2020 SPRING FLOOD OUTLOOK

JOHN WETENKAMP

NWS LA CROSSE, WI







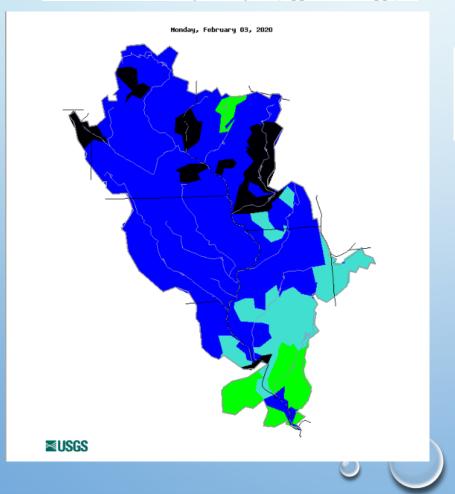
SPRING 2020 FLOODING POTENTIAL

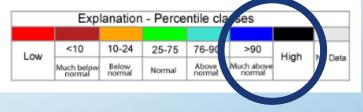
- INCREASED THREAT FOR SPRING FLOODING
 - HIGH RIVER LEVELS
 - HIGH SOIL MOISTURE
 - SNOWPACK INCREASING (NORTHERN AREAS)
- SIGNIFICANT FLOODING IS NOT YET CERTAIN. CONTINUE TO MONITOR THE LATEST FORECASTS AND COMMUNICATIONS FROM THE NATIONAL WEATHER SERVICE.



CURRENT RIVER LEVELS

Map of daily streamflow compared to historical streamflow for the day of the year (Upper Mississippi)





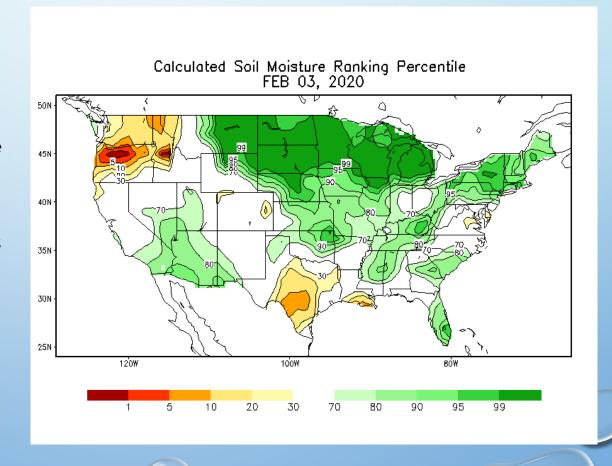
Most of the Upper Mississippi is >90 Percentile



SOIL MOISTURE

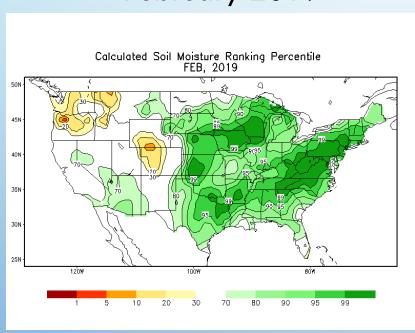
Soils are very wet from above normal precipitation over the past year.

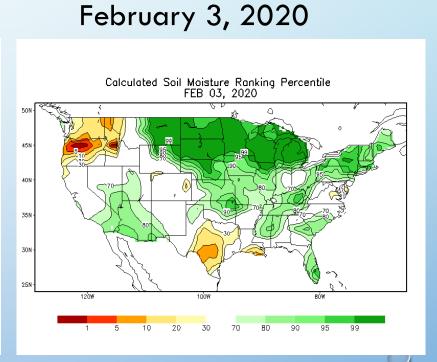
99th percentile across much of the western Great Lakes into the Dakotas.







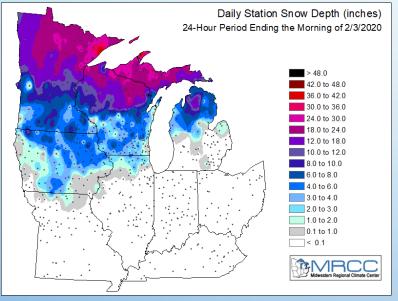




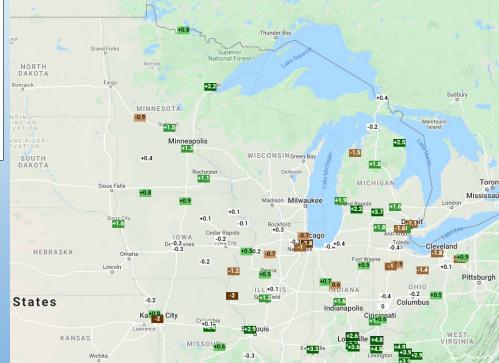




CURRENT SNOW/PRECIPITATION INFORMATION



Precipitation Departure from Normal (Past 3 Months)





