

# MAC-T Monthly Call

Midwest Agriculture and Climate Team

6 September 2023

For more information:

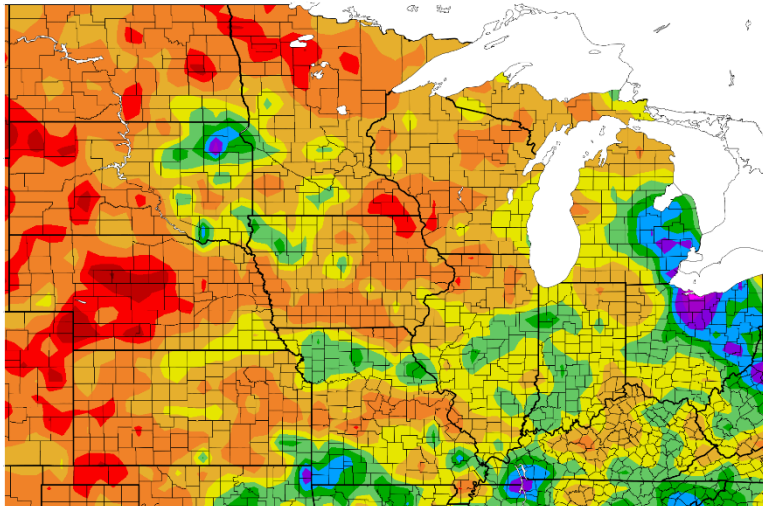
[Dennis.todey@usda.gov](mailto:Dennis.todey@usda.gov)



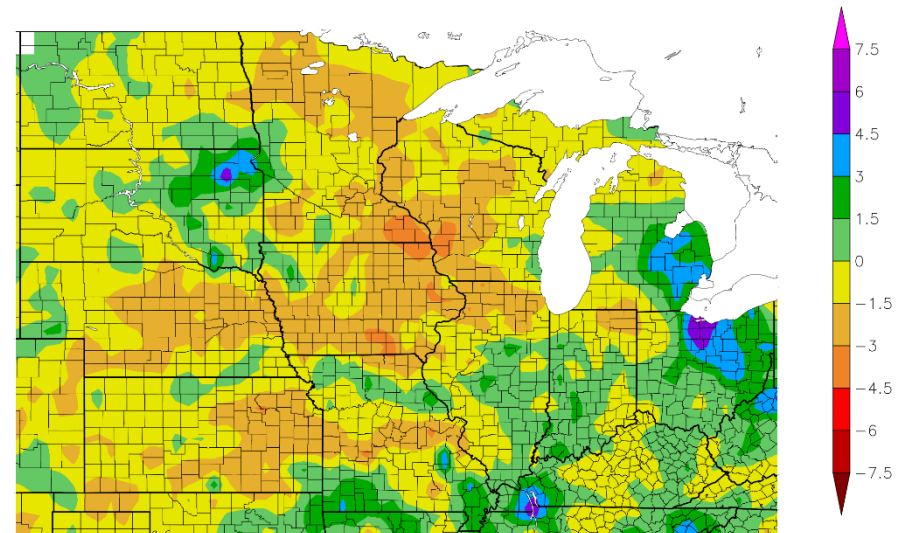
Midwest Climate Hub  
U.S. DEPARTMENT OF AGRICULTURE



Precipitation (in)  
8/6/2023 – 9/4/2023



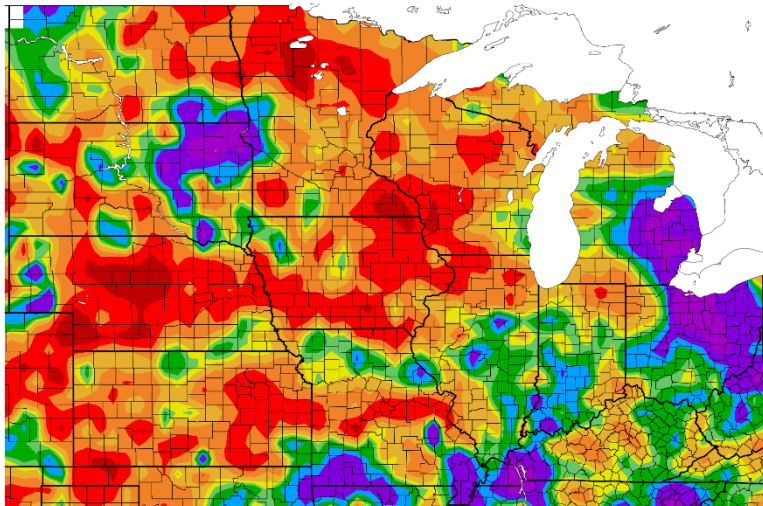
Departure from Normal Precipitation (in)  
8/6/2023 – 9/4/2023



Generated 9/5/2023 at HPRCC using provisional data.

NOAA Regional Climate Centers

Percent of Normal Precipitation (%)  
8/6/2023 – 9/4/2023



Generated 9/5/2023 at HPRCC using provisional data.

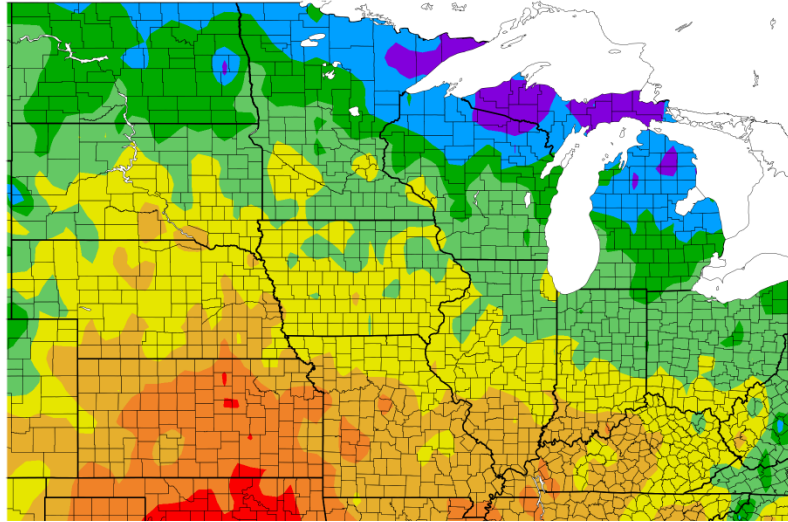
NOAA Regional Climate Centers

Generated 9/5/2023 at HPRCC using provisional data.

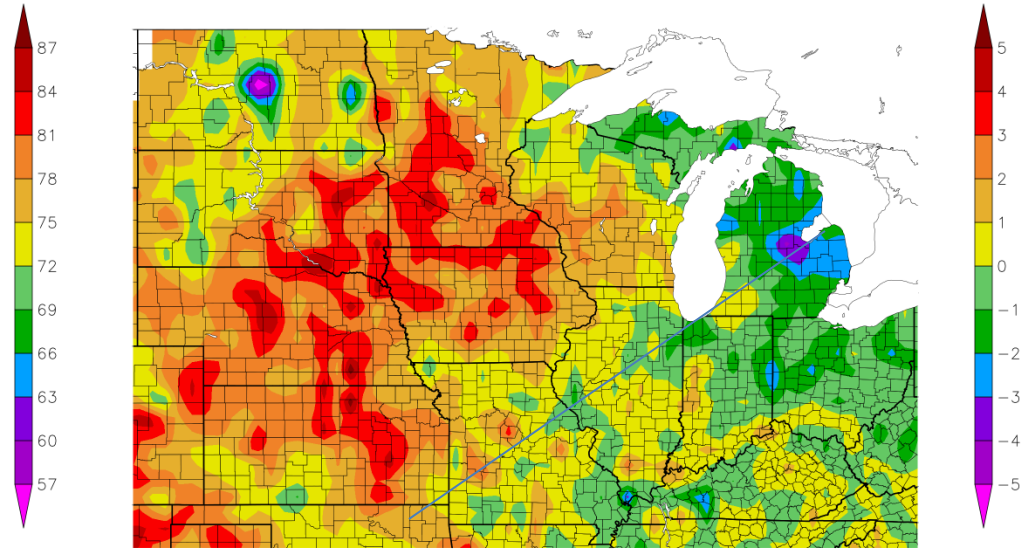
NOAA Regional Climate Centers

- Still widespread dryness – especially MN, WI, IA, and into the Plains.
- Also parts of IL/IN last 30 days

Temperature (F)  
8/6/2023 – 9/4/2023



Departure from Normal Temperature (F)  
8/6/2023 – 9/4/2023



Generated 9/5/2023 at HPRCC using provisional data.

