

# MAC-T Monthly Call

## Midwest Agriculture and Climate Team

May 20, 2020

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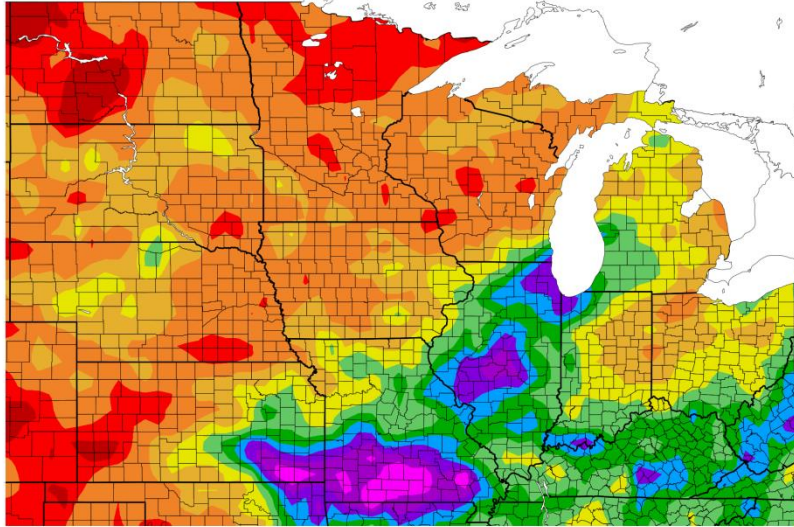


Midwest Climate Hub

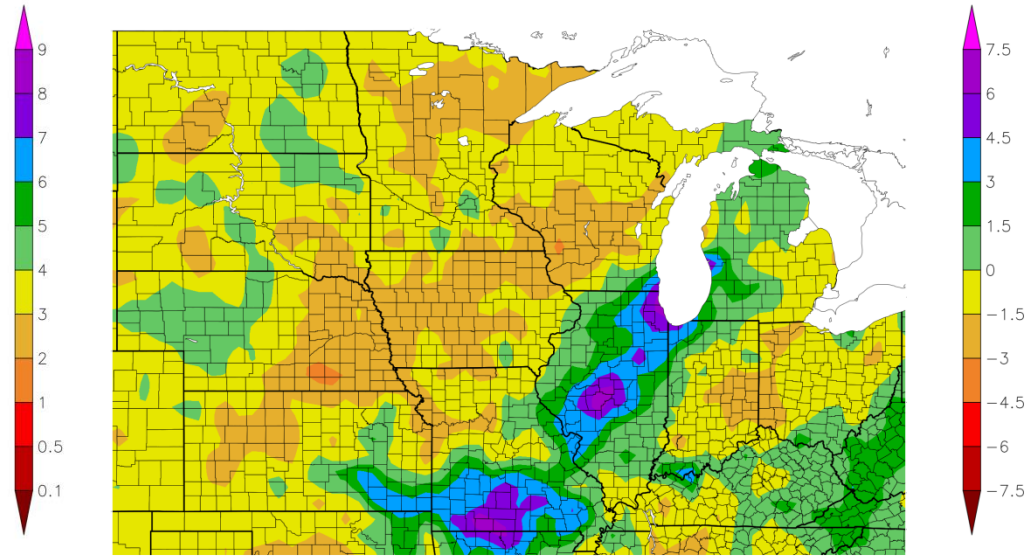
U.S. DEPARTMENT OF AGRICULTURE



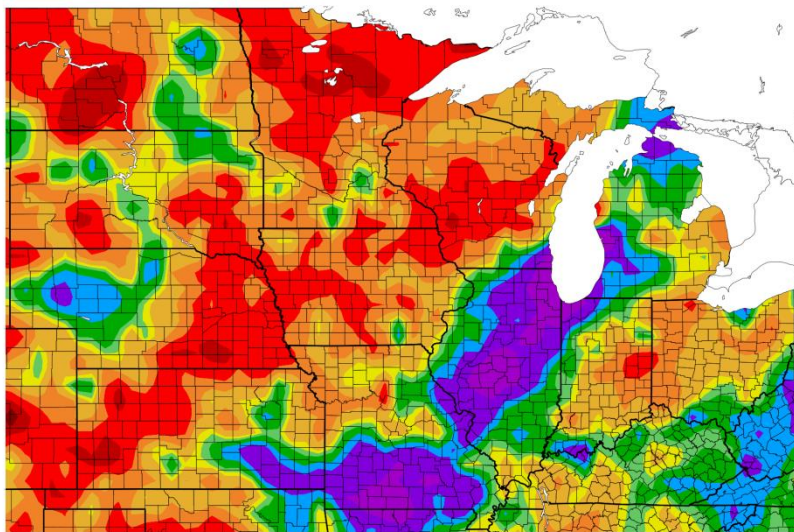
Precipitation (in)  
4/18/2020 - 5/17/2020



Departure from Normal Precipitation (in)  
4/18/2020 - 5/17/2020



Percent of Normal Precipitation (%)  
4/18/2020 - 5/17/2020

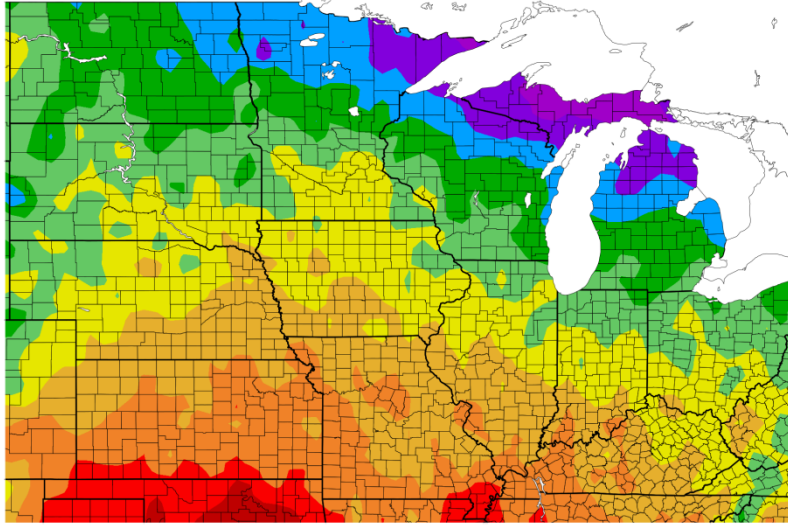


Generated 5/18/2020 at HPRCC using provisional data.

