

# Wisconsin Ag Climate Outlook

*Week of August 12, 2024*

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# Key Points

Navigate to select slides by clicking on the [links](#) below.

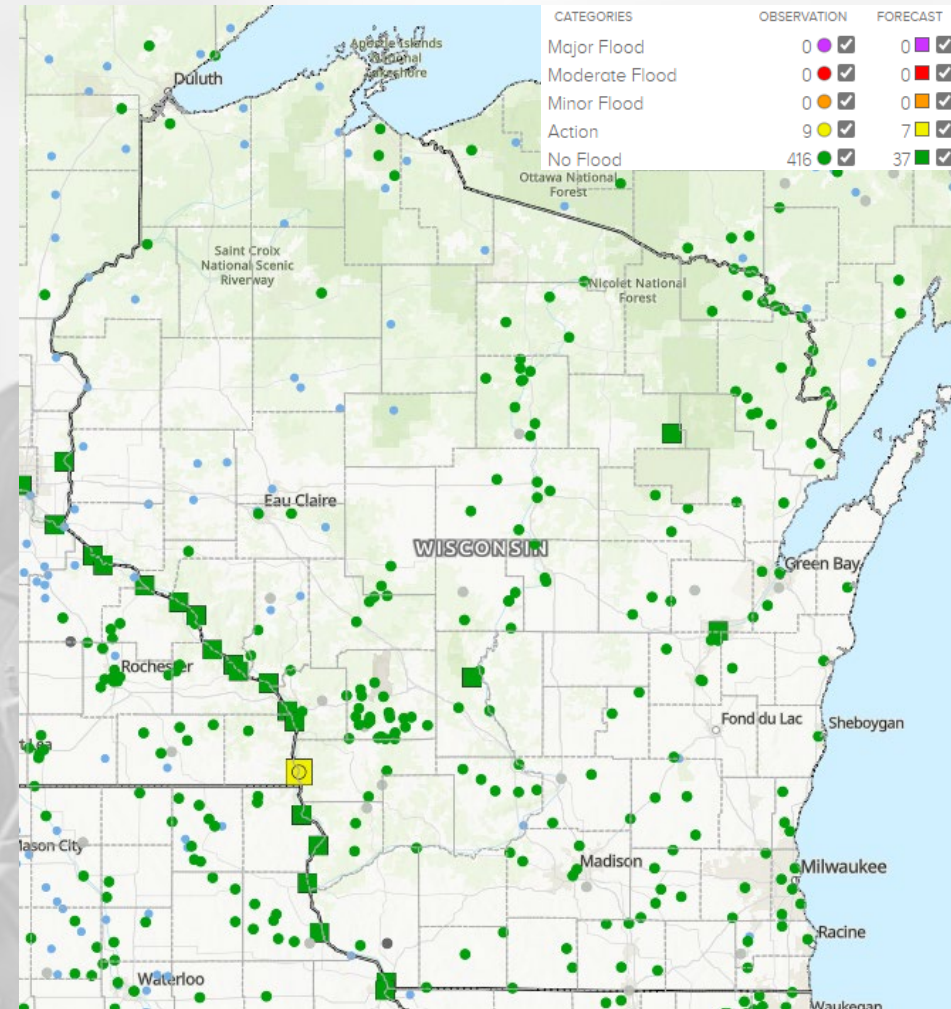
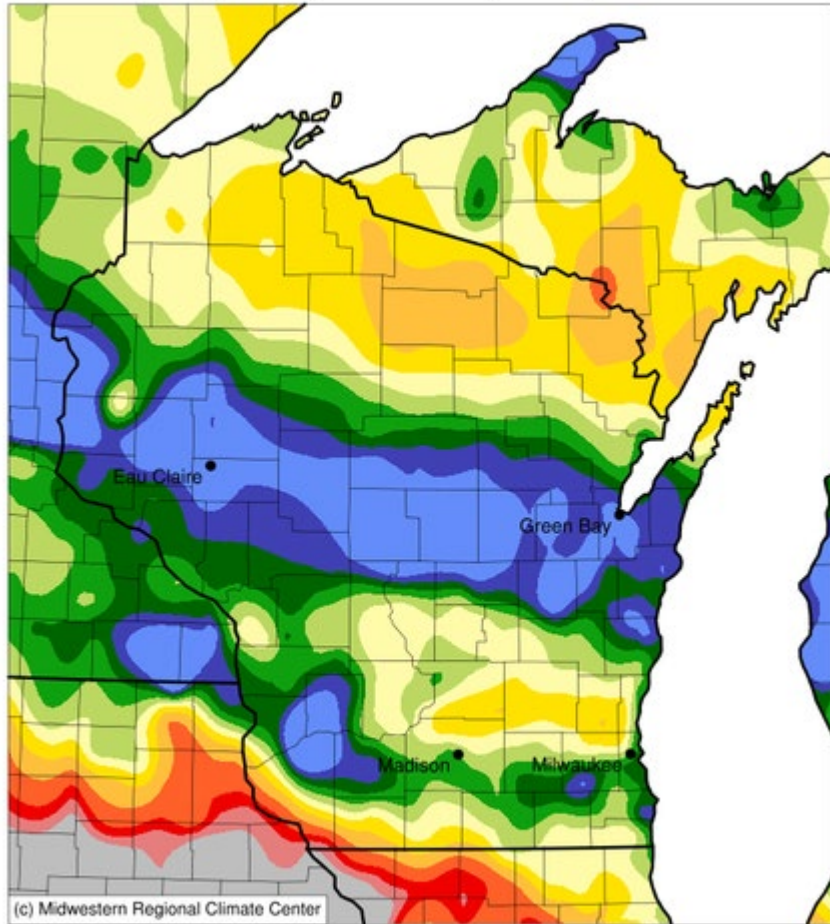
- 1) Early August has been [cooler-than-normal](#) for most of WI, especially in the W/S.
- 2) Soil moisture levels remain at [good to adequate](#) levels for most, even after a [wet week](#) for some. Corn and soybeans in [good to excellent condition](#) are similar compared to last week.
- 3) This next week looks to be a [bit more active](#) for precip, but still lean towards below average precip for [8-14 days out](#).

- For this week's agronomic recommendations from UW Extension, click [here](#).
- For the latest GDD accumulation maps, click [here](#).
- For NASS crop progress & condition maps, click [here](#).

# Moderately Wet Week

## Accumulated Precipitation (in): Percent of 1991-2020 Normals

August 05, 2024 to August 11, 2024



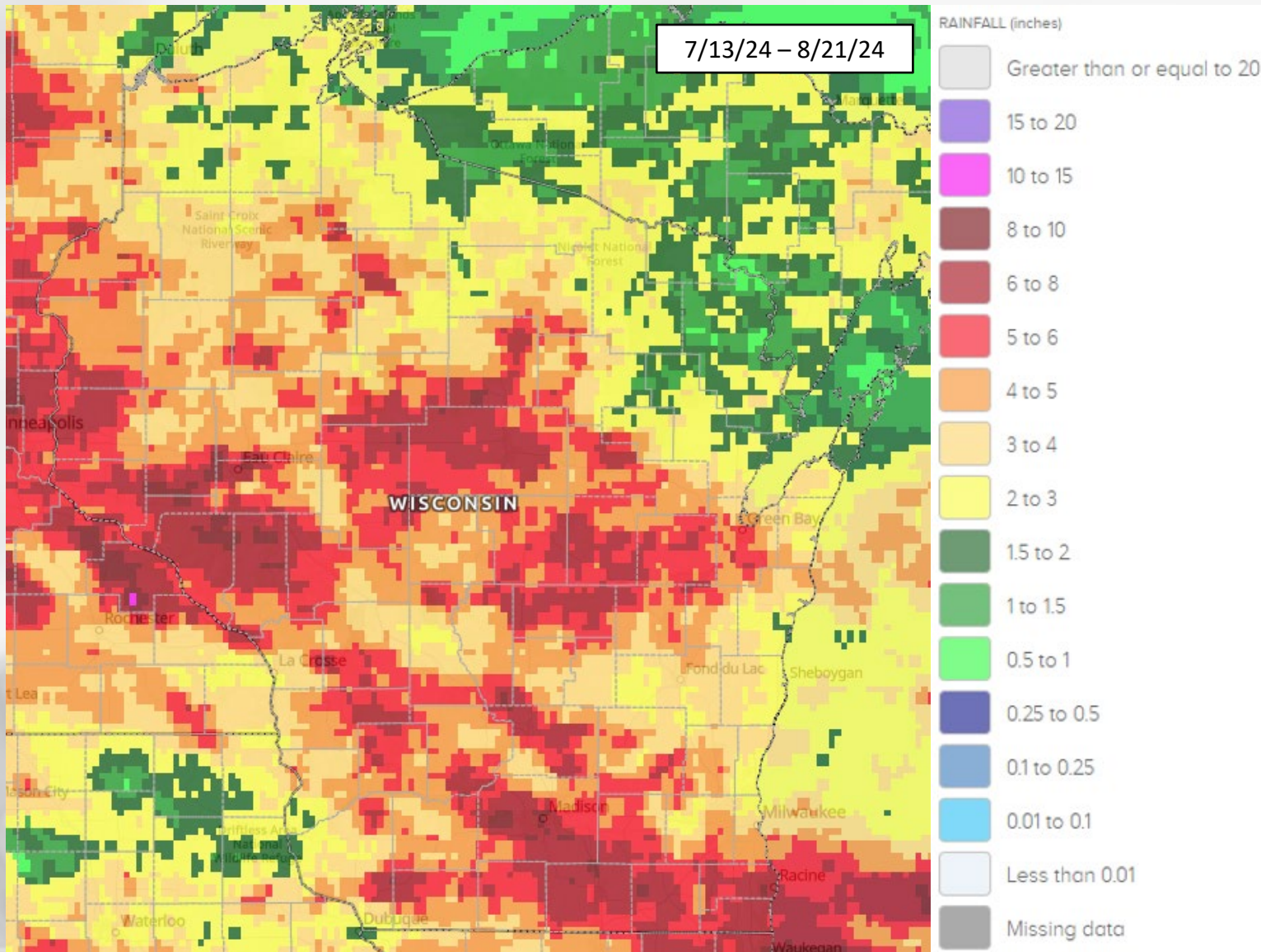
- Wet week for the central portion of the state with stations reporting **>150%** of the normal weekly total.
- A dry week for the northern and southern portions of the state with many stations reporting **<75%** of the normal weekly total.
- River levels **remain below flood stage.**

