



Excessive Heat Early This Week

July 15, 2024
5:49 AM

Today into Tuesday

Key Messages

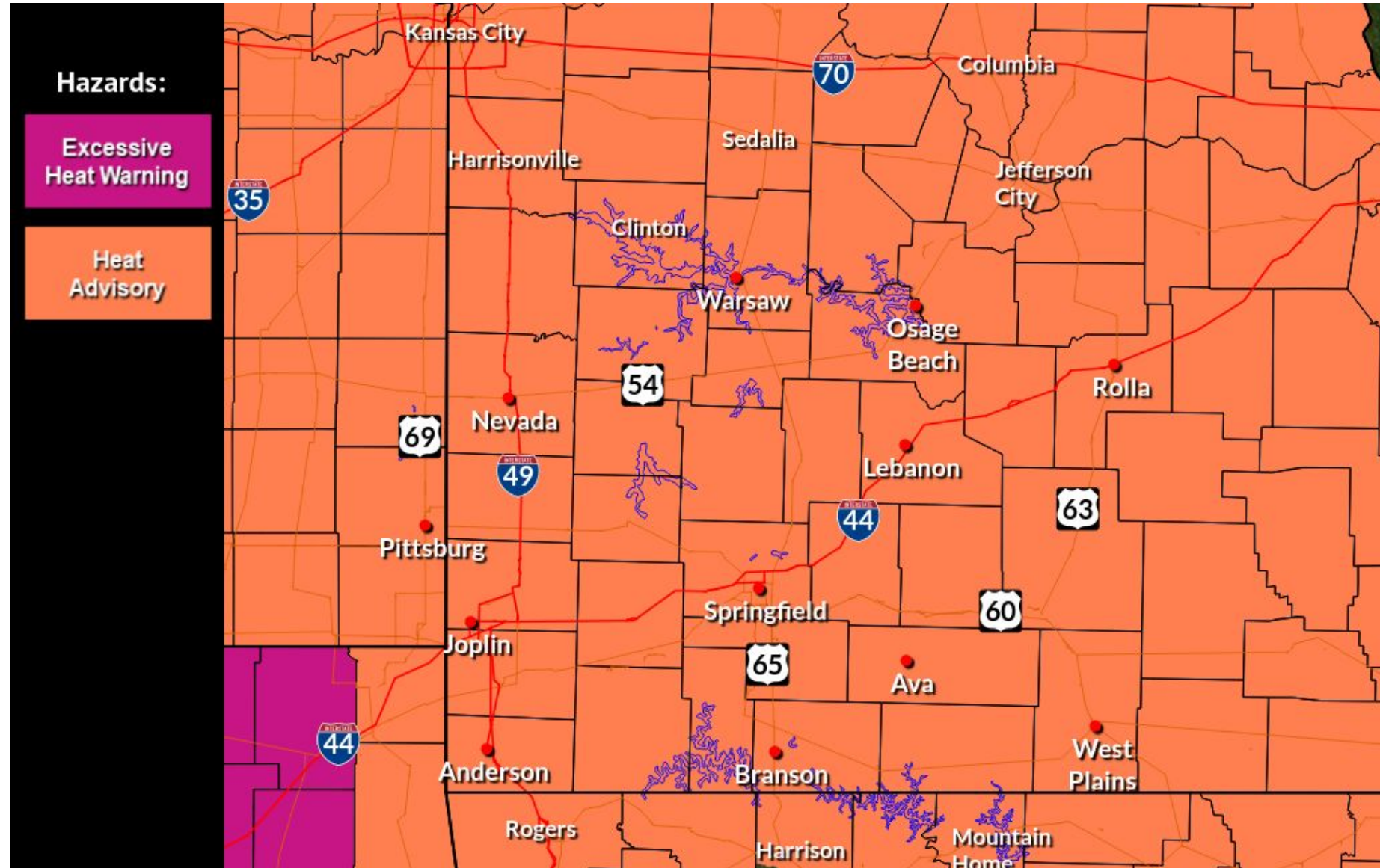
- Sustained hot temperatures and humid conditions will result in excessive heat early this week.
- Afternoon heat index values of 100-109° F are forecast today into Tuesday.
- Overnight temperatures in the 70s.
- Strong to severe storms and heavy rainfall Tuesday evening into Tuesday night.

