

MAC-T Monthly Call

Midwest Agriculture and Climate Team

Dec, 4 2019

For more information:

Dennis.todey@ars.usda.gov

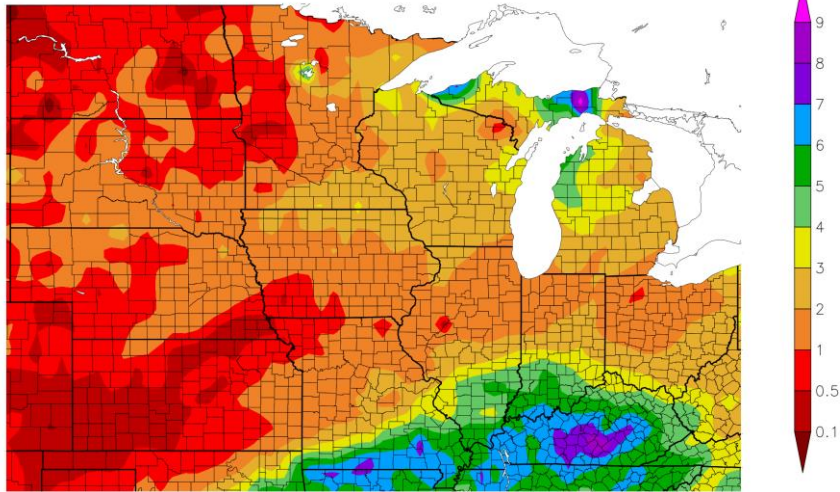
Charlene.Felkley@ars.usda.gov



Midwest Climate Hub

U.S. DEPARTMENT OF AGRICULTURE

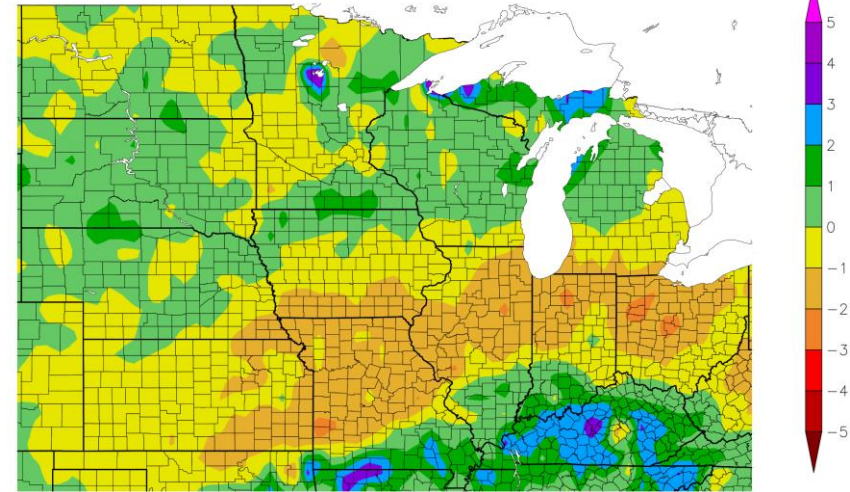
Precipitation (in)
11/3/2019 – 12/2/2019



Generated 12/3/2019 at HPRCC using provisional data.

NOAA Regional Climate Centers

Departure from Normal Precipitation (in)
11/3/2019 – 12/2/2019

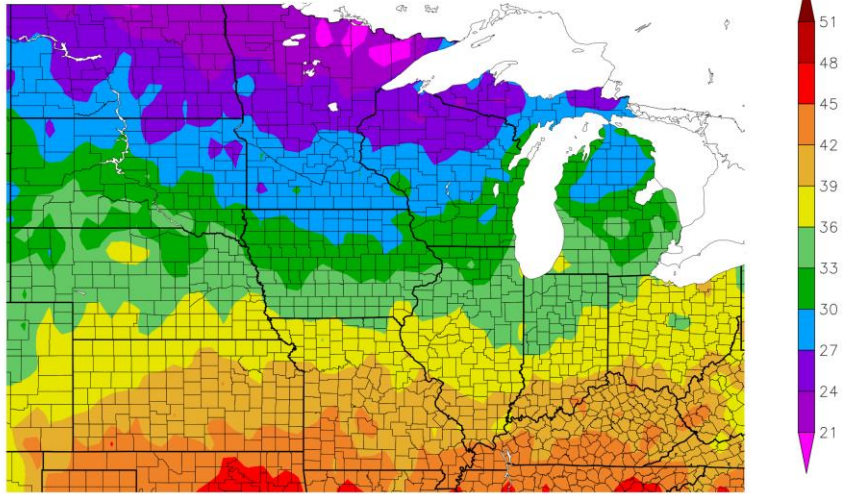


Generated 12/3/2019 at HPRCC using provisional data.

NOAA Regional Climate Centers

- Drier than average (more than 50% in some places – not pictured) in band from KS to OH.
- Wetter than avg. in locations with big storms from SD to WI.

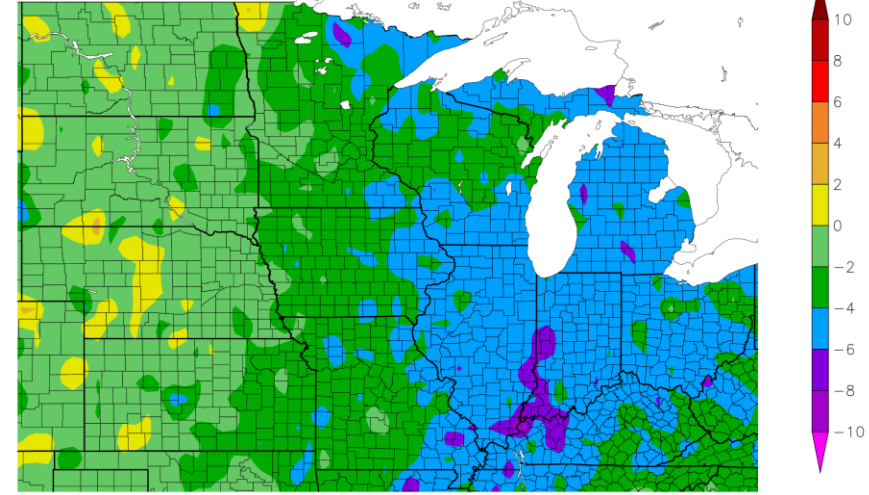
Temperature (F)
11/3/2019 – 12/2/2019



Generated 12/3/2019 at HPRCC using provisional data.

