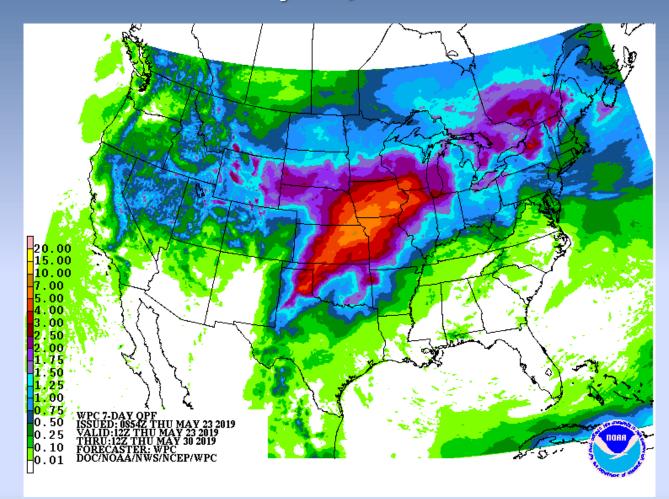


NWS Quad Cities Flood Update May 23, 2019







National Weather Service



Main Points

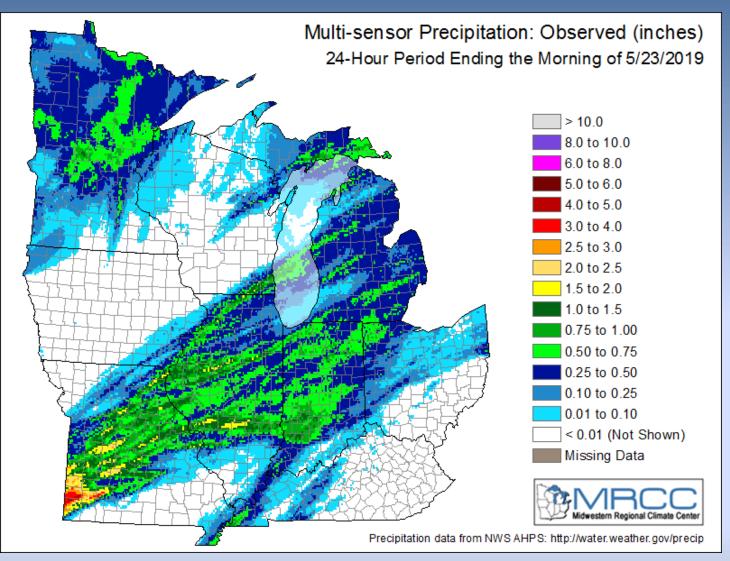
- Mississippi River rises are expected to begin over the weekend!
 - Confidence is high that renewed rises will occur.
 - Confidence is not high on the degree of rises, fairly wide potential range
- Tributary Rivers rises are likely with most watersheds getting moderate to heavy rain at some point over the next week.
 - Flooding?? Near Bankfull??
- Chances for Excessive Rainfall/Flash Flooding tonight through Sunday
- Rain is expected daily for the next week.
- Active weather through week 2.

Current forecasts viewed on the NWS webpage only incorporate 24 hours of forecast rainfall. These forecasts show what would occur with dry weather beyond 24 hours.





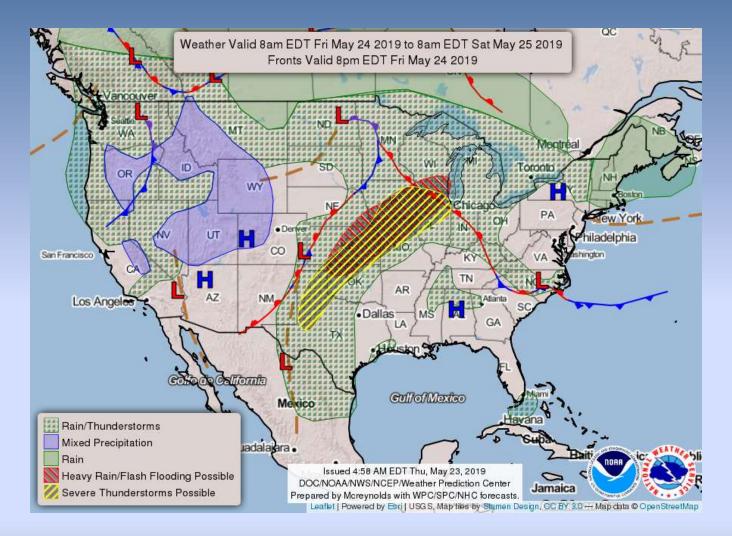
Observed Rainfall: Past 24 hours



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Weather Scenario for this Week

