



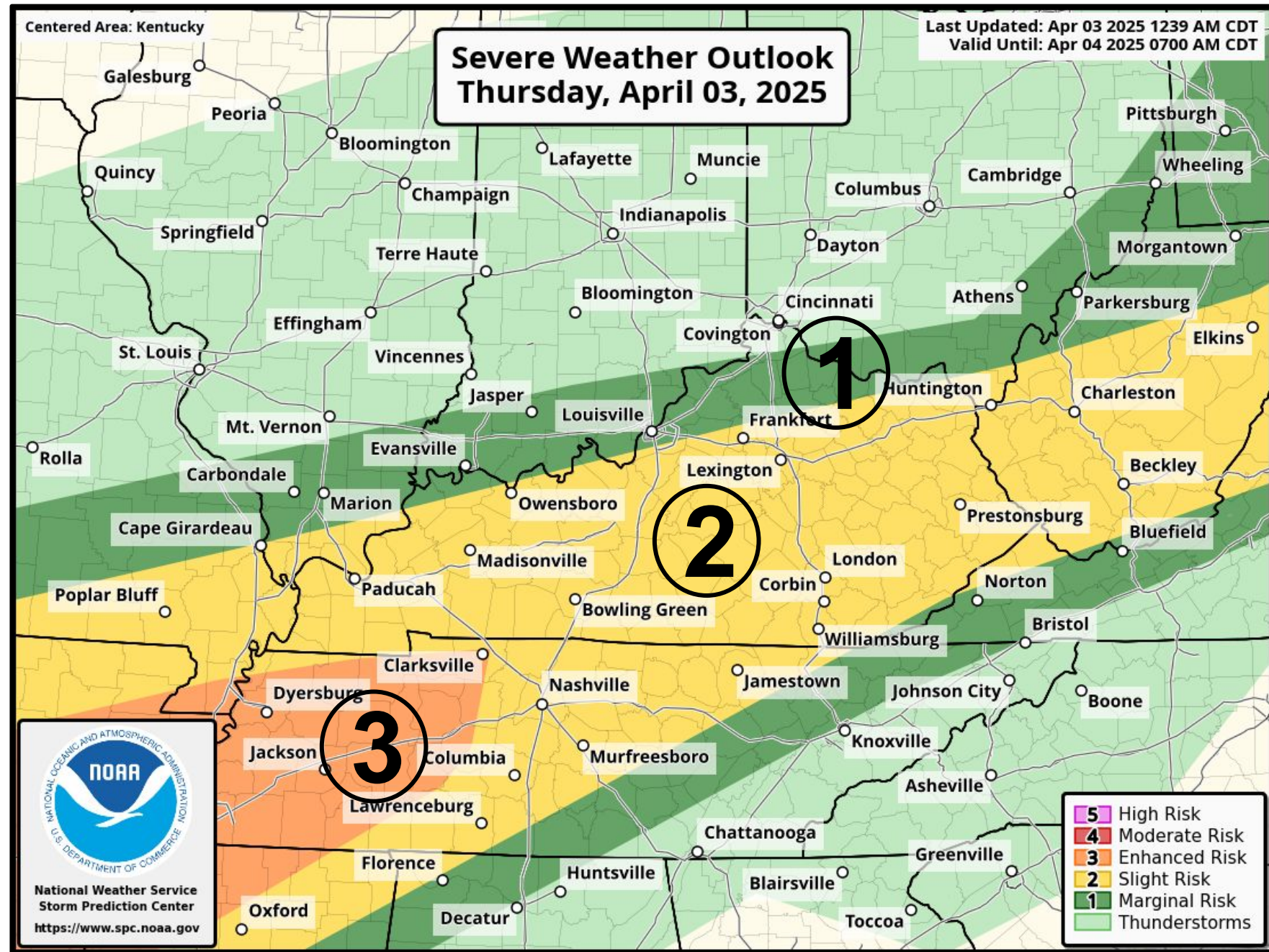
Severe Storm Potential Tonight

April 3, 2025
5:30 PM

Key Messages

- Waves of showers and storms will ride along a stalled cold front
- All hazards are in play (see following slides), however, the long-track tornado and destructive wind threat will be much lower than what we had last night
- Most likely timing: this afternoon and evening

Confidence in Severe Storms





Tornado Probabilities

April 3, 2025
5:30 PM

Tonight

Key Messages

- Isolated tornadoes possible
- Highest chances for a tornado are in southern and eastern Kentucky

What You Can Do

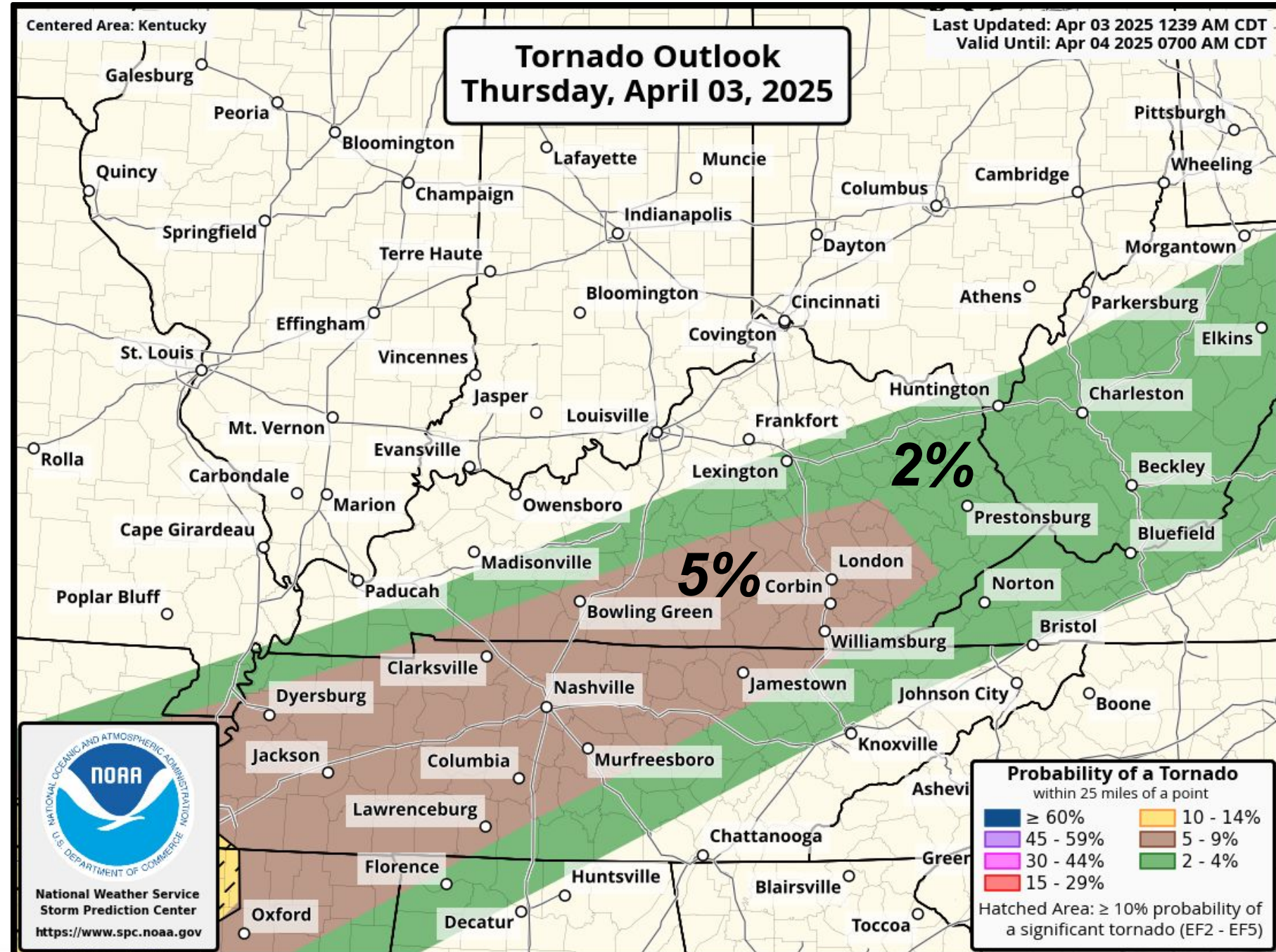
- Have a plan for when warnings are issued for your area! Make sure you have multiple ways to receive warnings, do not rely on outdoor sirens!
- Know where to shelter at home or work.

