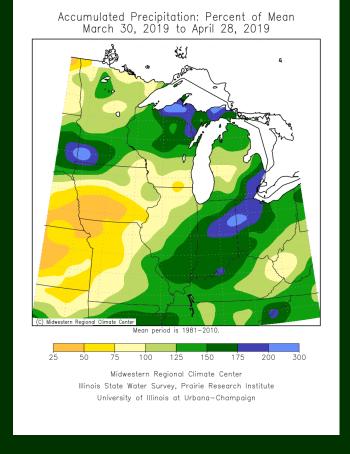
MAC-T Monthly Call

Midwest Agriculture and Climate Team

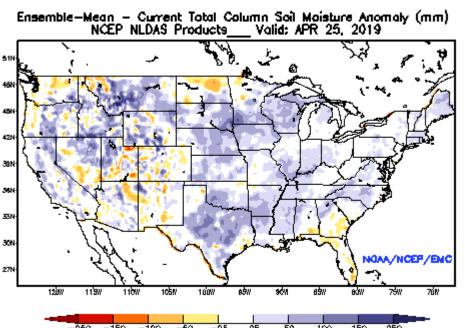


Average Temperature (°F): Departure from Mean March 30, 2019 to April 28, 2019 Mean period is 1981-2010 Midwestern Regional Climate Center Illinois State Water Survey, Prairie Research Institute University of Illinois at Urbana-Champaign



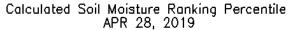
- Temperatures have been close to average overall except a little colder (north) and a little warmer (east)
- Last 30 days have not been wet everywhere. Dryness has been prevalent in the western Corn Belt. Wetter than average conditions have covered much of the eastern and northern Corn Belt.

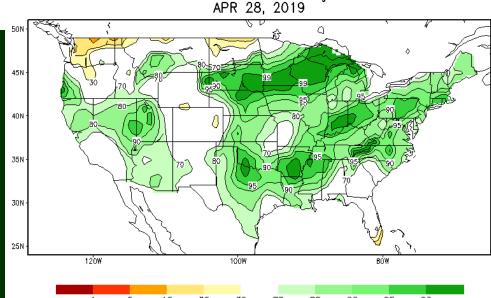
Soil Moisture



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

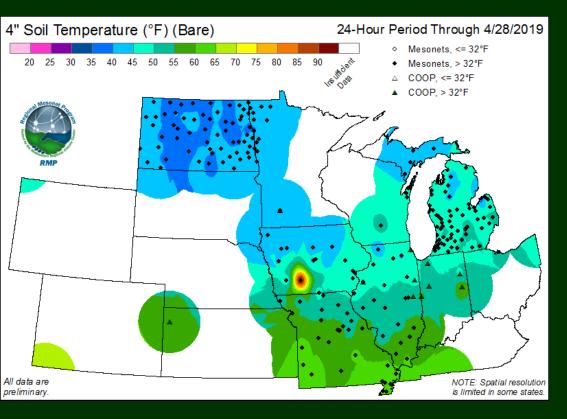
Despite the shorter term dryness in places, soils are still very wet.



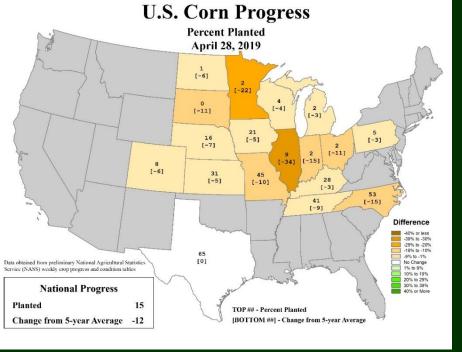


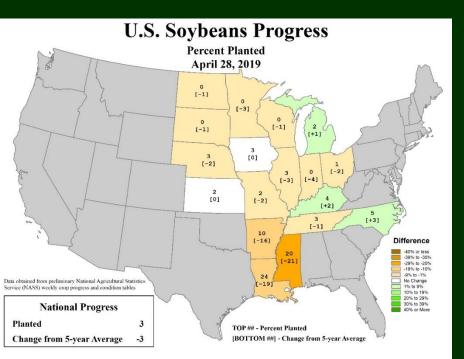
http://www.cpc.ncep.noaa.gov/products/Soilmst Monitoring/US /Soilmst/Soilmst.shtml#

Soil Temperature

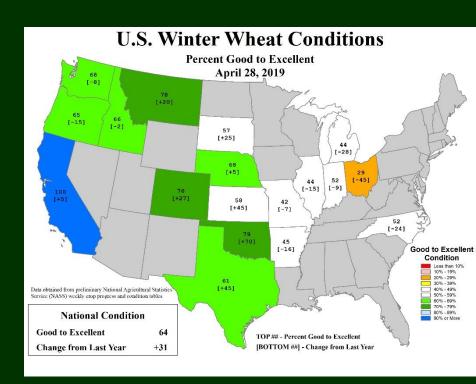


- Soil temperatures had made good progress until the cold returned this weekend.
- Crops are sitting in many soils below 50 F.
- Southern Corn Belt areas are somewhat warmer.
- Iowa does have a bad data point reporting.





