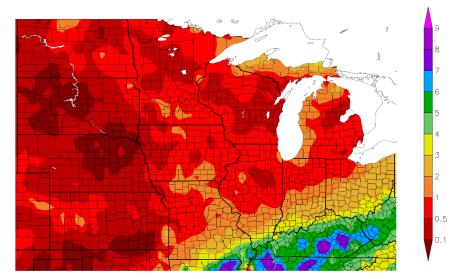
#### **MAC-T Monthly Call**

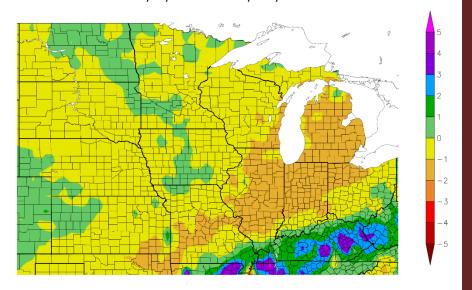
Midwest Agriculture and Climate Team



Precipitation (in) 1/1/2022 - 1/30/2022



Departure from Normal Precipitation (in) 1/1/2022 - 1/30/2022

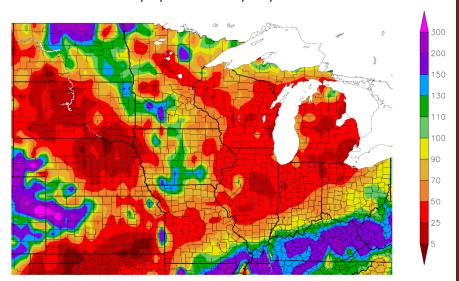


Generated 1/31/2022 at HPRCC using provisional data.

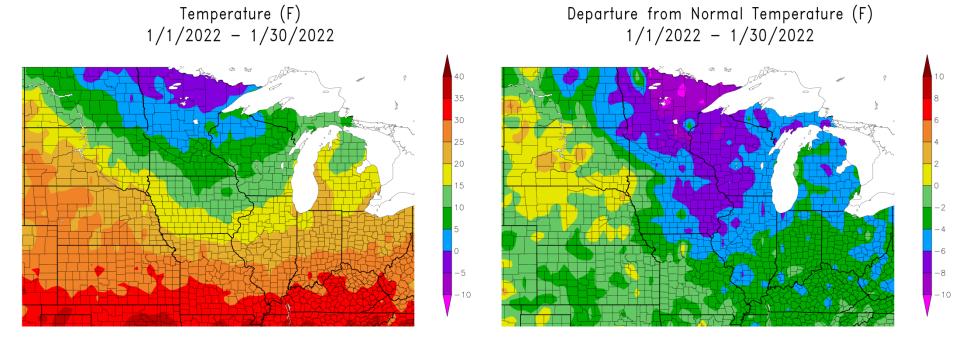
NOM Regional Climate Centers Generated 1/31/2022 at HPRCC using provisional data.

NOAA Regional Climate Centers

#### Percent of Normal Precipitation (%)1/1/2022 - 1/30/2022



- Fairly limited precipitation for January
- Ohio Valley and other pockets above average.
- Most below average (large area less than 50%)



Generated 1/31/2022 at HPRCC using provisional data.

NOAA Regional Climate Centers Generated 1/31/2022 at HPRCC using provisional data.

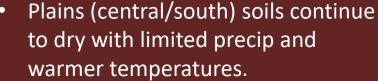
NOAA Regional Climate Centers

- January flipped from December to be much cooler than average.
- Snow covered area north central coldest (up to 10 F below average)
- Plains (no snow) near to above average.

