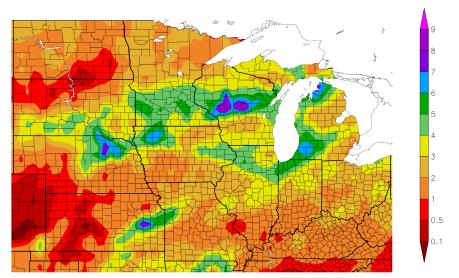
MAC-T Monthly Call

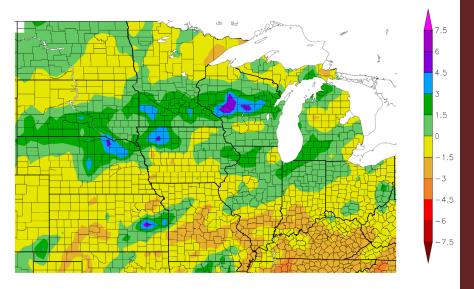
Midwest Agriculture and Climate Team



Precipitation (in) 10/1/2023 - 10/30/2023



Departure from Normal Precipitation (in) 10/1/2023 - 10/30/2023

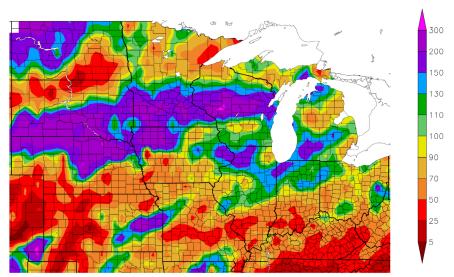


Generated 10/31/2023 at HPRCC using provisional data.

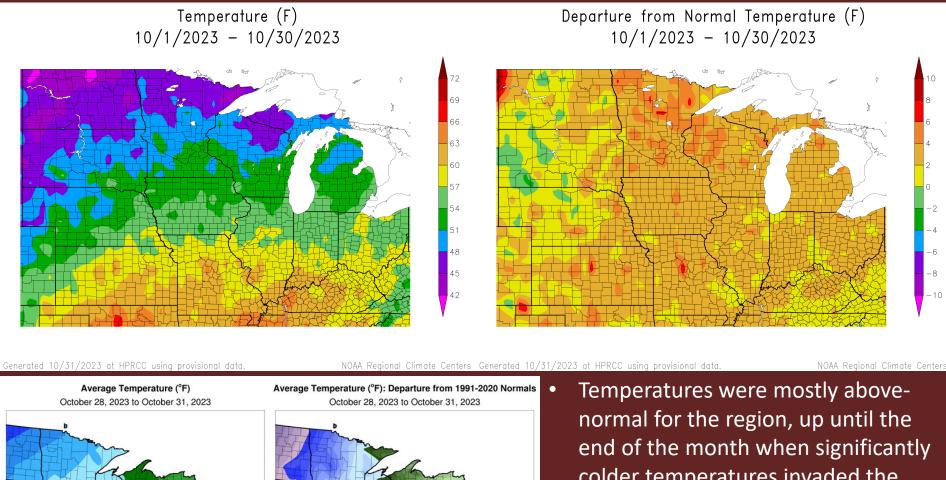
NOAA Regional Climate Centers Generated 10/31/2023 at HPRCC using provisional data.

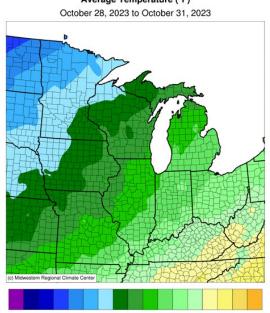
NOAA Regional Climate Centers

Percent of Normal Precipitation (%)10/1/2023 - 10/30/2023

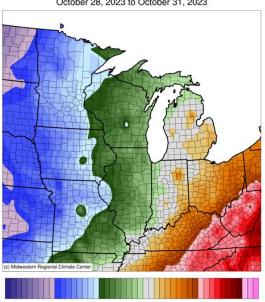


- A number of systems swept across the region over the past month, bringing much-need precipitation
- The northern states saw the most relief, particularly WI
- The southern states and parts of the northern states still lacked, with areas totaling < 1" of precip all month
- Snow arrived at the end of the month





