



Severe Thunderstorm and Flooding Potential

April 30, 2025
3:11 PM

Through Thursday

Key Messages

- Potential for strong to severe storms through this evening. Hazards include damaging winds, large hail, and a brief tornado or two. Additional strong to severe storms possible Thursday afternoon over southeastern Missouri, with large hail and damaging winds possible.
- Potential for additional heavy rainfall and flooding through Thursday. A Flood Watch is in effect for the entire area through Thursday morning.

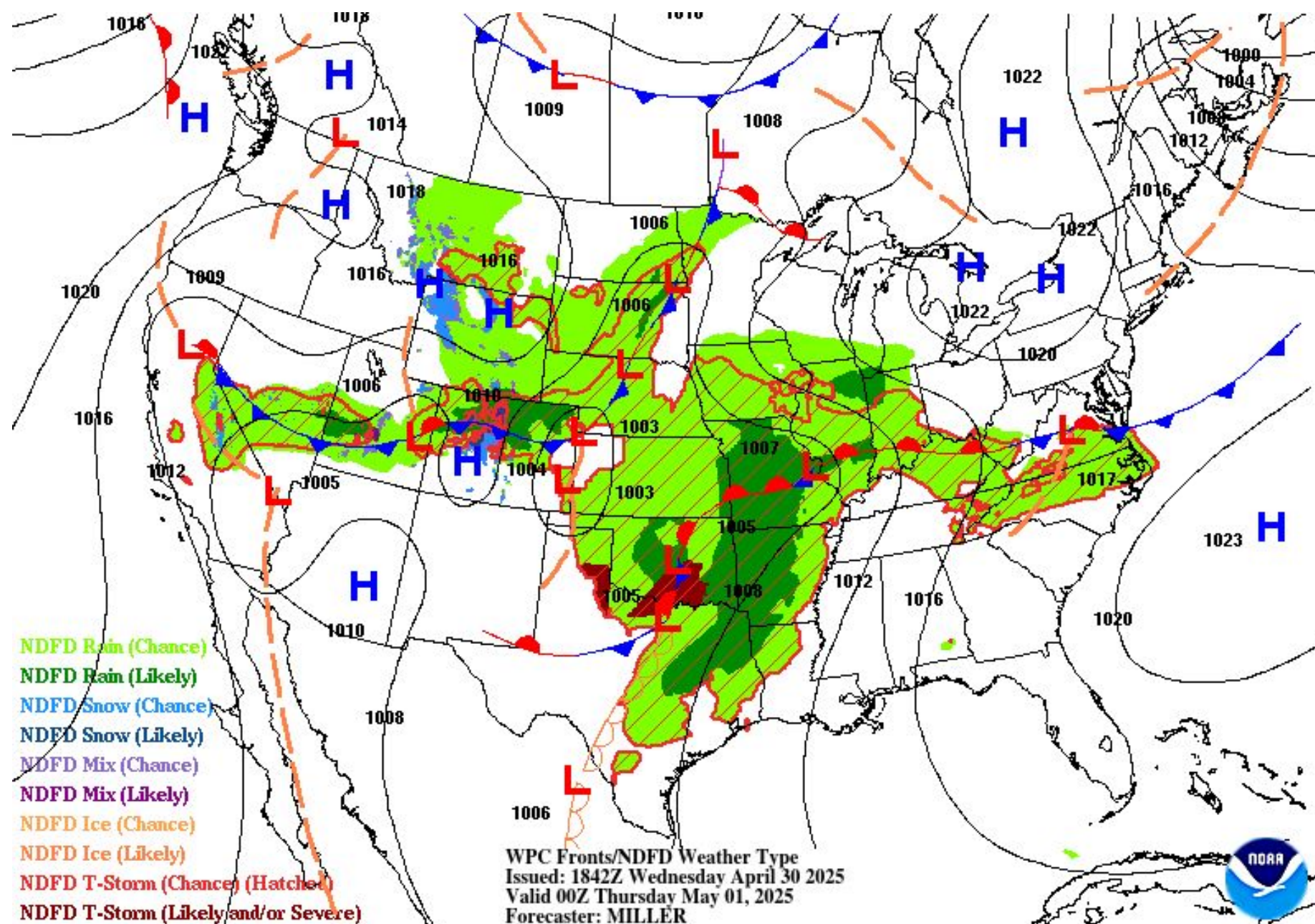
NEW

Important Updates

- Updated severe weather expectations
- Updated rainfall amounts

Next Scheduled Briefing

- By 5am Thursday, if needed.



National Oceanic and
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U.S. Department of Commerce

National Weather Service
Springfield, MO



Severe Weather Outlook Today

April 30, 2025
3:11 PM

Through This Evening

Overview

- Potential for a few strong to severe thunderstorms through this evening.
- Highest chances east of Highway 65.
- Possible hazard include large hail, damaging winds, and a brief tornado or two.