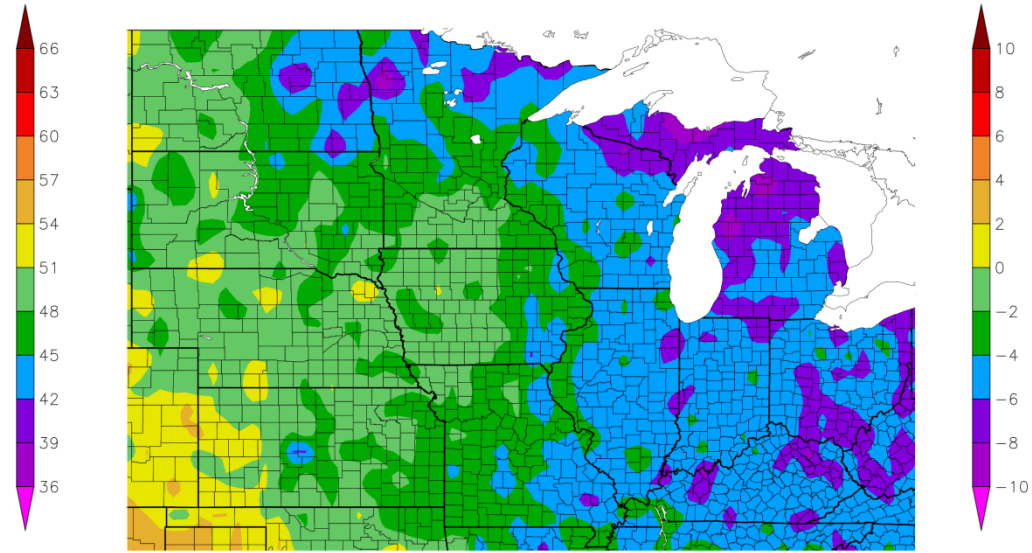
NOAA Regional Climate Centers

- Tale of haves and have nots (somewhat)
- Wet Missouri to Illinois
  - Missouri slow planting
  - Illinois may replant
- Dry to the west.
  - Not too serious in places (esp recent rain)
  - Some areas showing drought

Temperature (F)  
4/18/2020 – 5/17/2020



Departure from Normal Temperature (F)  
4/18/2020 – 5/17/2020



Generated 5/18/2020 at HPRCC using provisional data.

NOAA Regional Climate Centers Generated 5/18/2020 at HPRCC using provisional data.

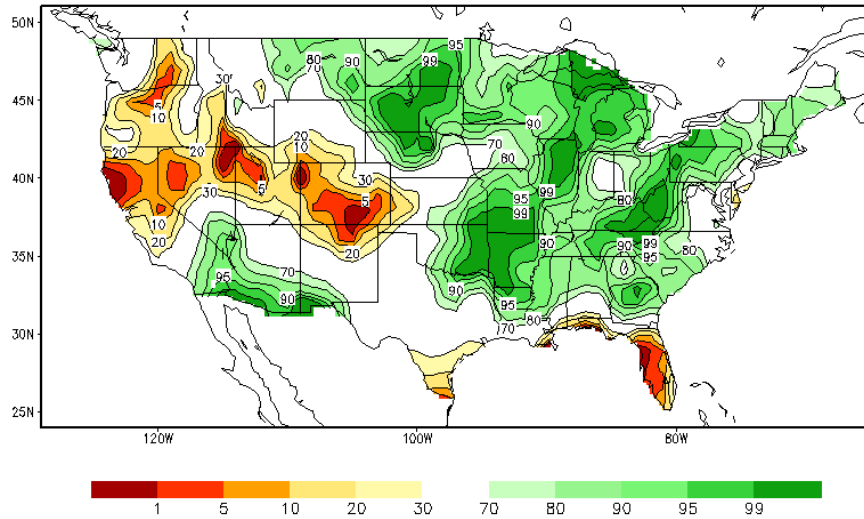
NOAA Regional Climate Centers

- Still mostly colder than average.
- Deeper to the east. 6-10F below avg.
- Plains slightly below except ND.



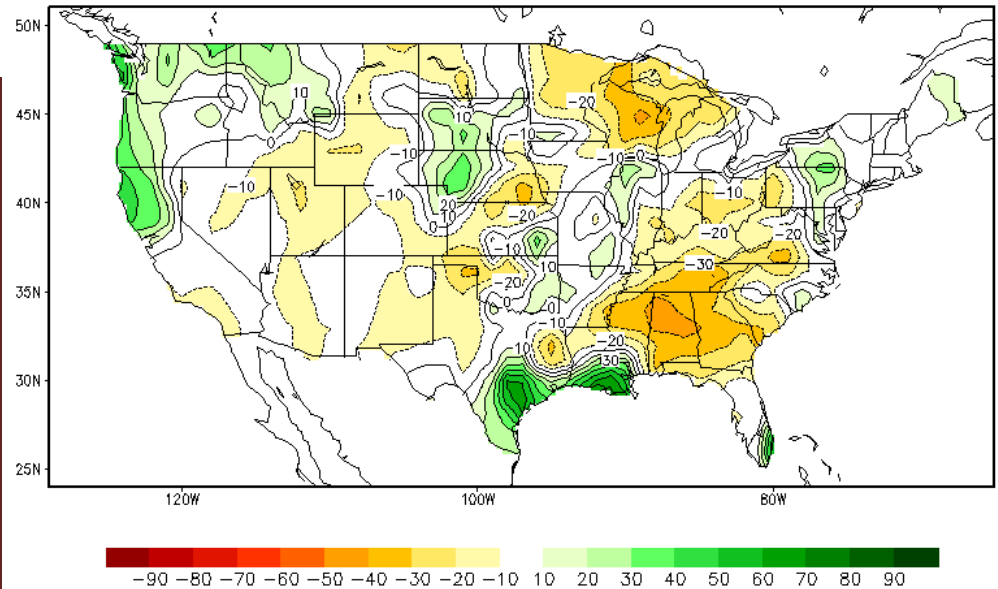
# Soil Moisture

Calculated Soil Moisture Ranking Percentile  
MAY 17, 2020



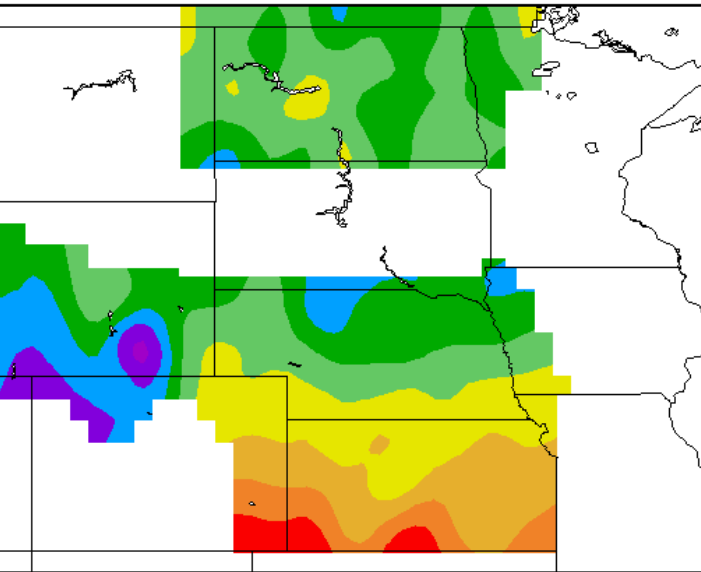
- Overall soils drying
- Central plains to Iowa less wet.
- Still likely mostly surface soils dry.

