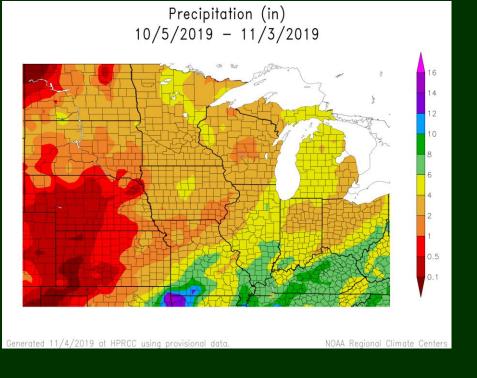
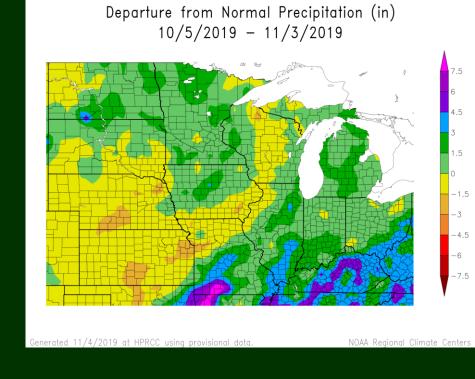
MAC-T Monthly Call

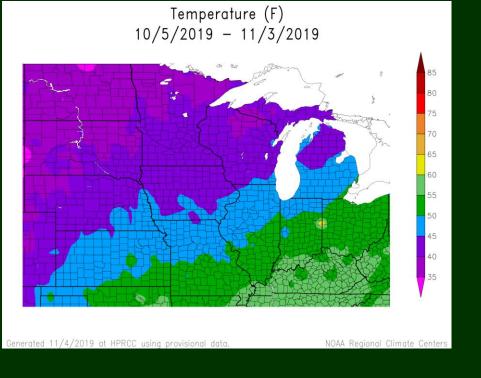
Midwest Agriculture and Climate Team

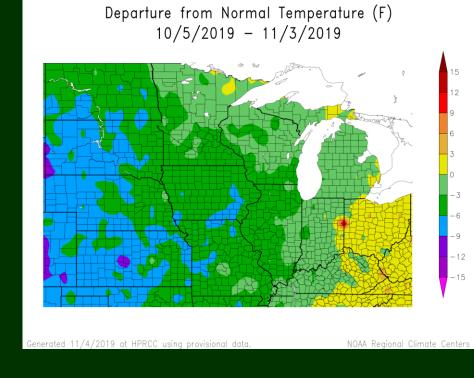






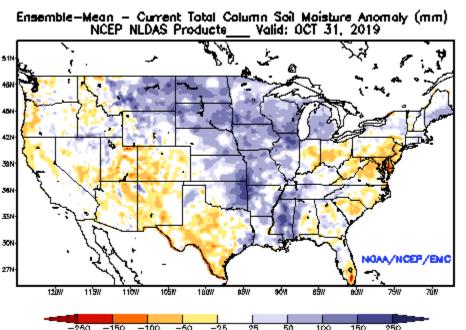
- Recent precipitation has had some good news for the region. Overall dryness in the plains/parts is MO/IA has allowed some harvest progress.
- Wetness in eastern Corn Belt has helped overcome dryness



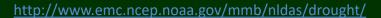


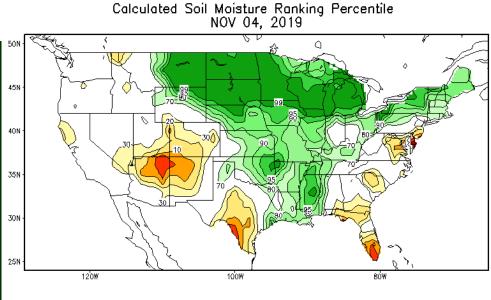
- Cold has become pervasive over the region.
- Colder than average everywhere except the far east. More than 6°f below in the west to slightly above in Ohio and south.

Soil Moisture



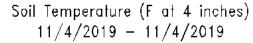
- No real surprises on soil moisture.
 Several inches above avg. most of Corn Belt (except east).
- This has concerns for spring flooding and field work.

