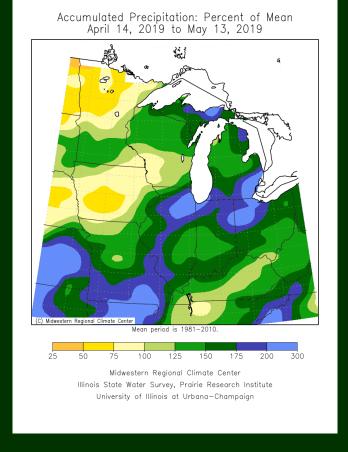
MAC-T Monthly Call

Midwest Agriculture and Climate Team

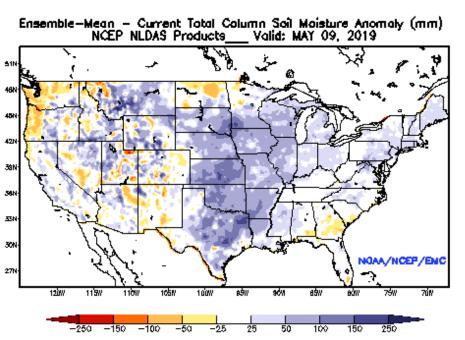


Average Temperature (°F): Departure from Mean April 14, 2019 to May 13, 2019 Mean period is 1981-2010. Midwestern Regional Climate Center Illinois State Water Survey, Prairie Research Institute University of Illinois at Urbana-Champaign



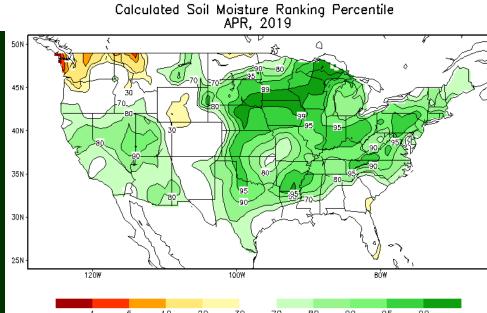
- Mostly cooler than average temperatures over the last 30 days slightly warmer in the east.
- Precipitation 150-300% average eastern Corn Belt. Pockets of dryness close to half average in MN and IA into NE.

Soil Moisture



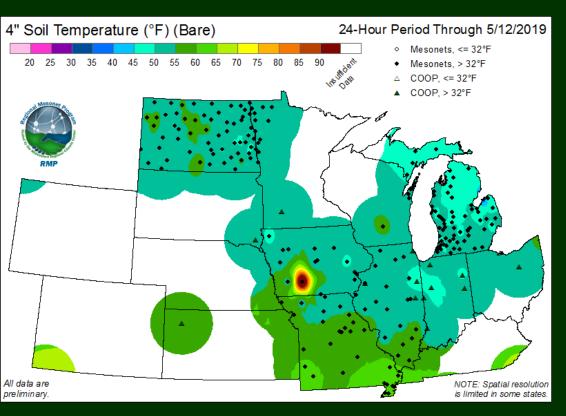
 No surprises in soil moisture. Widely and mostly wet – even in the dry areas of IA. Dry pockets showing up far north.

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

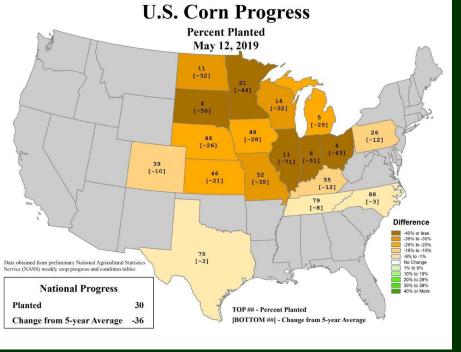


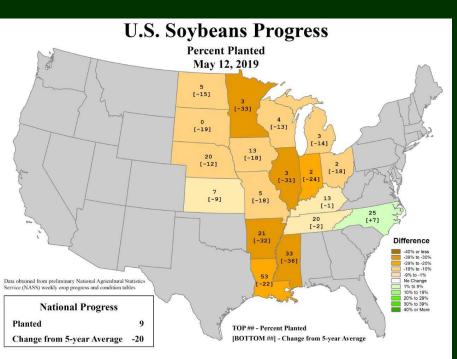
http://www.cpc.ncep.noaa.gov/products/Soilmst_Monitoring/US/Soilmst/Soilmst.shtml#

Soil Temperature

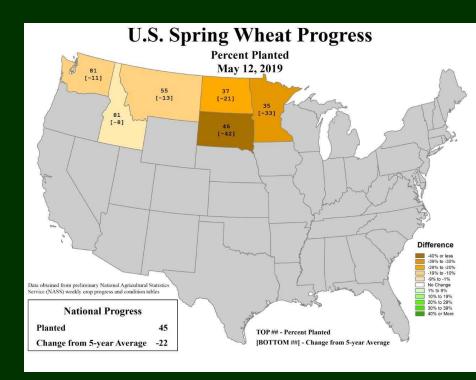


 Recent cool temperatures and wet soils have kept soils generally cool (50s) but warm enough for planting and slow crop development.





