Heat Advisory

July 22, 2025
3:57 AM

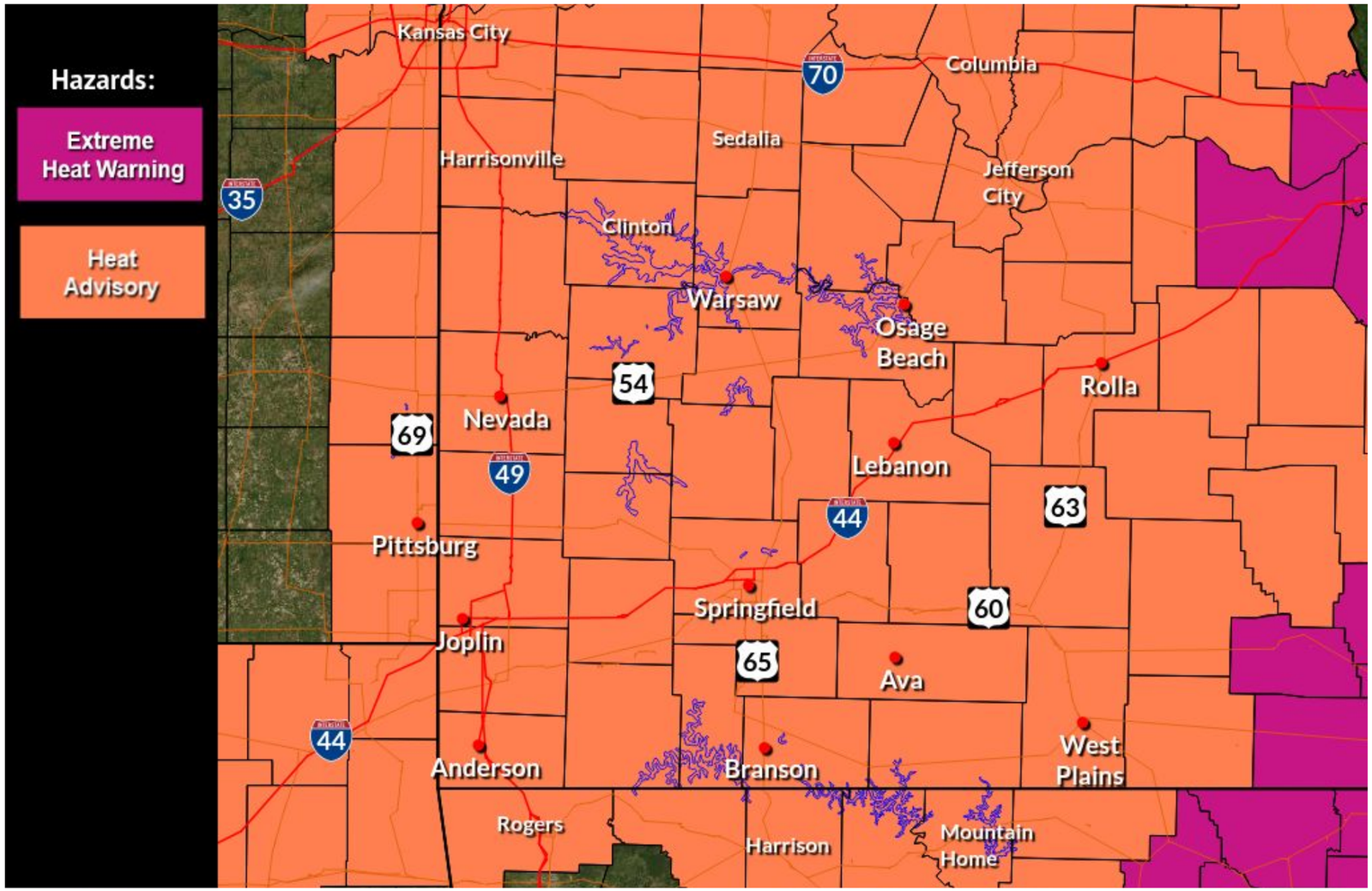
Today through Thursday

Key Messages

- Persistently hot and humid conditions will occur across the area this week.
- Daily afternoon highs in the mid to upper 90s will lead to heat index values generally between 100 to 105 degrees through at least Thursday.
- Warm overnight temperatures in the 70s each night to provide little relief from the heat.
- The Extreme Heat Warning has been replaced by a Heat Advisory areawide through Thursday.

