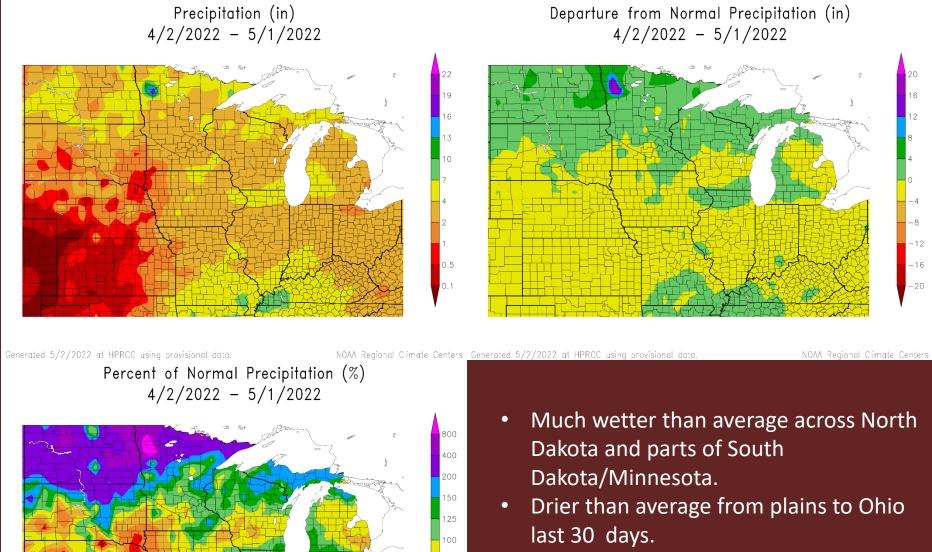
MAC-T Monthly Call Midwest Agriculture and Climate Team

May 3, 2022

For more information:

Dennis.todey@usda.gov





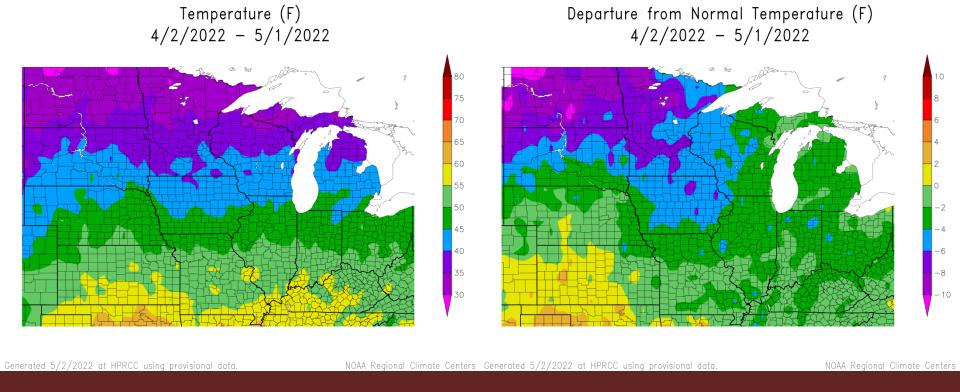
75

 Still very dry Nebraska/Kansas/Colorado

https://hprcc.unl.edu/maps.php?map=ACISClimateMaps

Generated 5/2/2022 at HPRCC using provisional data.

NOAA Regional Climate Centers



- Colder than average nearly everywhere in region.
- Only above average in dry area.
- 4-8+F below average Dakotas to Iowa/Wisconsin