Confidence in Tornadoes

Low

Medium

High





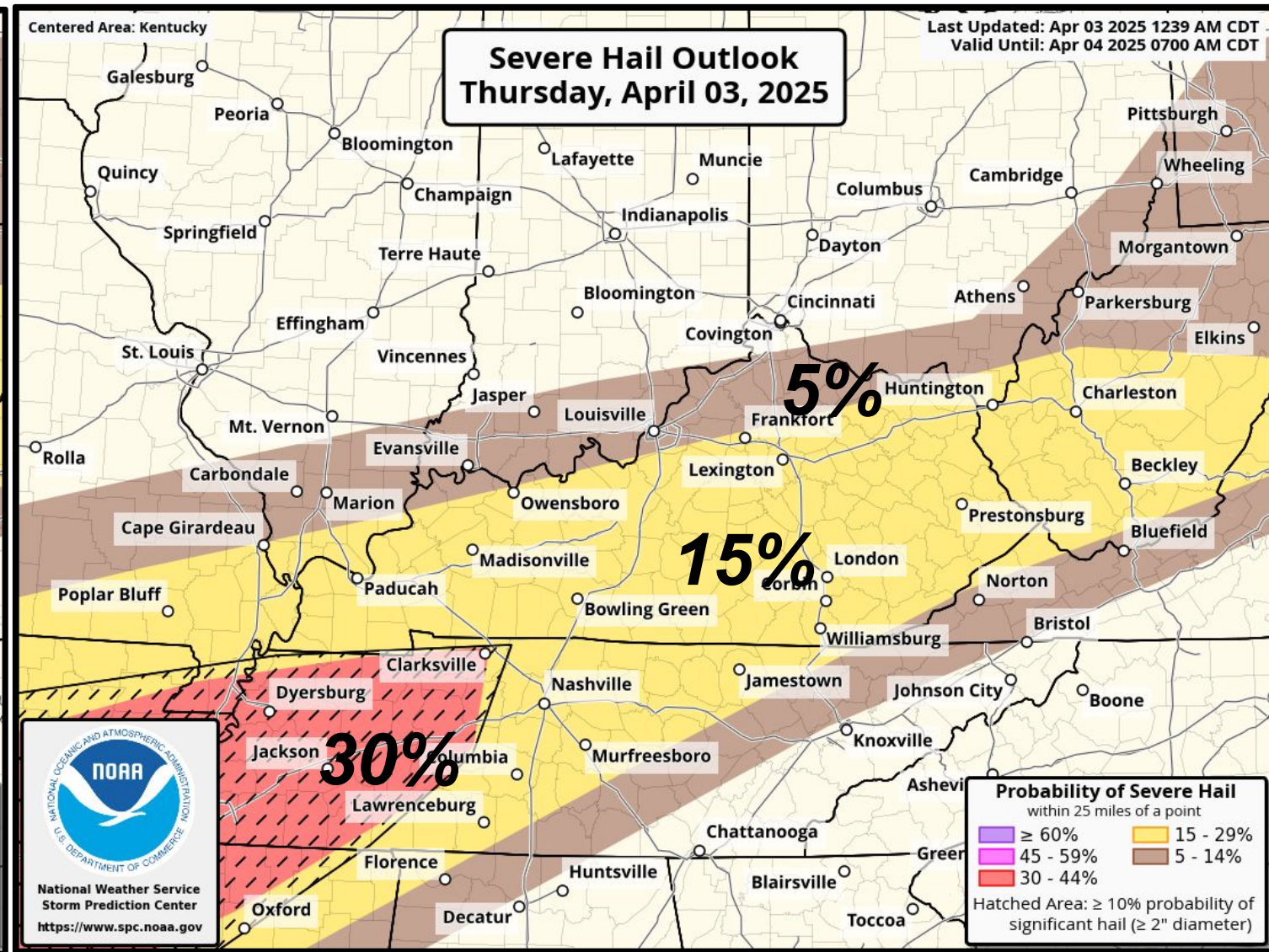
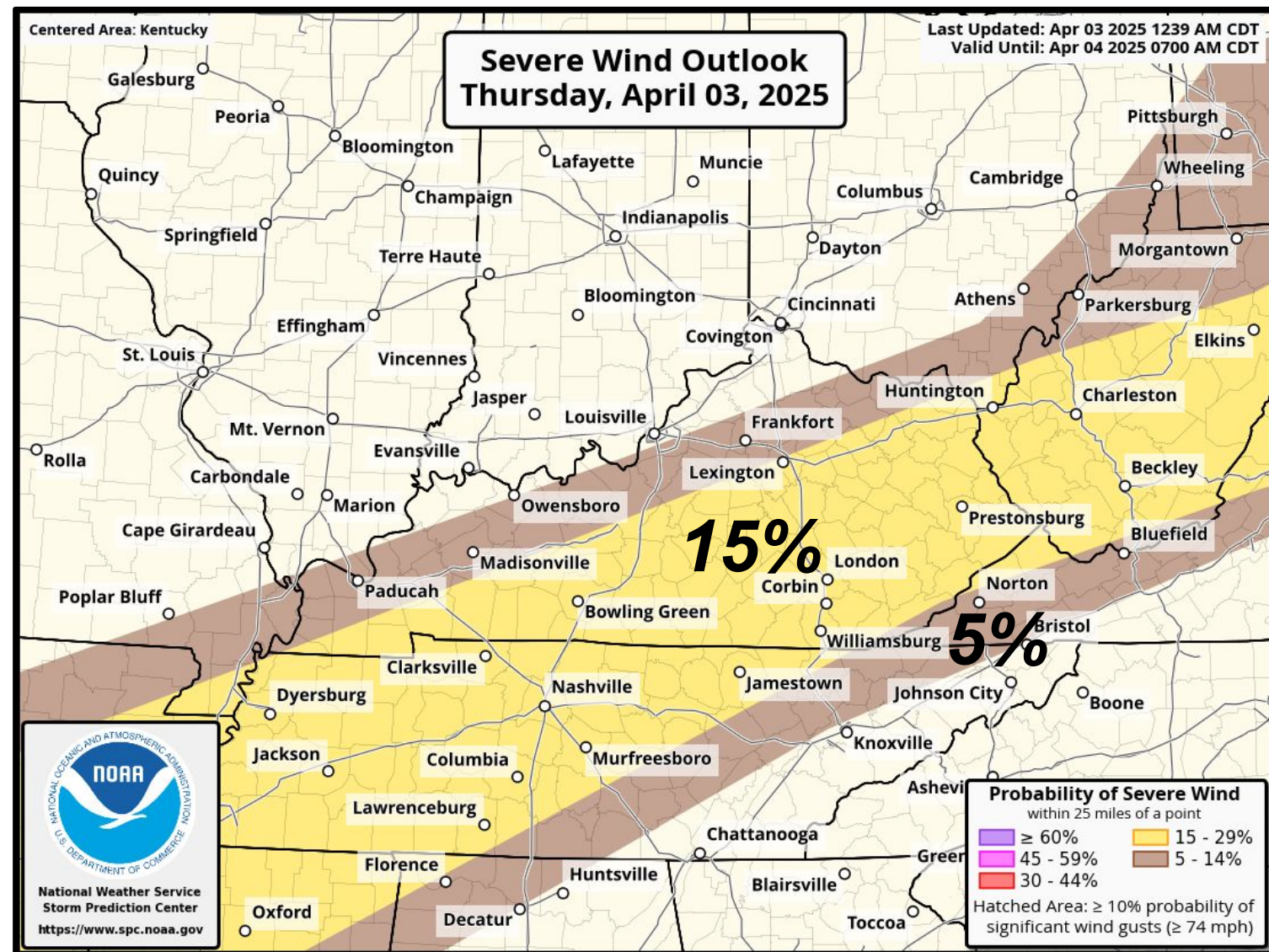
Severe Wind and Hail Probabilities

