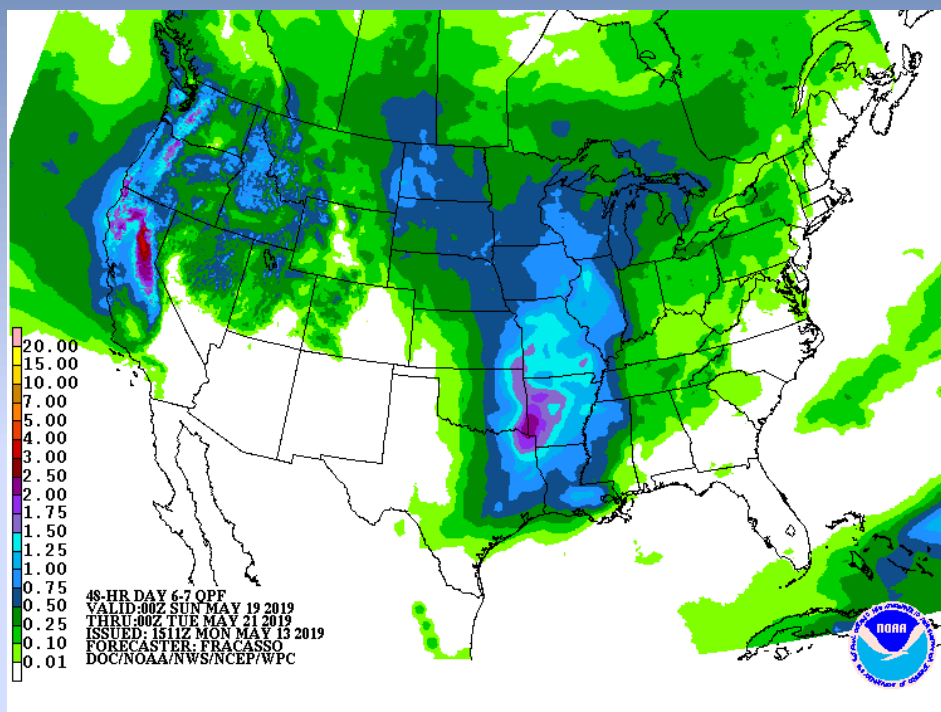
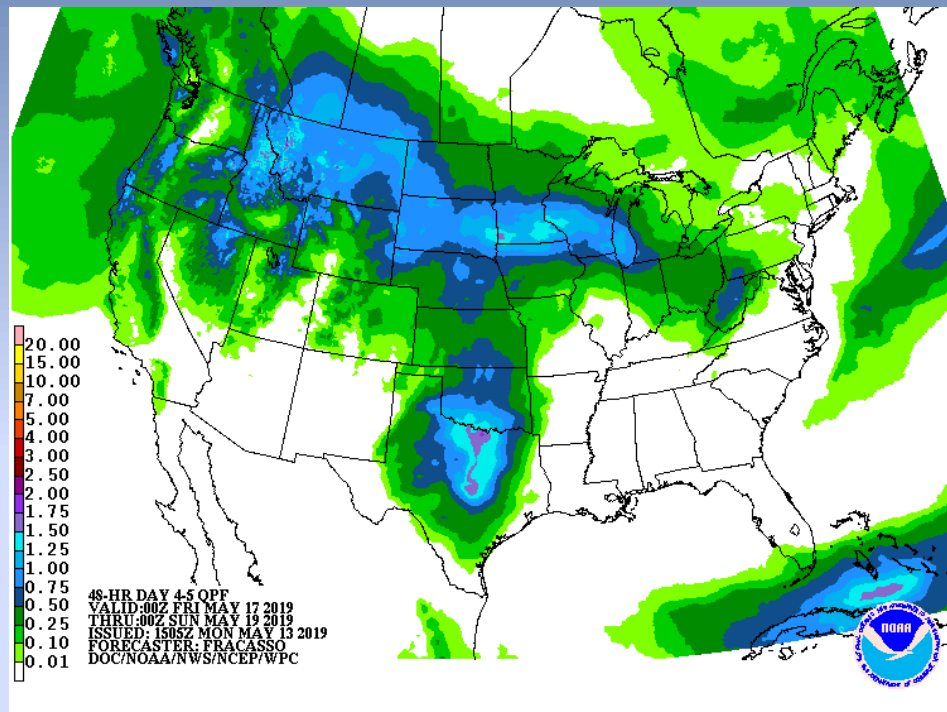




NWS Quad Cities Flood Update

May 13, 2019



*****Additional Webinars for the flooding are not being scheduled at this time. Partners will be notified if the NWS feels renewed threats are possible with the need to pass on critical information.***