<https://water.noaa.gov/>

<https://mrcc.purdue.edu/CLIMATE>

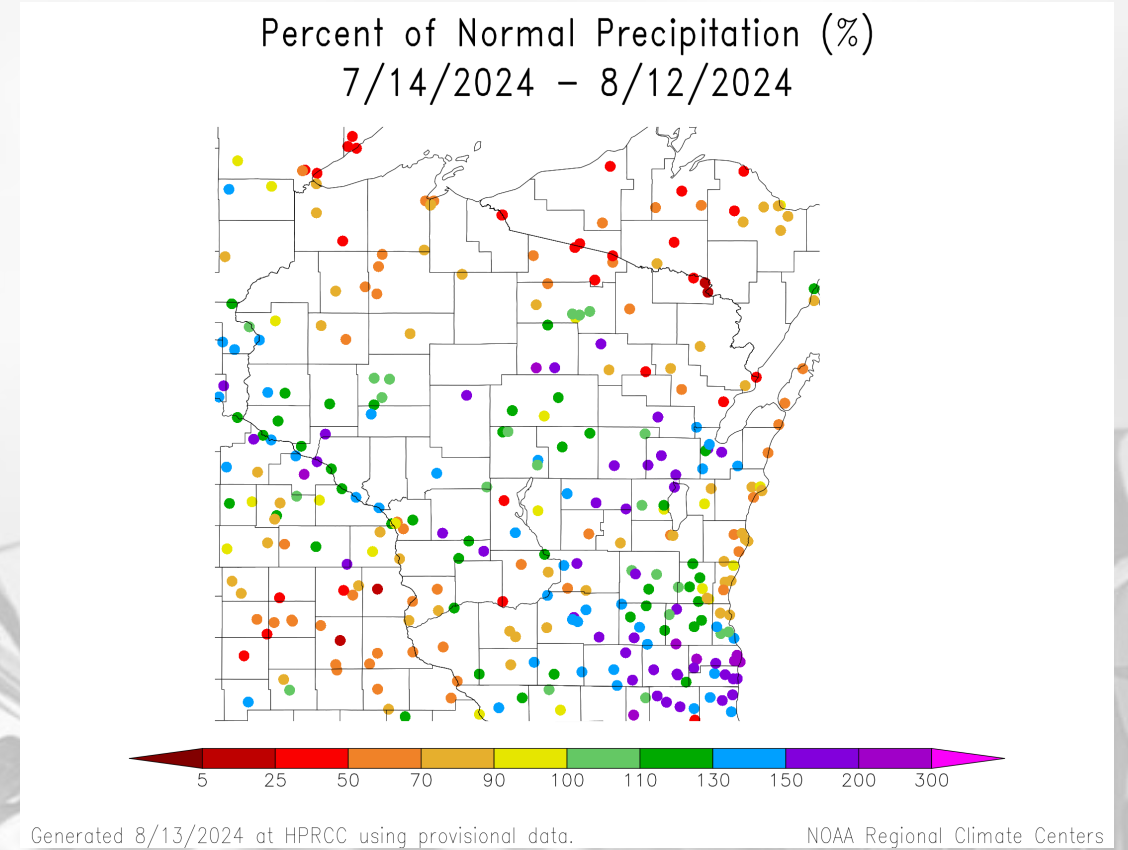
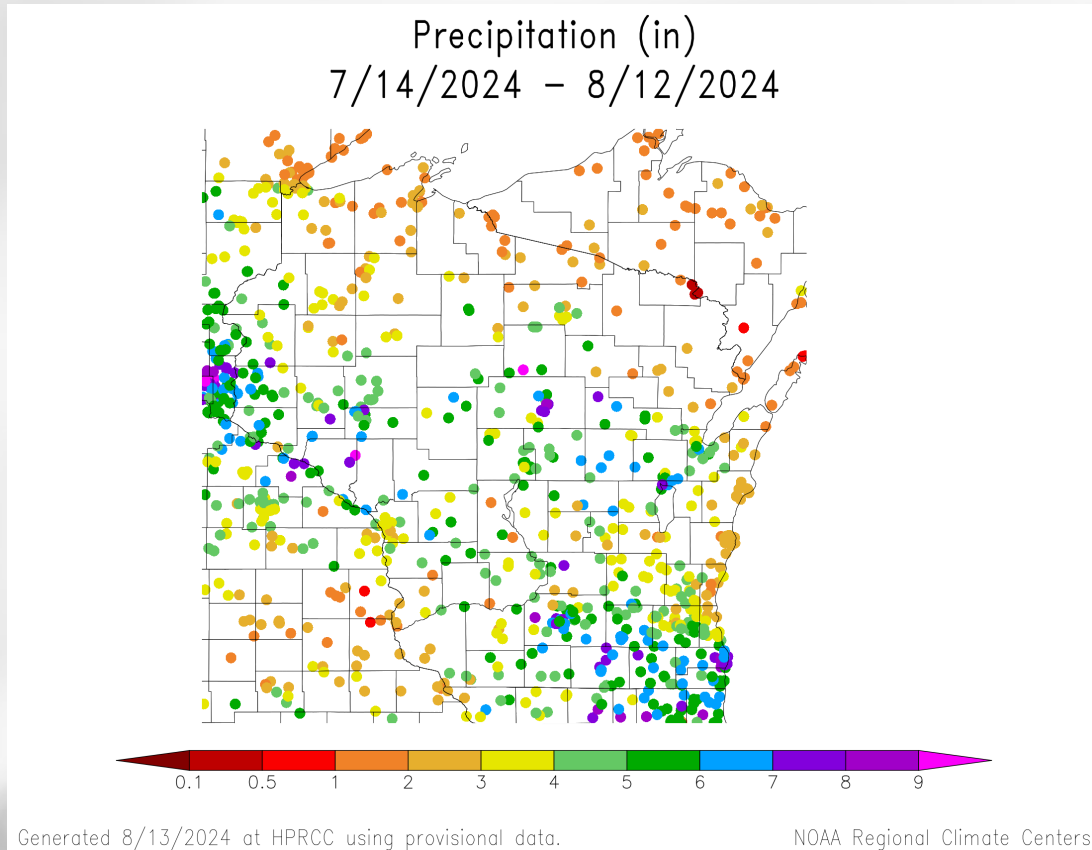


# 30 Day Precip



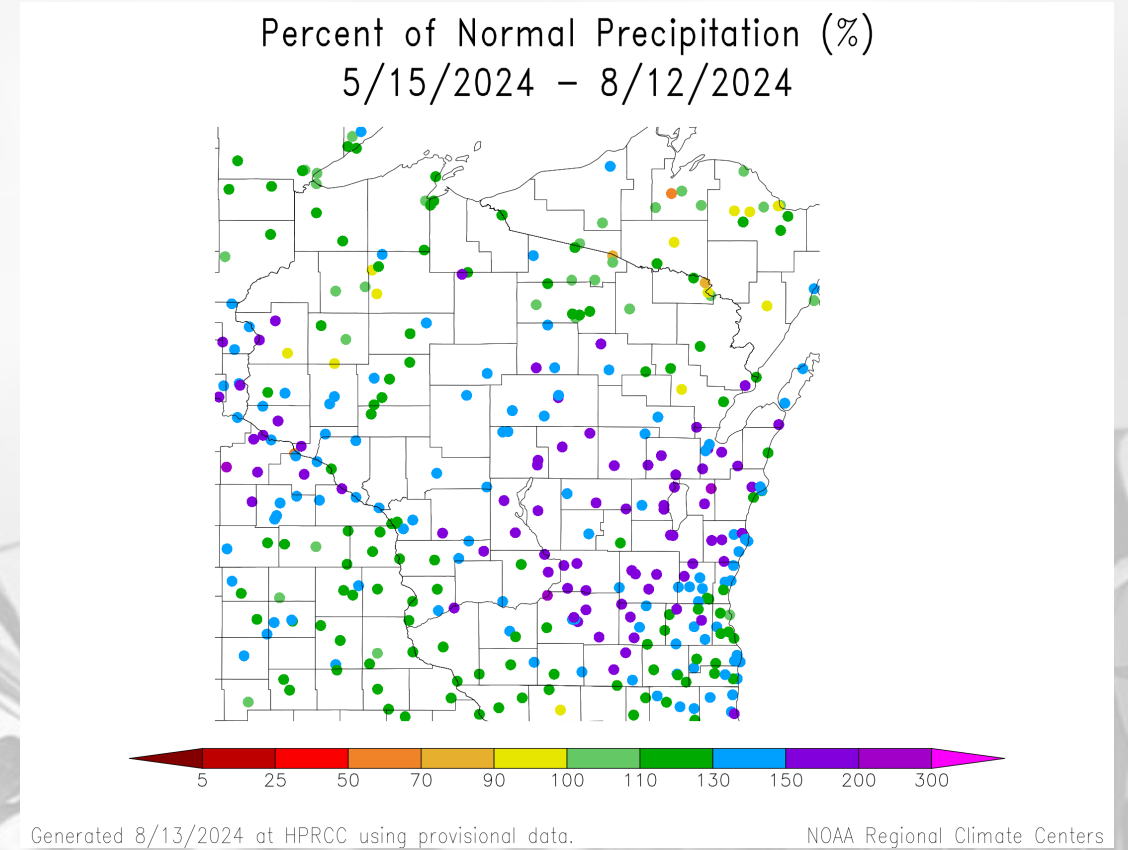
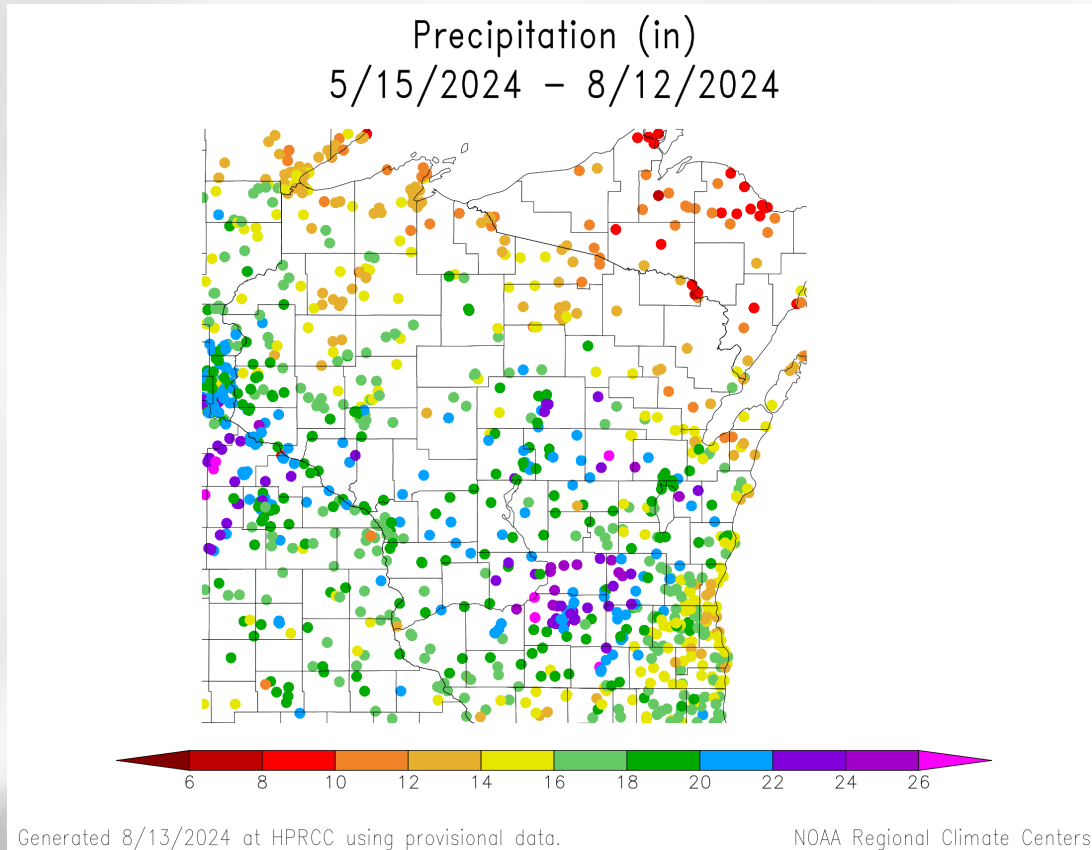
- **6" or more** was common in the WC, C, and SC counties.
- **3" or less** is estimated in portions of the NE, and E counties. Some areas in the far N had **<2"**.
- Driest pockets in parts of Florence and Marinette Counties → estimated **<1"**.

# 30 Day Precip Total/% Avg.



- Highest monthly totals in a triangle from La Crosse to Green Bay to Milwaukee → **5" or more common.**
- **5" or more** for the SE & W counties, which was **130+% of average** (some stations over **200%**).
- Lower totals along the Lake Michigan shore and in the NW → **3" or less (<100% of avg.)**

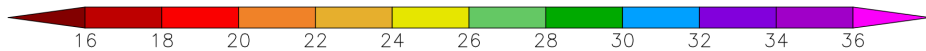
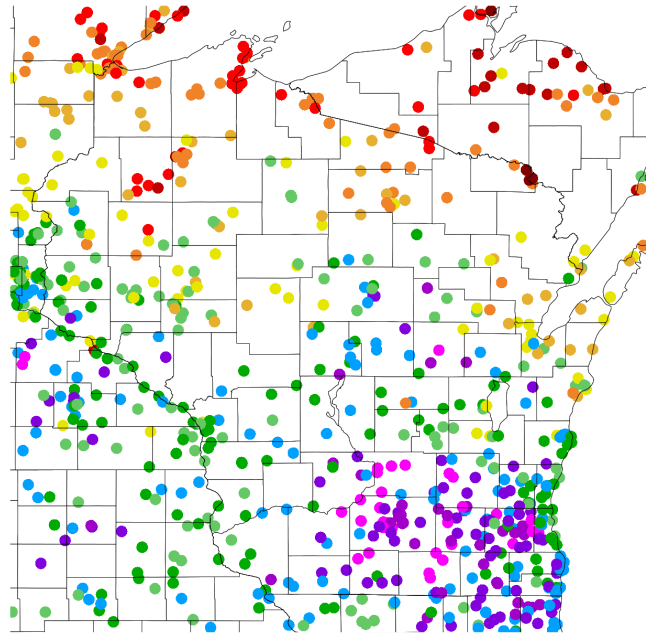
# 90 Day Precip Total/% Avg.



