



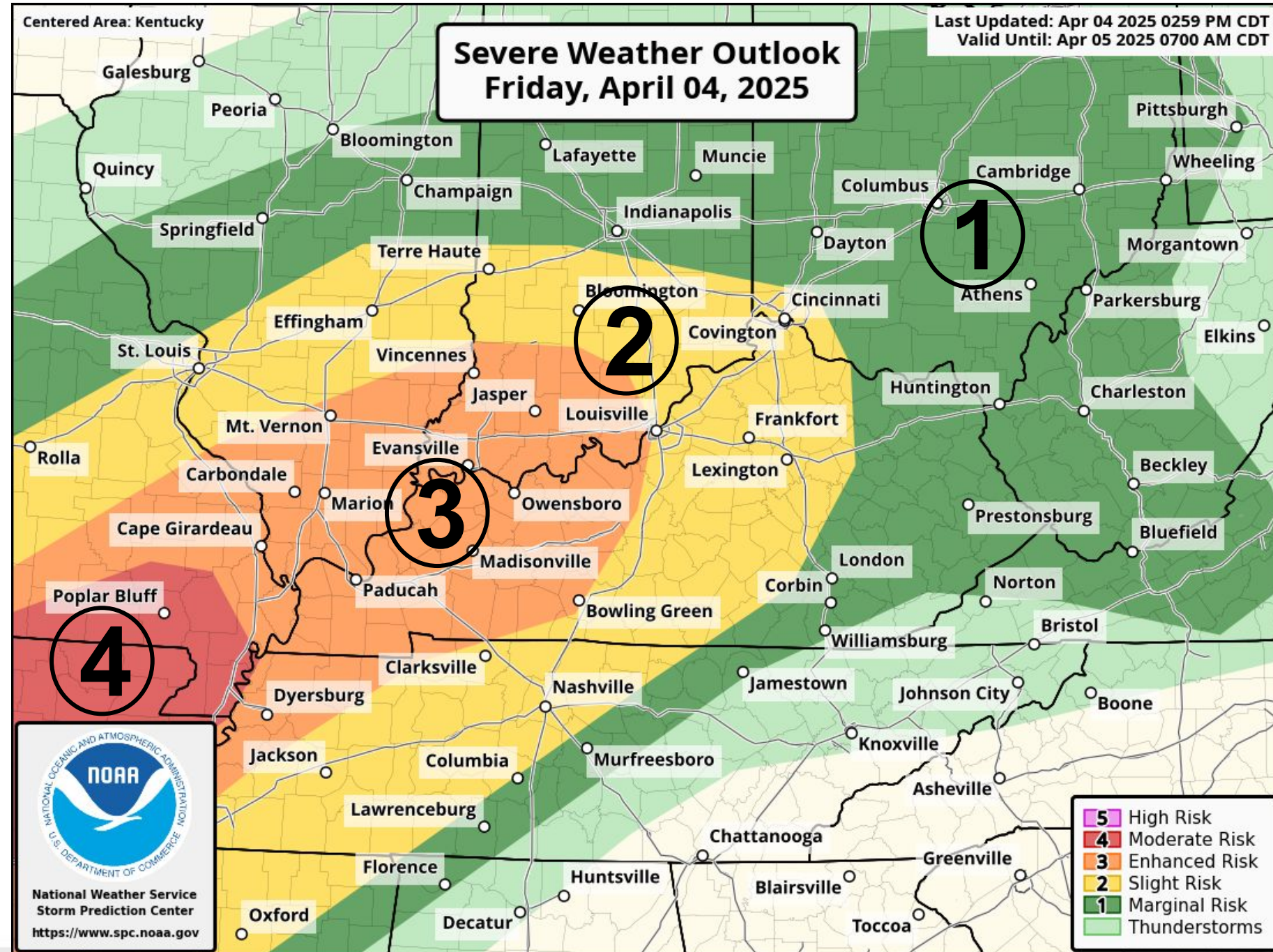
Severe Storm Potential Tonight

April 4, 2025
5:15 PM

Key Messages

- Waves of showers and storms will ride along a stalled frontal boundary
- Main threat is west of I-65, where an isolated damaging wind gust, brief tornado, or instance of large hail will be possible
- Most likely timing for severe weather:
 - ◆ Southern Indiana: 10 PM to 2 AM EDT
 - ◆ Central Kentucky: Two Waves
 - 5 PM to 9 PM EDT
 - Midnight to 7 AM EDT

