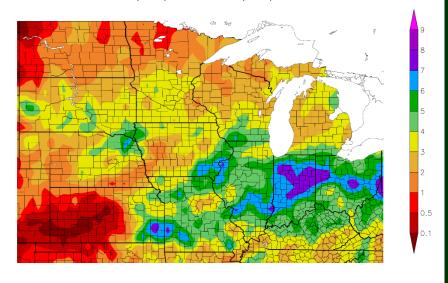
MAC-T Monthly Call

Midwest Agriculture & Climate Team



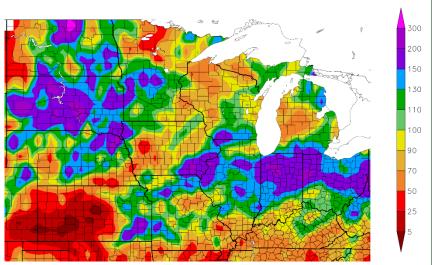
Precipitation (in) 3/30/2024 - 4/28/2024



Generated 4/29/2024 at HPRCC using provisional data.

NOAA Regional Climate Centers

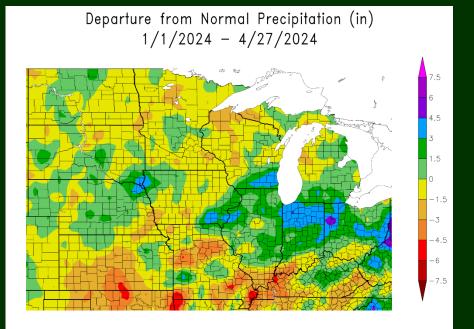
Percent of Normal Precipitation (%) 3/30/2024 - 4/28/2024



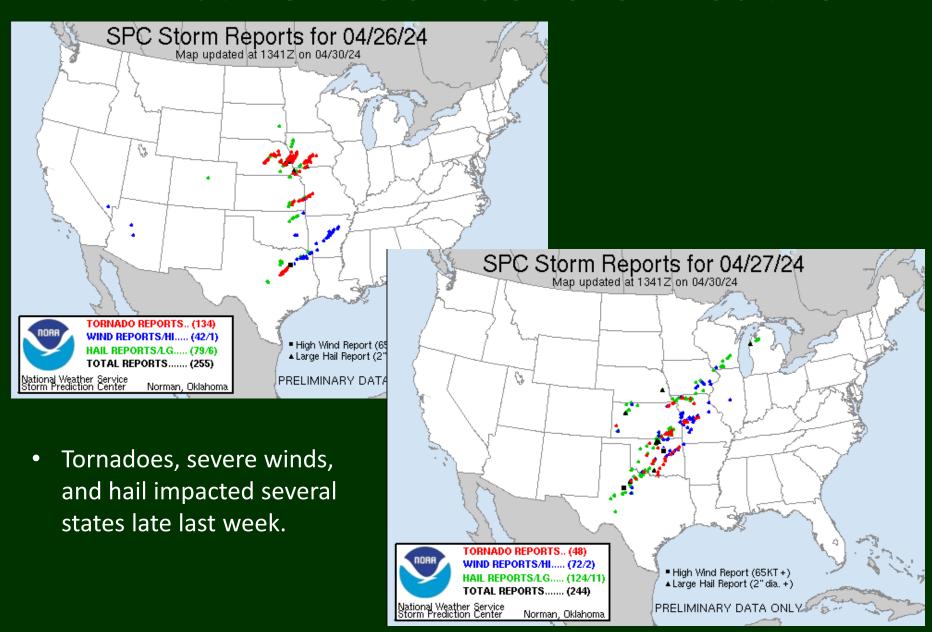
Monthly Precip

- Indiana and Ohio were the wettest states in the region.
 - Widespread totals that were >103% of average.
- Driest in KS and western ND (<1 widespread;
 <50% of average).
- Precip departure since January 1 is highest in the east and lowest to the south and west.