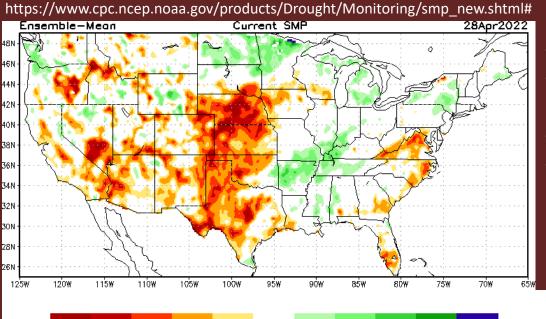
Soil Moisture

95

98

90

80



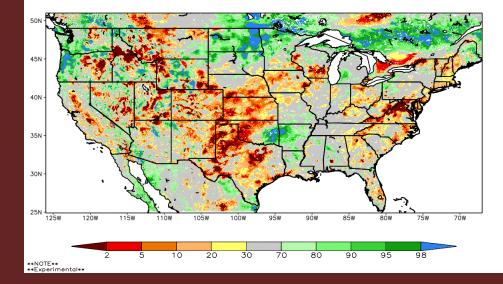
70

- Wetter than average in north
- Wetter also east, though not quite as extreme
- Dry plains
- Mixed still IA and WI/IL border.

SPoRT-LIS 0-100 cm Soil Moisture percentile valid 03 May 2022

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

10



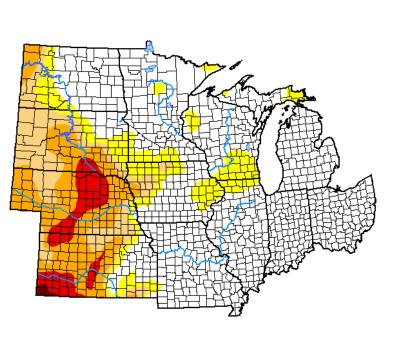
https://weather.msfc.nasa.gov/sport/case_studies/lis_CONUS.html

Drought in the Midwest

U.S. Drought Monitor North Central States

April 26, 2022

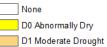
(Released Thursday, Apr. 28, 2022) Valid 8 a.m. EDT



Drought Conditions	(Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	61.80	38.20	27.00	17.45	4.82	0.22
Last Week 04-19-2022	56.84	43.16	30.97	19.44	4.72	0.22
3 Month s Ago 01-25-2022	40.98	59.02	29.50	8. 12	1.32	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 04-27-2021	40.19	59.81	31.94	13.67	9.59	0.00

Intensity:



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

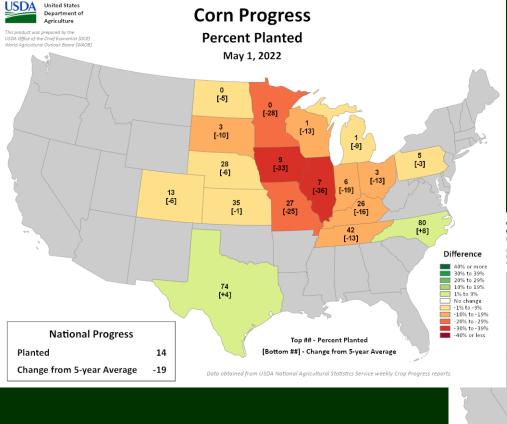
<u>Author:</u> Brad Rippey U.S. Department of Agriculture



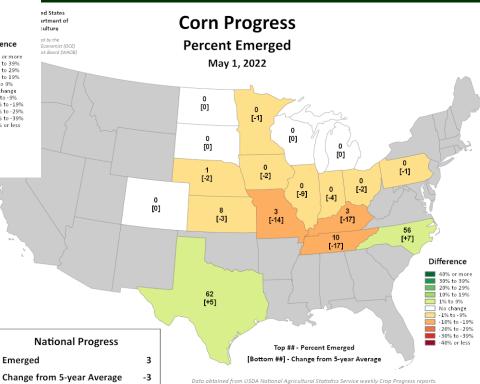
droughtmonitor.unl.edu

- More easing of drought very limited drought most of Corn Belt
- Still serious drought issues Plains
- Upcoming precip likely to help that area (at least temporarily)

Corn Conditions (NASS)