Confidence in Severe Storms



National Weather Service
Louisville, KY



Tornado Probabilities

April 4, 2025
5:15 PM

This Evening into Tonight

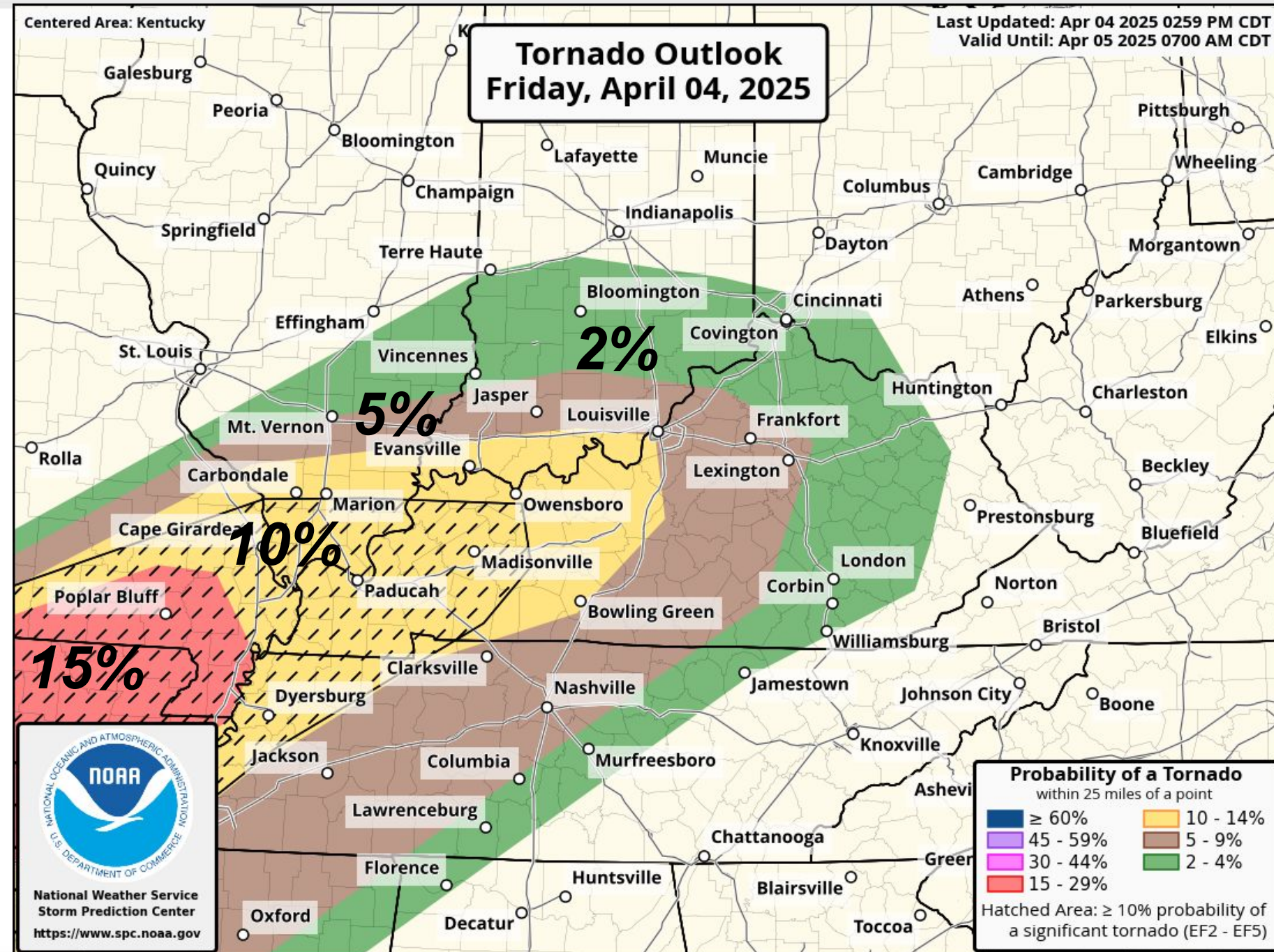
Key Messages

- Isolated tornadoes forecast
- Highest chances for a tornado are in southwest Indiana and western Kentucky

What You Can Do

- Have a plan for when warnings are issued for your area! Make sure you have multiple ways to receive warnings, do not rely on outdoor sirens!
- Know where to shelter at home or work.