April 3, 2025
5:30 PM

Tonight

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

Probability of Severe Hail (1" Diameter)



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

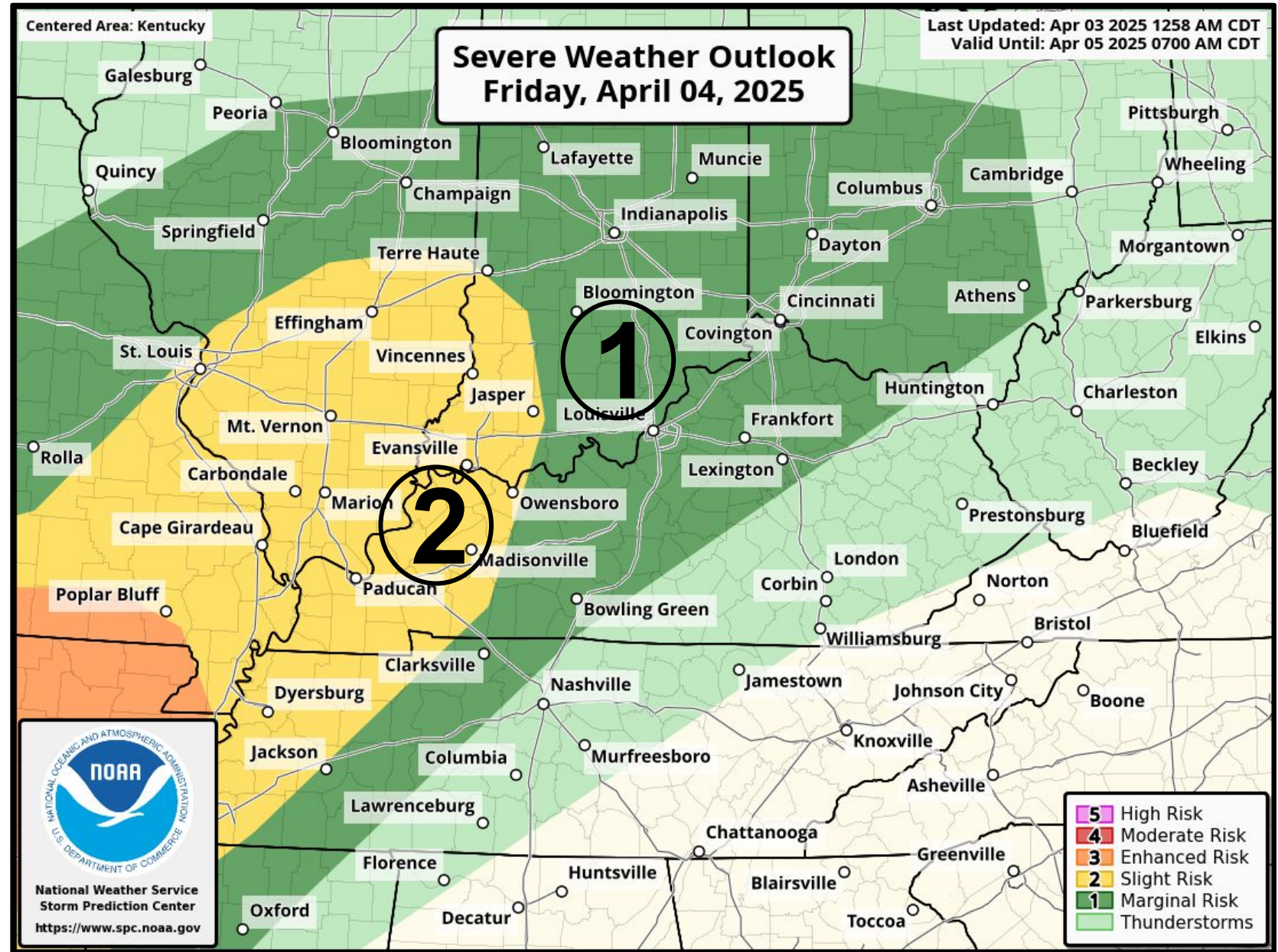


Severe Storm Potential Friday

April 3, 2025
5:30 PM

Key Messages

- Additional waves of showers and storms will ride along a stalled cold front
- Large hail and strong gusty winds are the main threats