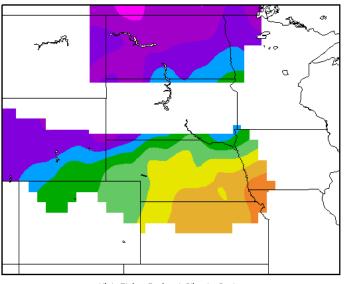




http://www.cpc.ncep.noaa.gov/products/Soilmst Monitoring/US /Soilmst/Soilmst.shtml#

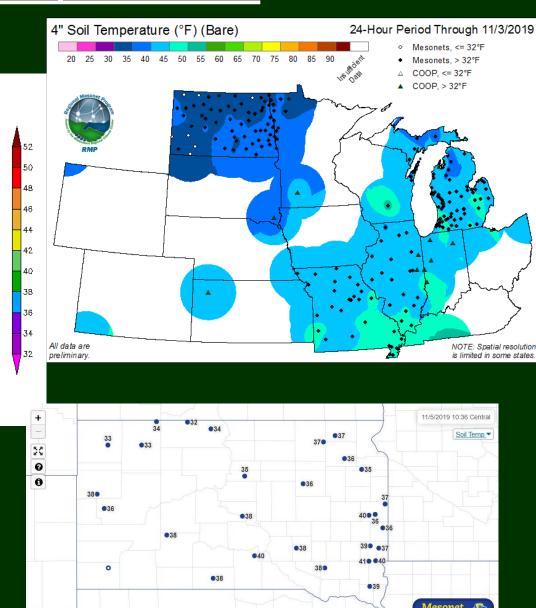
Soil Temperature



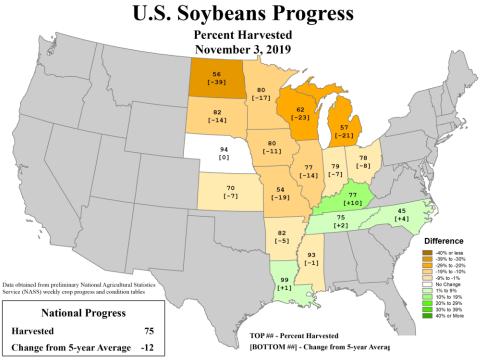


High Plains Regional Climate Center Generated 11/5/2019 using AWDN data.

- Soil temperatures into the 30s
 NW. Some frozen in Dakotas.
- Mostly 40s across Corn Belt.



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



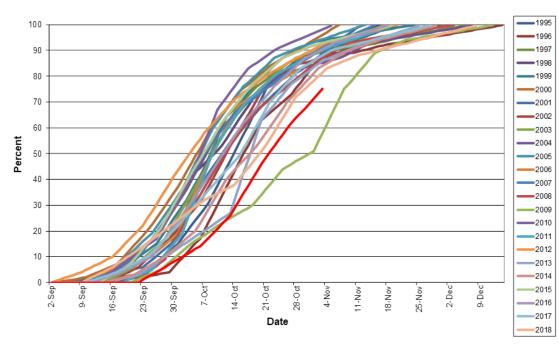
USDA NASS Crop Progress Soybean

U.S. SOYBEANS: Percent Harvested

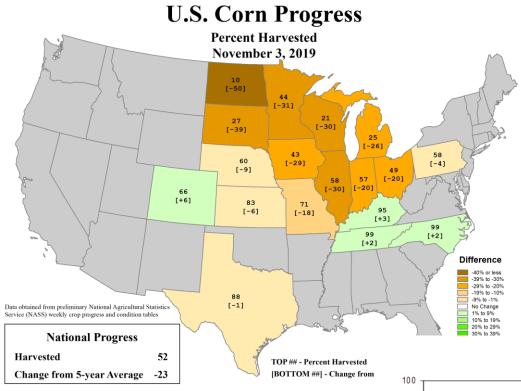
Soybean harvested nationally – 75% (12% behind avg.)

Mixed but mostly worst north.

2nd slowest harvest behind 2009.



Based on NASS crop progress data.



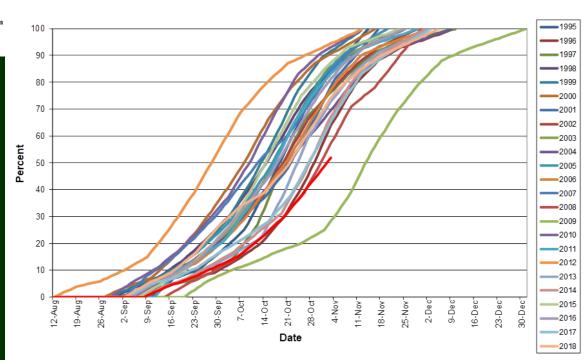
USDA NASS Crop Progress Corn

U.S. CORN: Percent Harvested

Corn harvested nationally – 52% (23% behind avg.)

Clearly worst north – delayed maturity and wet conditions.

