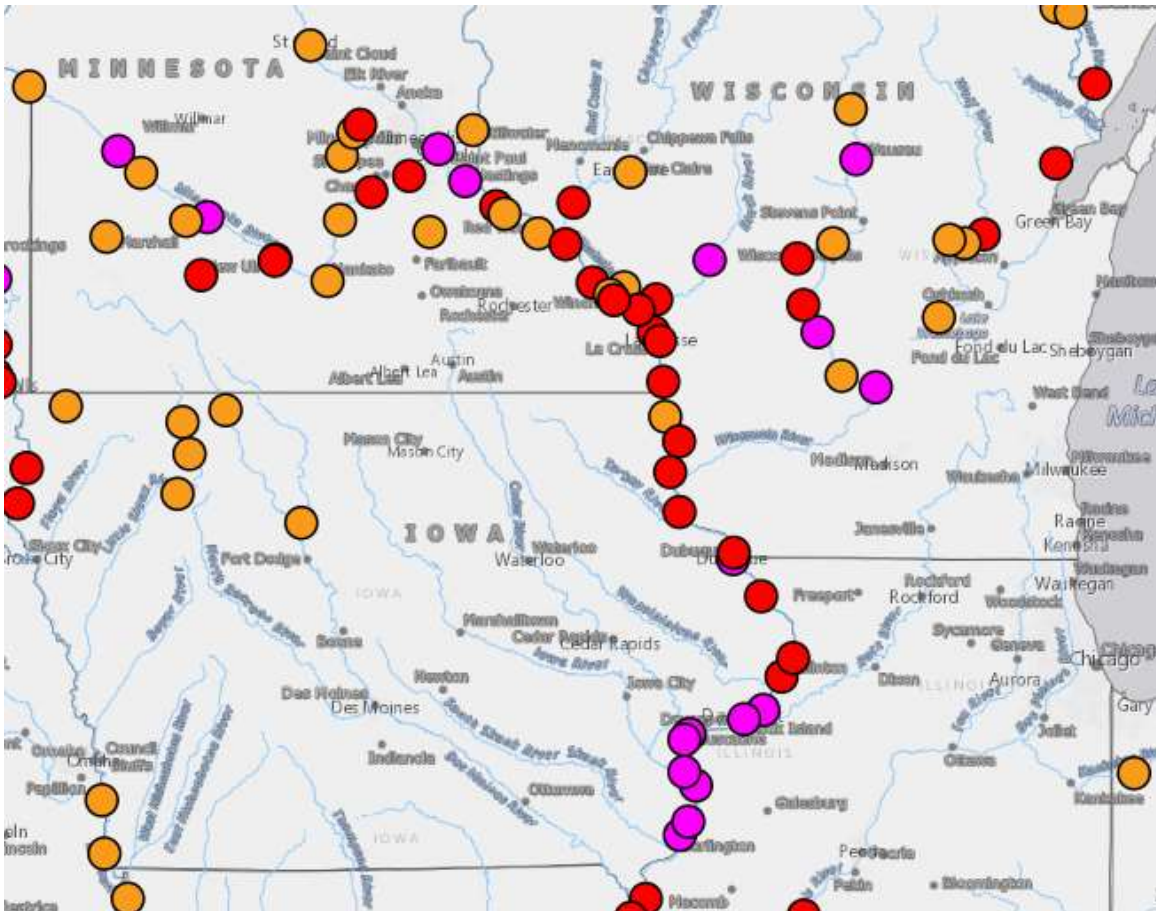




Mississippi River Flooding Continues

New Crests expected near the end of April and early May



Message of the Day:

- Heavy rain fell from southern Minnesota into northern Wisconsin on Wednesday and Wednesday night.
- Runoff from the heavy rain will combine with snowmelt runoff working towards the Mississippi River in Minnesota and Wisconsin.
- Crest levels due to the snowmelt and rainfall runoff are not yet in the 7 day forecasts and are highly uncertain at this time.

