MAC-T Monthly Call

Midwest Agriculture and Climate Team

May 3, 2023

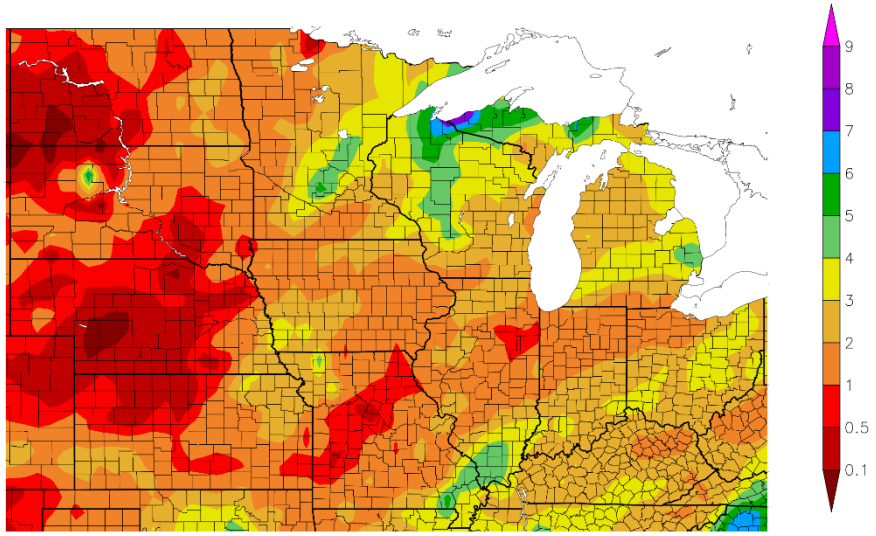
For more information:

Dennis.todey@usda.gov

Justin.glisan@iowaagriculture.gov

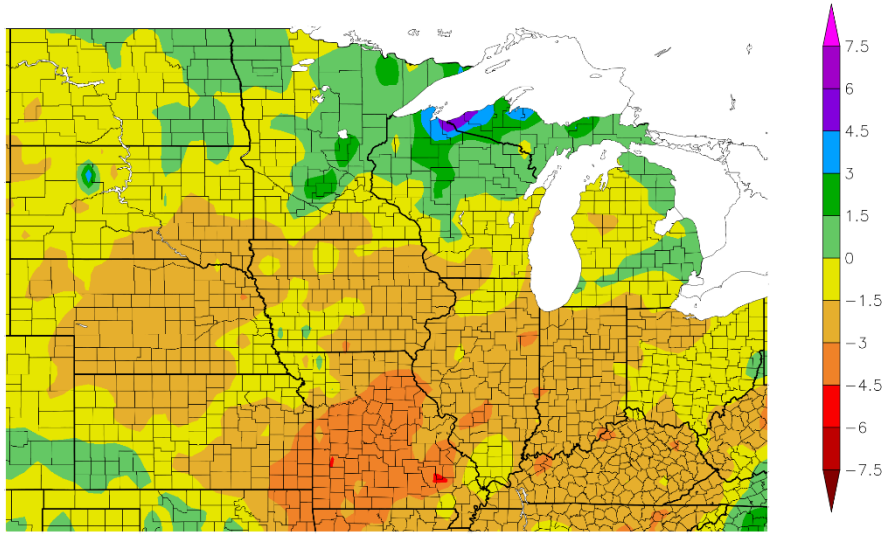
USDA Midwest Climate Hub
U.S. DEPARTMENT OF AGRICULTURE

Precipitation (in)
4/2/2023 – 5/1/2023



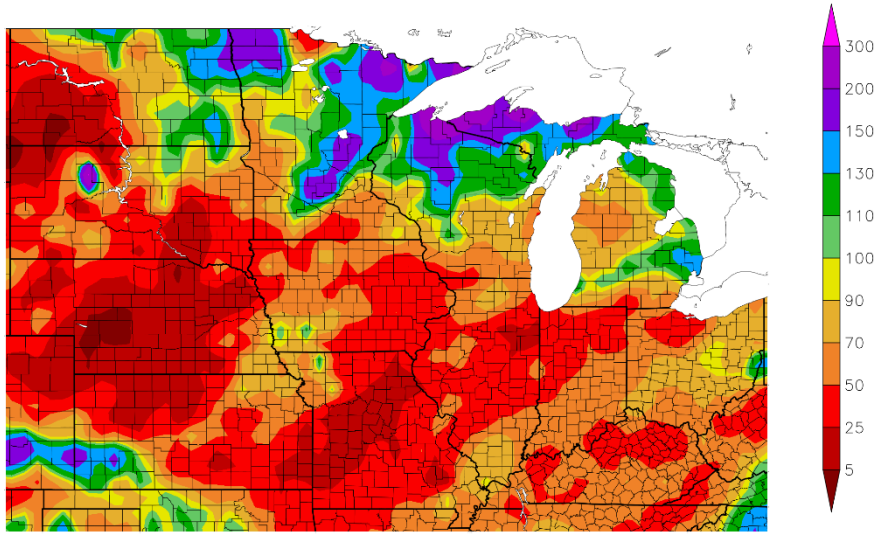
Generated 5/2/2023 at HPRCC using provisional data. NOAA Regional Climate Centers

Departure from Normal Precipitation (in)
4/2/2023 – 5/1/2023



Generated 5/2/2023 at HPRCC using provisional data. NOAA Regional Climate Centers

