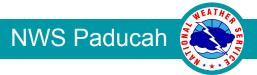




#### 2025 Updates

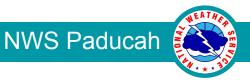
- Thursday, February 13
- Thursday, February 28
- Thursday, March 13

- A multi-month probabilistic outlook issued each spring
- Provides relative risk of flooding (current conditions compared to average conditions)
- Helps with long range planning decisions



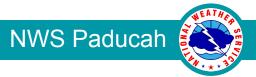
## Bottom Line Up Front:

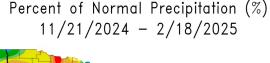
- Mississippi and Local Tributaries: Minor flooding is possible. There is a normal to below normal flood risk.
- Minor and isolated moderate flooding is expected (50% chance or greater)
- Minor and isolated moderate to major flooding is possible (25% chance or greater)

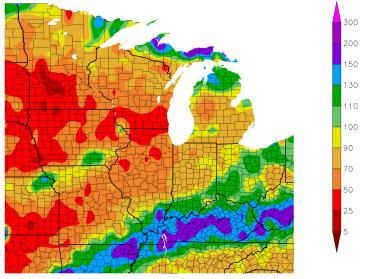


## Factors we look at for spring flooding:

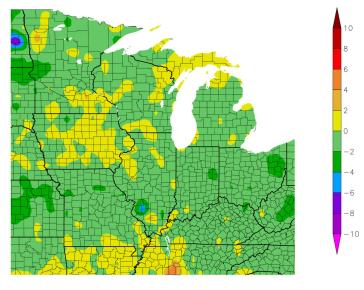
- Recent precipitation
- Snowpack
- Soil moisture
- Current flow in area rivers
- Future rainfall







Departure from Normal Temperature (F) 11/21/2024 - 2/18/2025



Generated 2/19/2025 at HPRCC using provisional data.

NOAA Regional Climate Centers

Generated 2/19/2025 at HPRCC using provisional data.

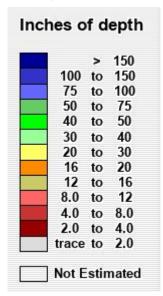
NOAA Regional Climate Centers

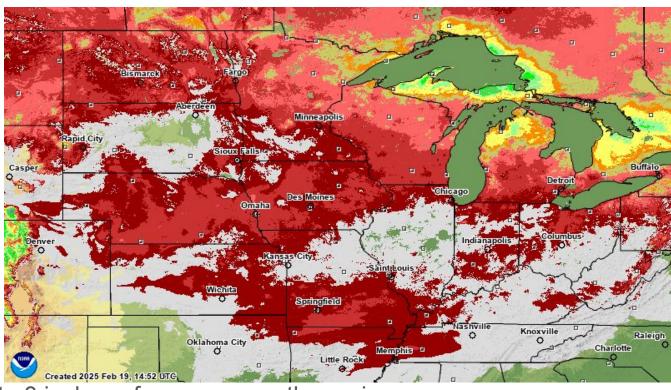
Precipitation has been above normal in our area but in the upper parts of the Mississippi Basin - below to much below normal. Temperatures have been near normal.

**NWS Paducah** 

#### **Snow Depth**

Wednesday, February 19



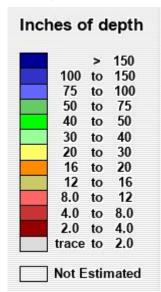


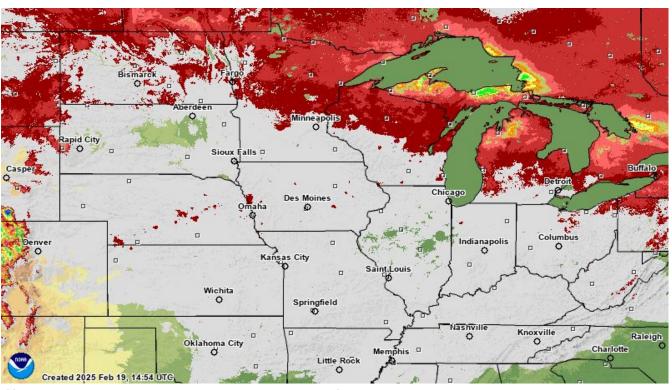
Most areas saw 4 to 8 inches of snow across the region.



