

MAC-T Monthly Call

Midwest Agriculture and Climate Team

21 September 2023

For more information:

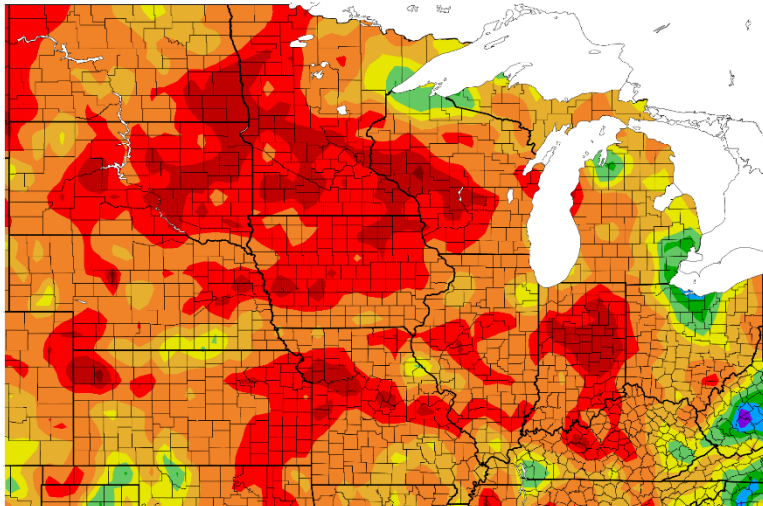
Dennis.todey@usda.gov



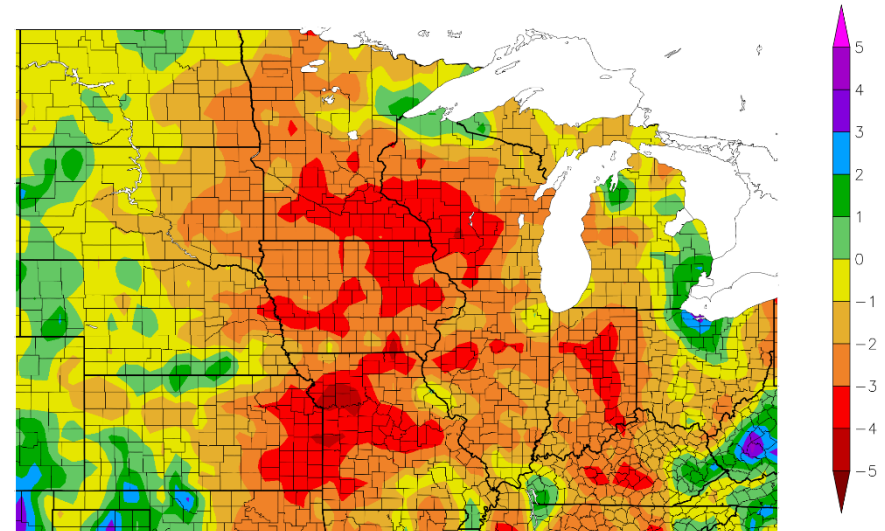
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U.S. DEPARTMENT OF AGRICULTURE



Precipitation (in)
8/21/2023 – 9/19/2023



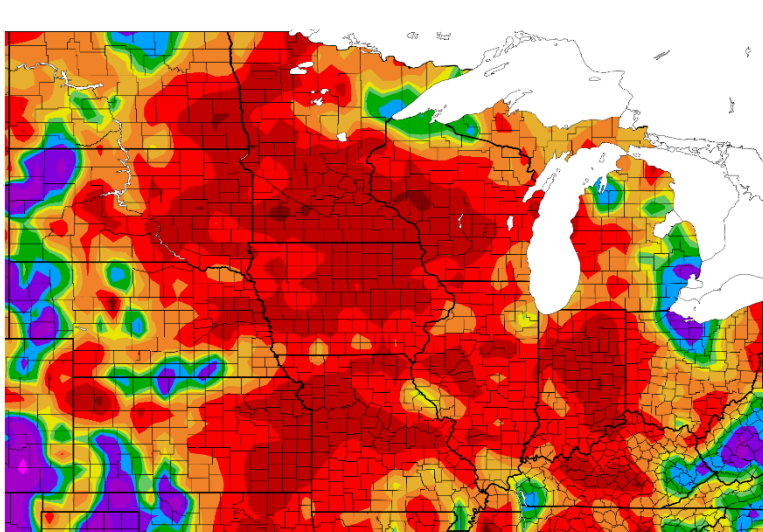
Departure from Normal Precipitation (in)
8/21/2023 – 9/19/2023



Generated 9/20/2023 at HPRCC using provisional data.

NOAA Regional Climate Centers

Percent of Normal Precipitation (%)
8/21/2023 – 9/19/2023



Generated 9/20/2023 at HPRCC using provisional data.

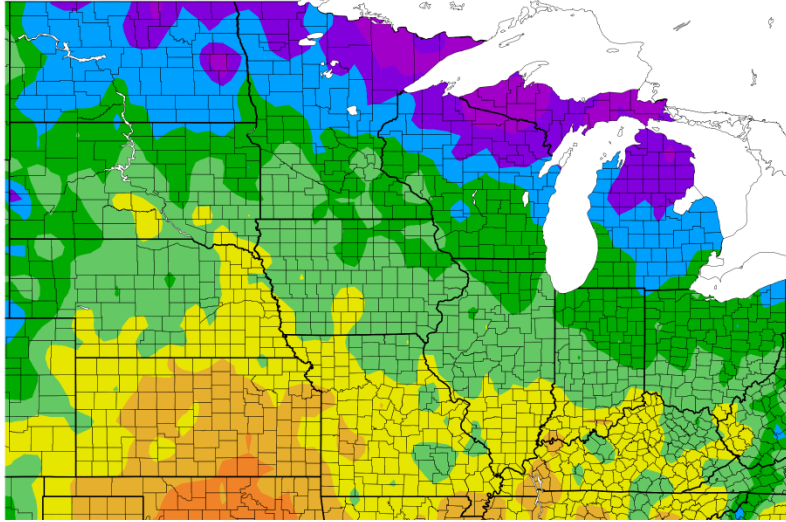
NOAA Regional Climate Centers

Generated 9/20/2023 at HPRCC using provisional data.

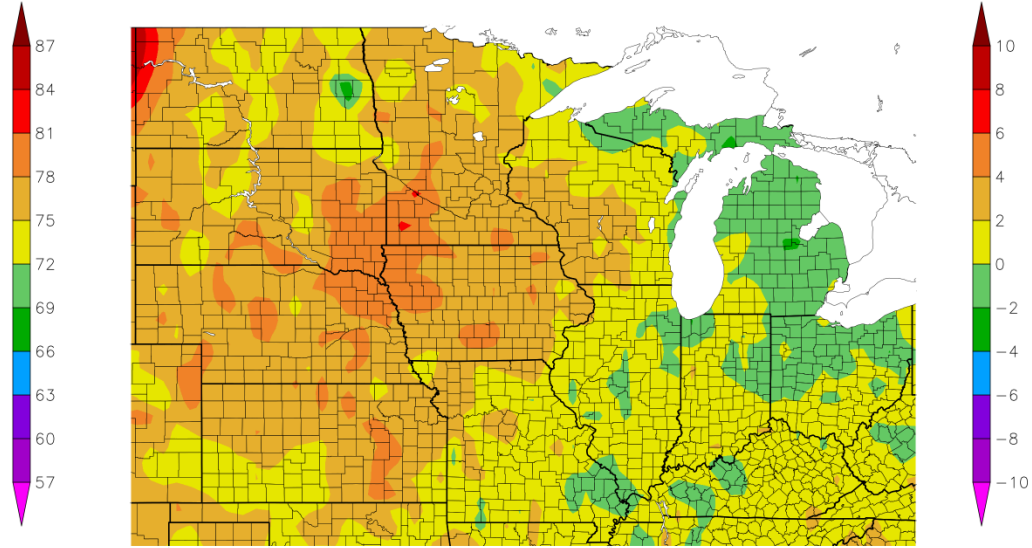
NOAA Regional Climate Centers

- Still widespread dryness across the region.
- Pockets of wetter around periphery of region.

Temperature (F)
8/21/2023 – 9/19/2023



Departure from Normal Temperature (F)
8/21/2023 – 9/19/2023



Generated 9/20/2023 at HPRCC using provisional data.