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Main Points

- **Almost all rivers experiencing receding river levels.**
(Cedar River from Cedar Rapids downstream – ongoing within bank rises)
- **Mississippi River - Minor Rises or a Slowing Recession expected this week as water moves downriver from last week's rain in MN/WI/northern IA**
- **Improving soil moisture wetness – cool weather slowed this trend**
- **Despite improvement in soil moisture & the falling river levels, the entire region continues to be very susceptible to additional river rises from heavy rains through early this summer**
- **Wetter weather expected over the weekend and into next week.**
- **Potential for active weather (central US) through mid June**
 - **New Rises? Slower Recession? River levels off?**
 - **Considerable uncertainty with the long range forecast!!**





River Flooding Update – May 13, 2019



Latest River Trend Information

- Minor to major flooding continues across much of the Mississippi River
- Minor flooding along the Rock River expected through early this week
- Little rain is expected this week, allowing river levels to fall

Rock River

Site	Trend	Current Level (ft)
Joslin	→	13.20
Moline	→	12.52

Major Flooding
Moderate Flooding
Minor Flooding
No Flooding



NATIONAL WEATHER SERVICE Quad Cities
OCEANIC AND ATMOSPHERIC ADMINISTRATION

Mississippi River

Site	Trend	Current Level (ft)
Dubuque LD 11	↓	15.64
Dubuque RR	↓	17.38
Bellevue	↓	15.87
Fulton	↓	16.44
Camanche	↓	17.96
Le Claire	↓	11.70
Rock Island	↓	17.58
Illinois City	↓	17.75
Muscatine	↓	19.18
New Boston	↓	18.74
Keithsburg	↓	17.31
Gladstone	↓	14.63
Burlington	↓	19.05
Keokuk	↓	17.90
Gregory Landing	↓	19.26



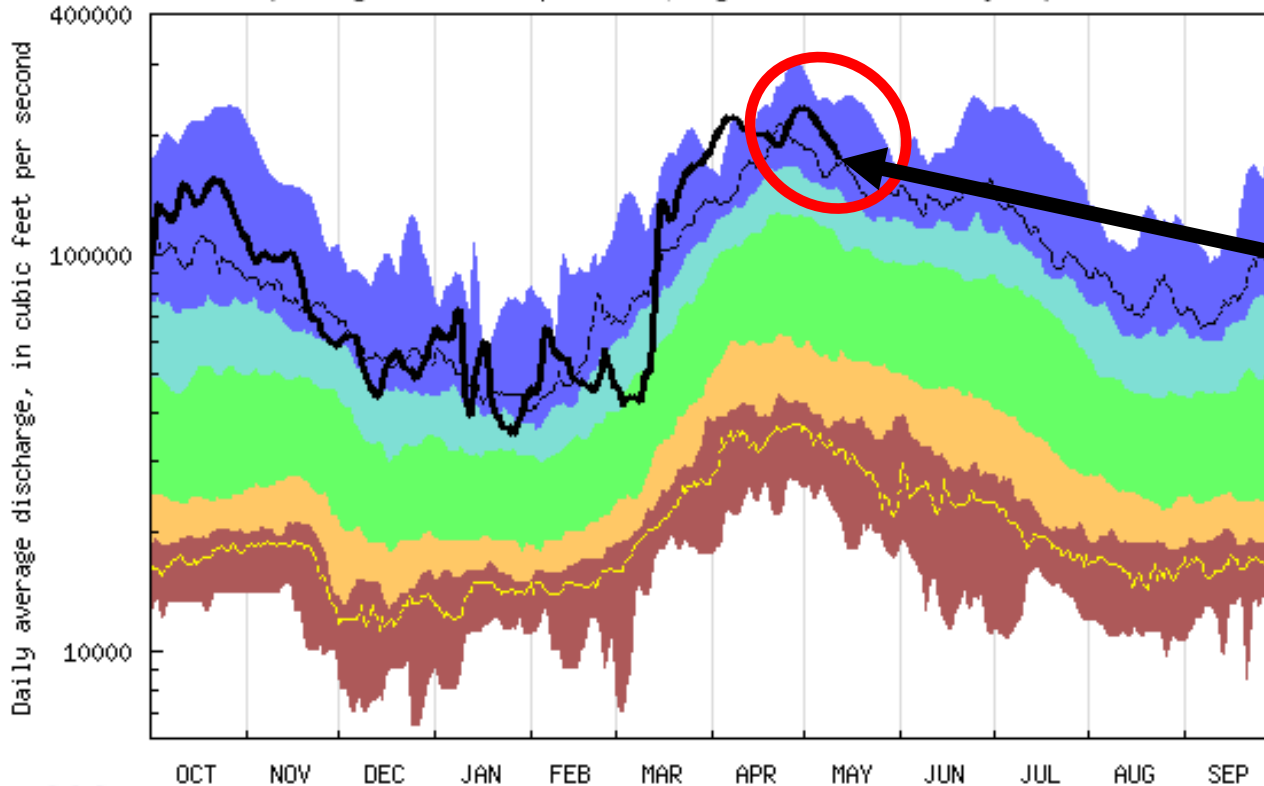
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Mississippi River Conditions

USGS 05420500 Mississippi River at Clinton, IA
 (Drainage area: 85600 square miles, length of record: 144 - 145 years)



Flows along the Mississippi River remain Much Above Normal, despite the ongoing falling levels.

