

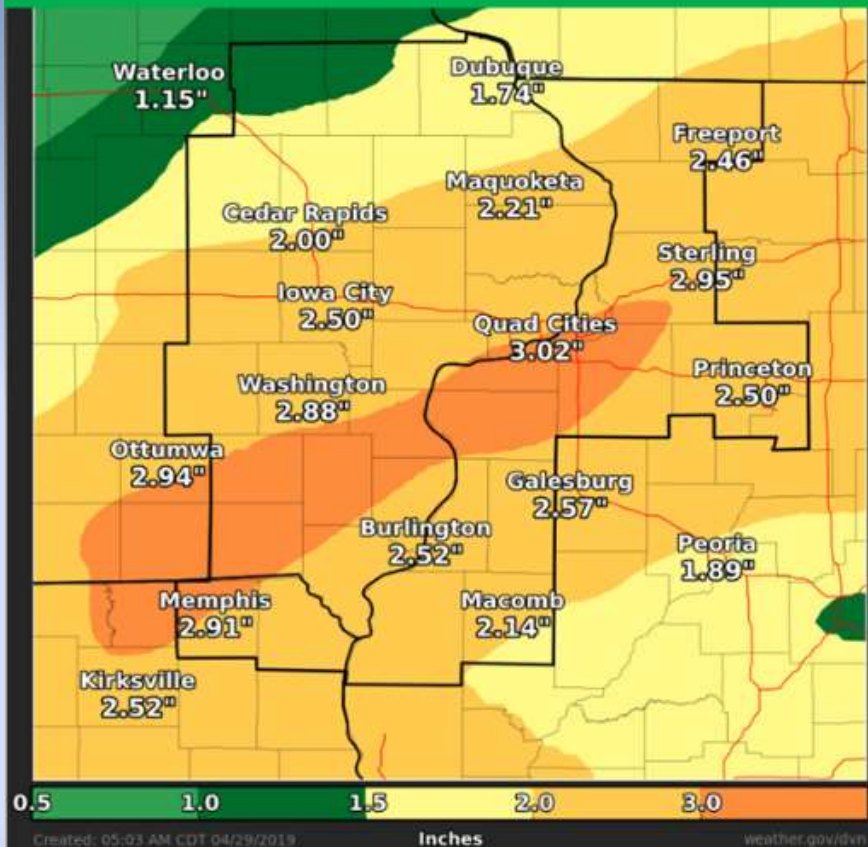


# NWS Quad Cities Flood Update

## April 29, 2019



### More Heavy Rain and Flooding on the Way



#### What

Rounds of showers & storms to produce more heavy rain. Widespread 2-4 inches and locally higher amounts possible.

#### When

This morning through Wednesday

#### Confidence

High



#### Impacts

- Ponding water
- Possible **flash flooding** and urban flooding.
- Higher **river & stream flooding.**





# Main Points

- Dubuque through Bellevue crested over the weekend. Bellevue crest being reached today.
- Rainfall Sunday night into Monday caused the Mississippi River to respond quickly.
- Runoff from the past 24 hours will cause levels to rise to higher levels with a delayed crest.
- More rain is expected, possibly heavy, Tuesday into Wednesday.  
\*\*\*This rain is NOT in the forecast that was updated this morning. Expect locations near and downstream of the crest to be impacted by the rainfall in the next 48 hours.\*\*\*
- Crests WILL be higher than early April and may be drawn out.
- Another threat for heavy rains early next week.
- The entire region remains very susceptible to additional river rises with heavy rains.
- The longer the rivers stay at high levels, the more chances there will be to have heavy rains and then subsequent river rises.





# Current Warnings

## New Tributary Flooding Expected

Mississippi River – ongoing flooding

Tributary flooding – recent rains and forecast rainfall in the coming week will cause rises and flooding on some rivers.

