



Severe Weather Tonight/Wednesday

June 17, 2025
4:10 AM

Key Messages

- First round of severe risk comes late Tuesday night with an Enhanced (level 3 of 5) risk of severe weather in eastern Kansas and part of western Missouri.
- Second round of severe risk Wednesday afternoon/evening, with a widespread Slight (level 2 of 5) risk across the Ozarks and enhanced risk over the eastern Ozarks.
- Localized flooding potential where heavy rainfall occurs.
- Heating up this weekend, with very muggy conditions causing apparent temperatures to approach Heat Advisory conditions.

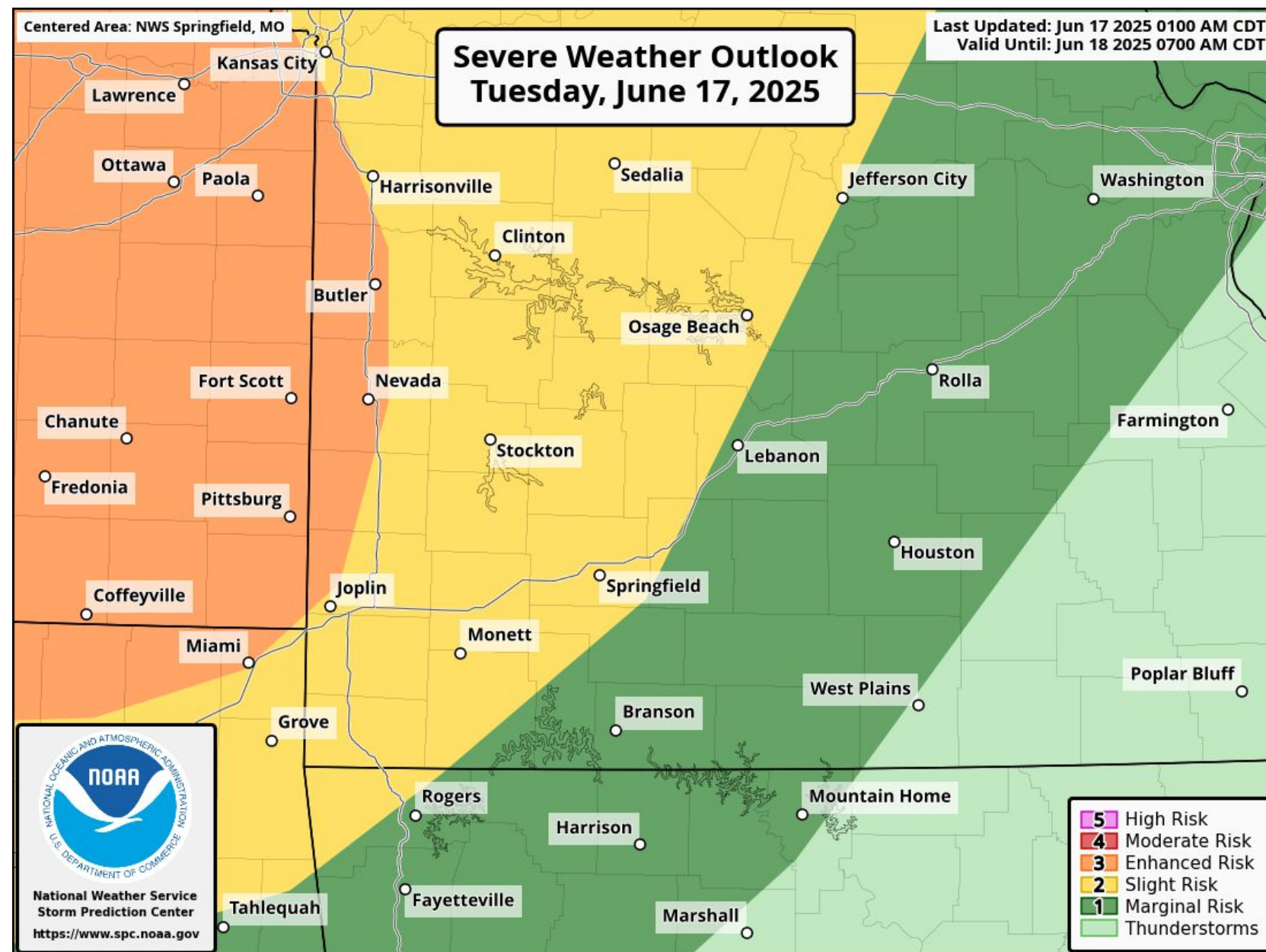
NEW

Important Updates

- Upgraded day 2 outlook to enhanced (3 of 5)

Next Scheduled Briefing

- By 7 PM Tuesday



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

National Weather Service
Springfield, MO



Severe Outlook Late Tonight

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Highest severe risk furthest west

