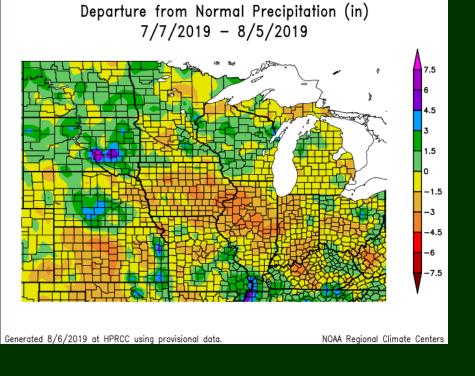
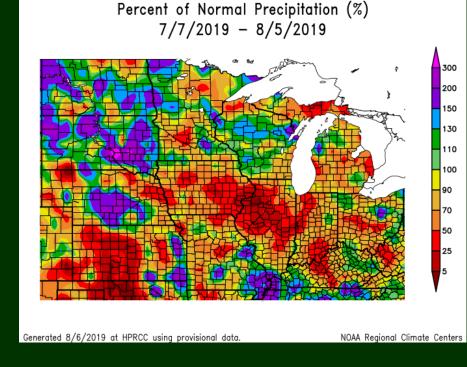
MAC-T Monthly Call

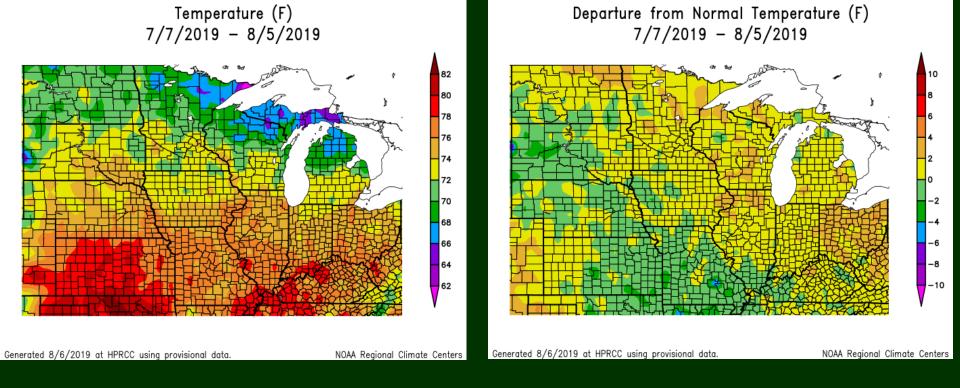
Midwest Agriculture and Climate Team





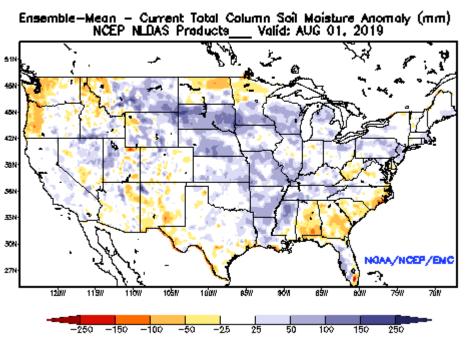


- Precipitation amounts have slowed somewhat across the region. Northern areas still above average.
- Biggest concern area is lowa to the east where precip has dropped off quickly with less than 25% of avg. in the core area.



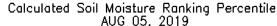
Overall temperatures have not been extreme except for a few short periods. SD to MO
has been slightly below avg. Northeast areas have been up to 2 F above average.

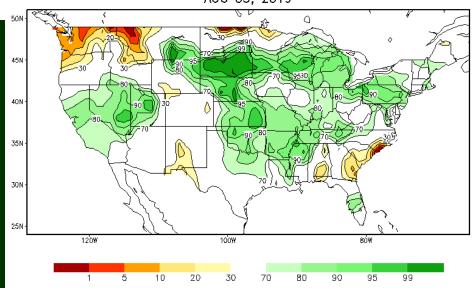
Soil Moisture



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

- Soil moisture issues are tough to quantify and open to some questions.
- Drying occurring in the core dry area.
- Other areas showing wet, though it may be deeper in the soil profile.
- Still wet soils in SD and parts of the plains.