### Expected Tributary Flooding:

Iowa

- Lower Wapsipinicon River
- Lower Iowa River

Iowa/Missouri

- Lower Des Moines River

Illinois

- Rock River
- Green River



Last Map Update: Mon, Apr. 29, 2019 at 12:26:24 pm CDT

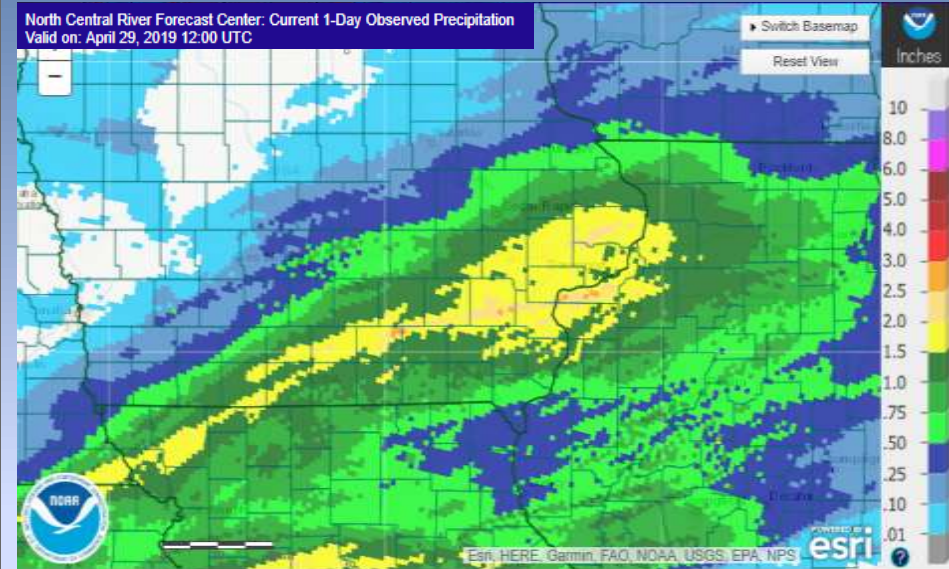
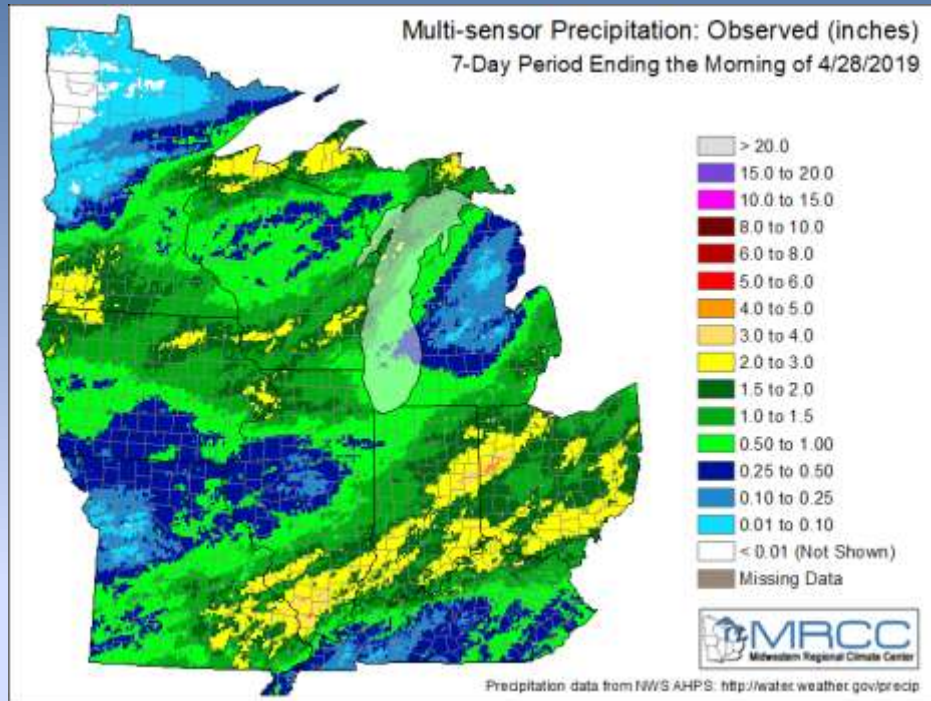


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# Observed Precipitation: 4/22 – 4/29



**Precipitation was plentiful across the area this week.**

**First: widespread 1" to 1.5" with areas over 2" up over northern Iowa into southern Wisconsin.**

**Second: a band of 1.50" to 2" fell from south central Iowa into northwest Illinois.**

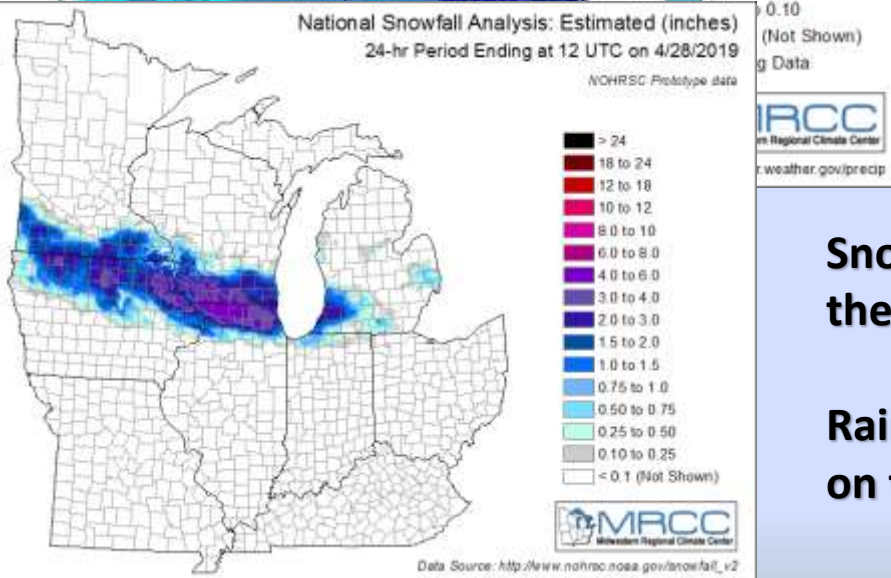
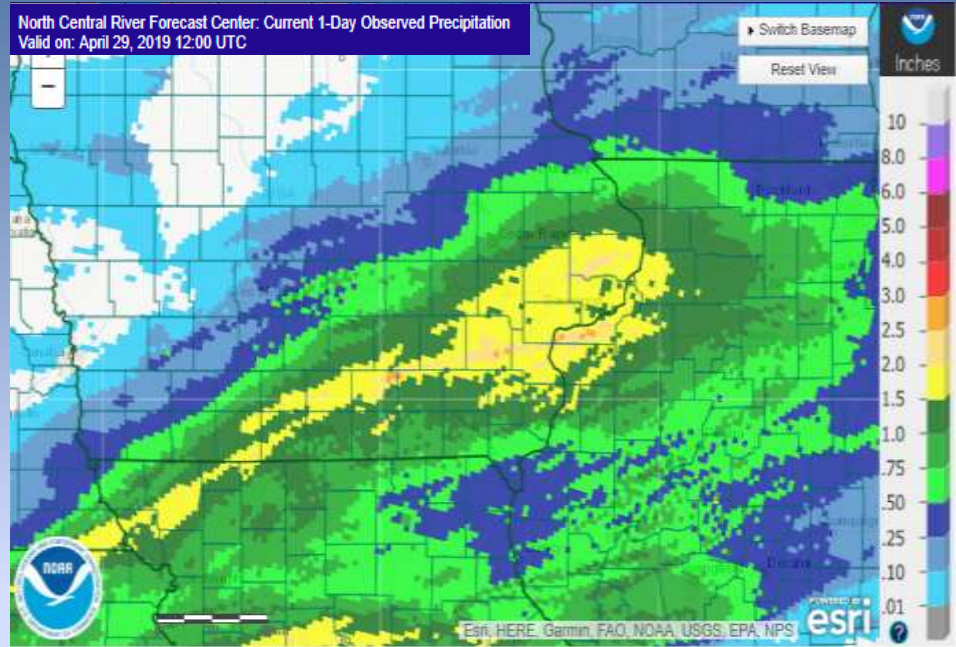
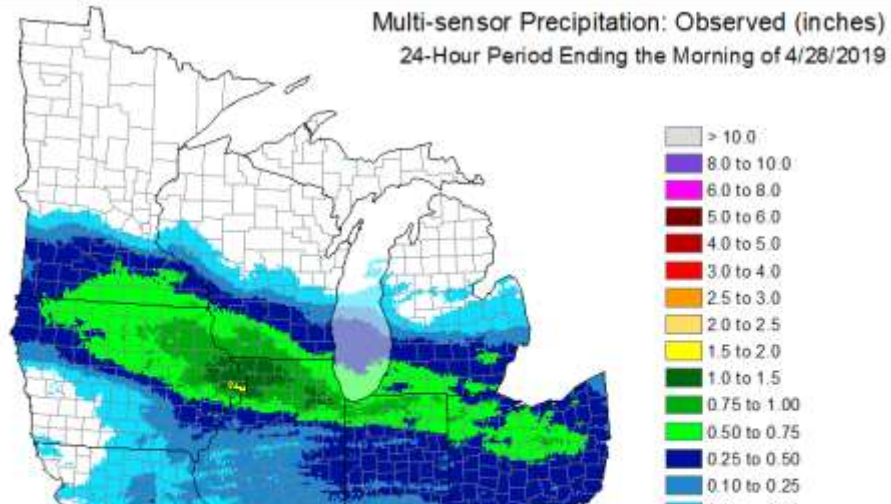


