



Active Stretch of Weather

May 16, 2025
4:53 AM

Today into Early Next Week

Key Messages

- An active stretch of weather will begin today, lasting into early next week.
- There is a rare Moderate (level 4 of 5) risk for severe storms today. Hail up to the size of softballs is the main hazard. Wind gusts up to 80 mph and a few tornadoes are also possible.

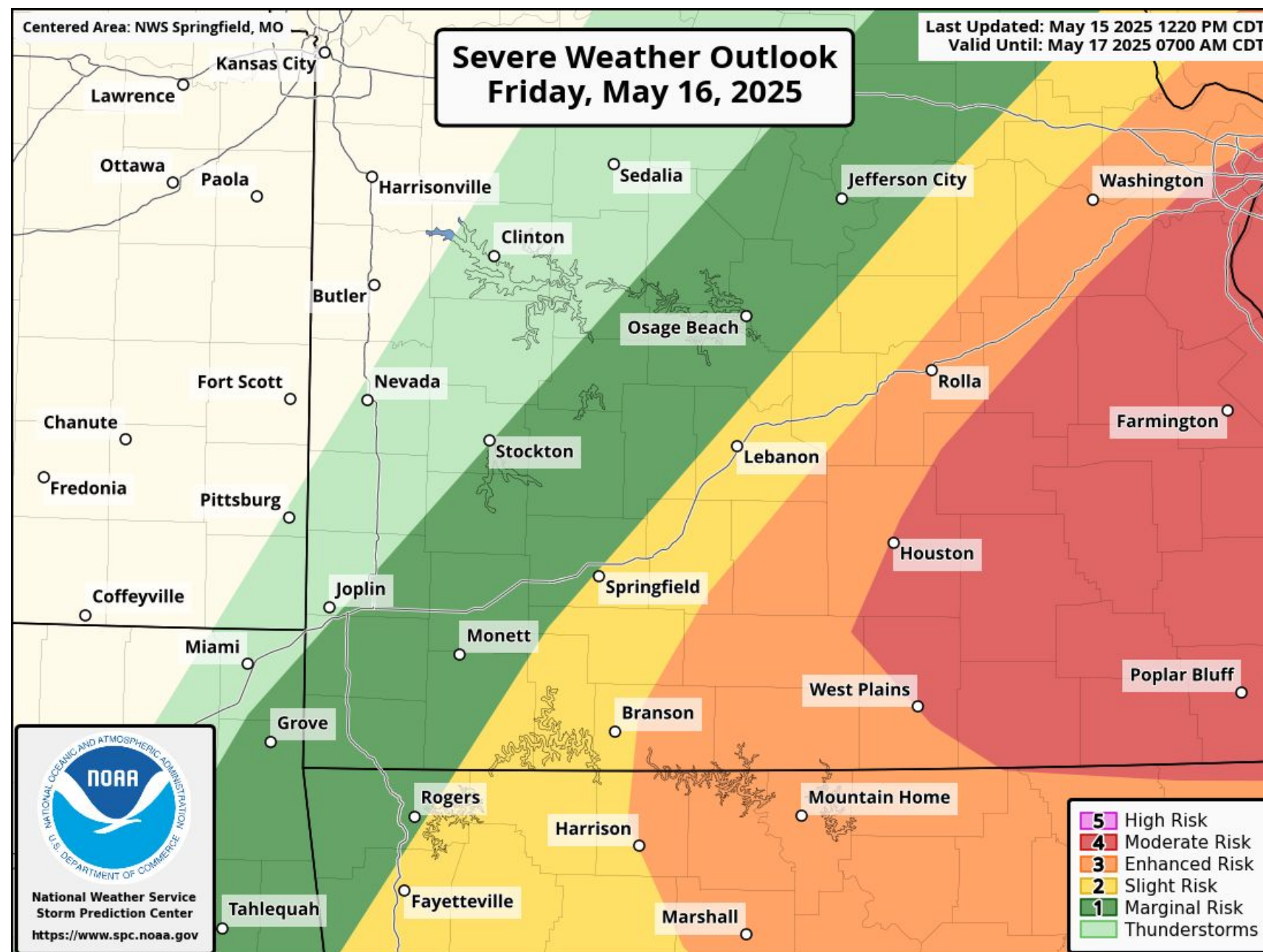
NEW

Important Updates

- Severe risks have been introduced for every day through Tuesday.
- Added impact statements.

Next Scheduled Briefing

- Friday afternoon by 6 PM



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National Weather Service
Springfield, MO



Severe Outlook This Morning

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Additional severe weather in the afternoon

Details



30-50% chance of scattered thunderstorm development this morning as a warm front moves northward across the area. These storms would quickly move west to east between **10 AM and 3 PM**. Additional storms then expected over the eastern Ozarks later in the day.

