



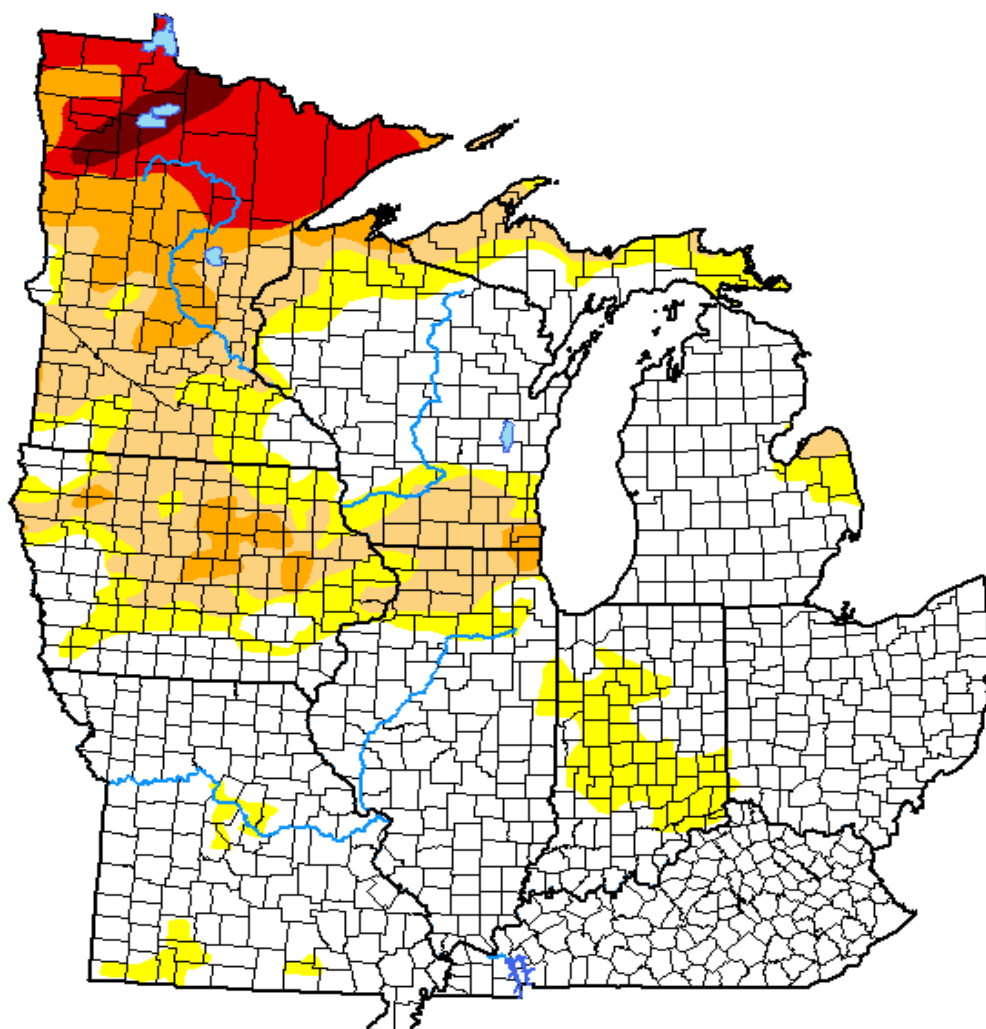
Drought Briefing

9/10/2021
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Update for the week of Sep 7, 2021

...Drought Persisting into Fall...

U.S. Drought Monitor Midwest



September 7, 2021

(Released Thursday, Sep. 9, 2021)

Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	63.36	36.64	23.80	11.59	6.21	0.99
Last Week 08-31-2021	61.70	38.30	24.54	12.68	6.38	1.15
3 Months Ago 06-08-2021	44.72	55.28	27.35	5.94	0.00	0.00
Start of Calendar Year 12-29-2020	56.05	43.95	12.36	2.26	0.45	0.00
Start of Water Year 09-29-2020	58.19	41.81	11.09	3.01	0.00	0.00
One Year Ago 09-08-2020	66.02	33.98	13.98	4.50	1.66	0.00

Intensity:

None	D2 Severe Drought
D0 Abnormally Dry	D3 Extreme Drought
D1 Moderate Drought	D4 Exceptional Drought

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

✓ Drought Message of the Day:

- Spotty rains resulted in localized improvements the last two weeks.
- Overall, widespread drought or abnormally dry conditions persist across the area.

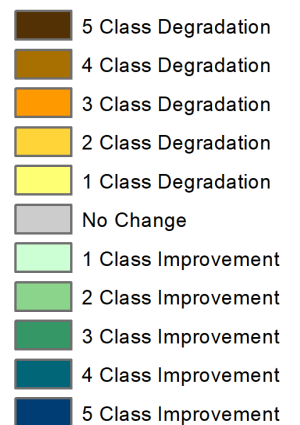
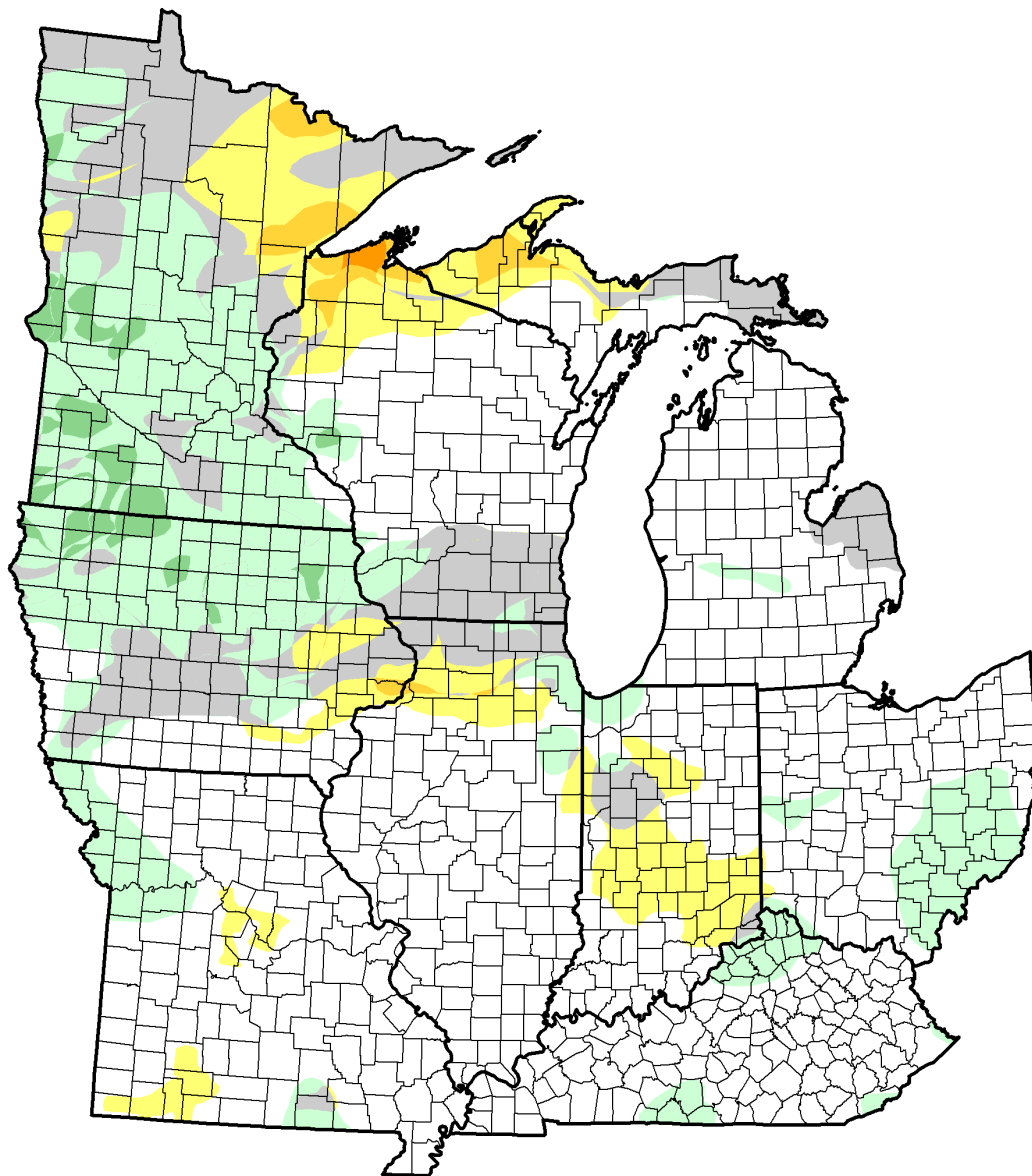


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One-week Change in Drought Status

U.S. Drought Monitor Class Change - Midwest
4 Week



droughtmonitor.unl.edu

Important Changes since Last Week:

NEW

- Slight improvements in spots during the last week...
- But overall the trend has been drier during the last 4 weeks, especially along and near the I-80 corridor.



