

Mississippi River Flooding Continues



MISSISSIPPI RIVER CREST INFORMATION

NATIONAL WEATHER SERVICE
QUAD CITIES

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COMPARED TO PREVIOUS CREST

ABOVE PREVIOUS CREST

NEAR TO ABOVE PREVIOUS CREST

AROUND PREVIOUS CREST

NEAR TO BELOW PREVIOUS CREST

BELOW PREVIOUS CREST

Location	Expected Crest Level	Current Trend	Expected Crest Timing
Dubuque LD 11	●	↗	4/27 - 4/28
Dubuque Railroad Bridge	●	↗	4/27 - 4/28
Bellevue	●	↗	4/28 - 4/30
Fulton	●	↗	4/28 - 4/30
Camanche	●	↗	4/29 - 5/1
Le Claire	●	→	4/29 - 5/1
Rock Island	●	→	4/29 - 5/1
Illinois City	●	→	4/30 - 5/2
Muscatine	●	→	4/30 - 5/2
New Boston	●	↘	4/30 - 5/3
Keithsburg	●	↘	4/30 - 5/3
Gladstone	●	↘	5/1 - 5/3
Burlington	●	↘	5/1 - 5/3
Keokuk	●/●	↘	5/1 - 5/4
Gregory Landing	●	↘	5/1 - 5/4

Major Flooding

Moderate Flooding



Message of the Day:

- Crest forecasts from the snowmelt and rainfall runoff are in the 7 day forecasts down to LD16 but are uncertain due to future potential heavy rainfall.
- Minimal rainfall is expected through Thursday.
- Heavy rainfall is possible Friday and Saturday across southern Wisconsin and along the Iowa/Minnesota border just behind the crest. Another round of heavy rain is possible Sunday and Monday across Iowa, Missouri and Illinois.