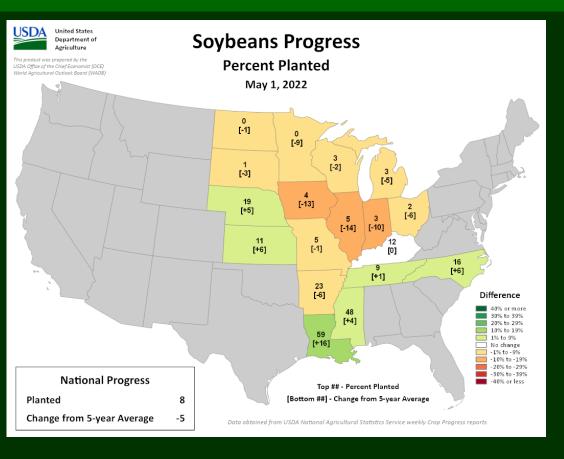


Corn progress (NASS): Planted -Iowa 9% (-33%) – National 14% (-19%). Emerged - Iowa 0% (-2%) – National 3% (-3%).





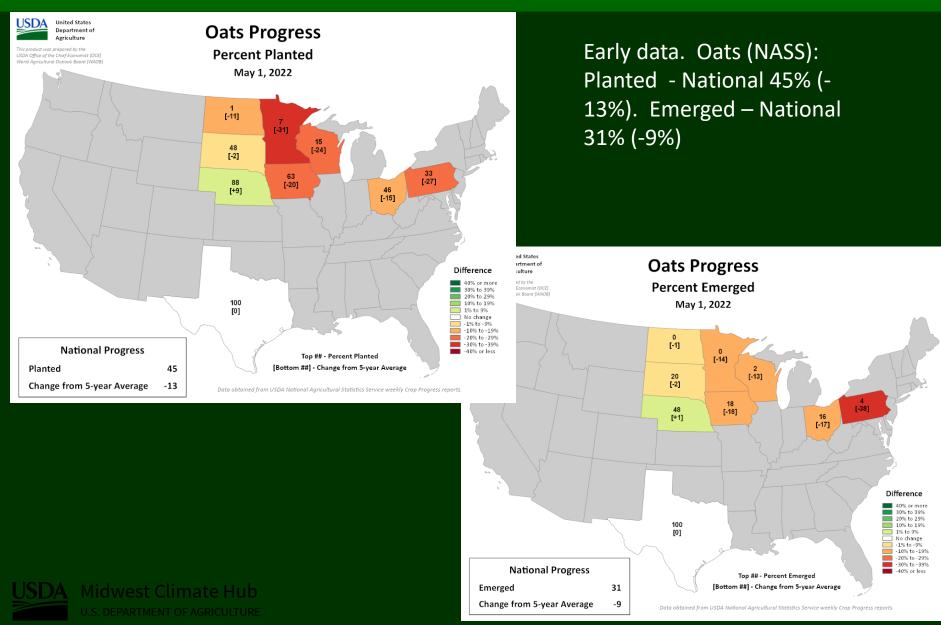
Bean Conditions (NASS)



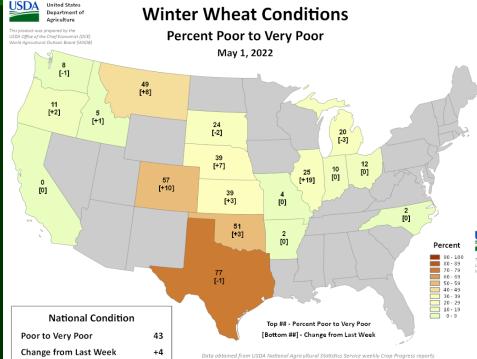
Corn progress (NASS): Planted -Iowa 4% (-13%) – National 8% (-5%). Emerged - National - NR



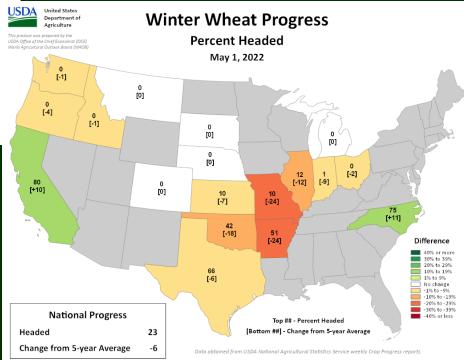
Oats Conditions (NASS)