Confidence in Tornadoes



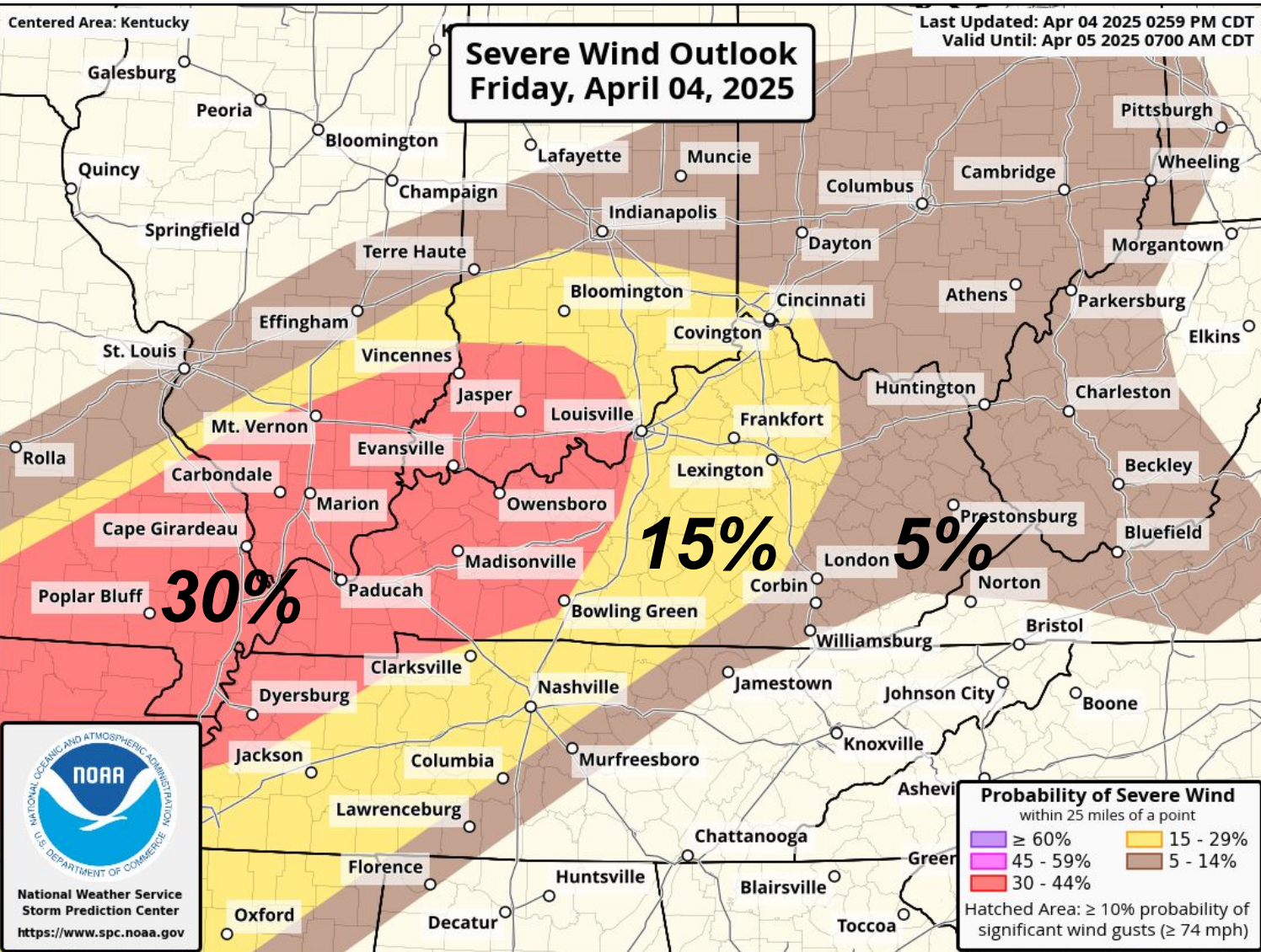


Severe Wind and Hail Probabilities

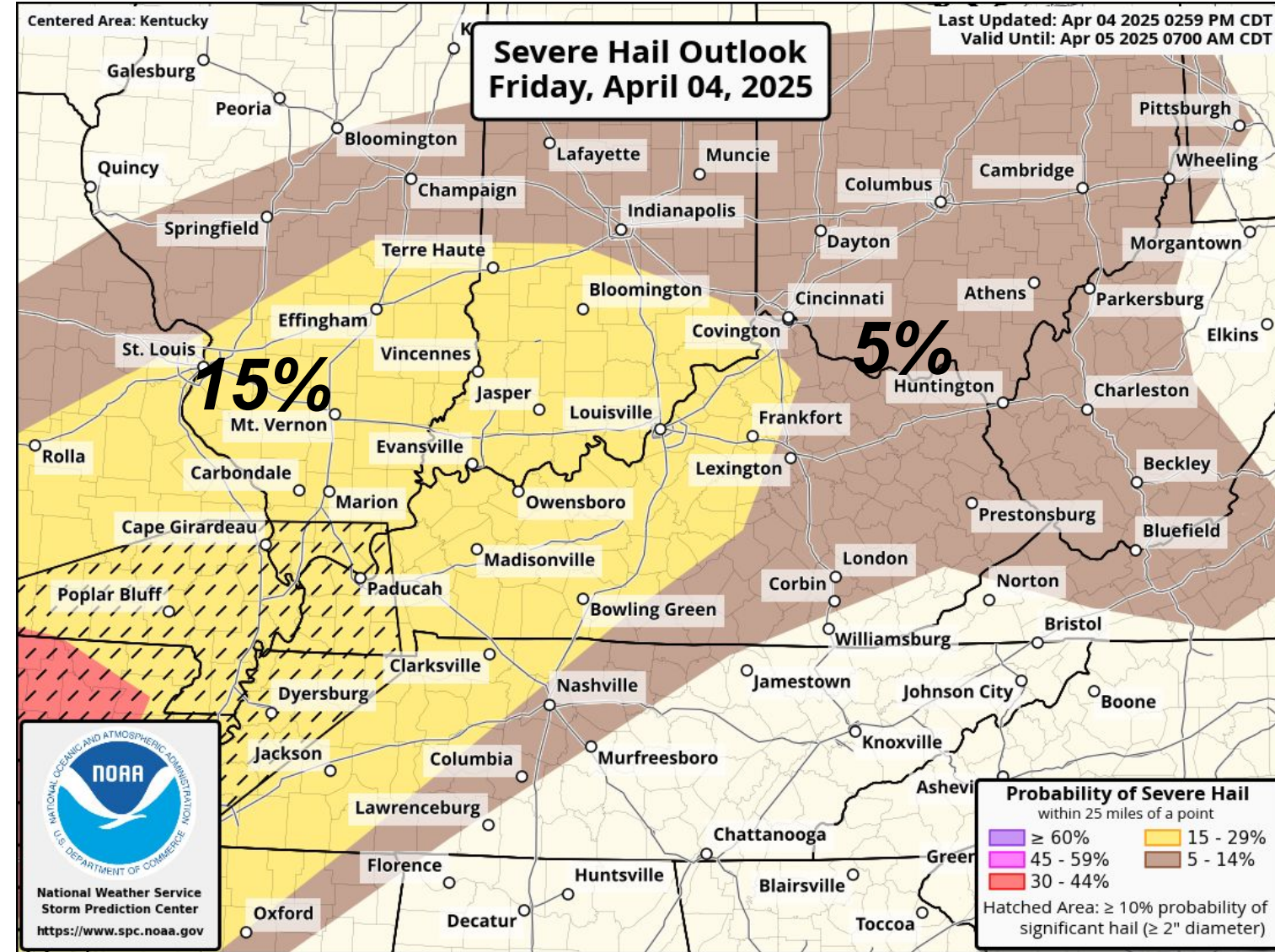
April 4, 2025
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This Evening into Tonight

Probability of Severe Straight-Line Winds (58+ mph)



Probability of Severe Hail (1" Diameter)