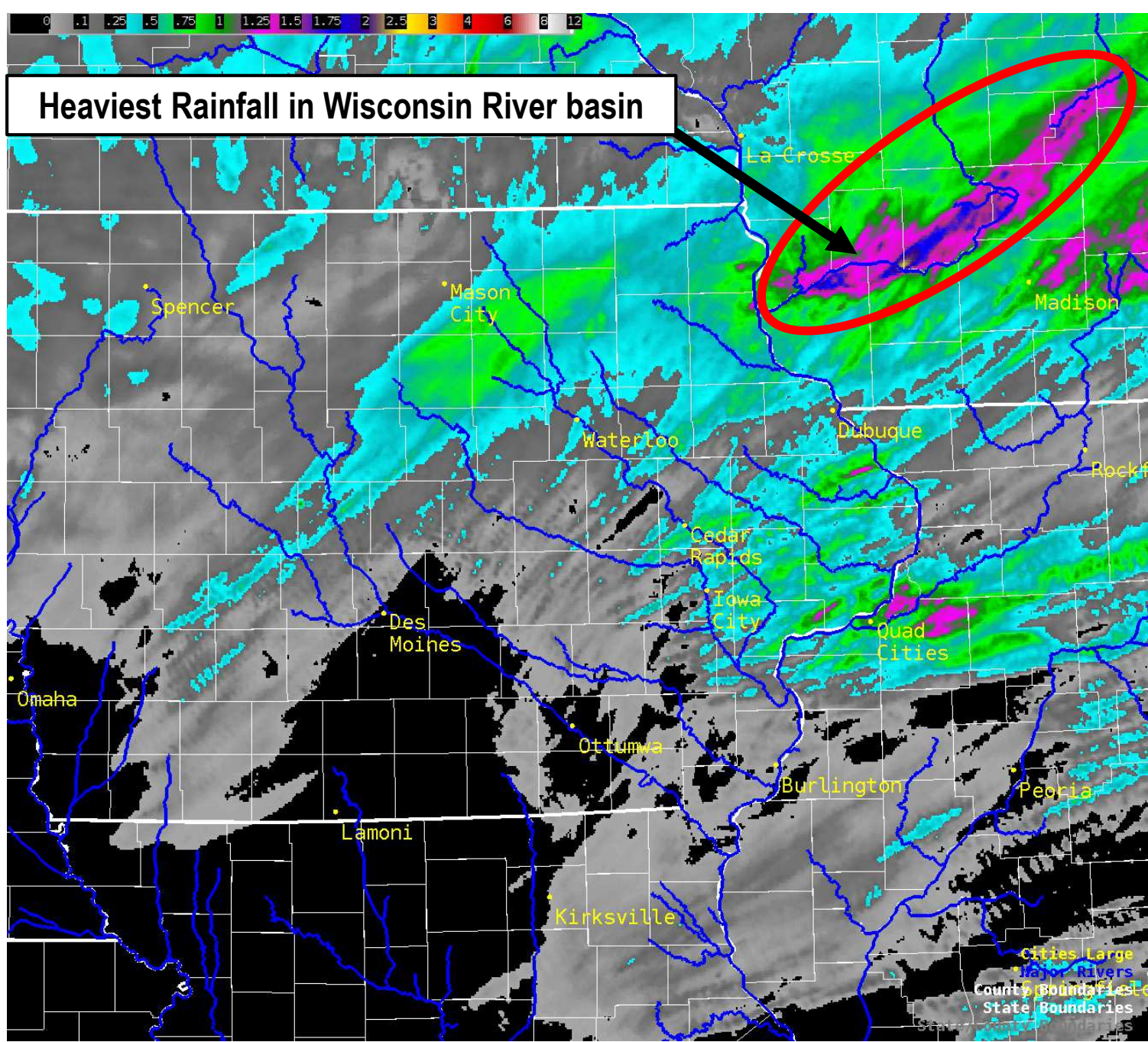


Important Forecast Changes:

Rises are now underway upstream of LD13. Downstream of LD13 the Mississippi is either leveling off or still dropping. Crests will be higher than the first snowmelt crest from LD11 down to LD13. LD14 to LD16 the crests will be similar to the first crest. Crests *may* be lower downstream of LD16 than the first crest.



