# MAC-T Monthly Call

## Midwest Agriculture and Climate Team

**March 2, 2020**

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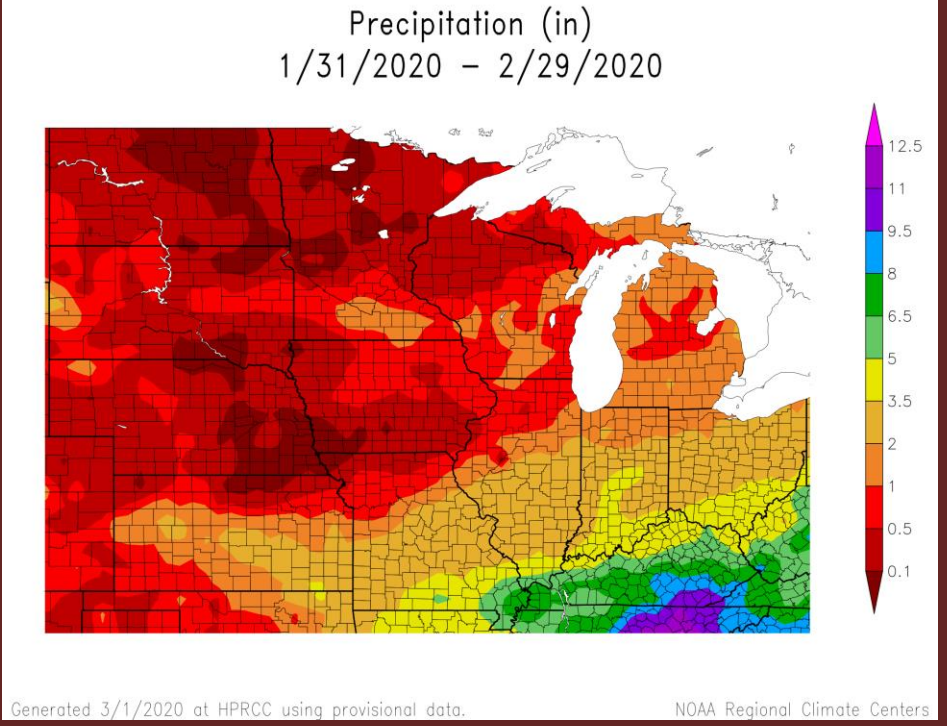
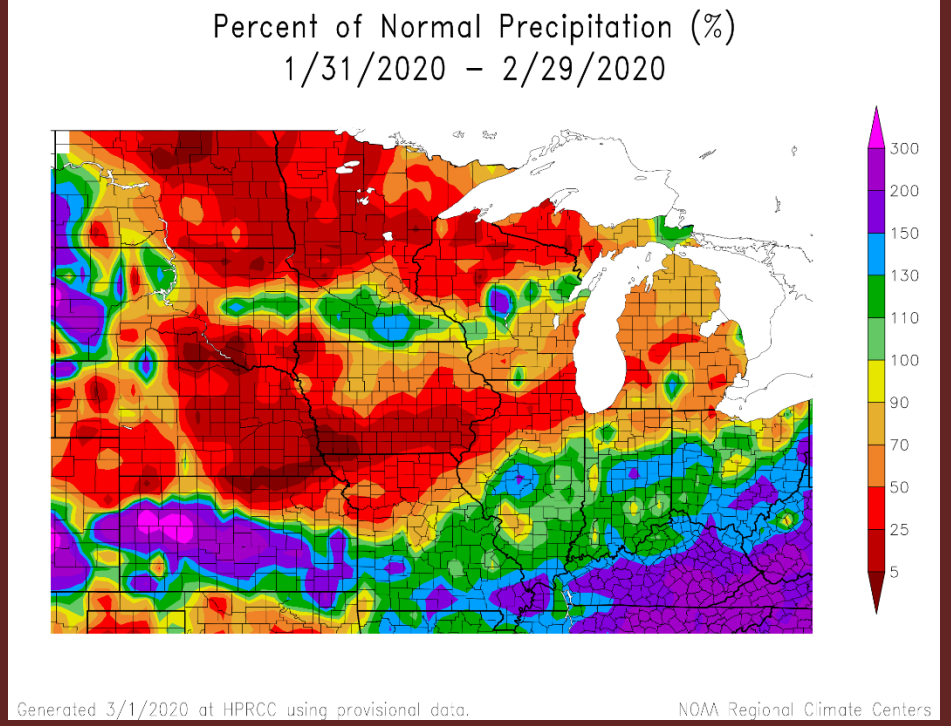
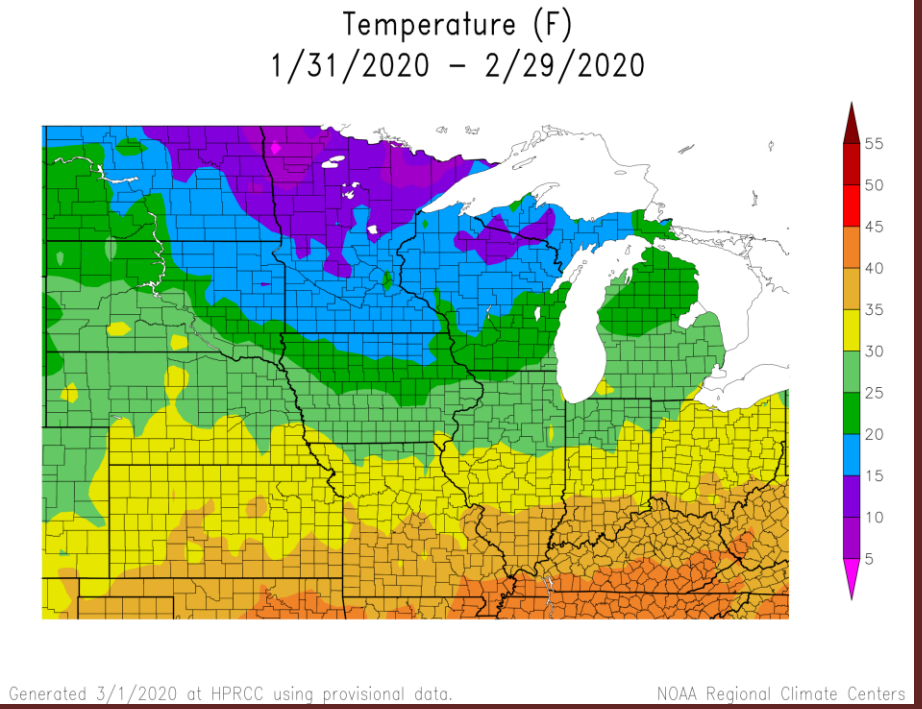
USDA Midwest Climate Hub
U.S. DEPARTMENT OF AGRICULTURE