Confidence in Severe Storms



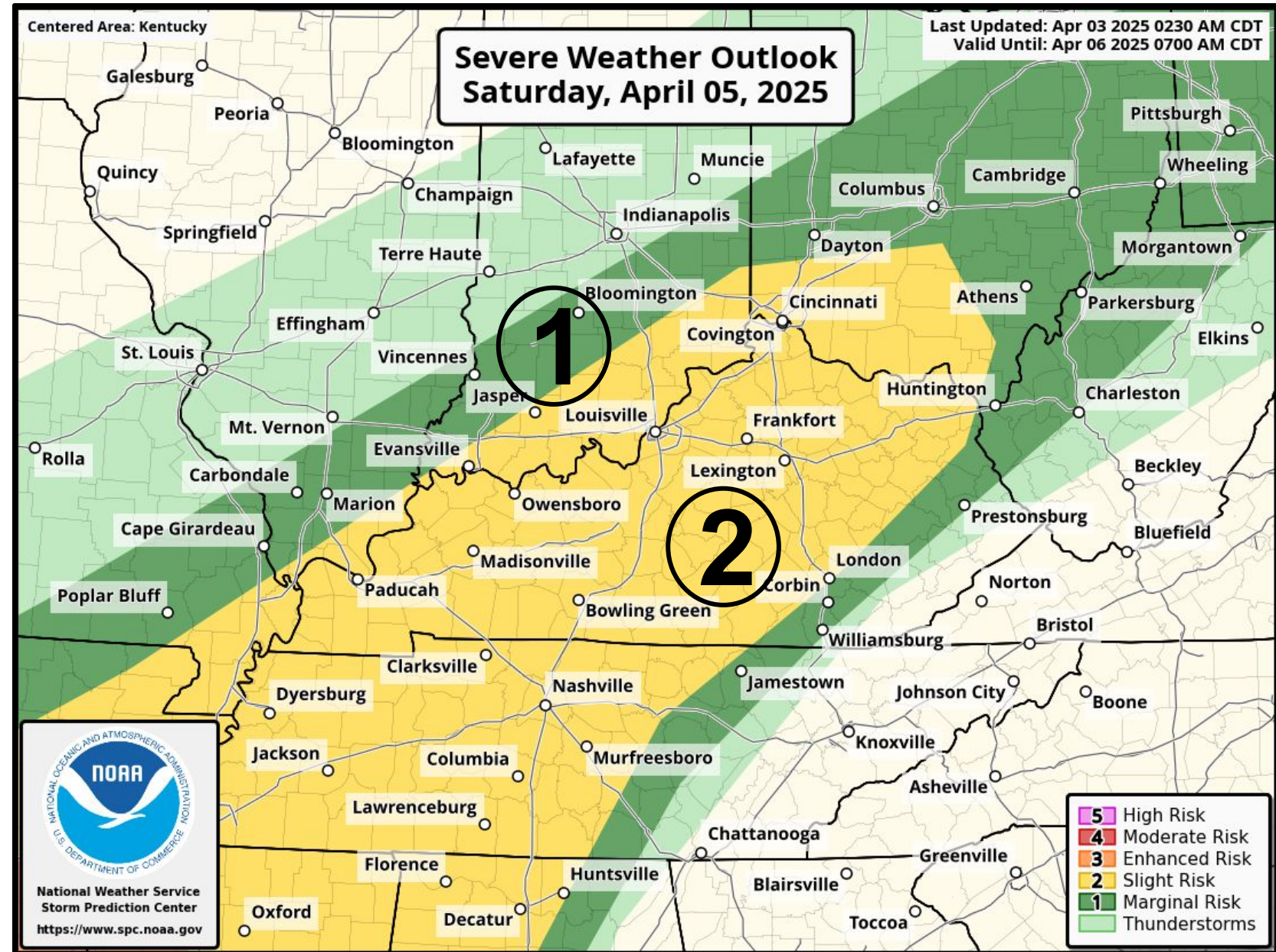


Severe Storm Potential Saturday

April 3, 2025
5:30 PM

Key Messages

- Additional waves of showers and storms will ride along a stalled cold front
- Large hail and strong gusty winds are the main threats



Confidence in Severe Storms











Understanding SPC Outlook Categories

April 3, 2025
5:30 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 Late Week

