



Active Weather Continues This Week

April 2, 2025
5:29 AM

Severe Thunderstorm and Flooding Potential

Key Messages

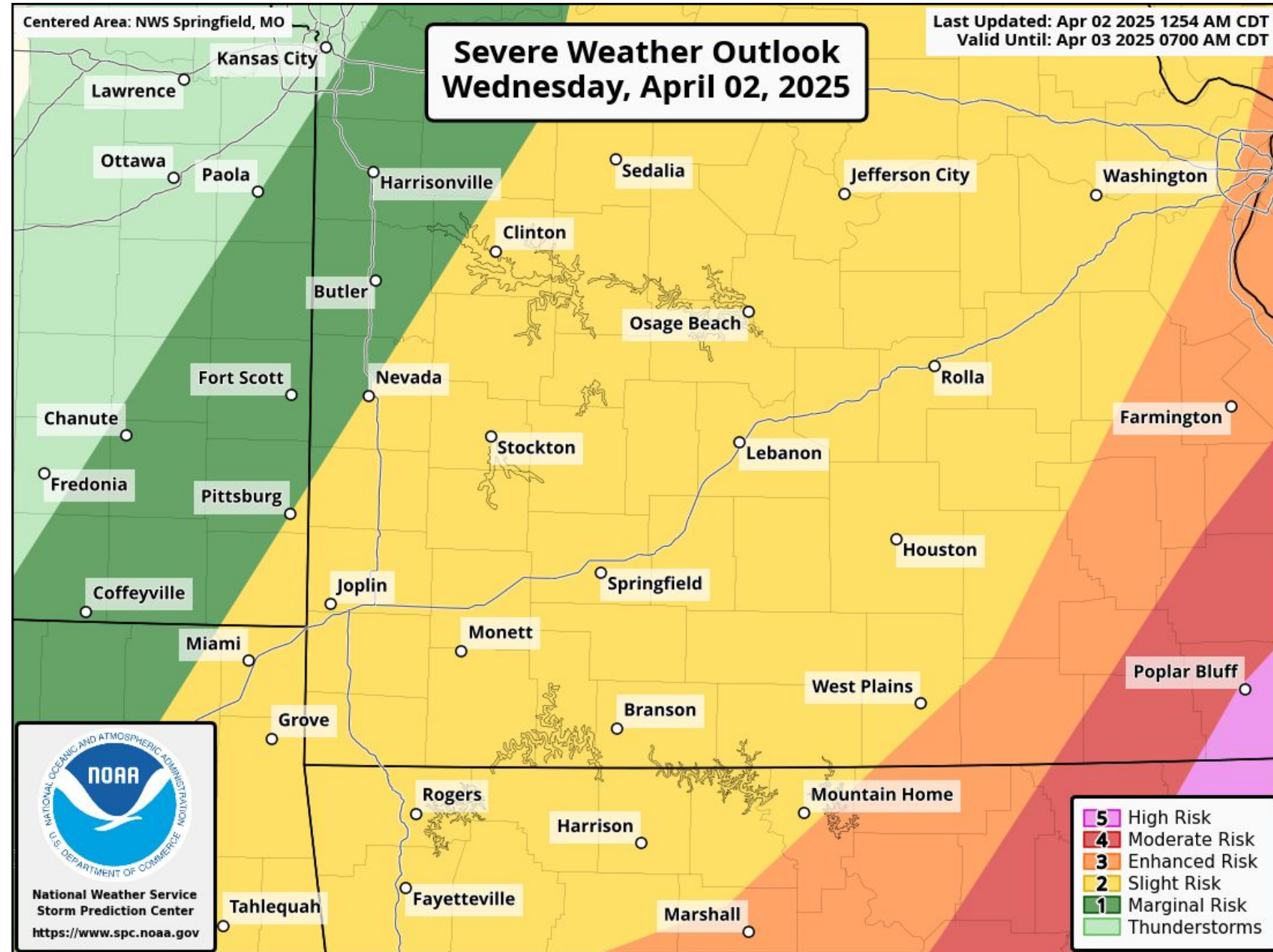
- Slight (2 of 5) to Enhanced (3 of 5) risk for severe storms this morning through the rest of today.
- All hazards will be possible, though the best chance for significant hazards will be east of Highway 63.
- Confidence and concern continues to increase for the potential for heavy rainfall and significant flooding late week.

NEW Important Updates

- Tornado Watch in Effect until 12 PM today
- Refined timeline graphic for severe thunderstorms today
- Added reasonable best and worst case scenario rainfall amounts through the weekend.

Next Scheduled Briefing

- Wednesday Morning, April 2



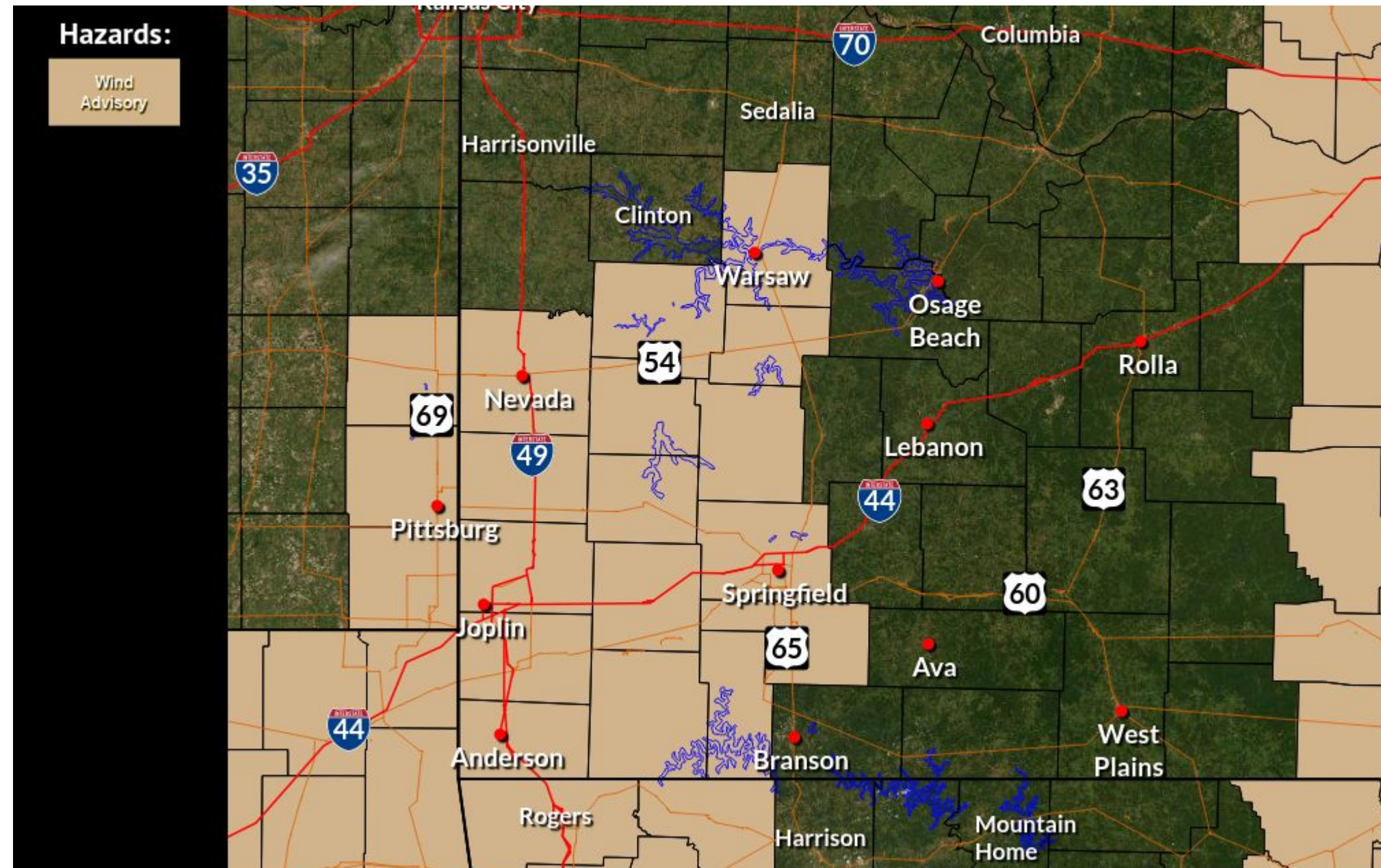


Wind Advisory Today

April 2, 2025
5:29 AM

Key Points

- Gusty winds out of the south will continue this through early afternoon.
- This advisory may be expanded in area and time as the day goes on.
- These winds will mainly just be a nuisance to high profile vehicles and unsecured outdoor objects, though they will create some elevated fire danger, especially within southeast Kansas and west Missouri.





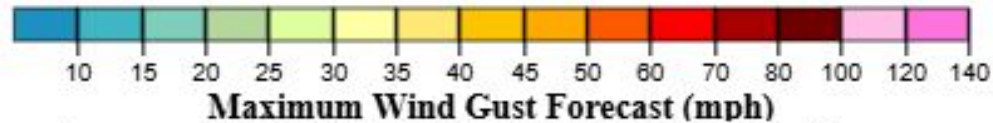
Wind Gusts Timeline

April 2, 2025
5:29 AM

Maximum Wind Gust Forecast (mph)

4/2
Wed

	5am	6am	7am	8am	9am	10am	11am	12pm	1pm	2pm	3pm	4pm	5pm	6pm	Maximum
Branson	32↑	33↑	35↑	37↑	37↑	37↑	35↑	32↑	31↑	29↑	28↑	24↑	23↑	22↑	37
Fort Leonard Wood	39↑	40↑	40↑	40↑	41↑	40↑	39↑	38↑	36↑	35↑	31↑	29↑	28↑	24↑	41
Joplin	43↑	44↑	43↑	41↑	39↑	37↑	35↑	33↑	33↑	32↑	30↑	29↑	26↑	24↑	44
Lebanon	41↑	41↑	41↑	41↑	41↑	41↑	40↑	38↑	36↑	35↑	33↑	30↑	28↑	26↑	41
Osage Beach	37↑	37↑	37↑	38↑	36↑	35↑	37↑	35↑	33↑	32↑	30↑	29↑	28↑	24↑	38
Pittsburg, KS	44↑	43↑	43↑	41↑	39↑	36↑	35↑	33↑	32↑	31↑	30↑	29↑	26↑	23↑	44
Rolla	40↑	41↑	41↑	43↑	41↑	43↑	43↑	40↑	39↑	38↑	36↑	32↑	29↑	26↑	43
Springfield	39↑	39↑	39↑	39↑	40↑	39↑	38↑	37↑	35↑	33↑	31↑	29↑	28↑	25↑	40
West Plains	37↑	38↑	39↑	40↑	41↑	40↑	39↑	38↑	37↑	37↑	35↑	32↑	29↑	26↑	41



Created: 3 am CDT Wed 4/2/2025 | Values are maximums over the period beginning at the time shown.



Tornado Watch this Morning

April 2, 2025
5:29 AM

In effect until 12 PM today

Tornado Watch

Valid Until
12:00 PM CDT Wednesday
April 2, 2025

Threat Information



TORNADOES

A Couple Strong
Tornadoes Possible



HAIL

Scattered Hail Up To
Two Inch Size Possible



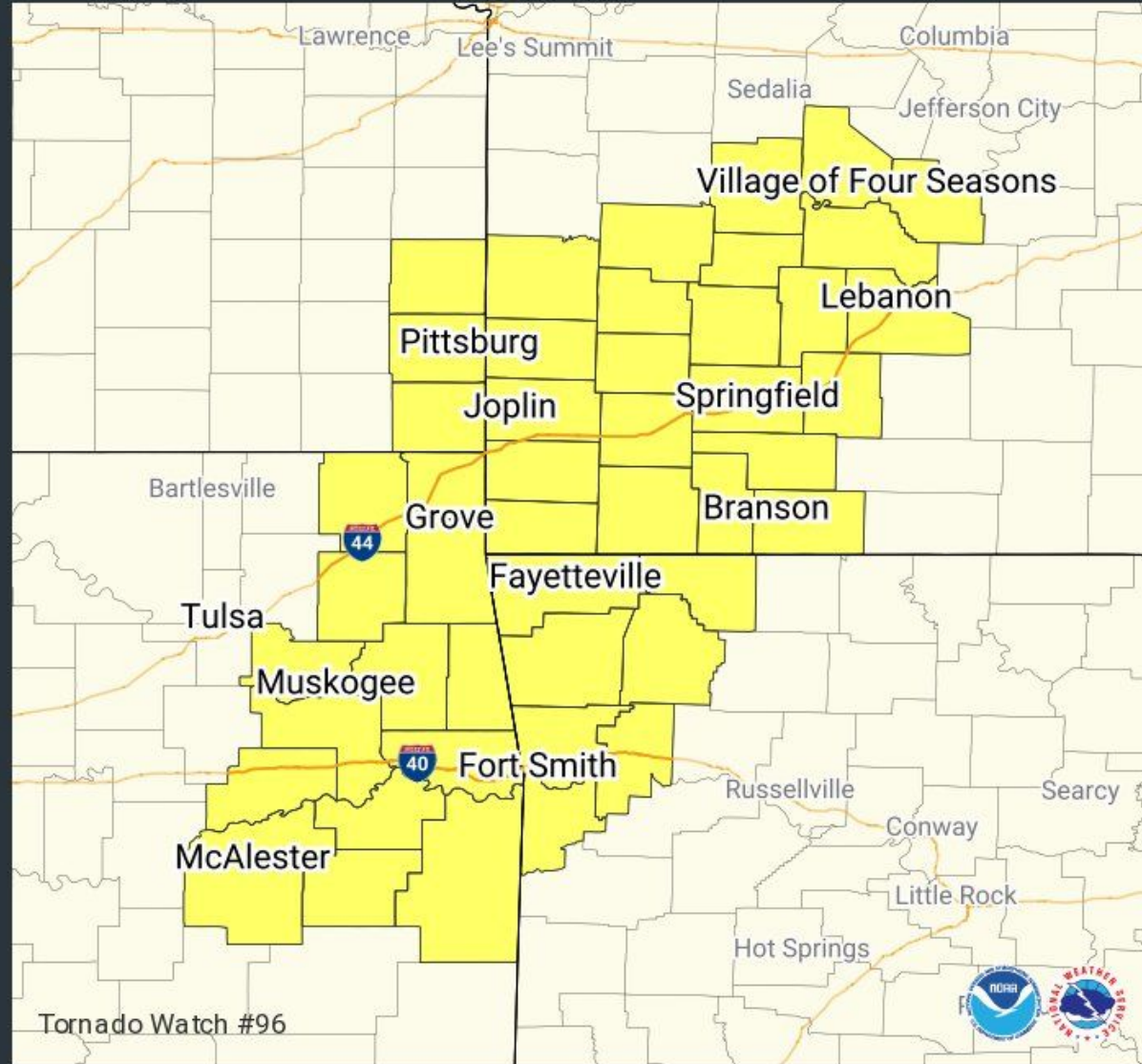
WIND

Scattered Gusts
Up To 75 MPH Likely

Potential Exposure



Population: 2,373,695
Schools: 1006
Hospitals: 73



Tornado Watch #96





Slight Risk This Evening/Tonight

April 2, 2025
5:29 AM

Best chance for higher severe thunderstorm coverage is east of Highway 63

Overview

- A line of thunderstorms will slowly move from west to east, entering southeast Kansas/west Missouri between 5-7 AM, and exiting the eastern Ozarks by 6-9 PM.
- Hazard intensity and coverage is expected to increase the the day goes on and the line moves further east.
- There is still some uncertainty in how well the line holds together west of Highway 63.