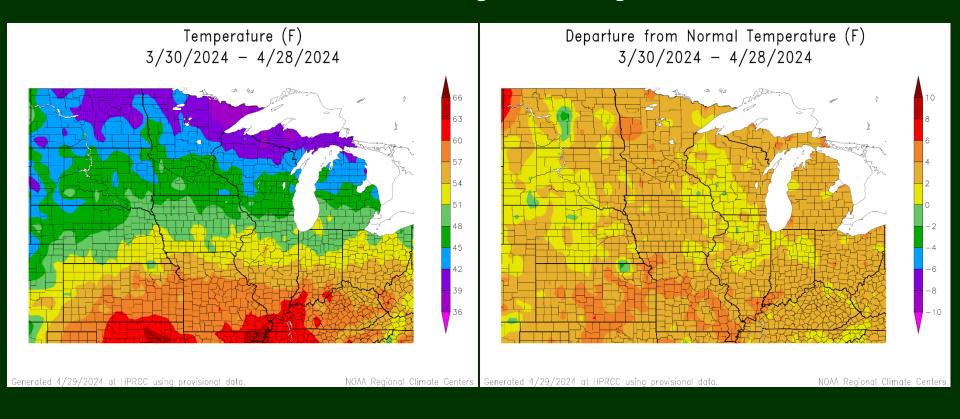
https://hprcc.unl.edu/maps.php?map=ACISClimateMaps



An Active Week-Severe Weather

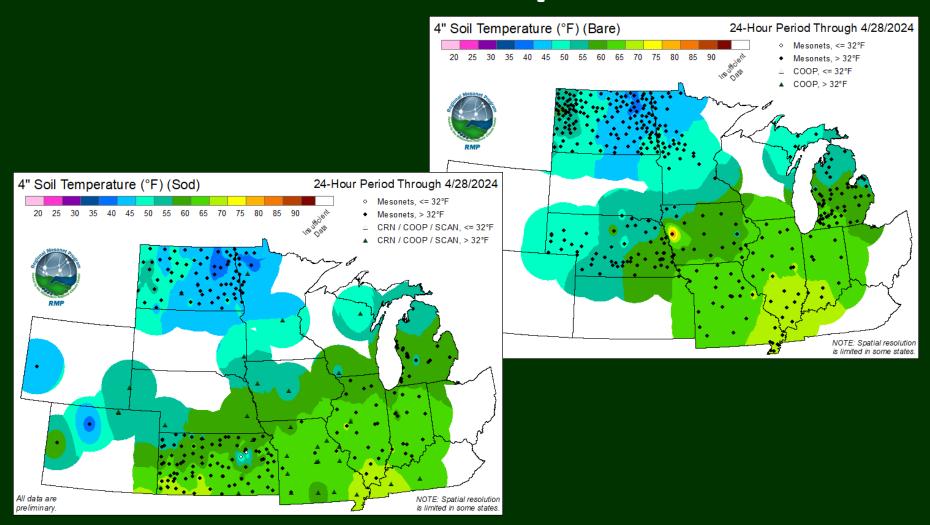


Monthly Temps



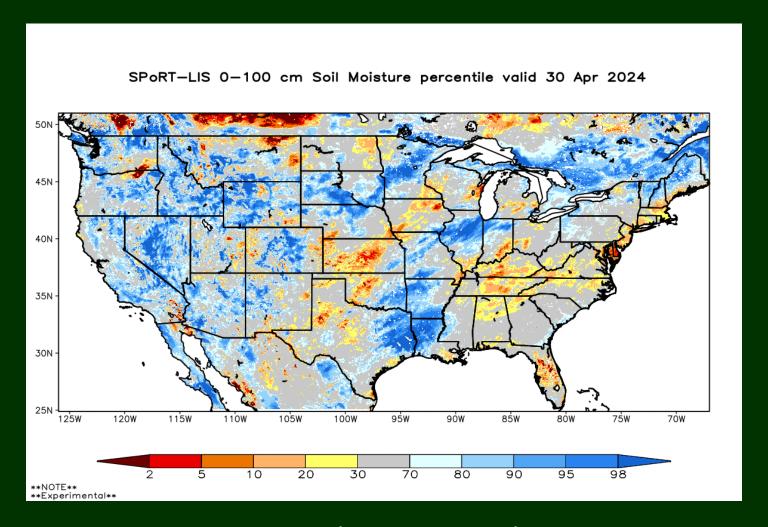
- Near or above-average temps region-wide
 - 2-4°F above normal for most
 - Coldest along Lake Superior (high 30s to low 40s)
 - Warmest in the far south (high 50s to low 60s)

