Extreme Heat Warning and Advisory

August 9, 2026
2:45 PM

Through Wednesday

Key Messages

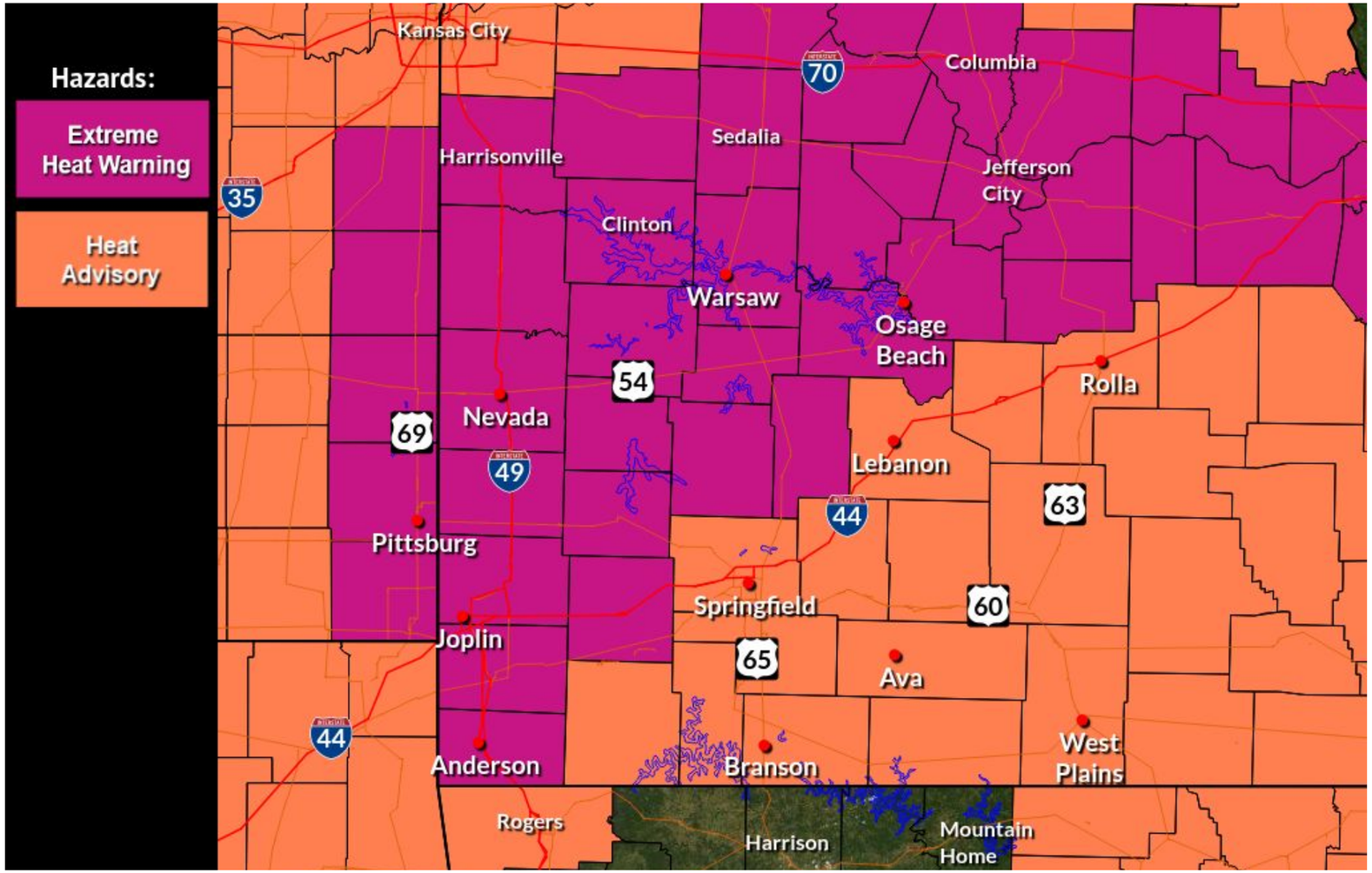
- Extreme Heat Warning along a corridor roughly from Joplin to the Lake of the Ozarks Region with daily Heat Index values around 105° to 108°.
- Heat Advisory for locations further south and east with daily heat indices around 100° to 104°.

NEW Important Updates

- Updated Heat Index, Heat Risk, and Wet Bulb Globe Maps Monday through Wednesday.

Next Scheduled Briefing

- Monday afternoon or as needed.



Heat Headlines

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

National Weather Service
Springfield, MO

Heat Index Confidence

August 9, 2026
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Forecast Confidence Levels

Heat Index > 90

Low	Medium	High

Heat Index > 100

Low	Medium	High

Heat Index > 110

Low	Medium	High

Confidence Details

- ➔ Confidence is high in an extended period of Heat Index values over 100 degrees.
- ➔ Confidence is low that heat index values will reach or exceed 110 degrees.
- ➔ Highest Heat Index values are expected just off of the Ozark Plateau (corridor from Joplin to the Lake of the Ozarks).
- ➔ There could be a separate corridor of higher Heat Index values around the Branson area, however confidence remains low.