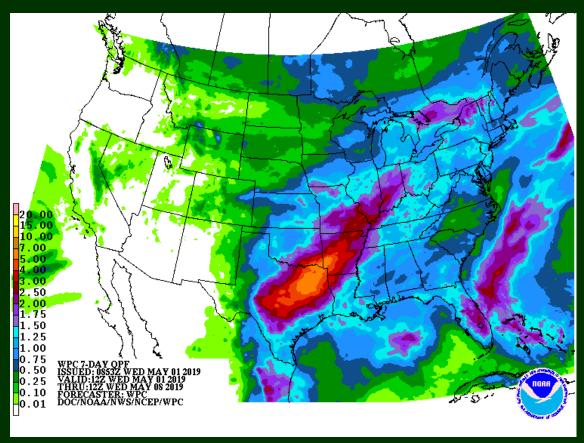
USDA-NASS Crop Progress



Assorted AG Issues

- Crop planting is delayed over much of the region driven mainly by wet soils, but also cool soil temperatures
- Further south planting has moved ahead more.
- Crop conditions are generally acceptable (what has been planted - though delayed). Winter wheat poorer in the eastern wheat areas.
- Some winter kill issues on alfalfa
- Delayed shipments (grain out fertilizer in) on the Mississippi due to high water
- Many prevent plant acres likely to occur.

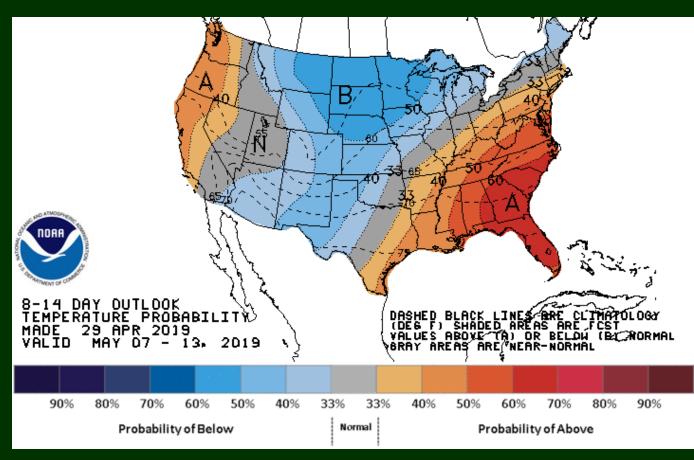
1-7 Day Precip - updated



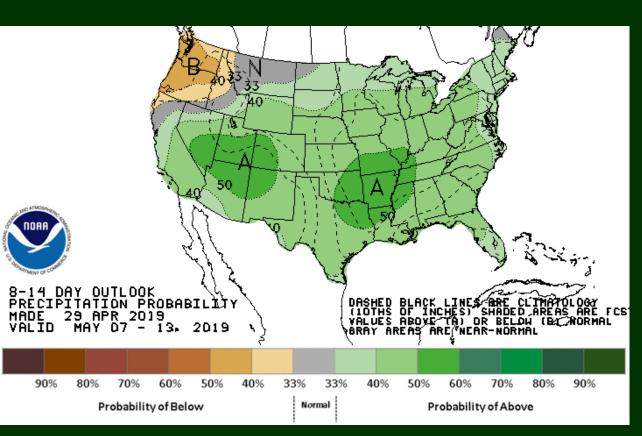
- Wet conditions are likely to stick with much of the region over the next week with 2-3"+ possible.
- Northern plains gets a little reprieve.

Temperature Outlook

 Colder temperatures likely to cover the area into the middle of the month.