24 Hour Regional Precipitation ending 7 AM 4/23/2019





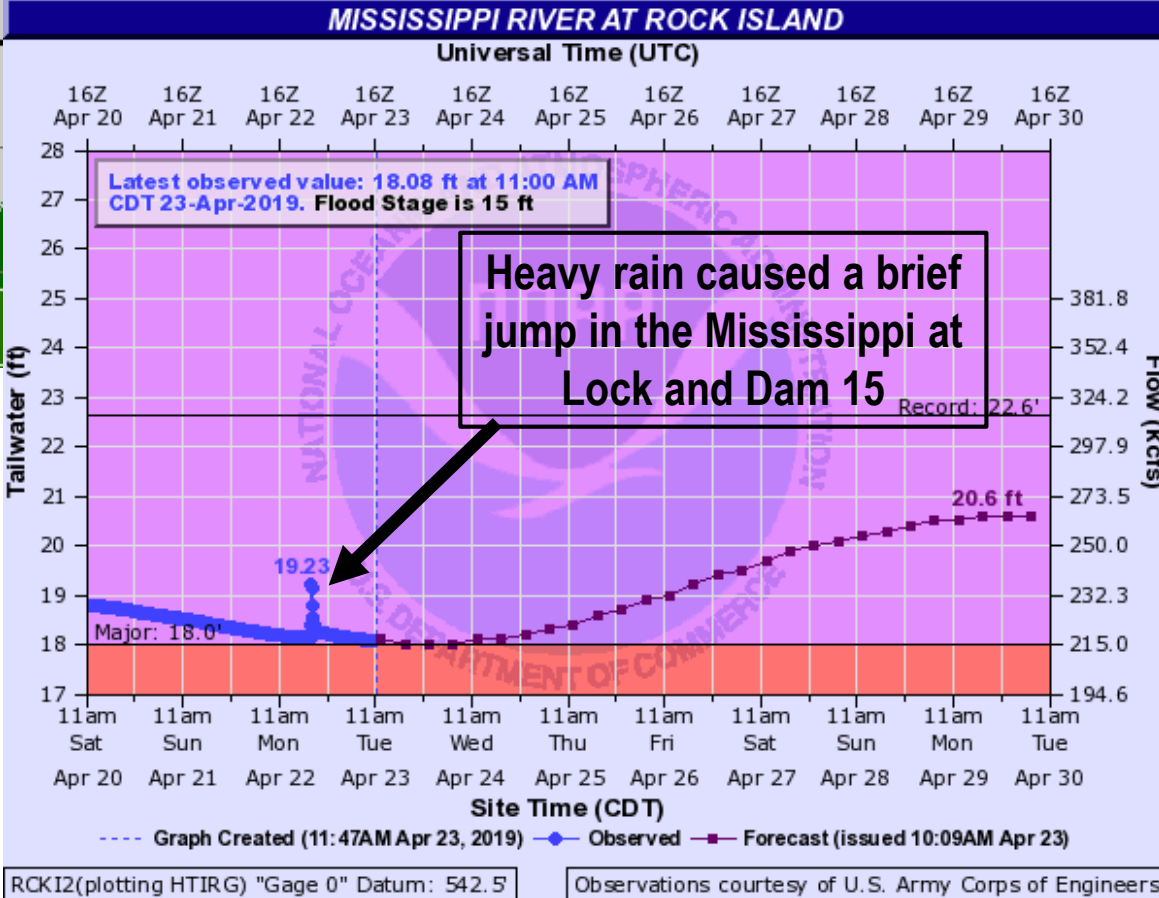
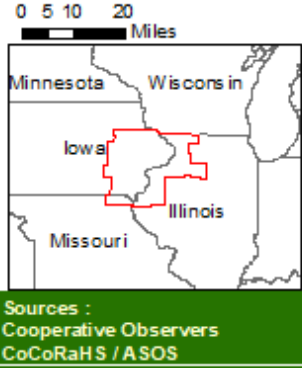
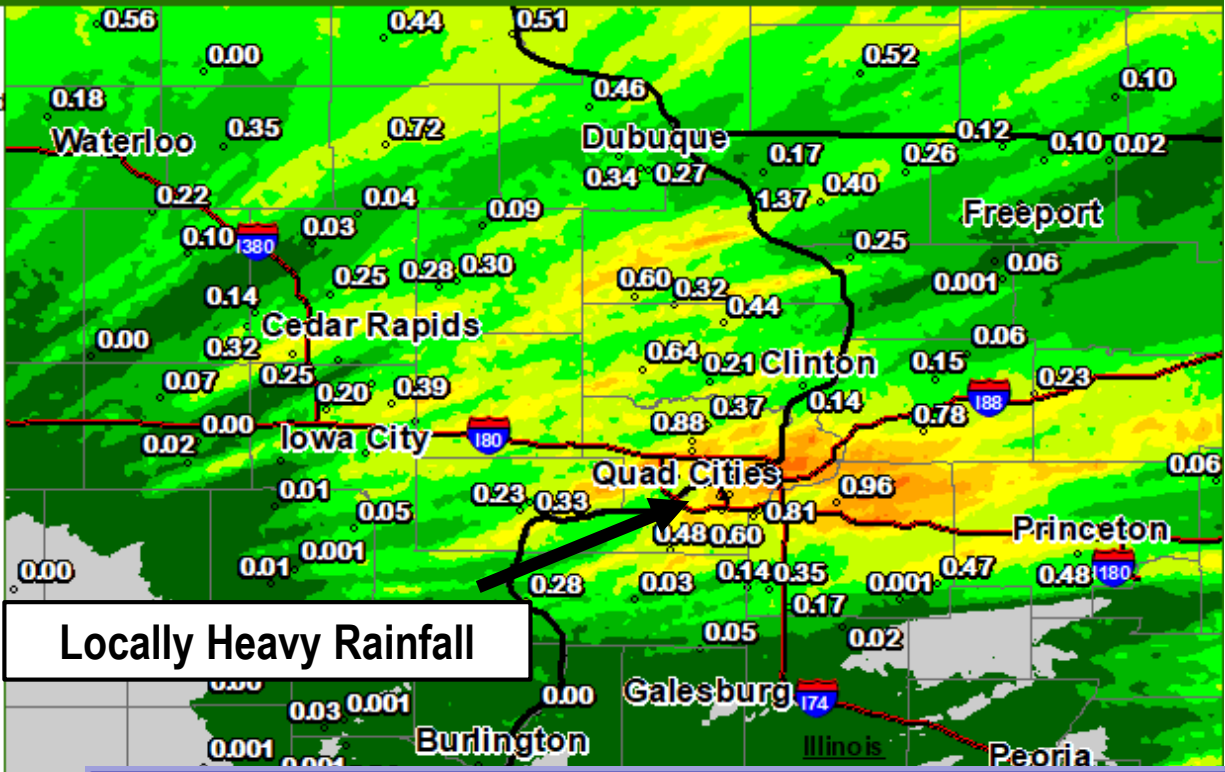
24 Hour Local Precipitation ending 4/23/2019