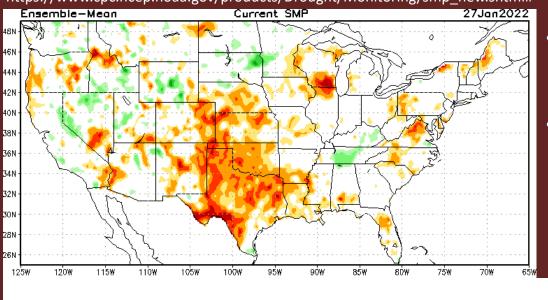
#### Soil Moisture

95

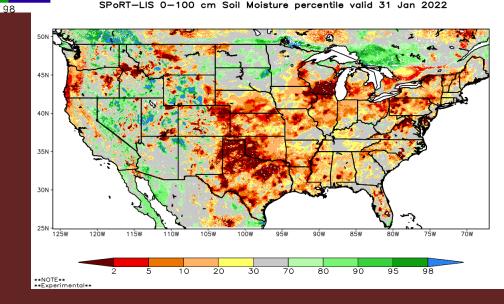




Eastern Corn Belt some drying though NASA model may be drying a bit too much.

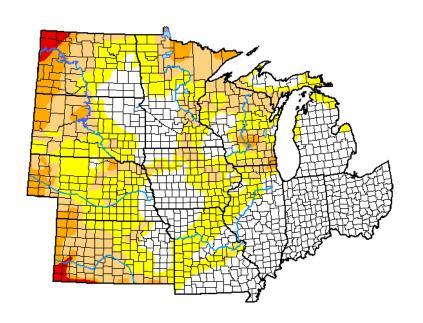


- Both percentile maps
- Upper whole profile
- Lower top 100 cm (~40")



### Drought in the Midwest

#### U.S. Drought Monitor North Central States



#### **January 25, 2022**

(Released Thursday, Jan. 27, 2022) Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	40.98	59.02	29.50	8. 12	1.32	0.00
Last Week 01-18-2022	43.38	56.62	29.13	7.65	1.25	0.00
3 Month's Ago 10-26-2021	46.25	53.75	31.29	14.74	1.87	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 01-26-2021	37.56	62.44	39.02	14.62	3.99	0.00

#### Intensity:

\_\_\_\_\_ None \_\_\_\_\_\_ D2 S \_\_\_\_\_\_ D3 B

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:

**Brad Rippey** 

U.S. Department of Agriculture









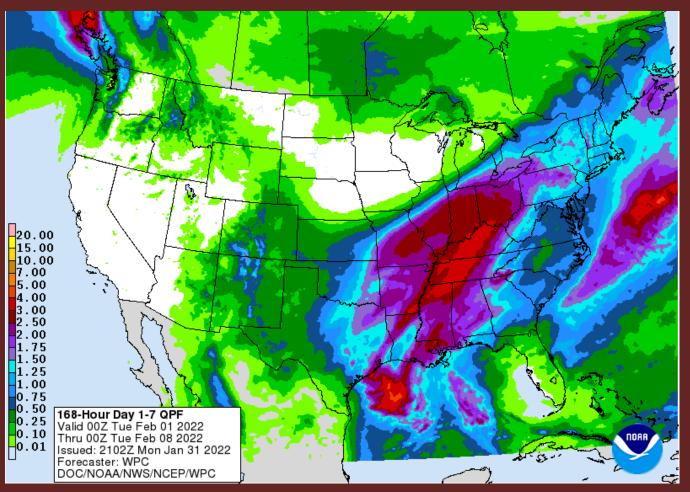
droughtmonitor.unl.edu

- Plains still have most USDM coverage and the worst overall conditions.
- Northern areas still some coverage also.
- Drying east now showing issues yet.
- USDM changes are fairly slow during the cold season.

#### Assorted AG Issues

- Flip to colder conditions had mixed ag effects
- Cold and snow in Ohio eased mud issues for now and provided cover.
   But likely some wheat and alfalfa freeze damage
- Cold/warm cycling (and wet) in Illinois has damaged winter wheat. Frozen ground is limiting horseradish harvest (digging).
- Cold in Iowa damaged high tunnel greens that had grown more lush in December. Also leading to more heaters running and increased cost.
- Central plains winter wheat has been affected by ongoing drought.
   Have to wait for spring to know full effect.
- Non-Midwestern issue that could help Midwest. Recent cold likely damaged southeast US blueberries (Georgia).