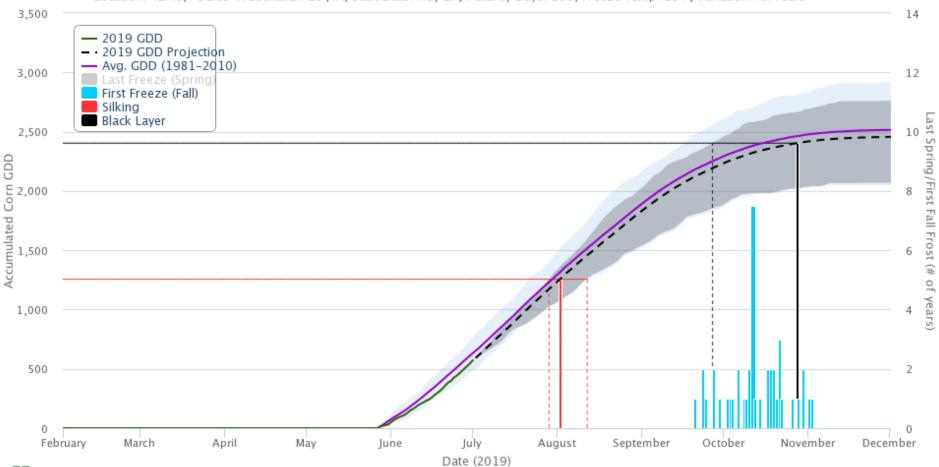




GDD Progress

Corn Growing Degree Day Tool

Location: 42.48, -91.89 in Buchanan Co., IA, Start Date: May 27, Maturity Days: 100, Freeze Temp: 28°F, Variation: All Years





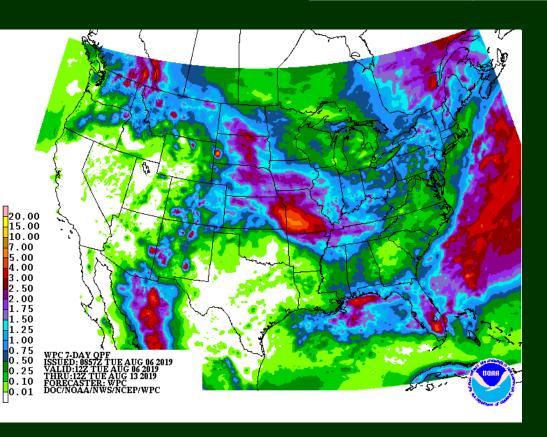
GDD Base 50/86 (degrees F); Created: 07/02/2019

 Check the tool. Too many combinations to deal with right now.

Assorted AG Issues

- Crop conditions have been fairly steady though generally still not very good.
- Delayed development has improved a little. But still a long way to go in the season.
- Stresses showing in corn and beans in many dry areas adding to yield losses.
- Various insect issues
- Drift complaints
- May have to watch for alflatoxin(?) for stress after early wetness
- Others?

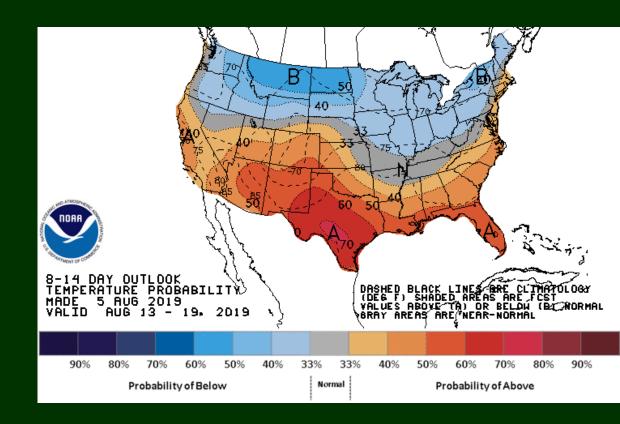
1-7 Day Precip



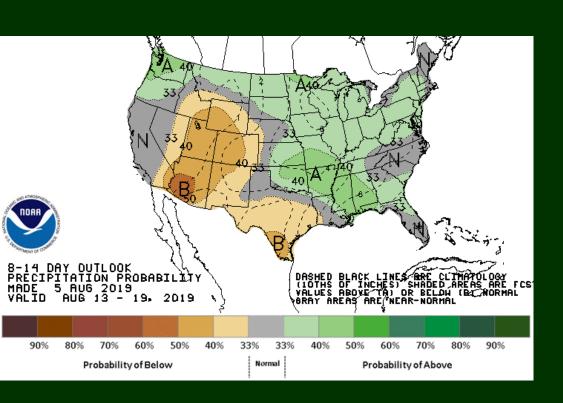
- Better precip amounts possible in western corn belt and plains.
- Some chances east, but amounts more limited
- Some stressed areas will not see much help.

Temperature Outlook

- Mid-August leans cool over most of the area.
- Will be trying to balance reduced stress from water limited crops with GDD need for maturity.



