#### **MAC-T Monthly Call**

Midwest Agriculture and Climate Team





## El Niño Advisory

#### Official NOAA CPC ENSO Probabilities (issued June 2023)

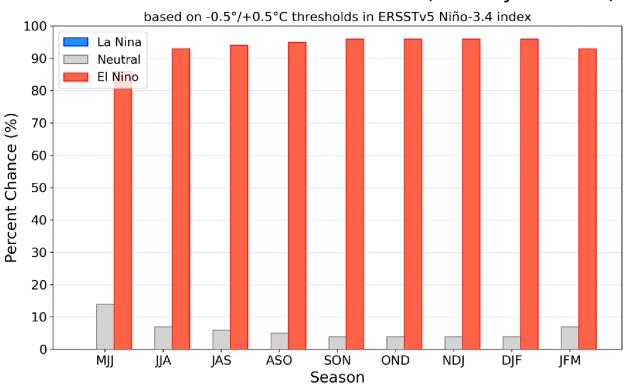
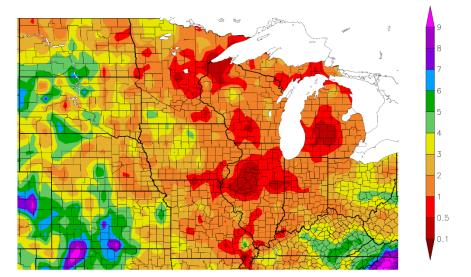
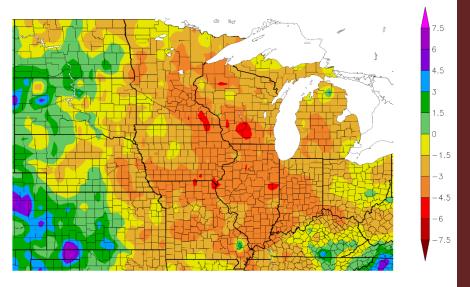


Figure 7. Official ENSO probabilities for the Niño 3.4 sea surface temperature index (5°N-5°S, 120°W-170°W). Figure updated 8 June 2023.

Precipitation (in) 5/28/2023 - 6/26/2023



Departure from Normal Precipitation (in) 5/28/2023 - 6/26/2023

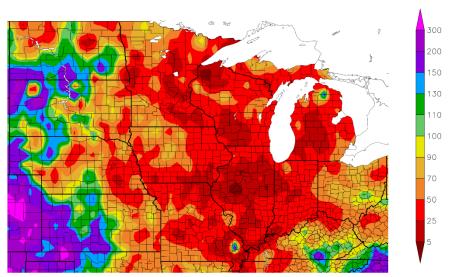


Generated 6/27/2023 at HPRCC using provisional data.

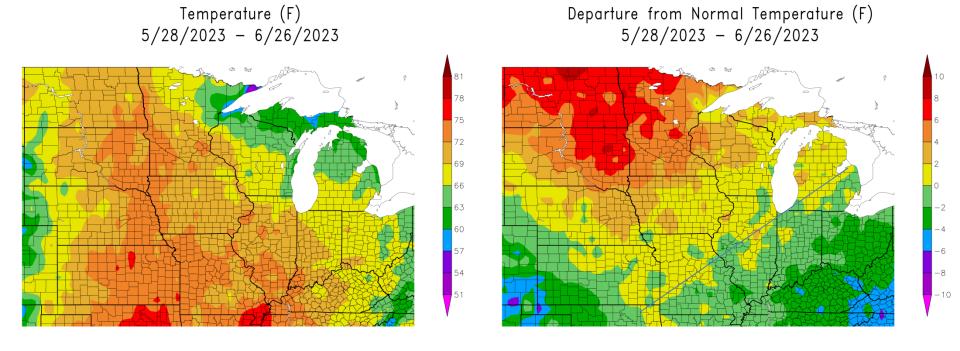
NOAA Regional Climate Centers Generated 6/27/2023 at HPRCC using provisional data.

NOAA Regional Climate Centers

#### Percent of Normal Precipitation (%) 5/28/2023 - 6/26/2023



- Drier nearly everywhere in the region except for western Plains.
- Some dryness very severe. Widespread <50%. <25% across portions of most states in the region.