Next Scheduled Briefing

- Tuesday afternoon by 5 PM

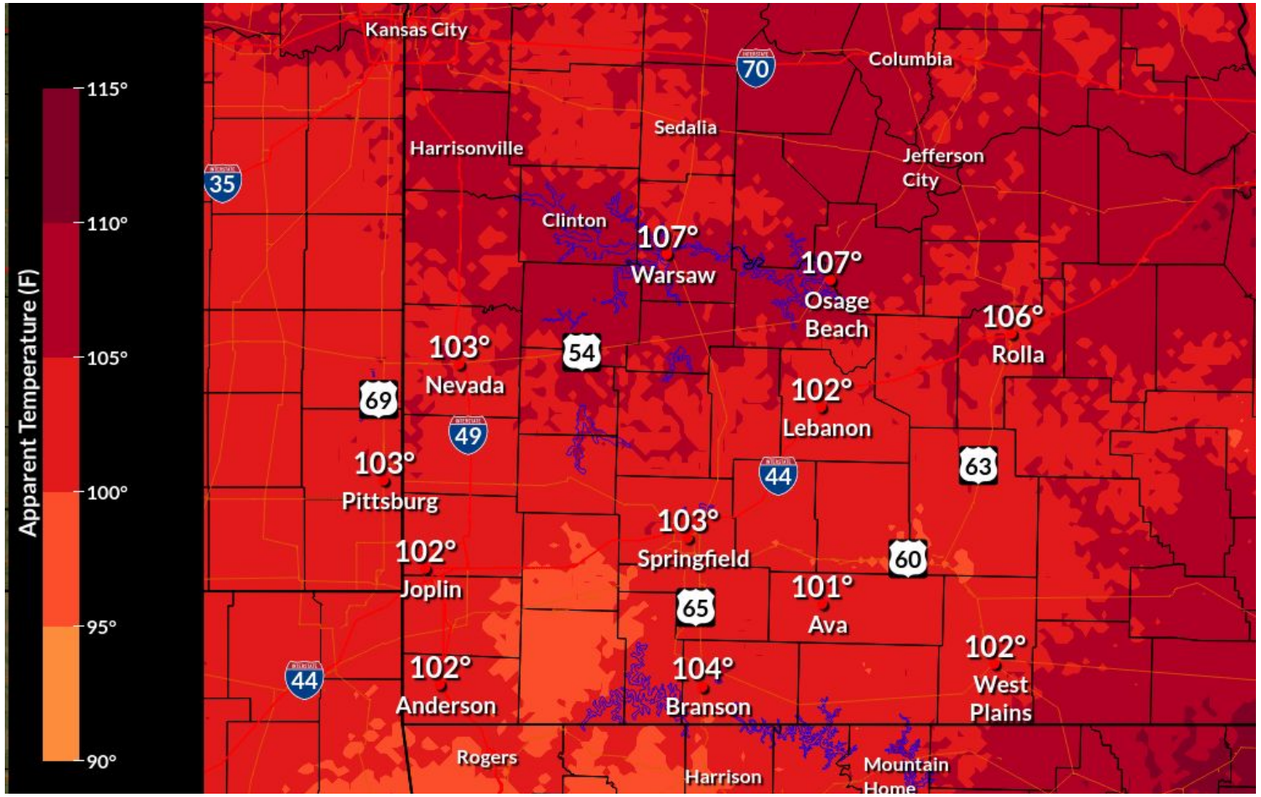


Heat Headlines

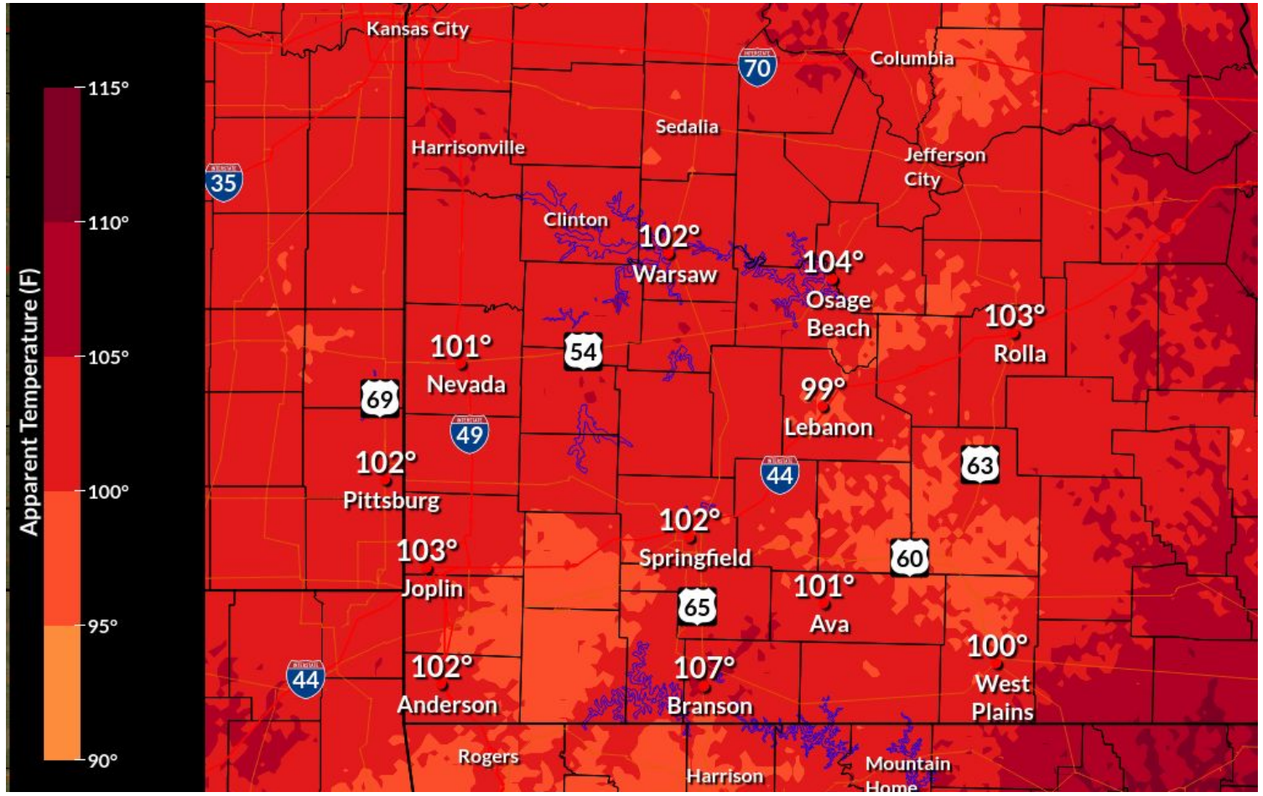
Maximum Heat Index

Today and Wednesday

July 22, 2025
3:57 AM



Maximum Heat Index Today



Maximum Heat Index Wednesday

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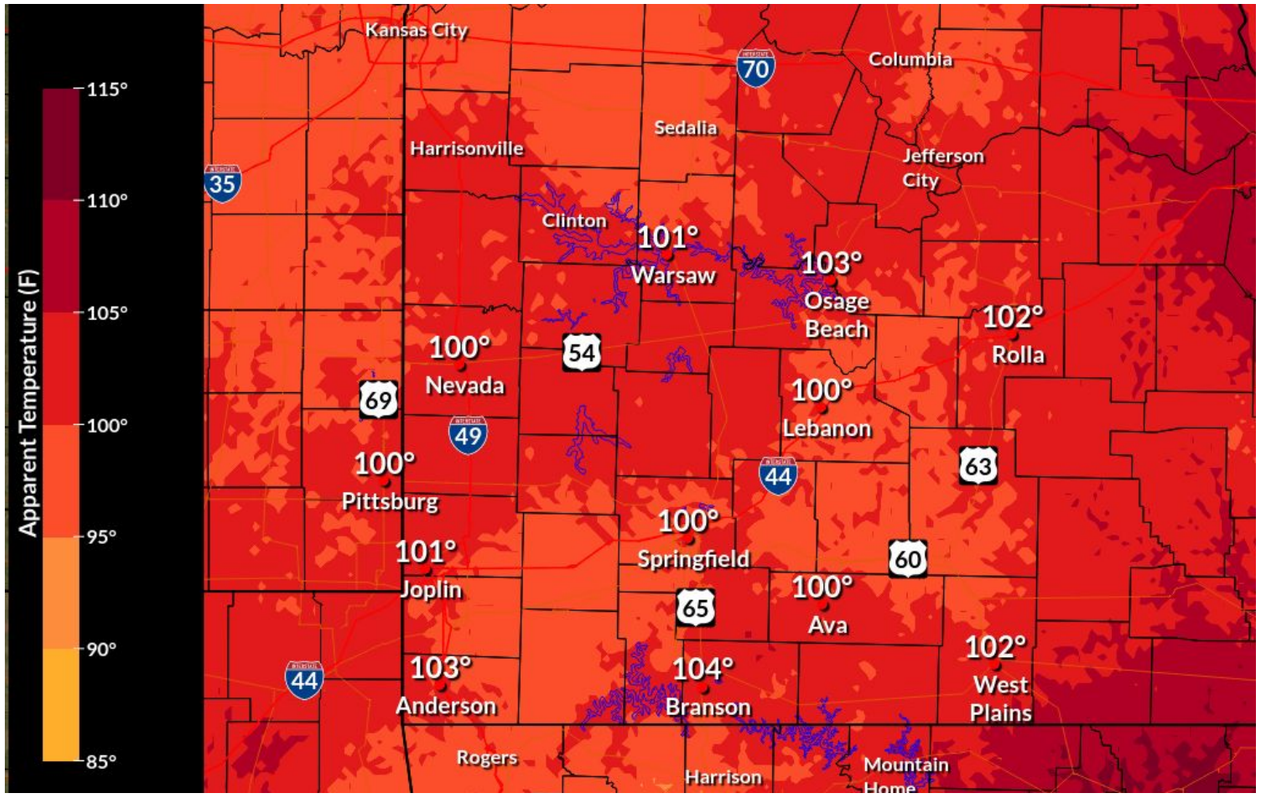