Heat Index Monday and Tuesday

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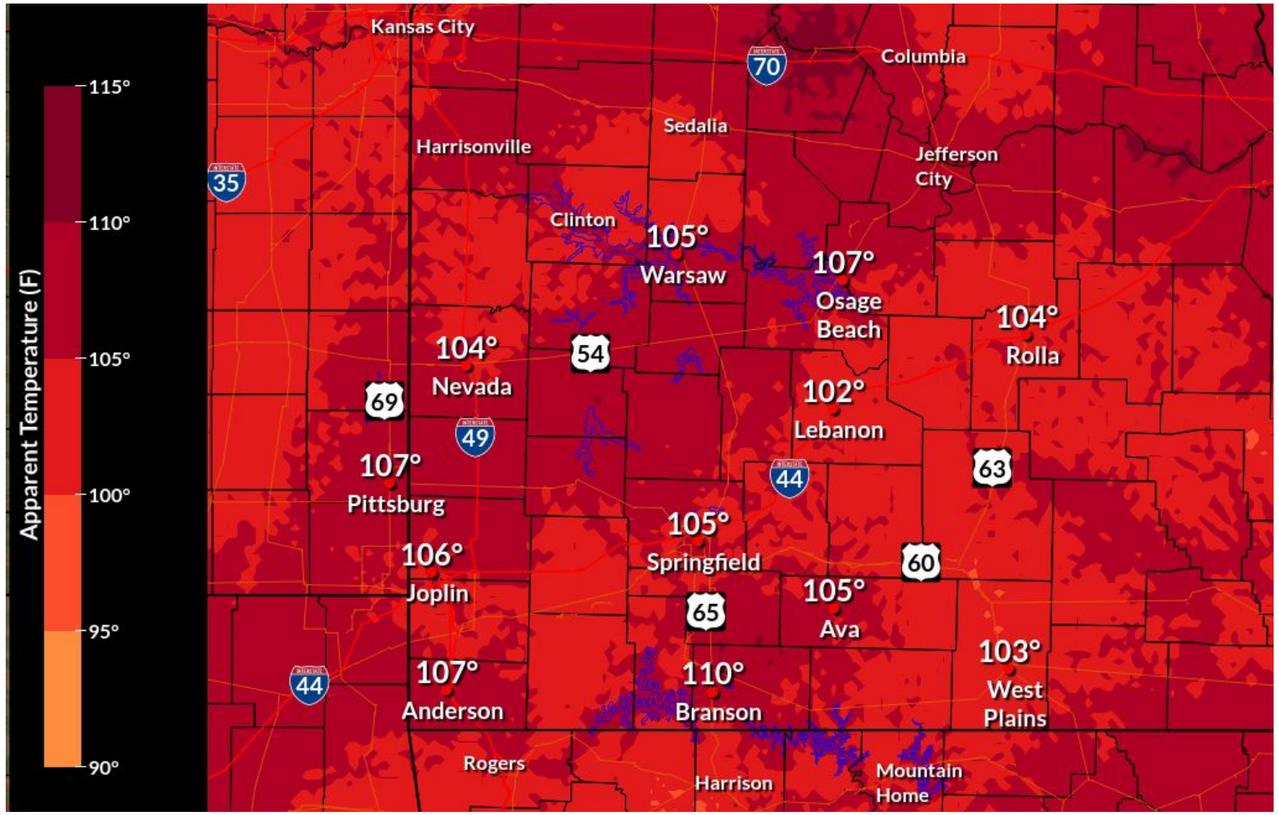
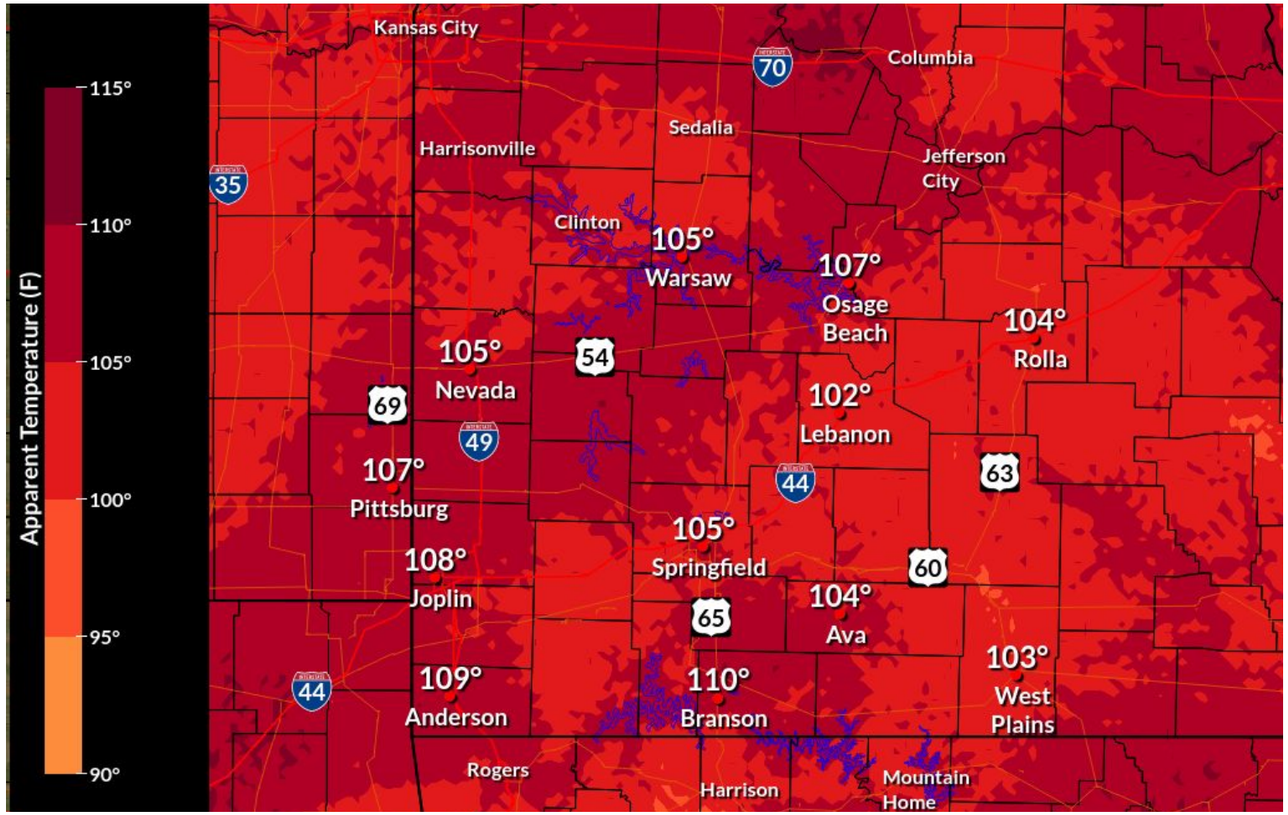


