



Severe Weather and Heat Hazards

August 19, 2026
4:04 AM

Key Messages

- Marginal (1 of 5) to Slight (2 of 5) risks for severe weather and flooding this afternoon and evening/night.
- Heat Advisory through this evening for portions of southern Missouri.

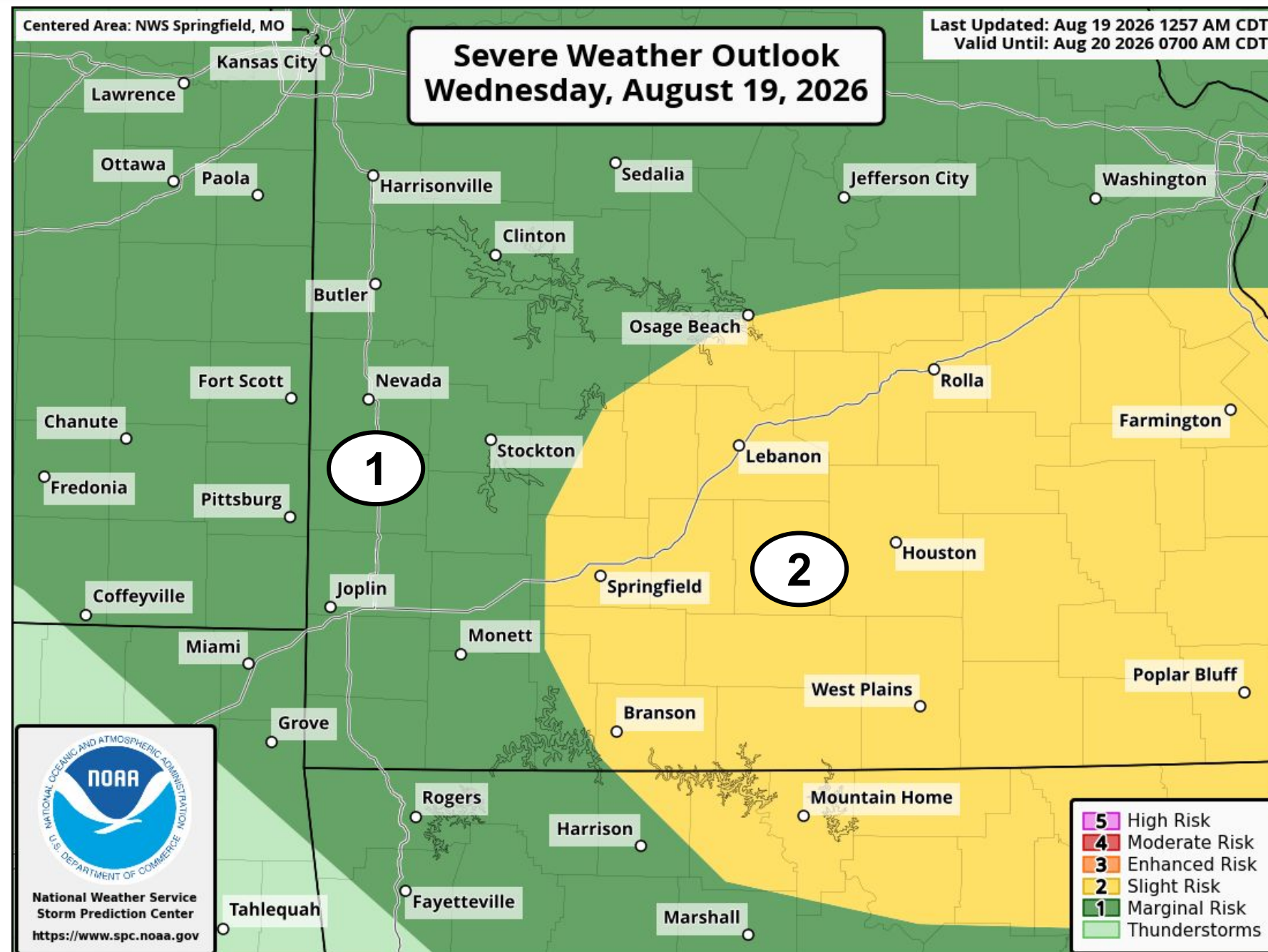
NEW

Important Updates

- Heat Advisory in effect through this evening for extreme southern Missouri.