## **Snow Water Equivalent**

Wednesday, February 19



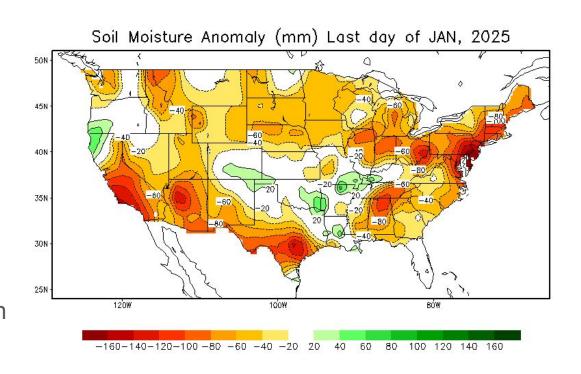


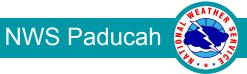
It was a light and fluffy snow with less than 1 inch of water in the snowpack.

#### Spring Flood Outlook 2025 - Soil Moisture Anomalies

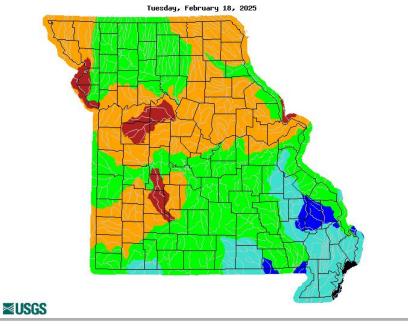
This does not take into account the heavy rain event across the Ohio Valley this past weekend.

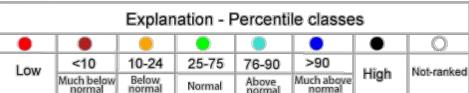
Ohio and middle Mississippi Valley is wetter than normal and upper parts of the Mississippi Basin are drier.

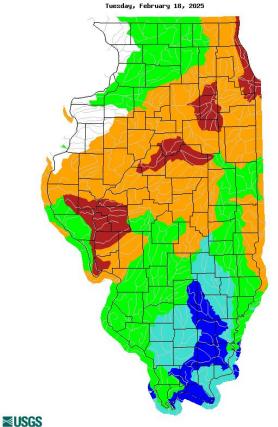




## Spring Flood Outlook 2025 - Current Streamflow







Higher streamflows in our area vs lower stream flow further north.



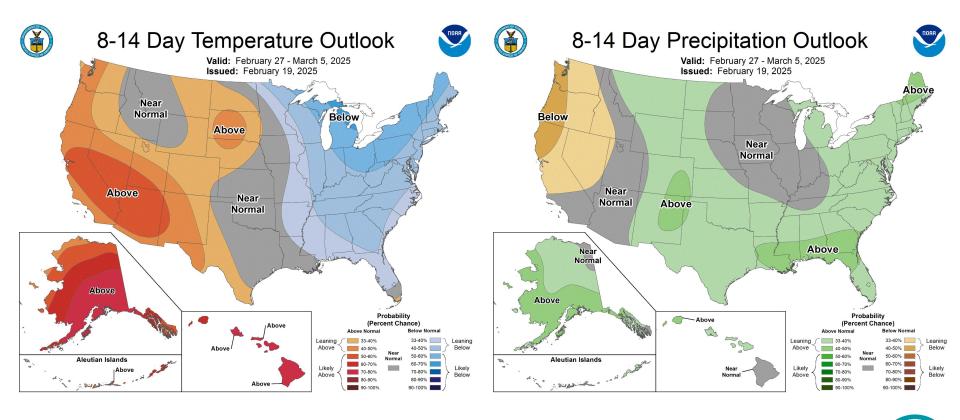
Next 7 Days of Precipitation 20.00 15.00 10.00 7.00 5.00 4.00 3.00 . 50 168-Hour Day 1-7 QPF Valid 00Z Thu Feb 20 2025 Thru 00Z Thu Feb 27 2025 Issued: 2308Z Wed Feb 19 2025 Forecaster: WPC DOC/NOAA/NWS/NCEP/WPC

Very little rainfall is expected over the next week.