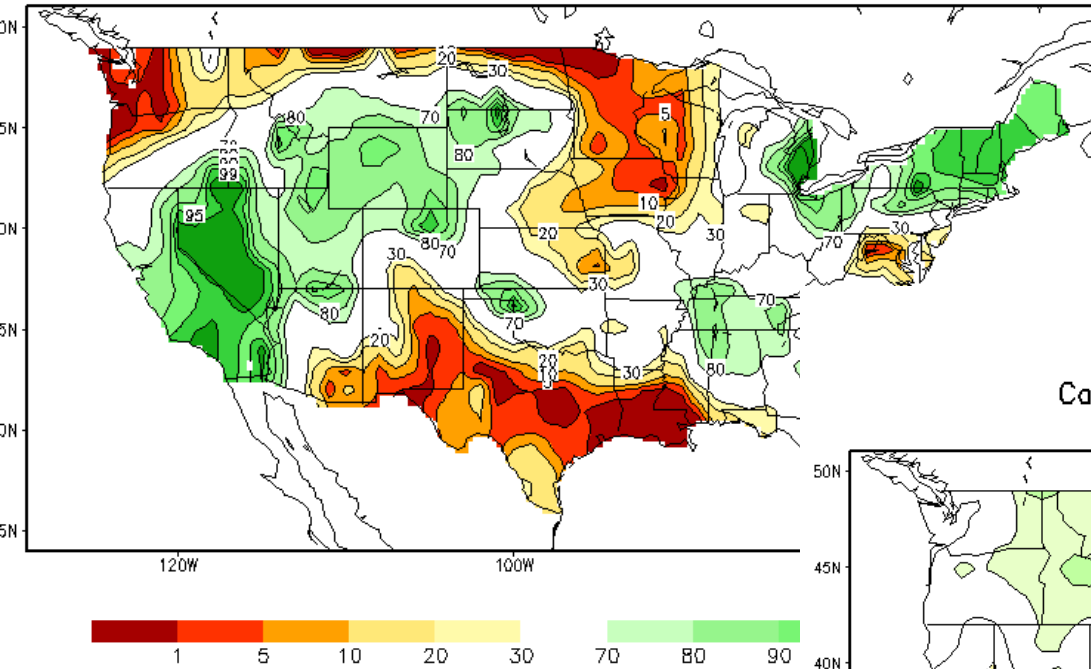
NOAA Regional Climate Centers Generated 9/5/2023 at HPRCC using provisional data.

NOAA Regional Climate Centers

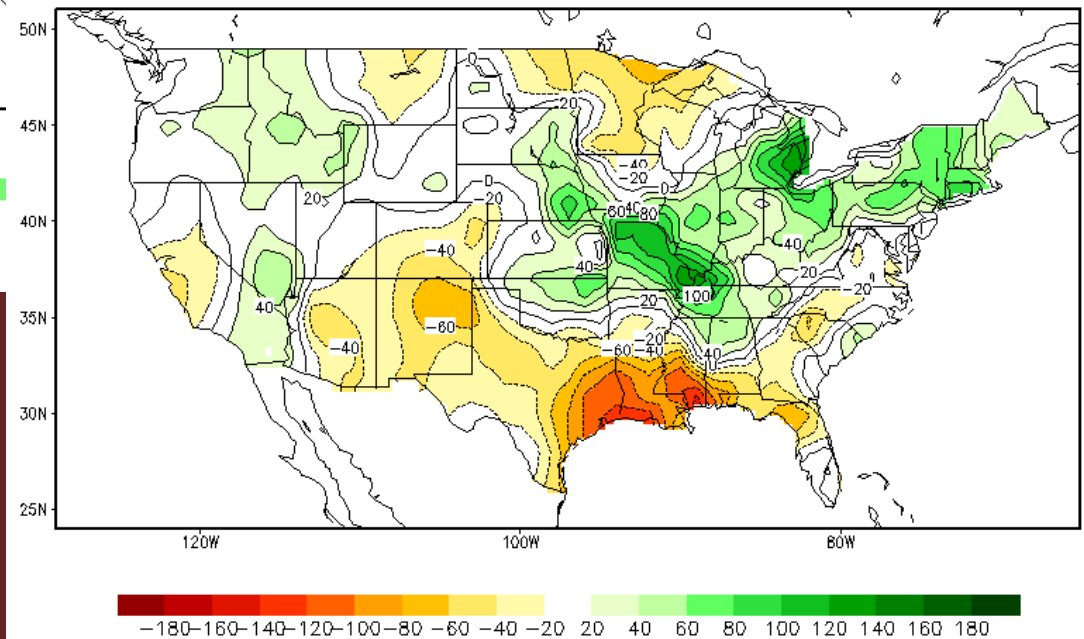
- Warmest area southwest
- Most of the region well above average (3-5 F).
- Parts of the eastern Corn Belt slightly below average (1-2F)