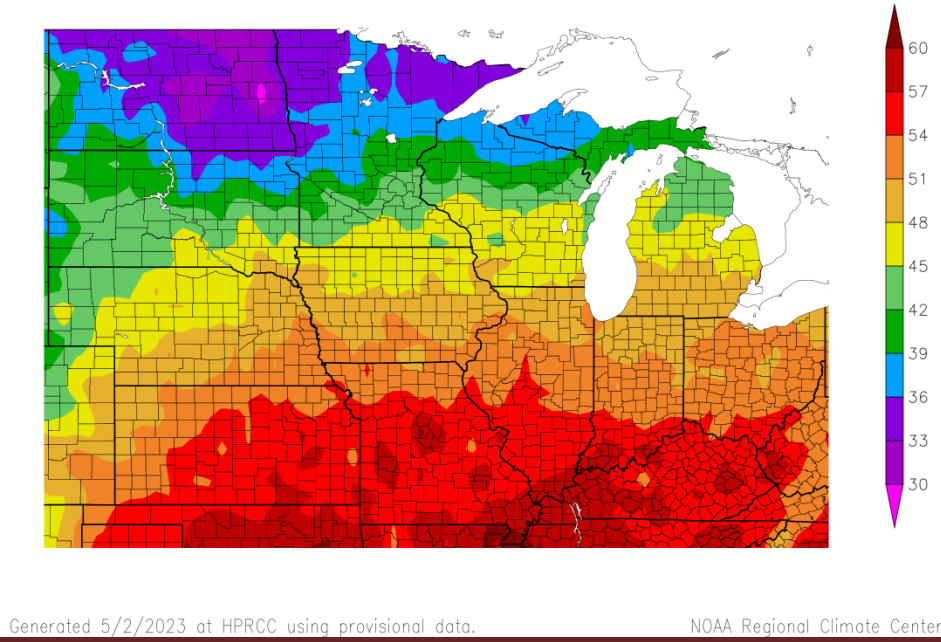
Percent of Normal Precipitation (%)
4/2/2023 – 5/1/2023

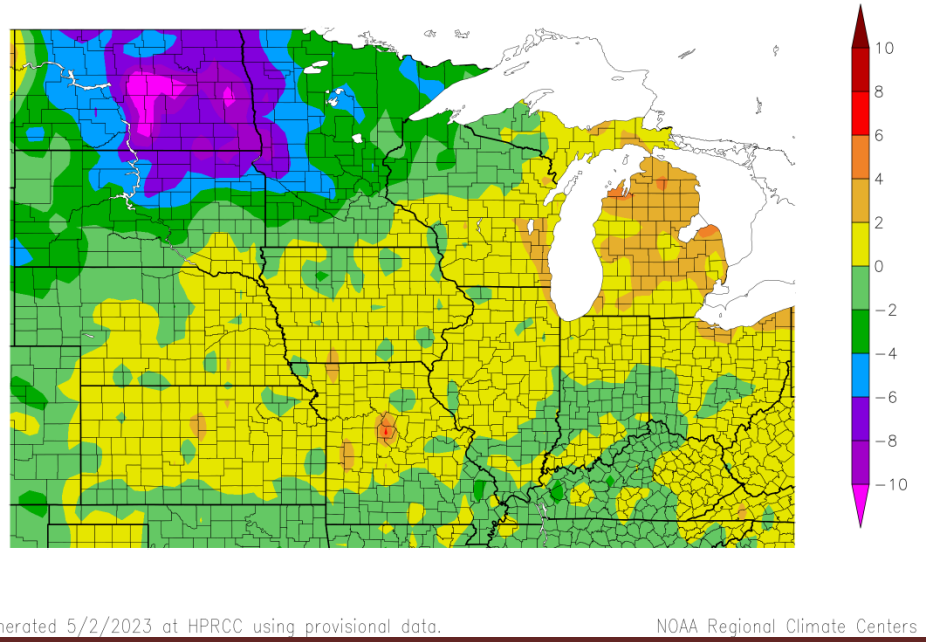


Generated 5/2/2023 at HPRCC using provisional data. NOAA Regional Climate Centers

- Mostly drier than average across the region, except in northern MN/WI and central MN.

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



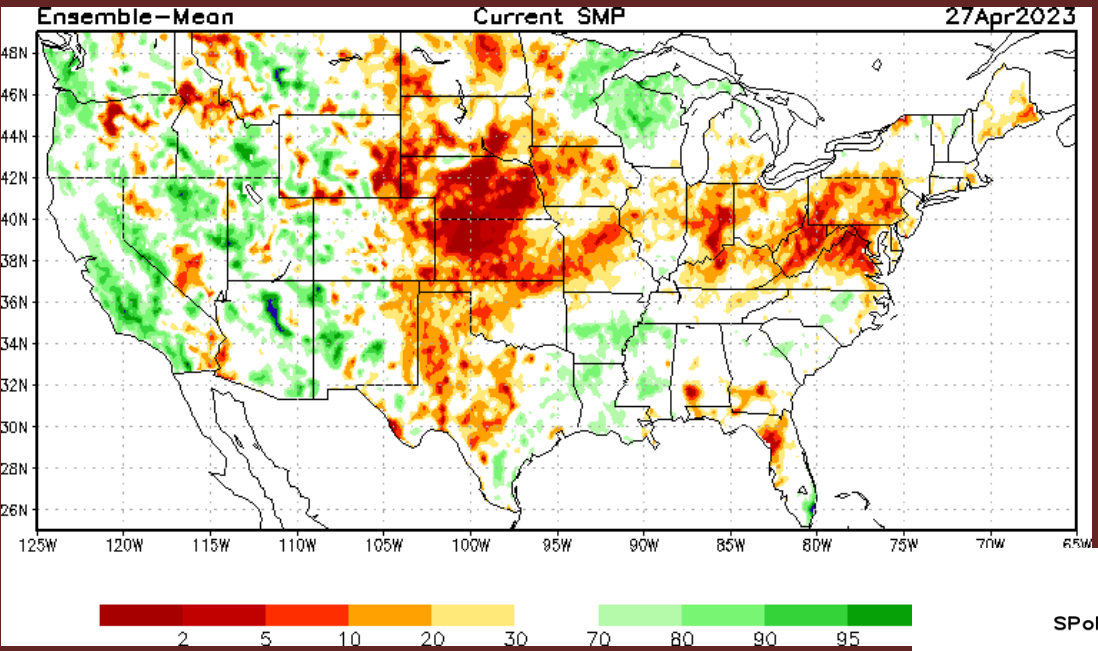


- Very cool still north following late melt of heavy snow pack
- Near average or slightly cooler than average in the rest of the region, except a bit above average in most of Michigan.

