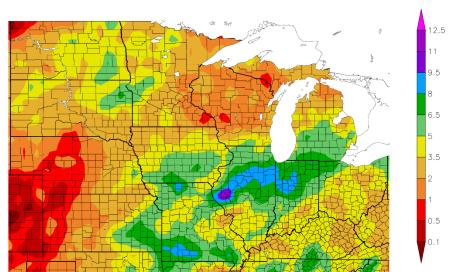
MAC-T Monthly Call

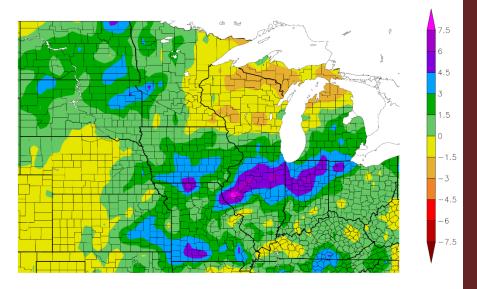
Midwest Agriculture and Climate Team



Precipitation (in) 10/2/2021 - 10/31/2021



Departure from Normal Precipitation (in) 10/2/2021 — 10/31/2021

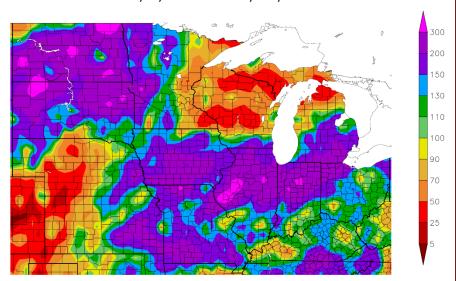


Generated 11/1/2021 at HPRCC using provisional data.

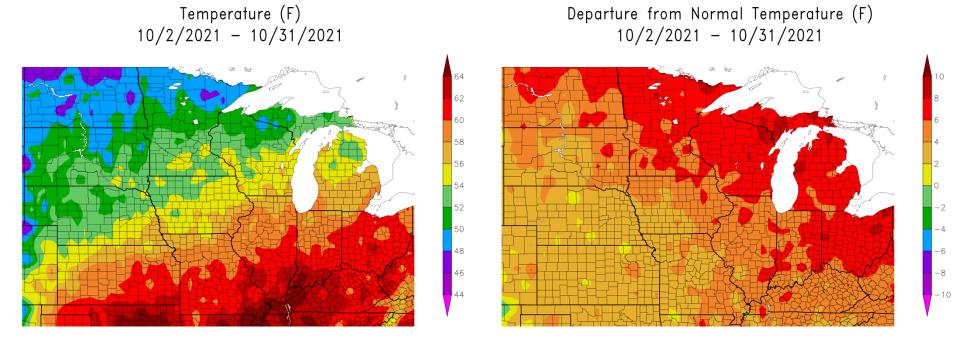
NOAM Regional Climate Centers Generated 11/1/2021 at HPRCC using provisional data.

NOAA Regional Climate Centers

Percent of Normal Precipitation (%) 10/2/2021 - 10/31/2021



- In a switch from the previous month most of the region had above average precipitation.
- Central Plains and an area centered in Wisconsin have missed on precip.



Generated 11/1/2021 at HPRCC using provisional data.

NOAA Regional Climate Centers Generated 11/1/2021 at HPRCC using provisional data.

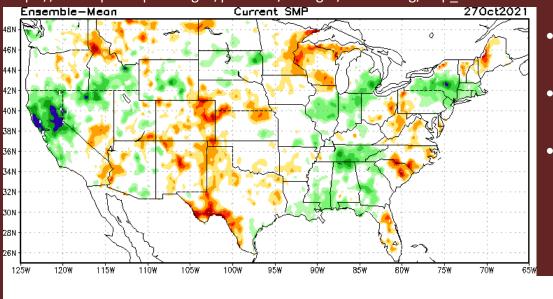
NOAA Regional Climate Centers

- Warmer than normal whole region
- Mostly 4-6 F above average.