Hatched Area: ≥10% chance of 2+ inch diameter hail

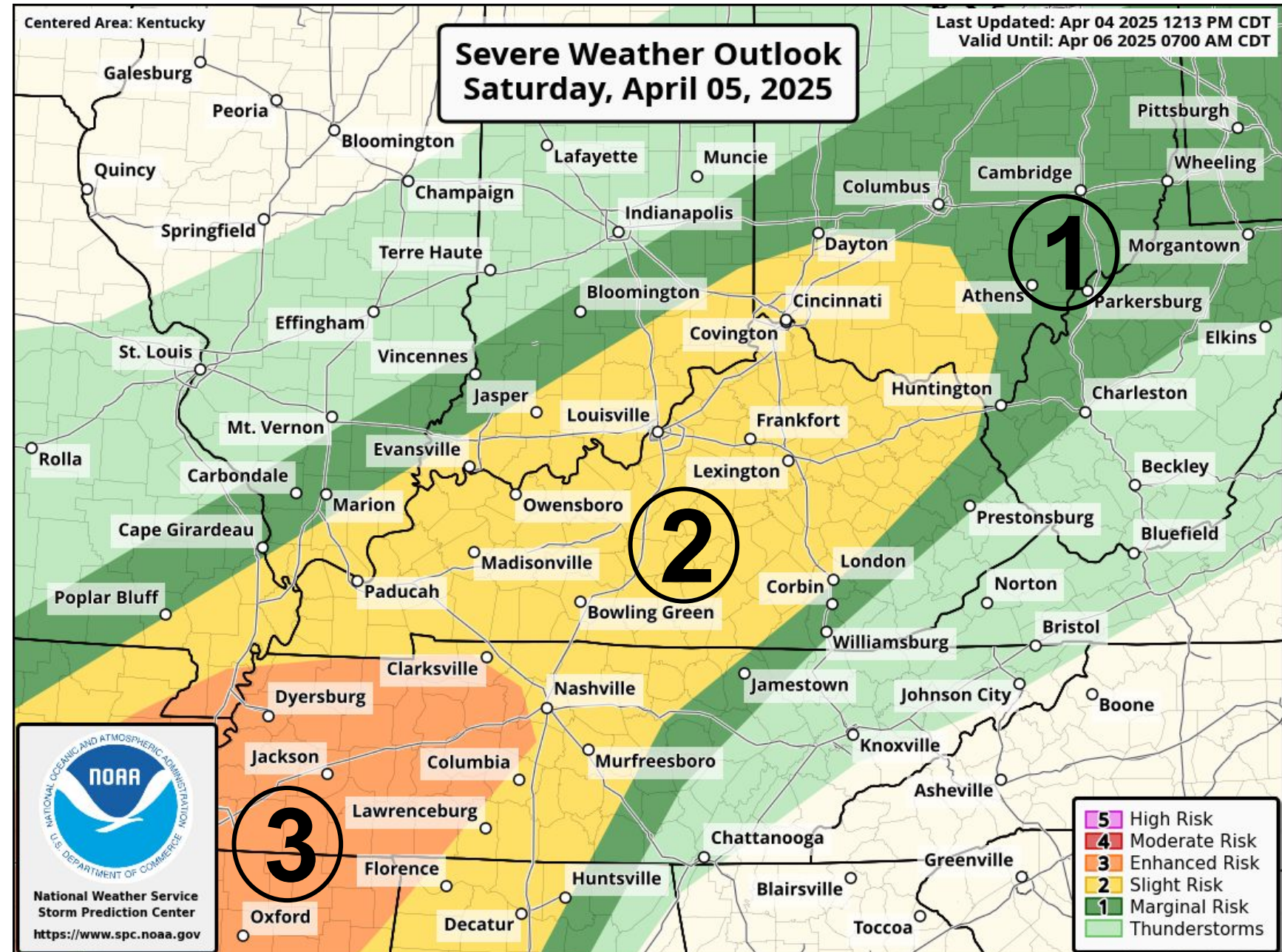


Severe Storm Potential Saturday

April 4, 2025
5:15 PM

Key Messages

- Additional waves of showers and storms will ride along a stalled frontal boundary
- Isolated instances of large hail, damaging winds, or a brief tornado are all possible
- Saturday afternoon and evening are the most likely times for severe weather



Confidence in Severe Storms



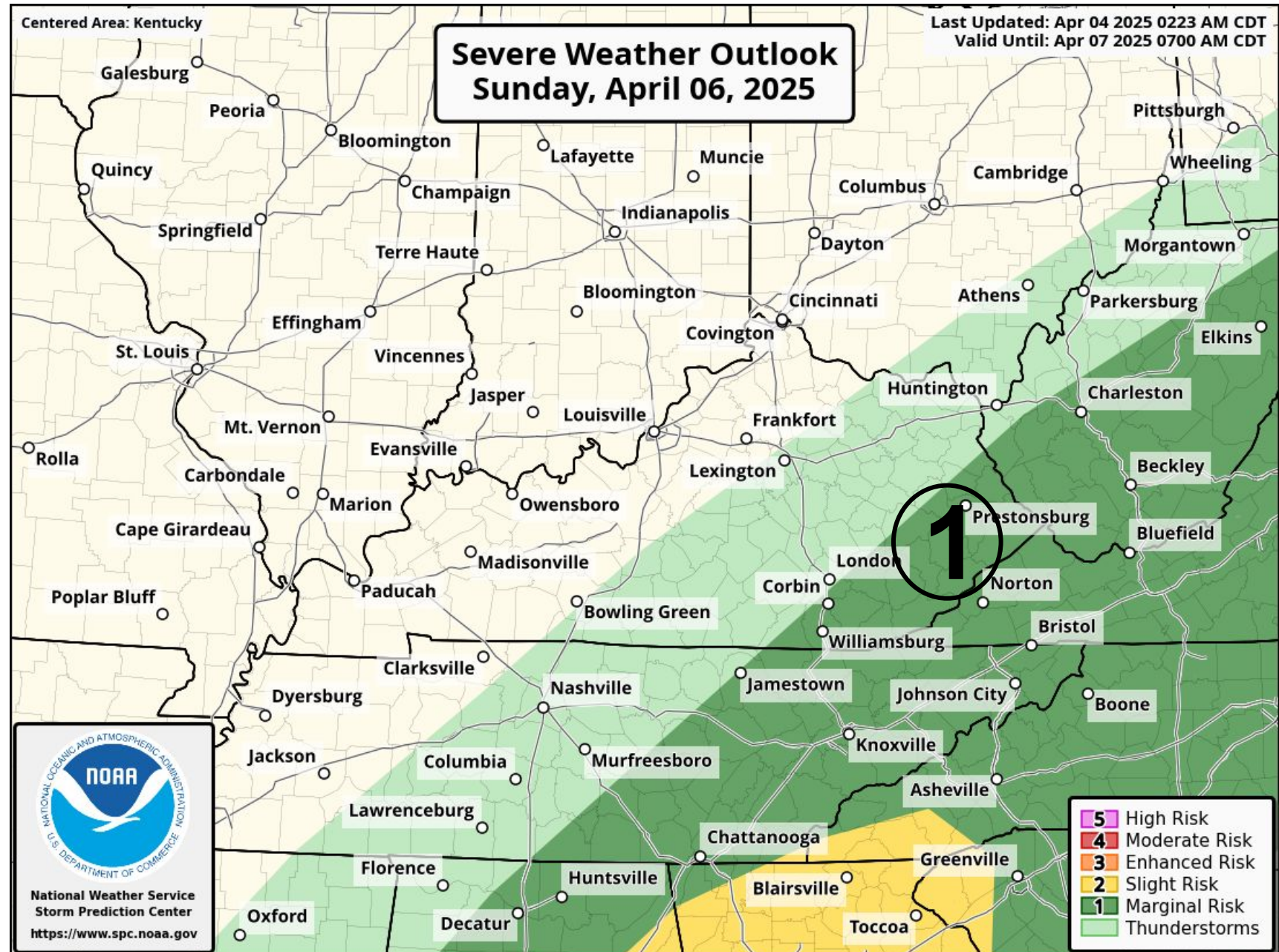


Severe Storm Potential Sunday

April 4, 2025
5:15 PM

Key Messages

- The final wave of showers and storms will be pushing east of Kentucky by Sunday morning
- Any severe weather should be confined to eastern Kentucky by this time, and confidence is low on any impacts at this time



Confidence in Severe Storms











Understanding SPC Outlook Categories

April 4, 2025
5:15 PM

Severe Weather Risks Defined

Understanding Severe Thunderstorm Risk Categories					
THUNDERSTORMS (no label)	1 - MARGINAL (MRGL)	2 - SLIGHT (SLGT)	3 - ENHANCED (ENH)	4 - MODERATE (MDT)	5 - HIGH (HIGH)
No severe* thunderstorms expected	Isolated severe thunderstorms possible	Scattered severe storms possible	Numerous severe storms possible	Widespread severe storms likely	Widespread severe storms expected
Lightning/flooding threats exist with <u>all</u> thunderstorms	Limited in duration and/or coverage and/or intensity	Short-lived and/or not widespread, isolated intense storms possible	More persistent and/or widespread, a few intense	Long-lived, widespread and intense	Long-lived, very widespread and particularly intense
					