Severe Threats



Isolated Tornado



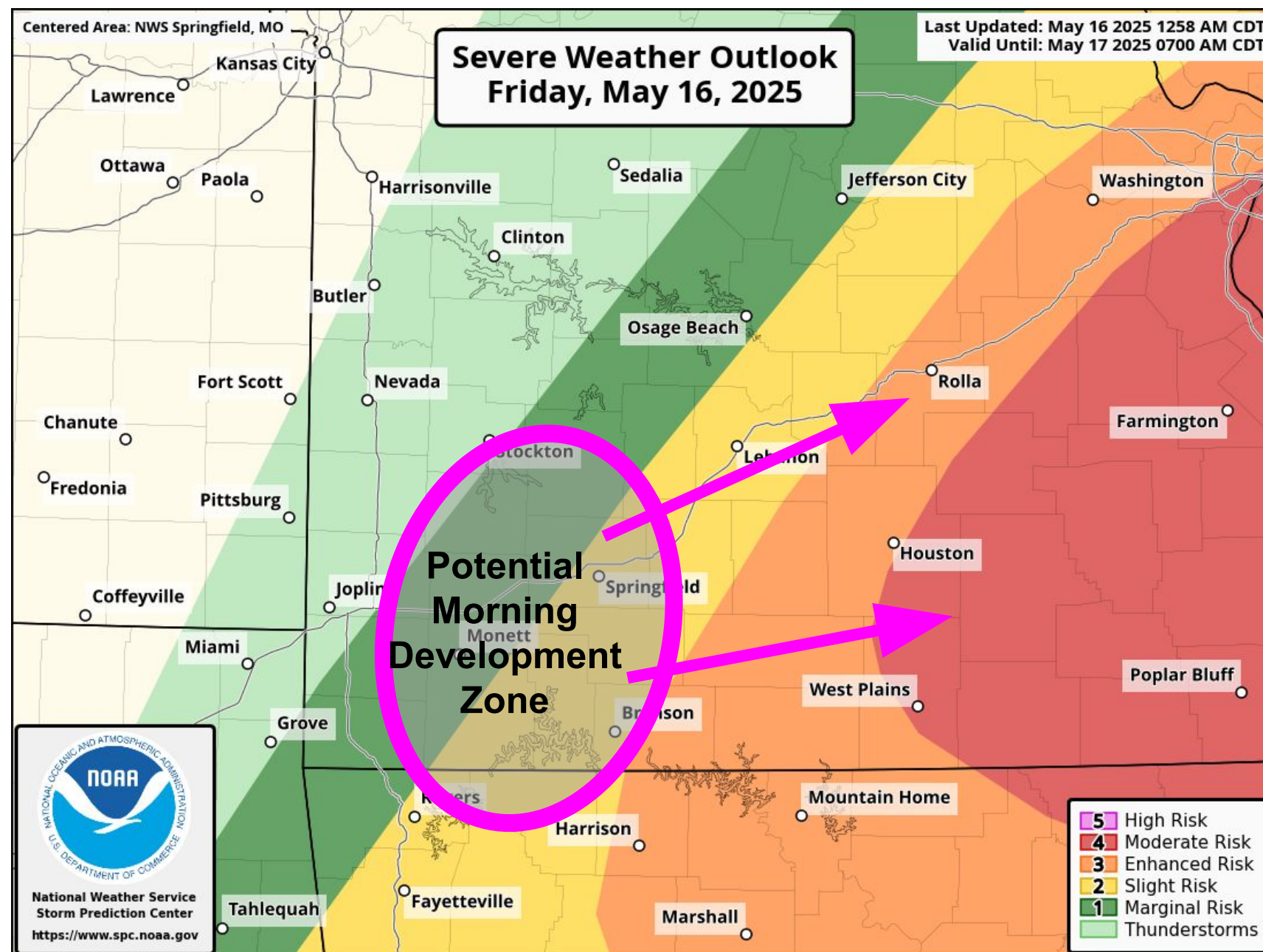
Large Hail

Golf ball to baseball in the morning



Damaging Wind

Up to 70 mph in the morning



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Severe Outlook This Afternoon

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Morning storms to diminish followed by redevelopment in the afternoon

Details



Morning storms will diminish in coverage with eastward extent, followed by redeveloping storms in the **afternoon between 3-6 PM.**

A rare Moderate Risk (level 4 of 5) will largely impact areas south of a Branson to Salem line...with greater coverage east of Highway 63.