Soil Temps



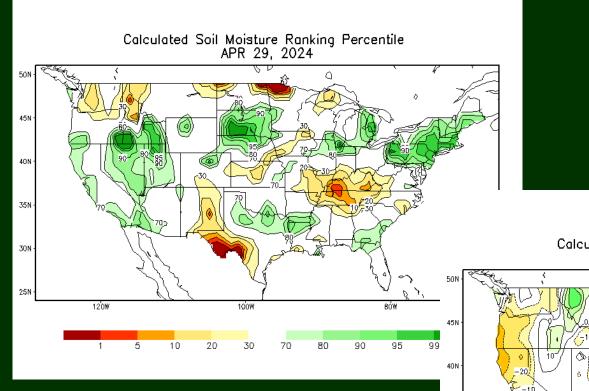
Range from 65-70°F in the S to 35-40°F in the N

Soil Moisture

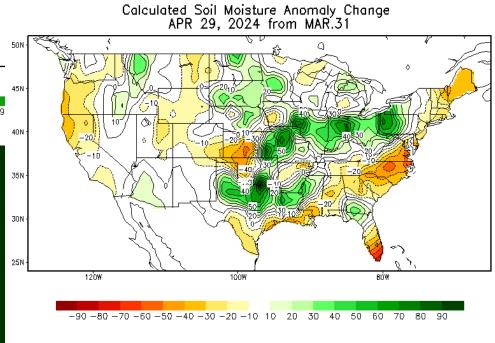


- Higher moisture levels across IL/IN, MN, and SD/Northern NE.
- Dryness remains in parts of IA & KS.

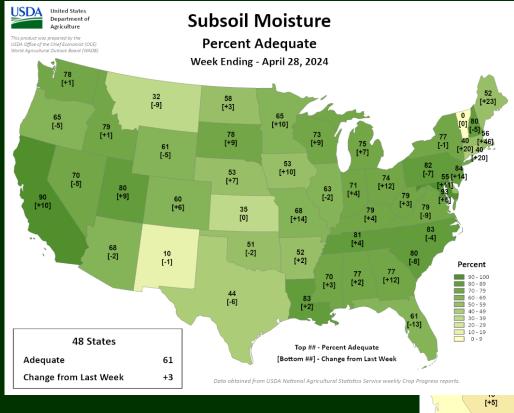
Soil Moisture



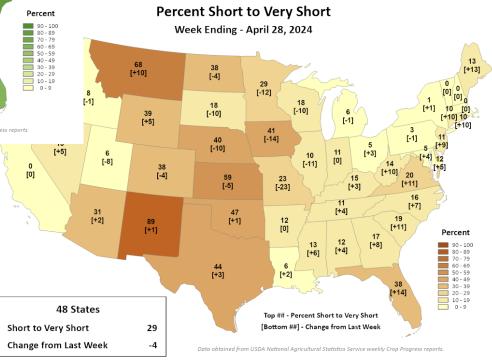
 Improvement in conditions for several states with the rainfall over the past few weeks.



NASS Subsoil Moisture

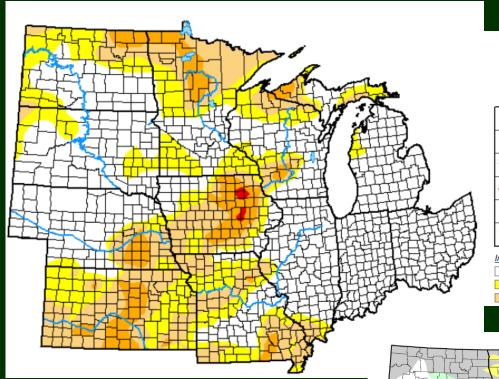


 Improvement in conditions for several states with the rainfall over the past few weeks.



Subsoil Moisture

US Drought Monitor



April 23, 2024

(Released Thursday, Apr. 25, 2024) Valid 8 a.m. EDT

Drought Conditions (Percent Area)

