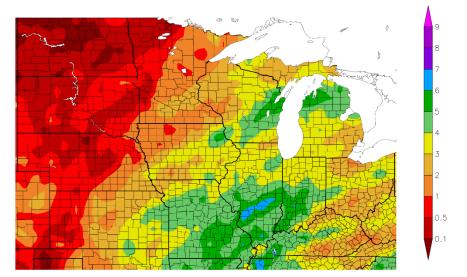
MAC-T Monthly Call

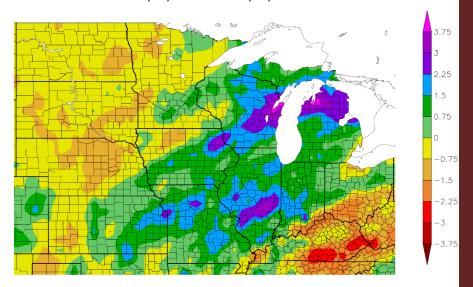
Midwest Agriculture and Climate Team



Precipitation (in) 3/5/2022 - 4/3/2022



Departure from Normal Precipitation (in) 3/5/2022 - 4/3/2022

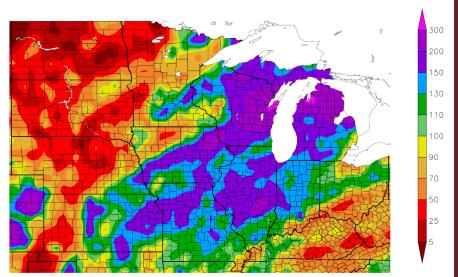


Generated 4/4/2022 at HPRCC using provisional data.

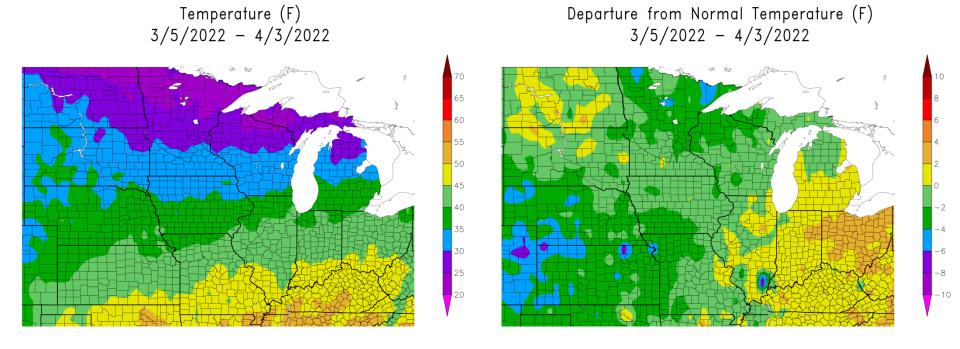
NOM Regional Climate Centers Generated 4/4/2022 at HPRCC using provisional data.

NOAA Regional Climate Centers

Percent of Normal Precipitation (%) 3/5/2022 - 4/3/2022



- Wet conditions east with near double average precipitation again.
- Dry west still less than 1" in many areas.
- Less than 50% average common in plains.
- Some recent drying along Ohio River and into Kentucky.



Generated 4/4/2022 at HPRCC using provisional data.

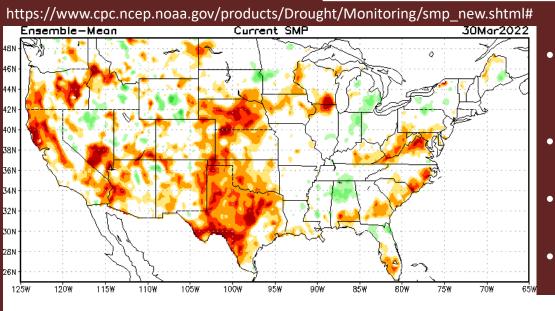
NOAA Regional Climate Centers Generated 4/4/2022 at HPRCC using provisional data.

NOAA Regional Climate Centers

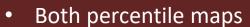
- March mostly colder than average west.
- Slightly warmer east.