- **Over 2 feet** of precip accumulated between Madison & Portage; **20+”** common in the SC region.
- Lowest totals in the north and along Lake Michigan → **8-12”** (red/orange dots) common.
- Majority of stations are at **110% or more** of normal; **100-130%** near Milwaukee and the NW/NC.

# 2024 Precipitation (so far)

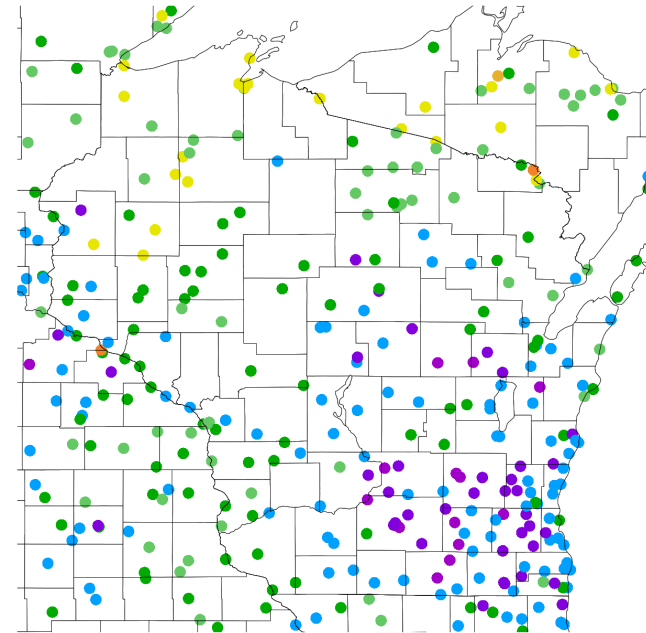
Precipitation (in)  
1/1/2024 – 8/12/2024



Generated 8/13/2024 at HPRCC using provisional data.

NOAA Regional Climate Centers

Departure from Normal Precipitation (in)  
1/1/2024 – 8/12/2024



Generated 8/13/2024 at HPRCC using provisional data.

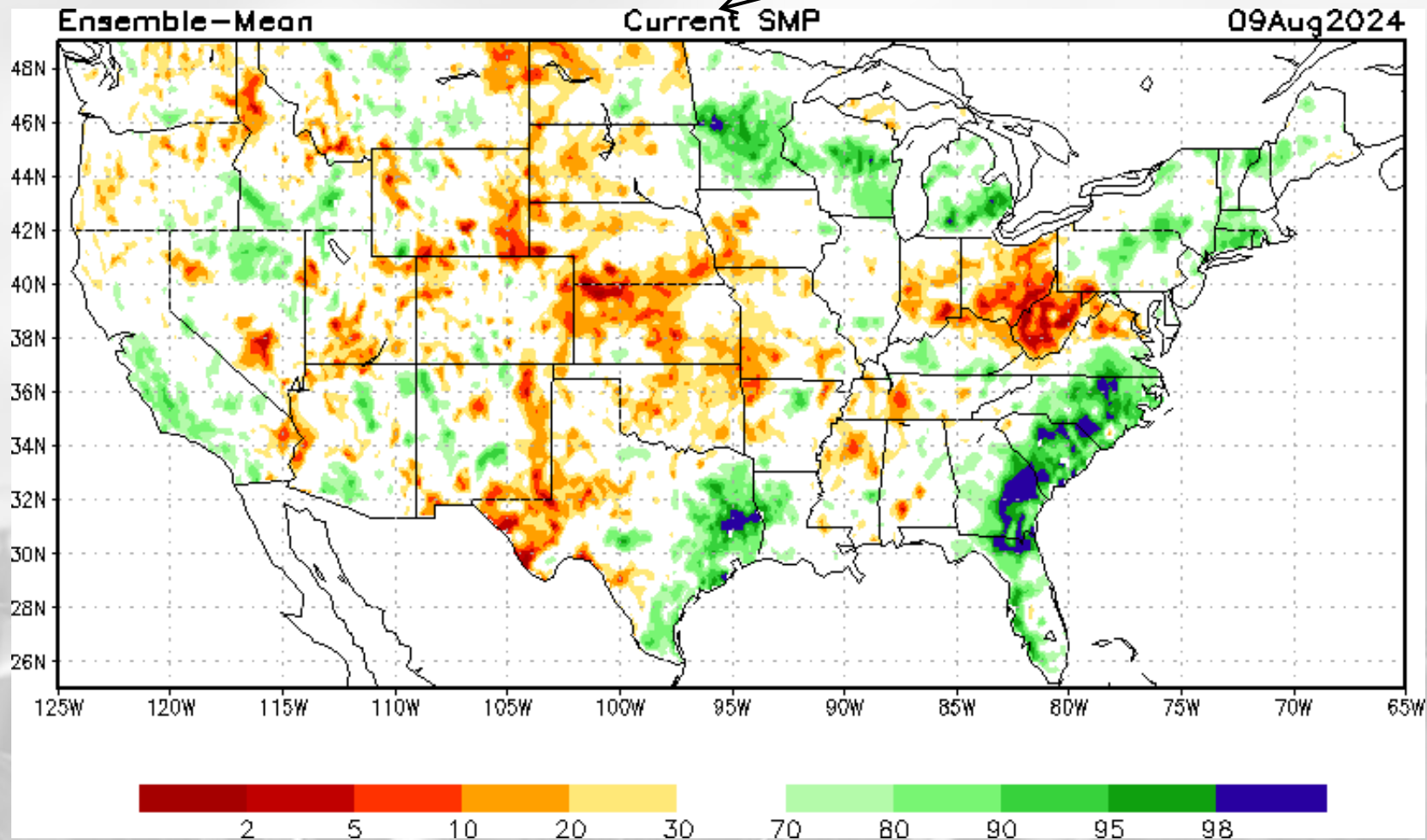
NOAA Regional Climate Centers

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



# Soil Moisture Models

**NOTE:** this map displays the soil moisture percentile for August 9. It was the most recent update on August 12.



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

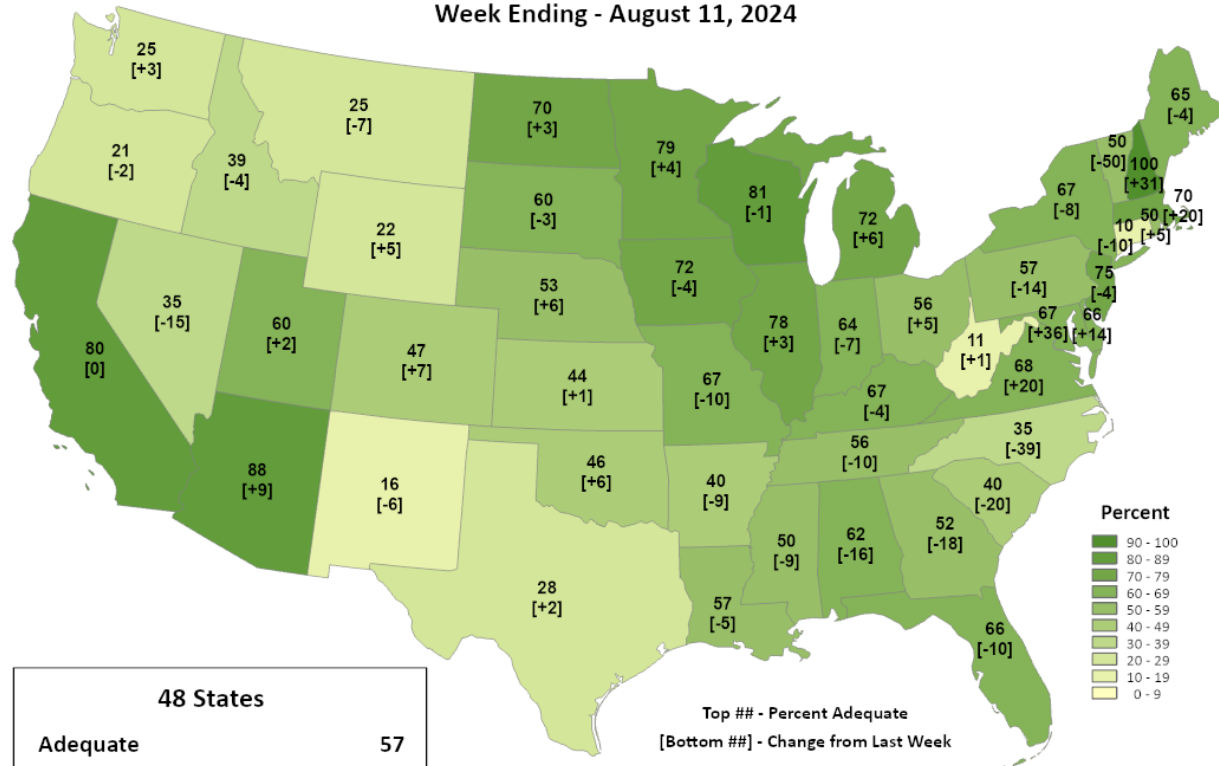


# NASS Topsoil & Subsoil Moisture



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

## Topsoil Moisture Percent Adequate Week Ending - August 11, 2024



<b>48 States</b>	
<b>Adequate</b>	<b>57</b>
<b>Change from Last Week</b>	<b>-1</b>

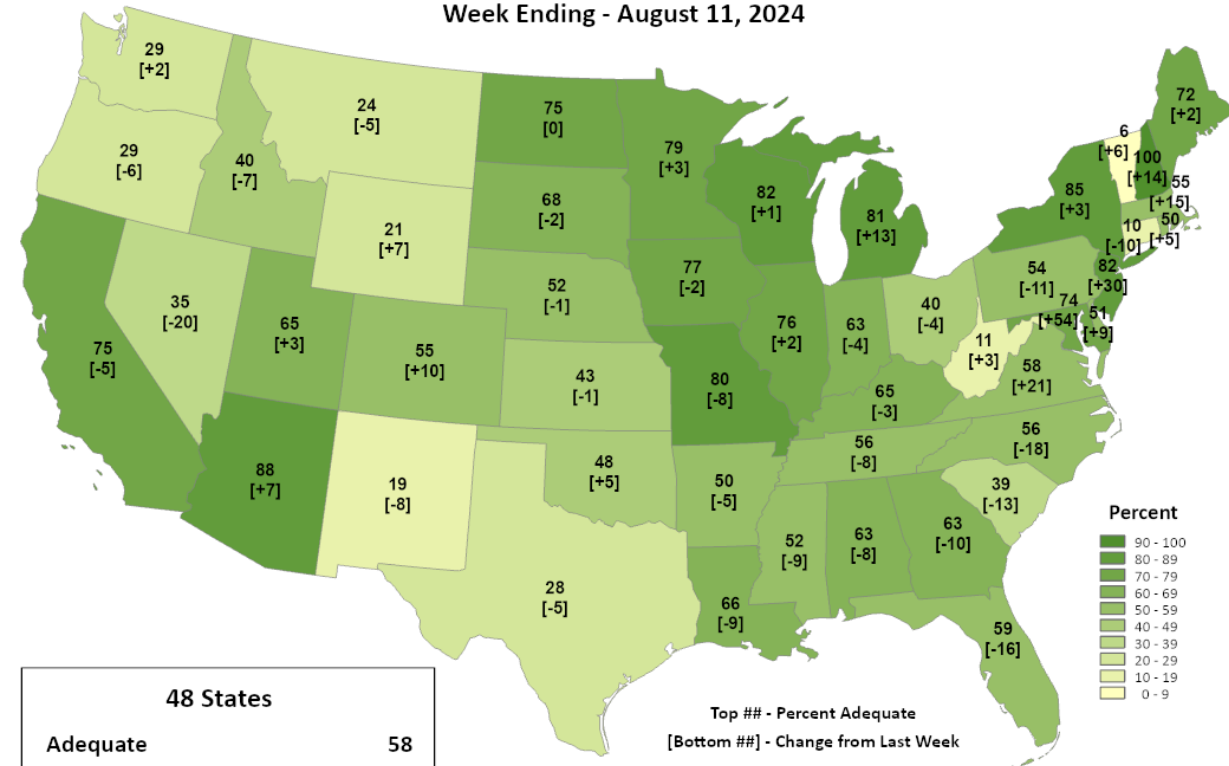
Top ## - Percent Adequate  
[Bottom ##] - Change from Last Week