Severe Threats



A Couple Tornadoes



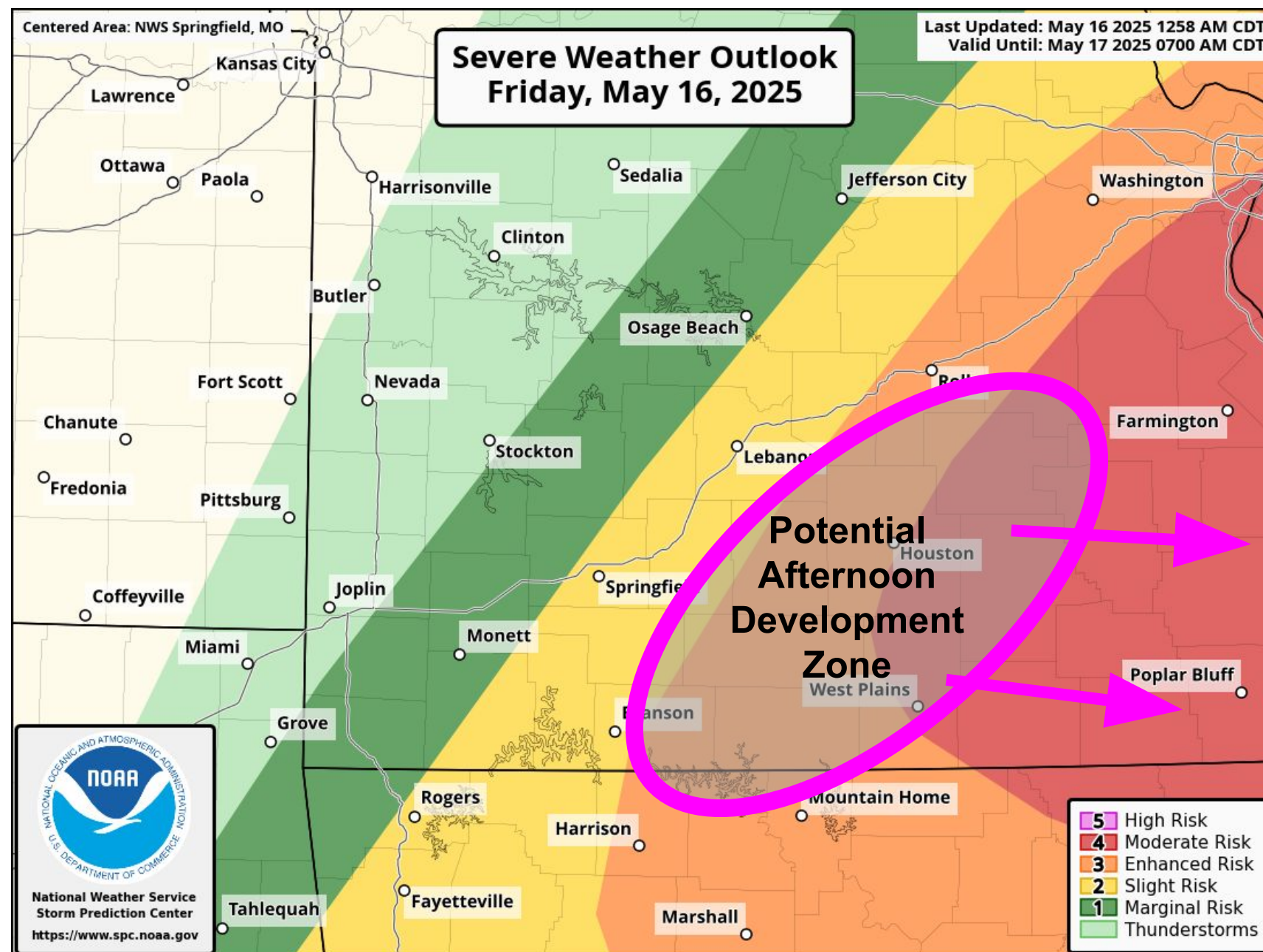
Large Hail

Up to the size of softballs



Damaging Wind

Up to 80 mph



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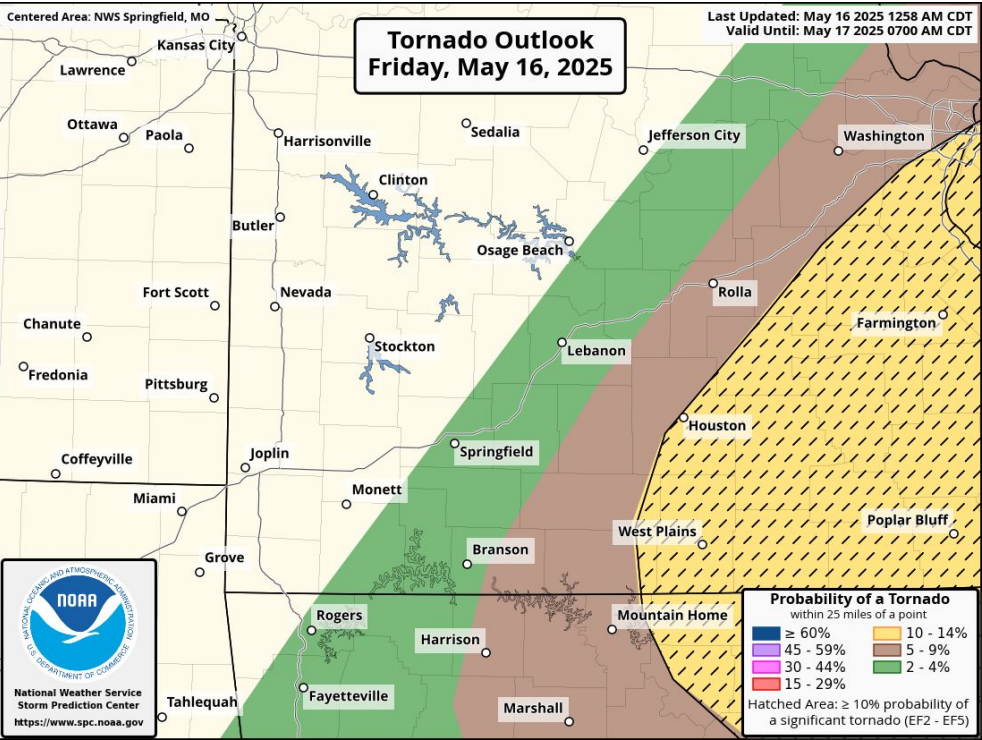
Tornado, Wind, and Hail

