

Excessive Heat and Severe Thunderstorms

July 12, 2023

4:35 AM

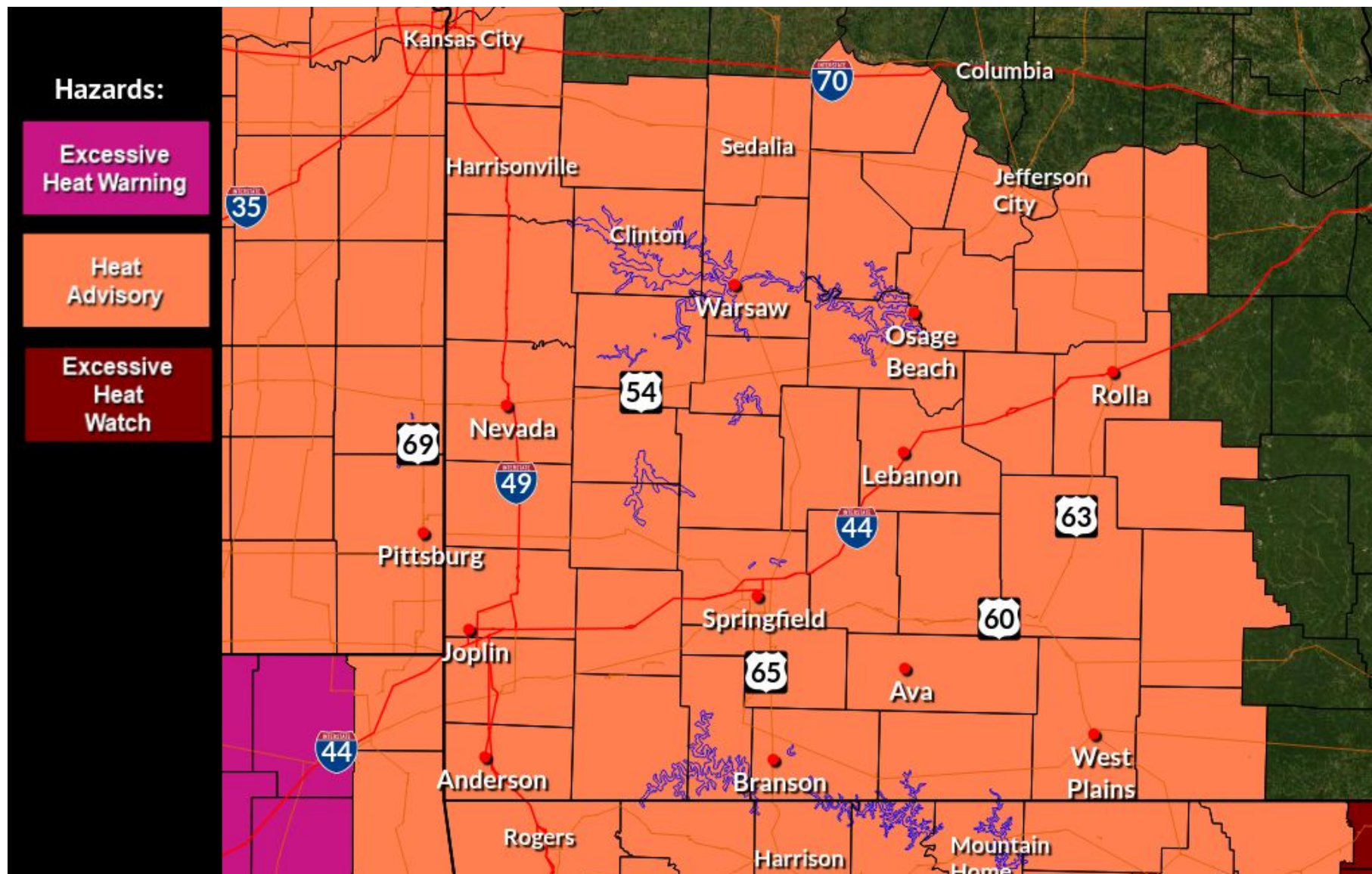
Today and Tonight

Key Messages

- A Heat Advisory is in effect from 12 PM - 7 PM today
- Heat index values of 100-110 degrees are expected across the area
- Strong to severe thunderstorms will be possible this evening into Thursday morning
- Primary hazards include hail up to golf balls, damaging wind gusts up to 75 mph, and localized heavy rainfall