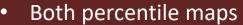
Soil Moisture

95

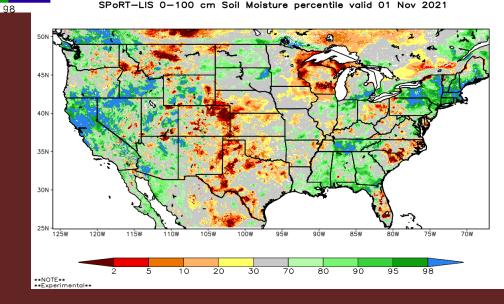




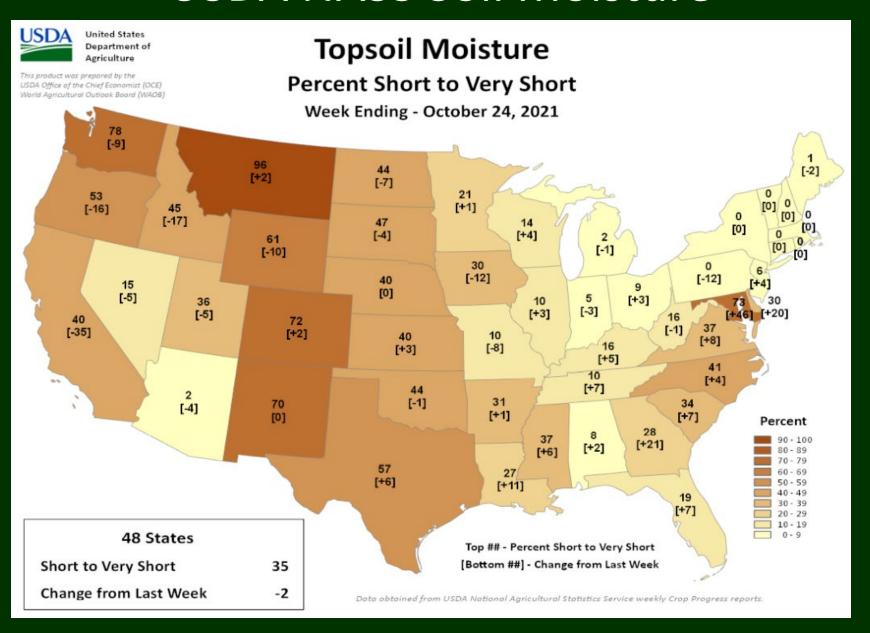
- Precipitation has eased the soil moisture deficits over large areas
- Parts of Dakotas and Eastern Corn Belt are too wet in areas.
- Central Plains to MN/WI still has some deficits.



- Upper whole profile
- Lower top 100 cm (~40")



USDA NASS Soil Moisture



Drought in the Midwest

U.S. Drought Monitor

North Central States

October 26, 2021

(Released Thursday, Oct. 28, 2021)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	46.25	53.75	31.29	14.74	1.87	0.00
Last Week 10-19-2021	44.85	55.15	31.97	14.95	1.88	0.00
3 Month's Ago 07-27-2021	48.28	51.72	38.89	27.35	9.10	0.96
Start of Calendar Year 12-29-2020	34.48	65.52	38.13	15.29	4.66	0.00
Start of Water Year 09-28-2021	39.88	60.12	38.68	24.50	9.27	0.04
One Year Ago 10-27-2020	37.24	62.76	30.28	13.48	1.93	0.00

Intensity:

None D2 Severe Drought
D0 Abnormally Dry D3 Extreme Drought
D1 Moderate Drought D4 Exceptional Drought

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 Heim NCEI/NOAA







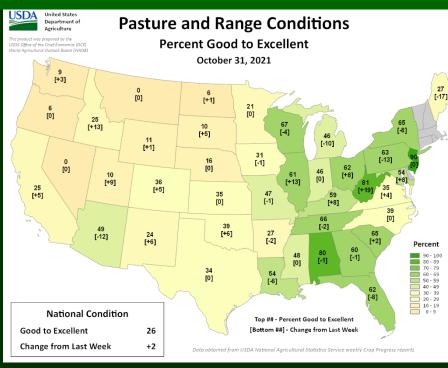


droughtmonitor.unl.edu

- Some improvement but still serious drought
- D3-D2 nrn plains.
- Lesser further south.

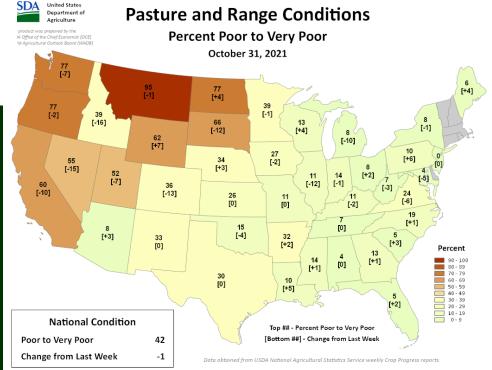
http://droughtmonitor.unl.edu/

Pasture/Range Conditions (NASS)



Pasture and range conditions poor over much of west and northern plains.