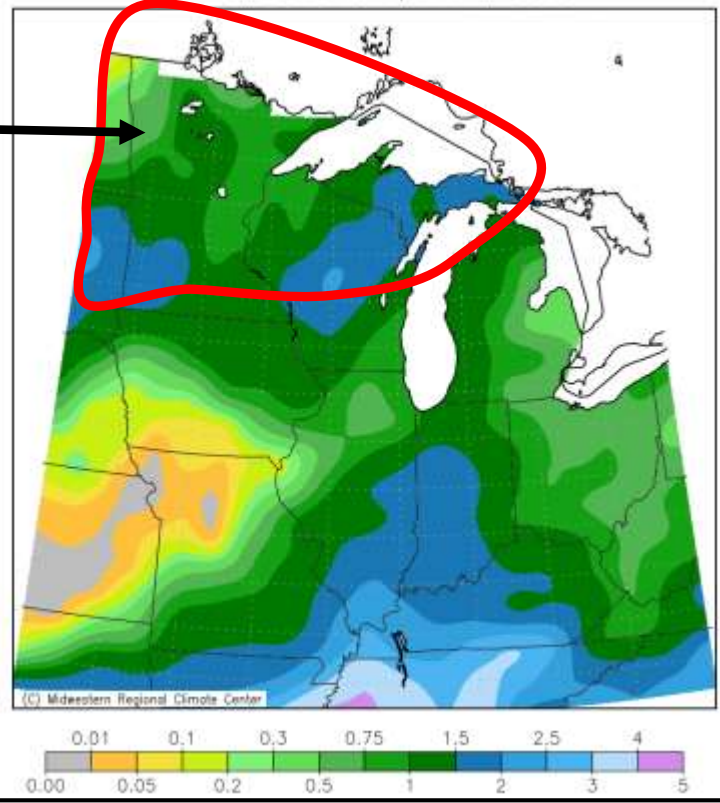
Important Forecast Changes:

NEW Renewed rises will occur due to the heavy rain that fell on Wednesday combined with the snowmelt runoff working through the river systems. The more significant rises will be seen between Dubuque and the Quad Cities, with lesser rises going downstream.



Last 10 Days Precipitation

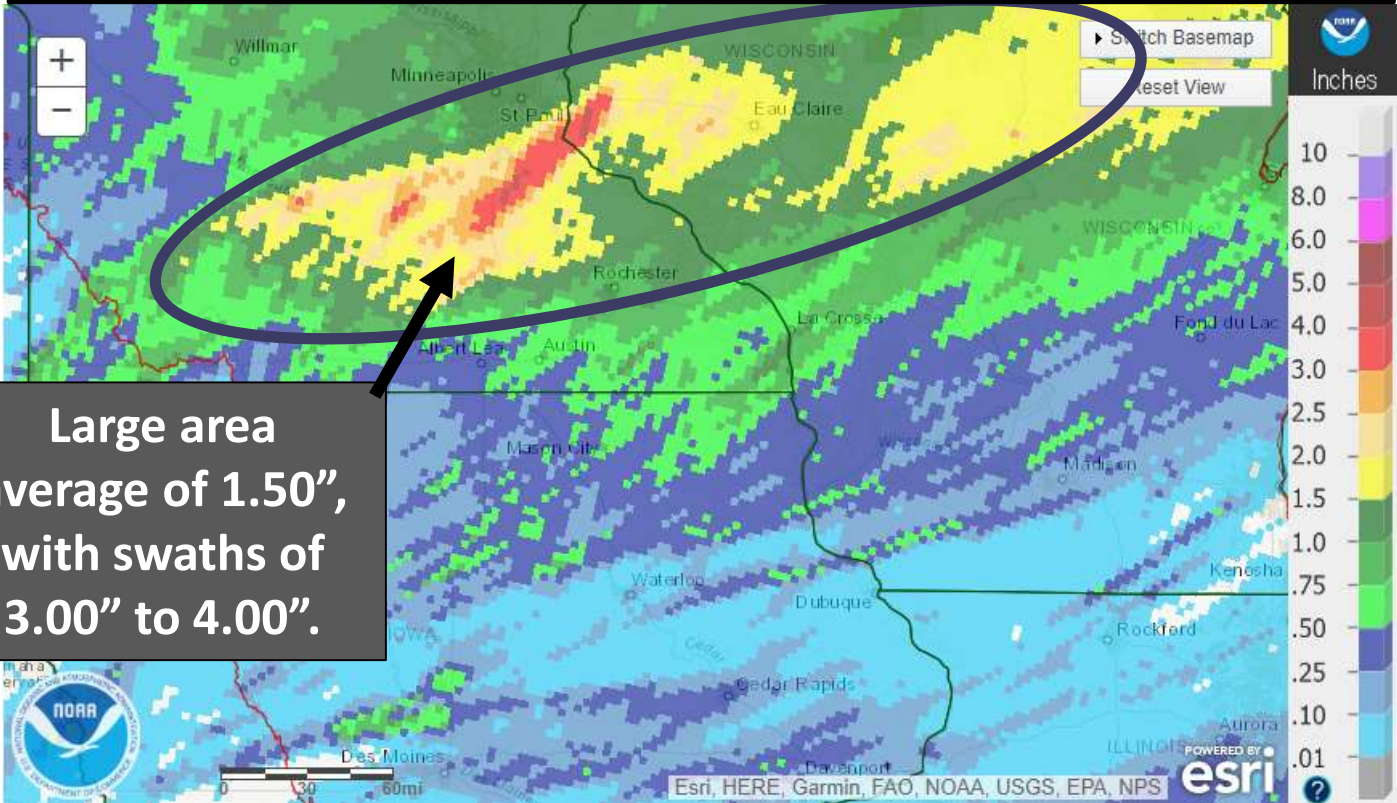
Accumulated Precipitation (in)
April 8, 2019 to April 14, 2019