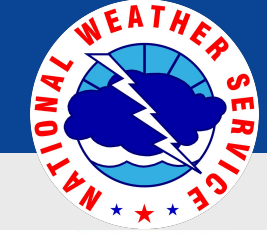
Next Scheduled Briefing

- Wednesday afternoon by 4 PM



Heat Advisory Today

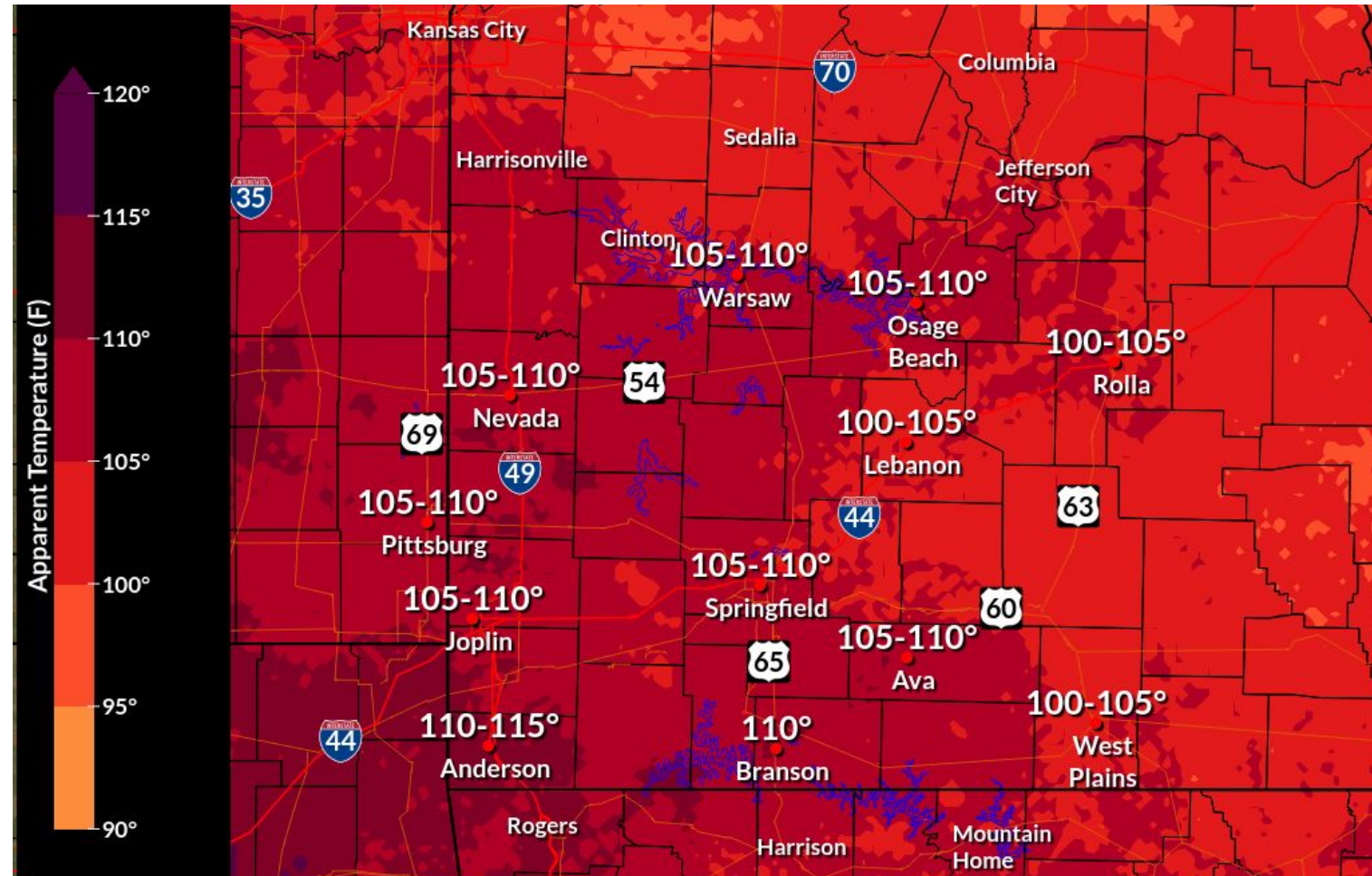




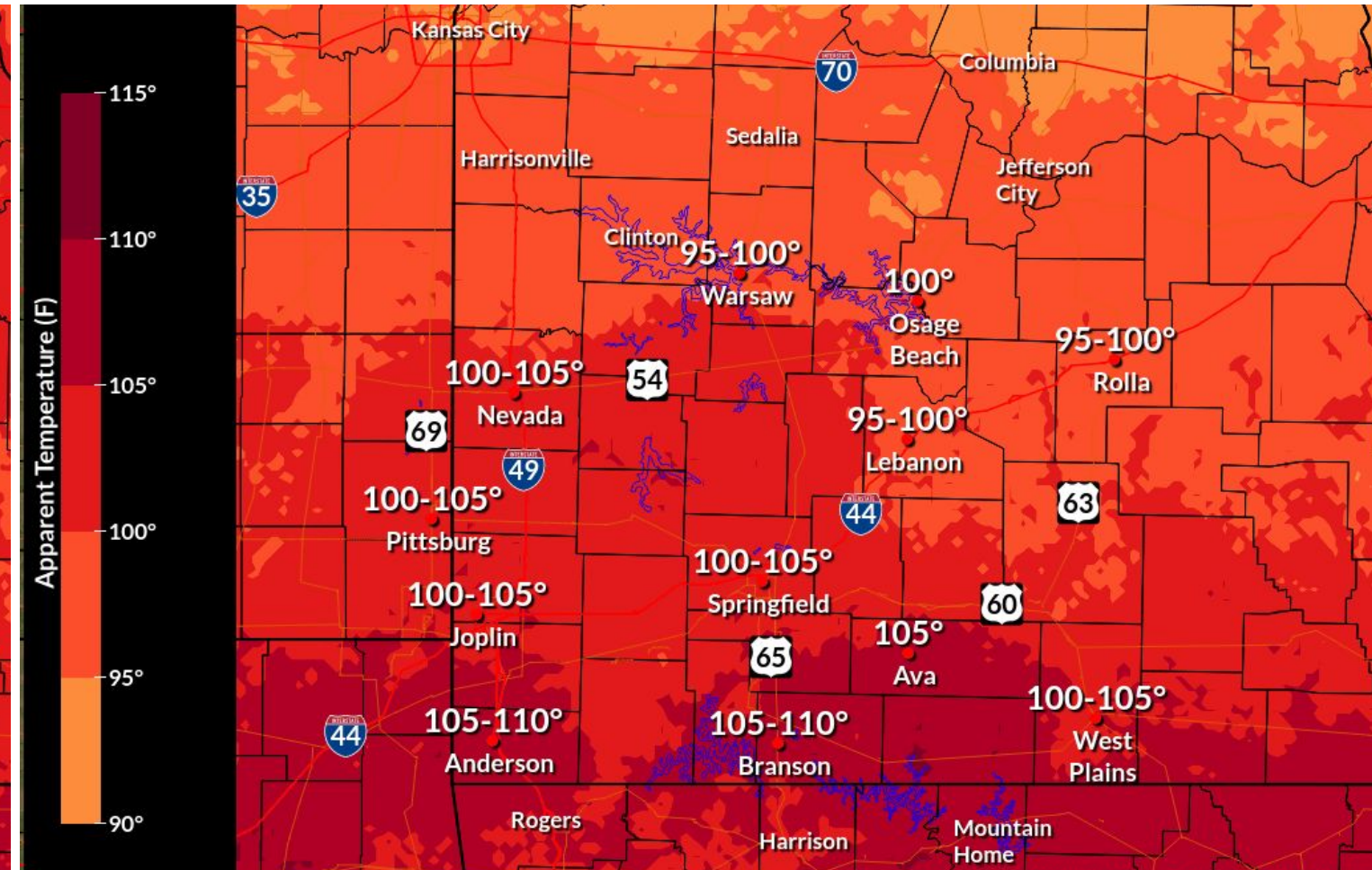
Heat Index Today and Tomorrow

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Hottest Today

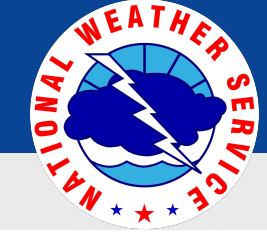


Heat Index Today



Heat Index Tomorrow



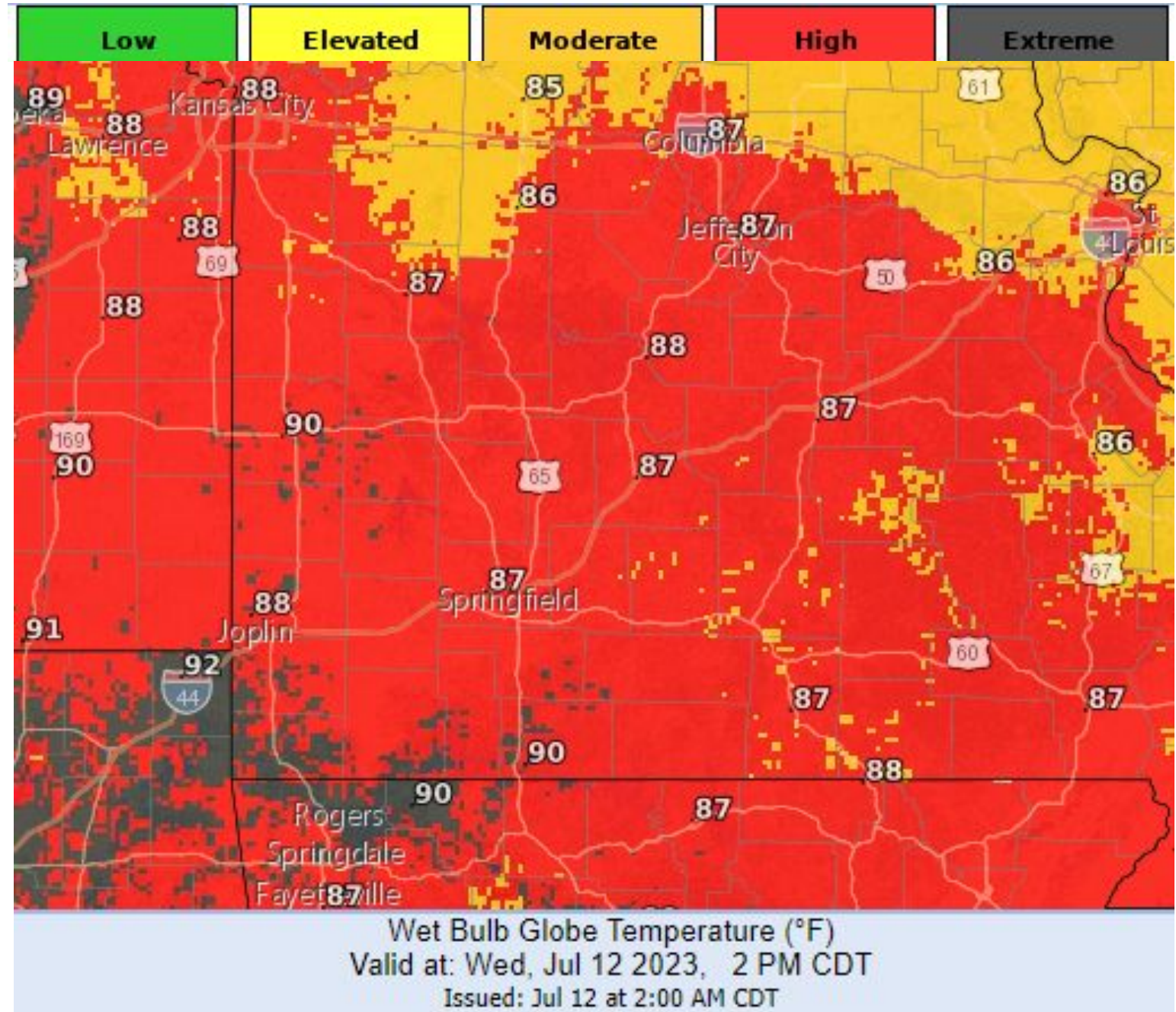


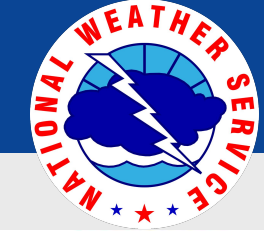
Wet Bulb Globe Temperature

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	WBGT	HEAT INDEX
Measured in the sun	●	●
Measured in the shade	●	●
Uses temperature	●	●
Uses relative humidity	●	●
Uses wind	●	●
Uses cloud cover	●	●
Uses sun angle	●	●

For More Information:
<https://digital.mdl.nws.noaa.gov/>