NEW Important Updates

- Heat Advisory extended into Tuesday for much of the area

Next Scheduled Briefing

- Monday afternoon



Heat Advisory Monday Into Tuesday



Temperature Forecast

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	7/15 Mon			7/16 Tue				7/17 Wed				Maximum
	6am	12pm	6pm	12am	6am	12pm	6pm	12am	6am	12pm	6pm	
Branson	91	99	98	81	90	100	98	81	81	87	85	100
Fort Leonard Wood	87	96	94	80	87	94	91	76	76	80	79	96
Joplin	90	100	98	87	91	98	95	83	81	85	84	100
Lebanon	87	96	94	81	86	93	90	77	75	80	79	96
Osage Beach	89	98	97	83	88	93	91	78	77	81	81	98
Pittsburg, KS	89	99	98	86	90	97	94	81	78	82	81	99
Rolla	87	96	94	81	86	92	91	76	75	80	79	96
Springfield	87	97	95	81	88	95	93	78	78	82	80	97
West Plains	88	94	95	79	88	96	94	79	80	84	83	96

Created: 5 am CDT Mon 7/15/2024 | Values are maximums over the period beginning at the time shown.





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.

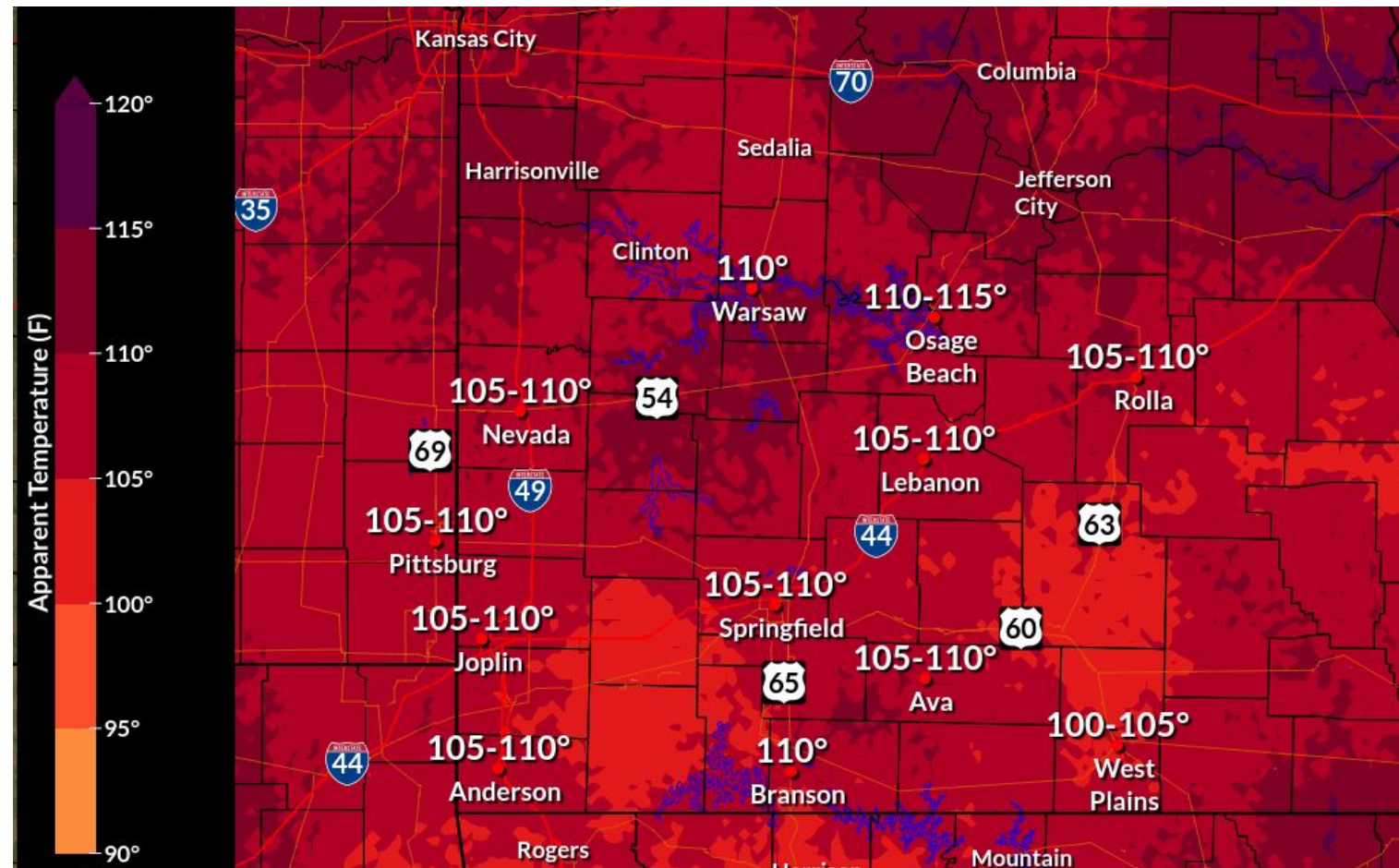
Heat Index is the most commonly used and understood heat tool by the general public. The higher the values the hotter it's going to feel and the higher the threat for heat related illnesses. It's calculated from the temperature and relative humidity. Heat Index assumes you are in the shade. The Heat 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.