# Soil Moisture

Calculated Soil Moisture Ranking Percentile  
SEP 04, 2023



Calculated Soil Moisture Anomaly Change  
SEP 04, 2023 from JUN.30



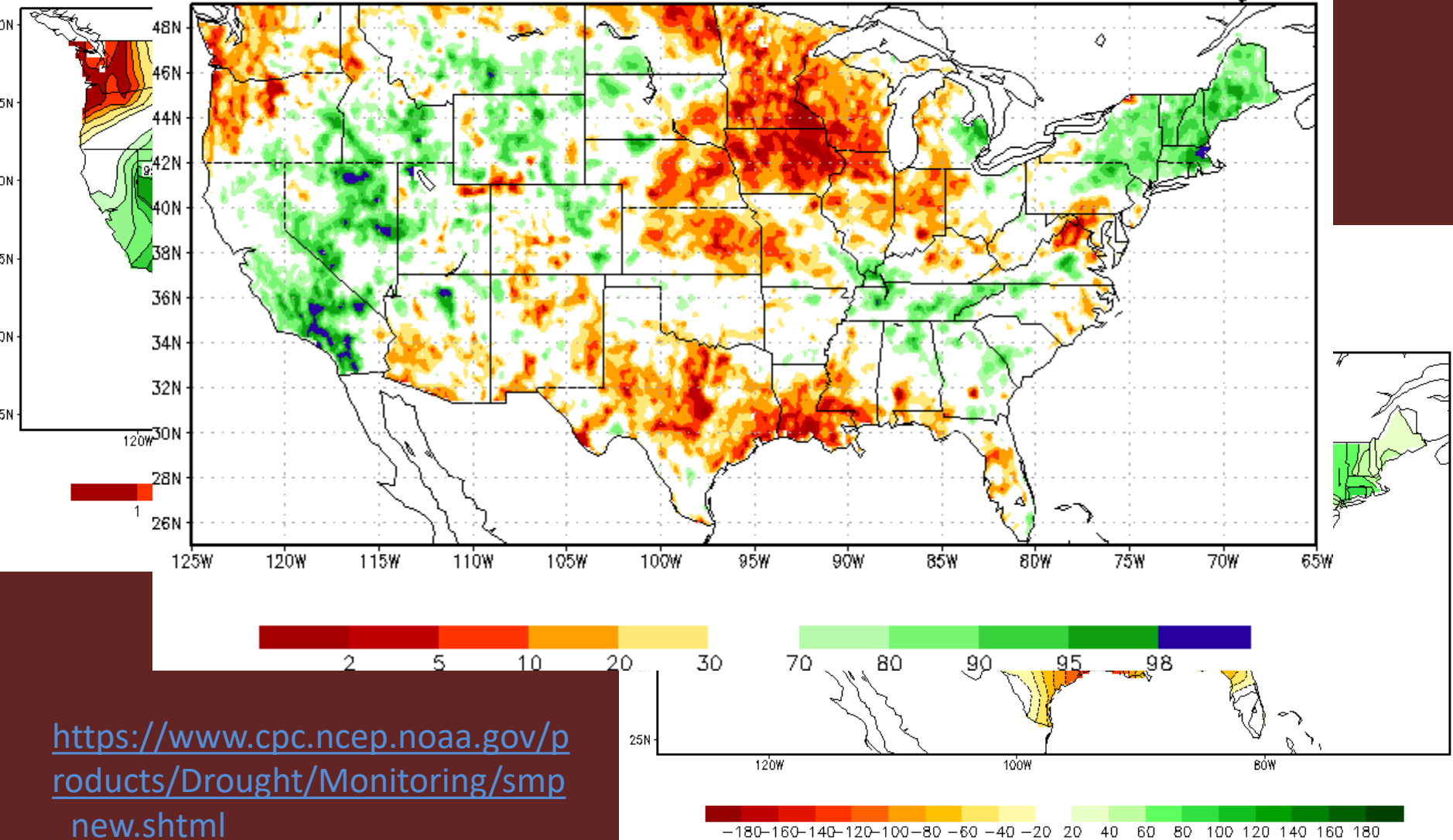
# Soil Moisture

Calculated Soil Moisture Ranking Percentile

Ensemble-Mean

Current SMP

31 Aug 2023



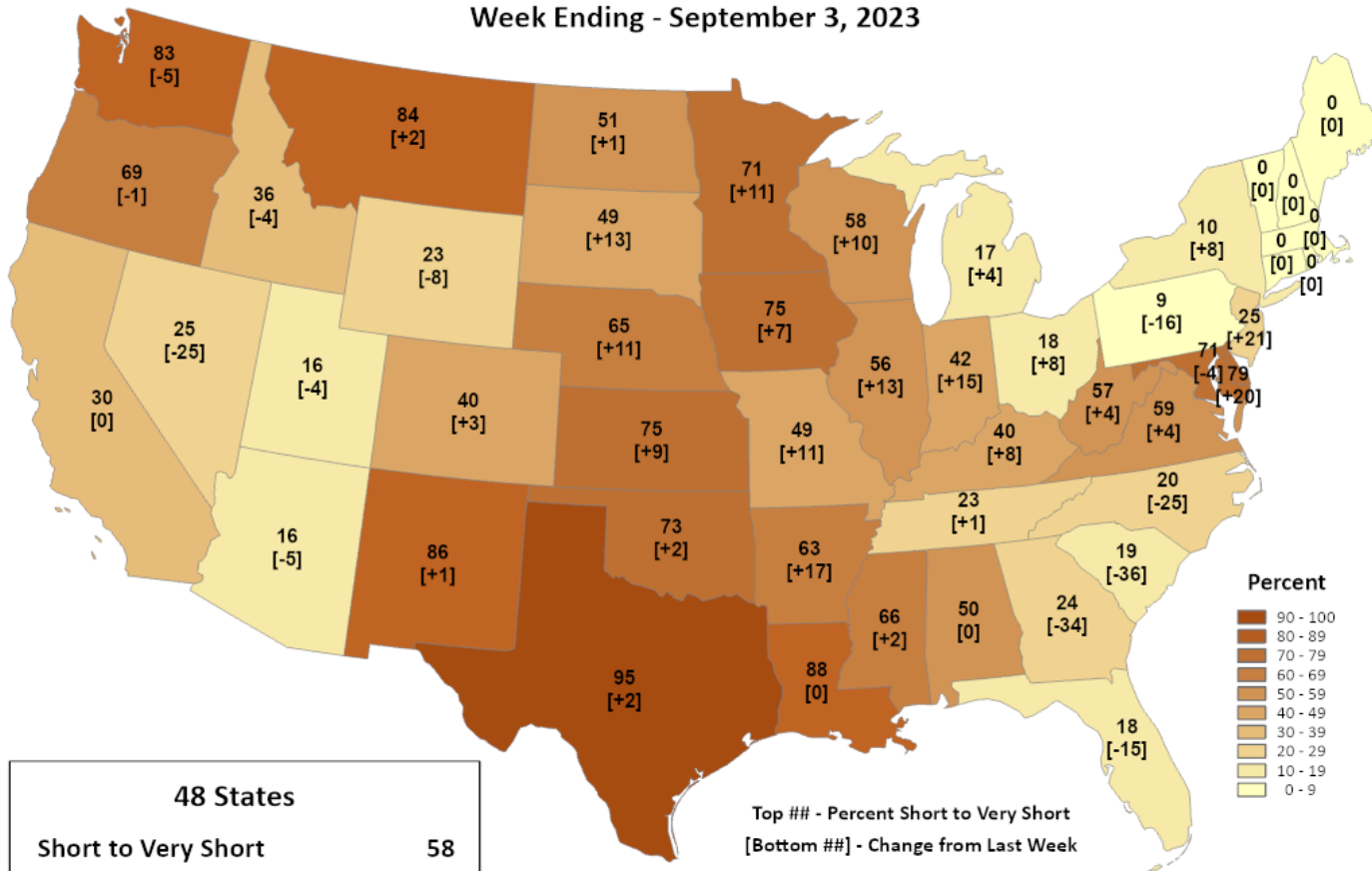
[https://www.cpc.ncep.noaa.gov/products/Drought/Monitoring/smp\\_new.shtml](https://www.cpc.ncep.noaa.gov/products/Drought/Monitoring/smp_new.shtml)

# 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 3, 2023



<b>48 States</b>	
Short to Very Short	<b>58</b>
Change from Last Week	<b>+6</b>

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

- Conditions worsening across almost entire region.
- Still have a significant amount of S-VS soil moisture.
- Central states remain the worst.

# Corn Conditions (NASS)

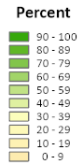
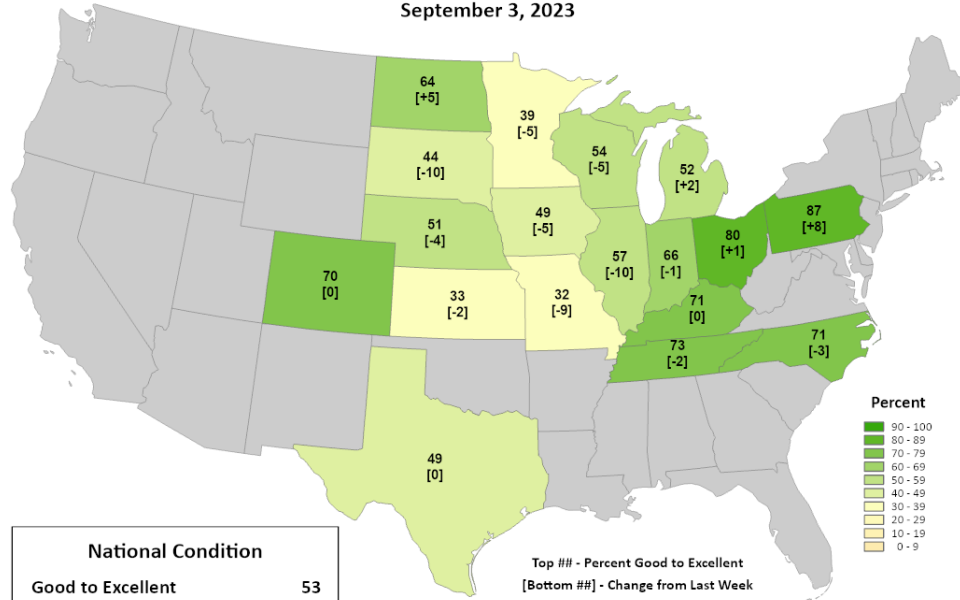


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USDA Office of the Chief Economist (OCE)  
World Agricultural Outlook Board (WAOB)

## Corn Conditions

### Percent Good to Excellent

September 3, 2023



National Condition	
Good to Excellent	53
Change from Last Week	-3

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

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

- Worsening corn conditions in the western portion of the region. Some slight improvement in the eastern states.