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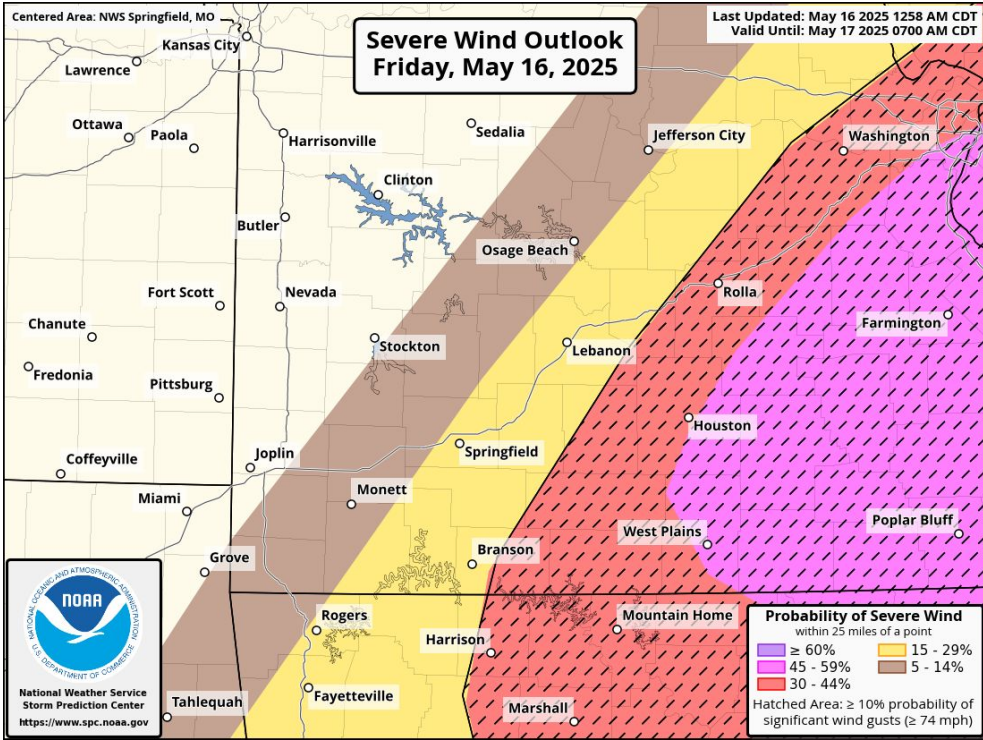
Significant wind and hail are the primary threats



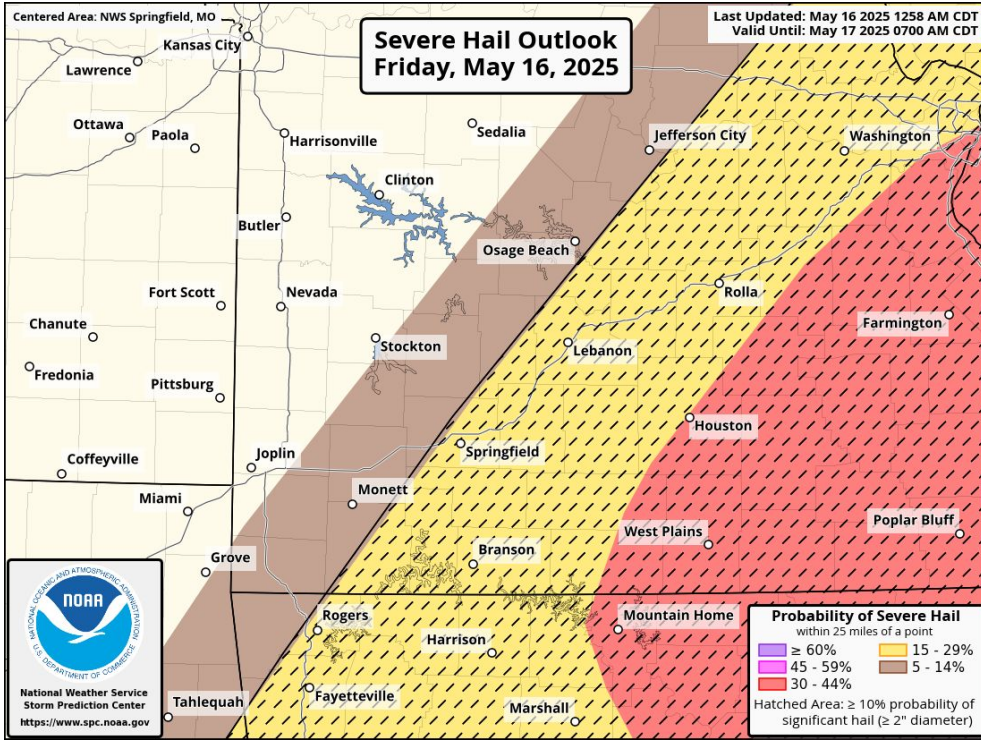
Tornado Probability



Wind Probability



Hail Probability



Very Low	Low	Moderate	High
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< 60 mph	60-70 mph	70-80 mph	>80 mph
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Pennies	Quarters	Golf Balls	Baseballs
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Friday Severe Weather Hazards

May 16, 2025
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Hazards: Very large hail up to softball size, damaging winds up to 80 mph, a couple tornadoes.



Areas Impacted: Initial morning development could impact areas just west of Highway 65 and eastward. Afternoon development along and SE of a Branson to Salem line, especially east of Highway 63.



Timing & Duration: Morning storms from 10 AM to 3 PM. Then afternoon redevelopment from 3 PM to 6 PM.



Impacts: Baseball to softball sized hail could significantly damage cars, roofs or siding, and people/animals, especially if driven by 60-80 mph wind gusts. Wind gusts up to 80 mph could down trees and power lines leading to potential power outages and structure damage. Any tornado could damage trees and buildings and make flying debris life threatening.



Certainty & Considerations: There is still some uncertainty in the extent of coverage for both development periods. **There could be just one isolated storm or two, or scattered to numerous storms in a line.** Either way, any storm that develops will be capable of significant severe hazards.

Historical Perspective: Given the forecasted environment research points to high confidence in any mature storm producing greater than 2-3.5 inch hail.