Heat Index Monday



Heat Index Tuesday

Heat Index Wednesday

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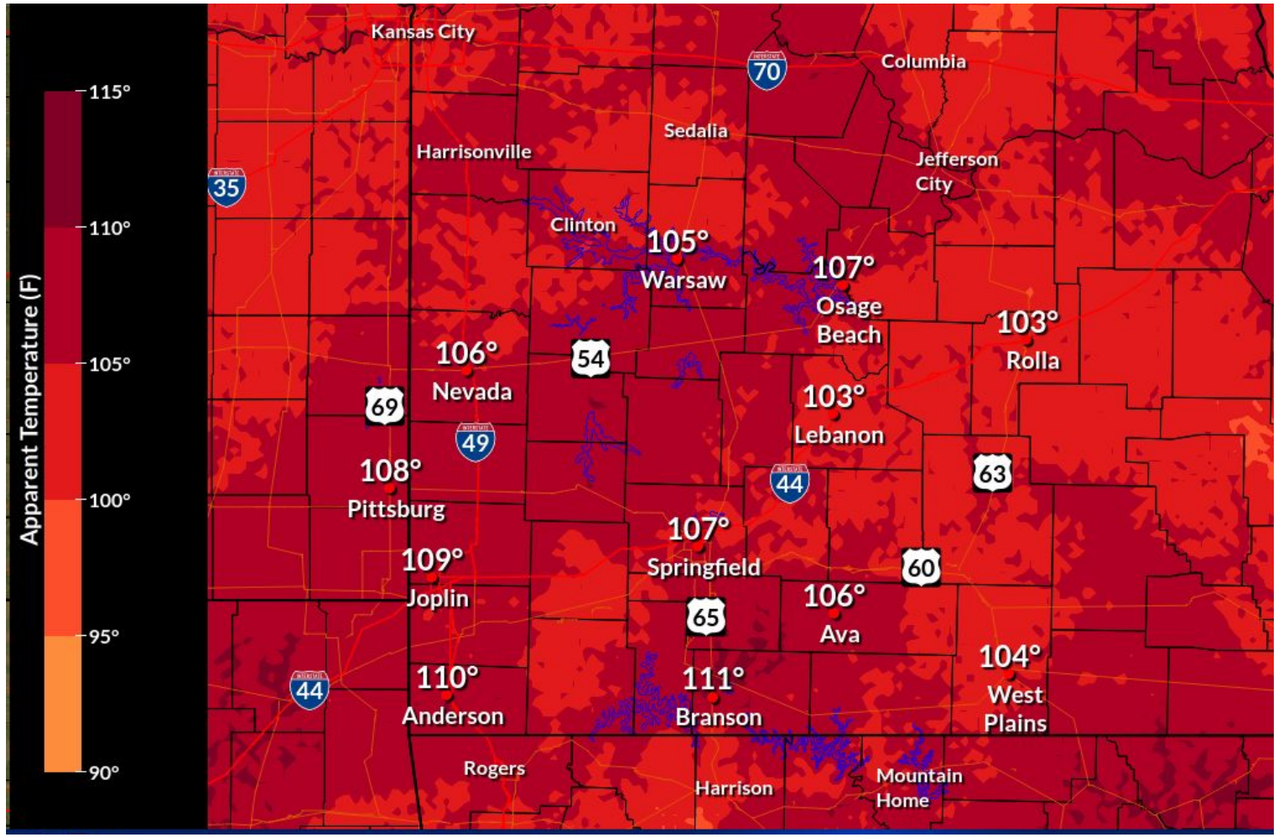