National Weather Service
Springfield, MO

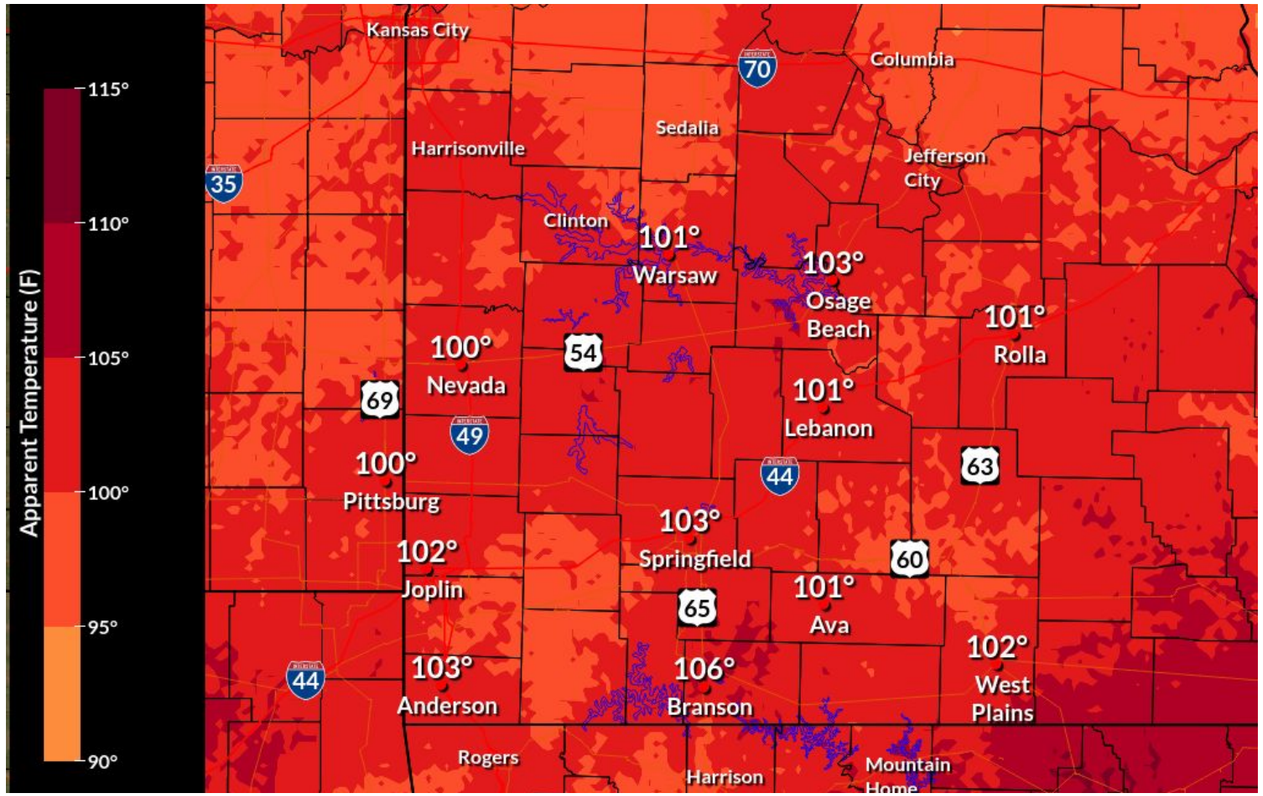
Maximum Heat Index

Thursday and Friday

July 22, 2025
3:57 AM



Maximum Heat Index Thursday



Maximum Heat Index Friday

National Oceanic and Atmospheric Administration
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Springfield, MO