Soil Moisture

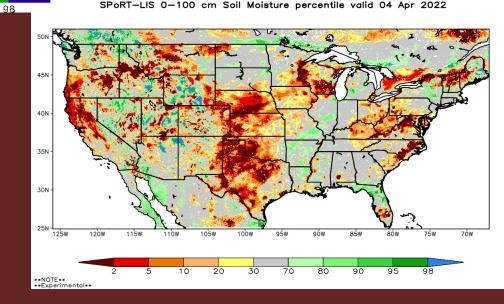
95



- Plains (central/south) soils continue mostly dry with limited precip and warmer temperatures.
- Eastern Corn Belt mostly wetter though some drying in KY.
- Also possibly some wet in eastern Dakotas/Red River Valley.
- Mixed in IA/IL/WI/MN



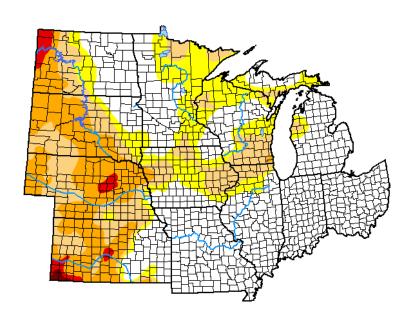
- Upper whole profile
- Lower top 100 cm (~40")



Drought in the Midwest

U.S. Drought Monitor

North Central States



March 29, 2022

(Released Thursday, Mar. 31, 2022)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	49.53	50.47	34.77	17.98	1.80	0.20
Last Week 03-22-2022	42.07	57.93	36.22	15.48	1.56	0.17
3 Month s Ago 12-28-2021	42.28	57.72	27.89	7.91	1.16	0.00
Start of Calendar Year 01-04-2022	44.51	55.49	27.55	7.10	1.31	0.00
Start of Water Year 09-28-2021	39.88	60.12	38.68	24.50	9.27	0.04
One Year Ago 03-30-2021	41.62	58.38	28.33	13.38	5.31	0.00

Intensity:

None

D0 Abnormally Dry

D1 Moderate Drought

D2 Severe Drought
D3 Extreme 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:

Deborah Bathke

National Drought Mitigation Center





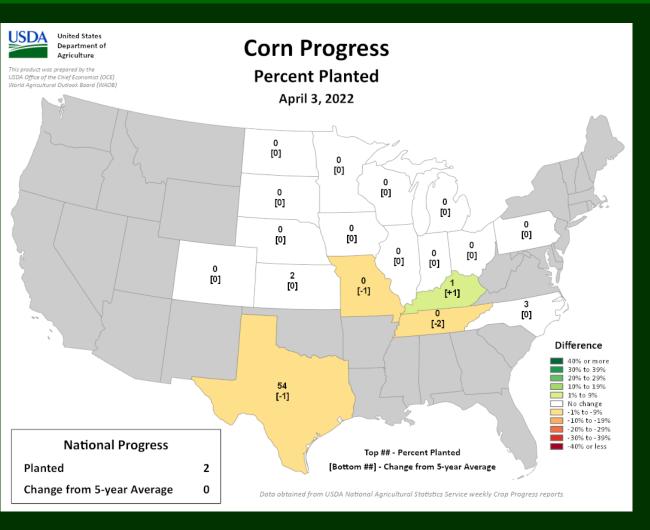




droughtmonitor.unl.edu

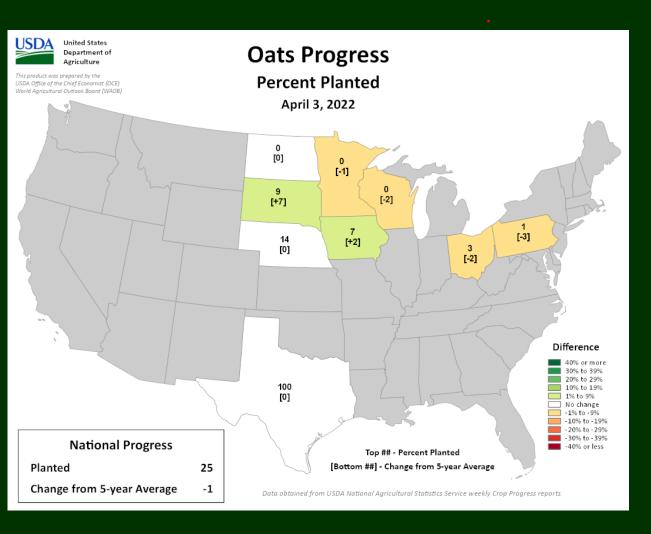
- Mostly drought-free eastern Corn Belt.
- Mixed conditions in IA-MN-WI-IL-MI
- Plains mostly some level of drought.