Severe Threats

 **Tornado**



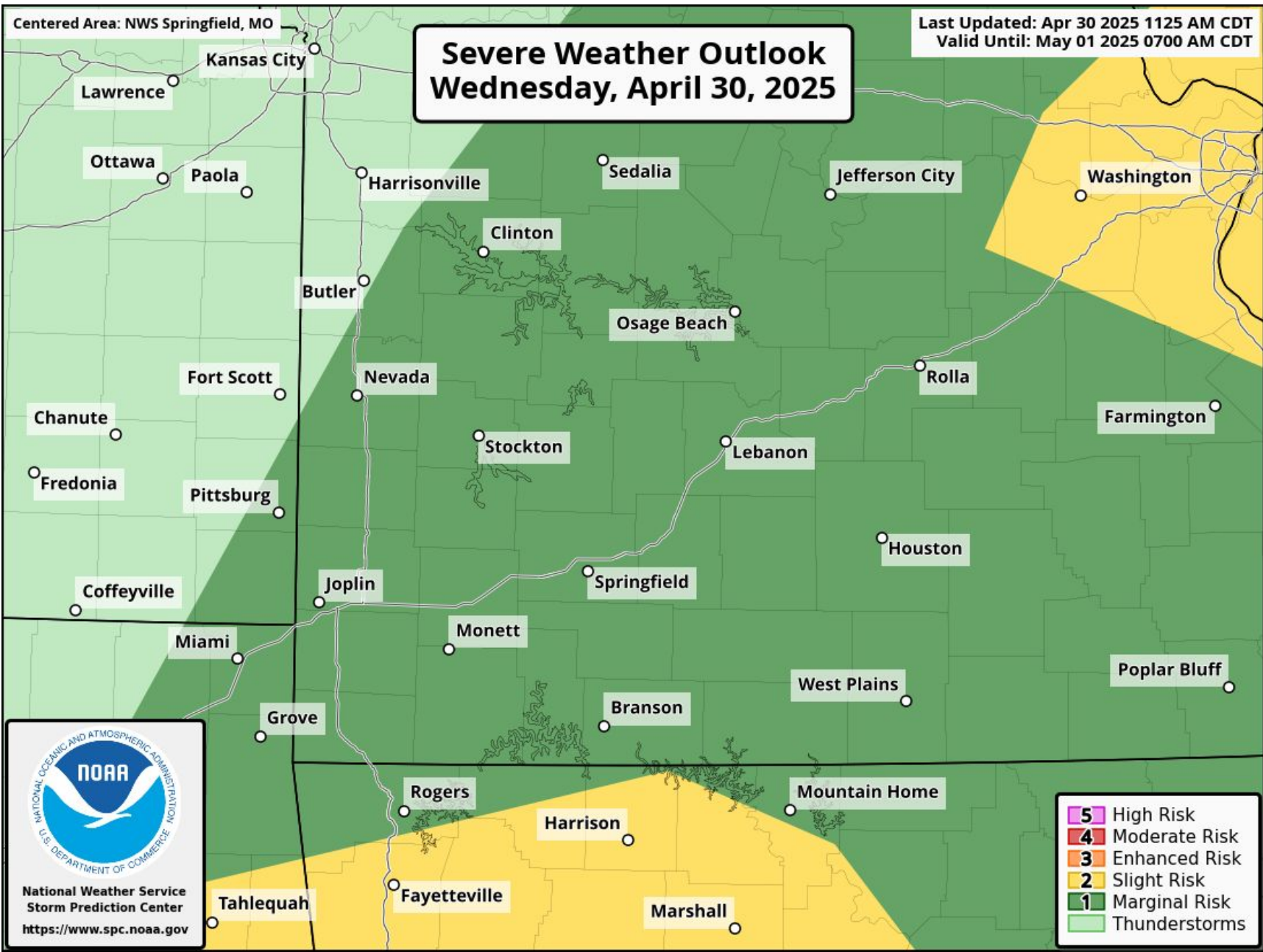
 **Hail**



 **Wind**



 **Flooding**



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