Temperatures will moderate away from these frigid readings to more normal to above normal next week.

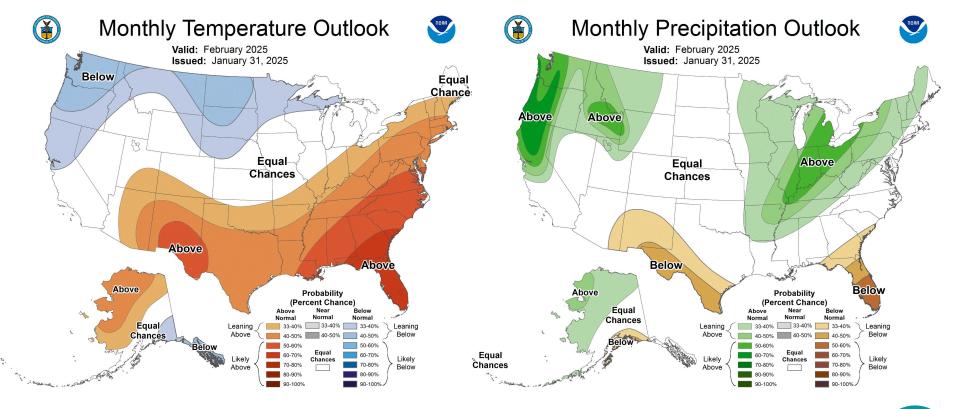


## 8-14 Day Outlook

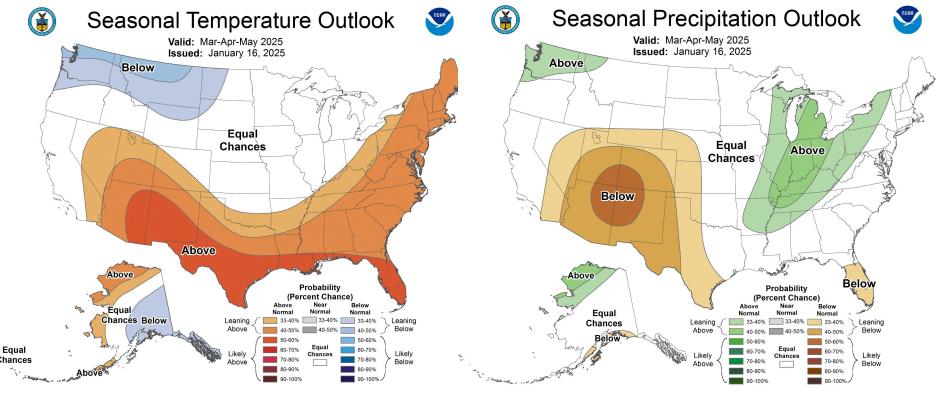




#### February Outlook (new outlooks issued too late for presentation)

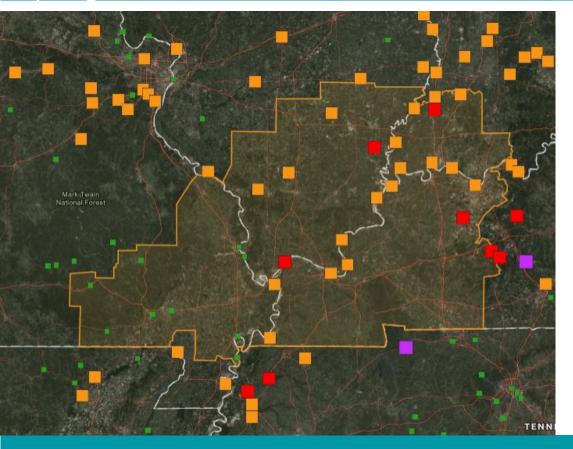


## 90-Day Outlook - Preliminary (March-May)



Preliminary outlook based heavily on La Nina spring which has been shown to be weakening.