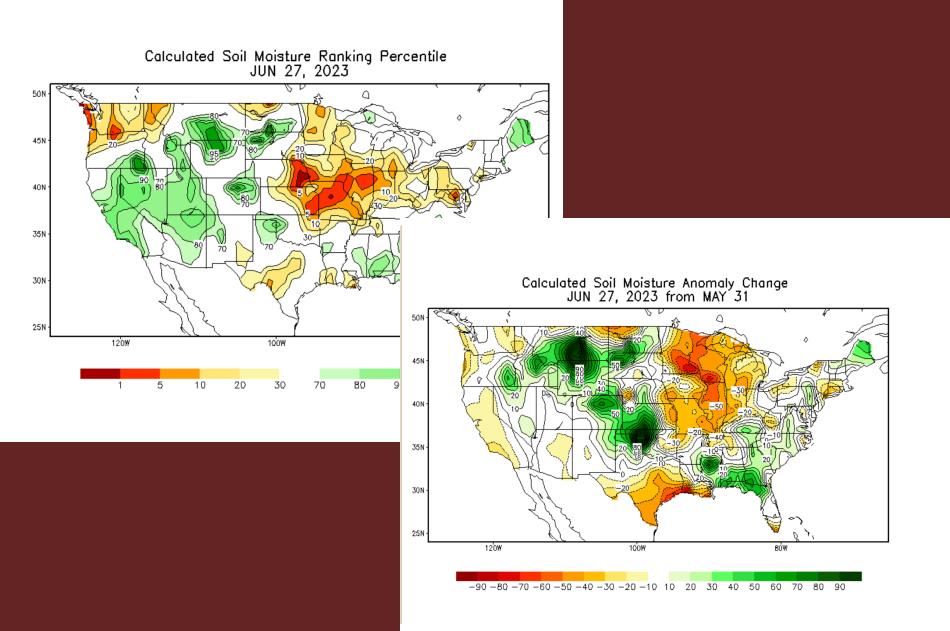
Generated 6/27/2023 at HPRCC using provisional data.

NOAA Regional Climate Centers Generated 6/27/2023 at HPRCC using provisional data.

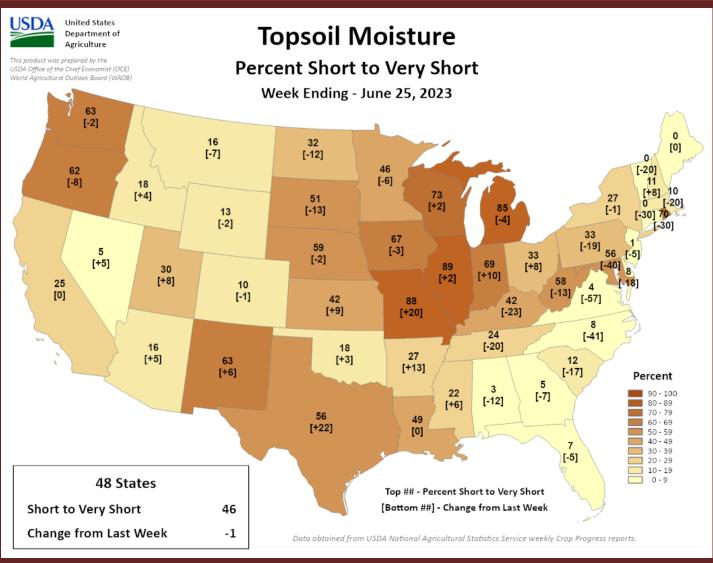
NOAA Regional Climate Centers

- Northern Plains much warmer than average (6-10F)
- Rest of region also warmer but less so mostly (2-4 F).
- Eastern Corn Belt near normal to cooler (IN/OH).

## Soil Moisture



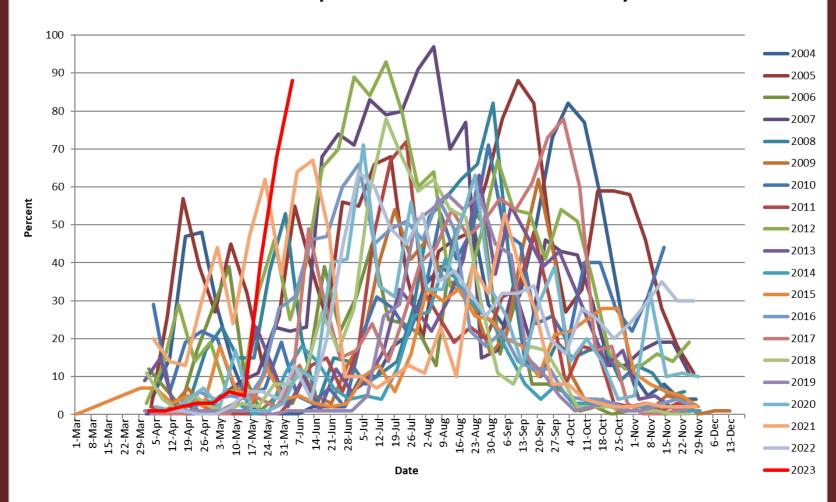
## Soil Moisture (NASS)