NOAA Regional Climate Centers

Departure from Normal Temperature (F)
11/3/2019 – 12/2/2019



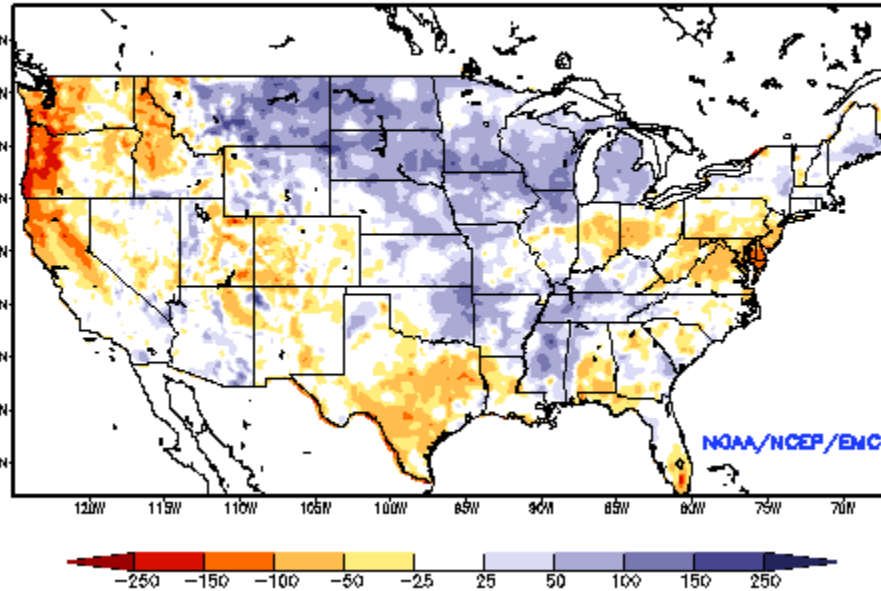
Generated 12/3/2019 at HPRCC using provisional data.

NOAA Regional Climate Centers

- Largely colder than average – especially east – up to 4-8 F below avg.
- Plains states closer to avg.

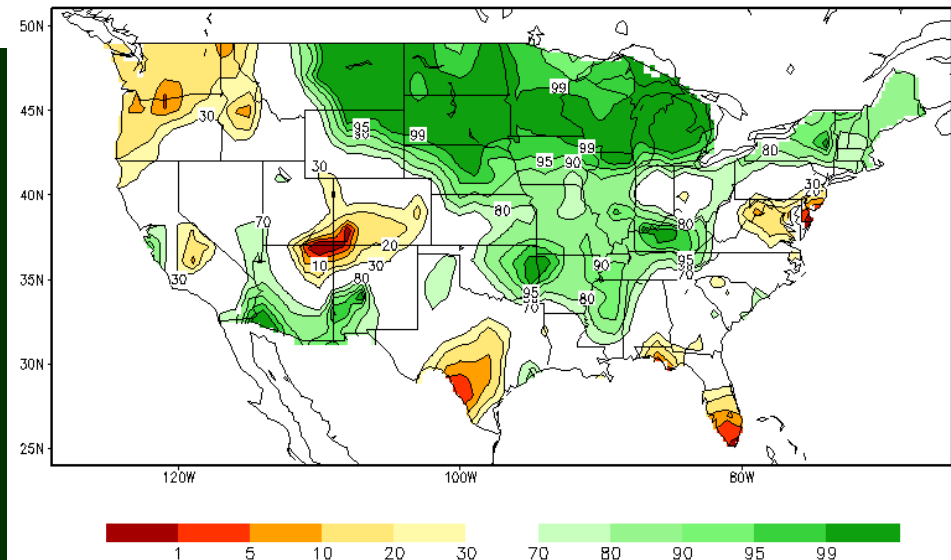
Soil Moisture

Ensemble-Mean - Current Total Column Soil Moisture Anomaly (mm)
NCEP NLDAS Products Valid: NOV 28, 2019



- Still wetter than average soils from MT to MI.
- Some questions in eastern corn belt about status.
- Wettest areas still 99th percentile.

Calculated Soil Moisture Ranking Percentile
DEC 02, 2019

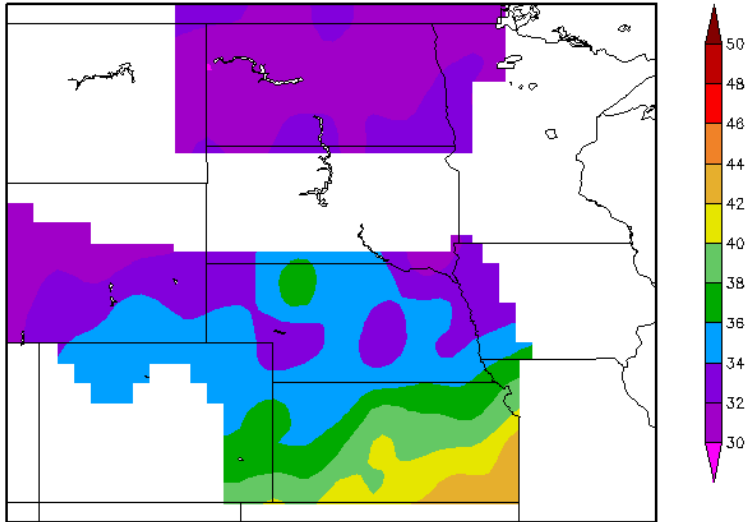


<http://www.emc.ncep.noaa.gov/mmb/nldas/drought/>

http://www.cpc.ncep.noaa.gov/products/Soilmst_Monitoring/US/Soilmst/Soilmst.shtml#