Timing



Late tonight into early Wednesday morning

Threats



Damaging Wind

Up to 70 mph



Large Hail

Size of quarter



Few Tornadoes

Very conditional threat for short, weak spin-ups



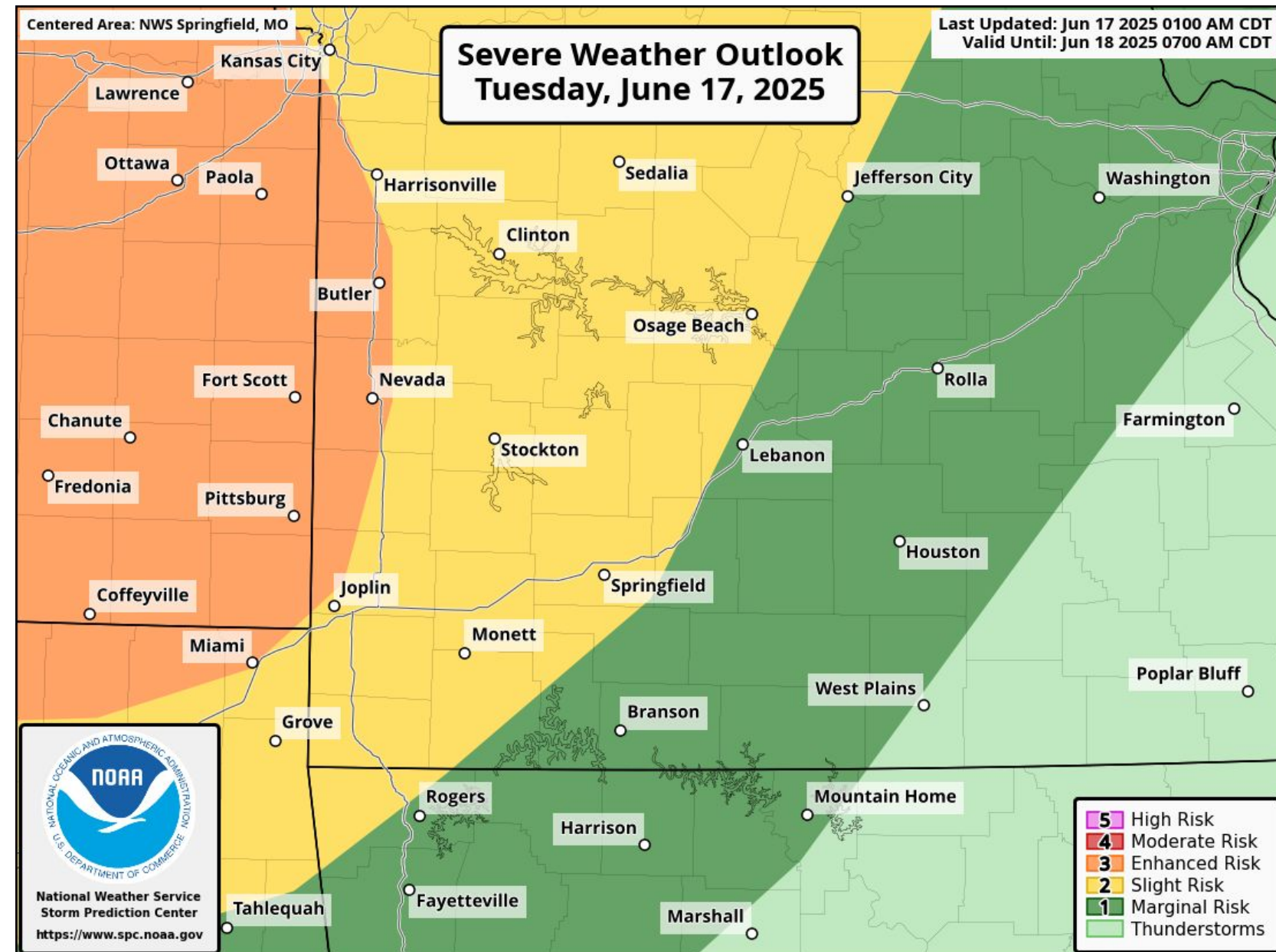
Frequent Lightning

Cloud-to-ground strikes



Heavy Rainfall

Downpours could lead to localized flooding



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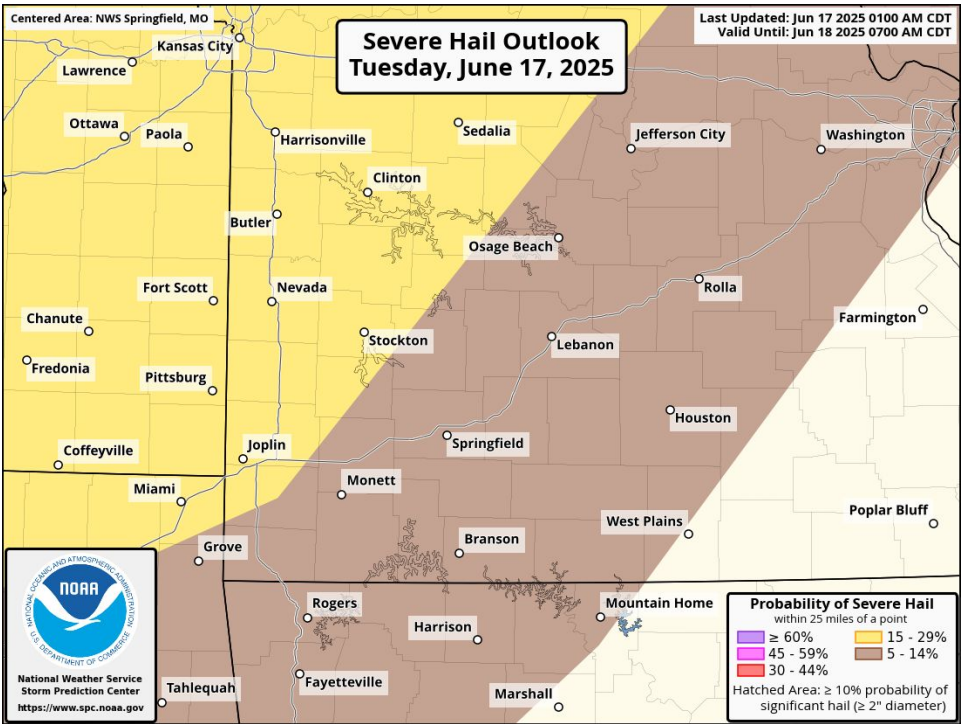
Hazard Probabilities Tonight/Wednesday Morning