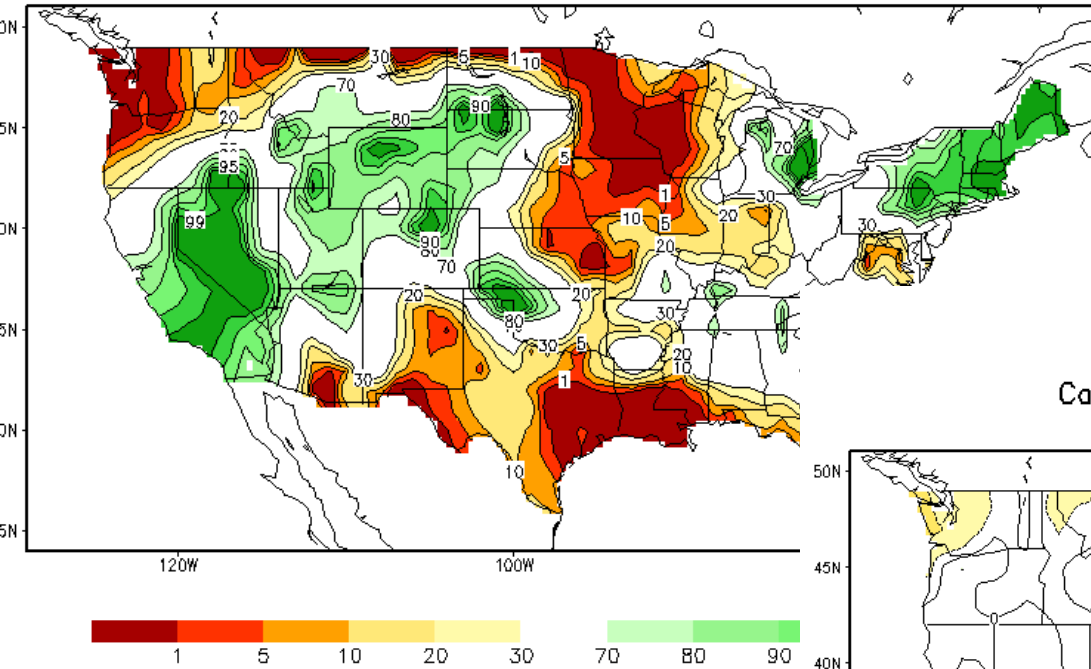
NOAA Regional Climate Centers Generated 9/20/2023 at HPRCC using provisional data.

NOAA Regional Climate Centers

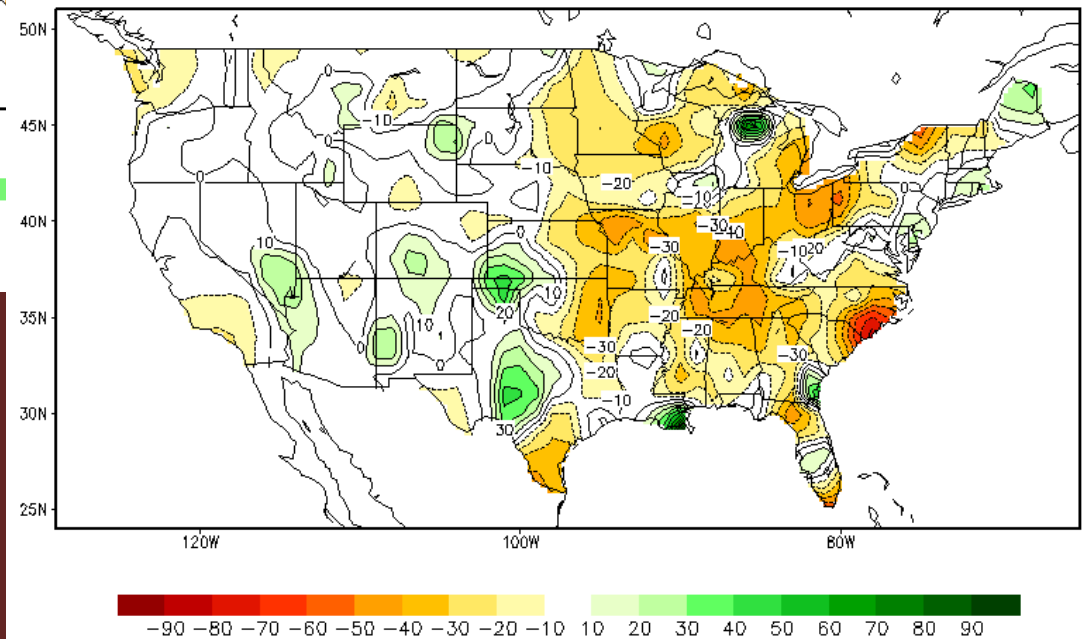
- Warmest area southwest
- Most of the region above average (1-6 F).
- Parts of the northeastern Corn Belt slightly below average (1-2F)

Soil Moisture

Calculated Soil Moisture Ranking Percentile
SEP 19, 2023



Calculated Soil Moisture Anomaly Change
SEP 19, 2023 from AUG.31



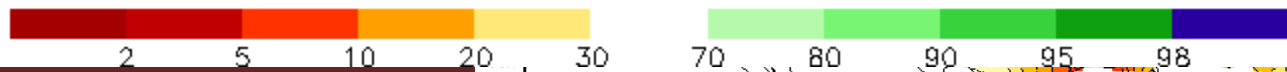
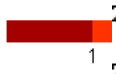
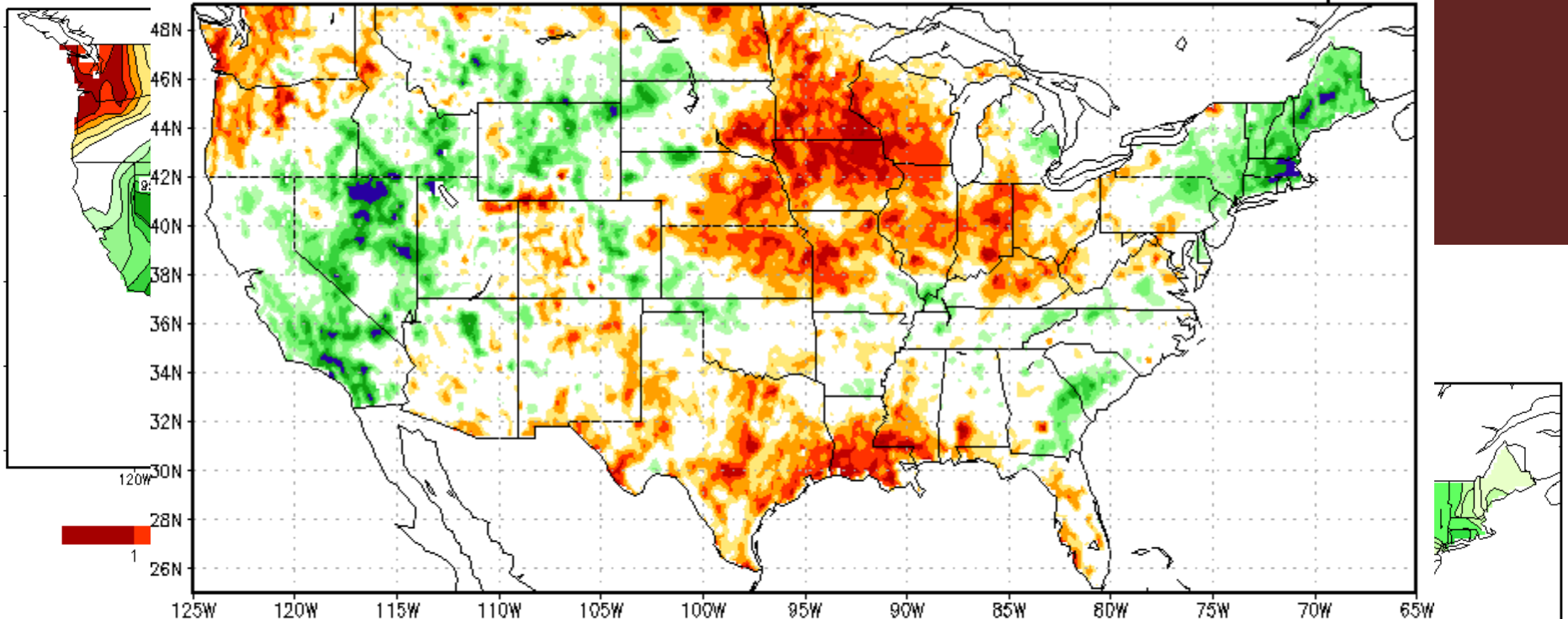
Soil Moisture