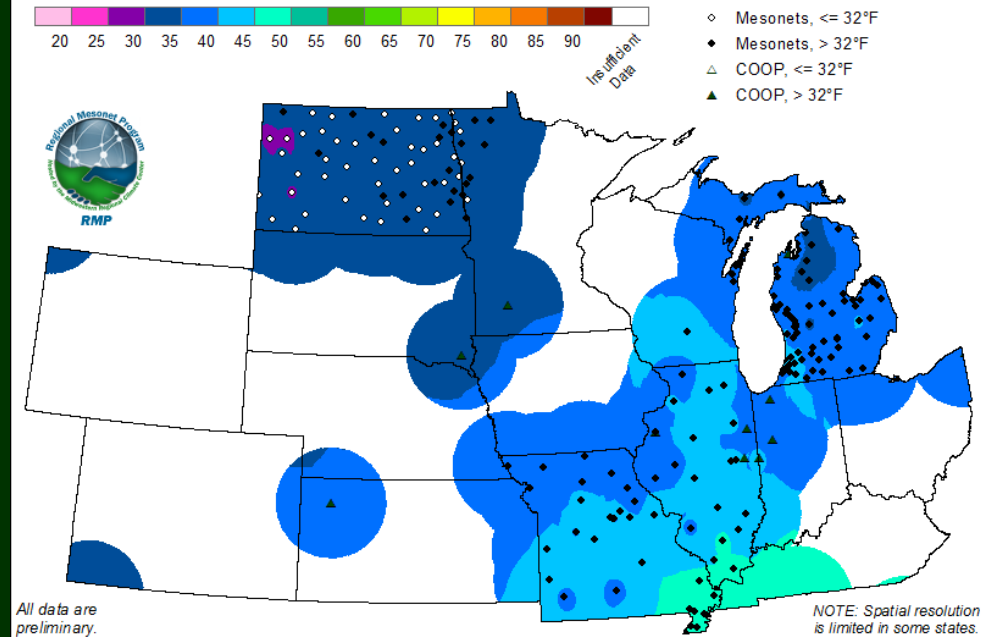
Soil Temperature

Soil Temperature (F at 4 inches)
12/2/2019 - 12/2/2019

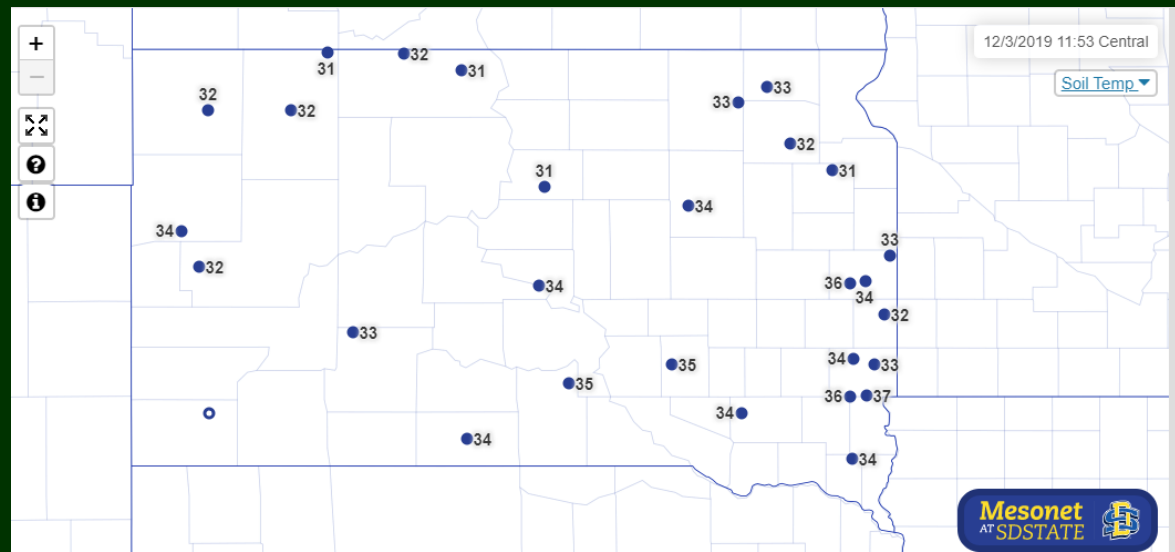


High Plains Regional Climate Center
Generated 12/3/2019 using AWDN data.