None D0-D4 D1-D4 D2-D4 D3-D

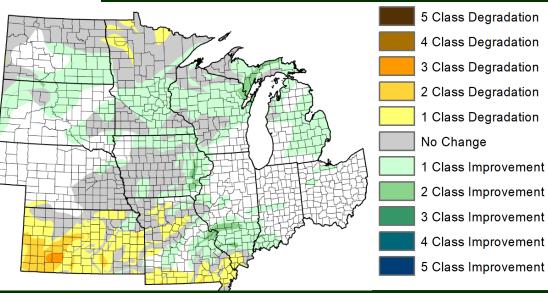
| | 140116 | D0-D4 | 01-04 | 02-04 | D3-D4 | 5 |
|---|--------|-------|-------|-------|-------|------|
| Current | 54.29 | 45.71 | 25.76 | 7.07 | 0.20 | 0.00 |
| Last Week 04-16-2024 | 46.38 | 53.62 | 26.40 | 6.14 | 0.55 | 0.00 |
| 3 Month s Ago 01-23-2024 | 40.85 | 59.15 | 29.07 | 10.79 | 1.85 | 0.00 |
| 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 04-25-2023 | 54.94 | 45.06 | 27.16 | 16.34 | 11.17 | 5.65 |

D0 Abnormally Dry

D2 Severe Drought D3 Extreme Drought D1 Moderate Drought D4 Exceptional Drought Drought remains an issue, with pockets of D3-level drought remaining in IA.

Regional improvements of 1-2 classes where April precip was higherthan-average.

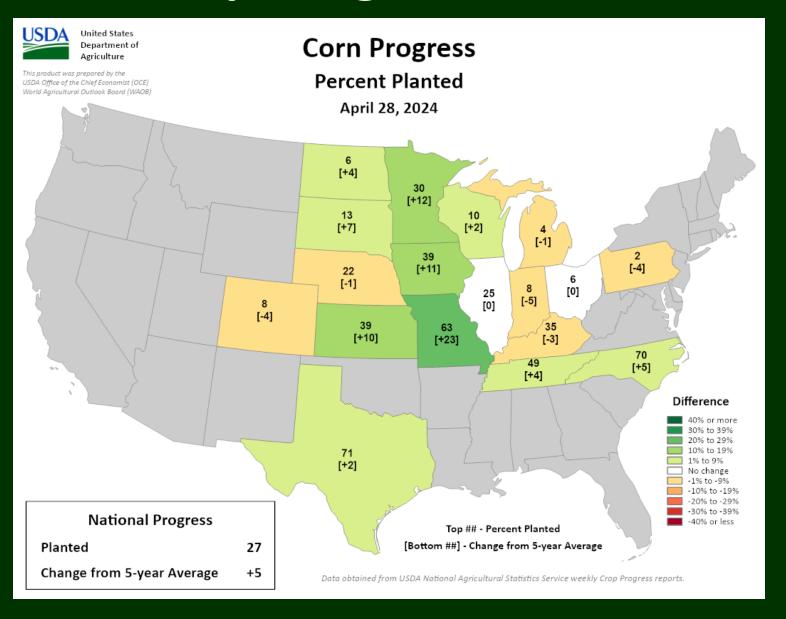
4/23/24 compared to 3/26/24



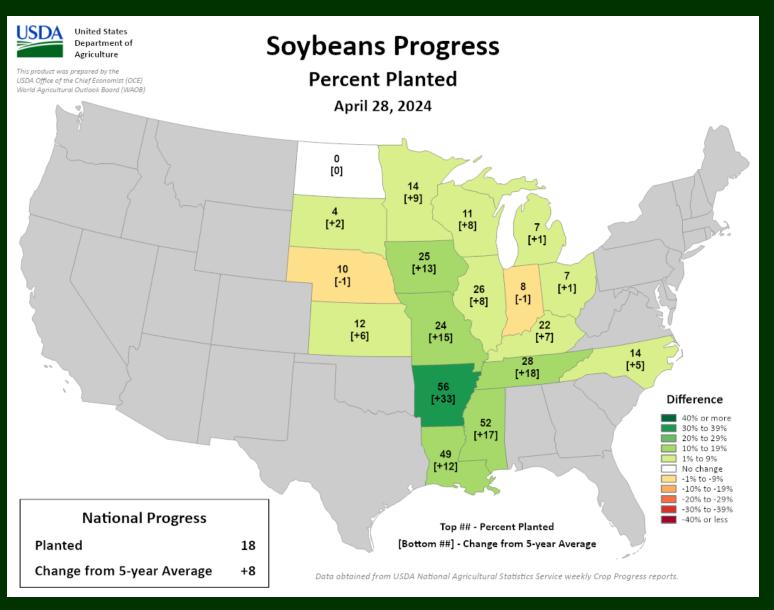
Assorted Ag Issues

- Early planting progress has slowed with recent precipitation.
- Some excess precip/wet soils in places
- Some isolated ag damage from severe weather