Heat Index Wednesday

Understanding Heat Index

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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 Temperature Forecast

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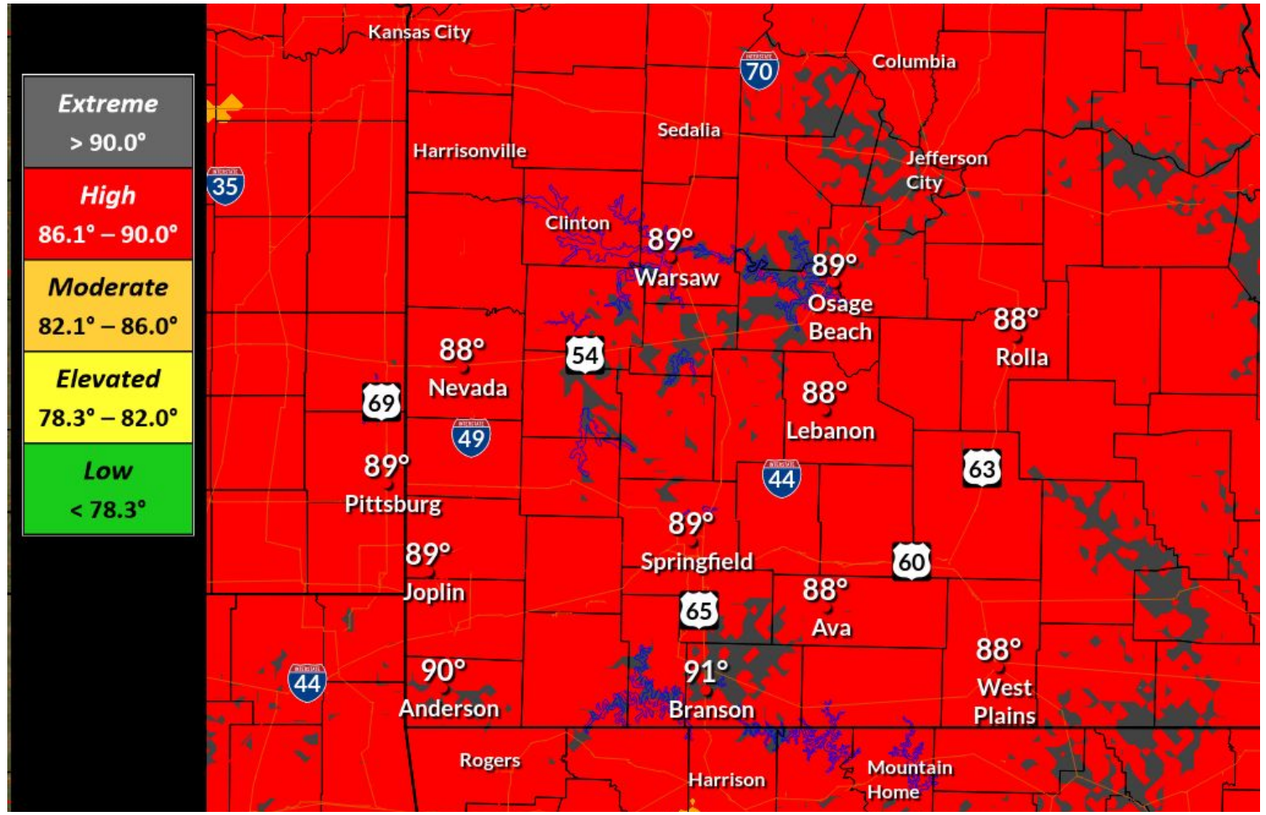
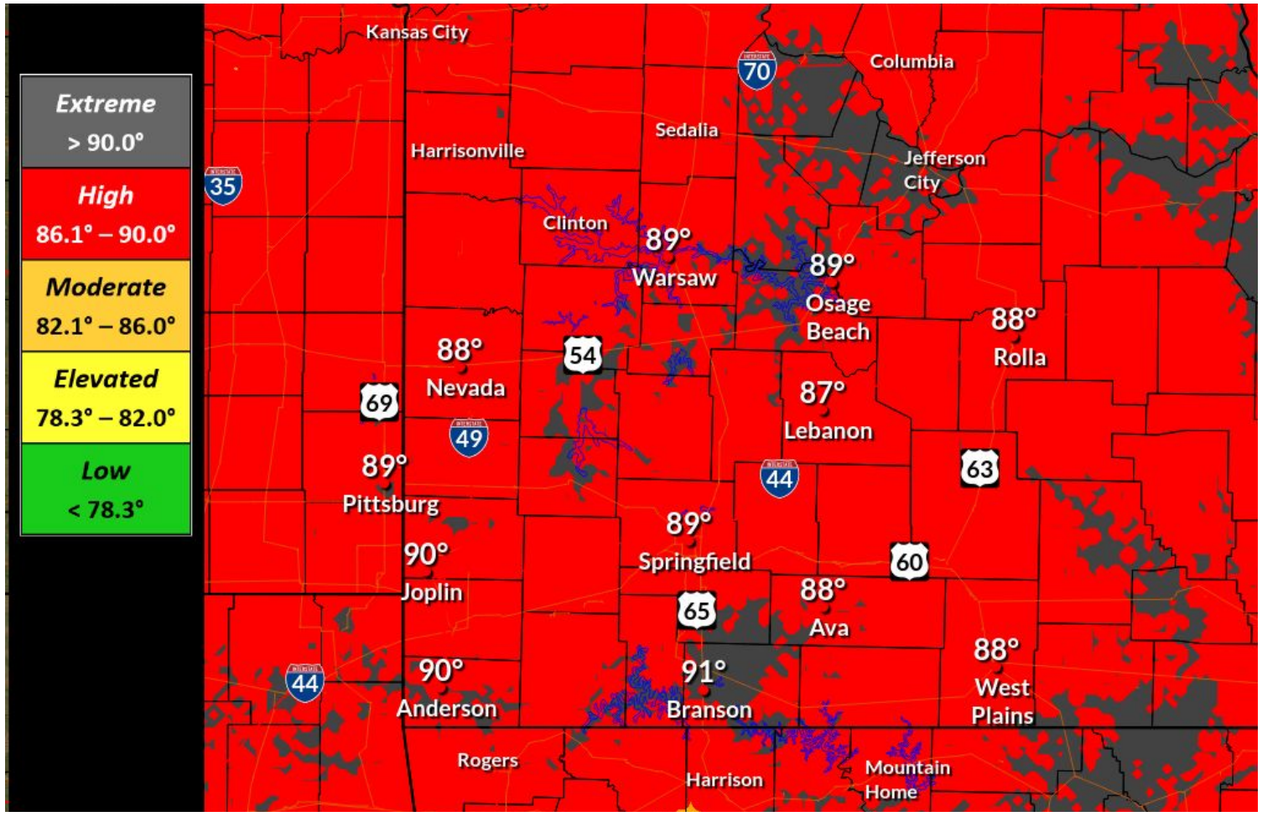
2:45 PM