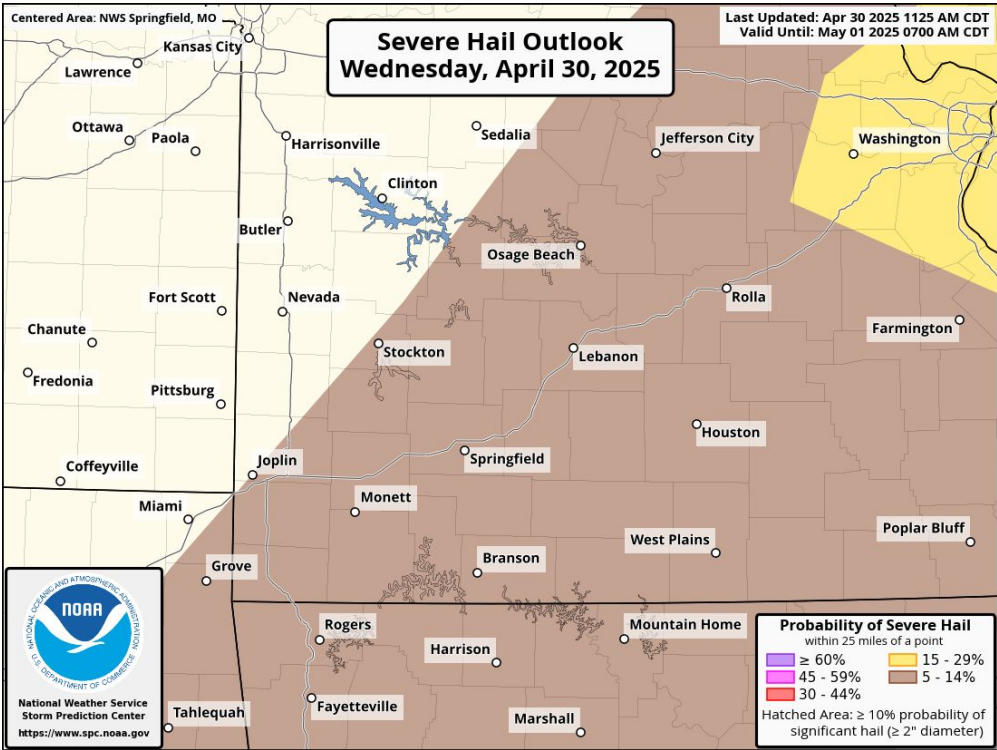
Hazard Probabilities

April 30, 2025
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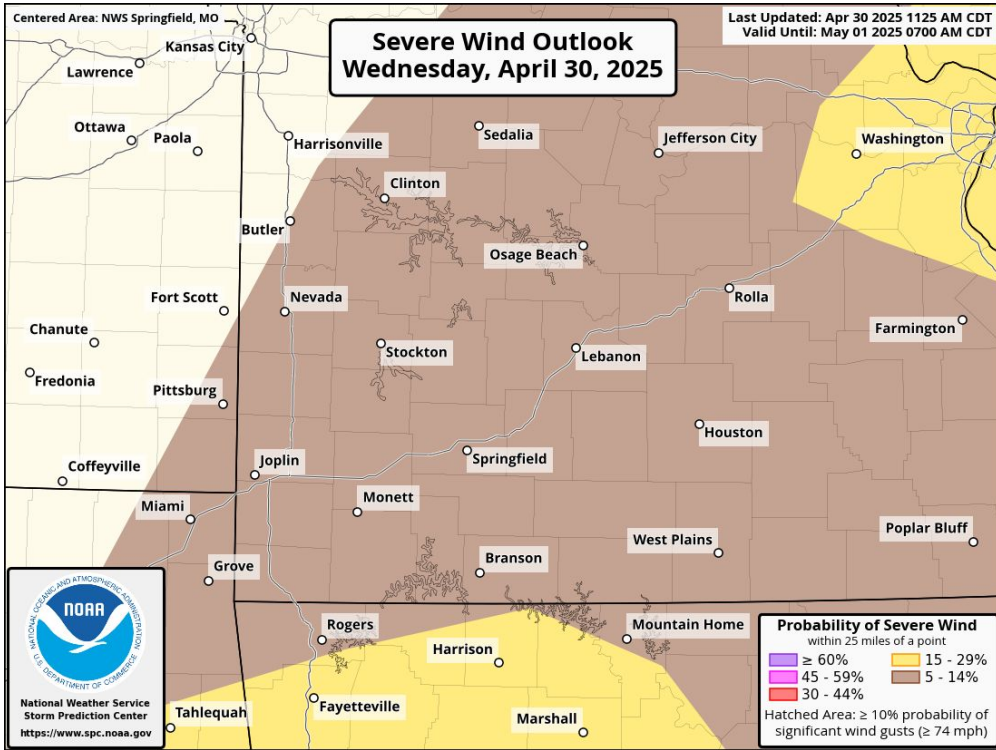
Through This Evening