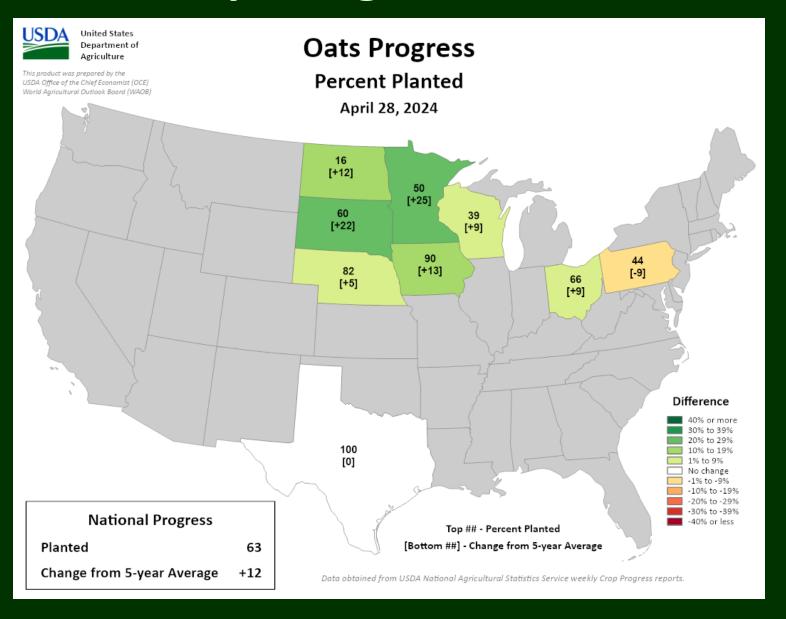
Crop Progress - Corn



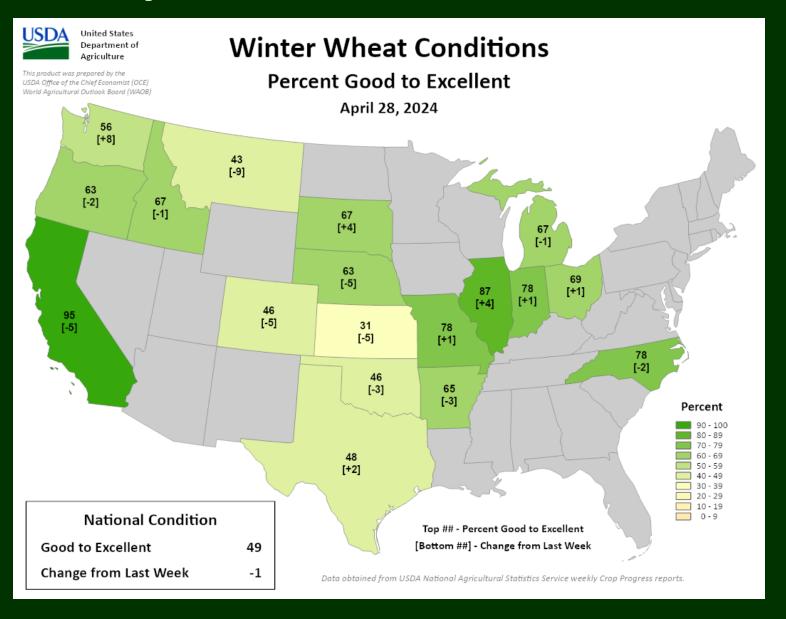
Crop Progress - Soybean



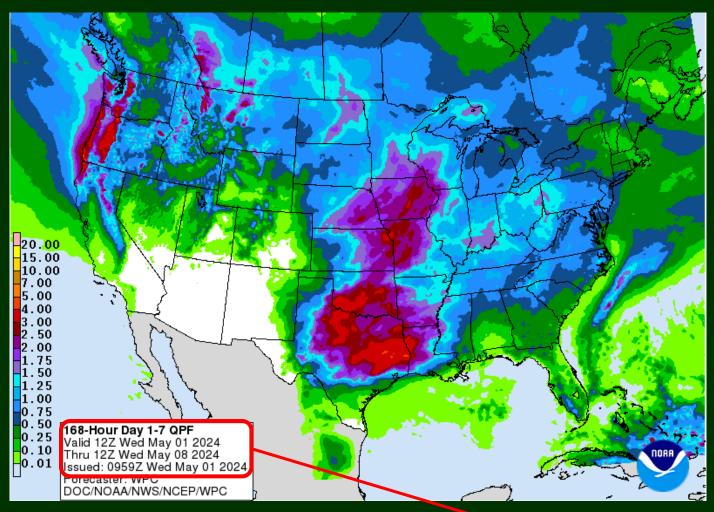
Crop Progress - Oats



Crop Condition – W. Wheat



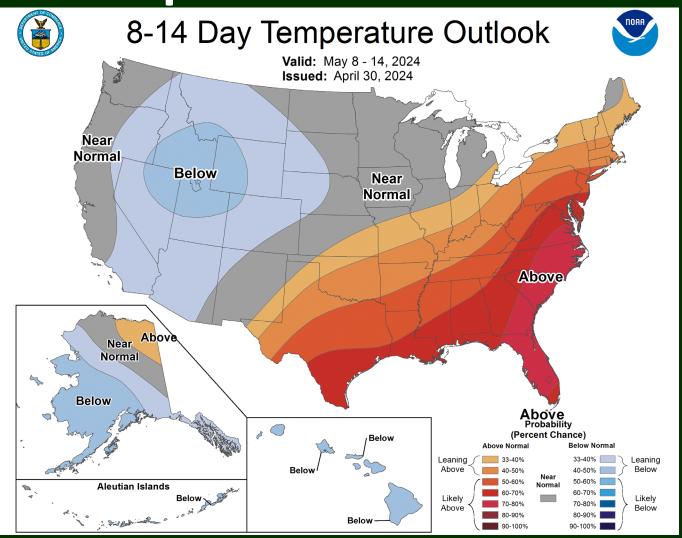
1-7 Day Precip Forecast



- The active pattern is forecasted to continue.