Maximum WBGT Monday



Maximum WBGT Tuesday

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Wet Bulb Globe Temperature Forecast

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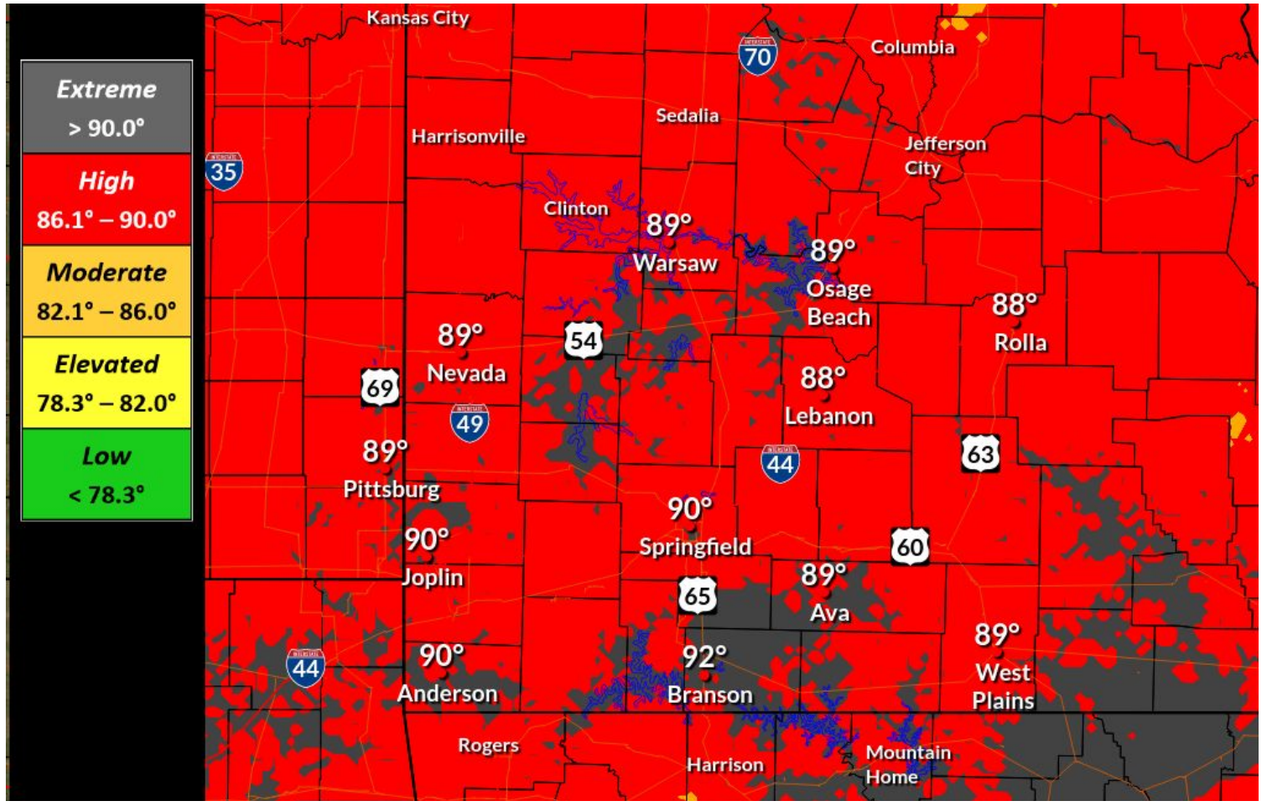

Maximum WBGT Wednesday

Understanding Wet Bulb Globe Temperatures

August 9, 2026
2:45 PM

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.