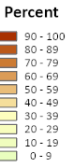
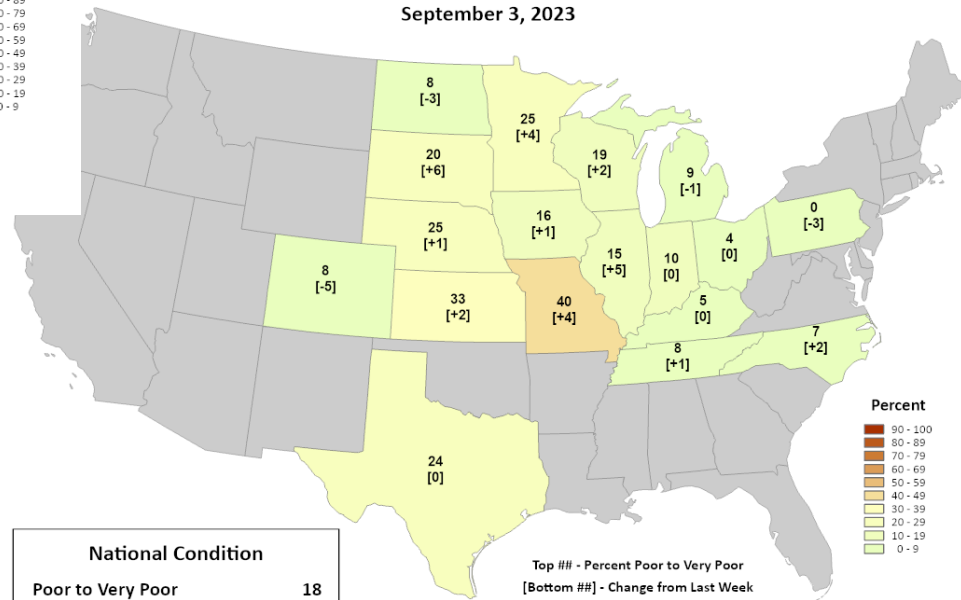


prepared by the  
Chief Economist (OCE)  
Outlook Board (WAOB)

## Corn Conditions

### Percent Poor to Very Poor

September 3, 2023



National Condition	
Poor to Very Poor	18
Change from Last Week	+1

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

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

# Corn Conditions (NASS)

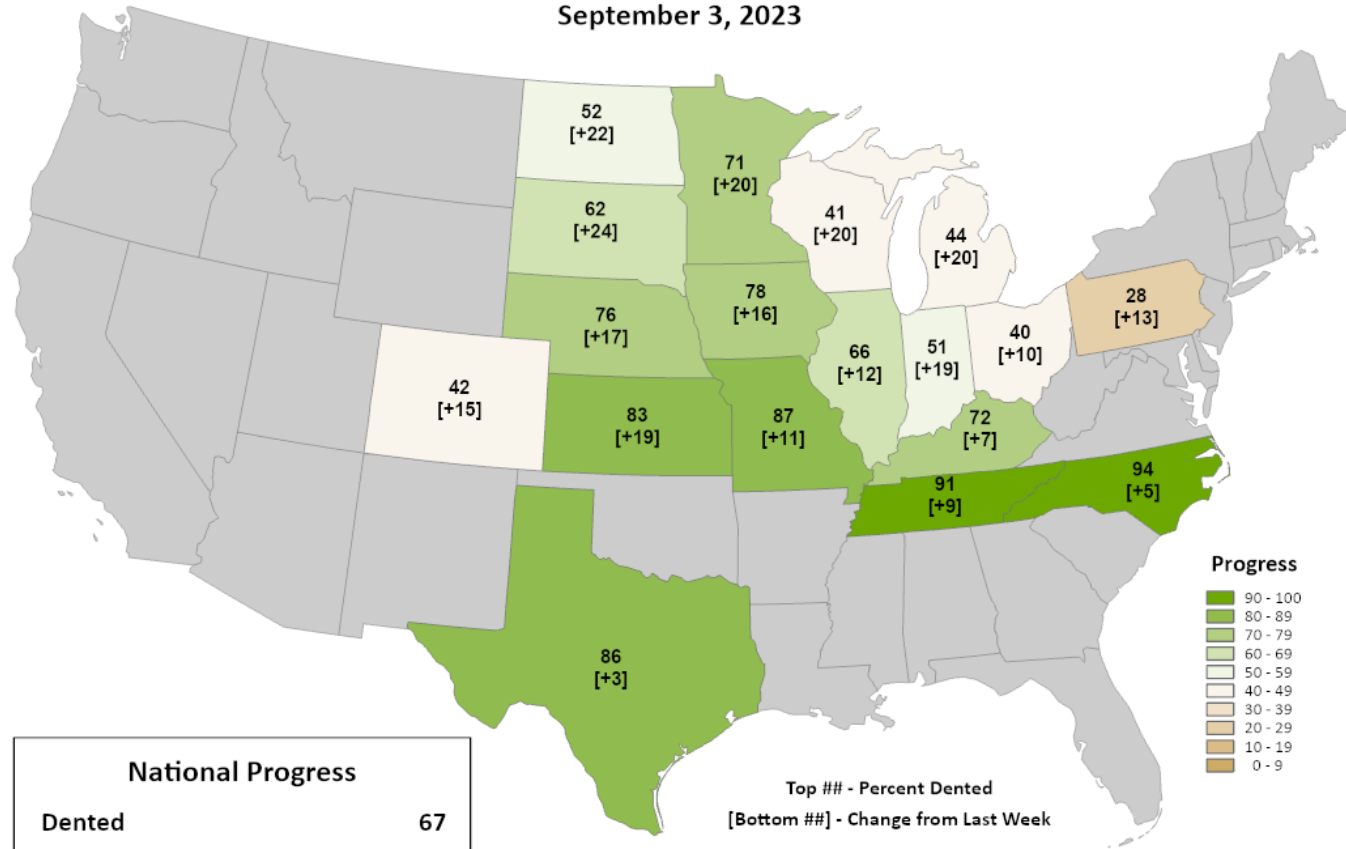


This product was prepared by the  
USDA Office of the Chief Economist (OCE)  
World Agricultural Outlook Board (WAOB)

## Corn Progress

### Percent Dented

September 3, 2023



National Progress	
Dented	67
Change from Last Week	+16

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



# Soybean Conditions (NASS)

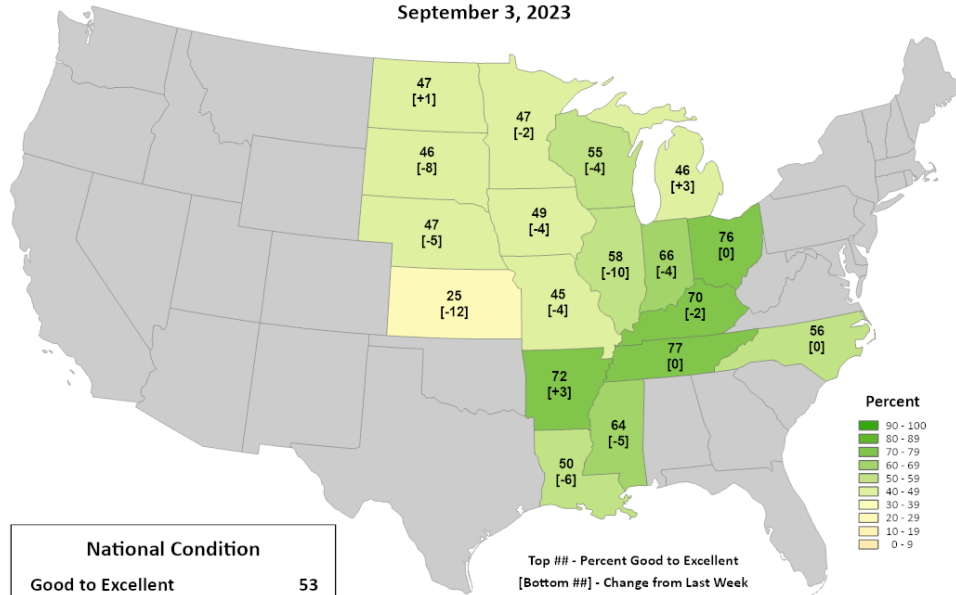


This product was prepared by the  
USDA Office of the Chief Economist (OCE)  
World Agricultural Outlook Board (WAOB)

## Soybean Conditions

### Percent Good to Excellent

September 3, 2023



#### National Condition

Good to Excellent 53

Change from Last Week -5

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.
  - Worst to the west, but slightly better to the east.