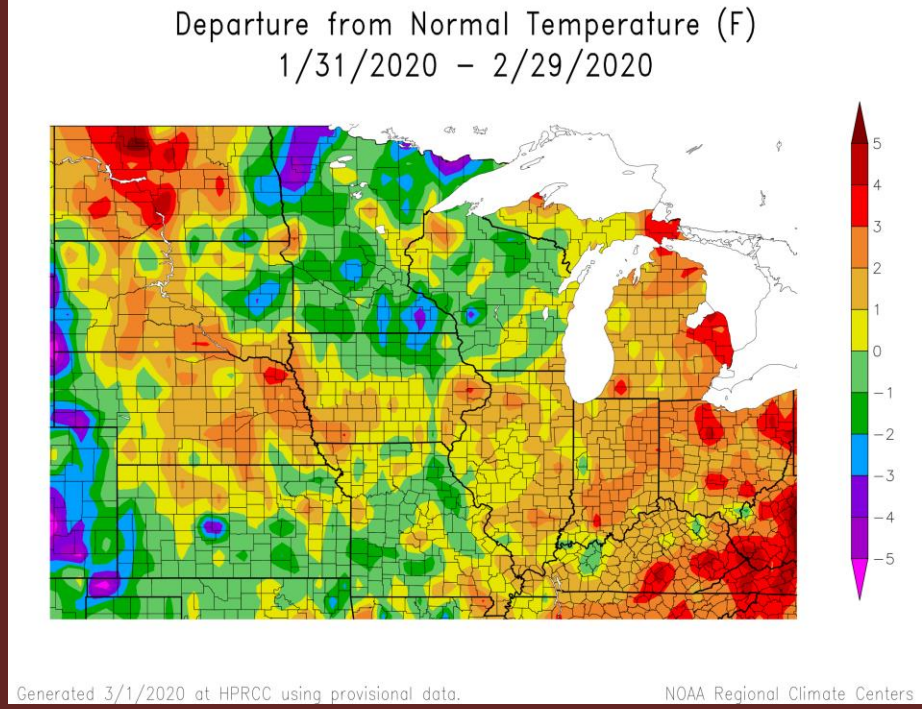



- Quieter month for precipitation. Limited precip over chunks of the central and northern part of the region.
- Some wetter than average far south.
- Some locations nearly no precip in Feb.
- But deficits are not too large during this period.