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



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

## Subsoil Moisture Percent Adequate Week Ending - August 11, 2024



<b>48 States</b>	
<b>Adequate</b>	<b>58</b>
<b>Change from Last Week</b>	<b>-3</b>

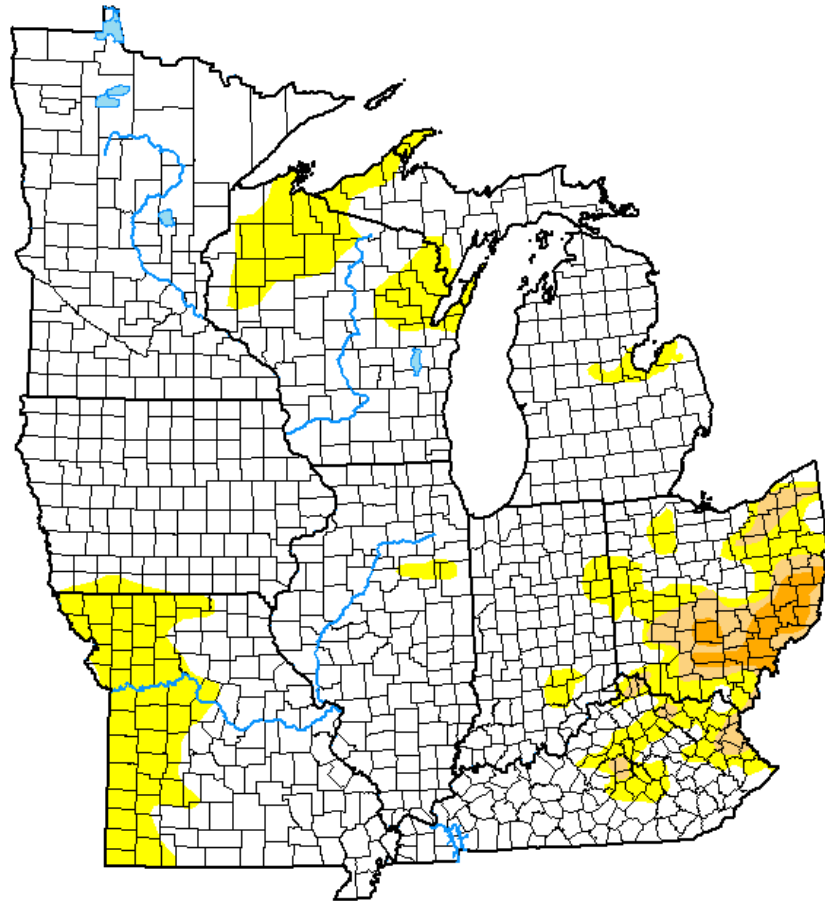
Top ## - Percent Adequate  
[Bottom ##] - Change from Last Week

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

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

# US Drought Monitor

## U.S. Drought Monitor Midwest Climate Region



**August 6, 2024**

(Released Thursday, Aug. 8, 2024)

Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
<b>Current</b>	82.04	17.96	3.36	1.15	0.00	0.00
<b>Last Week</b> 07-30-2024	83.85	16.15	4.48	1.14	0.00	0.00
<b>3 Months Ago</b> 05-07-2024	74.02	25.98	9.97	2.59	0.00	0.00
<b>Start of Calendar Year</b> 01-02-2024	22.92	77.08	50.25	20.76	4.20	0.00
<b>Start of Water Year</b> 09-26-2023	16.82	83.18	54.98	23.81	6.21	0.13
<b>One Year Ago</b> 08-08-2023	28.02	71.98	45.66	19.23	4.08	0.04

Intensity:



The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

Author:

David Simeral  
Western Regional Climate Center



[droughtmonitor.unl.edu](http://droughtmonitor.unl.edu)

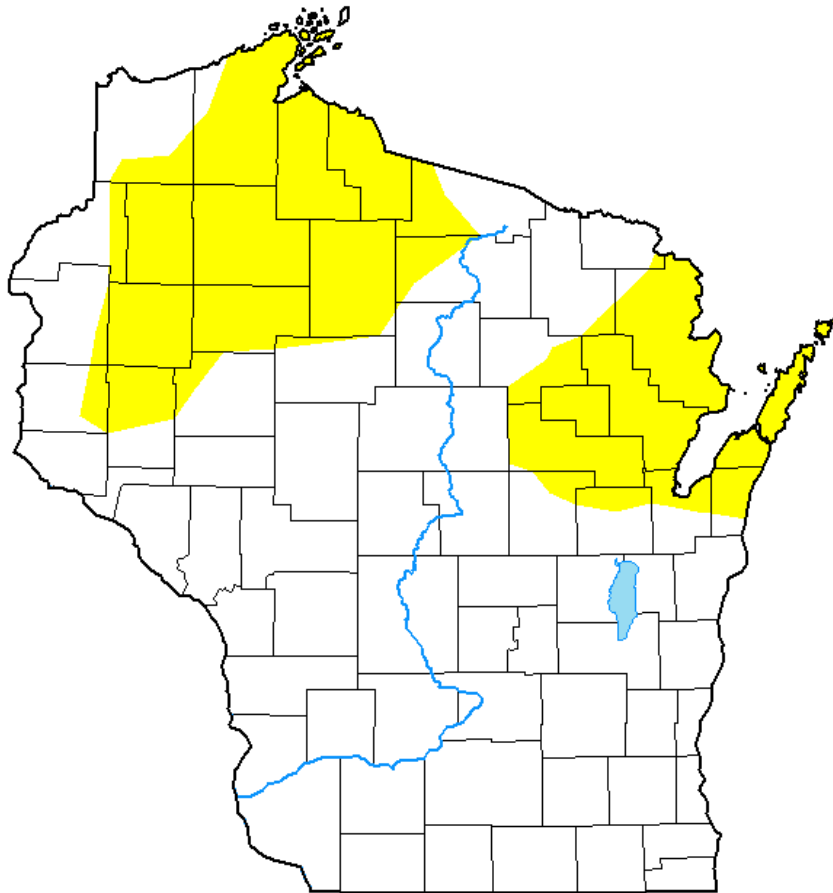
- Compared to last week:
  - Similar to last week, with the worst drought in the state of OH
- **3.4%** of the Midwest is categorized in D1 (moderate) drought.
- **1.2%** in D2 drought, all in OH.
- **18%** of the Midwest is in D0 (abnormally dry) conditions, up from **16%** last week.

Note: D0 is not considered drought.

<http://droughtmonitor.unl.edu/>

# US Drought Monitor

## U.S. Drought Monitor Wisconsin



**August 6, 2024**

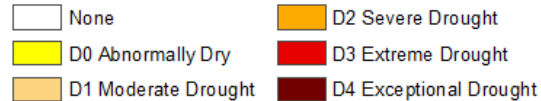
(Released Thursday, Aug. 8, 2024)

Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
<b>Current</b>	71.12	28.88	0.00	0.00	0.00	0.00
<b>Last Week</b> 07-30-2024	71.12	28.88	0.00	0.00	0.00	0.00
<b>3 Months Ago</b> 05-07-2024	71.94	28.06	7.93	2.52	0.00	0.00
<b>Start of Calendar Year</b> 01-02-2024	33.04	66.96	37.34	16.80	0.26	0.00
<b>Start of Water Year</b> 09-26-2023	2.04	97.96	80.86	37.74	6.77	0.00
<b>One Year Ago</b> 08-08-2023	2.02	97.98	82.18	47.02	17.96	0.32

Intensity:



The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

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Western Regional Climate Center



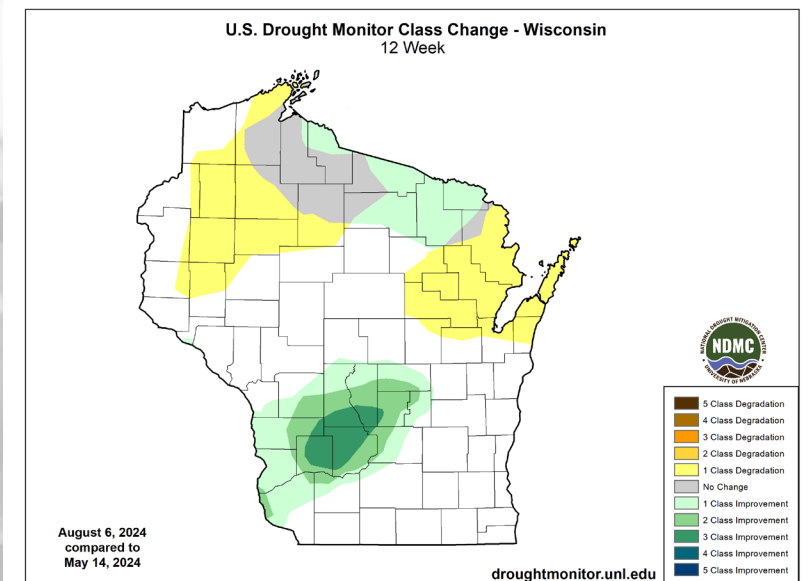
[droughtmonitor.unl.edu](http://droughtmonitor.unl.edu)

<http://droughtmonitor.unl.edu/>

Amount of state in:

- **D1-D4** – 0.0% --
- **D2-D4** – 0.0% --
- **D3-D4** – 0.0% --
- **D4** – 0.0% --

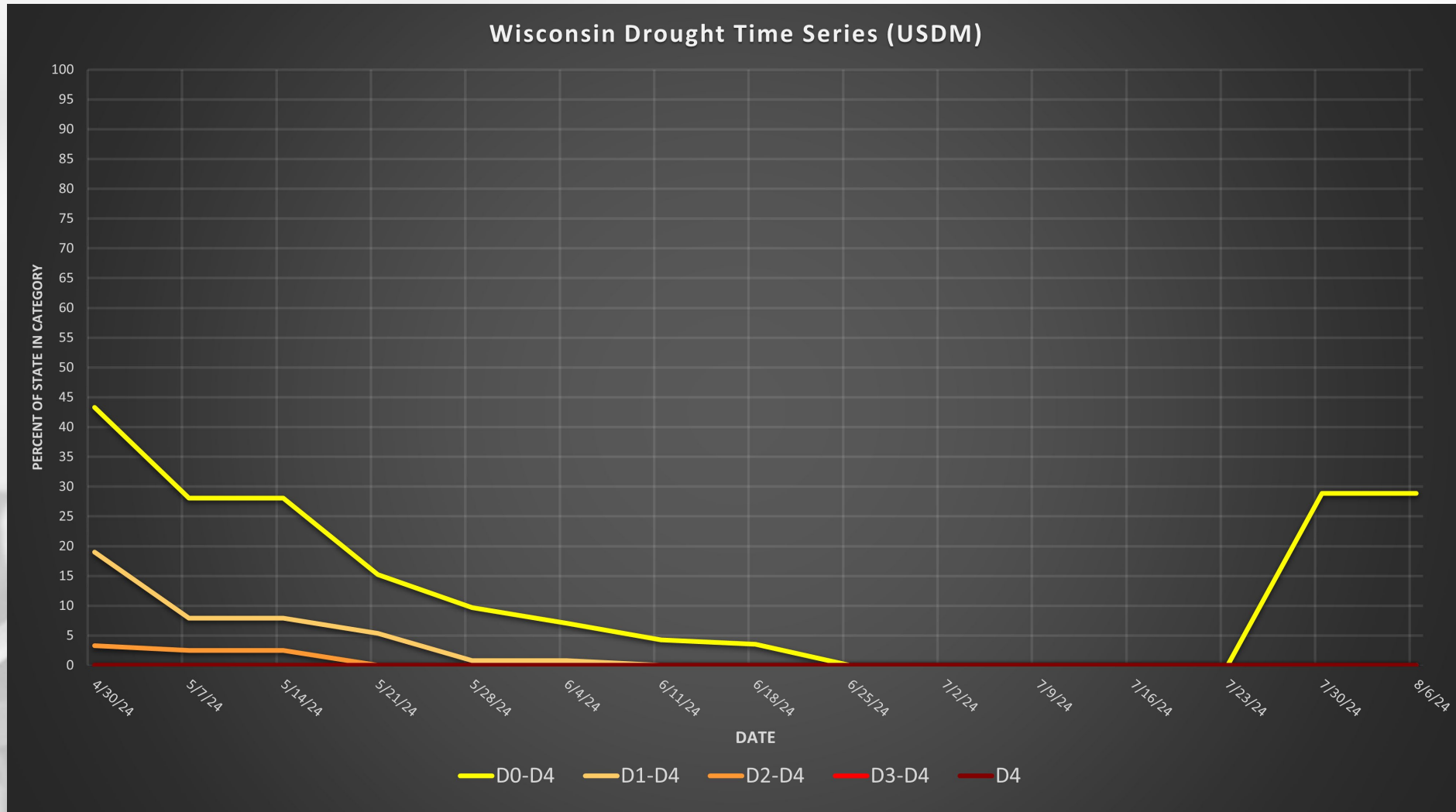
*Note:* ↑ ↓ indicate change from last week. Red up arrows indicate increase in drought area; vice-versa for green arrows.