NWS HeatRisk Forecast

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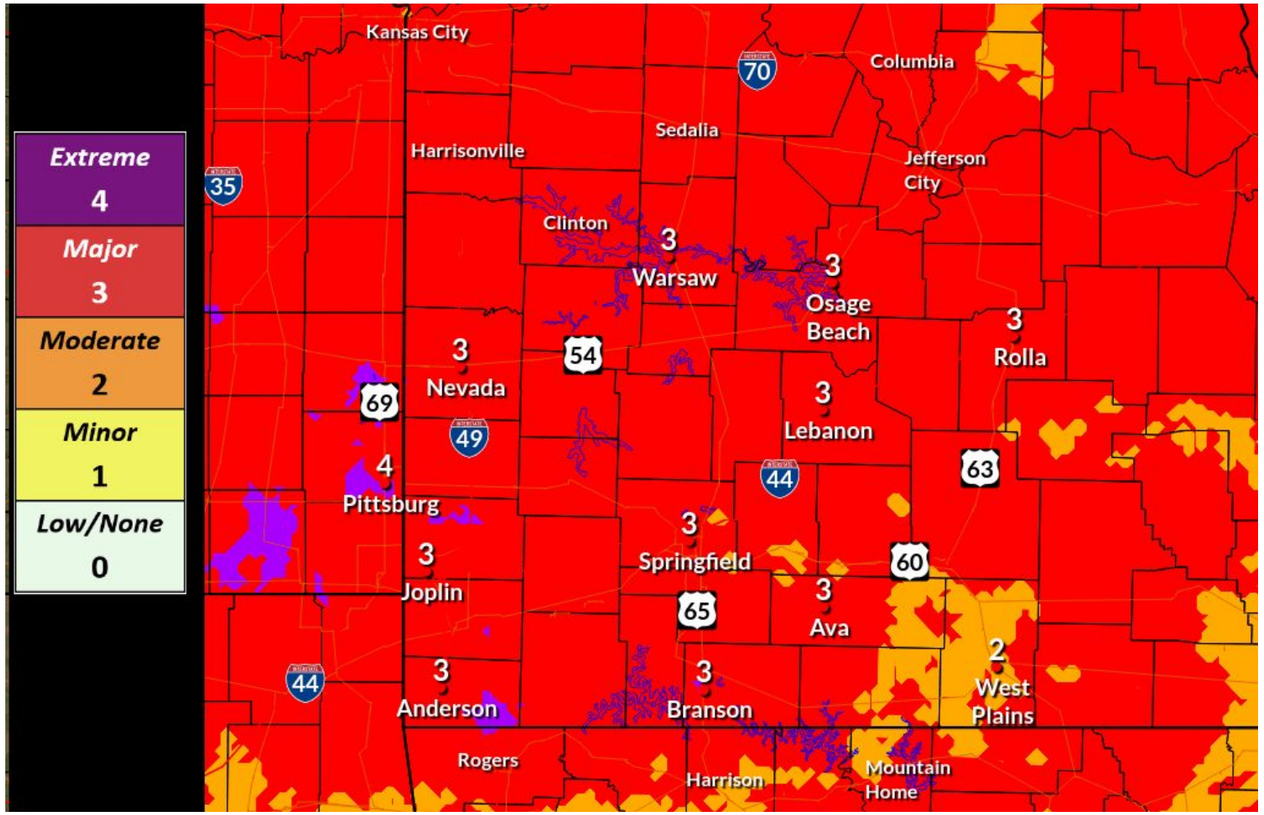
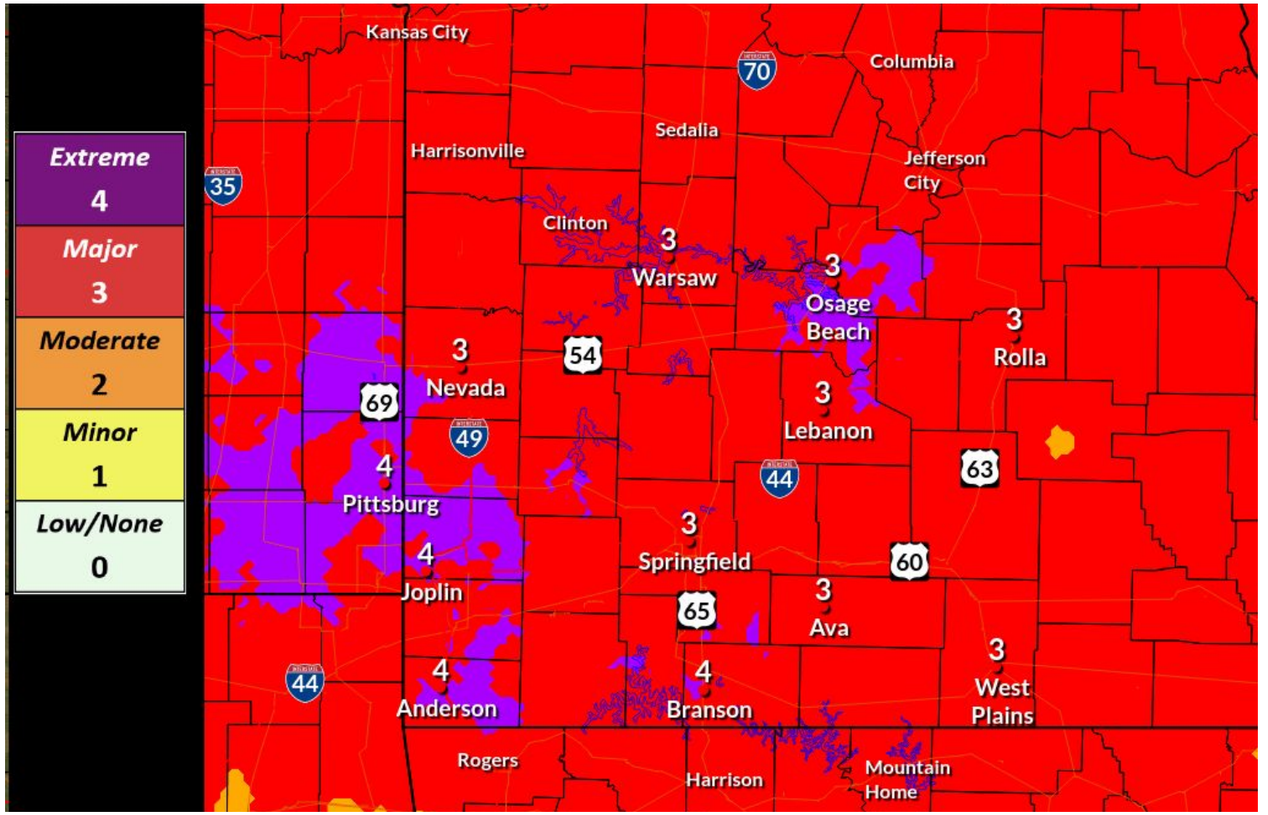