Understanding Wet Bulb Globe Temperatures

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WBGT / RISK	IMPACTS	ACTIONS
80-85 F / Low	Body stressed after 45 minutes	Take at least 15 minutes of breaks each hour if working or exercising in direct sunlight, Stay hydrated.
85-88 F / Moderate	Body stressed after 30 minutes. HEAT CRAMPS likely (painful contraction of muscles, weakness)	Take at least 30 minutes of breaks each hour if working or exercising in direct sunlight. Drink ½ to 1 quart of water per hour.
88-90 F / High	Body stressed after 20 minutes. HEAT EXHAUSTION likely (dizziness, nausea, vomiting, headache, fainting, disorientation, weakness)	Take at least 40 minutes of breaks each hour if working or exercising in direct sunlight. Reduce work, exercise intensity. Drink up to 1 quart of water per hour.
> 90 F / Extreme	Body stressed after 15 minutes. HEAT STROKE likely (extremely high body temp, confusion, convulsions, unconsciousness, death)	Take at least 45 minutes of breaks each hour if working or exercising in direct sunlight. Suspend all strenuous outdoor activities. Drink at least 1 quart of water per hour.

Adapted from U.S Army and OSHA guidelines and recommendations





SPC Severe Outlook for Today

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Slight Risk of Severe Thunderstorms

Overview

Strong to severe thunderstorms will be possible this evening into Thursday morning.

Actions



Be weather aware and ready to act. Have multiple ways to receive warning information!