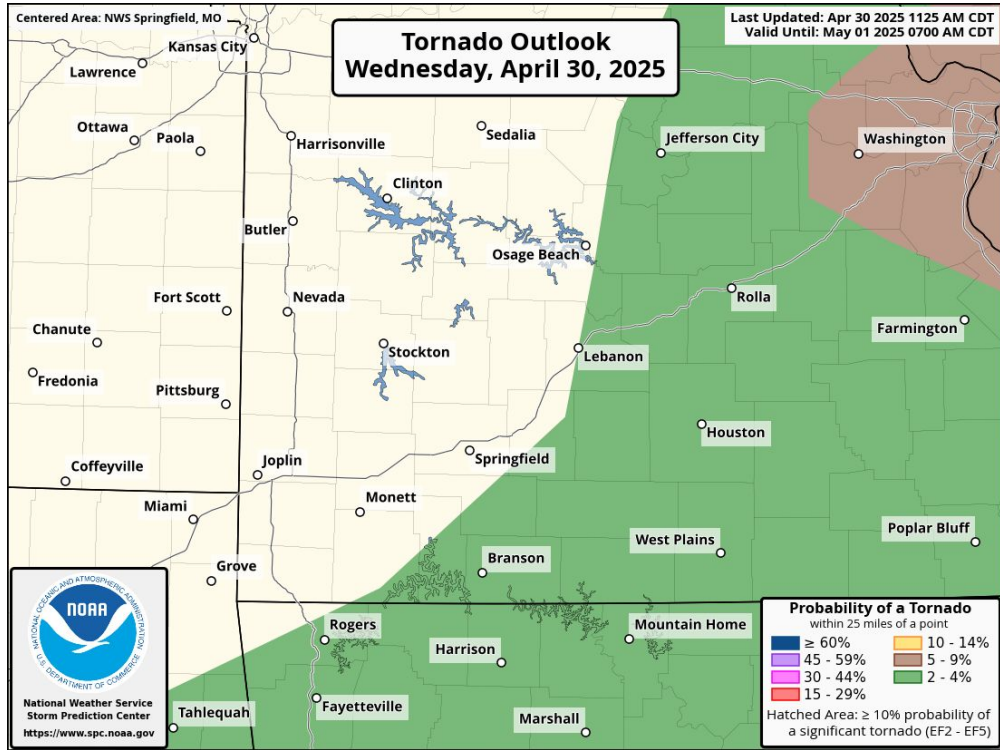
Hail Probability



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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Severe Weather Outlook Thursday

April 30, 2025
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Thursday Afternoon

Overview

- A few thunderstorms could be strong to severe over southeastern Missouri Thursday afternoon.
- Possible hazards include large hail and damaging winds.

