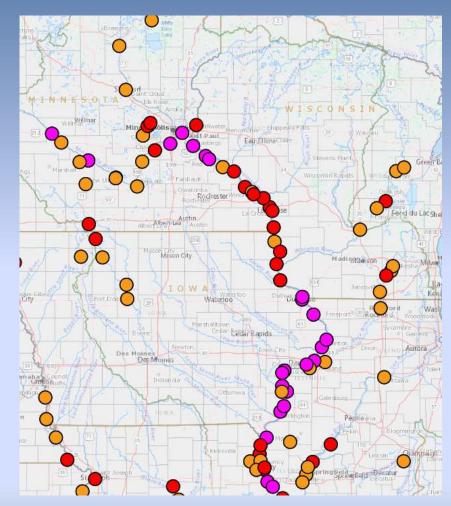


NWS Quad Cities Flood Update April 1, 2019





National Weather Service



Current Warnings



Flood Warnings remain on the Rock & La Moine River in Illinois & the Cedar River in Iowa. ** All are observing receding levels!

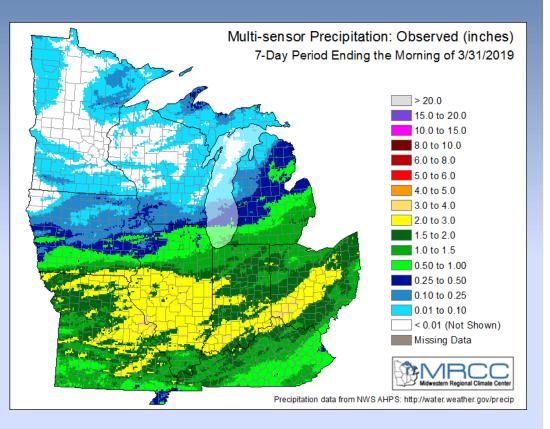
Switch Basema 0 + OVaterio Reset Vie 0 Freeport Cedar Rapids 892 ft . 00 Clinton Sterlin Grinnel Davenor 0 nuscatine IL LINOIS 0 **Ottum**w 0 ٥ Galesburg Jurlington 64 # Macomb Blo esit Esri, HERE, Garmin, FAO, USGS, EPA, NPS

Mississippi River Continues to Rise

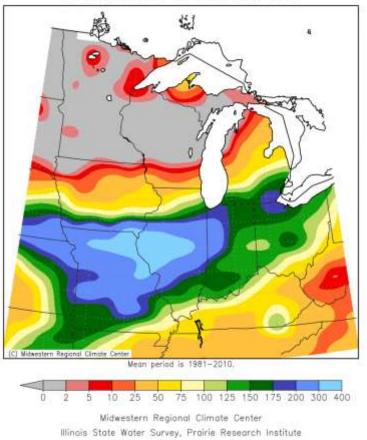
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Observed Precipitation: 3/24 – 3/30



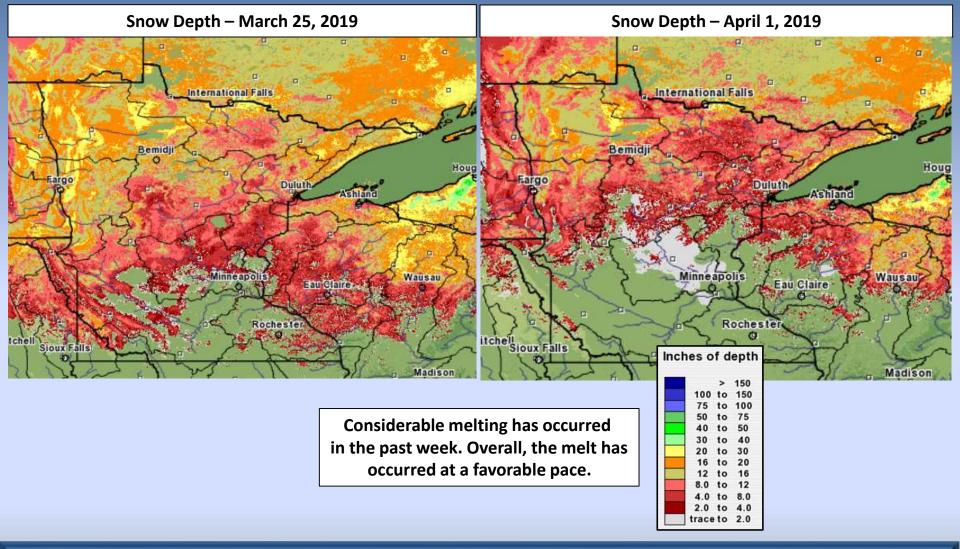
Accumulated Precipitation: Percent of Mean March 24, 2019 to March 30, 2019



University of Illinois at Urbana-Champaign

National Weather Service

Snowpack Change in the Past 7 Days



National Weather Service



River Conditions Upper Mississippi River Basin

The graphic shows the number of rounds of snowmelt that occurred across the Upper Mississippi River Watershed. With every melt, the number of streamgages with above normal flows increased.

