

# Rare and Dangerous Weather Pattern

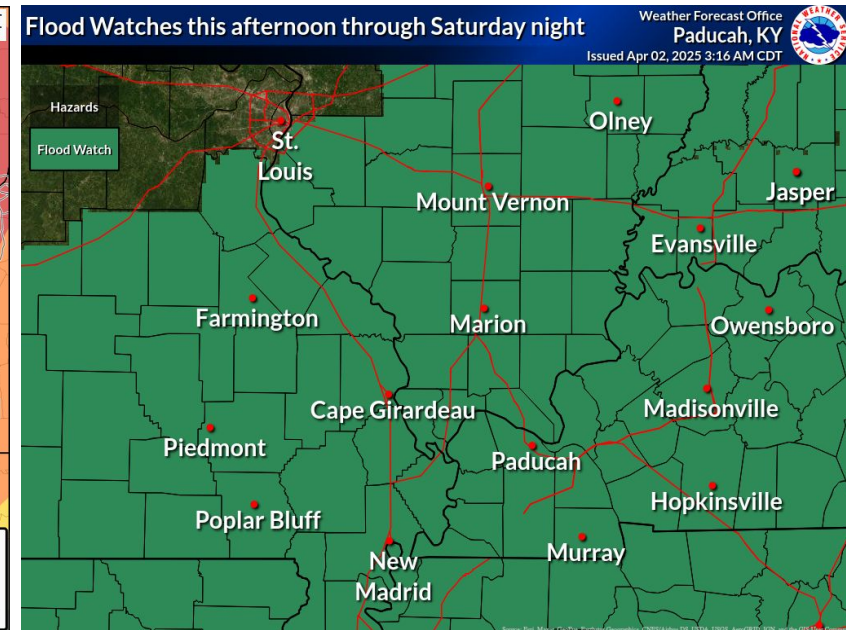
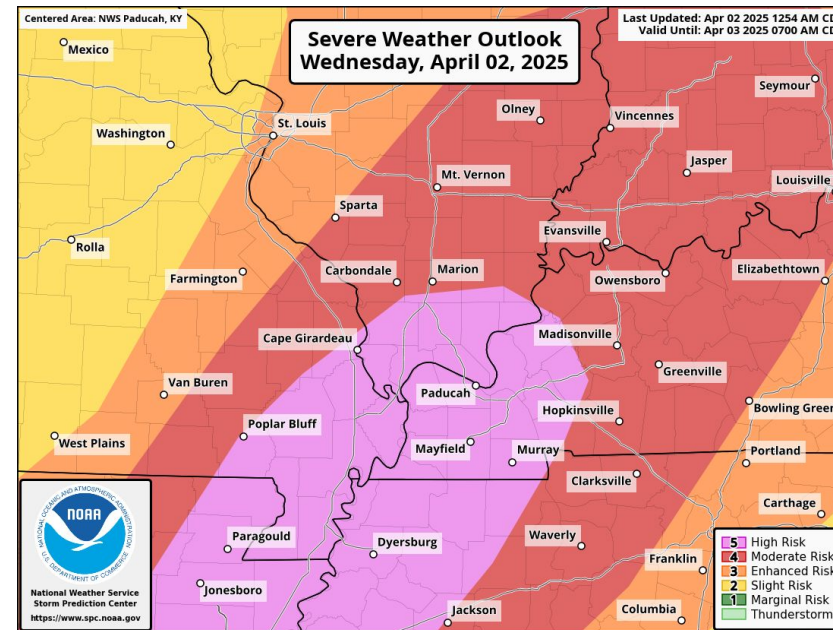
## Dangerous Severe Weather and Potentially Catastrophic Flooding

April 2, 2025

5:08 AM

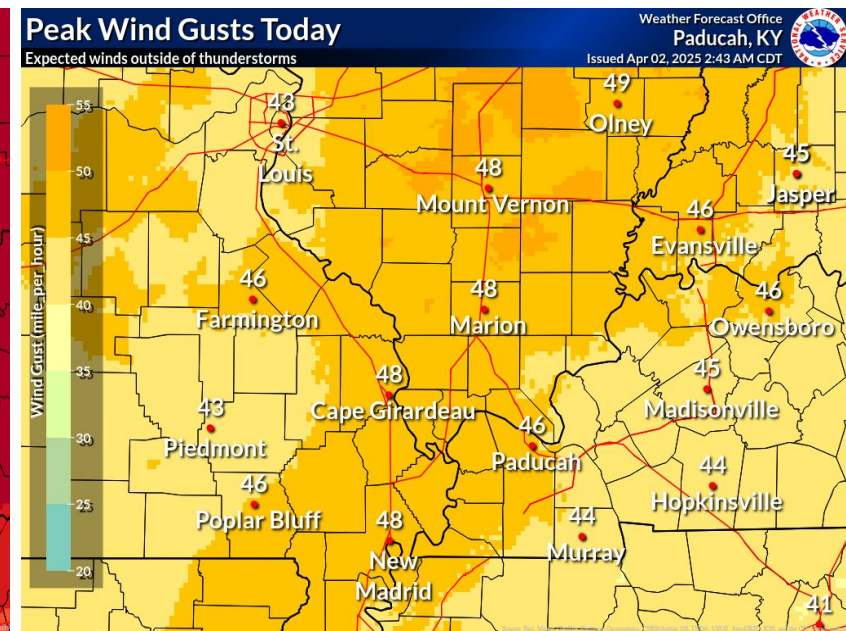
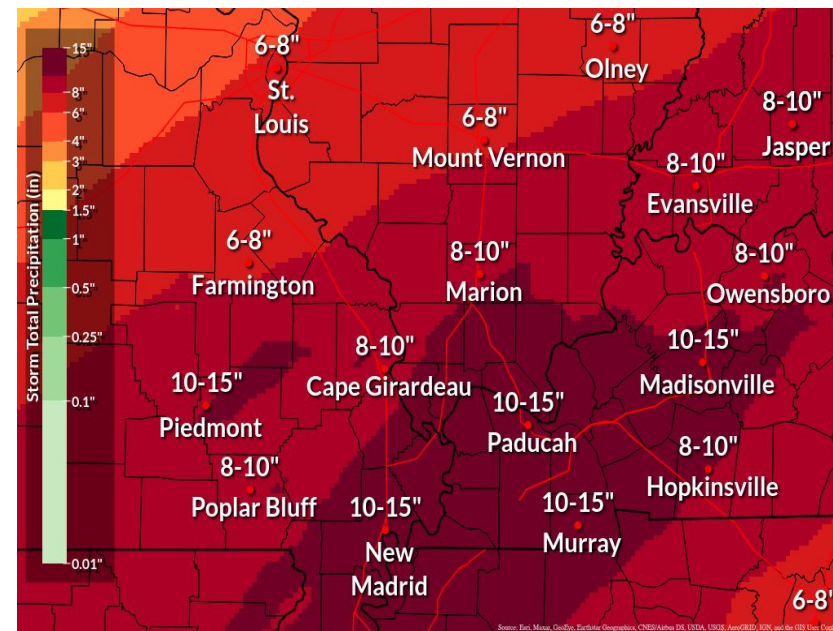
### Key Messages:

- A **very active, very dangerous weather pattern** is setting up today and will continue into the weekend.
- A portion of the region is now in a **High Risk** (Level 5 of 5) of Severe Thunderstorms this afternoon/tonight.
- A severe risk will linger through Saturday.
- Dangerous and potentially historic rainfall will begin this afternoon, with numerous rounds of heavy rain continuing into Saturday night, leading to potentially catastrophic flash flooding.



