

MAC-T Monthly Call

Midwest Agriculture & Climate Team

5 June 2024

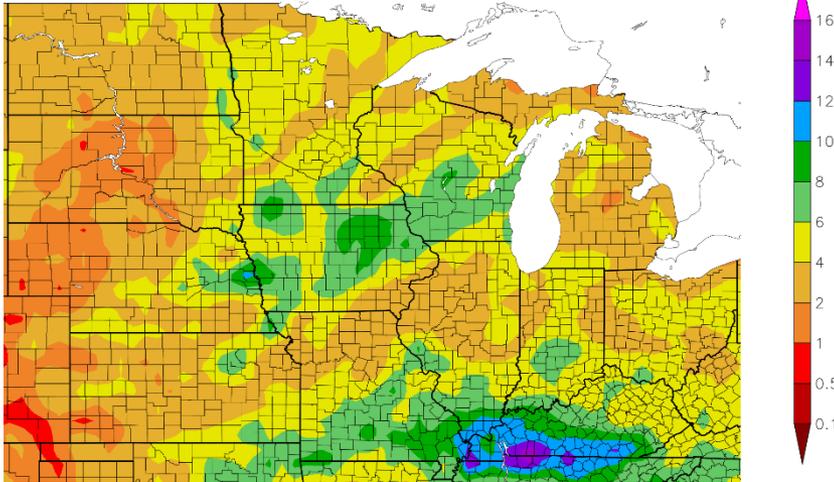
For more information:

Dennis.todey@usda.gov



Midwest Climate Hub
U.S. DEPARTMENT OF AGRICULTURE

Precipitation (in)
5/5/2024 – 6/3/2024



Monthly Precip

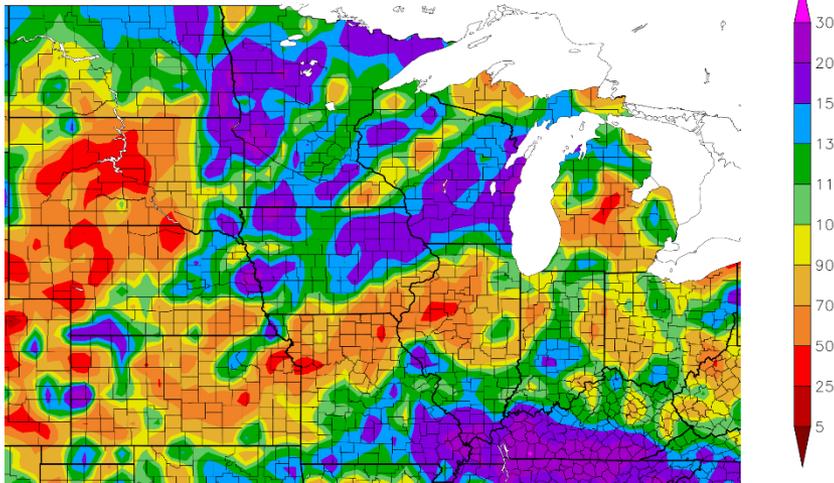
- 4-8" of total precipitation was common across the region.
- KY had the highest totals → >10" for some.
 - >200% of 30-year normal.
- Drier out to the west in the Dakotas and Nebraska → <2" in large areas.
 - <50% of 30-year normal.
- Most are at or above normal for the year in the corn belt.

<https://hprcc.unl.edu/maps.php?map=ACISClimateMaps>

Generated 6/4/2024 at HPRCC using provisional data.

NOAA Regional Climate Centers

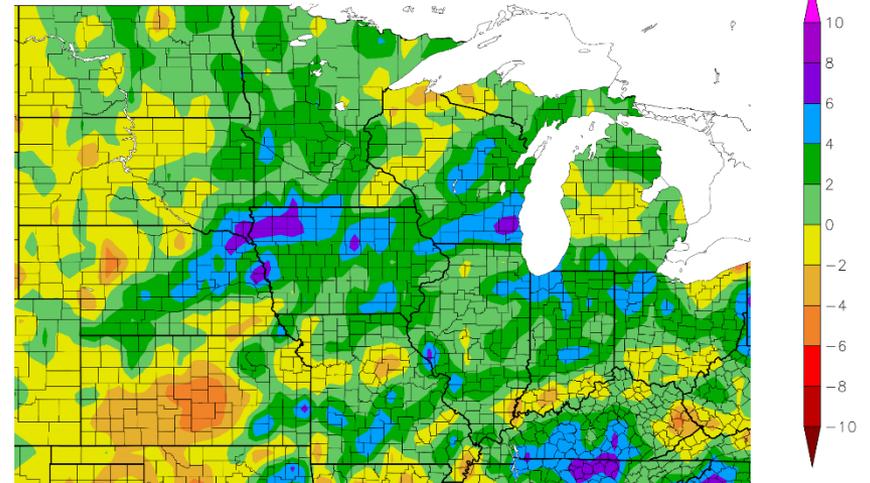
Percent of Normal Precipitation (%)
5/5/2024 – 6/3/2024



Generated 6/4/2024 at HPRCC using provisional data.

NOAA Regional Climate Centers

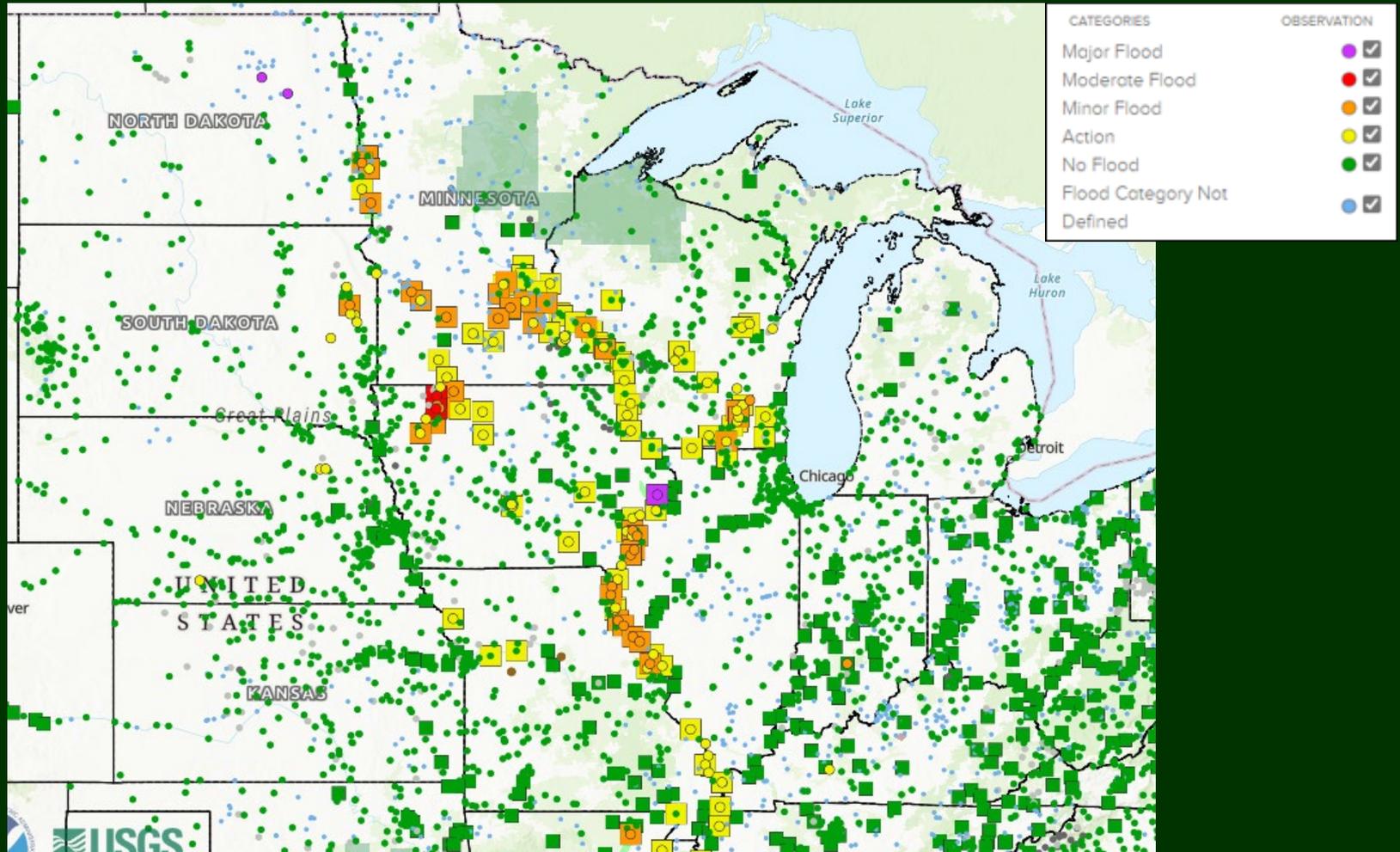
Departure from Normal Precipitation (in)
1/1/2024 – 6/2/2024



Generated 6/3/2024 at HPRCC using provisional data.