Explanation - Percentile classes

25-75

76-90

>90

luch abo

High

No Date

10-24

Low

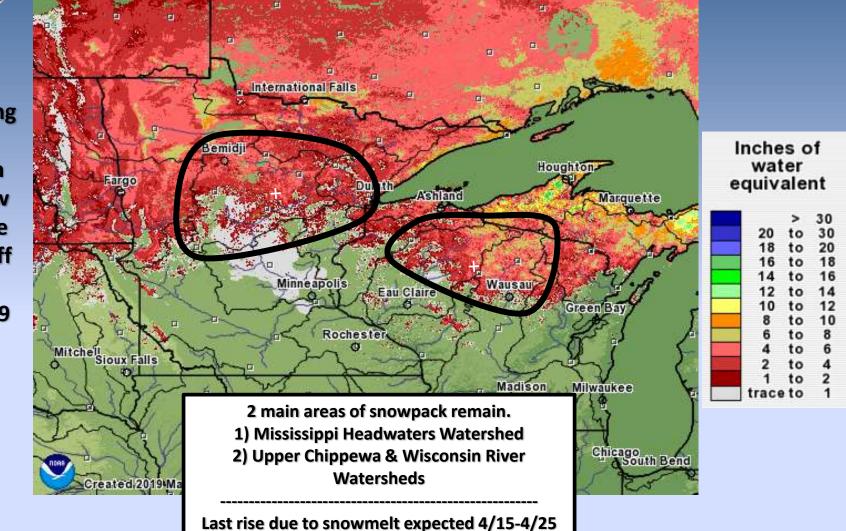
Upper Mississippi 100 90 ²ercentage of streamgages 80 70 60 50 40 The 4 different rounds of 30 melting lessened the 20 chances for record 10 flooding on the Mississippi n 20 15 25 30 5 15 25 5 20 10 10 **River substantially.** February March January 2019 Melt #1 Melt #2 Melt #3 Melt #4

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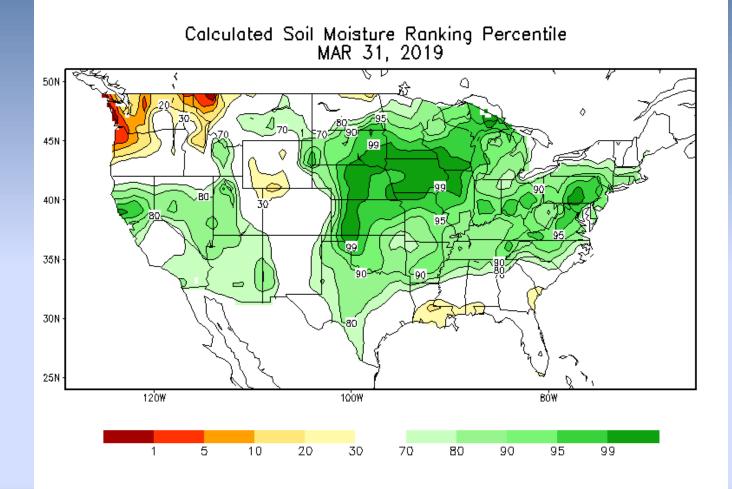
Current Snow Water Equivalent

Remaining liquid water in the snow available for runoff as of 4/1/2019



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Mississippi River Crest Information



- Dubuque → Fulton: Crests are now within 7 days
 Camanche → Muscatine: Crests at the end of the 7 day forecast
- ➢ New Boston → Gregory Landing: Crests still beyond 7 days (4/8-4/12)

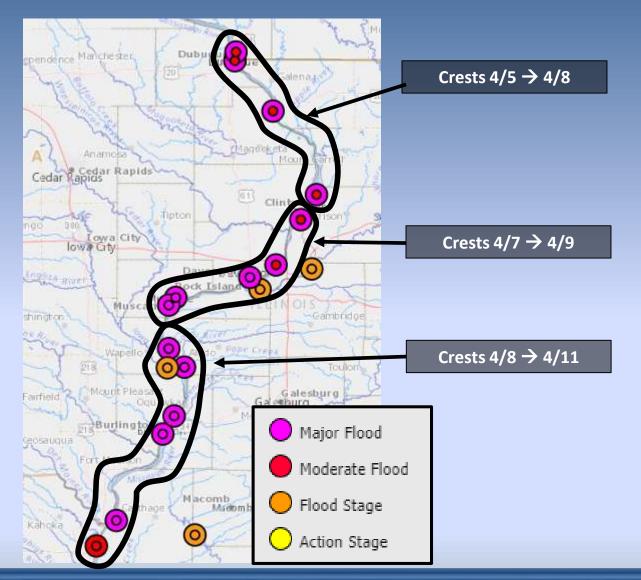
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Forecasts

Current and Forecast stages for the next 7 days.