 Rapid increase in S-VS soil moisture across eastern Corn Belt

# Soil Moisture (NASS)

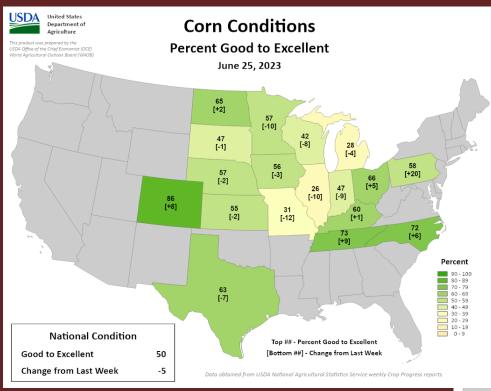
#### **MI Topsoil Moisture: Percent Short-Very Short**



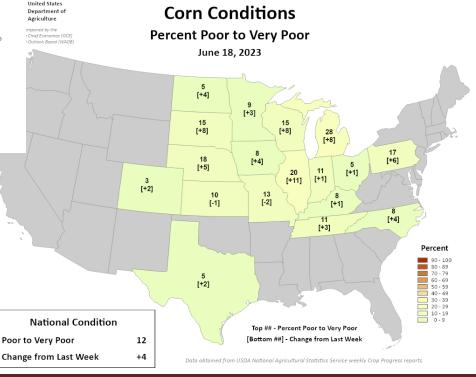
Based on NASS crop progress data.



## Corn Conditions (NASS)

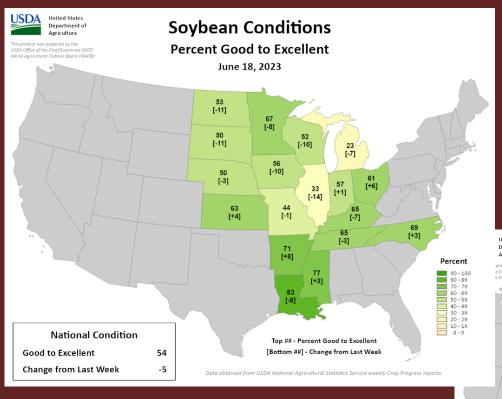


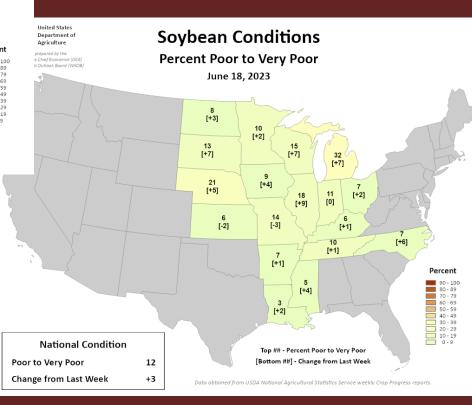
Slow, but increasing poor to very poor across the Corn Belt





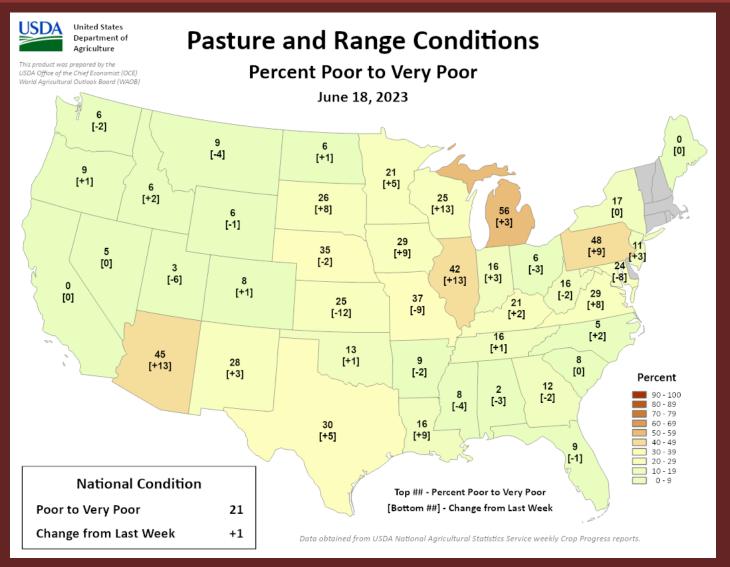
# Soybean Conditions (NASS)