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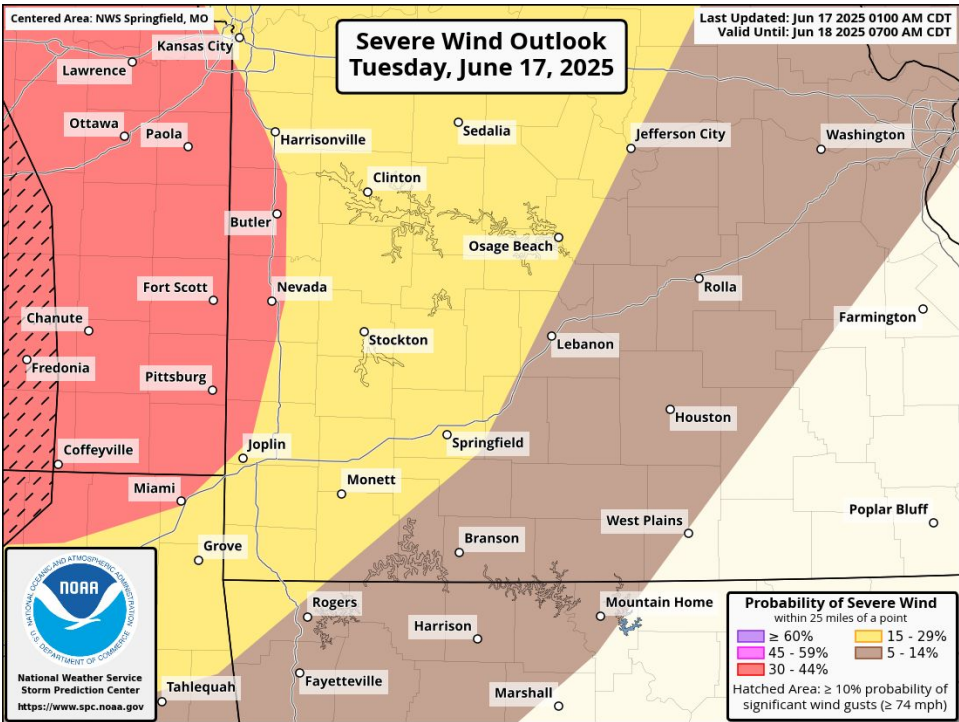
Greatest threat is winds up to 70 mph



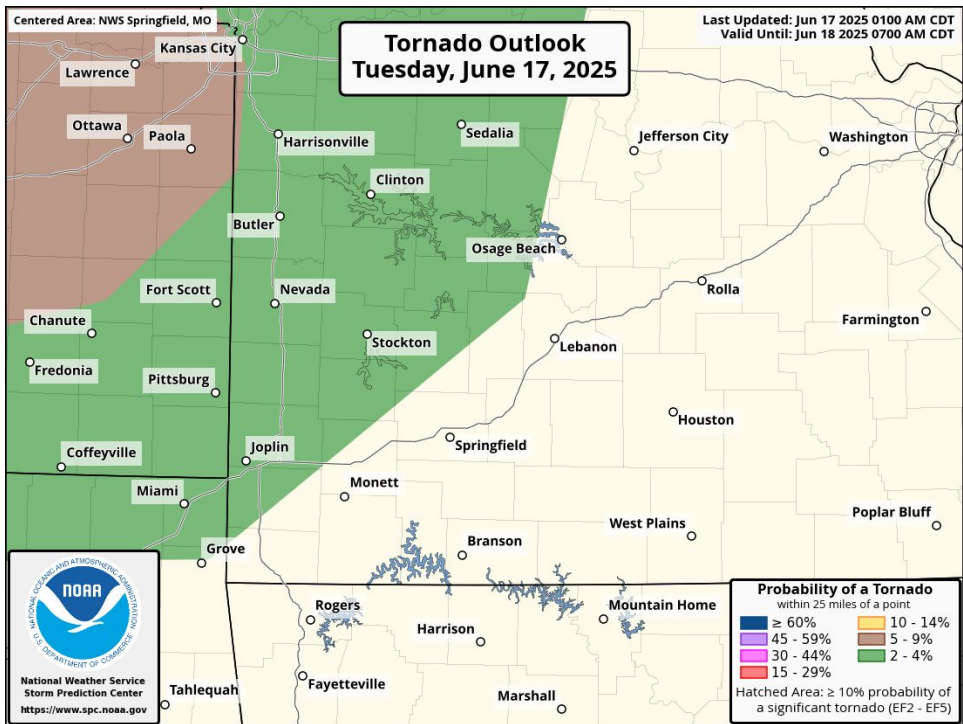
Hail Probability



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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Wednesday Severe Outlook

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Wednesday afternoon into Wednesday evening

What

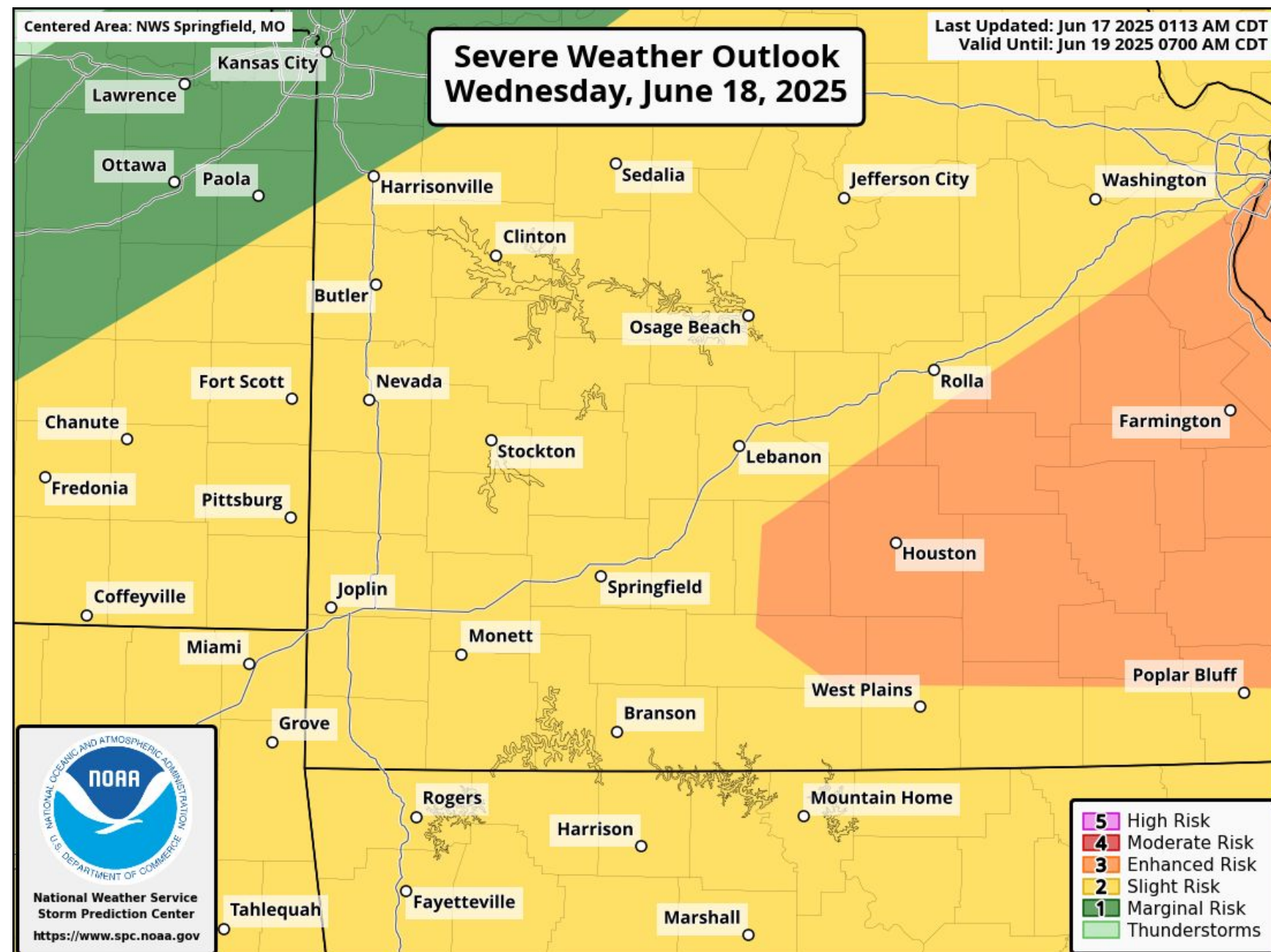
- There is an enhanced (level 3 of 5) Risk for severe weather associated with a cluster of thunderstorms on Wednesday. All modes of severe storms will be possible.

