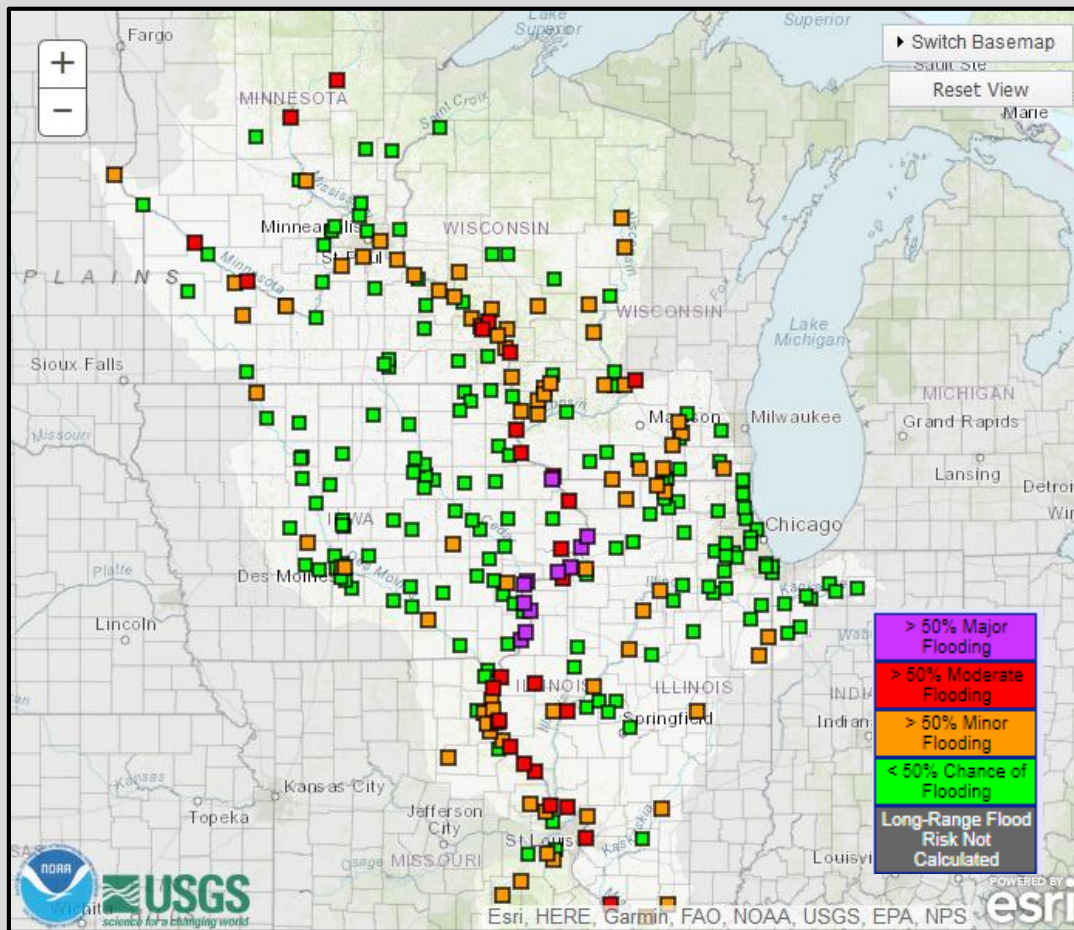




# 2020 Spring Flood Outlook – Update #2

## National Weather Service – WFO Quad Cities

March 12, 2020



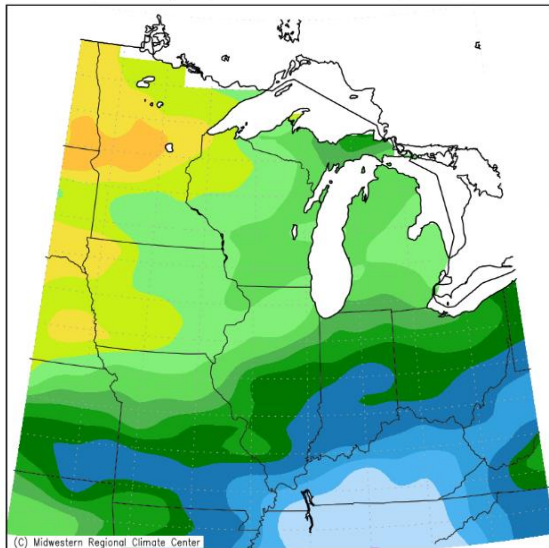
# Key Points

- Main Concerns:
  - Local Rivers: near to slightly above average for most area rivers
    - Slight improvement in past 2 weeks
    - Any flooding will now be driven by spring rains
  - Mississippi River: much above average on Mississippi River
    - Improvement over the past 2 weeks (mostly on the higher end)
- Rises ongoing on area rivers and the Mississippi river due to snowmelt runoff and recent rains.
- Spring precipitation and rate of snowmelt will influence how high river levels get, but this remains uncertain.
- An elevated risk for flooding will persist until soils are able to dry out.



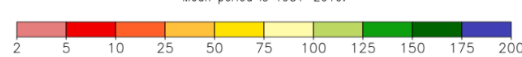
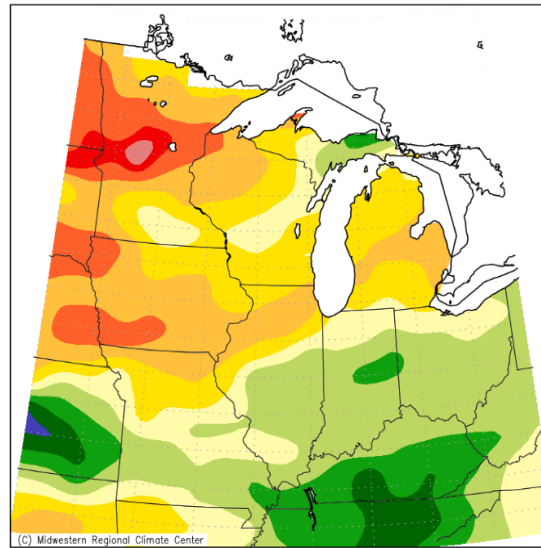
# Precipitation – Past 30 Days

Accumulated Precipitation (in)  
February 9, 2020 to March 9, 2020



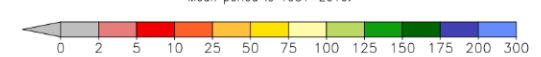
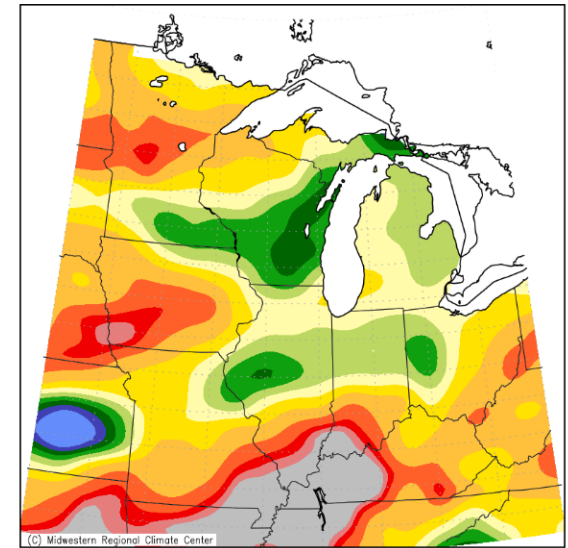
Midwestern Regional Climate Center  
Illinois State Water Survey, Prairie Research Institute  
University of Illinois at Urbana-Champaign

Accumulated Precipitation: Percent of Mean  
February 9, 2020 to March 9, 2020



Midwestern Regional Climate Center  
Illinois State Water Survey, Prairie Research Institute  
University of Illinois at Urbana-Champaign

Accumulated Snowfall: Percent of Mean  
February 9, 2020 to March 9, 2020



Midwestern Regional Climate Center  
Illinois State Water Survey, Prairie Research Institute  
University of Illinois at Urbana-Champaign

Images courtesy of Midwestern Regional Climate Center (MRCC)



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# Temperatures March

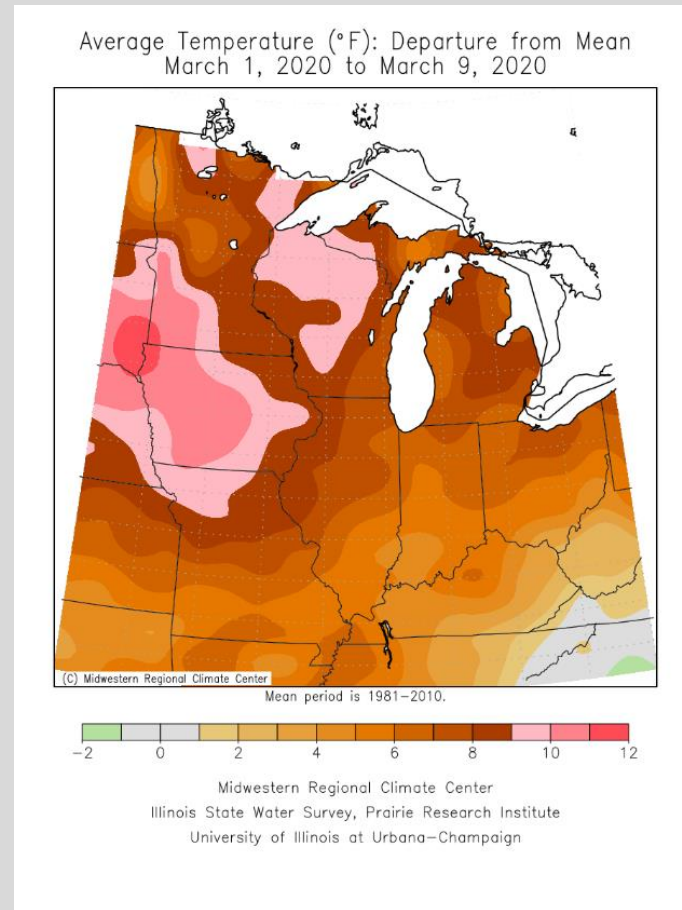
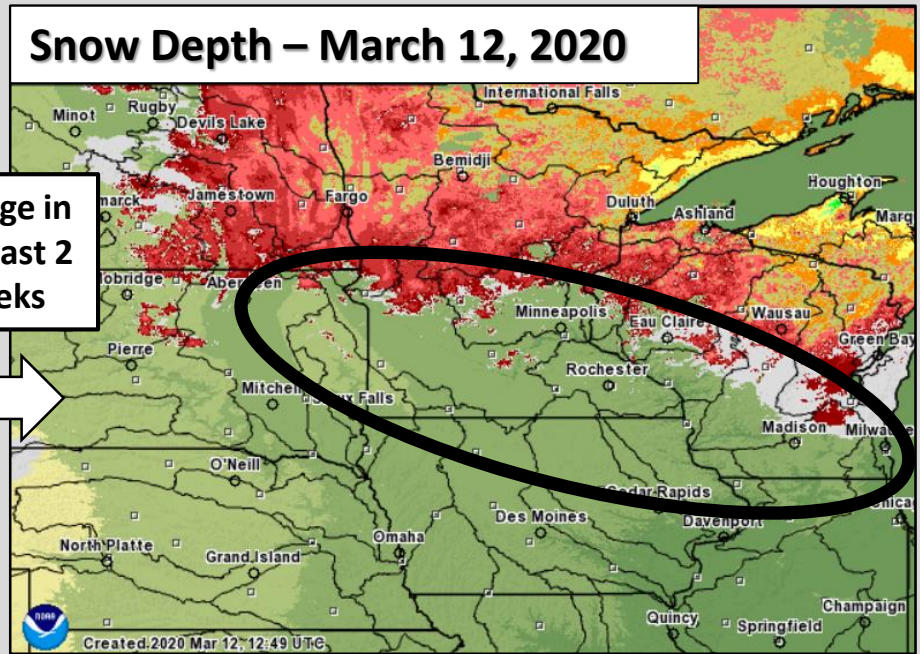
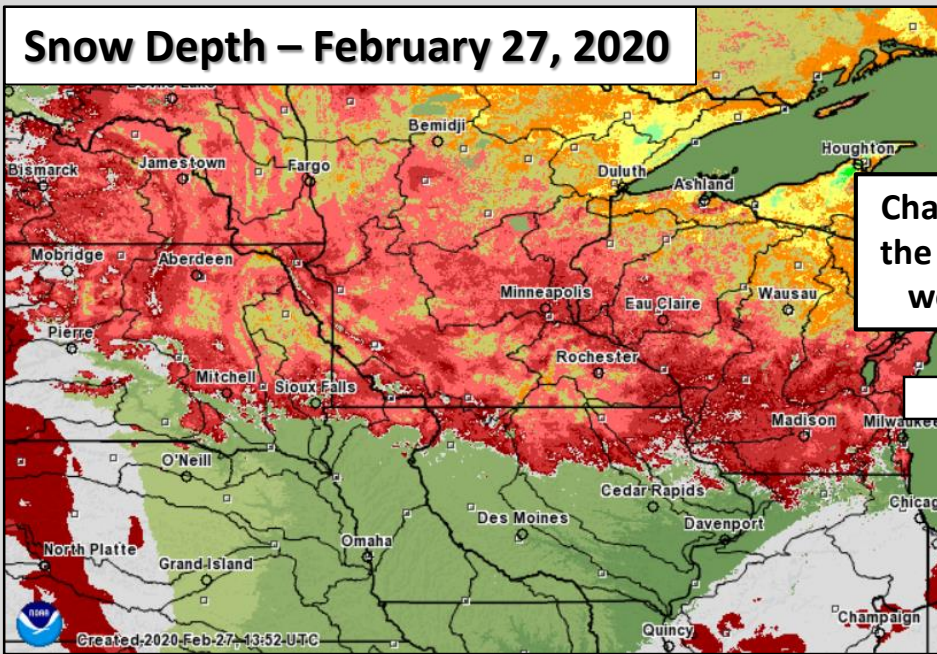


Image courtesy of Midwest Regional Climate Center (MRCC)



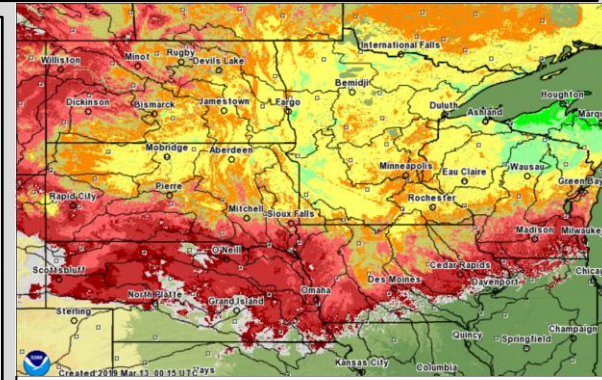
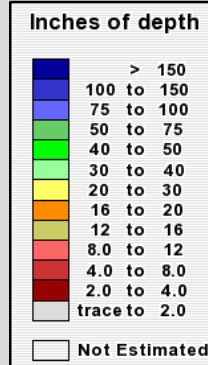
# Snow Depth



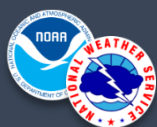
Change in the past 2 weeks

Snowpack remains far northern parts of the watershed

- Change in past 2 weeks: Significant loss of snow
- Rivers in the black circle are now observing responses from the snowmelt



Images courtesy of NOHRSC (NWS)

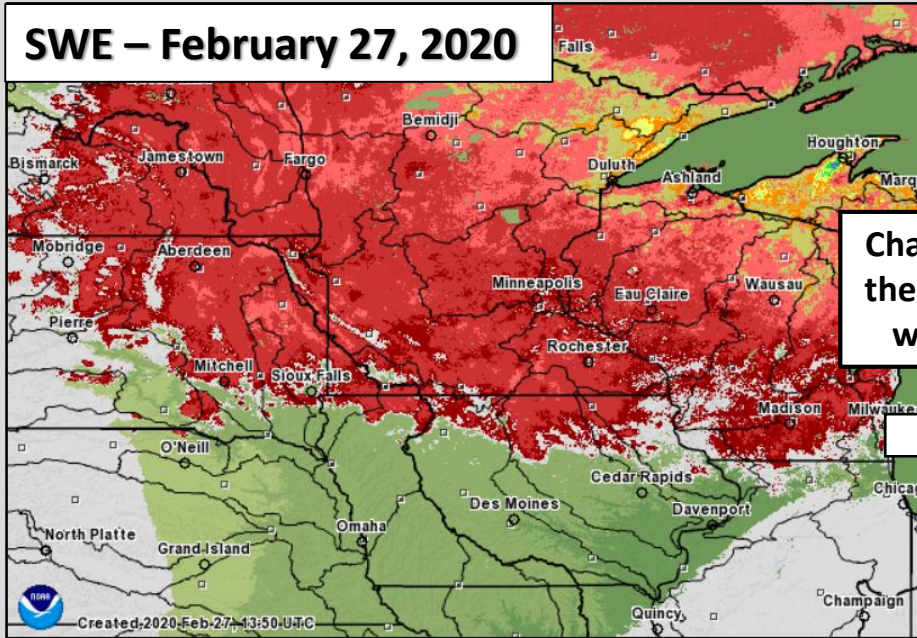


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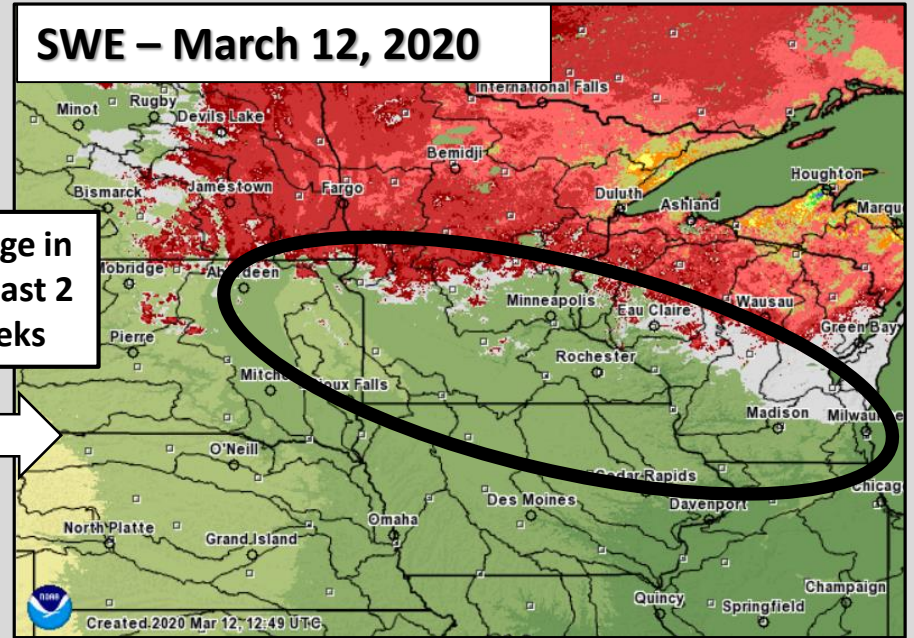


# Snow Water Equivalent (Liquid Water Content)

SWE – February 27, 2020



SWE – March 12, 2020

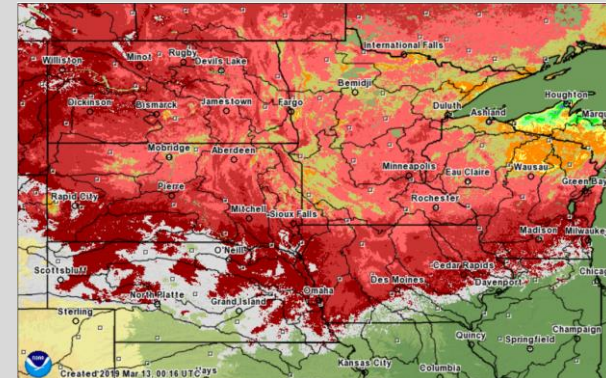
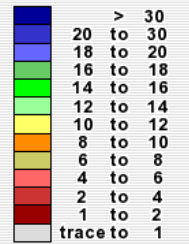