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

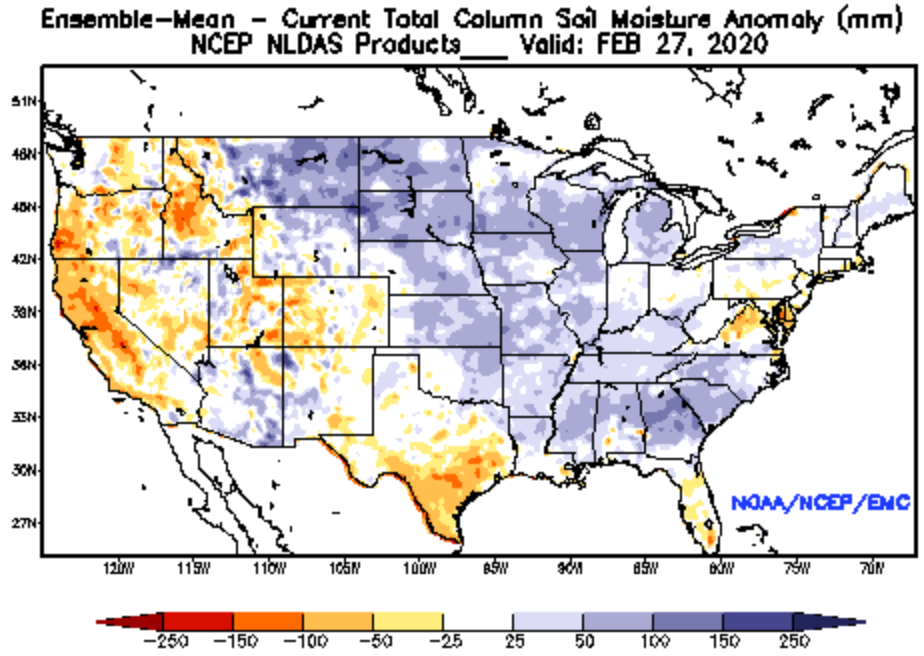


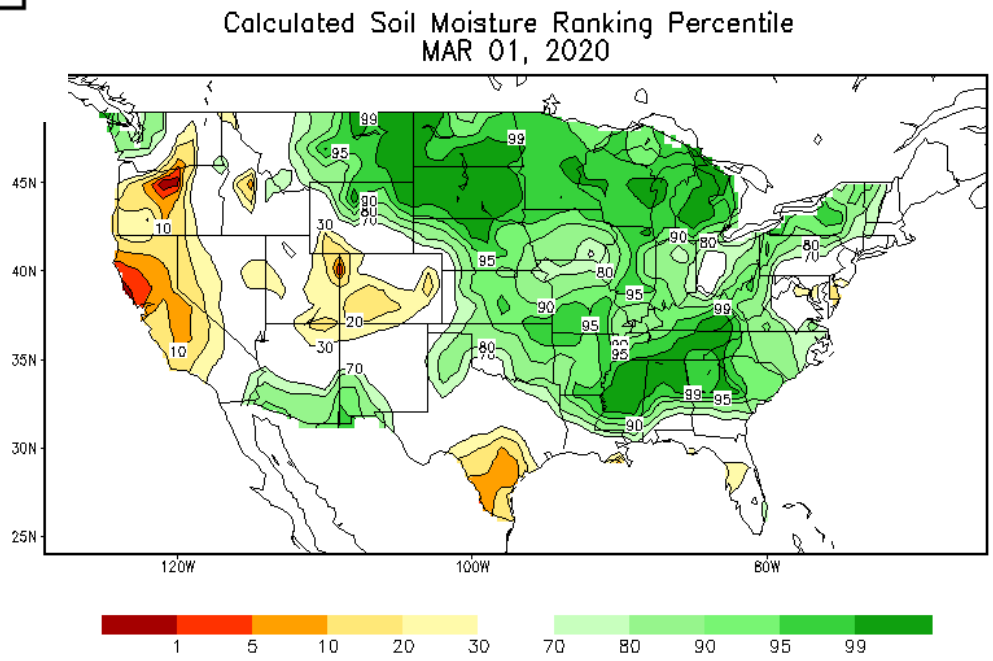

- Split parts with colder than average centered on MN and far south. Warmer elsewhere,
- Coldest mainly over snow-covered areas.
- Warmth east could cause issues for perennials

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

# Soil Moisture



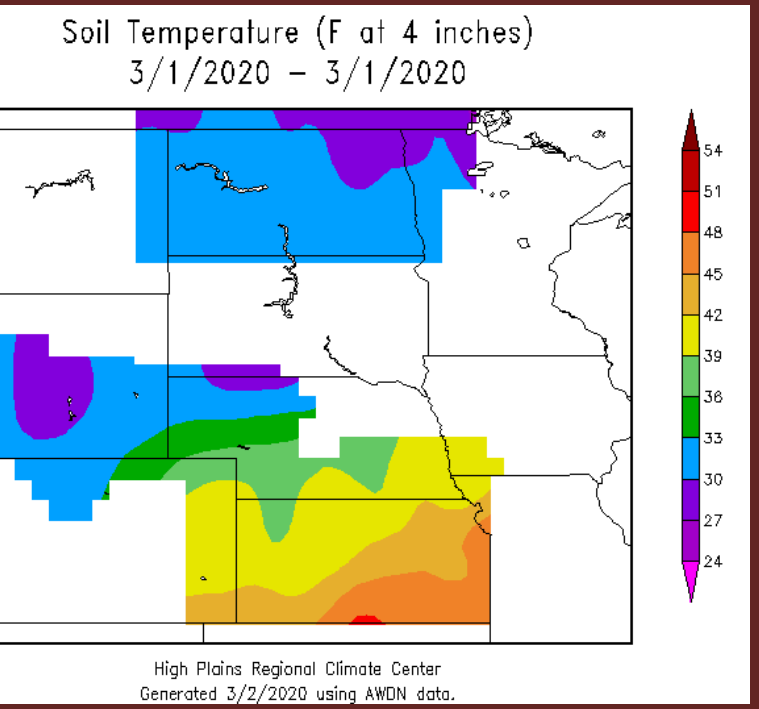

- Modeled soil moisture – still mostly wetter than average.
- Missouri Basin states wetter particularly and north.
- Wet but not quite as bad elsewhere.
- Will still be an issue with spring field work.

