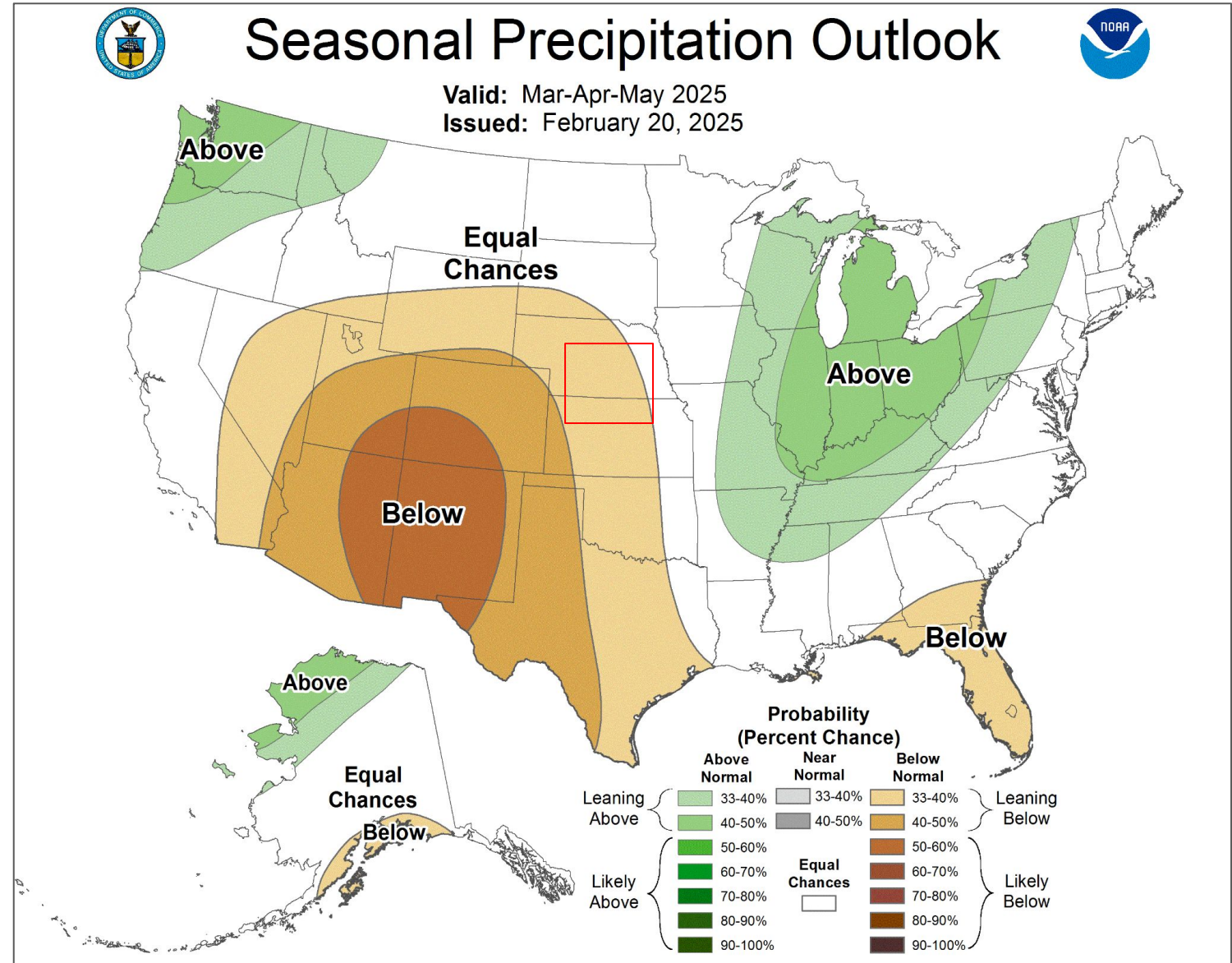
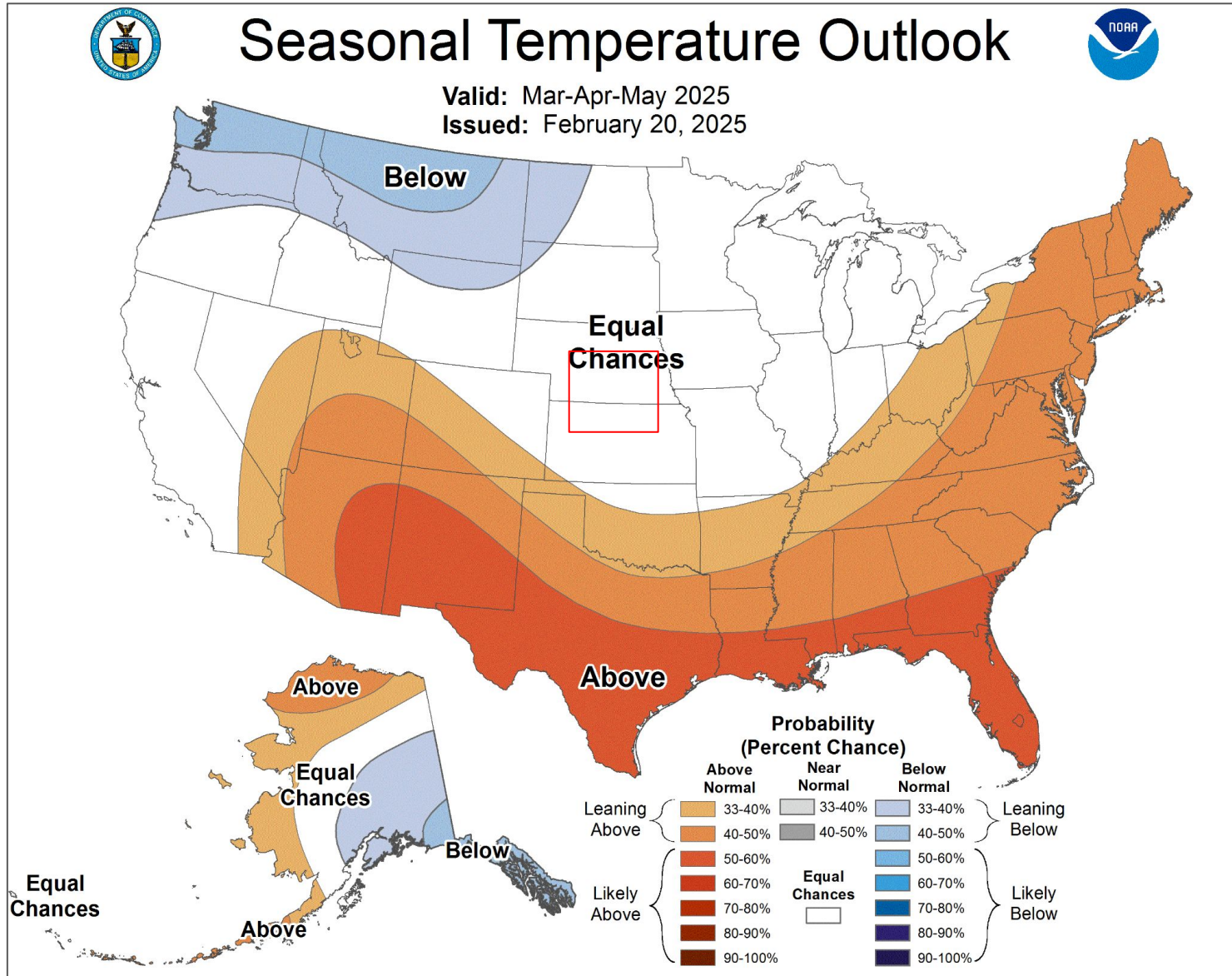
Three Month Outlook (MARCH-MAY)

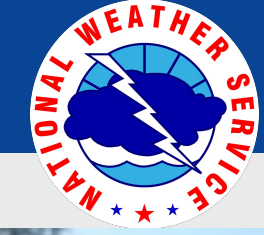
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Slight lean toward below normal precip...no clear signal regarding temperatures

March - May

March - May

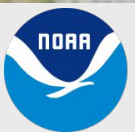




This Concludes 2025 Spring Flood Outlook #2

March 1, 2025
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NEXT ISSUANCE: Thursday, March 13, 2025



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U.S. Department of Commerce

**National Weather Service
Hastings, NE**