Where

- Area of highest severe risk will likely be over the eastern Ozarks, however all of the area is in at least a slight risk of severe storms.
- More widespread coverage is expected with this line of storms.

When

- Wednesday afternoon into Wednesday evening



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Confidence Levels

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Higher confidence in how first round of storms plays out, with highest uncertainty Wed. afternoon

Location



Timing



Severe Hazard Type



Flooding



Confidence Details

- Main uncertainty Tuesday night/Wednesday morning is in eastward extent, with questions about how far east it'll get.
- Higher confidence in widespread coverage of severe weather on Wednesday afternoon.
- Lower confidence in hazard types and storm modes Wednesday afternoon.

Alternate Scenarios

- A convective vortex within the larger storm complex could form Tuesday, with sub-severe thunderstorms but efficient rainfall rates, which would increase flooding potential.
- A convective vortex within the larger storm complex could also form Wednesday, which would increase rainfall residence time and flooding potential on Wednesday.
- Additional wind shear on Wednesday would increase hail and tornado risk, with initial storm development potentially supercellular Wednesday afternoon/evening.
- Multicells/line segments greatly lower tornado potential.





NWS Springfield Heat Headline Criteria

The difference between advisory, watch, and warning for heat products

Heat Advisory

Use Caution

Hazardous heat will occur for at least 24 hours.

Heat index $\geq 105^{\circ}\text{F}$

and/or

**Heat index $100\text{--}104^{\circ}\text{F}$
for 4+ consecutive
days**

Extreme Heat Watch

Be Prepared

Dangerous heat is possible in the next 24 hours.

Issued 24-48 hours before:

Heat index $\geq 110^{\circ}\text{F}$

and/or

**Heat index $\geq 105^{\circ}\text{F}$ for
4+ days**

Extreme Heat Warning

Take Action!

Dangerous heat is occurring or expected to occur for 48+ hours.

Heat index $\geq 110^{\circ}\text{F}$

and/or

**Heat index $\geq 105^{\circ}\text{F}$
for 4+ consecutive days**

*with consideration of
nighttime temperatures
around 75°F or higher*

*due to accentuated impacts from elevated
nighttime temperatures*

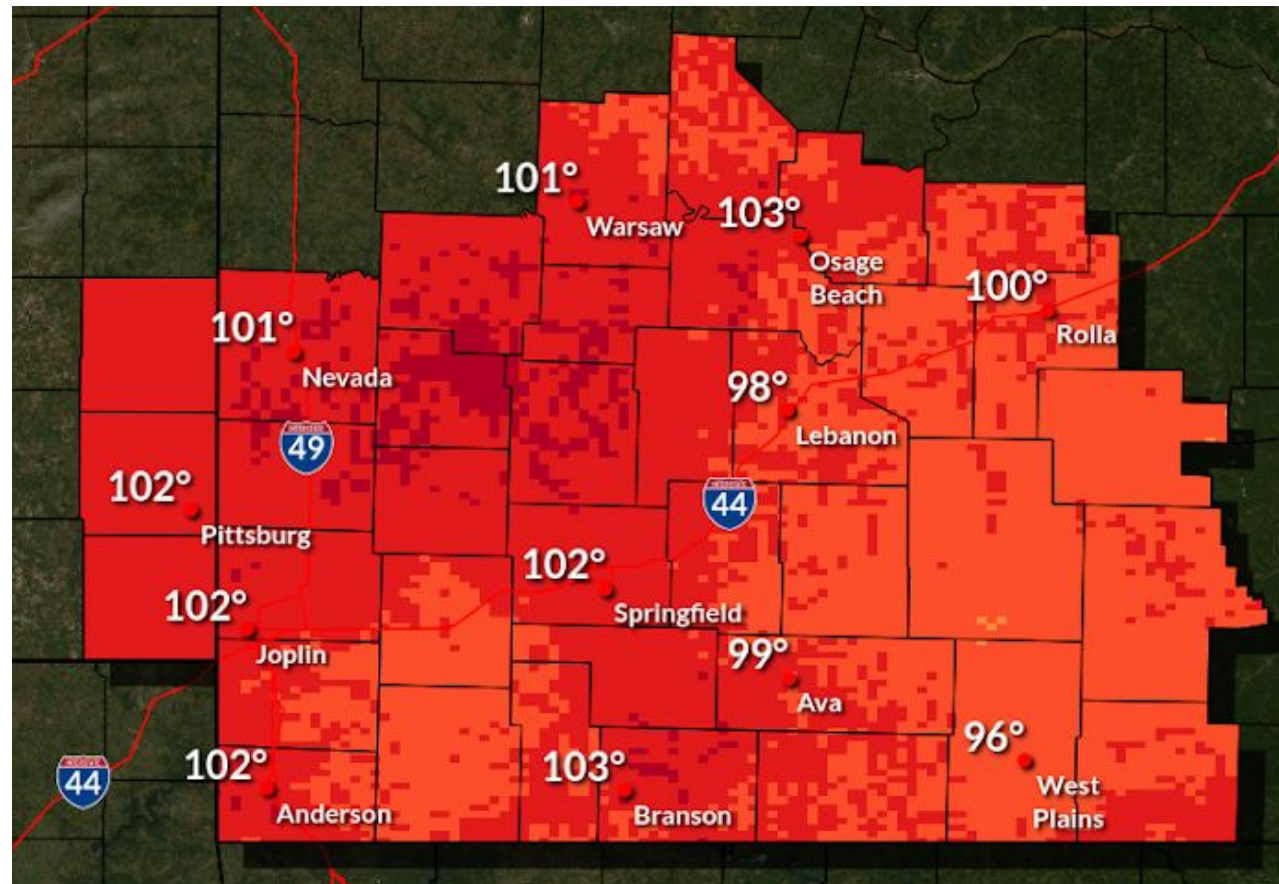
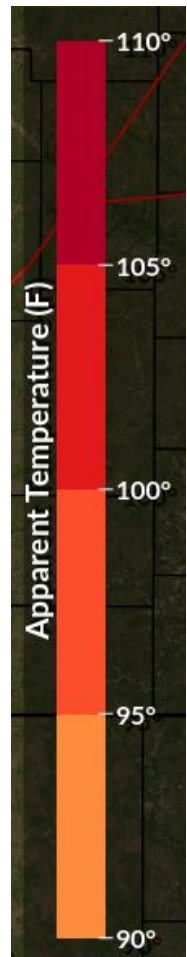