Understanding Heat Index

July 22, 2025
3:57 AM

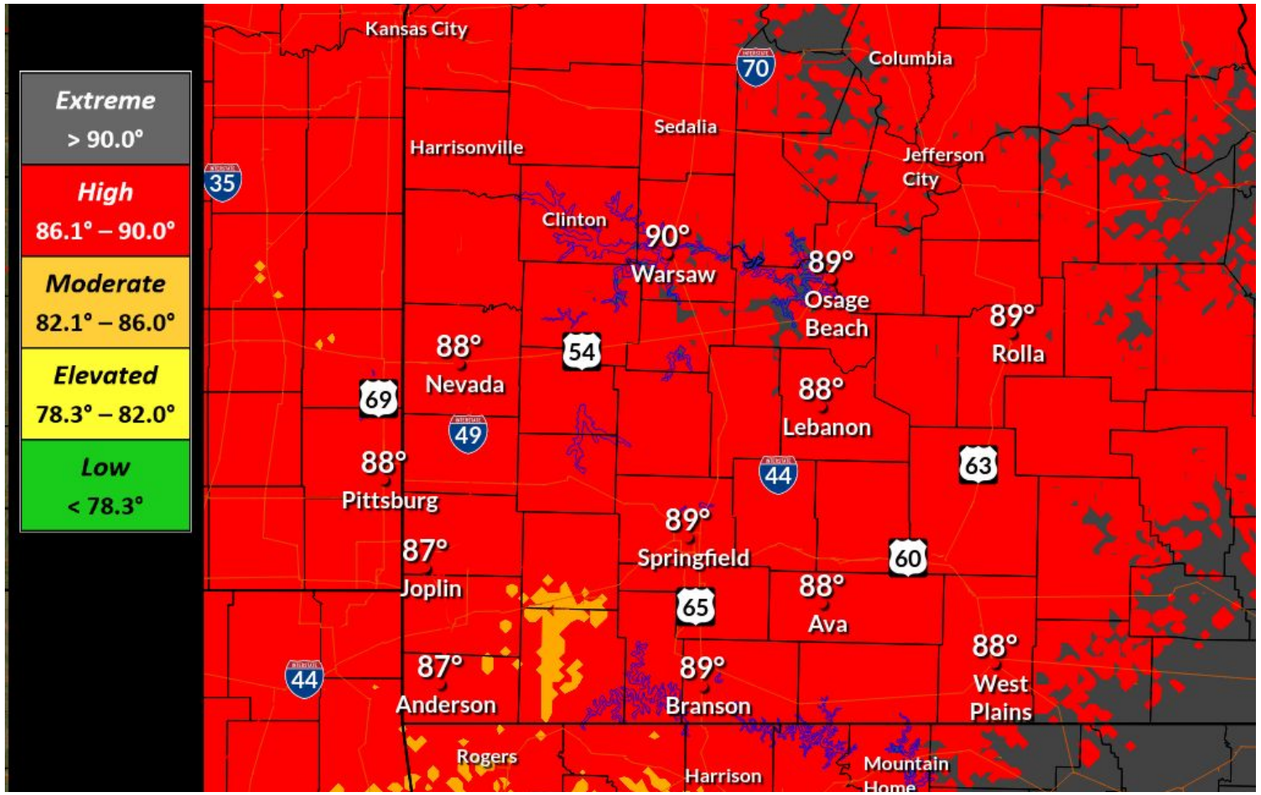
Heat Index		
Classification	**Heat Index (°F)**	**Effect on the Body**
Caution	80 to 89	Fatigue possible with prolonged exposure and/or physical activity.
Extreme Caution	90 to 102	Heat stroke, heat cramps or heat exhaustion possible with prolonged exposure and/or physical activity.
Danger	103 to 124	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.

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.