Wheat Conditions (NASS)

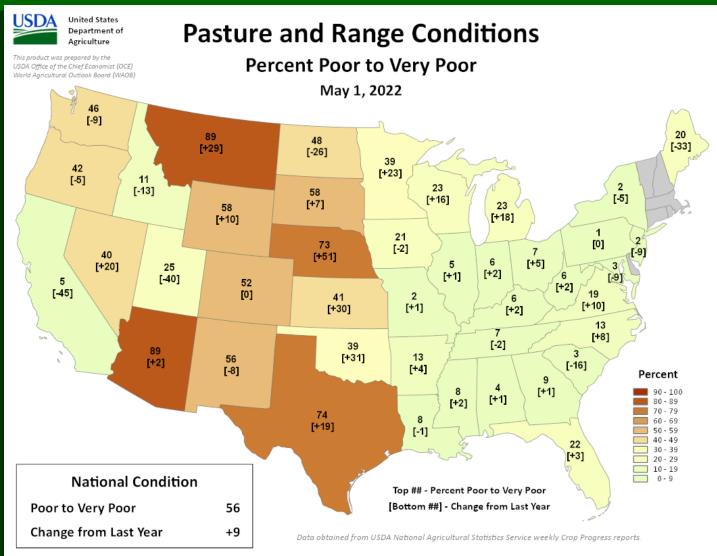


Winter wheat (NASS) : Headed – National 23% (-6%). Condition – P-VP National 43% (+4%)





Pasture/Range Conditions (NASS)



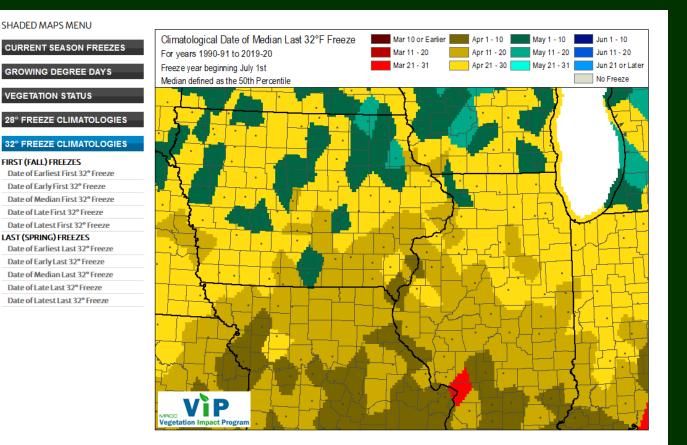
Midwest Climate Hub

Pasture-Range P-VP (NASS): National 56% (+9%). Worst at this point in season since 2000.

Assorted AG Issues

- Planting progress slowed by cool/wet conditions central-east.
 Starting to make some progress this week.
- Some progress small grains in dry Plains
- Delayed development in winter wheat, other perennials
- Good for some delayed development avoided some freeze issues
- Freezes so far have not been too damaging?
- Livestock losses in blizzards
- Pasture-range conditions very poor as is winter wheat.

Spring Freeze



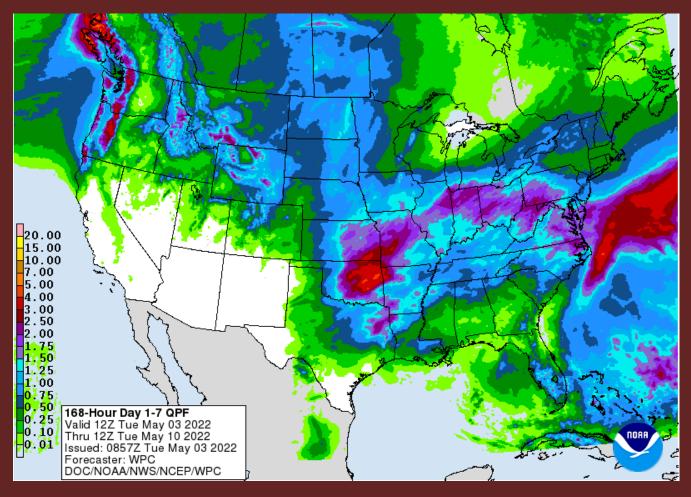
Climatologically whole state is susceptible to freeze (<32 F). Still a week or so out before median last freeze in southern parts of state.