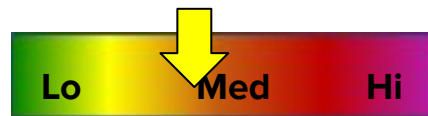
Severe Threats



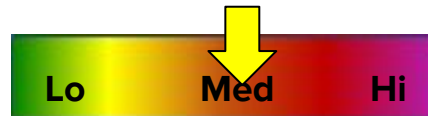
Tornado



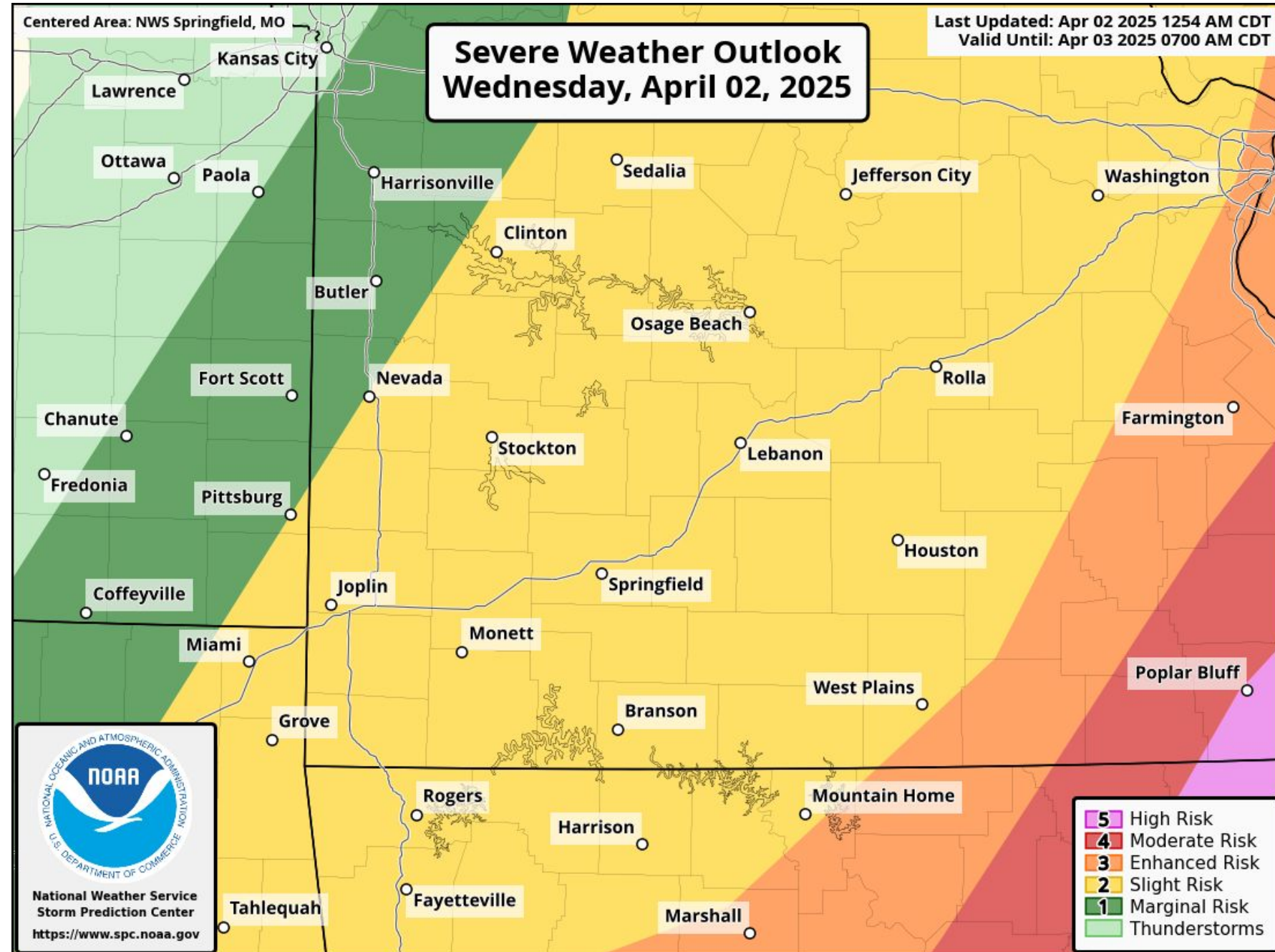
Hail



Wind



Flooding



National Oceanic and Atmospheric Administration
U.S. Department of Commerce

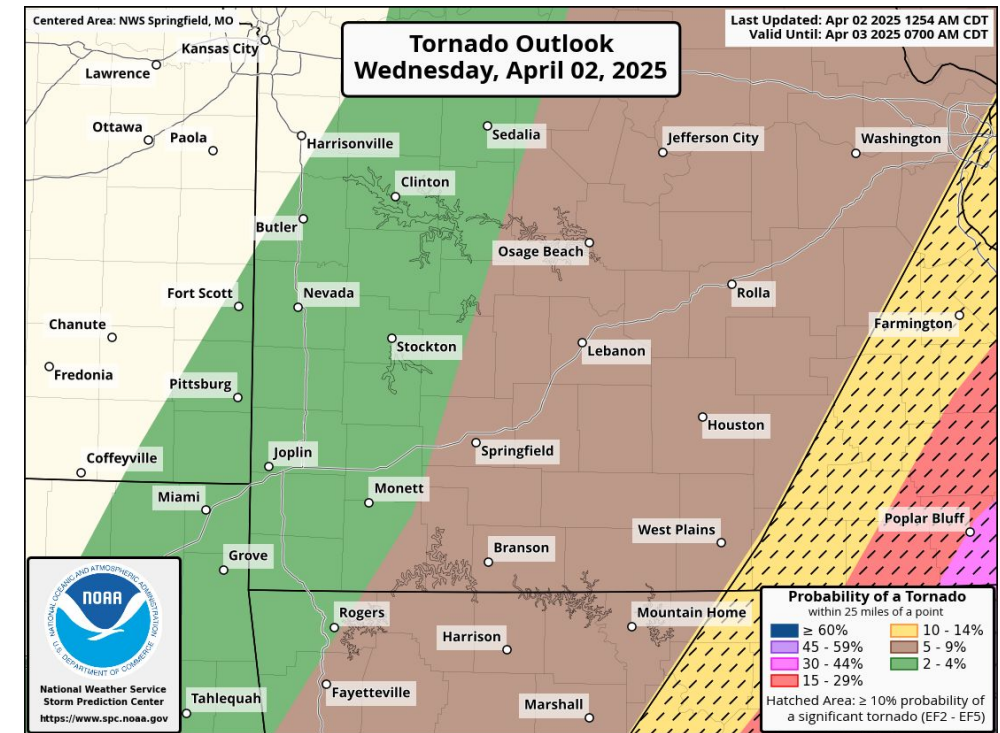
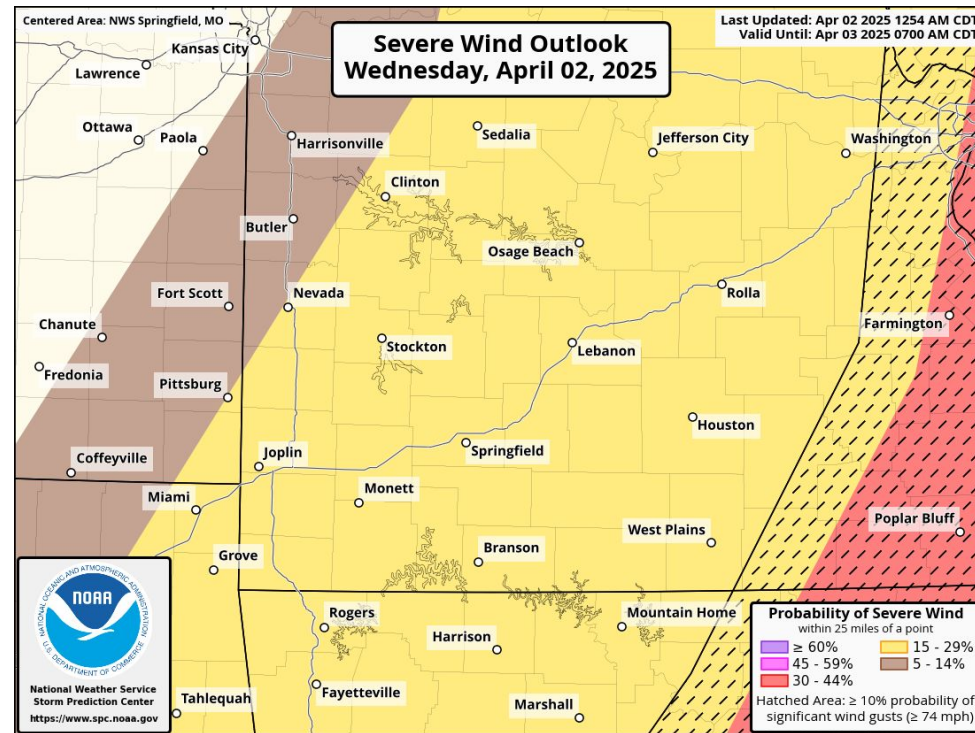
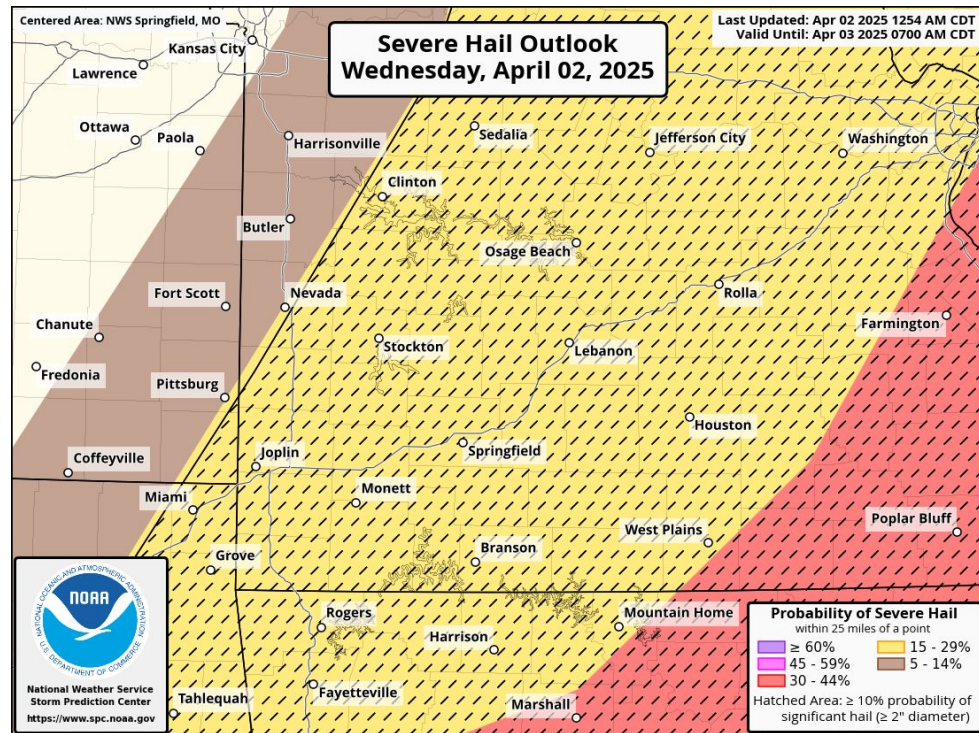
National Weather Service
Springfield, MO



Severe Hazard Probabilities Today

April 2, 2025
5:29 AM

This morning through this evening



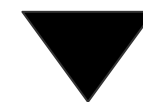
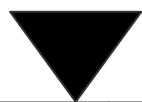
Hail Probability



Wind Probability



Tornado Probability



Pennies	Quarters	Golf Balls	Baseballs
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< 60 mph	60-70 mph	70-80 mph	>80 mph
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Very Low	Low	Moderate	High
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Thunderstorm Timeline Today

April 2, 2025
5:29 AM

There is potential for dissipation of storms this morning

6 am - 8 am: Line of storms moves into the I-49 corridor.

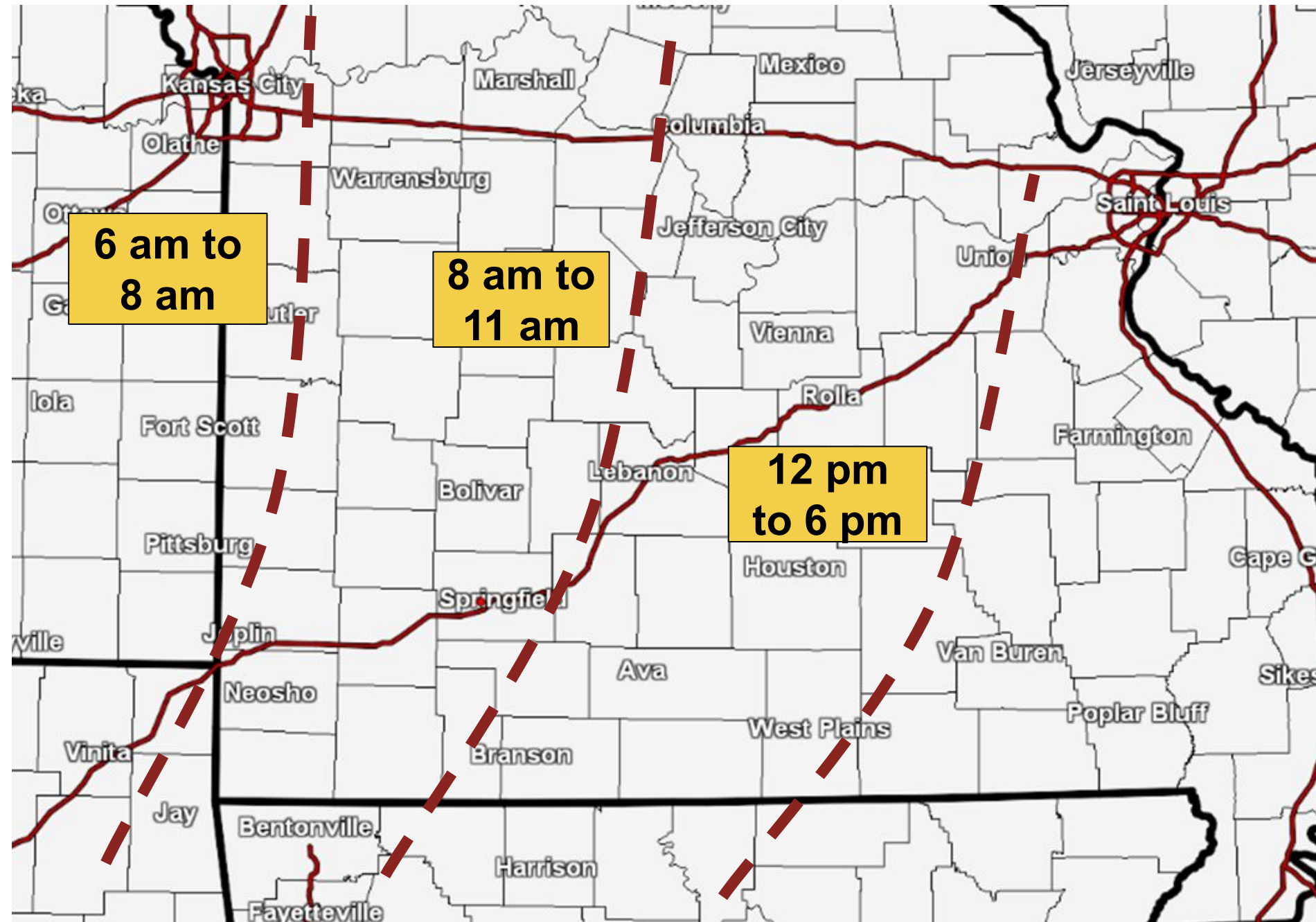
Hazards: Damaging wind gusts up to 60-70 mph. Large hail up to half dollars. A brief tornado or two.