Calculated Soil Moisture Anomaly Change  
MAY 17, 2020 from APR.30



# Soil Temperature

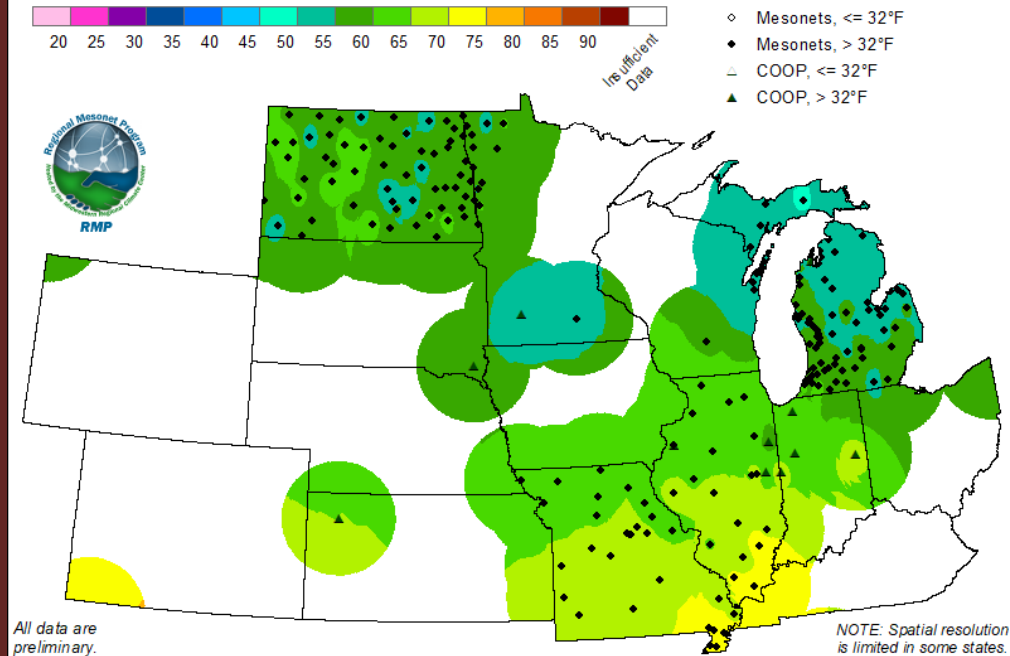
Soil Temperature (F at 4 inches)  
5/17/2020 – 5/17/2020



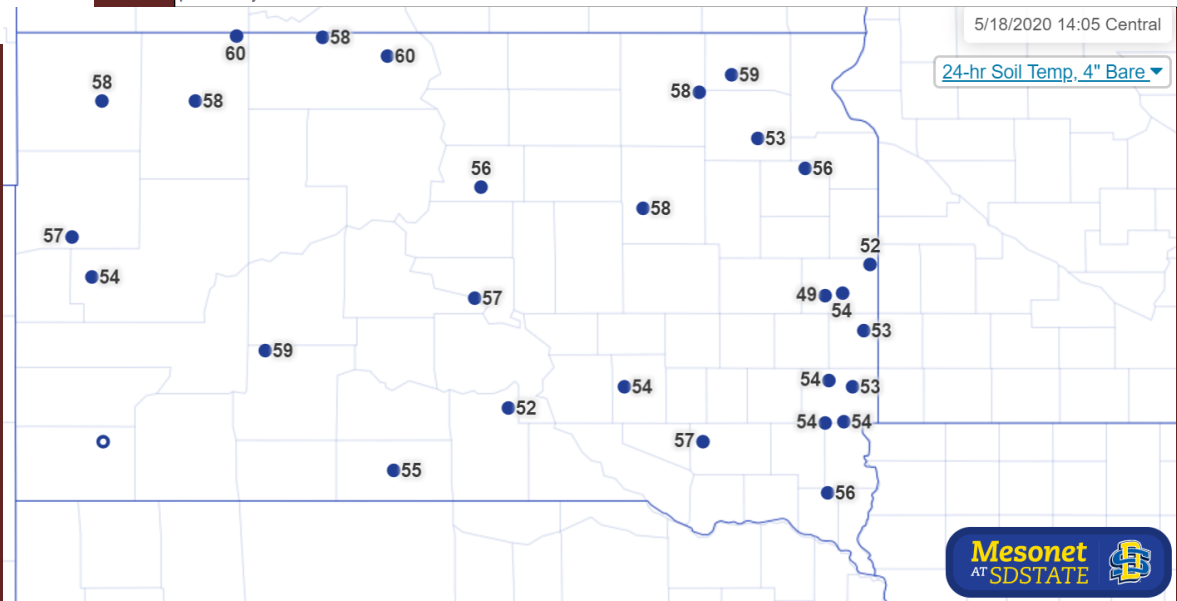
High Plains Regional Climate Center  
Generated 5/18/2020 using AWDN data.

4" Soil Temperature (°F) (Bare)

24-Hour Period Through 5/17/2020



All data are preliminary.



- Soil temps general 50s to 60s. Everyone in good shape.

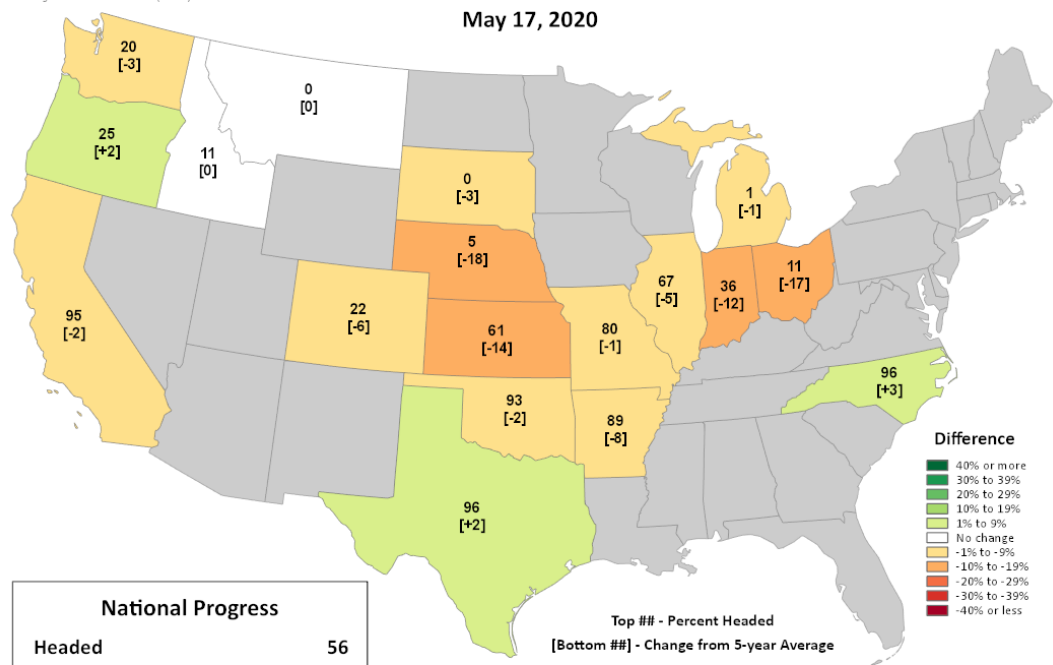
<https://mrcc.illinois.edu/RMP/currentMaps.html>  
<https://hprcc.unl.edu/maps.php?map=AWDNMaps>  
<http://climate.sdstate.edu>

# Winter Wheat Progress

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

## Percent Headed

May 17, 2020



# USDA NASS Crop Progress Winter Wheat

- Winter wheat progress a little behind 5 year avg (-6%).
- Freeze and drought impacting west
- Conditions in the east?