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

Soil Moisture

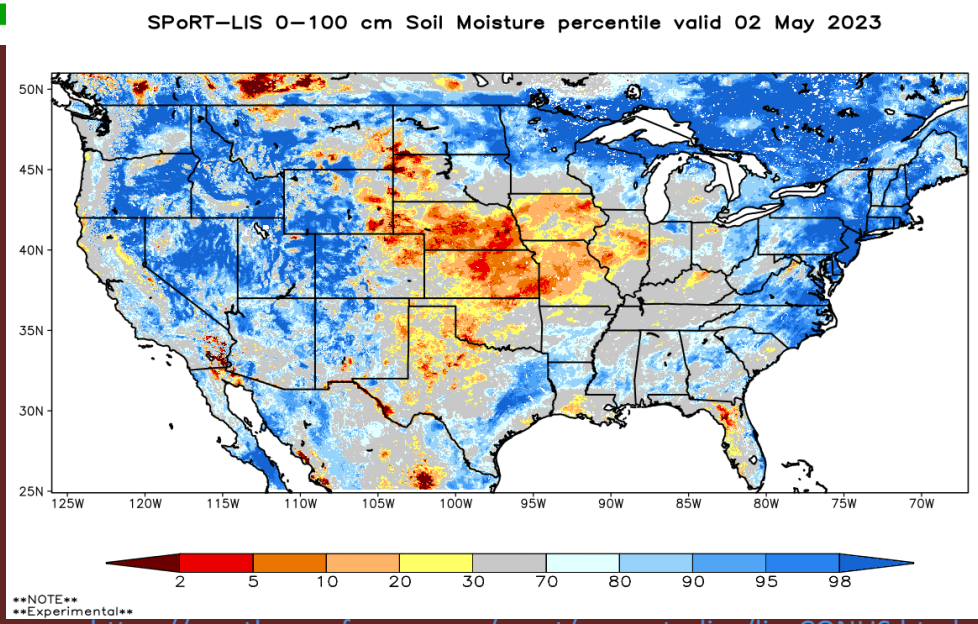
https://www.cpc.ncep.noaa.gov/products/Drought/Monitoring/smp_new.shtml#



- Still some dry soils Plains into parts of MO-IA-MN
- Closer to average elsewhere and possibly wet north.
- NASA-SPoRT has had some corrections but possibly a bit too wet now.
- Unclear how much moisture entered soils in northern areas where snowpack recently melted.

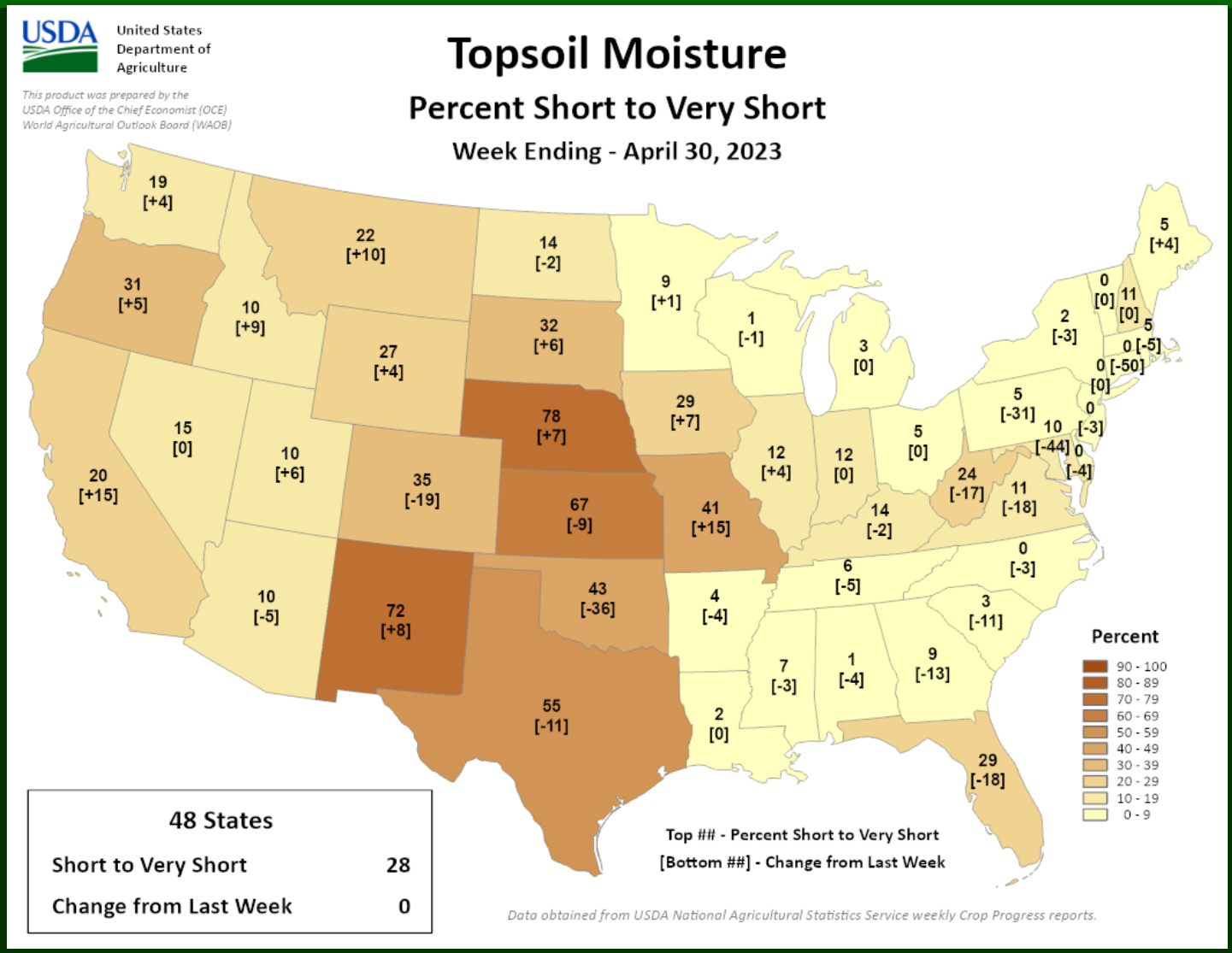
Both percentile maps

- Upper – whole profile
- Lower – top 100 cm (~40”)



https://weather.msfc.nasa.gov/sport/case_studies/lis_CONUS.html

Soil Moisture (NASS)