8 am - 11 am: Line of storms starts to slow down. Potential for storms to begin to dissipate.

Hazards: Damaging wind gusts up to 60 mph. Large hail up to half dollars. A brief tornado or two.

12 pm - 6 pm: Line of storms slows down a lot, with potential redevelopment and re-intensification.

Hazards: Damaging wind gusts up to 60-80 mph. Large hail up to golf balls. A couple tornadoes.





Confidence Levels for Today

April 2, 2025
5:29 AM

Threats will vary based on storm mode and coverage

Confidence on Location



Confidence on Timing



Confidence in Severe Occurrence



Confidence in Flooding Occurrence



Confidence Details

- There is some uncertainty in how well the line holds together this morning as it moves from southeast Kansas into the Springfield area.
- There is high confidence in the timing of storms as they will mainly be just ahead of the slow-moving front.
- The environment will be conducive of all hazards, the most likely hazards will be determined by storm mode and coverage which is still uncertain at this time.

Alternate Scenarios

- Given current radar trends, if the line holds together as it reaches our area, damaging winds and brief tornadoes will be the main hazards. If the line breaks up and/or embedded supercells become apparent, all hazards will then be possible, some significant.
- Even if storms dissipate this morning, redevelopment is still possible this afternoon as the front moves across Highway 63.



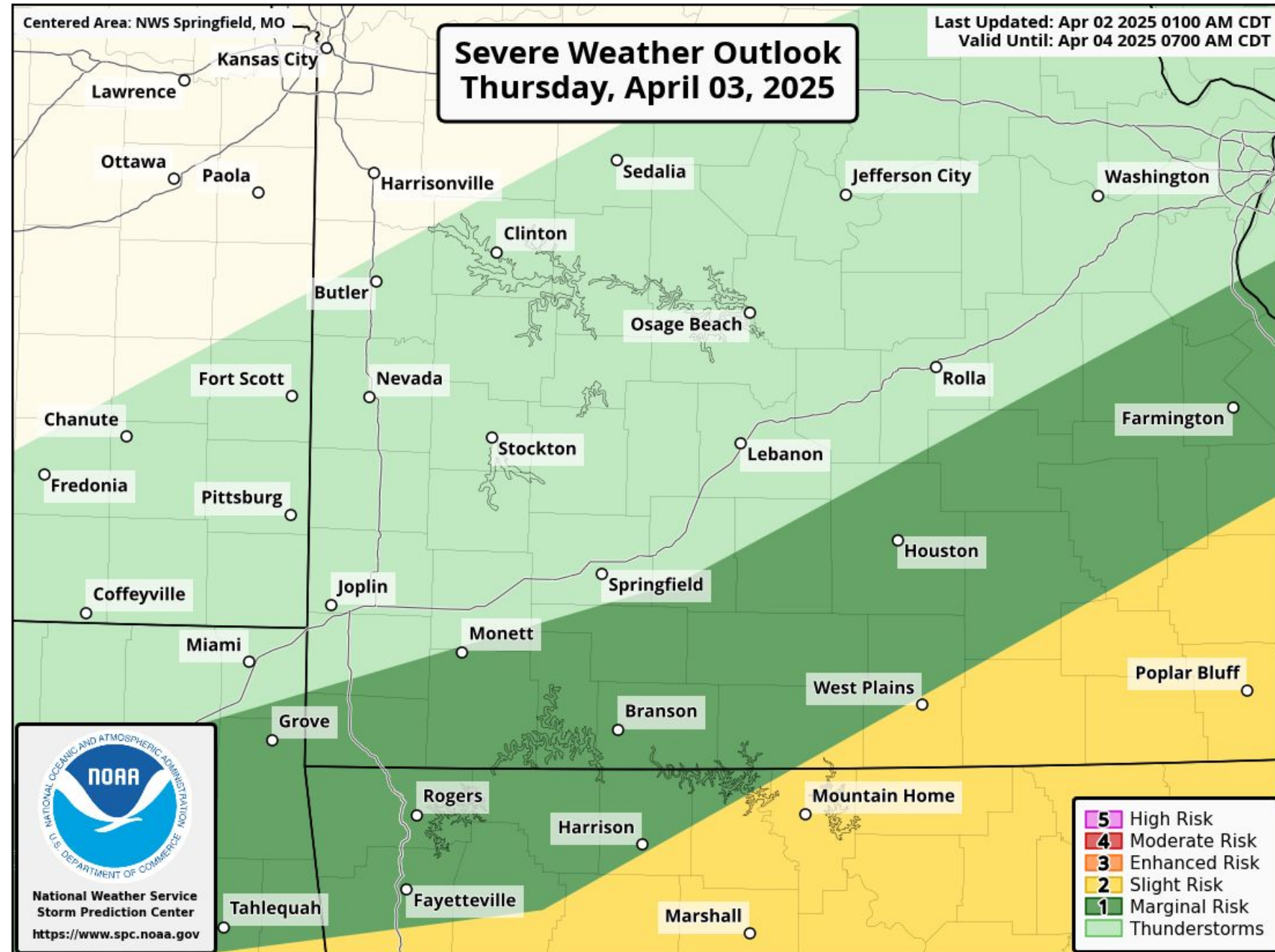
Marginal to Slight Risk Thursday

April 2, 2025
5:29 AM

In addition to heavy rainfall

Key Points

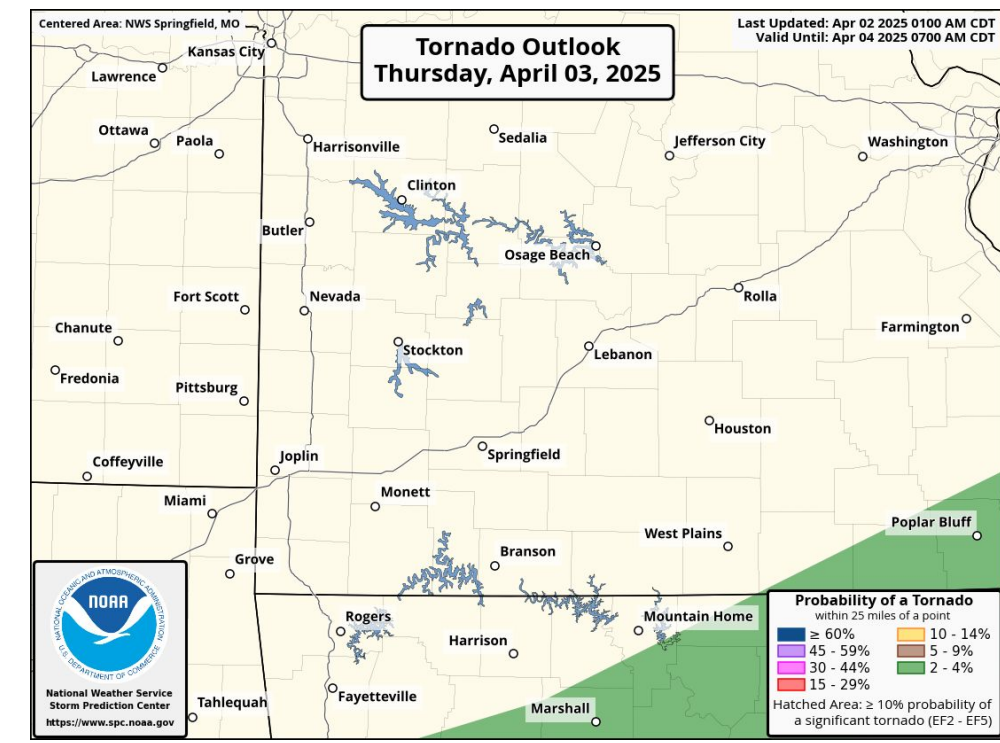
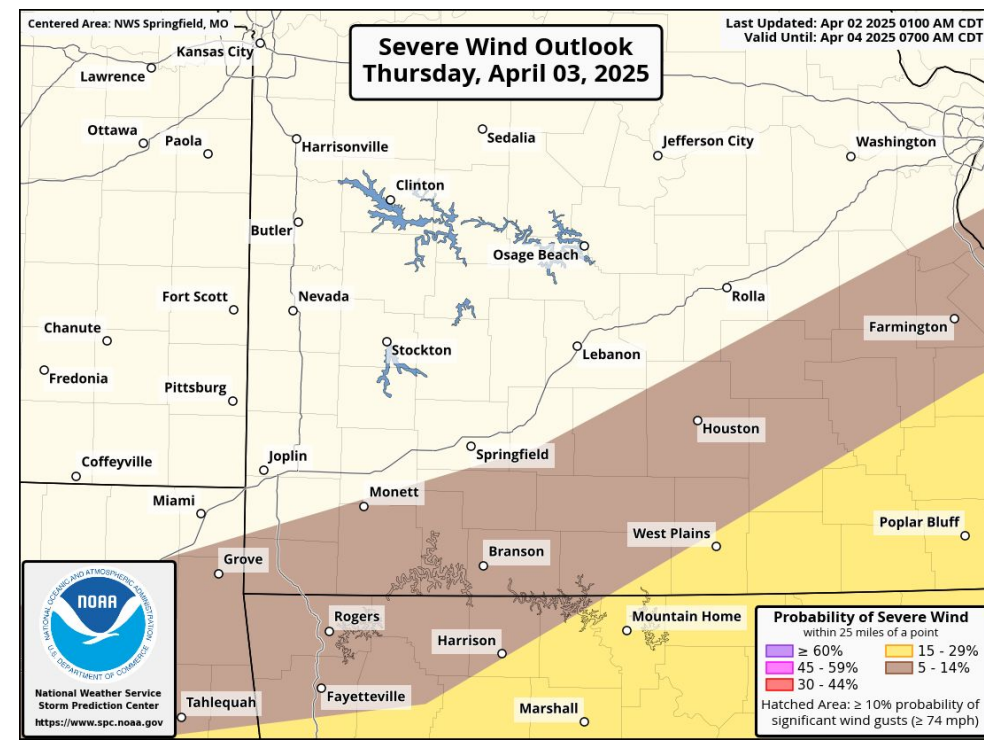
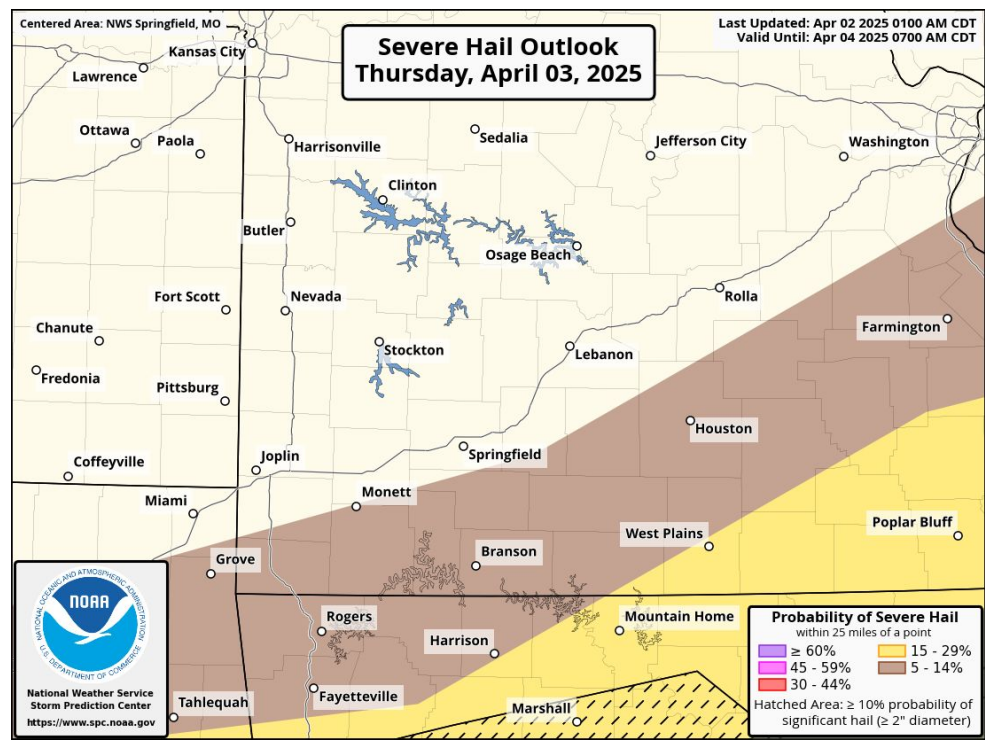
- In addition to the beginning of persistent heavy rainfall, enough instability and shear will be in place for some thunderstorms to become strong to severe Thursday.
- Since we will be on the cool side of the front with elevated instability, large hail will be the main hazard, though damaging wind gusts cannot be ruled out.
- The chance for any storm to become severe will largely be present the whole time period.