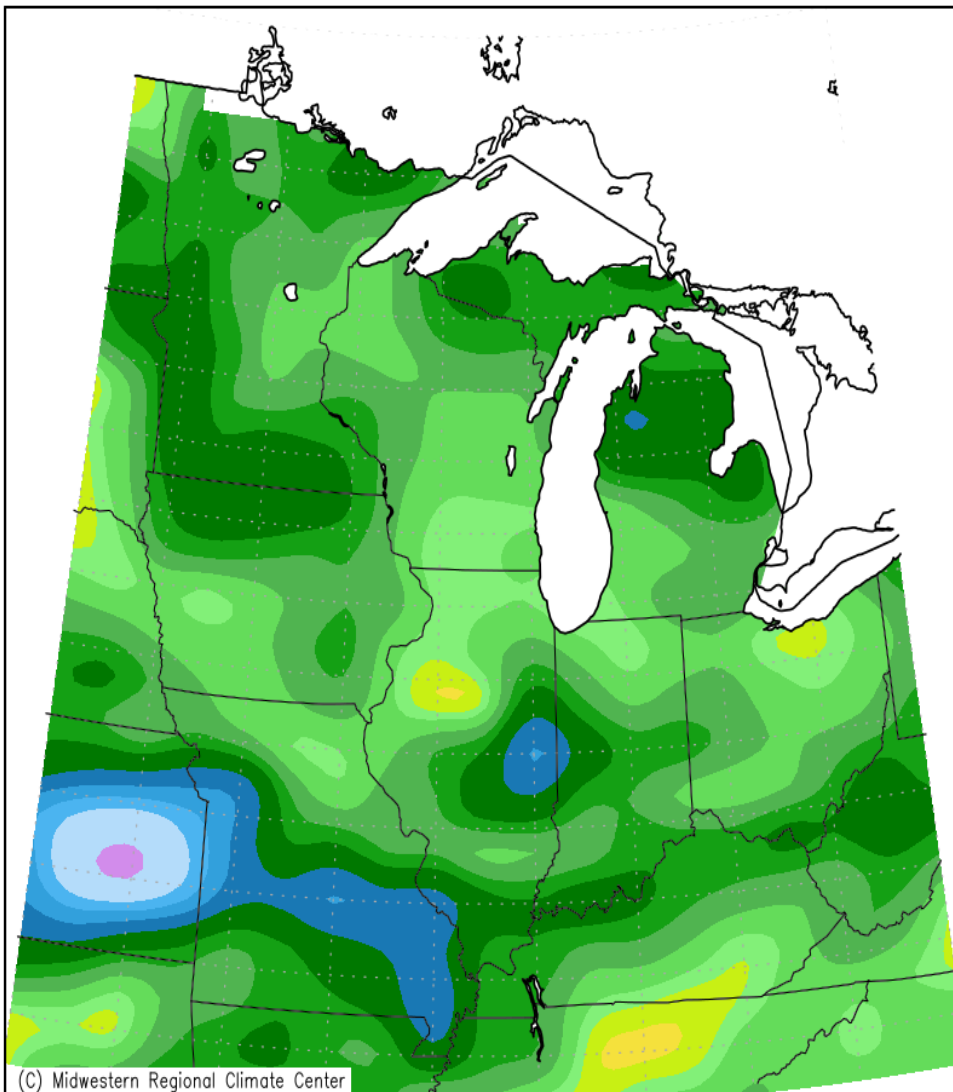
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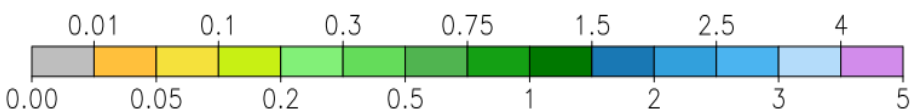
Weekly Precipitation

Total Precipitation

Accumulated Precipitation (in)
September 3, 2021 to September 9, 2021



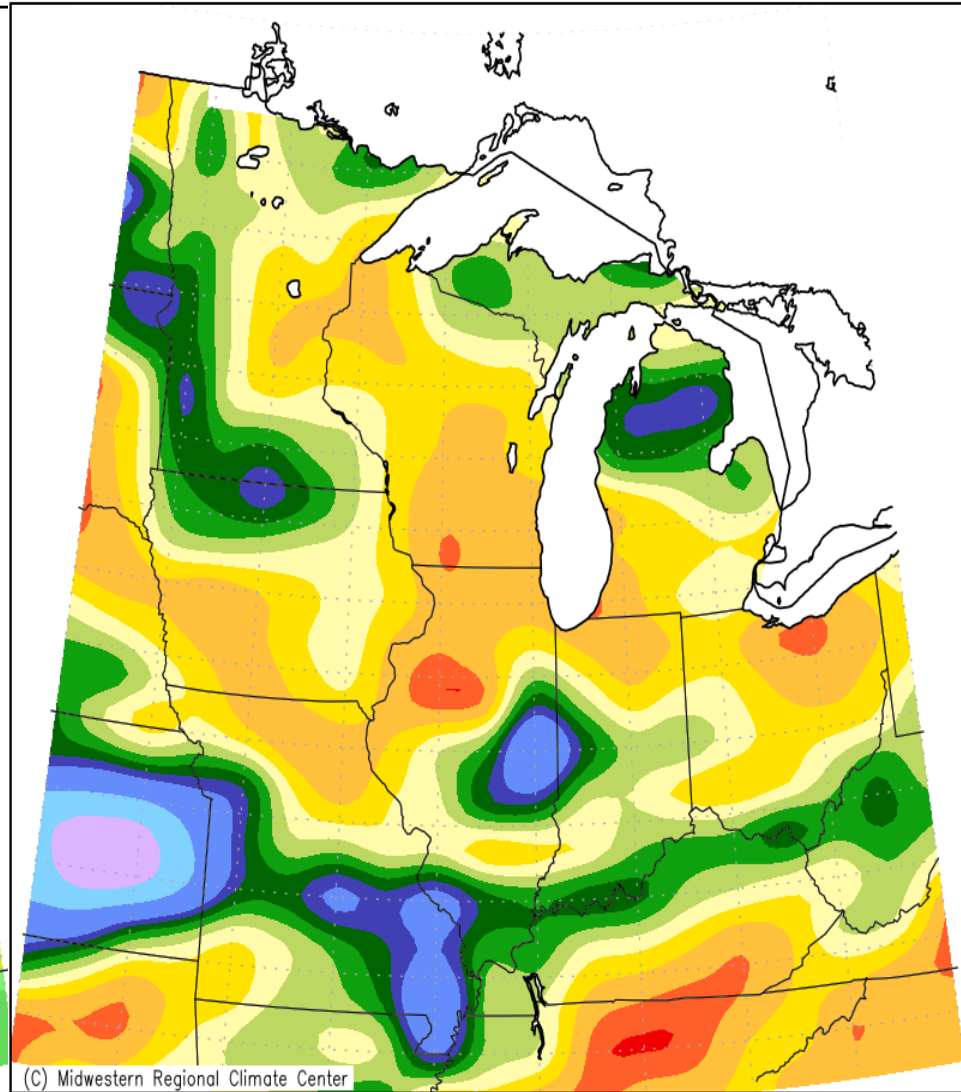
(C) Midwestern Regional Climate Center



Midwestern Regional Climate Center
Purdue University

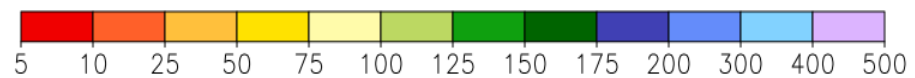
Percent of Normal

Accumulated Precipitation: Percent of Mean
September 3, 2021 to September 9, 2021



(C) Midwestern Regional Climate Center

Mean period is 1991–2020.



Midwestern Regional Climate Center
Purdue University



Maps courtesy of the Midwestern Regional Climate Center



Drought Briefing

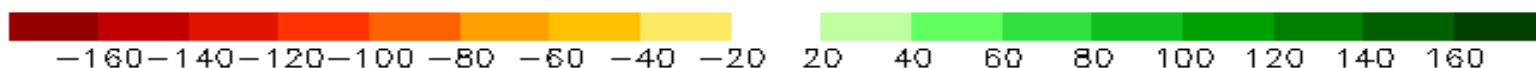
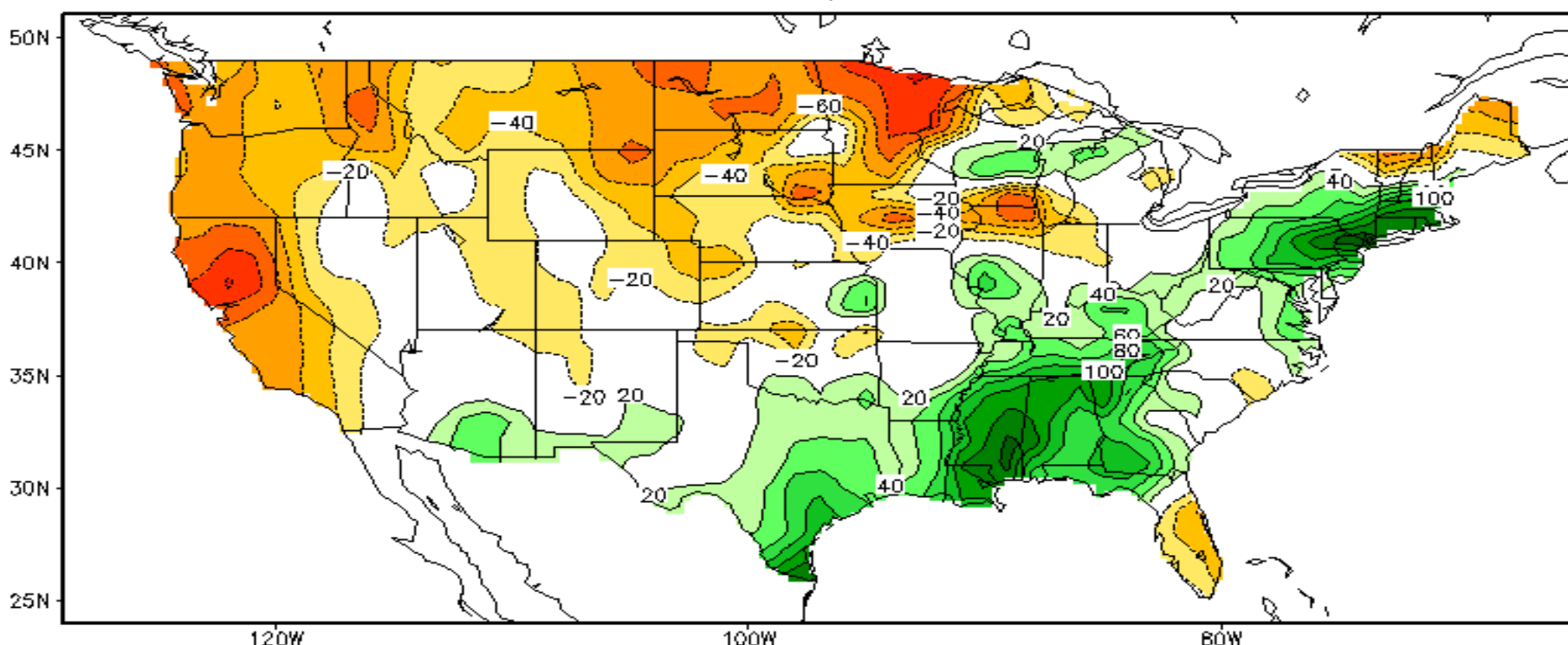
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Soil Moisture Status from CPC