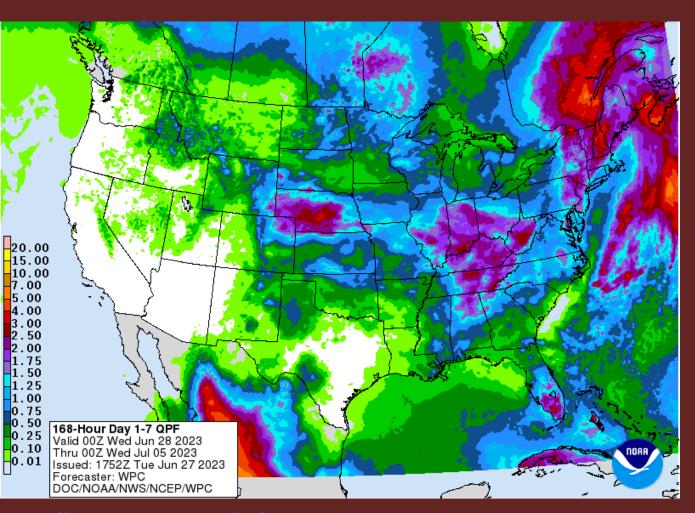
# Pasture/Range Conditions (NASS)



#### Assorted AG Issues

- Rapid soil drying central-eastern Corn Belt.
- Stress on grasses/small grains.
  - Stress commonly noted on grasses
  - Small grain condition reports worsening slightly
- Row crop (corn/soy)
  - Conditions also worsening for corn (soy condition NA)
  - Yield losses minimal this early in season
- Hay cutting
  - Easier in drier conditions
  - Limited cutting in places due to dryness

## 1-7 Day Precip



#### Next 7 days

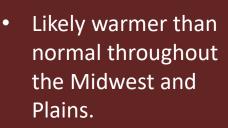
- Some cooler conditions.
- More active pattern more south.
- Lesser chances MN/WI.

http://www.wpc.ncep.noaa.gov/qpf/day1-7.shtml

### Temperature Outlook

Follow us:

www.cpc.ncep.noaa.gov



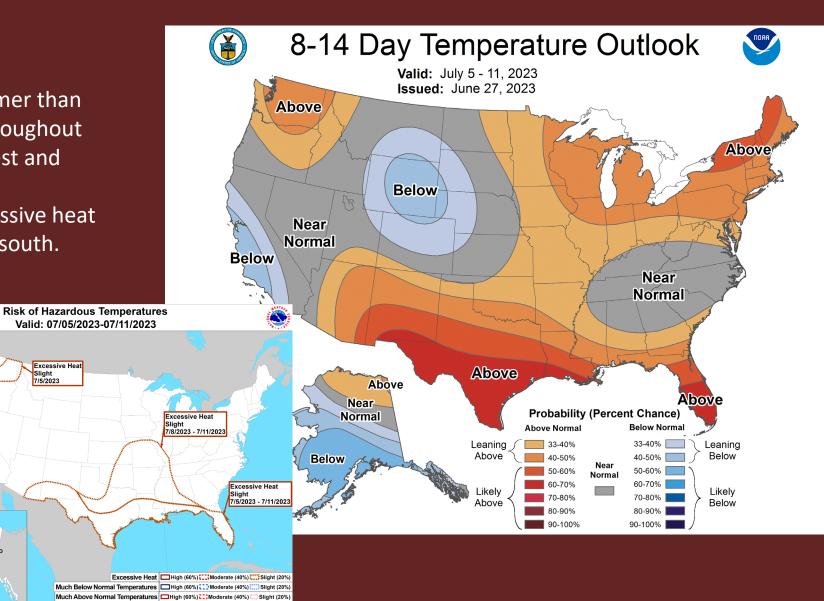
Some excessive heat possible – south.