USGS WaterWatch

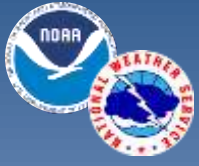
Last updated: 2019-05-13

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



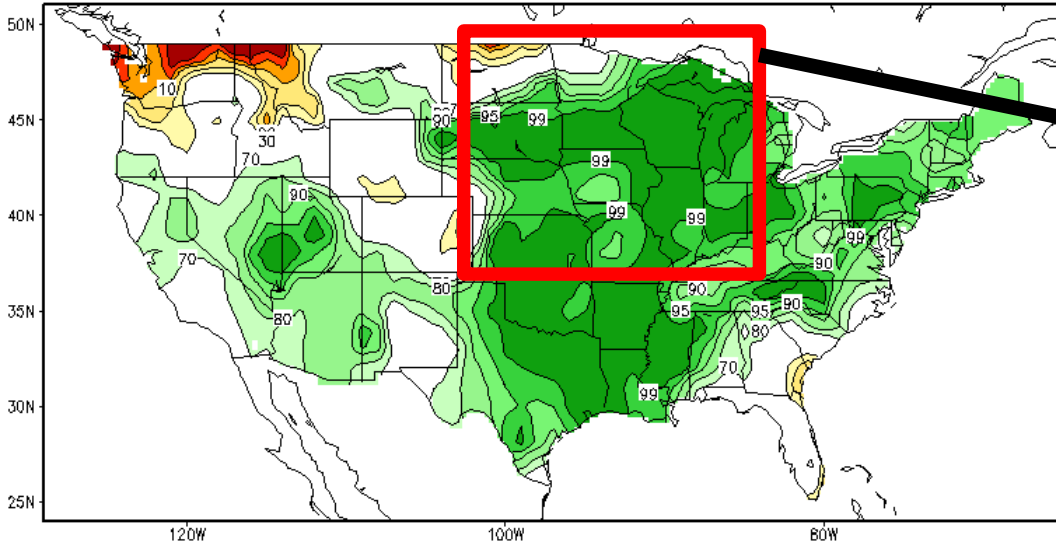
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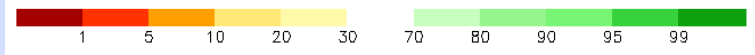
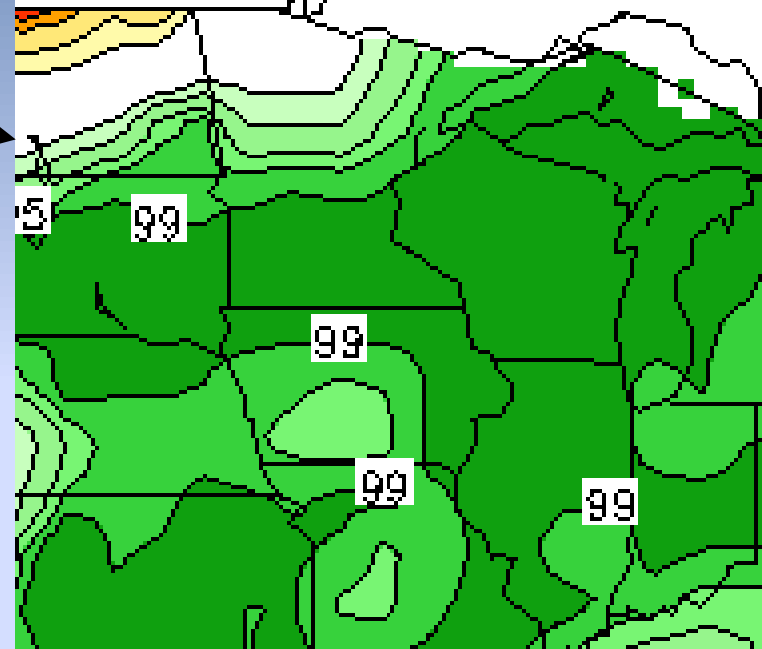