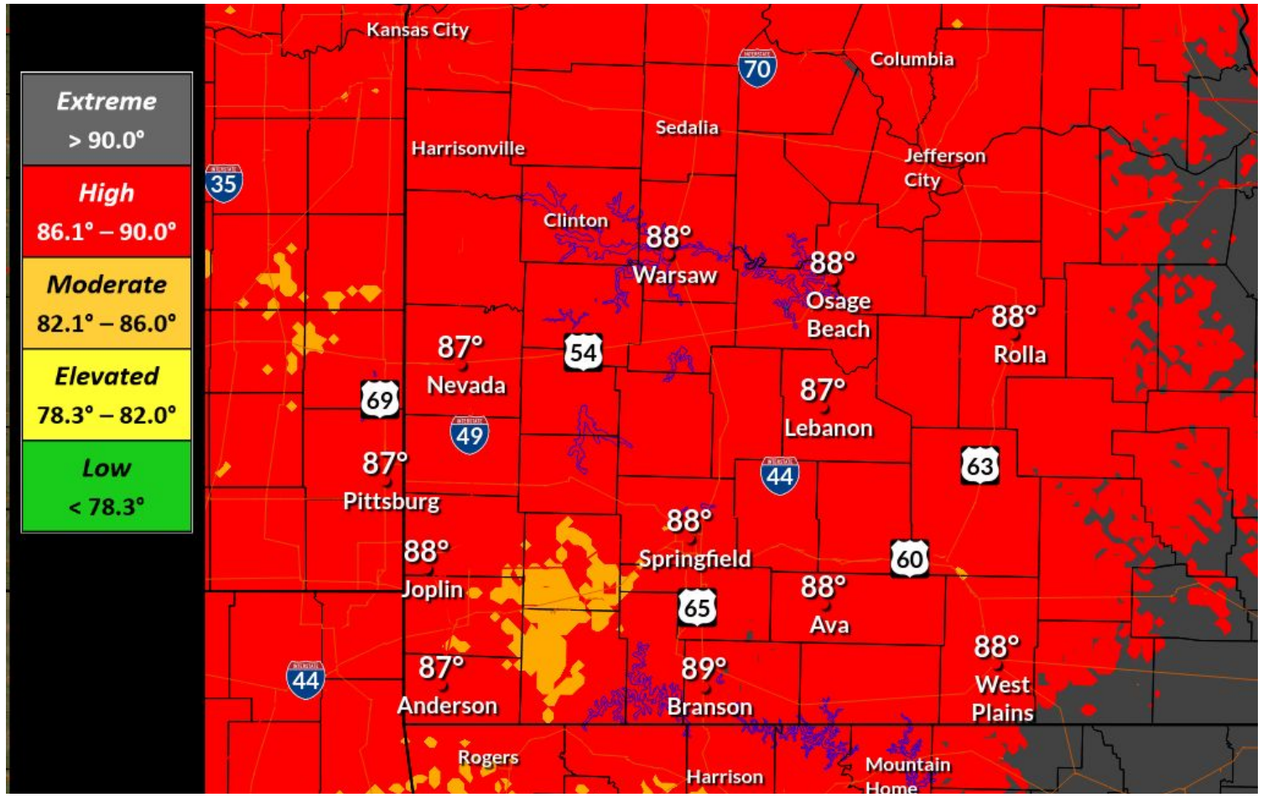
Wet Bulb Globe Temp Forecast

July 22, 2025
3:57 AM

Today and Wednesday



Wet Bulb Globe Temp Today



Wet Bulb Globe Temp Wednesday

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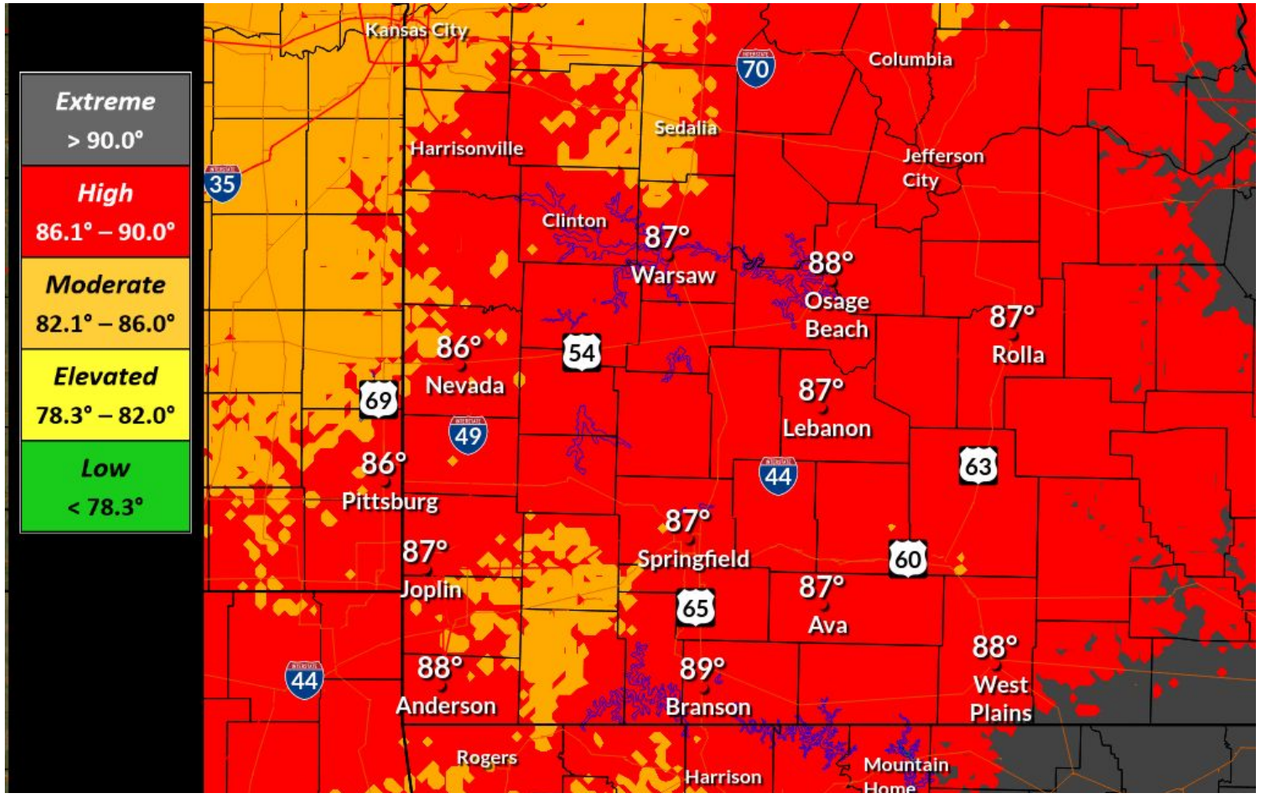
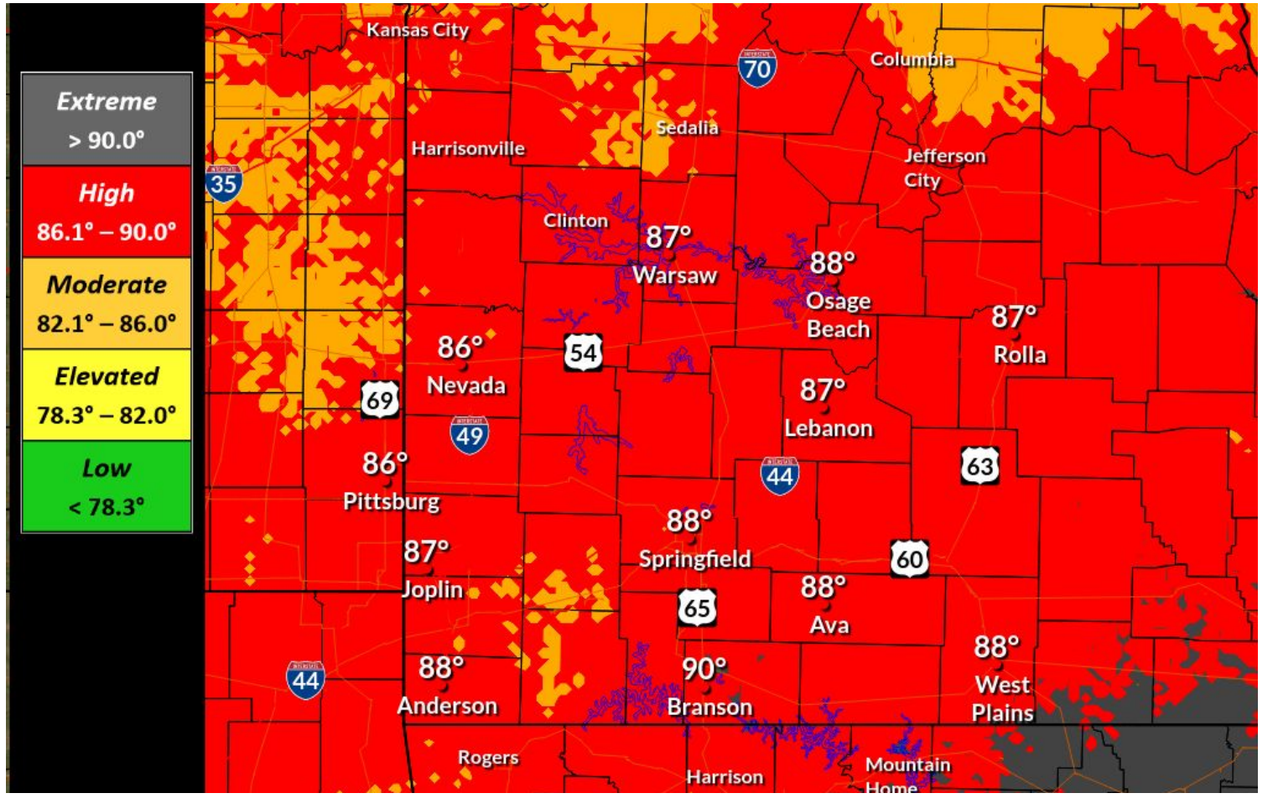
Wet Bulb Globe Temp Forecast

July 22, 2025
3:57 AM

Thursday and Friday



Wet Bulb Globe Temp Thursday



Wet Bulb Globe Temp Friday

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Understanding Wet Bulb Globe Temperatures

July 22, 2025
3:57 AM

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.