August 6, 2024  
compared to  
May 14, 2024

[droughtmonitor.unl.edu](http://droughtmonitor.unl.edu)

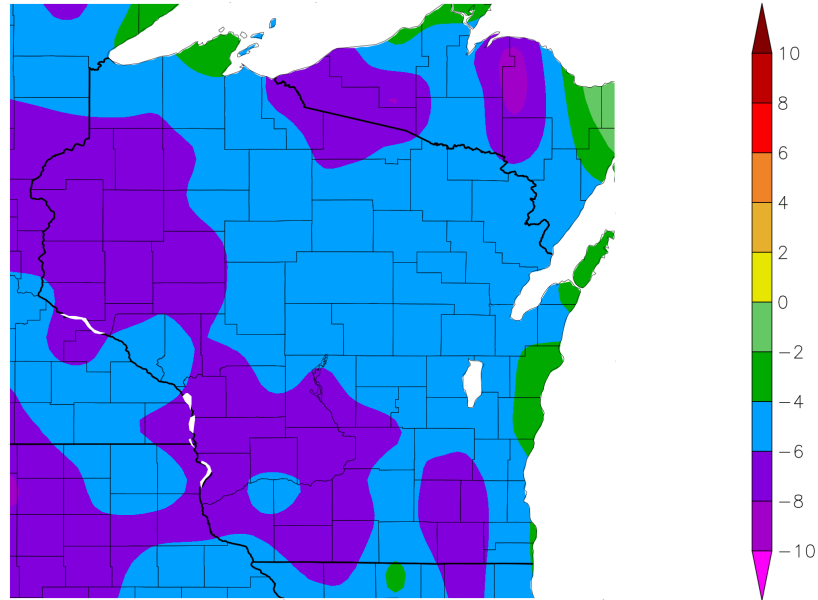
# USDM Time Series



<http://droughtmonitor.unl.edu/>

# 7 Day Temperatures

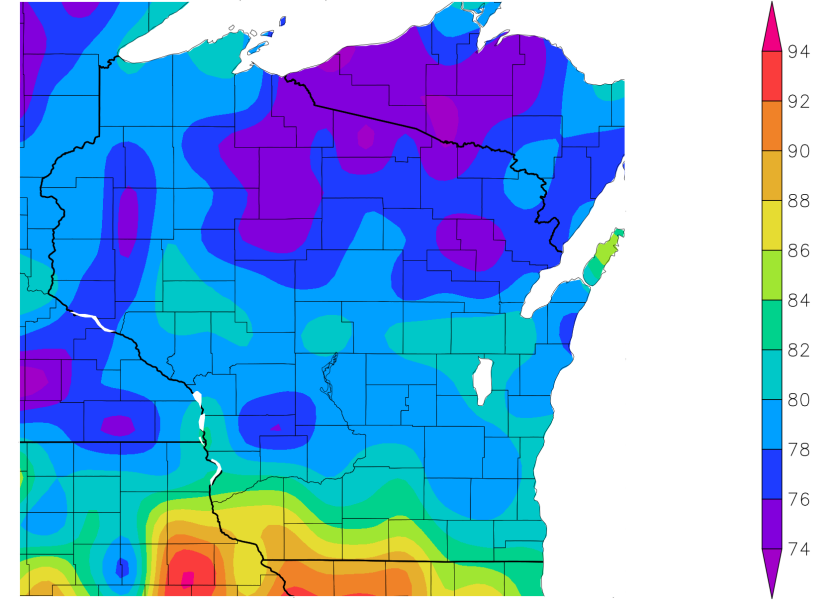
Departure from Normal Temperature (F)  
8/6/2024 - 8/12/2024



Generated 8/13/2024 at HPRCC using provisional data.

NOAA Regional Climate Centers

Highest 1-Day Maximum Temperature (F)  
8/6/2024 - 8/12/2024



Generated 8/13/2024 at HPRCC using provisional data.

NOAA Regional Climate Centers

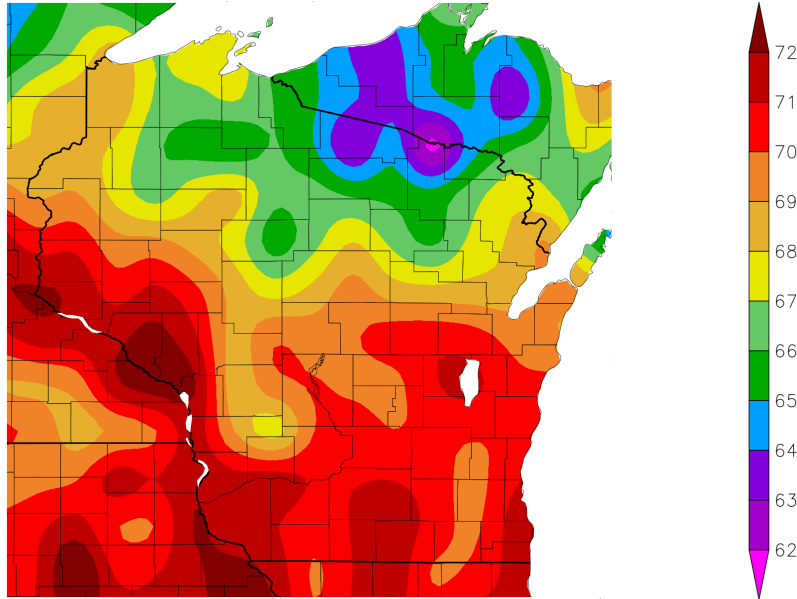
- Last week was **below normal** statewide (**4-8°F below normal**).
- Weekly 1-day maximums in the **upper 70's** for most, with the S reaching the **upper 80's**.





# 30 Day Temperatures

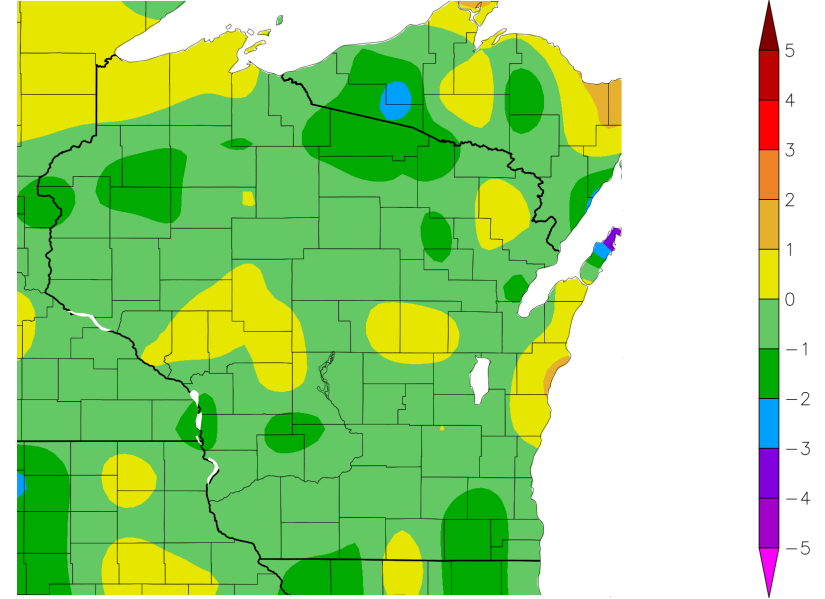
Temperature (F)  
7/14/2024 – 8/12/2024



Generated 8/13/2024 at HPRCC using provisional data.

NOAA Regional Climate Centers

Departure from Normal Temperature (F)  
7/14/2024 – 8/12/2024



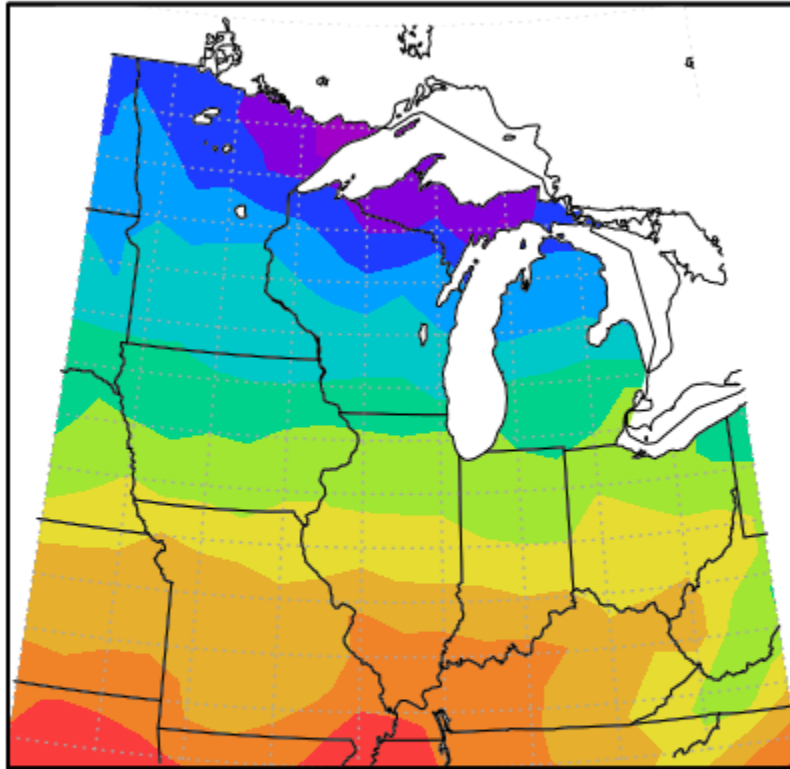
Generated 8/13/2024 at HPRCC using provisional data.

NOAA Regional Climate Centers

- Temperatures for the past month ranged from **70-72°F** in the S & W to **62-65°F** in the far N.
  - **Near normal** (-1 to +1°F) for most locations of the state compared to climatological (1991-2020) average.
  - Slightly **below average** by 1-2°F for spots in the N and SE.

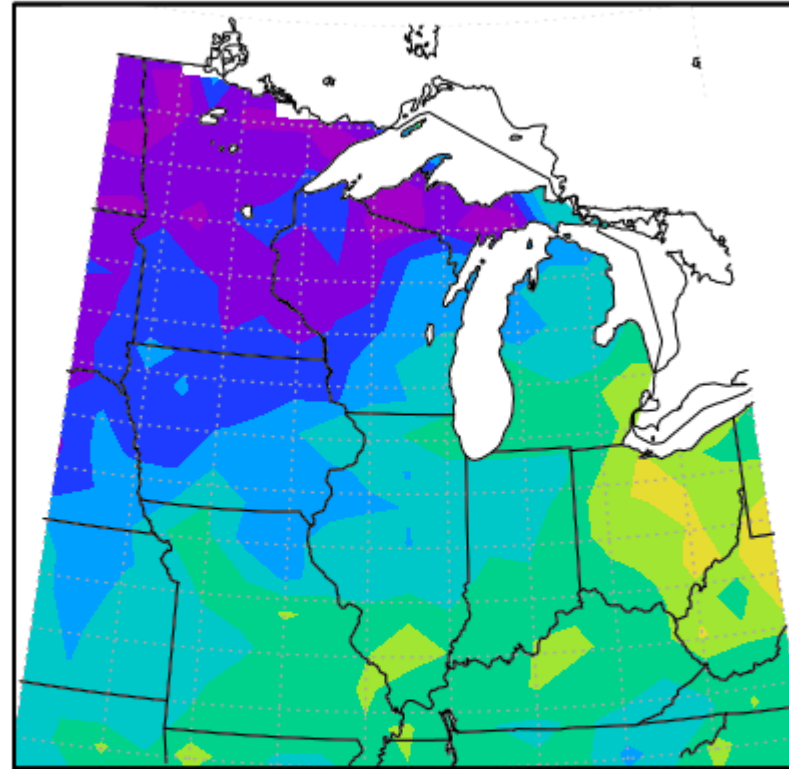
# Growing Degree Days (Base = 50°F; Since April 1)

Total MGDD from 4/1/2024 to 8/12/2024



Midwestern Regional Climate Center  
Purdue University

MGDD Departure, 4/1/2024 to 8/12/2024



Midwestern Regional Climate Center  
Purdue University  
Normals Period, 1991-2020

- **2000-2200** GDD in the S to **1200-1600** GDD in the N.
- SC/SE WI is **100-150** GDD further ahead of the average; **within -/+50** of average in the W/NW and far north.