Current Soil Moisture

Calculated Soil Moisture Ranking Percentile
MAY 12, 2019



Calculated Soil Moisture Ranking Percentile
MAY 12, 2019



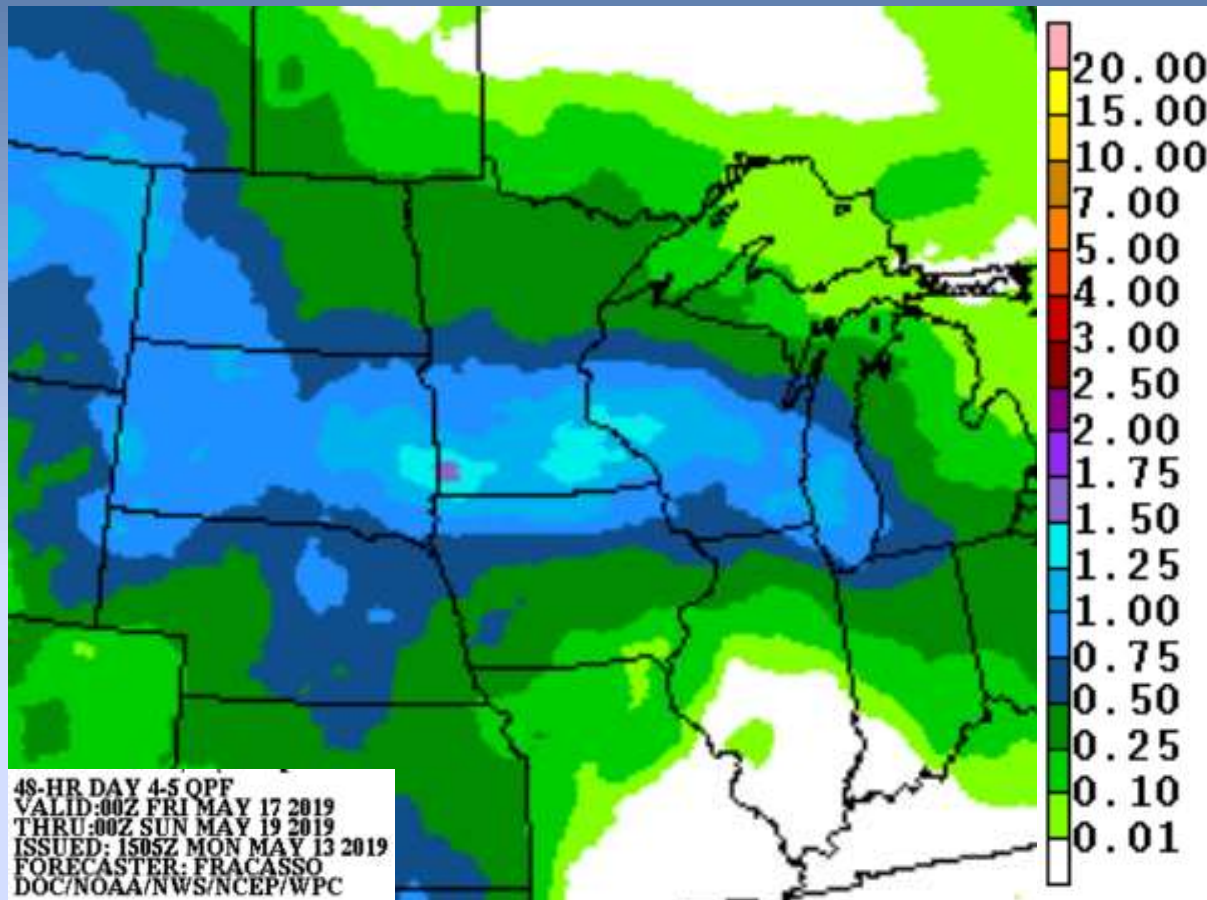
Nearly saturated soils remain across much of the region, including much of the Upper Mississippi River Watershed.





Days 4 & 5 Forecast Rainfall

(rain is NOT included in today's river forecasts)



Current Forecast Rainfall Thursday Night through Saturday:
Considerable Uncertainty remains in the forecast this week.