### National Progress

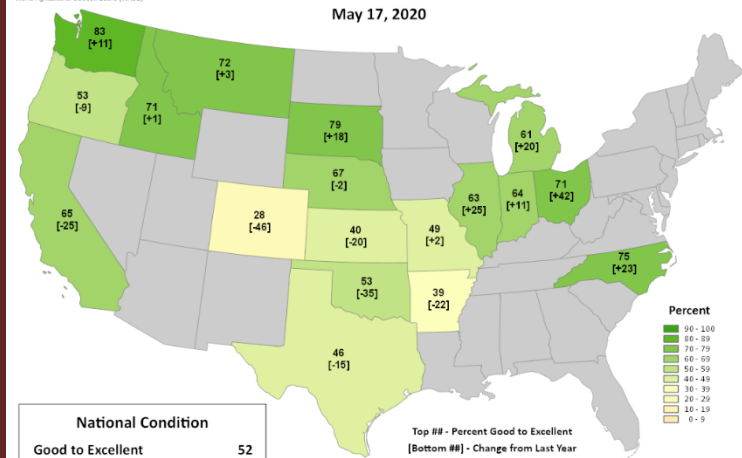
Headed 56  
Change from 5-year Average -6

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

## Winter Wheat Conditions

### Percent Good to Excellent

May 17, 2020



### National Condition

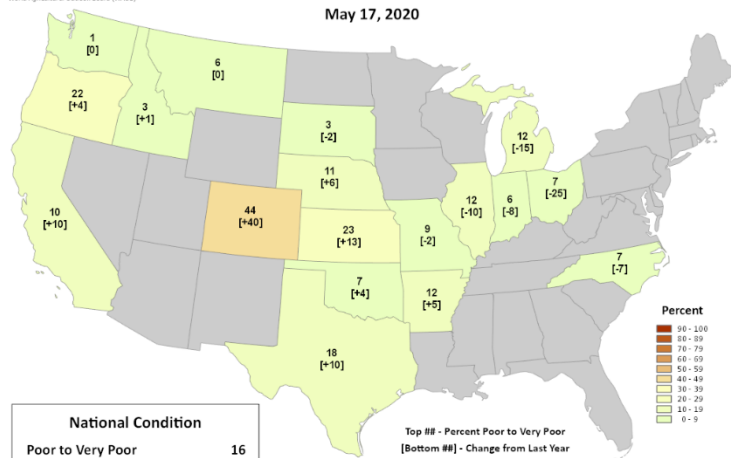
Good to Excellent 52  
Change from Last Year -14

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

## Winter Wheat Conditions

### Percent Poor to Very Poor

May 17, 2020



### National Condition

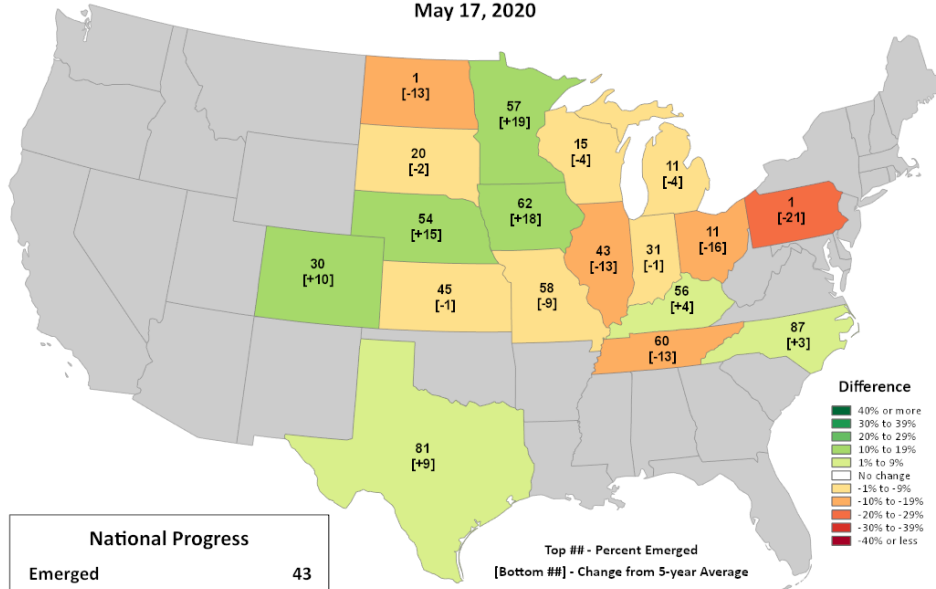
Poor to Very Poor 16  
Change from Last Year +8

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

# Corn Progress

## Percent Emerged

May 17, 2020



National Progress	
Emerged	43
Change from 5-year Average	+3

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

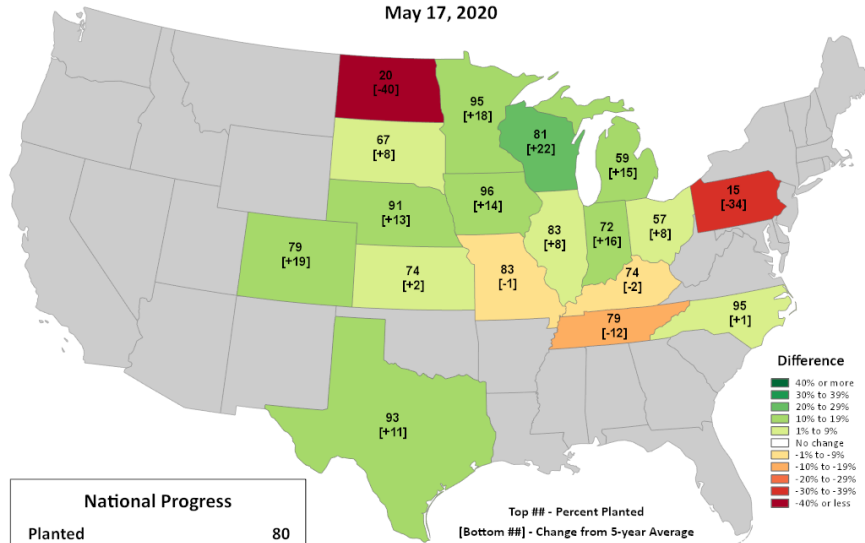
# USDA NASS Crop Progress Corn

- Planting ahead of 5 year avg except ND-MO (+9%).
- Emergence much better NE-MN, not in eastern Corn Belt (+3%).
- 6% corn in ND still in ground (2019)

# Corn Progress

## Percent Planted

May 17, 2020



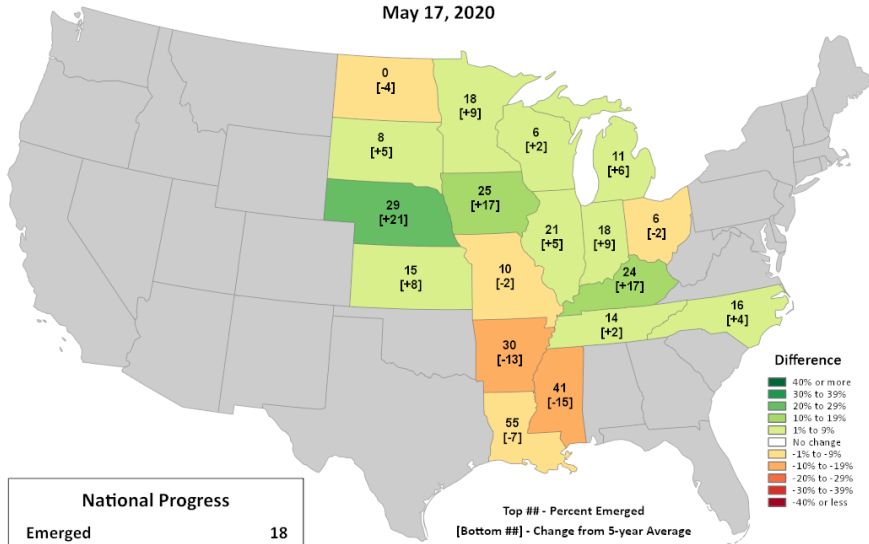
National Progress	
Planted	80
Change from 5-year Average	+9