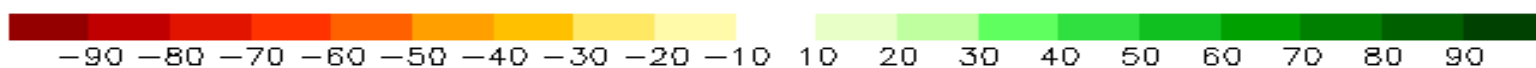
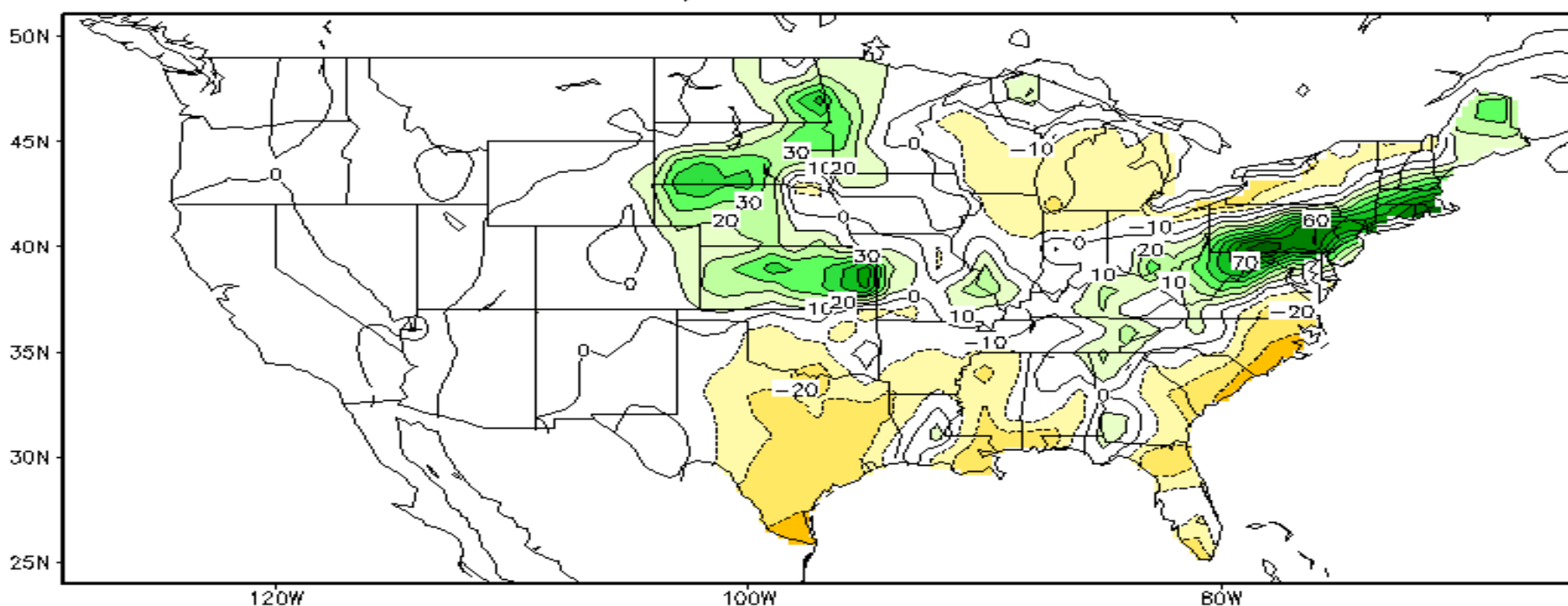
Soil Moisture Difference from Normal

Calculated Soil Moisture Anomaly (mm)
SEP 07, 2021



Soil Moisture Change

Calculated Soil Moisture Anomaly Change
SEP 07, 2021 from AUG.31





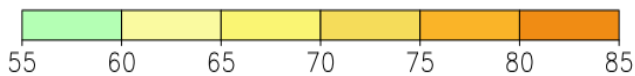
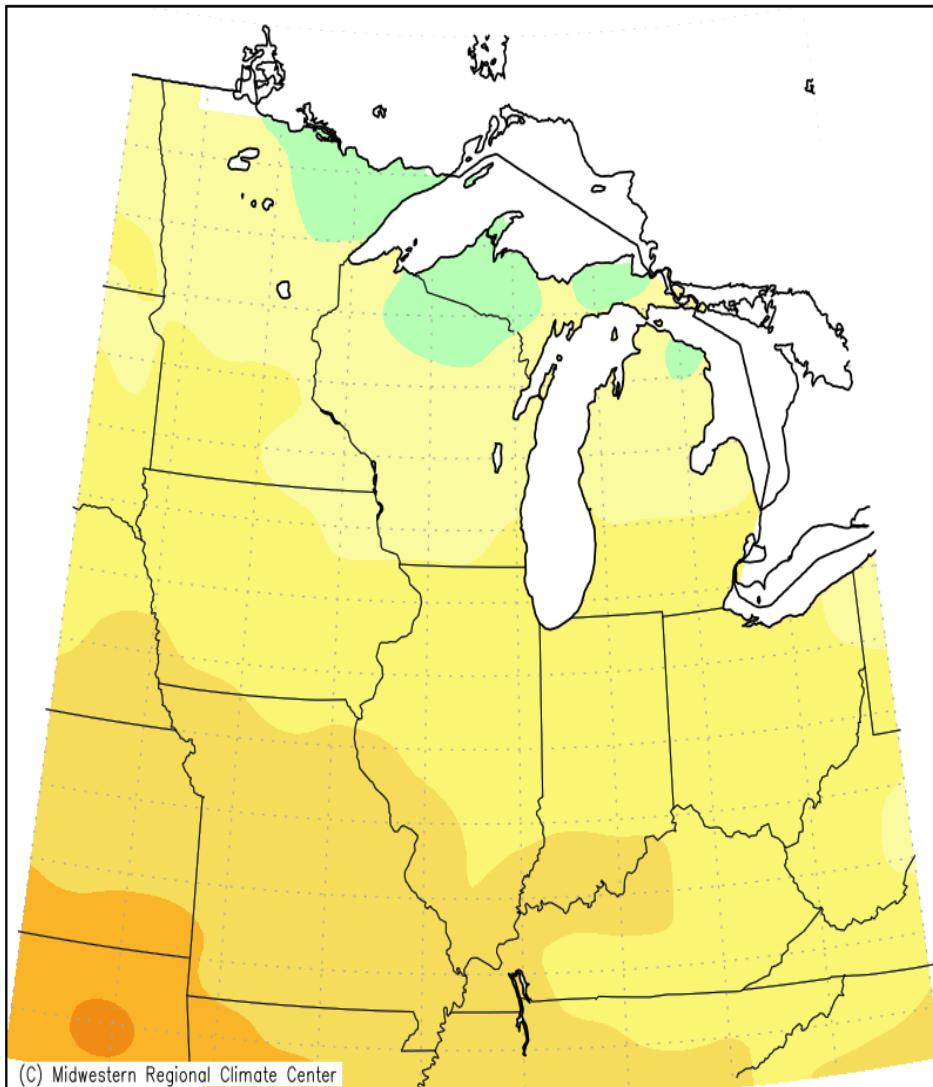
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Weekly Temperatures