Next Scheduled Briefing

- This afternoon - evening



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

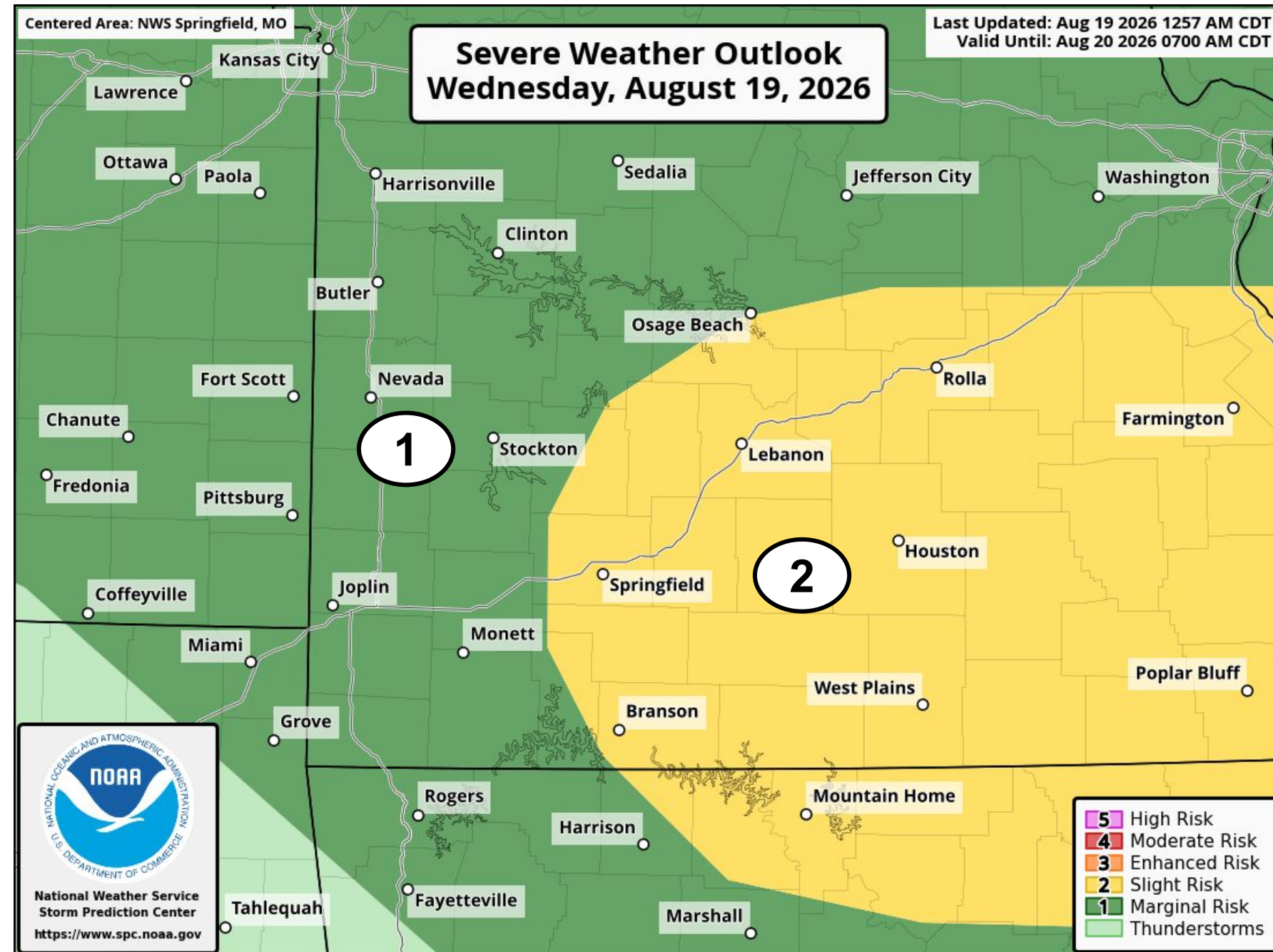
National Weather Service
Springfield, MO



Severe Outlook Today

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- Severe weather will be possible across the entire area through this evening, with southeastern portions of the area favored for the greatest risk.
- Damaging winds are the primary hazard, but all hazards may be possible with this activity.
- Threat area and risk level will depend on how the storm complex that moves through this morning evolves, so stay tuned for updates.