Severe Threats



Large Hail

Up to golf balls

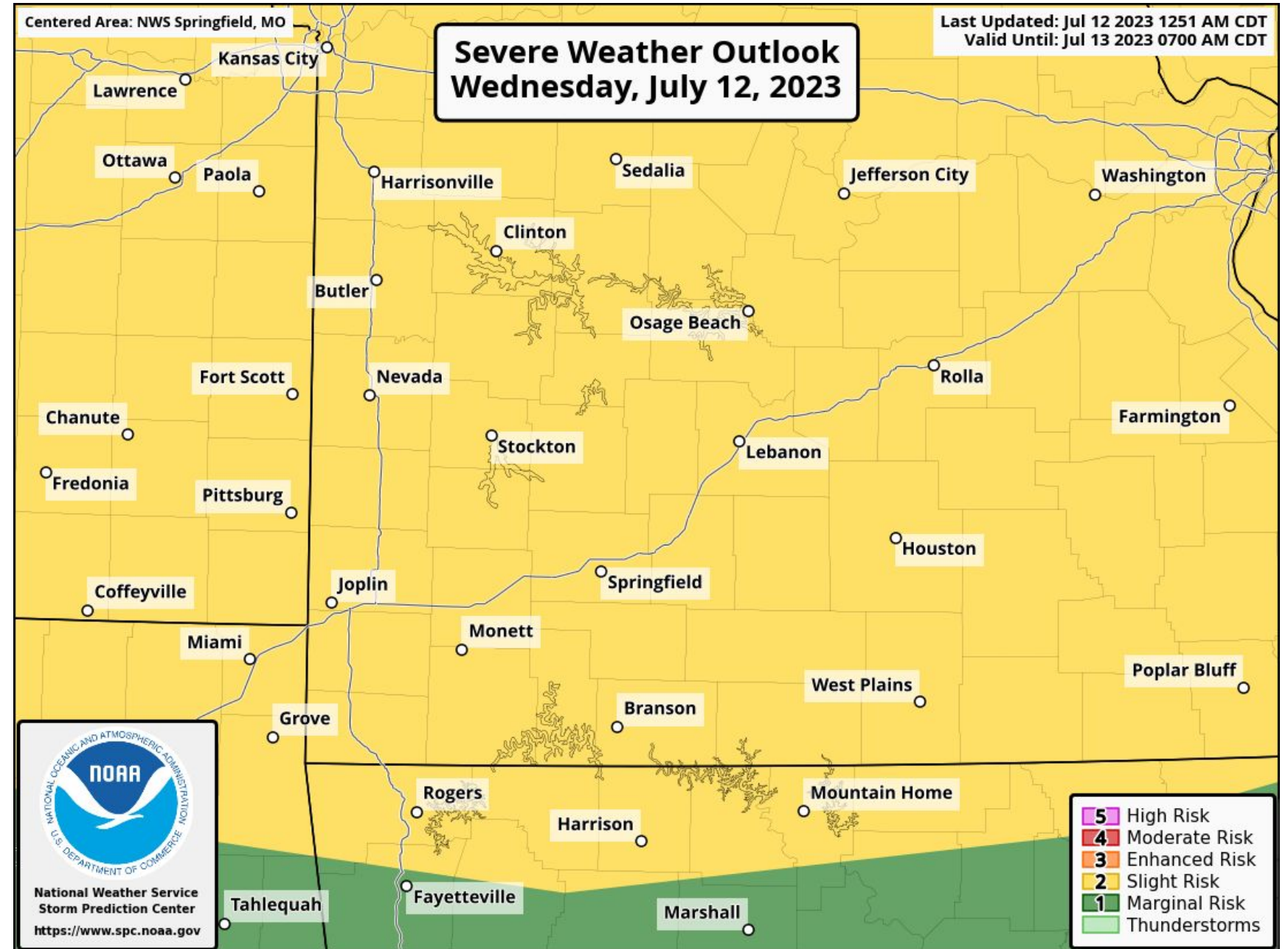


Damaging Wind

Up to 75 mph



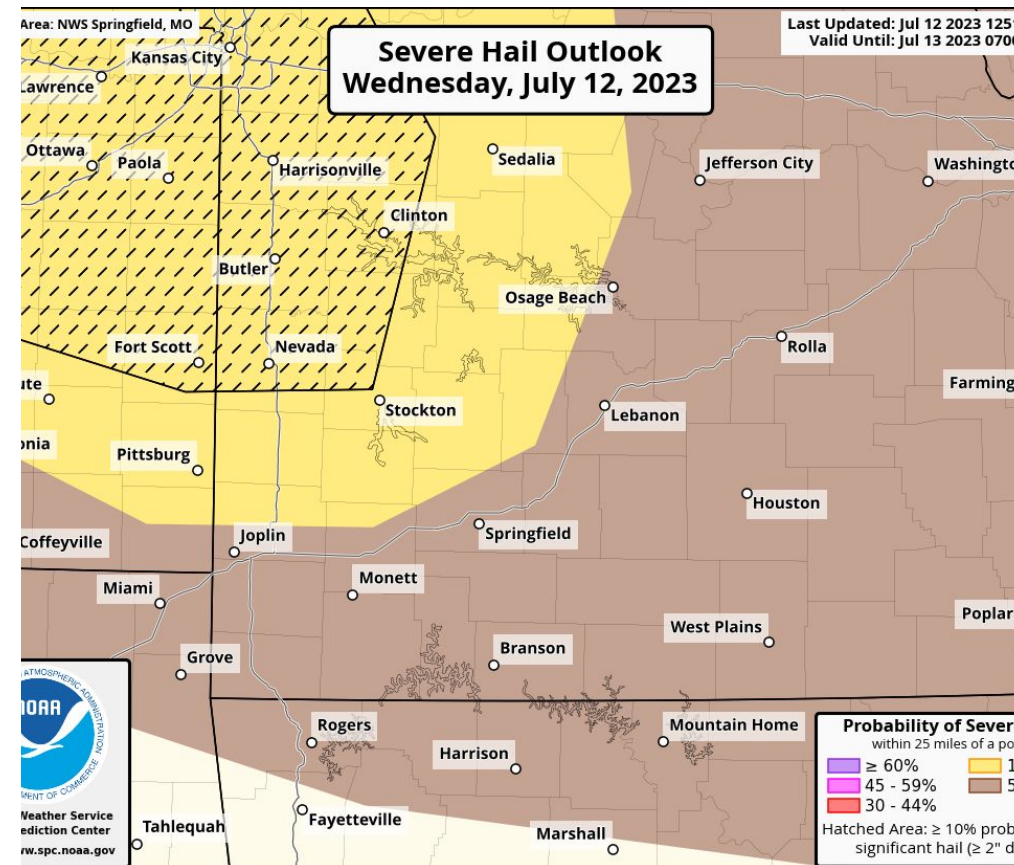
Localized Heavy Rainfall