Wet Bulb Globe Temperature (WGBT) 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.

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HeatRisk Forecast

Today and Wednesday

July 22, 2025
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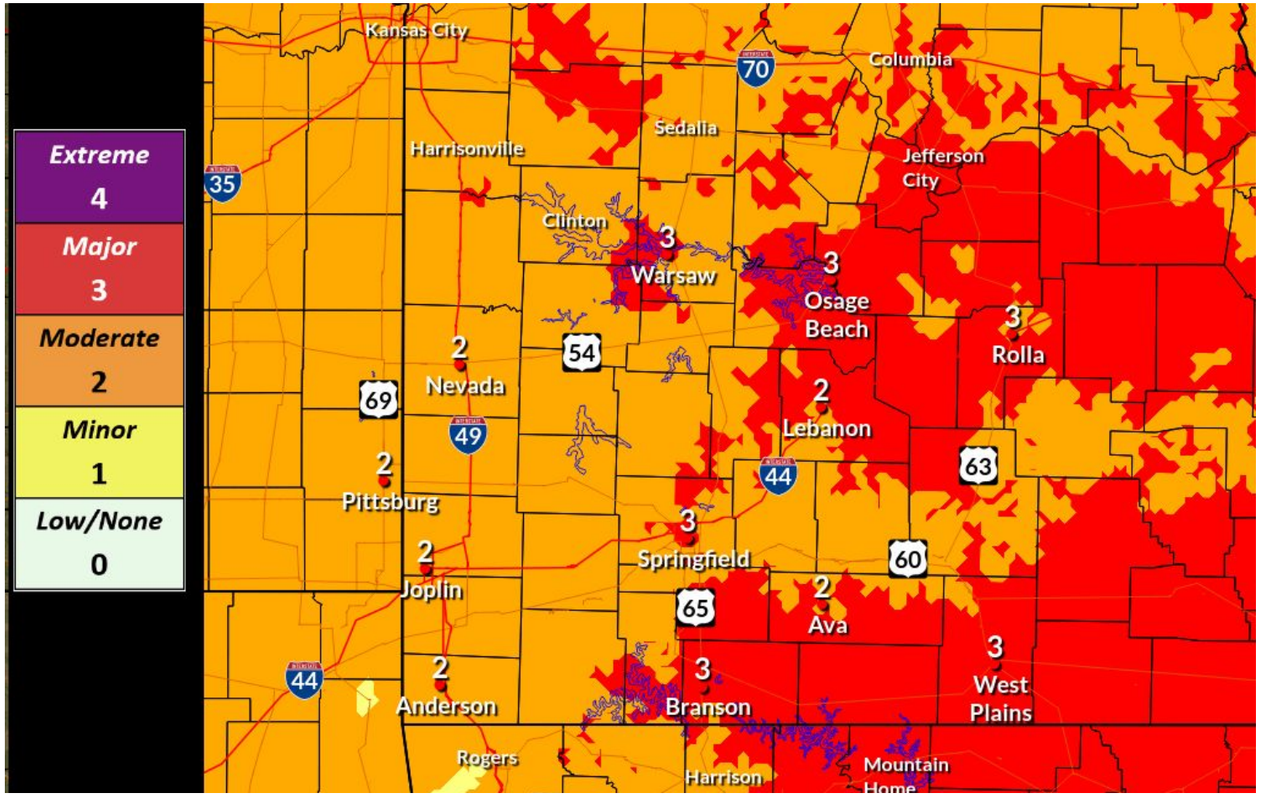
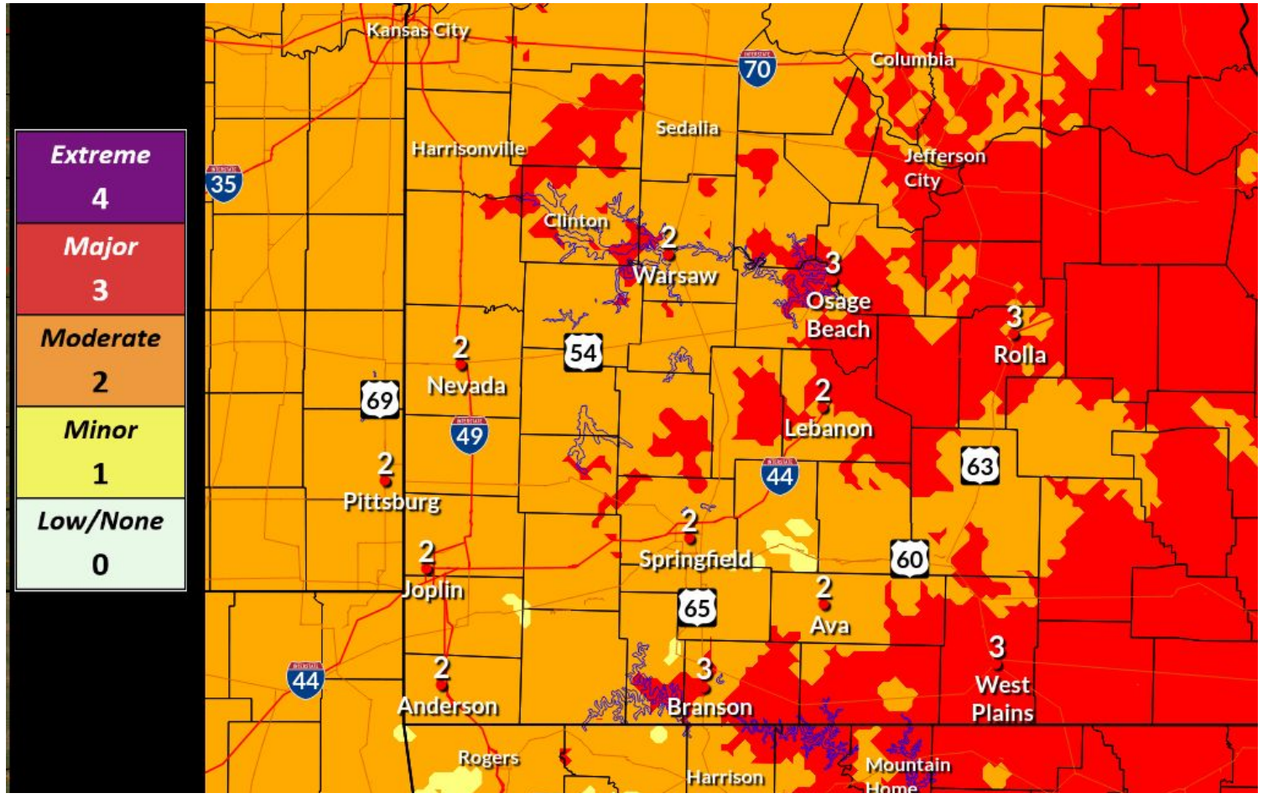