Mainly Snow →

Precipitation in the last 10 days has been focused in the northern parts of the Mississippi River watershed. These areas are saturated so considerable runoff is moving into the Mississippi River.

Total rainfall Estimates from Wednesday and Wednesday Night.



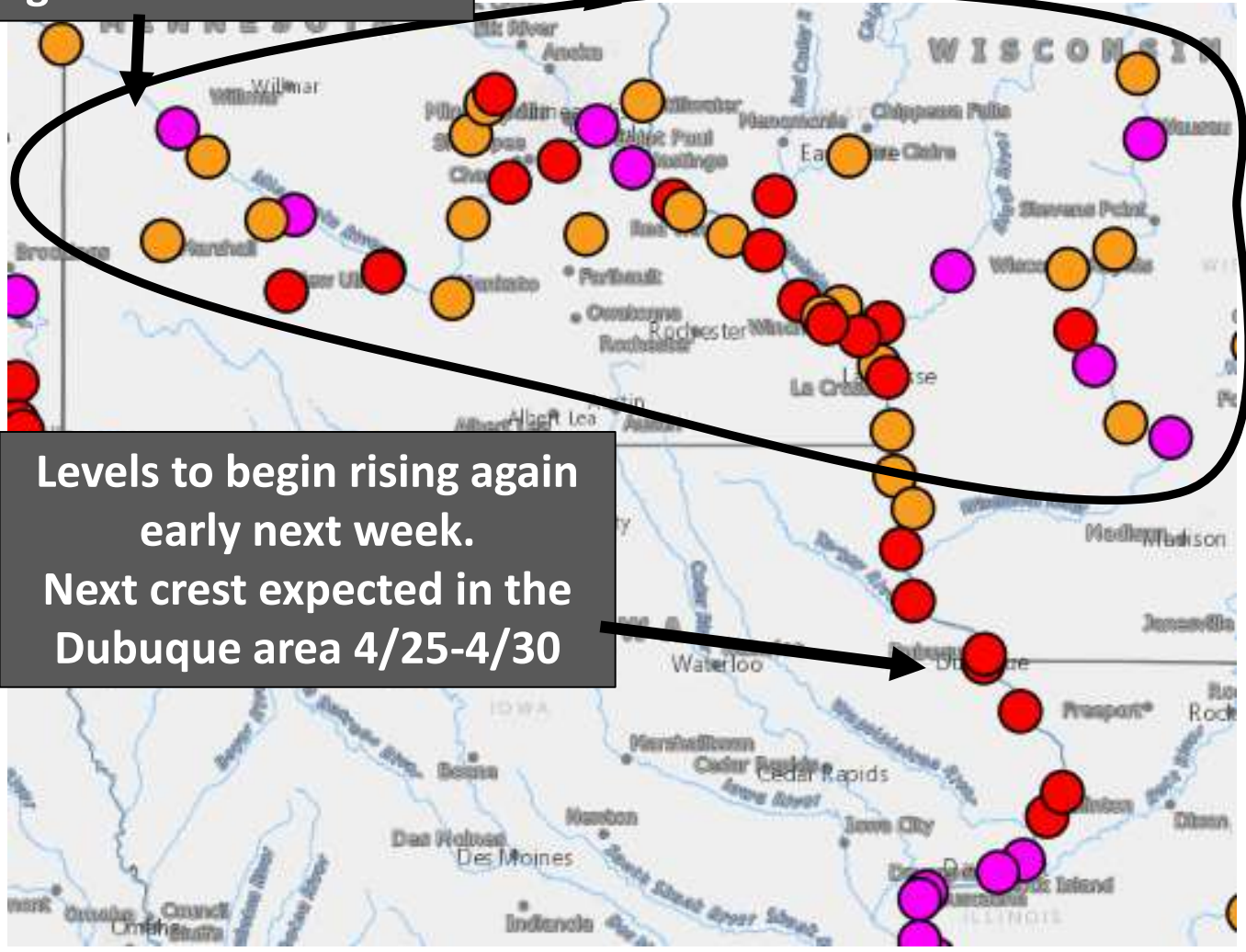
Large area average of 1.50", with swaths of 3.00" to 4.00".