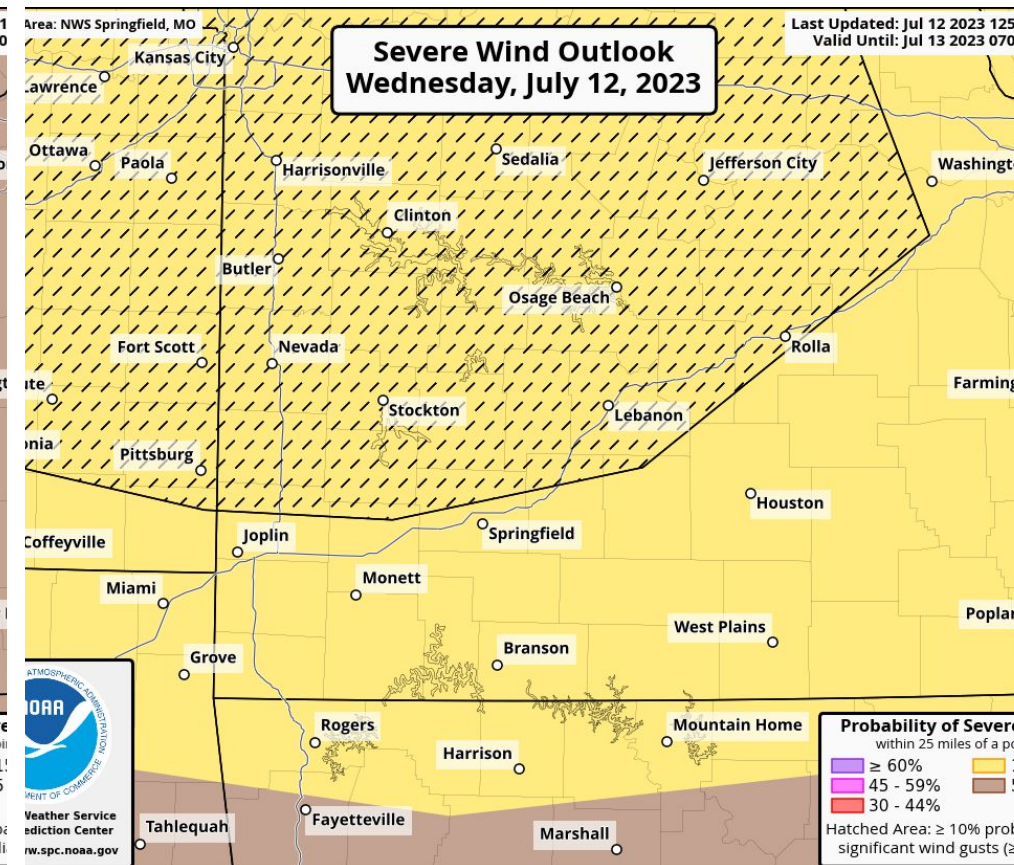


SPC Outlook Hazard Probabilities

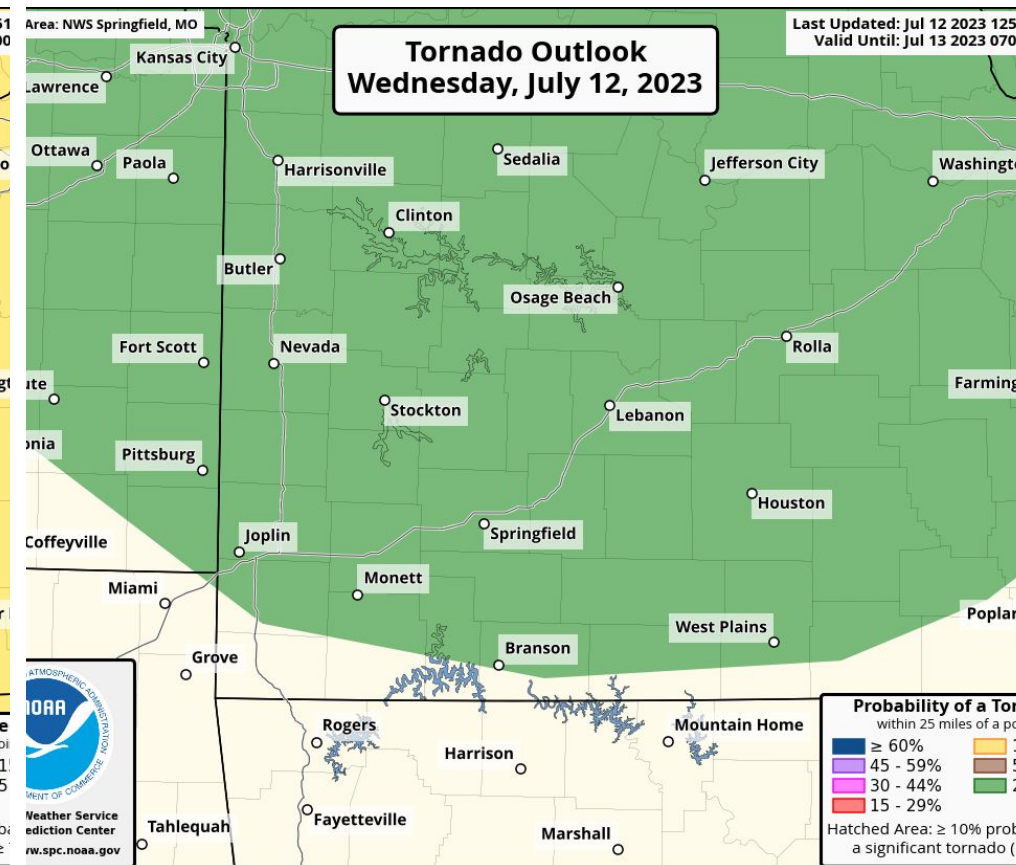
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Hail Probability