Calculated Soil Moisture Ranking Percentile

Ensemble-Mean

Current SMP

15Sep2023



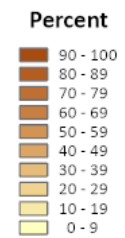
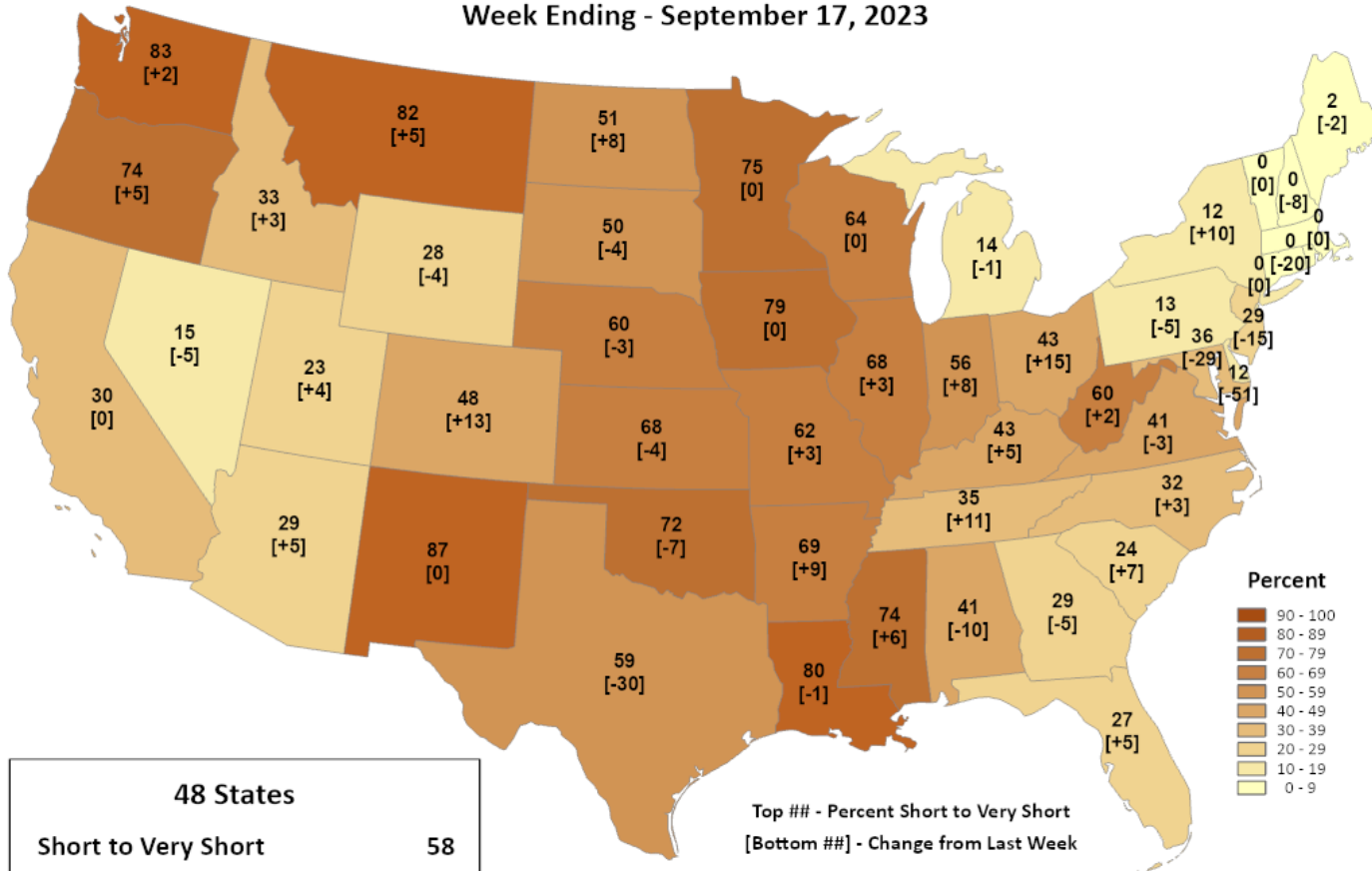
https://www.cpc.ncep.noaa.gov/products/Drought/Monitoring/smp_new.shtml

Soil Moisture (NASS)



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

Topsoil Moisture Percent Short to Very Short Week Ending - September 17, 2023



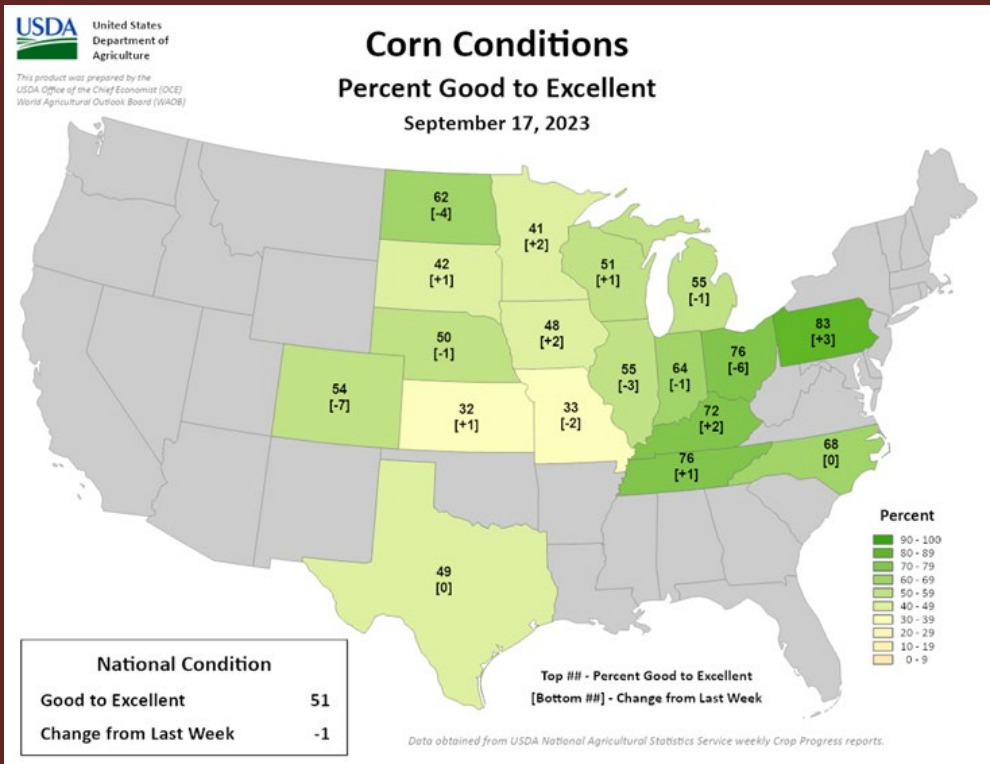
48 States	
Short to Very Short	58
Change from Last Week	0

Top ## - Percent Short to Very Short
Bottom ## - Change from Last Week

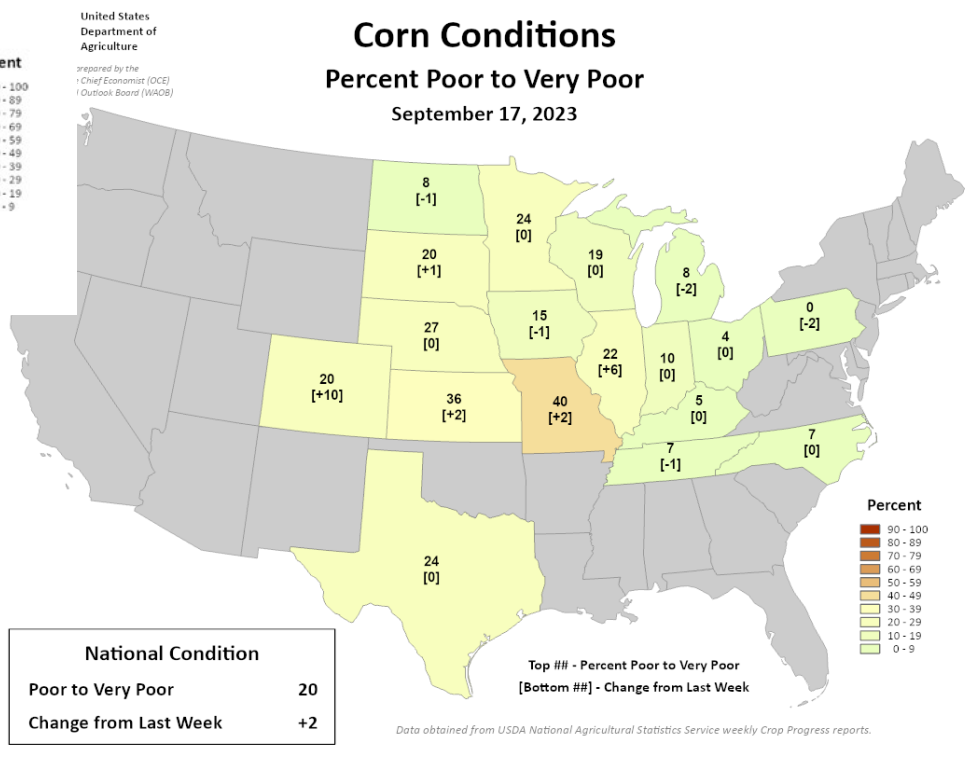
Data obtained from USDA National Agricultural Statistics Service weekly Crop Progress reports.