4" Soil Temperature (°F) (Bare) 24-Hour Period Through 12/1/2019



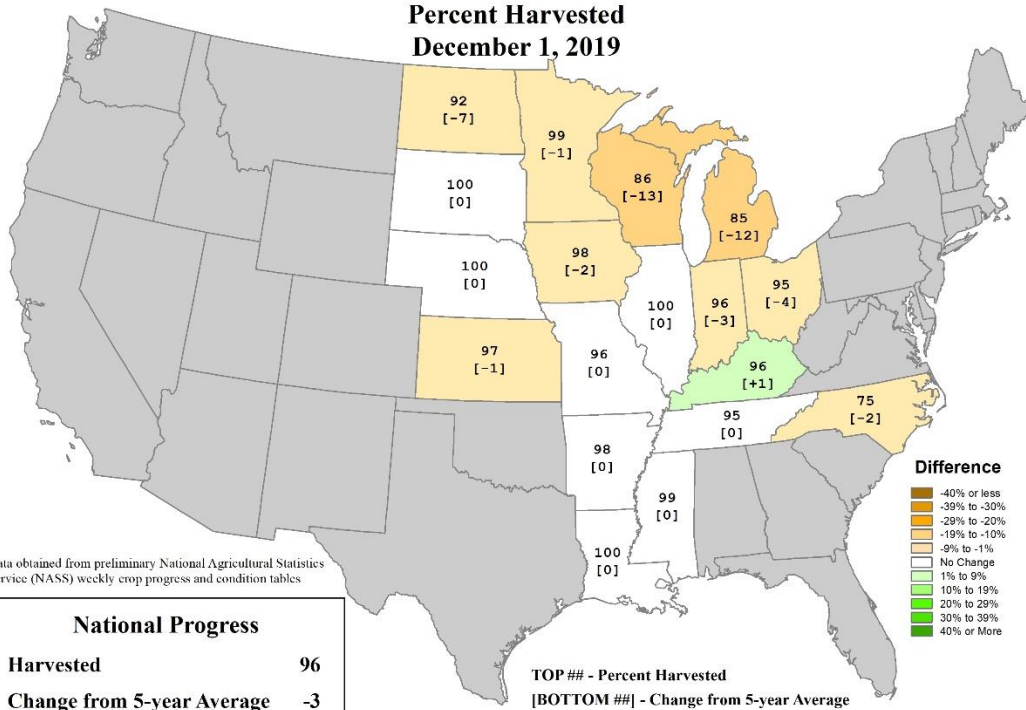
- Frozen soils in the Dakotas and parts of MN.
- Wet soils buffering other areas.



<https://mrcc.illinois.edu/RMP/currentMaps.html>
<https://hprcc.unl.edu/maps.php?map=AWDNMaps>
<http://climate.sdstate.edu>

U.S. Soybeans Progress

Percent Harvested
December 1, 2019

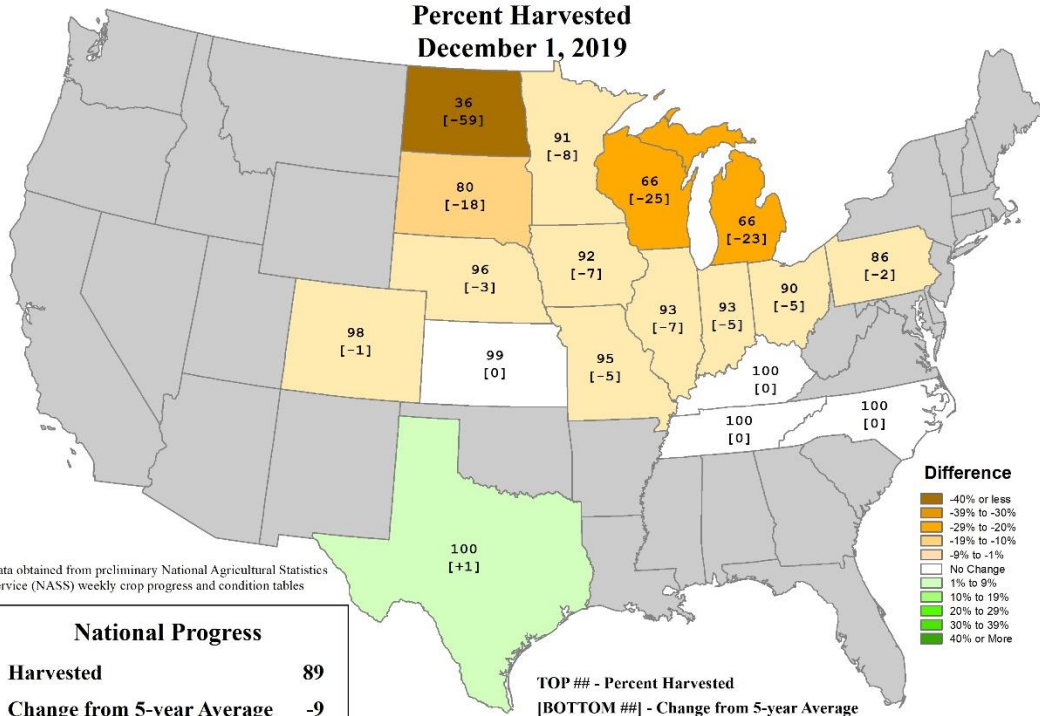


USDA NASS Crop Progress Soybean

- Soybeans harvested 96% nationally (up 2 from last week. Still some places in the 80s (WI/MI).
- Last soybean report for the year.