HeatRisk Monday



HeatRisk Tuesday

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NWS HeatRisk Forecast

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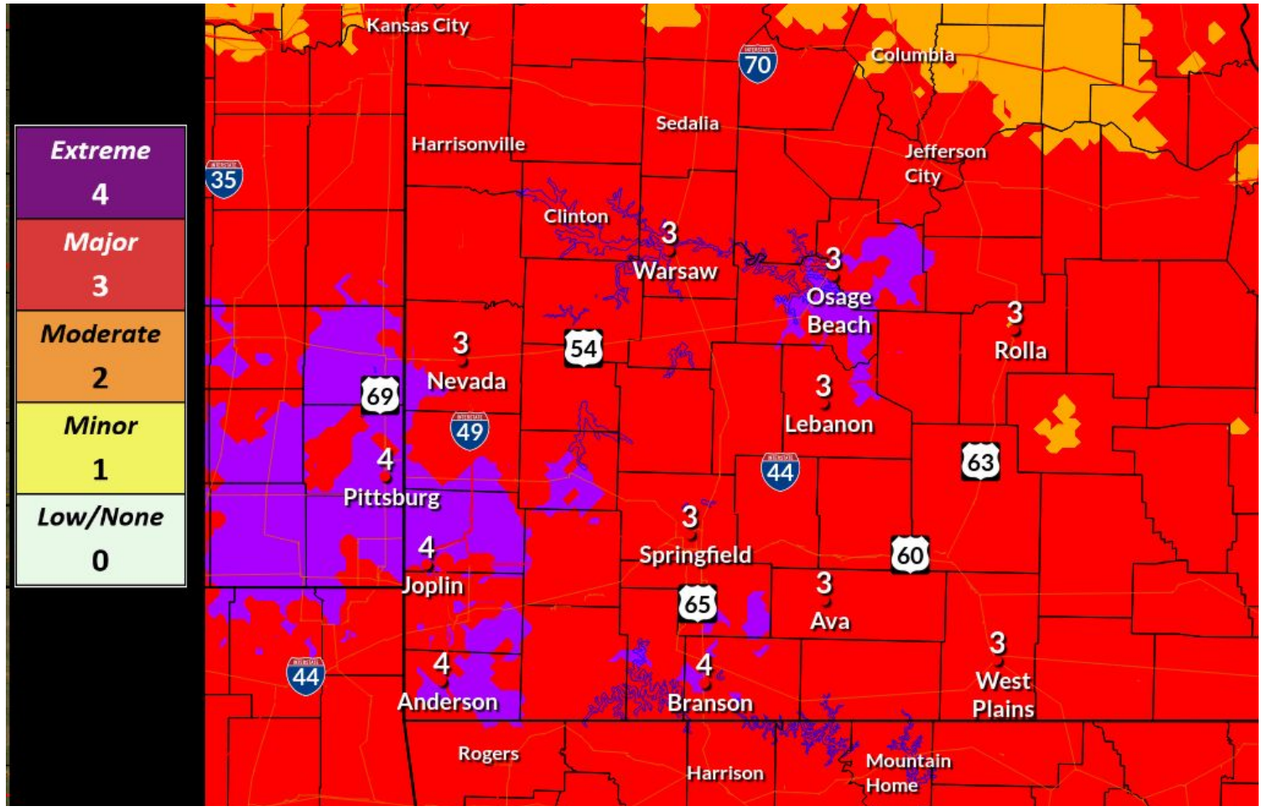