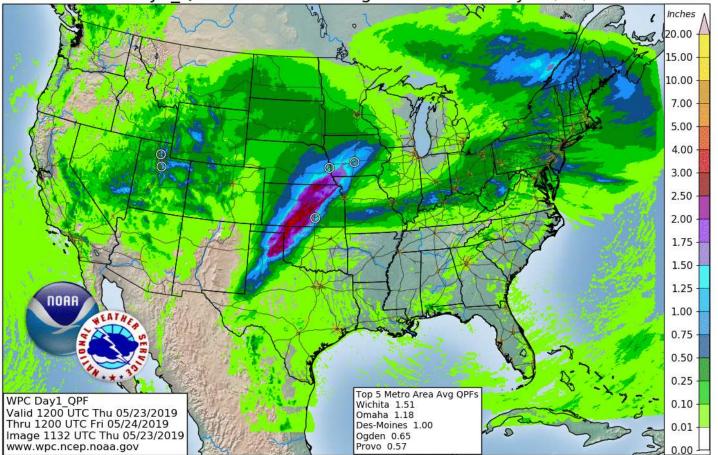


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Weather Scenario for this Week

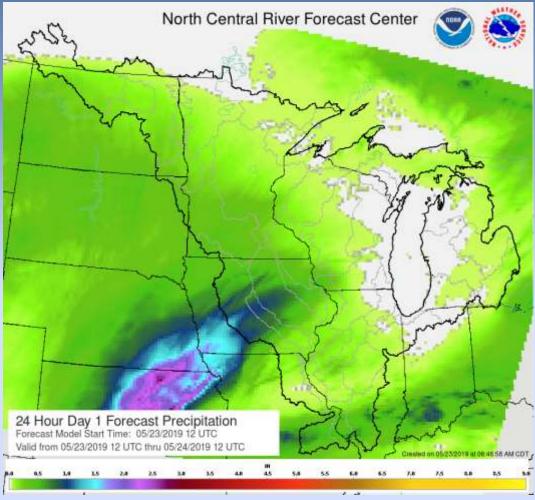
WPC Day1_QPF Valid 24h ending 1200 UTC Friday 05/24/2019



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Day 1 Rainfall Forecast (this rain <u>IS</u> included in today's river forecasts)



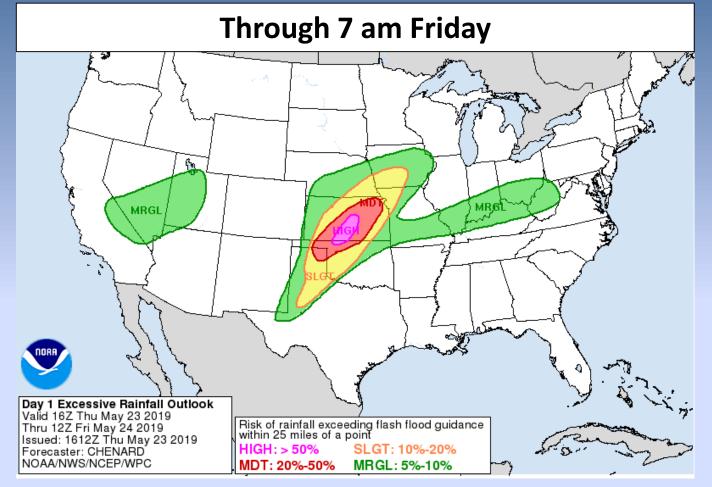
through 7 am Friday



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Day 1 Excessive Rainfall Forecast



This graphic highlights areas that have potential to receive rainfall amounts or rainfall rates that could lead to flash flooding.

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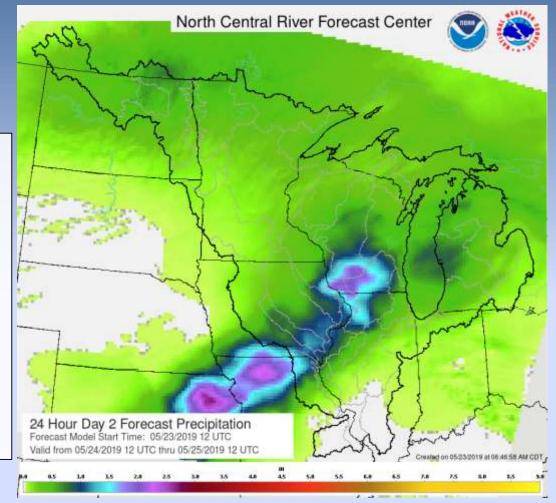
The entirety of this rainfall will not be included in the river forecasts until Friday morning.