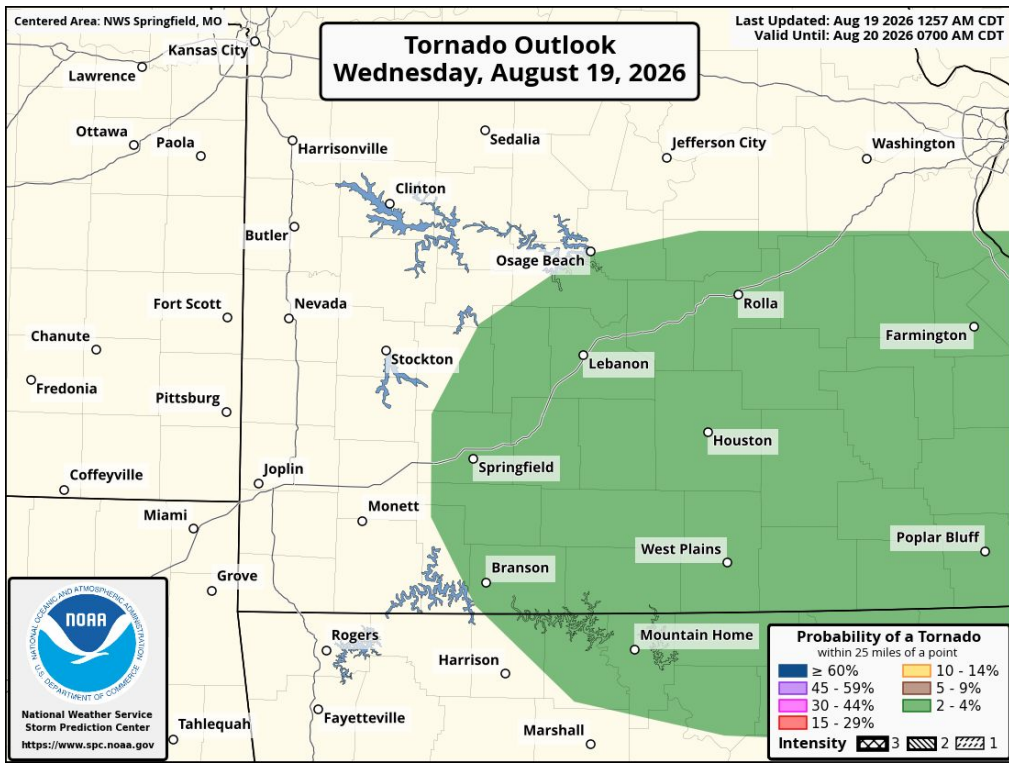
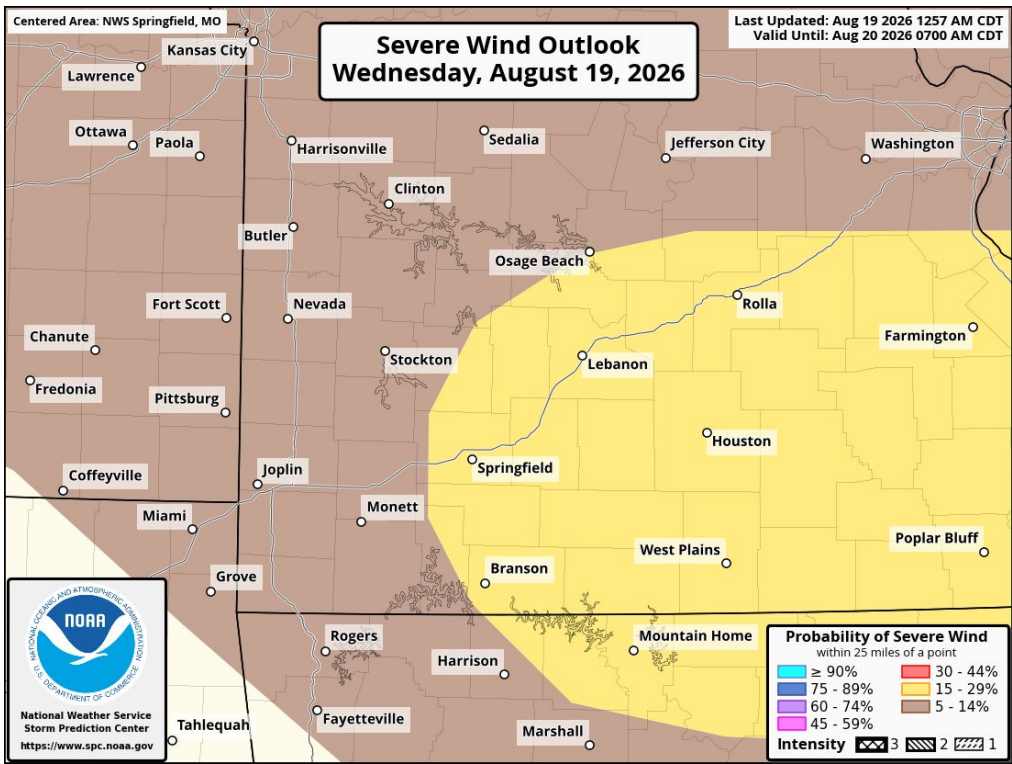
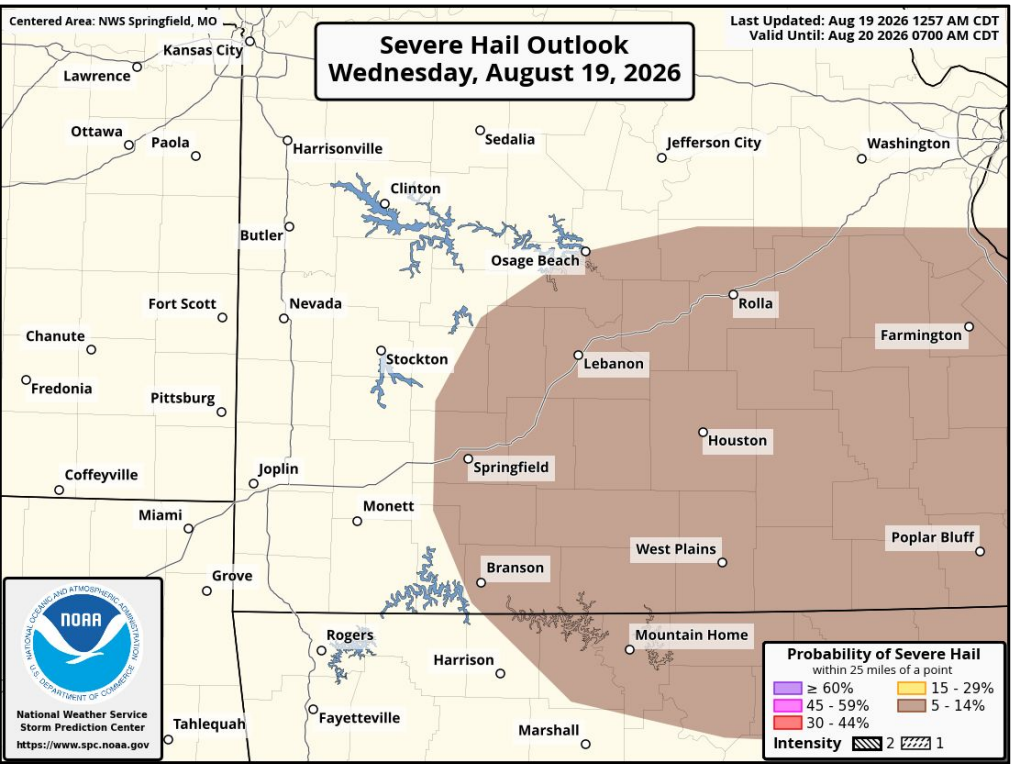
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Hazard Probabilities Tonight