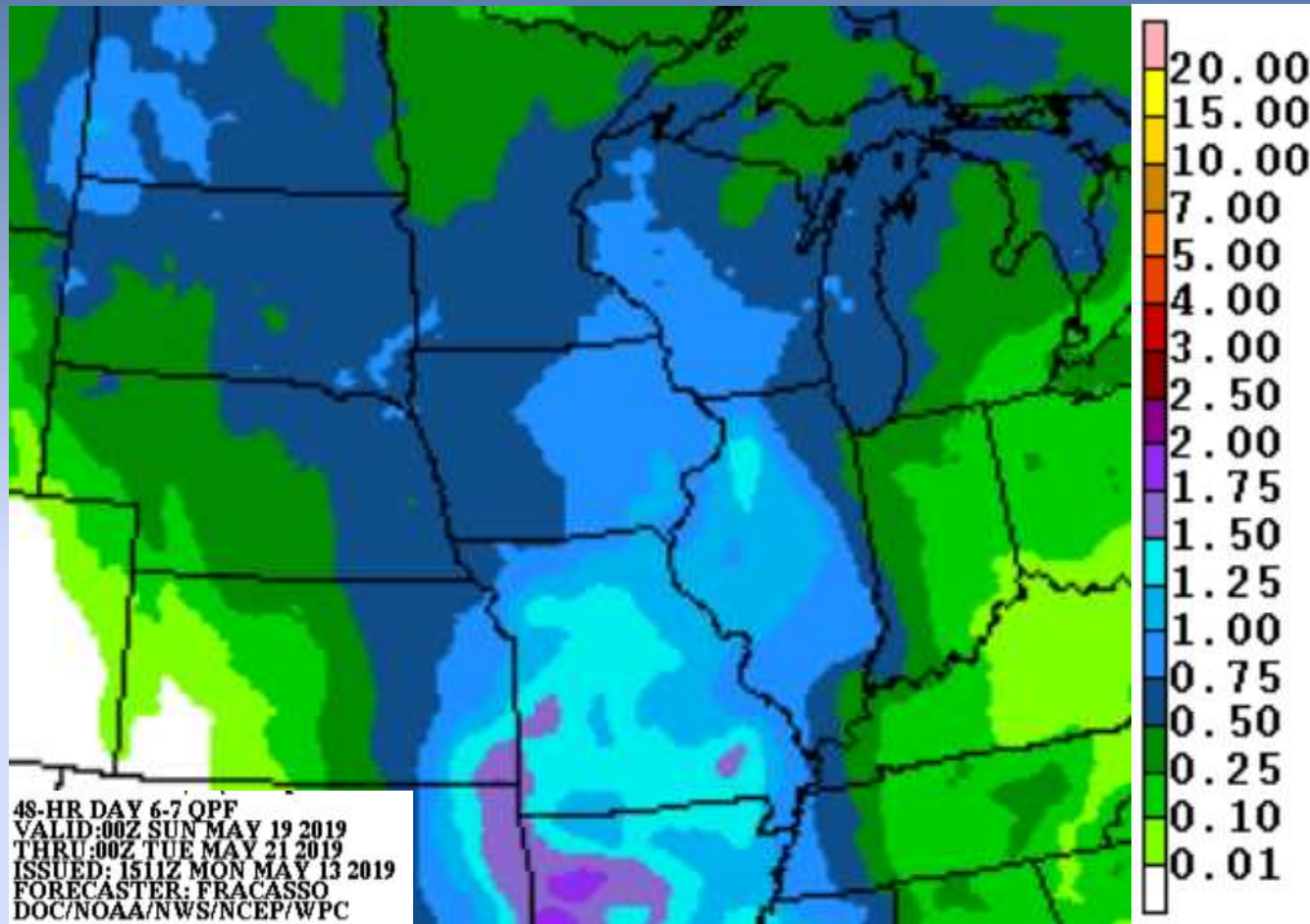
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Days 6 & 7 Forecast Rainfall

(rain is NOT included in today's river forecasts)



Current Forecast Rainfall Saturday Night through Monday:
Considerable Uncertainty remains in the forecast this week.