Average Temperature

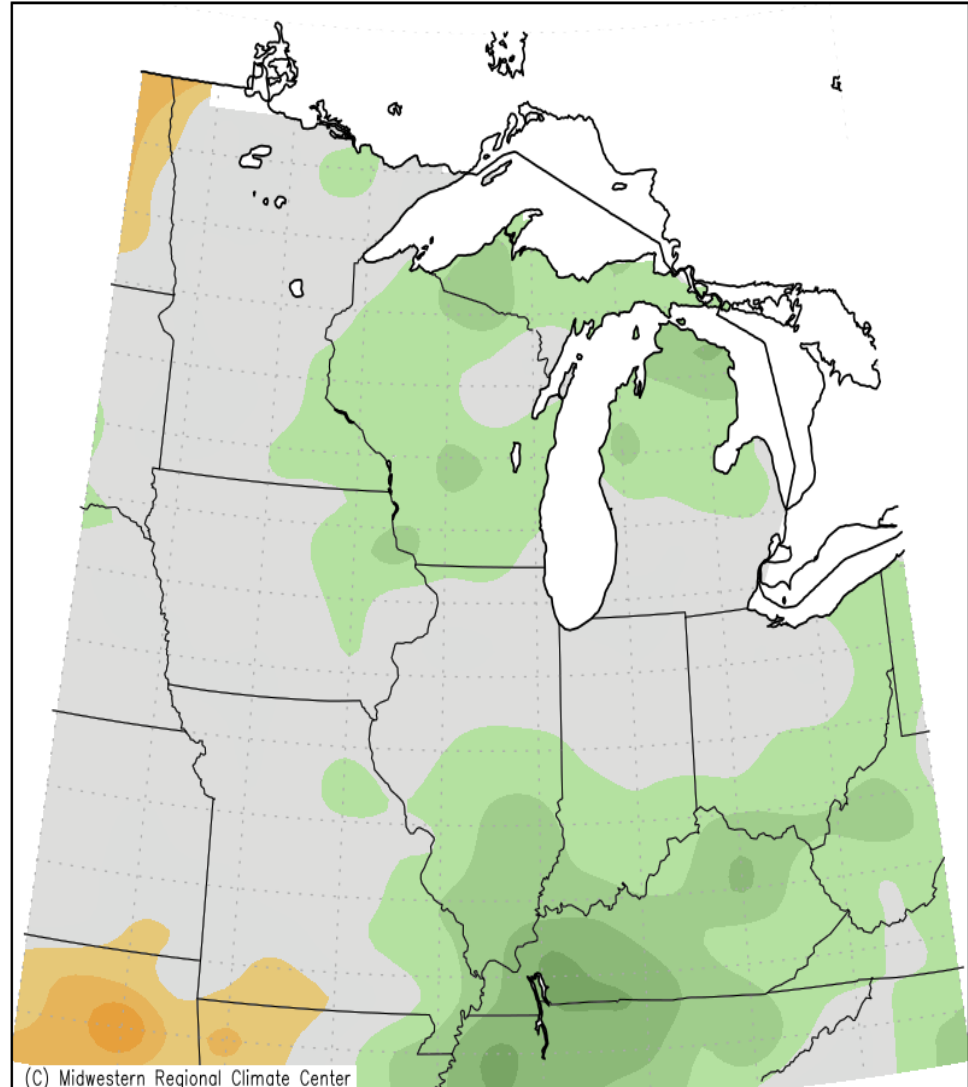
Average Temperature (°F)
September 3, 2021 to September 9, 2021



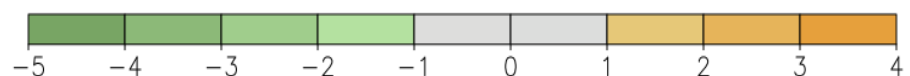
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Purdue University

Difference from Normal

Average Temperature (°F): Departure from Mean
September 3, 2021 to September 9, 2021



Mean period is 1991–2020.



Midwestern Regional Climate Center
Purdue University



Maps courtesy of the Midwestern Regional Climate Center



NATIONAL WEATHER SERVICE
OCEANIC AND ATMOSPHERIC ADMINISTRATION

Quad Cities, IA/IL



Drought Briefing

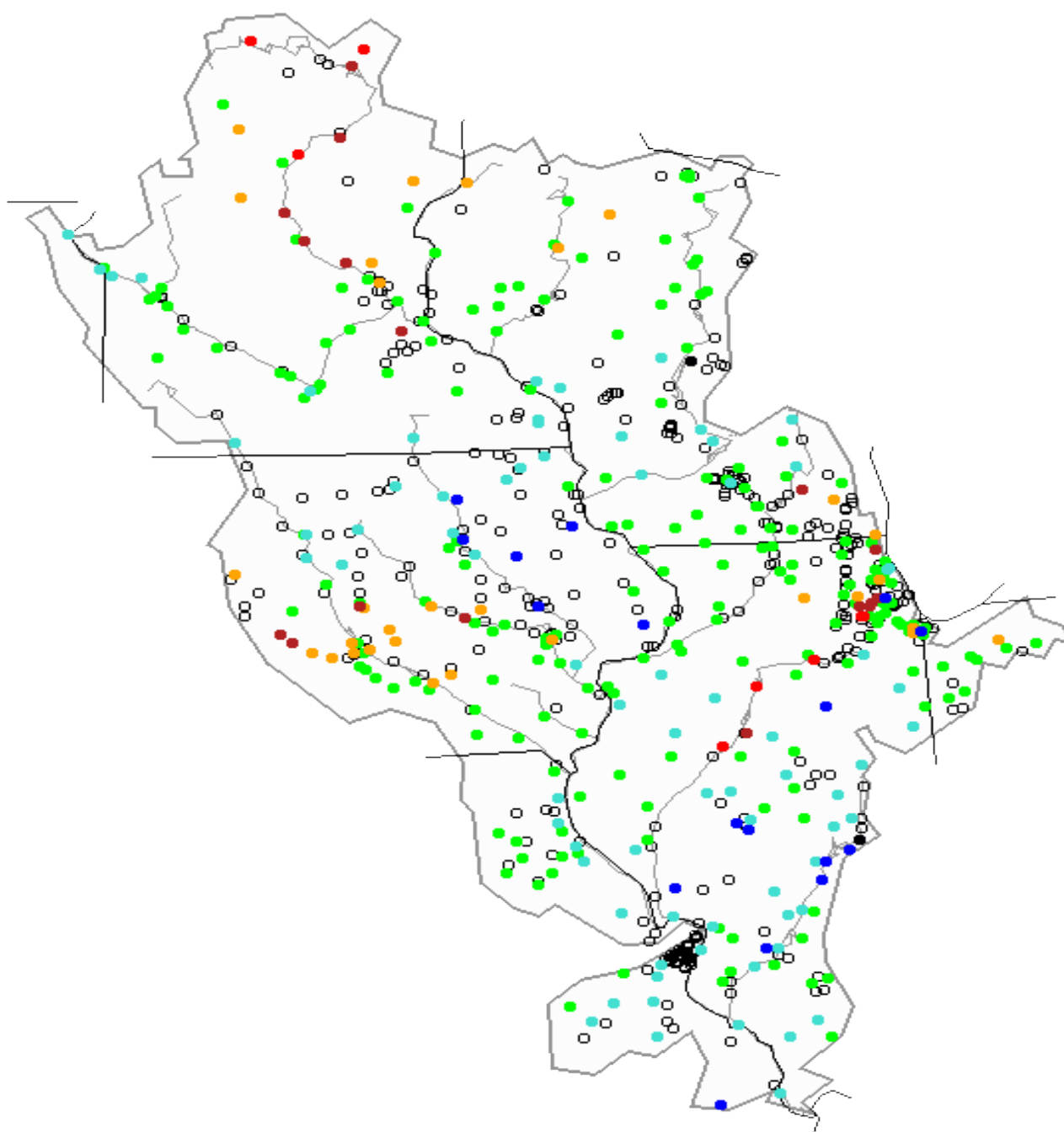
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USGS Streamflow Levels

- River levels...no issues as recent rainfall helped boost levels and actually caused flooding in some spots.
- Groundwater...no issues reported

Friday, September 10, 2021 16:30ET



Explanation - Percentile classes

Low	<10	10-24	25-75	76-90	>90	High	Not-ranked
	Much below normal	Below normal	Normal	Above normal	Much above normal		

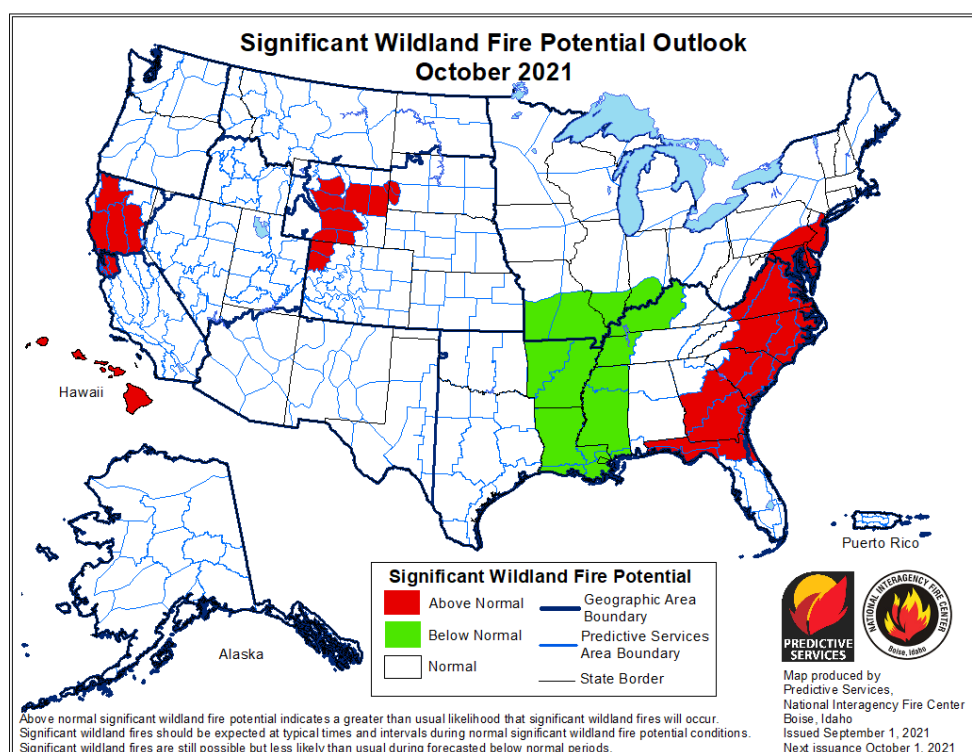
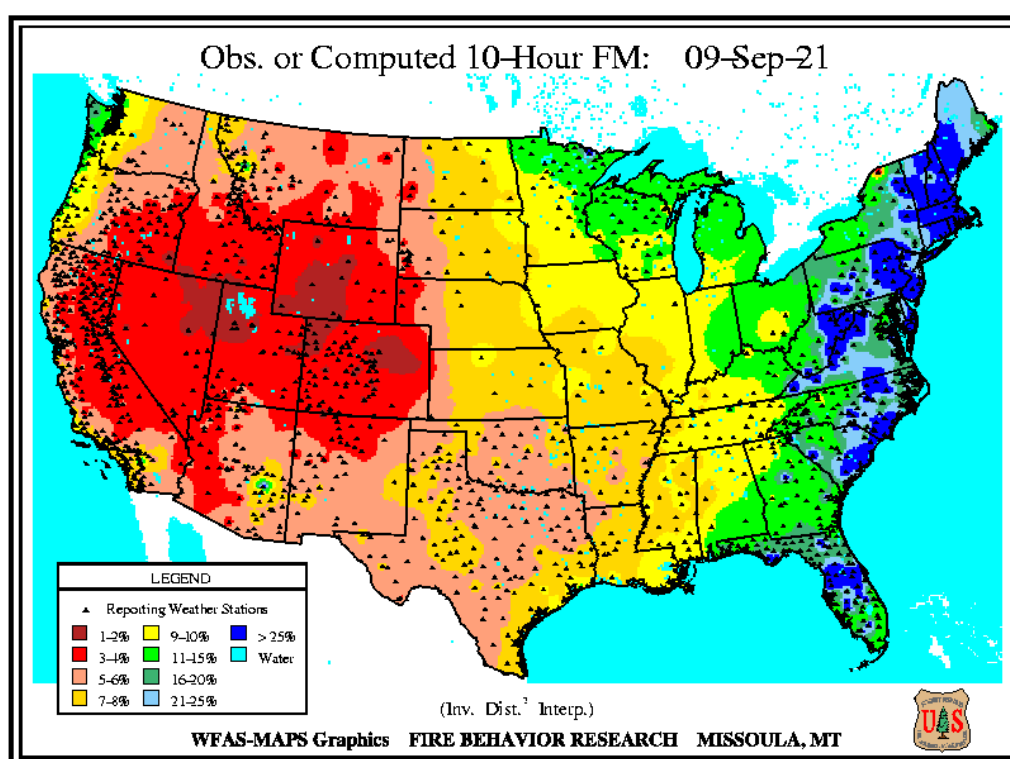