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

## Soybeans Progress

### Percent Emerged

May 17, 2020



National Progress	
Emerged	18
Change from 5-year Average	+6

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

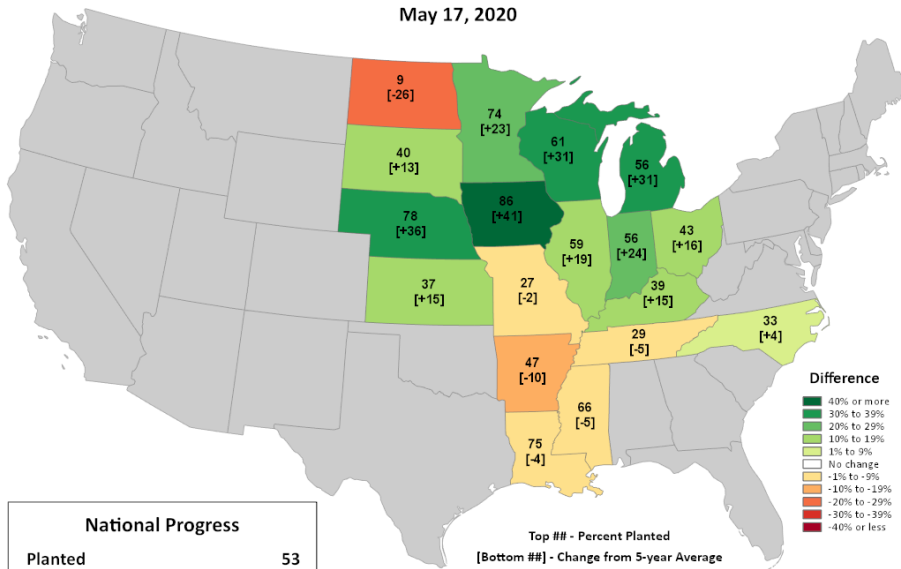
# USDA NASS Crop Progress Beans

- Planting ahead of 5 year avg except ND-MO) – similar to corn (+15%).
- Emergence much better NE-MN, not in eastern Corn Belt (+6%).
- 6% corn in ND still in ground (2019)

## Soybeans Progress

### Percent Planted

May 17, 2020

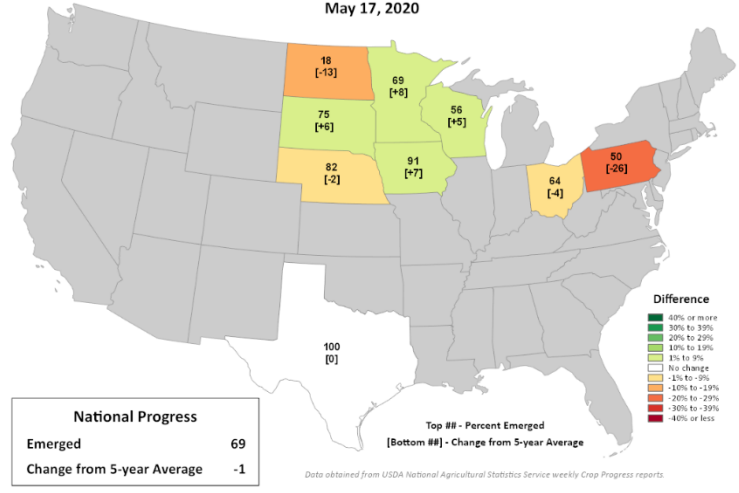


National Progress	
Planted	53
Change from 5-year Average	+15

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



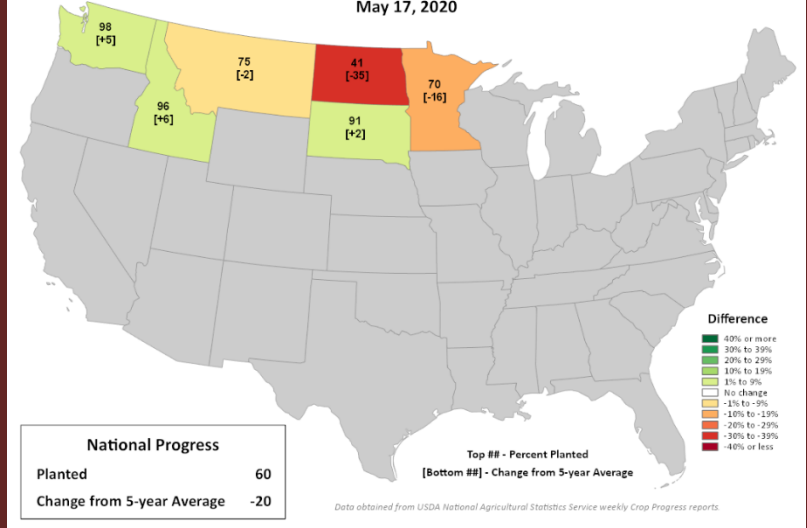
### Oats Progress Percent Emerged May 17, 2020



# USDA NASS Crop Progress

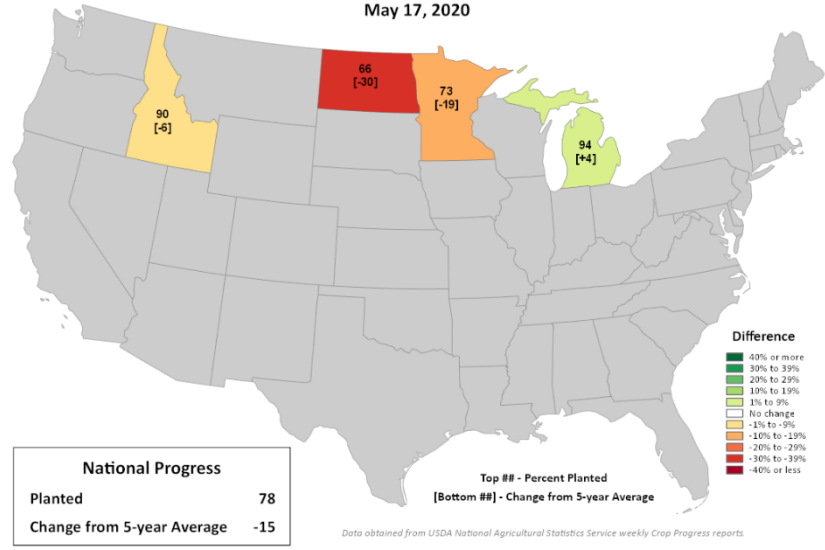

 United States Department of Agriculture  
This product was prepared by the USDA Office of the Chief Economist (OCE) World Agricultural Outlook Board (WAOB)