Severe Threats

 **Tornado**



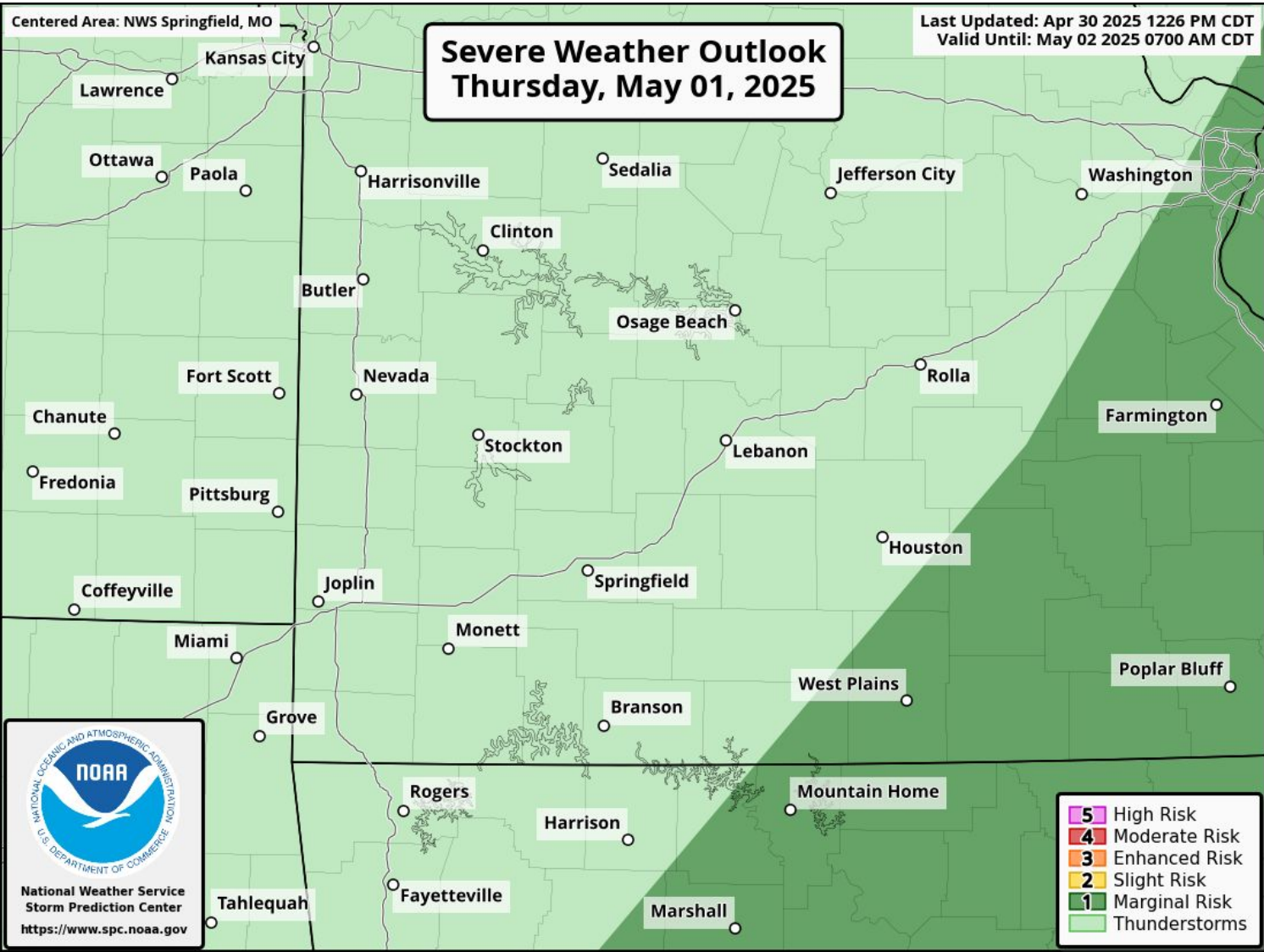
 **Hail**



 **Wind**



 **Flooding**





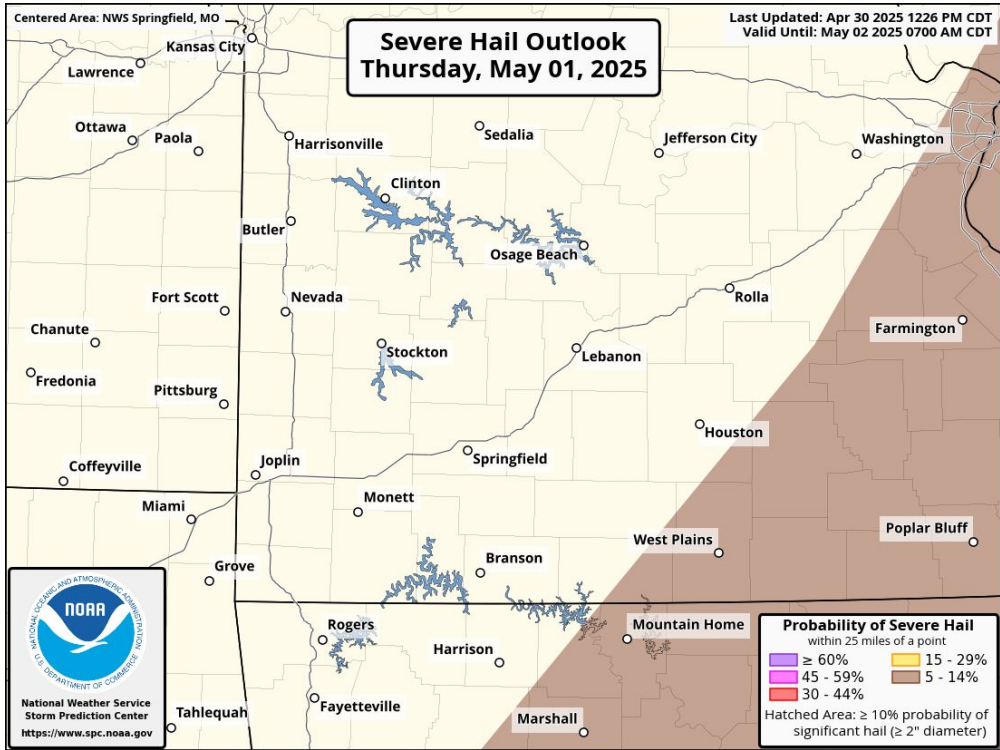
Hazard Probabilities Thursday

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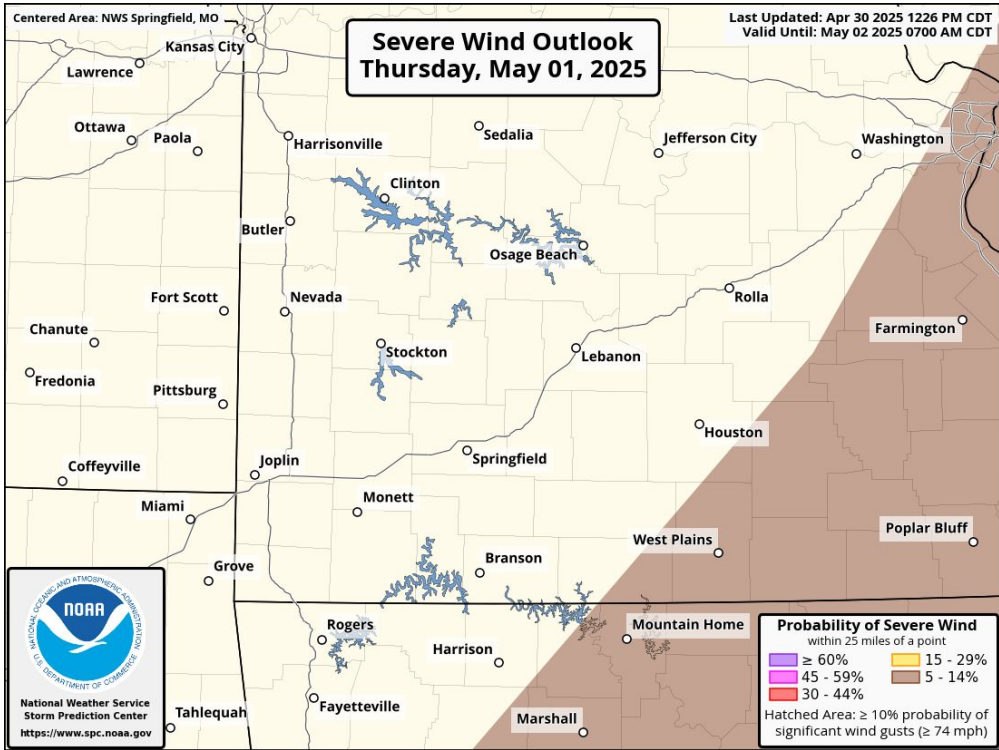
Thursday Afternoon