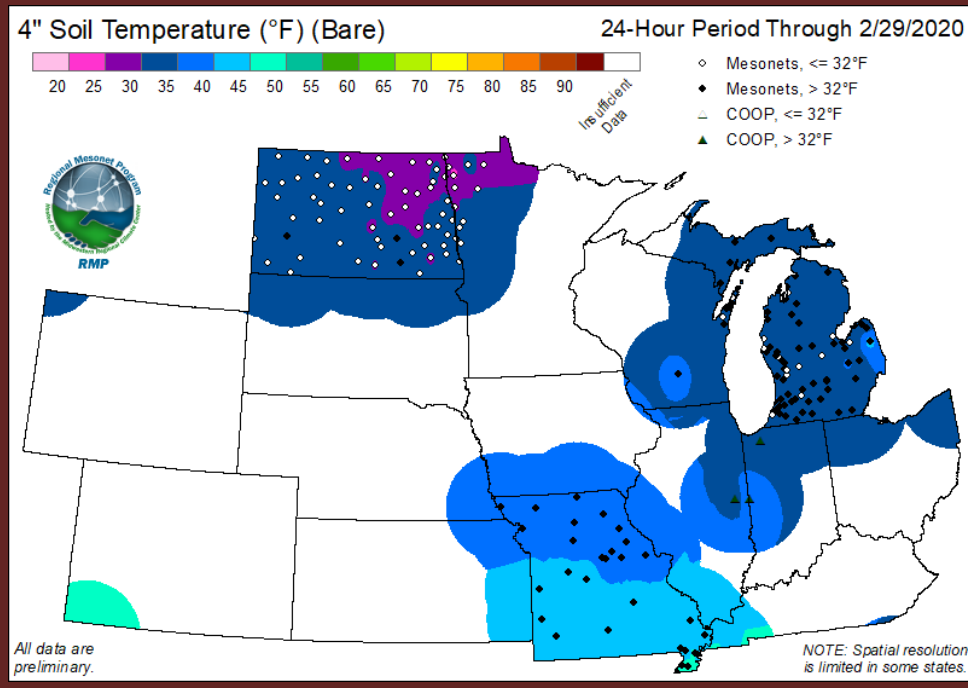



http://www.emc.ncep.noaa.gov/mmb/nldas/drought/

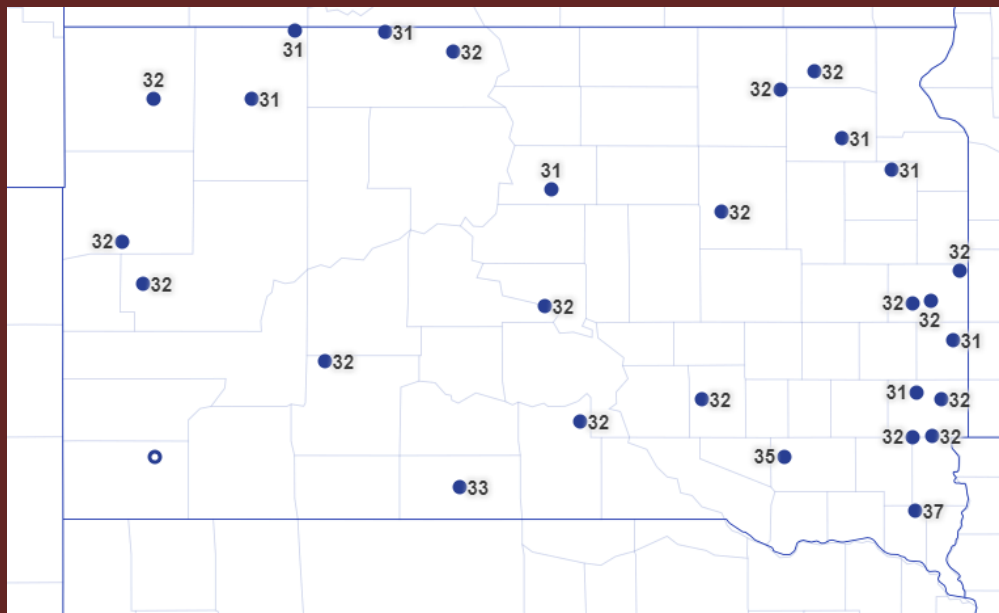
http://www.cpc.ncep.noaa.gov/products/Soilmst_Monitoring/US/Soilmst/Soilmst.shtml#

# Soil Temperature




- Soils still mainly frozen north (ND, part of SD and MN)
- Frost depths (not pictured) are fairly shallow.




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

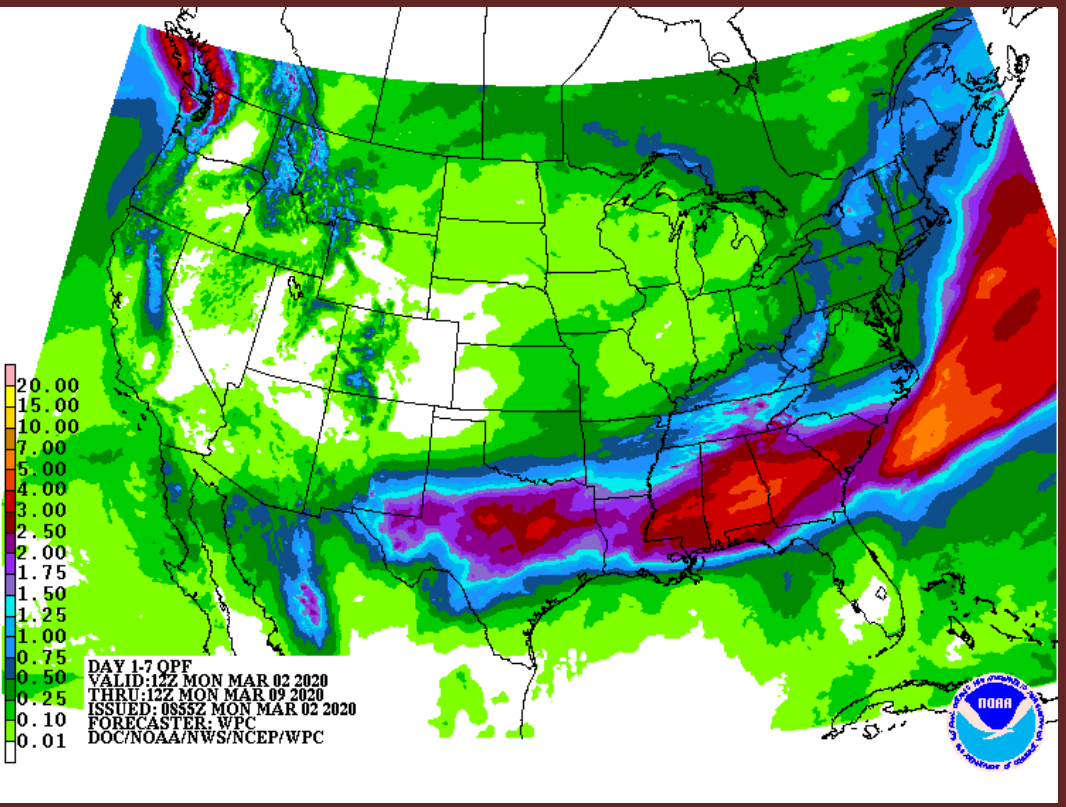
# Assorted AG Issues

- Wet soils will again limit field work (pending additional pcp).
- Compaction and soil/nutrient losses could be problems again
- Concerned about current and March warmth in regard to potential freeze.

- Still crops to be harvested
- Grain storage issues and human losses

- Monitoring spring outlooks for planting.