U.S. Corn Progress

Percent Harvested
December 1, 2019



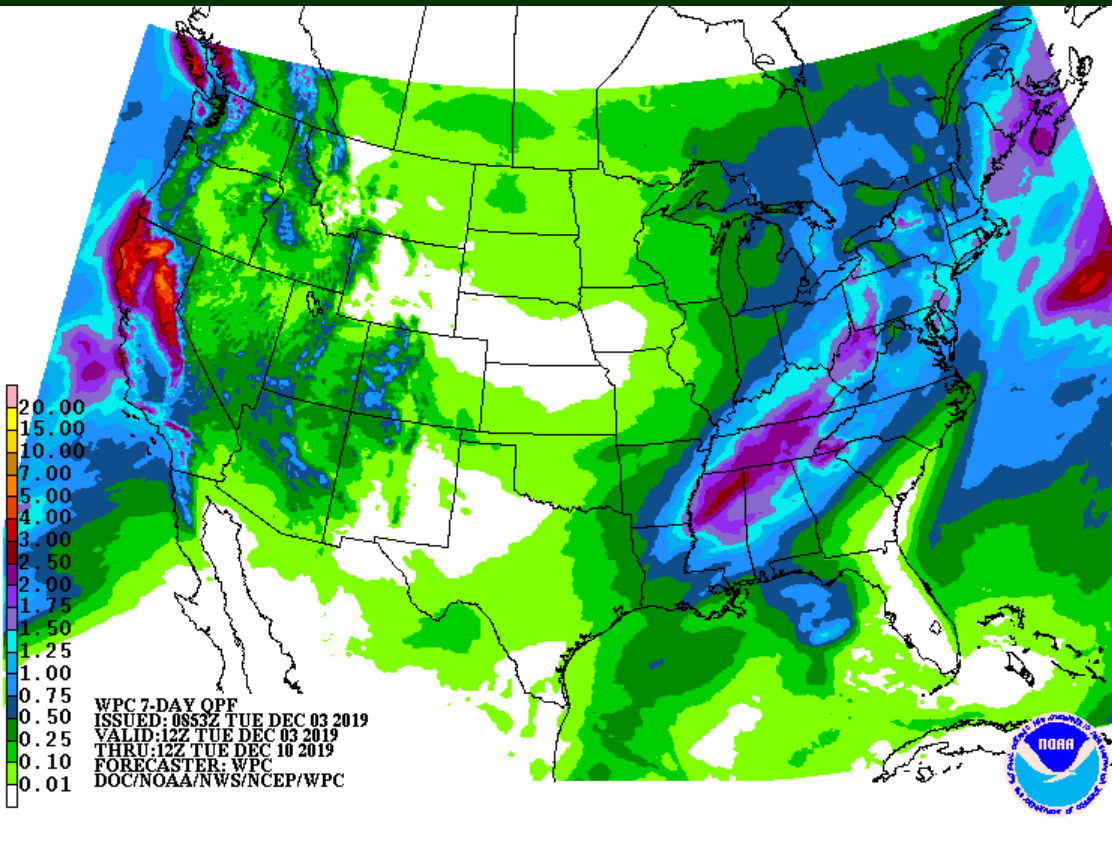
USDA NASS Crop Progress Corn

- Corn harvested 89% nationally (up 3 from last week. Still some places in the 60s (WI/MI).
- ND still at 36% - up 6% from last week
- Corn report will continue until 95% or holidays.
- Question on how many acres sit until next spring.....

Assorted AG Issues

- Harvest slow progress, especially north.
- Snow has fallen on unharvested crops.
- Propane issues still exist?
- Still wet soils.

1-7 Day Precip

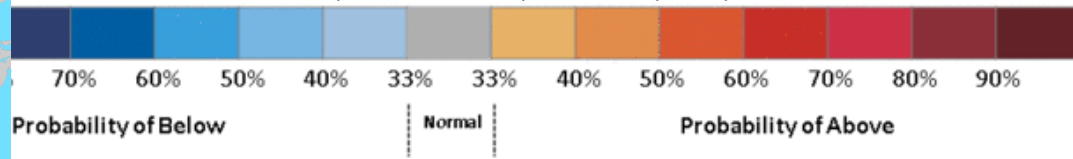
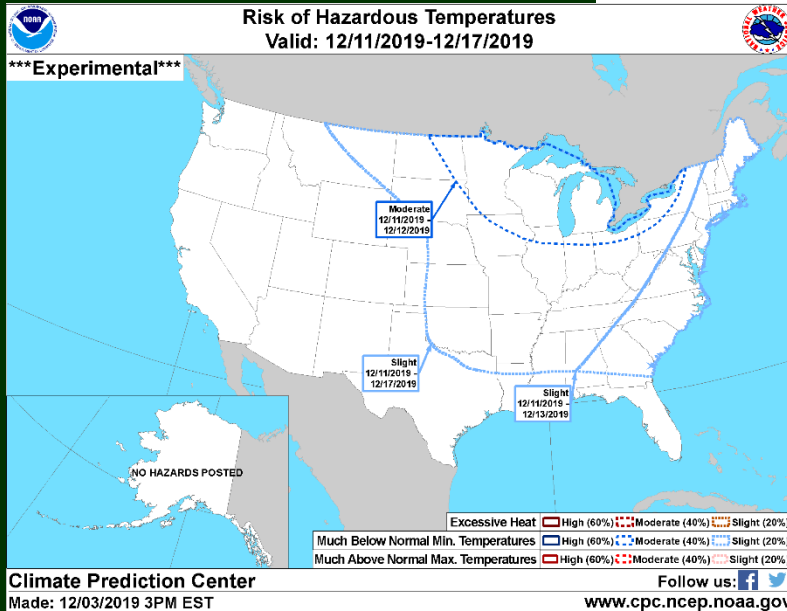
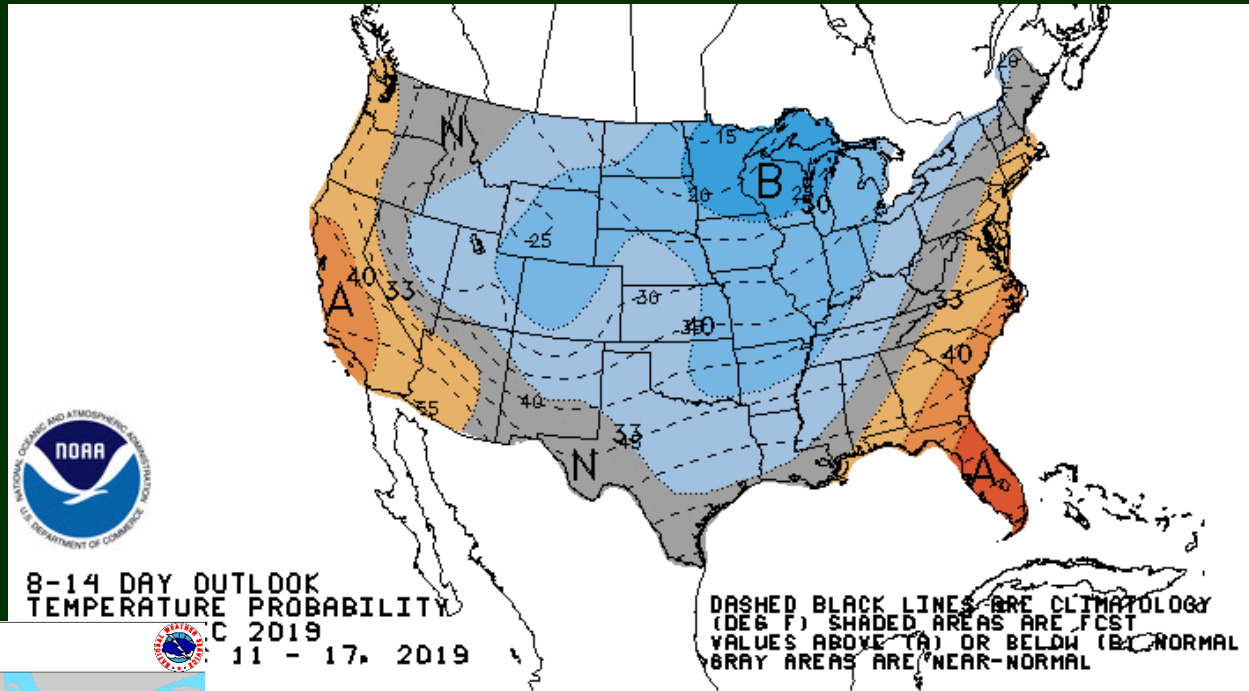