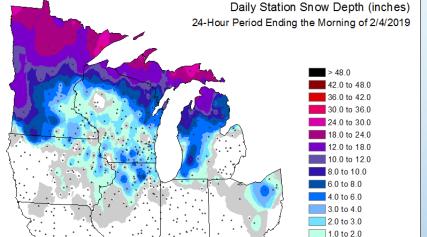


SNOWPACK COMPARISON

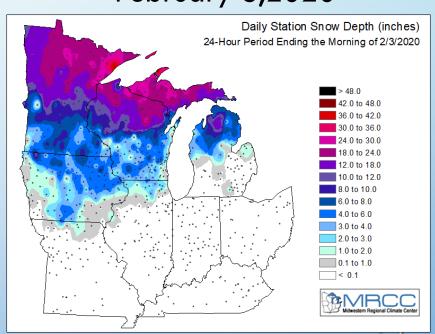
0.1 to 1.0

< 0.1

February 4,2019



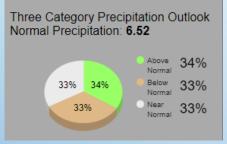
February 3,2020

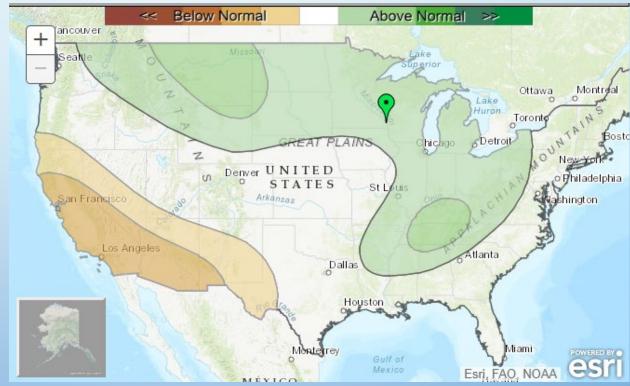




PRECIPITATION OUTLOOK THROUGH APRIL

Breakdown for La Crosse, WI



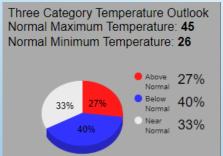


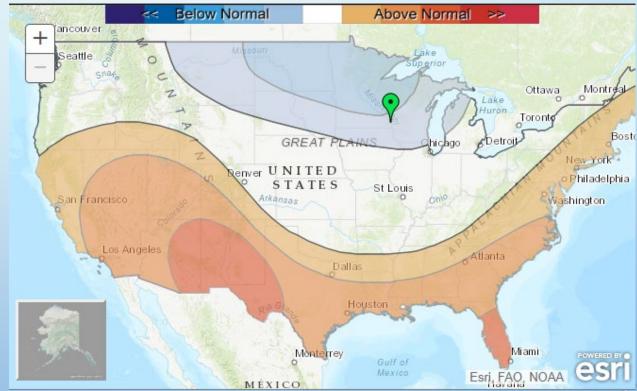




TEMPERATURE OUTLOOK THROUGH APRIL

Breakdown for La Crosse, WI

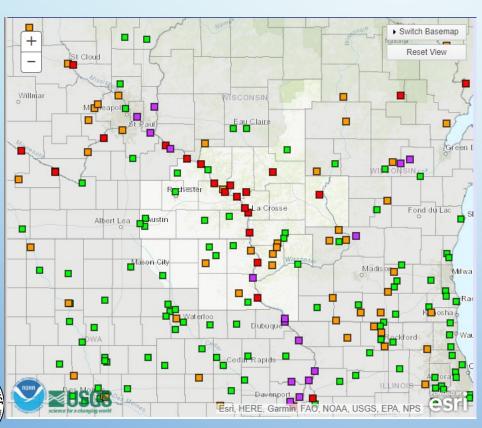








LONG-RANGE FLOOD RISK



> 50% Major Flooding

> 50% Moderate Flooding

> 50% Minor Flooding

< 50% Chance of Flooding

Long-Range Flood Risk Not Calculated Long range outlook based on conditions on 1/20/2020.

Several locations have > 50% chance of Moderate Flooding.

First Spring Flood
Outlook: 2/13/2020









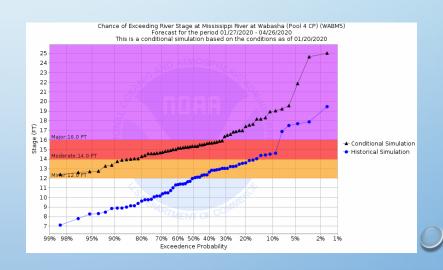


SPRING FLOOD OUTLOOK DATES

1ST ISSUANCE: FEBRUARY 13TH

2ND ISSUANCE: FEBRUARY 27TH

• 3RD ISSUANCE: MARCH 12TH





SUMMARY

- INCREASED FLOODING THREAT THIS SPRING
- HIGHER THAN NORMAL STREAMFLOW AND WET SOIL CONDITIONS INCREASE THE FLOODING THREAT.
- HOWEVER SEVERAL OTHER FACTORS GO INTO DECREASING OR INCREASING THE FLOODING THREAT.

Threat	Impact to Potential Spring Flooding
High river levels	Increased Threat
High soil moisture	Increased Threat
Winter Precipitation	Slight Increase Northern Areas
Snowpack/Liquid Equivalent	Slight Increase Northern Areas
Rate of Snowmelt	Unknown
Frost Depth	Frost In Place But Variable Depth
Spring Precipitation	Unknown





THANK YOU CONTACT INFORMATION: JOHN.WETENKAMP@NOAA.GOV