Expect the updated forecasts on Saturday to be higher than previous forecasts along the Mississippi River as well as on tributaries that see

rainfall.

Day 2 Rainfall Forecast

(amounts are <u>NOT</u> included in today's river forecasts)



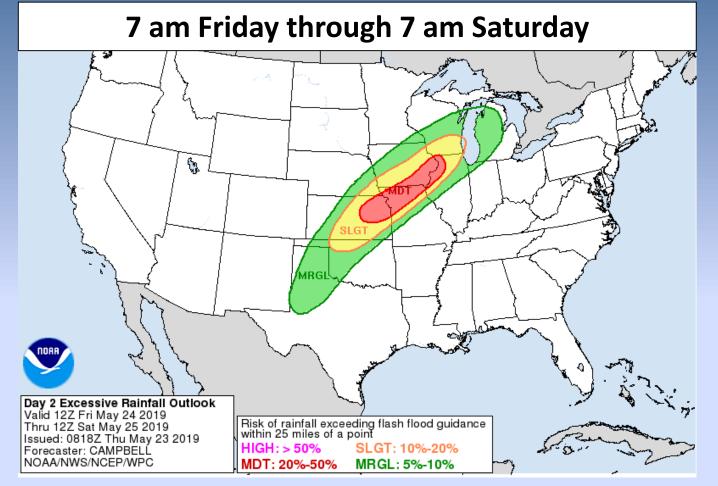
7 am Friday through 7 am Saturday



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Day 2 Excessive Rainfall Forecast



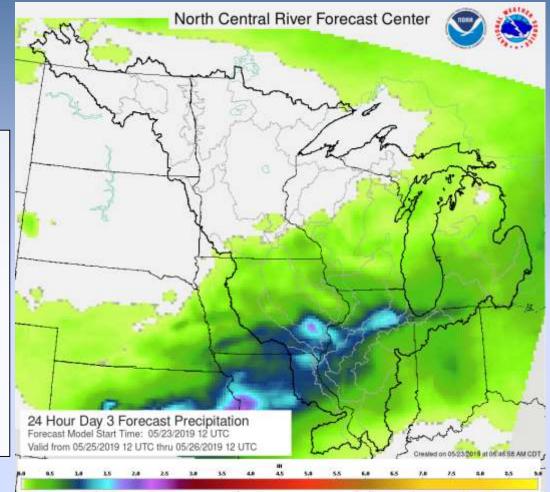
This graphic highlights areas that have potential to receive rainfall amounts or rainfall rates that could lead to flash flooding.

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Day 3 Rainfall Forecast

(amounts are <u>NOT</u> included in today's river forecasts)



7 am Saturday through 7 am Sunday



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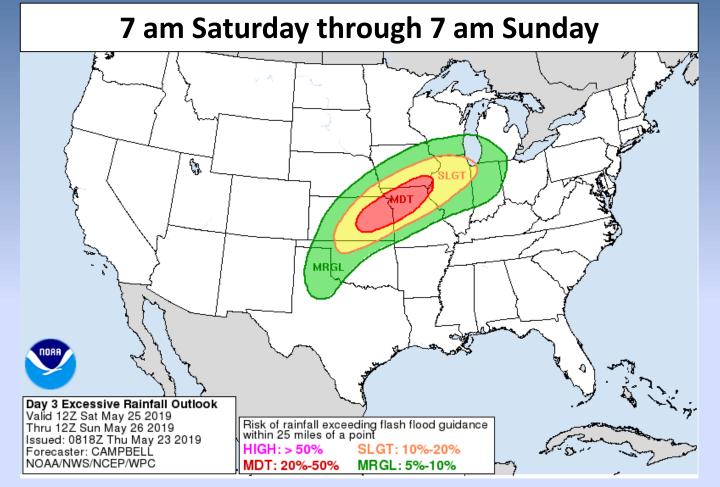
Building a Weather-Ready Nation

Adding more water to the river systems through this 24 hour period will likely cause additional rises to the forecasts once this rainfall is ingested into the river forecasts.

Still some uncertainty in the amounts and location of heaviest rains for this time period.