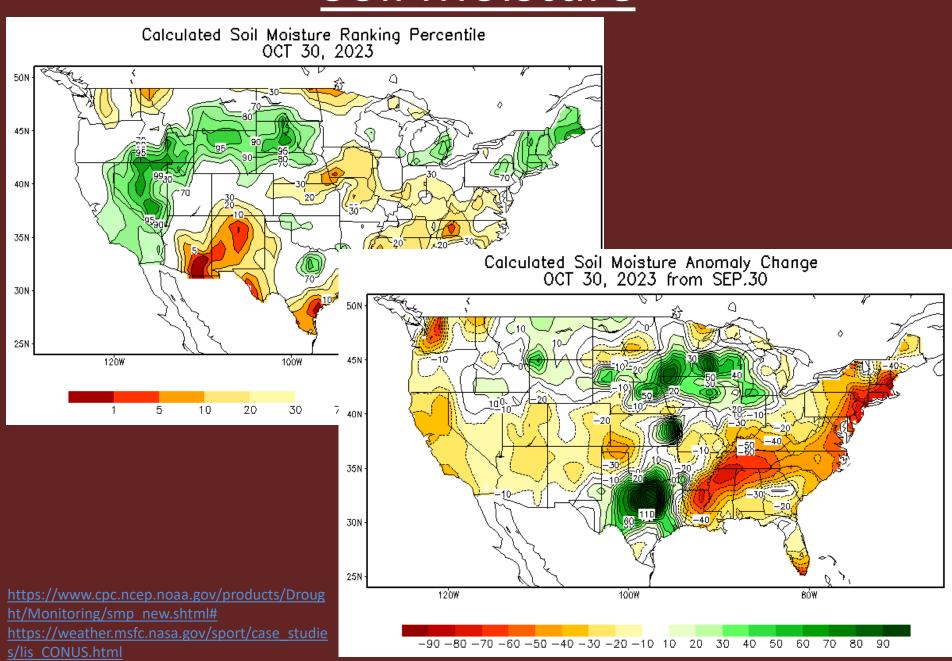
0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



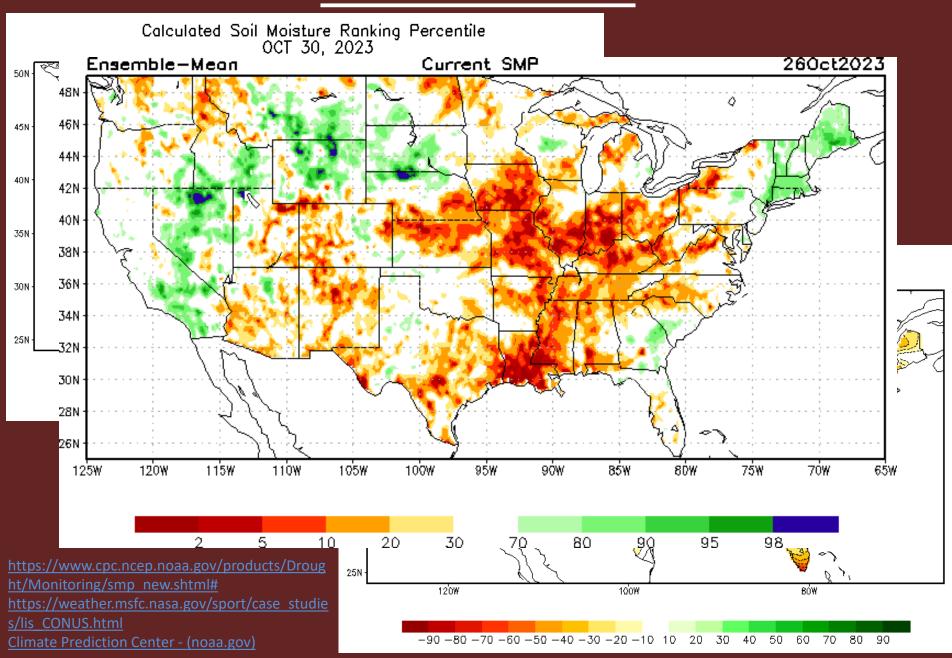
- colder temperatures invaded the region
- Bottom maps show the post-cold front average temps and departure from normal