<ul style="list-style-type: none"> • Winds to 40 mph • Small hail 	<ul style="list-style-type: none"> • Winds 40-60 mph • Hail up to 1" • Low tornado risk 	<ul style="list-style-type: none"> • One or two tornadoes • Reports of strong winds/wind damage • Hail ~1", isolated 2" 	<ul style="list-style-type: none"> • A few tornadoes • Several reports of wind damage • Damaging hail, 1 - 2" 	<ul style="list-style-type: none"> • Strong tornadoes • Widespread wind damage • Destructive hail, 2" + 	<ul style="list-style-type: none"> • Tornado outbreak • Derecho
<p>* 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.</p>					





Major Flooding Likely Into The Weekend

April 4, 2025
5:15 PM

Expected Additional Rainfall Totals

Key Messages

- Multiple rounds of heavy rainfall are expected through the weekend
- Flooding will become more widespread later in the weekend as additional storms move through
- The area of heaviest rainfall may shift slightly over the next few days

Impacts

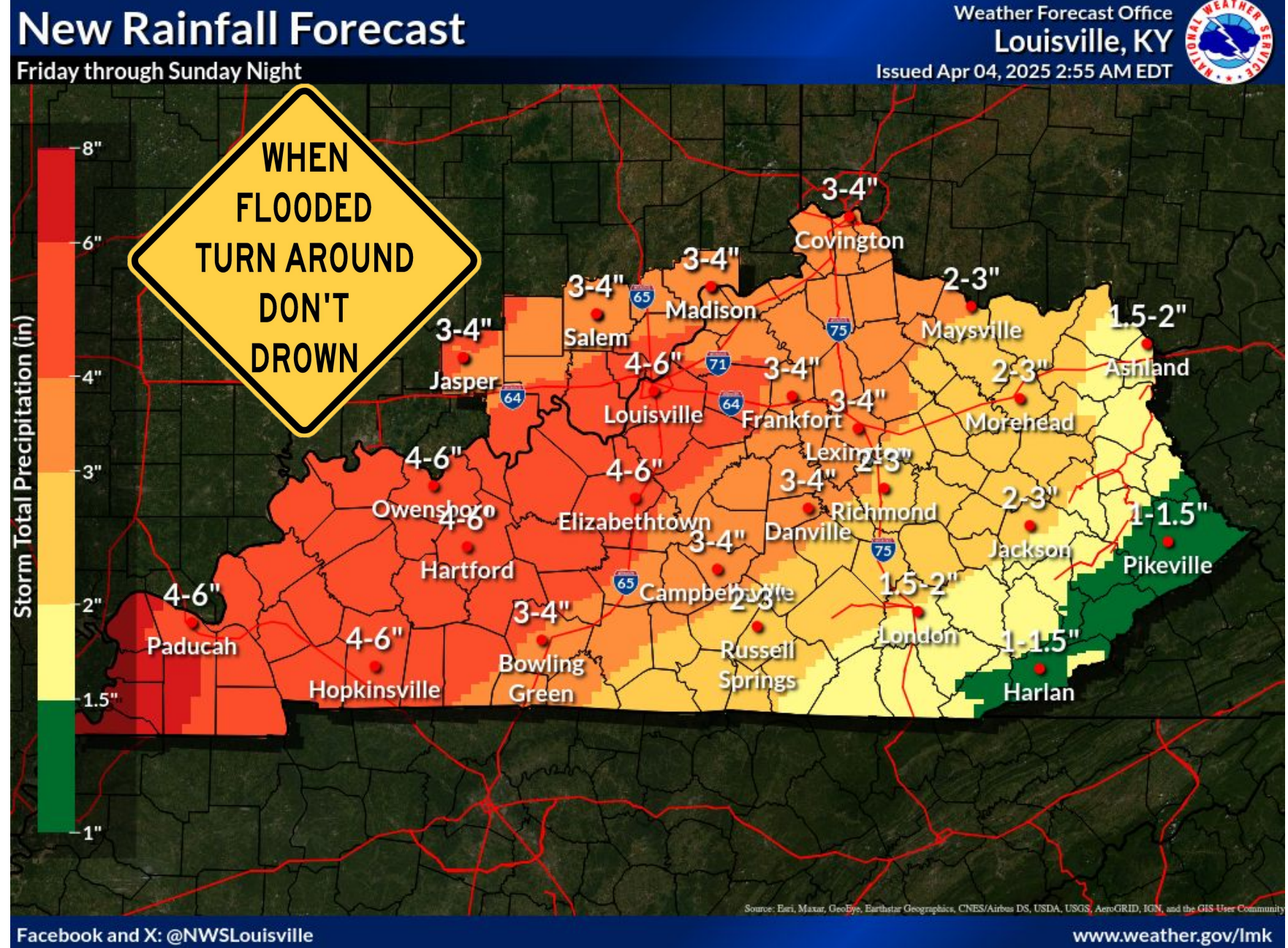
- **Flash flooding** due to heavy rainfall rates in thunderstorms
- **Widespread river flooding**
- **Potentially life-threatening flooding**