### What Can You Do?

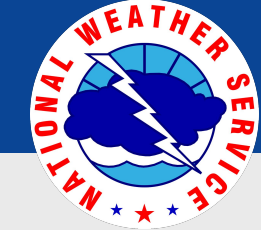
- Go over your severe weather plans and where to take shelter
- Prepare for heavy rain impacts by clearing drainages, and moving sensitive property
- Have a plan to move to higher ground if needed



**Next Update:** by 5pm Today





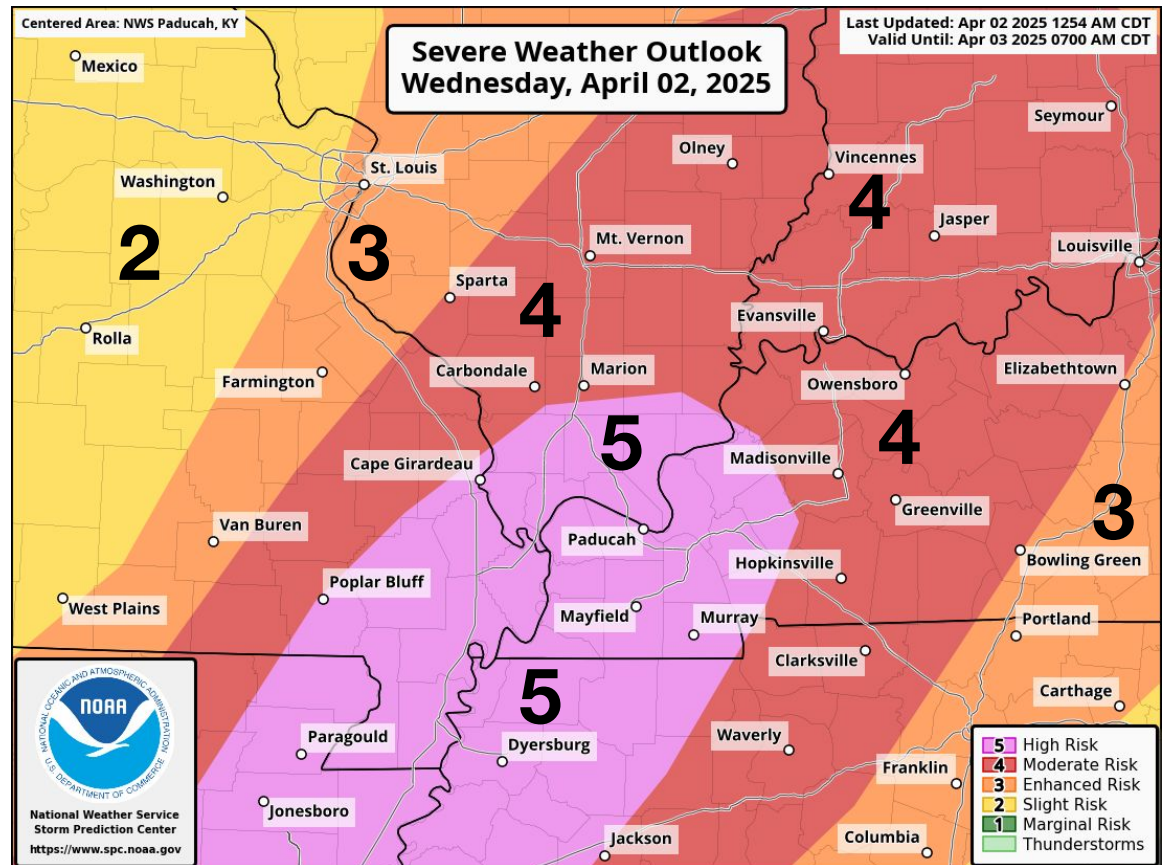
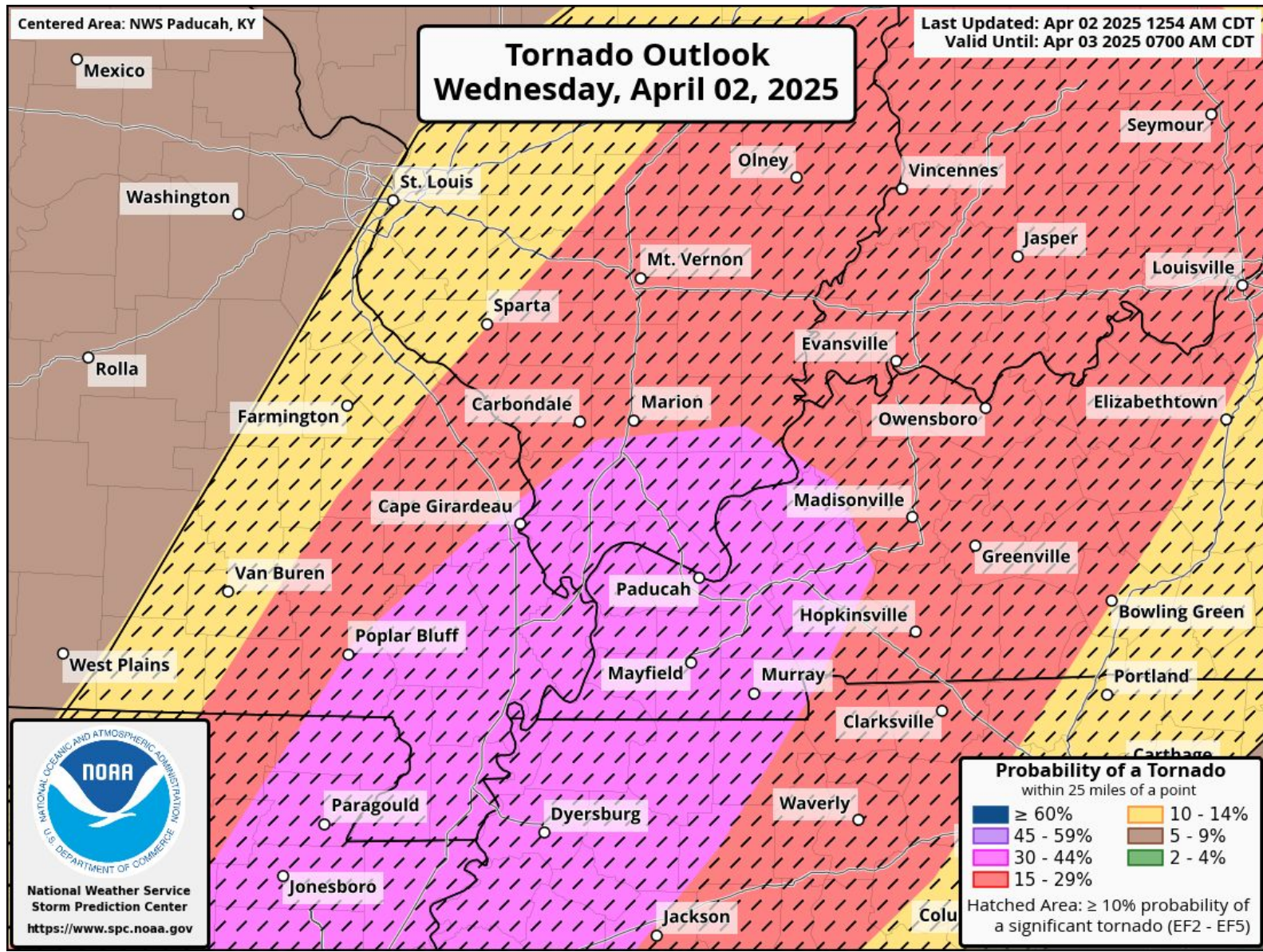