April 3, 2025
5:30 PM

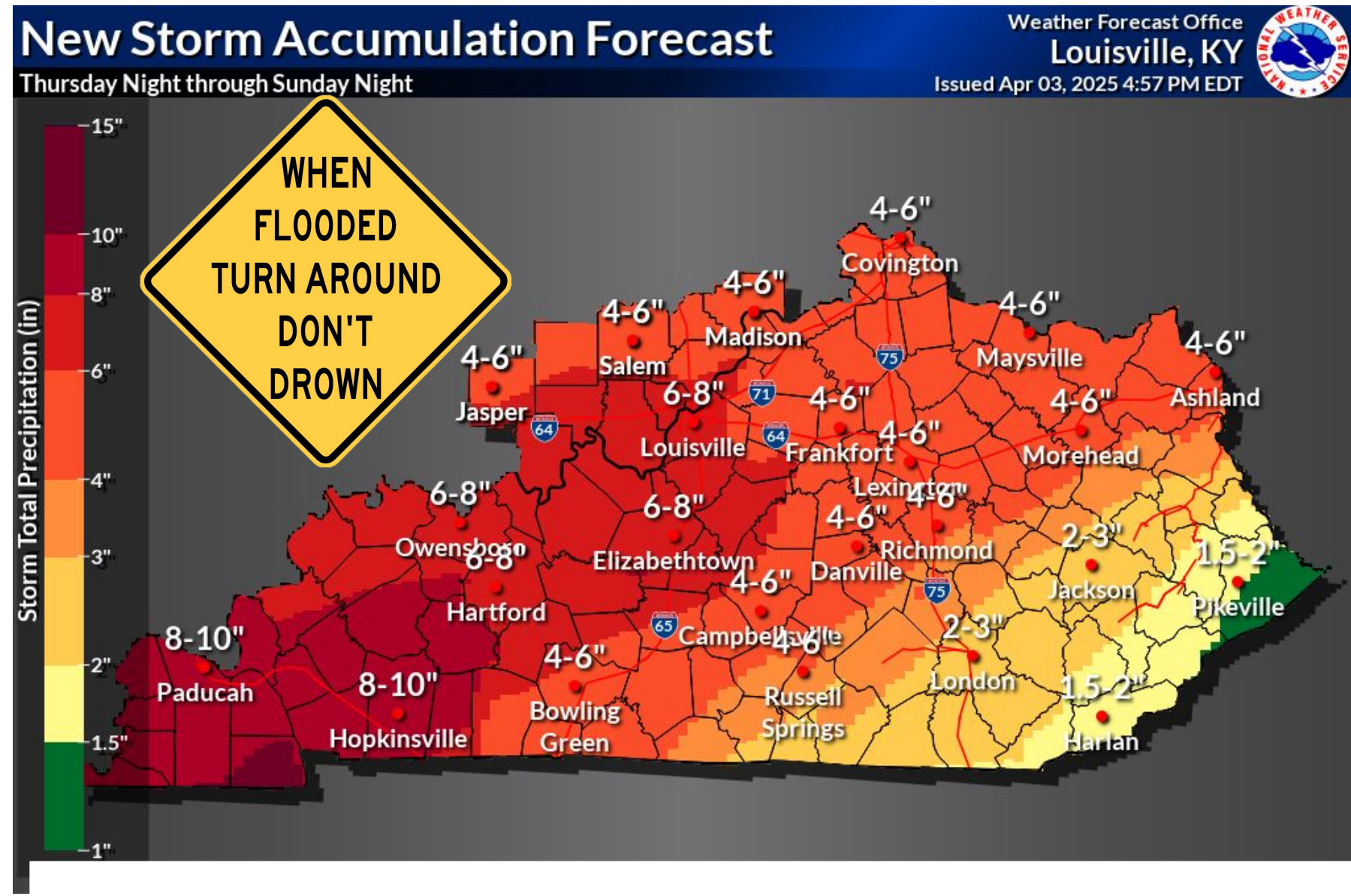
Key Messages

- Multiple rounds of heavy rainfall are expected tonight through the weekend
- Flooding will become more widespread