Fairly quiet regionally except for the east. Only light amounts.

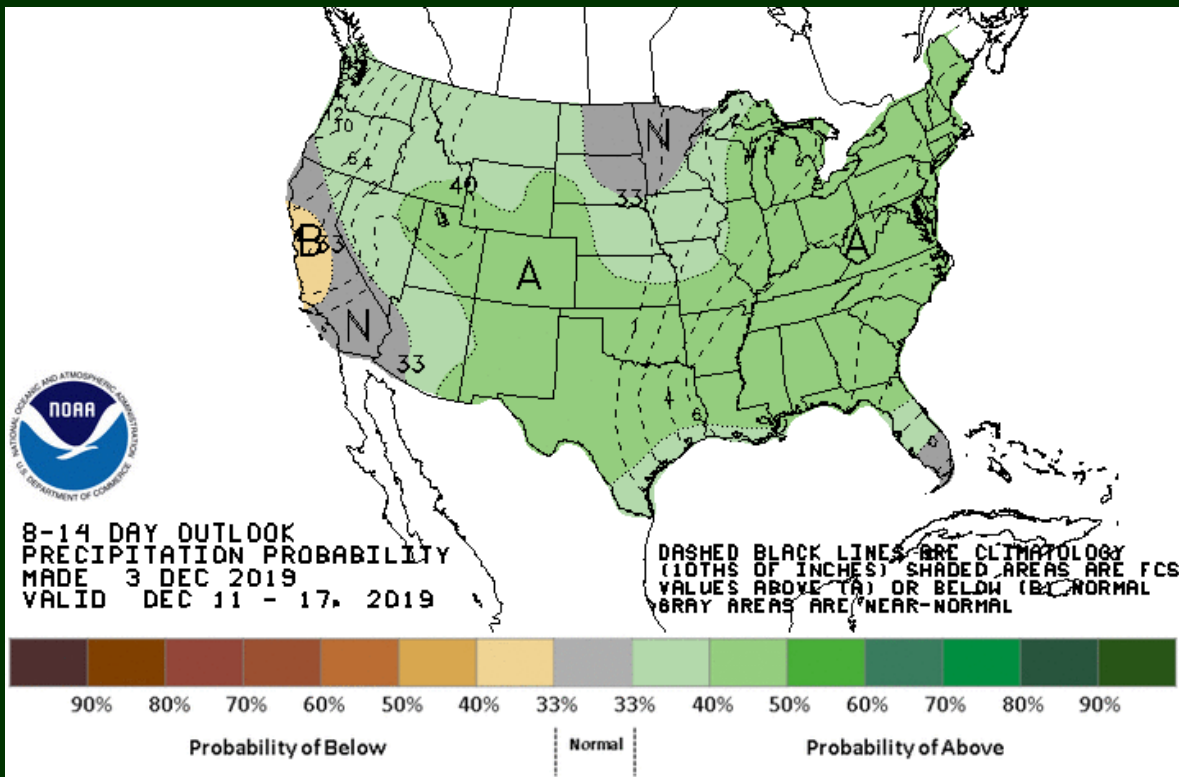
Maybe up to 1"+ in the far eastern corn belt.

Temperature Outlook

- Big flip in the 8-14 day outlook.
- Cold period likely coming mid-month.
- Some risk of extreme cold.