Rangeland G-E (NASS): National 26% (0%). Condition P-VP – National 42% (0%).

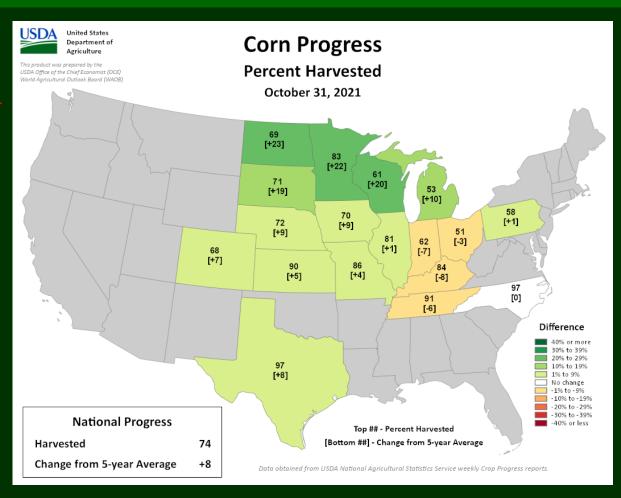




Corn Harvest (NASS)

Corn harvest progressing but slowed a bit by rains. Eastern Corn Belt actually behind 5 year average. Northern areas still far ahead.

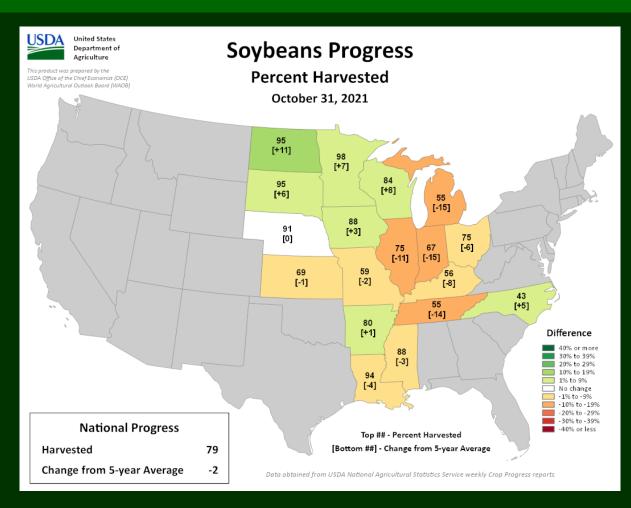
Corn progress (NASS): Harvested - National 74% (+8%).



Soybean Harvest (NASS)

Crop progress (soybean)
harvest slowed much more.
Mostly done northwest states
– well behind eastern.
Overall behind 5 year
average.

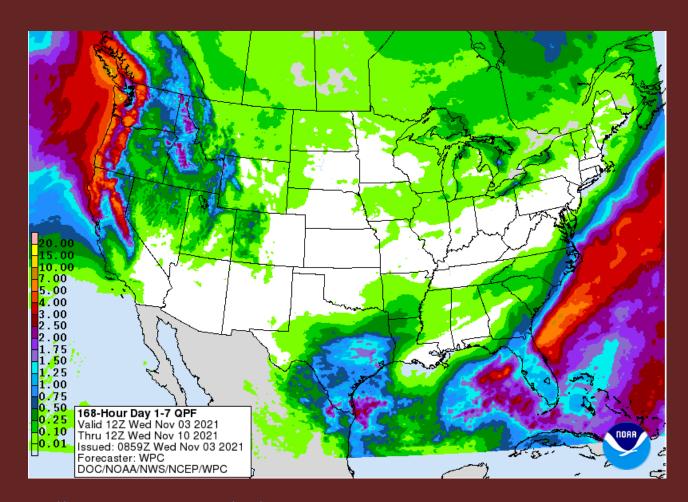
Soybean progress (NASS): Dropping leaves - National 79% (22%).