Corn Conditions (NASS)



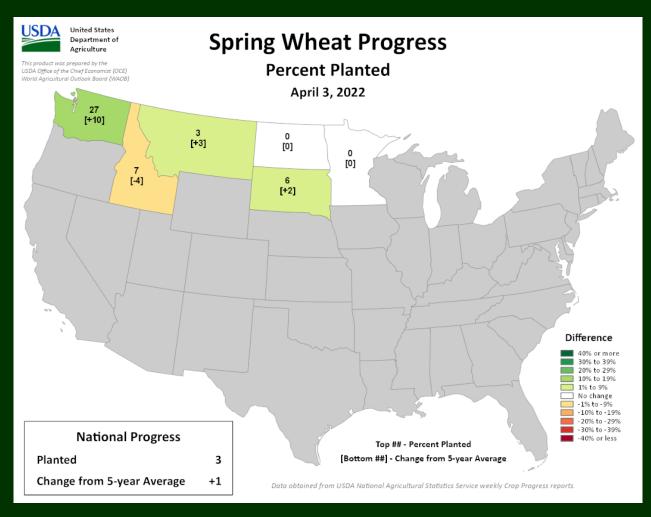
Early data. Corn planting very early (NASS): Planted - lowa 0% (+/-0%) - national 2% (+/-0%).

Oats Conditions (NASS)



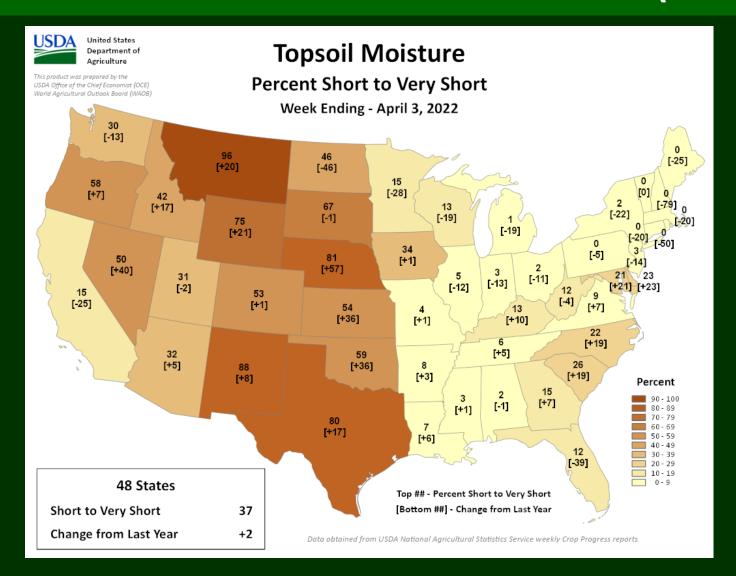
Early data. Oat planting very early (NASS): Planted - lowa 7% (+2%) - nationa 25% (-1%).

Oats Conditions (NASS)



Early data. Spring wheat planting very early (NASS) Planted – South Dakota 6% (+2%) – national 3% +-1%).