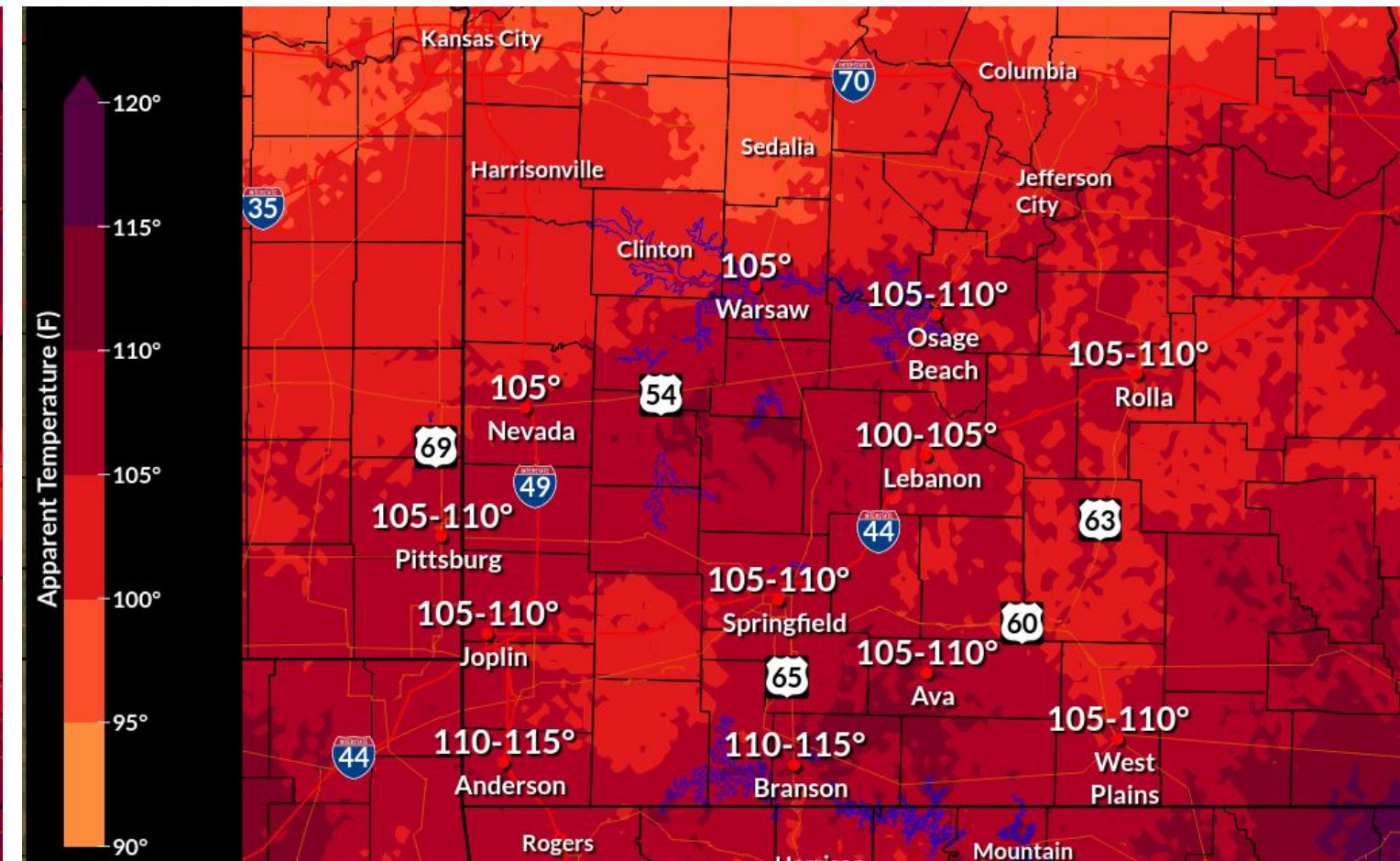


Heat Index Monday & Tuesday

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Heat Index Monday



Heat Index Tuesday



Understanding Wet Bulb Globe Temperatures

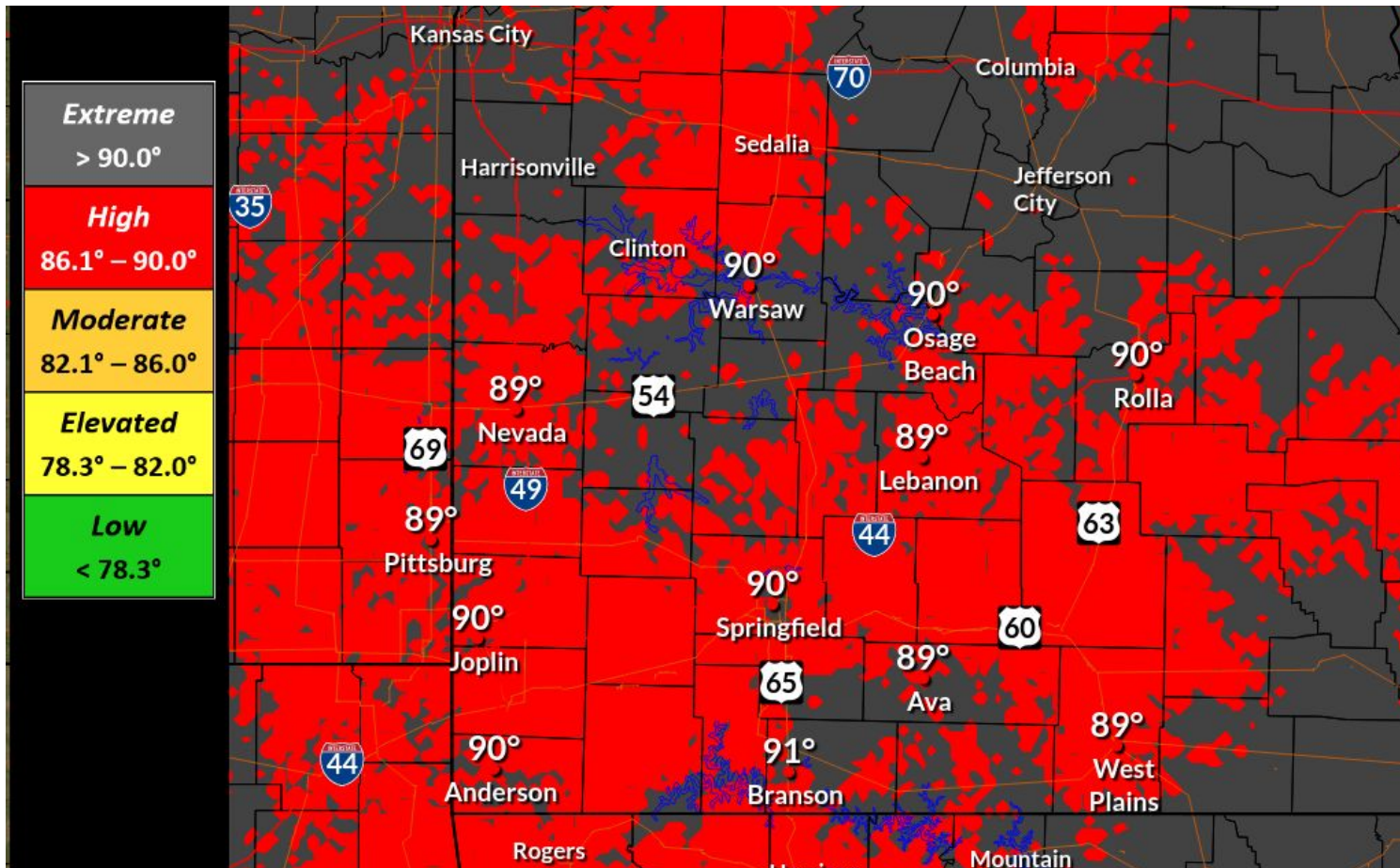
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Wet Bulb Globe Temperature (WBGT)			
Threat Level	WBGT (°F)	Effects	Call to Actions
Low	< 78.3	Normal activities.	Take at least 3-5 minutes of breaks each hour if working or exercising in direct sunlight.
Elevated	78.3 – 82.0	Working or exercising 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.
<p><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></p>			