NOAA Regional Climate Centers

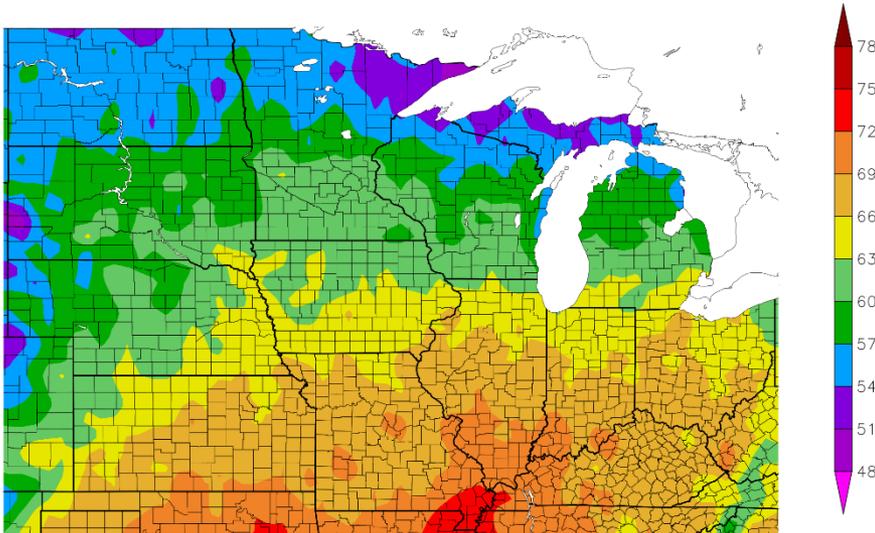
River Levels



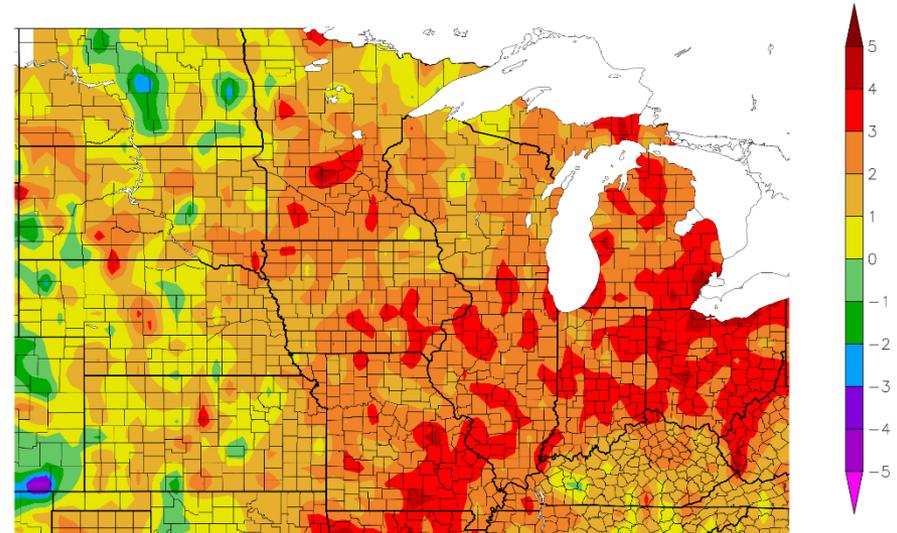
- Action or minor flood stage with the recent rainfall.

Monthly Temps

Temperature (F)
5/5/2024 – 6/3/2024



Departure from Normal Temperature (F)
5/5/2024 – 6/3/2024



Generated 6/4/2024 at HPRCC using provisional data.

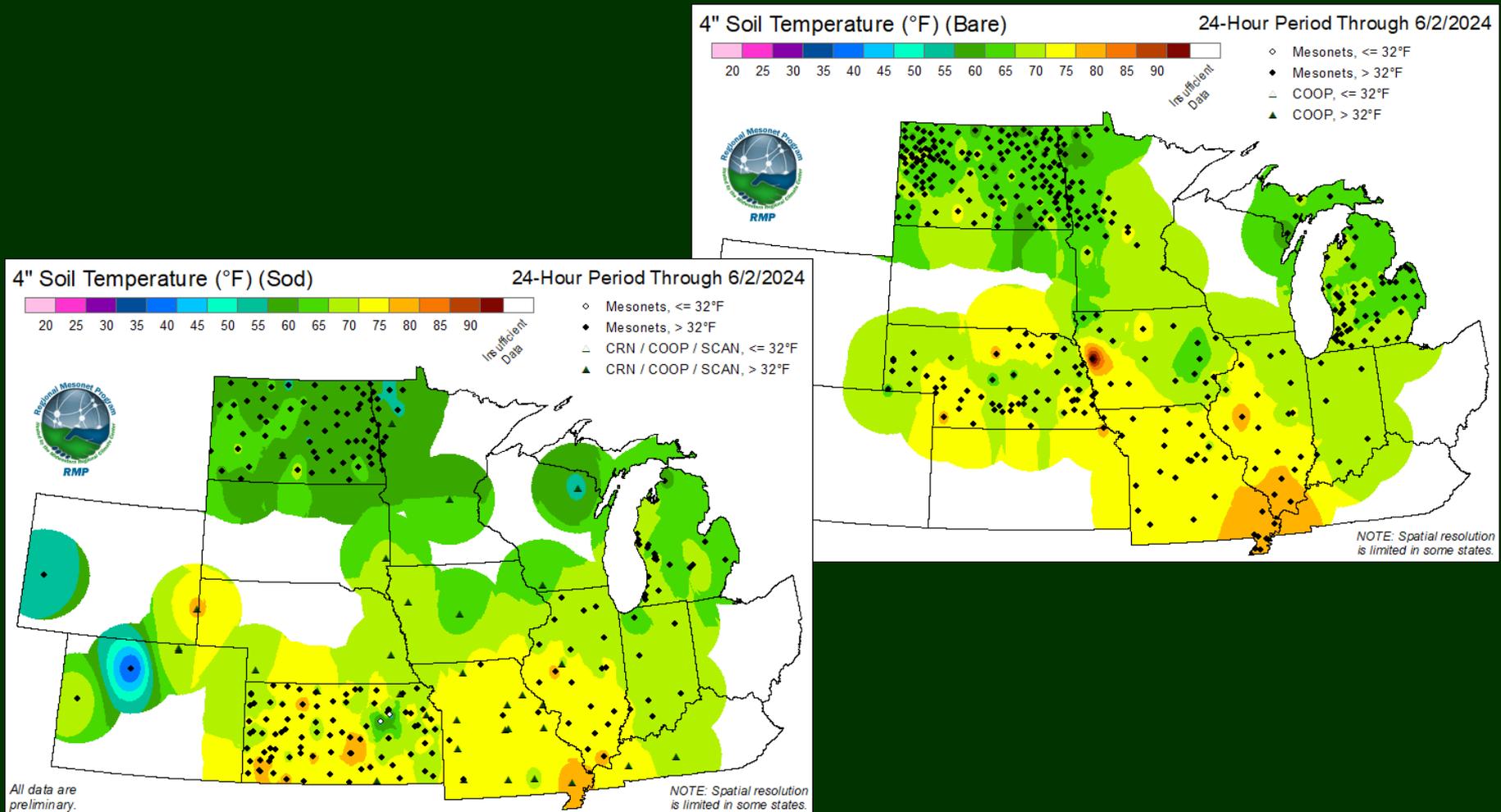
NOM Regional Climate Centers

Generated 6/4/2024 at HPRCC using provisional data.