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



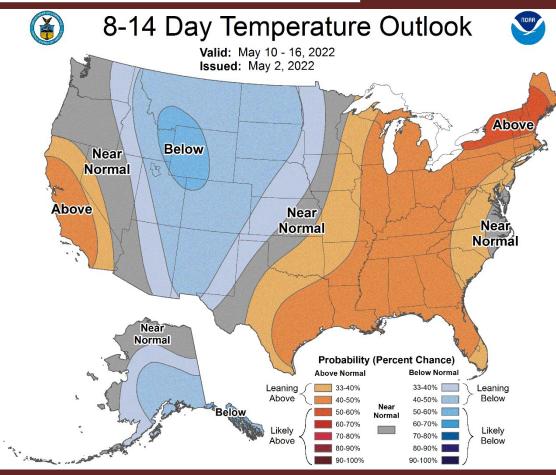
Next 7 days

- More active pattern to continue over most of region
- Heavier precip southeast
- Some even into plains

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

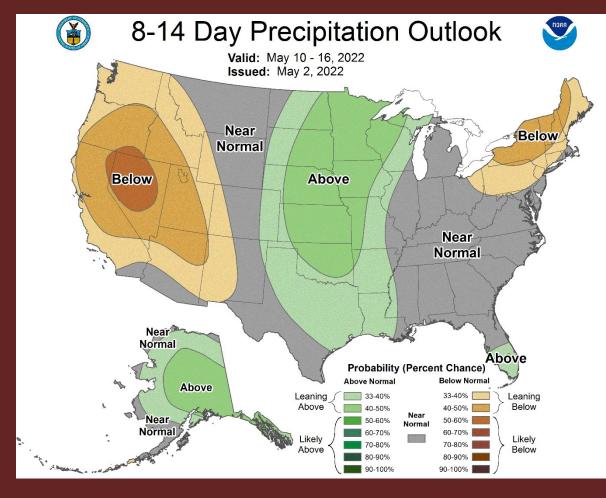
Temperature Outlook

- Warmth this weekend into early next week central eastern Corn Belt
- Better chance colder plains



Precipitation Outlook

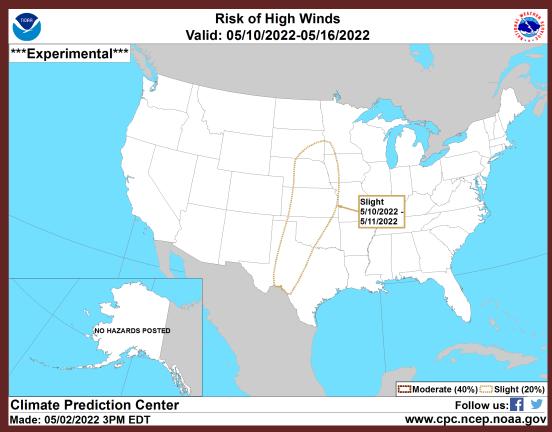
- Increased chances for precip continues central particularly
- Would help plains states more