Rising River Levels

- Rises ongoing due to snowmelt runoff moving through the Minnesota and Wisconsin River watersheds.
- Very little snow remains on the ground so all runoff is now in the river systems.
- Runoff from Wednesday's heavy rains will add to the river level rises as it moves through the river in conjunction with the snowmelt rises.
- Expect levels to begin rising early next week in the Dubuque area.

Many rivers observing rising levels in this area.



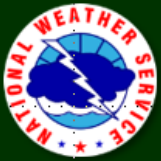
Levels to begin rising again early next week.
Next crest expected in the Dubuque area 4/25-4/30



Mississippi Flood Crest

Snowmelt Crest combining with runoff from heavy rain and will be moving down the Mississippi River

- River levels will begin rising early next week in the Dubuque area, with downstream locations seeing rises beginning by the end of the work week.
- New crest wave is likely to occur next weekend through early May.
- Rainfall in the next 2 weeks could cause changes to these dates.
- Crest heights are very uncertain and still beyond the 7 day forecast period.



MISSISSIPPI RIVER CREST INFO

NATIONAL WEATHER SERVICE
QUAD CITIES

<u>Location</u>	<u>Today's Level</u>	<u>Today's Trend</u>	<u>Expected Crest Timing</u>
Dubuque LD 11	●	↘	4/25-4/29
Dubuque Railroad Bridge	●	↘	4/25-4/29
Bellevue	●	↘	4/25-4/29
Fulton	●	→	4/26-4/30
Camanche	●	→	4/26-4/30
Le Claire	●	→	4/27-5/1
Rock Island	●	→	4/27-5/1
Illinois City	●	→	4/28-5/2
Muscatine	●	→	4/28-5/2
New Boston	●	↗	4/28-5/2
Keithsburg	●	↗	4/28-5/2
Gladstone	●	↘	4/29-5/3
Burlington	●	→	4/29-5/3
Keokuk	●	↗	4/30-5/4
Gregory Landing	●	↗	4/30-5/4

Major
Flooding

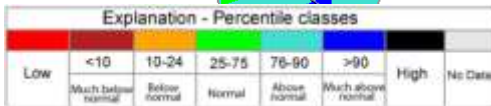
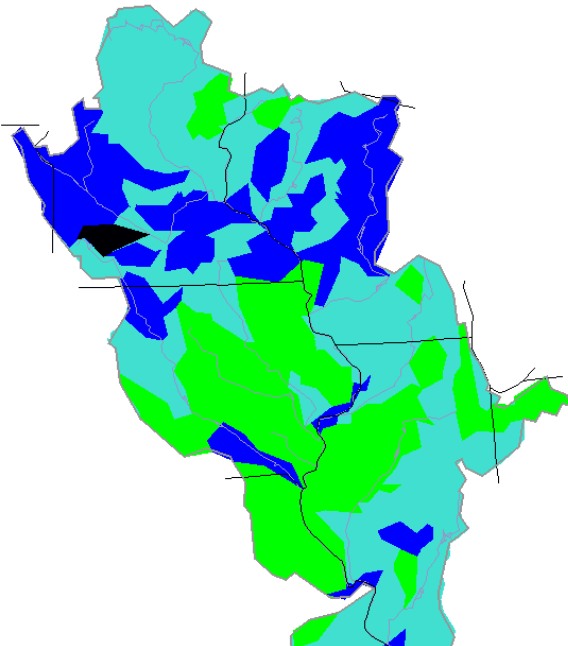
Moderate
Flooding