To calculate GDD for your corn variety and planting date, use this [tool](#).

To see specific degree models for pests in your location, use the [Vegetable Disease & Insect Forecasting Network](#).

[https://mrcc.purdue.edu/climate\\_watch](https://mrcc.purdue.edu/climate_watch)

# NASS Crop Progress – Corn

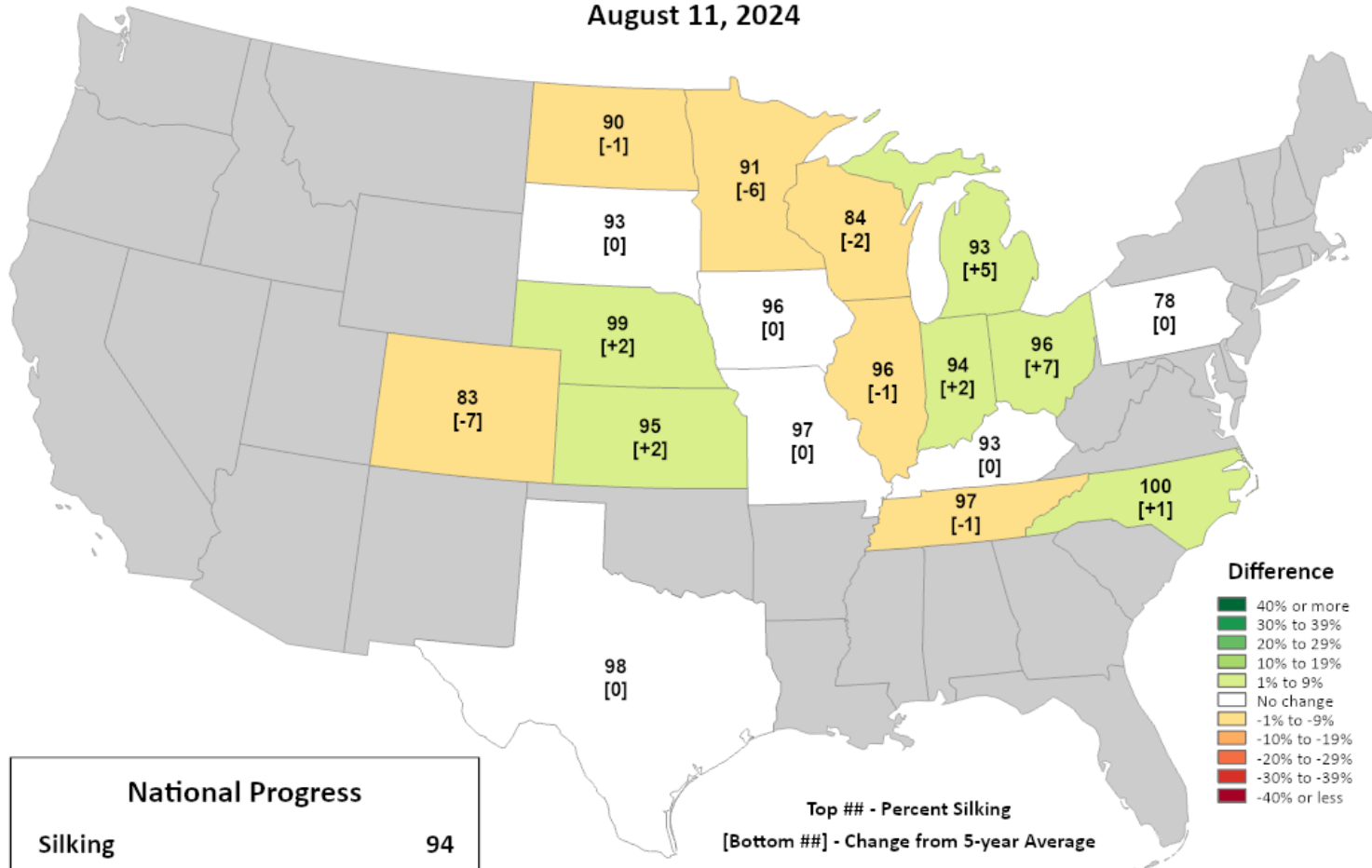


This product was prepared by the  
USDA Office of the Chief Economist (OCE)  
World Agricultural Outlook Board (WAOB)

## Corn Progress

### Percent Silking

August 11, 2024



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

- Silking is over 80% complete in WI corn fields. Silking is **behind of normal pace** in WI and points to the S & E.
  - In WI, silking is **84% complete**. 2% behind of the 5-year average pace & up **12%** from last week.
  - Doughing → **36% complete**

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

# NASS Crop Progress – Soybean

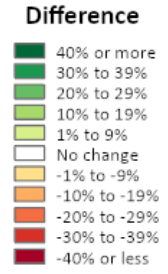
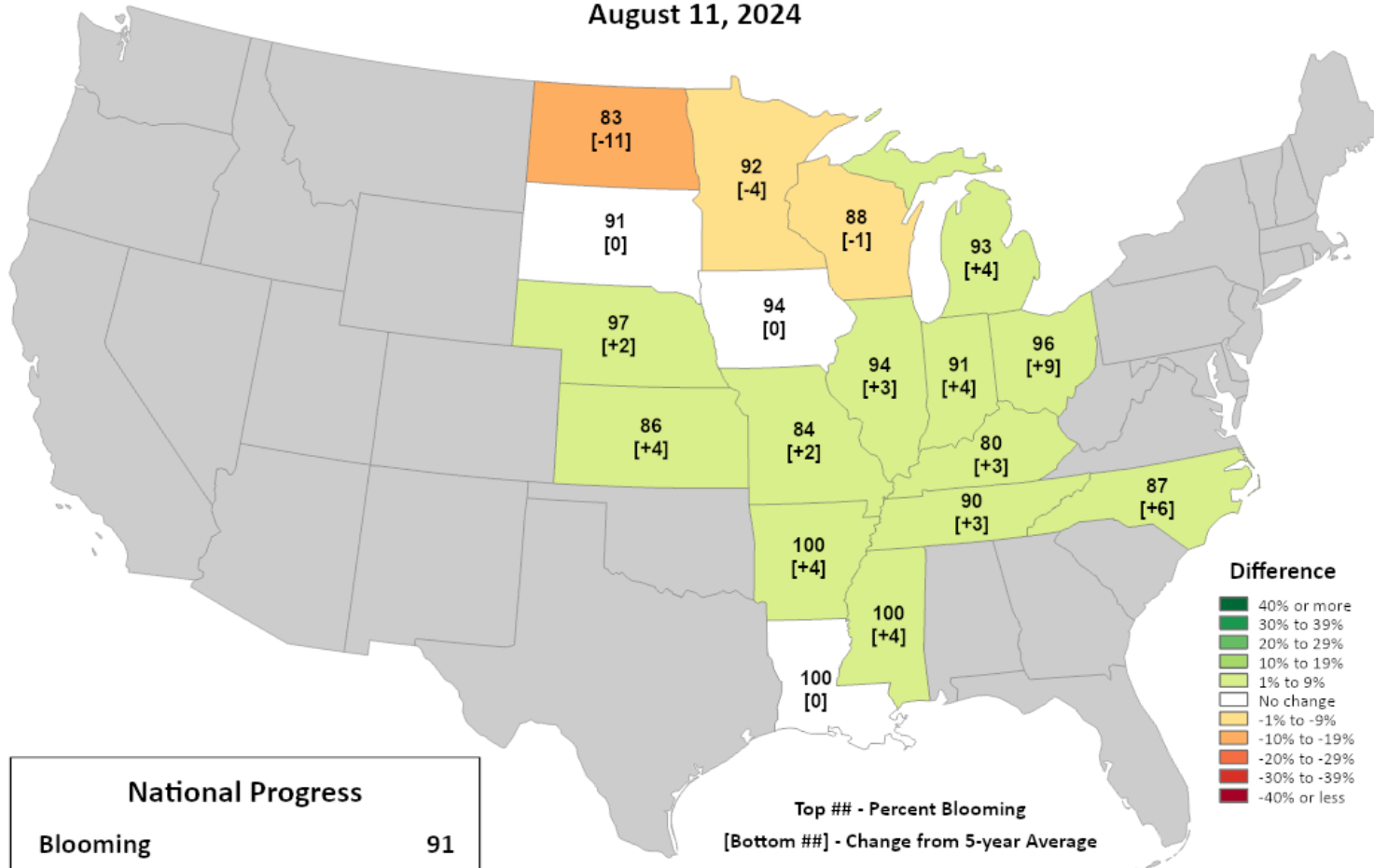


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USDA Office of the Chief Economist (OCE)  
World Agricultural Outlook Board (WAOB)

## Soybeans Progress

### Percent Blooming

August 11, 2024



National Progress	
Blooming	91
Change from 5-year Average	+1

Top ## - Percent Blooming  
[Bottom ##] - Change from 5-year Average

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

- Soybean bloom is still running slightly **behind normal pace** in WI and points to the W/NW. **Ahead of normal pace** to the S.
  - In WI, blooming is **88% complete**. 1% behind of the 5-year average pace & up **7%** from last week.

# NASS Crop Progress – Soybean

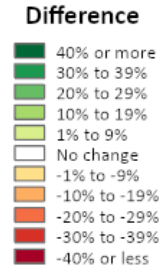
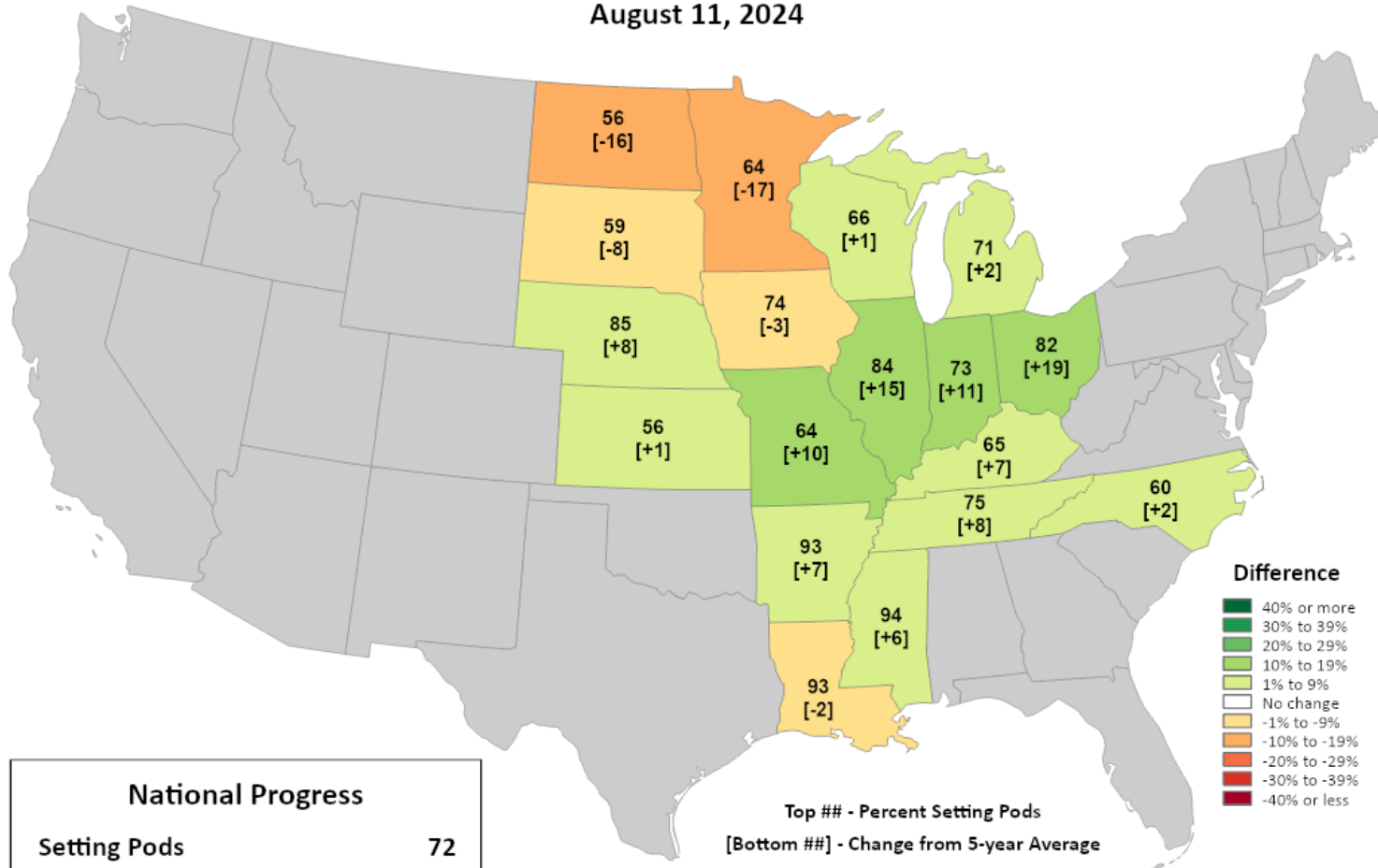


This product was prepared by the  
USDA Office of the Chief Economist (OCE)  
World Agricultural Outlook Board (WAOB)

## Soybeans Progress

### Percent Setting Pods

August 11, 2024



National Progress	
Setting Pods	72
Change from 5-year Average	+2

Top ### - Percent Setting Pods  
[Bottom ###] - Change from 5-year Average

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

- Soybean setting pods is running slightly **ahead normal pace** in WI and points to the **E. Ahead of normal pace** to the S.
  - In WI, setting pods is **66% complete**. 1% ahead of the 5-year average pace & up **17%** from last week.