Confidence in Flooding

Low

Medium

High

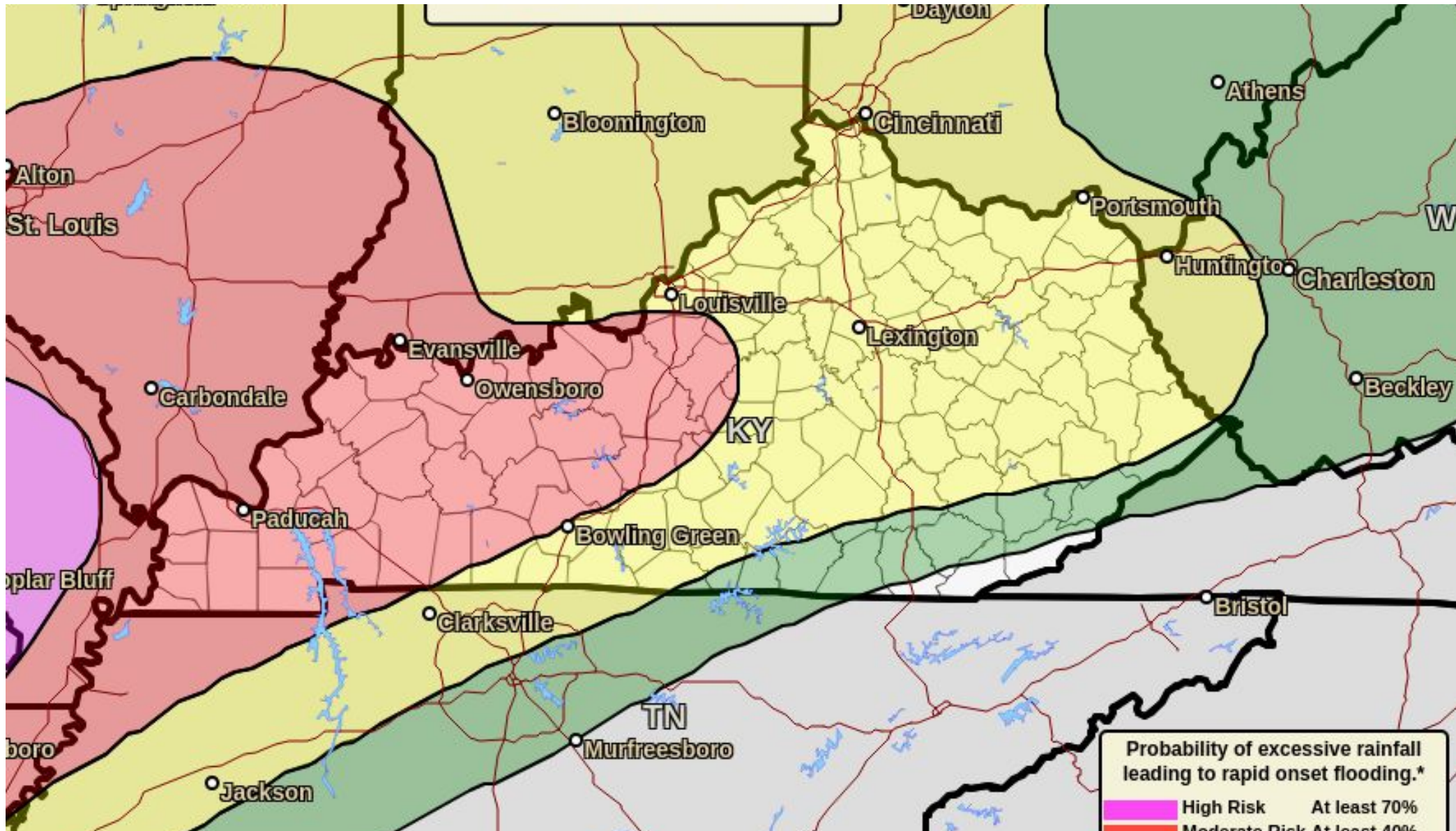







Major Flooding Likely Into The Weekend

April 4, 2025
5:15 PM

Today's Excessive Rainfall Outlook

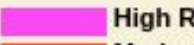



Probability of excessive rainfall leading to rapid onset flooding.*

	High Risk	At least 70%
	Moderate Risk	At least 40%
	Slight Risk	At least 15%
	Marginal Risk	At least 5%