https://hprcc.unl.edu/maps.php?map=ACISClimateMaps cli-MATE: MRCC Application Tools Environment (purdue.edu)

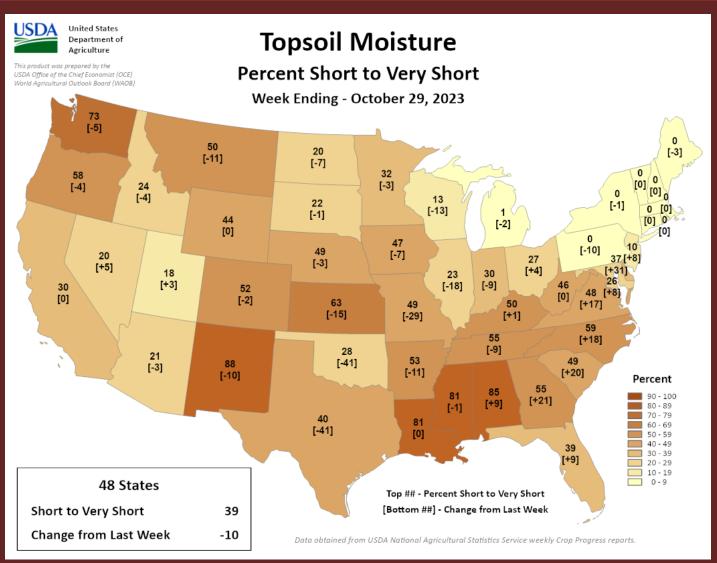
Soil Moisture



Soil Moisture

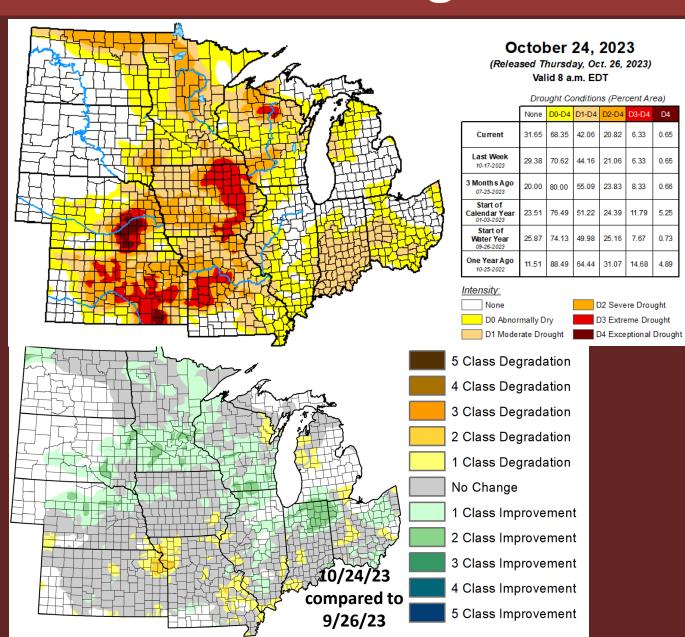


Soil Moisture (NASS)



 Improvement over the last week in all Midwestern and Plains states, except Ohio, thanks to the much-needed precipitation