# 1-7 Day Precip

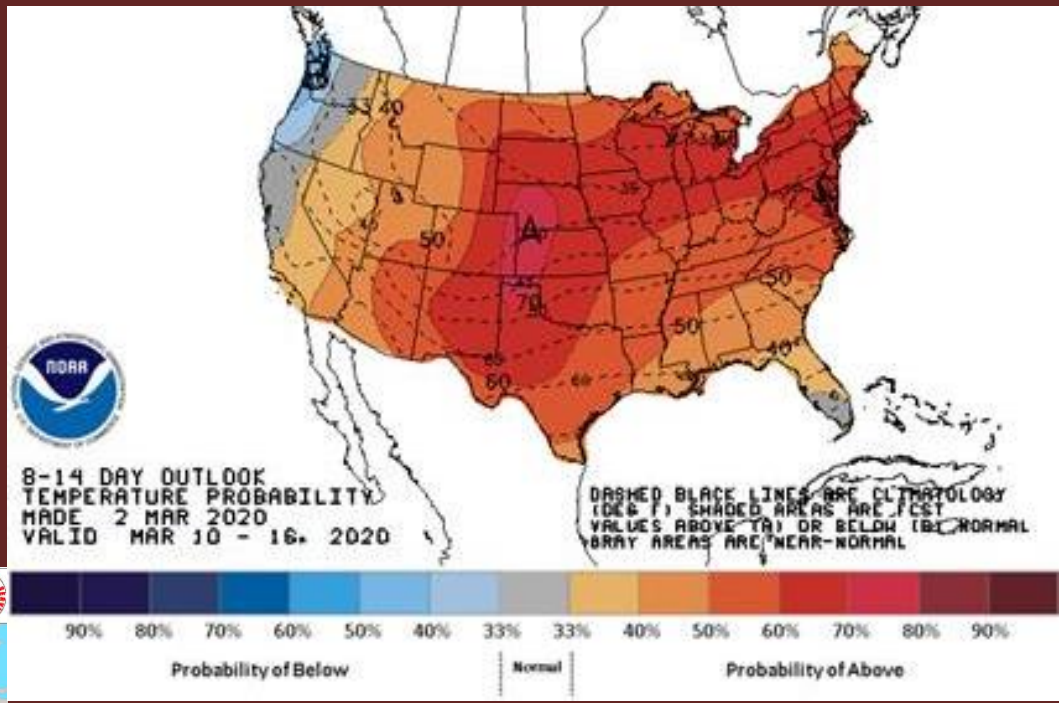


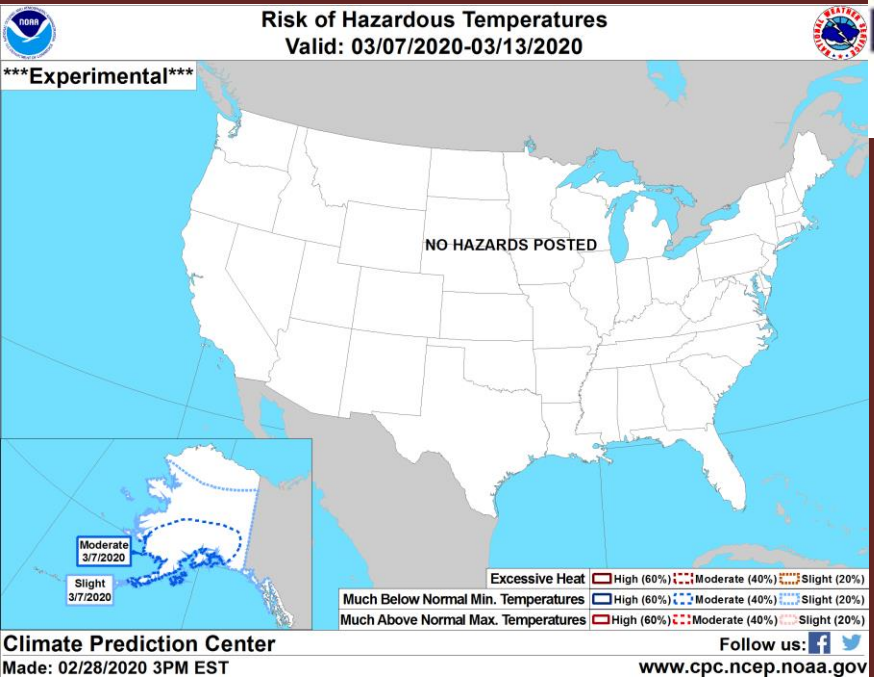

- Mostly light precip over nearly the whole region.
- A little more farther south.

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

# Temperature Outlook

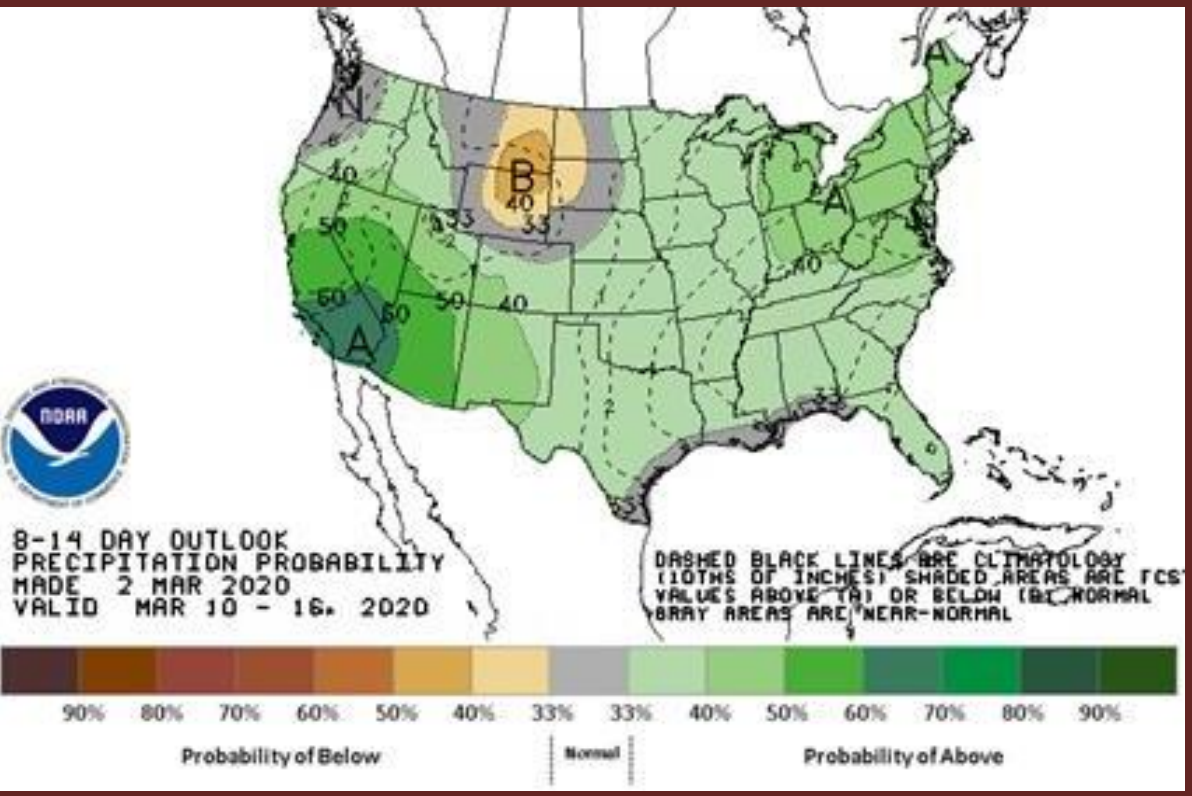
- Early March looks warm over nearly the whole area.
- Will melt snow and lead to runoff (flood issues likely).
- Will dry and start warming soils.