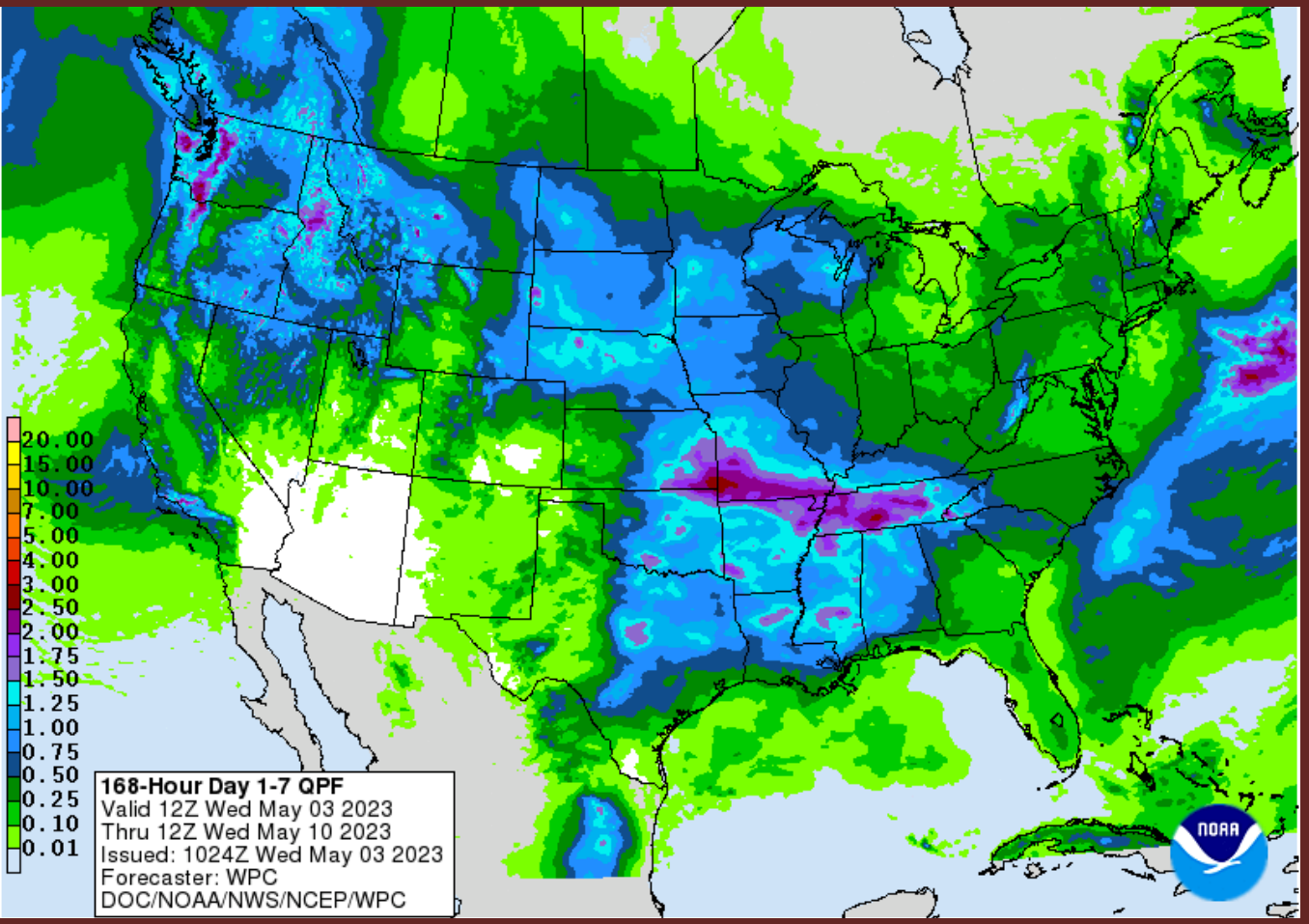
Assorted AG Issues

- Dry soils persist west.
- Soils becoming wet (possibly too wet) in north
- Recently thawed northern areas – questions on soil moisture recovery
- Very quick snow melt.

- Field work and planting rolling

- Some recent flooding in various areas.