Assorted AG Issues

- Rains have shifted soil moisture situation
- Soil moisture improvement to too wet in places
- Drier than average still central plains to MN/WI
- Crop conditions Winter wheat in OK condition
- Harvest moving quickly (early maturity-good weather). Slowed by recent rains – particularly east.
- Late freeze just occurred east.

1-7 Day Precip



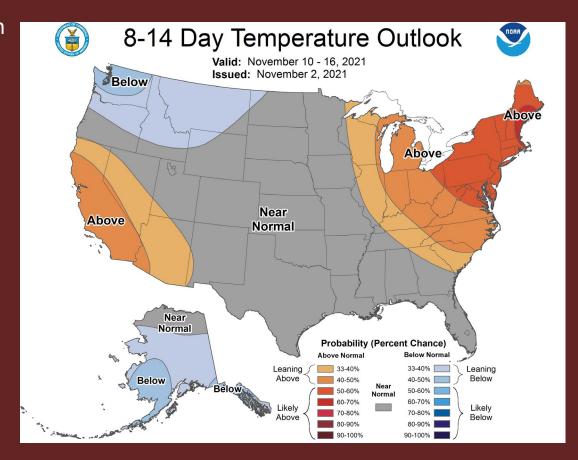
Next 7 days

 Mostly quiet over region with some only light amounts

http://www.wpc.ncep.noaa.gov/qpf/day1-7.shtml

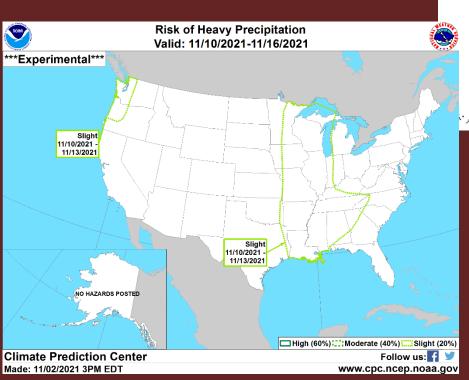
Temperature Outlook

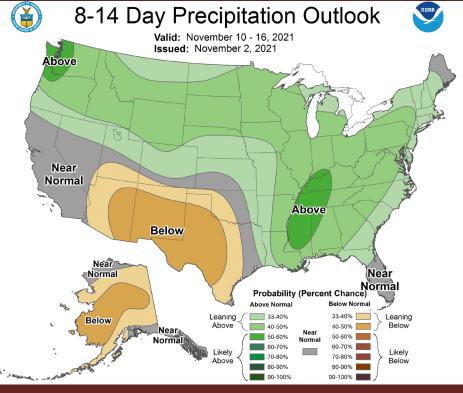
- Warmer more likely most of eastern half o part of region.
- Colder more likely far west.
- Transitioning from warmer in 6-10 day outlook to colder conditions likely again.



Precipitation Outlook

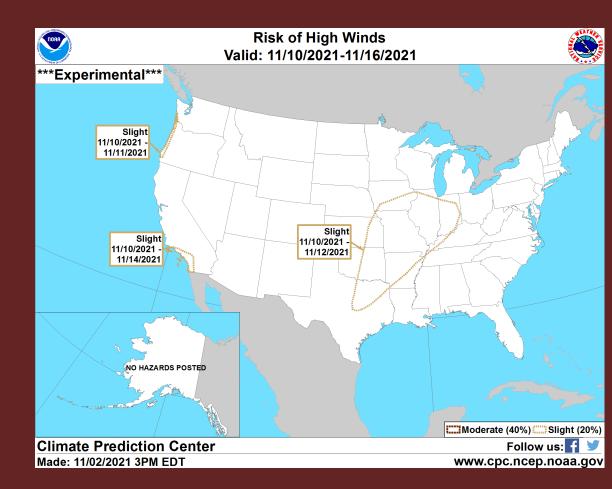
- Most of region has above average chances for precip
- Some risk of heavier precip from western Great Lakes south.
- Precip will help some areas but developing concerns about excess wetness



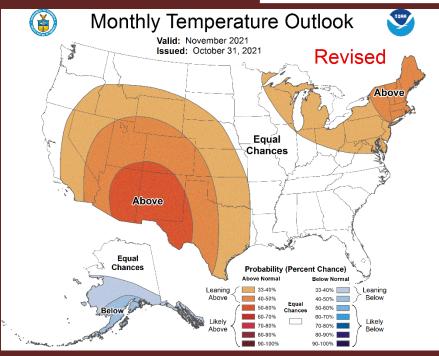


Wind Hazards

 Slight risk of strong winds southern parts of region.