later in the week 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





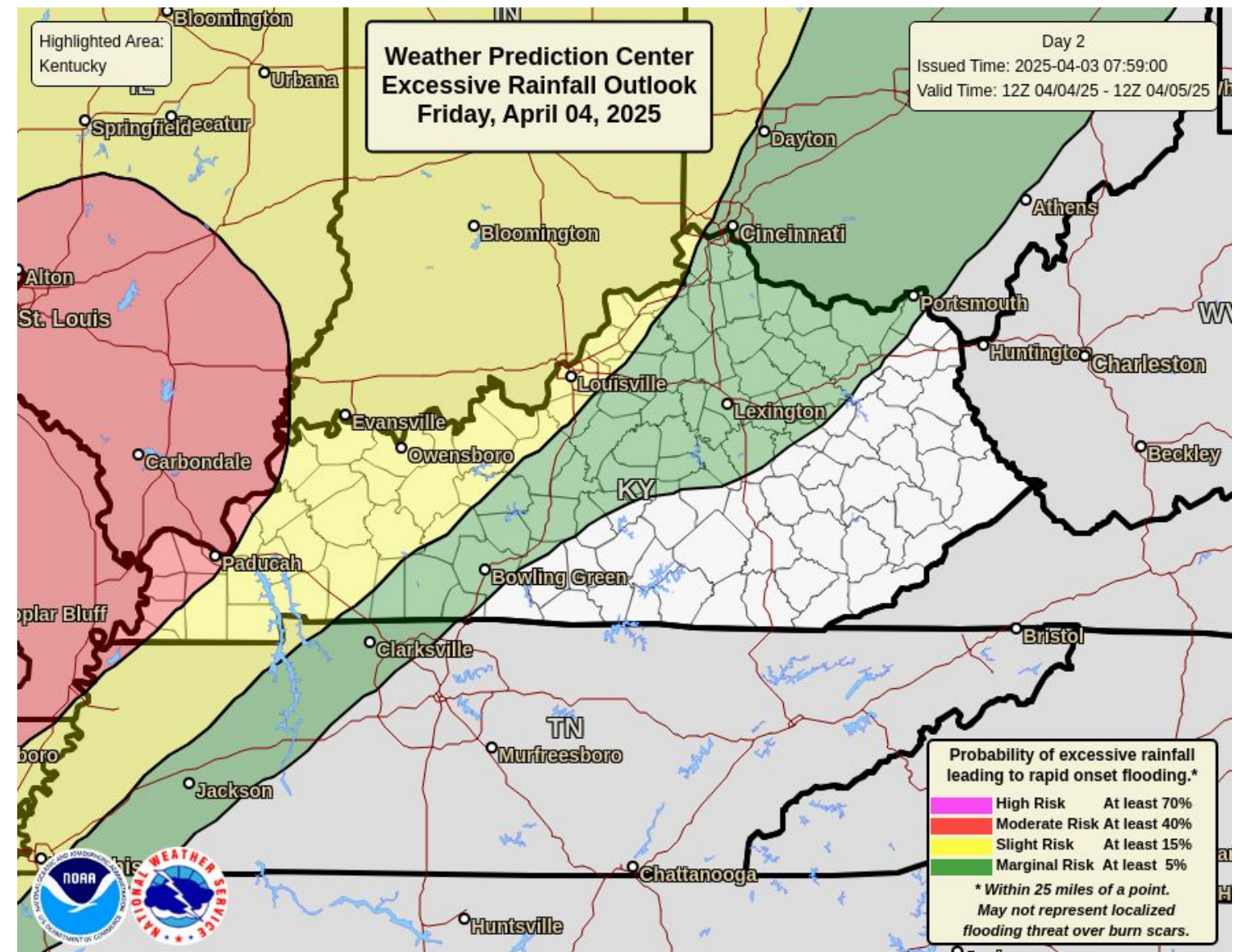
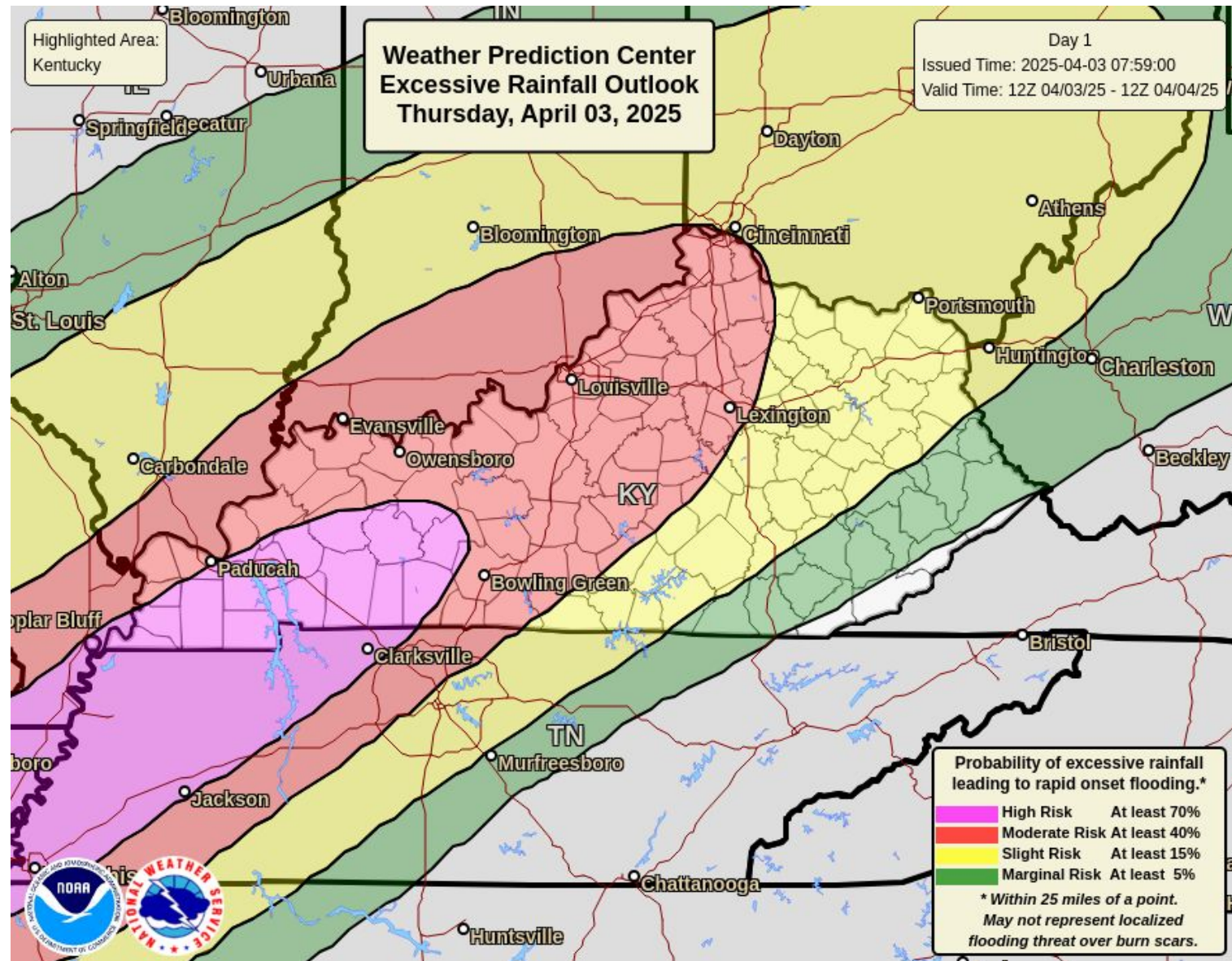
Major Flooding Likely Late Week