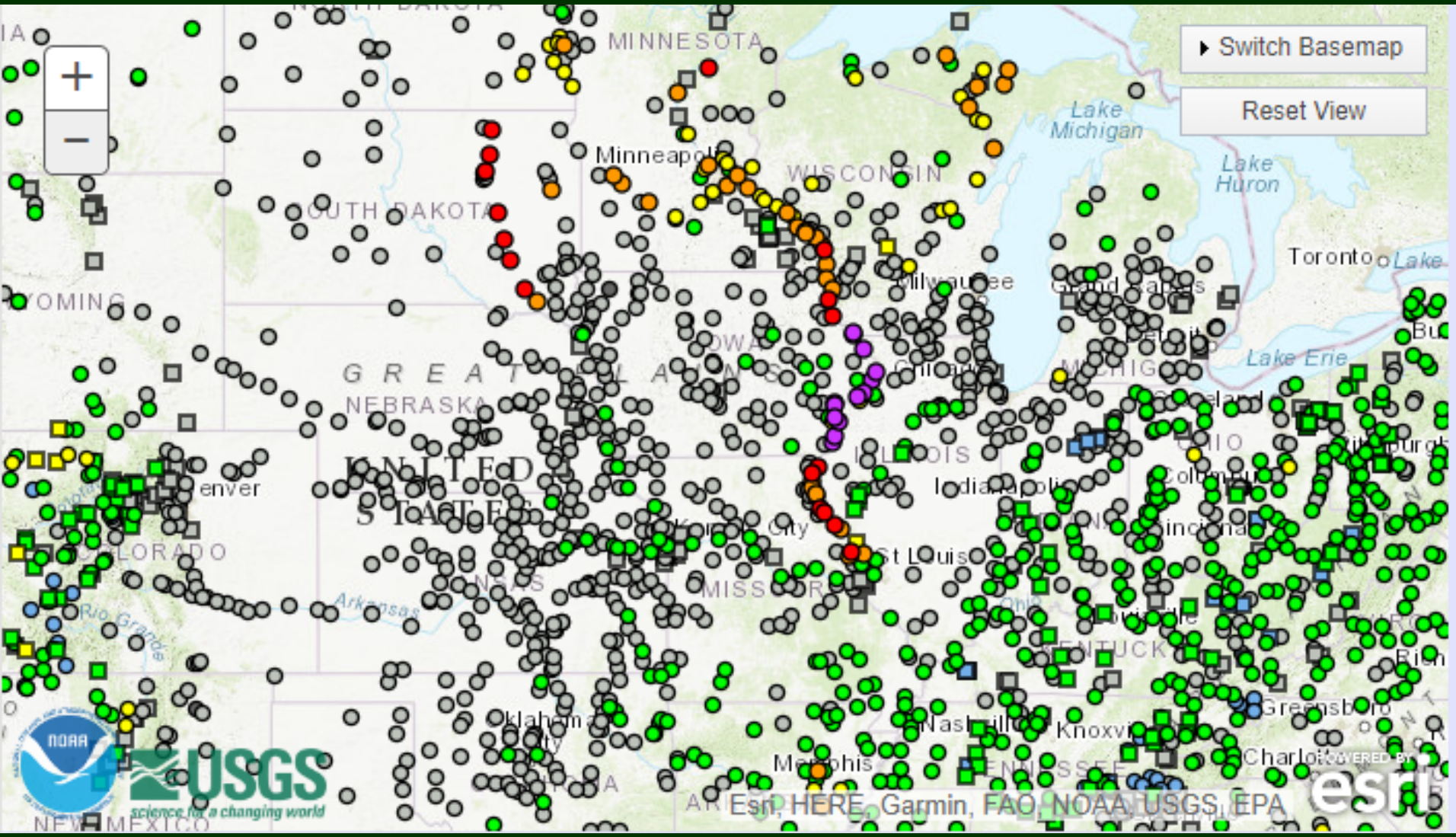
1-7 Day Precip



Next 7 days

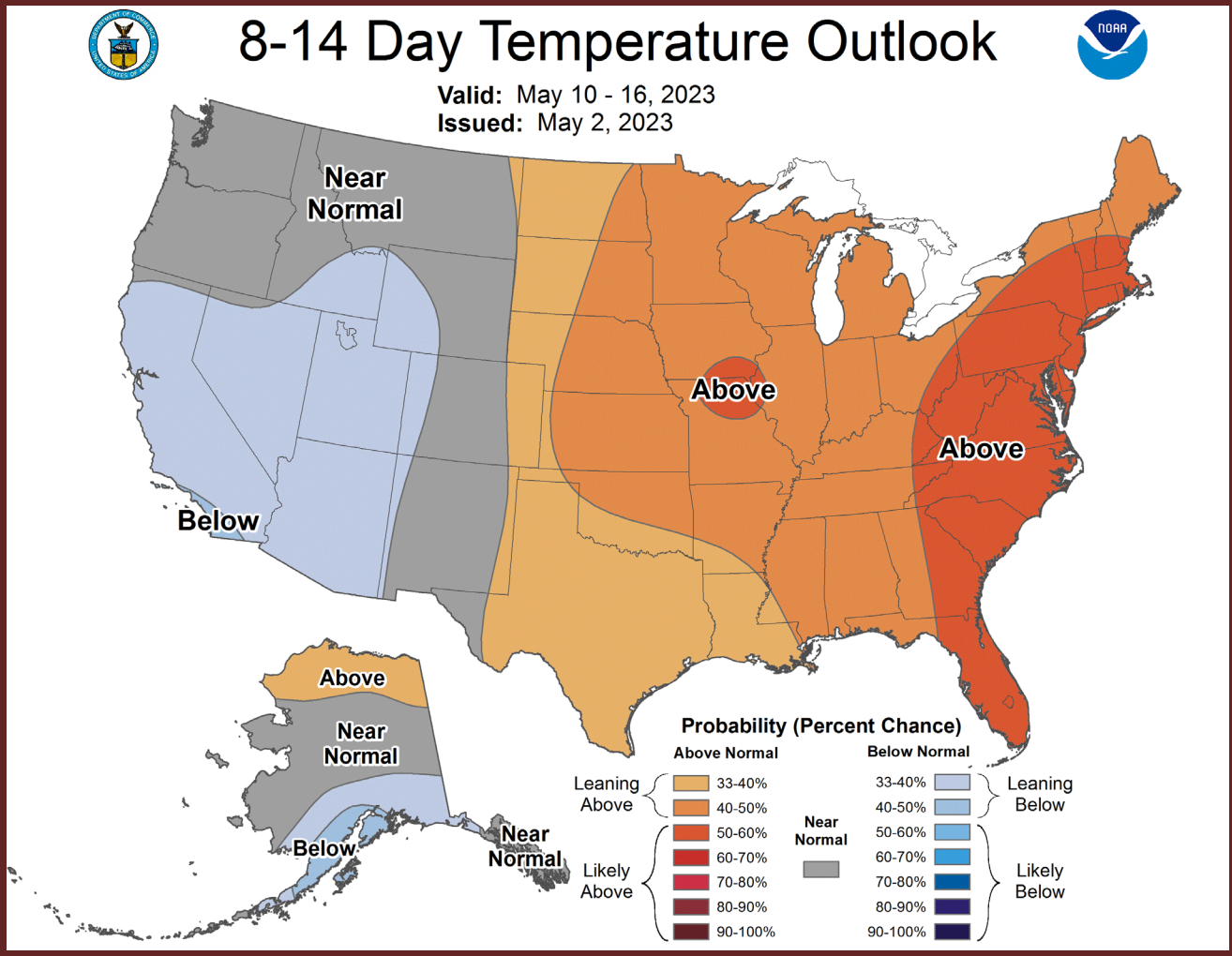
- Brief cool period over weekend then recovery.
- High winds.
- Showers widespread – Potentially heavy in KS/MO/IL.