### Spring Wheat Progress Percent Planted May 17, 2020

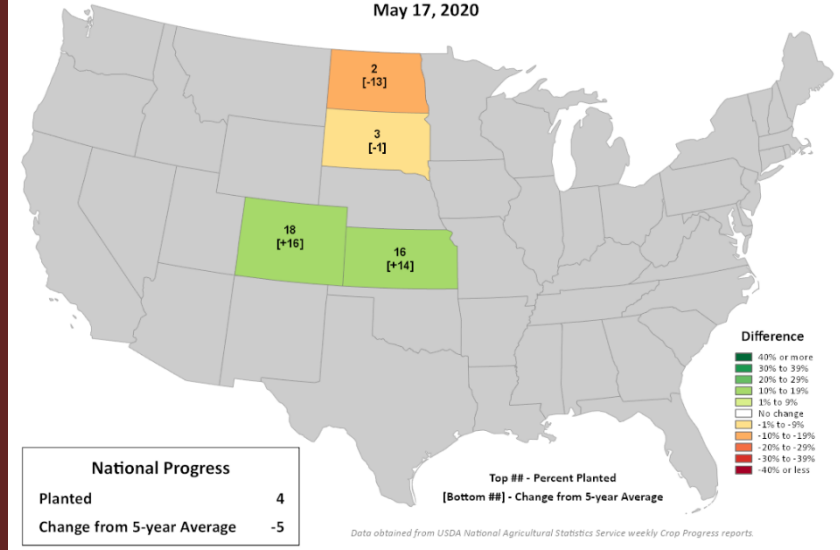


- Sample of other progress maps.

### Sugarbeets Progress Percent Planted May 17, 2020



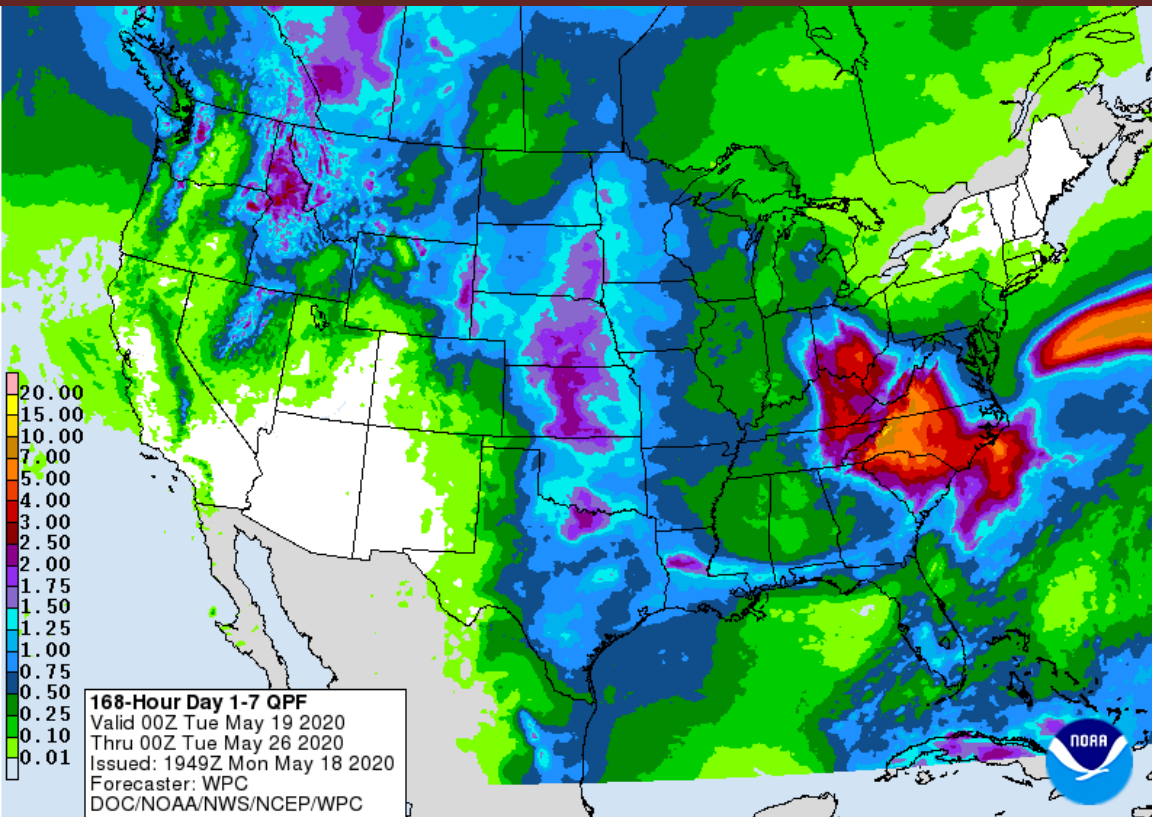
### Sunflowers Progress Percent Planted May 17, 2020



# Assorted AG Issues

- Planting moved ahead quickly except for MO/ND and pockets other places.
- Emergence slower corn/beans eastern corn belt.
- Slower progress much northern plains.
- 6% corn still in fields in ND – PP very likely
  
- Missing some impacts of weekend events
- Replants coming after wetness in IL
- Rain welcomed many places NE-IA-MN helping recent dryness

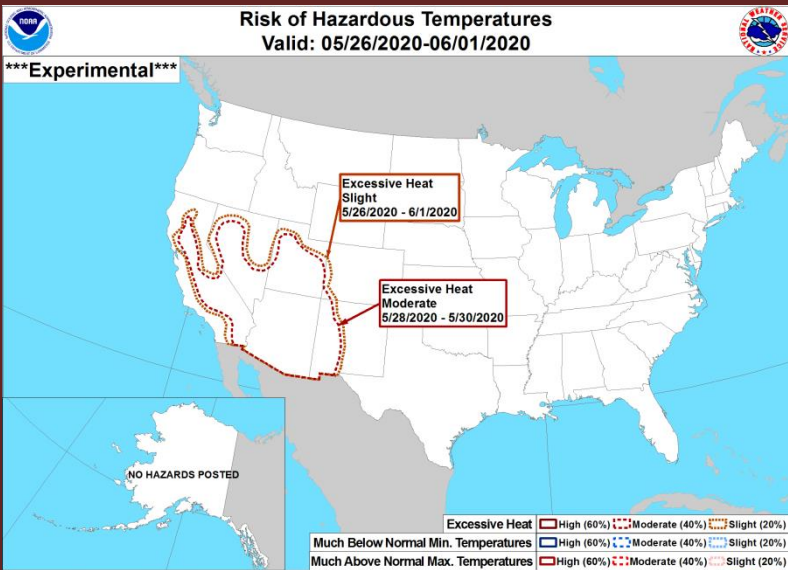
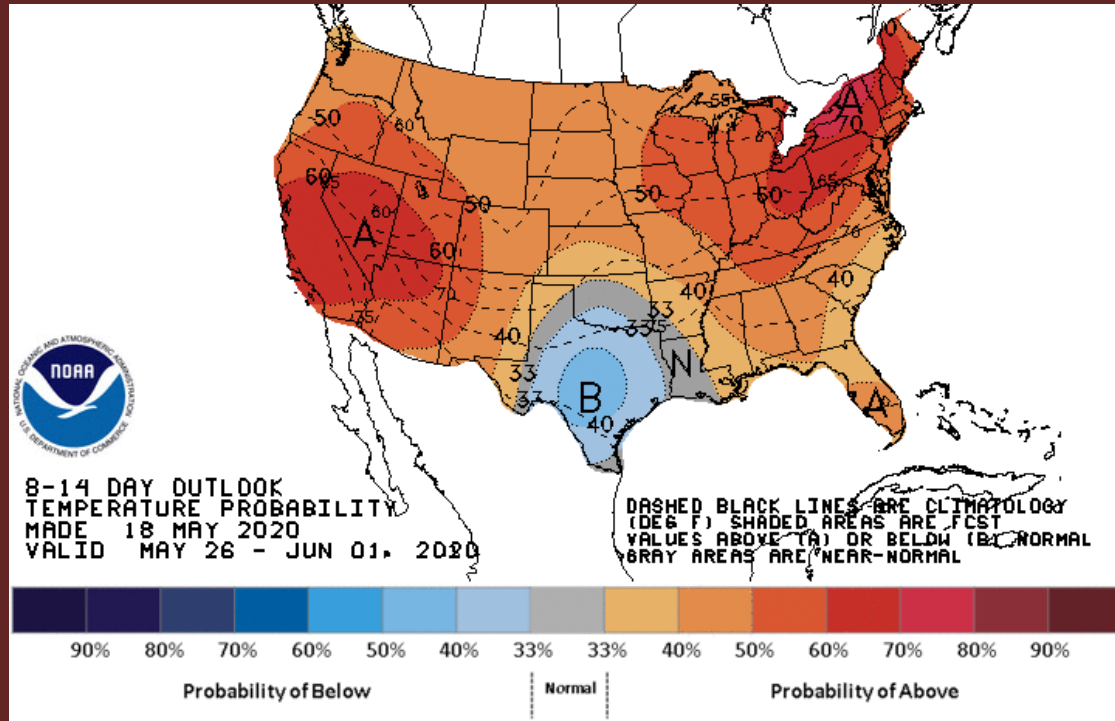
# 1-7 Day Precip