Change in  
the past 2  
weeks

Snowpack remains far northern parts of the watershed

- Change in past 2 weeks: Significant loss of SWE
- Rivers in the black circle are now observing responses from the snowmelt
- 2" to 6", localized up to 8" SWE remain in upper reaches of the watershed

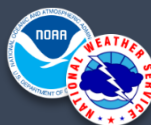
Inches of  
water  
equivalent



SWE – March 12, 2019



Images courtesy of NOHRSC (NWS)



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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

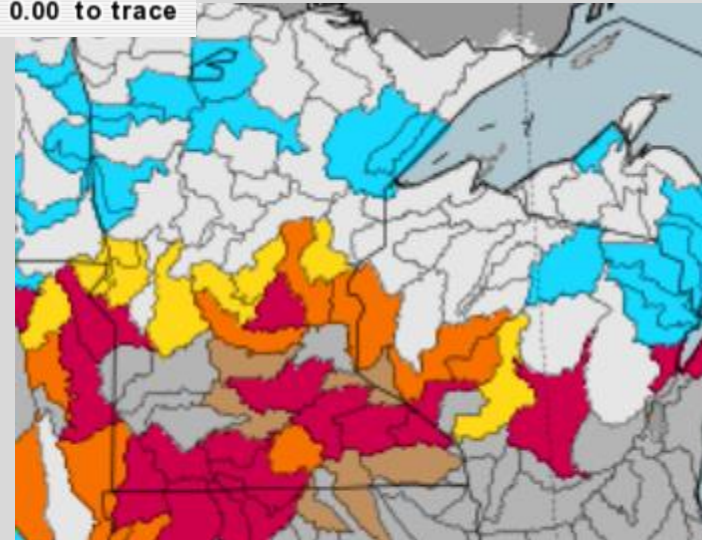
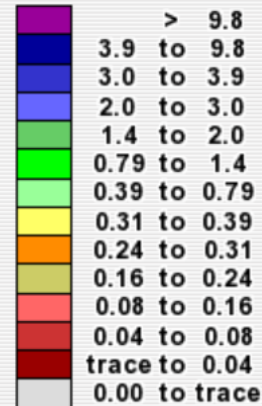


# Snow Water Equivalent

(Liquid Water Content) – Comparison to Historical Records

**3-Day Snowmelt (3/7-3/9)**

Inches of water equivalent



Liquid Water in the snowpack:

- Loss of significant SWE in the past 2 weeks
  - Widespread 1" to 3", up to 4" in some areas
- Remaining snowpack has near normal SWE for mid March

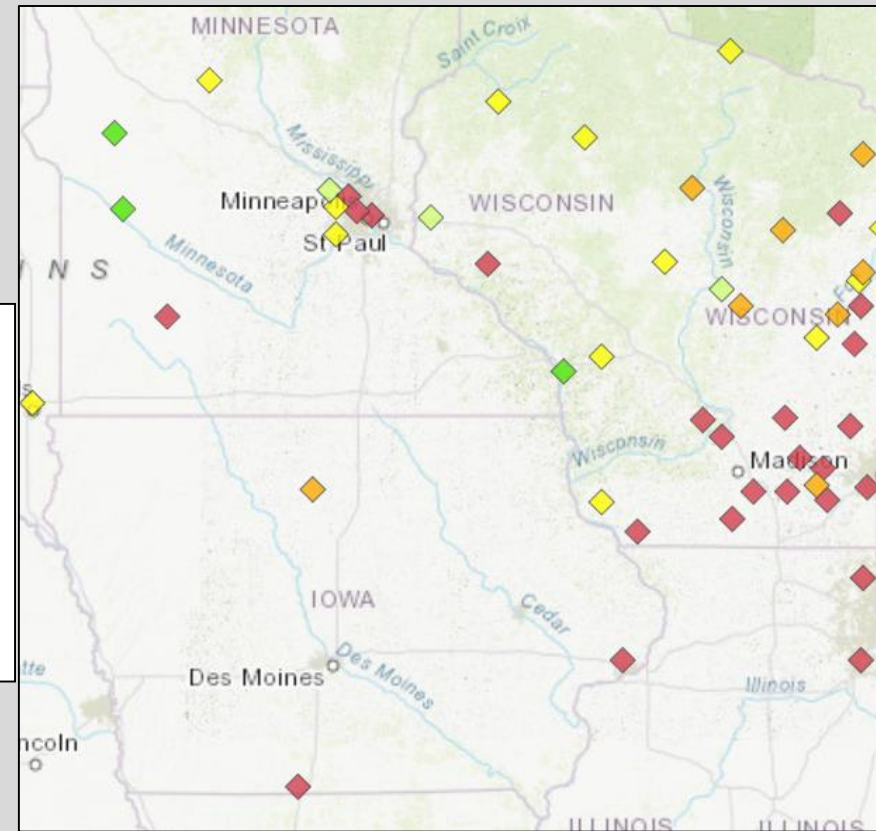
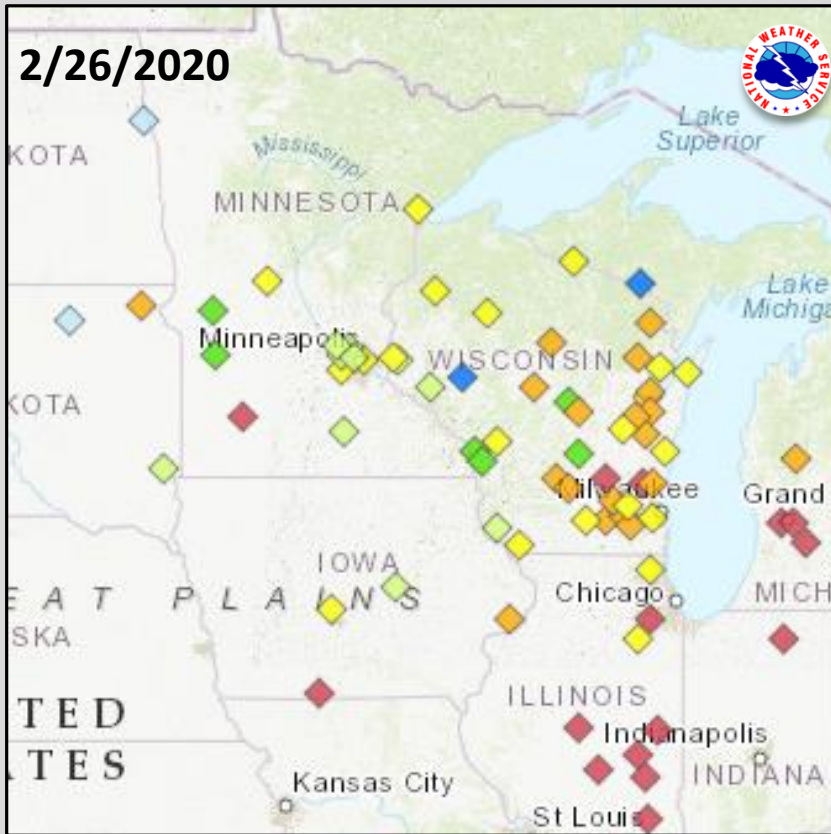
**SWE Percent of Normal – March 11**



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# Frozen Ground



- Ground continues to thaw
- Frozen ground will not have a high degree of impact on the flood risk this spring.

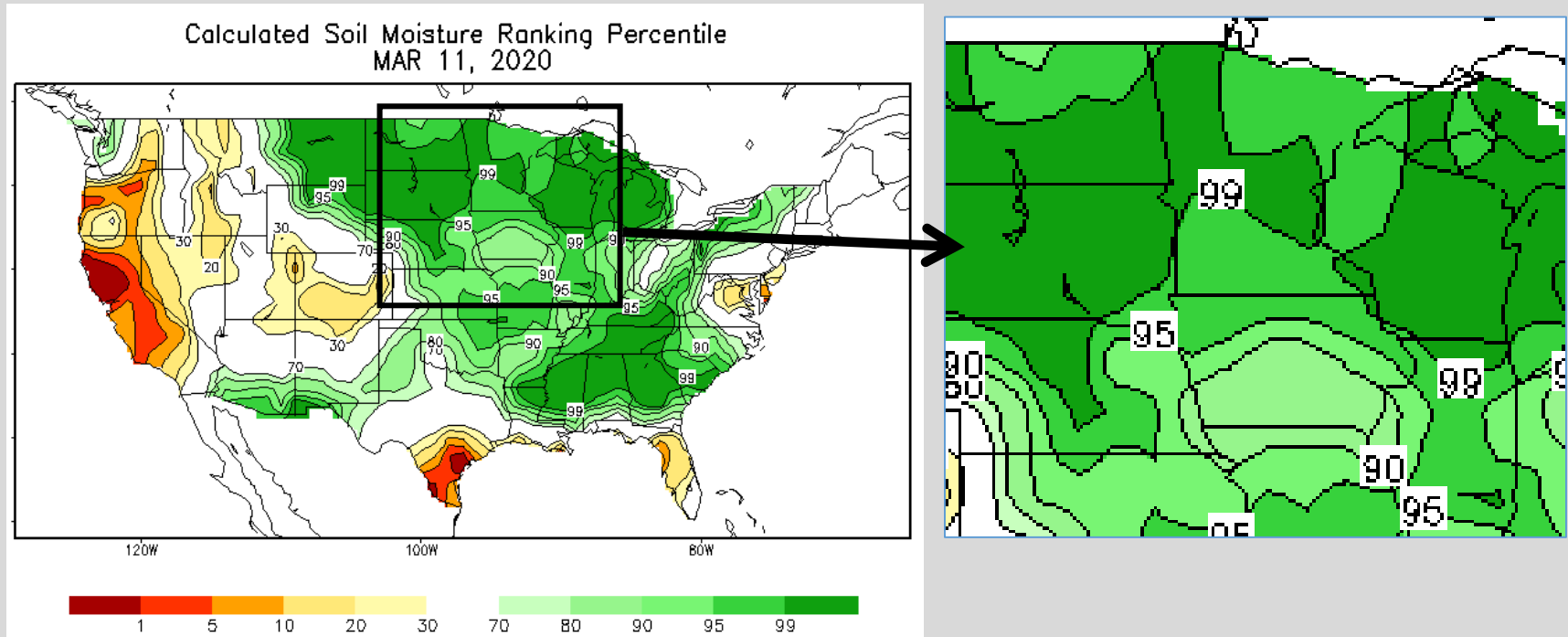
[https://www.weather.gov/ncrfc/LMI\\_FrostDepthMap](https://www.weather.gov/ncrfc/LMI_FrostDepthMap)

\* Can overlay current snow analysis from NOHRSC and precipitation forecast from WPC





# Soil Moisture



Images courtesy of the NWS Climate Prediction Center

- Areal extent of the extremely wet soils is very widespread
- Even the 'drier' areas (SE Iowa/N Missouri) still above 80<sup>th</sup> percentile.
- Primary contributor to above normal risk
- Flood risk will stay high until soils can dry out
- Minimal change in the past 2 weeks

Soil Moisture – February 2019

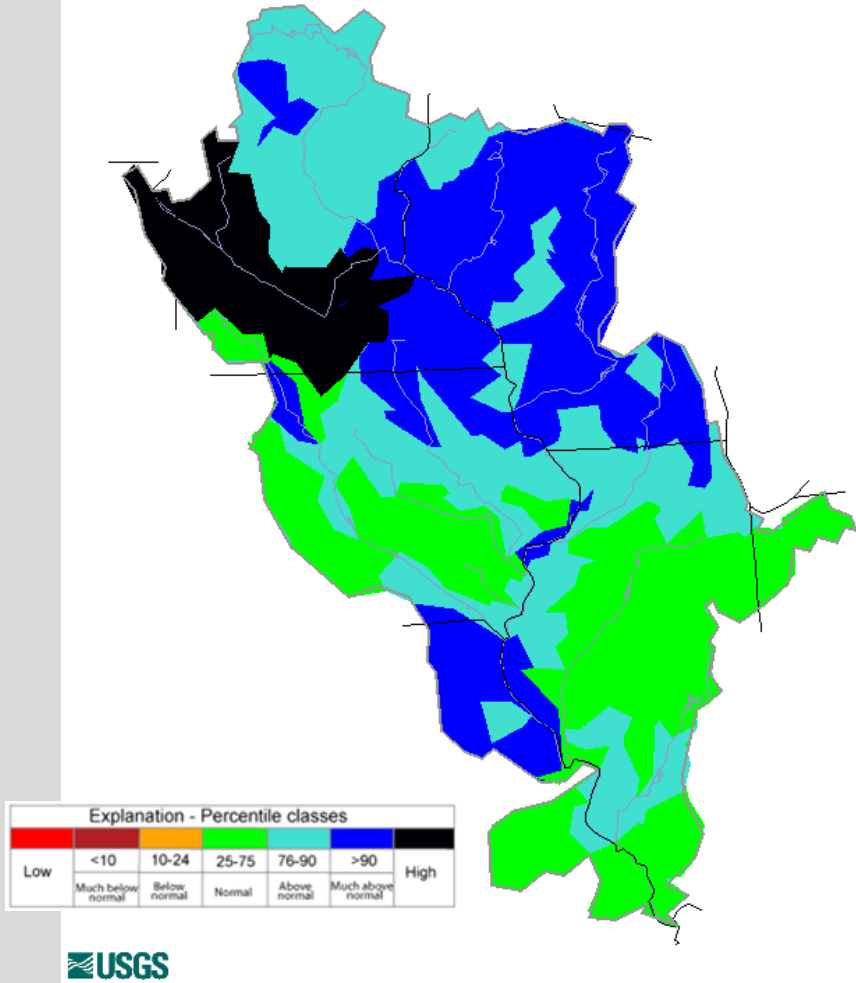
Images courtesy of NWS Climate Prediction Center



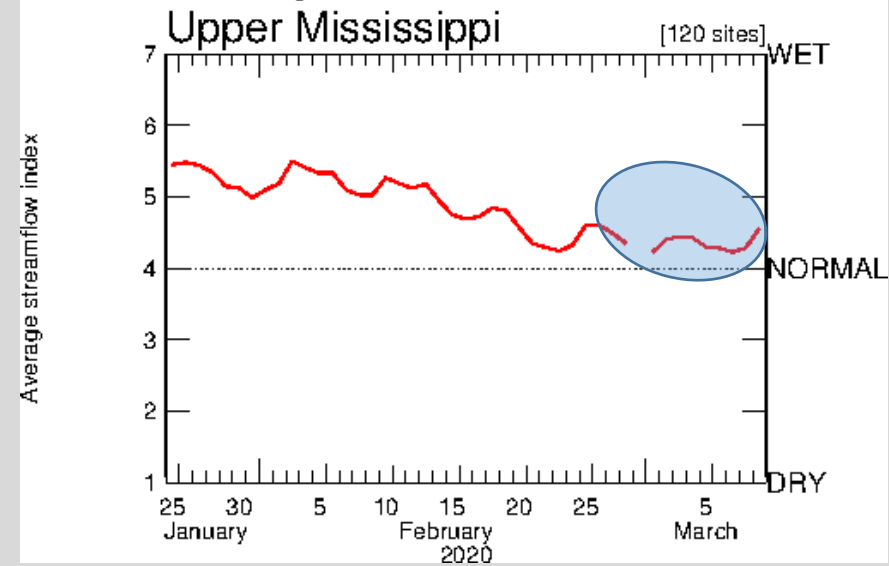
# Streamflows

- Rising streamflows due to runoff from widespread snowmelt and recent rainfall
- Above normal streamflows have persisted over the past few months.

Tuesday, March 10, 2020



Last 45 Days

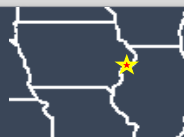
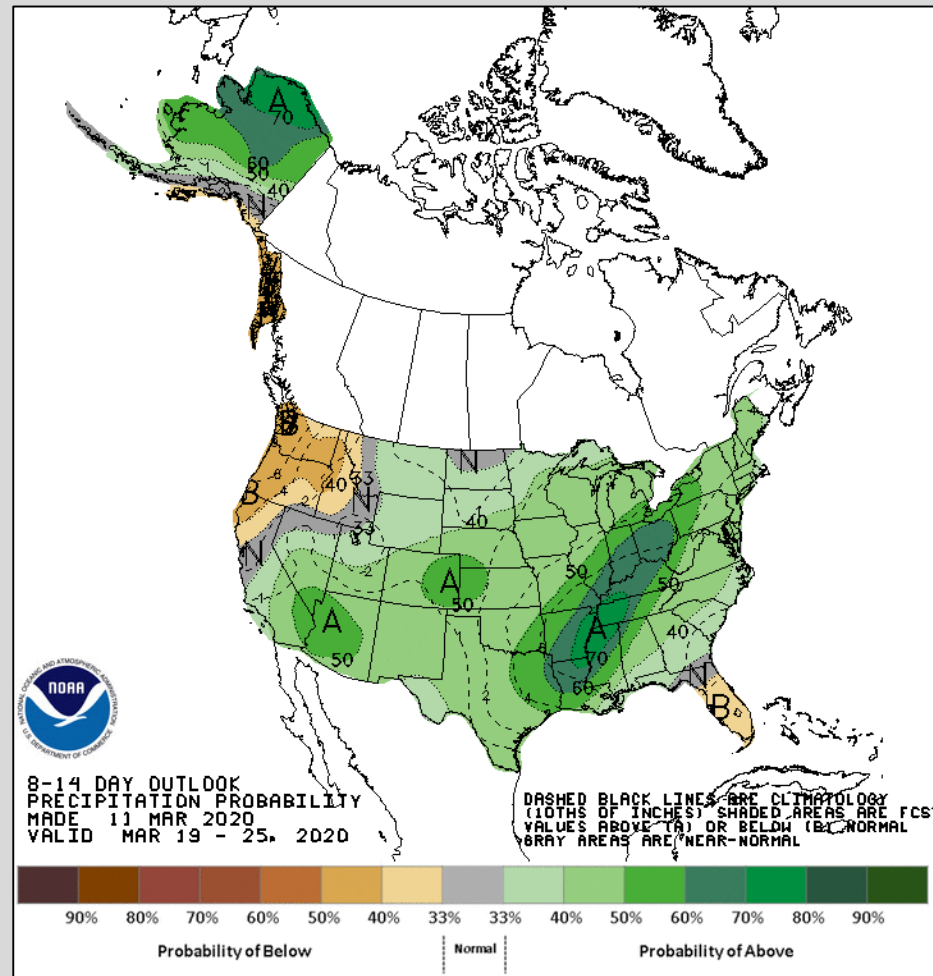
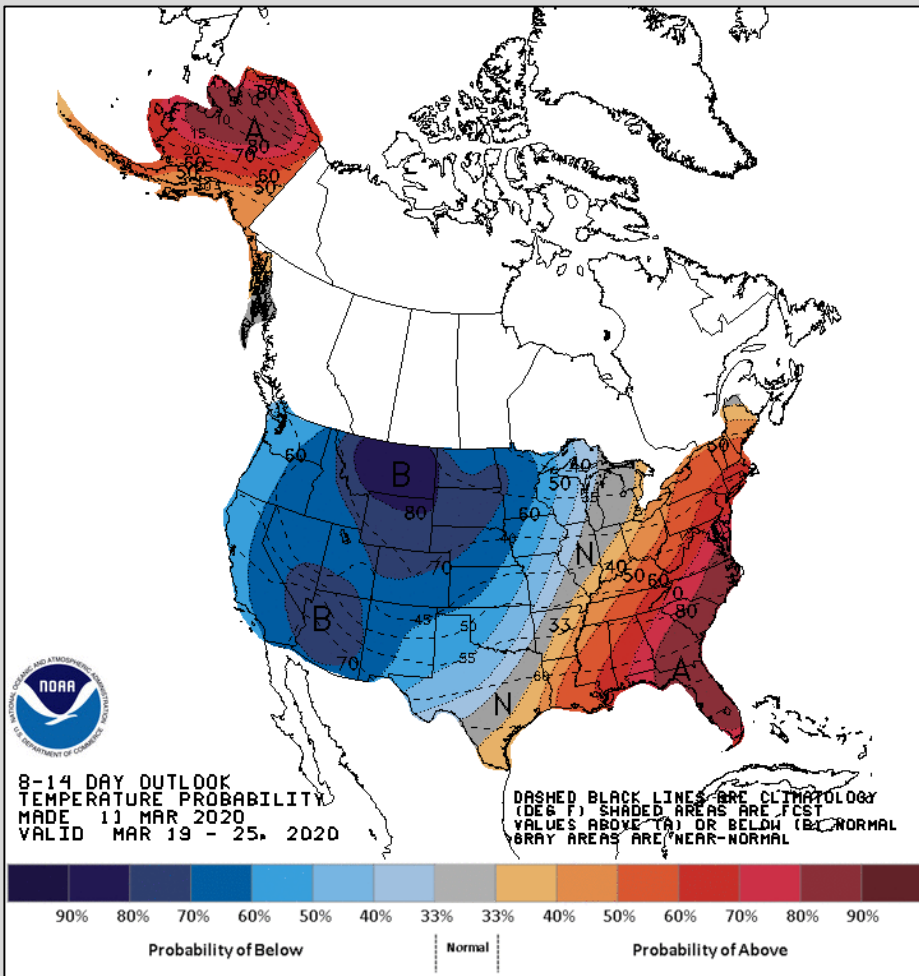