- Rain chances exist region-wide.
- 7-day totals of 2-3"
 or more are
 possible along the I 35 corridor.

Forecast for 4/30/24 thru 5/7/24 (12Z = 7am CDT)

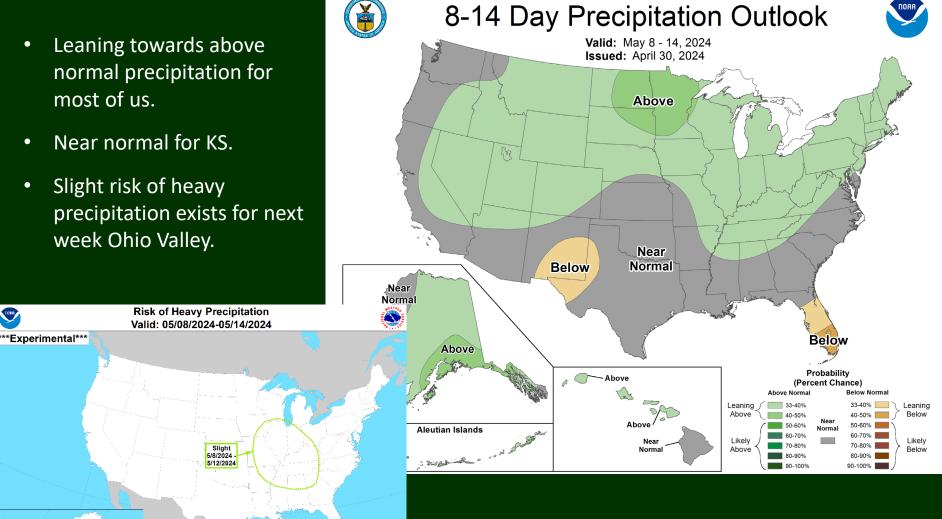
Temperature Outlook



- Temperatures probabilities leaning above average far southeast.
- Near normal for much of the region.

Precipitation Outlook

- most of us.