- Still have a significant amount of S-VS soil moisture.
- Central states remain the worst.

Corn Conditions (NASS)

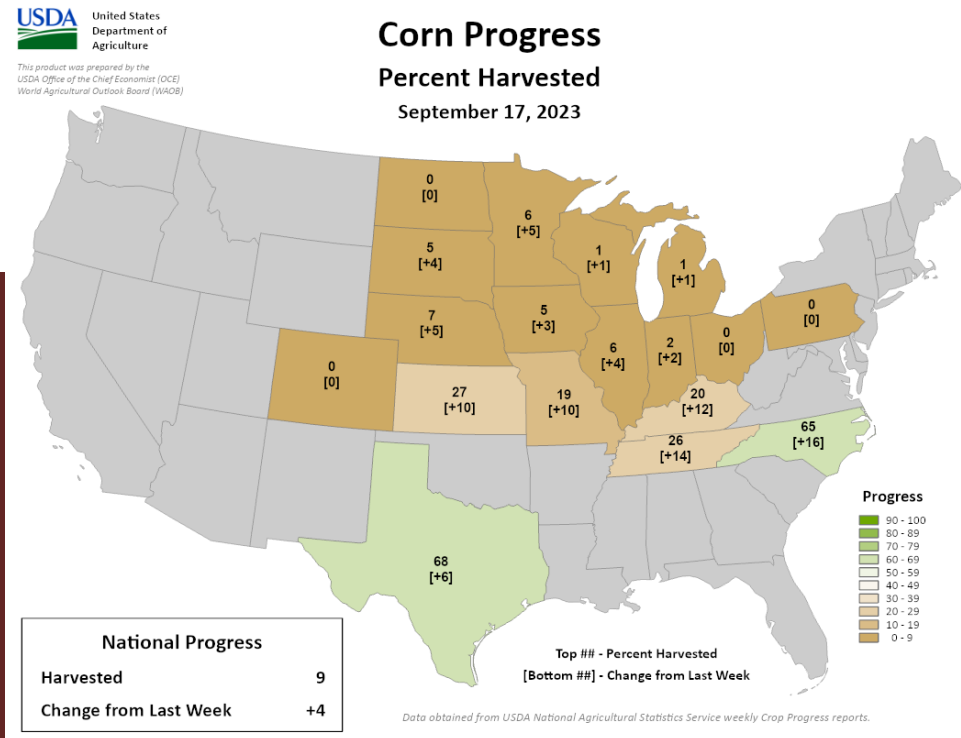
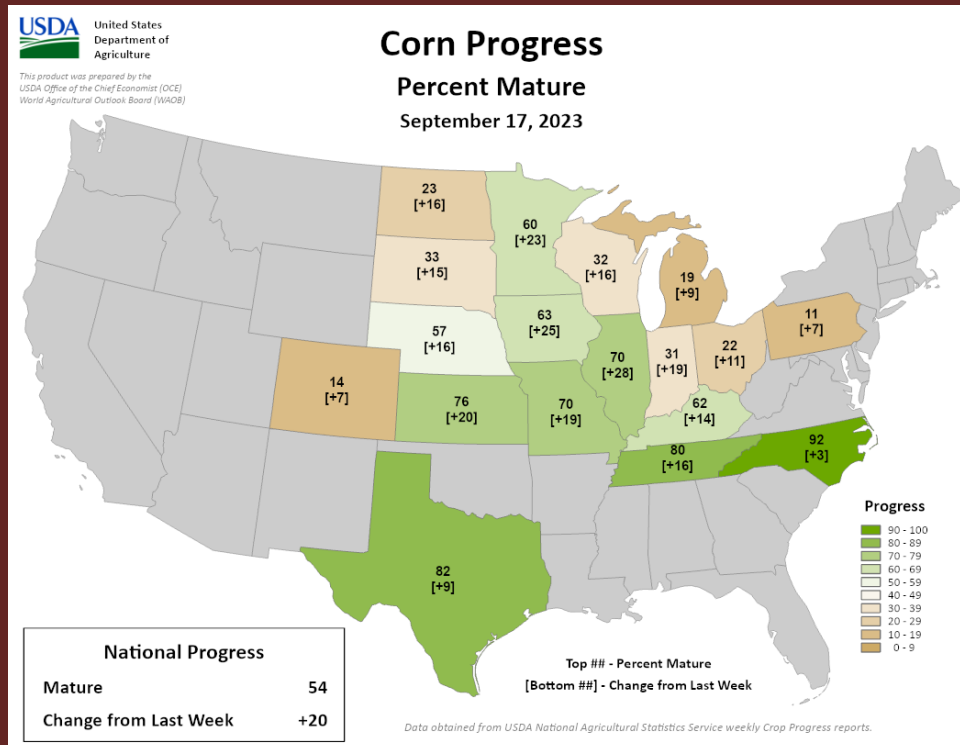


- Some tweaks in corn conditions across the region.
- Growing season ending – conditions a little hard to assess.



Corn Conditions (NASS)

- Large areas east maturity still slow.
- Harvest making good progress – 9% nationally.



Soybean Conditions (NASS)

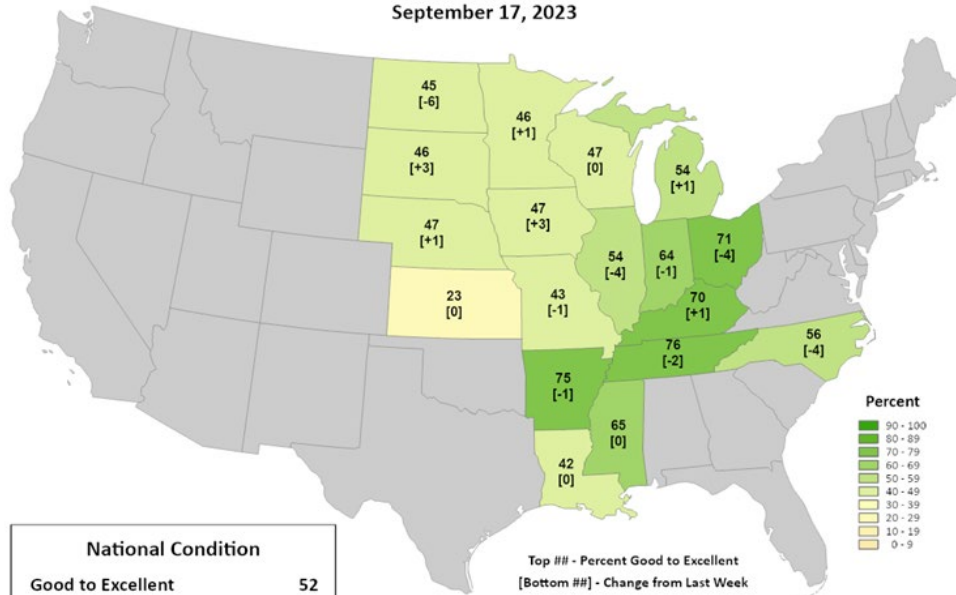


This product was prepared by the
USDA Office of the Chief Economist (OCE)
World Agricultural Outlook Board (WAOB)

Soybean Conditions

Percent Good to Excellent

September 17, 2023



National Condition

Good to Excellent 52

Change from Last Week 0

Top ## - Percent Good to Excellent
[Bottom ##] - Change from Last Week

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

- Soybean conditions following a similar pattern to corn conditions.
 - Some small improvement in conditions in the upper Midwest.
 - Conditions worsening slightly across the Corn Belt.