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Excessive Rainfall Outlooks for Today and Friday

Today's Excessive Rainfall Outlook

Friday Excessive Rainfall Outlook





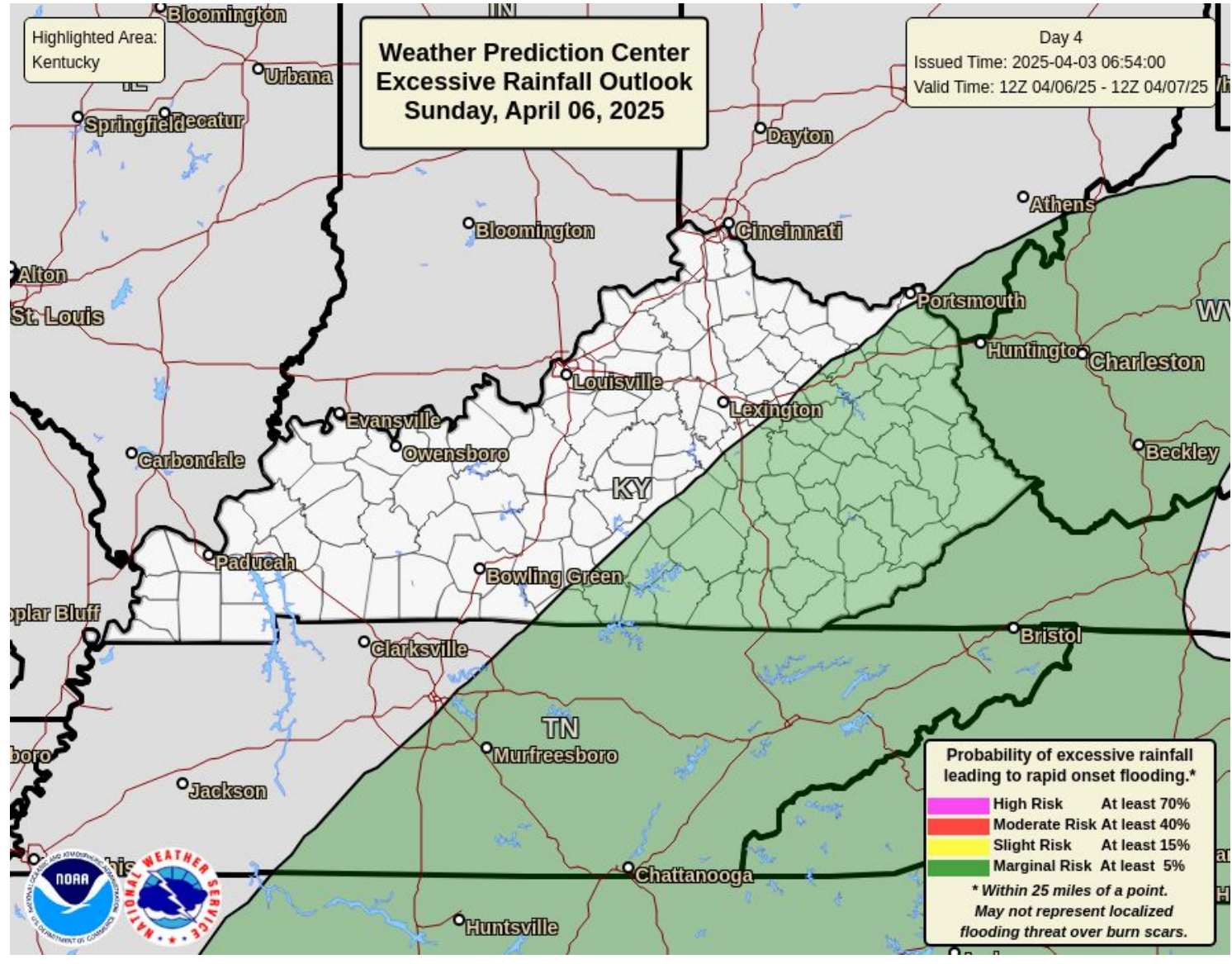
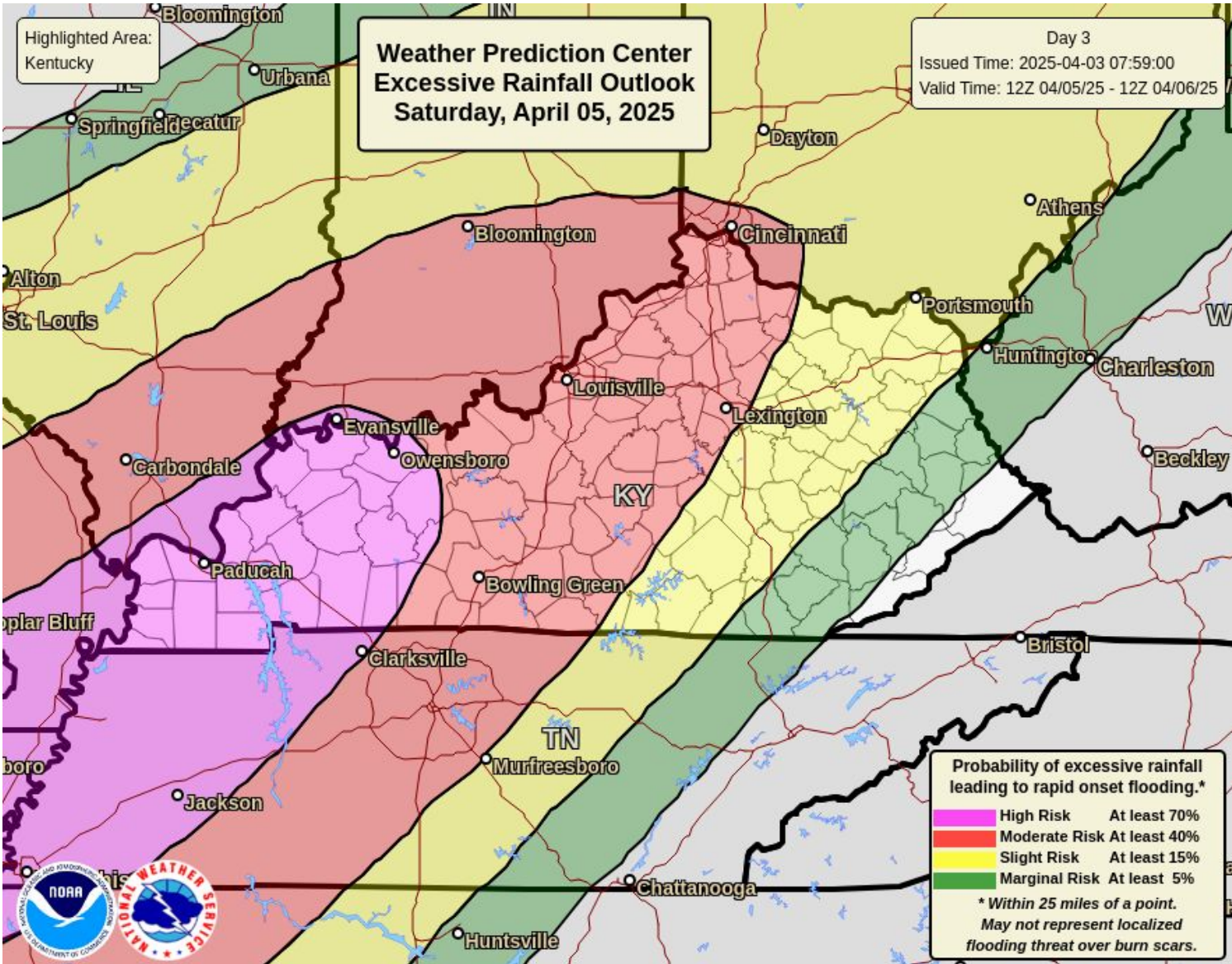
Major Flooding Likely Late Week