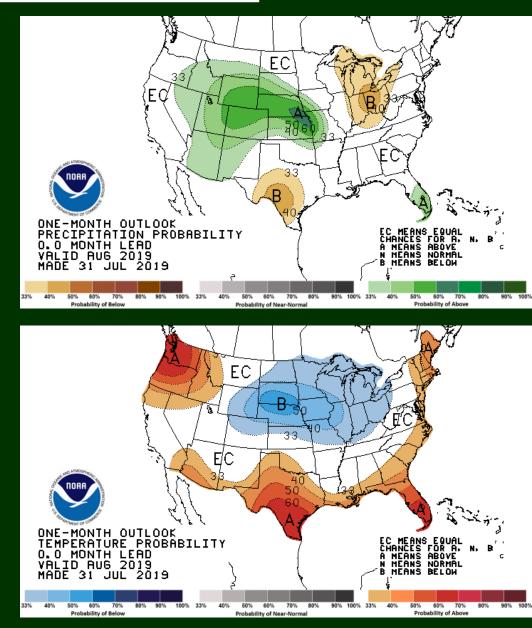
Precipitation Outlook



- Precipitation chances slightly above average. Will be curious if this holds together.
- Late summer precip tends to be spotty. Not everyone gets help.

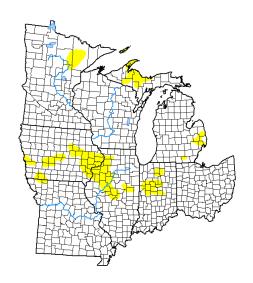
1-Month Outlook

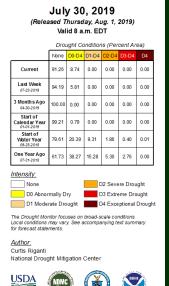
- August outlooks dominated by northerly flow from Canada. Ridge of high pressure stays over the Rockies/Plains.
- Cooler temperatures more likely
- Air is also drier.
- Plains has a better chance of staying wetter – eastern Corn Belt slightly likely to be drier.



Drought in the Midwest

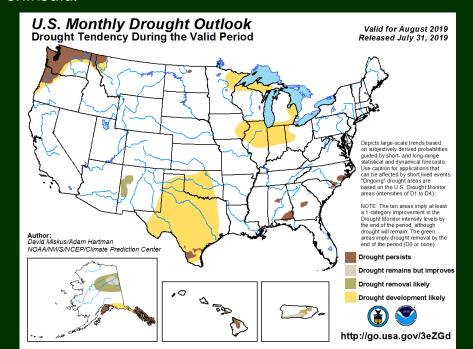
U.S. Drought Monitor
USDA Midwest Climate Hub





droughtmonitor.unl.edu

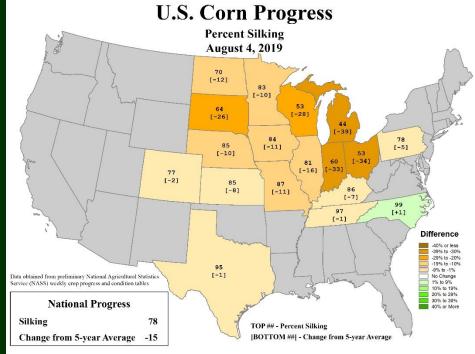
Widespread rainfall occurred in Minnesota, Wisconsin, southwest lowa, and Missouri, while rain coverage was more spotty elsewhere in the region. Temperatures varied from below normal in the southern and western parts of the region, across Kentucky, Missouri, and western lowa, to above normal in Michigan, Wisconsin, and surrounding areas. The region remained free of drought, though several areas of abnormal dryness grew in coverage in response to short-term precipitation deficits and reported agricultural impacts. These increases in abnormal dryness occurred in Indiana, Illinois, Iowa, and the Michigan Upper Peninsula.



Summary

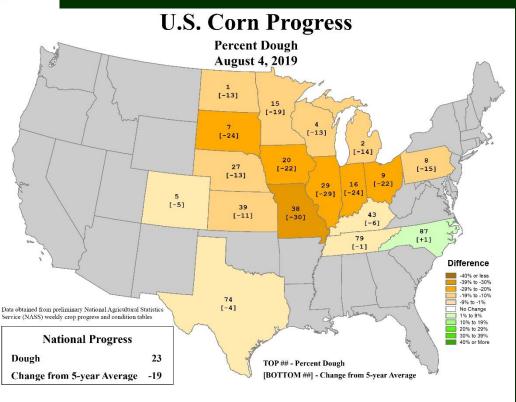
- Walking a balance on crops to get enough heat to reach maturity while not stressing water limited crops with higher temperatures
- Have lost more yield to stress
- Still watching overall maturities.