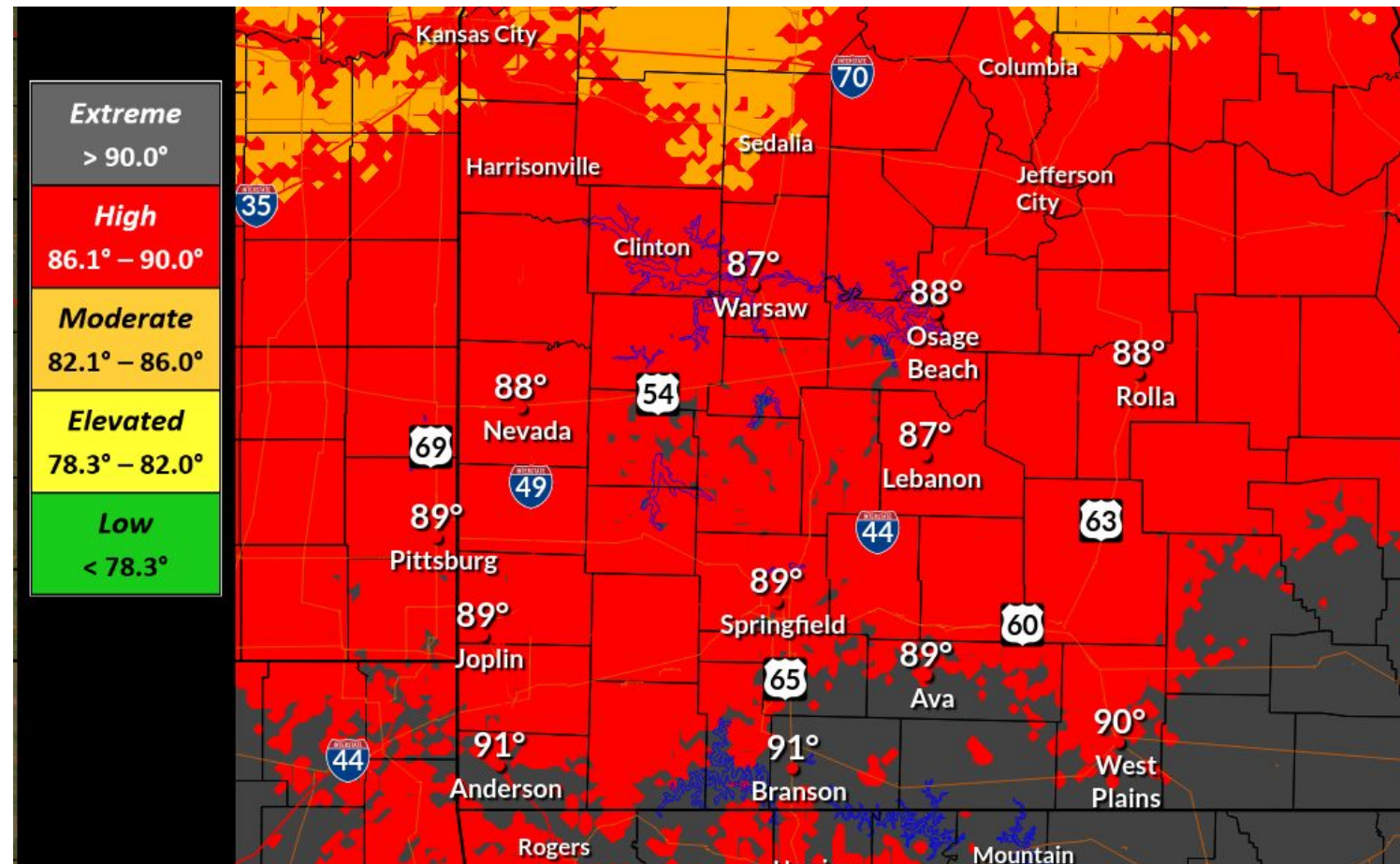


WBGT Monday & Tuesday

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Maximum WBGT Monday



Maximum WBGT Tuesday



Understanding NWS HeatRisk

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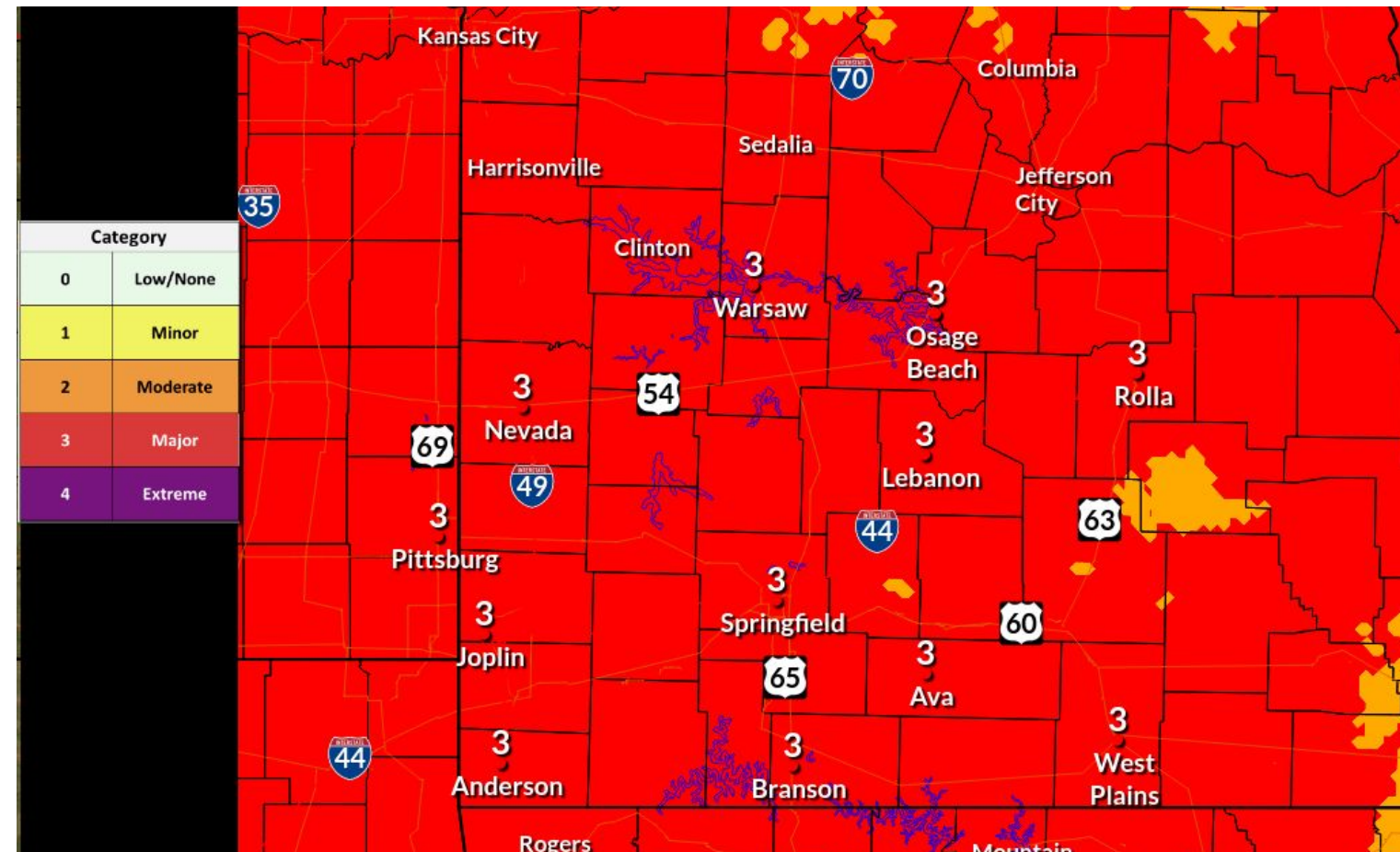
NWS HeatRisk		
Category		Risk of Heat-Related Impacts
0	Low/None	Little to no risk from expected heat.
1	Minor	Primarily affects individuals extremely sensitive to heat, especially when outdoors without effective cooling and/or adequate hydration.
2	Moderate	Affects most individuals sensitive to heat,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