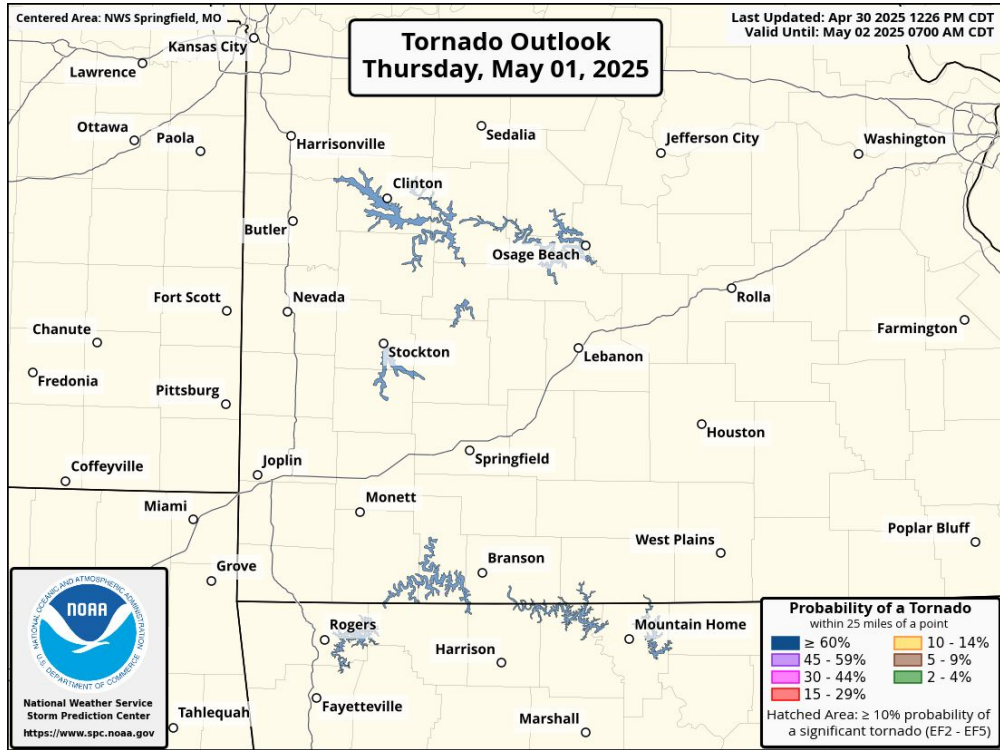
Hail Probability



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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Flood Watch