HeatRisk Today



HeatRisk Wednesday

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HeatRisk Forecast

Thursday and Friday

July 22, 2025
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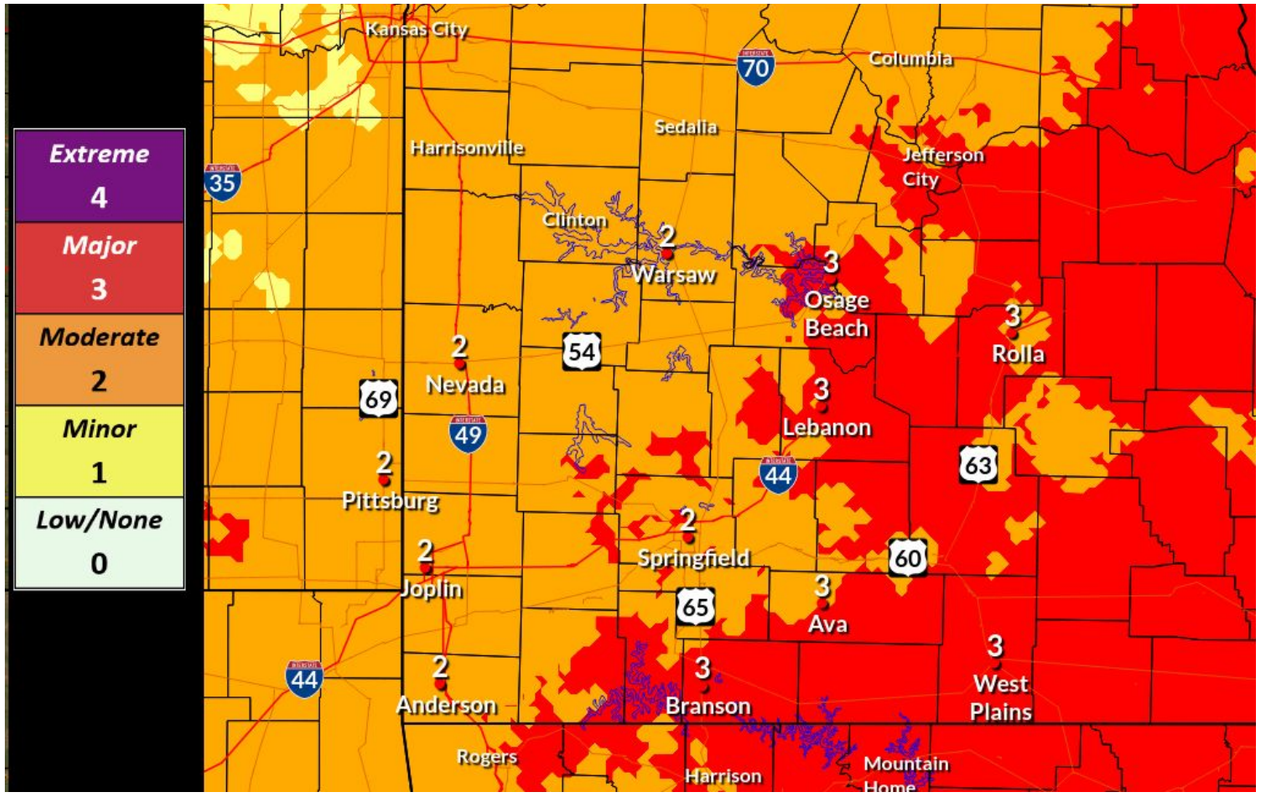
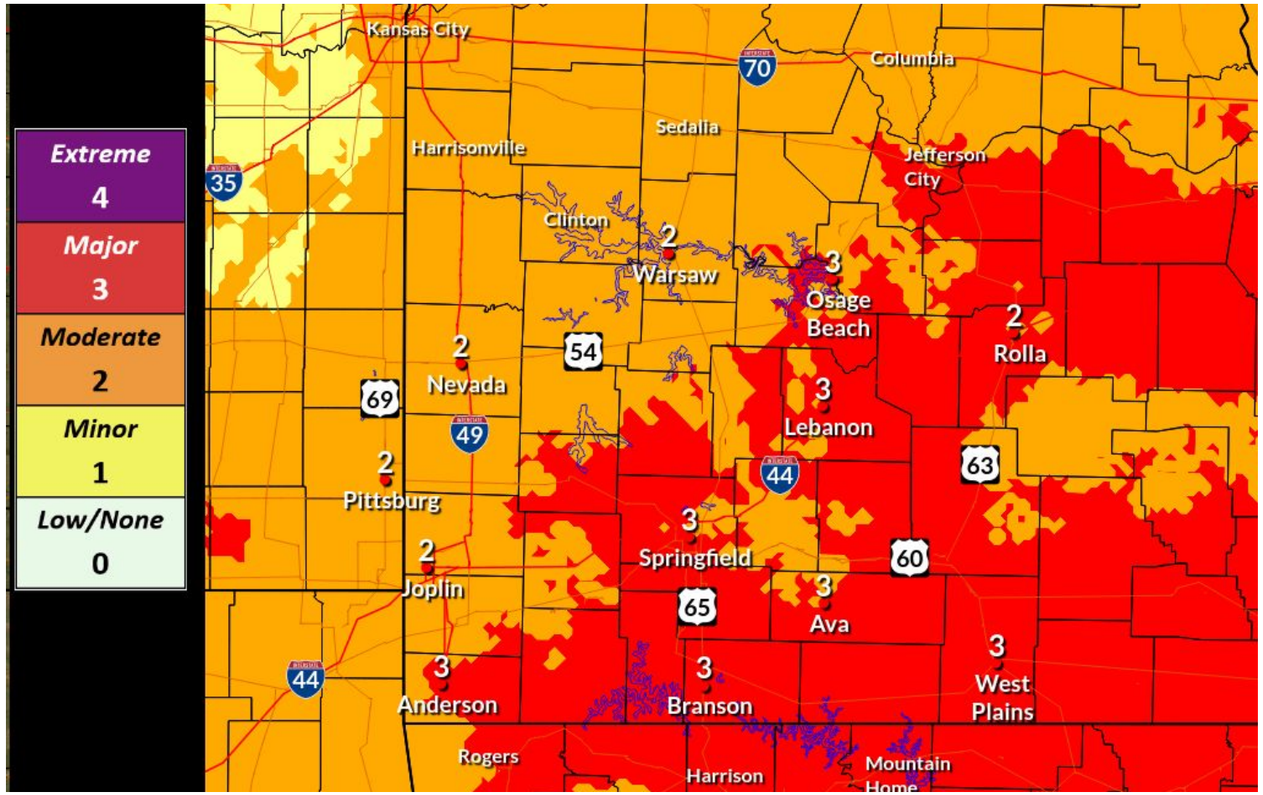