#### 1-7 Day Precip



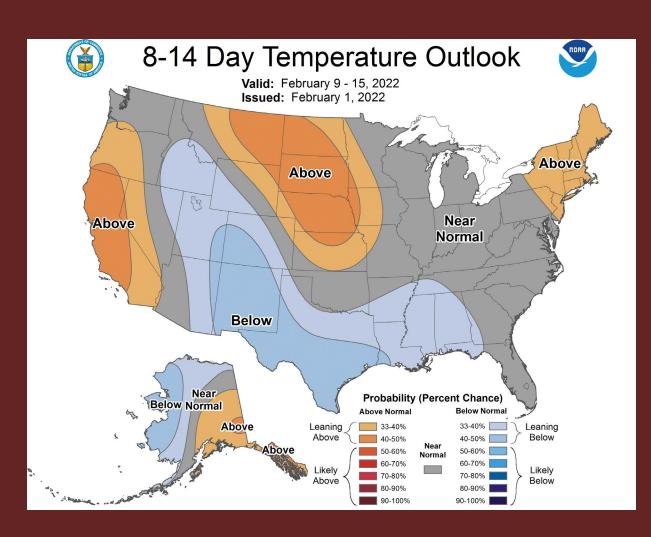
#### Next 7 days

- Major storm ramping up through Plains and much of eastern Corn Belt with a mixture of precipitation (rain/snow/ice) with a band of very large snow accumulation.
- Likely increased soil wetness post-event.
- Mostly dry northern plains.
- Cold will follow later in the week.

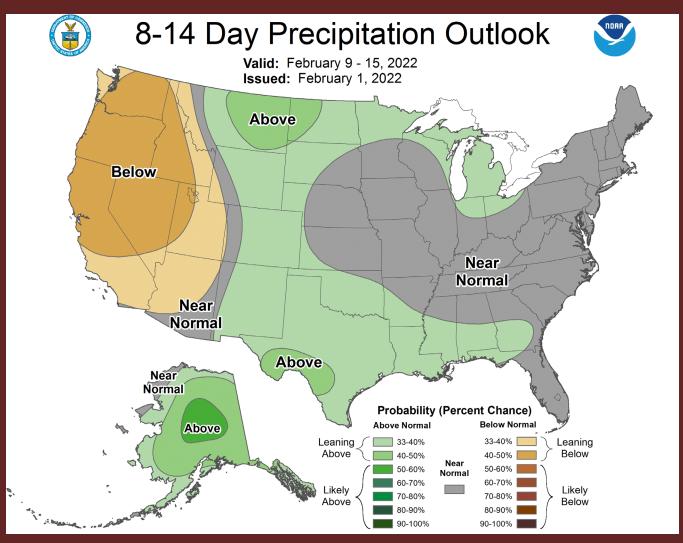
http://www.wpc.ncep.noaa.gov/qpf/day1-7.shtml

#### Temperature Outlook

Quick recovery from cold to warmer slightly more likely Northern Plains

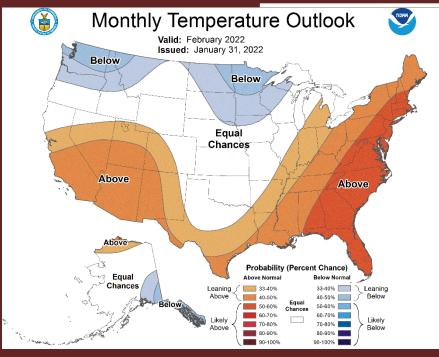


## Precipitation Outlook

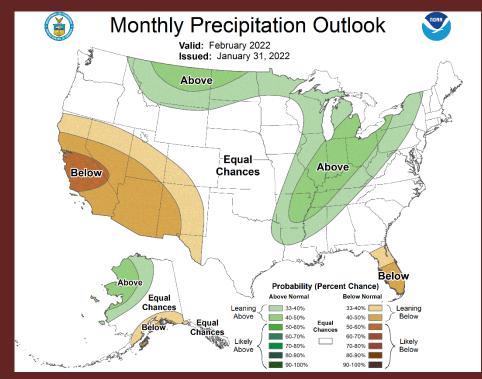


- Slightly increased precip chances northern Plains.
- Mostly near-normal elsewhere.