April 3, 2025
5:30 PM

Excessive Rainfall Outlooks for the Weekend

Saturday Excessive Rainfall Outlook

Sunday Excessive Rainfall Outlook





Understanding WPC Outlook Categories

April 3, 2025
5:30 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>				

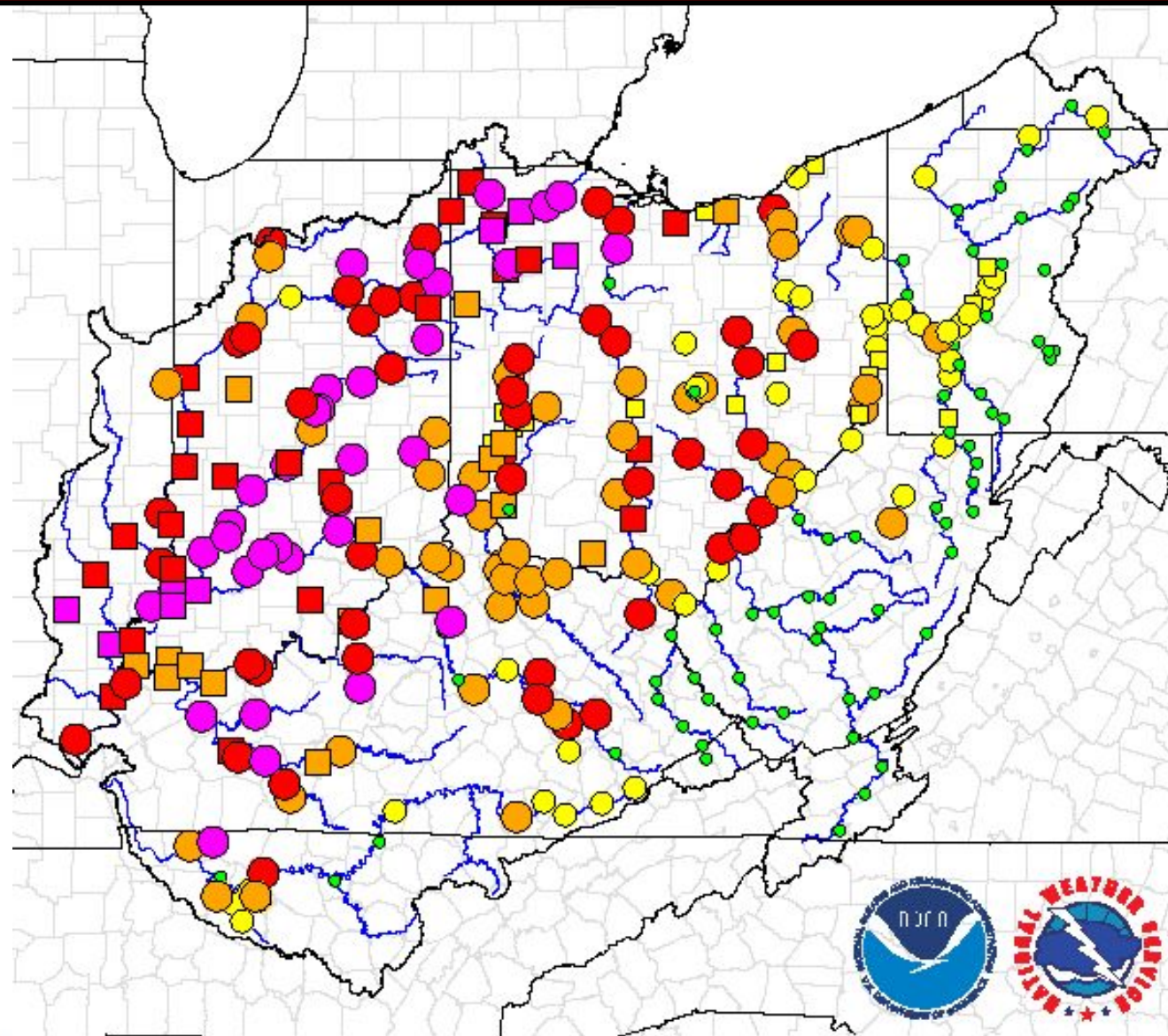




Major Flooding Likely Late Week

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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!



10-Day Potential River Levels
2025-04-02 - 2025-04-12
NWS Ohio River Forecast Center

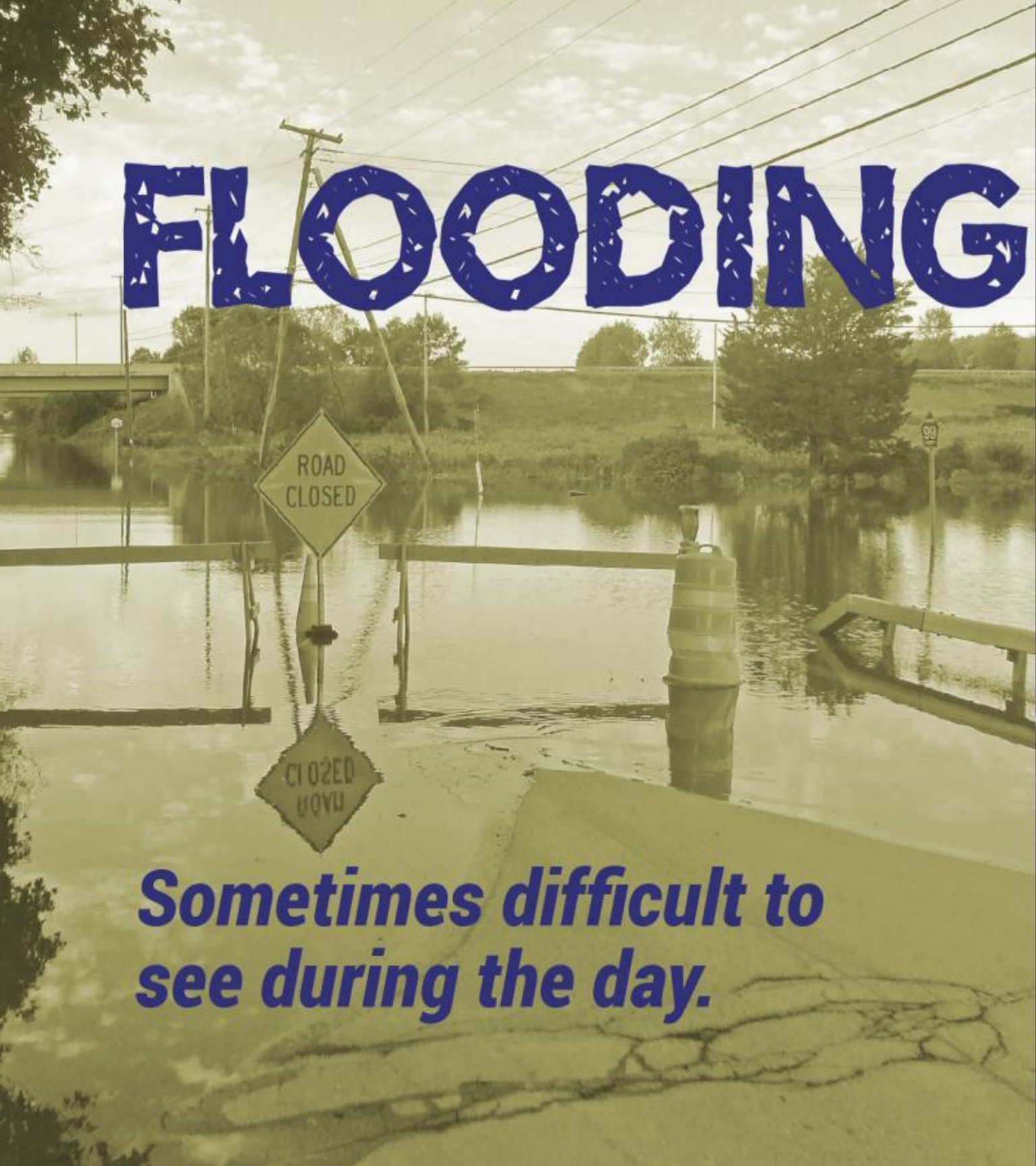
- Normal Flow
- 30% Exceedance 70%
- Action Stage ■
- Minor Flood ■
- Moderate Flood ■
- Major Flood ■

NAEFS Model Cycle:
2025040208Z

Issued Apr 02 19:35 EDT



FLOODING



Sometimes difficult to see during the day.

AT NIGHT



Impossible to see at night.



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