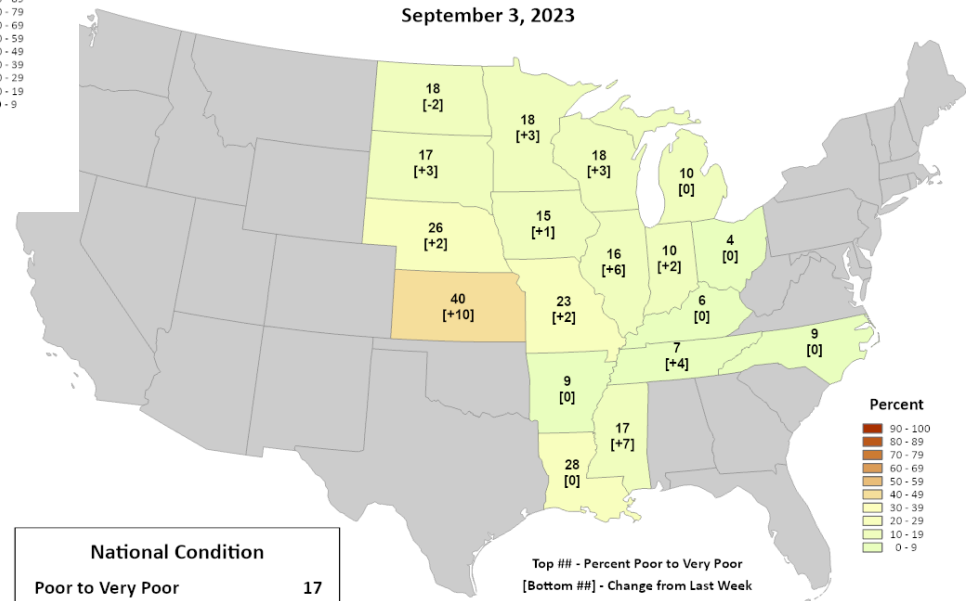


prepared by the  
Chief Economist (OCE)  
World Agricultural Outlook Board (WAOB)

## Soybean Conditions

### Percent Poor to Very Poor

September 3, 2023



#### National Condition

Poor to Very Poor 17

Change from Last Week +3

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)

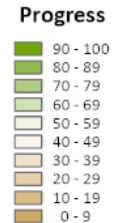
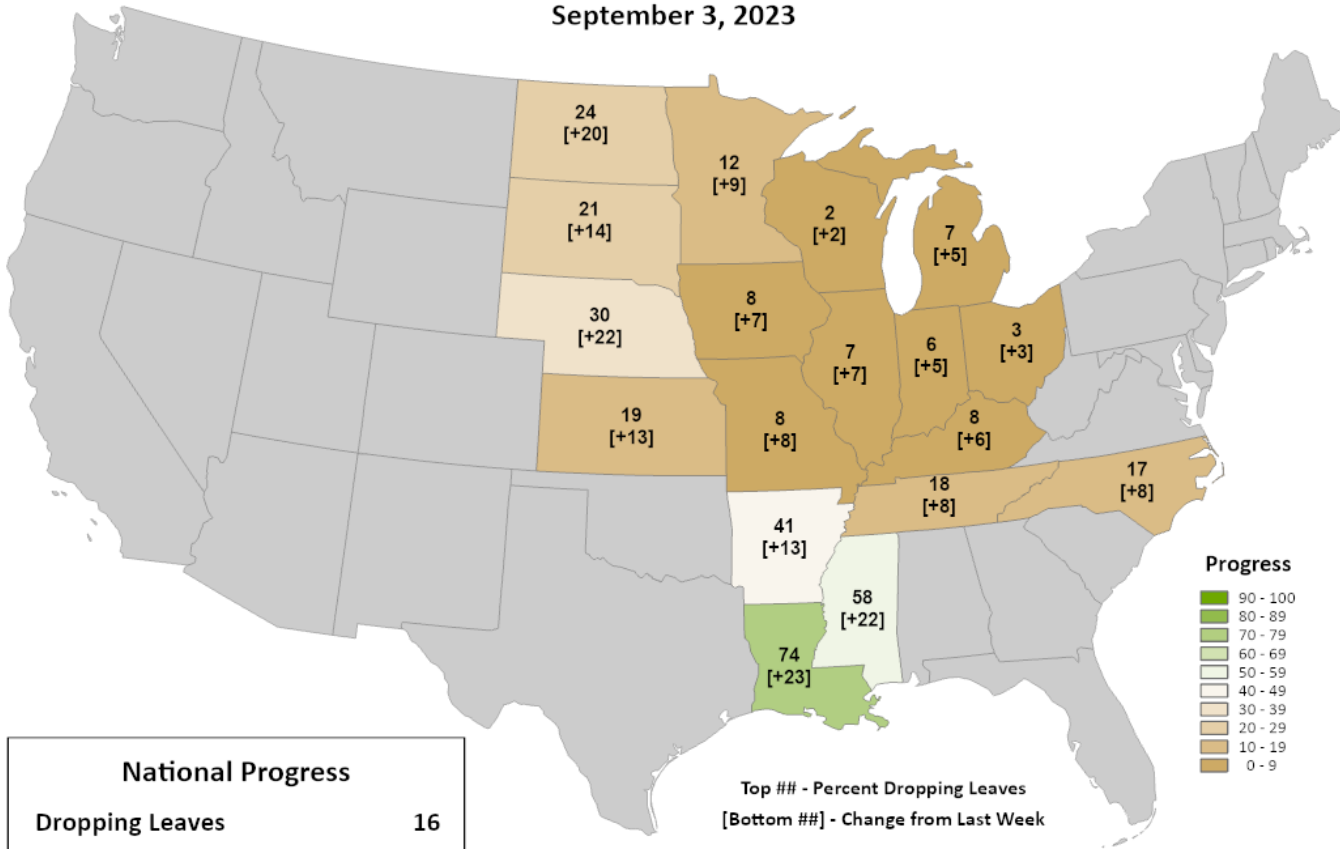


United States  
Department of  
Agriculture

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

## Soybeans Progress Percent Dropping Leaves

September 3, 2023



National Progress	
Dropping Leaves	16
Change from Last Week	+11

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

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



# Pasture/Range Conditions (NASS)

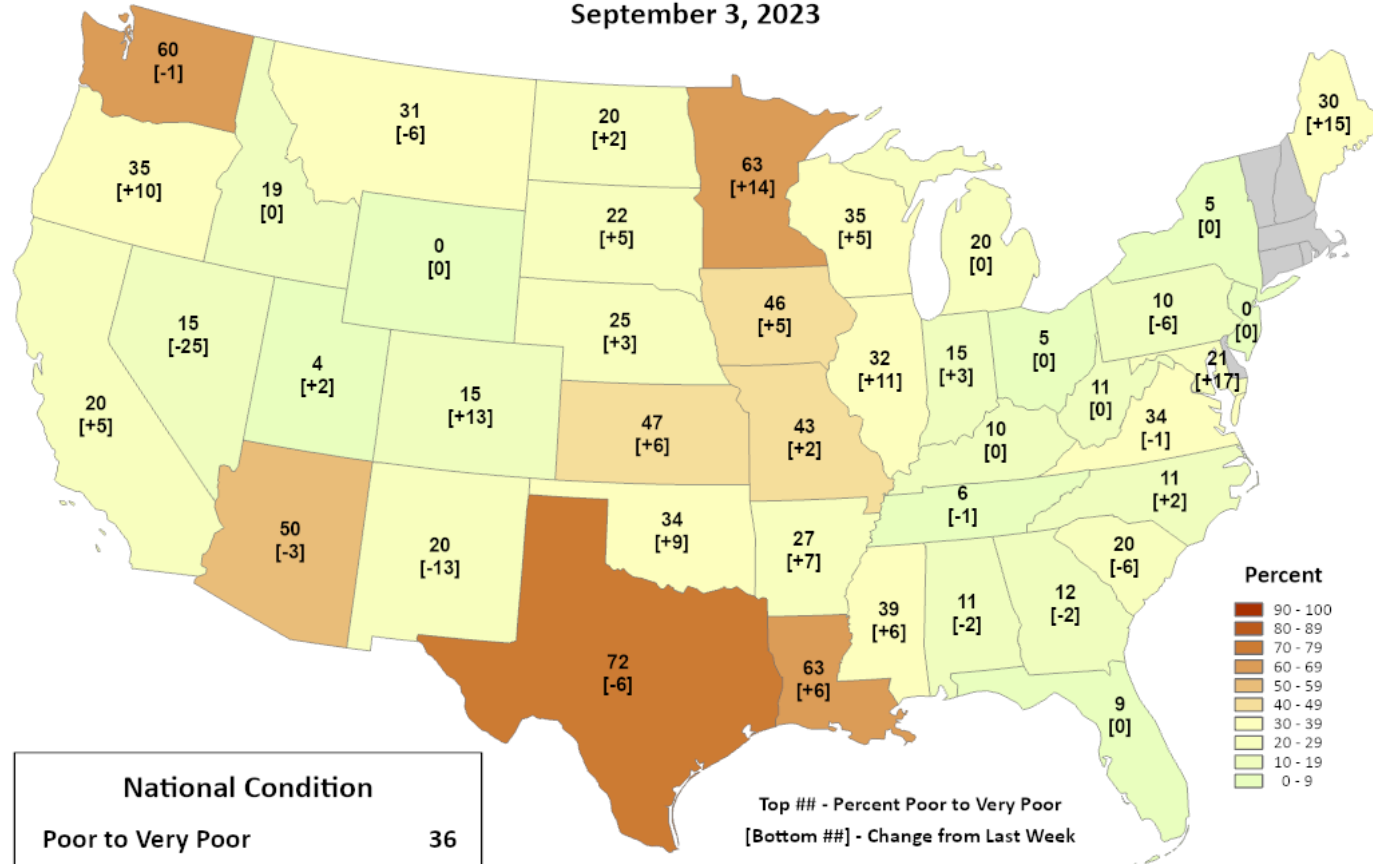


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World Agricultural Outlook Board (WAOB)