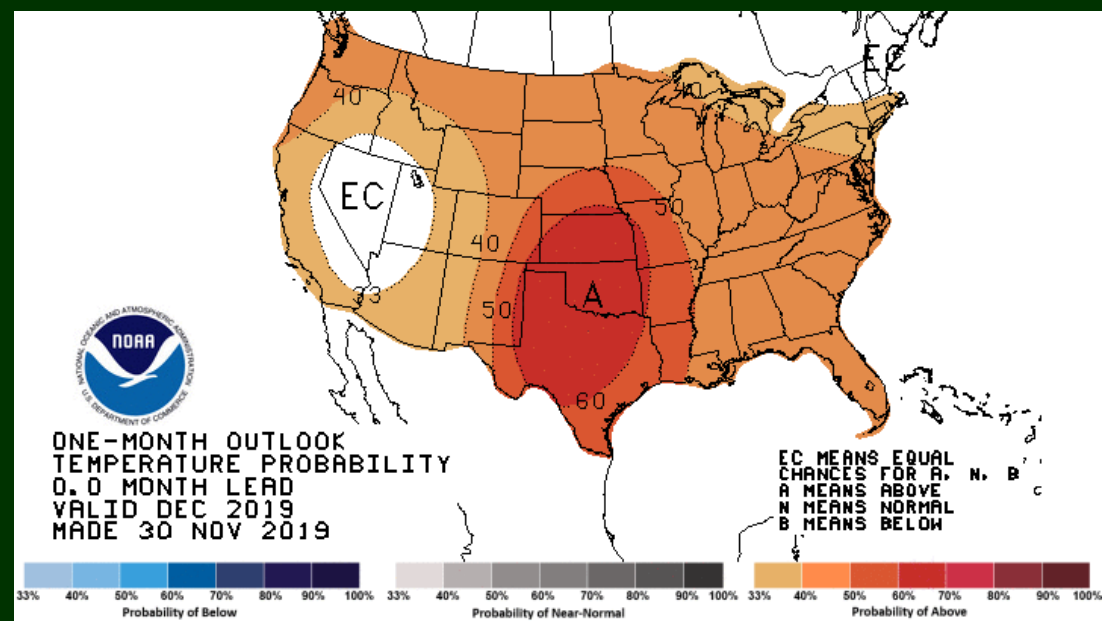
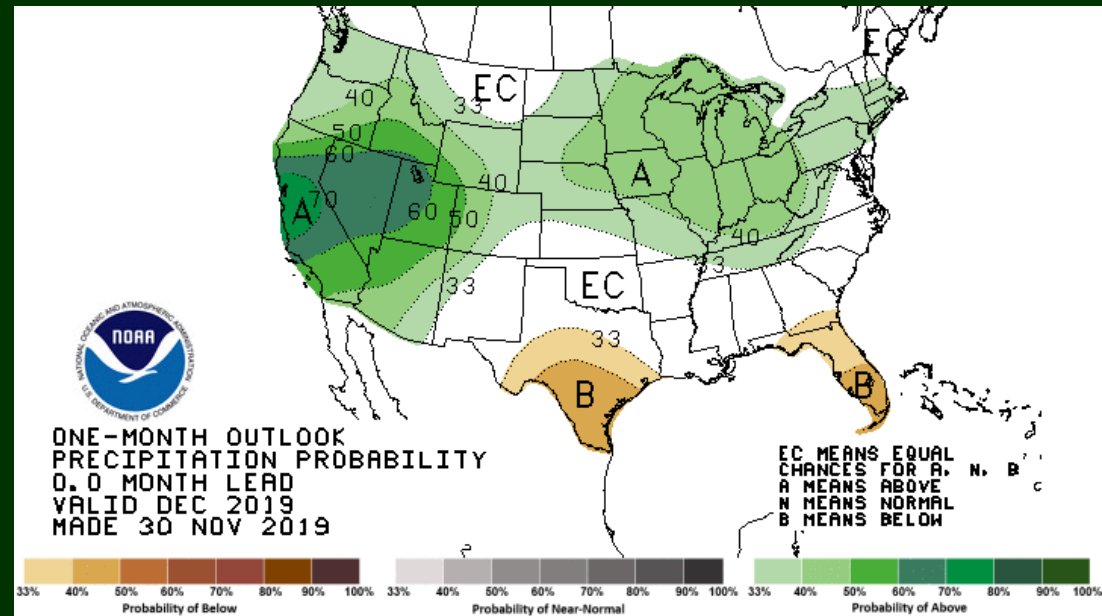
Precipitation Outlook



- More active pattern with higher chances for precipitation still in play.
- With colder temps, this is more likely to fall as frozen precip.

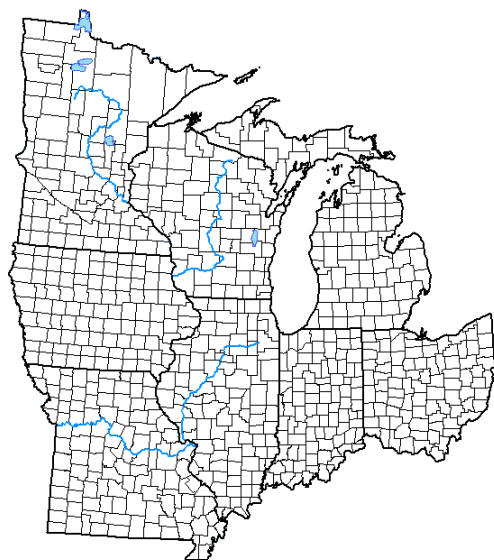
1-Month Outlook

- For the monthly outlooks:
- Slightly more likely to be wetter than avg. Pattern staying more active for the month (after this week).
- Slightly more likely warmer than avg.
- Mid-month cold period not sure will last.
- Will keep things muddy for additional harvest and livestock.



Drought in the Midwest

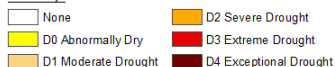
U.S. Drought Monitor USDA Midwest Climate Hub



November 26, 2019
(Released Wednesday, Nov. 27, 2019)
Valid 7 a.m. EST

	Drought Conditions (Percent Area)					
	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	100.00	0.00	0.00	0.00	0.00	0.00
Last Week 11-19-2019	100.00	0.00	0.00	0.00	0.00	0.00
3 Months Ago 08-27-2019	75.85	24.15	2.79	0.00	0.00	0.00
Start of Calendar Year 01-01-2019	99.21	0.79	0.00	0.00	0.00	0.00
Start of Water Year 10-01-2019	80.58	19.42	4.98	0.39	0.00	0.00
One Year Ago 11-27-2018	96.71	3.29	0.00	0.00	0.00	0.00