Through Thursday

April 30, 2025
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What

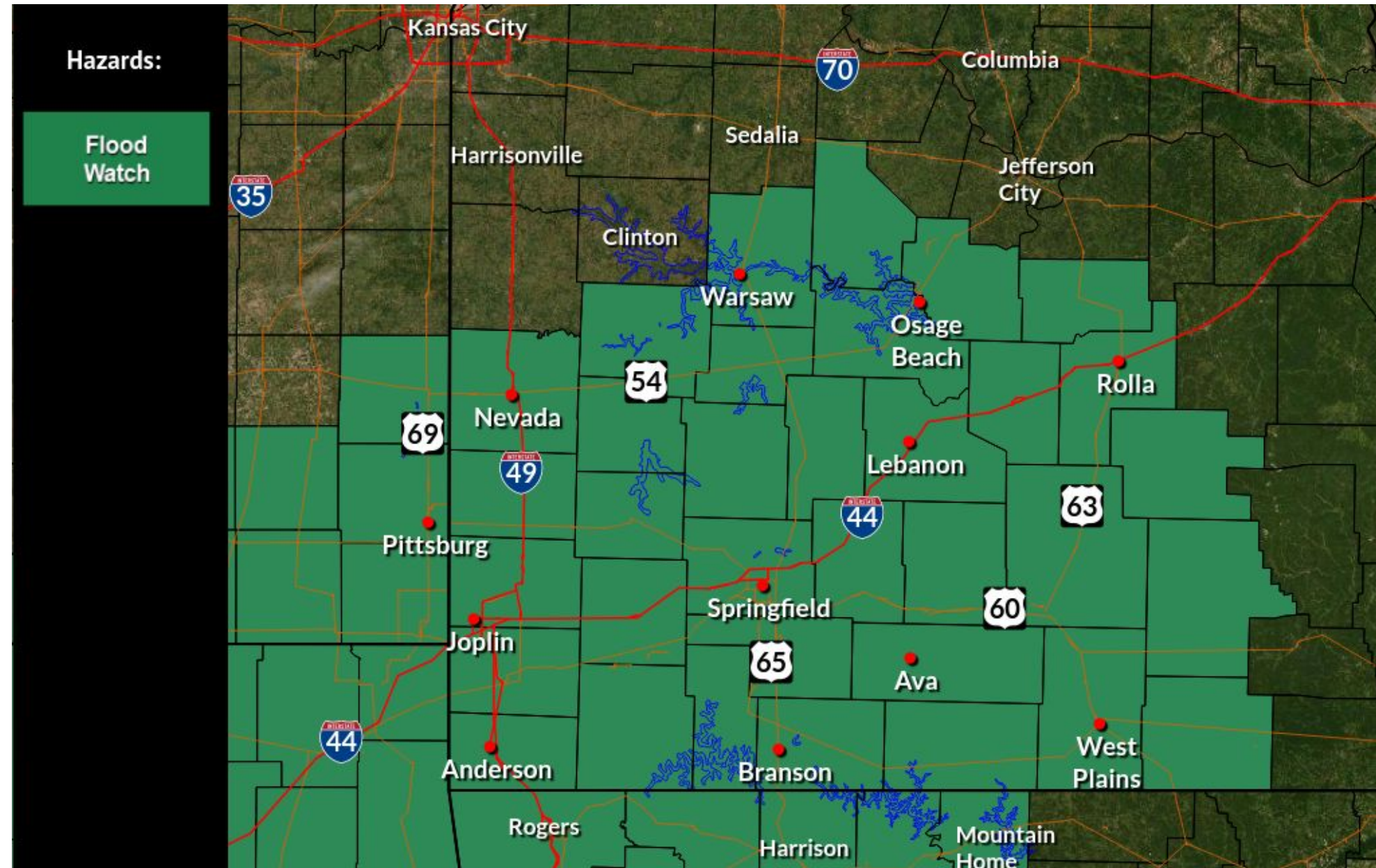
- Additional rainfall from thunderstorms through Thursday. Flooding is already occurring in some locations with additional flooding likely.

Where

- Watch covers the entire area, with the highest confidence across southeast KS into southwest southwest.

When

- Flood Watch is in effect through 7am Thursday.