Wind Probability



Tornado Probability



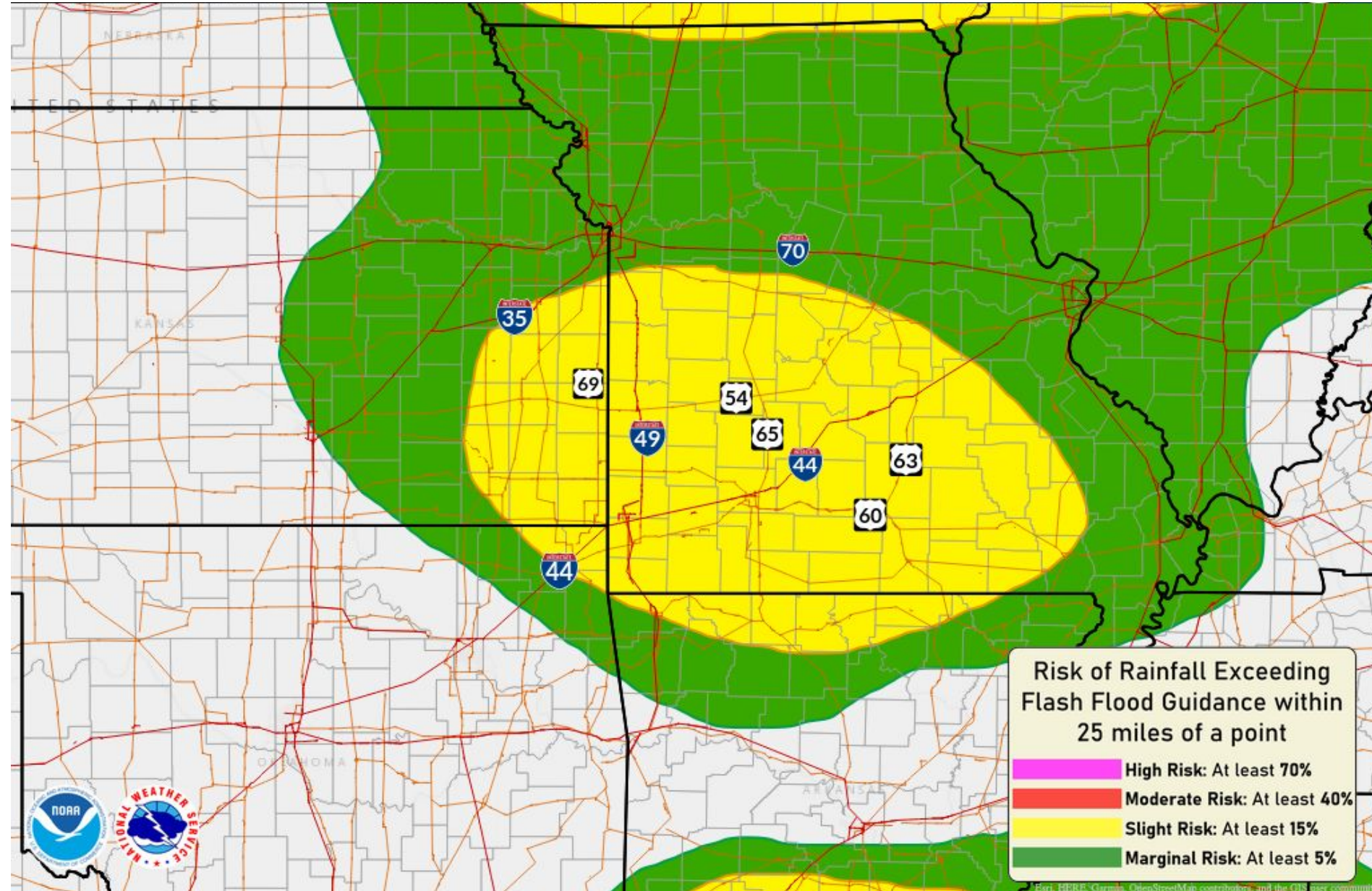
Localized Flash Flooding Possible

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This Evening through Thursday Morning

What

- Widespread rainfall totals of 0.5 to 1.0 inches are expected this evening into Thursday morning.
- Localized pockets up to 3-4 inches possible under repeated heavy downpours could result in flash flooding.
- Additional rainfall expected Thursday night into Friday.