Excessive Heat

Slight 7/5/2023

NORA

\*\*\*Experimental\*\*\*

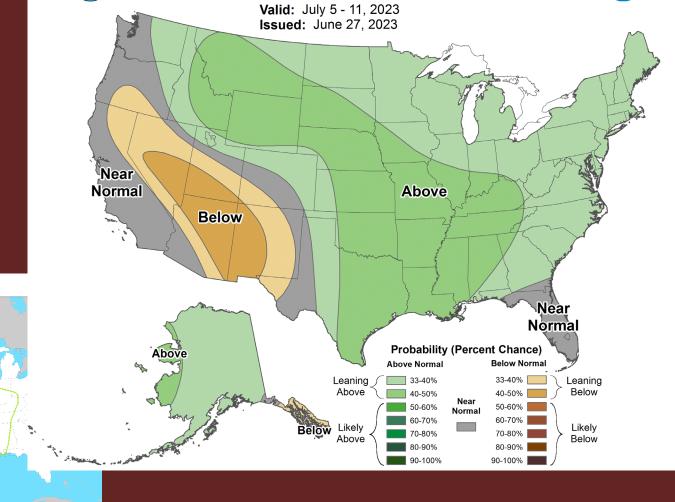


NO HAZARDS POSTED

## Precipitation Outlook

- Slight chance wetter in the Plains.
- Near normal narrow band
- Slightly below chances Great Lakes.

\*\*\*Experimental\*\*\*

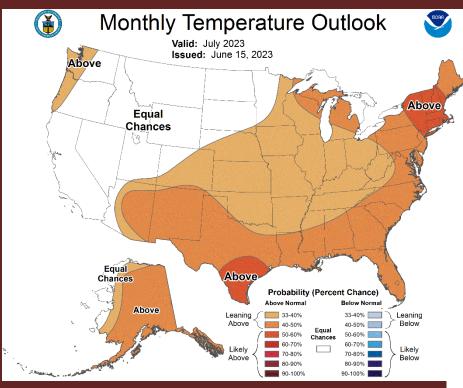


8-14 Day Precipitation Outlook

Slight 7/5/2023 -

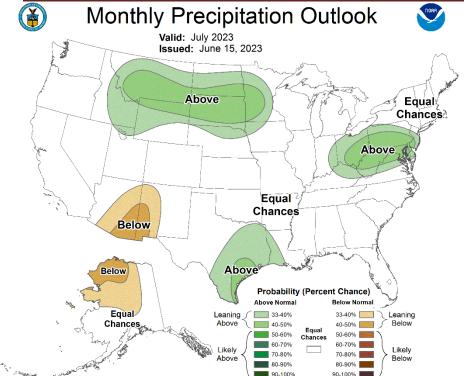
Risk of Heavy Precipitation Valid: 07/05/2023-07/11/2023

## 1-Month Outlook

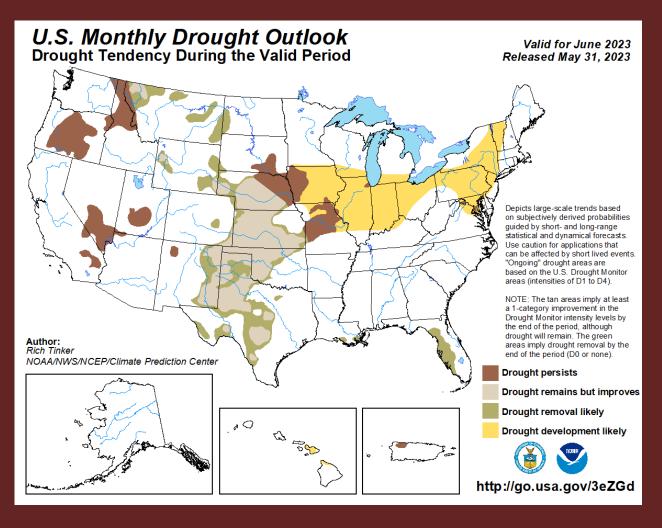


#### June Monthly Outlook

- Warmer more likely across most of the area focused north.
- Pretty good chance drier around Great Lakes.



## Drought in the Midwest/Plains



- June 2023 drought outlook – worsening expected lowa to Ohio
- Some Plains improvement.

#### <u>Summary</u>

- Officially in an El Nino Advisory low correlation with summer wx
- Rapid Onset Drought across the central-eastern Corn Belt
- Dry soils/precip. deficits of concern as we move into corn tasseling/pollination
- Overall crop conditions reflecting dryness
- Smoke probably will persist in region at least periodically.
- Seven-day QPF and outlooks are showing positive signals for wetter conditions across the region

### **Next MAC-T** Monthly Call

Next Call **July 12, 2023, 9-10am CT** 

Do we need a check-in sooner?