# Severe Thunderstorm Risk this Afternoon and Tonight

April 2, 2025  
5:08 AM

## Level 5 of 5 (High Risk)

- **A significant severe weather outbreak is expected this afternoon and tonight!**
- Much of the region is now in a **High Risk** for severe weather, with the rest of the region in a Moderate Risk.
- All severe weather threats will be possible, including large to very large hail, widespread damaging winds and strong (EF-2 or higher), long track tornadoes.



**Black Hatching Indicates a 10% or Greater Risk of a Significant Tornado**



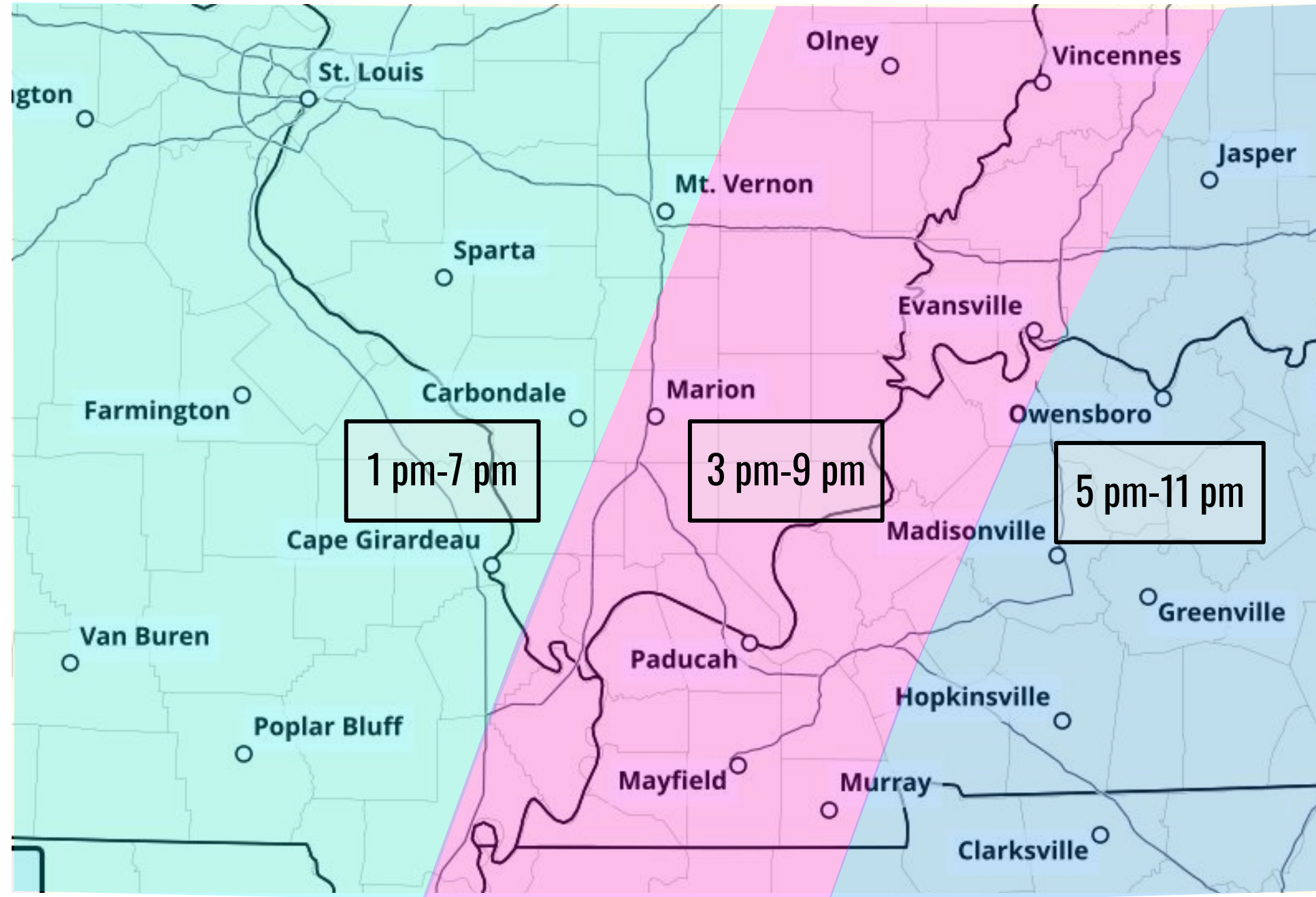




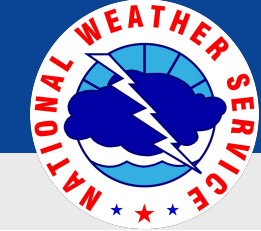
# Severe Thunderstorm Risk Timing this afternoon and tonight

April 2, 2025  
5:08 AM

- **This is estimated timing information for severe thunderstorms this afternoon into tonight.**
- Isolated thunderstorms are possible by midday, but storms will start rapidly developing around or after 2pm.
- Storm movement will be very fast, moving northeast at 60 to 70 mph.
- **If a warning is issued for your location, do not wait to take cover until you see the storm!**
- Take cover quickly. The fast movement of the storms will give you little time to take action.