Soil Moisture Conditions (NASS)



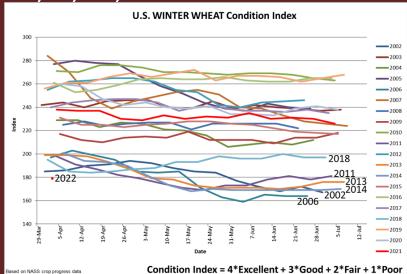


Assorted AG Issues

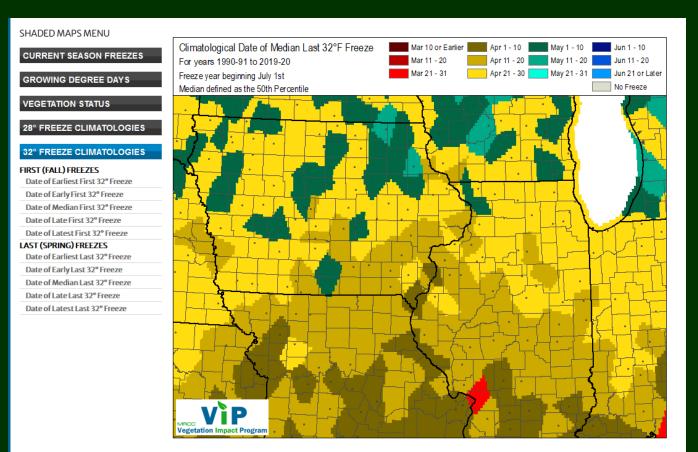
- Plains winter wheat continues dry issues worst initial conditions in 20 year (NASS condition data)
- Probably excess wetness problems in eastern winter wheat
- Lack of precip for rangeland/forage.
- More perennials at risk from a freeze
- Wetness starting to slow progress in eastern states (still early)

Some soil moisture issues eased (KS, MO, IA, WI, MN and some

adjacent areas).



Spring Freeze



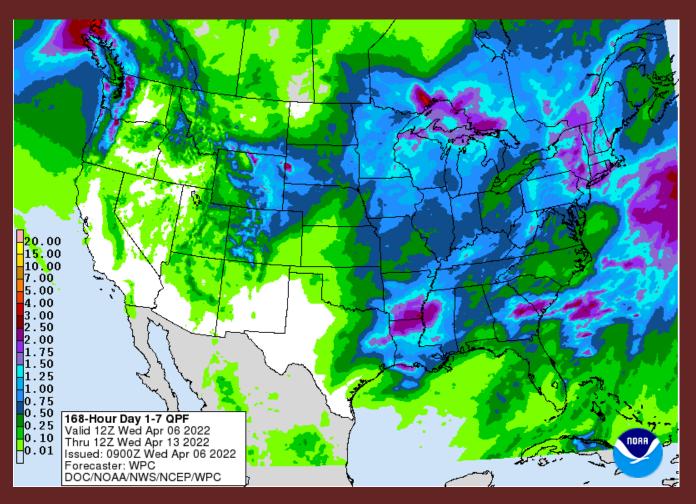
Climatologically whole state is susceptible to freeze (<32 F). Still a week or so out before median last freeze in southern parts of state.

Cold temperatures coming will likely have some sub-freezing temperatures again.

https://mrcc.purdue.edu/VIP/frz maps/freeze maps.html#frzMaps



1-7 Day Precip



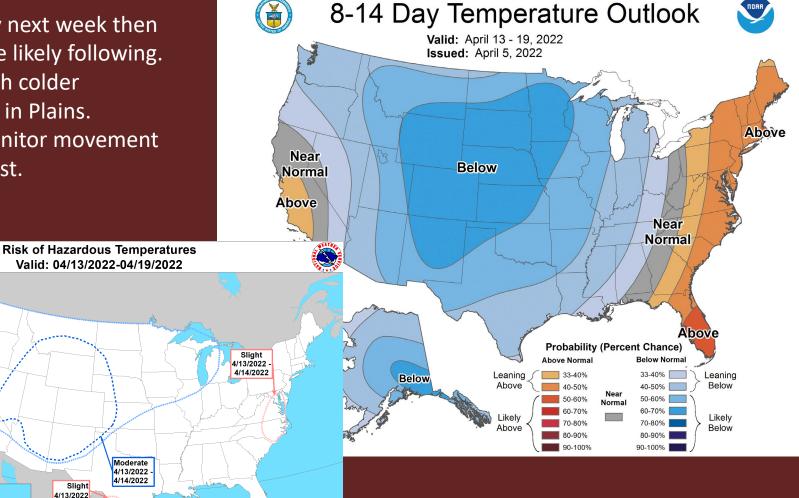
Next 7 days

- Most precipitation east and Great Lakes.
- Less into Plains
- Monitor storm in week 2 period in Plains.