NOM Regional Climate Centers

- Near or above-average temps region-wide
 - 2-4°F above normal for most in the central and east
 - Closer to average out in the Great Plains
 - Range from the mid 50s (N) to the low 70s (S)

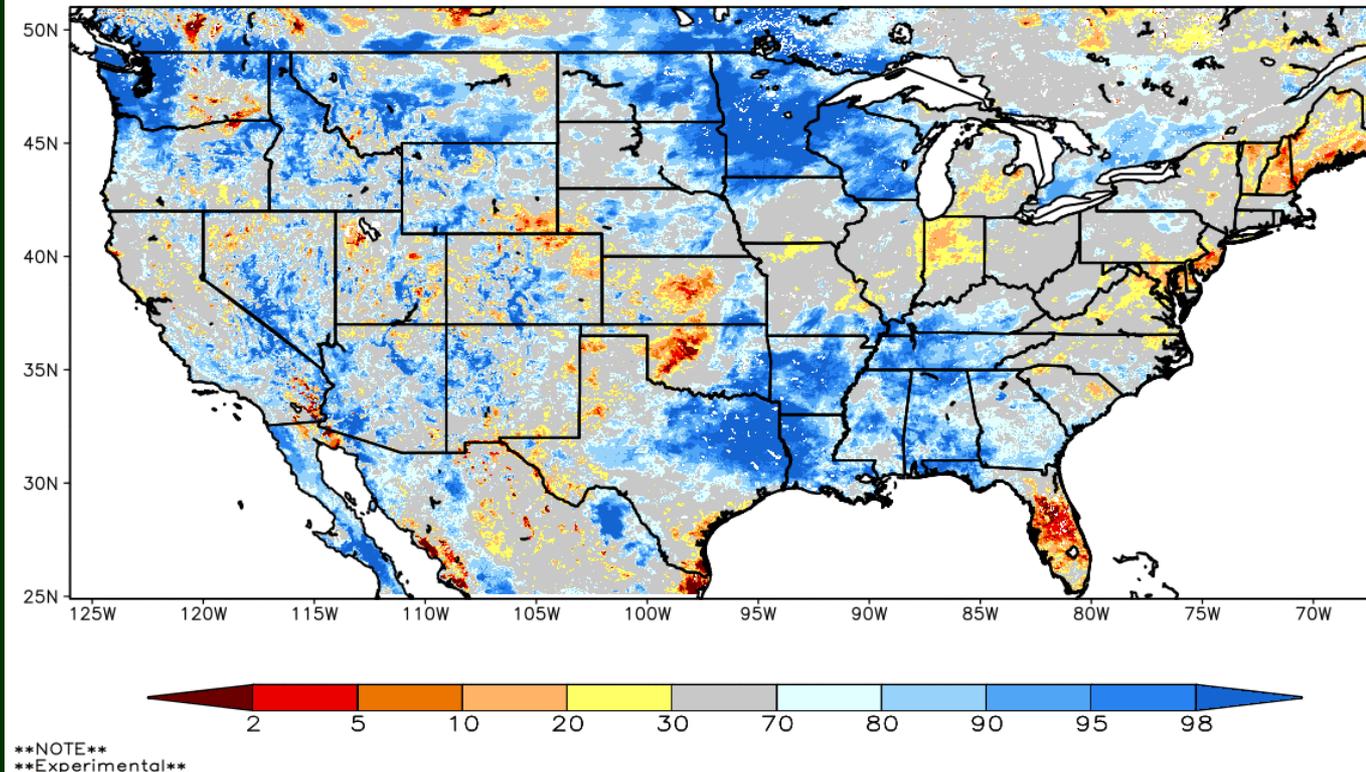
Soil Temps



- Range from 75-80°F in the S to 55-60°F in the N

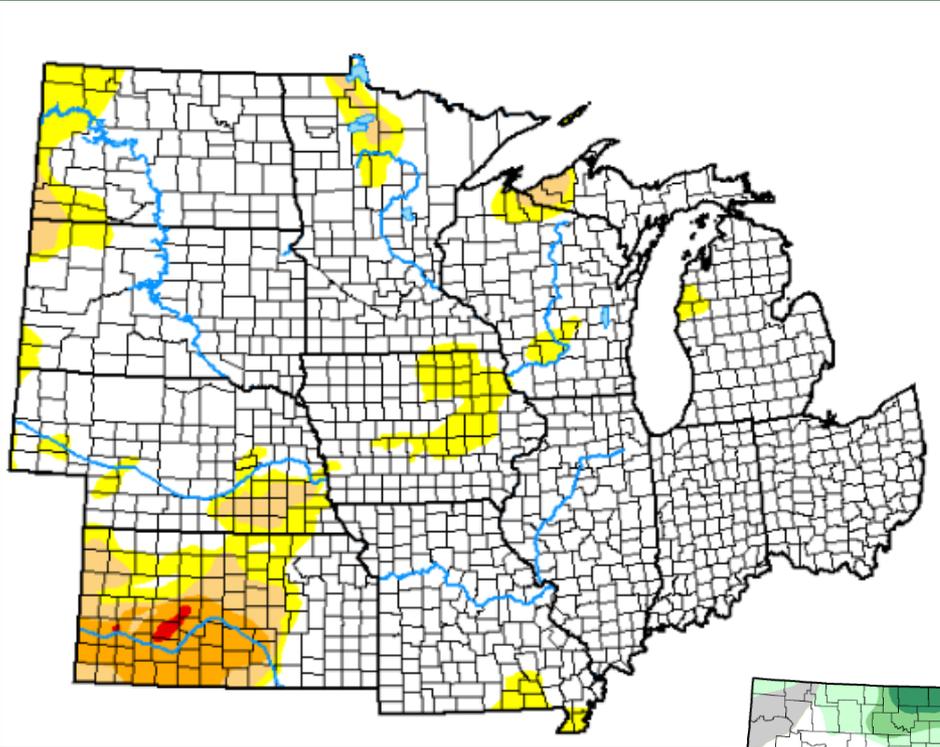
Soil Moisture

SPoRT-LIS 0-100 cm Soil Moisture percentile valid 04 Jun 2024



- Higher moisture levels across WI/MN/eastern Dakotas, as well as KY/southern MO.
- Drier pockets in central KS and IN/MI.

US Drought Monitor



May 28, 2024
 (Released Thursday, May. 30, 2024)
 Valid 8 a.m. EDT

Drought Conditions (Percent Area)

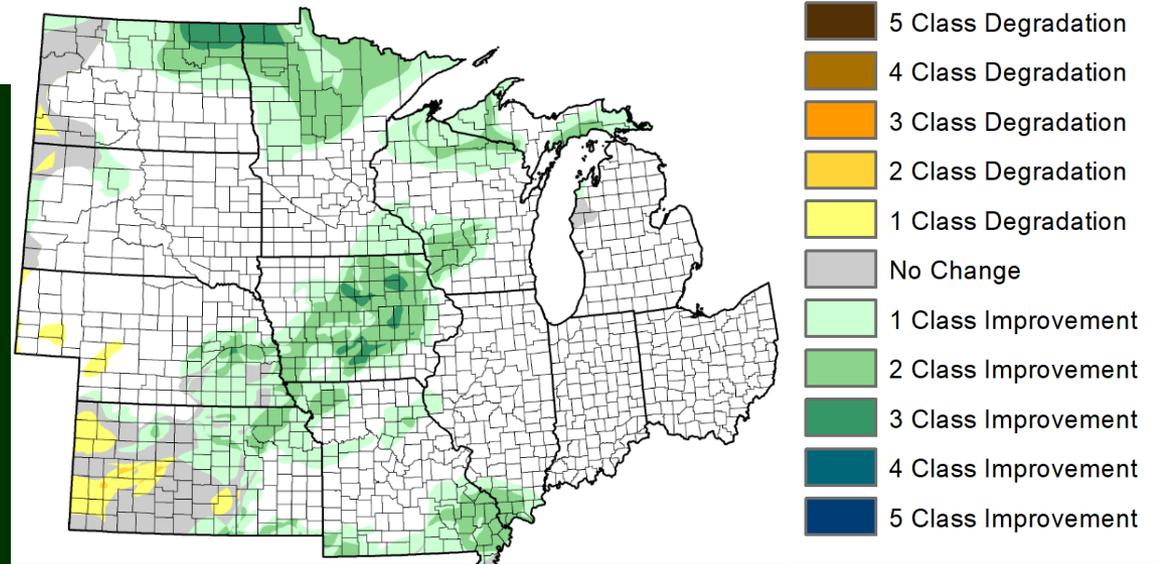
	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	83.61	16.39	6.71	2.93	0.15	0.00
Last Week 05-21-2024	79.42	20.58	9.86	2.86	0.04	0.00
3 Months Ago 02-27-2024	30.88	69.12	30.39	9.10	1.39	0.00
Start of Calendar Year 01-02-2024	37.52	62.48	38.54	16.91	3.77	0.02
Start of Water Year 09-26-2023	25.87	74.13	49.98	25.16	7.67	0.73
One Year Ago 05-30-2023	29.69	70.31	29.68	16.30	8.83	4.53

Intensity:

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

- Drought remains an issue in KS (as high as D3).
- Widespread regional improvements of 1-3 classes where May precip was higher-than-average.
- <7% in drought!