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


Switch Basemap
Reset View
MINNESOTA
Minneapolis
WISCONSIN
Lake Michigan
Lake Huron
Lake Erie
Toronto
NEBRASKA
Denver
Kansas City
St Louis
Oklahoma City
Nashville
Knoxville
Memphis
Charlotte
Greensboro
Esri, HERE, Garmin, FAO, NOAA, USGS, EPA
USGS
science for a changing world
NOAA
esri

Temperature Outlook

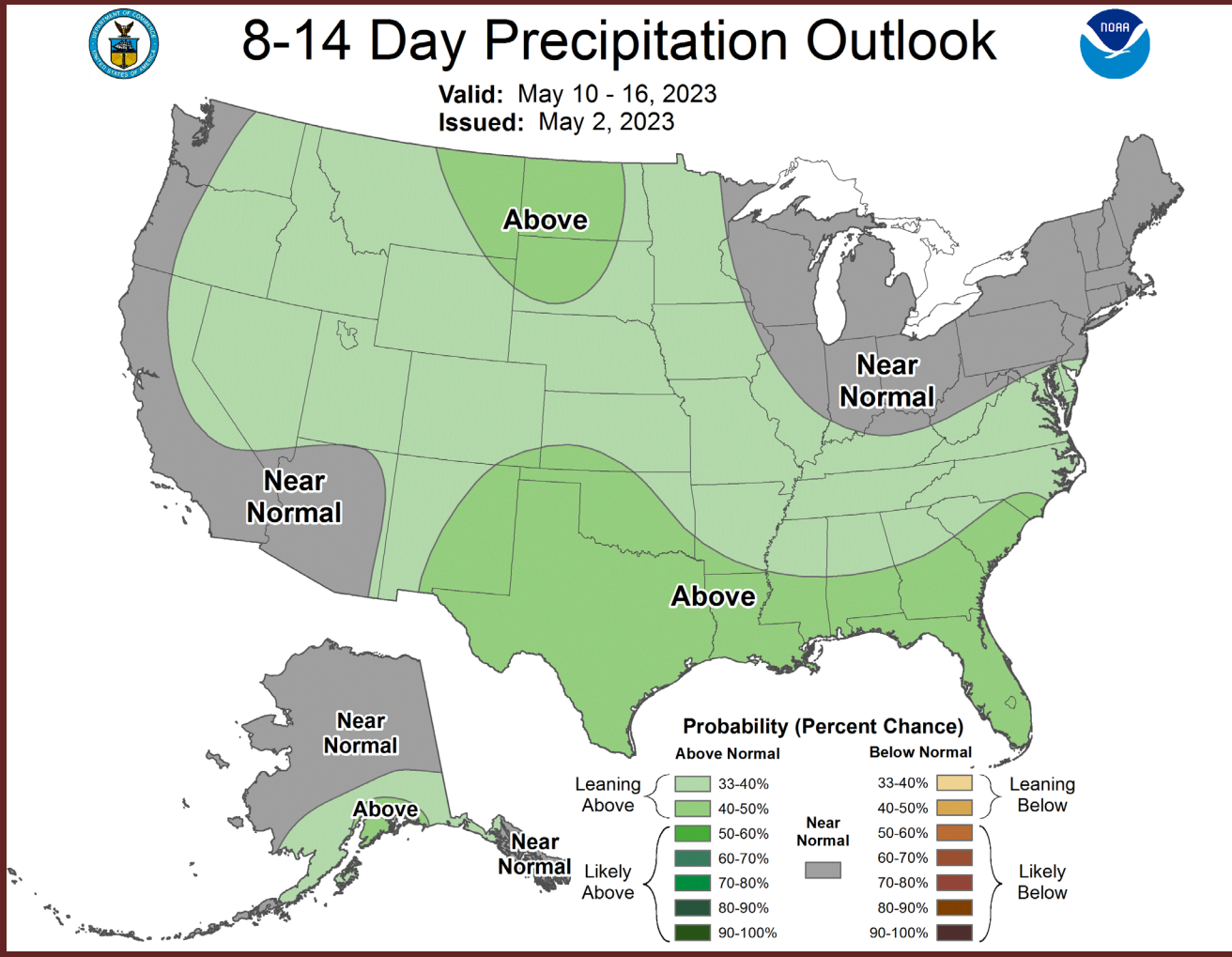
- Likely warmer than normal throughout the Midwest and Plains



http://www.cpc.ncep.noaa.gov/

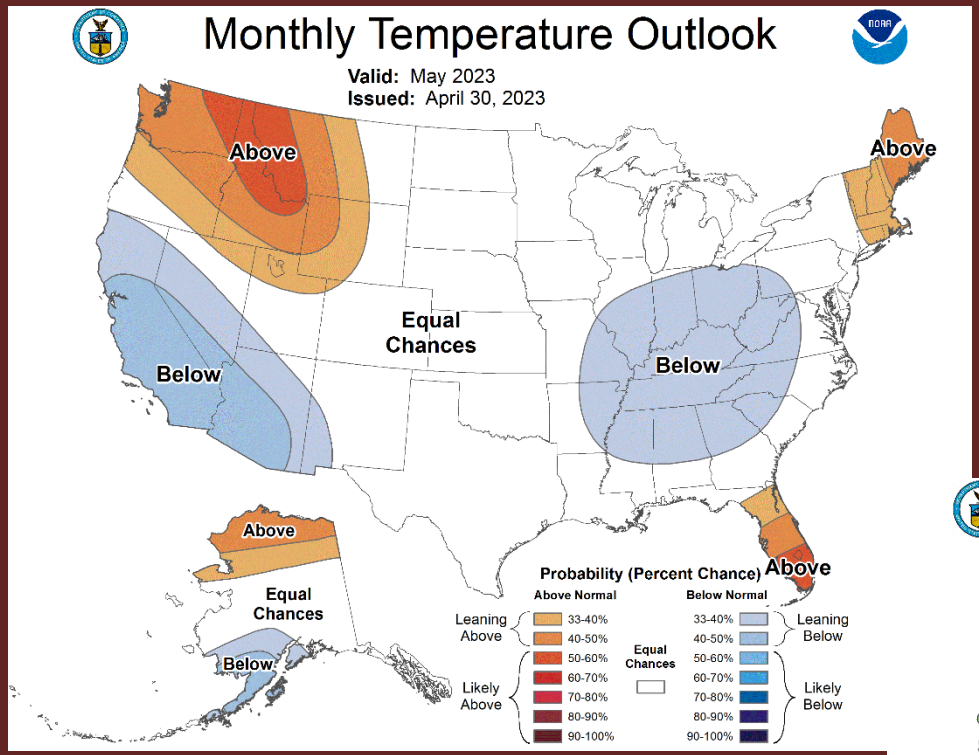
Precipitation Outlook

- Slight chance wetter in the Plains.
- Near normal elsewhere.