# NASS Crop Condition

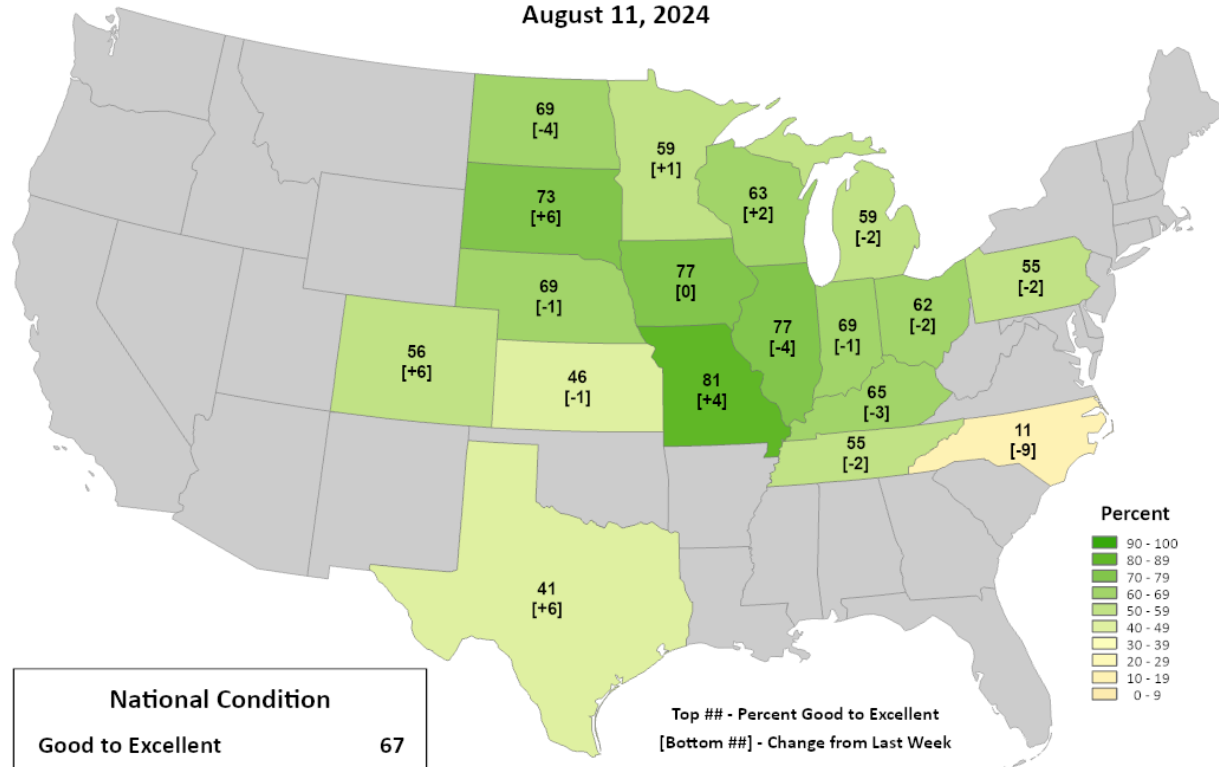


This product was prepared by the  
USDA Office of the Chief Economist (OCE)  
World Agricultural Outlook Board (WAOB)

## Corn Conditions

### Percent Good to Excellent

August 11, 2024



National Condition	
Good to Excellent	67
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.

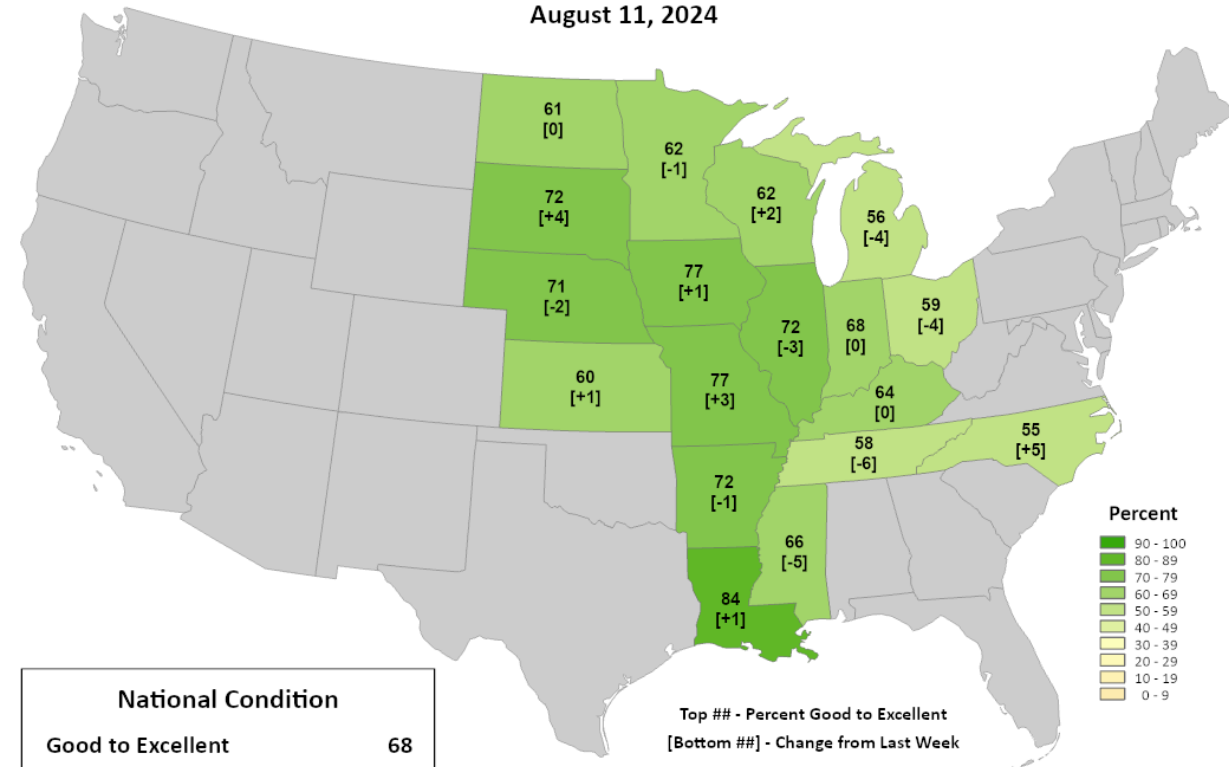


This product was prepared by the  
USDA Office of the Chief Economist (OCE)  
World Agricultural Outlook Board (WAOB)

## Soybean Conditions

### Percent Good to Excellent

August 11, 2024



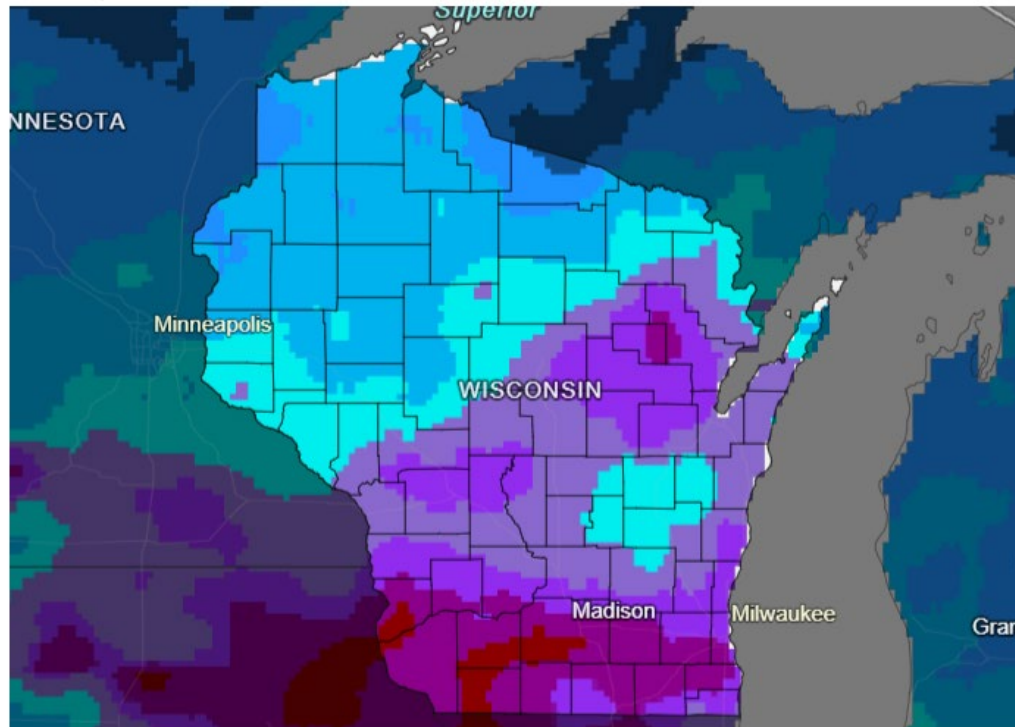
National Condition	
Good to Excellent	68
Change from Last Week	0

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

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

# 7 Day Precip Forecast

7-Day Quantitative Precipitation Forecast for August  
13-20, 2024



Predicted Inches of Precipitation



Source(s): National Weather Service Weather Prediction Center  
Last Updated: 08/13/24