- Current system dropping rain in eastern Corn Belt.
- Later in week better news for plains with predicted amounts up to 2".
- Illinois gets a reprieve from wetness.

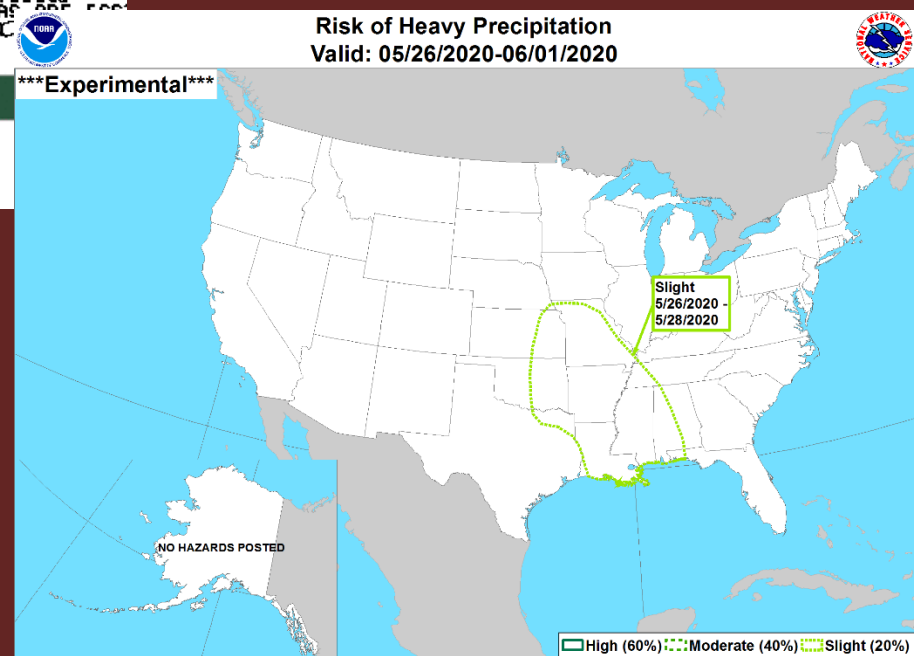
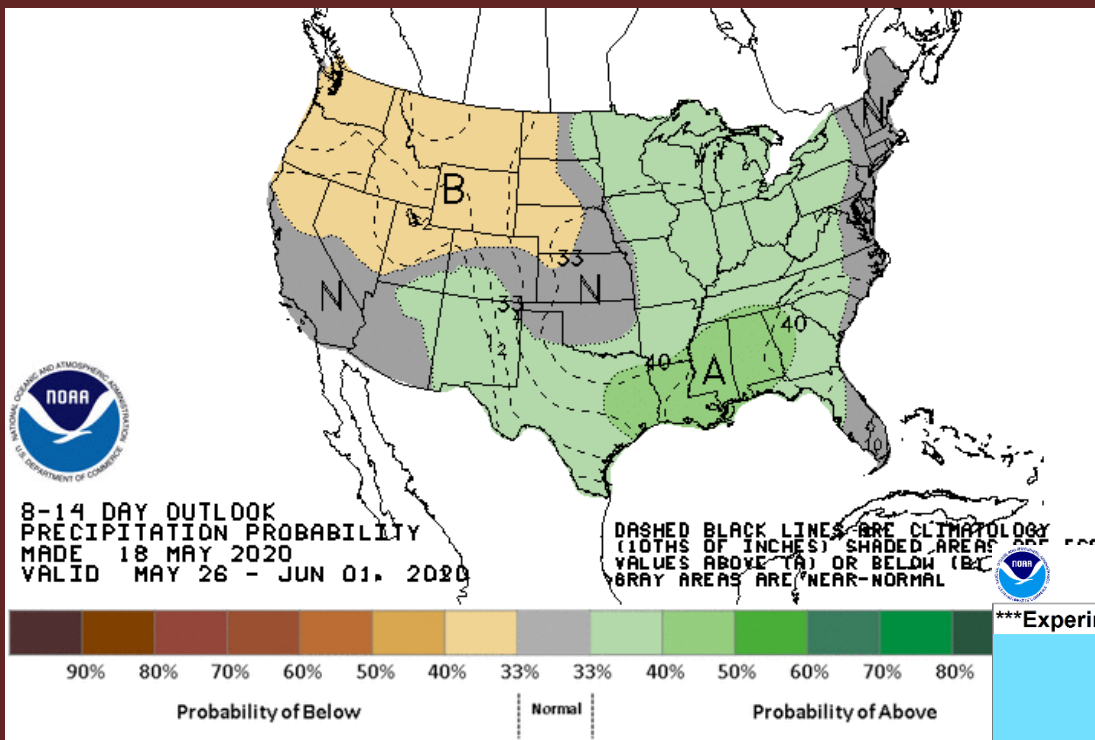
# Temperature Outlook

- Warmer than avg. likely to continue throughout region into week 2.
- Higher chances eastern areas.