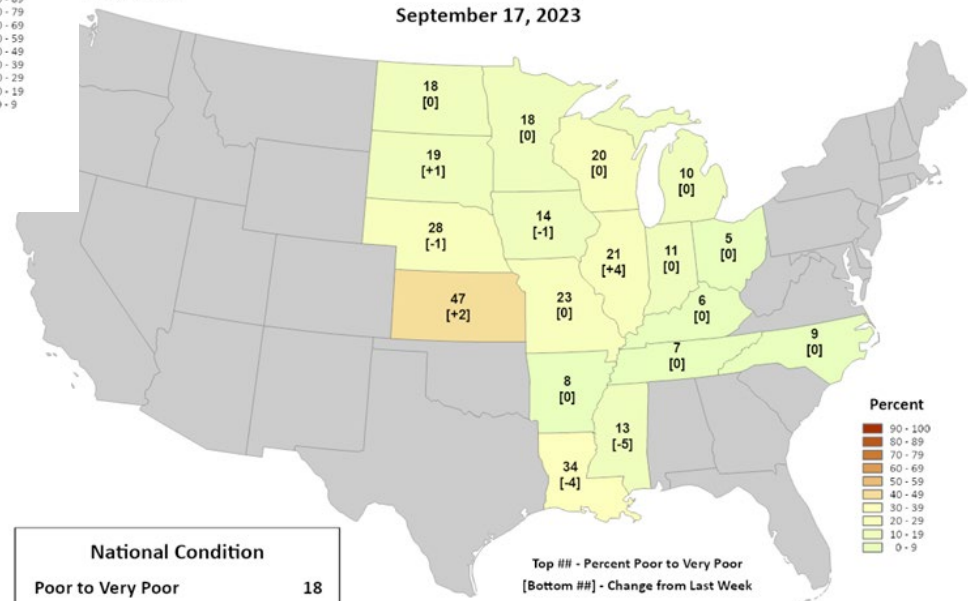


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USDA Office of the Chief Economist (OCE)
World Agricultural Outlook Board (WAOB)

Soybean Conditions

Percent Poor to Very Poor

September 17, 2023



National Condition

Poor to Very Poor 18

Change from Last Week 0

Top ## - Percent Poor to Very Poor
[Bottom ##] - Change from Last Week

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

Soybean Conditions (NASS)



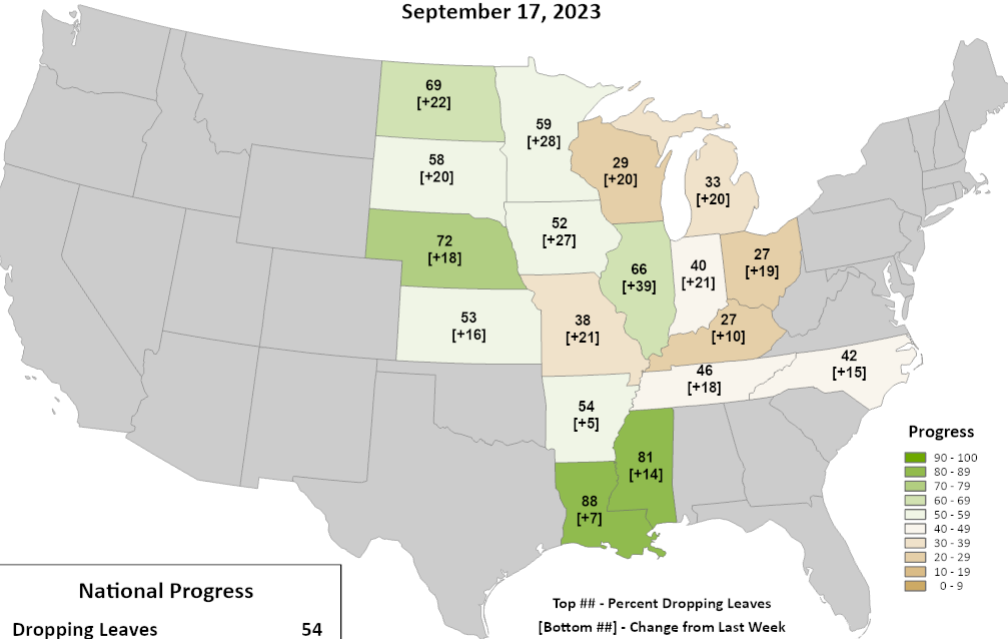
United States
Department of
Agriculture

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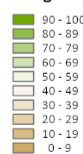
Soybeans Progress

Percent Dropping Leaves

September 17, 2023



Progress



Top ## - Percent Dropping Leaves
Bottom ## - Change from Last Week

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

National Progress

Dropping Leaves	54
Change from Last Week	+23

- Soybean slower east also – and Missouri.
- Slower harvest progress on soybeans

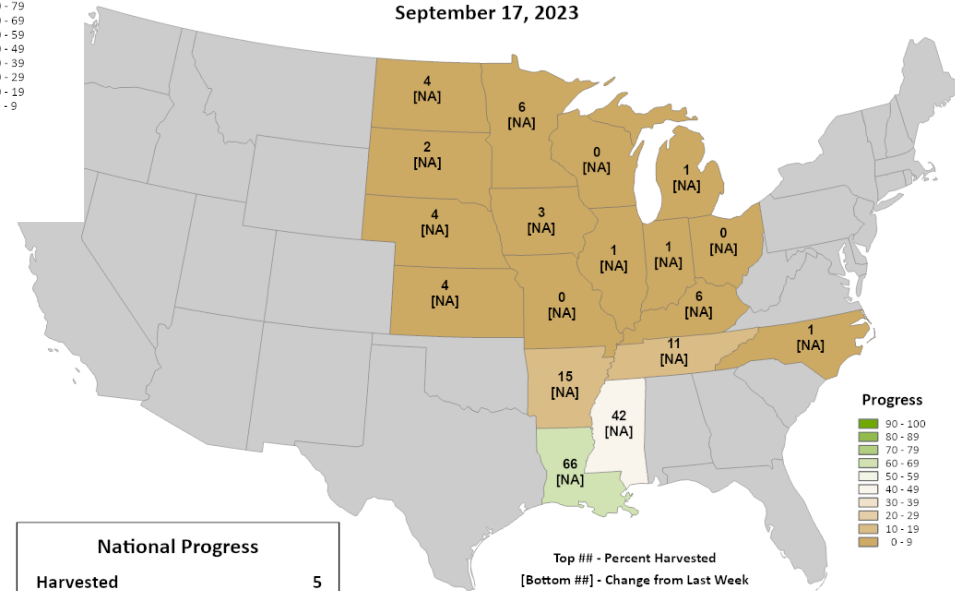
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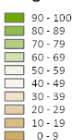
Soybeans Progress

Percent Harvested

September 17, 2023



Progress



Top ## - Percent Harvested
Bottom ## - Change from Last Week

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

National Progress

Harvested	5
Change from Last Week	NA



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Pasture/Range Conditions (NASS)