## Spring Flood Outlook 2025 – 50%

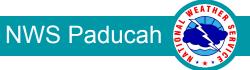


50% chance or greater major flooding

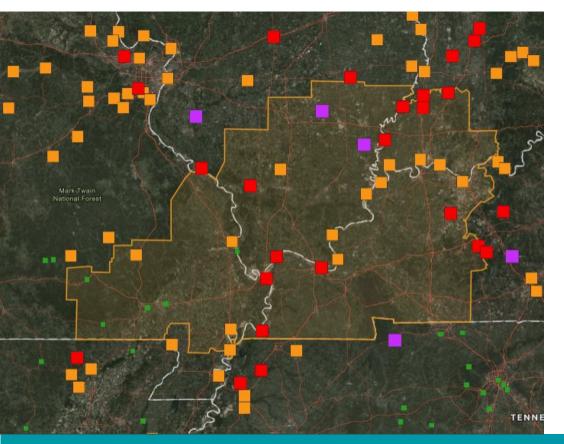
50% chance or greater moderate flooding

50% chance or greater minor flooding

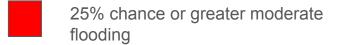
No flooding



## Spring Flood Outlook 2025 - 25%





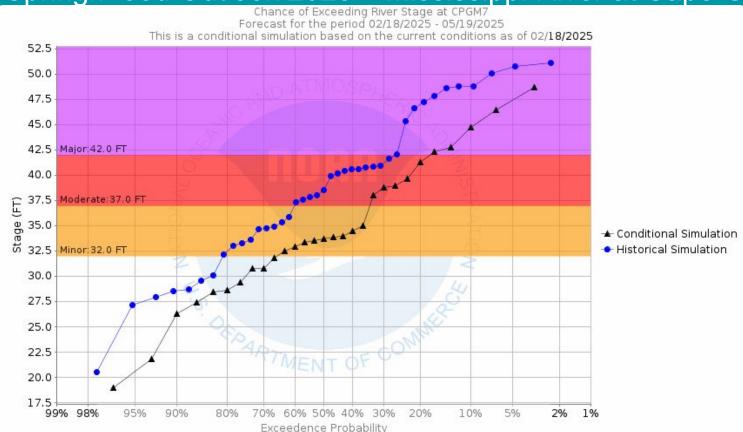








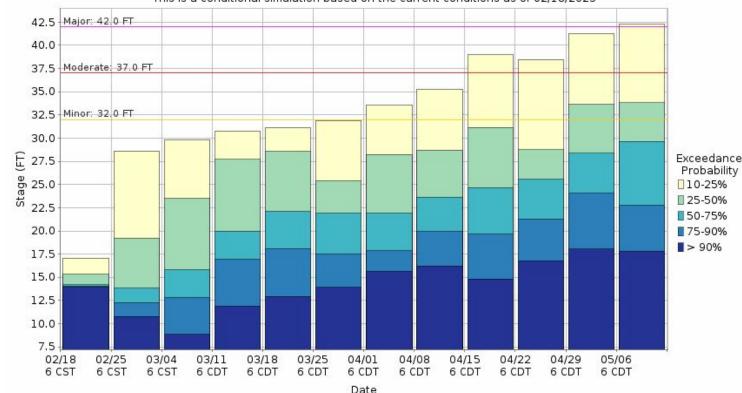
## Spring Flood Outlook 2025 - Mississippi River at Cape Girardeau, MO



The conditional simulation (for this year) is to the right of the historical simulation - less chance for flooding.