Confidence Levels

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Lowest confidence in extent of coverage. Any storm is capable of severe hazards.

Confidence in Coverage



Confidence in Hazards



Confidence in Timing



Confidence Details

- The main uncertainty is the extent of storm development coverage. Some models keep our entire area dry, while others sweep storms from I-49 eastward. **Given cold frontal forcing and a forecasted uncapped environment, forecast intuition points to at least isolated to scattered coverage of storms.**
- High confidence that any storm that does develop and mature will be capable of producing significant hazards.

Alternate Scenarios

- Only one or two strong storms could develop in each outlined timeframe (morning and afternoon).
- There is a scenario where no storms fire until the front moves east of our area, but this is a very low confidence scenario.
- Many storms could develop this morning and afternoon as a broken line of storms along the cold front.





Severe Weather Outlook Saturday

May 16, 2025
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Hail and wind the main hazards

What

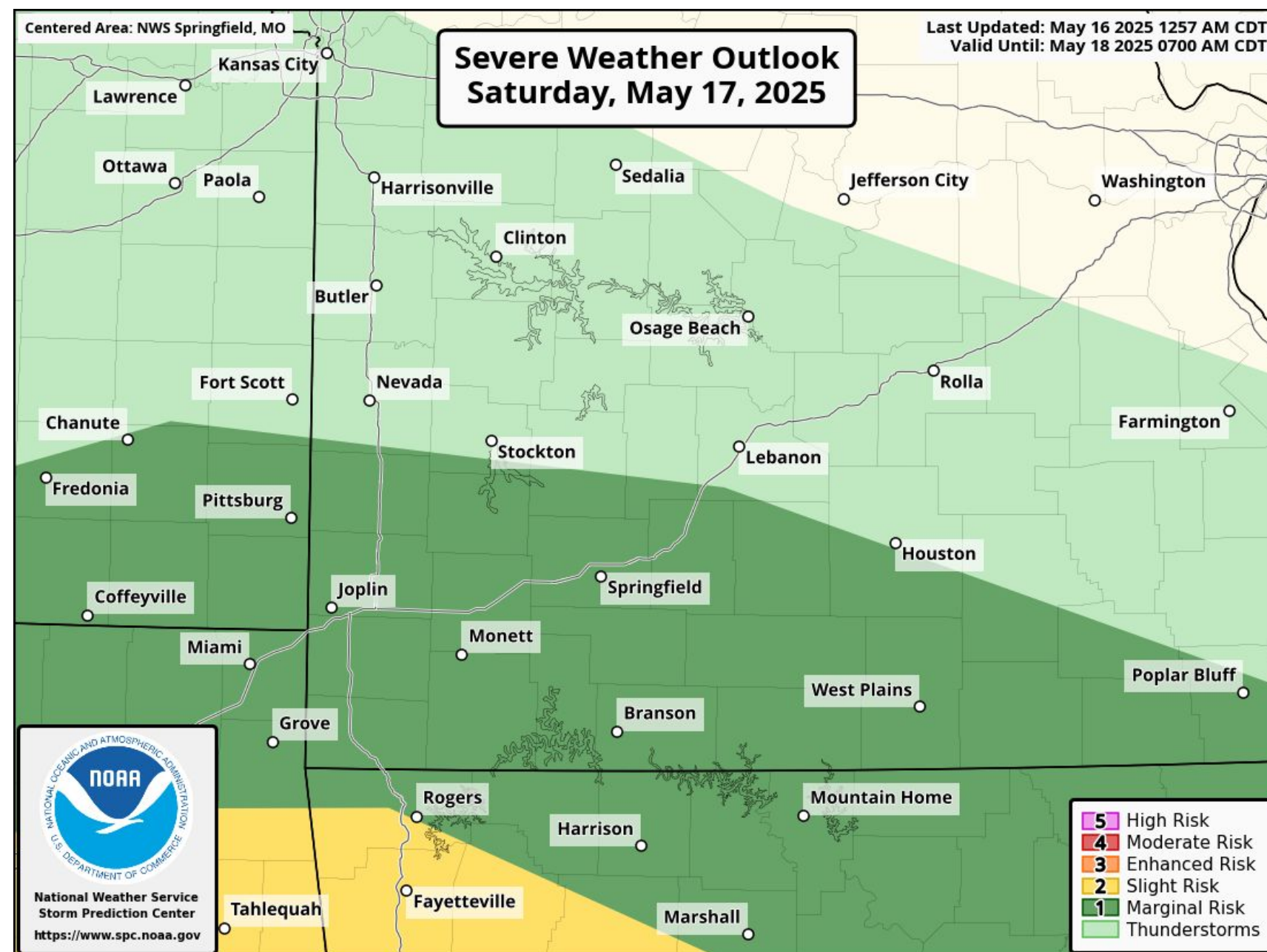
- A lifting warm front will bring a 30-60% chance of elevated showers and thunderstorms. Some may become strong to severe with hail up to quarter size and wind gusts up to 60 mph being the main hazards.