Day 3 Excessive Rainfall Forecast



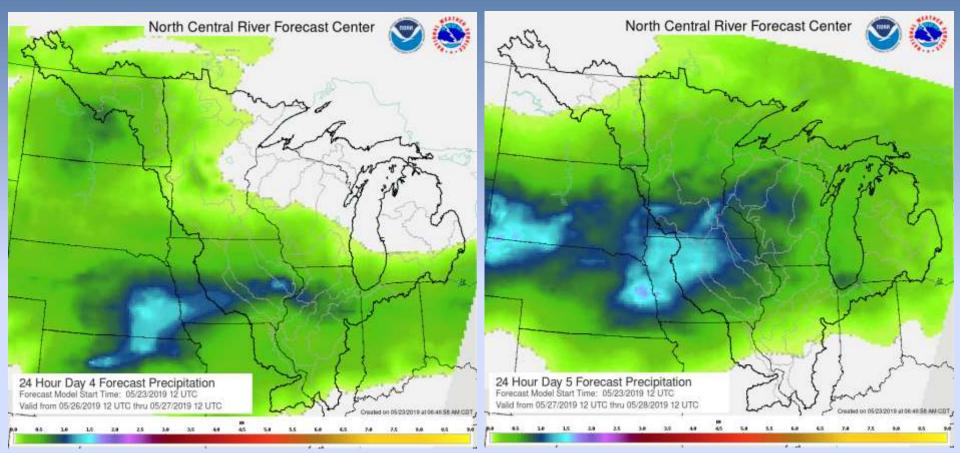
This graphic highlights areas that have potential to receive rainfall amounts or rainfall rates that could lead to flash flooding.

National Weather Service



Days 4 & 5 Forecast Precipitation

(amounts are <u>NOT</u> included in today's river forecasts)



Sunday and Sunday Night

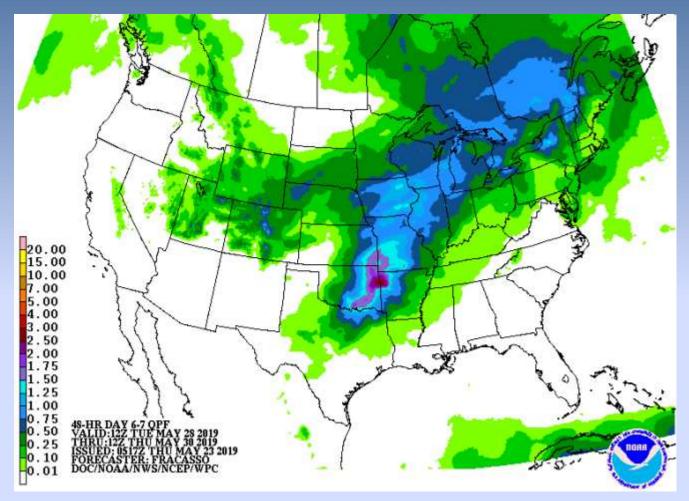
Monday and Monday Night

National Weather Service



Days 6 & 7 Forecast Precipitation

(amounts are <u>NOT</u> included in today's river forecasts)



Next week: Tuesday through Wednesday Night

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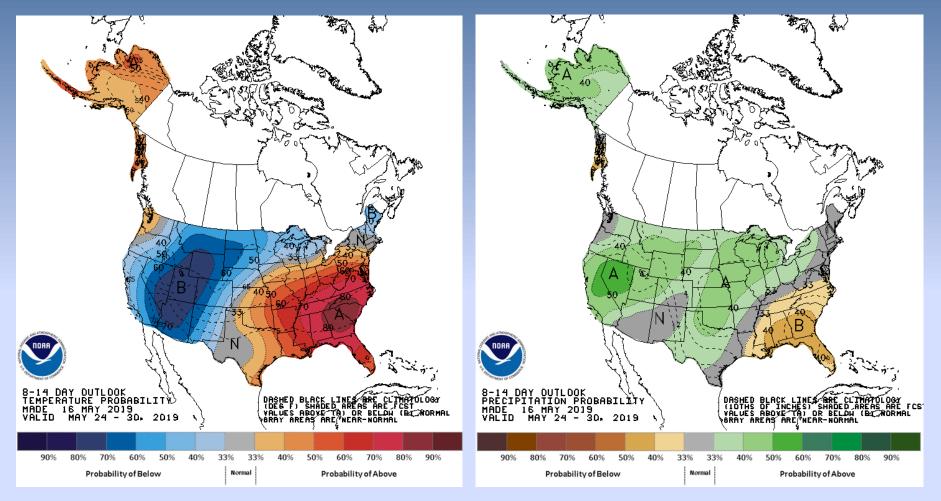
Potential Mississippi River Rises