** Within 25 miles of a point.
May not represent localized flooding threat over burn scars.*

Probability of excessive rainfall leading to rapid onset flooding.*

	High Risk	At least 70%
	Moderate Risk	At least 40%



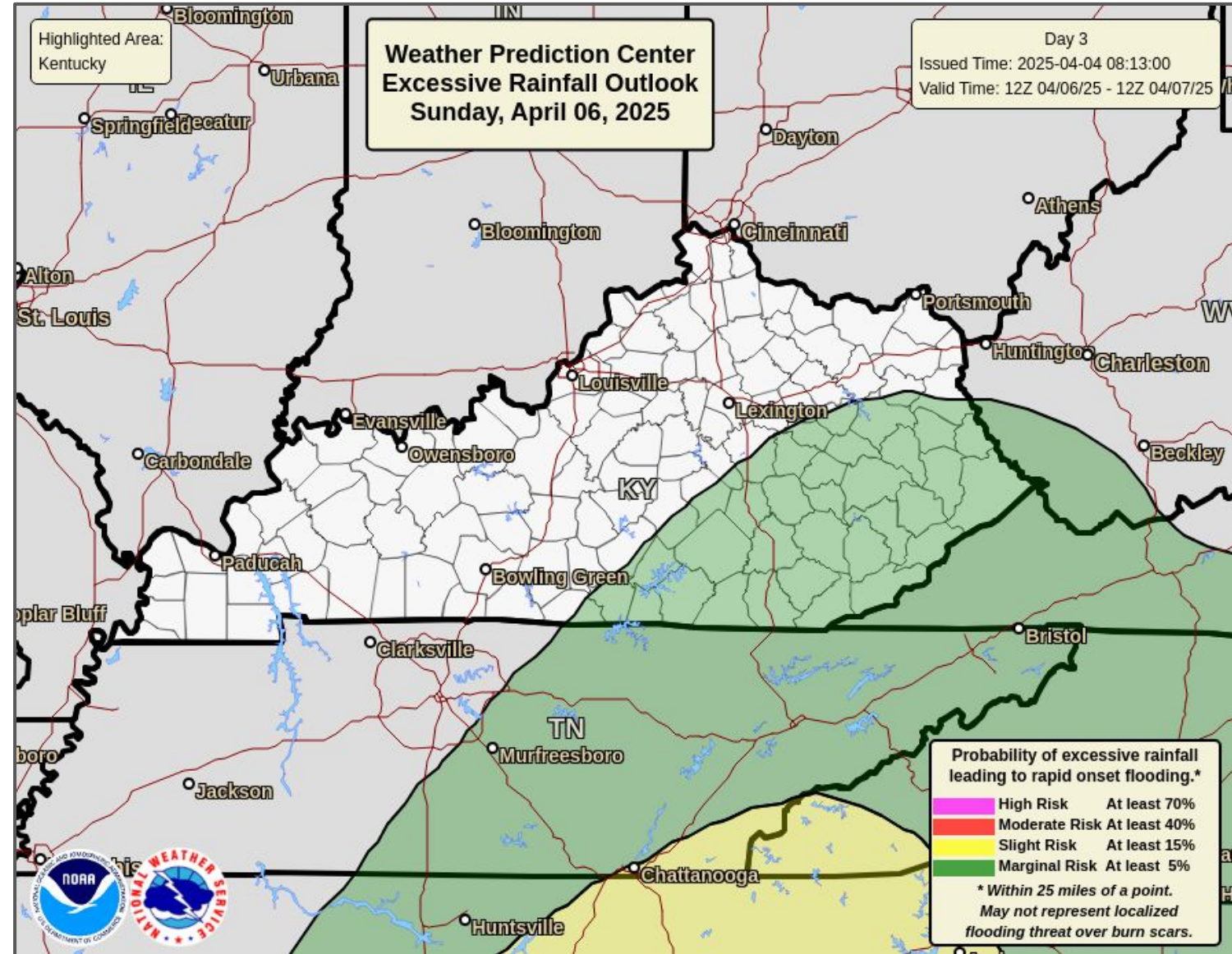
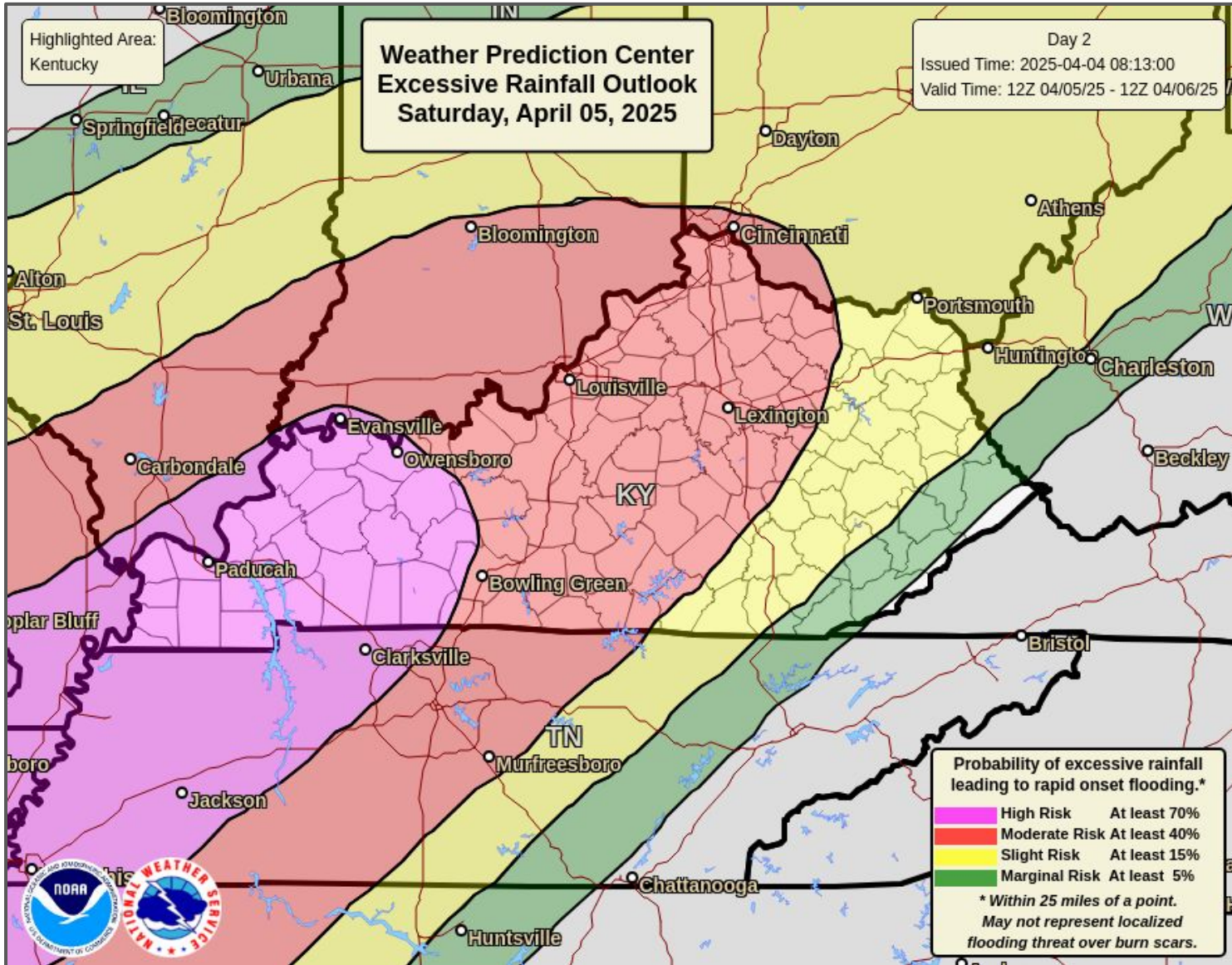
Major Flooding Likely Into The Weekend

April 4, 2025
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Excessive Rainfall Outlooks for the Weekend