US Drought Monitor



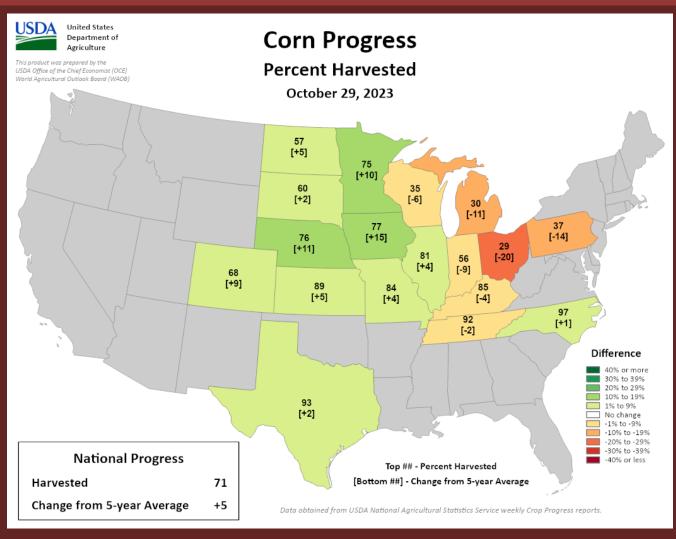
Drought conditions improved slowly over the last month as groundwater and streamflow have been slow to respond due to significant deficits

5.25

0.73

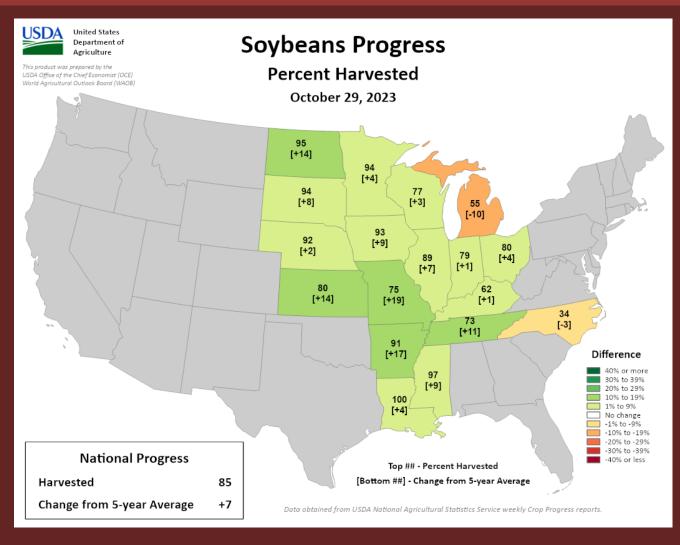
- Large areas of 1-to-2 class improvements
- Unfortunately, still areas of D4 and areas that have seen 1-2 class degradations

Corn Progress (NASS)



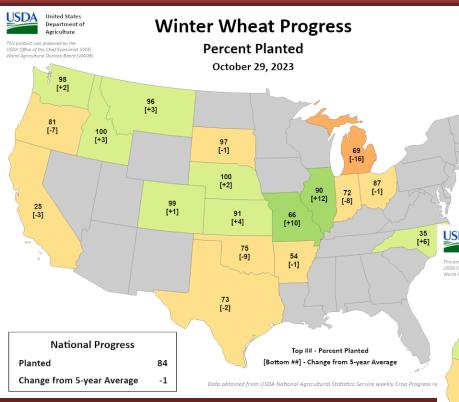
- Nationally, we were at 23% harvested on October 1. We are now at 71%.
- Harvest progressing nicely across the western states
- Unfortunately, behind the 5-year average in the east, with Ohio falling significantly behind

Soybean Progress (NASS)