Where

- Southern Missouri

When

- Saturday night into Sunday morning



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Severe Weather Outlook Sunday

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Still some uncertainty in exact timing and subsequent storm mode/hazards

What

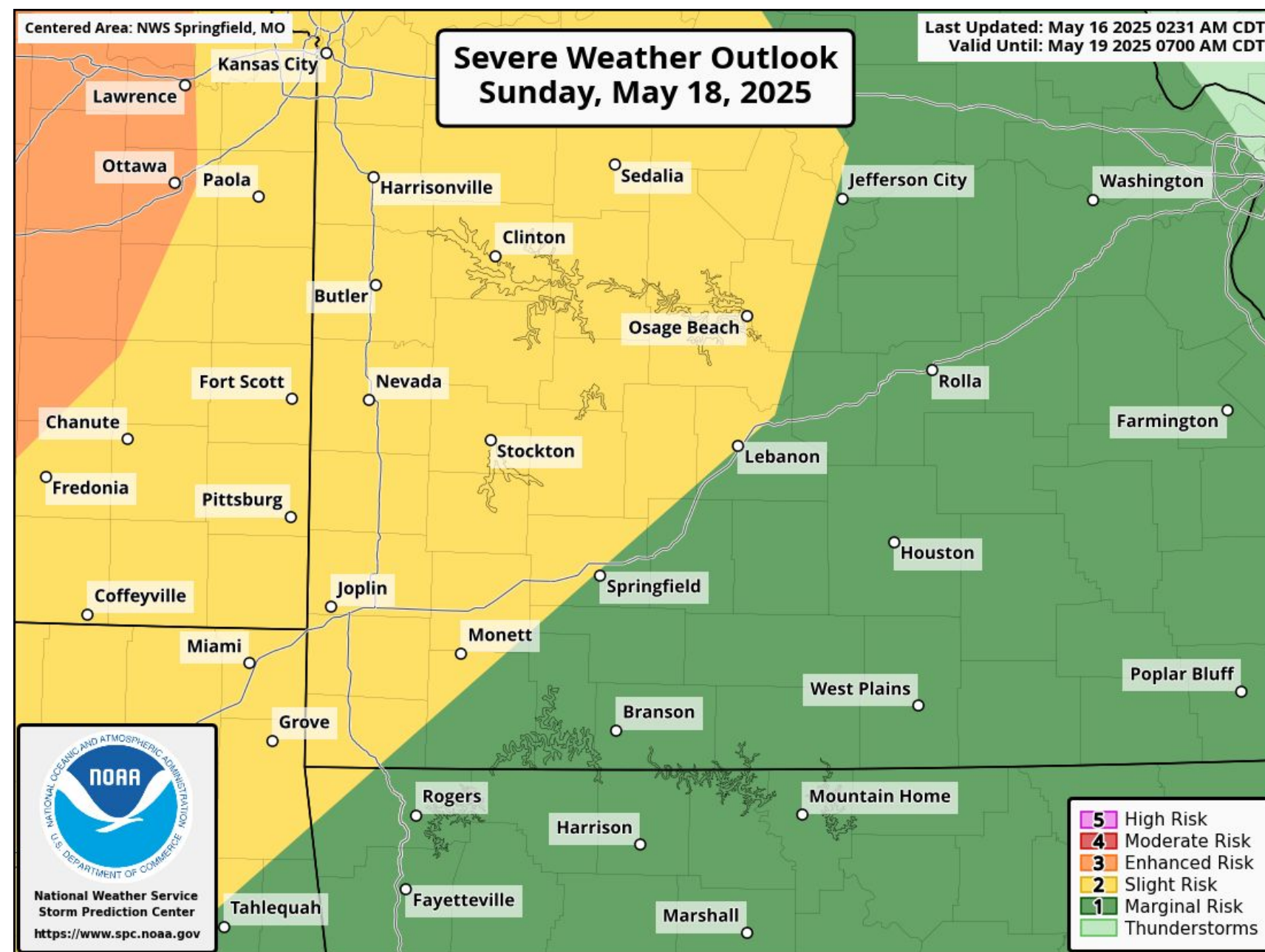
- Strong to severe thunderstorms are possible again Sunday evening and night. Uncertainty in if this is a remnant thunderstorm complex, or development along the warm front. Therefore, hazards still uncertain.
- Heavy rainfall and flooding could also be a concern if a slow thunderstorm complex develops and moves through.

Where

- Mainly along and west of I-44.

When

- Sunday evening into the overnight hours.