Severe Hazard Probabilities Wednesday

April 2, 2025
5:29 AM



Hail Probability

Wind Probability

Tornado Probability

▼

Pennies	Quarters	Golf Balls	Baseballs
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▼

< 60 mph	60-70 mph	70-80 mph	>80 mph
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▼

Very Low	Low	Moderate	High
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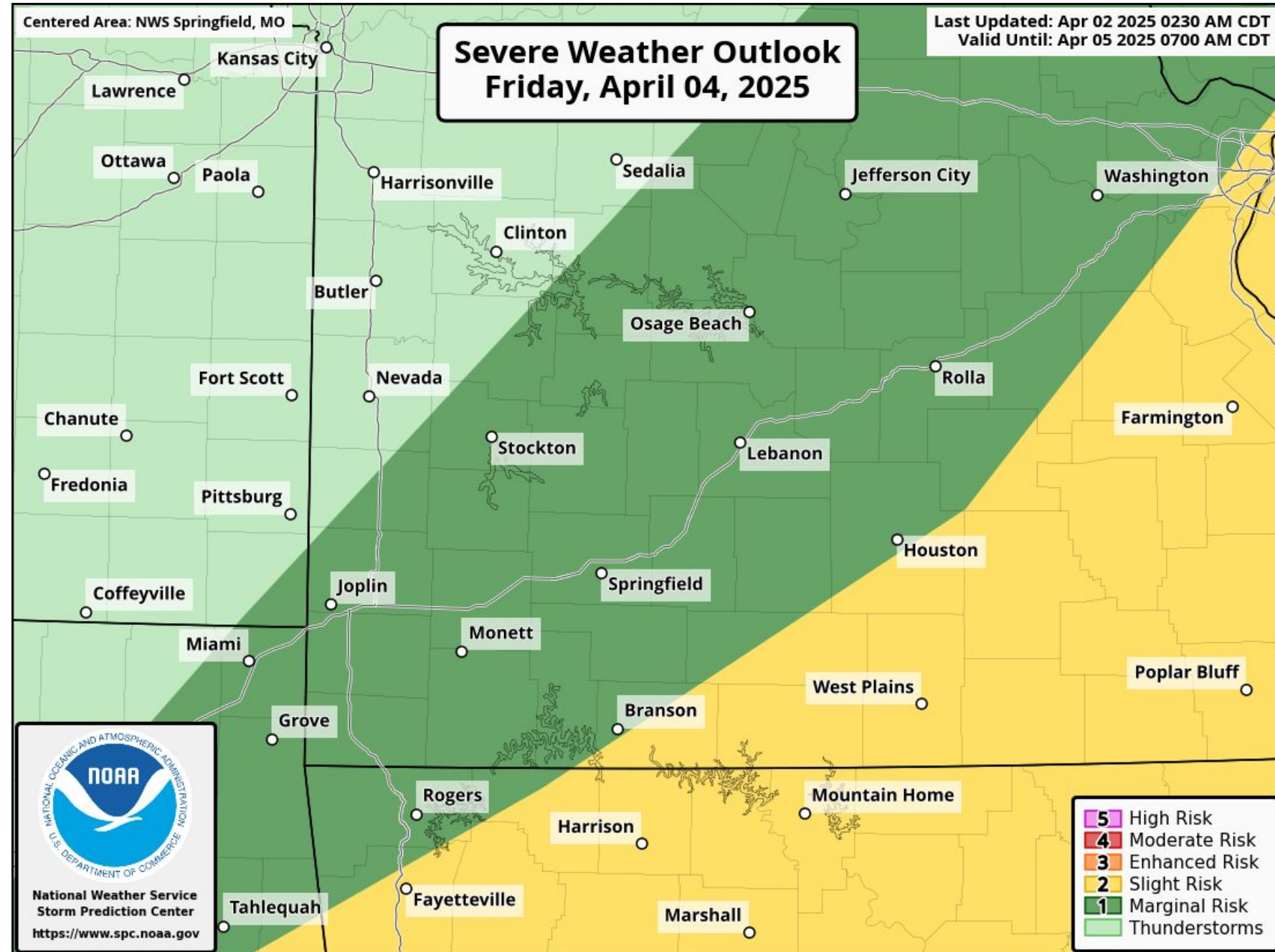
Marginal to Slight Risk Friday

April 2, 2025
5:29 AM

In addition to heavy rainfall

Key Points

- In addition to the beginning of persistent heavy rainfall, enough instability and shear will be in place for some thunderstorms to become strong to severe Friday.
- Since we will continue to be on the cool side of the front with elevated instability, large hail will be the main hazard, though damaging wind gusts cannot be ruled out.
- The chance for any storm to become severe will largely be present the whole time period.



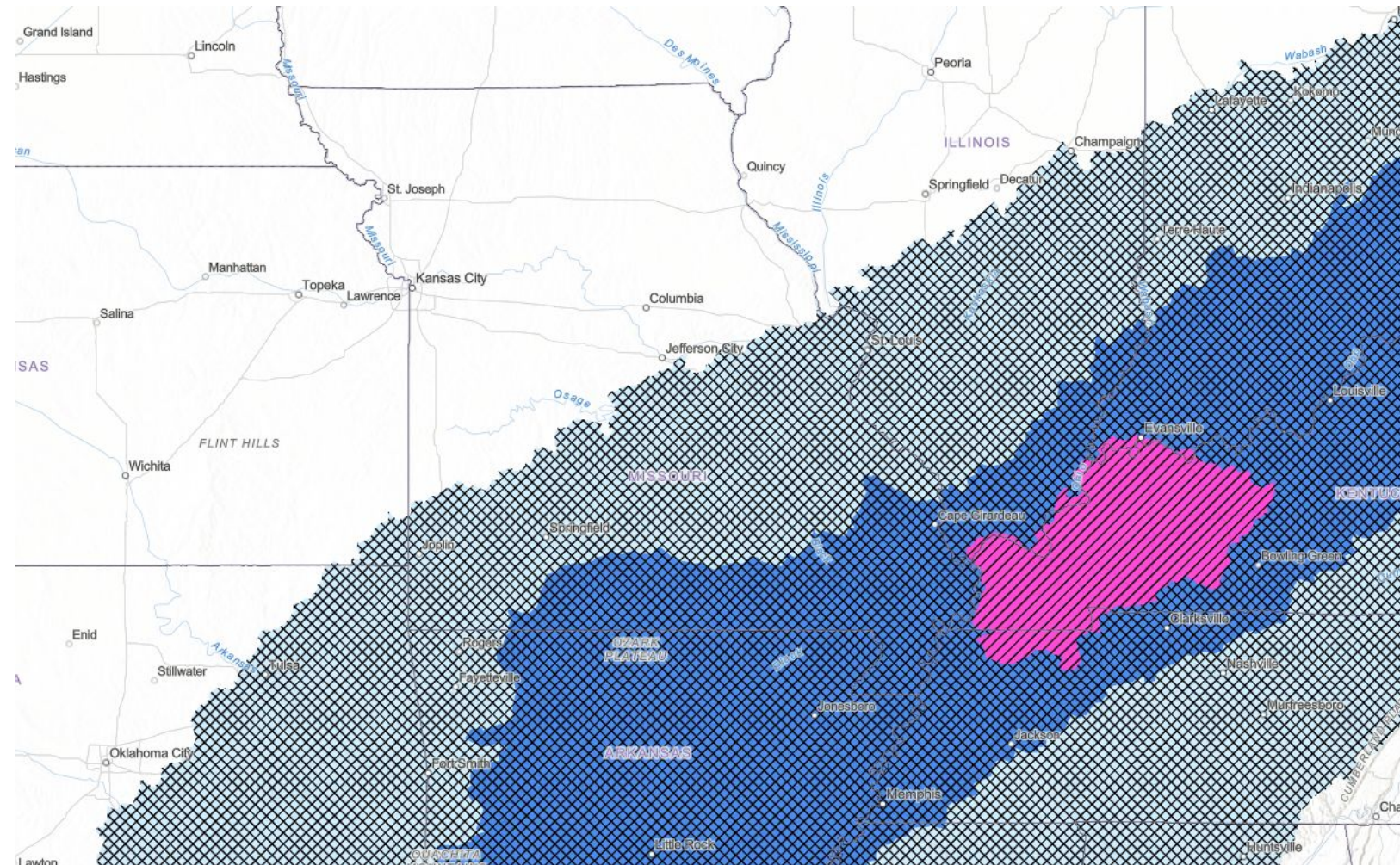


Late Week Flooding Potential

April 2, 2025
5:29 AM

Key Points

- Several rounds of heavy rainfall look to occur today through Saturday.
- Several inches of rainfall could add up which would cause flash flooding and increased river levels.
- Considerable flash, urban and small stream flooding is expected as close as southeast Missouri.
- The highest confidence for widespread significant river flooding (moderate and major) is from the eastern Ozarks through the Lower Ohio Valley.



Issued Time
2025-04-01 12:00 UTC

Legend

Potential Flooding Impacts

- Catastrophic
- Considerable
- Limited
- See Text

Timing

- Through Day 3
- Days 4-7
- Through Day 7

Official Forecast Points

- Major Flood
- Moderate Flood
- Minor Flood

Experimental Flood Hazard Outlook (Late Week)



Flood Watch

April 2, 2025

5:29 AM

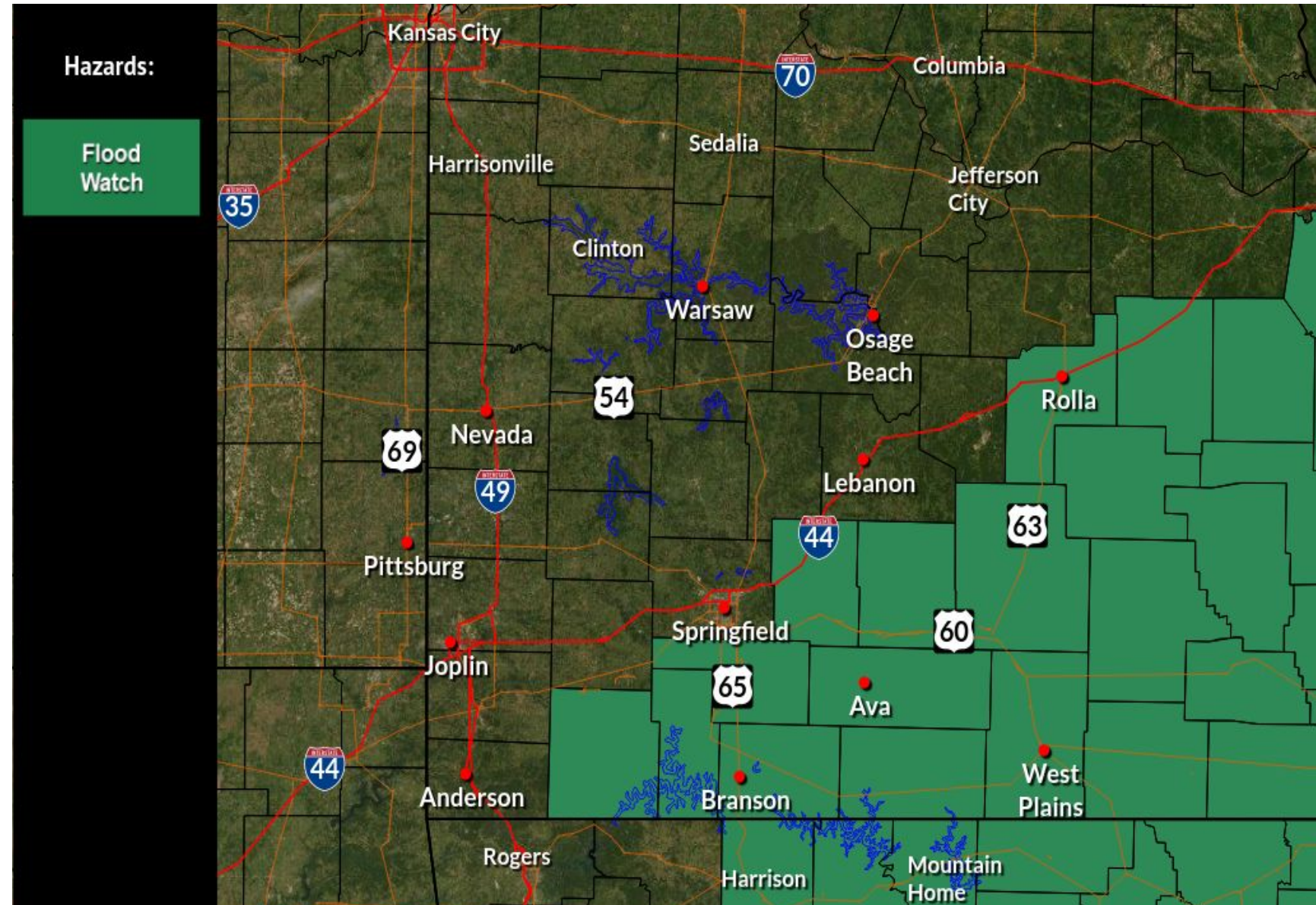
Thursday Morning - Saturday Evening

What

Confidence continues to increase in heavy rainfall and flooding late this week into the weekend. Heavy rainfall amounts of at least 3 to 5 inches, with higher amounts of 6 to 10 inches will be possible within the flood watch, as it could result in significant flooding and flash flooding. The timeframe for highest confidence is Friday afternoon through Saturday evening. The Flood Watch may need to be expanded north and west if confidence increases.

When

Begin	Peak	End
Tonight	Friday Night and Saturday	Sunday



Flood Watch Thursday AM Through Saturday PM



Excessive Rainfall Outlooks

April 2, 2025
5:29 AM

Today

What

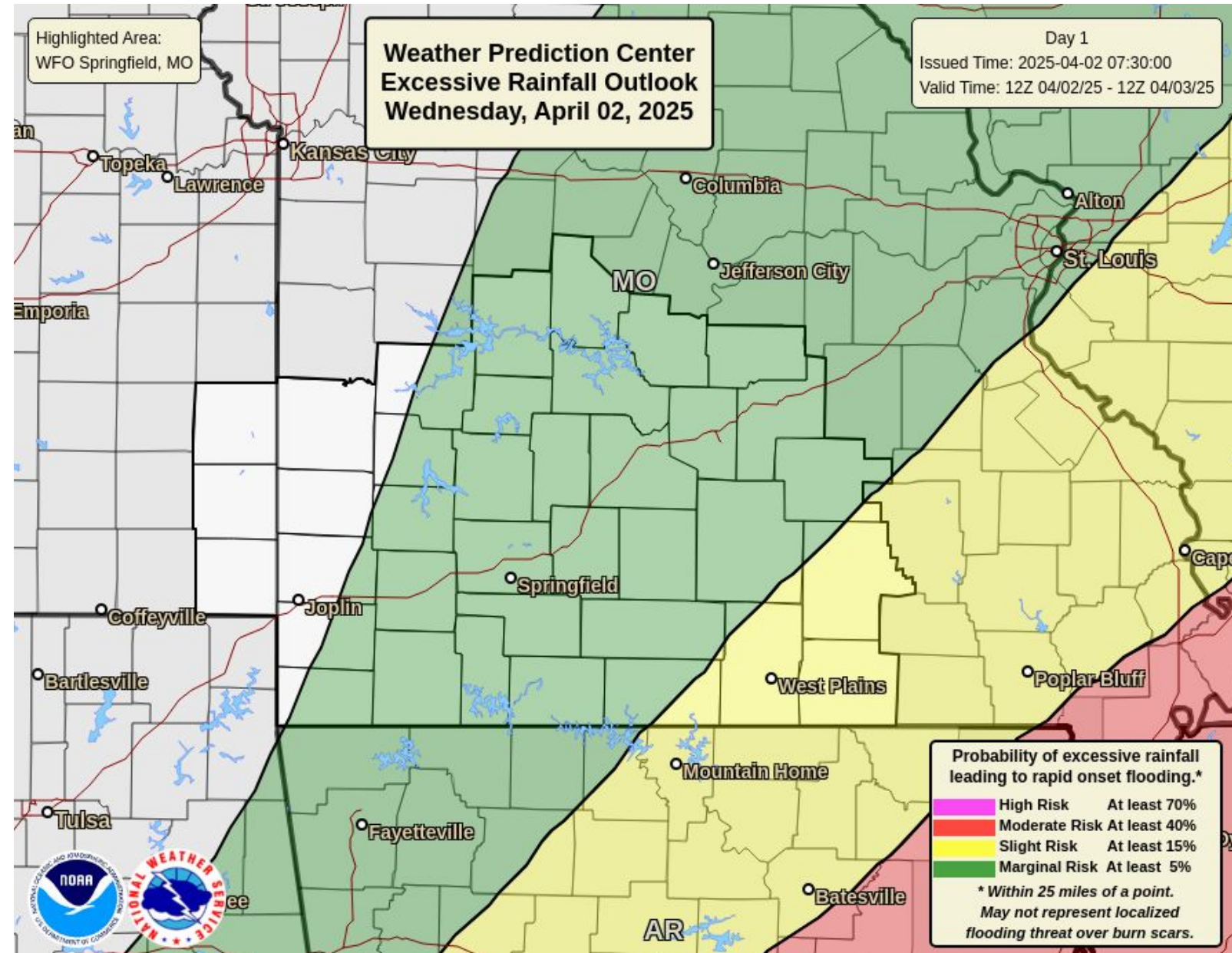
- There is a Marginal to Slight Risk (1-2/4) for excessive rainfall. This could cause localized flooding.