## Pasture and Range Conditions

### Percent Poor to Very Poor

September 3, 2023

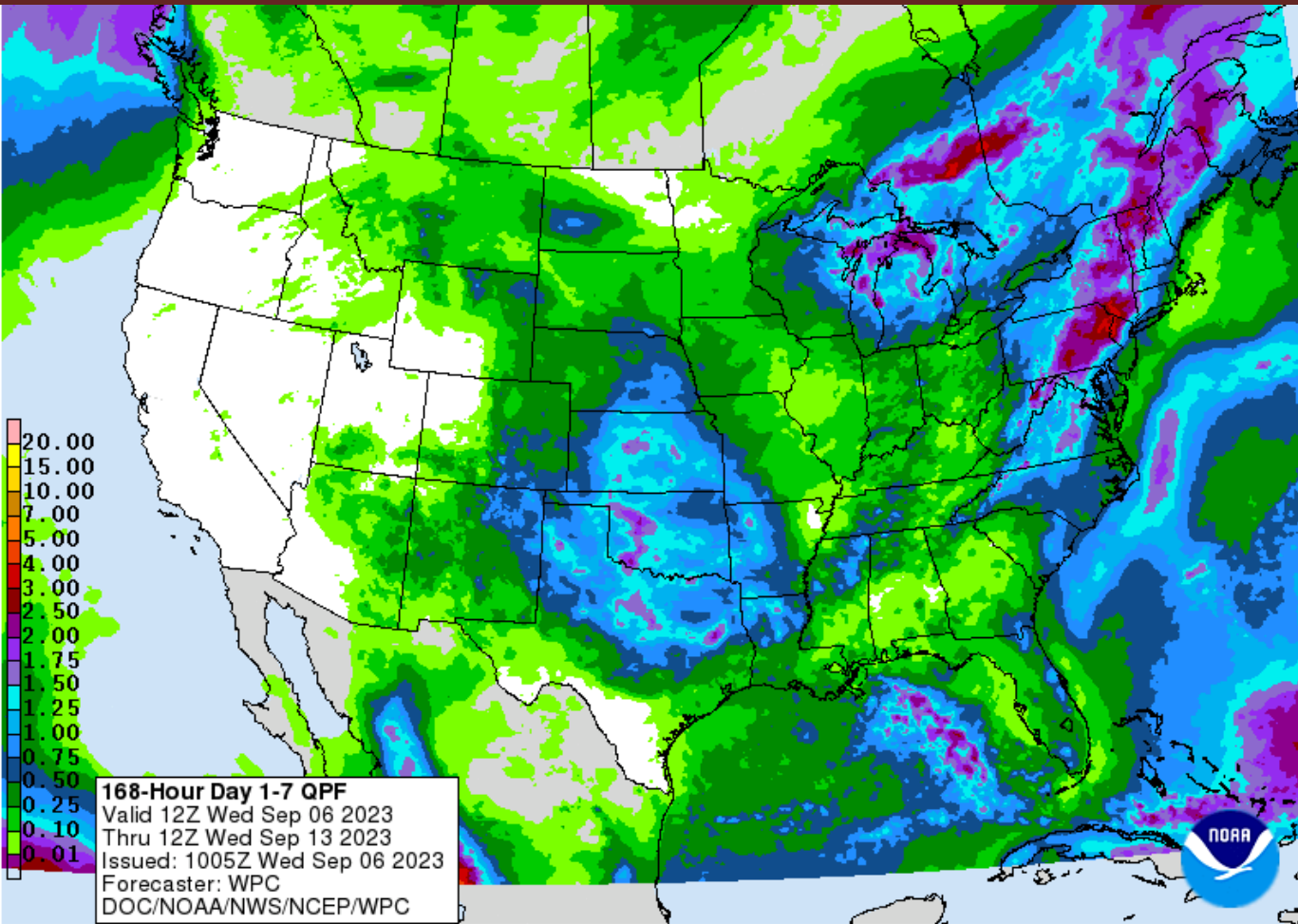


Data obtained from USDA National Agricultural Statistics Service weekly Crop Progress reports.

# Assorted AG Issues

- Continued very dry soils through much of central states in region. Very much in need of recharge.
- Heat has stressed crops at end of season causing premature senescence.
- Heat/humidity problems with livestock.
- Fall seeding (cash/cover crops) could be an issue.
- Mississippi River problems again.
- Monitor fire potential.

# 1-7 Day Precip



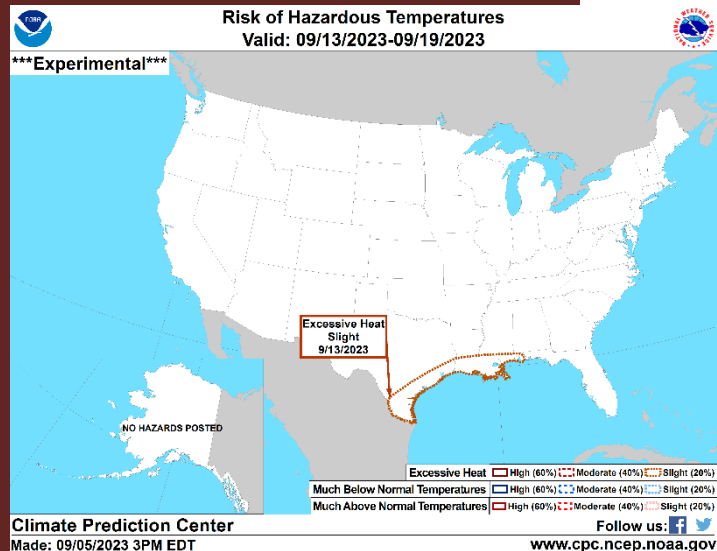
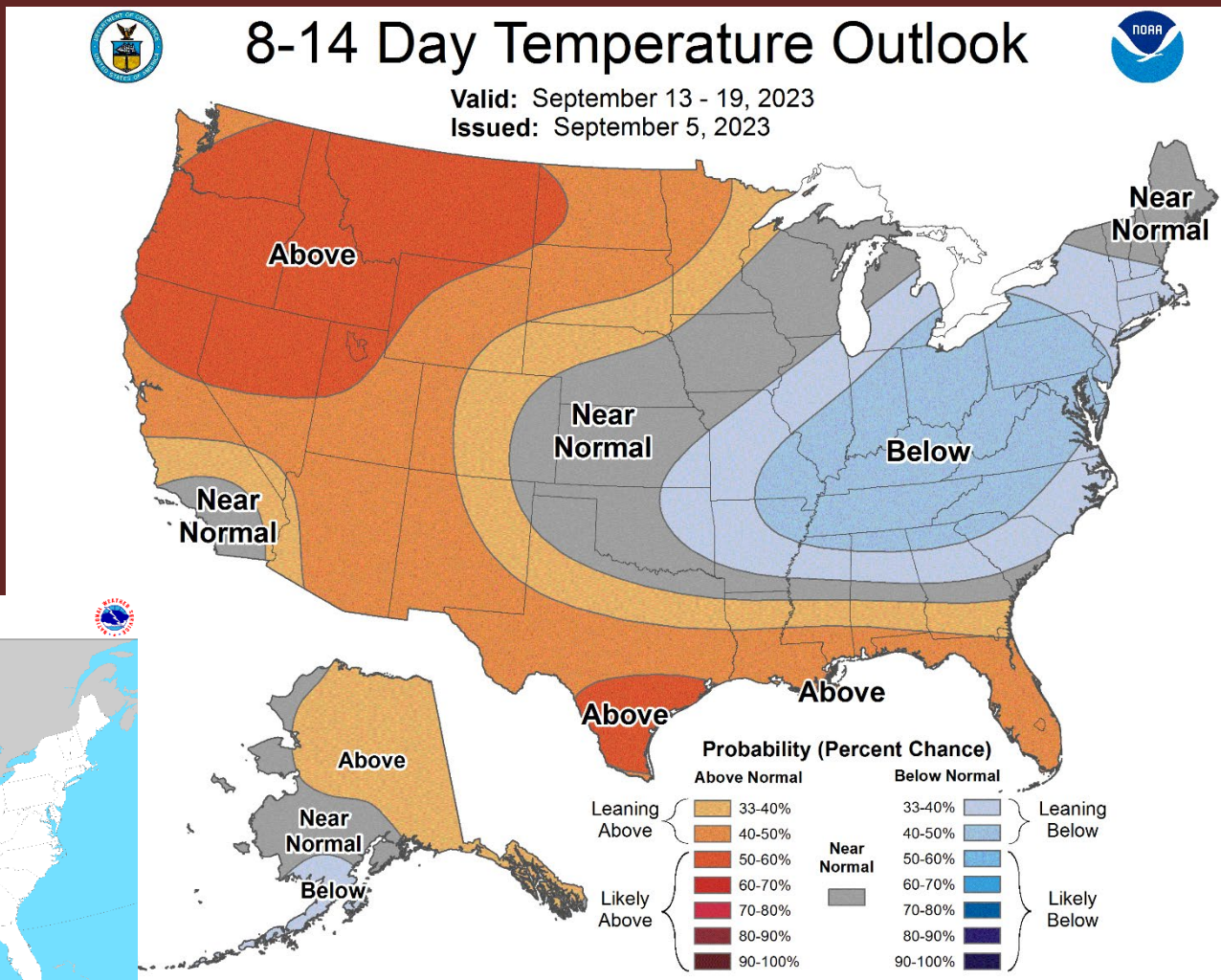
## Next 7 days