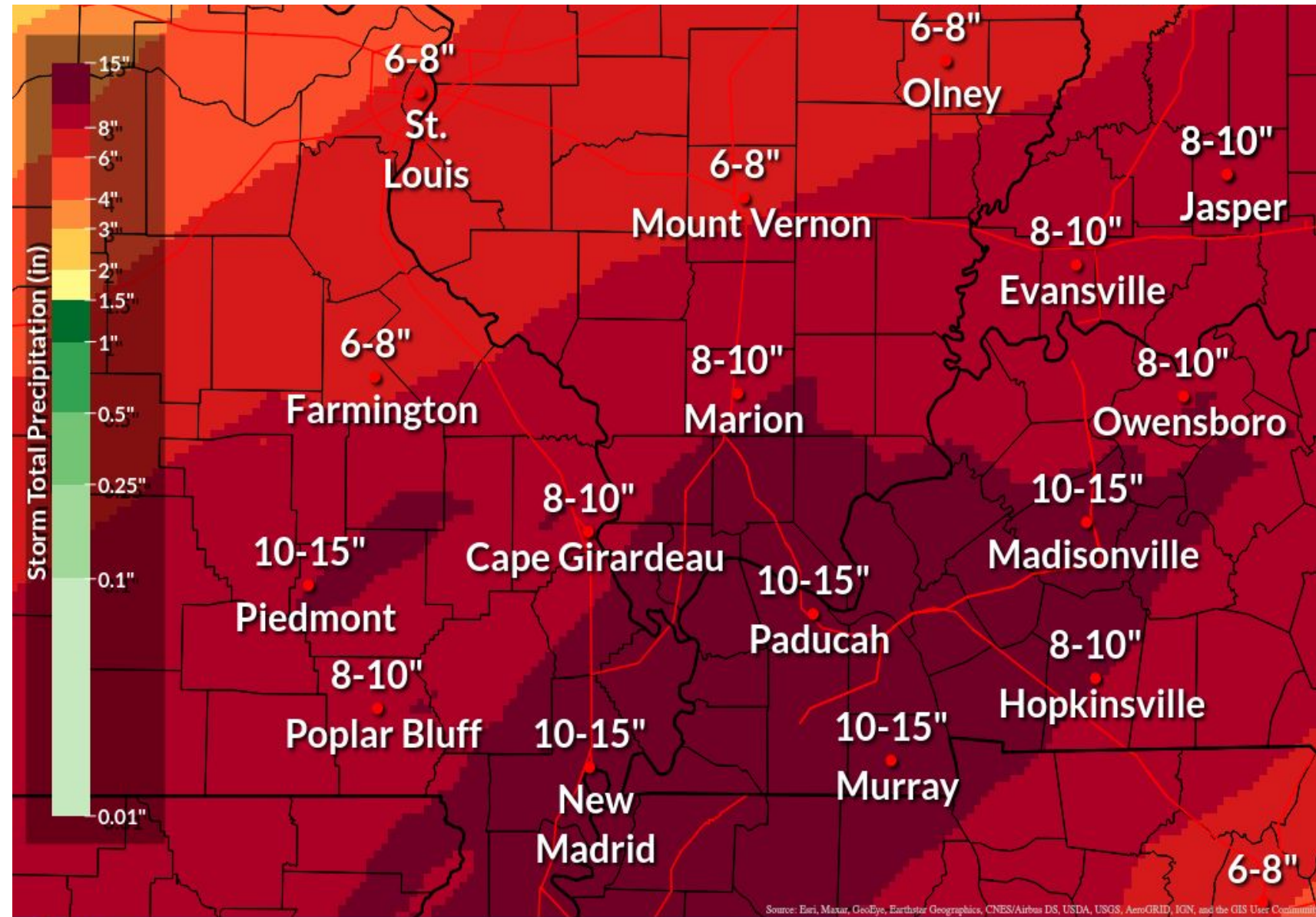


# Current Forecast Rainfall Totals this afternoon through Saturday Night

April 2, 2025  
5:08 AM

## Widespread Significant and Potentially Catastrophic Flooding and Flash Flooding is Expected!

- Confidence remains **high** in a prolonged period of heavy rainfall this afternoon through Saturday night.
- Numerous rounds of heavy showers and thunderstorms will produce multiple inches of rainfall through the period. **The entire Quad State is expected from this afternoon through Saturday night to receive at least 7-10", with 10-12" likely over much of west Kentucky, southeast Missouri, and extreme southern Illinois.** Isolated higher amounts are possible.
- **Significant and potentially life-threatening flash flooding is expected.** River flooding will also develop across many area rivers.
- These amounts will cause flooding of areas that **do not normally flood**, and that may have never flooded before.
- Impacts from this event will be significant, and may be historic.
- Continue to monitor the latest forecasts and briefings for updates.







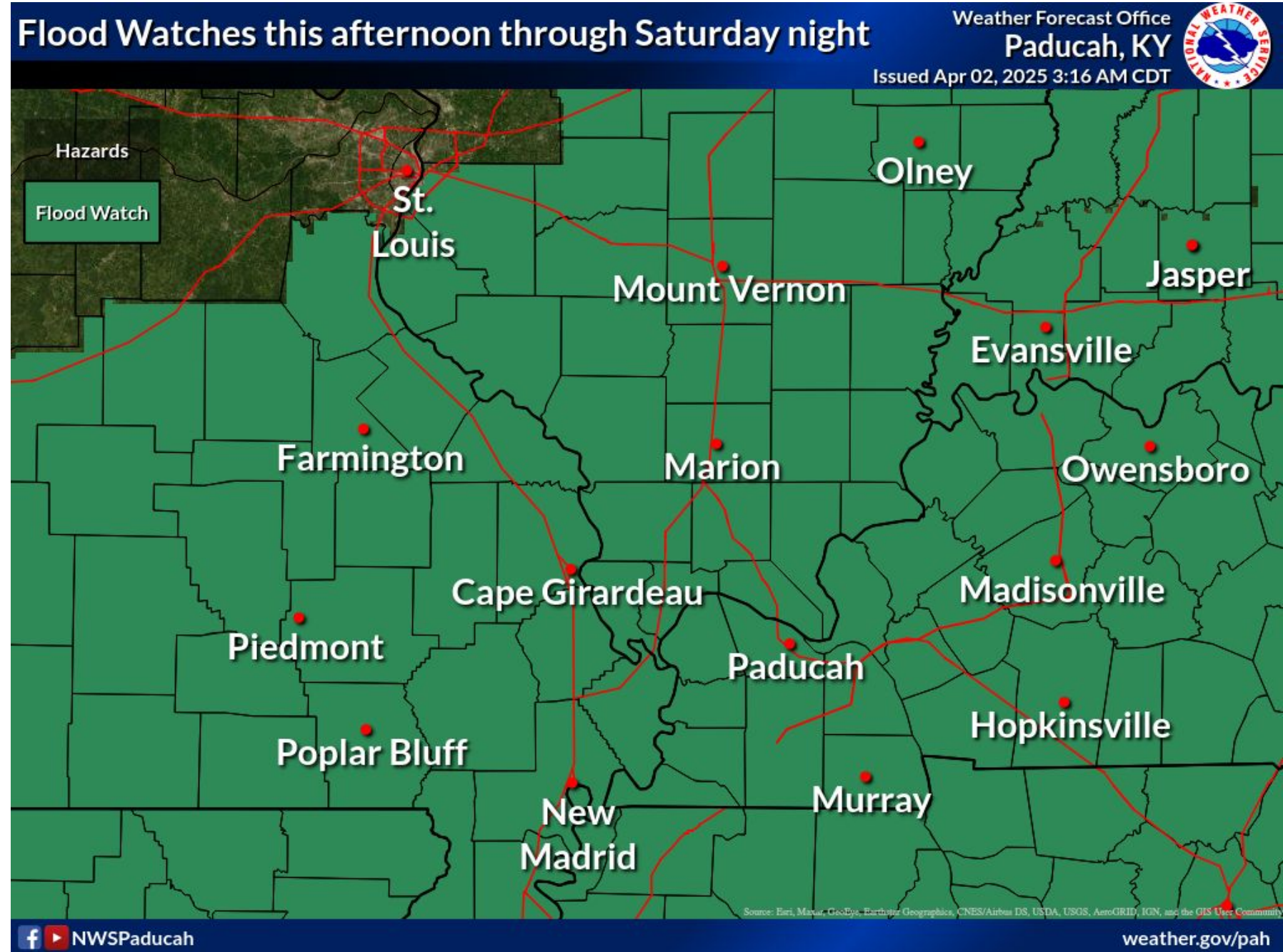
# Flood Watches Across the Region

## In Effect through Saturday Night

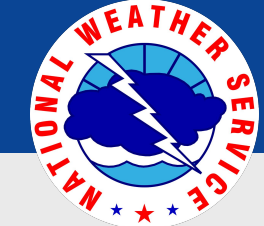
April 2, 2025

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- Flood Watches are in effect for this afternoon/evening through Saturday night.
- **This is a particularly dangerous situation.** Widespread and dangerous flooding is expected across our region.
- Continue to monitor forecasts and be prepared to change travel plans.