Images courtesy of US Geological Survey



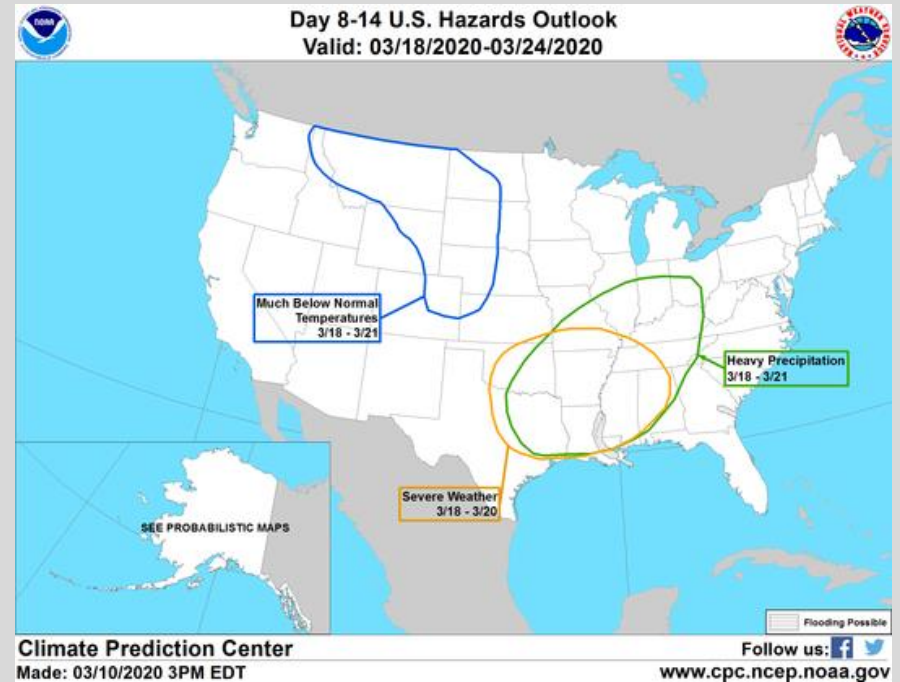
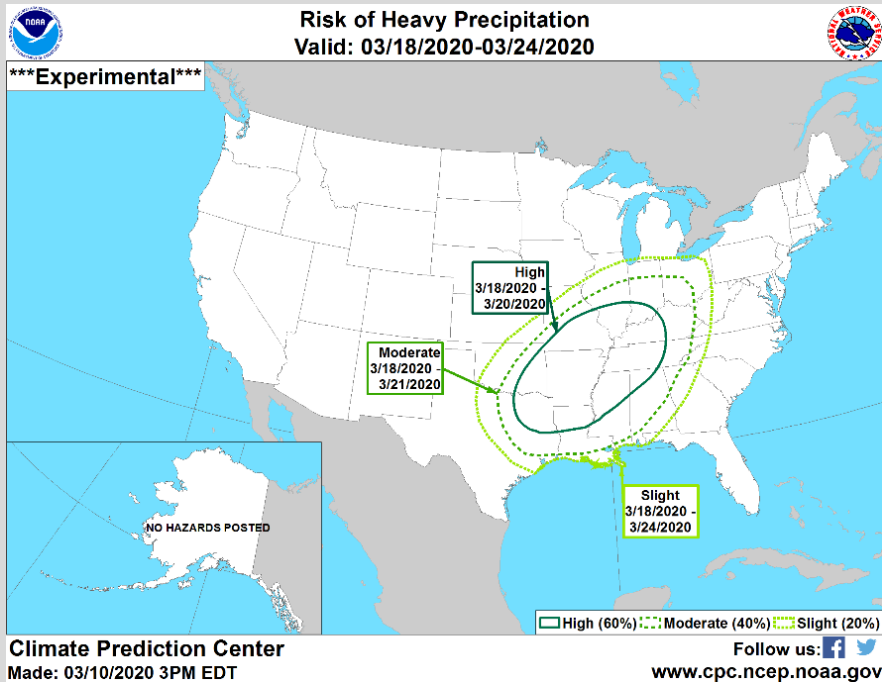
# Week 2 Weather Outlook

## March 19<sup>th</sup> – 25<sup>th</sup>



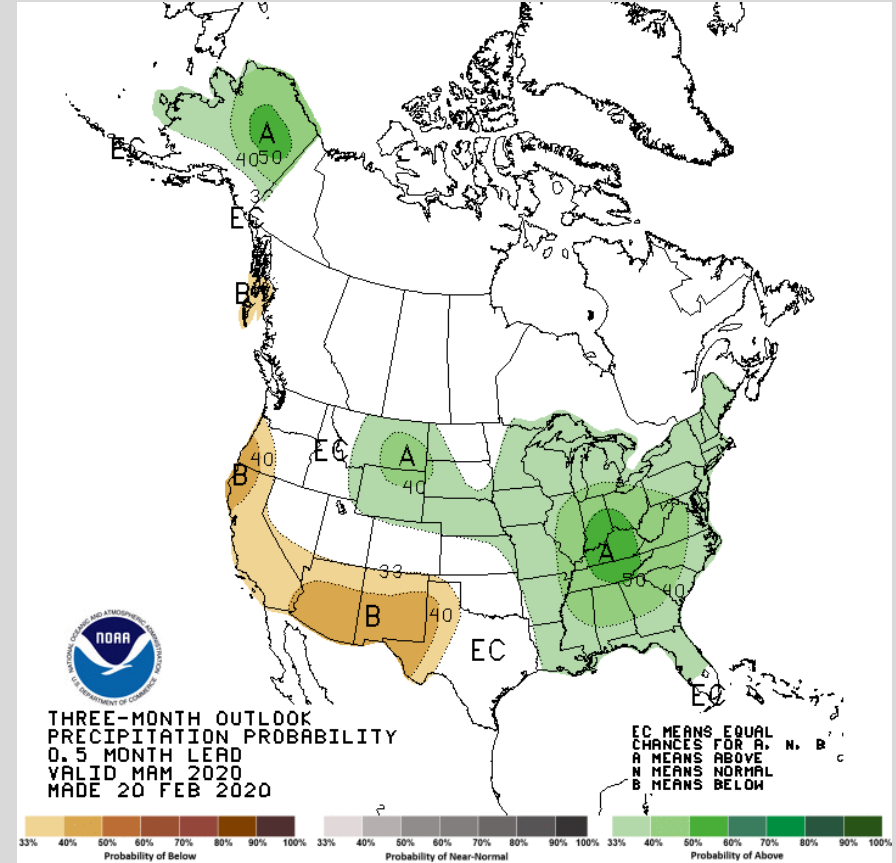
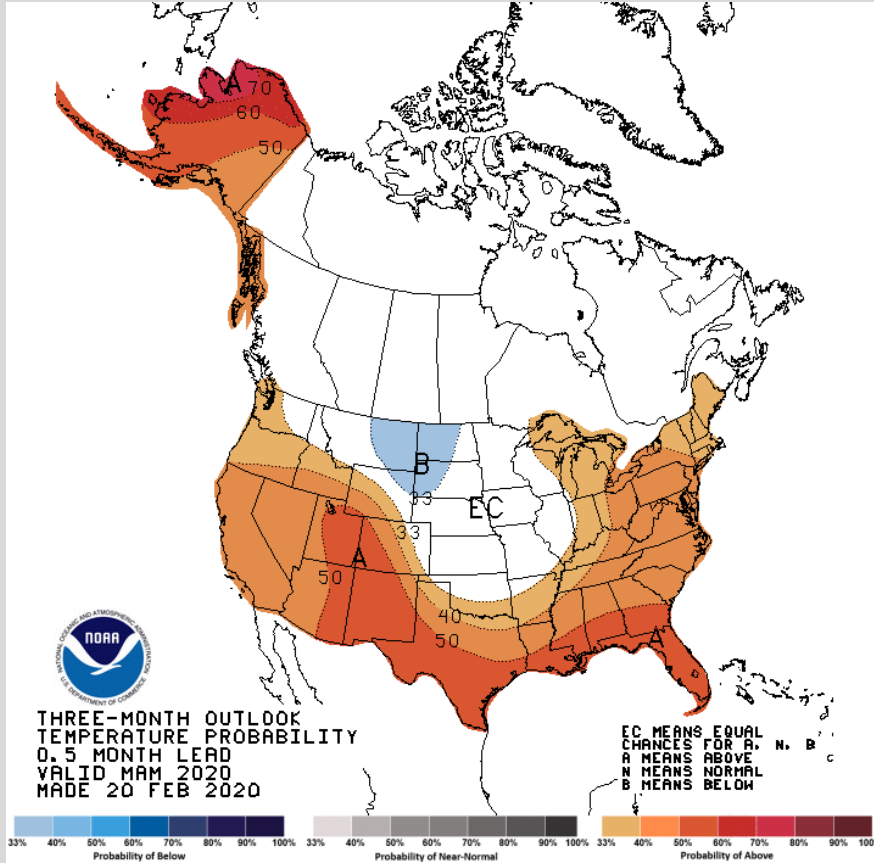
# Week 2 Hazards Outlook

## March 18<sup>th</sup> – 25<sup>th</sup>



# 3 Month Weather Outlooks

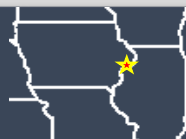
## March/April/May



NOAA Climate Prediction Center – [www.cpc.ncep.noaa.gov](http://www.cpc.ncep.noaa.gov)

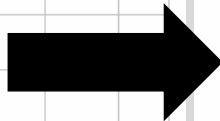
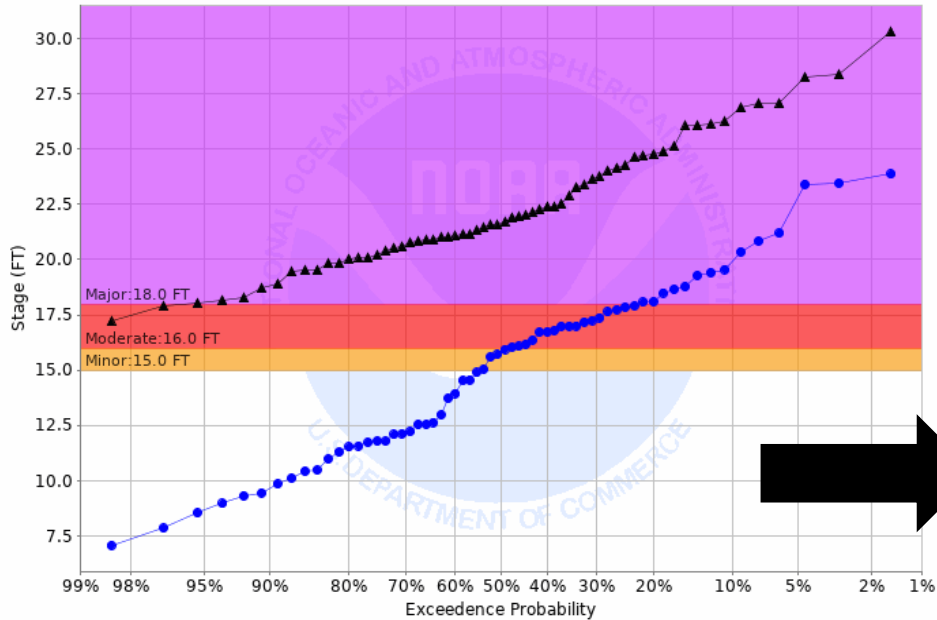


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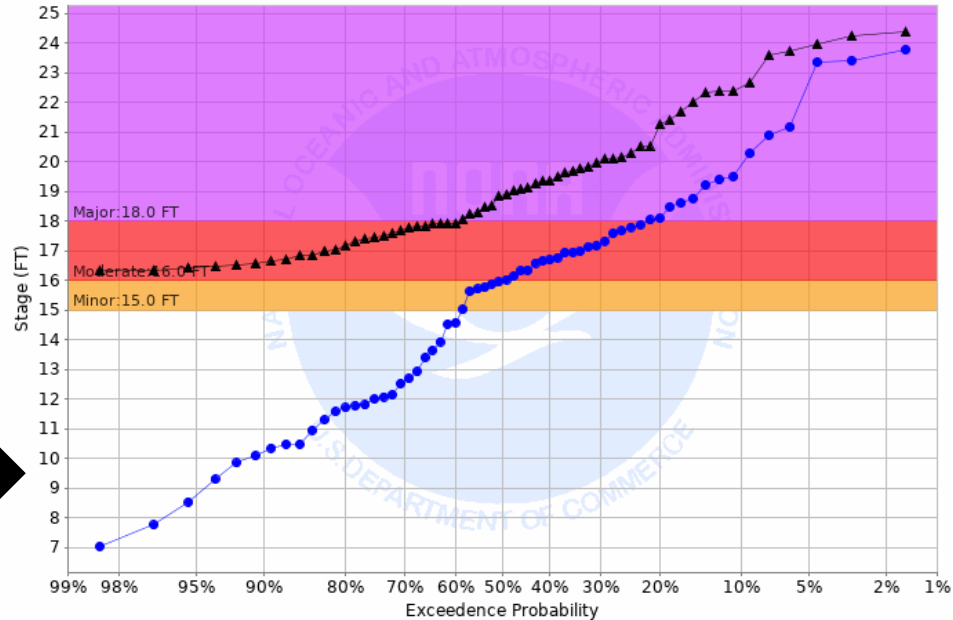


# What is the Flood Risk? Change in past 2 weeks?

Chance of Exceeding River Stage at Mississippi River at Rock Island L&D 15 (RCK12)  
Forecast for the period 02/17/2020 - 05/17/2020  
This is a conditional simulation based on the conditions as of 02/10/2020

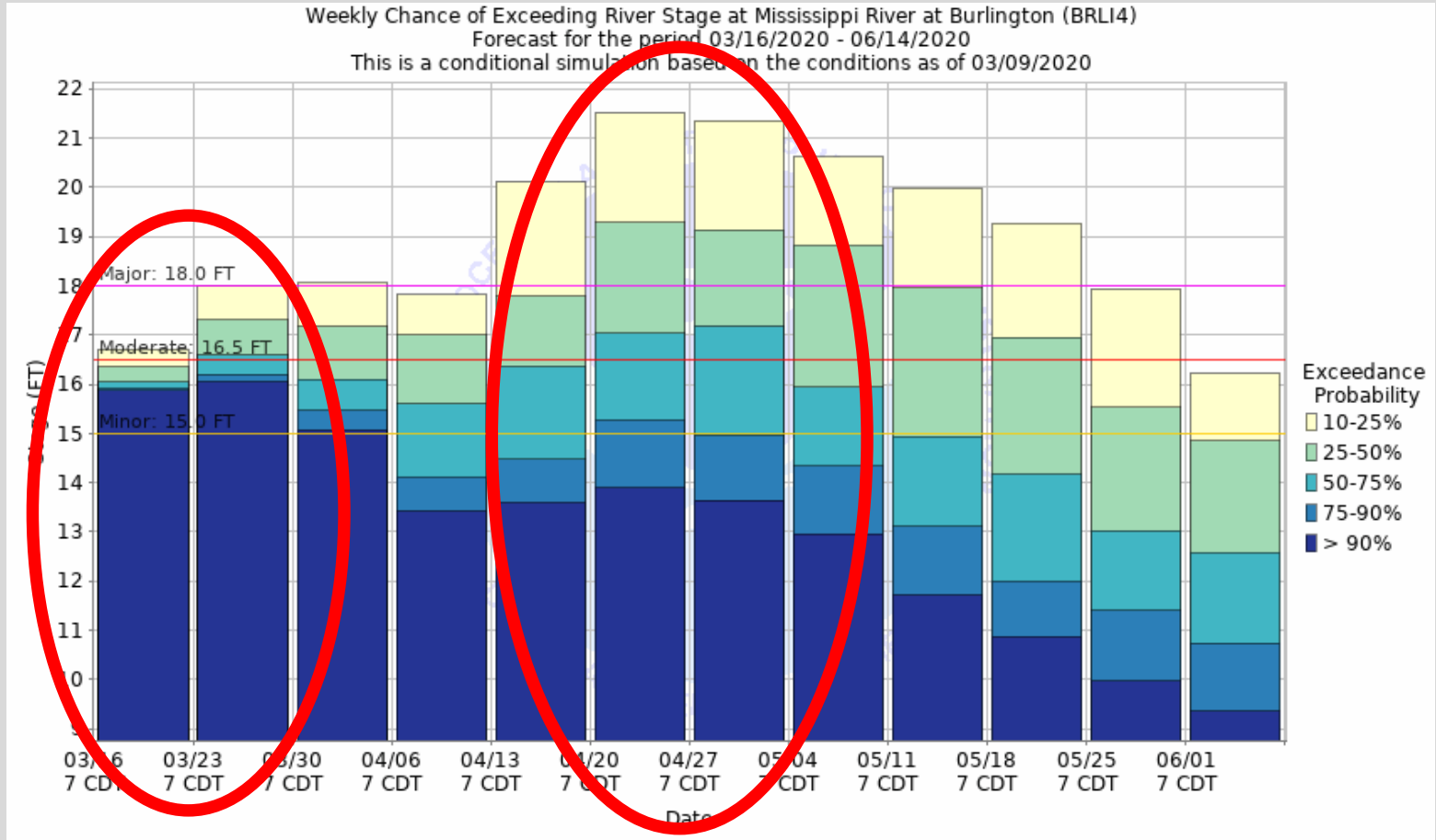


Chance of Exceeding River Stage at Mississippi River at Rock Island L&D 15 (RCK12)  
Forecast for the period 03/16/2020 - 06/14/2020  
This is a conditional simulation based on the conditions as of 03/09/2020



[https://water.weather.gov/ahps/region\\_long\\_range.php?rfc=ncrfc&percent=50](https://water.weather.gov/ahps/region_long_range.php?rfc=ncrfc&percent=50) ⇨ Mouse over gage of interest

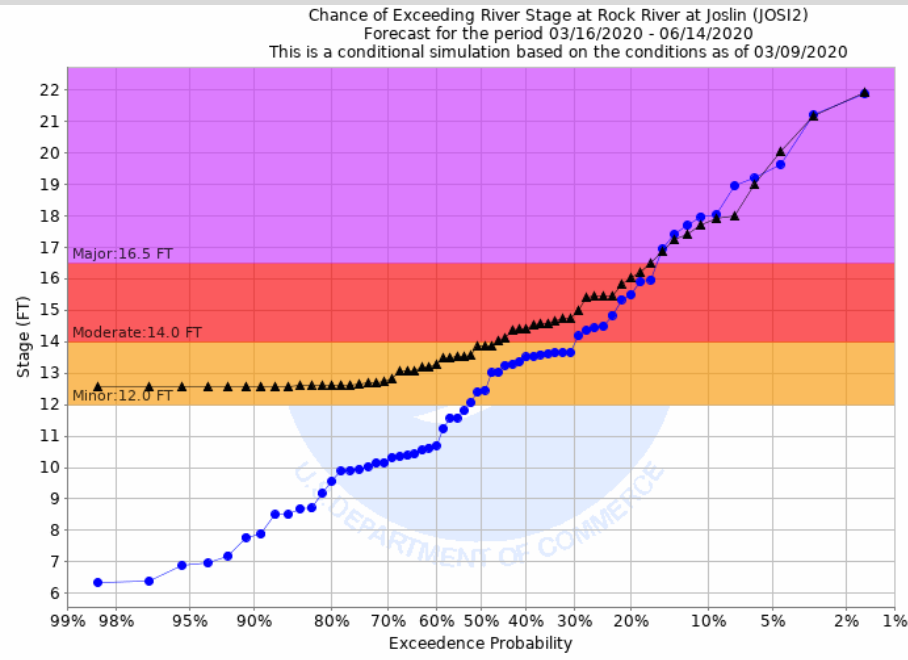
# What is the Flood Risk?