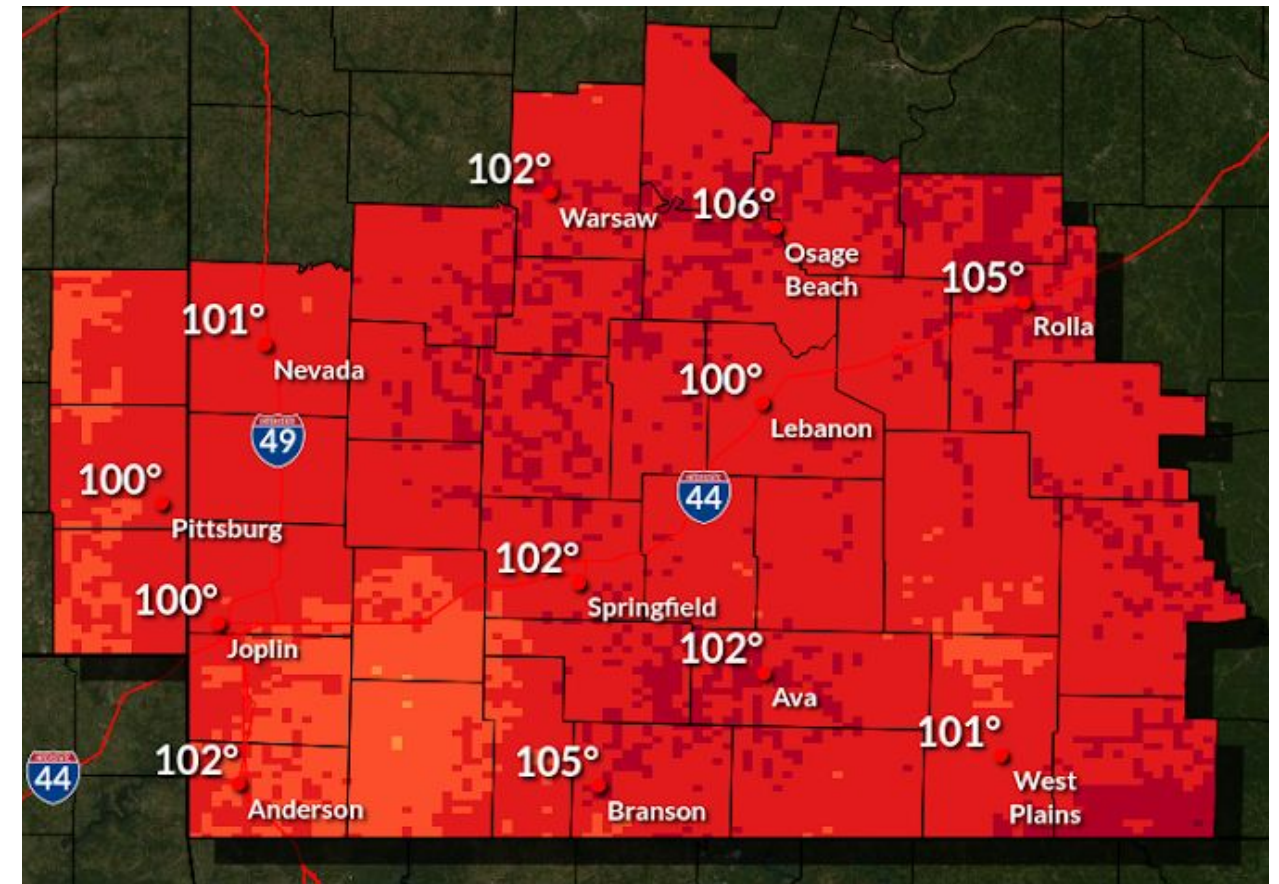
Apparent Temperature Forecast This Weekend