Saturday Excessive Rainfall Outlook

Sunday Excessive Rainfall Outlook





Understanding WPC Outlook Categories

April 4, 2025
5:15 PM

Excessive Rainfall Outlooks Defined

Understanding WPC Excessive Rainfall Risk Categories

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

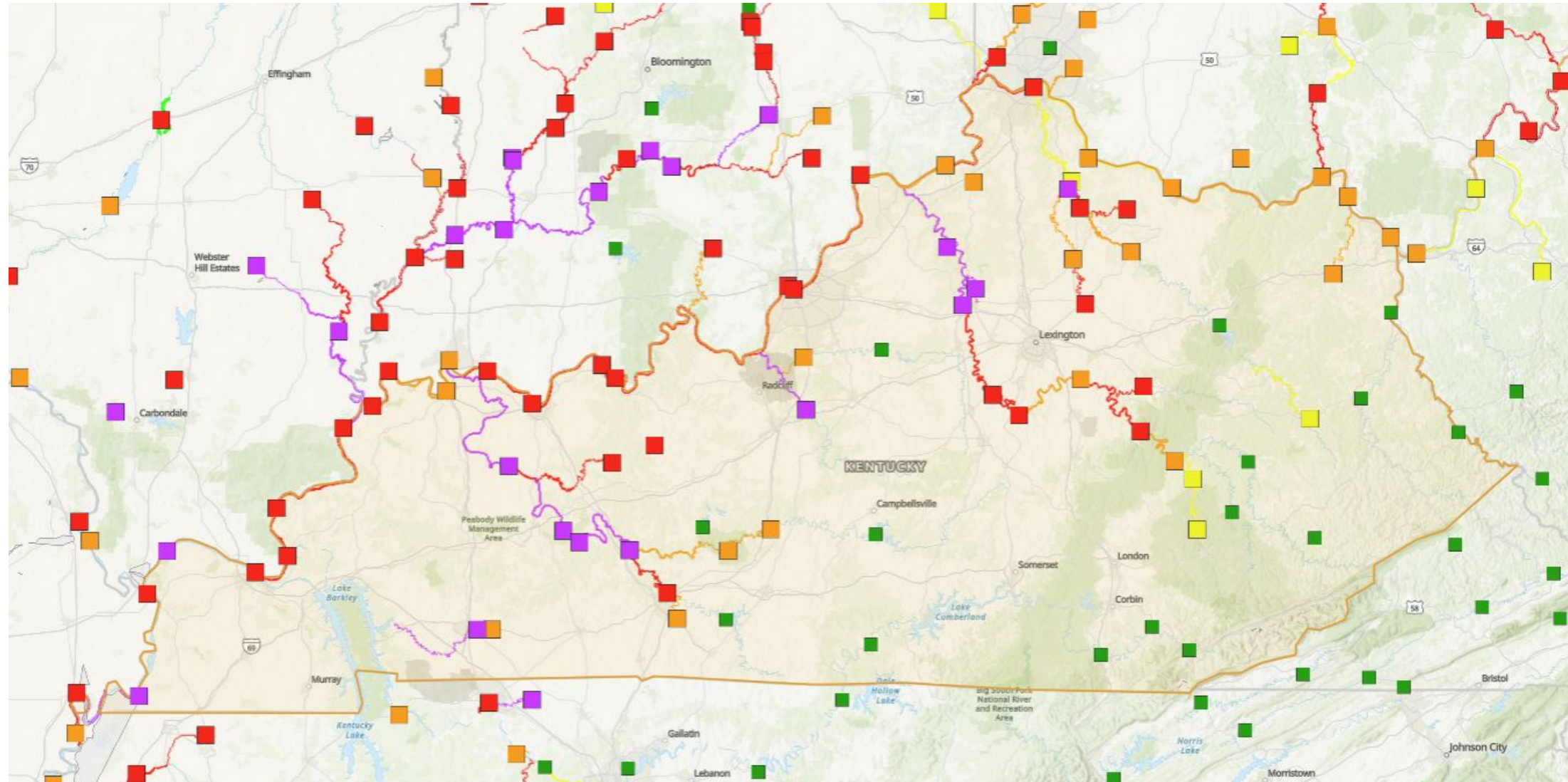




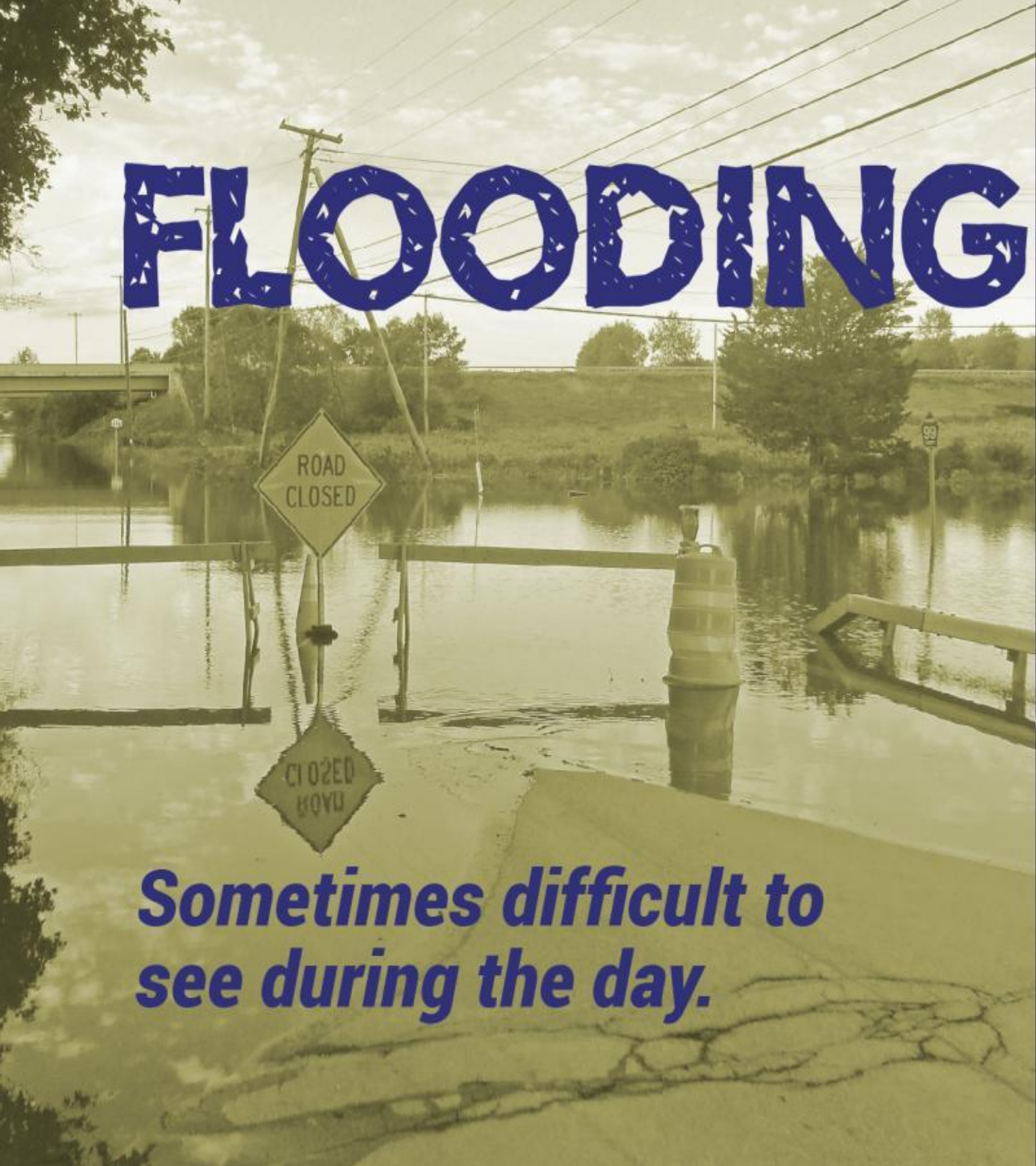
Major Flooding Likely Late Week

April 4, 2025
5:15 PM

This is an increasingly significant setup with potential for high impacts and life-threatening flooding spanning the course of several days. Be sure to prepare if you live in a flood zone!



FLOODING



Sometimes difficult to see during the day.

AT NIGHT



Impossible to see at night.



[weather.gov](https://www.weather.gov)

Be Prepared for Nighttime Tornadoes



NOAA Weather Radio

Test regularly and make sure it's tuned to your local station

Safe Place

Have a safe place prepared if you know storms are coming

Cell phone

Turned on, charged and Wireless Emergency Alerts enabled

Flashlight & Shoes

Keep flashlight and sturdy shoes handy