Current Streamflows and Soil Moisture

**Daily Streamflow vs Historical
Thursday, April 17, 2019**

Wednesday, April 17, 2019

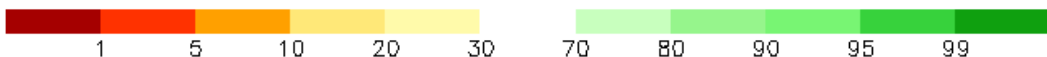
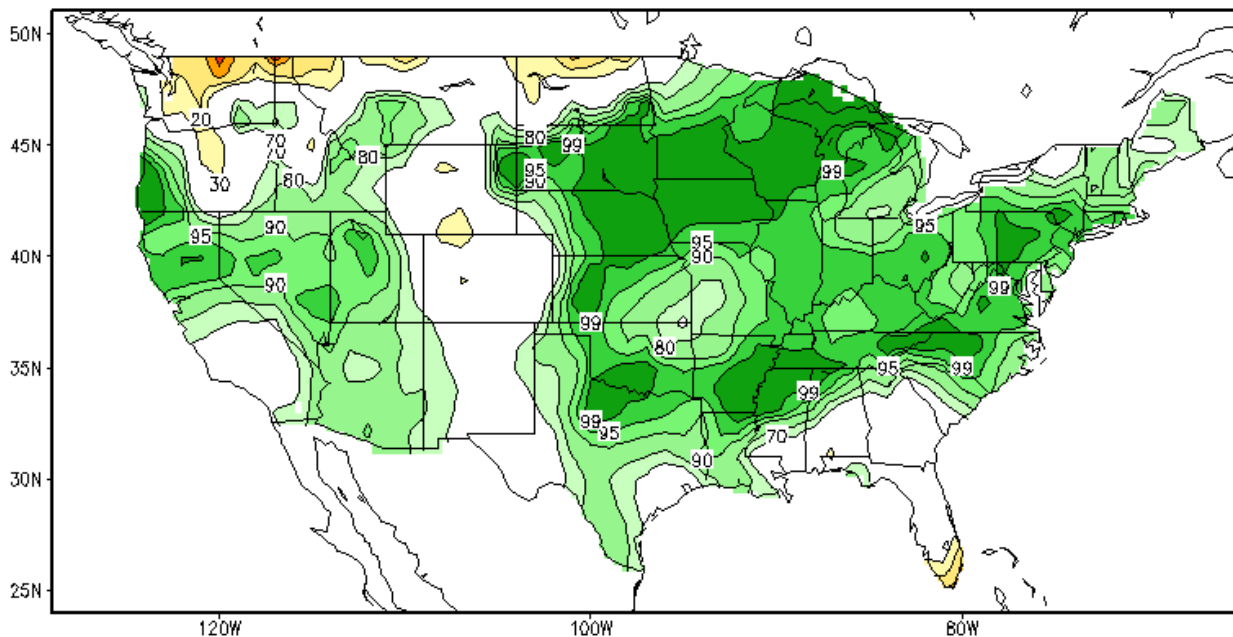


River levels: near or above normal for the entire Upper Mississippi River Watershed

Soil Moisture: very high across the region. Despite spring green-up ongoing, soils remain very saturated.