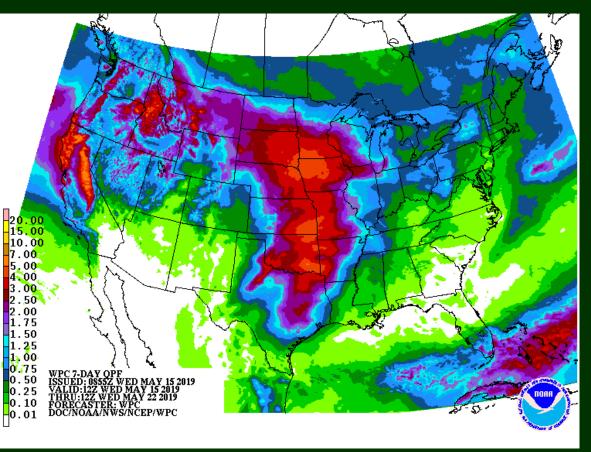
USDA-NASS Crop Progress



Assorted AG Issues

- Wet/cool soils slowing crop planting progress/development (3rd latest corn planting)
 - Illinois 71% behind.
 - Top 4 ended up below trend yield
- Nearing end of possible small grains northern plains
- Prevent plant becoming more possible
- Replants being mentioned in Missouri (others?)
- Poor alfalfa reported in Iowa (worse than expected)
- Winter wheat delayed but good in the plains poorer than average east.

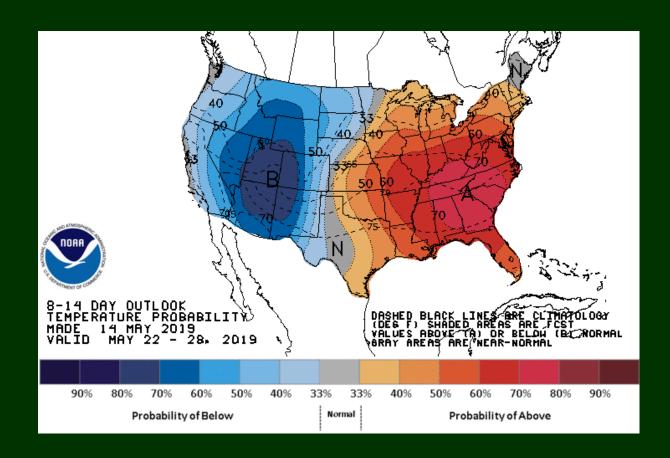
1-7 Day Precip



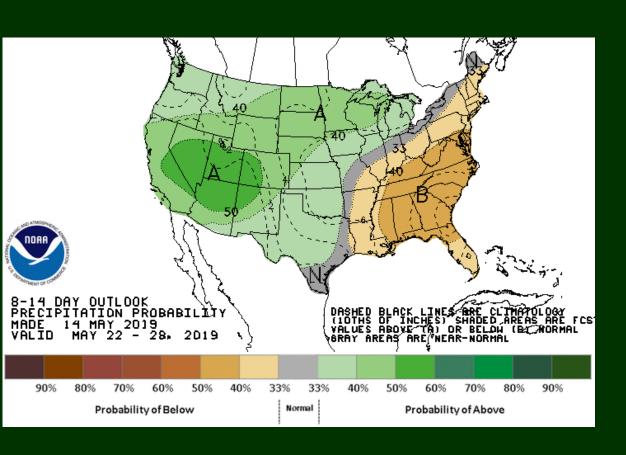
- Little good news. Several more inches possible throughout the middle US.
- Eastern Corn Belt lesser precip amounts possible

Temperature Outlook

- Finally some warmer temperatures more likely in the eastern region
- Continuing likely colder into the Plains