**5/28/24
 compared to
 4/30/24**



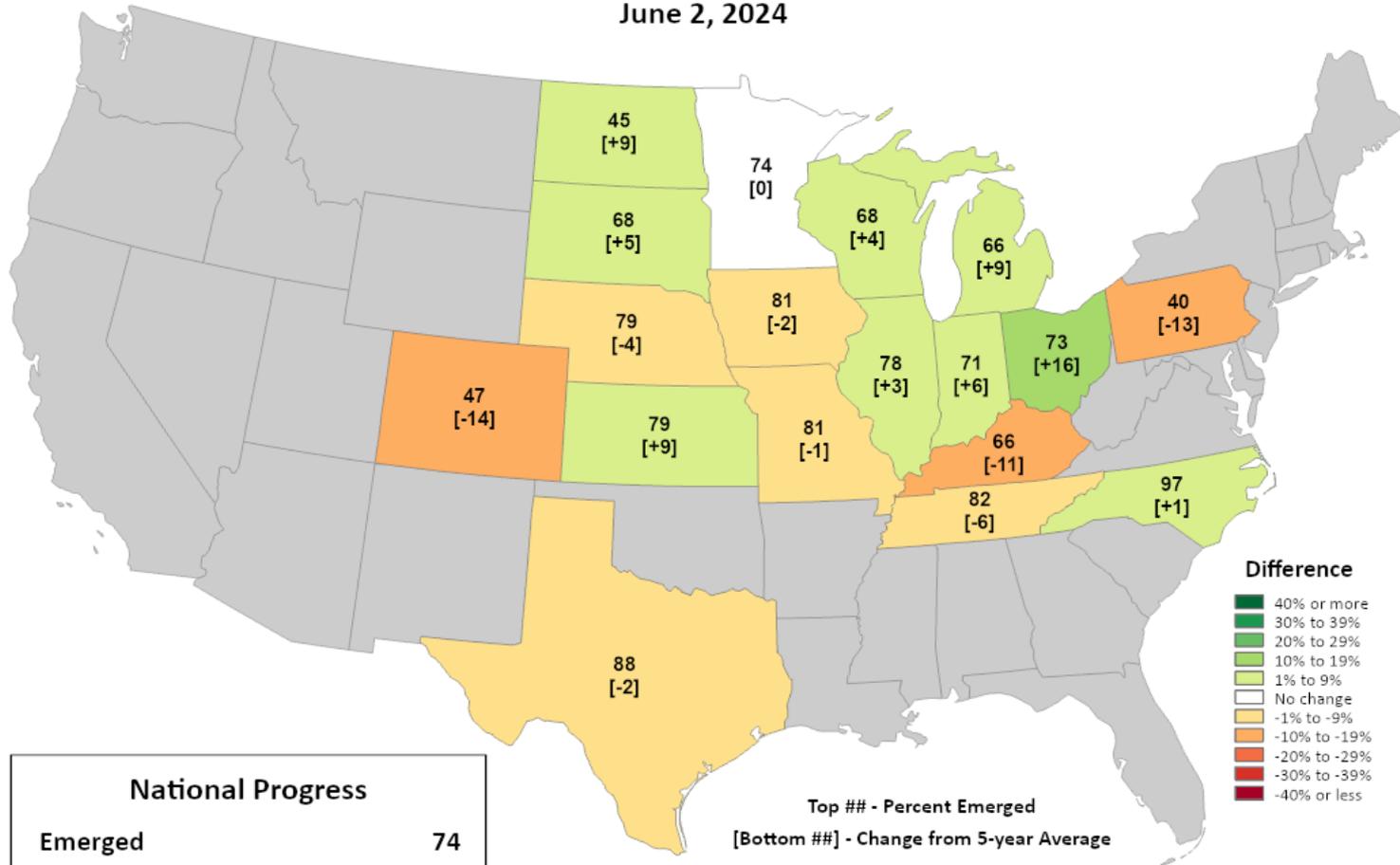
Crop Progress - Corn



This product was prepared by the
USDA Office of the Chief Economist (OCE)
World Agricultural Outlook Board (WAOB)

Corn Progress Percent Emerged

June 2, 2024



National Progress	
Emergded	74
Change from 5-year Average	+1

Top ## - Percent Emerged
[Bottom ##] - Change from 5-year Average

- Difference**
- 40% or more
 - 30% to 39%
 - 20% to 29%
 - 10% to 19%
 - 1% to 9%
 - No change
 - 1% to -9%
 - 10% to -19%
 - 20% to -29%
 - 30% to -39%
 - 40% or less

Data obtained from USDA National Agricultural Statistics Service weekly Crop Progress reports.

Crop Progress - Soybean

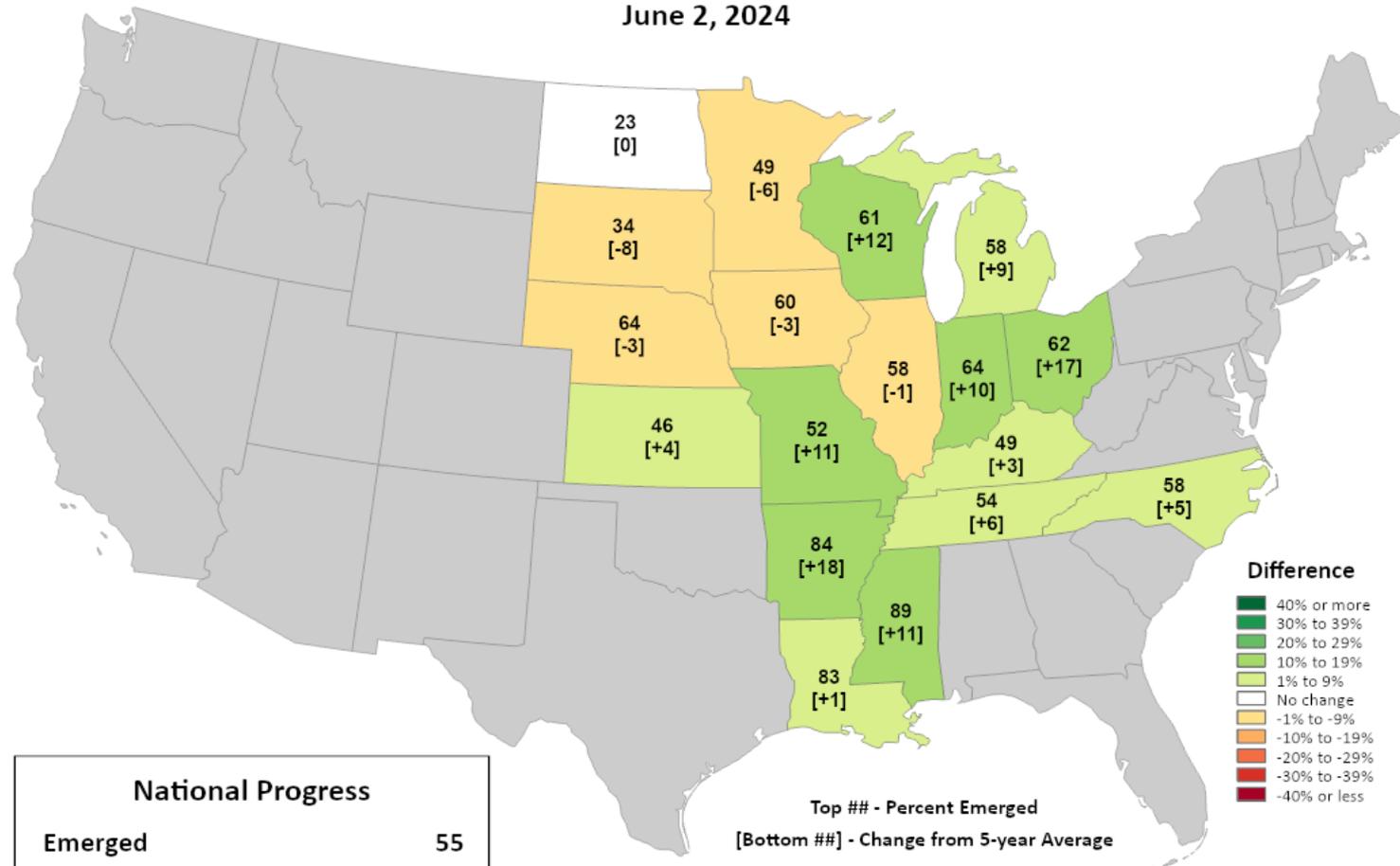


This product was prepared by the
USDA Office of the Chief Economist (OCE)
World Agricultural Outlook Board (WAOB)

Soybeans Progress

Percent Emerged

June 2, 2024



Data obtained from USDA National Agricultural Statistics Service weekly Crop Progress reports.