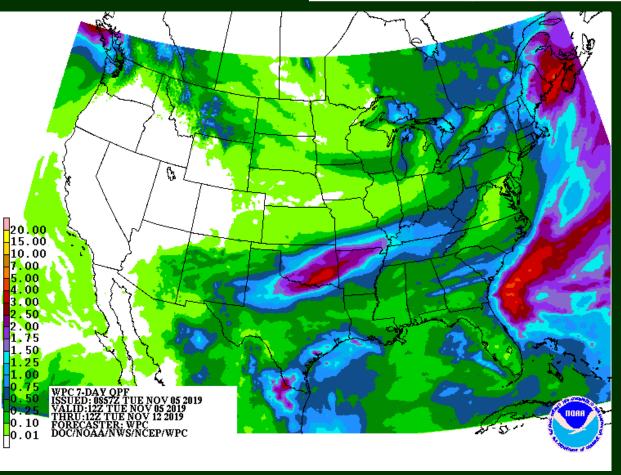
2nd slowest harvest behind 2009.



Assorted AG Issues

- Harvest progressing decently though still well behind.
- Recent dryness has helped in some areas. Wetter conditions in the north particularly may require frozen soils before harvest. Or may not be able to harvest.
- Cold temps have also been a benefit to easing toxicity/disease issues.
- Soil temps in the 30s Dakotas to mostly 40s across the Corn Belt. Some at freezing western Dakotas.
- Wet soils likely to carry over to spring. Also, increased winter precip chances would also add to potential flood issues.

1-7 Day Precip



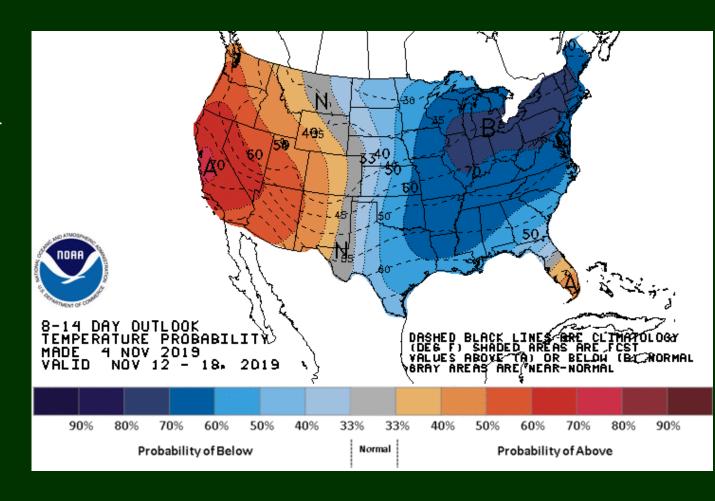
Mostly light precip except far south.

Northern band will fall as snow.

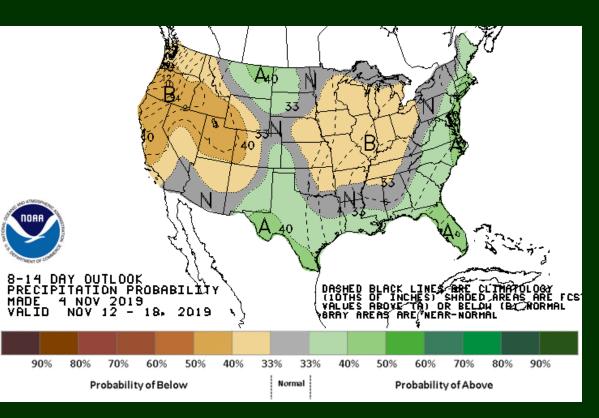
Mostly light overall – better news.

Temperature Outlook

- Quite likely colder than average into mid-November.
- Lesser chance further west.



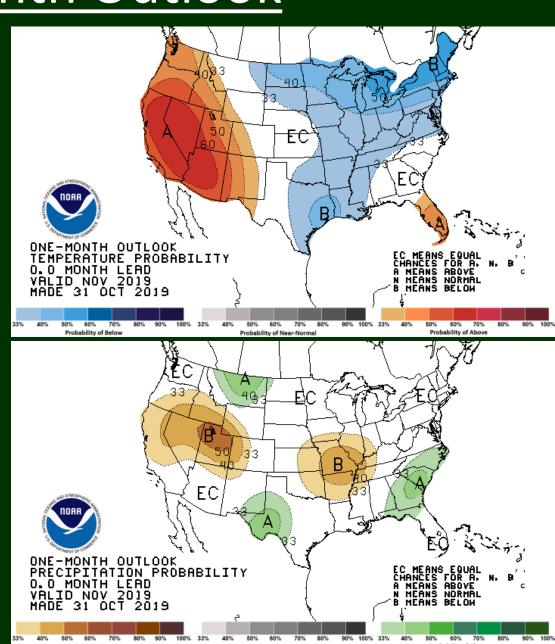
Precipitation Outlook



- Mostly slightly below avg. chances for precip.
- Slightly higher far northern plains.
- Will see lake effects start to set in with cold outbreaks.