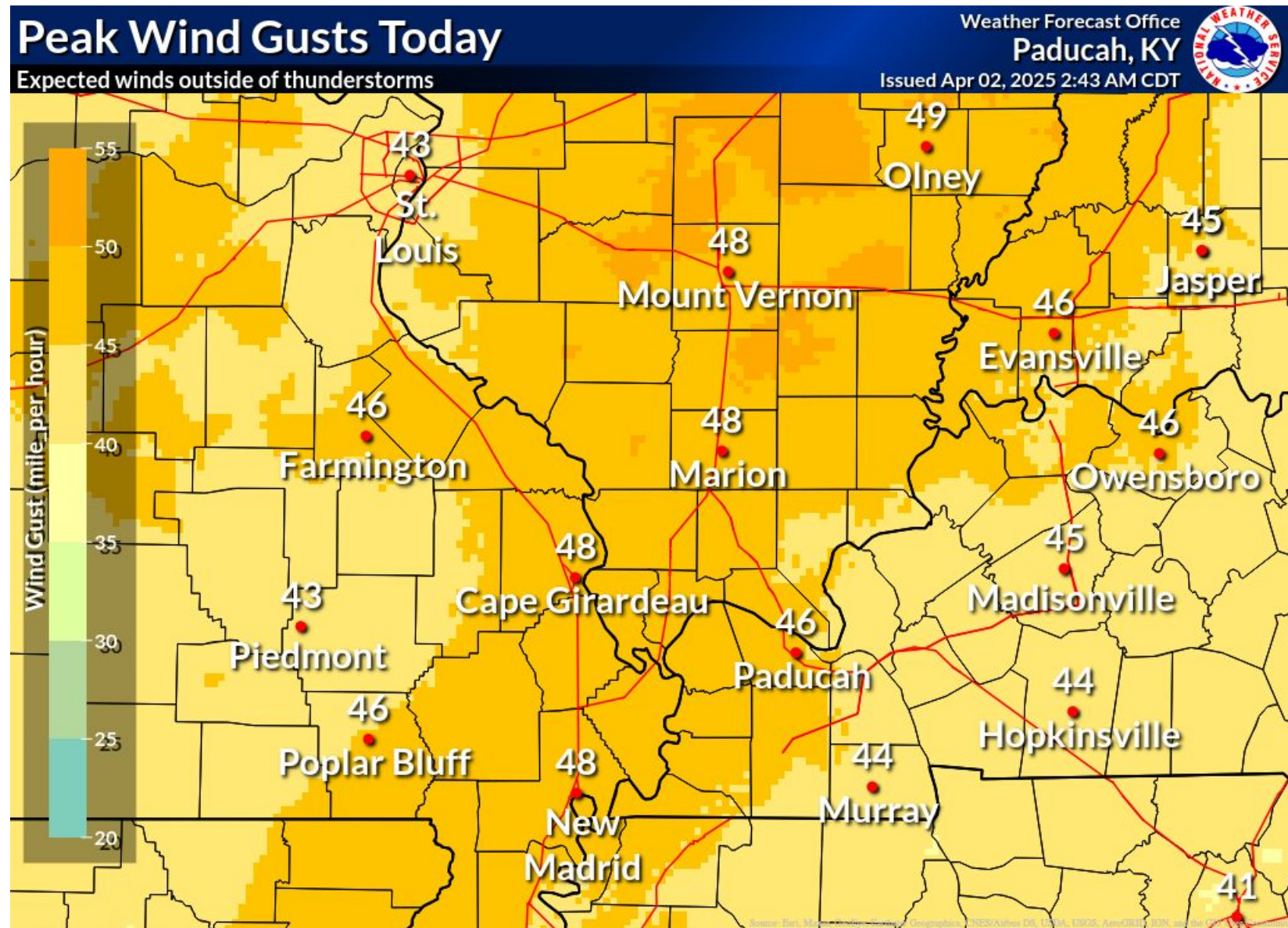
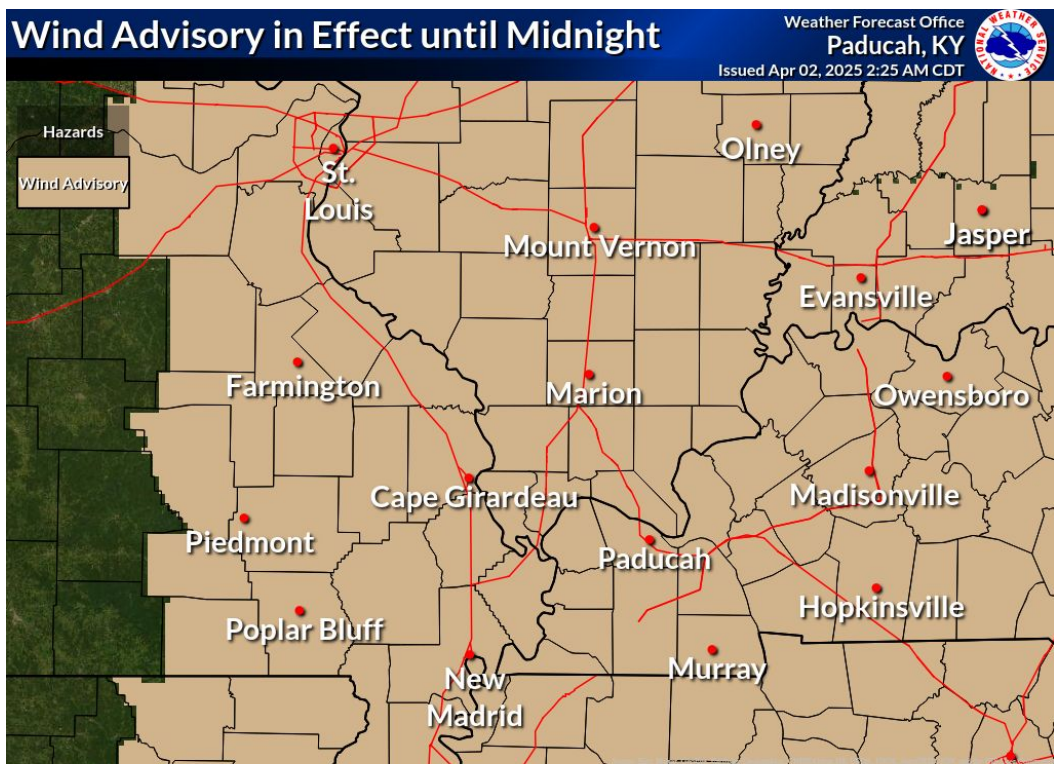


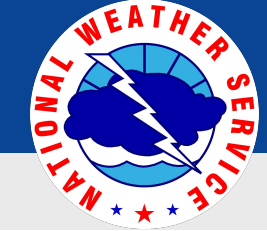
# Windy Conditions Today

April 2, 2025  
5:08 AM

## Highest wind gusts expected from late morning through the afternoon

- South winds will increase today ahead of an approaching cold front.
- Sustained winds of 20 to 30 mph with gusts up to around 45 mph to possibly 55 mph are expected.
- These are expected winds outside of thunderstorms.
- Store or secure loose items, and be prepared for difficult driving conditions, especially in high profile vehicles on east-west roads.