Crop Progress - Oats

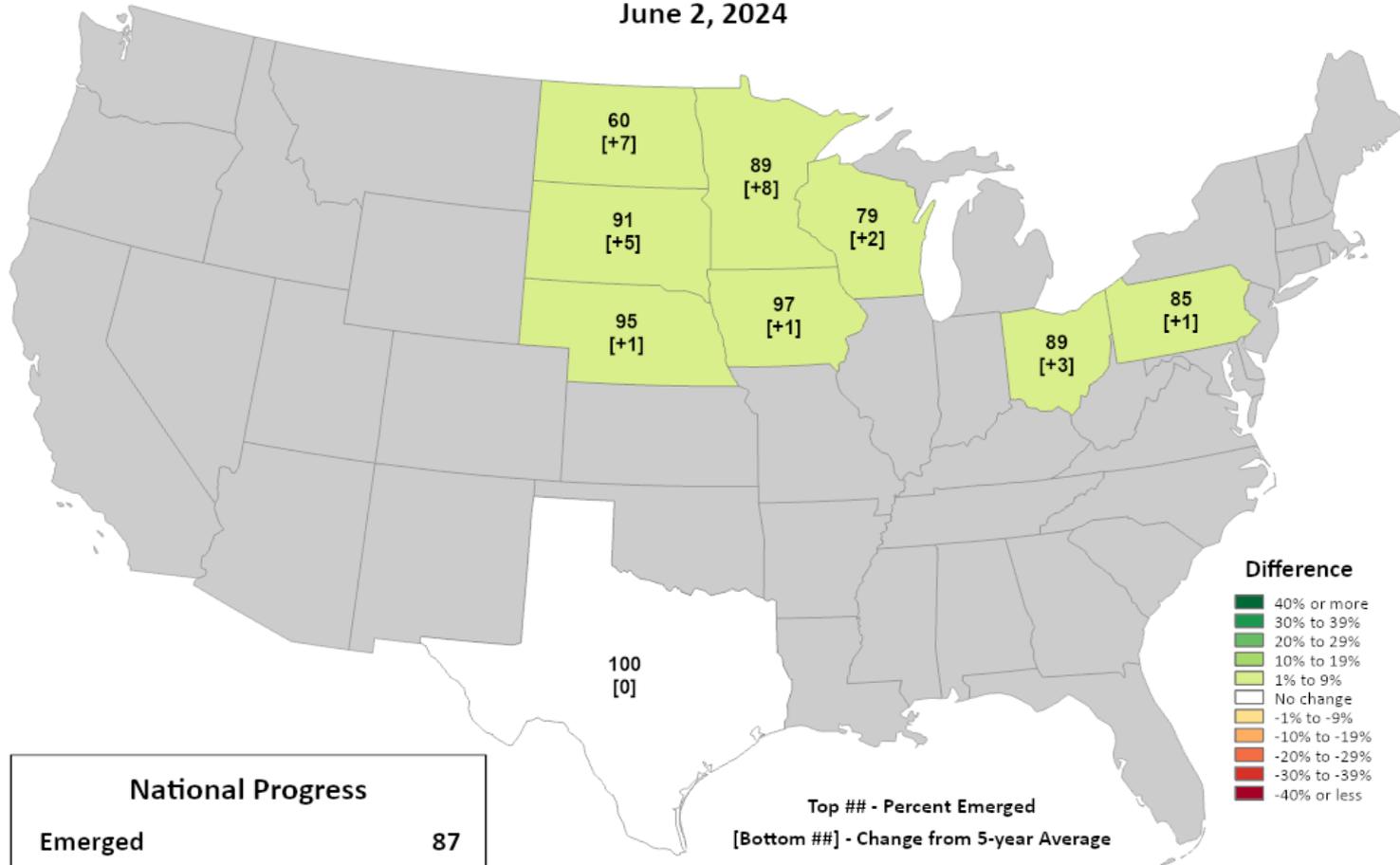


This product was prepared by the
USDA Office of the Chief Economist (OCE)
World Agricultural Outlook Board (WAOB)

Oats Progress

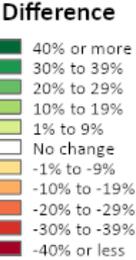
Percent Emerged

June 2, 2024



National Progress	
Emergenced	87
Change from 5-year Average	+4

Top ## - Percent Emerged
[Bottom ##] - Change from 5-year Average



Data obtained from USDA National Agricultural Statistics Service weekly Crop Progress reports.

Crop Progress – W. Wheat

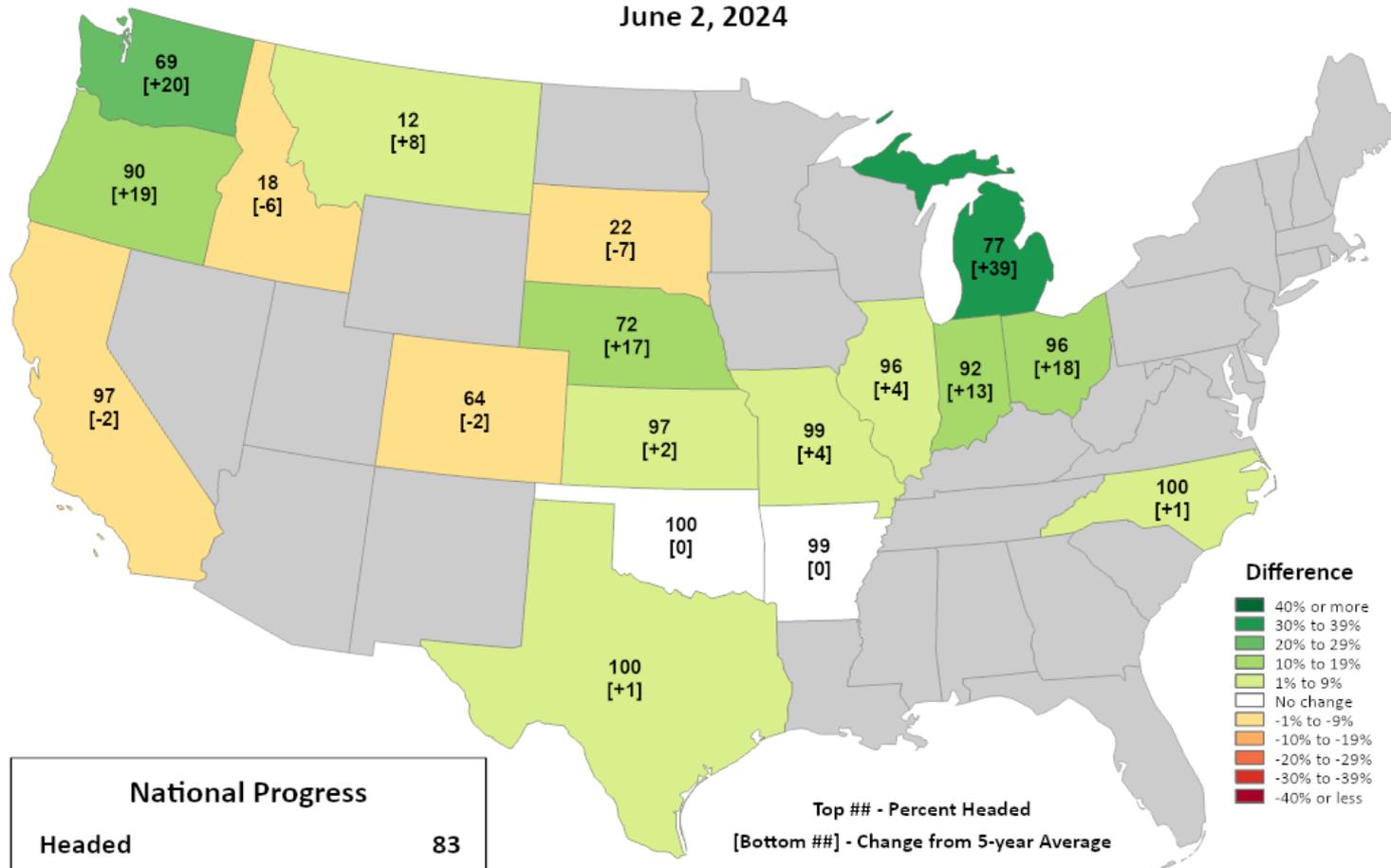


This product was prepared by the
 USDA Office of the Chief Economist (OCE)
 World Agricultural Outlook Board (WAOB)