24-hour Precipitation ending 9am - 4/23/2019

This map is a 24-hr multi-radar multi sensor (MRMS) analysis with reported values displayed on top of analysis. This method is used to attempt to capture convective events more effectively.

This should still be considered an estimation only. Not all reports used in the analysis will be displayed due to space constraints. Reports are 24 hour values from yesterday morning through this morning.

Note: 0.001 indicates trace of precipitation.





Mississippi Flood Crest

Final snowmelt crest combined with runoff from heavy rain is moving down the Mississippi River

- River levels are rising from LD11 down to LD13. Downstream of LD13 river levels continue to fall but will begin rising again by late week.
- Rainfall in the next 2 weeks could cause changes to the crests and crest dates.



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Major
Flooding
Moderate
Flooding

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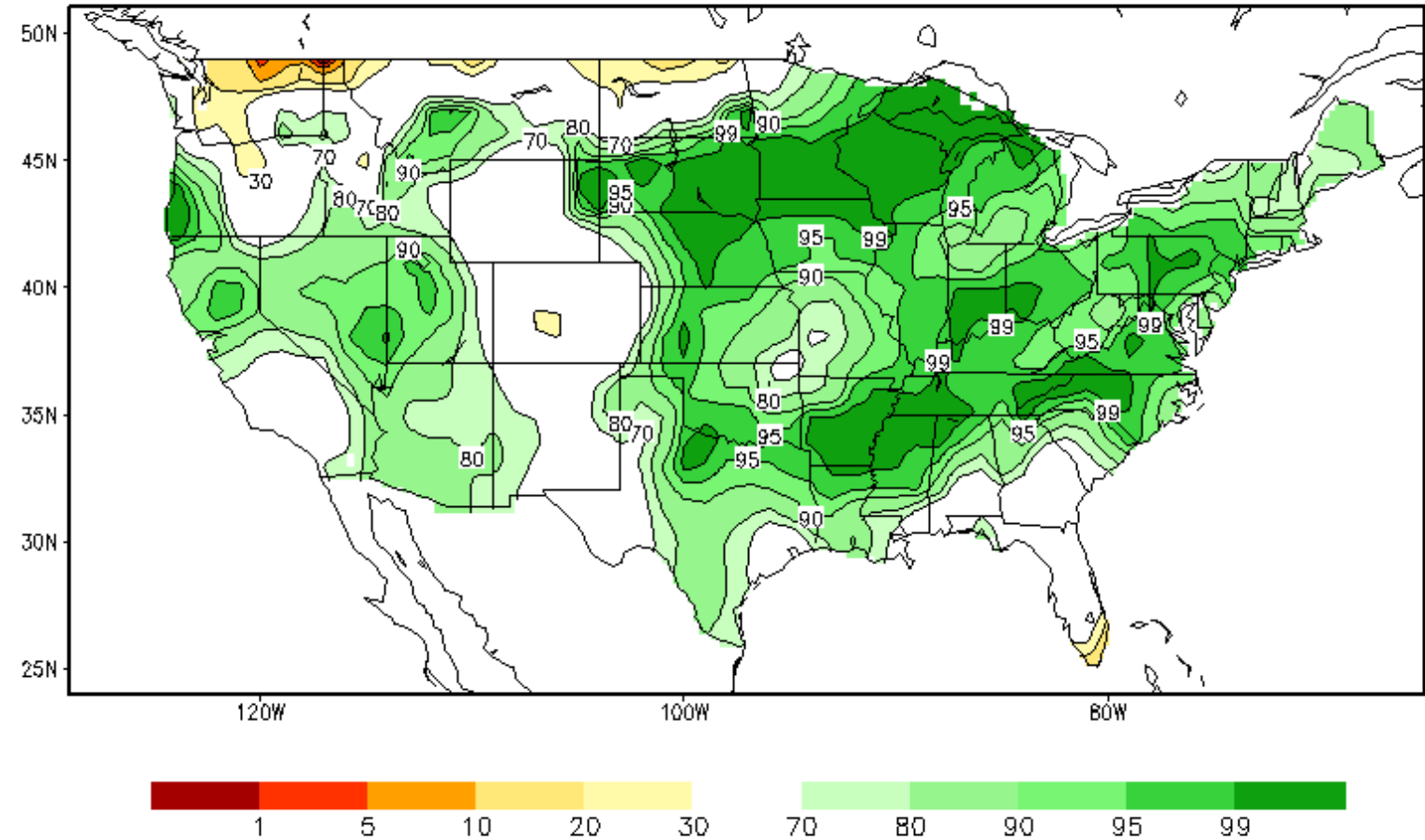
Current Soil Moisture