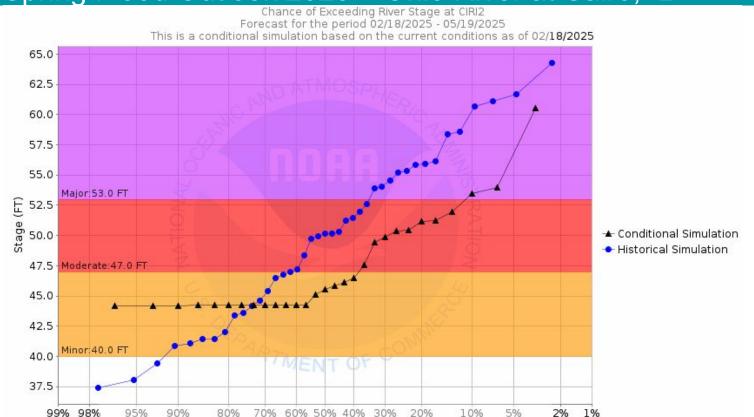
## Spring Flood Outlook 2025 - Mississippi River at Cape Girardeau, MO

Weekly Chance of Exceeding River Stage at CPGM7 Forecast for the period 02/18/2025 - 05/19/2025 This is a conditional simulation based on the current conditions as of 02/18/2025



Our chance for flooding increases through the spring but it is a small chance.

## Spring Flood Outlook 2025 - Ohio River at Cairo, IL

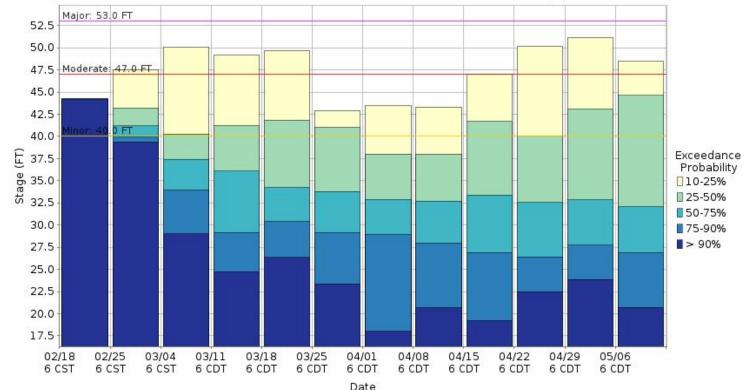


Exceedence Probability

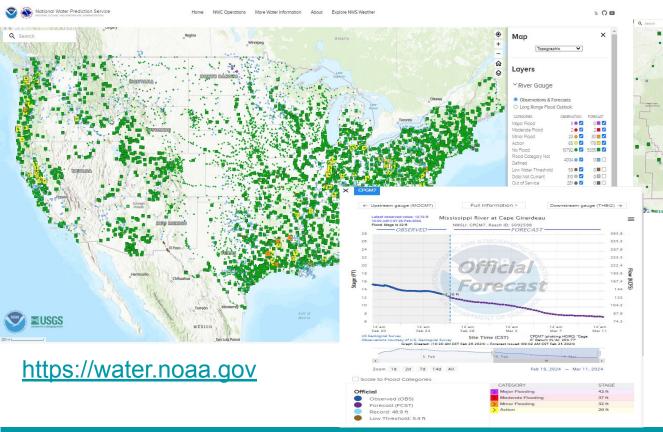
The flat line shows the river is already flooding but the overall outlook for the next 90 days is for a below normal chance for flooding.

## Spring Flood Outlook 2025 - Ohio River at Cairo, IL

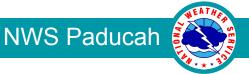
Weekly Chance of Exceeding River Stage at CIRI2 Forecast for the period 02/18/2025 - 05/19/2025 This is a conditional simulation based on the current conditions as of 02/18/2025



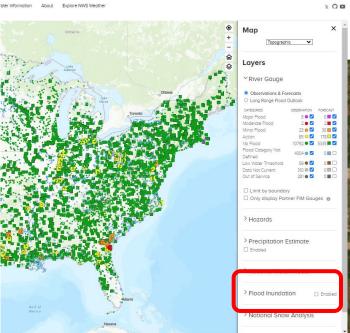
## National Water Prediction Service - Replaced AHPS May 2024



If you have any questions about the new website, please contact me at mary.lamm@noaa.gov



## Flood Inundation Mapping Services - Went live September 2024



Check "Enabled" and then click the side arrow to expand the menu.

There are 3 types of dynamic FIM available. Please excuse the levee layer. It is a mess but is being worked on.



Please send me any questions you have!



# Questions???

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270-744-0321, ext. 493