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

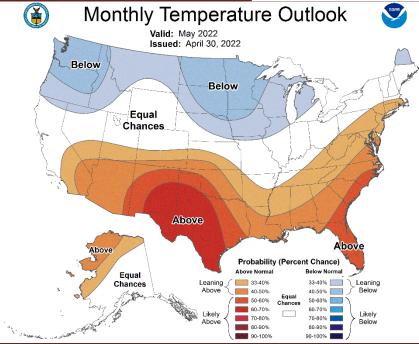
Other Risks

- Slight risk strong winds in the plains
- Seems to go without saying this year

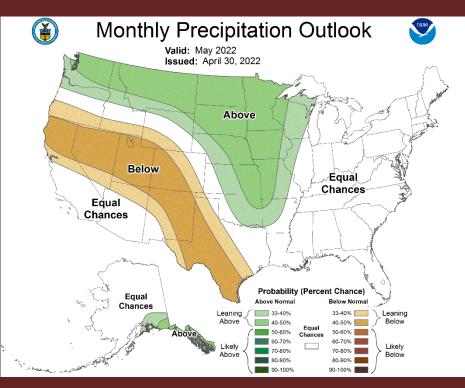


<u>1-Month Outlook</u>

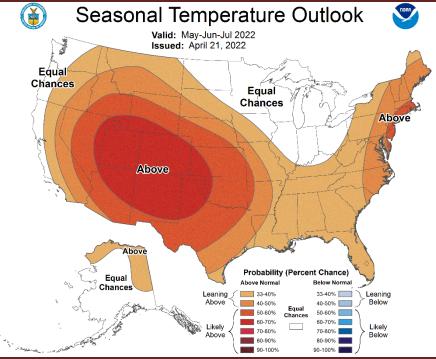
•



- May outlook
 - Better chance cooler north/warmer possible dry areas Plains
 - Better chance wetter Plains to Central Corn Belt.
 - Both probabilities weak, but would continue current pattern.

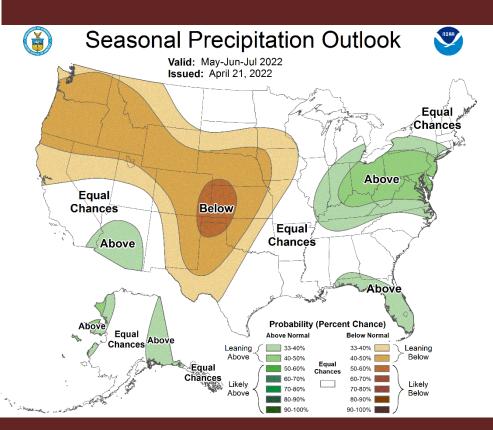


May-July Outlook

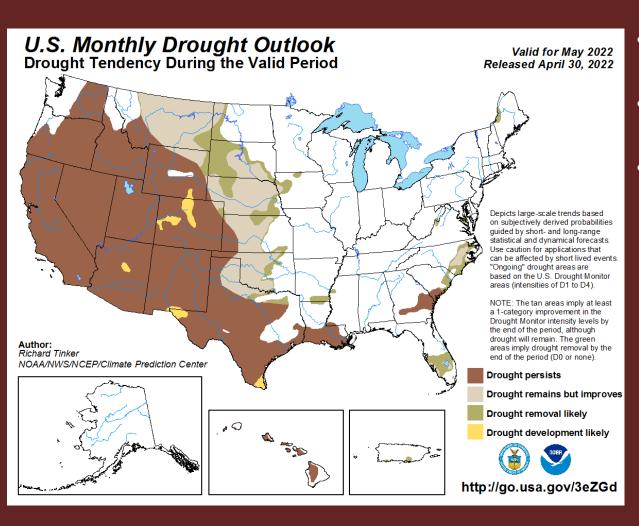


 Concern about drought returning Plains (central/south)

- Still La Niña pattern also soil moisture and computer model influence.
- Slight chance warmer whole area better chance in Plains. Better south.
- Slight chance wetter Ohio Valley (smaller area).
- Drier more likely Plains into Iowa.



Drought in the Midwest/Plains



- Monthly outlook for May 2022
- Recent precipitation and forecast next 1-2 weeks
- Shows chances of improvement much of Plains.

<u>Summary</u>

- Wetter conditions wide spread, except plains. Not all above avg. precip – lack of evap important
- Drought improving but can't ignore for summer
- Field work progress generally slow
- Summer drought issues still in play
 - Plains certainly
 - Some risk further east

Next MAC-T Monthly Call

Next Call June 1, 2022, 9-10am CT