Soil Moisture: remains saturated across the region despite the ongoing spring green-up.

Some improvement in soil moisture has occurred over the past five days across Iowa and northern Illinois

The entire region remains very susceptible to additional rises from heavy rains.

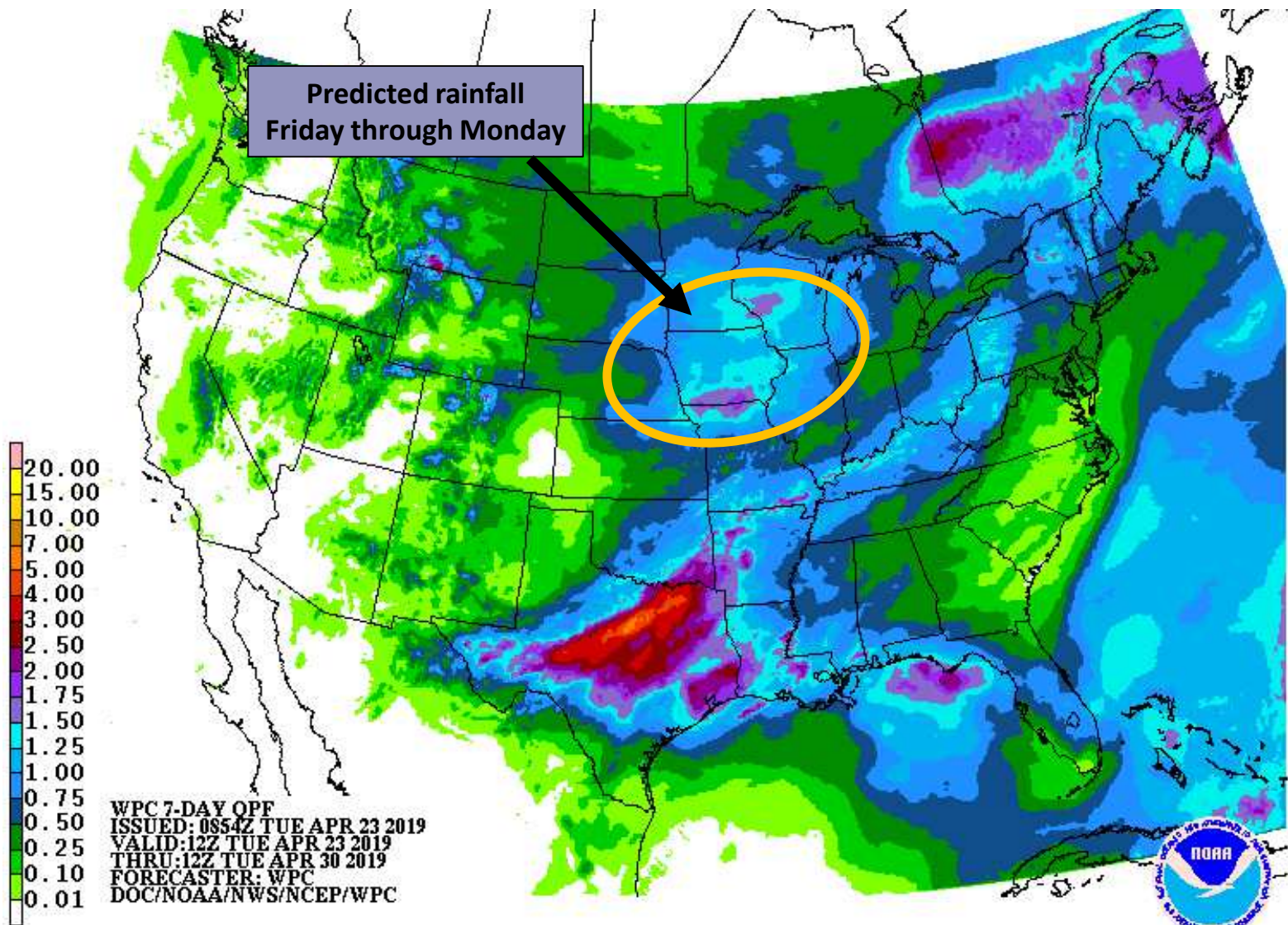
Calculated Soil Moisture Ranking Percentile
APR 22, 2019