Drought Briefing

Fire Weather Conditions

- Fire status and burn bans...no issues at this time, but as we near harvest, the occurrence of warm, dry and windy conditions will increase fire danger.





Drought Briefing

9/10/2021
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Impacts and Actions

- Crop condition...we have reach the time of the growing season where additional rainfall can be detrimental for crops approaching harvest, though pastures could use additional water.
- Water restrictions...none known
- Ecological effects...none known
- Other...





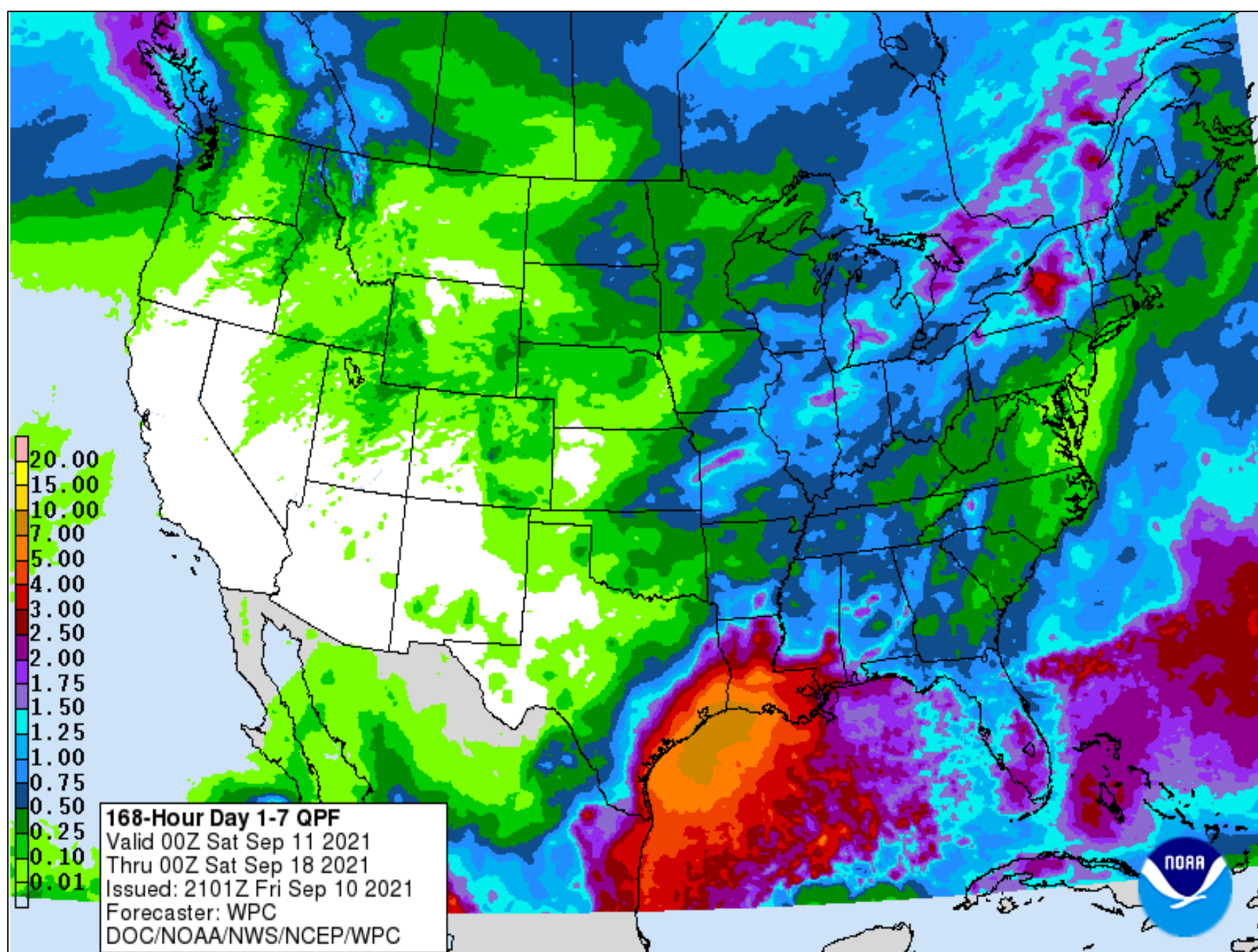
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WPC 7-day Precipitation Forecast