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

# Precipitation Outlook




- Precip outlooks seems to the the least confident right now.
- Still leaning wet for most of the area.
- With wet soils this is still not a good situation.

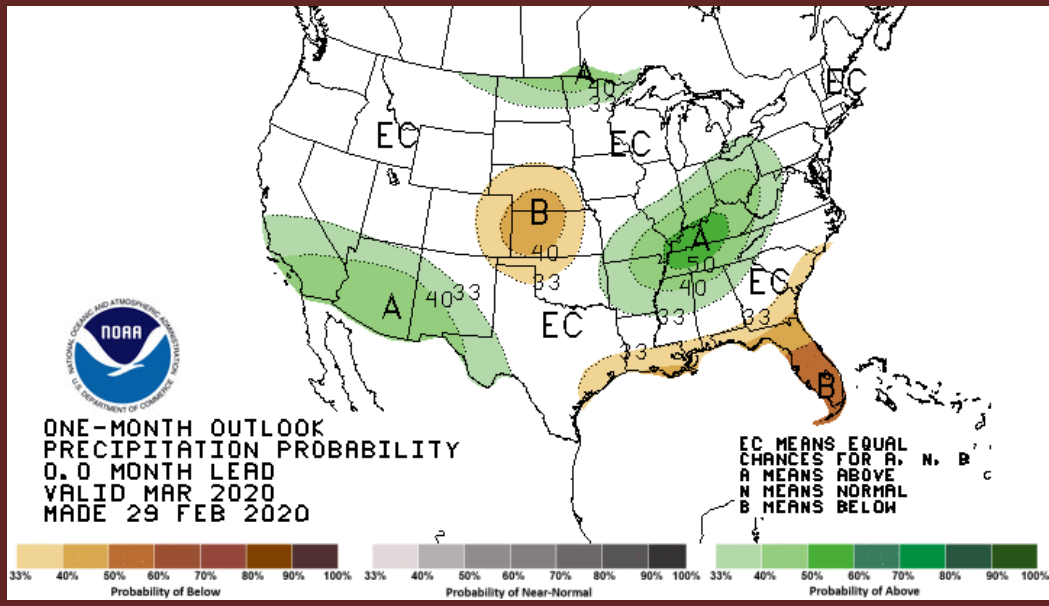
http://www.cpc.ncep.noaa.gov/

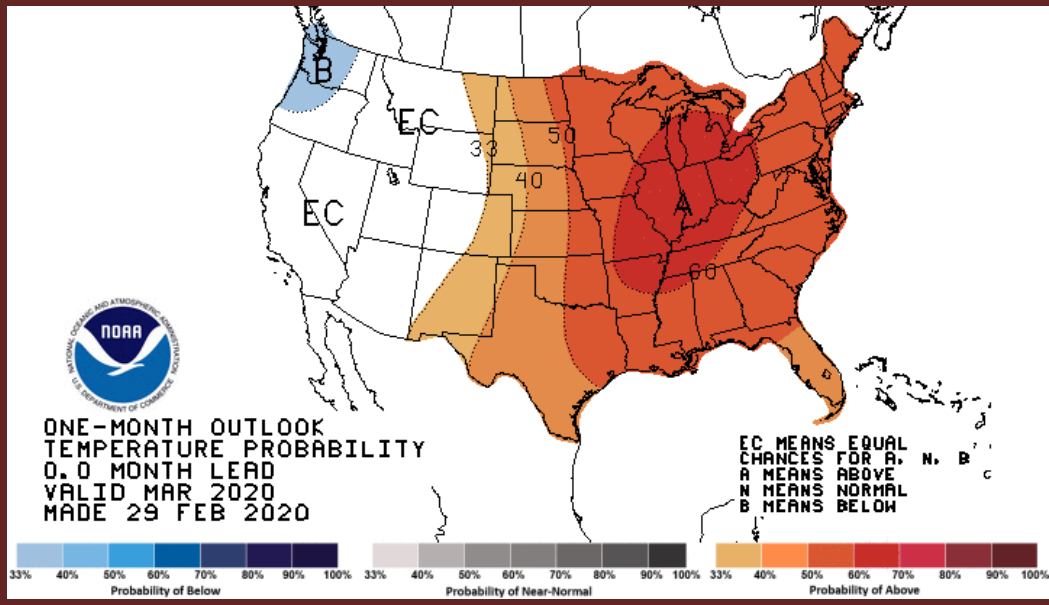
# 1-Month Outlook

- Warmth likely to continue through March (positives and negatives).
- Likely quicker meltoff of snow.
- Will warm and help dry soils

- Pcp more likely wetter Ohio Valley and spot of dryness central Plains.
- Confidence in pcp outlooks lower.