Where

- Highest chances are from West Plains and points south and east.

When

- As storms move over same areas Wednesday afternoon through Wednesday night.



Wednesday - Wednesday Night





Excessive Rainfall Outlooks

April 2, 2025
5:29 AM

Thursday - Thursday Night

What

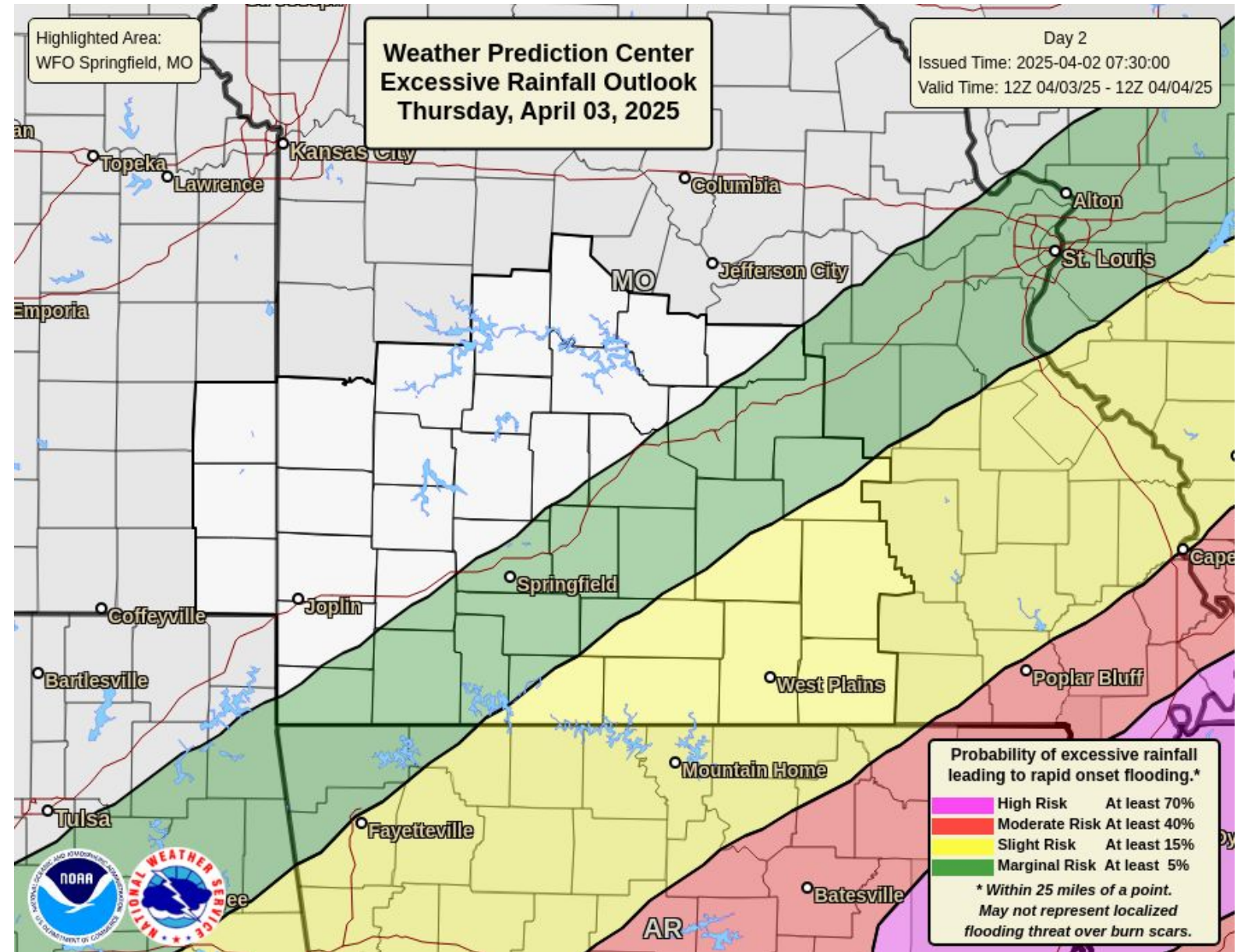
- Several inches of rainfall could occur from repeated rounds of thunderstorms. This would cause flash flooding and increased river levels.

Where

- Highest chances of excessive rainfall and flooding are southeast of Springfield across south central Missouri.

When

- Additional rounds Thursday night and again Friday and Saturday.



Thursday - Thursday Night

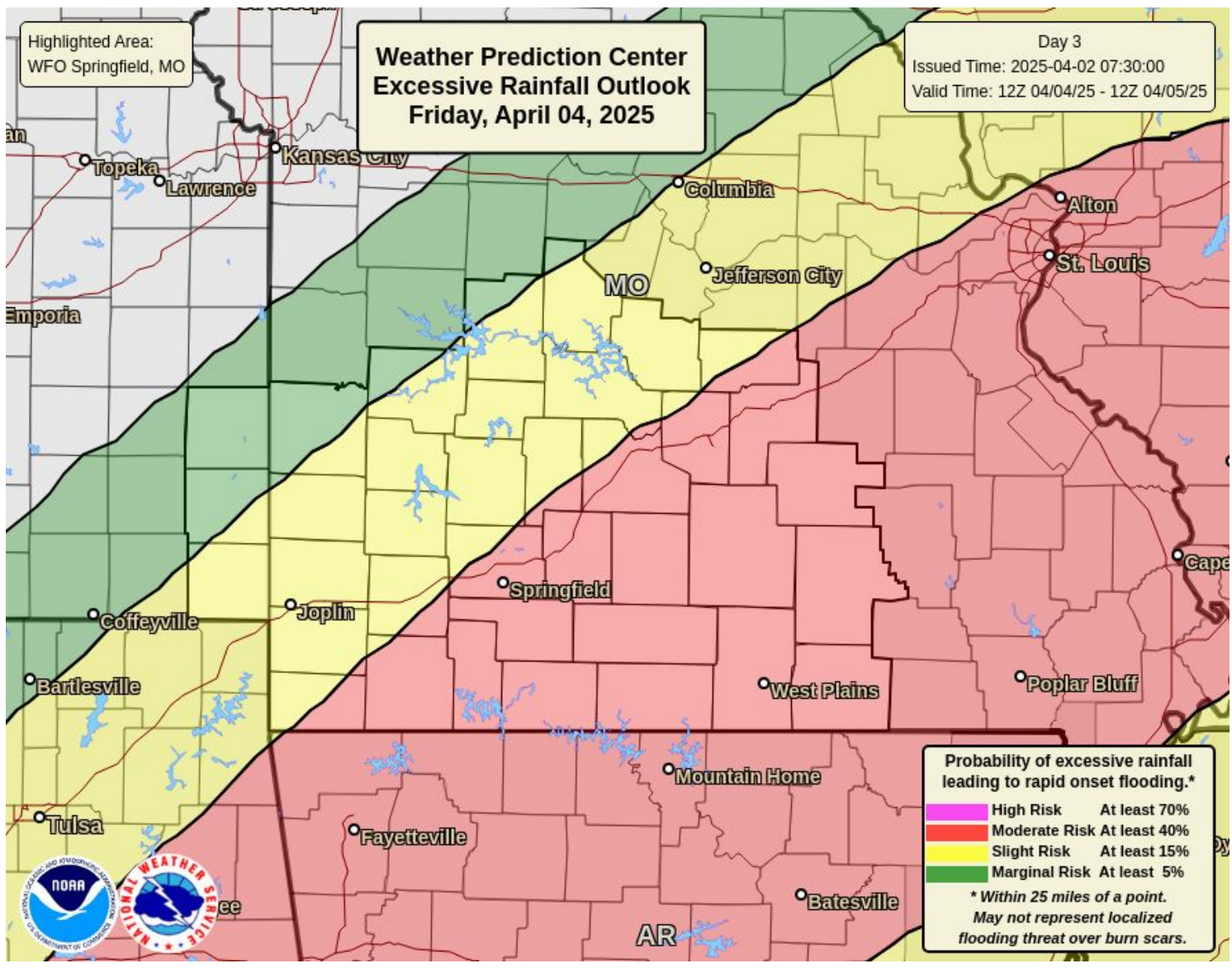




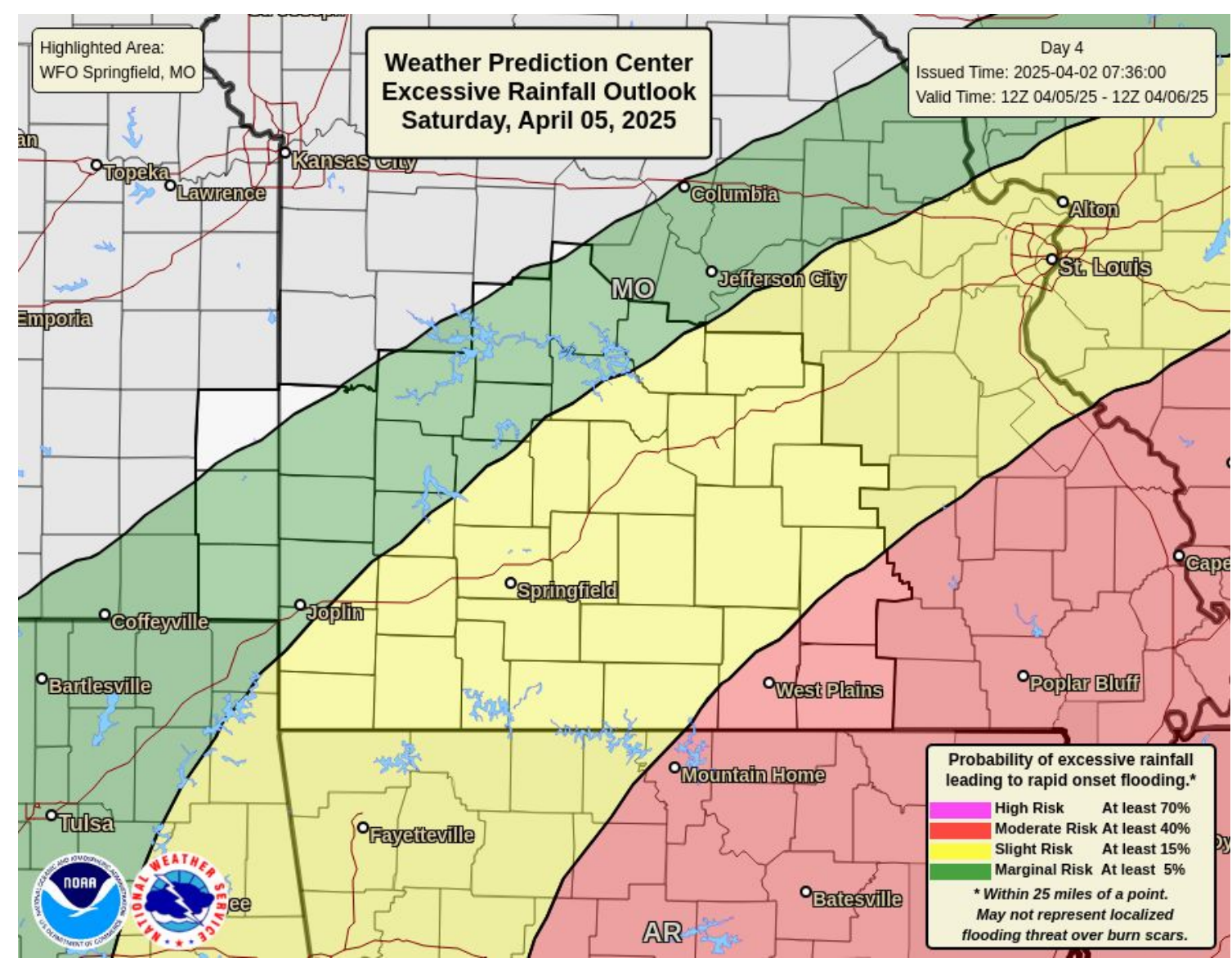
Excessive Rainfall Outlooks

April 2, 2025
5:29 AM

Likely the most impactful days will be Friday and Saturday



Friday - Friday Night



Saturday - Saturday Night

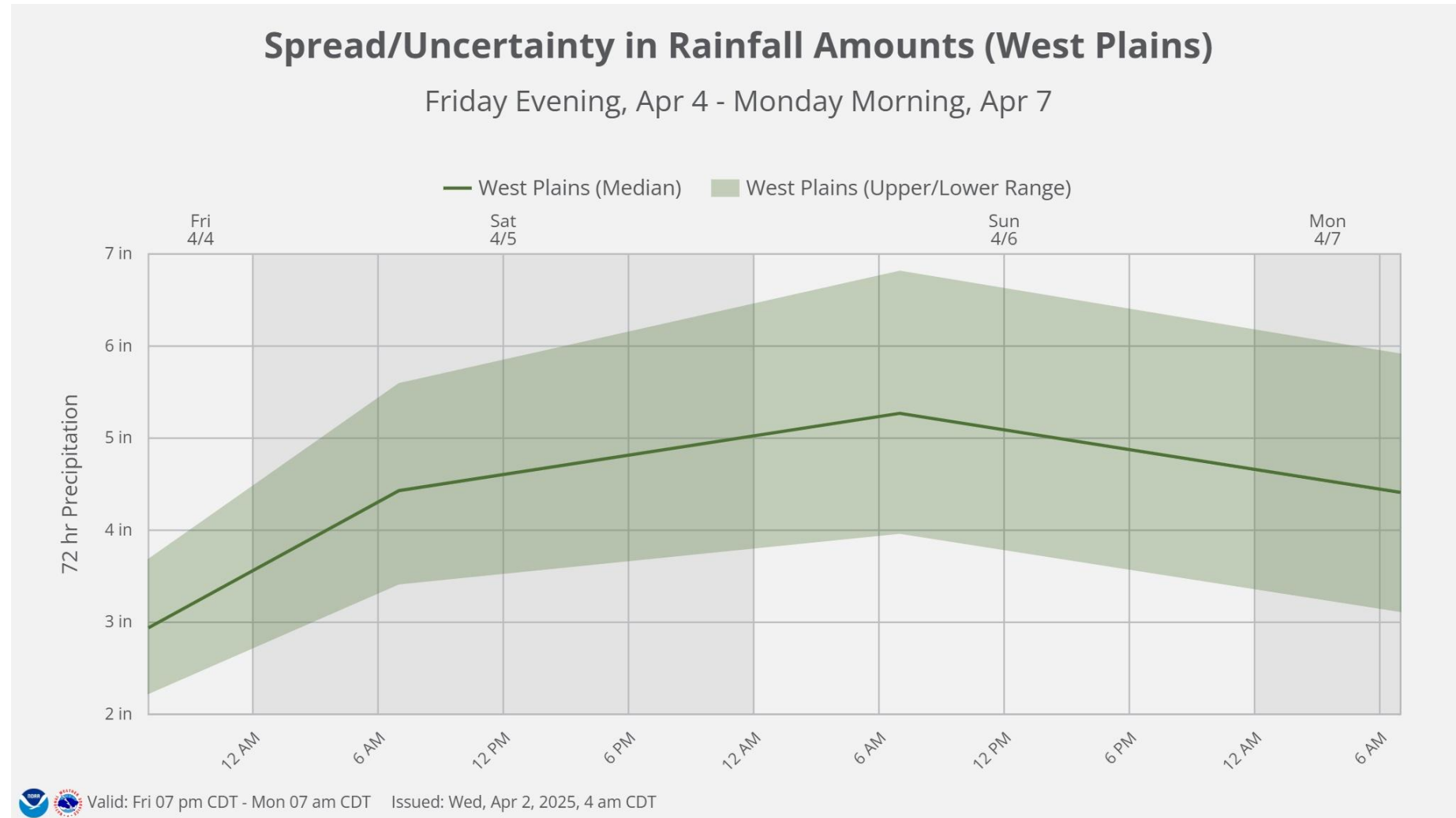


High Uncertainty/Spread in Rain Amounts

April 2, 2025
5:29 AM

Highlights

- The pattern suggests heavy rainfall occurring near or just southeast of the area late week into the weekend.
- While the spread has decreased some, there remains a several inch spread in rainfall amounts on the northwest edge of this system.
 - ◆ West Plains example to the right shows the spread in total rainfall amounts with either 4 inches or potentially up to 7 inches occurring by the weekend.
- Confidence in rainfall amounts will increase as we head through the week and get into the high resolution model window.