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# Observed Precipitation: 4/22 – 4/29



**Snow/Rain on the 27<sup>th</sup>-28<sup>th</sup>. Snow was only on the ground for a short amount of time.**

**Rainfall through this morning caused responses on the Mississippi as well as tributary rivers.**



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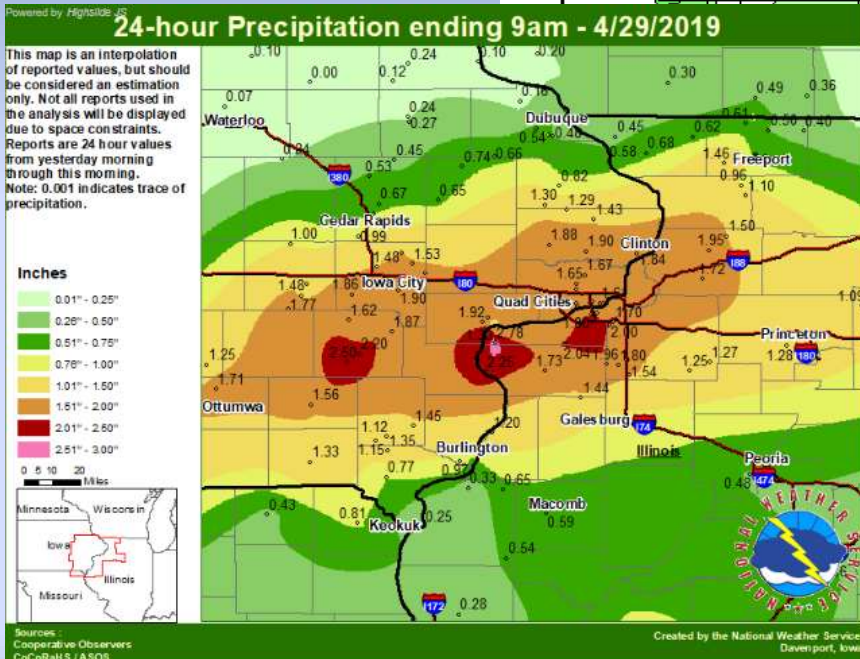
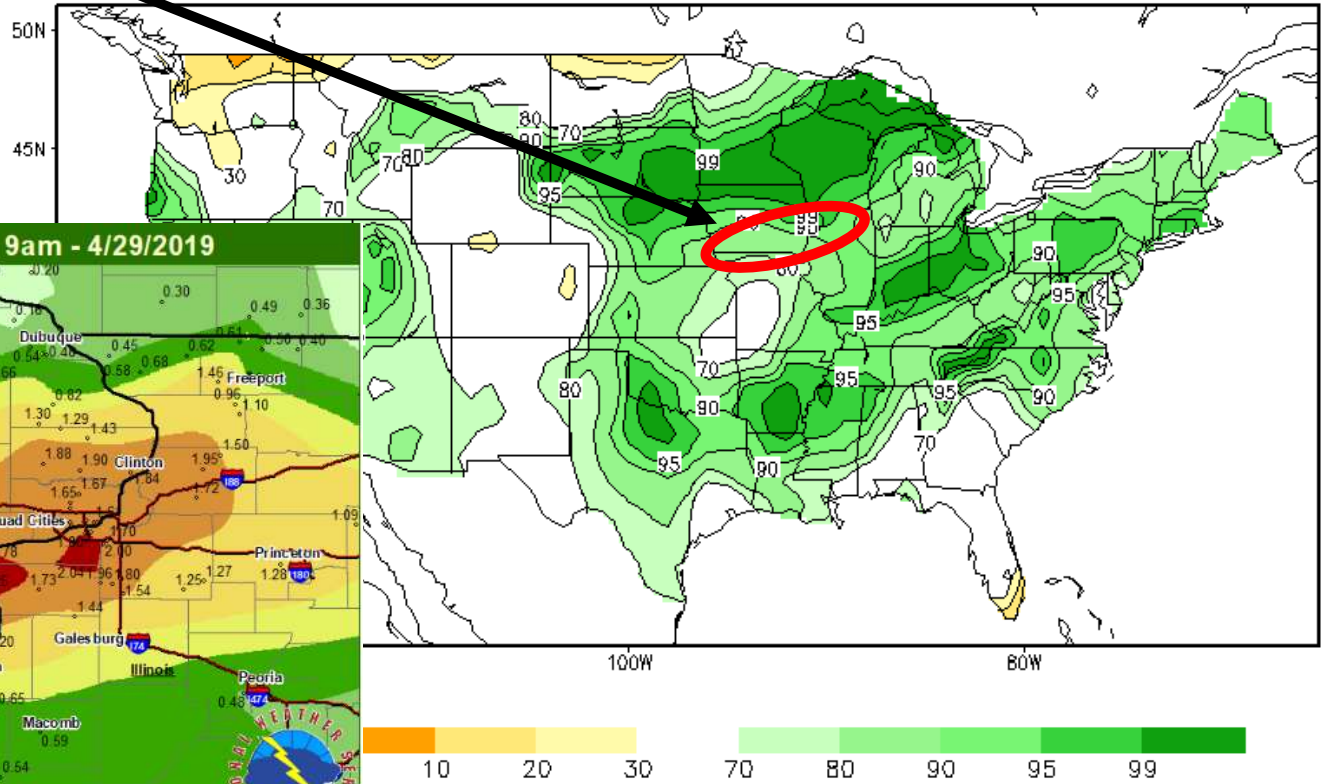
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# Current Soil Moisture