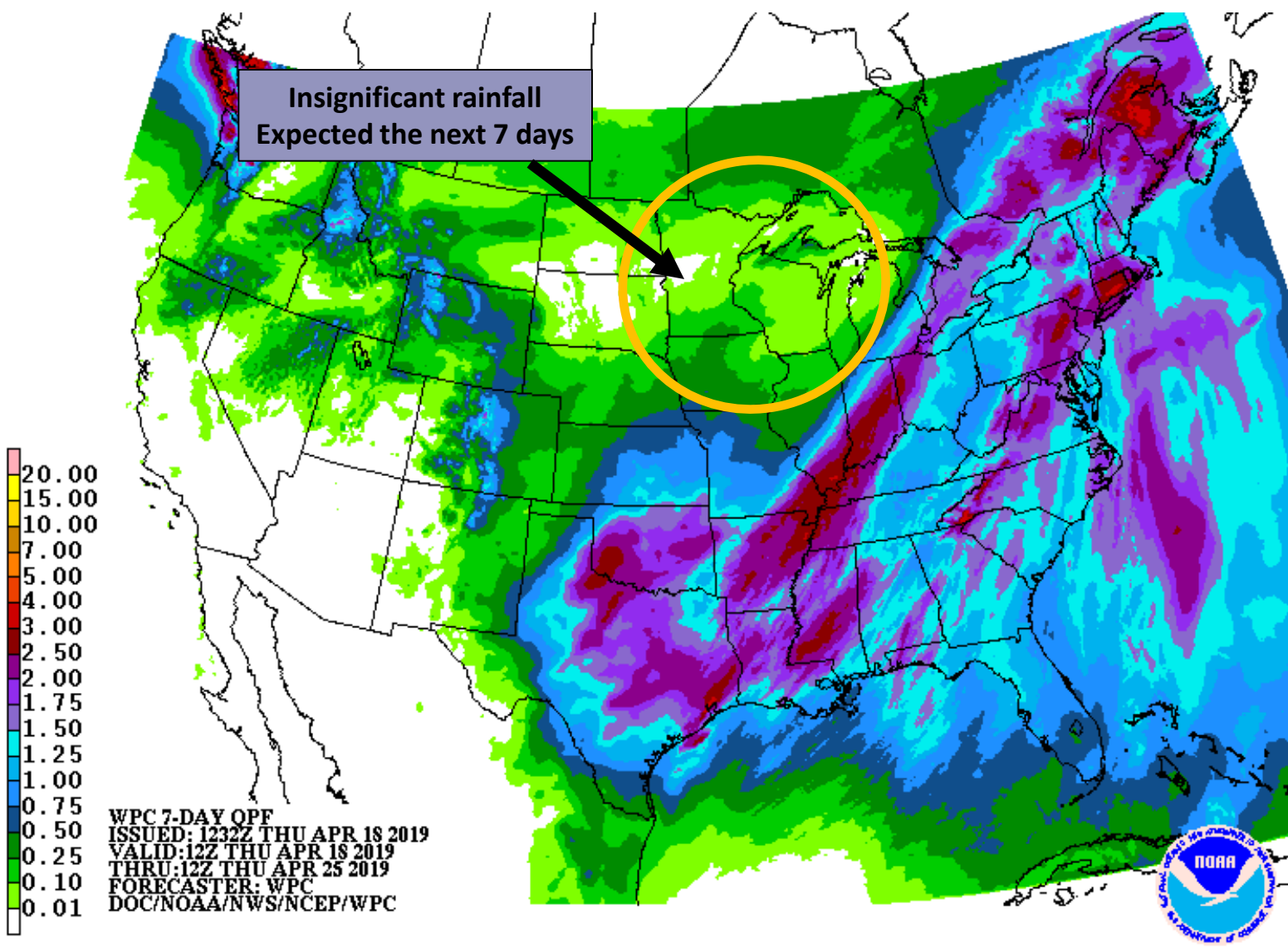
Whole region remains very susceptible to additional rises from heavy rains.

Calculated Soil Moisture Ranking Percentile
APR 17, 2019





Forecast Rainfall through next Thursday

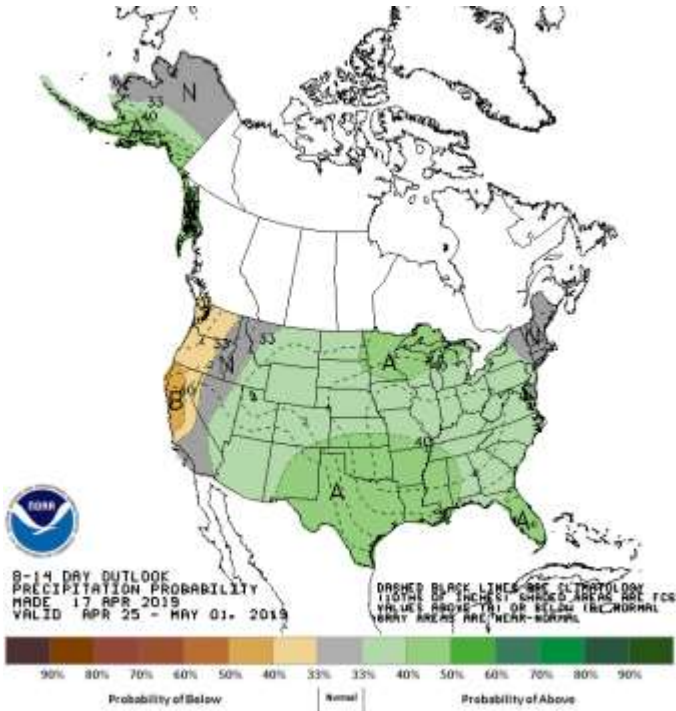


Active pattern this next week, with several chances for rain. However, currently no signals for heavy rain in the region through next Thursday.