Sat Sep 11-18, 2021



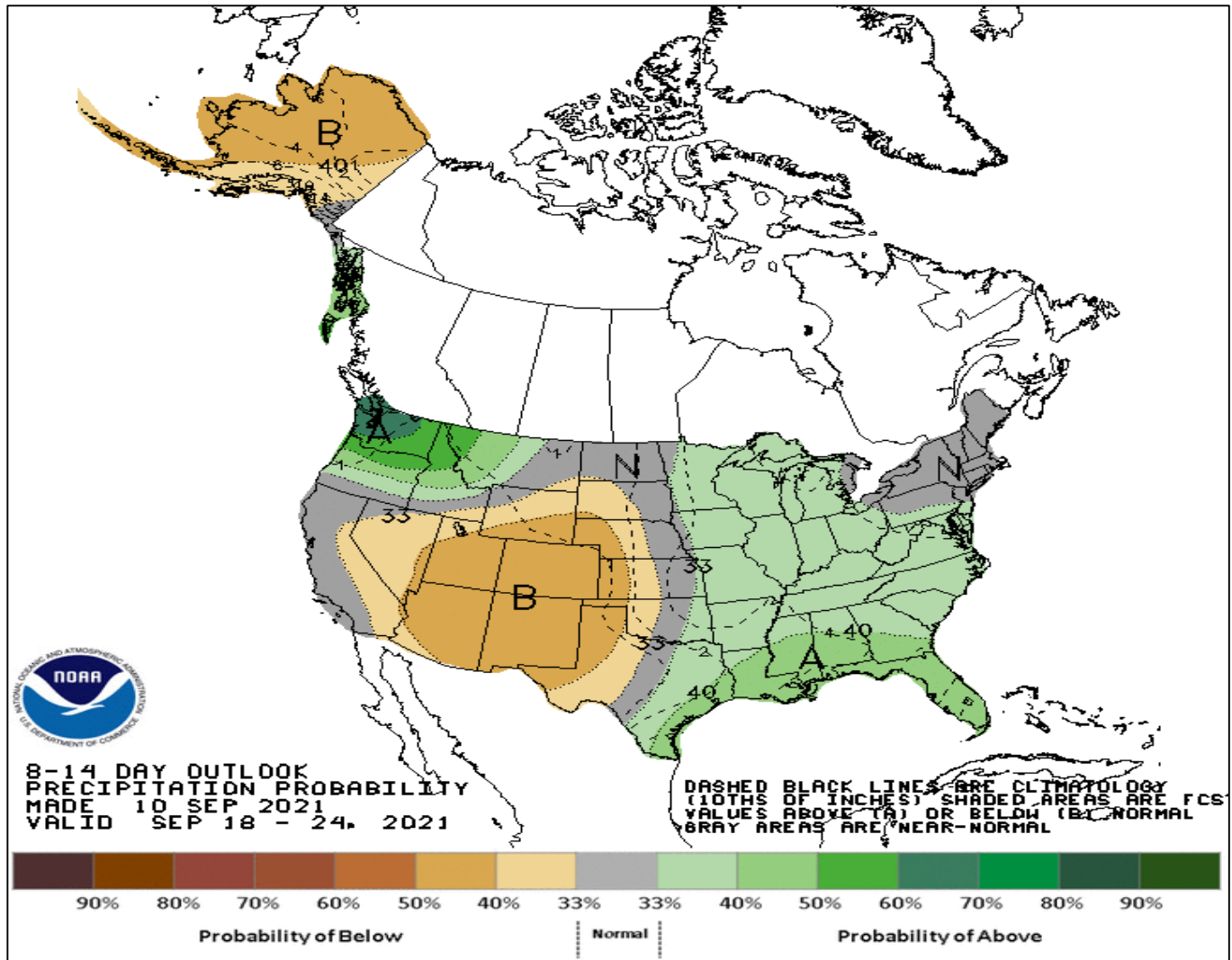


Drought Briefing

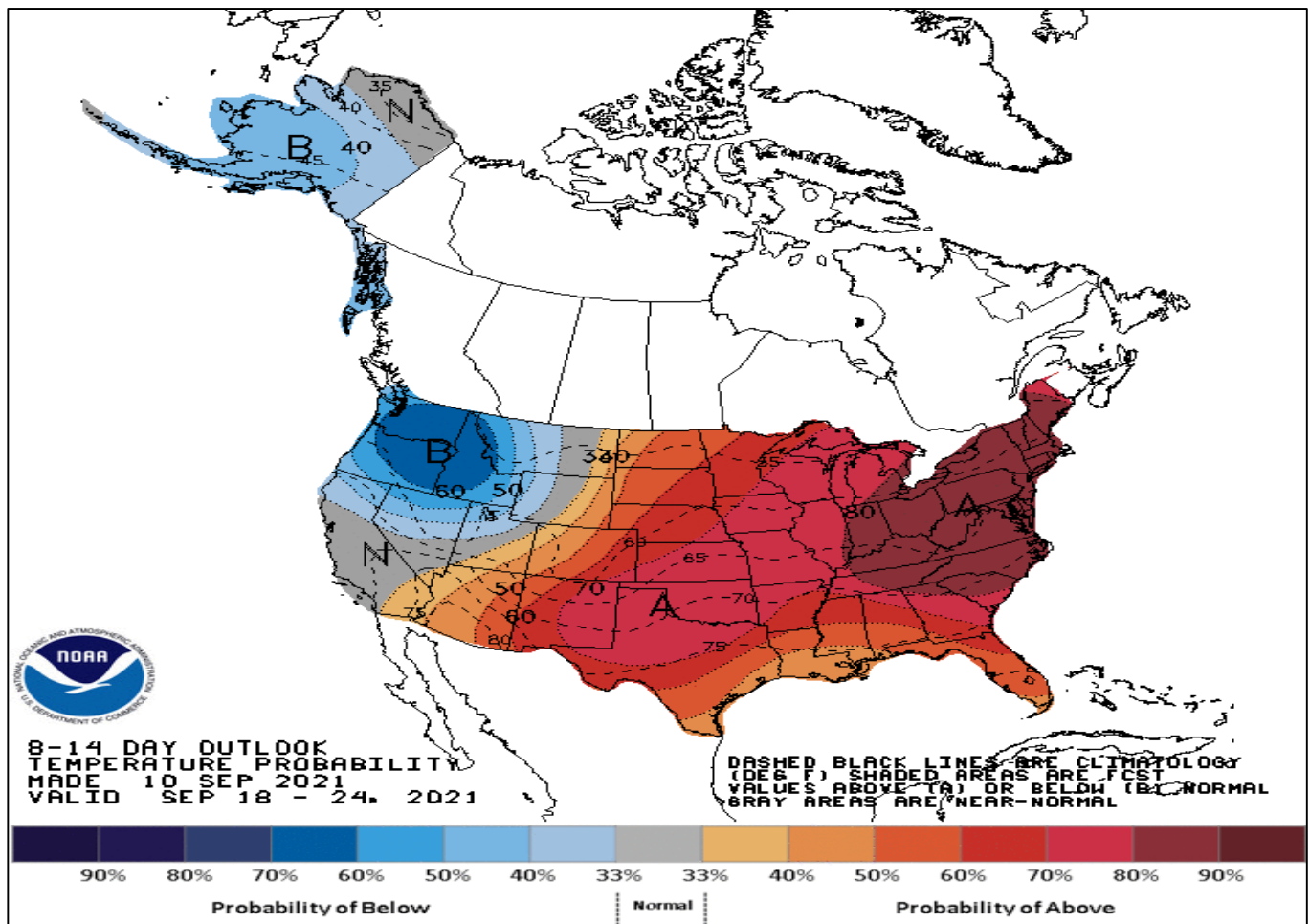
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CPC Week 2 Outlooks for Sep 18-24