# Daily summary of weather concerns today through Saturday

April 2, 2025

5:08 AM

**Expect multiple hours with at least some tornado and severe thunderstorm threat, and ongoing flooding, from this afternoon through Saturday night.**

**Even when the rain finally ends late Saturday night, flooding will continue, possibly for many days or longer.**

**It is crucial to stay aware of the weather the next several days! Be prepared to take action if needed!.**

## **This afternoon and tonight**

- Tornado/severe thunderstorm threat from 1pm-11pm
- Start of flash flood threat by tonight
- Wind gusts of 40 to near 50 mph not associated with thunderstorms through midnight

## **Thursday**

- Some severe threat persists in the southeast - dependent on where the cold front settles
- Flash flooding probable or ongoing

## **Friday**

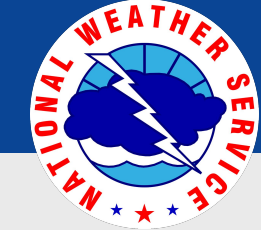
- Front shifts north, severe thunderstorm threat increases, especially Friday night
- Flash flooding will almost certainly be ongoing, and areas may have received up to 6-8 inches of rain by Friday evening

## **Saturday**

- Big upper storm system pushes through, severe risk continues
- Likely the highest flood and flash flood impacts by this point
- Potentially catastrophic/historic flooding