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Apparent Temperature Friday



Apparent Temperature Saturday

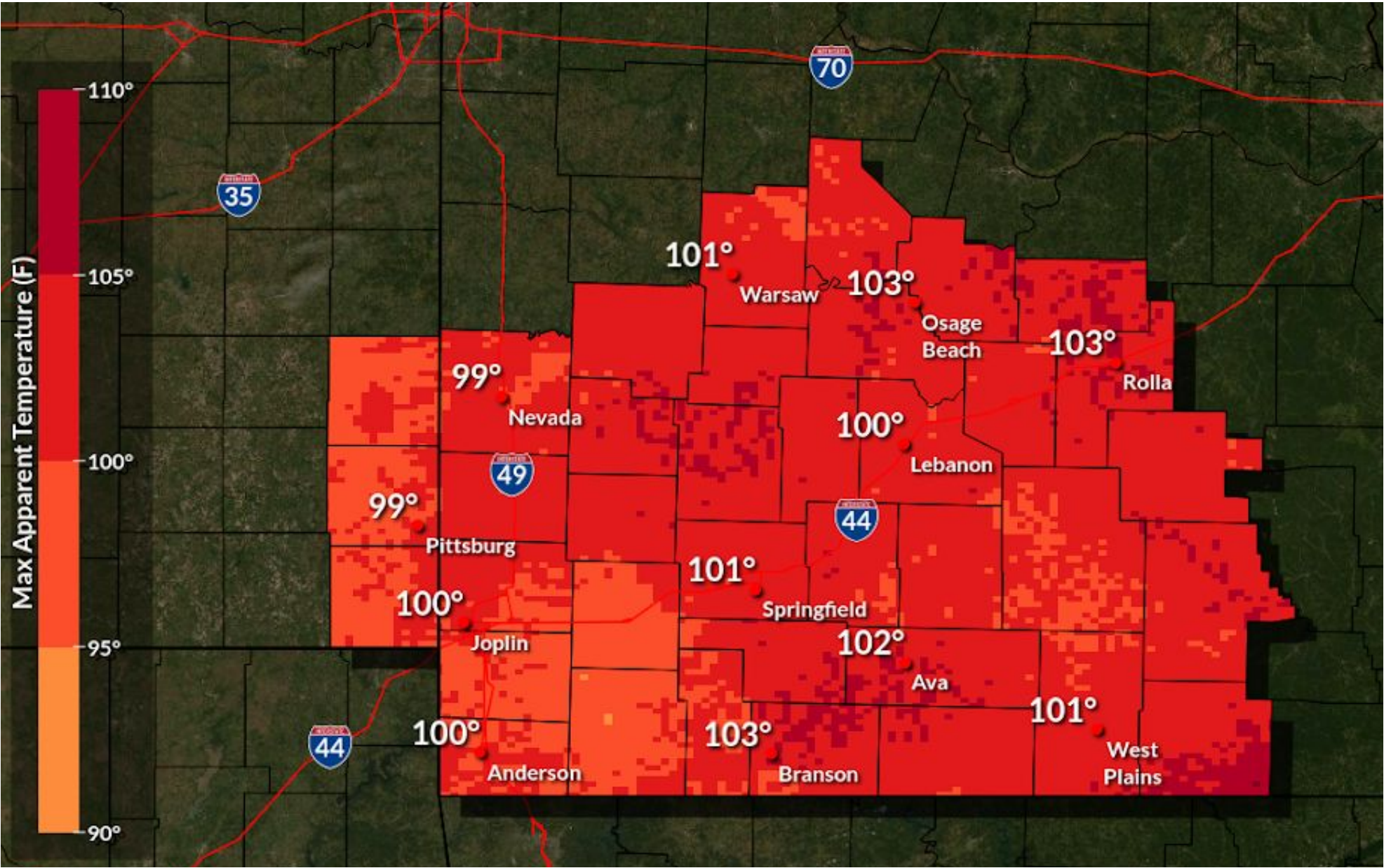




Apparent Temperature Forecast This Weekend

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Apparent Temperature Sunday

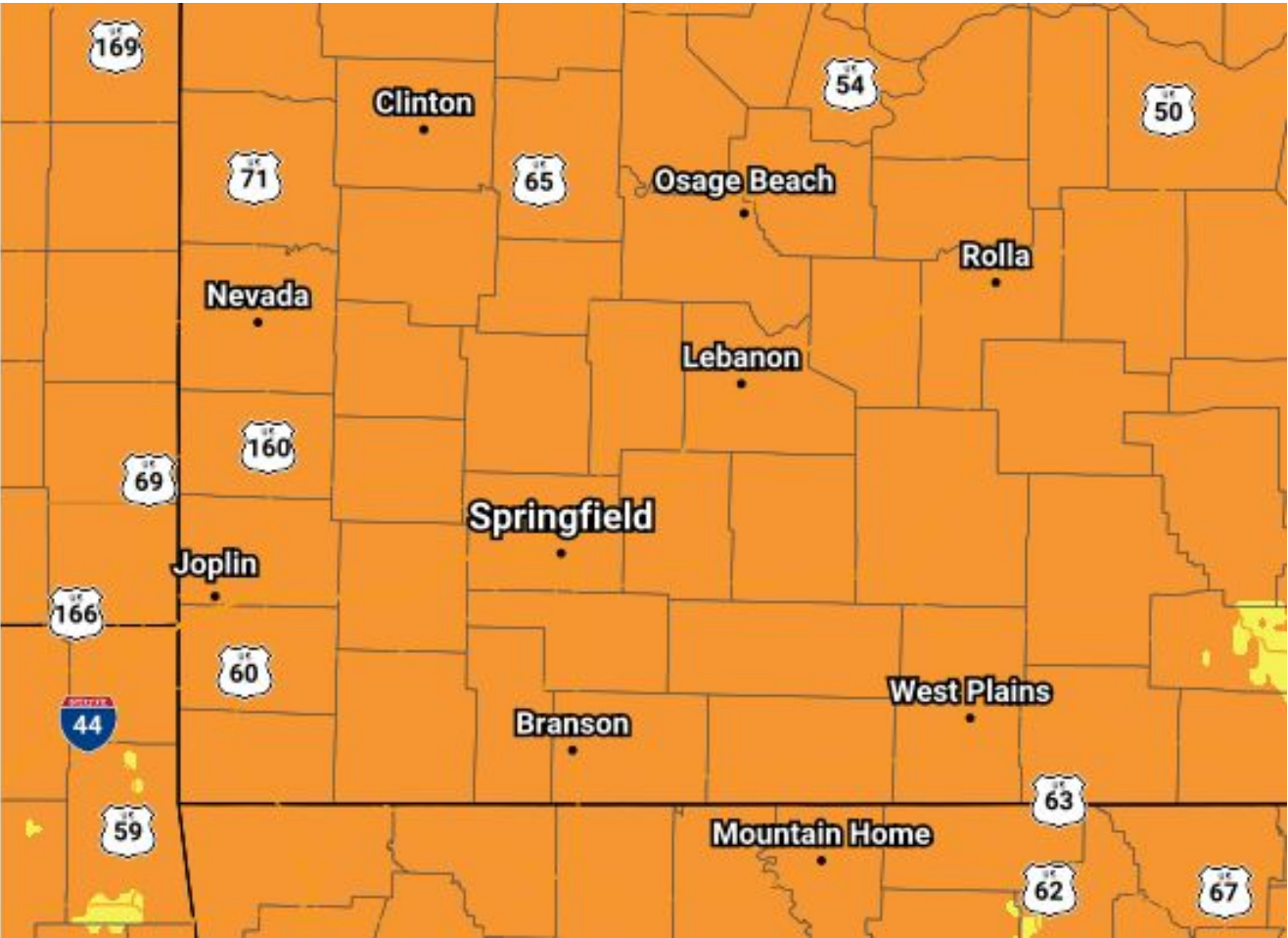




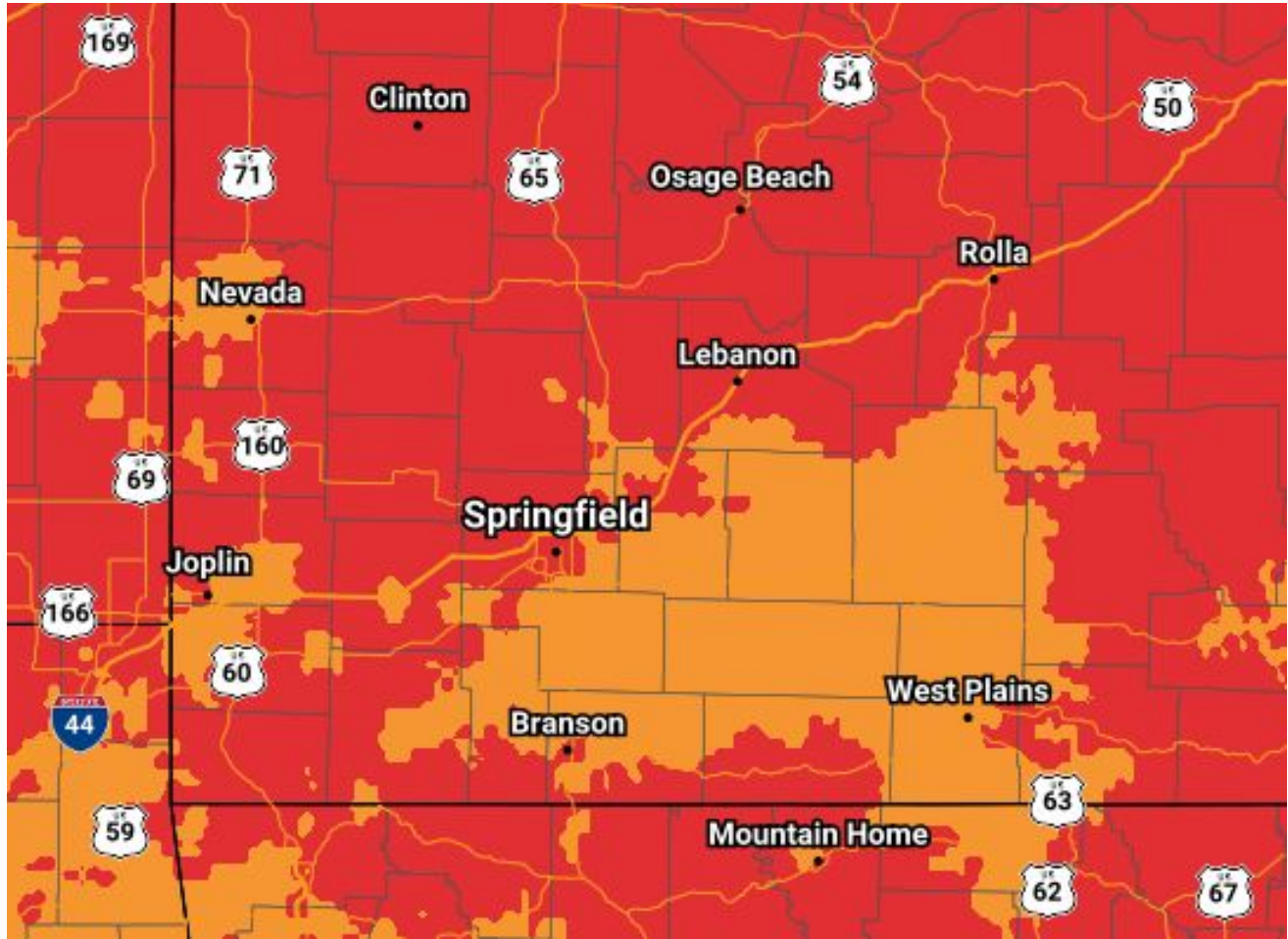
NWS HeatRisk Forecast This Weekend

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HeatRisk Friday



HeatRisk Saturday



HeatRisk: Potential Heat Impacts

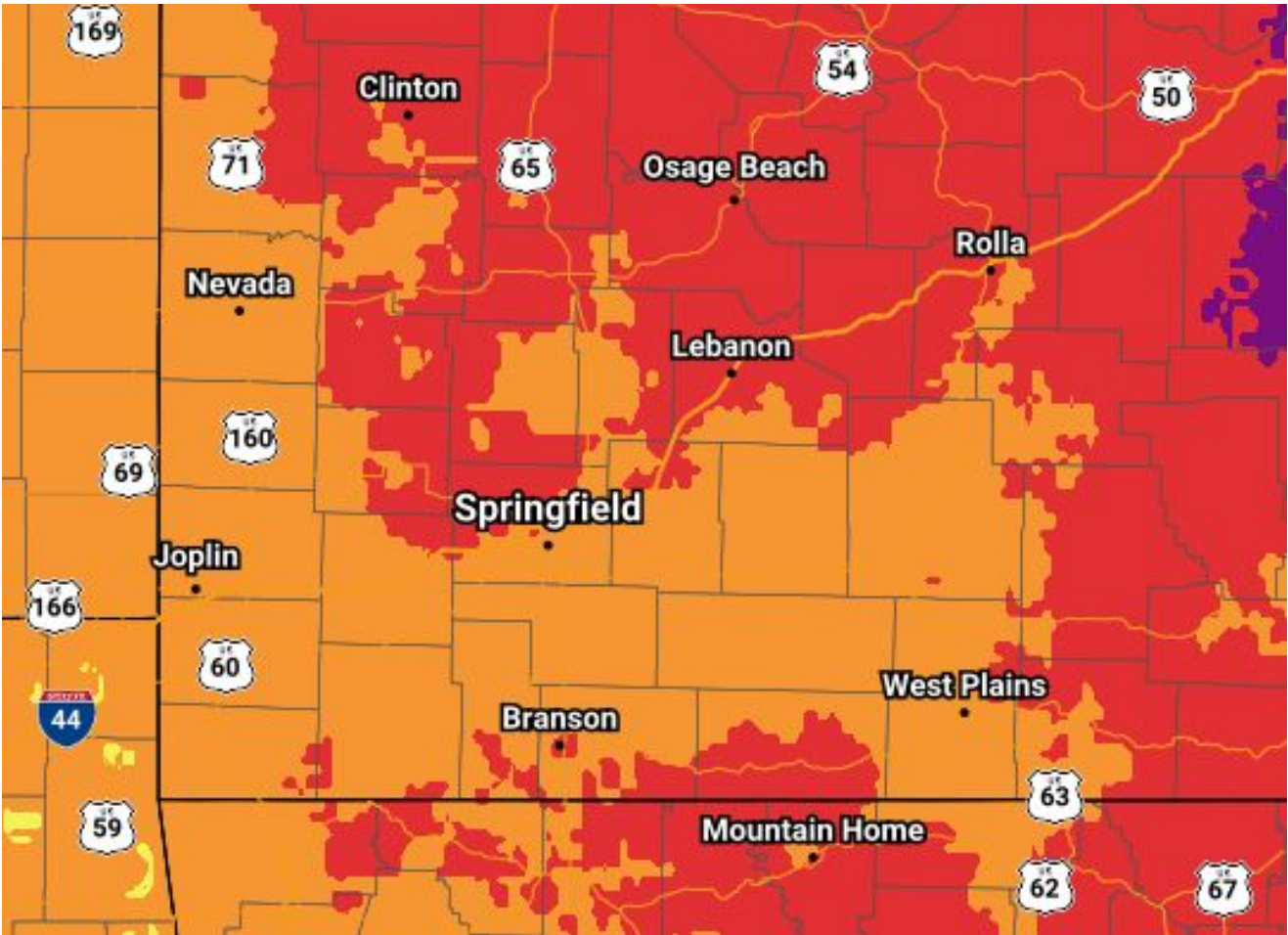
Little/None	Minor	Moderate	Major	Extreme
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NWS HeatRisk Forecast This Weekend

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HeatRisk Sunday



HeatRisk: Potential Heat Impacts				
Little/None	Minor	Moderate	Major	Extreme





Understanding NWS HeatRisk

NWS HeatRisk		
Category		Risk of Heat-Related Impacts
0	Low/None	Little to no risk from expected heat.
1	Minor	Primarily affects individuals extremely sensitive to heat, especially when outdoors without effective cooling and/or adequate hydration.