Precipitation



Temperature



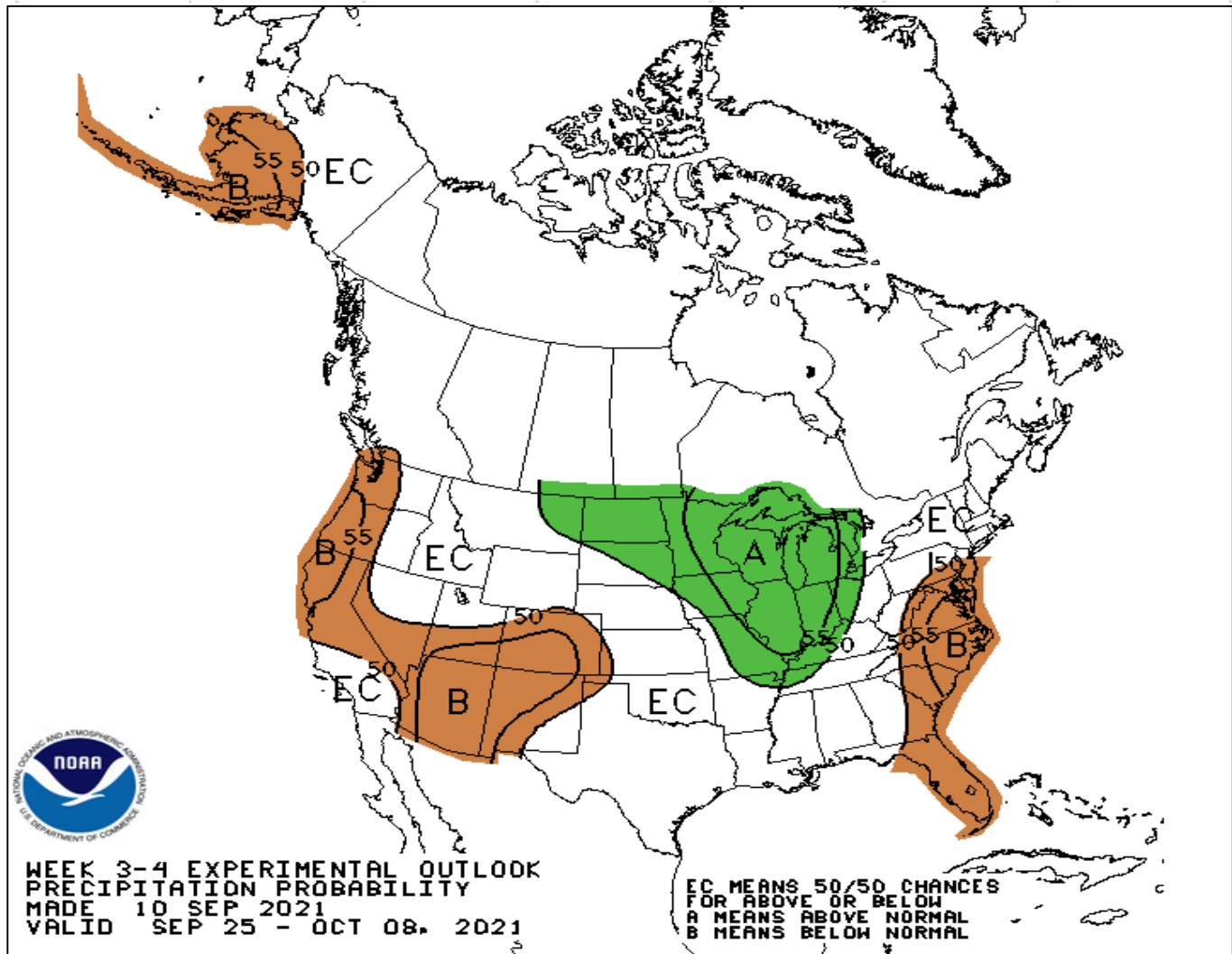


Drought Briefing

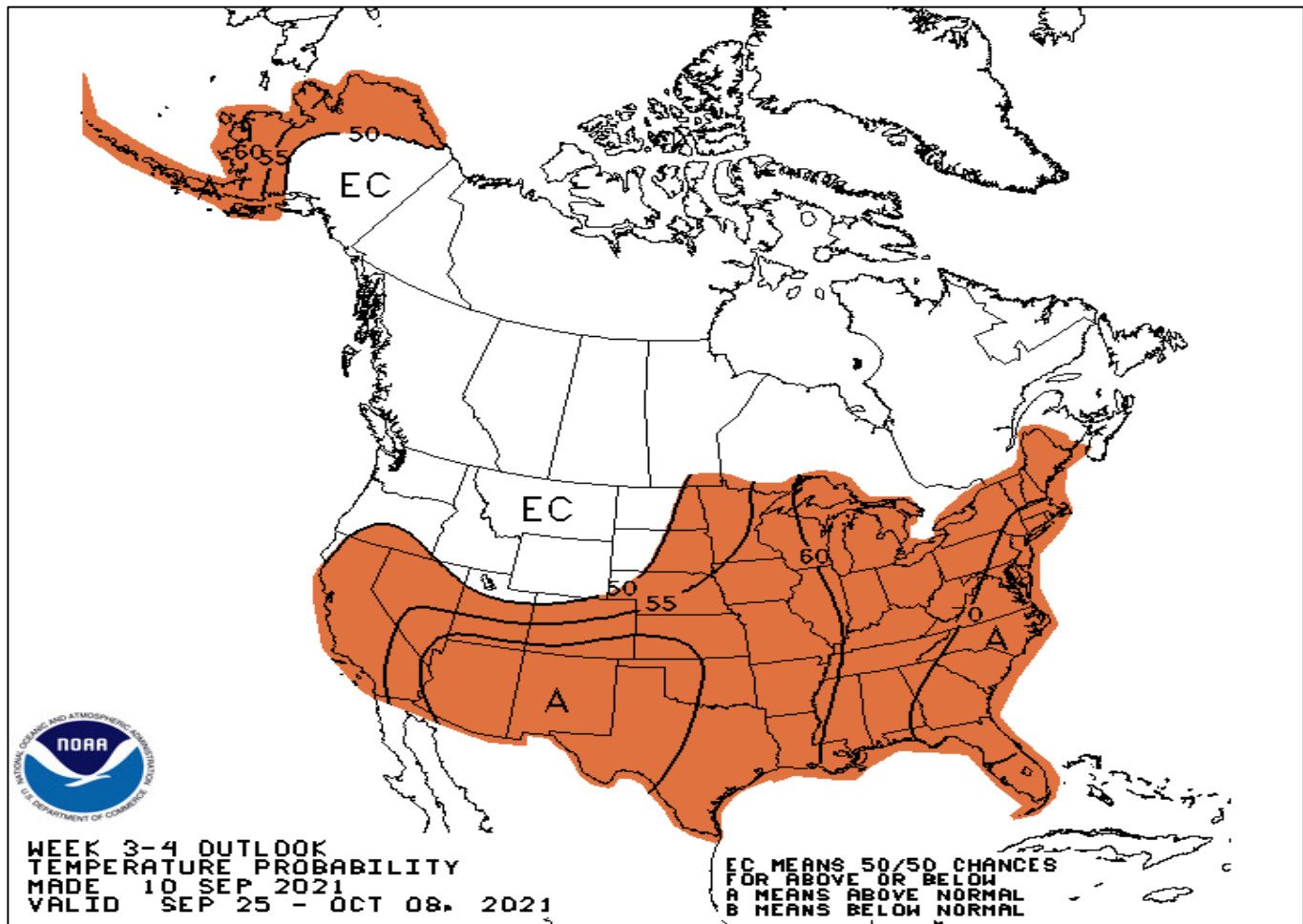
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CPC Week 3-4 Outlooks for Sep 25 – Oct 8, 2021

Precipitation



Temperature



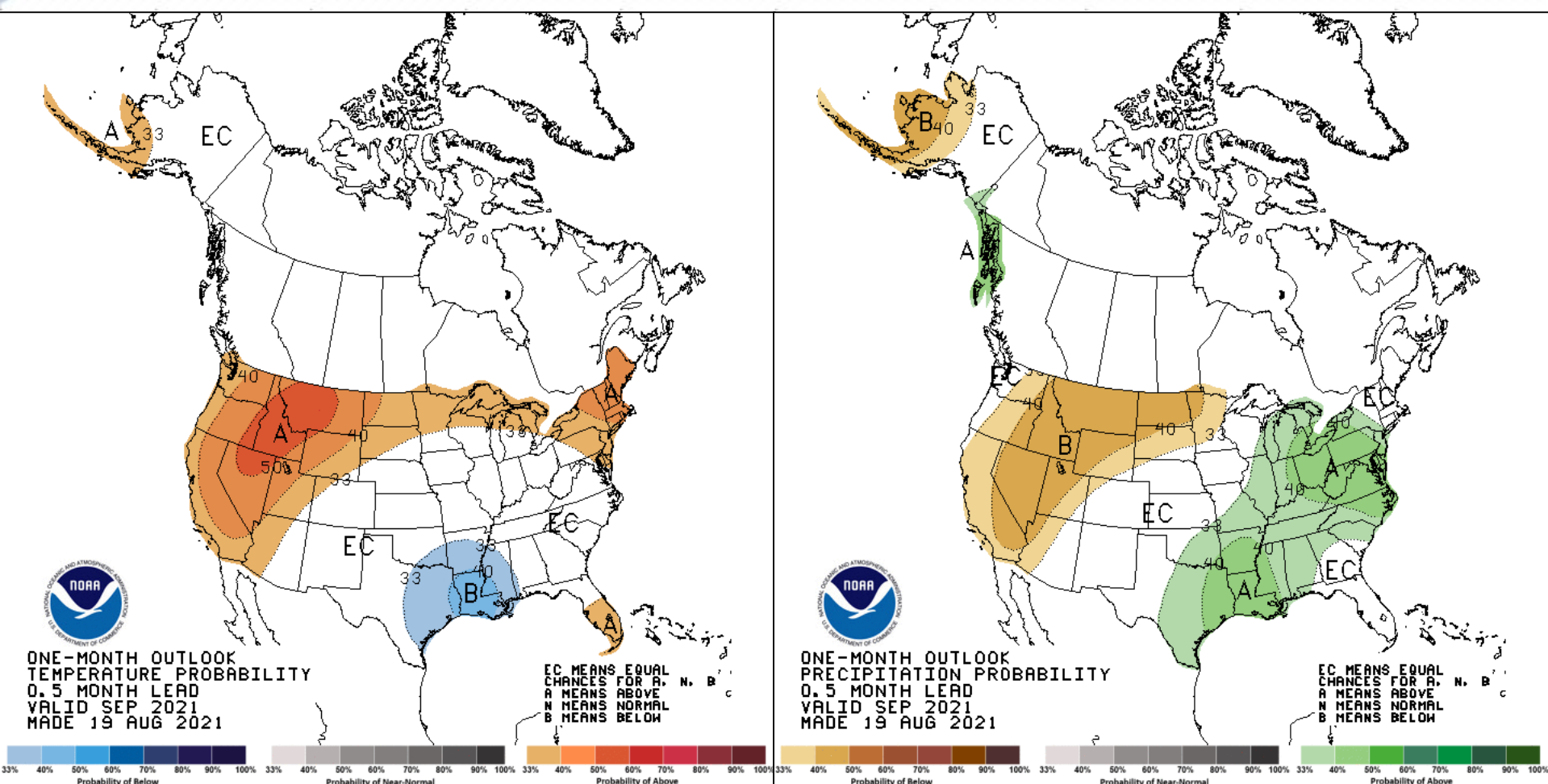


Drought Briefing

9/10/2021

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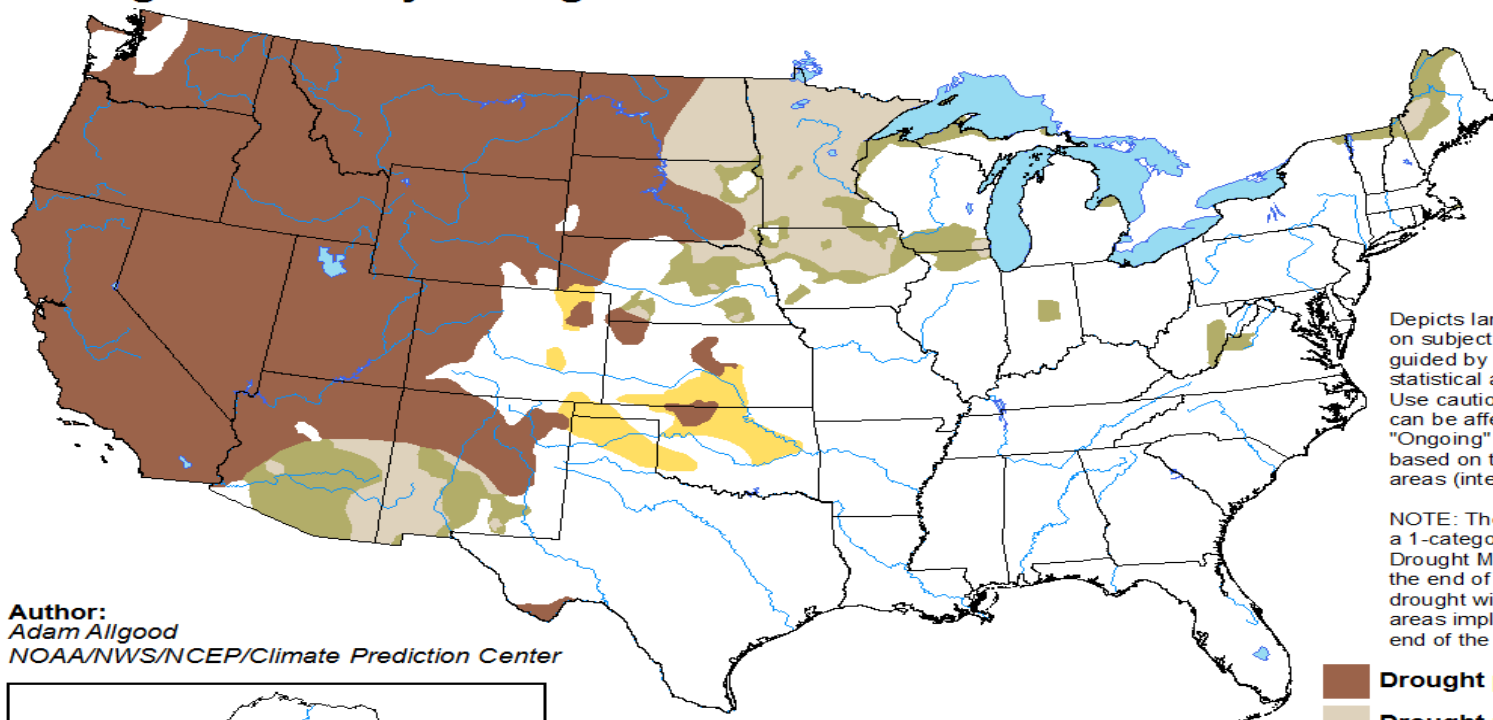
CPC Monthly Outlooks for September



U.S. Monthly Drought Outlook

Drought Tendency During the Valid Period

Valid for September 2021
Released August 31, 2021



Author:
Adam Allgood
NOAA/NWS/NCEP/Climate Prediction Center

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).