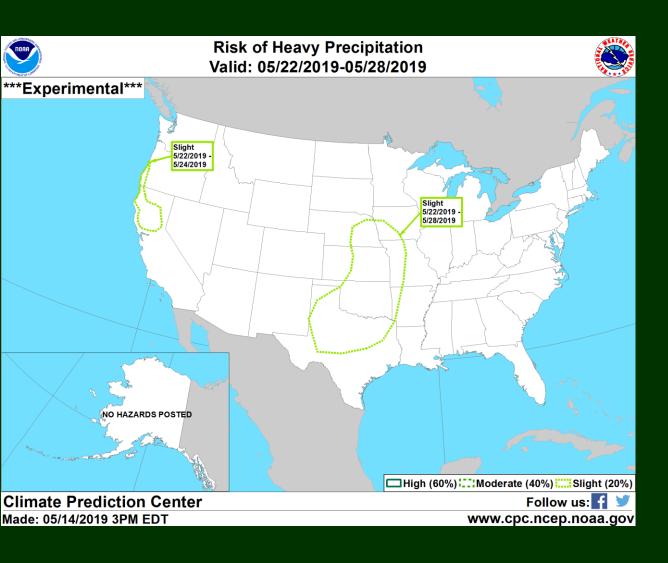


Precipitation Outlook



- Near normal to drier a little more likely in the eastern Corn Belt
- Wetter more likely northern Plains and Great Lakes area

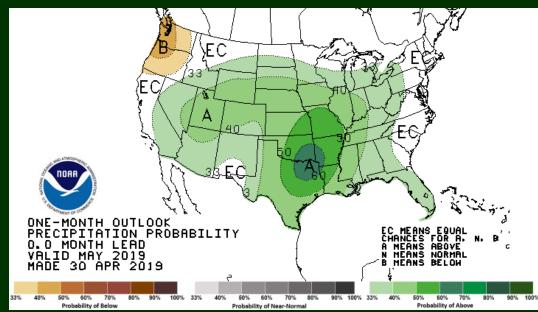
Precipitation Outlook

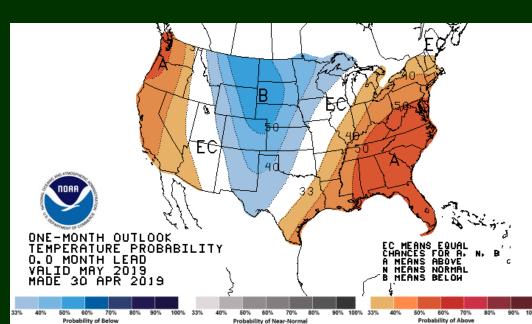


- Slight risk of heavy precip southern
 Plains to western
 Corn Belt through next week.
- Several systems likely to impact the area.

1-Month Outlook

- Text same as May 1 same outlooks
- Wetter than average likely to continue for the month. Best chances south central US.
- Warmer more likely eastern Corn Belt. Colder more likely most of the plains.





Drought in the Midwest

U.S. Drought Monitor
USDA Midwest Climate Hub



May 7, 2019

(Released Thursday, May. 9, 2019) Valid 8 a.m. EDT

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 04-30-2019	100.00	0.00	0.00	0.00	0.00	0.00
3 Month s Ago 02-05-2019	99.70	0.30	0.00	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 09-25-2018	79.61	20.39	9.31	1.86	0.40	0.01
One Year Ago 05-08-2018	76.71	23.29	4.32	0.00	0.00	0.00

Intensity:

D0 Abnormally Dry
D1 Moderate Drought

D3 Extreme Drought

D4 Exceptional Drought

D2 Severe Drought

The Drought Monitor focuses on broad-scale conditions.

Local conditions may vary. See accompanying text summary for forecast statements.

Author:

Curtis Riganti

National Drought Mitigation Center









http://droughtmonitor.unl.edu/

The Midwest also remained free of drought or abnormal dryness this week, with Illinois and Missouri receiving widespread moderate to heavy rainfall amounts. Precipitation in the short term in western lowa has been rather sparse, though this has not led to the development of abnormal dryness.

Summary

- Continued mostly wet and cool. But even dry areas had mostly wet soils
- Very delayed crop planting and development (corn and small grains). Soybeans not far behind.
- Winter wheat (good conditions west worse east)
- Some warmer and drier conditions possible eastern Corn Belt – may allow more progress
- Central/western Corn Belt more chances for rain some possibly heavy
- New outlooks releases tomorrow. Likely not great news.

Next MAC-T Monthly Call

Next Call Wednesday, June 5th.