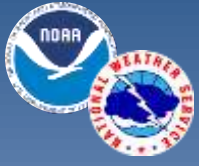
Soils will likely trend wetter in this area due to rains in the last 24 hours.

Calculated Soil Moisture Ranking Percentile  
APR 28, 2019



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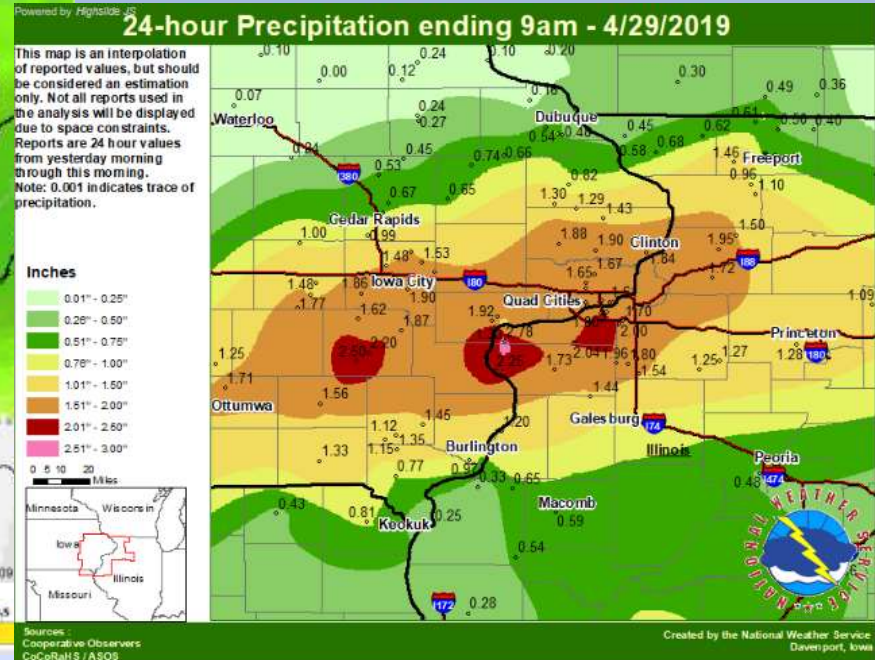
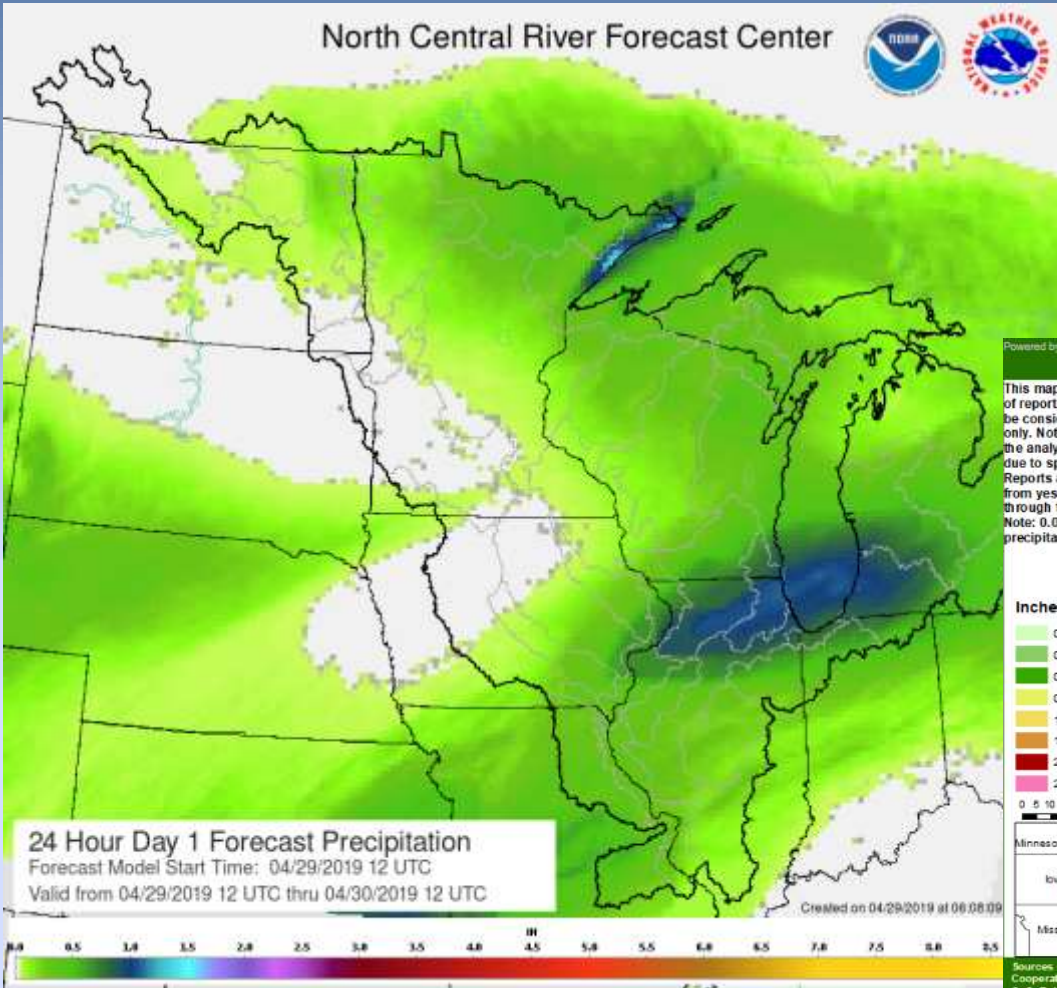