# Precipitation Outlook

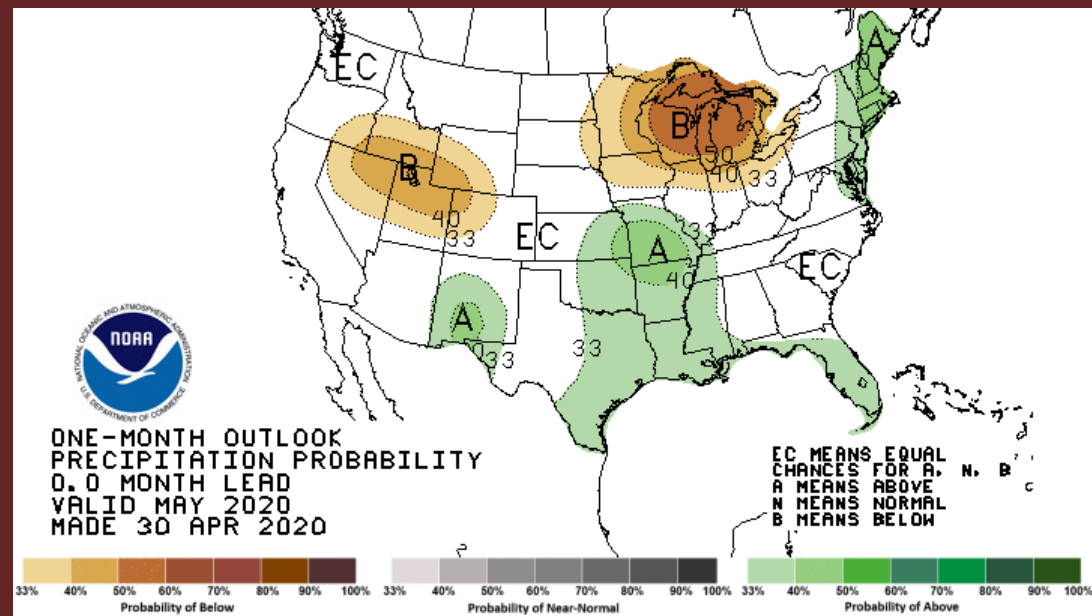
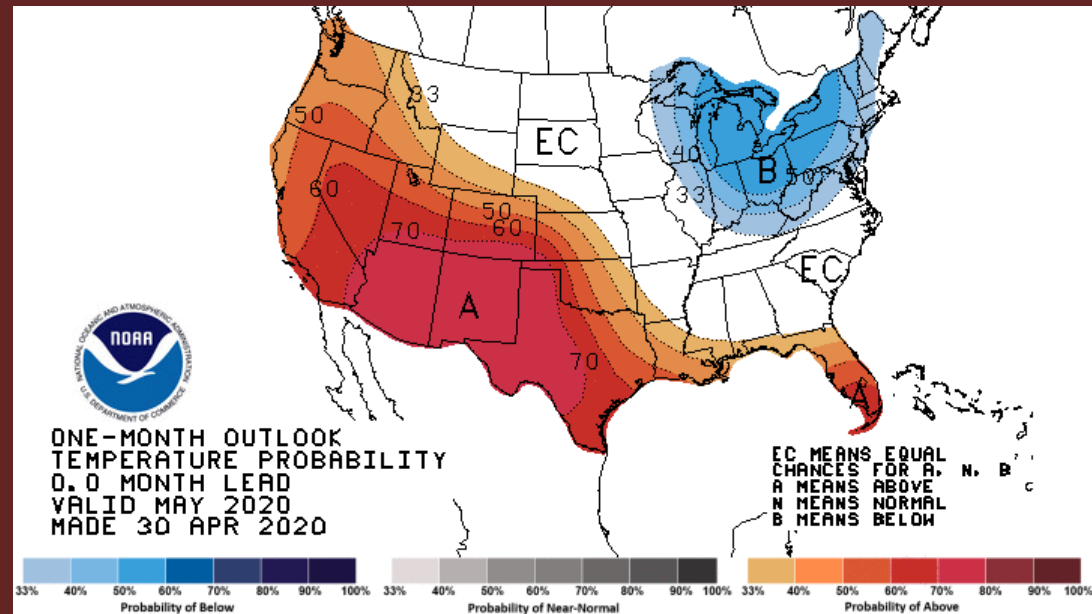
- Moderate chance for precip – higher east/lower west
- Small risk heavy rain Missouri to the south.





# 1-Month Outlook

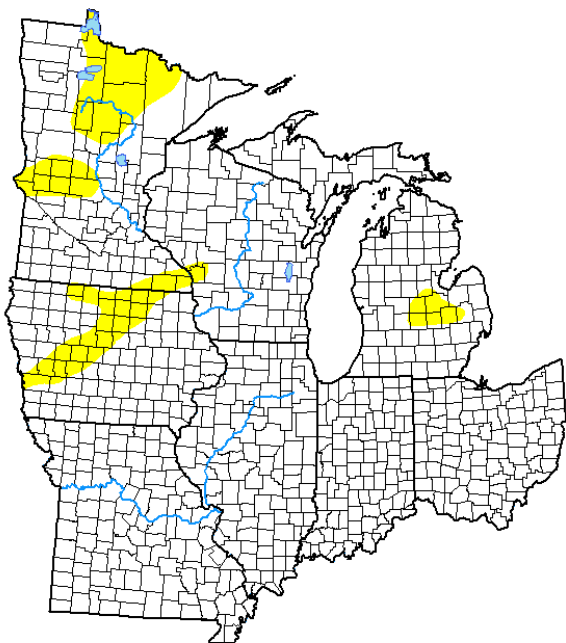
- No changes from last time.



# Drought in the Midwest

U.S. Drought Monitor

USDA Midwest Climate Hub



May 12, 2020

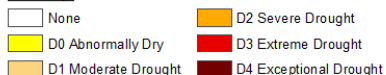
(Released Thursday, May. 14, 2020)

Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	91.28	8.72	0.00	0.00	0.00	0.00
Last Week 05-05-2020	98.78	1.22	0.00	0.00	0.00	0.00
3 Months Ago 02-11-2020	100.00	0.00	0.00	0.00	0.00	0.00
Start of Calendar Year 12-31-2019	99.71	0.29	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 05-14-2019	100.00	0.00	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:

Richard Tinker  
CPC/NOAA/NWS/NCEP

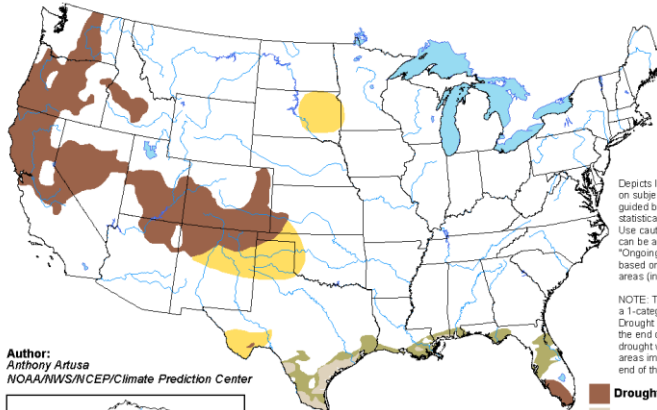


[droughtmonitor.unl.edu](http://droughtmonitor.unl.edu)

This regions remains free of drought, with persistently above-normal precipitation prevailing for over a year in some areas. Still, a few small areas of abnormal dryness have developed. One in east-central Michigan grew slightly this past week, and a small area of D0 pushed into west-central Wisconsin from the broader-scale dryness farther west.

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

Valid for May 2020  
Released April 30, 2020



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:  
Anthony Artusa  
NOAA/NWS/NCEP/Climate Prediction Center



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



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

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

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

# Summary

- Generally good news – rains helped some dryness.
- Some issues in IL – replant. Delays largely north.
- Warmth will help some drying and quicken growth this week into next.
- Precip chances still decent.
- Some rumbling about La Niña picking up. Still unlikely to impact growing season (more Wednesday)

# Next MAC-T Monthly Call

Next Call  
**June 3rd, 2020**