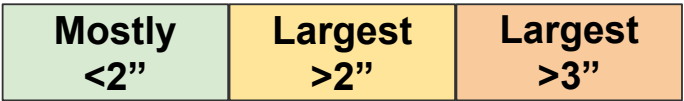
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Hail Probability



Reasonable Maximum Intensity



Wind Probability



Reasonable Maximum Intensity



Tornado Probability



Reasonable Maximum Intensity



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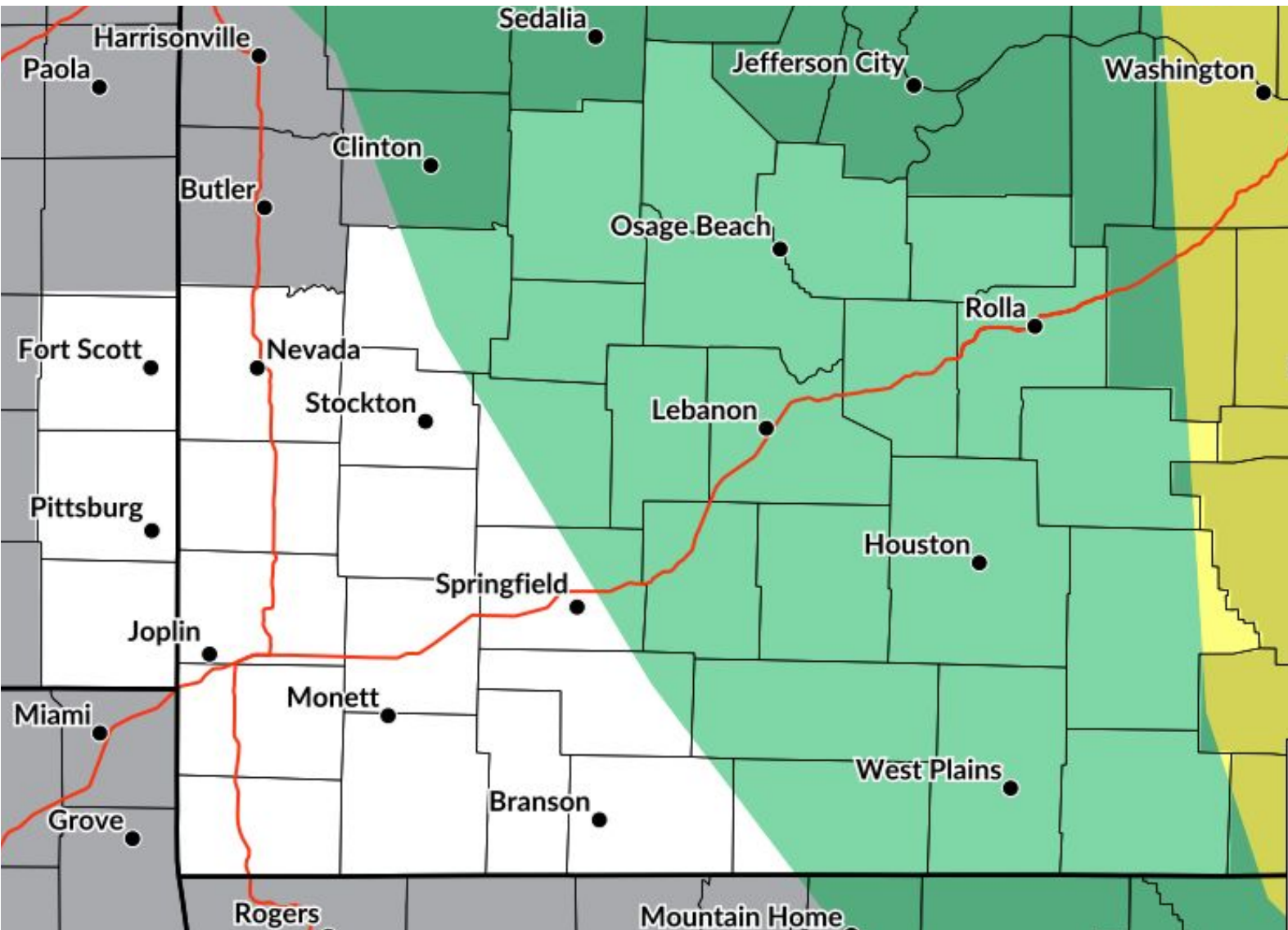
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Flooding Potential

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Through this Tonight



Rounds of heavy rainfall may bring flooding to portions of central Missouri this morning and the eastern ozarks on this afternoon and evening.