# Day 1 Forecast Precipitation

North Central River Forecast Center



Rainfall amounts included in today's river forecasts.



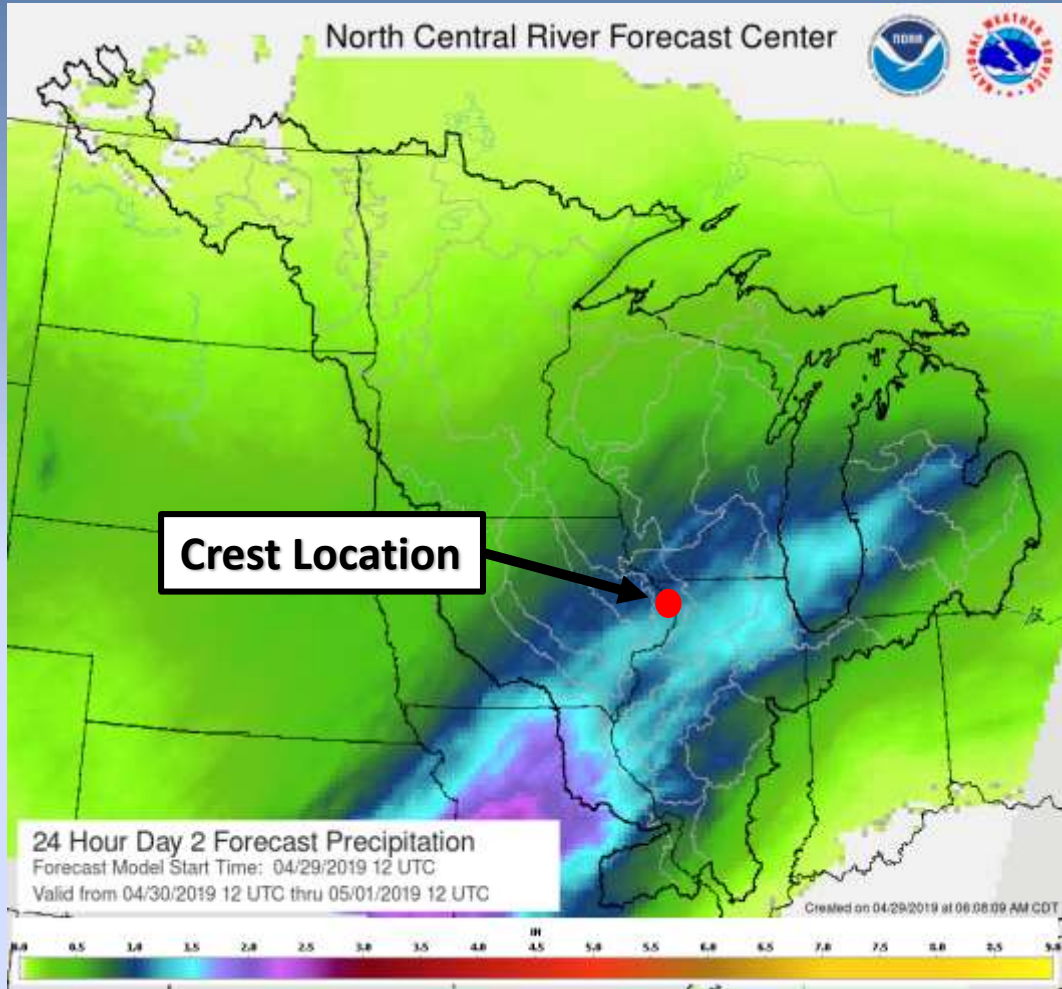
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# Day 2 Forecast Precipitation