Forecast Rainfall through next Monday

Predicted rainfall
Friday through Monday

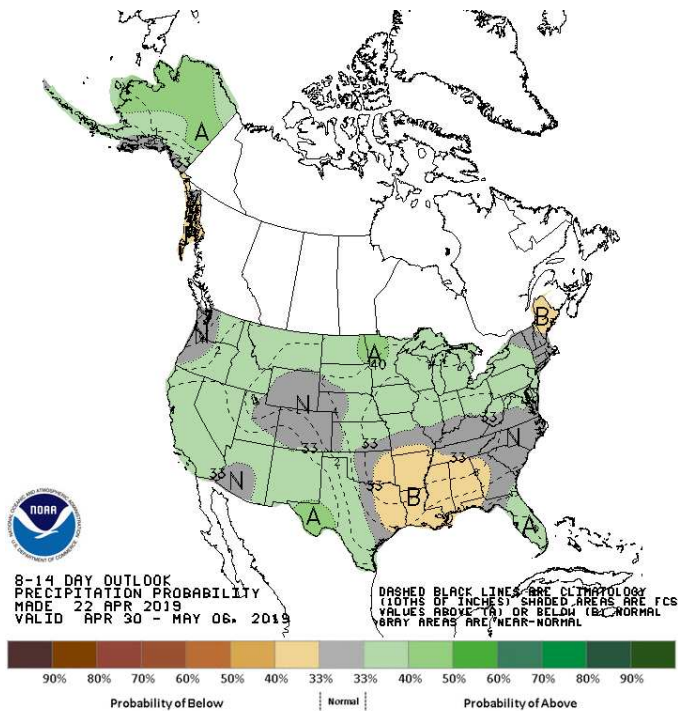


- Little if any rainfall through Thursday
- Active pattern Friday through Monday. Two rounds of heavy rainfall possible.