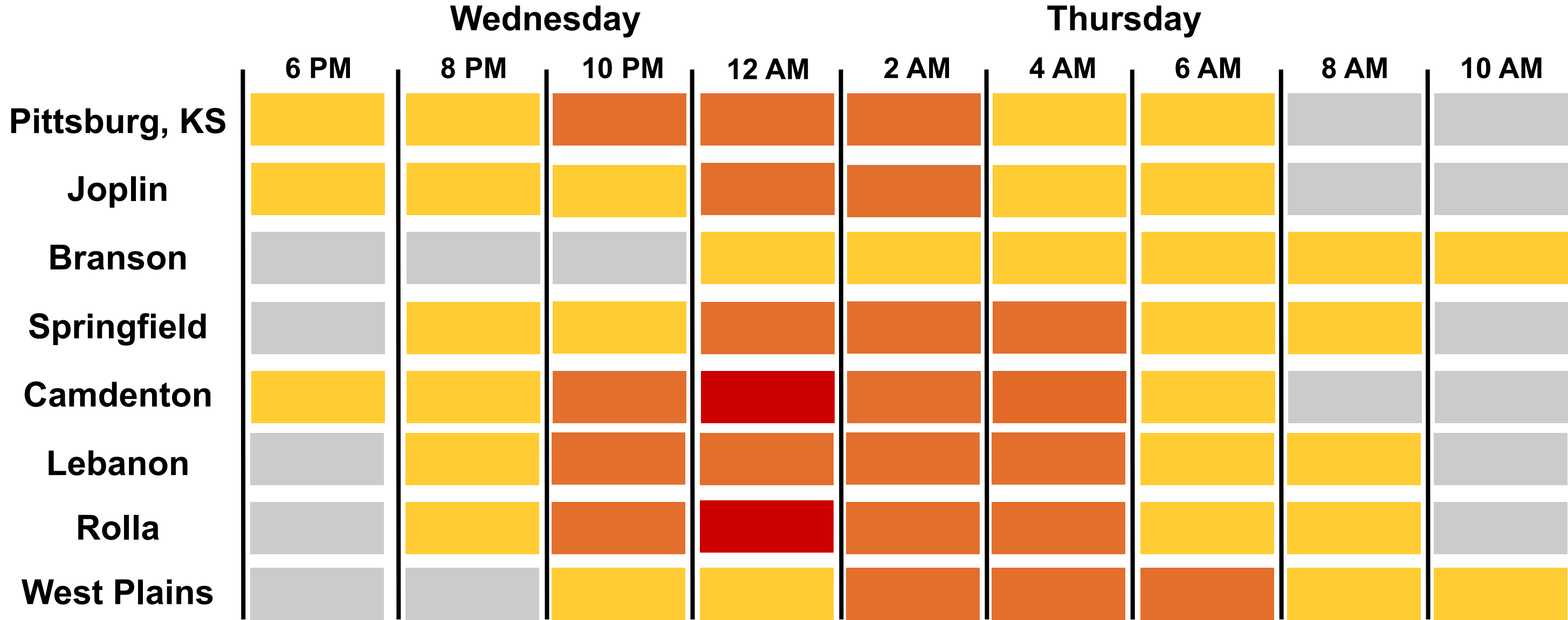
Excessive Rainfall Outlook This Evening - Thursday AM





Thunderstorm Timing Tonight

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Shower and Thunderstorm Chances

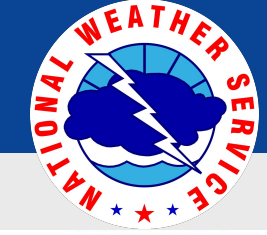
None

Low

Medium

High





Additional Resources

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For Additional Information

- [NWS Springfield Webpage](#)
- [IDSS Point Forecasts](#)
- [Graphical Hazardous Weather Outlook](#)
- [CPC Day 8 to 14 Risk of Hazardous Temperatures](#)
- [Wet Bulb Globe Temperatures Forecast](#)
- [Missouri Cooling Centers Map](#)
- [NWS Heat Safety](#)
- [SPC Convective Outlooks](#)
- [Submit Storm Reports](#)

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Heat Exhaustion	Heat Stroke
<p>ACT FAST</p> <ul style="list-style-type: none"> • Move to a cooler area • Loosen clothing • Sip cool water • Seek medical help if symptoms don't improve 	<p>ACT FAST</p> <p>CALL 911</p> <ul style="list-style-type: none"> • Move person to a cooler area • Loosen clothing and remove extra layers • Cool with water or ice
<p>Dizziness</p> <p>Thirst</p> <p>Heavy Sweating</p> <p>Nausea</p> <p>Weakness</p>	<p>Confusion</p> <p>Dizziness</p> <p>Becomes Unconscious</p>
<p><i>Heat exhaustion can lead to heat stroke.</i></p> <p><i>Heat stroke can cause death or permanent disability if emergency treatment is not given.</i></p>	



Stay Cool, Stay Hydrated, Stay Informed!



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