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

Temperature Outlook

- Warm early next week then colder more likely following.
- Risk of much colder particularly in Plains.
- Have to monitor movement into Midwest.



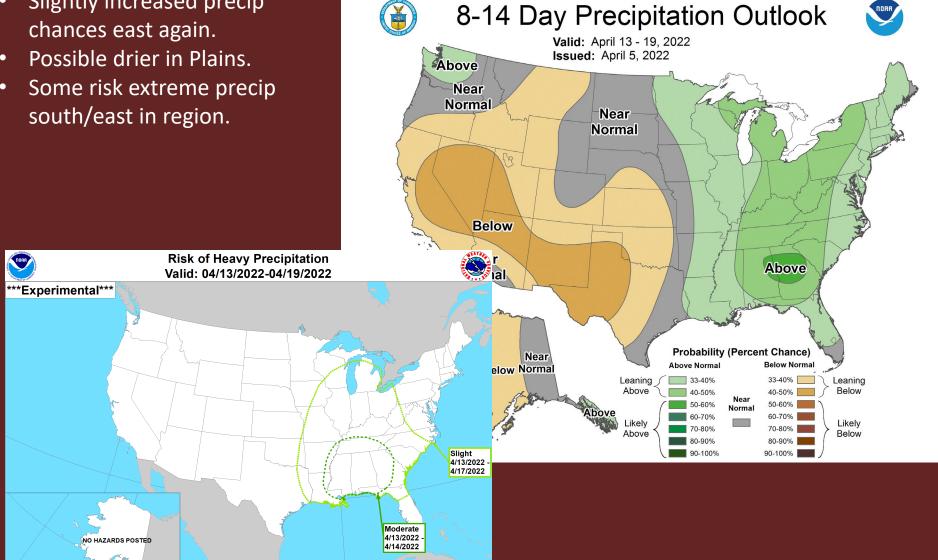
Precipitation Outlook

- Slightly increased precip chances east again.

Climate Prediction Center

Made: 04/05/2022 3PM EDT

south/east in region.



http://www.cpc.ncep.noaa.gov/

☐ High (60%)::::: Moderate (40%)::::: Slight (20%)

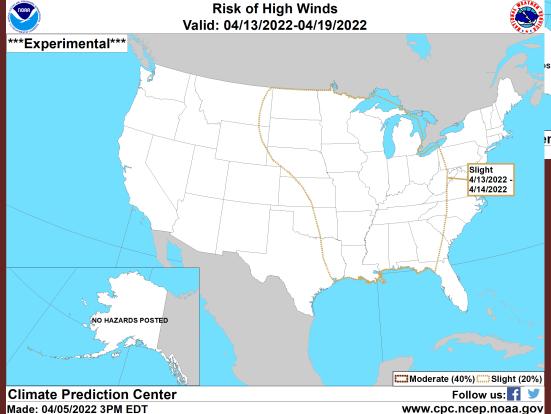
Follow us:

www.cpc.ncep.noaa.gov

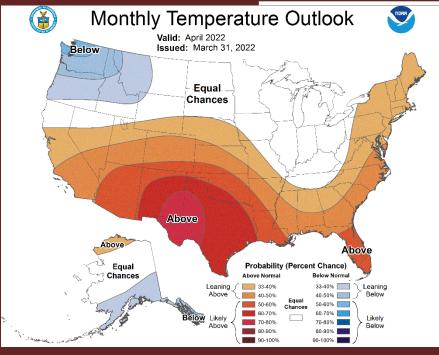
Other Risks

- Slight risk heavy snow Plains
- Slight risk strong winds most everywhere....