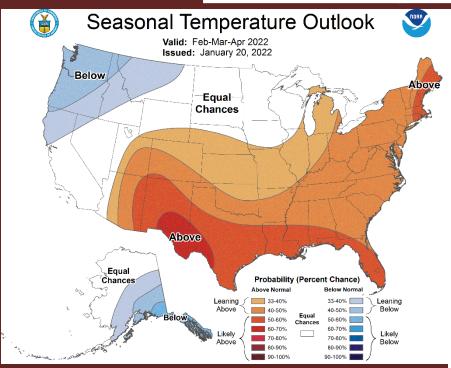
### 1-Month Outlook



- February outlook
  - Outlooks continue with La Niña look
  - Better chance of wetter Northern Plains into Great Lakes/Ohio Valley
  - Colder also possible north with slight chance warmer than average east.
  - Likely more bouncing around in temperatures

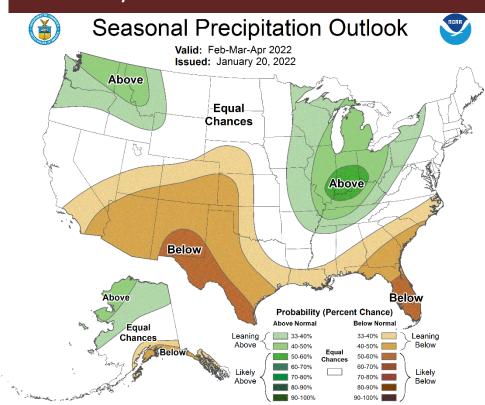


# February-April Outlook

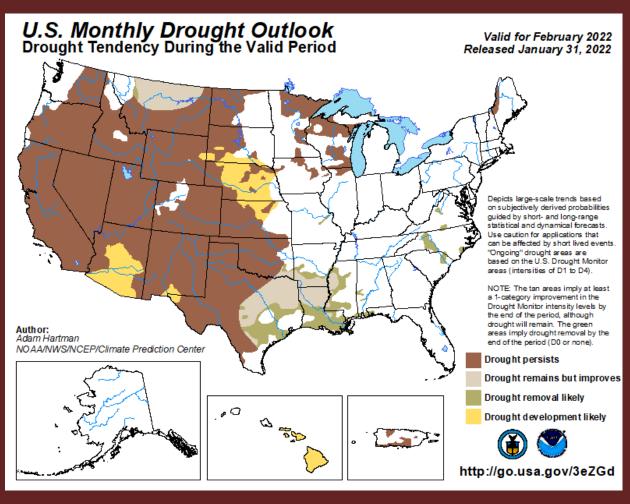


- Recent dryness may ease some concerns for wetness eastern Corn Belt.
- Increasing drought concerns Plains (central/south)

- Still La Niña pattern –relatively small changes
- Slight chance warmer south/east returns.
- Slight chance wetter Great Lakes/Ohio Valley and far NW.



### Drought in the Midwest/Plains



- Monthly outlook for February 2022
- Drought continues with little change in the plains
- Could see expansion.
- Improvements less likely as wettest area outside drought regions.

#### <u>Summary</u>

- Despite off-season, still impacts to various crops around the region.
- La Niña impacting late-winter/spring outlooks.
  - Could lead to excess wetness east and possible delays in planting.
  - Drought areas unlikely to improve much and could see some worsening in Plains (central/south).
  - Northern Plains still unclear with no strong signals.

## **Next MAC-T** Monthly Call

**Next Call** 

March 2, 2022, 9-10am CT