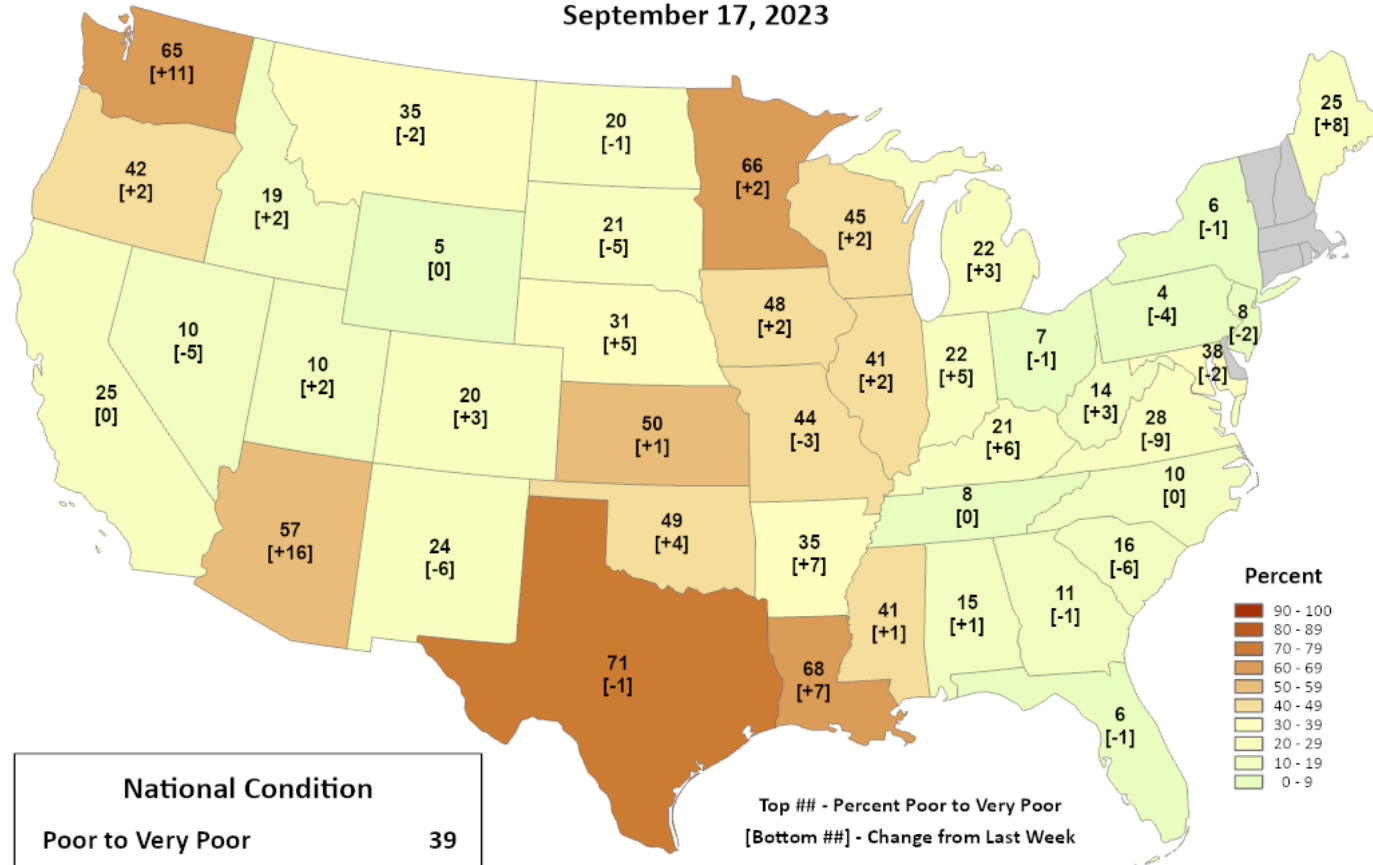
United States
Department of
Agriculture

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

Pasture and Range Conditions

Percent Poor to Very Poor

September 17, 2023



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



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

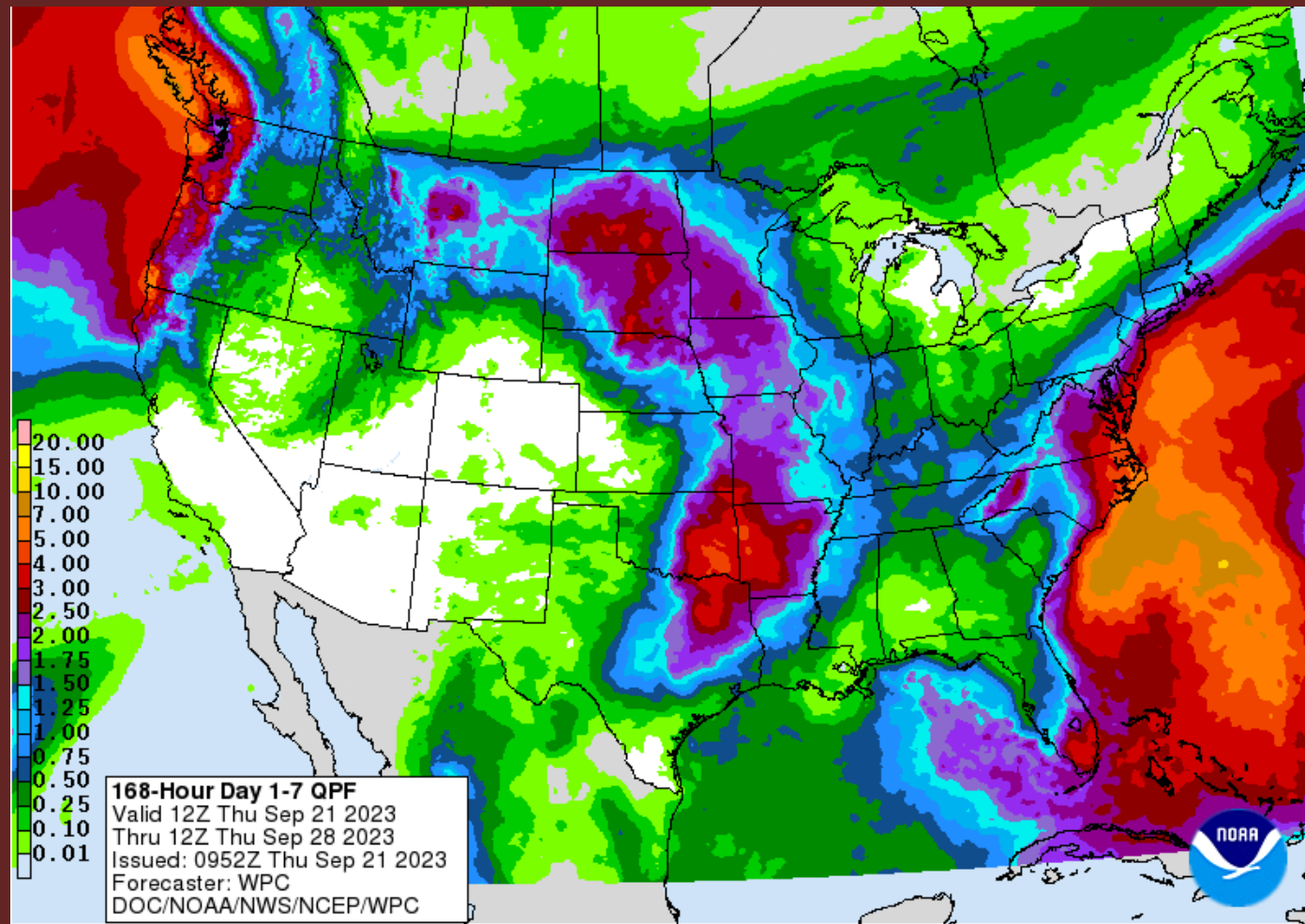
Assorted AG Issues

- Soils remain dry through much of the central states in the region
- Crops reaching maturity quickly
- Concern on stalk issues with corn in drought areas.
- Hints at rain good for fall seeding and starting soil moisture recovery
- Specialties seem good
- Mississippi River transportation issues continue
- Fire – very legitimate concern

Fire Issues

- Finalizing fire hazard document to share regionally. Input from various partners.
- Met with mostly IA/IL people to discuss options. Other conversations have occurred – including SCs, Ext. Ems, NWS, other fire folks
- Working on another meeting to update and connect next week.