- Heat easing
- Precip chances start to return in places
- Plains and Great Lakes best chance 7 day.

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

# Temperature Outlook

- Likely warmer than normal throughout the upper Plains and into Minnesota.
- Near normal across the central Midwest.
- Slightly cooler than average through Missouri and into the eastern Corn Belt.



# Precipitation Outlook

- Slight chance wetter in the southern Plains (small risk heavier rains)
- Leaning below average precipitation across the eastern half of the region.

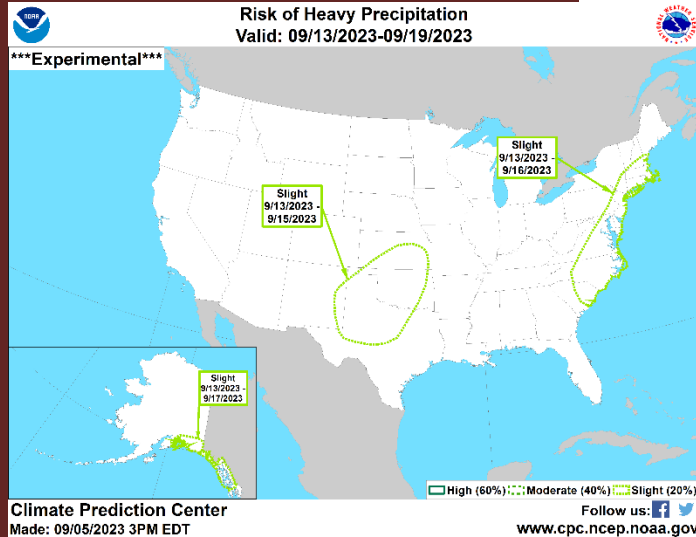
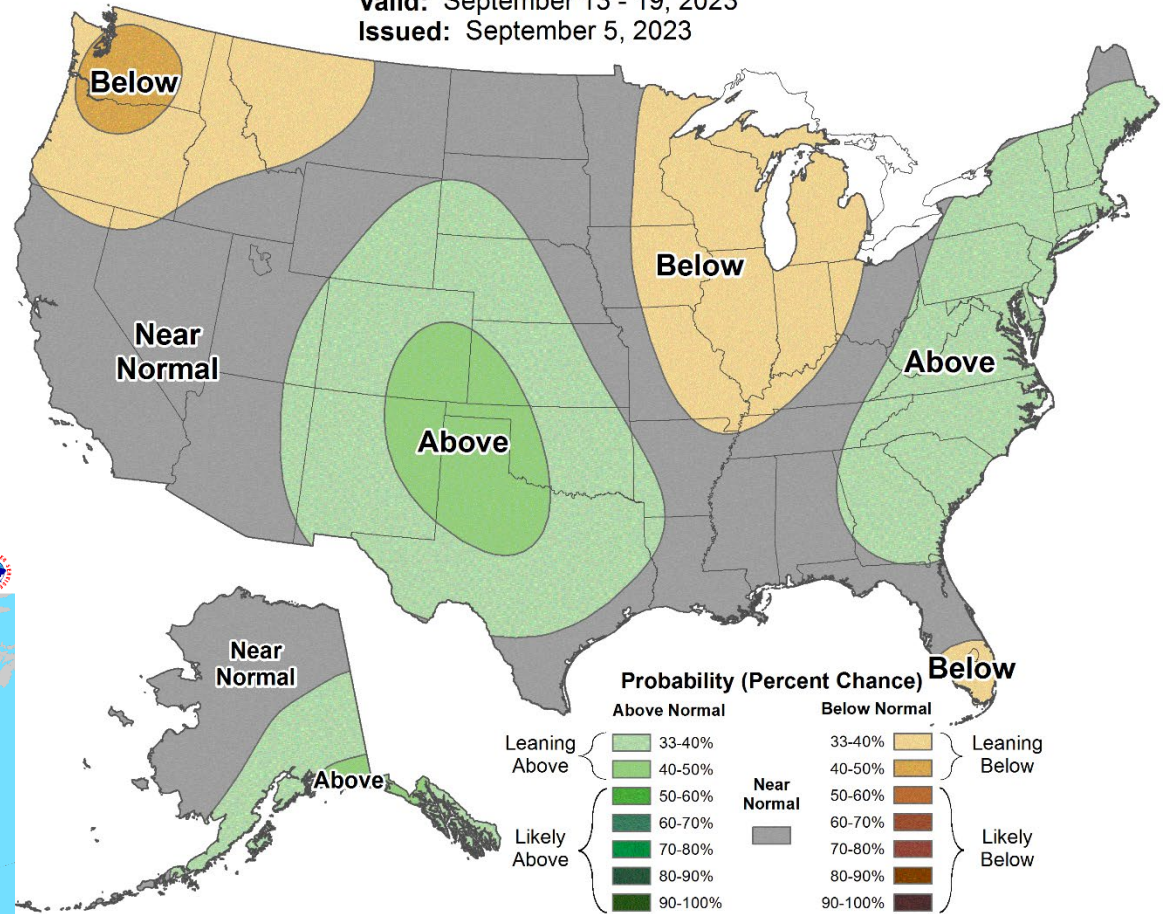