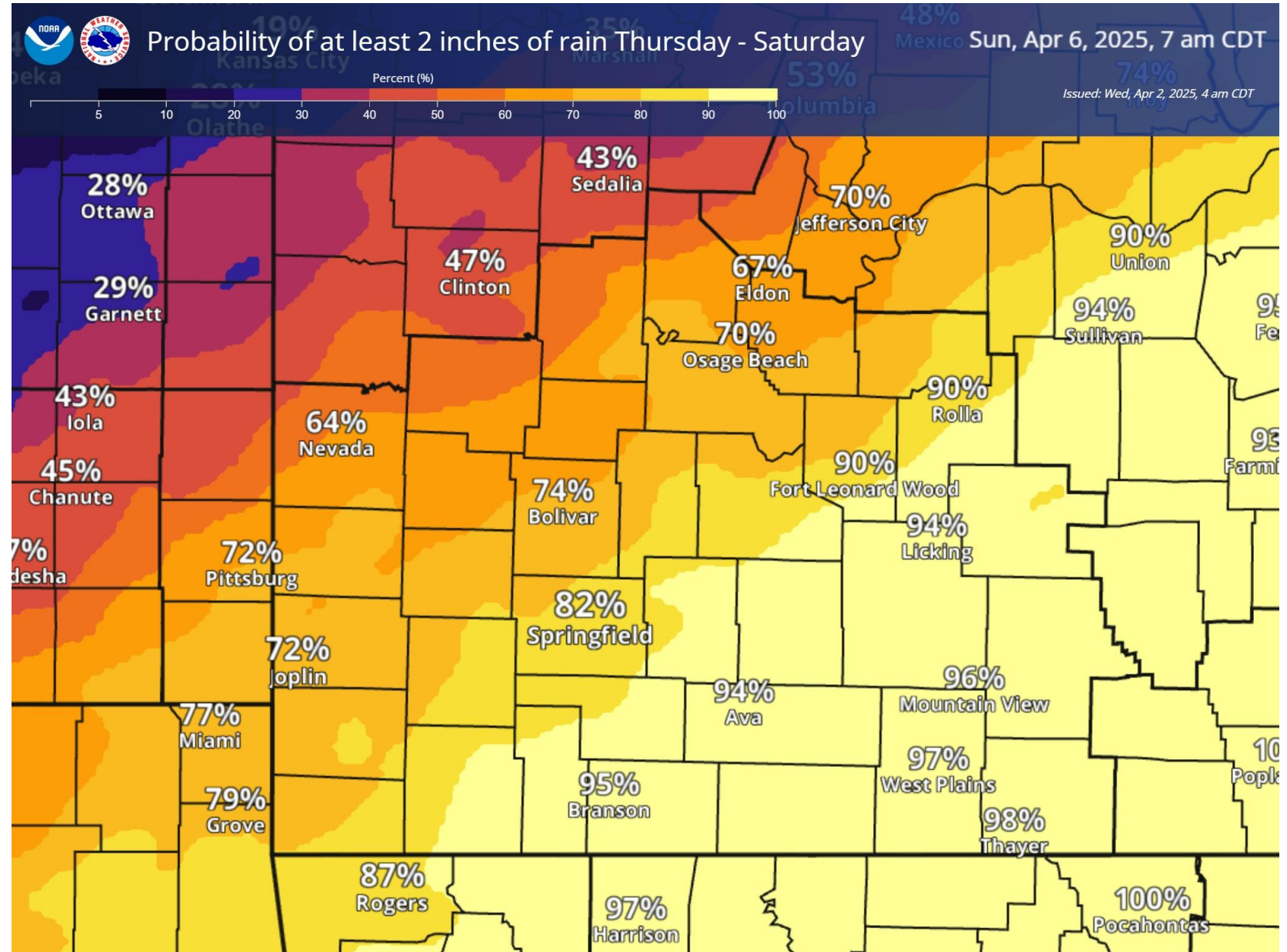


Probabilistic Rainfall Amounts

April 2, 2025
5:29 AM

Highlights

- The probabilities for 2 inches (this slide) and 4in/6in (following slides) of rainfall Thursday through Saturday are highest from south central Missouri and points southeast.
- This axis of heavy rainfall potential could still shift/change as we head through the week.

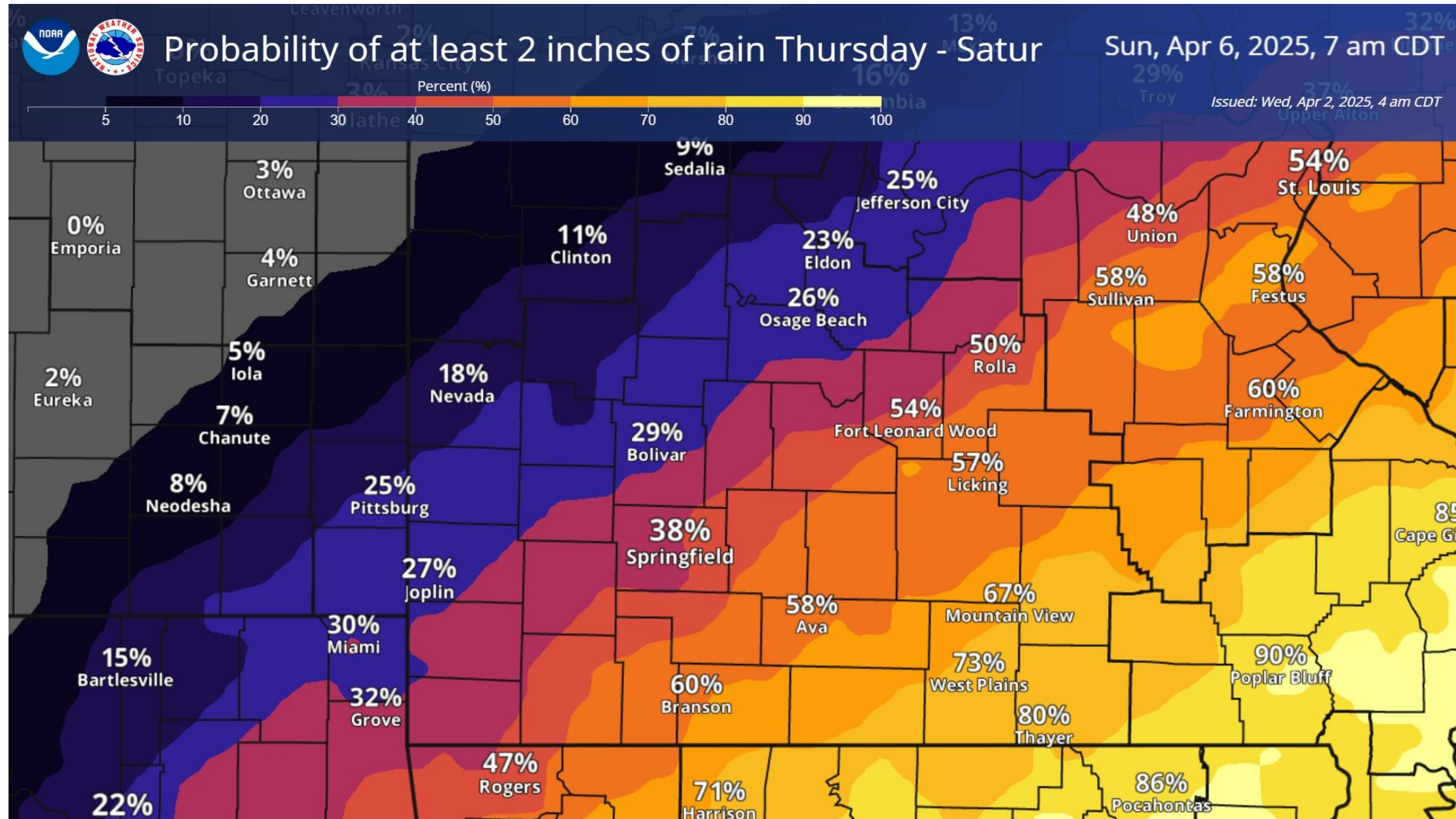


Probability of > 2.0" of rainfall (Thursday - Saturday)



Probabilistic Rainfall Amounts

April 2, 2025
5:29 AM

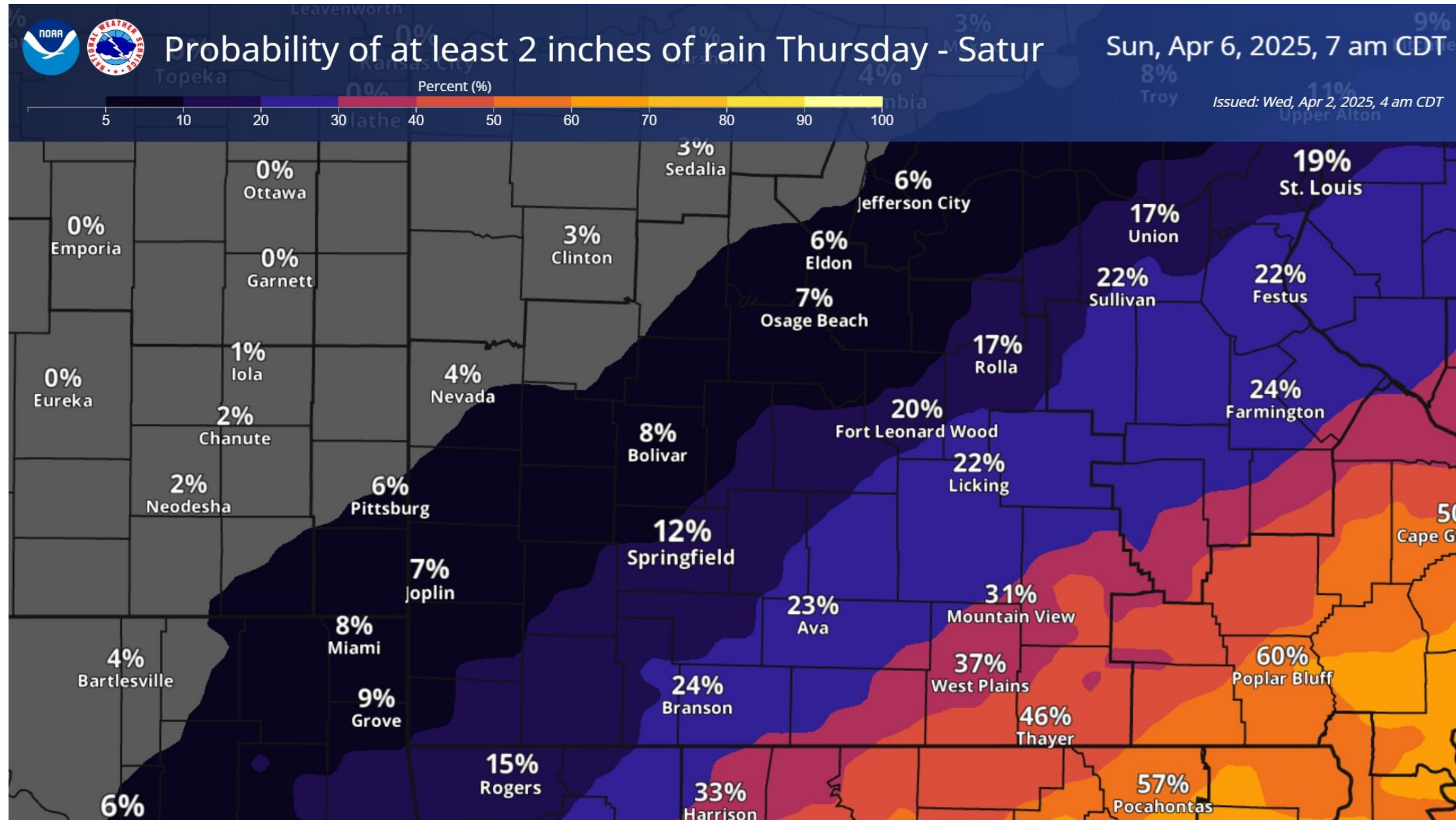


Probability of > 4.0" of rainfall (Thursday through Saturday)

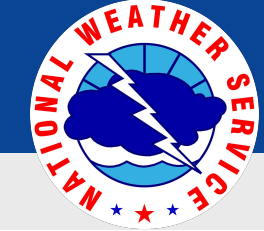


Probabilistic Rainfall Amounts

April 2, 2025
5:29 AM



Probability of > 6.0" of rainfall (Thursday through Saturday)



River Flood Potential

April 2, 2025
5:29 AM

Probability of Exceeding a Certain Flood Stage

Highest Potential for Exceeding Flood Stage

	Action	Minor	Moderate	Major
Current River at Powder Mill	6 ft: >95%	8 ft: >95%	25 ft: 49%	40 ft: 13%
Jacks Fork at Alley Spring	5.3 ft: >95%	9 ft: 94%	12 ft: 69%	16 ft: 17%
Jacks Fork at Eminence	6.4 ft: >95%	12 ft: 67%	15 ft: 36%	20 ft: 15%
Big Piney at Fort Wood East Gate	6 ft: 75%	8 ft: 62%	15 ft: 21%	23 ft: <5%
Gasconade River at Jerome	13 ft: 30%	15 ft: 22%	25 ft: <5%	30 ft: <5%
Gasconade River at Hazelgreen	19 ft: <5%	21 ft: <5%	26 ft: <5%	30 ft: <5%
Roubidoux Creek near Waynesville	6 ft: <5%	7 ft: <5%	14 ft: <5%	20 ft: <5%





River Flood Potential

April 2, 2025
5:29 AM

Highlights

- Long range ensemble forecasts are showing increasing percentages for action to minor flood stages across the Jacks Fork and Current River basins.
- The image to the right is not a hydrograph but instead a probability of occurrence for the Current River at Powder Mill, Missouri.
- There is now greater than a 95% chance of exceeding Action and Minor Flood Stage at this location within the next 10 days.
Confidence is increasing in the potential for exceeding Moderate or even Major Flood Stage
- Locations along creeks and rivers will need to monitor the situation closely later this week, especially southeast of Springfield.