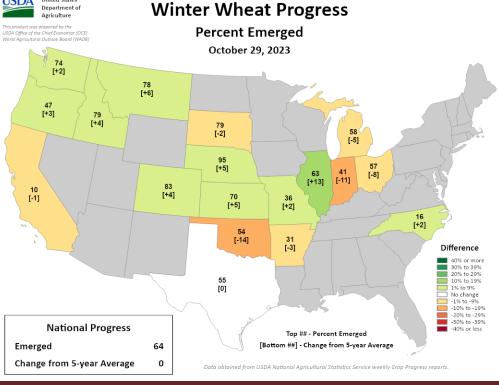


- Nationally, we were at 23% harvested on October 1. We are now at 85%.
- Harvest progressing nicely across the region, except for Michigan

Winter Wheat (NASS)



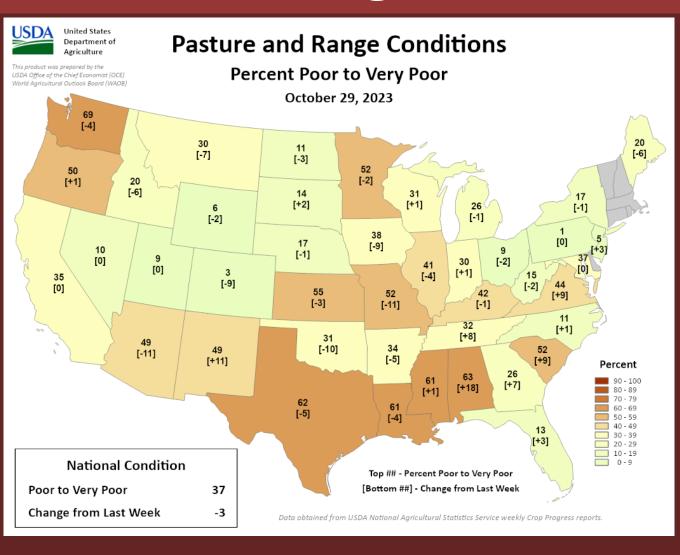
- Winter wheat planting nearing the end, with a mix of states ahead of and behind the 5-year average
- Emergence following the planting progress, with the west mostly ahead and east behind



https://agindrought.unl.edu/Other.aspx



Pasture/Range Conditions (NASS)



- Nationally, not much has changed over the last month
 - Oct 1: 35%
 - Oct 29: 37%
- Most of the Midwest and Plains are near normal

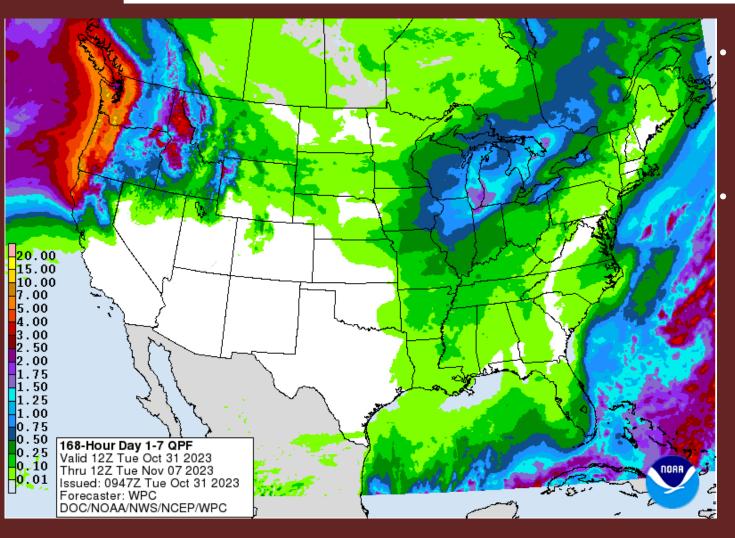


Assorted AG Issues

- While soil moisture has improved, soils remain dry through much of the region due to significant deficits
- Significant amount of corn and soybean harvest done
- Precip aided in winter wheat emergence; however, there are concerns about impacts of the cold blast
- Also concerns for livestock health e.g., pneumonia –
 with the drastic change in temperature
- Slight increase in lower Mississippi River levels
- Fire is still a very legitimate concern