- Probability of excessive rainfall leading to flash flooding.*
- High Risk, At least 70%
 - Moderate Risk, At least 40%
 - Slight Risk, At least 15%
 - Marginal Risk, At least 5%

Excessive Rainfall Outlook through Tonight





Heat Advisory Today

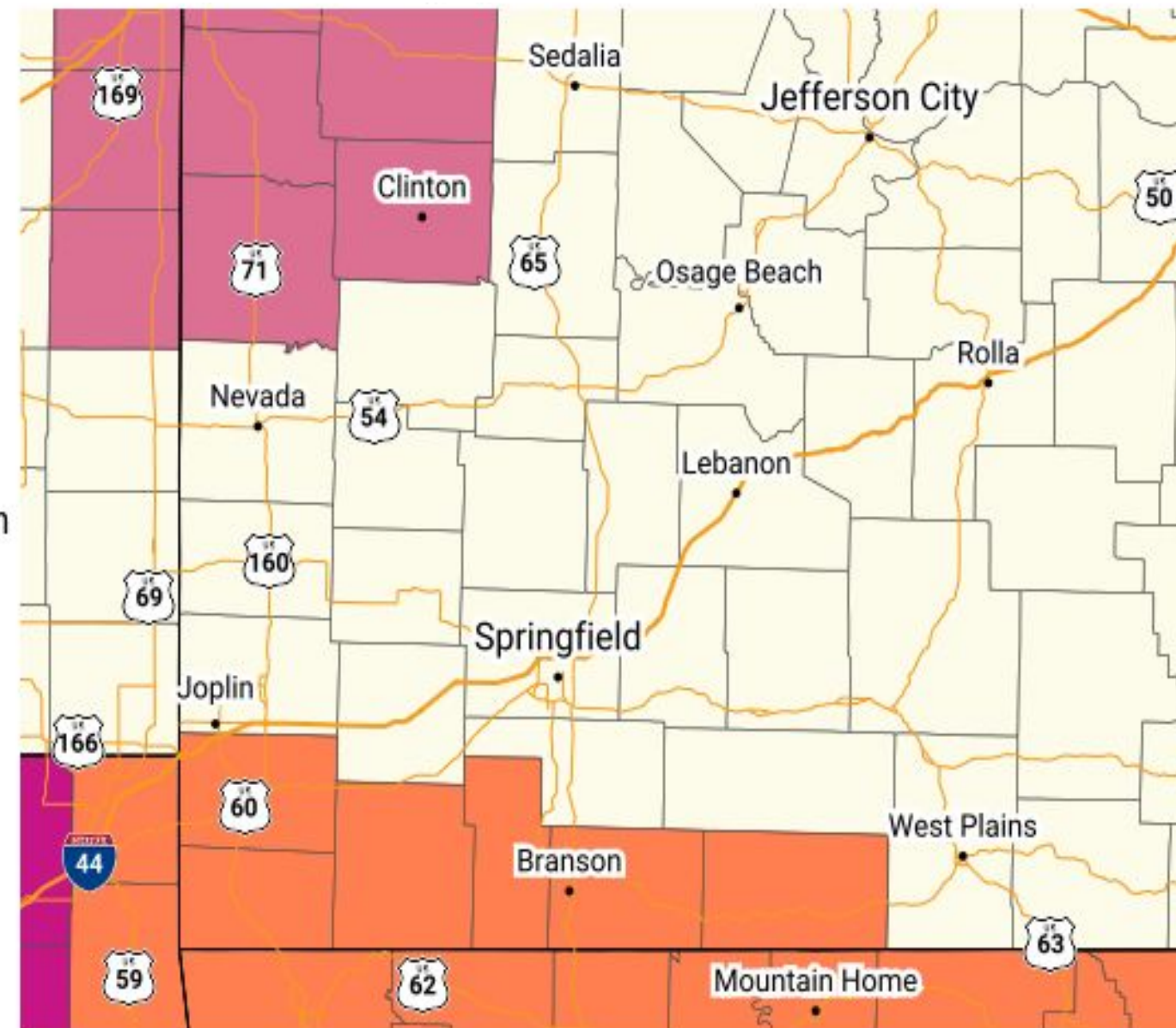
Valid Until 8 PM this Evening

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- Heat Index values of 105 to 110 degrees this afternoon across extreme southern Missouri.
- A slight northward expansion may be necessary and is being monitored.