1-Month Outlook

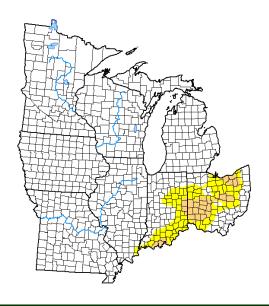
- Early month cold seems to give way later in the month to more moderate temps. Likely not enough to get the month above avg. after cold start.
- Again not much on the precip side, drier likely centered on Missouri and maybe wetter in Montana.



Drought in the Midwest

U.S. Drought Monitor

USDA Midwest Climate Hub



October 29, 2019

(Released Thursday, Oct. 31, 2019) Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	91.03	8.97	2.78	0.00	0.00	0.00
Last Week 10-22-2019	87.46	12.54	4.70	0.26	0.00	0.00
3 Month's Ago 07-30-2019	91.26	8.74	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 10-01-2019	80.58	19.42	4.98	0.39	0.00	0.00
One Year Ago 10-30-2018	93.91	6.09	0.16	0.00	0.00	0.00







The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

Author:

David Simeral

Western Regional Climate Center





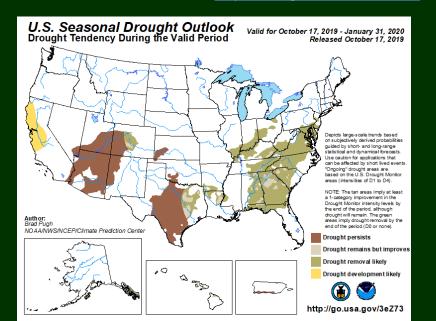




droughtmonitor.unl.edu

On this week's map, one-category improvements were made in areas of Severe Drought (D2) and Moderate Drought (D1) in Indiana and Kentucky in response to precipitation accumulations ranging from 1-to-3 inches. According to the USGS, streamflows are running at normal to well above normal levels across nearly the entire region. According to the USDA for the week ending October 27th, the percent of subsoil by state rated short to very short was as follows: Minnesota 1%, Iowa 2%, Missouri 3%, Wisconsin 0%, Illinois 12%, Michigan 4%, Indiana 39%, Ohio 43%, and Kentucky 49%. For the week, average temperatures were mainly near normal to slightly above normal across much of Indiana, Kentucky, and Ohio, while further west in the region temperatures were 4-to-8 degrees below normal.