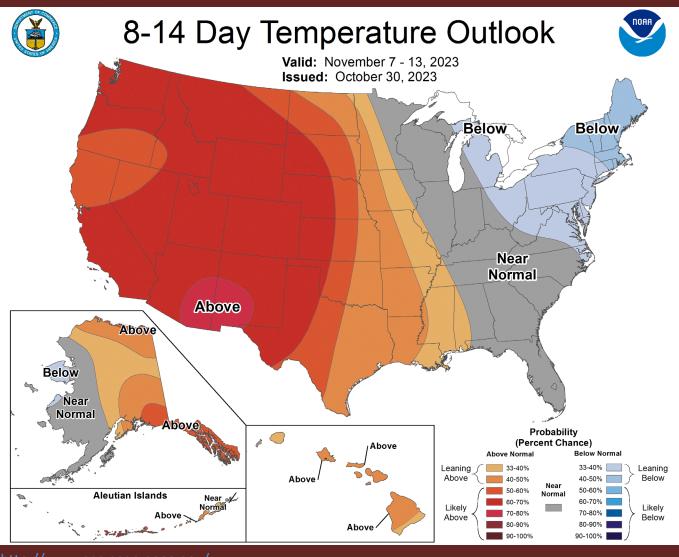
Forecasted Precip Oct 31 – Nov 7



- At least some precip forecasted for almost the entire region over the next week
- Potentially heavier precip this weekend over the Great Lakes region

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

8-14 Day Temperature Outlook

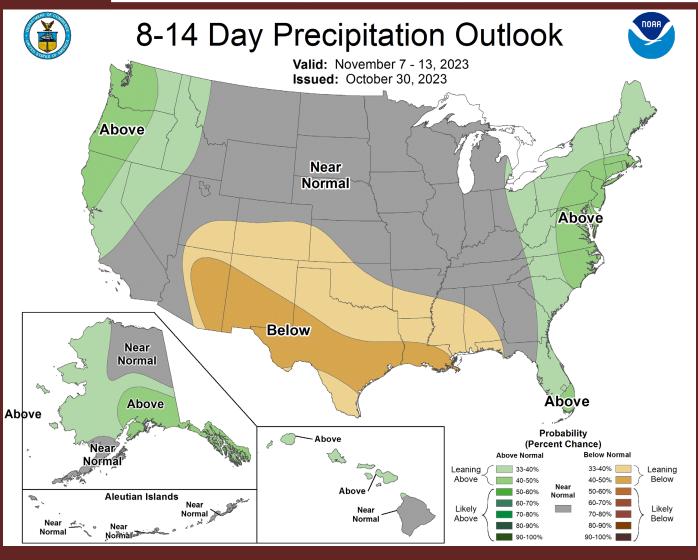


- A change in temperature patterns in the next 8-14 days
- The western half of the region has the potential to see above-normal temperatures
- Michigan and Ohio may see belownormal temperatures
- Near-normal temperatures for the central states

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



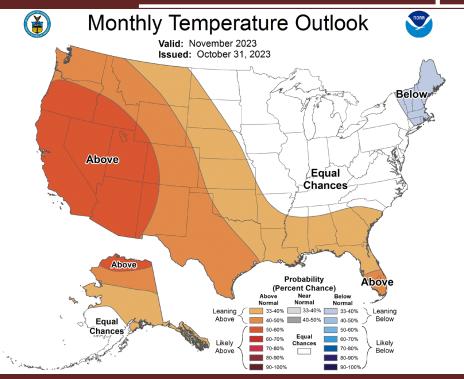
8-14 Day Precipitation Outlook

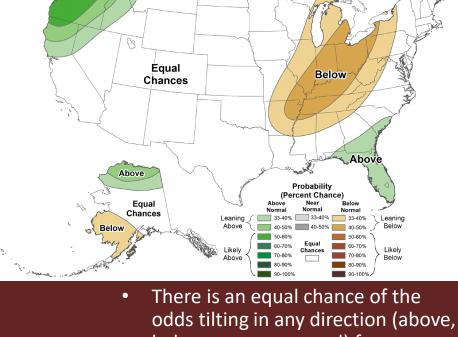


- Near-normal precipitation for most of the region
- Slight chance wetter for eastern Ohio