(not included in today's river forecasts)



**Widespread amounts of 1” to 2” expected across the area.**

**This WILL have an impact to the river levels. Expect forecast levels on the Mississippi River to go up.**

**Additional tributary flooding or rises also likely.**



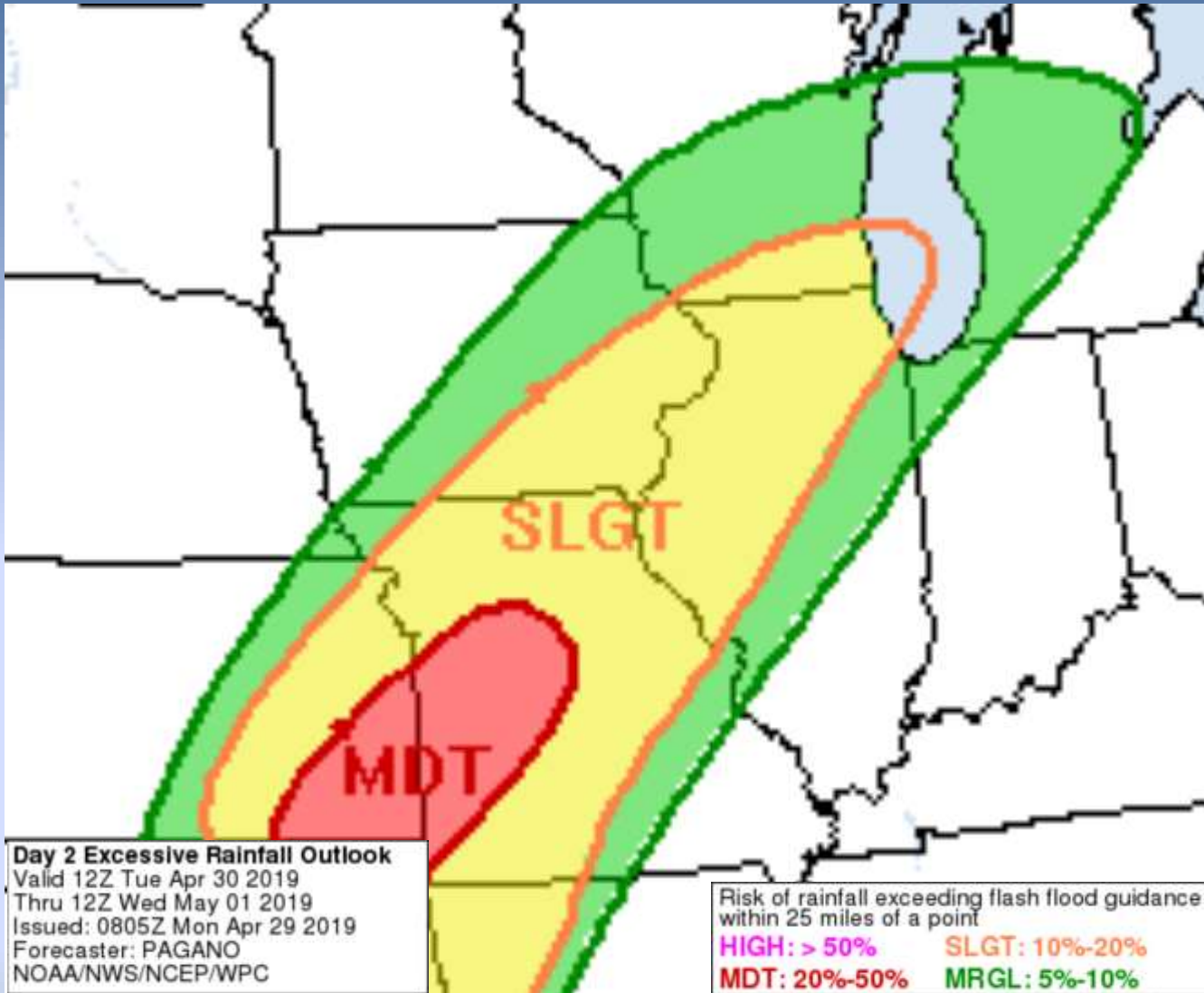
**National Weather Service**

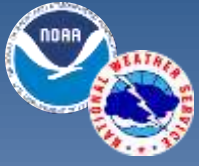
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# Day 2 Excessive Rainfall Outlook