Winter Wheat Progress

Percent Headed

June 2, 2024



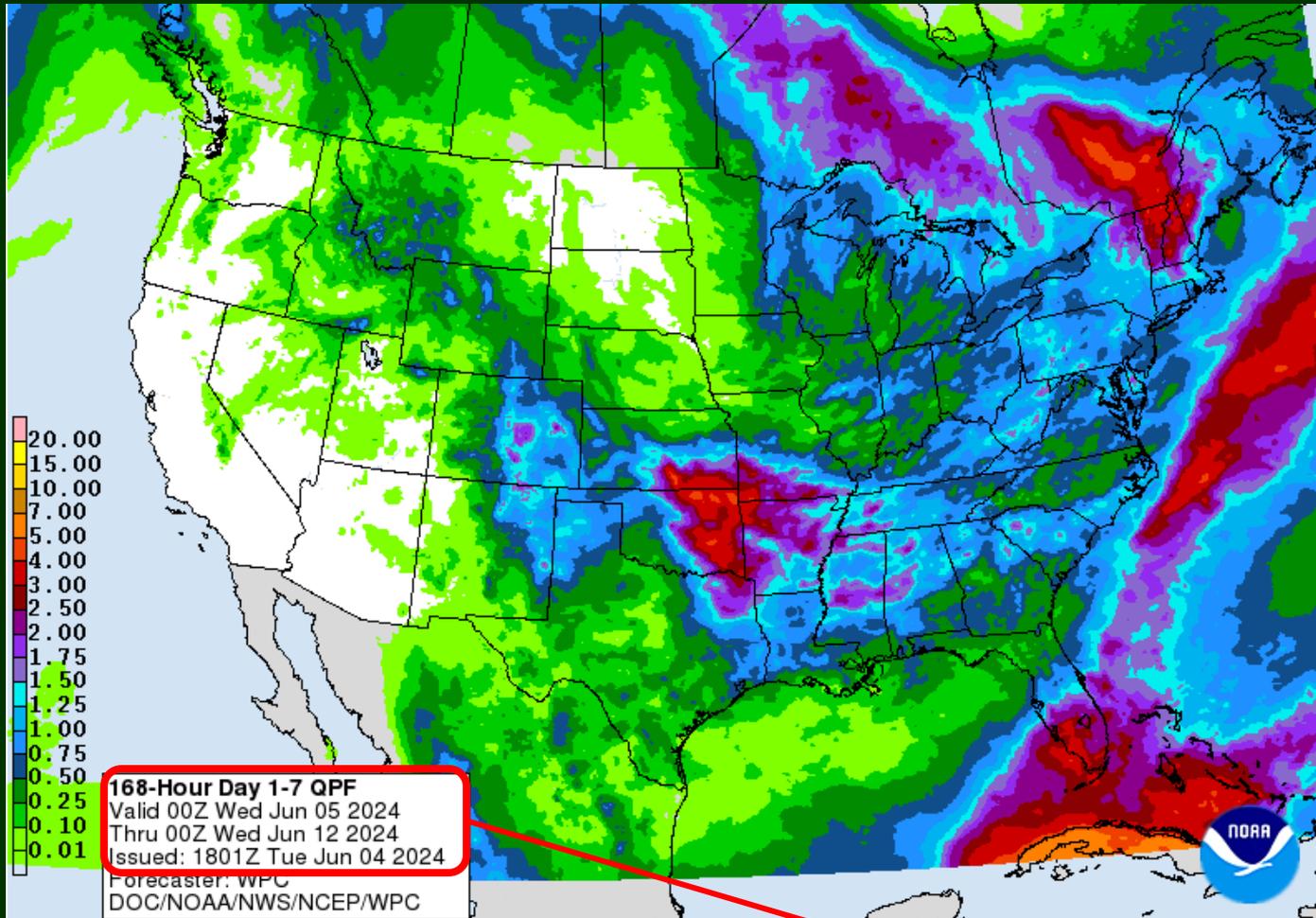
National Progress	
Headed	83
Change from 5-year Average	+5

Top ## - Percent Headed
 [Bottom ##] - Change from 5-year Average

Data obtained from USDA National Agricultural Statistics Service weekly Crop Progress reports.

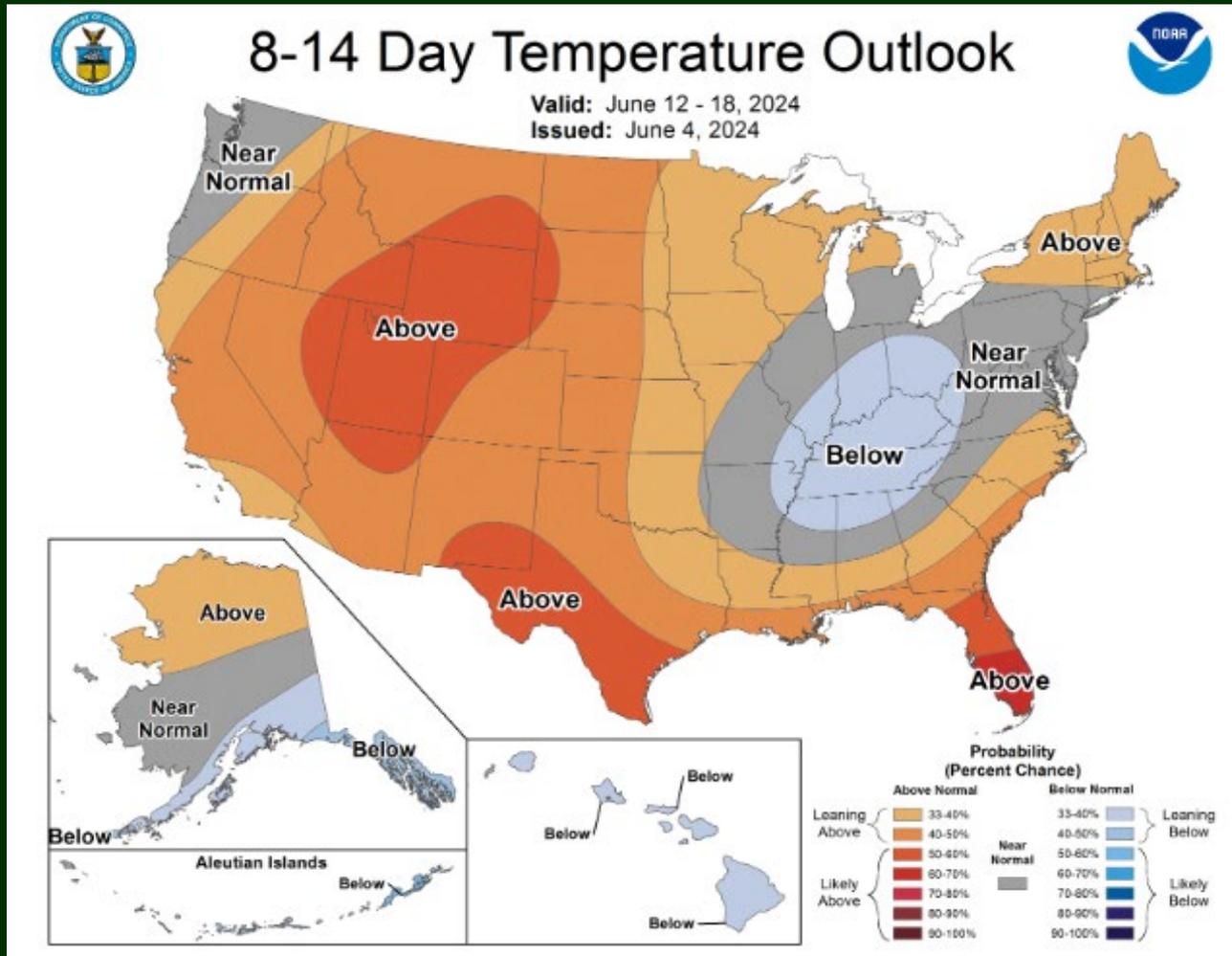
1-7 Day Precip Forecast

- Rain chances exist region-wide with multiple rounds of rain next week.
- 7-day totals of 2-4" or more are possible in southern KS and MO.