HeatRisk Thursday



HeatRisk Friday

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National Weather Service
Springfield, MO

Understanding NWS HeatRisk

July 22, 2025
3:57 AM

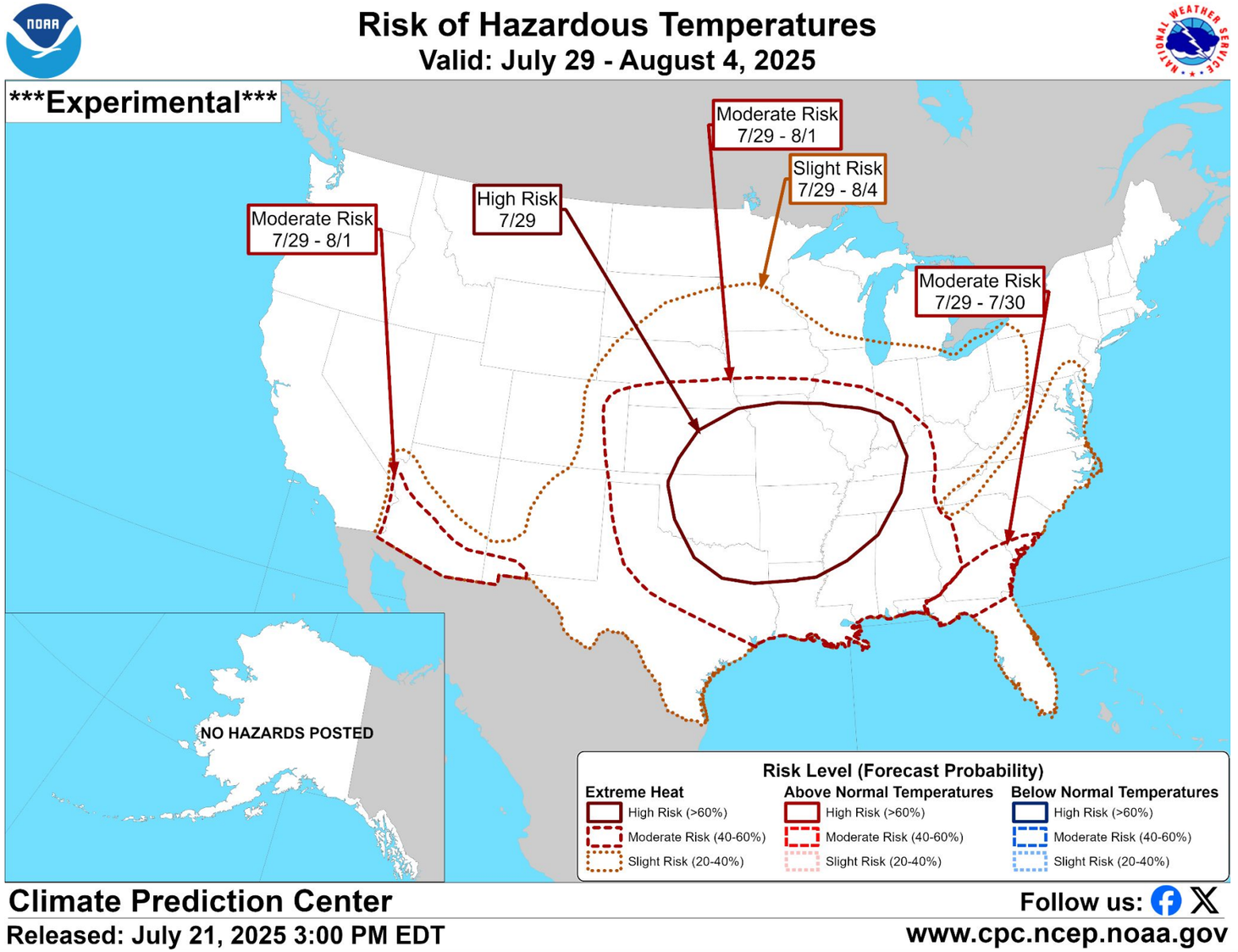
NWS HeatRisk		
Category		**Risk of Heat-Related Impacts**
0	Low/None	Little to no risk from expected heat.
1	Minor	Primarily affects individuals extremely sensitive to heat, especially when outdoors without effective cooling and/or adequate hydration.
2	Moderate	Affects most individuals sensitive to 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.

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.

CPC Days 8-14 Risk of Hazardous Temps

July 22, 2025
3:57 AM

- There is potential for Heat Headlines (Advisory/Warning) to persist after Thursday and into the weekend.
- The Climate Prediction Center is highlighting a High risk for extreme heat towards the end of July into the beginning of August.



CPC Days 6-10 Day Heat Index Probabilities

July 22, 2025
3:57 AM

Probability of Exceedance of Heat Index Values for July 27th through July 31st

	% Chance >100 F	% Chance >105 F	% Chance >110 F	% Chance >115 F
Springfield	74	30	8	2
Joplin	81	48	14	5

- These probabilities can be attributed to the chance of Heat Headlines (Advisory/Warning) being met for **at least one** of the days between July 27th and July 31st, though the pattern signals potentially multiple days to reach these criteria.
- While the exact forecast and probabilities will change between now and then, this can give you the confidence level in the degree of heat expected in the extended range (6-10 days out).
- While these are the only two forecast points provided by the CPC, these numbers can be reasonably compared to other cities in the forecast area.

Additional Resources

July 22, 2025
3:57 AM

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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