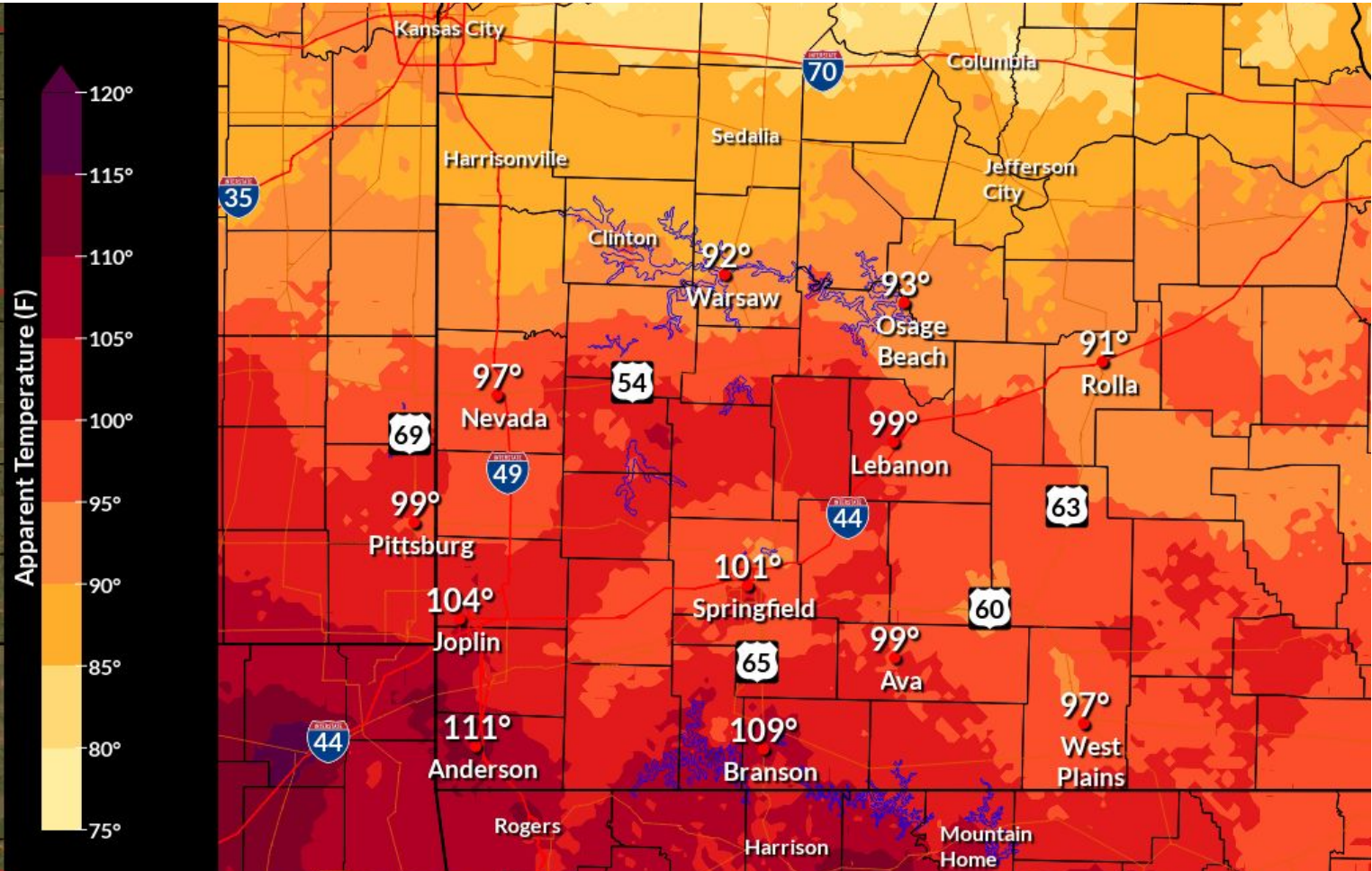
- Heat Advisory
- Severe Thunderstorm Watch
- Extreme Heat Warning