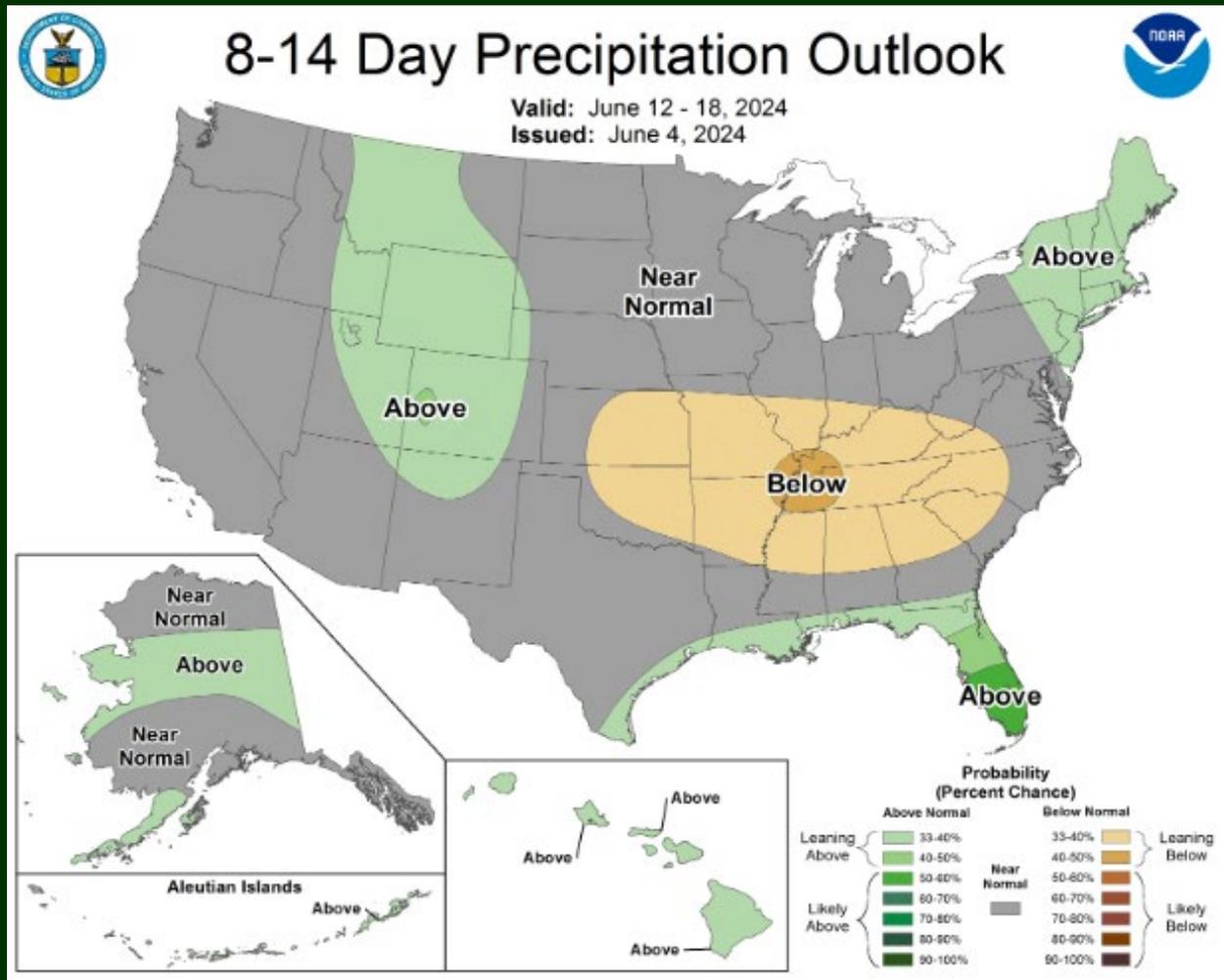
Forecast for 6/5/24 thru 6/12/24
(12Z = 7am CDT)

Temperature Outlook



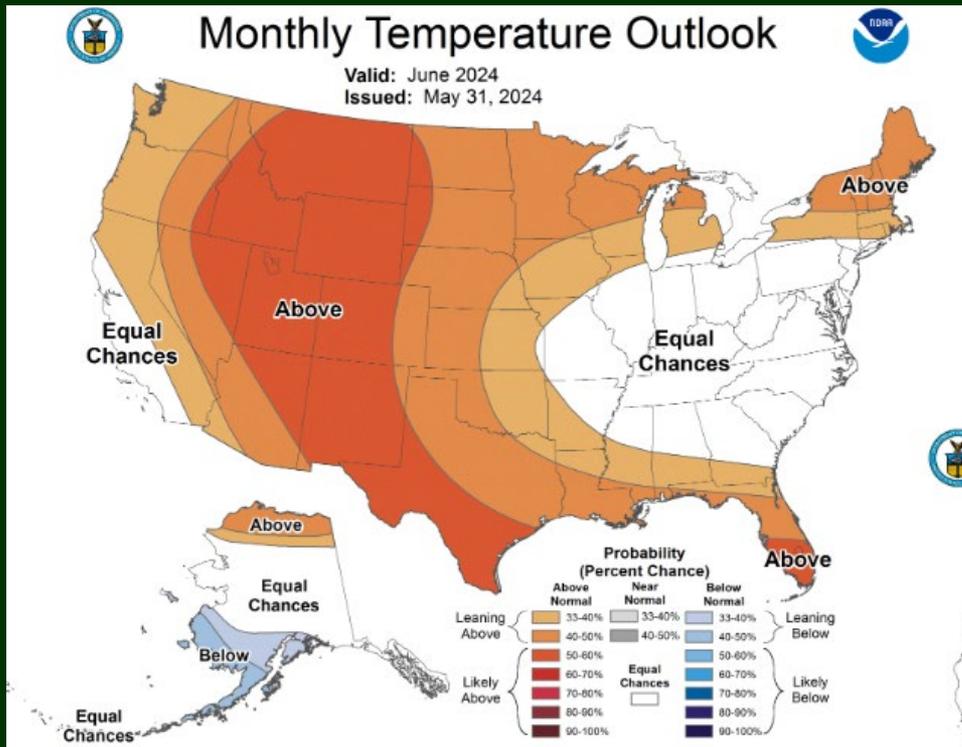
- Temperatures probabilities leaning near-to-above average for most.
- Leaning colder-than-average in the Ohio Valley.

Precipitation Outlook

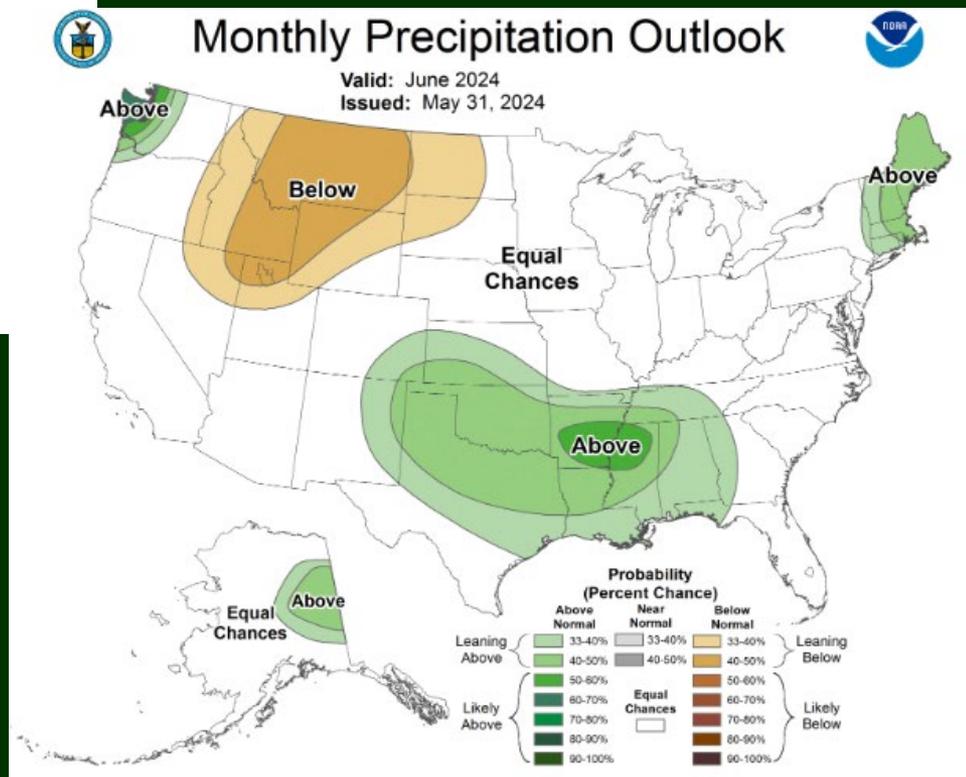


- Leaning towards near normal precipitation for most.
- Probabilities higher for below normal precipitation from KY over to eastern KS.