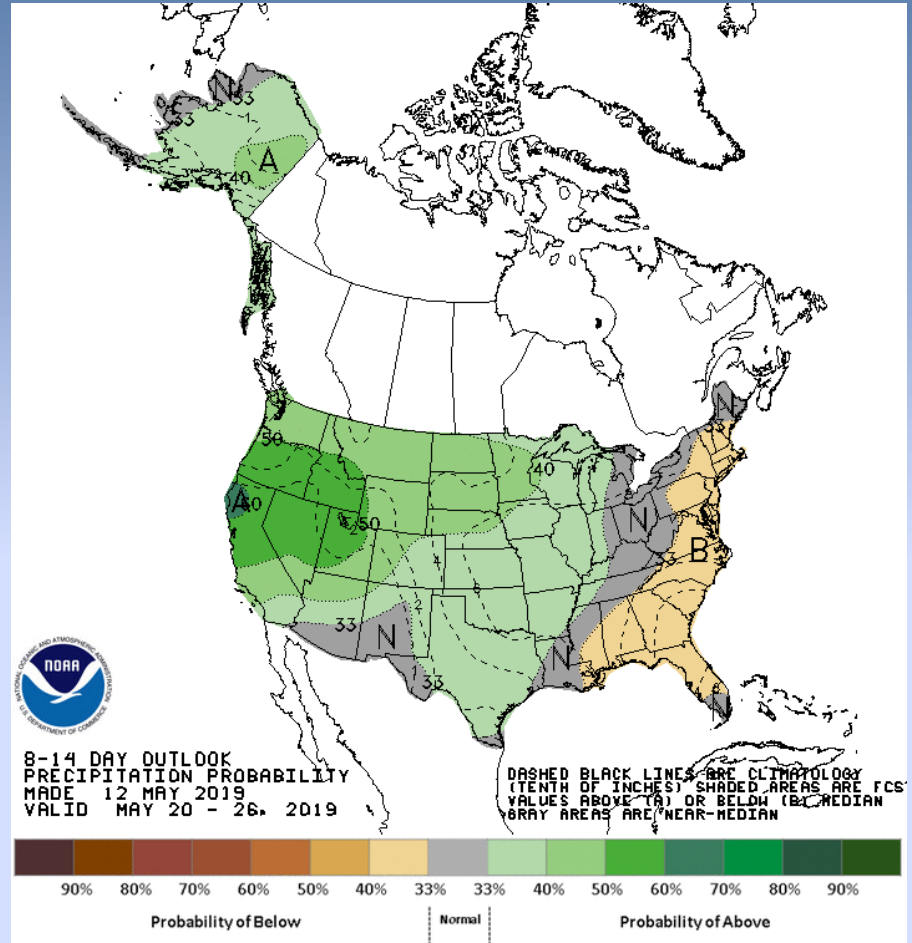
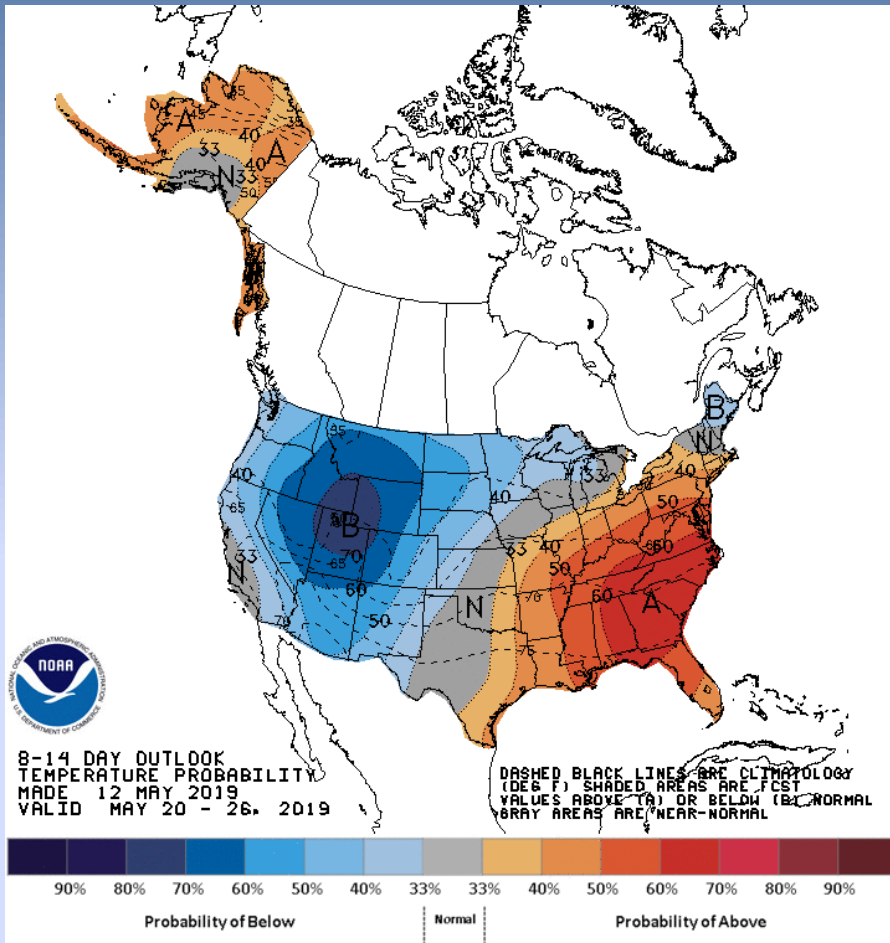