## 8-14 Day Precipitation Outlook



Valid: September 13 - 19, 2023

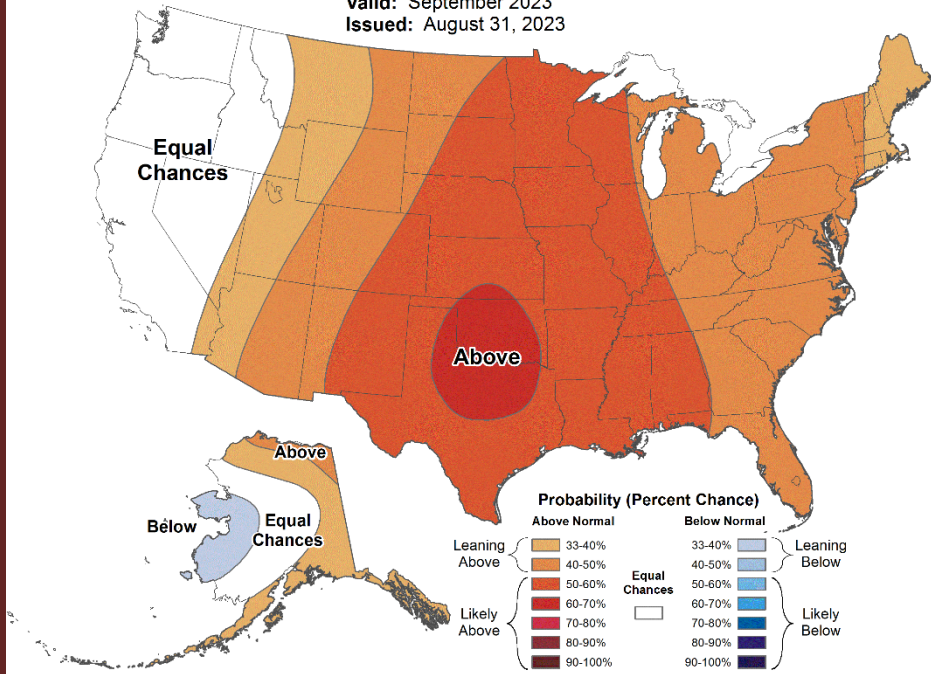
Issued: September 5, 2023



# 1-Month Outlook

## Monthly Temperature Outlook

Valid: September 2023  
Issued: August 31, 2023

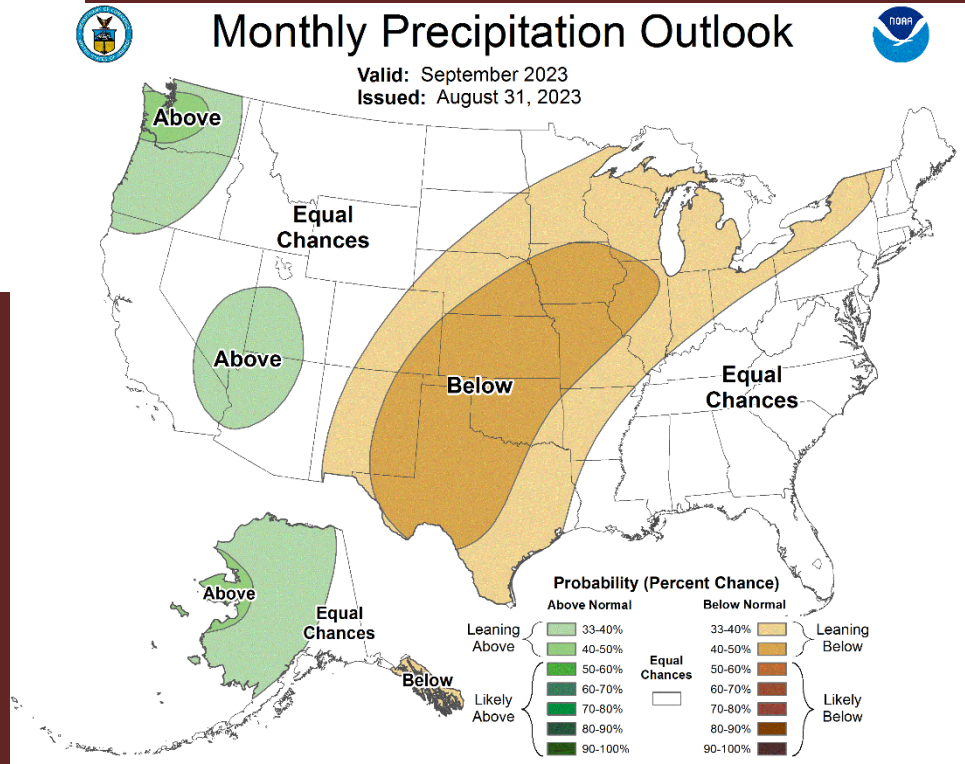


## September Monthly Outlook

- Likely warmer across the entire region.
- Chance drier across most of the region.
- Probably dominated by early month.

## Monthly Precipitation Outlook

Valid: September 2023  
Issued: August 31, 2023

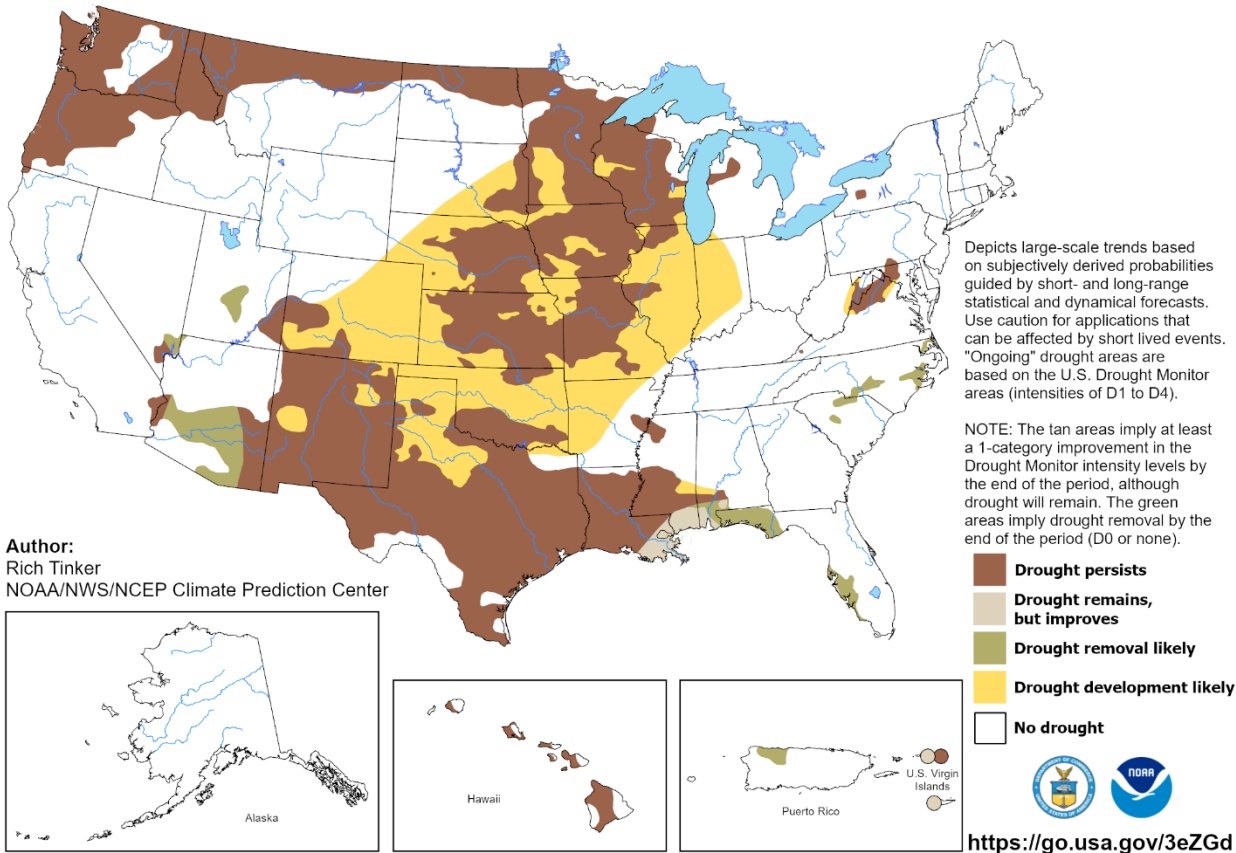




# Drought in the Midwest/Plains

## **U.S. Monthly Drought Outlook** Drought Tendency During the Valid Period

Valid for September 2023  
Released August 31, 2023



- September 2023 drought outlook – some worsening conditions likely across most of the region.
- Drought persistence predicted from southern Kansas up to the Great Lakes.

# Summary

- Officially in an El Niño Advisory – winter impacts more likely.
- Drought continues – variability across the region. Possible worsening.
- Crop conditions worsening.
- Fall seeding could be problematic.
- Harvest starting soon.
- Monitor fire issues.

# Next MAC-T Monthly Call

Next Call

**September 21, 2023, 9-10am CT**

*Followed by Oct 4<sup>th</sup> as previously  
scheduled*