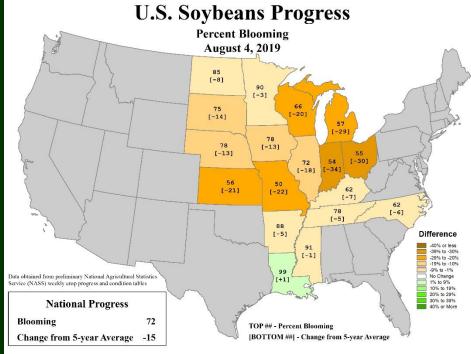
 Freeze/frost – can give no indications on freeze/frost dates at this time other than averages and trends.
 These are generally in our favor right now – later.



USDA NASS Crop Progress (through August 4)

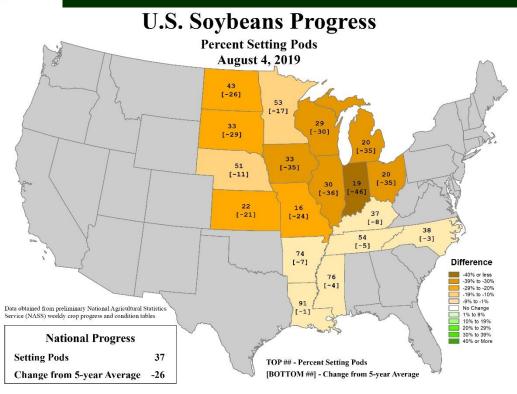
Crop progress (corn silking and dough) nationally through Aug 4 (silking 78% -15%; dough 23% -19%).

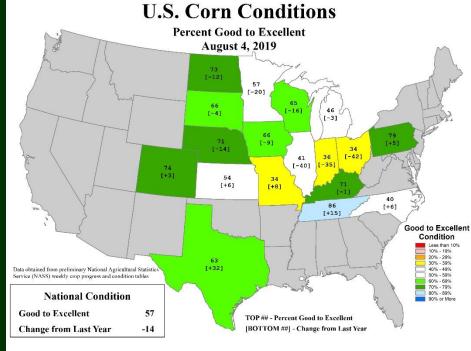




USDA NASS Crop Progress (through August 4)

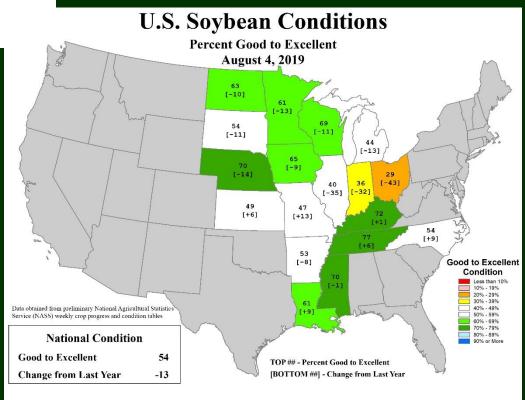
Soybean progress (blooming and setting pods) nationally through August 4 (blooming 72% -15%; pods 37% -26%).

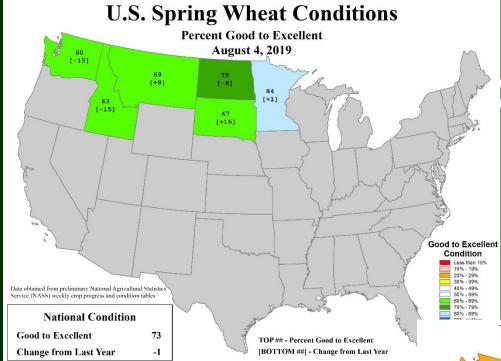




USDA NASS Crop Conditions (through August 4)

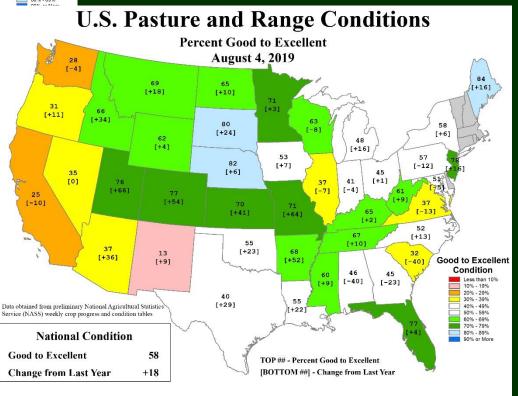
Crop condition (G-E) nationally through August 4 compared to 2018 (corn 57% -14%; beans 54% -13%).





USDA NASS Crop Conditions (through August 4)

Crop condition (G-E) nationally through August 4 compared to 2018 (spring wheat 73% -1%; pasture and range 58% +18%).



Next MAC-T Monthly Call

Next Call Wednesday, SEPT 4th.