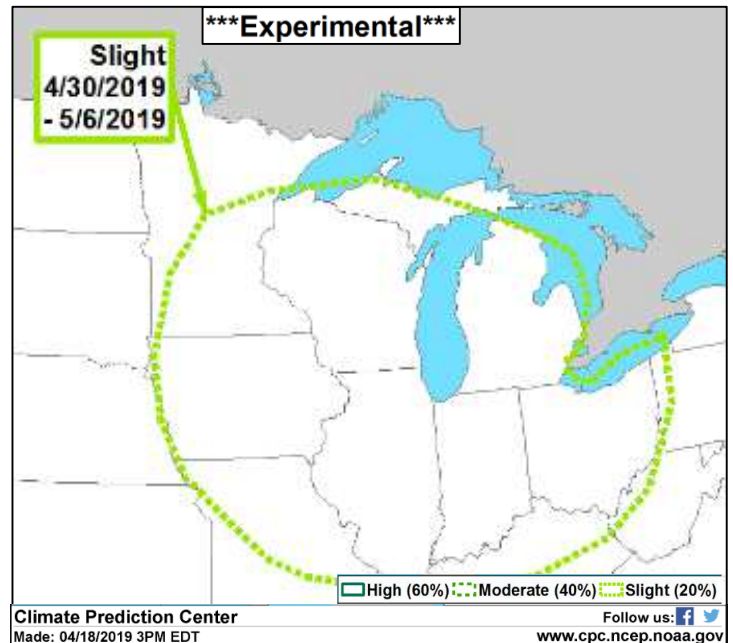
Looking Ahead: April 30th → May 6st

Precipitation

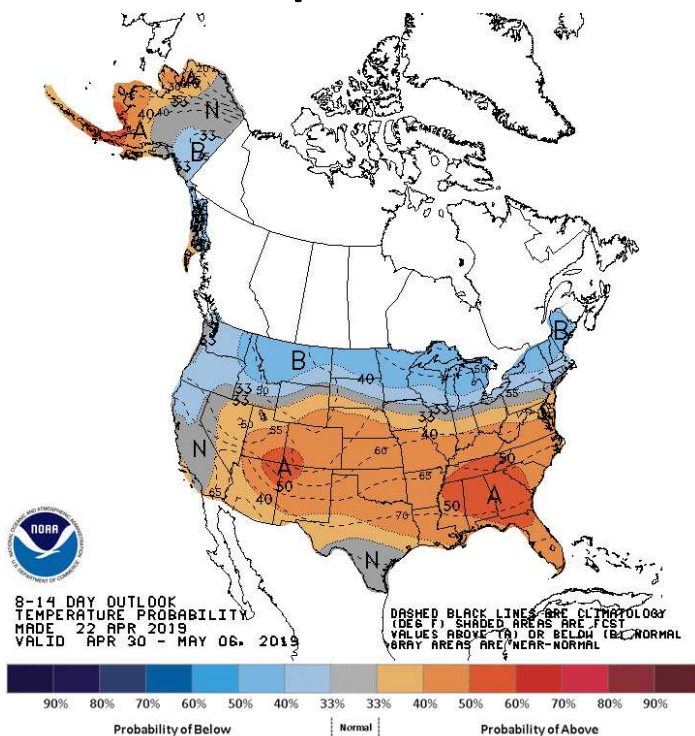


Risk of Heavy Precipitation

Valid 4/30/2019-5/6/2019



Temperatures



- An active pattern continues into early May with a slight risk of heavy rain.
- Location of any heavy rainfall in relation to the crest will be important. At a minimum it would prolong high river levels.



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- Minimal rainfall is expected through Thursday.
- Heavy rainfall is possible Friday and Saturday across southern Wisconsin and along the Iowa/Minnesota border just behind the crest. Another round of heavy rain is possible Sunday and Monday across Iowa, Missouri and Illinois.
- High river levels are expected through Memorial Day Weekend.

NWS Quad Cities WFO Forecast Discussions

(technical weather and hydrology discussion)

forecast.weather.gov/product.php?site=DVN&issuedby=DVN&product=AFD

NWS Quad Cities WFO River Information Page

www.weather.gov/dvn/river_levels

Advanced Hydrologic Prediction Service (AHPS)

<https://water.weather.gov/ahps2/forecasts.php?wfo=DVN>



Find out more information on our rivers page: www.weather.gov/dvn/river_levels

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