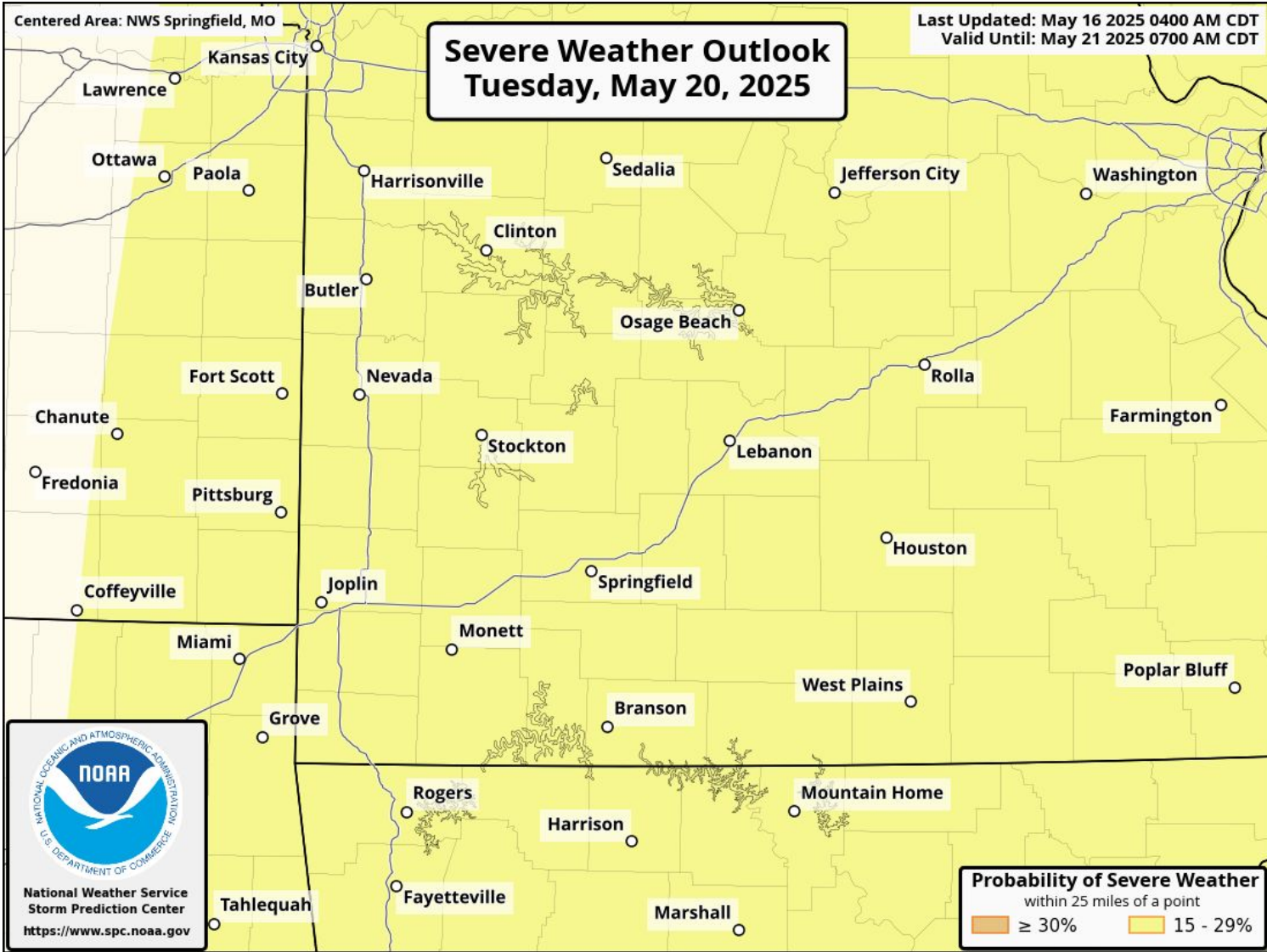
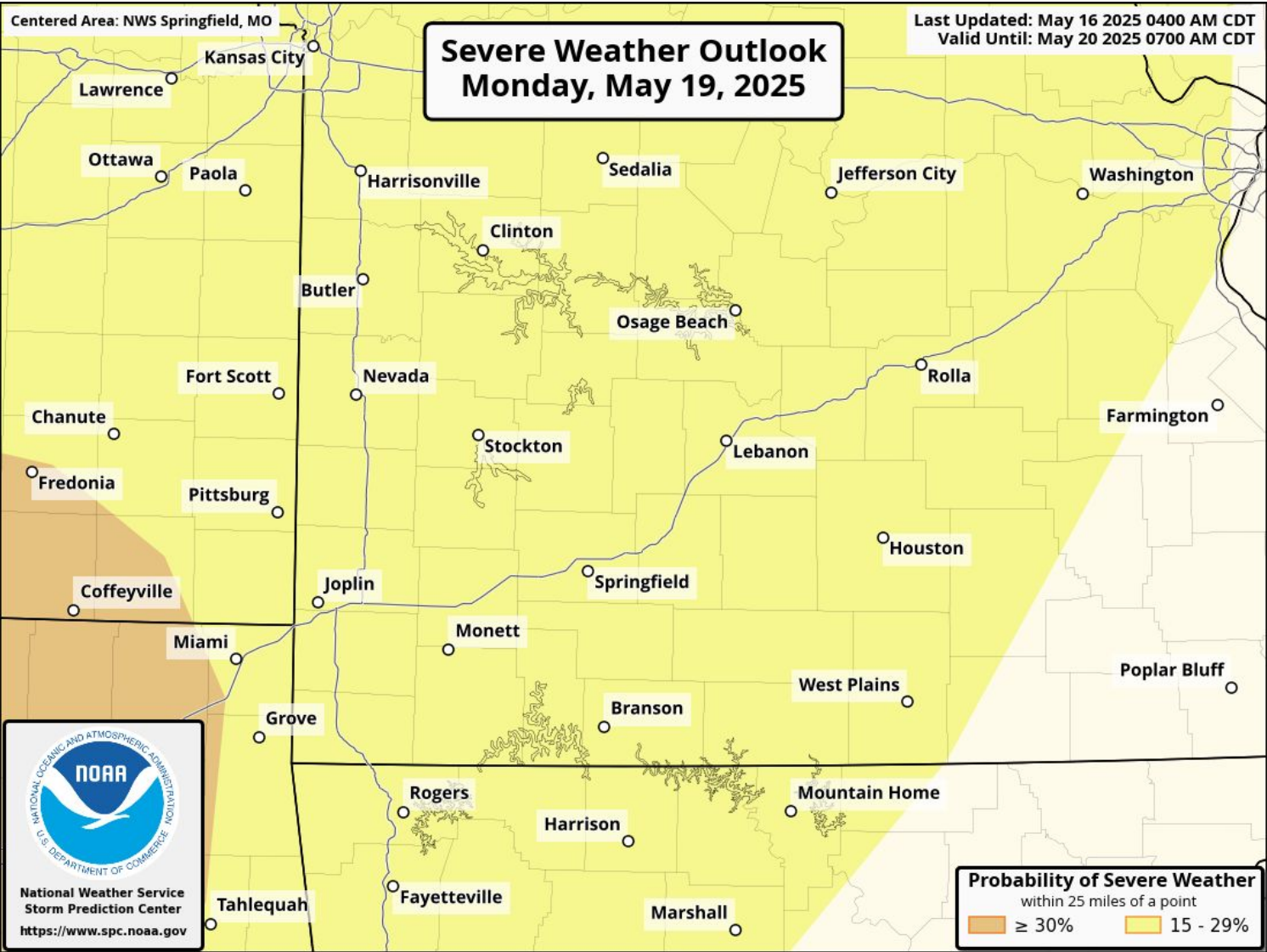