MEATINE	· · · · ·	Reach At Least (feet)	Most Likely Crest Range	Crest
	Location	High Confidence	(top is high end/low confidence)	Timing
	Dubuque LD 11	18.5	18.5 → 21.5	5/31 → 6/3
MISSISSIPPI	Dubuque RR Bridge	20.0	20.0 → 23.5	5/31 → 6/3
	Bellevue LD12	18.0	18.5 → 21.0	5/31 → 6/4
RIVER	Fulton LD13	18.0	18.5 → 21.5	5/31 → 6/5
СПГСТ	Camanche	19.5	20.0 → 23.0	5/31 → 6/5
CREST	Le Claire LD14	12.5	13.0 → 16.0	5/31 → 6/5
FORECASTS	Rock Island LD15	18.0	19.0 → 22.0	5/31 → 6/6
Timing of inflows	Illinois City LD16	18.0	19.0 → 23.5	5/31 → 6/6
from tributaries	Muscatine	19.5	20.5 → 24.5	5/31 → 6/6
will be key to	New Boston LD17	19.5	20.0 → 23.5	6/1 → 6/6
timing and heights	Keithsburg	18.5	19.0 → 22.0	6/1 → 6/4
of peak crests.	Gladstone LD18	15.5	16.5 → 20.0	6/1 → 6/4
NATIONAL WEATHER	Burlington	20.0	21.0 → 24.5	6/1 → 6/4
SERVICE QUAD CITIES	Keokuk LD19	20.0	21.0 → 24.5	5/31 → 6/5
QUAD CITIES	Gregory Landing	22.0	23.0 → 26.0	5/31 → 6/5

National Weather Service



Week 2 Outlook

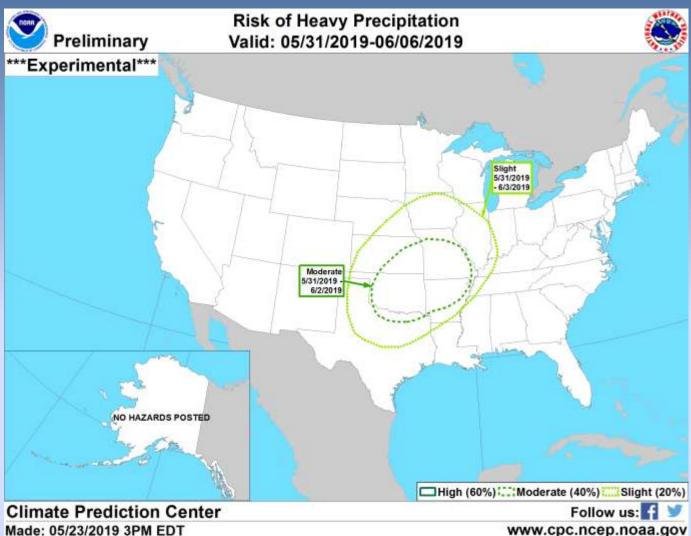


May 24th – May 30th



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Bottom Line for the Next Week

- River levels will be rising (both main-stem Mississippi River and Tributary Rivers that see heavy rain).
- The current rainfall forecast: 7 day totals have heaviest widespread rains across lowa and into southern Wisconsin and northwest Illinois.
- Confidence in the amounts and placement of forecast rainfall through the next 7 days is not high, however confidence is high that some areas will receive heavy rain, leading to high confidence on Mississippi River rises.
- Very little confidence in the weather scenario beyond 7 days, but active weather will mean changes to projected crests could change.

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Information Sources

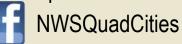
- Advanced Hydrologic Prediction Service (AHPS) (observations and forecasts, etc) <u>water.weather.gov</u>
- Local Quad Cities WFO AHPS <u>water.weather.gov/ahps2/index.php?wfo=DVN</u>
- North Central River Forecast Center <u>weather.gov/ncrfc</u>
- National Operational Hydrologic Remote Sensing Center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

Quad Cities WFO Forecast Discussions (technical weather and hydrology discussion) <u>forecast.weather.gov/product.php?site=DVN&issuedby=DVN&product=AFD</u>

Find out more information at: <u>www.weather.gov/dvn/River_Levels</u>

Follow us on Facebook and Twitter for more up to date information:

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