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Week 2 Outlook

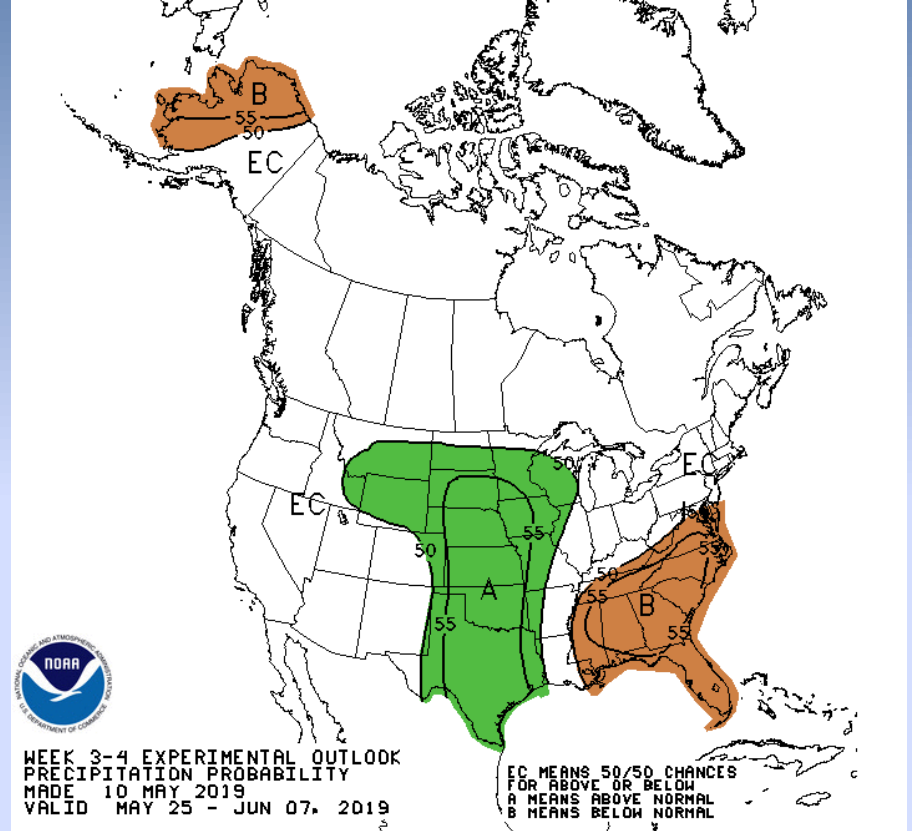
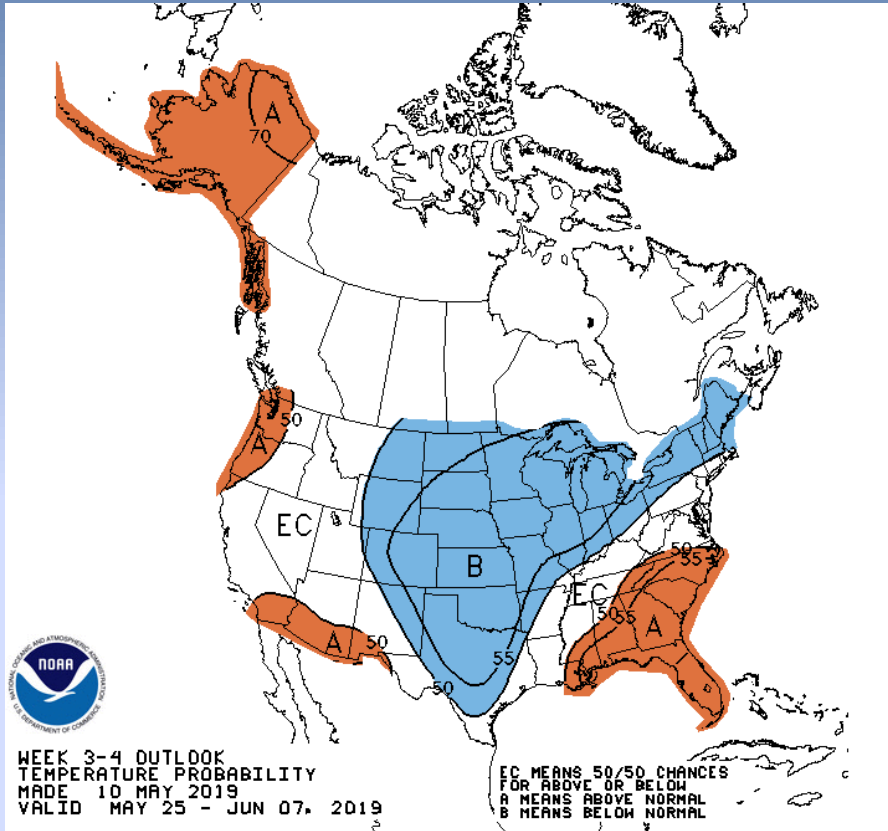