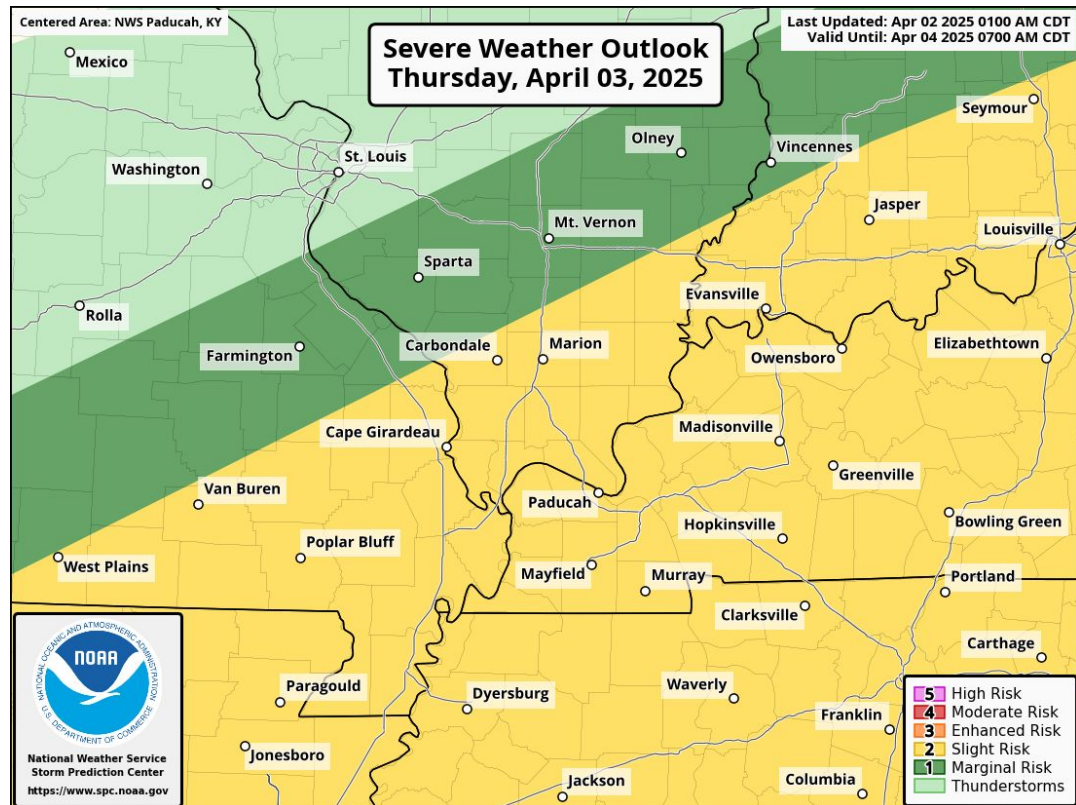




# Severe Thunderstorm Risk *after* Today/Tonight

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5:08 AM

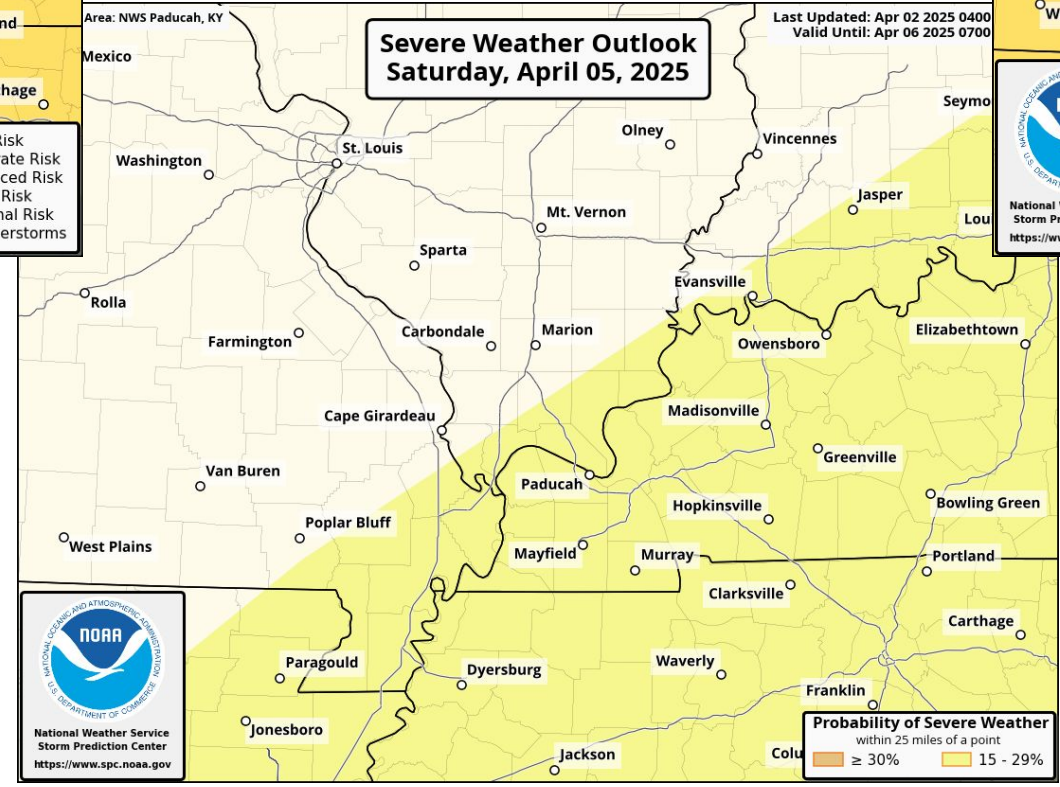
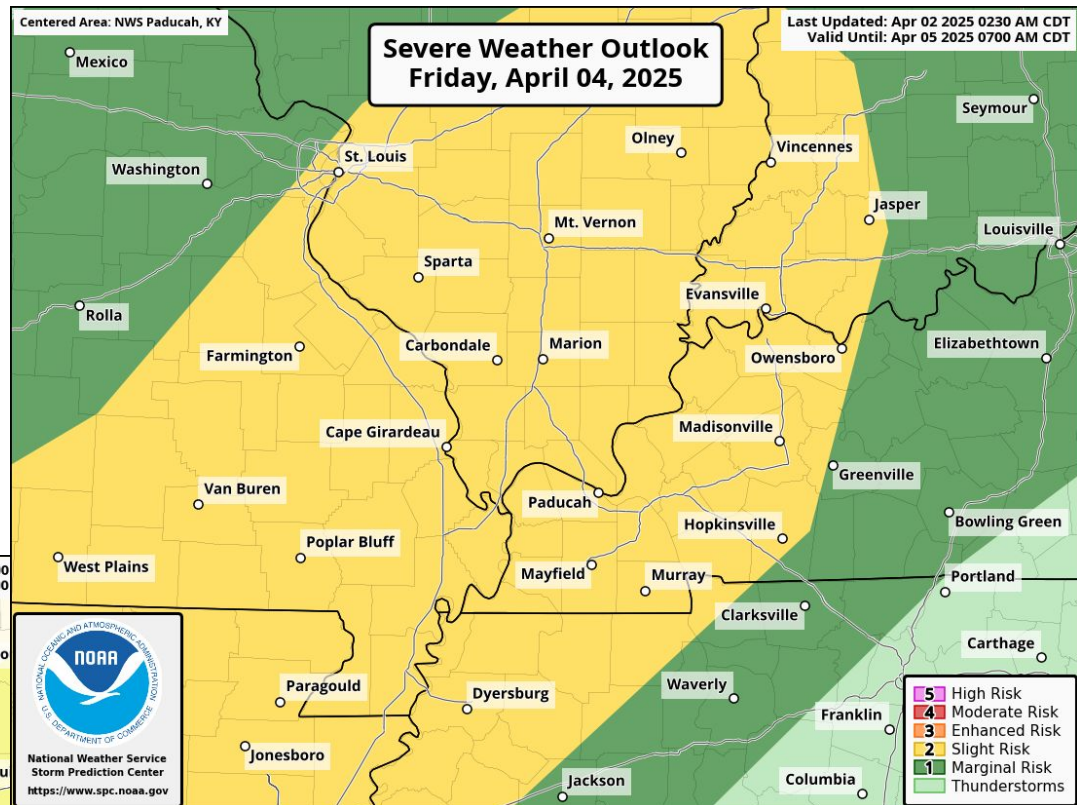
## Multiple days with potential for severe thunderstorms



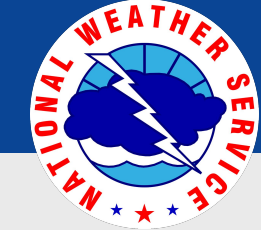
← Thursday

Friday →

Saturday





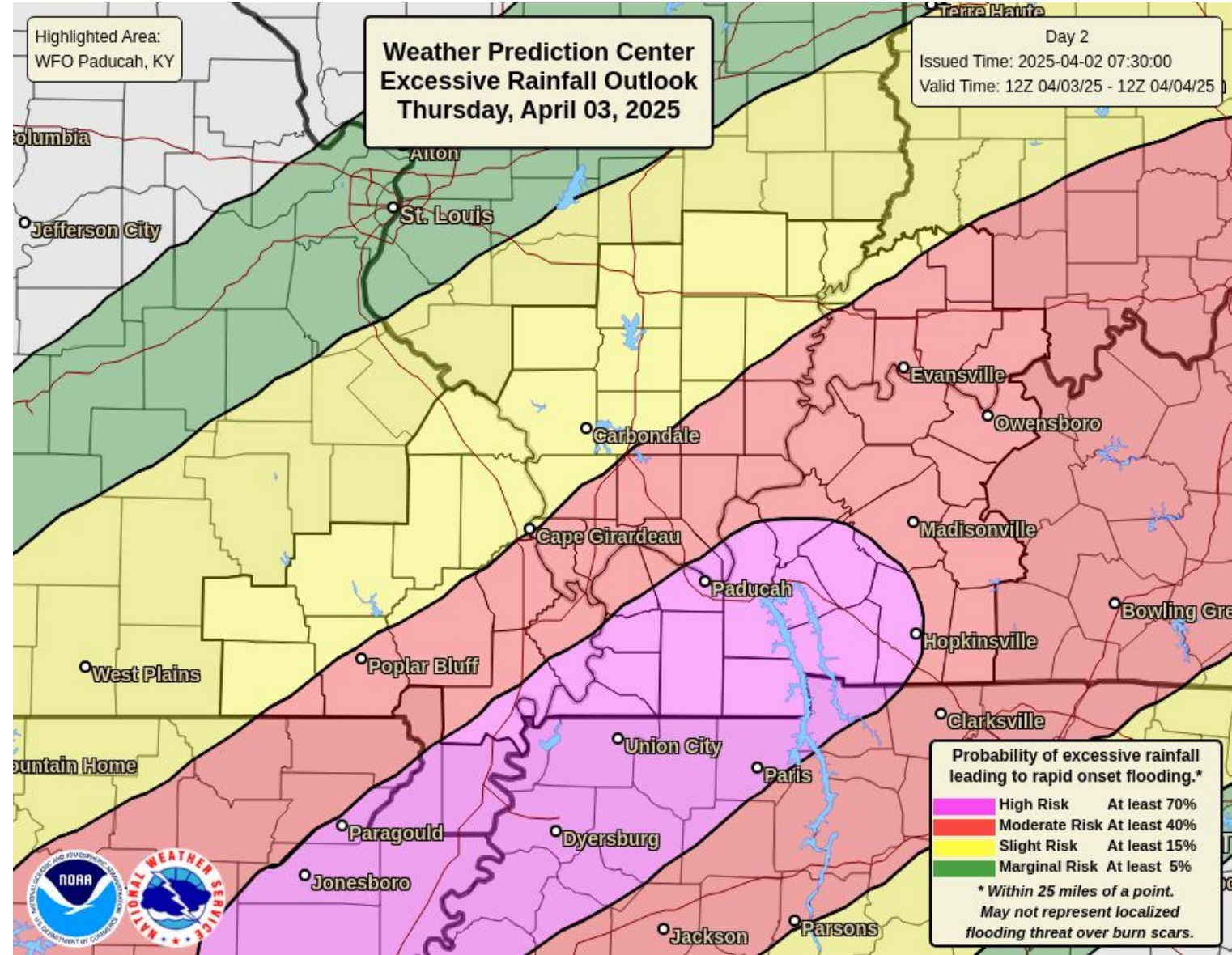


# Excessive Rainfall Outlook Thursday and Friday

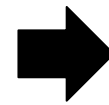
## Level 4 of 4 (High)