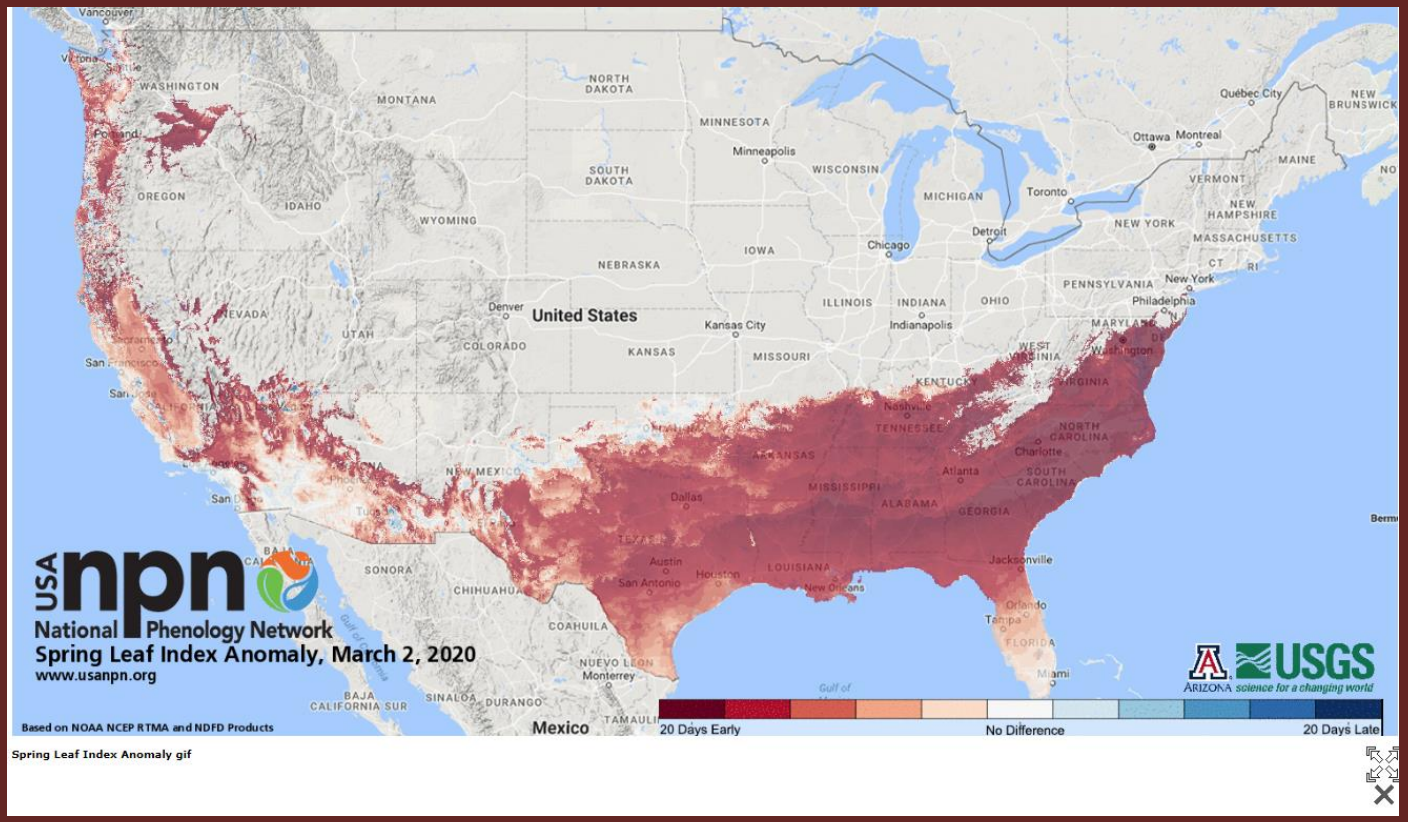
- Less risk on planting from these outlooks (still enough concerns looking ahead).