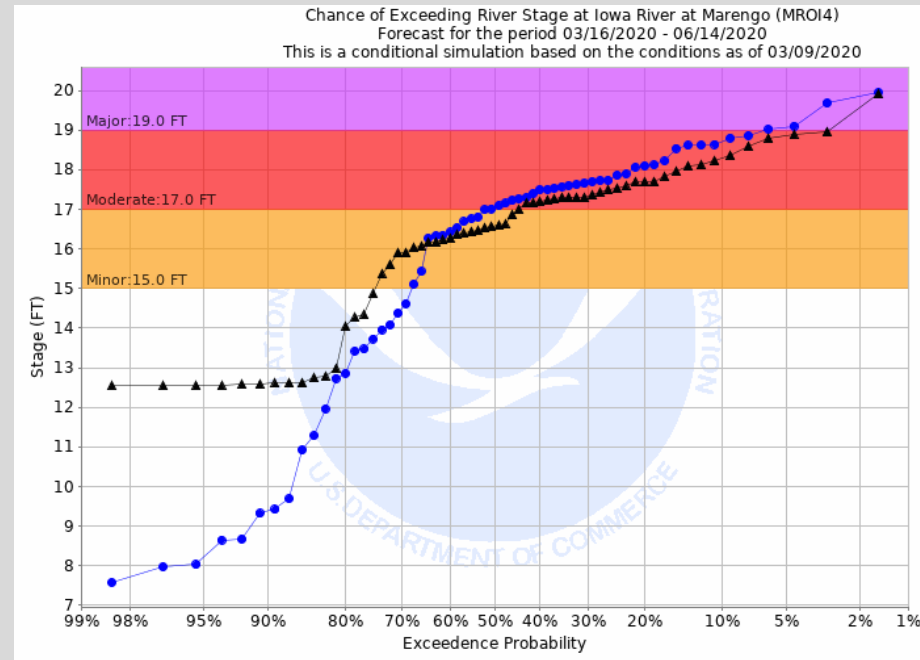
[https://water.weather.gov/ahps/region\\_long\\_range.php?rfc=ncrfc&percent=50](https://water.weather.gov/ahps/region_long_range.php?rfc=ncrfc&percent=50) ⇨ Mouse over gage of interest

# What is the Flood Risk?

## And how much outside of normal is it?



**Rock River at Joslin**



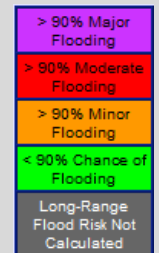
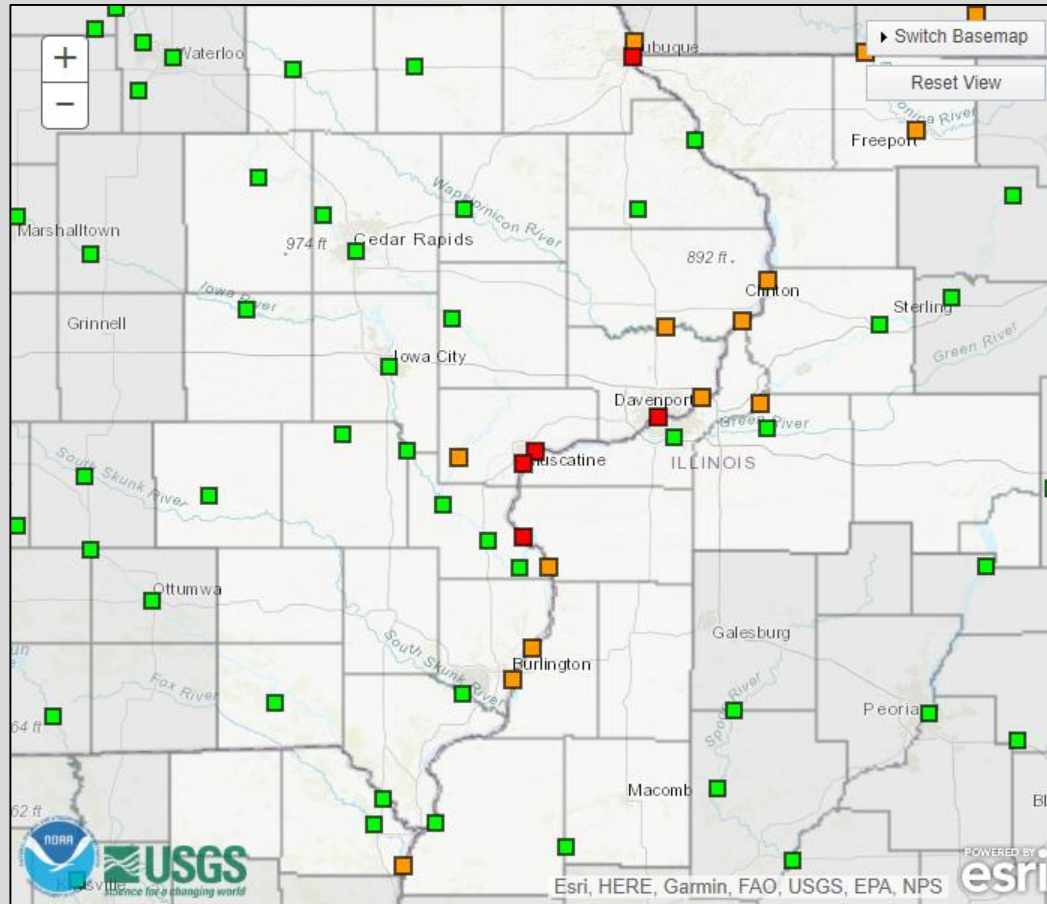
**Iowa River at Marengo**



# Long-Range River Outlooks

## Locations with high chances for flooding:

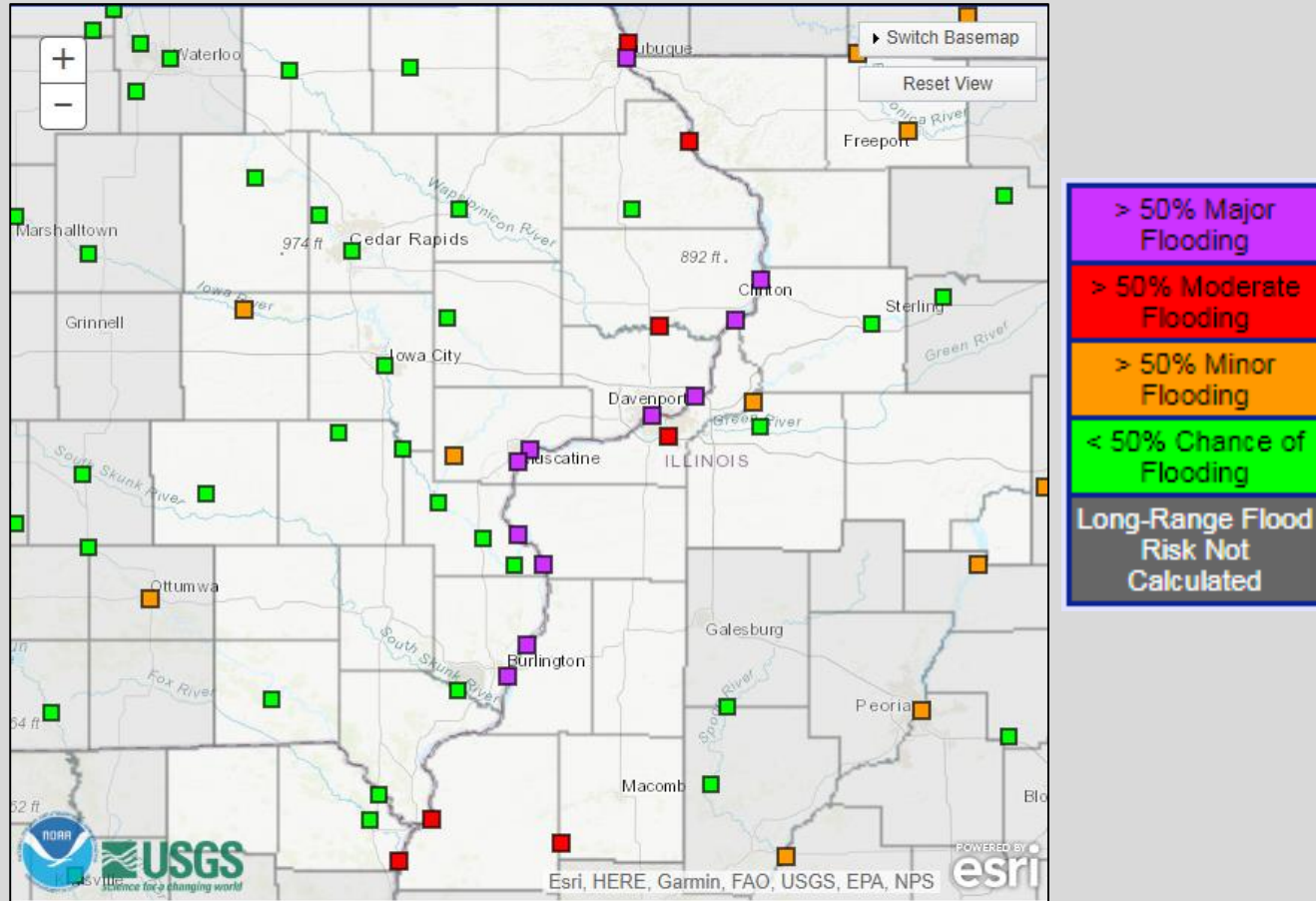
- Greater than 90% chance to reach the labeled flood stage



# Long-Range River Outlooks

Highlighted gages have at least a 50% chance to reach colored stage.

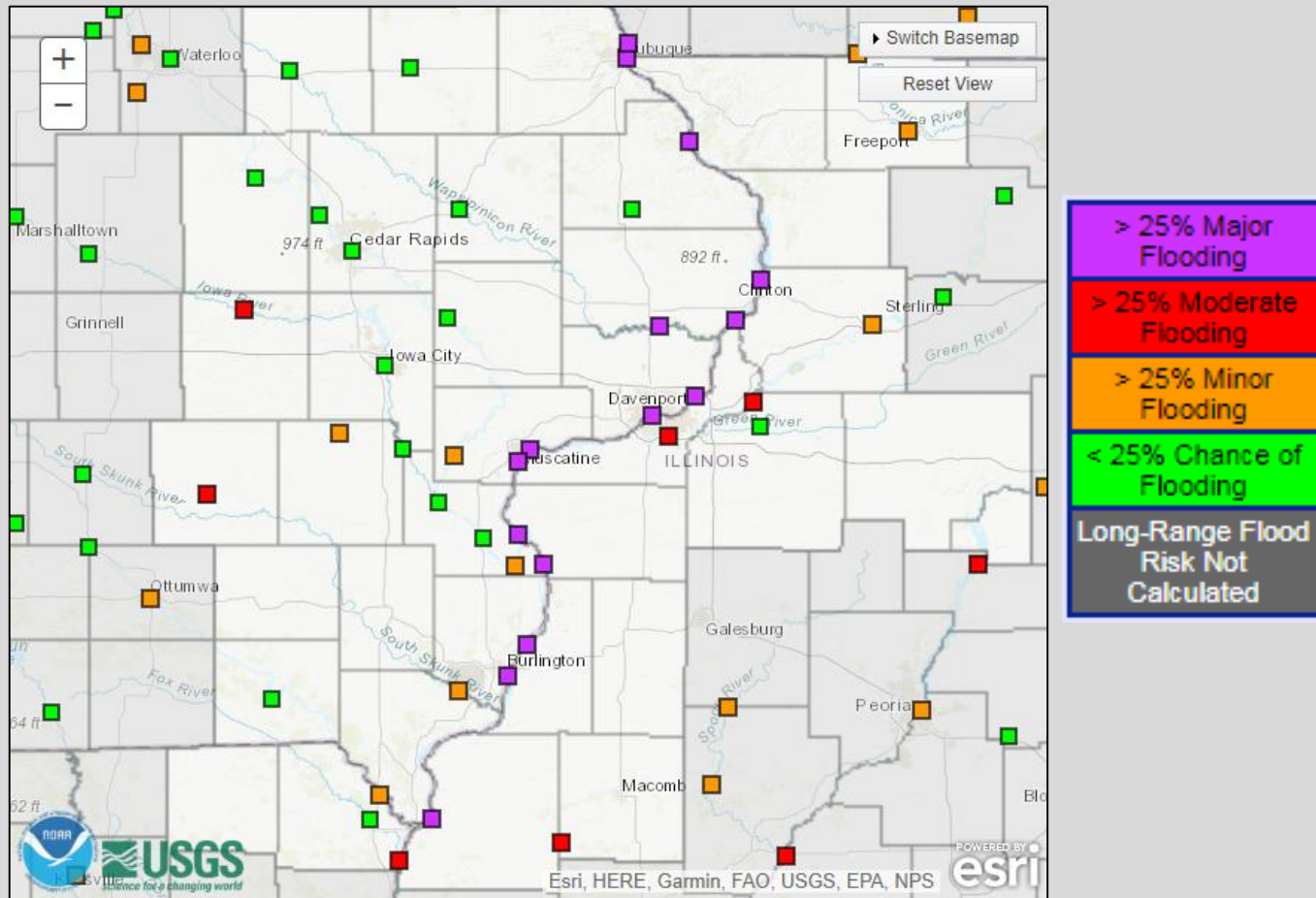
Number adjacent to the gage is the probability of reaching the colored stage level



# Long-Range River Outlooks

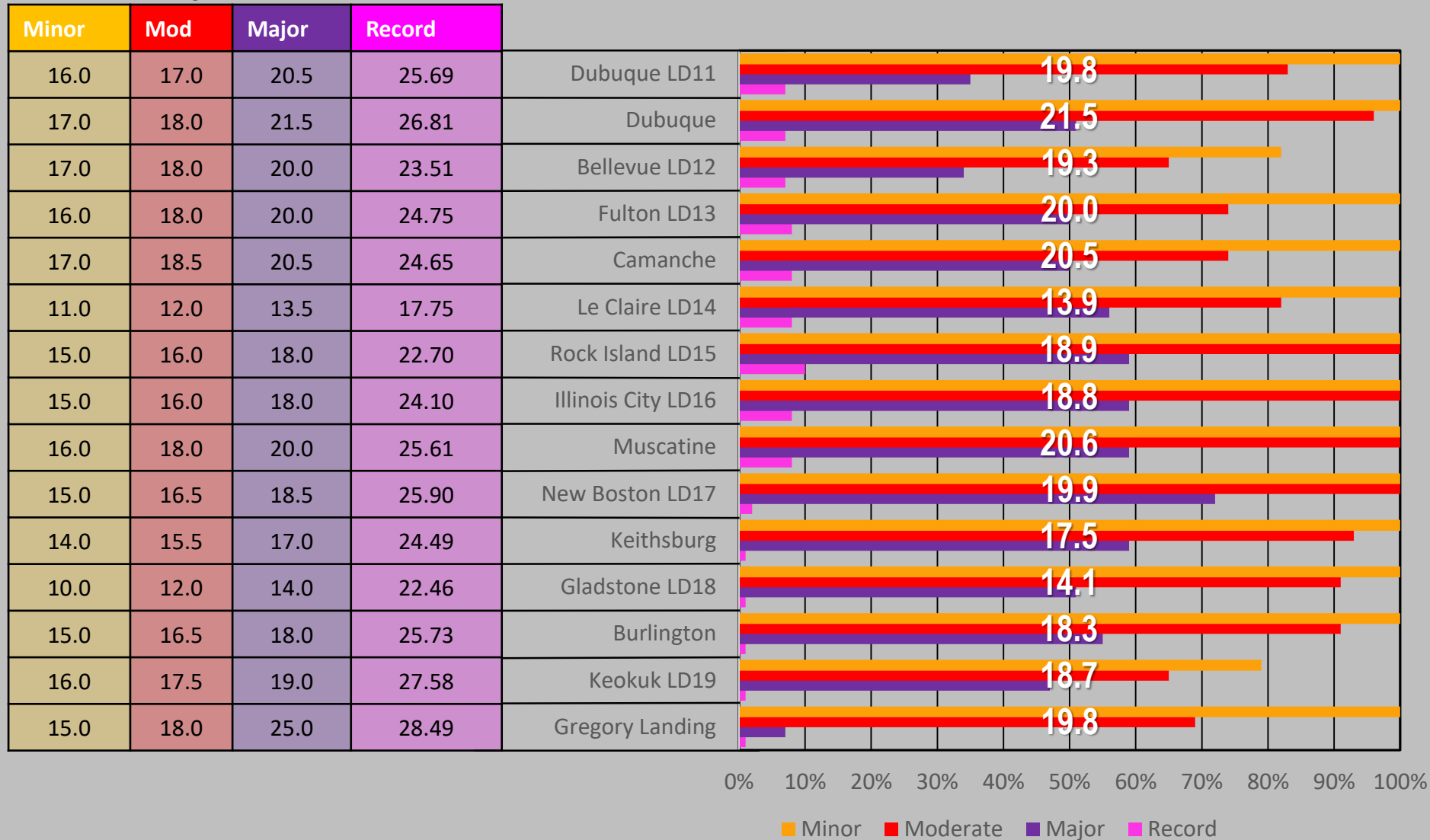
## Locations with chances for flooding:

- Around a 25% chance to reach the labeled flood stage → Lower Confidence (Probability)



# Long-Range River Outlooks

## Flood Stage & Record Levels



# 2020 Mississippi River Spring Snowmelt Timing

(Dubuque, IA → Gregory Landing, MO)

Rising river levels expected through March. Peak river levels remain highly uncertain. **Flooding from snowmelt runoff alone is not a certainty.**

Locations that do reach flood stage will likely see that happen between March 18 and March 25. Timing and peak heights is **highly** dependent on additional precipitation in the next several weeks.