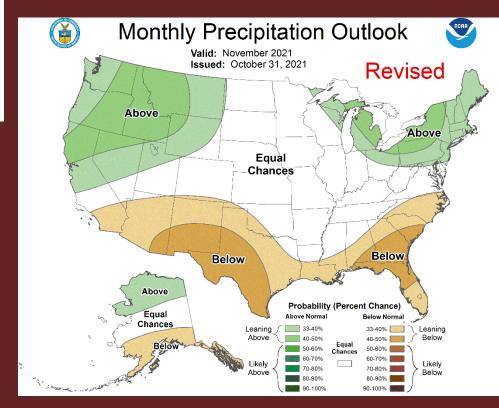


1-Month Outlook

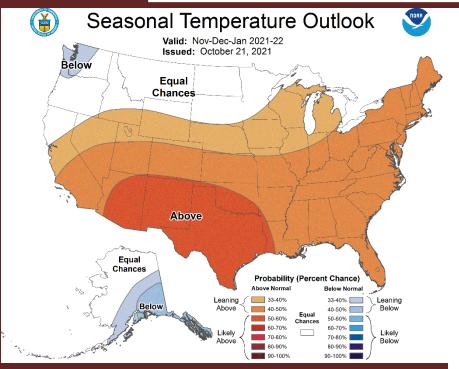


Still some harvest to go –
would add moisture to some
wet areas, help Wisconsin and
UP Mich.

- November outlook
 - Slight chance of warmer Great
 Lakes and Plains
 - Slight chance increased precip
 Great Lakes and far west
 - Outlooks switching to La Niña view

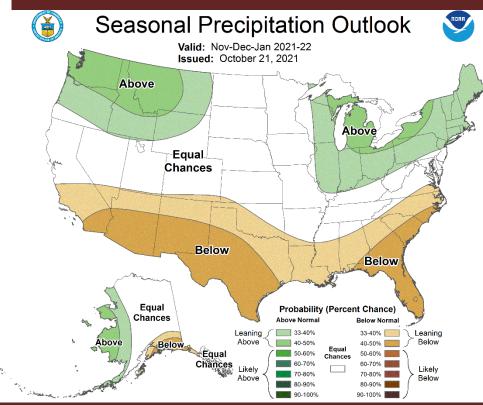


November-January Outlook

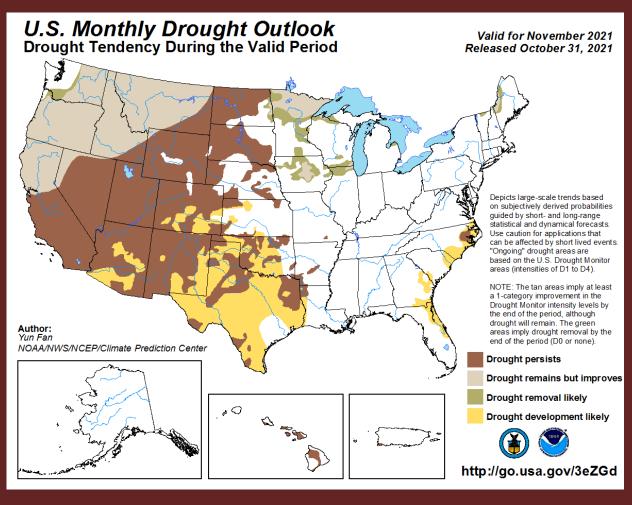


- Better chance precip east later winter.
- Could start causing more soil moisture problems for spring

- La Niña pattern.
- Slight chance warmer south/east.
- Slight chance wetter Great Lakes and far NW.



Drought in the Midwest/Plains



- Monthly outlook for November 2021
- Drought continues with no change in the plains
- Could worsen south with warm/dry possible
- Some improvements
 possible across parts of
 Midwest with expected
 precipitation and from
 precip already fallen
 included in this week's
 map.

Summary

- Crop harvest continuing quickly-slowed by recent rains.
- Soil moisture recovered to too wet in places-more needed in some.
- La Niña impacting winter outlooks.
 - Could lead to excess wetness east.
 - More active could help dry northern areas.

Next MAC-T Monthly Call

Next Call

December or ???