1-7 Day Precip



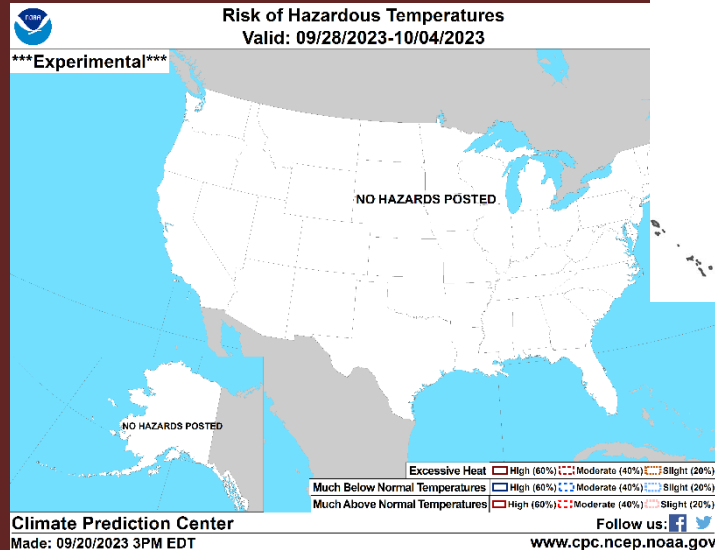
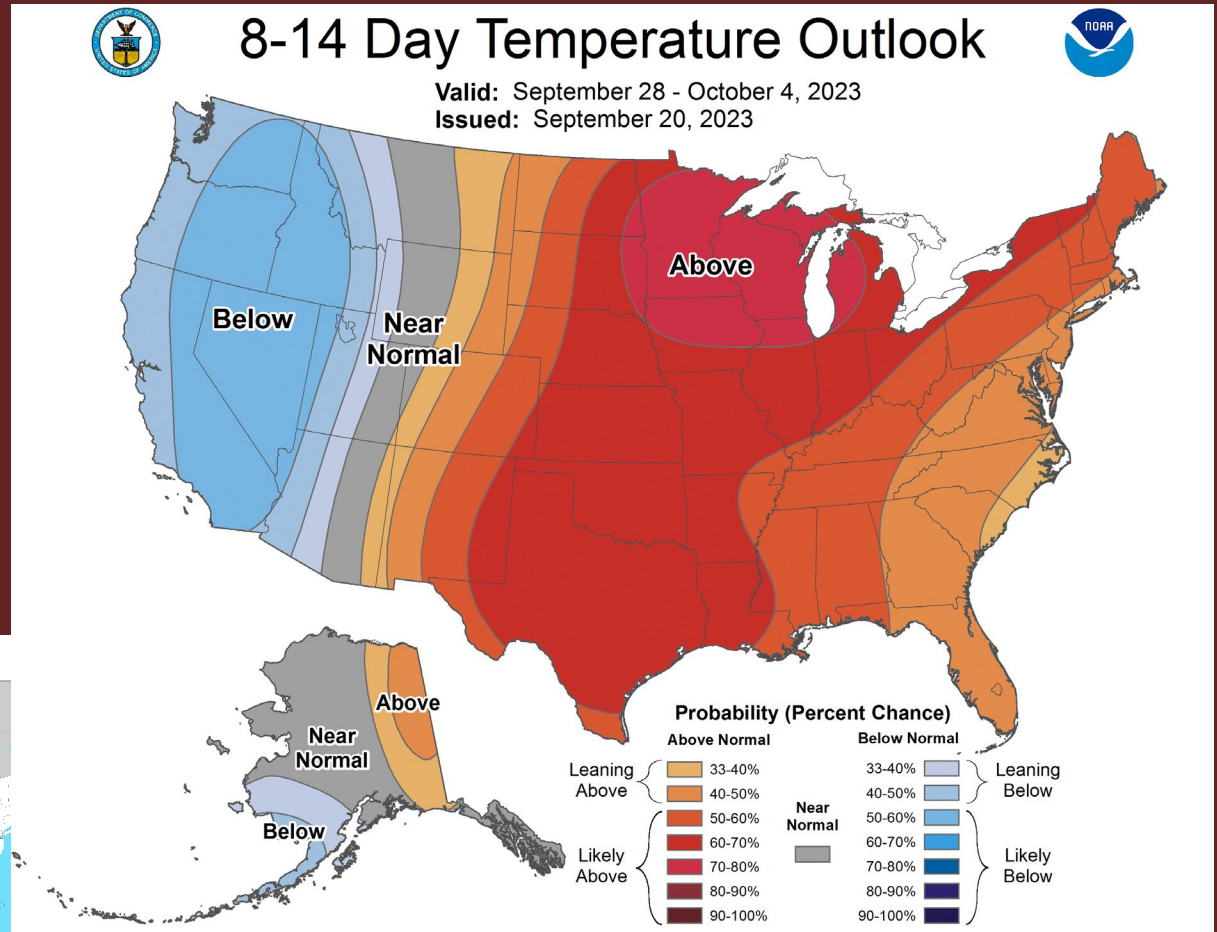
Next 7 days

- Mostly moderate temperatures.
- Increasing rainfall amounts possible northern Plains and central US.

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

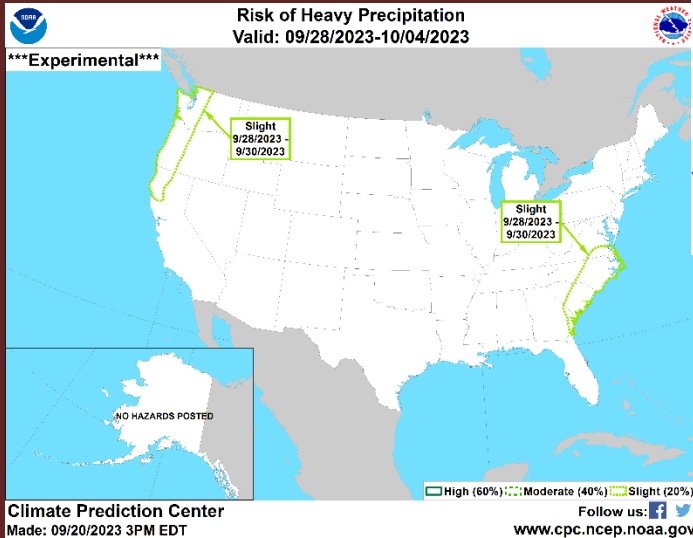
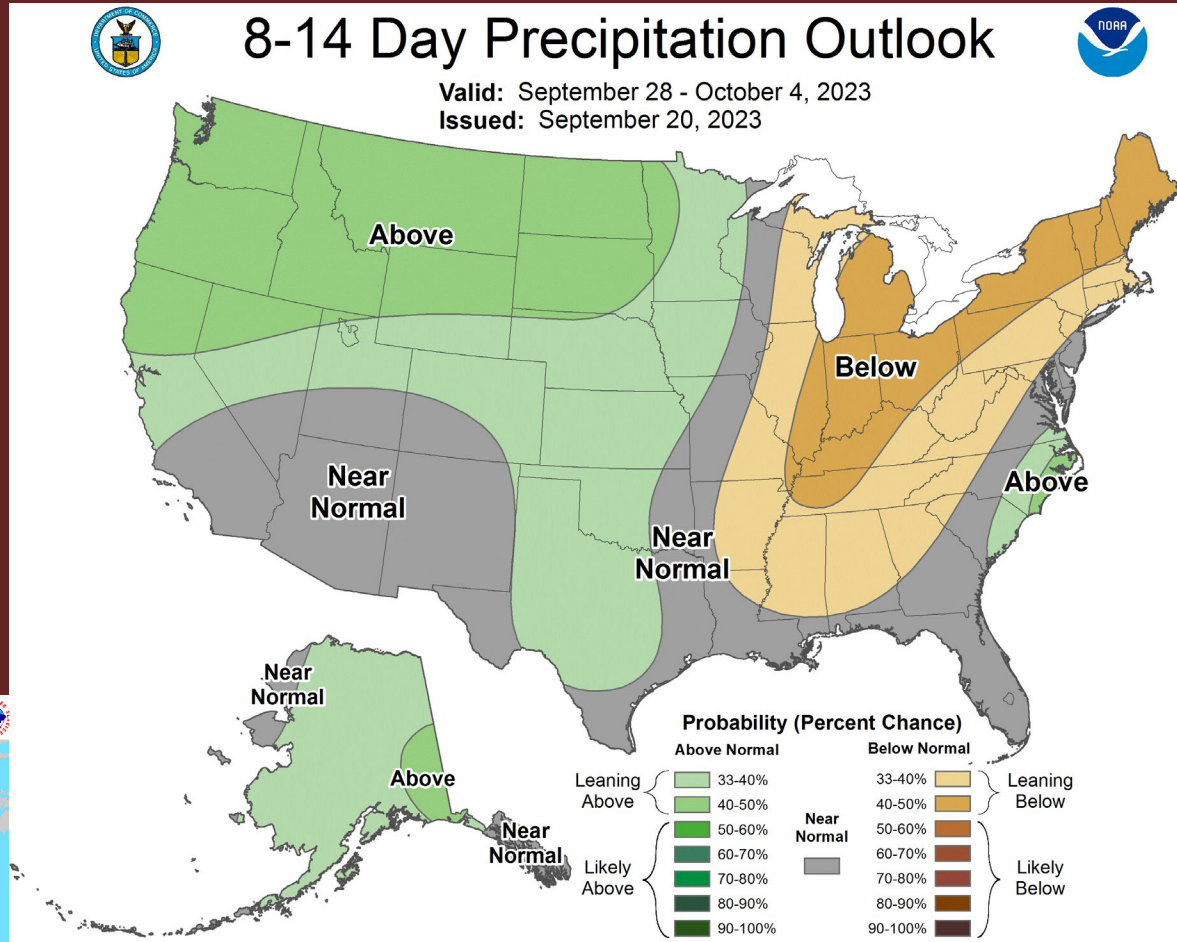
Temperature Outlook

- Temperatures very likely above average across the entire region.
- No risk of hazardous temperatures.