## **When will the Mississippi River Crest? \***



**\* NOTE: Dry conditions through March would keep peak levels lower. In this case, some locations could crest at levels below flood stage. Stay tuned to official forecasts and flood products over the coming weeks.**



# Overview of Flood Risk Factors

Factors	Impact to Potential Spring Flooding	Change Since Last Outlook
River Levels	<b>Increased Threat</b>	Higher river levels in the past 2 weeks due to snowmelt and recent rains
Soil Moisture	<b>Increased Threat</b>	Unchanged
Snowpack/Liquid Equivalent	<b>Increased Threat – Mississippi *</b>	Extensive Melting – causing impending river rises
	<b>Decreased Threat – Local Rivers</b>	Unchanged – still no snowcover
Rate of Snowmelt	<b>Unknown</b>	N/A
Frost Depth	<b>Decreased Threat</b>	Slightly Improved – thawing ground
Spring Precipitation	<b>Near Normal</b>	N/A
Ice Jam Flooding	<b>Decreased Threat</b>	Improved – loss of river ice

\* Following the upcoming high water on the Mississippi River, the loss of snowpack will decrease the threat for more significant flooding

**Combination of factors**  Mississippi River: Well Above Normal Risk for Flooding  
Local Rivers: Near to Above Normal Risk for Flooding (Minor)



# Spring Flood Outlook

--Bottom Line--

## **Mississippi River – Well Above Normal Local Rivers – Near to Above Normal**

---

- **Flood risk remains well above normal for the Mississippi River and near to slightly above normal for local rivers**
- **Risk for major flooding on the Mississippi River has been reduced due to conditions that occurred over the past 2 weeks**
- **Rises through March on the Mississippi River from snowmelt runoff.**
- **Low confidence on the peak severity on eventual flooding**
- **Until soil moisture dries out, flood risk will remain above normal.**



# Spring Flood Outlook Dates

## Outlook Schedule

**Last Update: March 12, 2020**

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Information from this outlook can be found:  
From the North Central River Forecast Center

<https://www.weather.gov/ncrfc/>

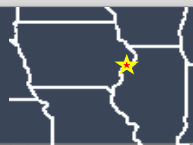
From the Quad Cities Weather Forecast Office:

Quad Cities - [weather.gov/dvn/2020\\_springfloodoutlook](https://www.weather.gov/dvn/2020_springfloodoutlook)

**Jessica Brooks**

NWS Quad Cities

[jessica.brooks@noaa.gov](mailto:jessica.brooks@noaa.gov)



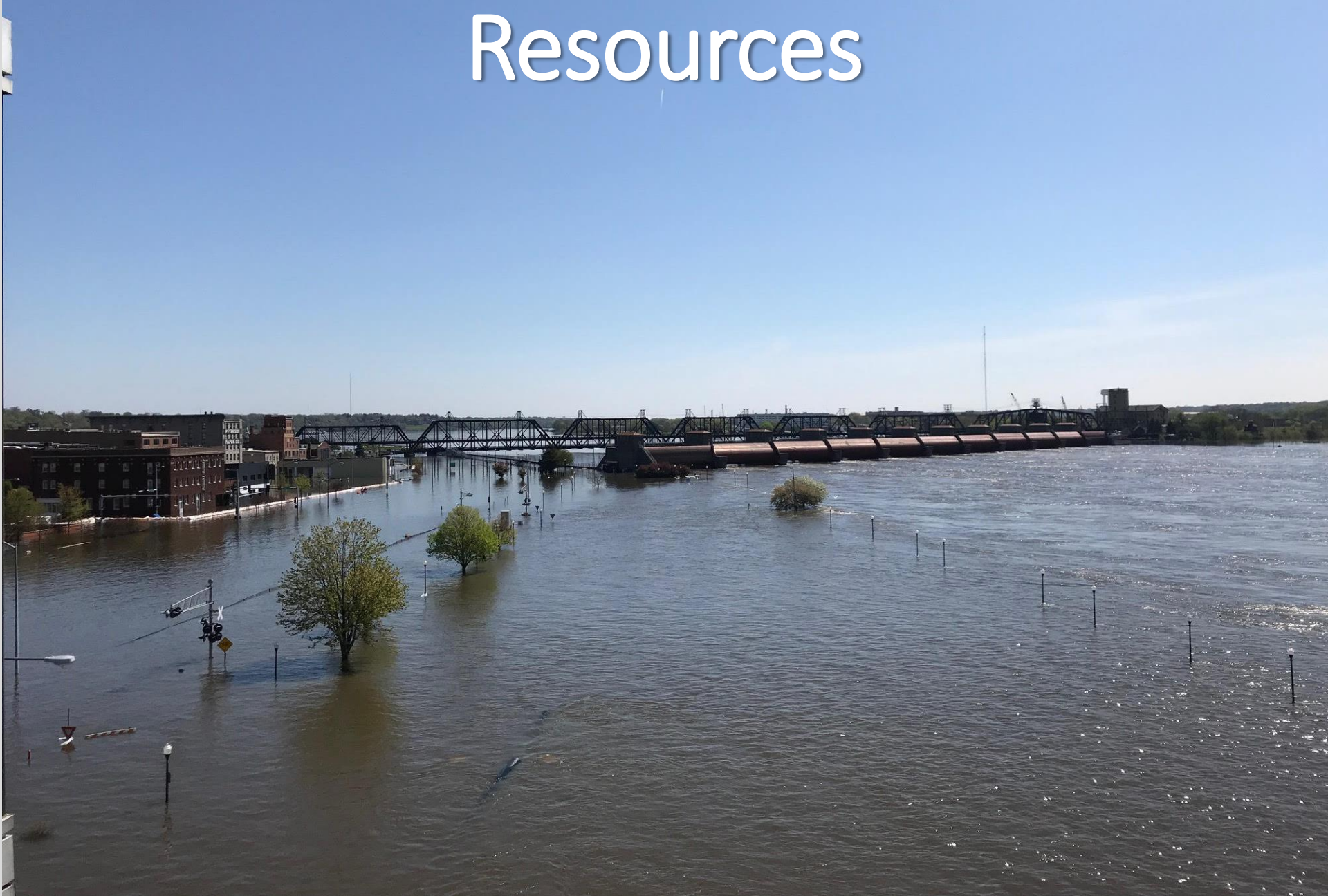


# Information Sources

- Midwest Regional Climate Center (MRCC) – <http://mrcc.isws.illinois.edu/>
- US Geological Survey (USGS) – <http://www.usgs.gov>
- National Operational Hydrologic Remote Sensing Center (NOHRSC) – [www.nohrsc.noaa.gov](http://www.nohrsc.noaa.gov)
- NOAA Climate Prediction Center – [www.cpc.ncep.noaa.gov](http://www.cpc.ncep.noaa.gov)
- NOAA Weather Prediction Center – [www.wpc.ncep.noaa.gov](http://www.wpc.ncep.noaa.gov)
- North Central River Forecast Center – [www.weather.gov/ncrfc](http://www.weather.gov/ncrfc)
- [https://www.weather.gov/ncrfc/LMI\\_ROF\\_NFP\\_SpringHydroOutlook](https://www.weather.gov/ncrfc/LMI_ROF_NFP_SpringHydroOutlook)
- Advanced Hydrological Prediction Service (AHPS) – [water.weather.gov/ahps](http://water.weather.gov/ahps)
- US Drought Monitor – [droughtmonitor.unl.edu](http://droughtmonitor.unl.edu)
- NWS Quad Cities - [https://www.weather.gov/dvn/2020\\_springfloodoutlook](https://www.weather.gov/dvn/2020_springfloodoutlook)

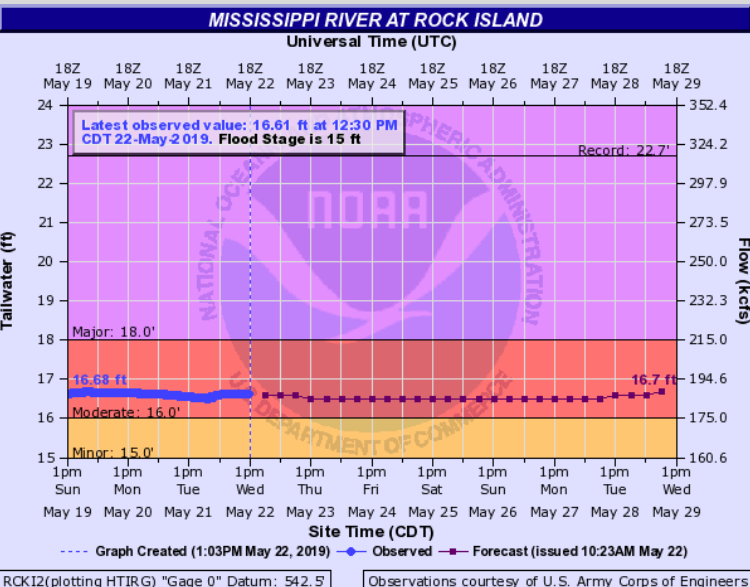


# Resources



# NWS AHPS Webpage

weather.gov/dvn → Rivers and Lakes tab



Upstream Gauge      Downstream Gauge

Flood Categories (in feet)  
 Major Flood Stage: 18  
 Moderate Flood Stage: 16  
 Flood Stage: 15  
 Action Stage: 13

Historic Crests  
 (1) 22.63 ft on 07/09/1993  
 (2) 22.48 ft on 04/28/1965  
 (3) 22.33 ft on 04/25/2001  
 (4) 22.00 ft on 03/10/1868  
 (5) 21.49 ft on 06/16/2008  
 (6) 20.94 ft on 07/04/2014 (P)  
 (7) 20.71 ft on 04/22/2011  
 (8) 19.66 ft on 04/20/1997  
 (9) 19.40 ft on 06/27/1892  
 (10) 19.30 ft on 04/26/1969  
 Show More Historic Crests

(P): Preliminary values subject to further review.

Recent Crests  
 (1) 20.94 ft on 07/04/2014 (P)  
 (2) 16.94 ft on 06/24/2014 (P)  
 (3) 18.01 ft on 07/01/2013 (P)  
 (4) 15.95 ft on 06/14/2013 (P)  
 (5) 19.12 ft on 04/21/2013 (P)  
 (6) 15.24 ft on 07/30/2011  
 (7) 20.71 ft on 04/22/2011  
 (8) 21.49 ft on 06/16/2008  
 (9) 19.24 ft on 04/29/2008  
 (10) 17.08 ft on 06/22/2004  
 Show More Recent Crests

(P): Preliminary values subject to further review.

Low Water Records  
 Currently none available.

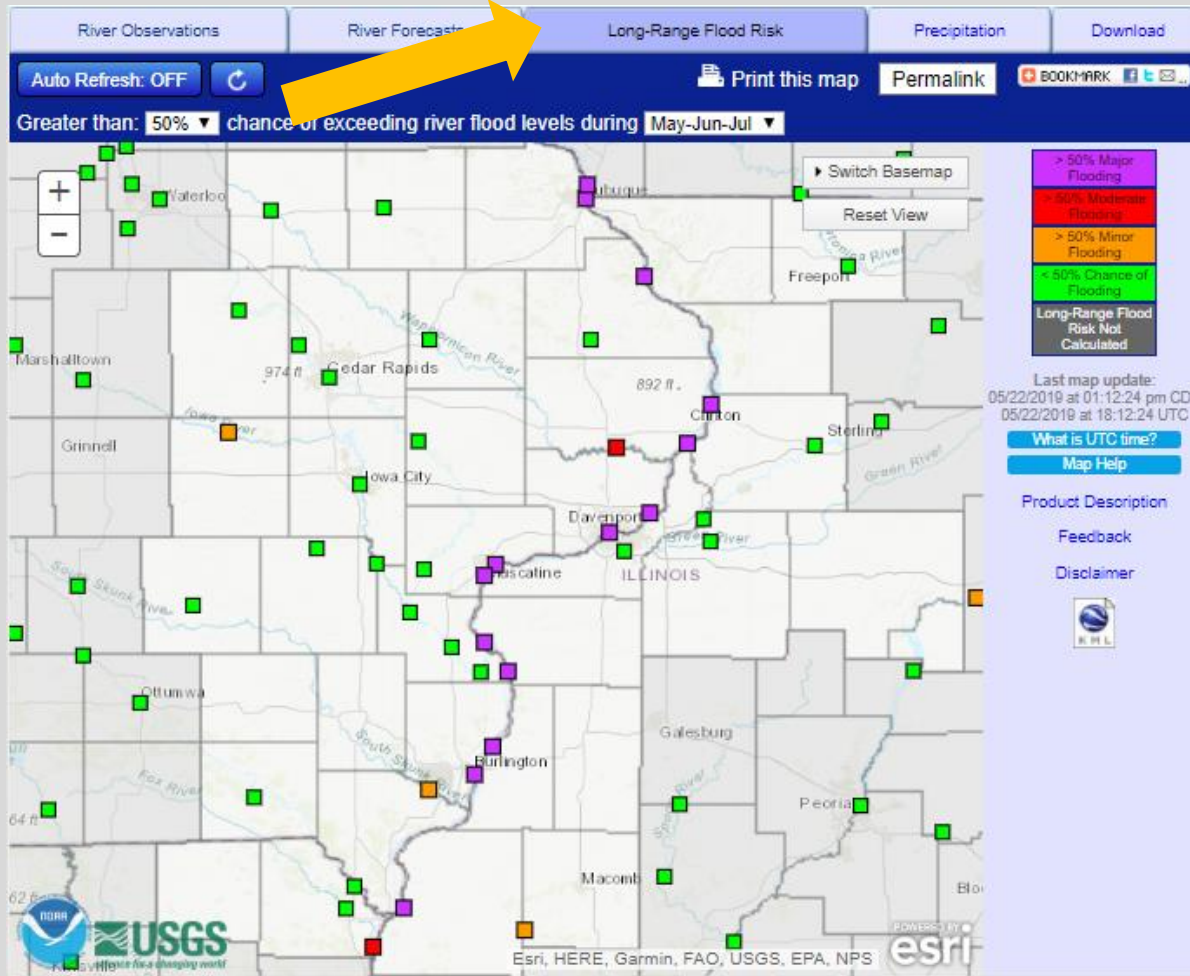
Latitude/Longitude Disclaimer: The gauge location shown in the above map is the approximate location based on the latitude/longitude coordinates provided to the NWS by the gauge owner.

- Flood Impacts & Photos
- If you notice any errors in the below information, please contact our Webmaster
- 29 Water reaches the top of the flood walls and levees in Bettendorf, Rock Island, and East Moline.
  - 27.5 Water affects Moline's water treatment plant.
  - 27 Water reaches the bottom of the Arsenal Bridge deck.
  - 26 Water reaches the top of the lowest section of the flood wall at Leach Park in Bettendorf.
  - 25.7 Water affects many residences and businesses in the vicinity of State Street and 8th Street in Bettendorf.
  - 25 Water reaches the top of the lowest section of Rock Island's flood wall in the District.
  - 24 Water affects the main concourse of the River's Edge Center. In Riverdale, water is at floor level in the ALCOA plant.
  - 23.6 Water affects ramps at the bus station in Davenport.
  - 23.5 Water affects Davenport's Water Pollution Control Plant.

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



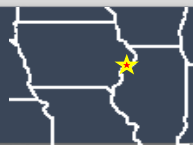
# Extended Outlooks 50% or Greater Chance



<https://water.weather.gov/ahps2/index.php?wfo=dvn>

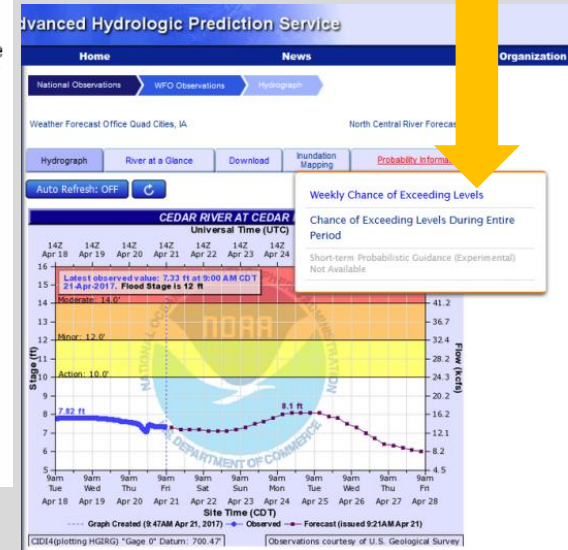
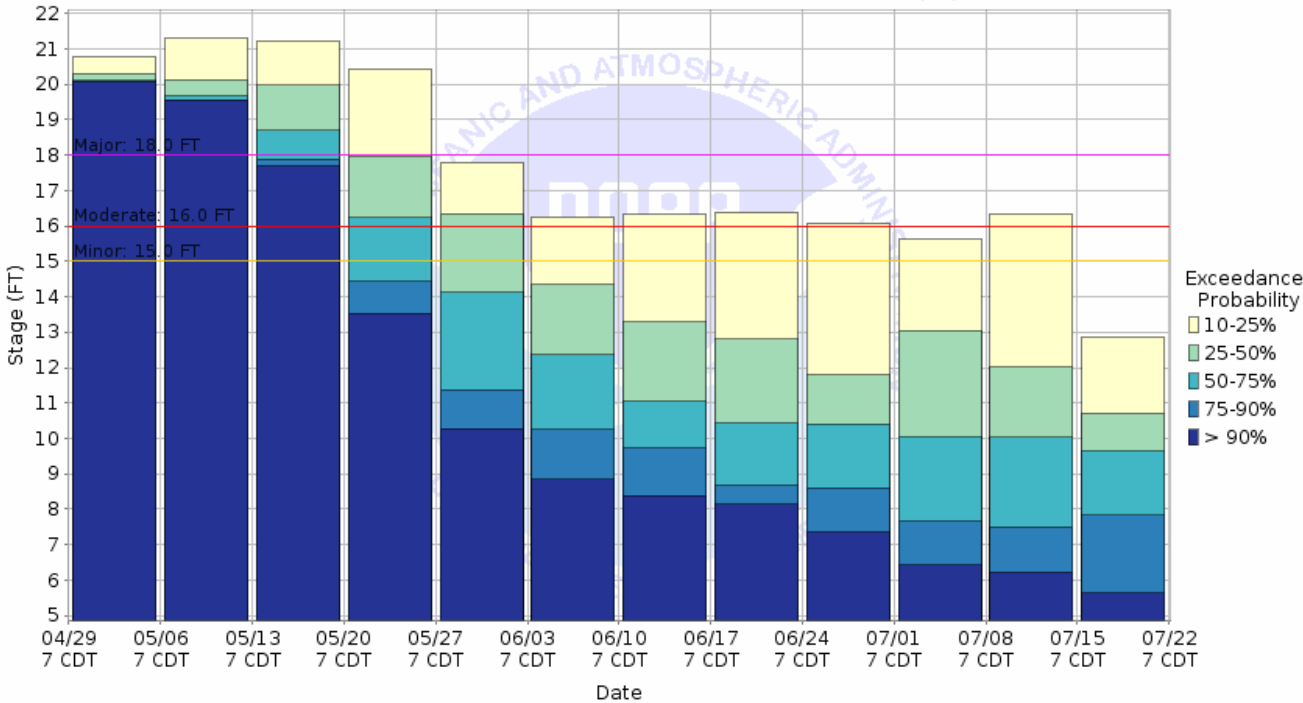


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# Long Range Outlooks AHPS

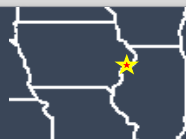
Weekly Chance of Exceeding River Stage at Mississippi River at Rock Island L&D 15 (RCKI2)  
Forecast for the period 04/29/2019 - 07/28/2019  
This is a conditional simulation based on the conditions as of 04/22/2019



[https://water.weather.gov/ahps2/long\\_range.php?wfo=DVN](https://water.weather.gov/ahps2/long_range.php?wfo=DVN)