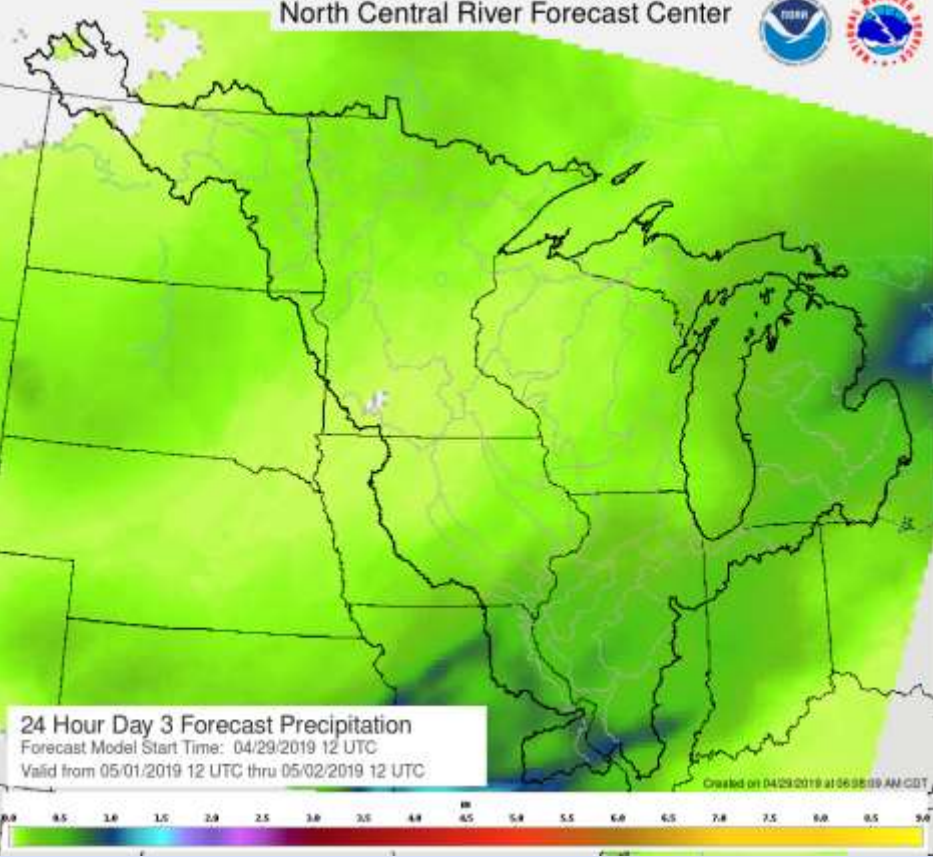




# Forecast Precipitation

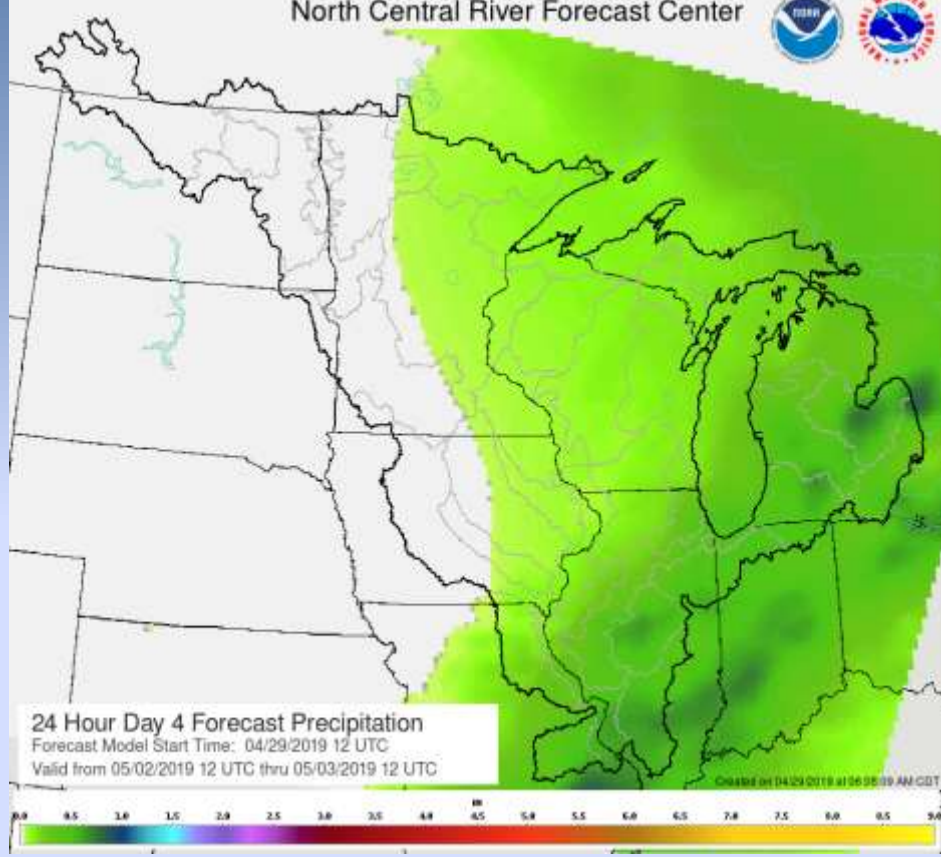
(not included in today's river forecasts)