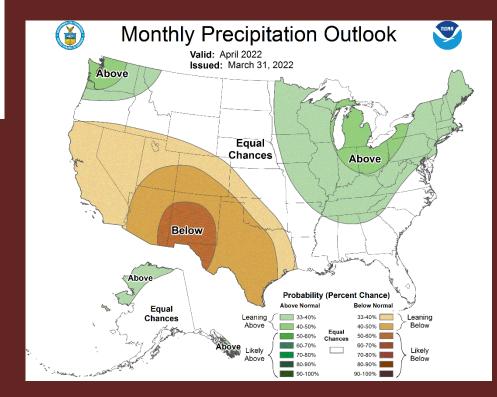


1-Month Outlook

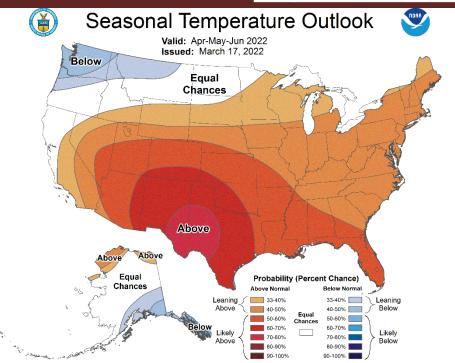


March outlook

- Outlooks continue with La Niña look
- Better chance of wetter Great Lakes/Ohio
 Valley
- Warmer chances in central/southern Plains with drought and La Niña conditions

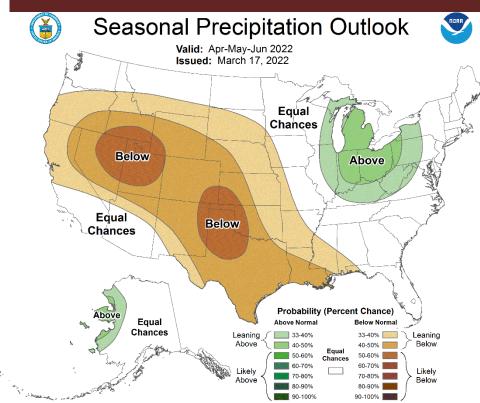


April-June Outlook

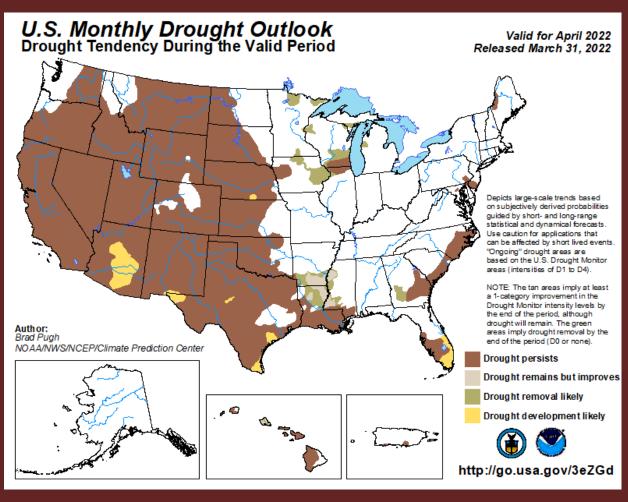


- Concerns about ongoing wetness eastern Corn Belt and planting.
- Increasing drought concerns
 Plains (central/south)

- Still La Niña pattern –relatively small changes
- Slight chance warmer whole area –
 better chance in Plains.
- Slight chance wetter Great Lakes/Ohio Valley (smaller area).
- Drier more likely Plains.



Drought in the Midwest/Plains



- Monthly outlook for April 2022
- Drought continues with little change in the plains
- Some possible improvement MN-WI-IA with near-term precipitation.

Summary

- Wetter conditions east still/Drought west
- Some improvement in between
- La Niña impacting spring outlooks.
 - Could lead to excess wetness east and possible delays in planting.
 - Drought areas unlikely to improve much
 - Northern Plains still unclear with no strong signals.
- Summer drought issues still in play
 - Plains certainly
 - Some risk further east

Next MAC-T Monthly Call

Next Call

May 4, 2022, 9-10am CT