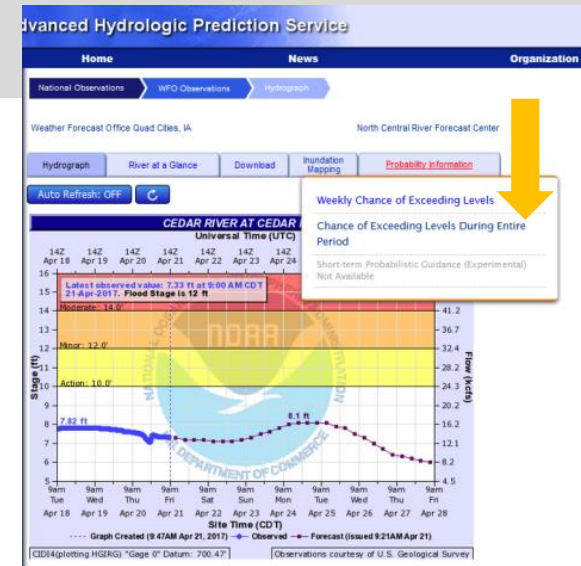
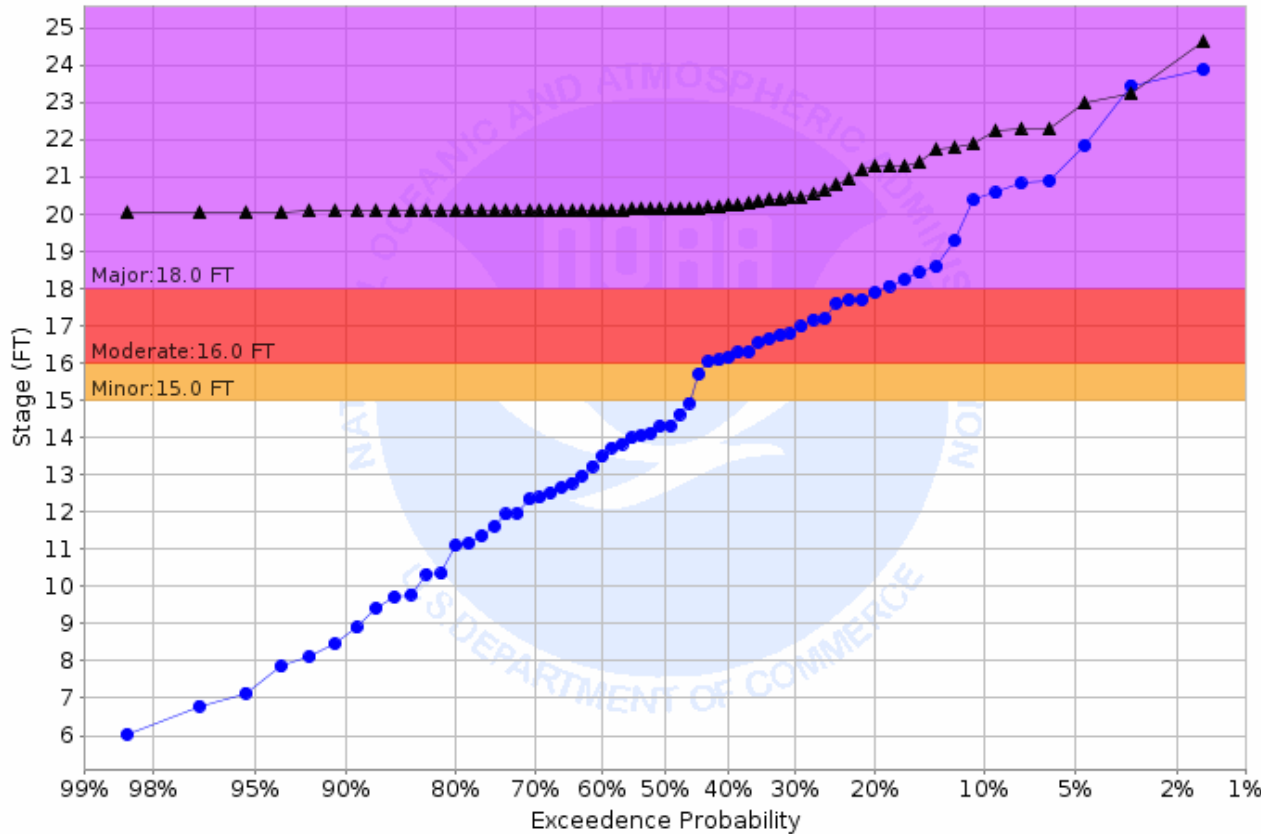


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# Long Range Outlooks

Chance of Exceeding River Stage at Mississippi River at Rock Island L&D 15 (RCK12)  
 Forecast for the period 04/29/2019 - 07/28/2019  
 This is a conditional simulation based on the conditions as of 04/22/2019



- ▲ Conditional Simulation
- Historical Simulation

[https://water.weather.gov/ahps2/long\\_range.php?wfo=DVN](https://water.weather.gov/ahps2/long_range.php?wfo=DVN)



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# Area Forecast Discussion

**When there is active flooding or a concern for flooding to develop, the NWS Quad Cities will provide a technical discussion about forecast in our Area Forecast Discussion.**

**This discussion is updated frequently through the day and contains the thoughts of our forecasters on the weather and hydrological concerns.**

.HYDROLOGY...

Issued at 121 PM CDT Fri May 24 2019

Heavy rain fell over the last 24 hours across the region, with the heaviest amounts of an inch or more north of a line from Sigourney, IA through Freeport, IL. There was a narrower strip of amounts up to 3.50 inches from about Dysart, IA through Potosi, WI. With this rain and expected rains still through 12Z Saturday morning most river forecasts this morning saw rises, some quite significant rises.

This continues to be a concerning situation with more rain in the forecast every day. With the ground conditions saturated, and accounting for little vegetation to pull any water out as the majority of farm fields are either not yet planted, or have very new plants emerging runoff amounts will be high with quicker responses in the rivers likely than would normally occur.

Numerous flood warnings were issued this morning for tributary rivers. Many of these forecasts to show crests over the weekend, with falling levels next week. We would express caution with these forecasts as more rain is expected through the weekend and into next week which will likely either raise the crest forecasts or prolong the time the rivers remain high.

On the Mississippi, significant rises were sent out in this morning's forecasts. NOTE: these crest forecasts will likely change and rise further as more of the forecast rain gets utilized in the forecasts in the coming days.

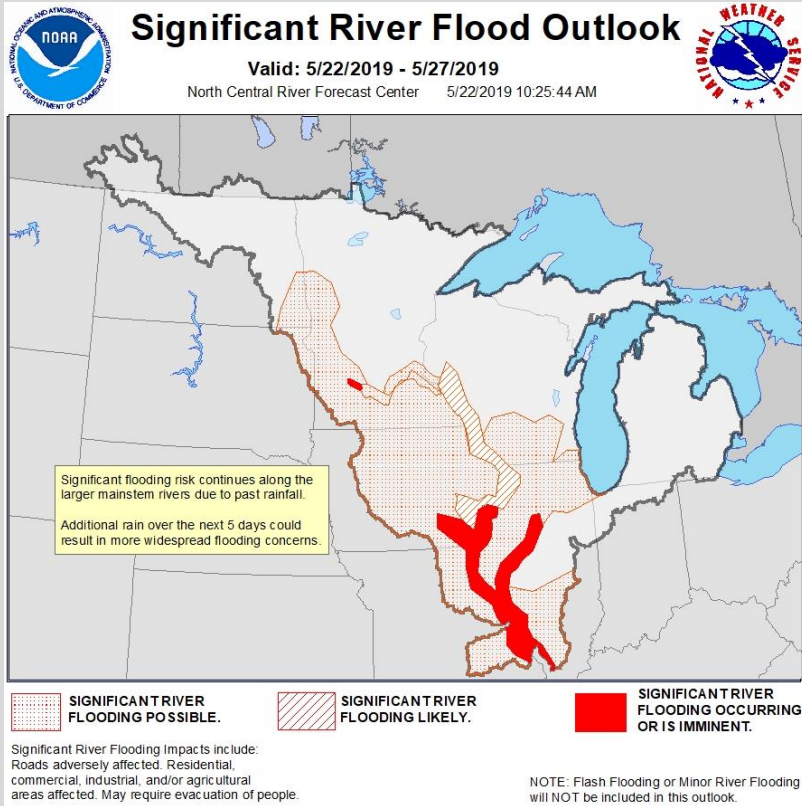
<https://forecast.weather.gov/product.php?site=DVN&issuedby=DVN&product=AFD&format=CI&version=1&glossary=1>



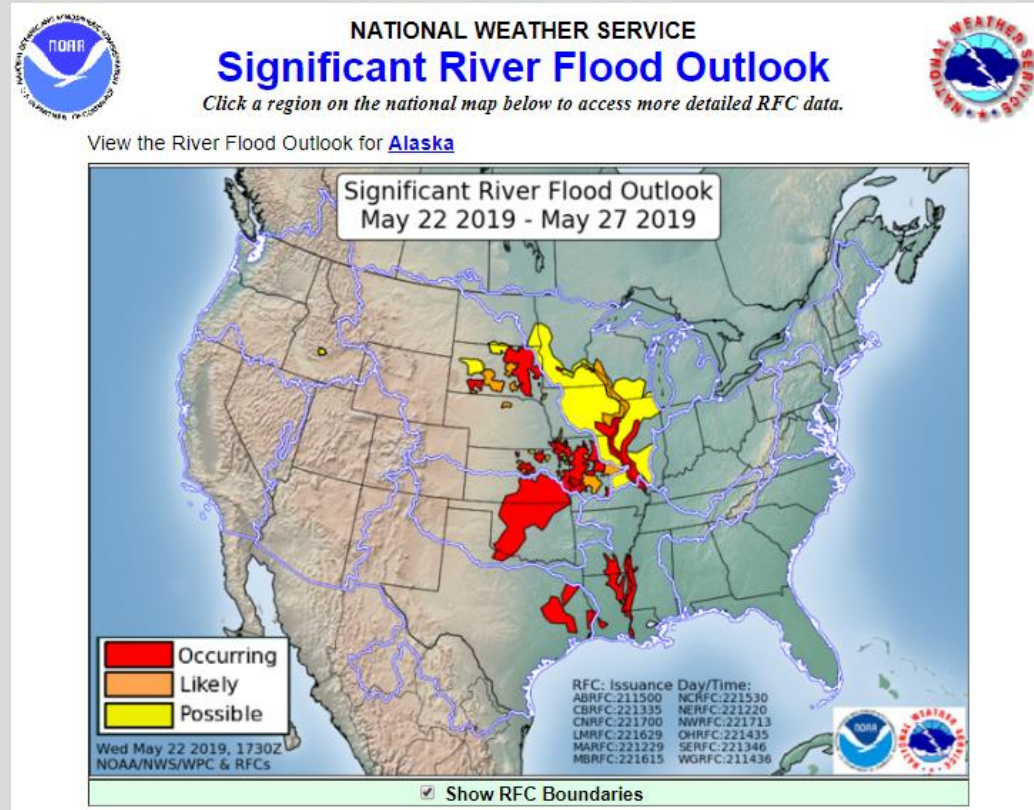
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# River Flood Outlooks



[http://www.weather.gov/ncrfc/LMI\\_FOP\\_summary](http://www.weather.gov/ncrfc/LMI_FOP_summary)



<http://www.wpc.ncep.noaa.gov/nationalfloodoutlook/>

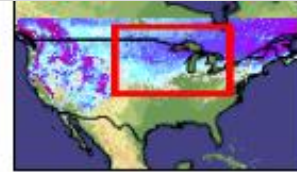
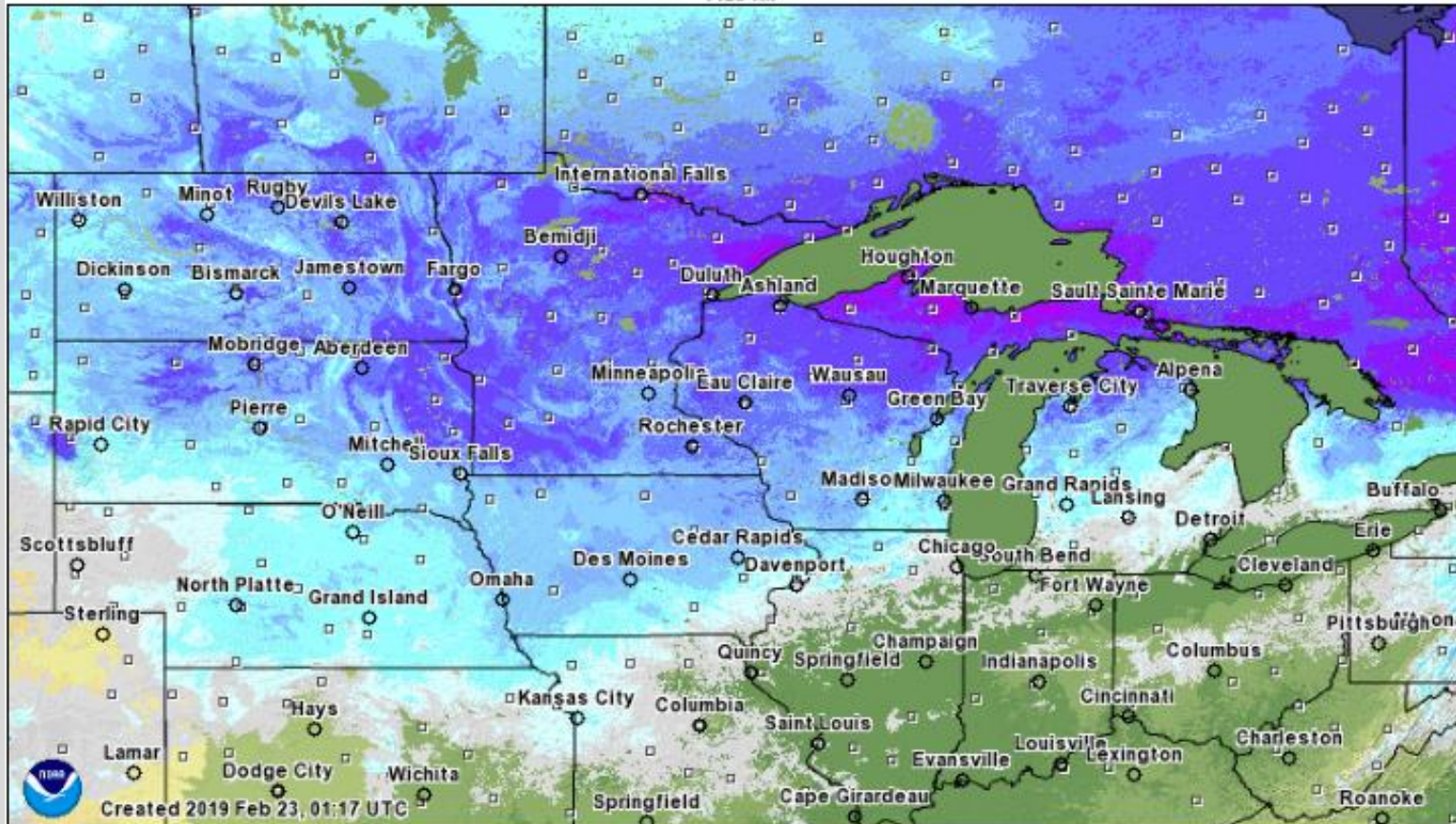




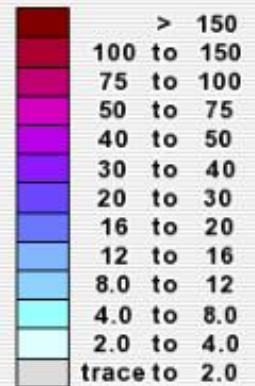
# Snow Cover

National Operational Hydrologic Remote Sensing Center

Modeled Snow Depth for 2019 February 22, 18:00 UTC  
1125 mi

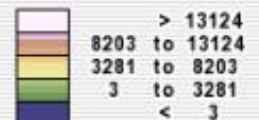


Inches of depth



Not Estimated

Elevation in feet



[www.nohrsc.noaa.gov](http://www.nohrsc.noaa.gov)



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# Excessive Rain Outlooks

**WEATHER PREDICTION CENTER**  
 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NCEP: AWC · CPC · EMC · NCO · NHC · OPC · SPC · SWPC · WPC

HOME ▾ FORECASTS & ANALYSES ▾ ARCHIVES ▾ VERIFICATION ▾ INTERNATIONAL ▾ DEVELOPMENT ▾ ABOUT ▾ SEARCH

HAZARD	MAY 22	MAY 23	MAY 24
EXCESSIVE RAINFALL	SLIGHT	SLIGHT	SLIGHT
HEAVY SNOW (≥ 4")	HIGH	HIGH	SLIGHT
ICE (≥ 0.25")	NO AREA	NO AREA	NO AREA

WPC'S MEDIUM RANGE HAZARDS FORECAST

Overview Surface Analysis Fronts QPF **Excessive Rain** Winter Wx Day 3-7 Forecast Tools

**Excessive Rainfall Forecasts** [Legacy Page:](#) Valid 12Z Wed May 22 2019 - 12Z Thu May 23 2019

Day 1 Day 2 Day 3

**Day 1 Excessive Rainfall Outlook**  
 Valid 12Z Wed May 22 2019  
 Thru 12Z Thu May 23 2019  
 Issued: 0823Z Wed May 22 2019  
 Forecaster: HURLEY  
 NOAA/NWS/NCEP/WPC

Risk of rainfall exceeding flash flood guidance within 25 miles of a point  
**HIGH: > 50%** **SLGT: 10%-20%**  
**MDT: 20%-50%** **MRGL: 5%-10%**

+ Forecast Discussion  
 + Additional Links

**Day 2 Excessive Rainfall Outlook**  
 Valid 12Z Thu May 23 2019  
 Thru 12Z Fri May 24 2019  
 Issued: 0807Z Wed May 22 2019  
 Forecaster: CAMPBELL  
 NOAA/NWS/NCEP/WPC

Risk of rainfall exceeding flash flood guidance within 25 miles of a point  
**HIGH: > 50%** **SLGT: 10%-20%**  
**MDT: 20%-50%** **MRGL: 5%-10%**

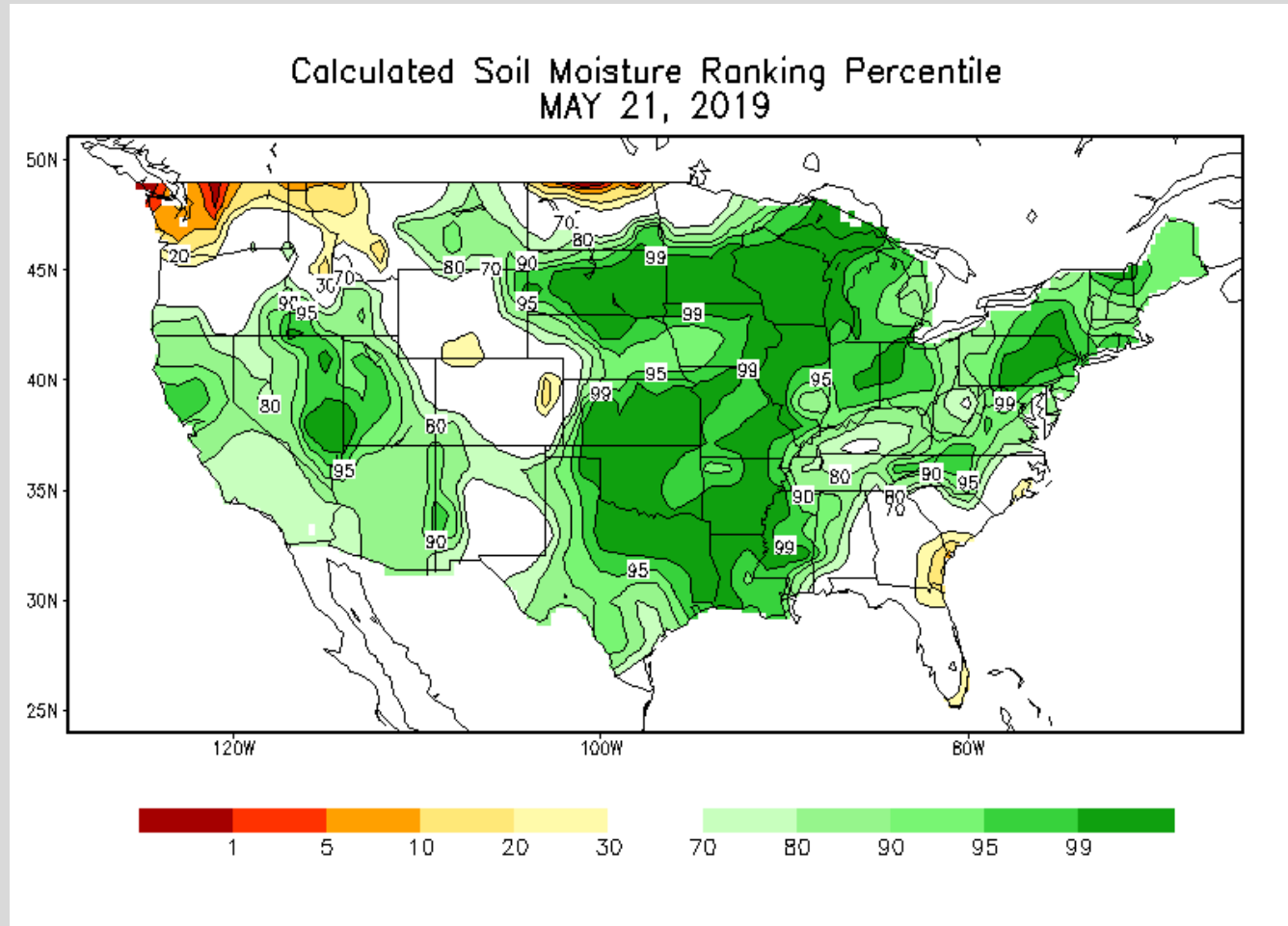
**Day 3 Excessive Rainfall Outlook**  
 Valid 12Z Fri May 24 2019  
 Thru 12Z Sat May 25 2019  
 Issued: 0821Z Wed May 22 2019  
 Forecaster: CAMPBELL  
 NOAA/NWS/NCEP/WPC