HeatRisk Wednesday

Understanding NWS HeatRisk

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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 Temperatures August 17–23

August 9, 2026
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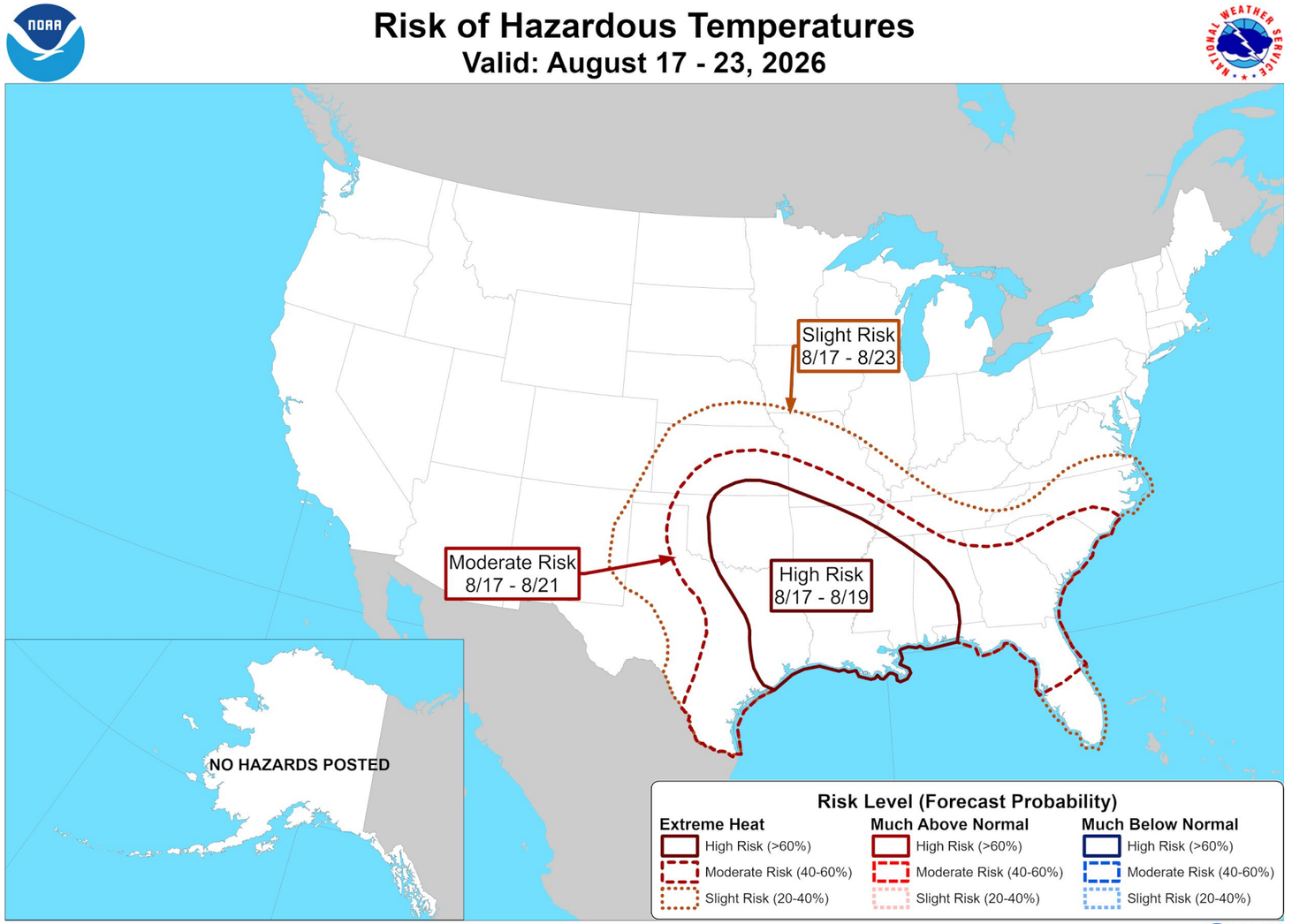
Overview

- There is a signal for Extreme Heat to continue across southwest Missouri into mid August.
- Higher risk for Extreme Heat exists just south of the region.



Climate Prediction Center

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Springfield, MO

Additional Resources

August 9, 2026
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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
- ➔ 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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