2	Moderate	Affects most individuals sensitive to heat, especially when outdoors without effective cooling and/or adequate hydration. Impacts possible in some health systems and in heat-sensitive industries.
3	Major	Affects anyone without effective cooling and/or adequate hydration. Impacts likely in some health systems, heat-sensitive industries, and infrastructure.
4	Extreme	Rare and/or long duration extreme heat with little to no overnight relief. Affects anyone without effective cooling and/or adequate hydration. Impacts likely in most health systems, heat-sensitive industries, and infrastructure.
<i>The NWS HeatRisk is an experimental color-numeric-based index that provides a forecast risk of heat-related impacts to occur over a 24-hour period. HeatRisk takes into consideration: How unusual the heat is for the time of the year. The duration of the heat including both daytime and nighttime temperatures. If those temperatures pose an elevated risk of heat-related impacts based on data from the CDC.</i>		





For Additional Information

- [NWS Springfield Webpage](#)
- [IDSS Point Forecasts](#)
- [Graphical Hazardous Weather Outlook](#)
- [SPC Convective Outlooks](#)
- [Submit Storm Reports](#)
- [CPC Day 8 to 14 Risk of Hazardous Temperatures](#)
- [Week 2 Global Probabilistic Extreme Forecast Tool](#)
- [Wet Bulb Globe and Heat Index Forecasts](#)
- [Experimental HeatRisk Forecast](#)
- [Missouri Cooling Centers Map](#)
- [NWS Heat Safety](#)
- [NWS Heat Tools Reference Sheet](#)
- [Wet Bulb Globe Temperature and Heat Index Information](#)

STORM PLANNING TIMELINE

A few days out	The day before	The day of
<i>If the forecast calls for severe weather in a few days, start preparing now.</i>	<i>The day before, forecast accuracy continues to improve.</i>	<i>Remain vigilant and aware of any active Watches. A Warning may be issued at a moment's notice!</i>
Make sure that you have emergency supplies	Adjust plans	Remind your family of the communication plan
Know your safe places	Make sure your phone can receive WEAs	Know how to evacuate and/or get to safety from wherever you are
Have a family communication plan	Ensure your shelter is clean and accessible	When a Warning is issued, you may only have seconds to take action!

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