SPC Severe Outlooks Monday and Tuesday

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Heavy rainfall and flooding may also become a concern, especially Monday





Precipitation Chances Into Saturday Night

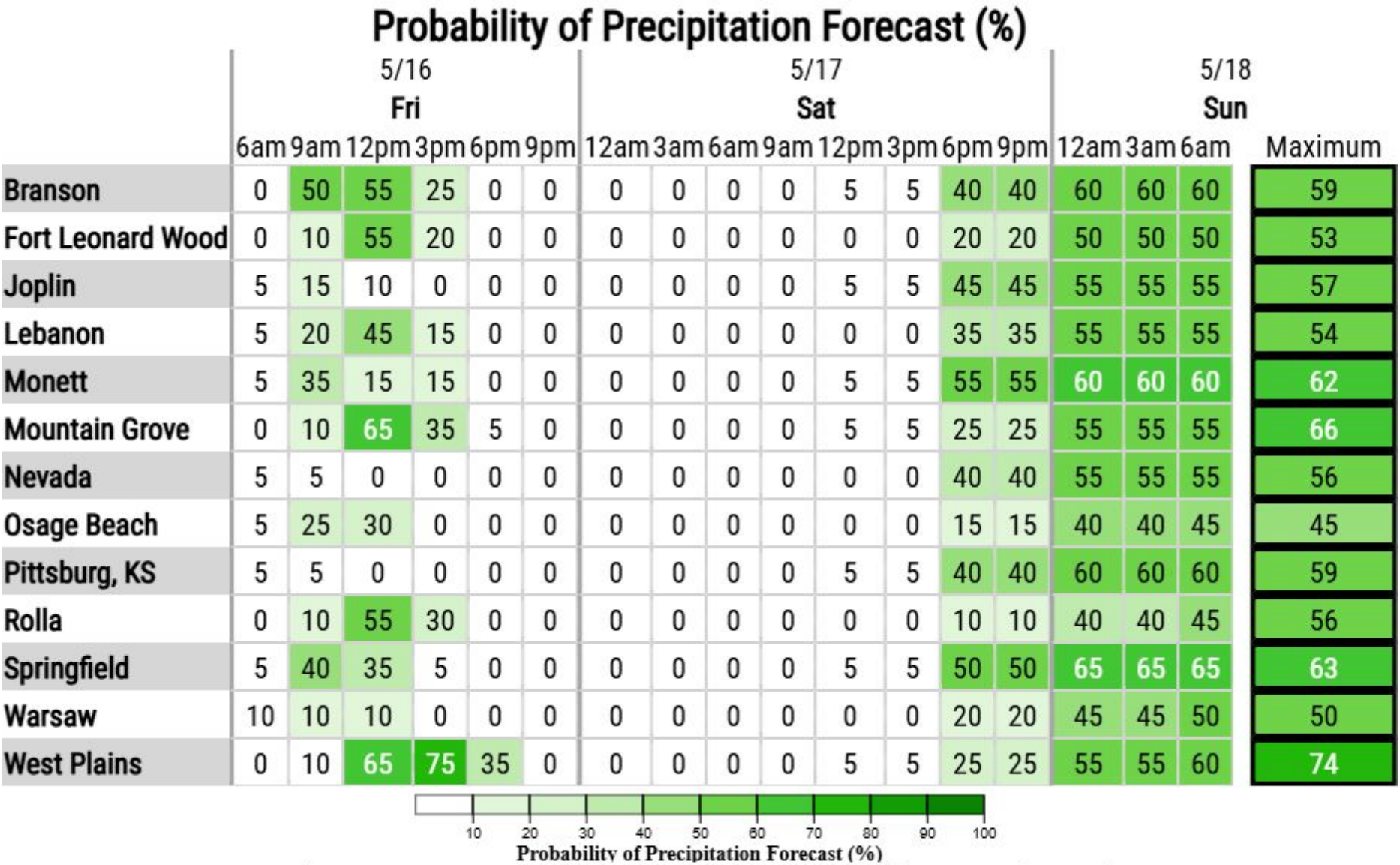
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Additional Storms Possible Sunday into Next Week

Details

Storm chances will increase this morning and afternoon, then diminish after 6-7 PM.

Additional rounds of thunderstorms will occur at times across the area Saturday night through Tuesday. Some of these storms may be strong to severe. Additionally, there is the potential for localized heavy rainfall and flooding with this activity.



Created: 4 am CDT Fri 5/16/2025 | Values are maximums over the period beginning at the time shown.





For Additional Information

- [NWS Springfield Webpage](#)
- [IDSS Point Forecasts](#)
- [Graphical Hazardous Weather Outlook](#)
- [SPC Convective Outlooks](#)
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