Flood Watch

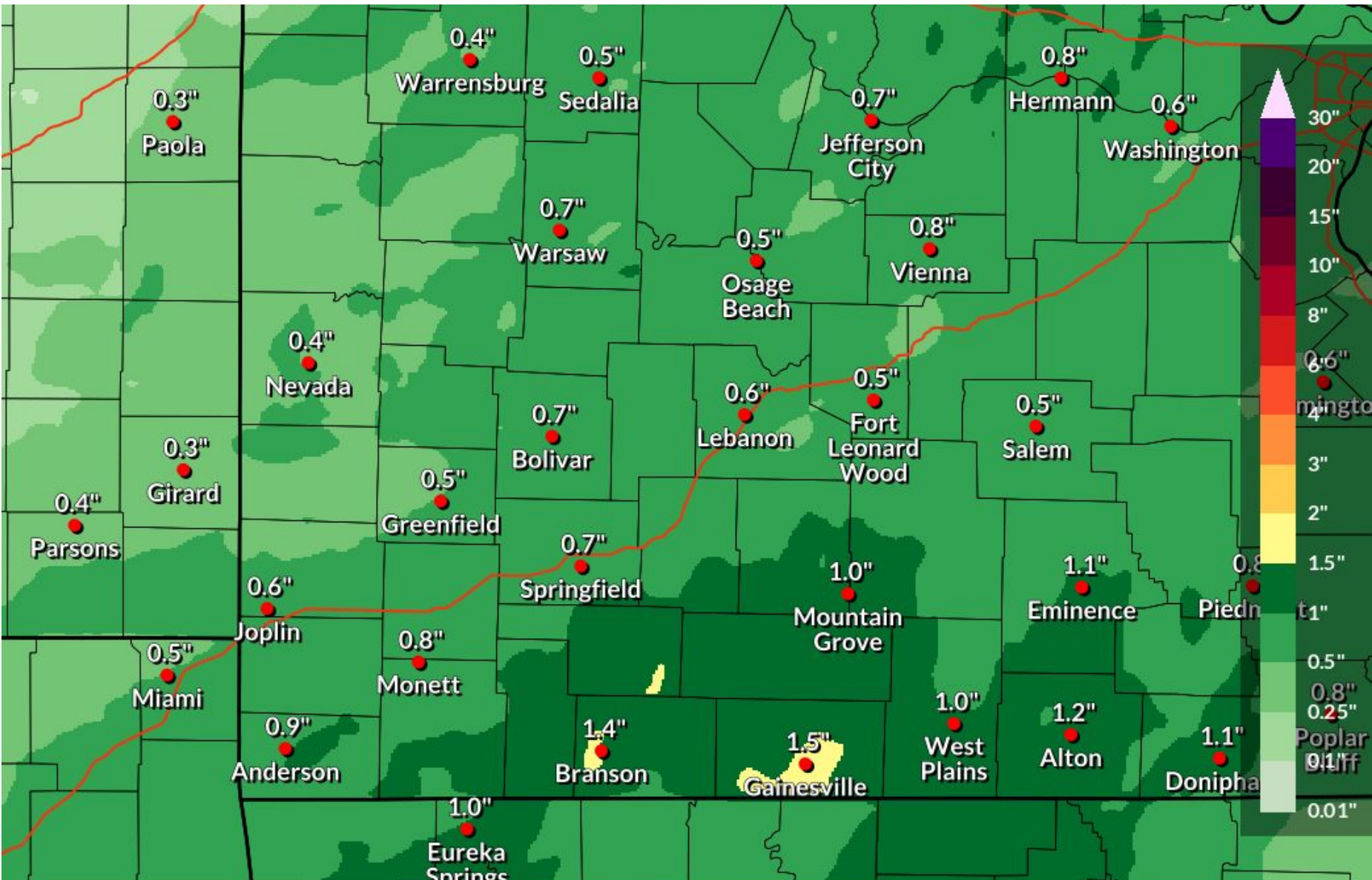
Through Thursday

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Key Points

- An additional 1-2 inches of rainfall is likely south of Interstate 44 through Thursday.
- This is on top of widespread rainfall that already fell across the area this week.

Additional Forecast Rainfall Through Thursday



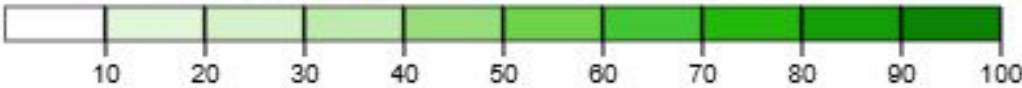


Timing of Thunderstorm Chances

April 30, 2025
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Through Thursday

	Wed			Thu								Fri
	3pm	6pm	9pm	12am	3am	6am	9am	12pm	3pm	6pm	9pm	12am
Pittsburg, KS	75	80	60	40	40	35	35	35	35	35	25	25
Joplin	80	80	65	40	35	30	30	30	30	30	25	25
Nevada	70	80	60	50	55	45	45	45	40	40	25	25
Monett	85	85	70	45	35	30	30	30	30	30	25	25
Warsaw	60	80	70	50	50	50	50	50	40	40	15	15
Springfield	75	90	75	50	40	40	40	40	35	35	25	25
Branson	70	85	75	50	35	30	30	30	30	30	15	15
Lebanon	50	80	75	50	40	45	45	45	40	40	25	25
Osage Beach	50	75	75	50	45	55	55	55	40	40	25	25
Mountain Grove	35	70	80	50	40	45	45	45	35	35	15	15
Fort Leonard Wood	35	70	80	50	45	55	55	55	40	40	20	20
West Plains	25	55	75	60	50	45	40	40	35	35	10	10
Rolla	30	65	80	60	55	65	65	65	50	50	20	20



Probability of Precipitation Forecast (%)

Created: 2 pm CDT Wed 4/30/2025 |

(Sorted geographically from West to East)

Greatest potential for strong to severe
thunderstorms, but confidence is limited



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Location of Severe/Flooding



Timing of Severe/Flooding



Impacts of Severe/Flooding



Confidence Details

- Severe weather potential this afternoon and evening is greatest east of Highway 65 where more surface heating has occurred. However, uncertainty remains on how storms will interact with this environment.

Alternate Scenarios

- A narrower band of localized higher rainfall amounts may occur, but confidence is low on where those exact locations would be at this time.



For Additional Information

- [NWS Springfield Webpage](#)
- [IDSS Point Forecasts](#)
- [Graphical Hazardous Weather Outlook](#)
- [SPC Convective Outlooks](#)
- [Probabilistic QPF Experiment Webpage](#)
- [WPC Excessive Rainfall Outlooks](#)
- [WPC Precipitation Outlooks](#)
- [AHPS Lakes and Rivers](#)
- [Submit Storm Reports](#)

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Thunderstorms can escalate quickly.

Clear skies can quickly turn dark and ominous, whether due to pop-up thunderstorms or squall lines. Be prepared!



Set up a way to get weather warnings on your phone



When alerted to a storm, get inside a sturdy building immediately



Stay away from windows once indoors



If a building isn't nearby, get inside a vehicle



weather.gov