Heat Index Today

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Heat Index Today





Understanding Heat Index

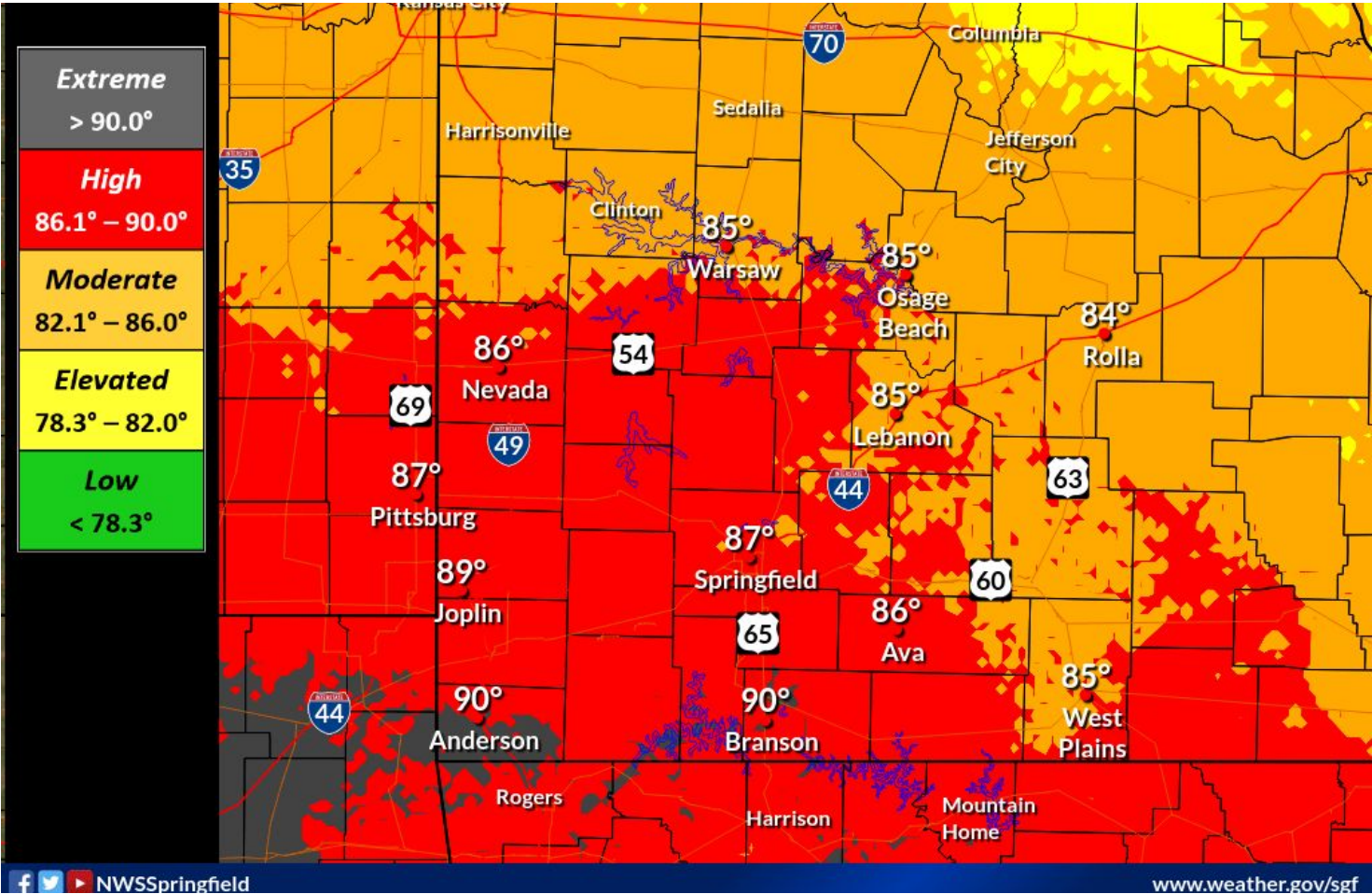
Heat Index		
Classification	Heat Index (°F)	Effect on the Body
Caution	80 to 89	Fatigue possible with prolonged exposure and/or physical activity.
Extreme Caution	90 to 102	Heat stroke, heat cramps or heat exhaustion possible with prolonged exposure and/or physical activity.
Danger	103 to 124	Heat cramps or heat exhaustion likely, and heat stroke possible with prolonged exposure and/or physical activity.
Extreme Danger	125 or higher	Heatstroke highly likely with continued exposure.
<i>Heat Index is the most commonly used and understood heat tool by the general public. The higher the values the hotter it's going to feel and the higher the threat for heat related illnesses. It's calculated from the temperature and relative humidity. Heat Index assumes you are in the shade. The Heat Index or the "Apparent Temperature" is an accurate measure of how hot it really feels when the Relative Humidity (RH) is added to the actual air temperature.</i>		