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

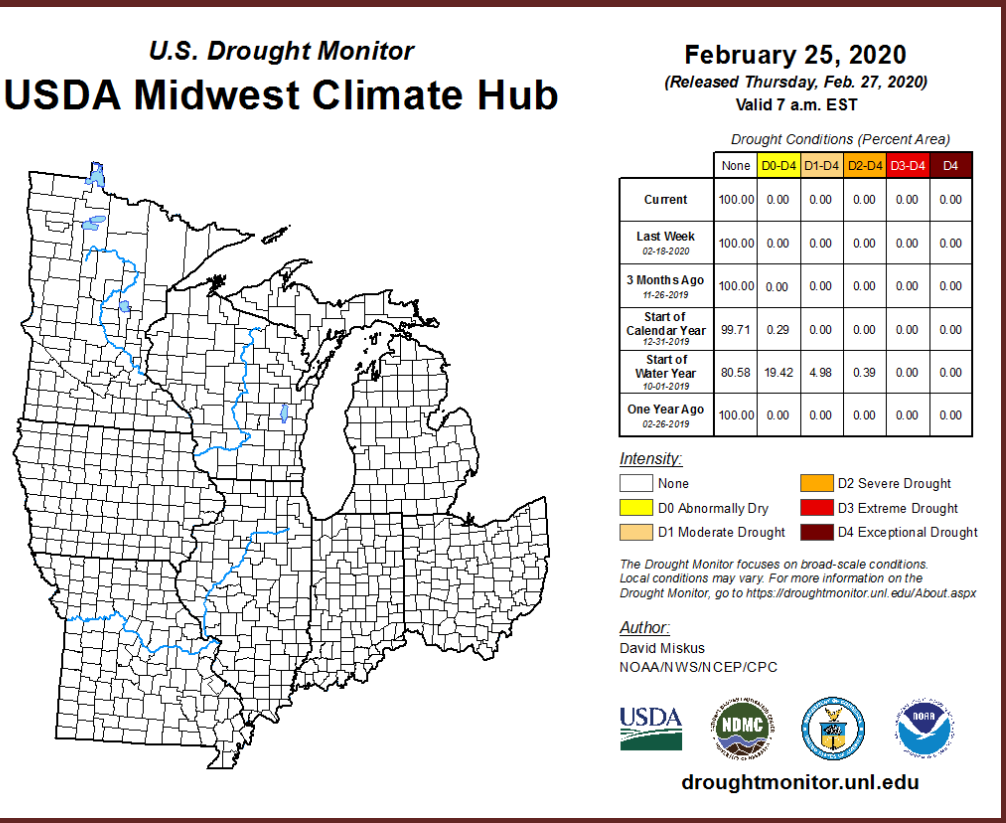
# USA National Phenology Network



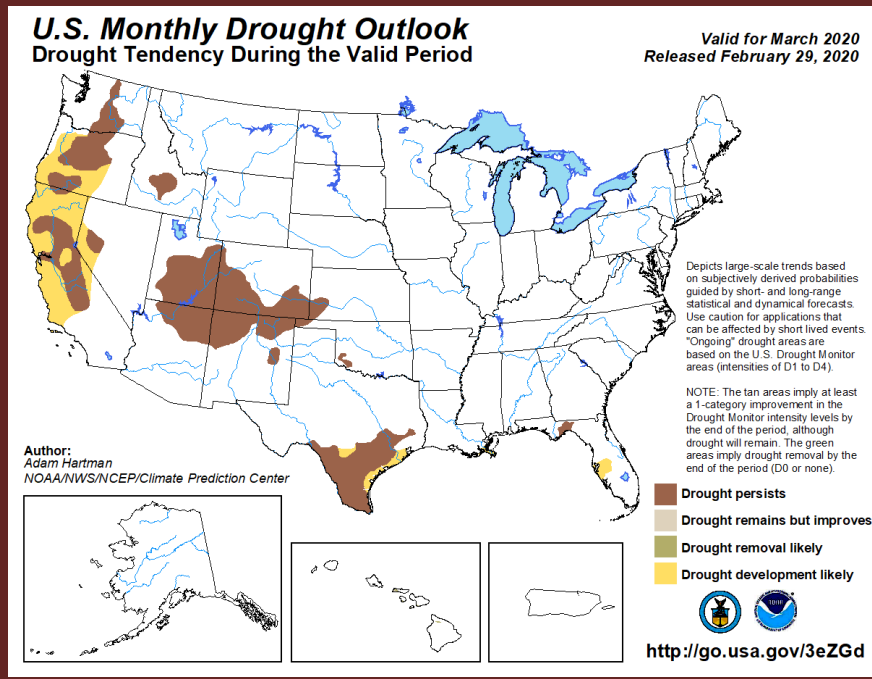

For the Spring Leaf Index video, select the link below.

https://www.usanpn.org/files/npn/maps/six-leaf-index-daily-anomaly-2020.gif

# Drought in the Midwest




The past 30-days have seen mostly below-normal precipitation (except surpluses across far southern and eastern sections), with below-normal temperatures the past 14-days. With excess precipitation encompassing much of the Midwest the past 60- to 90-days, no D0 development was needed. Not surprisingly, USGS stream flows were near to much above-normal (more so at longer time periods) where the rivers were not frozen. In the upper Midwest, a decent snow cover blanketed the area. The drier weather was welcome in the Midwest, but they could also use some milder air – as long as it thaws the ground while gradually melts the snow.



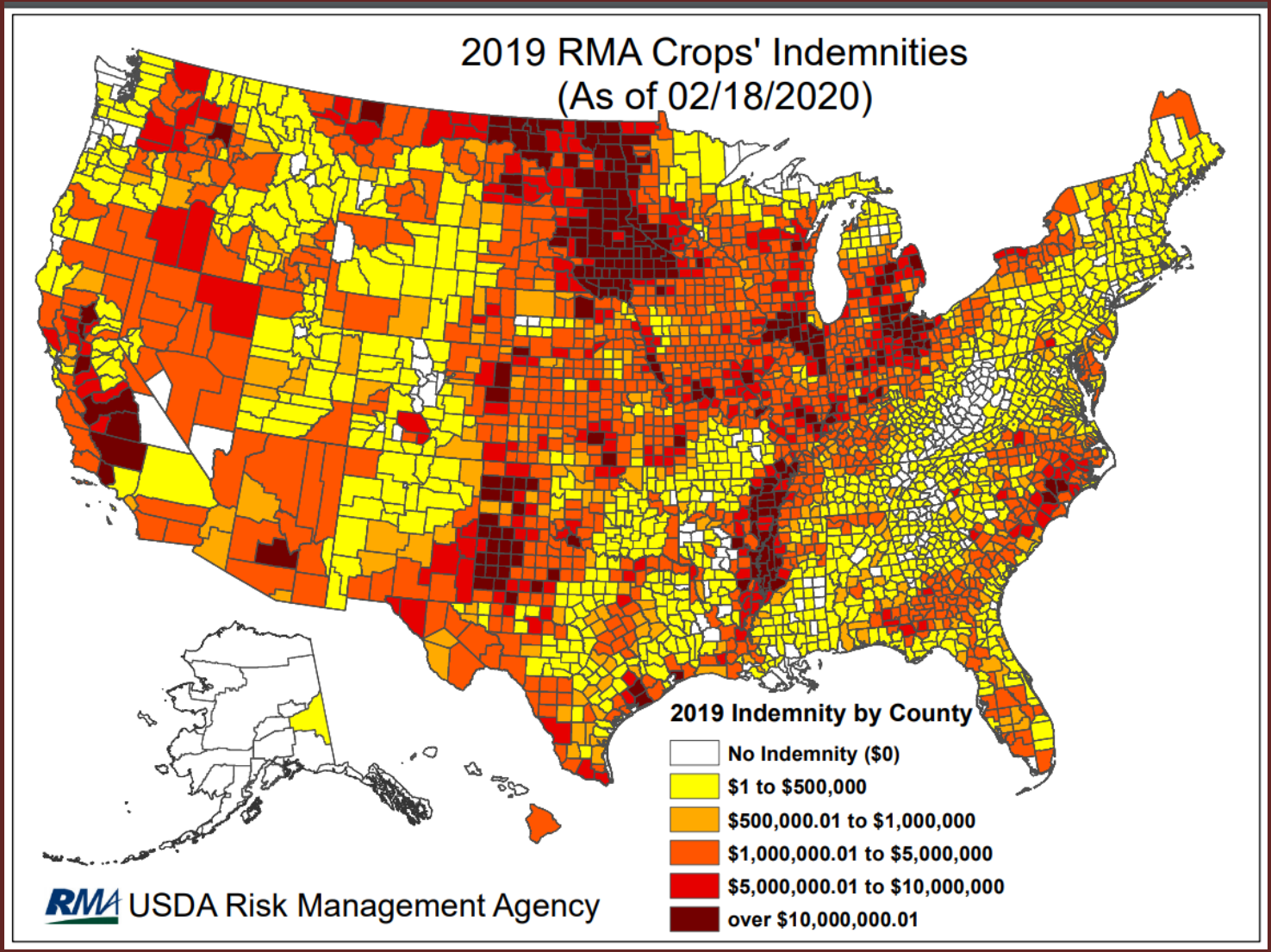

http://droughtmonitor.unl.edu/

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

# Summary

- March outlook gives a little optimistic look ahead for planting season
- Pcp still a questionable outlook.
- Better chance of planting moving closer to average. Delays still likely.
- Concerns about perennials with strong warmth coming.

# 2019 Crop Indemnities




https://www.rma.usda.gov/en/Information-Tools/Crop-Indemnity-Maps

# **Next MAC-T** Monthly Call

Next Call

**April 1st, 2020**