Risk of rainfall exceeding flash flood guidance within 25 miles of a point  
**HIGH: > 50%** **SLGT: 10%-20%**  
**MDT: 20%-50%** **MRGL: 5%-10%**

wpc.ncep.noaa.gov



# Soil Moisture



[http://www.cpc.ncep.noaa.gov/products/Soilmst\\_Monitoring/US/Soilmst/Soilmst.shtml](http://www.cpc.ncep.noaa.gov/products/Soilmst_Monitoring/US/Soilmst/Soilmst.shtml)



# Drought Status

## U.S. Drought Monitor Midwest

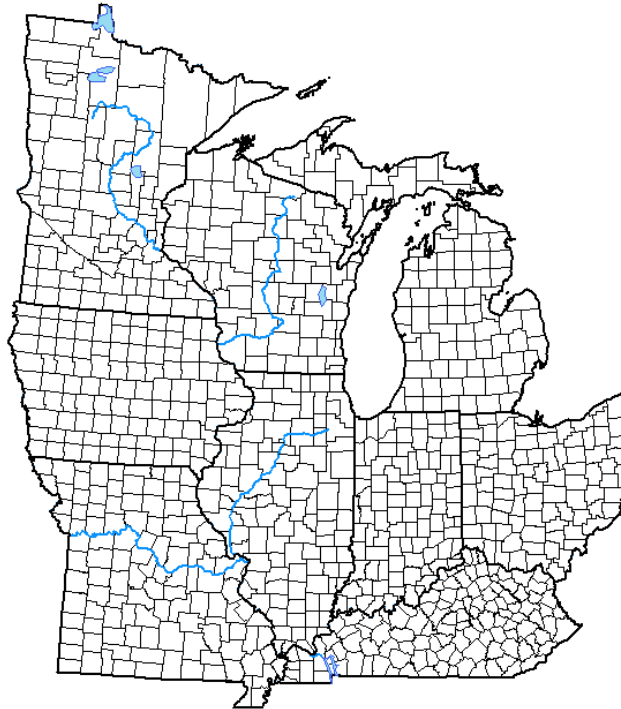
May 14, 2019

(Released Thursday, May 16, 2019)

Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	100.00	0.00	0.00	0.00	0.00	0.00
Last Week 05-07-2019	100.00	0.00	0.00	0.00	0.00	0.00
3 Months Ago 02-12-2019	99.72	0.28	0.00	0.00	0.00	0.00
Start of Calendar Year 01-01-2019	99.27	0.73	0.00	0.00	0.00	0.00
Start of Water Year 09-25-2018	81.26	18.74	8.55	1.71	0.37	0.01
One Year Ago 05-15-2018	74.62	25.38	4.45	0.00	0.00	0.00



### Intensity:

None	D0 Abnormally Dry	D1 Moderate Drought	D2 Severe Drought	D3 Extreme Drought	D4 Exceptional Drought
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The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

### Author:

Curtis Riganti  
National Drought Mitigation Center



droughtmonitor.unl.edu

- <https://www.drought.gov/drought/>
- [droughtmonitor.unl.edu](https://droughtmonitor.unl.edu)



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# River Levels

## US Army Corps of Engineers

**RIVERGAGES.COM**  
Water Levels of Rivers and Lakes

US Army Corps of Engineers

Home Search This Site Related Websites Data Mining Glossary Reports Who We Are Contact Us

Water Levels By:  
Choose An Option

National Weather Service Products



### Mississippi River & Passes

- View Real-Time Stations In This Basin
- View All Stations In This Basin
- View All Values In Stage
- View All Values In Elevation

Google Earth

STATION * Currently Forecasted Station	RECORD STAGE	FLOOD STAGE	LATEST LEVEL	24 Hr CHANGE	24 Hr PRECIP
<a href="#">Mississippi River at Lock and Dam 15 (POOL)</a> as of 08:00			<a href="#">17.34</a>	<a href="#">+ 0.02</a>	
* <a href="#">Mississippi River at Lock and Dam 15 (Rock Island,IL)</a> as of 08:00	22.63 07/09/1993	15.00	<a href="#">16.62</a>	<a href="#">+ 0.04</a>	
* <a href="#">Mississippi River at Lock and Dam 15 (MET Station)</a> as of 14:00		15.00	<a href="#">16.60</a>	<a href="#">+ 0.05</a>	<a href="#">0.43</a>

Google Earth

[What's This?](#)

Mississippi River at Lock and Dam 15 (Rock Island,IL)

Stream Name: Mississippi River  
Gage Zero: 542.50 Ft. MSL 1912  
Flood Stage: 15 Ft.  
Record High Stage: 22.63 Ft.

Longitude: -90.56194000  
Latitude: 41.51778000  
Flat Pool: 18.50  
Flat Tail: 2.60  
River Mile: 482.9 miles above the mouth of the Ohio River  
Record High Stage Date: 07/09/1993

Drainage Area: 88500.00 Mi<sup>2</sup>  
Location of Gage:

Pool No. 15 extends from Rock Island, IL, 10.4 miles upstream to LeClaire, IA. Lock and Dam 15 is located on the north side of the West End of Arsenal Island. The Lock and Dam is immediately downstream of the Government Bridge. A Visitor's Center is located at the Lock and Dam.

The National Weather Service information is also linked in the Additional Links for this station.

This gage is operated by the US Army Corps of Engineers (Rock Island District).

Latest Data  
05/22/2019 08:00 Central

Latest Stage: **16.62 Ft.**  
24 Hr. Change: +0.04 Ft.  
Tomorrow's Forecast (Issued 05/22/2019 10:40): 16.50 Ft. [Plot Forecast](#)  
Last Year's Stage: 13.57 Ft.  
Today's Historic Normal Stage: 8.40 Ft.  
Today's Historic Max Stage: 15.67 Ft.  
Today's Historic Min Stage: 3.80 Ft.  
Latest Pool Level: 17.34 Ft.  
24 Hr. Change: +0.02 Ft.  
Last Year's Pool Level: 18.03 Ft.

7 Days Stage

Plot Tabulate

Daily Historic Data (06:00 Central Reading)  
Choose A Parameter

From: JAN 1 2019  
To: DEC 31 2019

Stage

Plot (5-Year Limit) Tabulate (Yearly Formatted)

[View All Images](#)

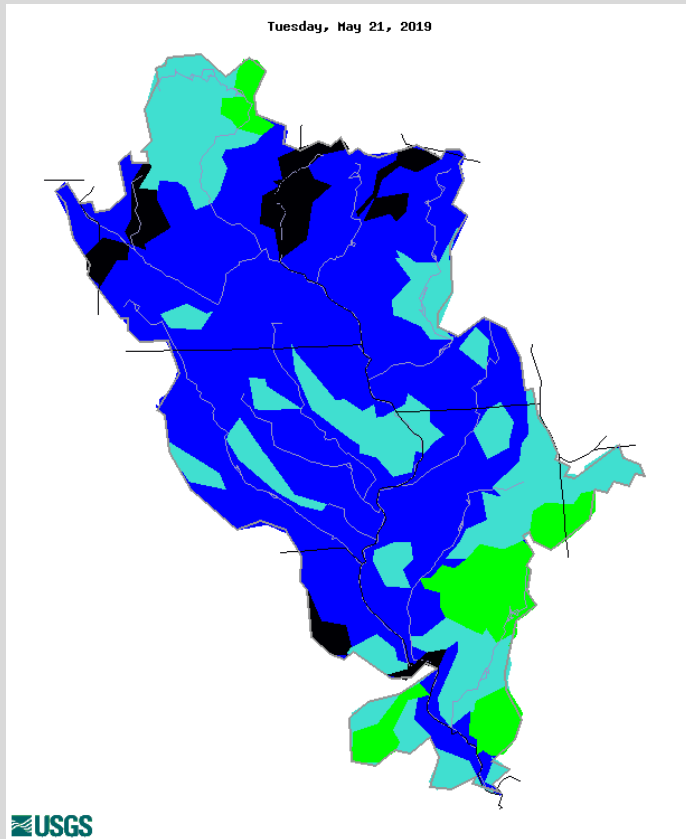
Additional Links:  
[View Record Stage High / Lows](#)  
[Vessel's Queued at Lock 15](#)  
[Historic Flood Profiles \(Pool 15\)](#)  
[WebMET15](#)  
[Real-Time SHEF Report](#)  
[Water Transparency](#)  
[Official National Weather Service information for this station](#)

Rivergages.com

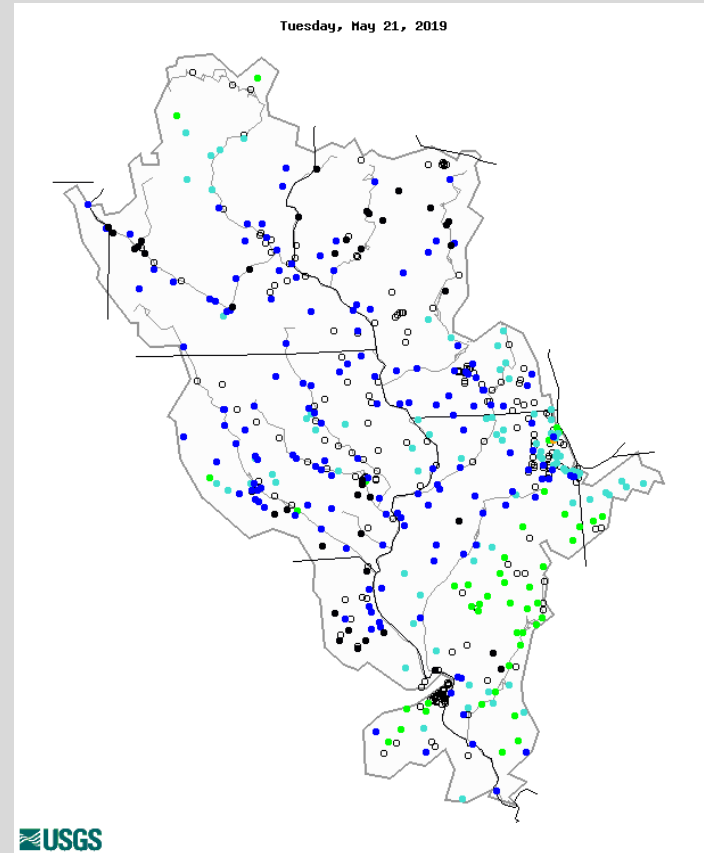


# Stream Levels

## US Geological Survey



Explanation - Percentile classes						
Low	<10	10-24	25-75	76-90	>90	High
	Much below normal	Below normal	Normal	Above normal	Much above normal	



Explanation - Percentile classes							
Low	<10	10-24	25-75	76-90	>90	High	Not-ranked
	Much below normal	Below normal	Normal	Above normal	Much above normal		

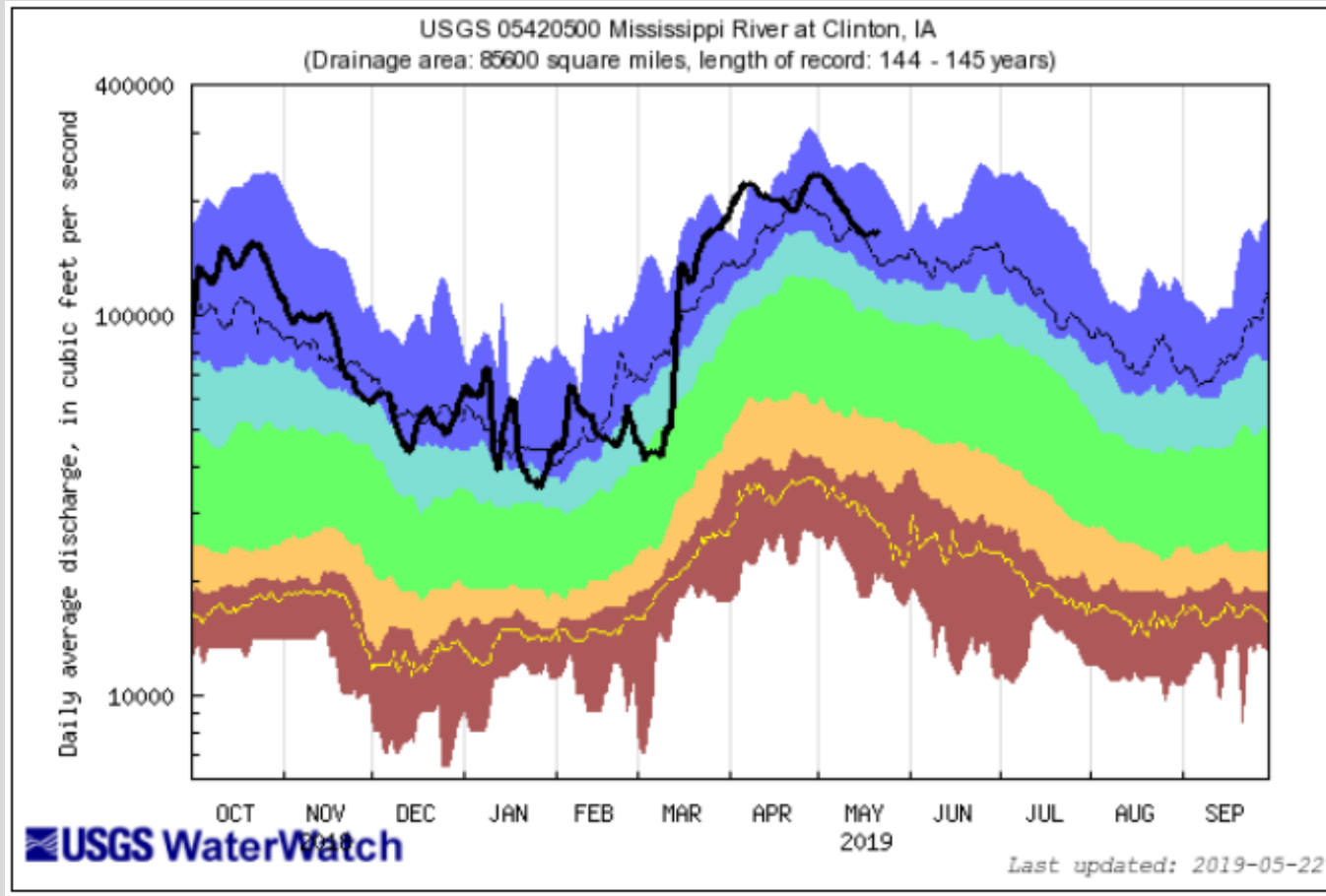
<https://waterwatch.usgs.gov/>



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# Stream Levels

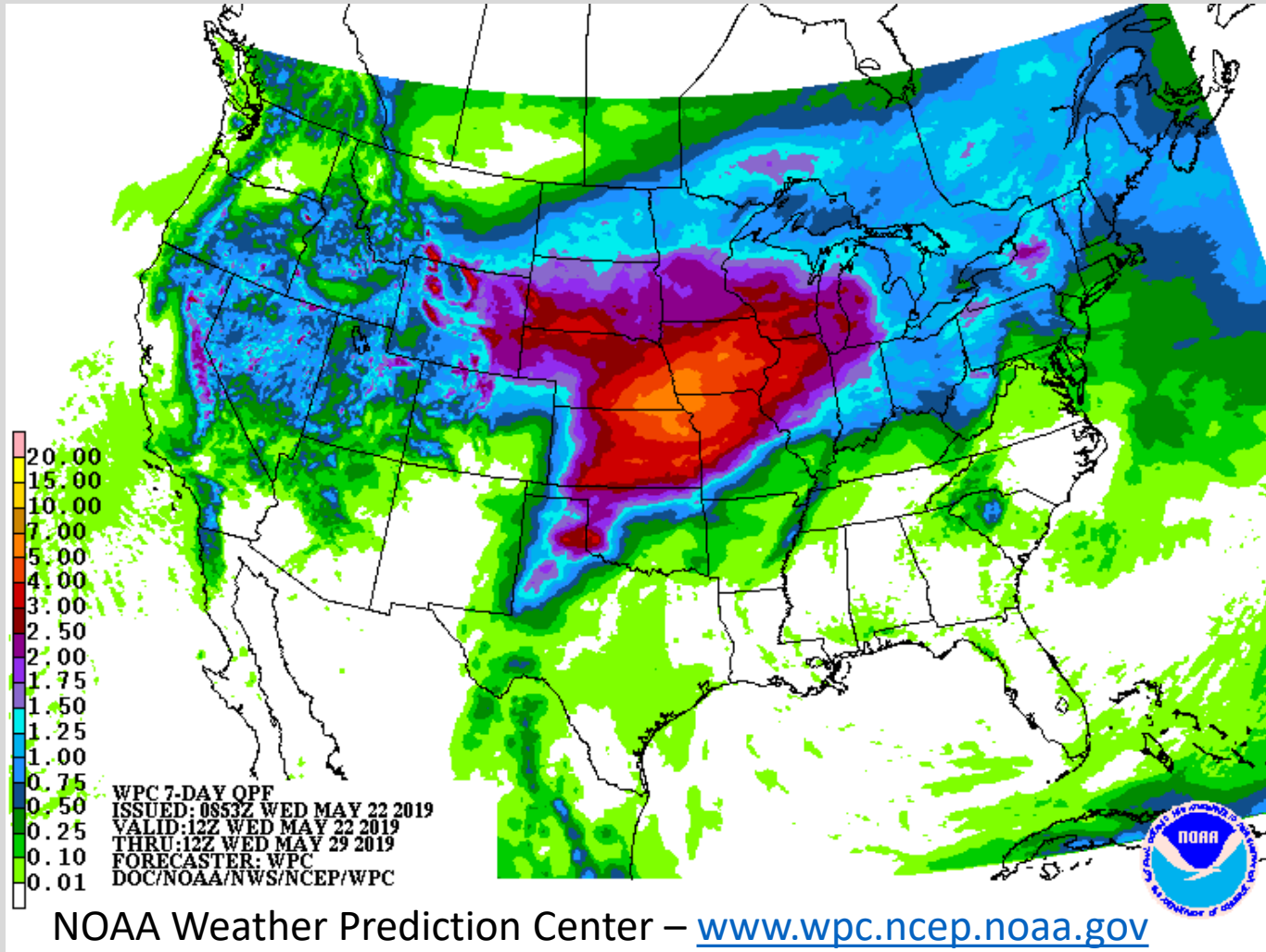


Explanation - Percentile classes						
lowest-10th percentile	5	10-24	25-75	76-90	95 90th percentile-highest	Runoff
Much below Normal	Below normal	Normal	Above normal	Much above normal		