Wet Bulb Globe Temperature Forecast

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Maximum WBGT Today





Understanding Wet Bulb Globe Temperatures

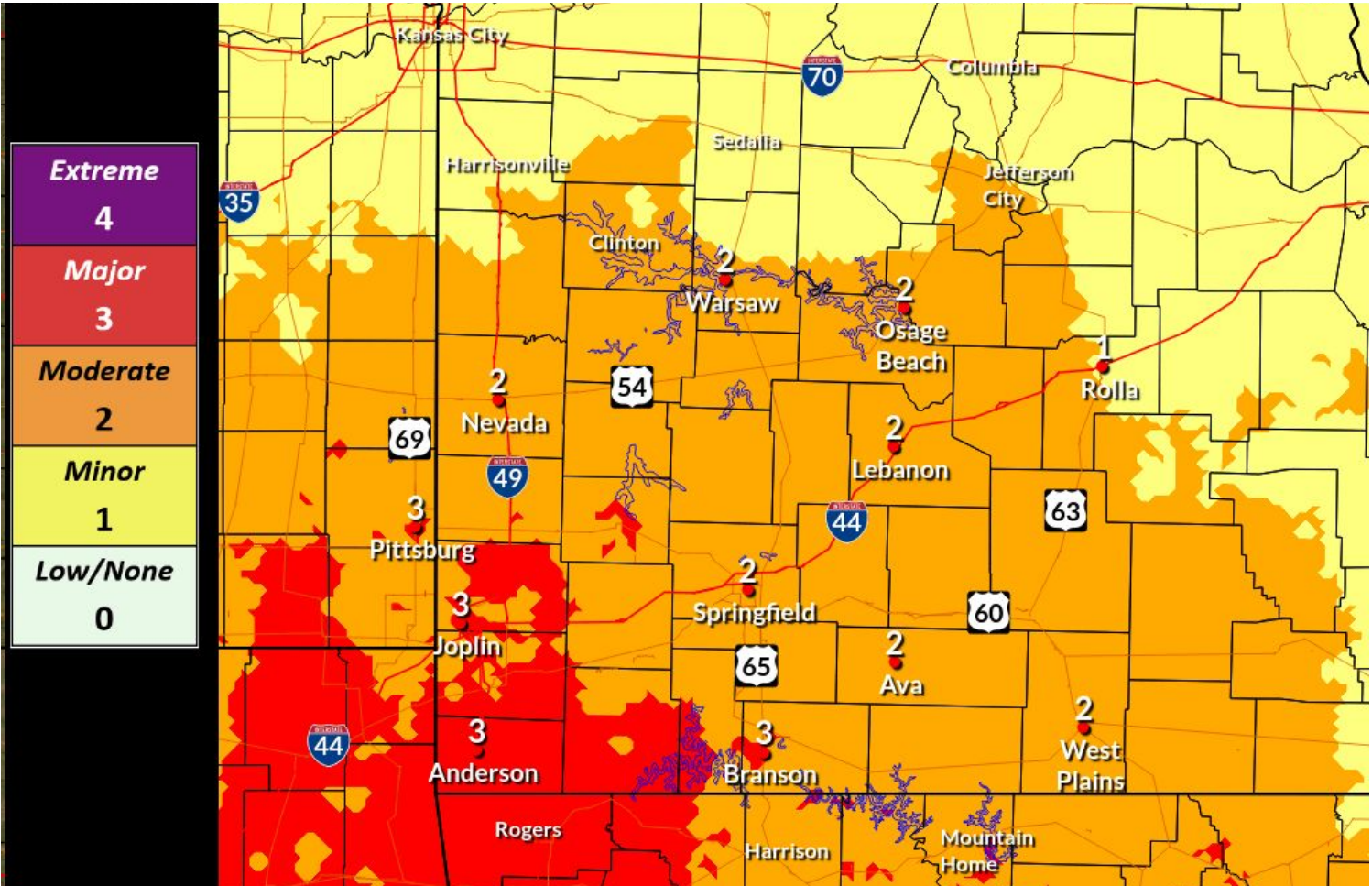
Wet Bulb Globe Temperature (WBGT)			
Threat Level	WBGT (°F)	Effects	Call to Actions
Low	< 78.3	Normal activities.	Take at least 3-5 minutes of breaks each hour if working or exercising in direct sunlight.
Elevated	78.3 – 82.0	Working or exercising in direct sunlight will stress your body after 45 minutes.	Take at least 15 minutes of breaks each hour if working or exercising in direct sunlight.
Moderate	82.1 – 86.0	Working or exercising in direct sunlight will stress your body after 30 minutes.	Take at least 30 minutes of breaks each hour if working or exercising in direct sunlight.
High	86.1 – 90.0	Working or exercising in direct sunlight will stress your body after 20 minutes.	Take at least 40 minutes of breaks each hour if working or exercising in direct sunlight.
Extreme	> 90.0	Working or exercising in direct sunlight will stress your body after 15 minutes.	Take at least 45 minutes of breaks each hour if working or exercising in direct sunlight.
<i>Wet Bulb Globe Temperature (WBGT) is a measure of the heat stress in direct sunlight, which takes into account: temperature, humidity, wind speed, sun angle and cloud cover (solar radiation). This differs from the heat index, which takes into consideration temperature and humidity and is calculated for shady areas. a particularly effective indicator of heat stress for active populations such as outdoor workers and athletes. Always check with local officials for appropriate actions and activity levels. Experienced heat stress will depend upon duration and intensity of activity and personal health and vulnerability.</i>			





NWS HeatRisk Forecast

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HeatRisk Today





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](#)
- [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](#)
- [Wet Bulb Globe Temperature and Heat Index Information](#)
- [Missouri Cooling Centers Map](#)
- [NWS Heat Safety](#)
- [NWS Heat Tools Reference Sheet](#)

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Heat Exhaustion	Heat Stroke
ACT FAST • Move to a cooler area • Loosen clothing • Sip cool water • Seek medical help if symptoms don't improve	ACT FAST CALL 911 • Move person to a cooler area • Loosen clothing and remove extra layers • Cool with water or ice
<i>Dizziness</i> <i>Thirst</i> <i>Heavy Sweating</i> <i>Nausea</i> <i>Weakness</i>	<i>Confusion</i> <i>Dizziness</i> <i>Becomes Unconscious</i>
<i>Heat exhaustion can lead to heat stroke.</i>	<i>Heat stroke can cause death or permanent disability if emergency treatment is not given.</i>
Stay Cool, Stay Hydrated, Stay Informed!	

SLIGHT RISK

Scattered severe storms possible.

Short-lived and not widespread -- isolated intense storms possible.

Plan ahead if you have outdoor plans and have a way to get NWS warnings.

weather.gov |