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

Brad Rippey
U.S. Department of Agriculture

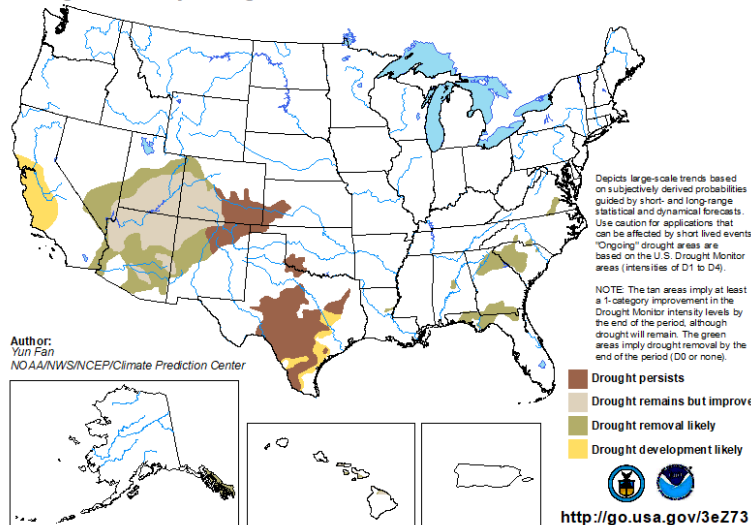


droughtmonitor.unl.edu

The Midwest remained free of drought for a third consecutive week. The only part of the Midwest experiencing abnormal dryness (D0) is southeastern Kentucky, where some lingering groundwater shortages have been reported. In contrast, Midwestern wetness has contributed to the second-slowest U.S. corn harvest in the last 25 years. On November 24, only 84% of the nation's corn had been harvested, compared to the 5-year average of 96%. The only recent year with a slower U.S. corn harvest was 2009, when 71% of the crop had been cut by November 24.

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

Valid for November 21, 2019 - February 29, 2020
Released November 21, 2019



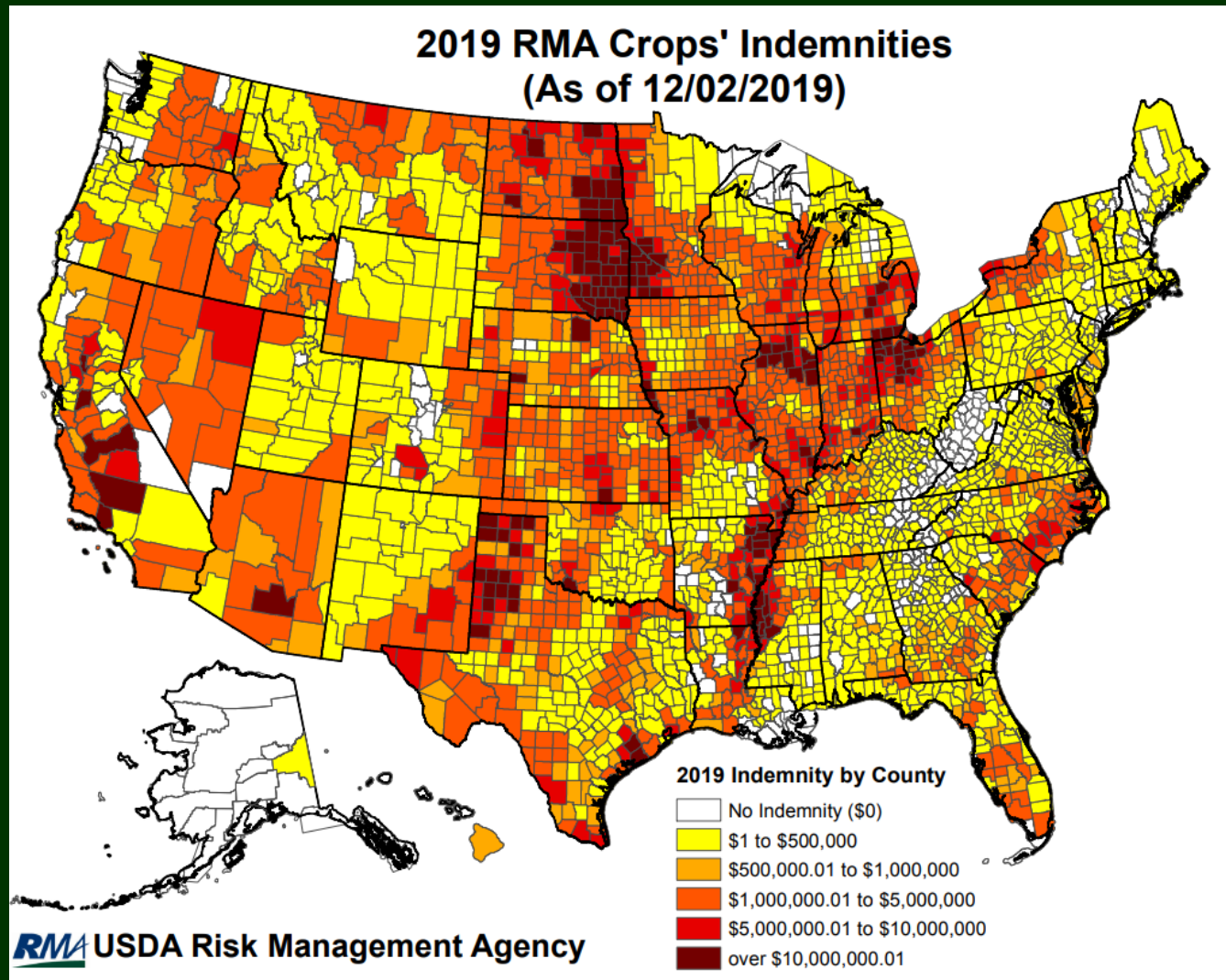
<http://droughtmonitor.unl.edu/>

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

Summary

- Harvest continues slow progress – will not complete before spring.
- Cold period coming mid-month. Not sure will last rest of month.
- Quiet precip period this week will give way to a more active situation.
- Still significant concerns for spring flooding and slow field progress.

2019 Crop Indemnities (28 Oct.)



Next MAC-T Monthly Call

Next Call? In....



January 1st is the first Wednesday...Postpone till Jan 8th?