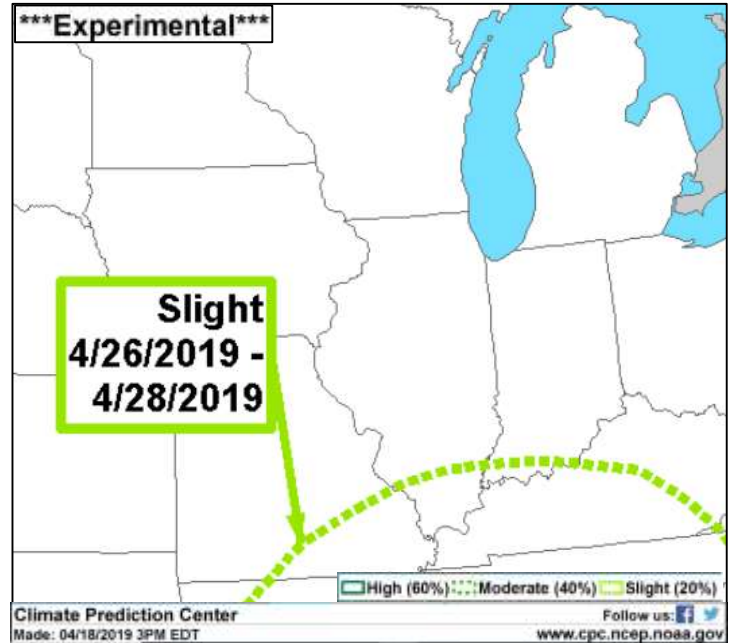
Looking Ahead: April 25th → May 1st

Precipitation

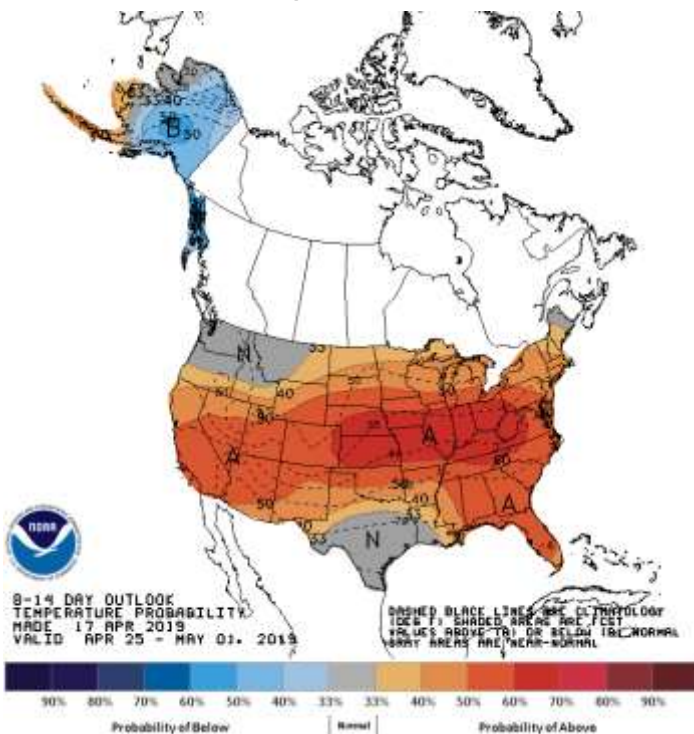


Risk of Heavy Precipitation

Valid 4/25/2019-5/1/2019



Temperatures



- An active pattern continues for the last week in April, but heavy rain is not currently a threat locally or upstream.
- If rainfall amounts of near or slightly above normal are realized, impacts to the river levels will be minimal.



Message of the Day:

- An additional crest is expected on the Mississippi River due to runoff from snowmelt and heavy rain from areas upstream.
- Rises can be expected to start next week (4/21-4/26) Beginning in the Dubuque area early in the week and the Keokuk area late next week.
- Crest heights are very uncertain at this time and beyond the 7 day forecast.
- Active weather is expected for the next 10 days, but there are currently no signals for heavy rain, which will cause little changes to river levels.
- The entire region remains susceptible to high runoff amounts with any rainfall.



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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