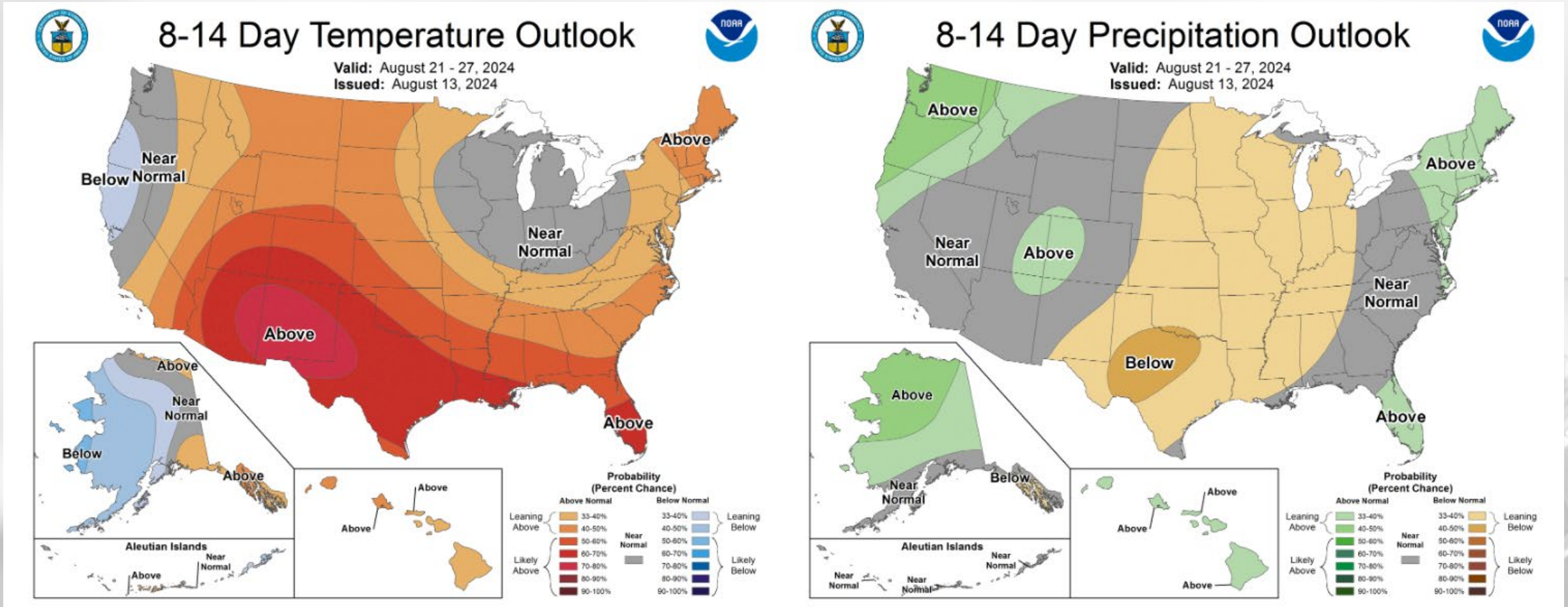
Drought.gov

- **A wetter week** forecasted for WI this next week.
- **Multiple rain chances** from Tuesday through Friday.
- Precip most likely in the **NE, SW, & SE**. Lesser in the **NW**.

Forecast for 8/13/24 thru 8/20/24  
(Begins at 7am CDT)

<https://www.wpc.ncep.noaa.gov/qpf/p168i.gif>  
<https://www.drought.gov/states/wisconsin>

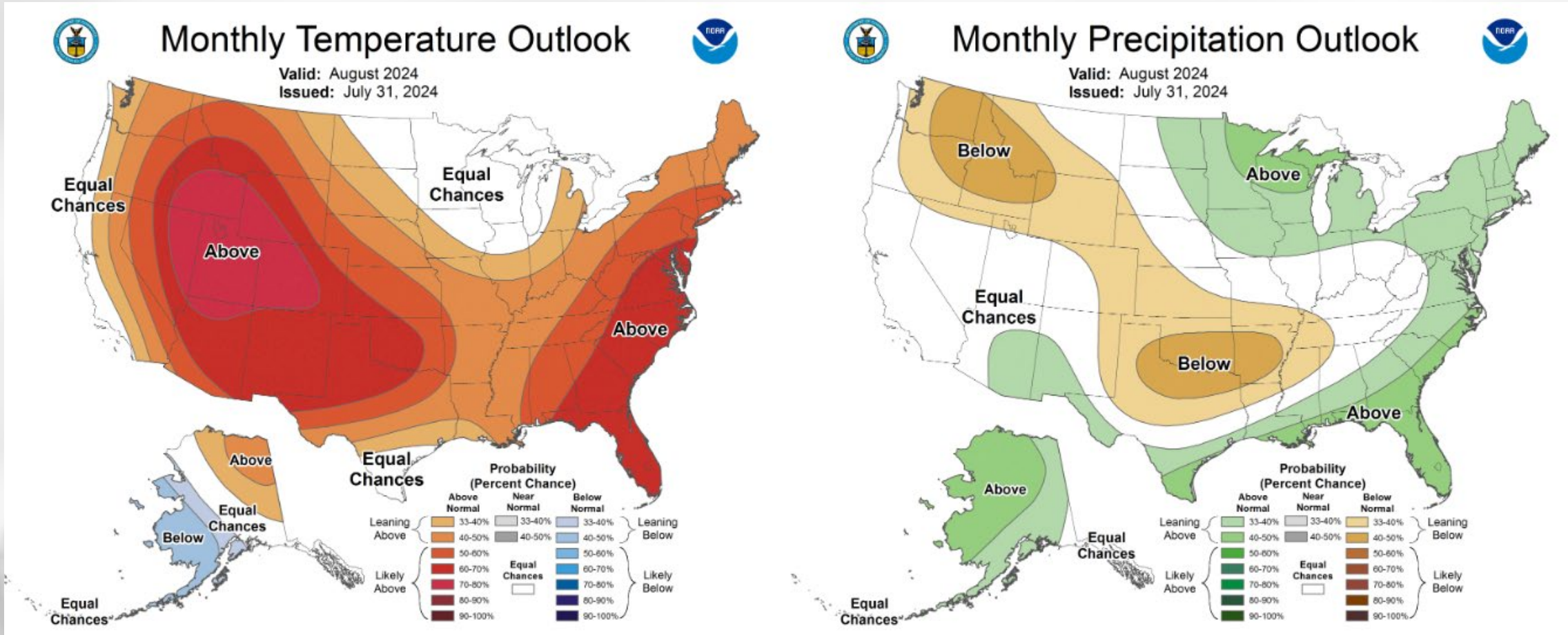
# 8-14 Day Temp & Precip Outlook



**Mid to Late August:** Temperatures leaning near normal. Precipitation leaning below normal except for the far N.

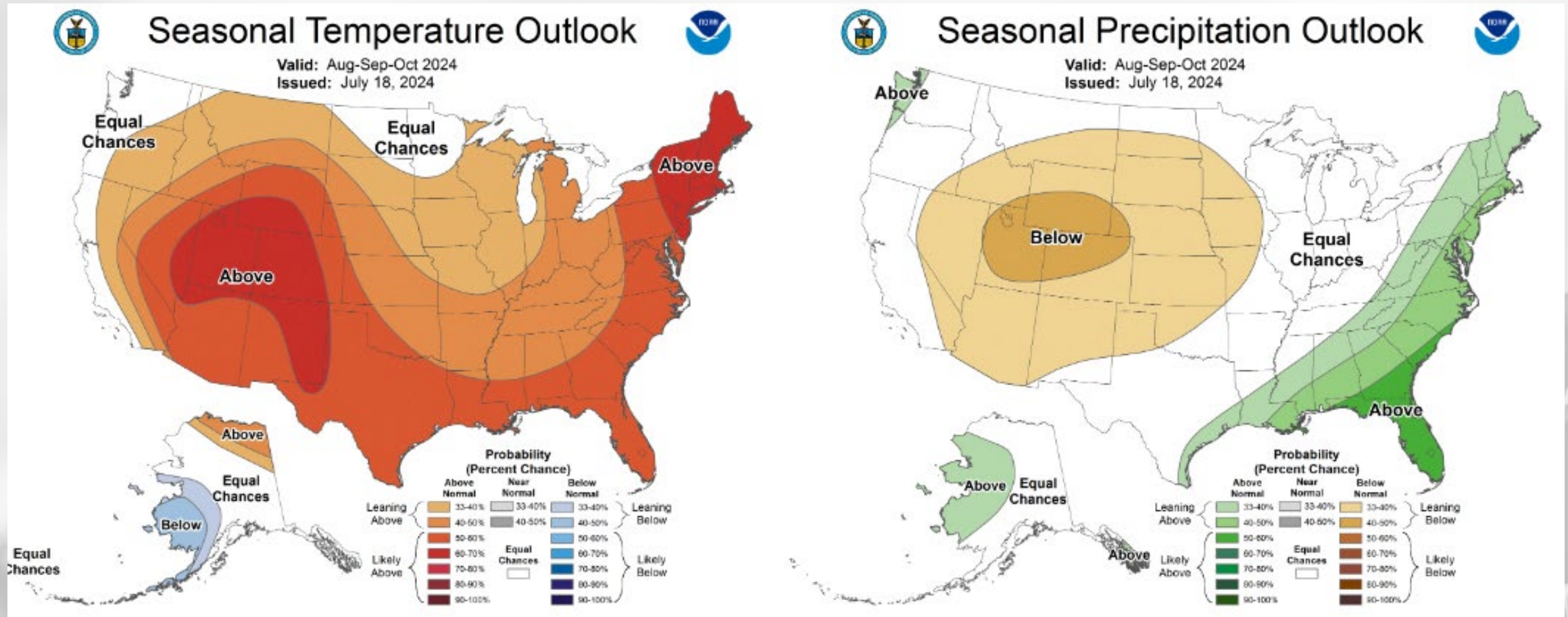


# 30 Day Temp & Precip Outlook



**Month of August:** Temperatures equal chances. Precipitation leaning above normal.

# 90 Day Temp & Precip Outlook



**Late summer into fall:** Temperatures leaning towards above normal. Precipitation uncertainty with equal chances.

# Take-Home Points

## Current Conditions:

- Early August has been **cooler-than-normal** for the majority of WI, particularly in the W/SW.
- Weekly precip totals were **0.5” for most** locations in WI, with some **scattered pockets of 2” or more**.

## Impact:

- Soil moisture levels remain at **~80% adequate** in the state, with no USDM drought categories in the state.
  - **Corn** is at 63% good to excellent, over 84% silking, and has begun to dough in some fields.
  - **Soybeans** are at 62% good to excellent, 88% blooming, and has begun to set pods (66% pod setting complete).
- GDDs are approaching **2200 (1600) units** in the southern (northern) counties, running **ahead of normal pace** in the S & E.

## Outlook:

- **Multiple rain chances** across WI this next week, with a higher likelihood in the **SE/SW & E**.
- Temperatures leaning **near normal** heading into the first full week of August, with most in the state leaning towards **below normal** precip.
- The warmer-than-normal conditions have a higher probability to **continue** through August into early fall with a La Niña pattern taking shape.

# Agronomic Considerations

## Crop Development

- Scouting for crop stage and development of issues is very important this year as the wet spring means that there is a lot of variability in fields and across farms.
- As short season crops come off, consider diverse cover crop mixes to help mitigate any compaction that may have occurred this spring.

## Manure Applications

- Runoff risk varies throughout the state in the next week. Be mindful of the possibility of runoff and plan manure applications accordingly. Check the DATCP runoff risk advisory forecast [here](#).
- After wheat harvest there is an opportunity for manure and cover crops, see info [here](#).

## Pest Management

- Peak western bean cutworm flights have passed in the South. Sign up to receive text alerts when pests are in your region [here](#).
- Japanese beetles have emerged, monitor for defoliation thresholds, see [here](#) for management information.
- Conditions have been right in many places for tar spot and white mold, information available [here](#).
- Time to scout for soybean aphid, see more info [here](#).
- Scout for corn rootworm beetle to determine pressure on next year's continuous corn.

## Forage Management

- Ensure wide swaths when mowing alfalfa to increase rate of drying and harvest sooner, reducing risk of rain damage.
- Avoid hay fire risks. Be aware of hay moisture and monitor stack temperature when putting up dry hay, consider wrapped bales.
- Look out for herbicide carryover, volunteers in late summer seeding of alfalfa wheat. [Read more](#).
- Corn Silage Harvest - look for local opportunities for stalk chopping to gauge moisture content, scout fields to understand which may be ready first. For varying planting dates, plan for a segregated, longer season harvest to optimize forage quality.

# User Survey

Are you a regular user of the Wisconsin Ag Climate Outlook (WACO)? Or maybe you are viewing these slides for the first time this week? Either way, we want to hear **your** feedback on this new resource! Please take a few minutes and fill out this survey:

**[LINK TO SURVEY](#)**

Your feedback will help us better serve your ag-climate data needs through WACO.

If you have any trouble accessing or filling out the survey, please email Josh Bendorf at [Joshua.Bendorf@usda.gov](mailto:Joshua.Bendorf@usda.gov).

Thank you!!

-The WACO Team

# Citizen Science Opportunity

## CoCoRaHS – Community Collaborative Rain, Hail, & Snow Network

### The Mission

(From cocorahs.org)

- Provide accurate high-quality precipitation data for end-users;
- Increasing the density of precipitation data available throughout the country;
- Encouraging citizens to have fun participating in meteorological science and heightening their awareness about weather;
- Providing weather education opportunities.



Sign Up Here:

<https://cocorahs.org/Content.aspx?page=application>

# Contact Info

Photo Credit: USDA



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