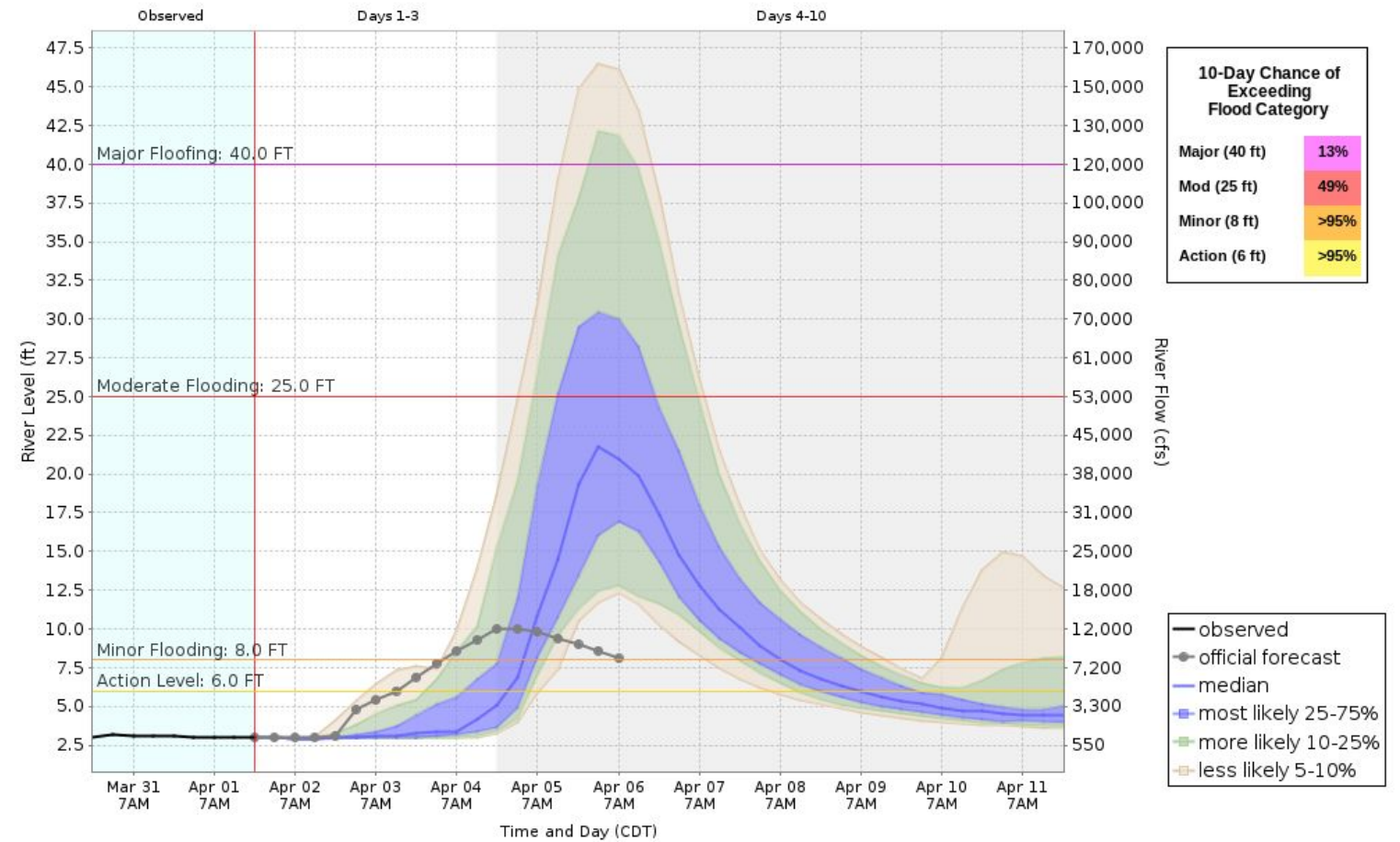
HEFS - 10 Day River Level Probabilities

Based on Hydrologic Ensemble Forecast Service Model Simulations
Used to Estimate the Range of Possible River Levels



Apr 02 - Apr 12, 2025

CURRENT RIVER AT POWDER MILL



Model runtime: 07:00 PM CDT Apr 01 2025
Lower Mississippi River Forecast Center

****Not a Hydrograph** - Probability of Occurrence**
Current River at Powder Mill



River Flood Potential

April 2, 2025
5:29 AM

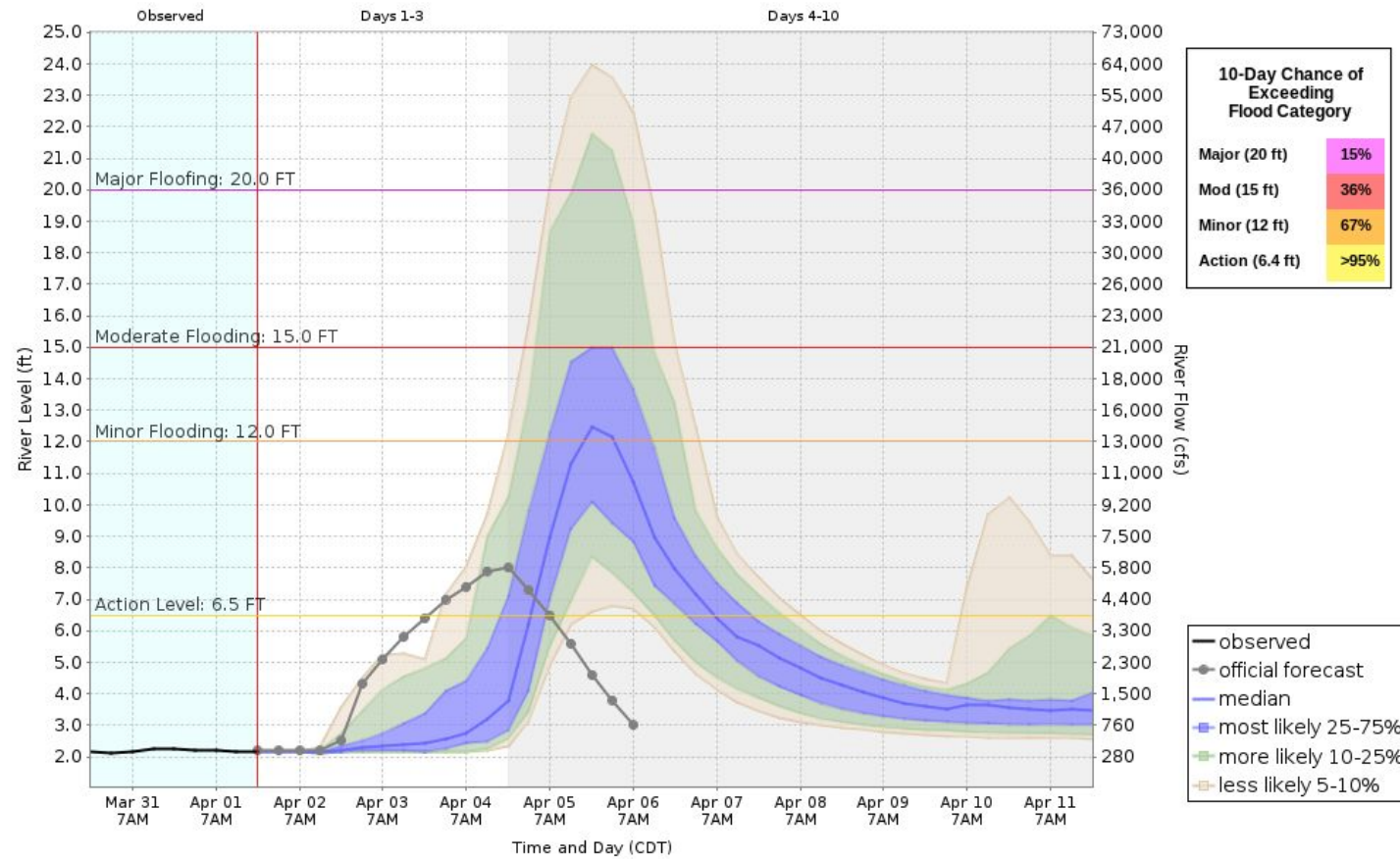
HEFS - 10 Day River Level Probabilities

Based on Hydrologic Ensemble Forecast Service Model Simulations
Used to Estimate the Range of Possible River Levels



Apr 02 - Apr 12, 2025

JACKS FORK RIVER AT EMINENCE



Model runtime: 07:00 PM CDT Apr 01 2025
Lower Mississippi River Forecast Center

****Not a Hydrograph** - Probability of Occurrence
Jacks Fork River at Eminence, Missouri**

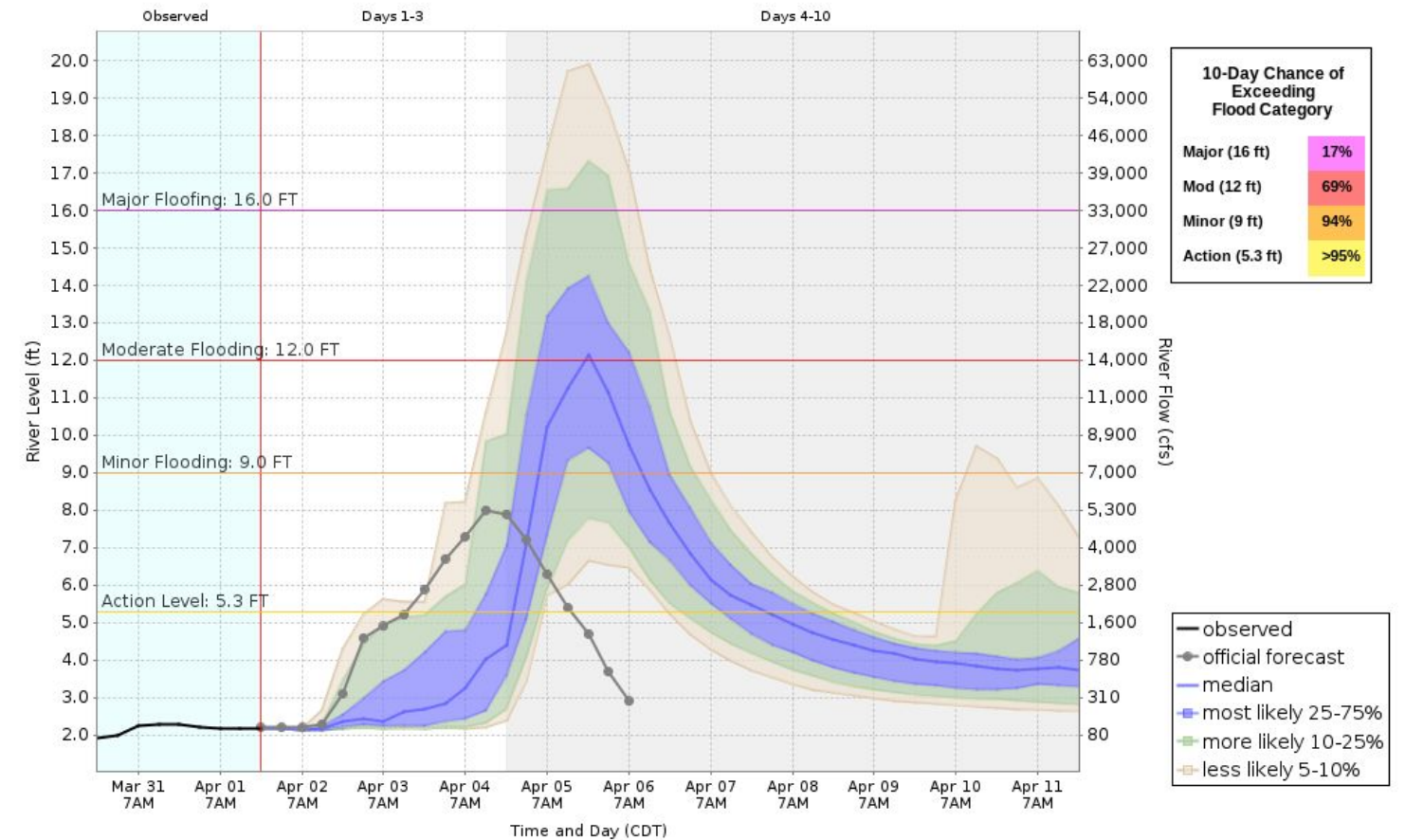
HEFS - 10 Day River Level Probabilities

Based on Hydrologic Ensemble Forecast Service Model Simulations
Used to Estimate the Range of Possible River Levels



Apr 02 - Apr 12, 2025

JACKS FORK RIVER AT ALLEY SPRING



Model runtime: 07:00 PM CDT Apr 01 2025
Lower Mississippi River Forecast Center

****Not a Hydrograph** - Probability of Occurrence
Jacks Fork River at Alley Spring, Missouri**



River Flood Potential

April 2, 2025
5:29 AM

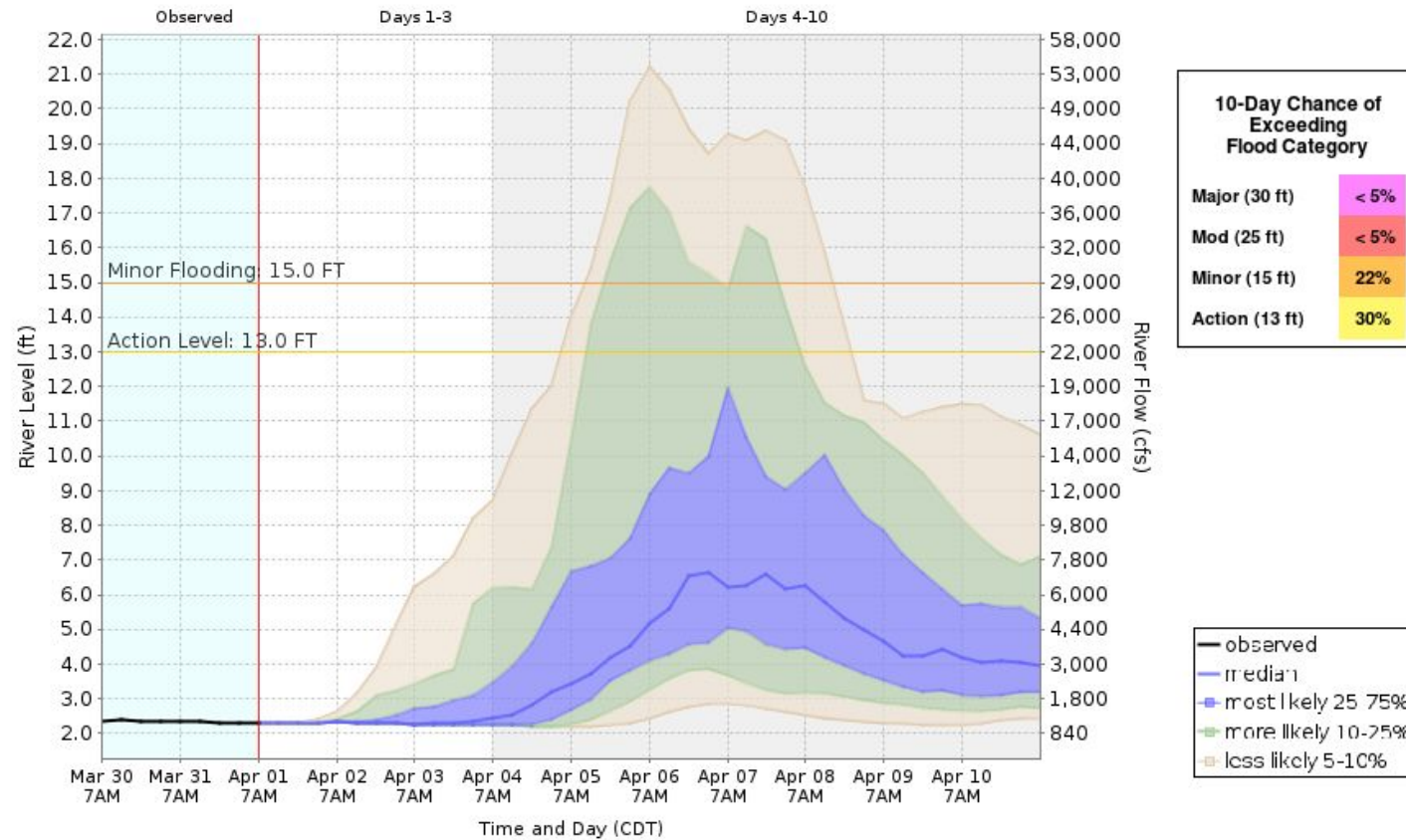
HEFS - 10 Day River Level Probabilities

Based on Hydrologic Ensemble Forecast Service Model Simulations
Used to Estimate the Range of Possible River Levels