April 2, 2025  
5:08 AM

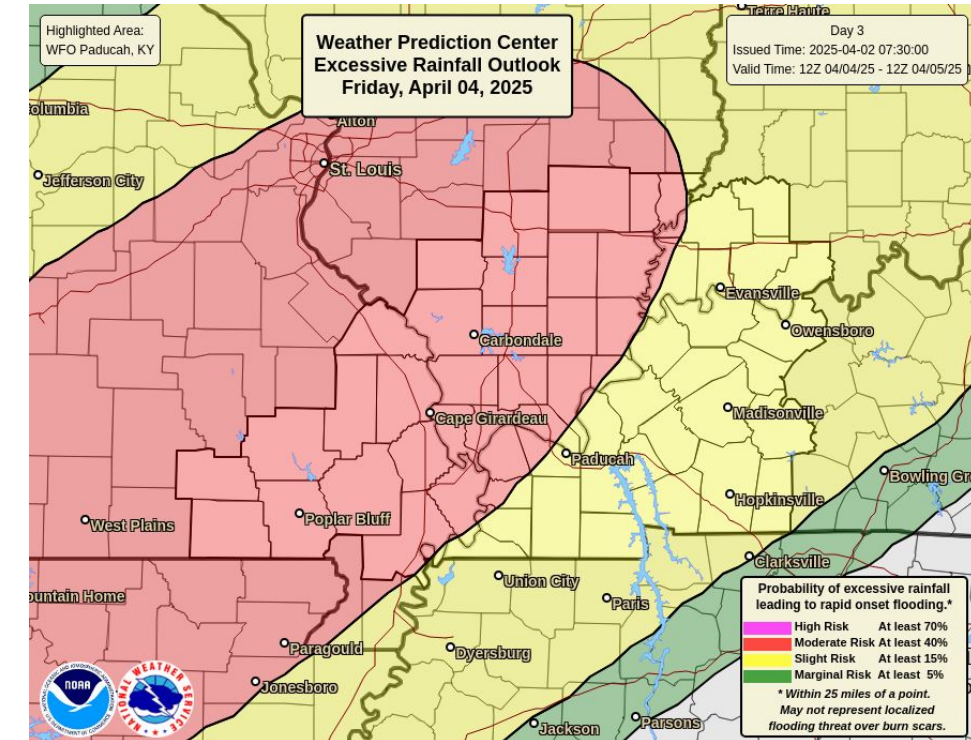
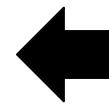
- A frontal boundary draped across our region will be the focus for rounds of heavy rainfall Wednesday afternoon and night.
- Much of our region is included in the Day 2 Moderate to High Risk of Excessive Rainfall
- Rainfall totals by late Thursday night may already be 3 to 7 inches along and south of the Ohio River and in extreme southeast Missouri.
- Significant impacts may already begin by late tonight, and especially by Thursday night.



Thursday Outlook



Friday Outlook



National Oceanic and Atmospheric Administration

U.S. Department of Commerce

National Weather Service  
Paducah, KY



# High Risk (HIGH)

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*Widespread severe storms expected*

Long-lived, very widespread and particularly intense.

Tornado Outbreak and/or Derecho.



\*NWS defines a severe thunderstorm as measured wind gusts to at least 58 mph, and/or hail to at least one inch in diameter, and/or a tornado. All thunderstorm categories imply lightning and the potential for flooding. Categories are also tied to the probability of a severe weather event within 25 miles of your location.



National Weather Service - [weather.gov/desmoines](https://weather.gov/desmoines) - [spc.noaa.gov](https://spc.noaa.gov)



# Tornado Sheltering Guidelines

Seek the best available refuge area **immediately** when a Tornado Warning is issued.  
Your chance of surviving a tornado is excellent if you follow these guidelines.

## WORST OPTIONS

Mobile homes  
Vehicles  
Underneath a  
highway overpass

## BAD OPTIONS

Large open rooms  
like gymnasiums  
Manufactured housing

## GOOD OPTIONS

Interior room  
of a well-constructed  
home or building  
Basement

## BEST OPTIONS

Above or below ground  
Tornado Storm Shelter  
(NSSA/ICC 500 compliant)\*  
Specifically-designed  
FEMA Safe Room\*


Find another option

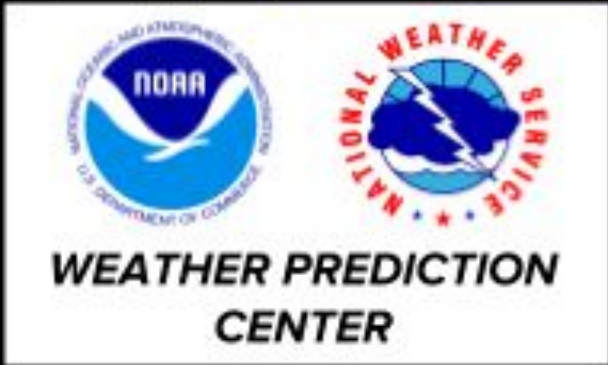


Stay in place until all clear



# Understanding WPC Excessive Rainfall Risk Categories

<p><b>No Area/Label</b></p> <p>Flash floods are generally not expected.</p> <p><a href="http://www.wpc.ncep.noaa.gov">www.wpc.ncep.noaa.gov</a> @NWSWPC</p>	<p><b>MARGINAL (MRGL)</b></p> <p><b>Isolated flash floods possible</b></p> <p>Localized and primarily affecting places that can experience rapid runoff with heavy rainfall.</p>	<p><b>SLIGHT (SLGT)</b></p> <p><b>Scattered flash floods possible</b></p> <p>Mainly localized. Most vulnerable are urban areas, roads, small streams and washes. Isolated significant flash floods possible.</p>	<p><b>MODERATE (MDT)</b></p> <p><b>Numerous flash floods likely</b></p> <p>Numerous flash flooding events with significant events possible. Many streams may flood, potentially affecting larger rivers.</p>	<p> <b>HIGH (HIGH)</b></p> <p><b>Widespread flash floods expected</b></p> <p>Severe, widespread flash flooding. Areas that don't normally experience flash flooding, could. Lives and property in greater danger.</p>
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# FLOOD WARNING

A Flood Warning is issued when flooding is **happening** or will happen soon. Some roads will be **flooded**.

**Move** to higher ground.

**Never drive** through flooded roads.

**take action.**

# FLOOD WATCH

A Flood Watch is issued when flooding is possible.

Stay tuned to radio/TV, follow **weather.gov** and be ready to seek higher ground.

Learn more at **weather.gov/flood**.

**be prepared.**