Precipitation Outlook

- Slight chance wetter in the western half of MN and IA, as well as into the Plains.
- Band of near normal precipitation stretching down the central portion of the region.
- Leaning below average precipitation across the eastern half of the region.



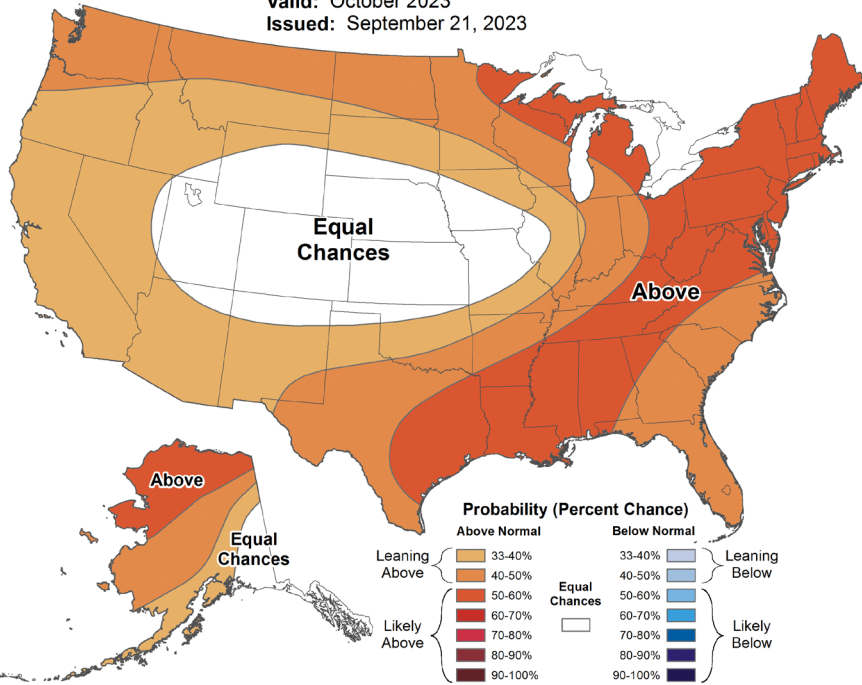
1-Month Outlook



Monthly Temperature Outlook



Valid: October 2023
Issued: September 21, 2023



October Monthly Outlook

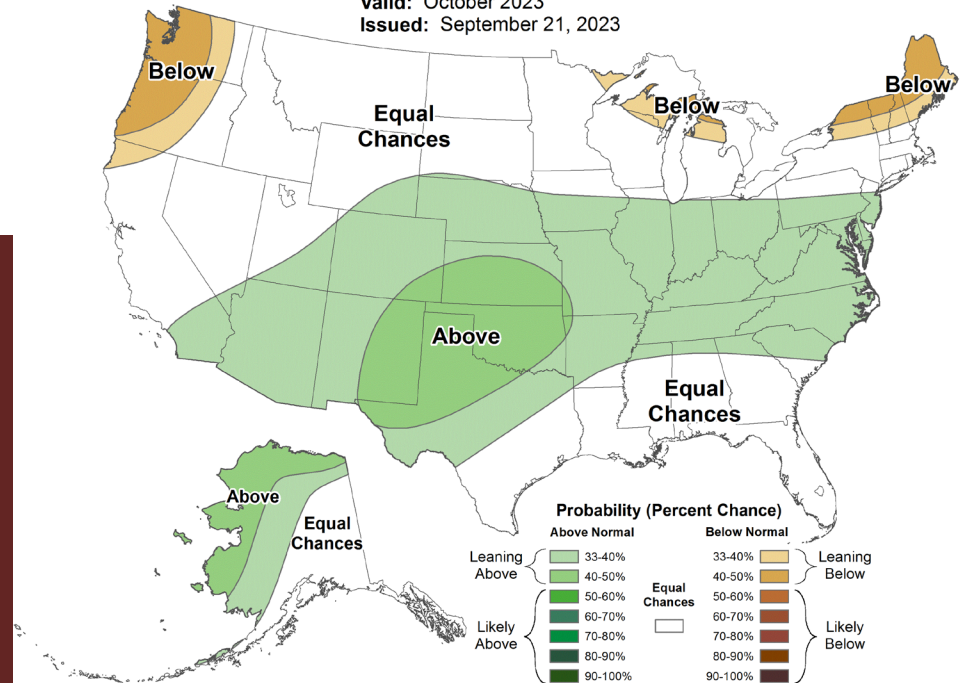
- Odd configuration – more likely warmer across most of area except central Plains.
- Slightly higher chance precipitation south of I-80.



Monthly Precipitation Outlook



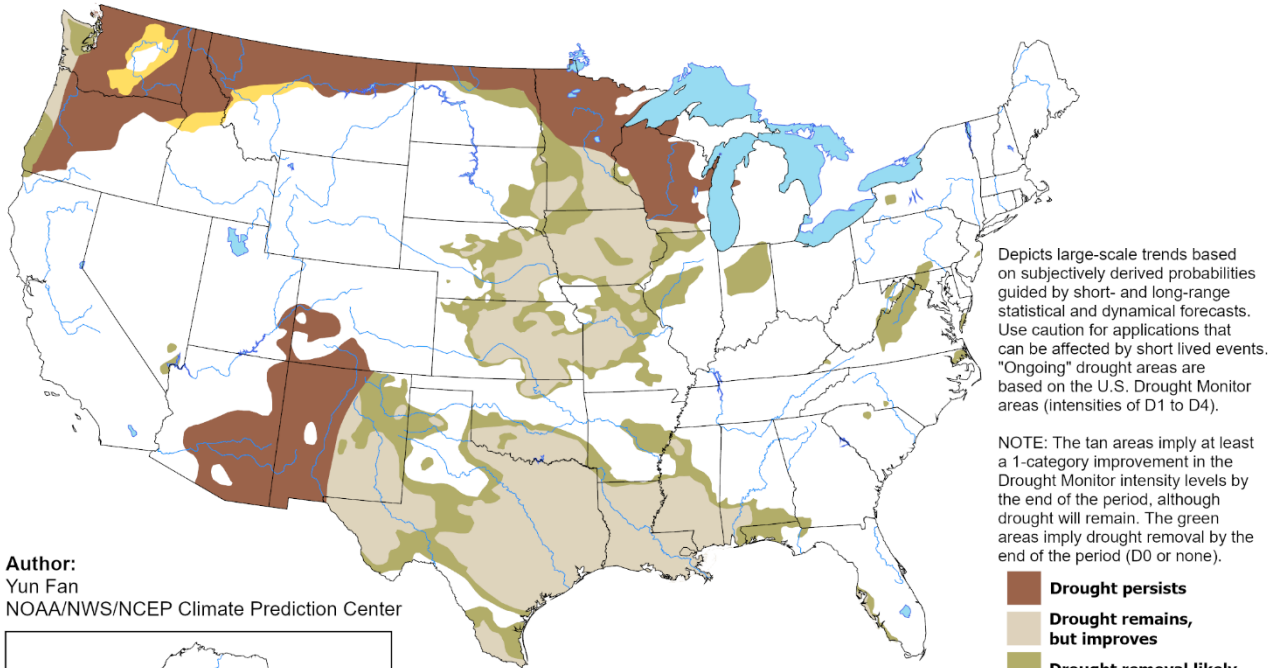
Valid: October 2023
Issued: September 21, 2023



Drought in the Midwest/Plains

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

Valid for September 21 - December 31, 2023
Released September 21, 2023

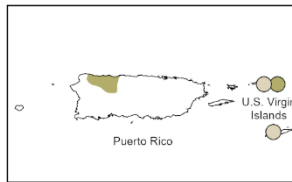
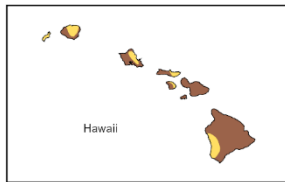


Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to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



<https://go.usa.gov/3eZ73>

- Seasonal drought outlook
- Improvement possible across much of region – though elimination unlikely.
- Drought persistence across far north into Wisconsin.

Summary

- Drought persists but some possible improvement with return of some rain. Elimination unlikely for a while.
- Harvest ramping up
- Need to monitor fire potential

Next MAC-T Monthly Call

Next Call

October 4, 2023, 9-10am CT