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Weeks 3 & 4 Outlook

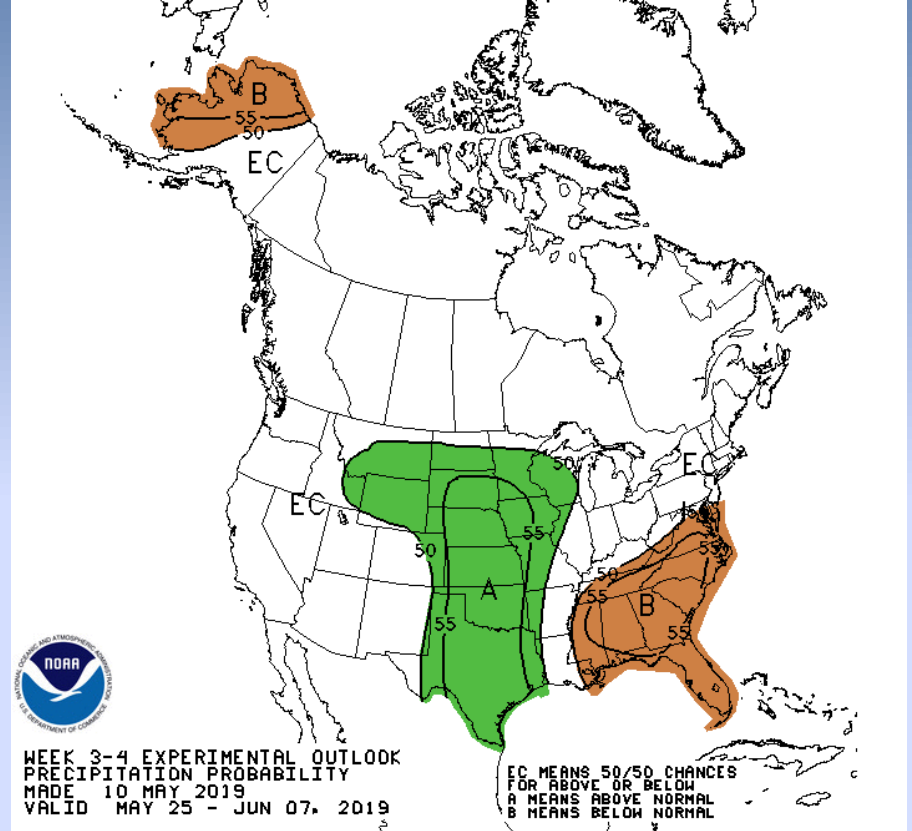
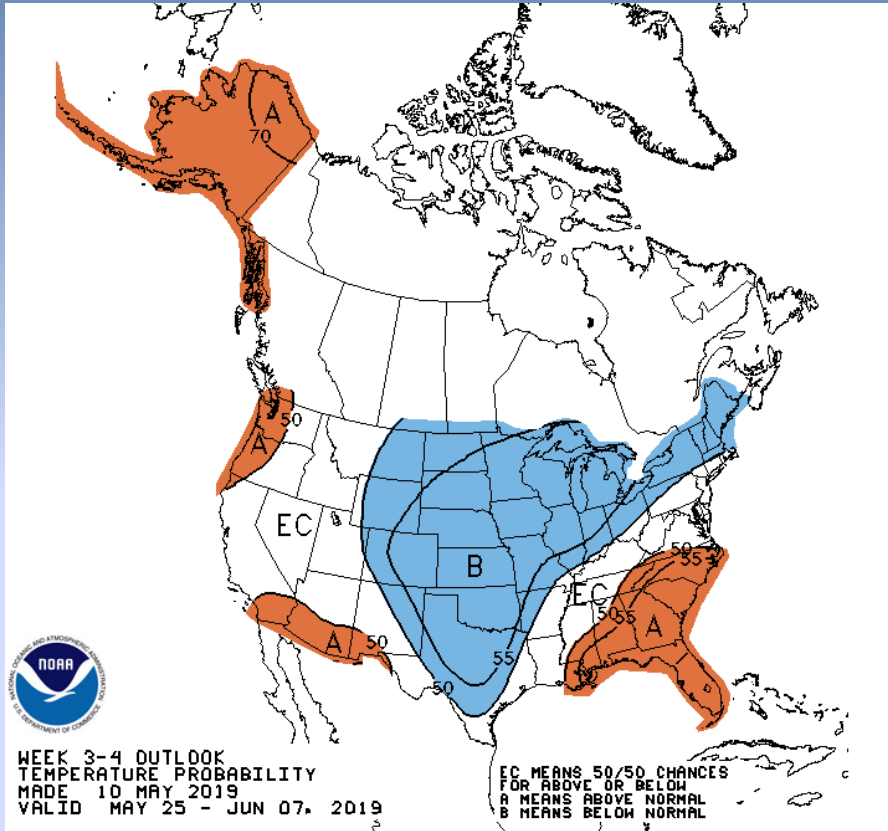


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Weeks 3 & 4 Outlook



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Potential Rainfall Impacts to Mississippi River Levels

- With no rain, it will take through early June to drop river levels back to normal for this time of year.
- Any additional rain will have the potential to cause:
 - **New Rises**
 - **Recession to slow or even level off for a period of time**
- Is there still potential for renewed high levels on the Mississippi River over the next several months?
 - Yes, IF a wet pattern persists with heavy rainfall across the region.
 - Every dry day improves conditions and lessens the potential for renewed higher levels.





Bottom Line for the Next Week

- **Minor rises or a slowing recession this week from last week's runoff from MN/WI/northern IA**
- **Wetter conditions are expected beginning later this week through the weekend. Potential for active weather for the next month.**
- **Soil moisture is improving (drying) but slowly so the entire region remains susceptible to renewed rises from heavy rains through early summer.**
- **High river levels will persist through May. Each additional rain will prolong the high levels.**





Information Sources

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

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

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

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



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