<https://waterwatch.usgs.gov/>

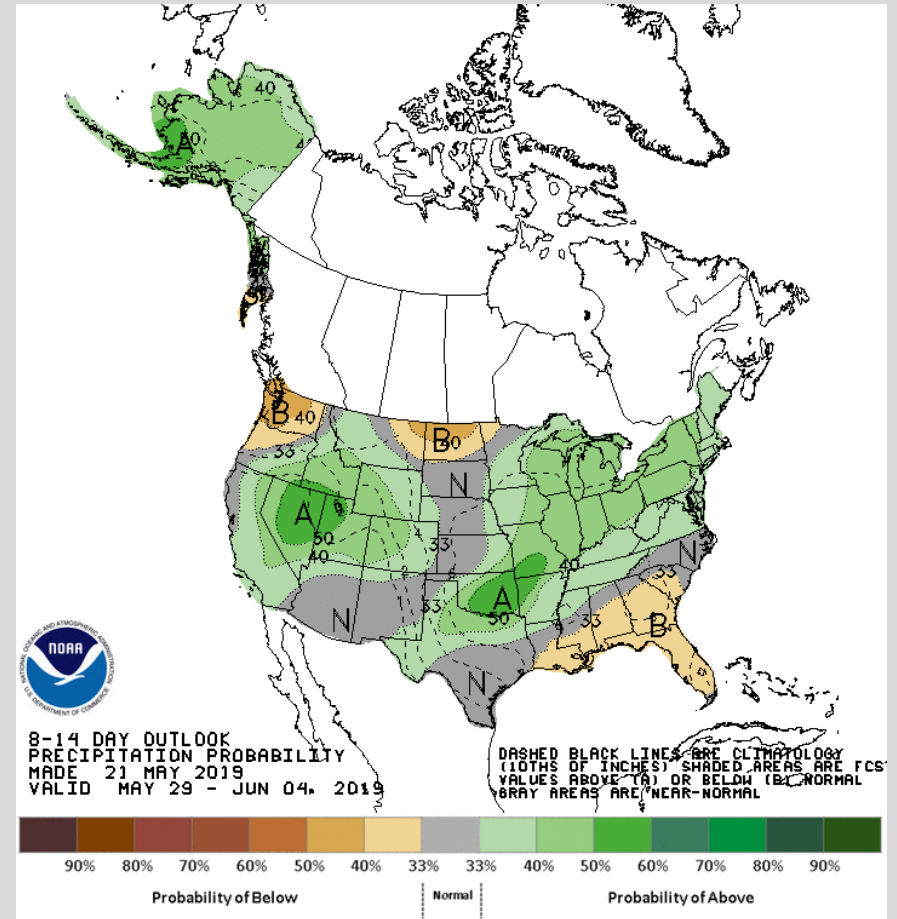
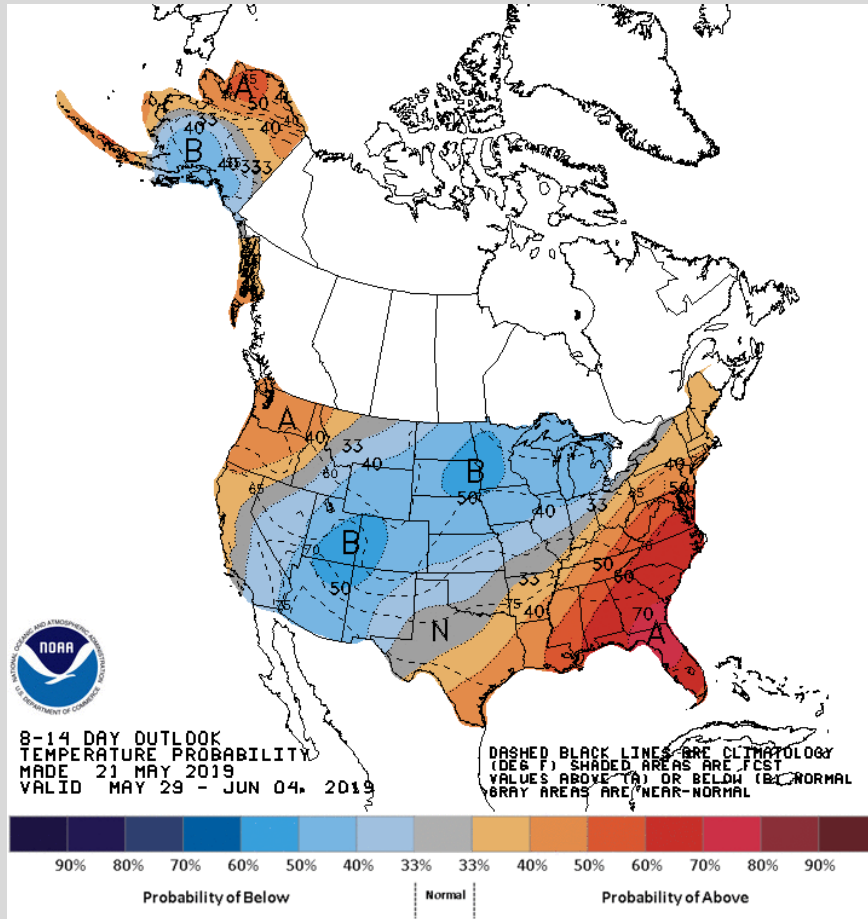


# 7-day Precipitation (QPF) Forecast





# Week 2 Weather Outlook



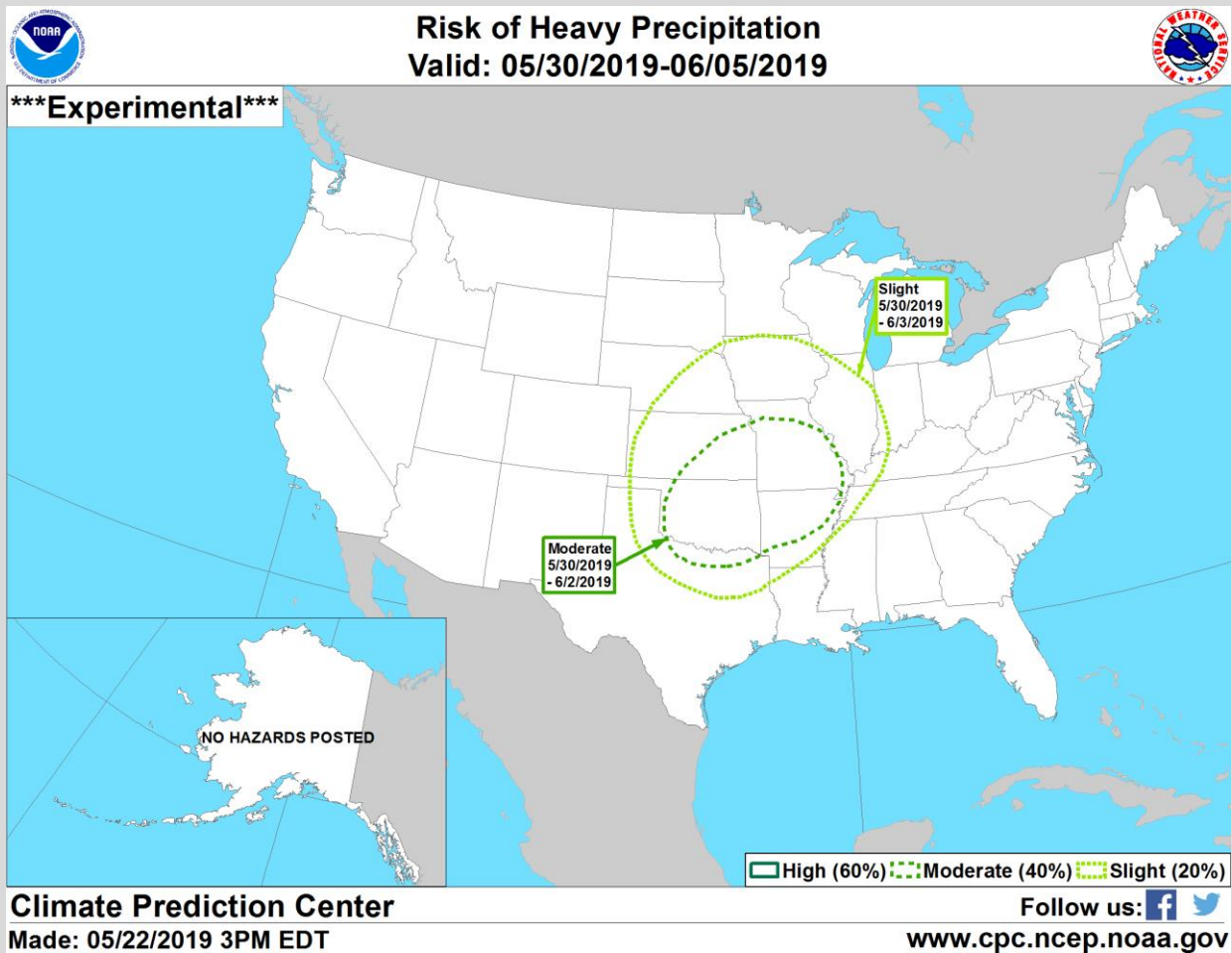
NOAA Climate Prediction Center – [www.cpc.ncep.noaa.gov](http://www.cpc.ncep.noaa.gov)



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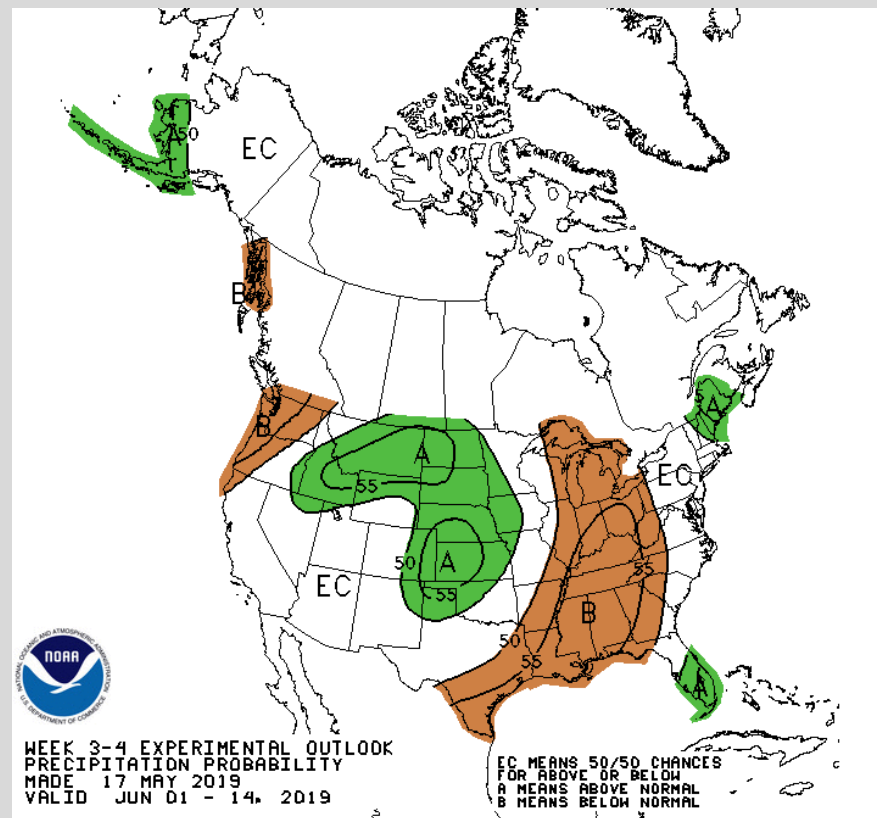
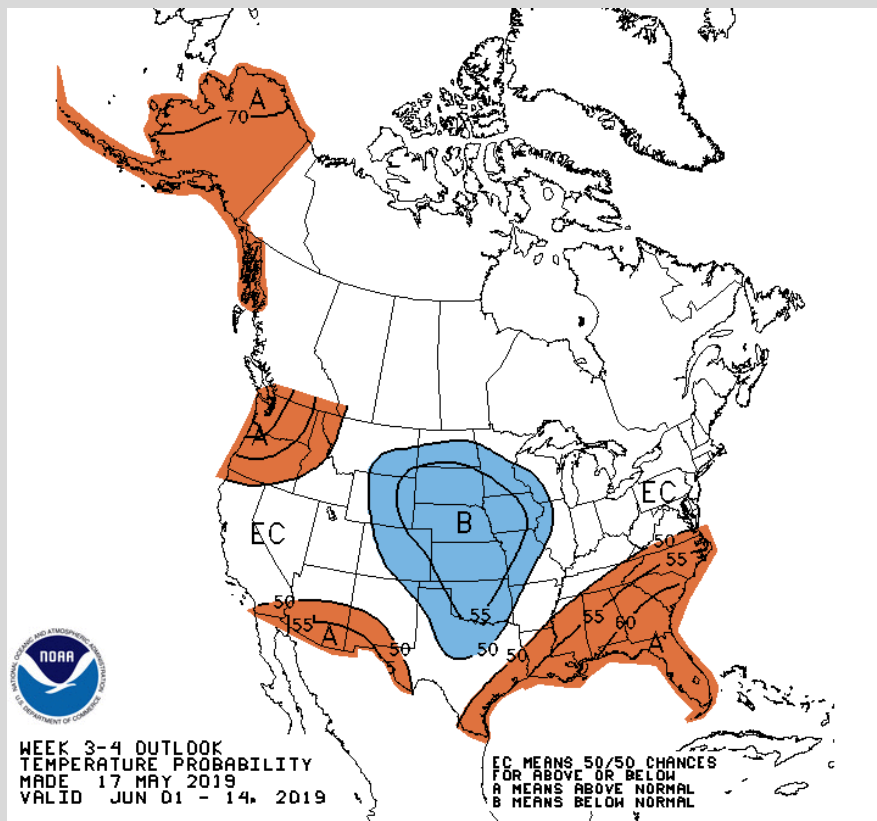
# Week 2 Risk of Heavy Precipitation



NOAA Climate Prediction Center – [www.cpc.ncep.noaa.gov](http://www.cpc.ncep.noaa.gov)



# Weeks 3 & 4 Outlooks



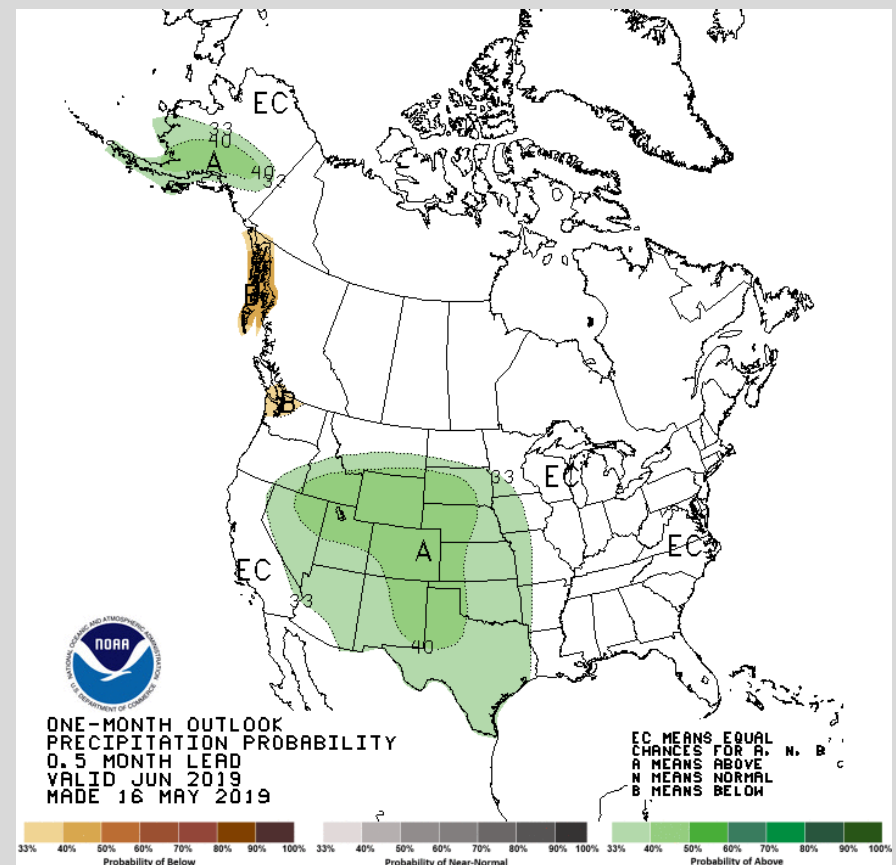
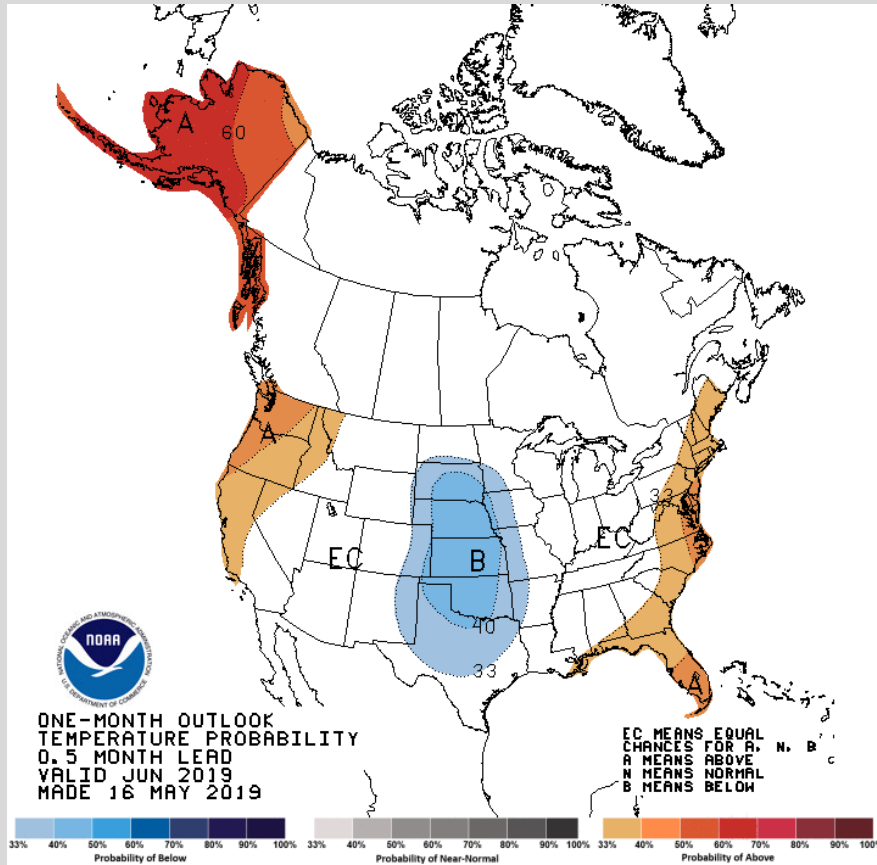
NOAA Climate Prediction Center – [www.cpc.ncep.noaa.gov](http://www.cpc.ncep.noaa.gov)



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# Monthly Weather Outlooks



NOAA Climate Prediction Center – [www.cpc.ncep.noaa.gov](http://www.cpc.ncep.noaa.gov)



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