North Central River Forecast Center



**Wednesday and Wednesday Night**

North Central River Forecast Center



**Thursday and Thursday Night**

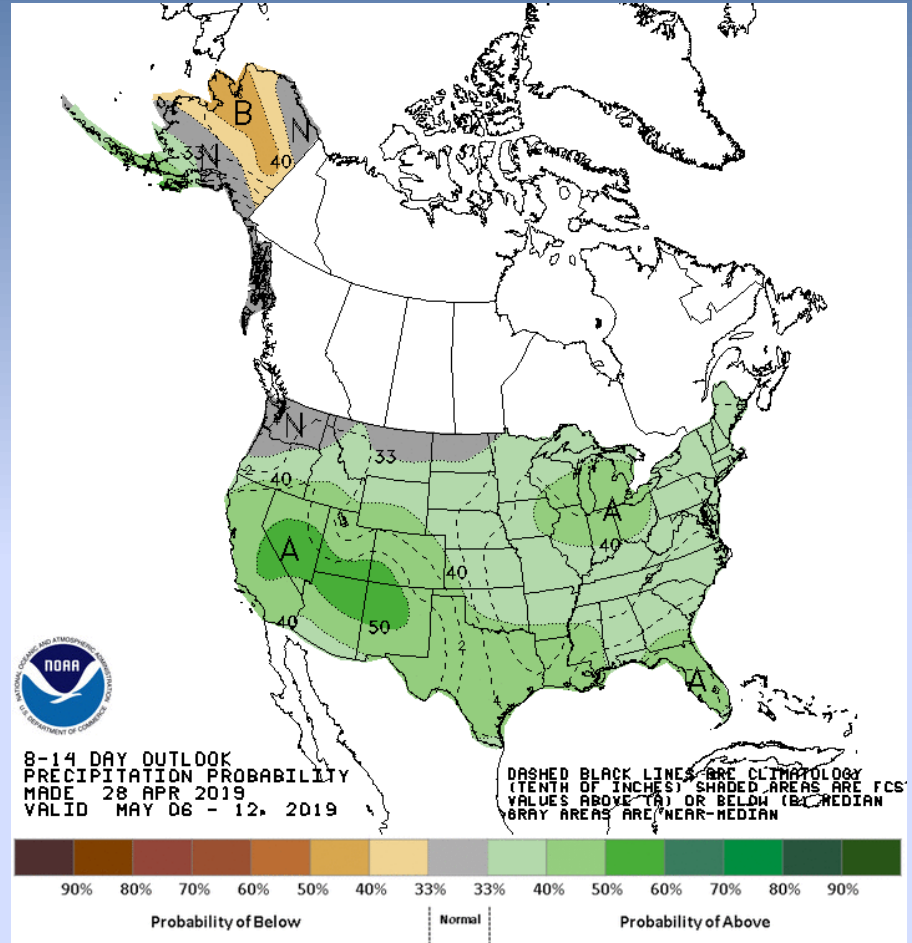
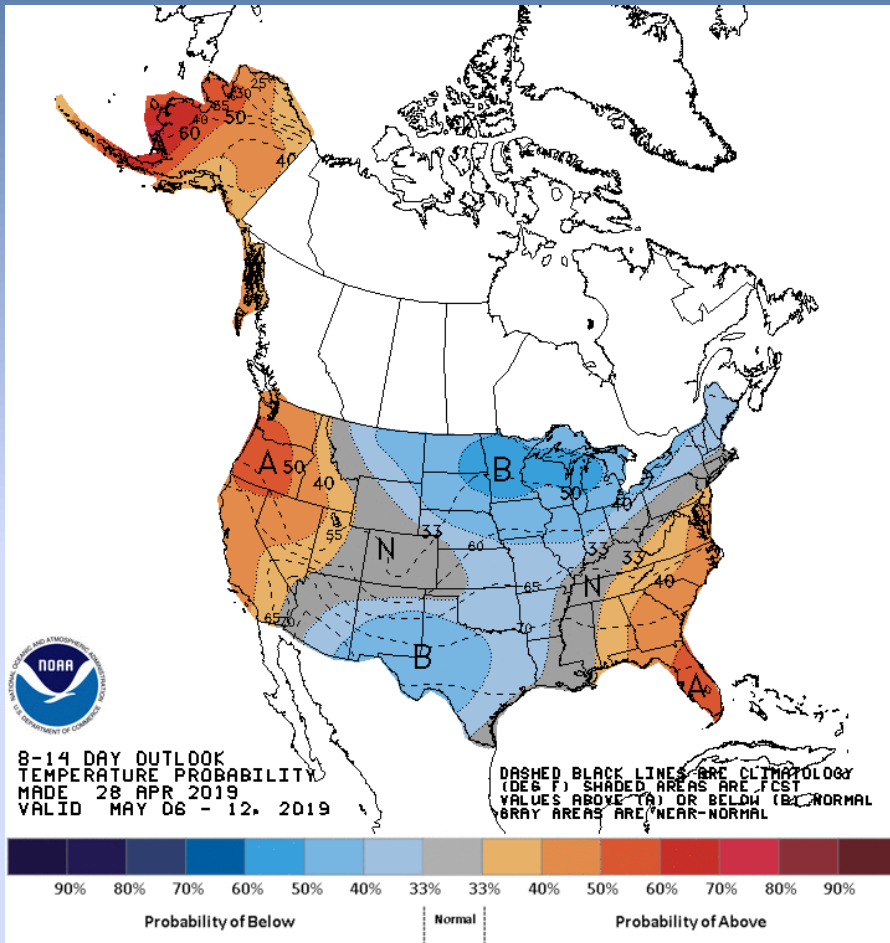


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# Week 2 Outlook



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# Bottom Line for This Week

- **Forecast crests will be going up.**
- **Heavy rain possible Tuesday into Wednesday. Wet pattern continues into next week.**
- **Crest will be higher than in early April.**
- **High river levels will continue through May. Each additional rain will prolong the high levels.**





# Information Sources

- Advanced Hydrologic Prediction Service (AHPS) (observations and forecasts, etc) — [water.weather.gov](http://water.weather.gov)
- Local Quad Cities WFO AHPS — [water.weather.gov/ahps2/index.php?wfo=DVN](http://water.weather.gov/ahps2/index.php?wfo=DVN)
- North Central River Forecast Center — [weather.gov/ncrfc](http://weather.gov/ncrfc)
- National Operational Hydrologic Remote Sensing Center (snow information) — [nohrsc.noaa.gov](http://nohrsc.noaa.gov)
- NWS Weather Prediction Center — [wpc.ncep.noaa.gov](http://wpc.ncep.noaa.gov)
- NWS Climate Prediction Center — [cpc.ncep.noaa.gov](http://cpc.ncep.noaa.gov)

**Quad Cities WFO Forecast Discussions (technical weather and hydrology discussion)**  
**[forecast.weather.gov/product.php?site=DVN&issuedby=DVN&product=AFD](http://forecast.weather.gov/product.php?site=DVN&issuedby=DVN&product=AFD)**

Find out more information at: [www.weather.gov/dvn/River\\_Levels](http://www.weather.gov/dvn/River_Levels)

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