1-Month Outlook



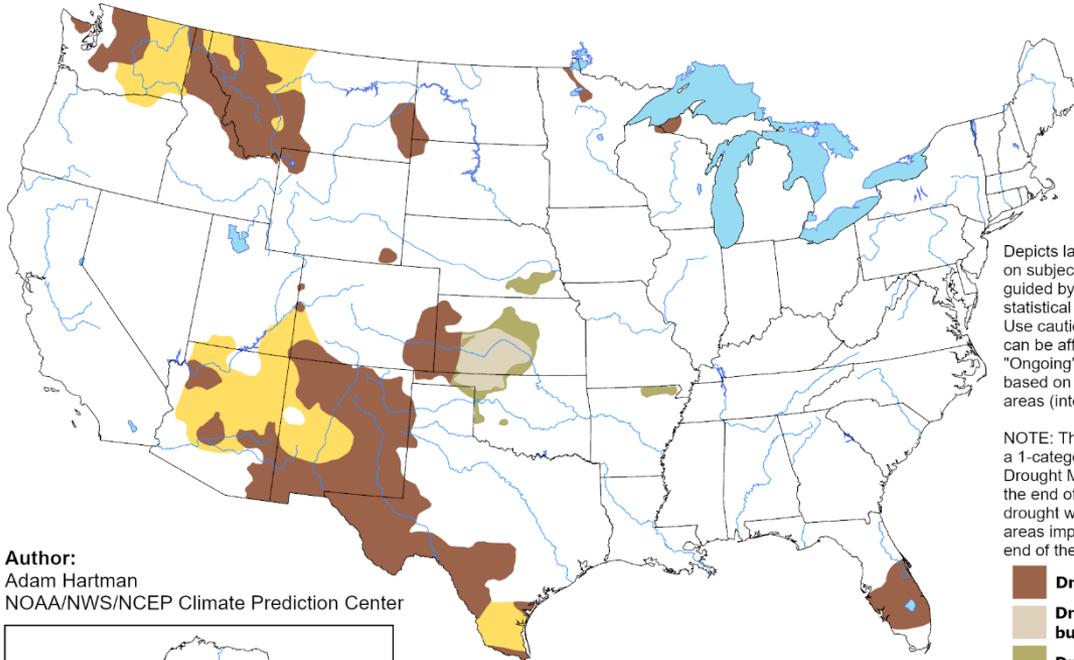
- Leaning above normal temps in the Great Plains and in the northern Great Lakes states. Equal chances elsewhere.
- Equal precip chances for most. Leaning below normal in the Dakotas and above normal in Kansas.



Drought in the Midwest/Plains

U.S. Monthly Drought Outlook Drought Tendency During the Valid Period

Valid for June 2024
Released May 31, 2024

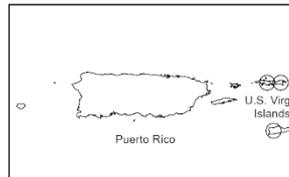
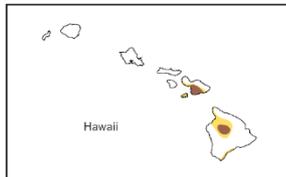


Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to 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:
Adam Hartman
NOAA/NWS/NCEP Climate Prediction Center



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

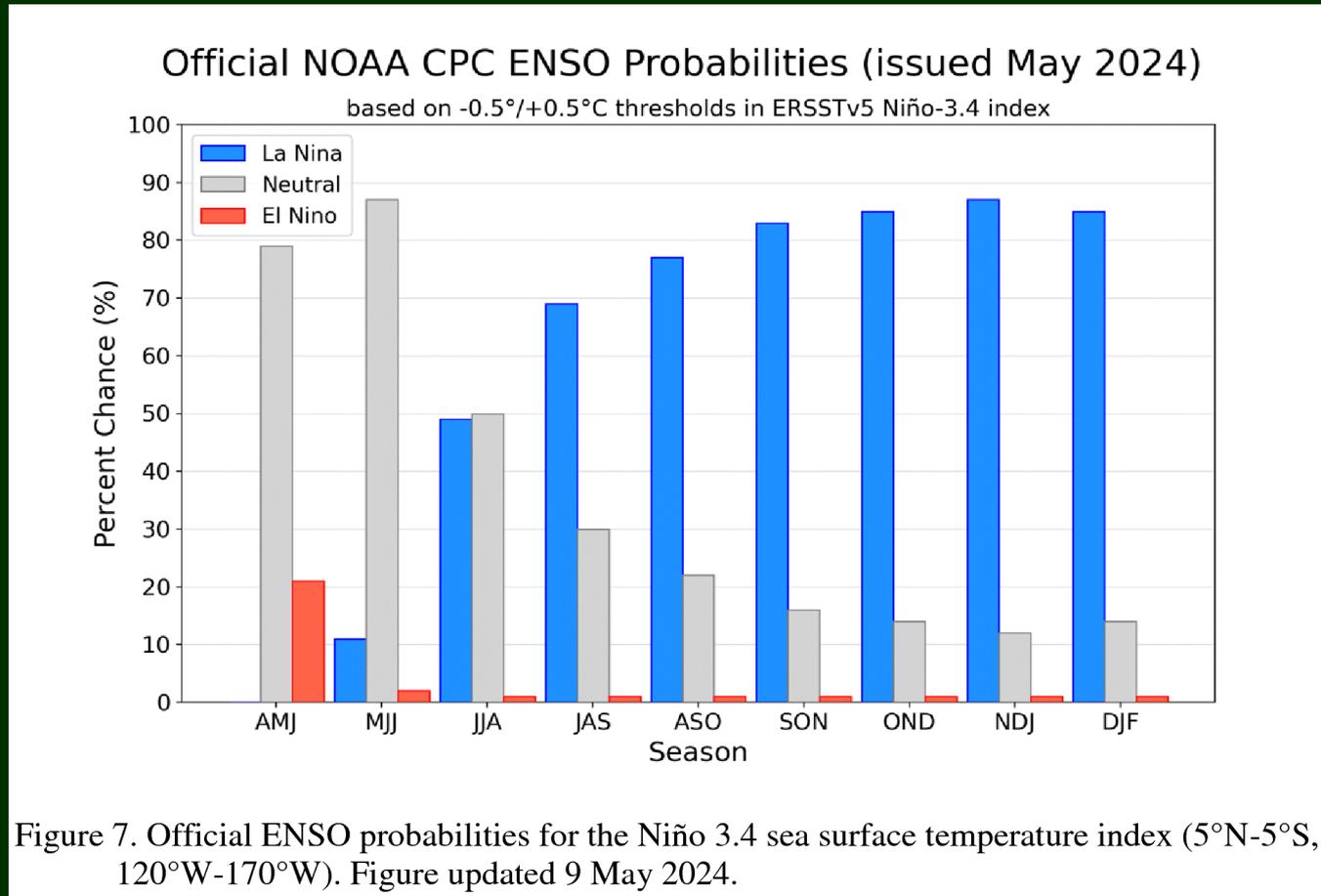
- Drought is projected to persist but improve in most of Kansas that is still experiencing drought.

Fire in the Midwest/Plains



- June is forecasted to be a month of normal fire potential for states in the Corn Belt and Plains.

La Niña Watch



- A rapid transition from El Niño to La Niña by mid-summer → see “Summary” for expected impacts

Summary

- Soil moisture & drought showed improvements in regions that received higher-than-normal rainfall in May.
 - Drought remains an issue in Kansas, but drought coverage region-wide is down to <7%.
- May saw above normal temps for most, a trend that expected to continue for many into June.
- Most will see more rain over the next week, with some forecasted to receive >1".
- Transition from El Niño to La Niña this summer
 - This can sometimes be associated with drought, but not a consistent signal.
 - Recent research has pointed to warmer temperatures being more likely during the summer of these rapid transitions; the current CPC outlook for JJA supports this.

Next MAC-T Monthly Call

Next Call
July 3 – 9 am CDT