- Drought persists
- Drought remains but improves
- Drought removal likely
- Drought development likely



<http://go.usa.gov/3eZGd>

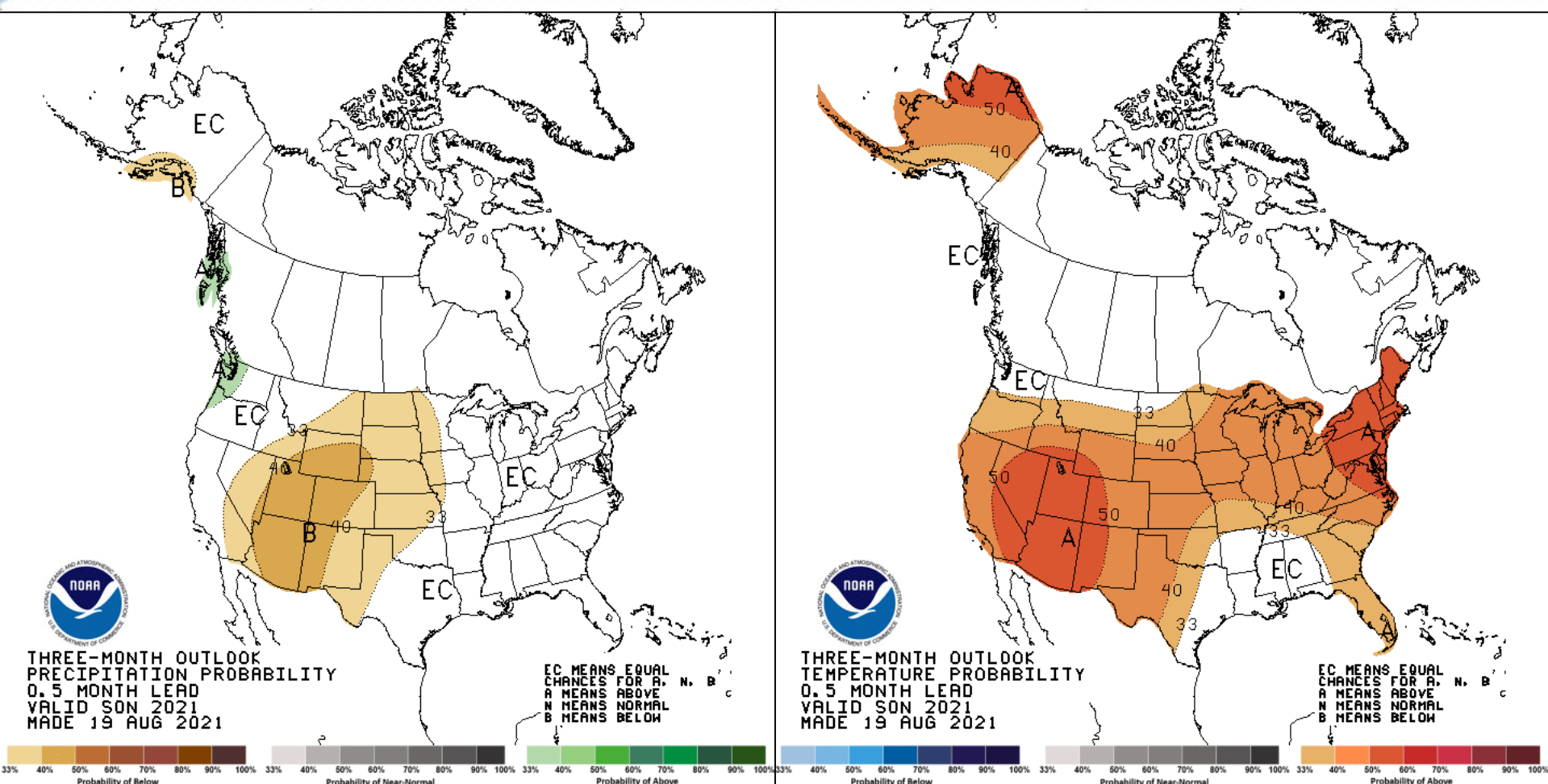


Drought Briefing

9/10/2021

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CPC Seasonal Outlook for Sep-Oct-Nov

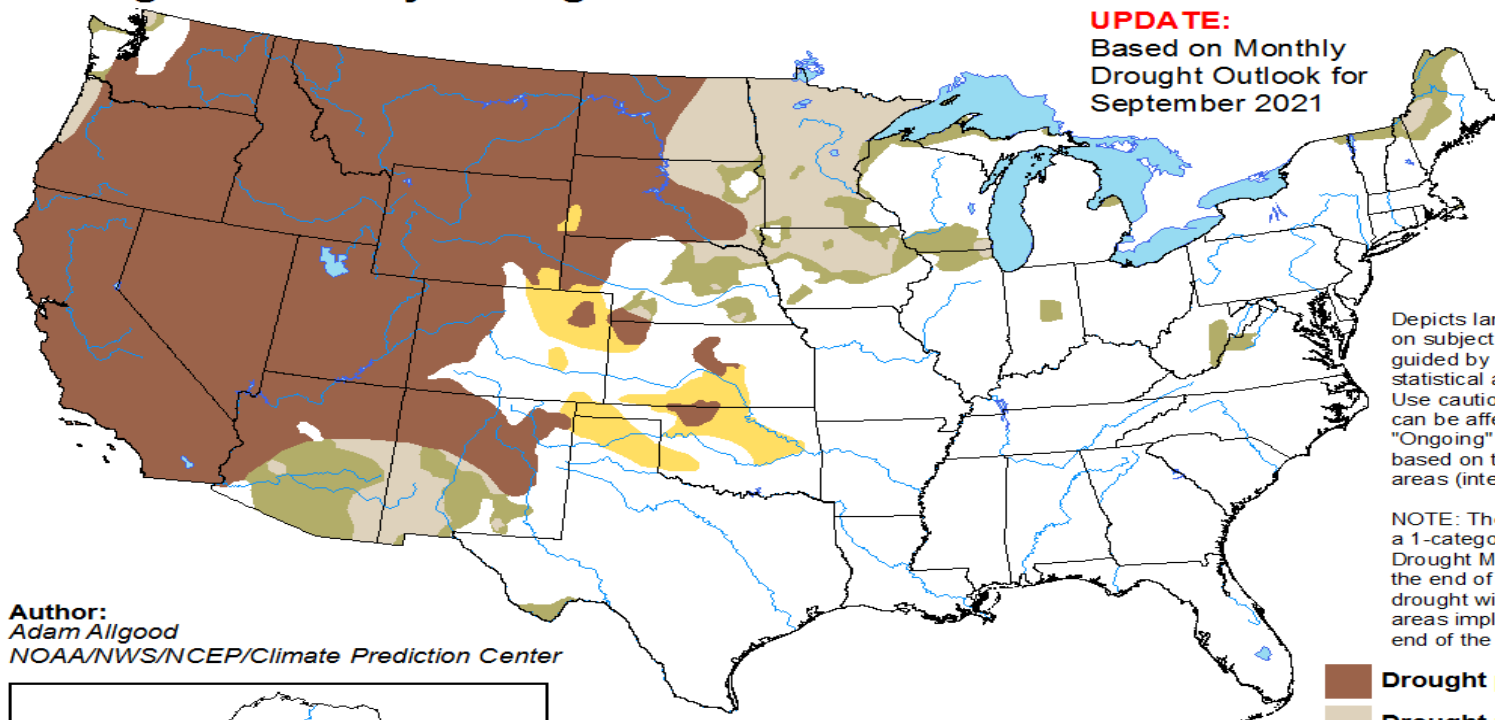


U.S. Seasonal Drought Outlook

Drought Tendency During the Valid Period

Valid for September 1 - November 30, 2021
Released August 31, 2021

UPDATE:
Based on Monthly
Drought Outlook for
September 2021



Author:
Adam Allgood
NOAA/NWS/NCEP/Climate Prediction Center

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).

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- Drought remains but improves
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<http://go.usa.gov/3eZ73>



Drought Briefing

9/10/2021

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Summary

- Current drought conditions...trending drier the last 4 weeks with localized exceptions
- Generally dry weather during the last week
- Warmer weather likely into next week with some rain, bit not significant enough to seriously impact drought conditions.
- Hydro outlook/trends...little change to slow fall
- Fire weather outlook/trends...no issues currently anticipated
- Other info...none.

Partners

National Drought Mitigation Center - <https://drought.unl.edu/>

National Integrated Drought Information System - <https://www.drought.gov/drought/>

USDA Climate Hubs - <https://www.climatehubs.oce.usda.gov/hubs/midwest>

US Forest Service - <https://www.wfas.net/>

US Geological Survey - <https://waterwatch.usgs.gov/>

Midwestern Regional Climate Center - <https://mrcc.illinois.edu/>

High Plains Regional Climate Center - <https://hprcc.unl.edu/>

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