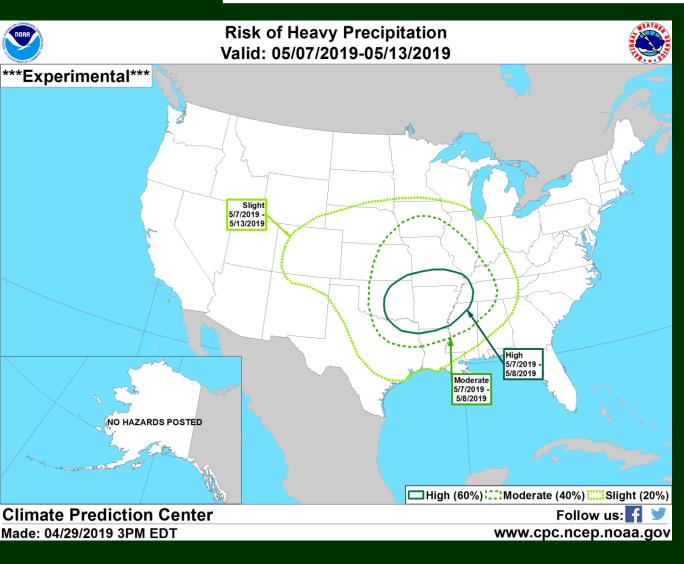


Precipitation Outlook



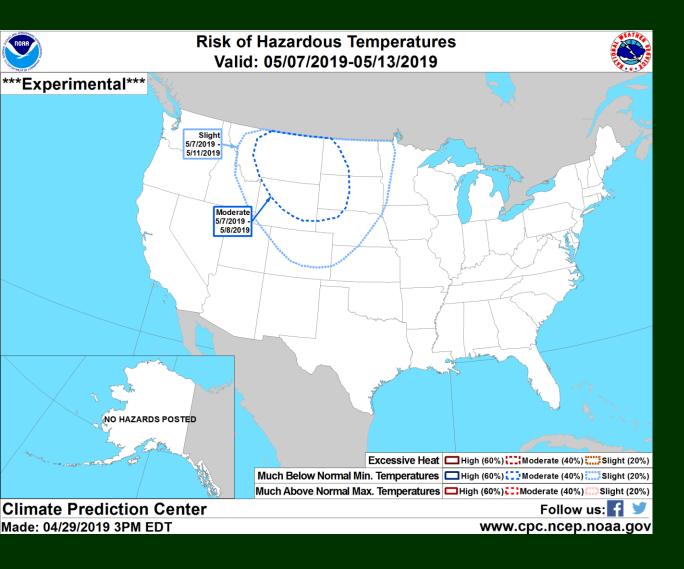
 Wetness does not abate too much into the month. These probabilities are only slightly increased. But with current wetness there is still an issue.

Precipitation Outlook



- A risk of heavier precipitation covers much of the Midwest from May 7-13.
- More of a focus on May 7-8.

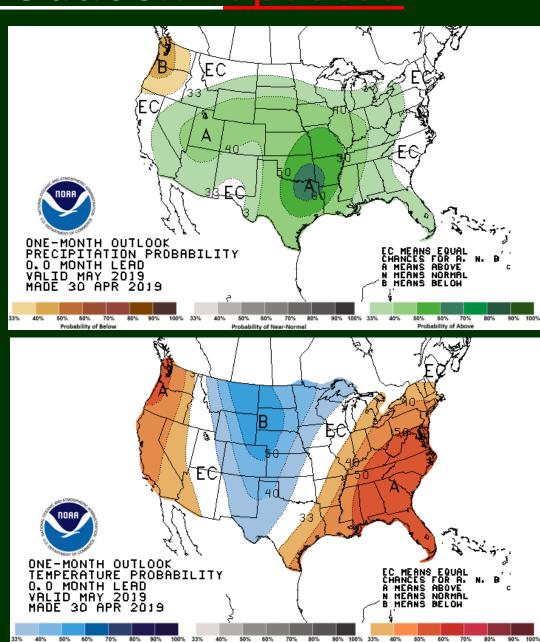
Precipitation Outlook



 More extreme cold chances for the Northern Plains into week 2.

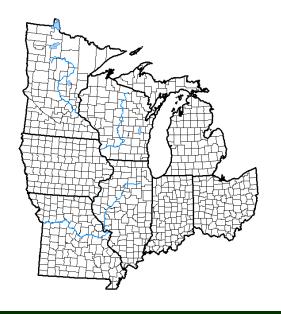
1-Month Outlook - updated

- 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



April 23, 2019

(Released Thursday, Apr. 25, 2019) Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Сиптепт	100.00	0.00	0.00	0.00	0.00	0.00
Last Week 04-16-2019	100.00	0.00	0.00	0.00	0.00	0.00
3 Month's Ago 01-22-2019	99.65	0.35	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 04-24-2018	91.26	8.74	3.47	0.00	0.00	0.00

Intensity:	
D0 Abnormally Dry	D3 Extreme Drought
D1 Moderate 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.

<u>Author:</u> David Miskus NOAA/NWS/NCEP/CPC







http://droughtmonitor.unl.edu/

The Midwest remained D0 and drought-free as a wet 2018 and wet 2019 continued to dominate the soils. This week, moderate to heavy rains (1.5-4 inches) fell across southern Minnesota, northern Wisconsin, and the Upper Peninsula of Michigan, while another band of decent rain (1.5-3 inches) was measured from southeastern Michigan southwestward into central and western Kentucky. In contrast, little or no rain was observed across most of Iowa, northern Illinois, northern Missouri, and eastern Ohio. According to USDA/NASS on April 21, every Midwestern state reported little or no topsoil or subsoil moisture shortages (0-2% short or very short), with several states reporting 25-60% surpluses. Some hint of dryness at 1-2 months was showing up in southern Iowa and northern Missouri and it will be watched, but for now it was welcome news for farmers to get into the fields for preparation and planting.

Summary

- Delayed field work and planting becoming a concern with limited likelihood of progress
- Cool and wet conditions likely to persist except for Ohio Valley (warm and wet there) into mid-May
- Prevent plant becoming an distinct possibility
- El Nino likely for summer. Watch for overall slow development of corn and delayed into fall. (Not predicting, but is a distinct possibility).

Next MAC-T Monthly Call

Next Call Wednesday, June 5th.