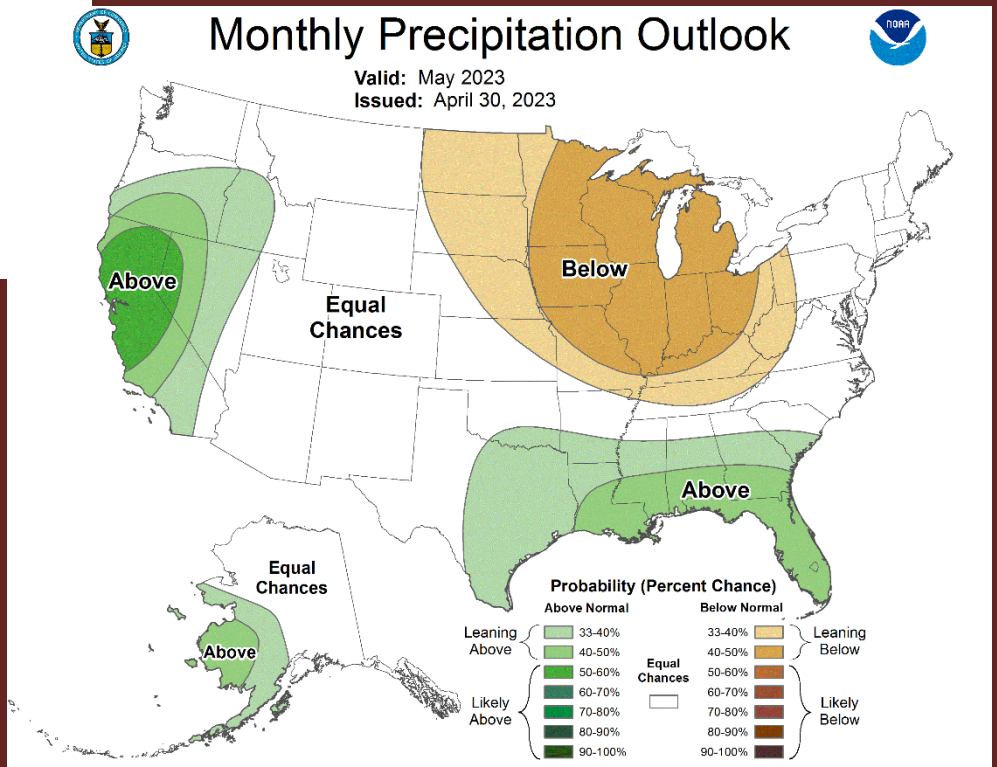
http://www.cpc.ncep.noaa.gov/

1-Month Outlook



April Monthly Outlook

- Better chance cooler around Ohio Valley
- Dryer than normal throughout Midwest



http://www.cpc.ncep.noaa.gov/

March-May Outlook

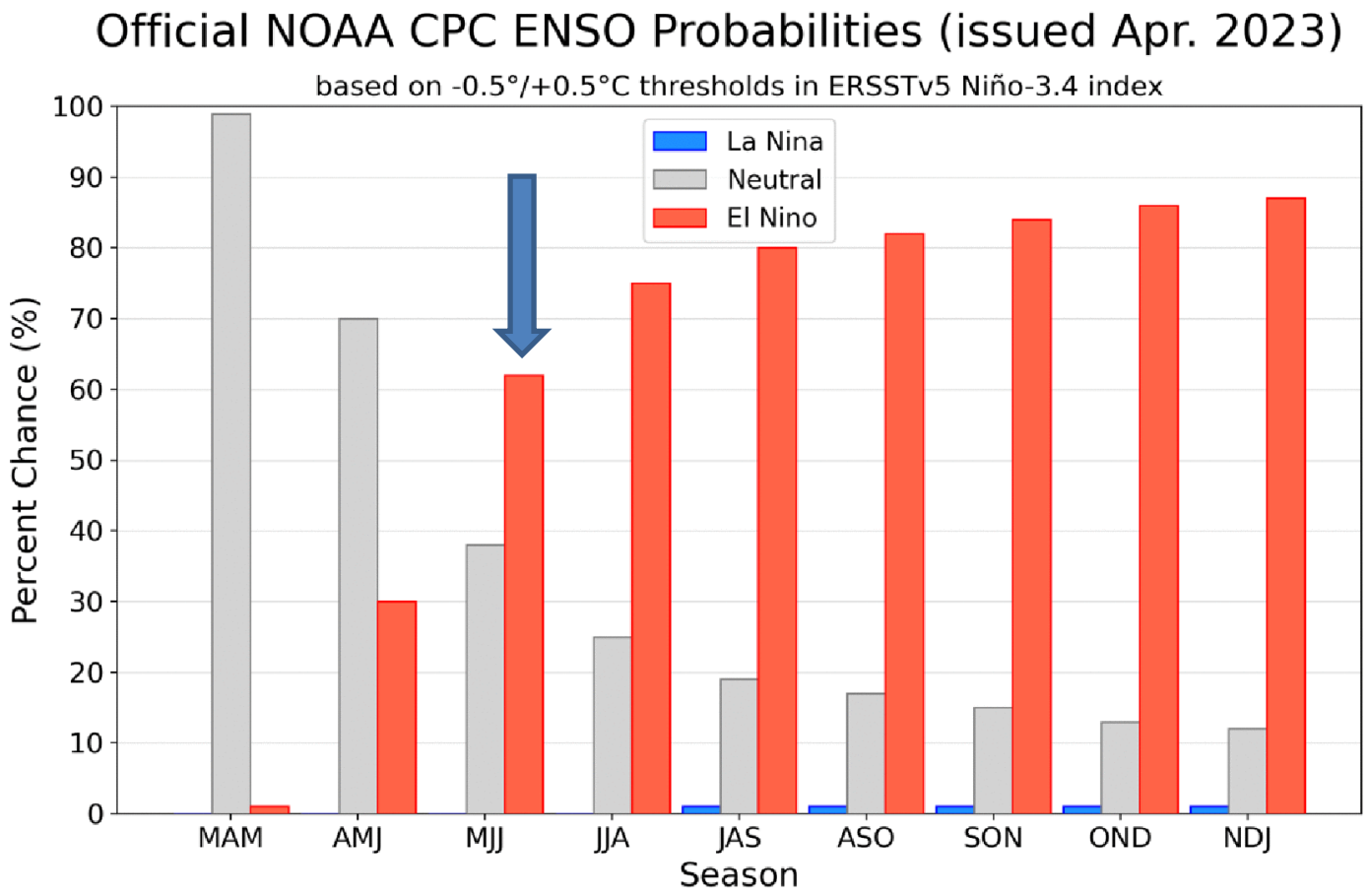
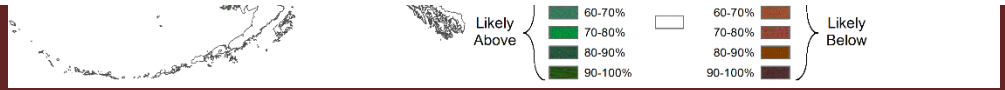
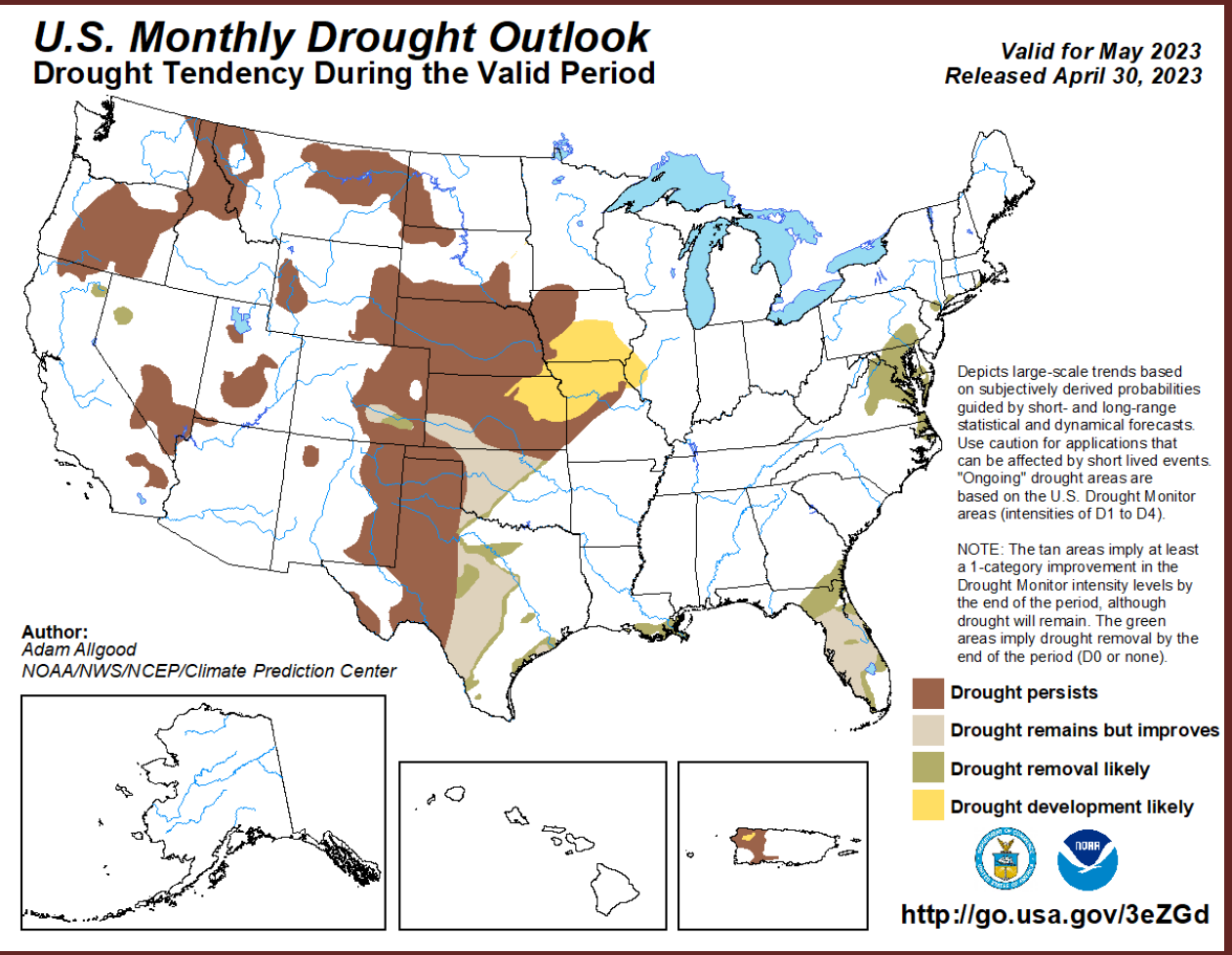


Figure 7. Official ENSO probabilities for the Niño 3.4 sea surface temperature index (5°N-5°S, 120°W-170°W). Figure updated 13 April 2023.



Drought in the Midwest/Plains



- Spring 2023 drought outlook – expecting some worsening in IA/MO.
- Drought may persist in the Plains.

Summary

- Spring planting began with few delays overall.
- Very dry soils west still a concern.
- Rapid snow removal contributing to flooding along major rivers and lowland problems – may be contributing to field work delays in some areas?
- Transition from La Nina should ease some drought concerns.
- Ongoing drought issues in Plains, though.

Next MAC-T Monthly Call

Next Call

June 7, 2023, 9-10am CT