1-Month Temperature Outlook

Above





Monthly Precipitation Outlook

Valid: November 2023

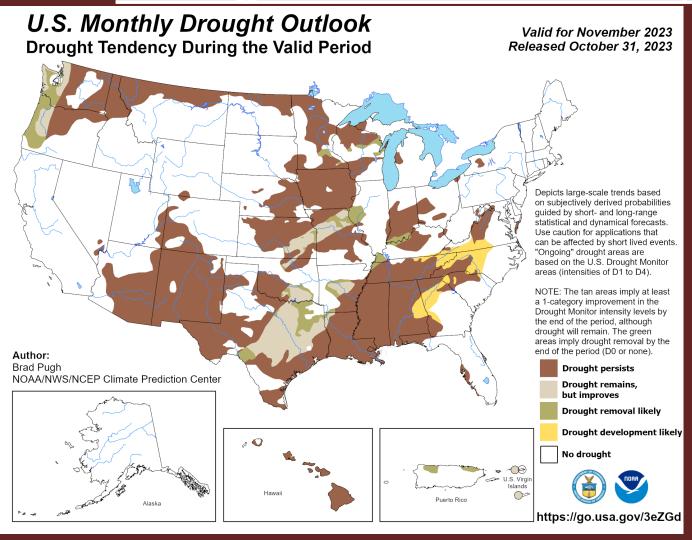
Issued: October 31, 2023

- There is an equal chance of the odds tilting in any direction (above, below, or near normal) for temperatures in the Midwest over the next month
- Leaning above normal for some of the Plains

- There is an equal chance of the odds tilting in any direction (above below, or near normal) for precipitation in the western Midwest states and the Plains
- Leaning below normal for the eastern Midwest states



Drought in the Midwest/Plains

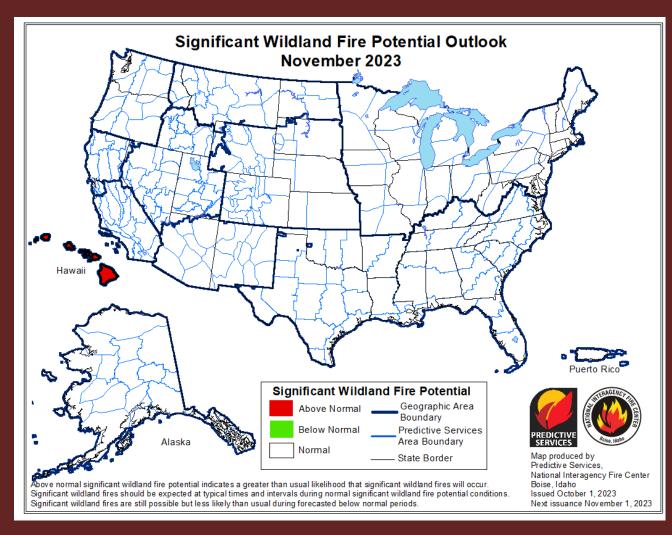


 Drought will likely persist for many over the next month, but will hopefully see improvements where subseasonal events bring precipitation

Climate Prediction Center - United States Drought Information (noaa.gov)



Fire in the Midwest/Plains



 Fire risk is considered "normal" for the month of November according to NIFC

<u>Summary</u>

 Drought persists, with some improvement due to late-October precipitation

Corn and soybean harvest nearly finished

Concerns for winter crop and livestock health with the cold

 El Niño-esque winter set-up, with influences from subseasonal events

Next MAC-T Monthly Call

Next Call ?