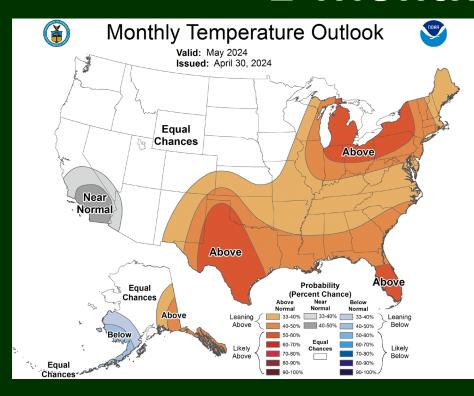


Follow us: 13 X

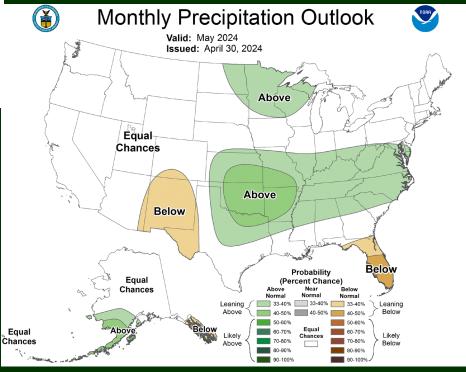
www.cpc.ncep.noaa.gov

NO HAZARDS POSTED

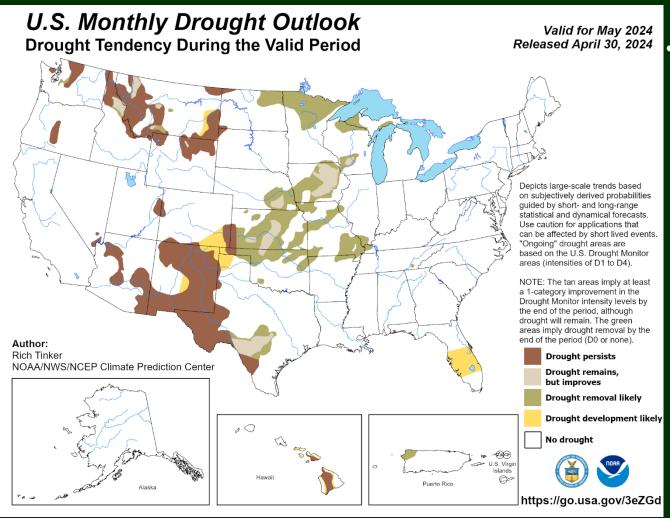
1-Month Outlook



- Likely above normal temps in the Great Lakes region and leaning above normal east of the Dakotas.
- Leaning towards above normal precip in the south and central Plains. Equal chances elsewhere.

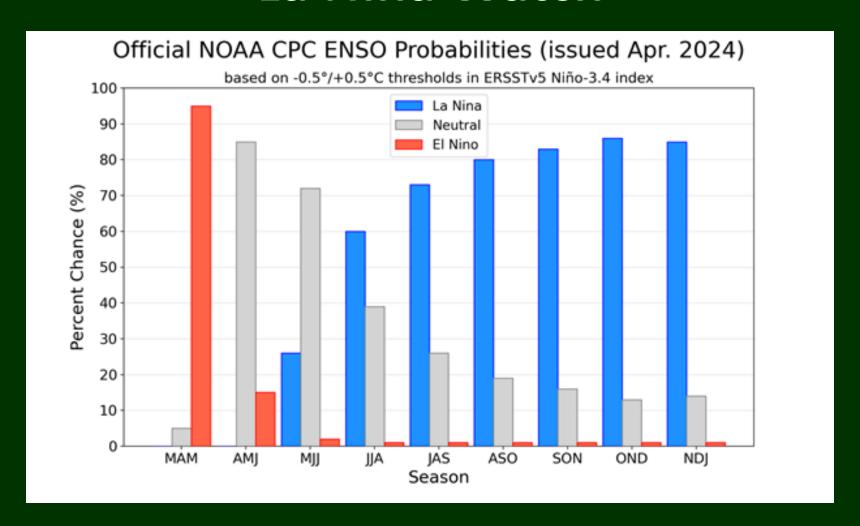


Drought in the Midwest/Plains



 Drought improvement across the region seems likely – more so from near-term precipitation.

La Niña Watch



Summary

- Soil moisture & drought showed improvements in regions that received higher-than-normal rainfall in April.
 - Drought conditions worsened in parts of KS that saw <50% of long-term average rainfall in April.
- April saw above normal temps for most, a trend that expected to continue into early May.
- A rainy week is on tap for many across the Corn Belt; some could see multiple inches of rainfall.
- 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 MJJ supports this.

Next MAC-T Monthly Call

Next Call

June 5 – 9 am CDT