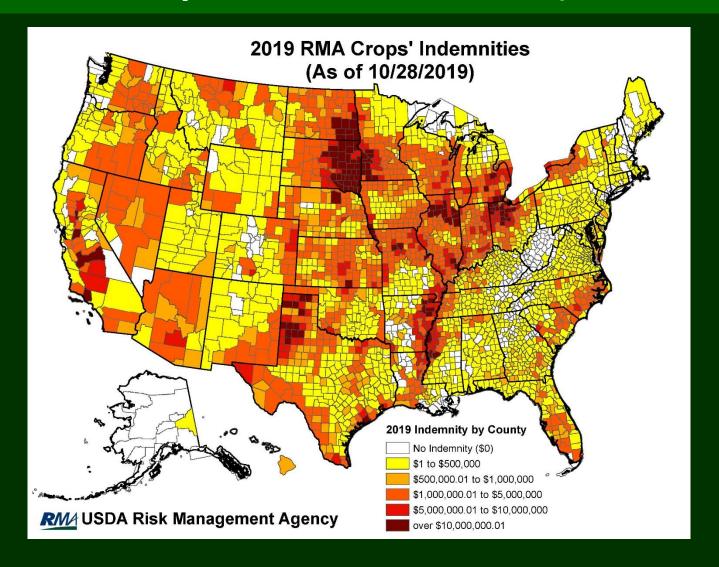
http://droughtmonitor.unl.edu/



<u>Summary</u>

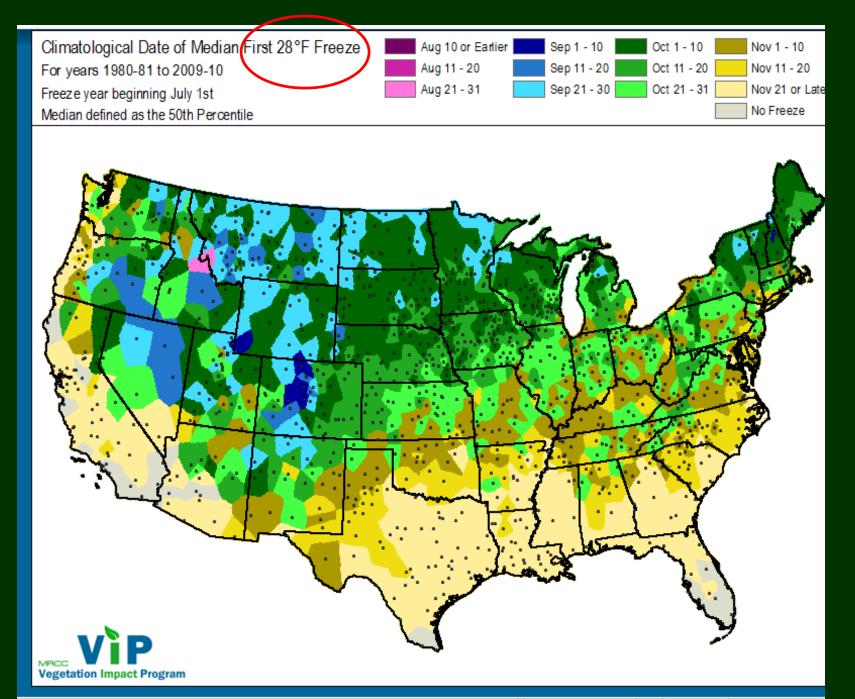
- Harvest progress will continue at moderate speed some may have to wait for frozen soils/spring.
- Cold into mid-November with some later month recovery possible.
- Precip chances not too serious currently.
- Mixed chances for winter temperatures as a whole.
- Some concern about wetter than average winter possible.
- Overall winter outlook confidence is lower.

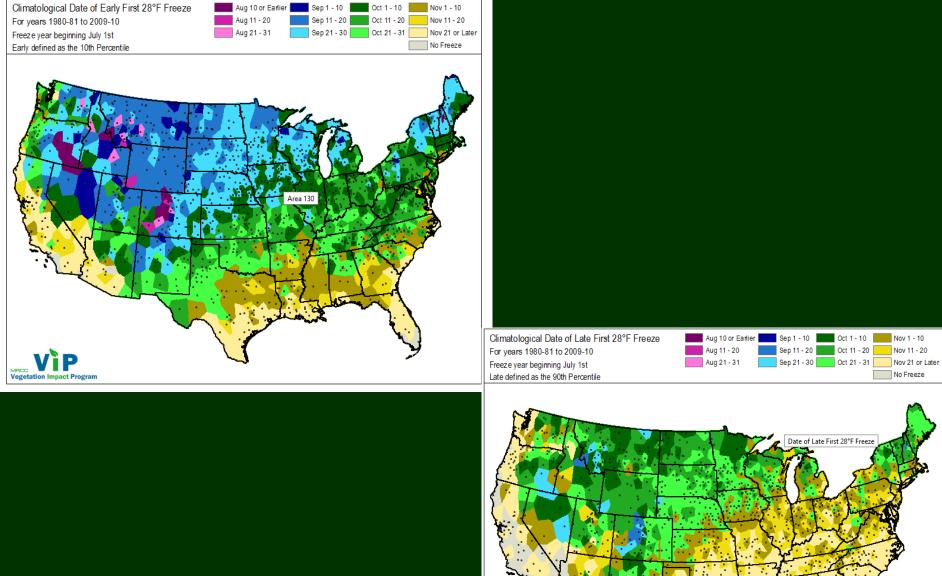
2019 Crop Indemnities (28 Oct.)



Next MAC-T Monthly Call

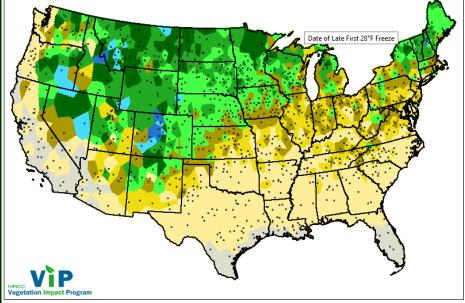






Oct 1 - 10 Nov 1 - 10

Aug 10 or Earlier Sep 1 - 10



No Freeze