Apr 01 - Apr 11, 2025

GASCONADE R at JEROME MO



Model runtime: 07:00 AM CDT Apr 01 2025
Missouri Basin River Forecast Center

****Not a Hydrograph** - Probability of Occurrence
Gasconade River at Jerome, Missouri**

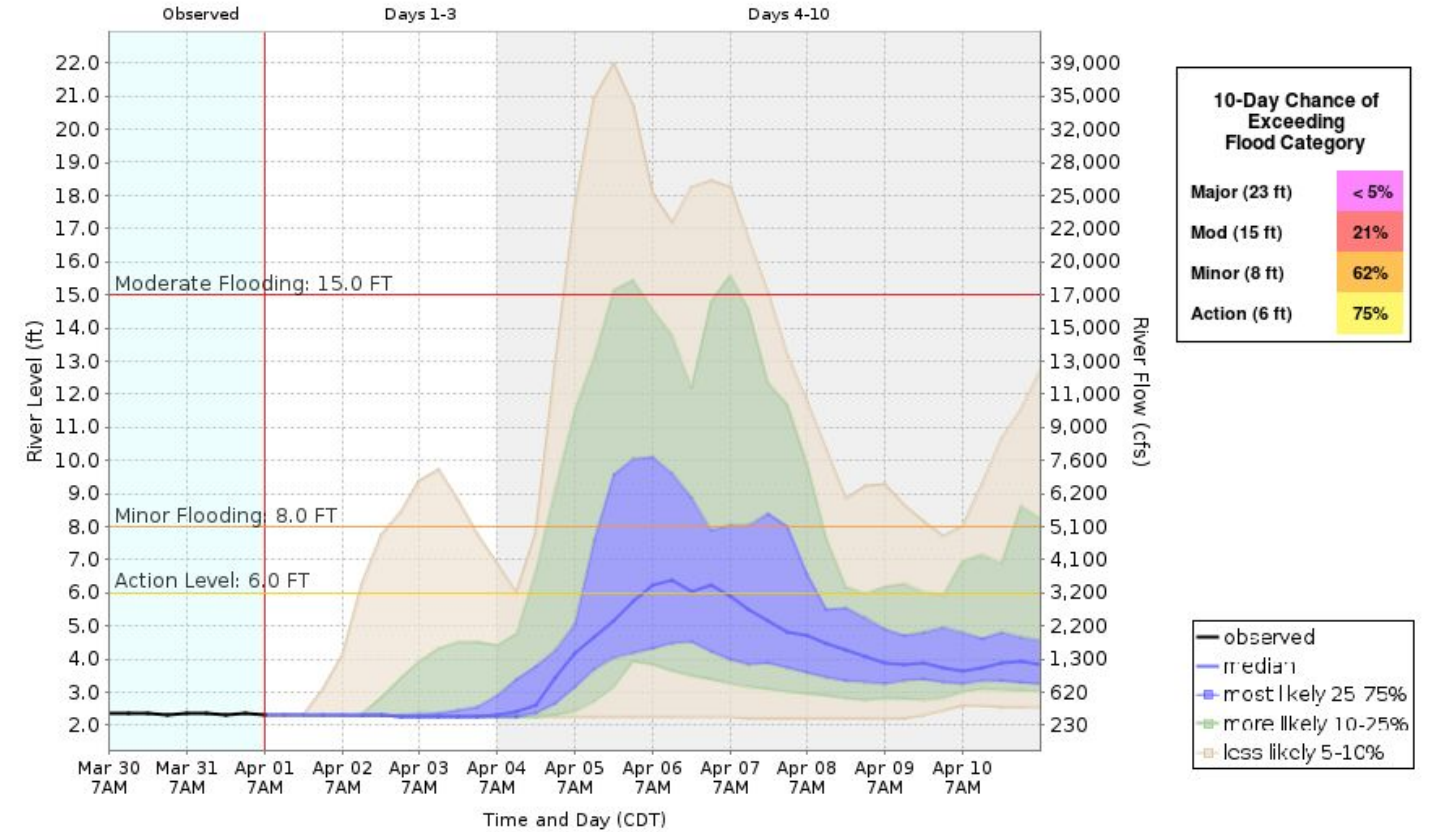
HEFS - 10 Day River Level Probabilities

Based on Hydrologic Ensemble Forecast Service Model Simulations
Used to Estimate the Range of Possible River Levels



Apr 01 - Apr 11, 2025

BIG PINEY R at FT WOOD EAST GATE MO



Model runtime: 07:00 AM CDT Apr 01 2025
Missouri Basin River Forecast Center

****Not a Hydrograph** - Probability of Occurrence
Big Piney River at Ft Wood, Missouri**



River Flood Potential

April 2, 2025
5:29 AM

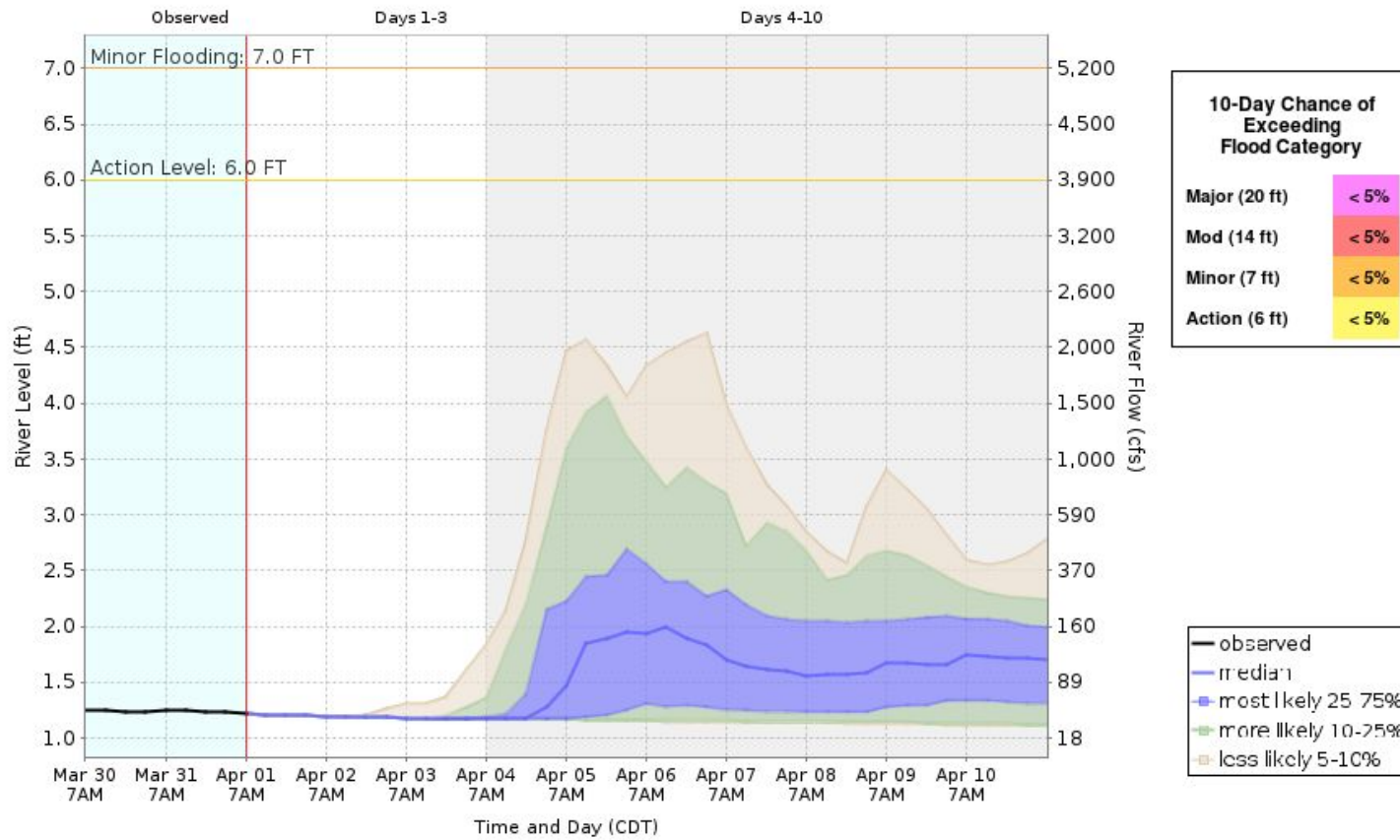
HEFS - 10 Day River Level Probabilities

Based on Hydrologic Ensemble Forecast Service Model Simulations
Used to Estimate the Range of Possible River Levels



Apr 01 - Apr 11, 2025

ROUBIDOUX CR Below FT LNRD WOOD MO



Model runtime: 07:00 AM CDT Apr 01 2025
Missouri Basin River Forecast Center

****Not a Hydrograph** - Probability of Occurrence
Roubidoux Creek near Waynesville, Missouri**

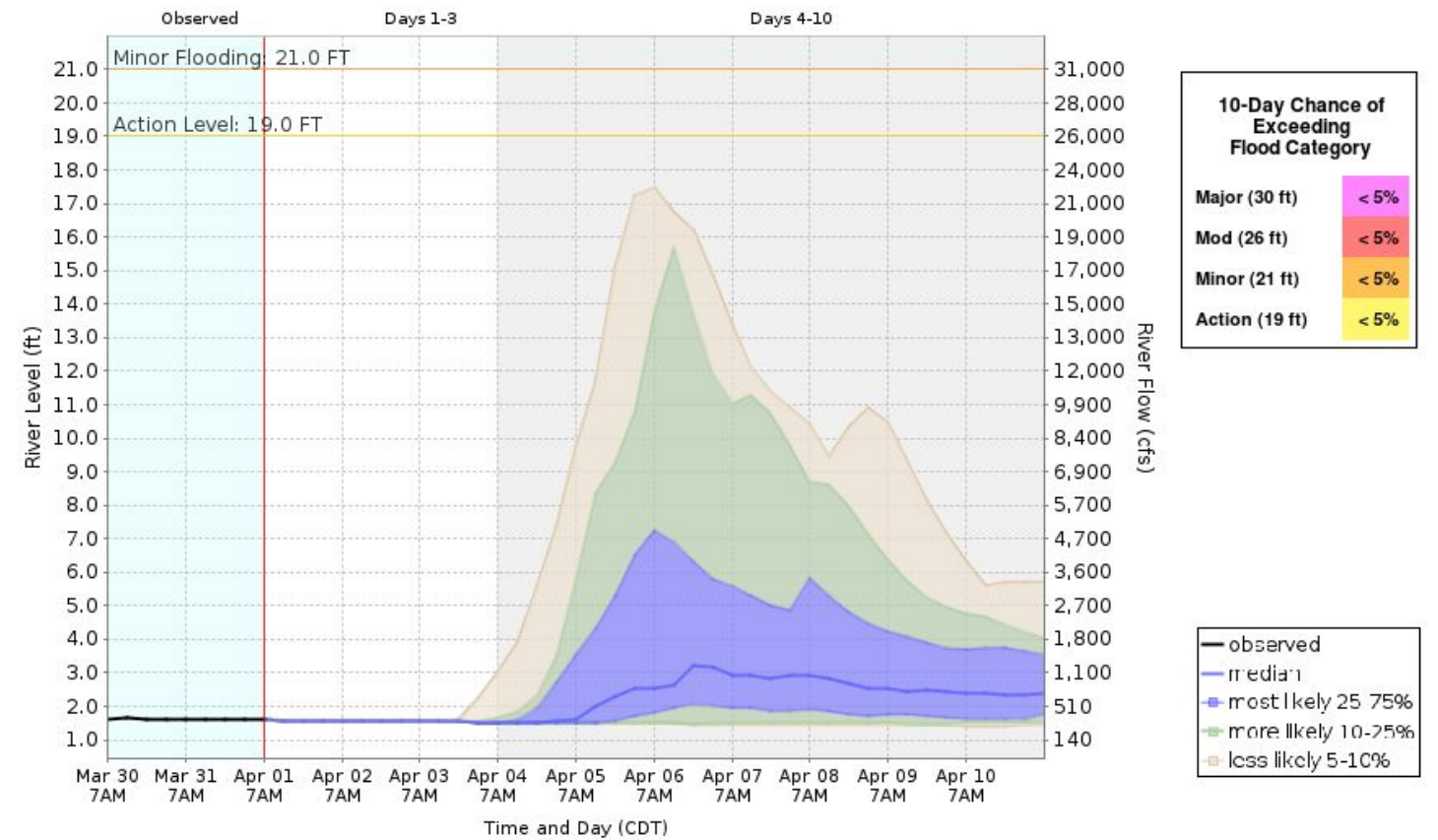
HEFS - 10 Day River Level Probabilities

Based on Hydrologic Ensemble Forecast Service Model Simulations
Used to Estimate the Range of Possible River Levels



Apr 01 - Apr 11, 2025

GASCONADE R at HAZELGREEN MO



Model runtime: 07:00 AM CDT Apr 01 2025
Missouri Basin River Forecast Center

****Not a Hydrograph** - Probability of Occurrence
Gasconade River at Hazelgreen, Missouri**



Additional Resources

April 2, 2025
5:29 AM

For Additional Information

- [NWS Springfield Webpage](#)
- [IDSS Point Forecasts](#)
- [Graphical Hazardous Weather Outlook](#)
- [SPC Convective Outlooks](#)
- [WPC Excessive Rainfall Outlooks](#)
- [WPC Precipitation Outlooks](#)
- [Submit Storm Reports](#)

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The infographic features a central NOAA logo and the text "Have multiple ways to get warnings weather.gov". It illustrates six methods: 1. Internet: A laptop with hands typing. 2. Local TV and Radio: A television showing a weather reporter. 3. Wireless Emergency Alerts and Weather Apps: A hand holding a smartphone. 4. Outdoor Sirens: A megaphone. 5. NOAA Weather Radio: A portable weather radio. 6. From your family, friends, and coworkers: Two speech bubbles.