Small circle – current flood category Large circle – forecast flood category that is forecasted in the next 7 days.

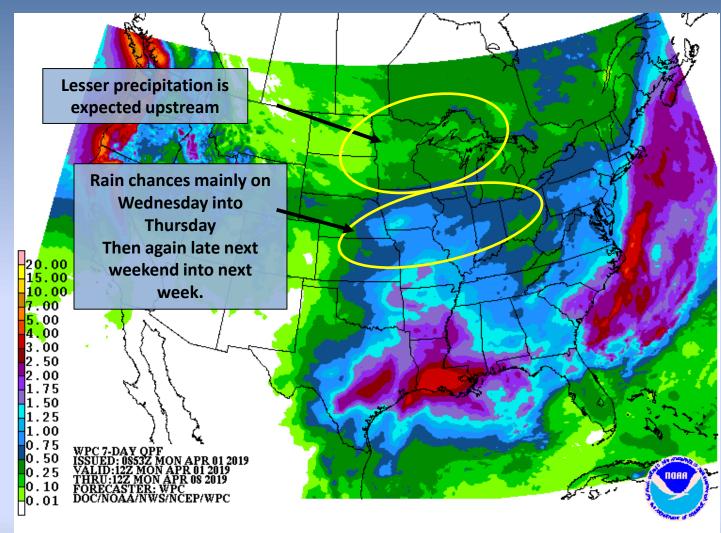




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7-Day Forecast Precipitation



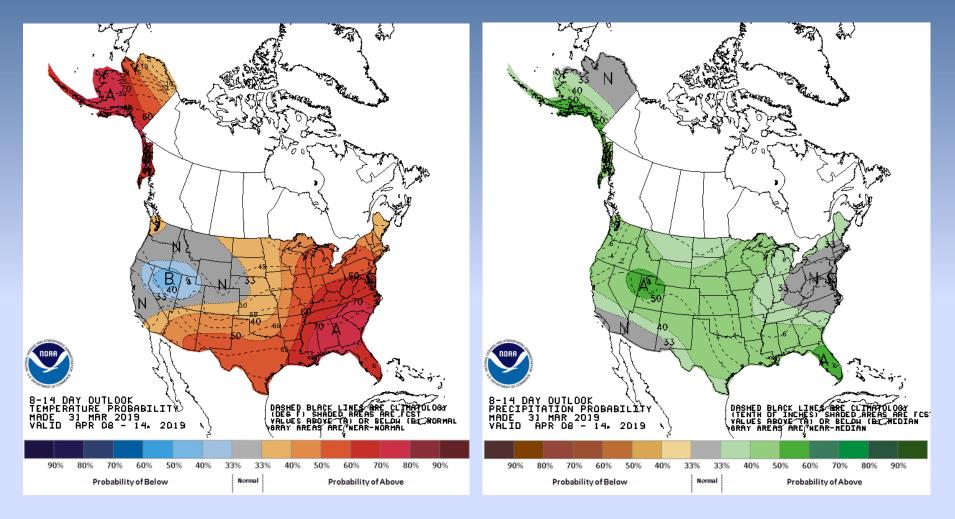
Trend continues for wetter conditions in the local area and to the south, with drier conditions to the north.

Considerable uncertainty in the rainfall forecast for the next week to 10 days.

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Week 2 Outlook



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Week 2 Precipitation Risk



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Summary

- Majority of the snowpack has melted. What remains may cause another minor rise from 4/15 → 4/25.
- Crests are now within 7 days in the northern parts of the area.
- Additional rainfall in the next 2 weeks will be a key player on any changes in the timing or crest heights.
- The entire area remains very susceptible to additional river rises with any rainfall.
- The rainfall forecast for the next 2 weeks does show potential for a wetter weather pattern, but confidence is low on how much rain will fall or where it will fall.
- The longer the rivers stay at high levels, the more chances there will be to have heavy rains and then subsequent river rises.

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Information Sources

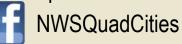
- Advanced Hydrologic Prediction Service (AHPS) (observations and forecasts, etc) <u>water.weather.gov</u>
- Local Quad Cities WFO AHPS <u>water.weather.gov/ahps2/index.php?wfo=DVN</u>
- North Central River Forecast Center <u>weather.gov/ncrfc</u>
- National Operational Hydrologic Remote Sensing Center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

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