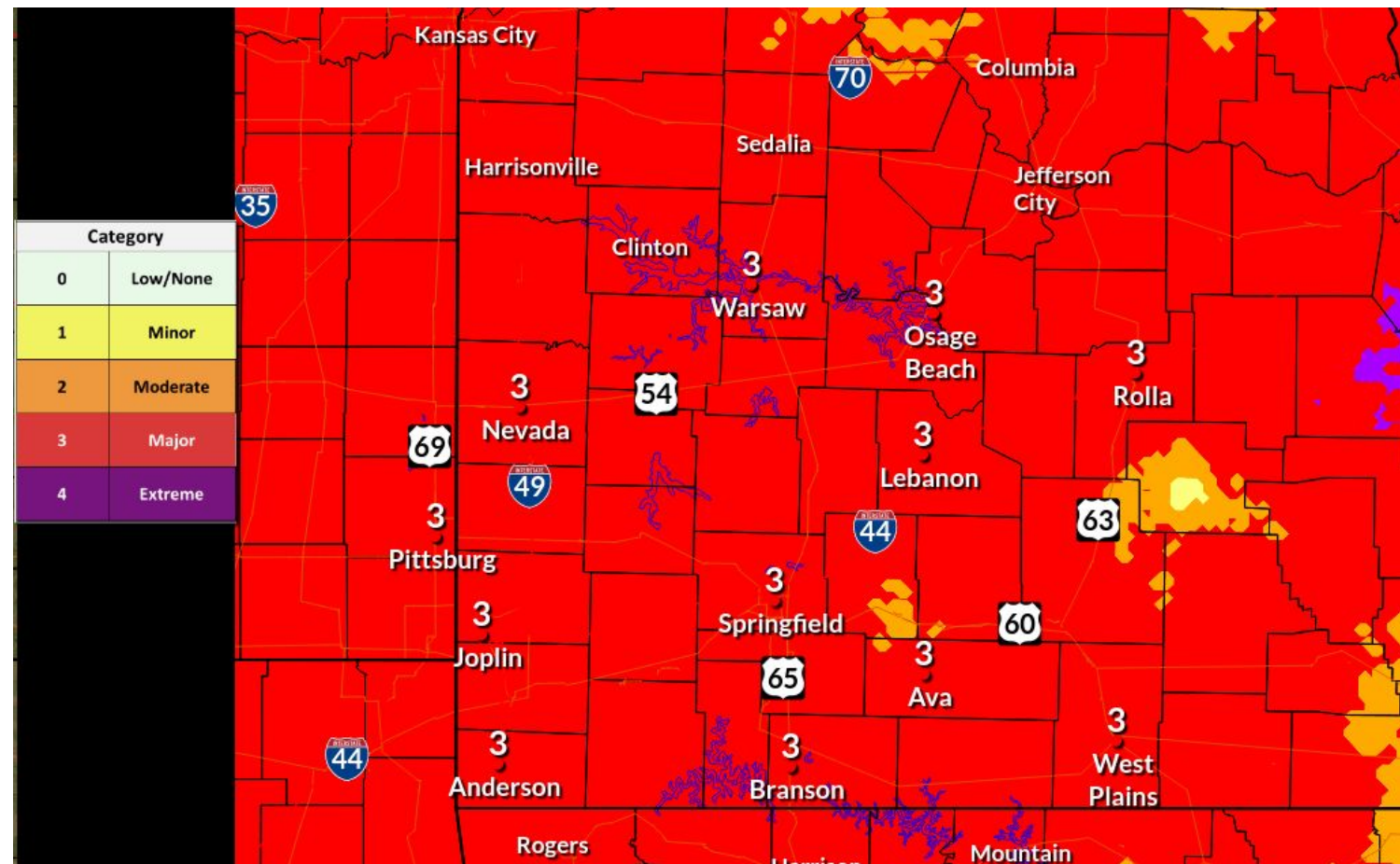


HeatRisk Monday & Tuesday

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HeatRisk Monday



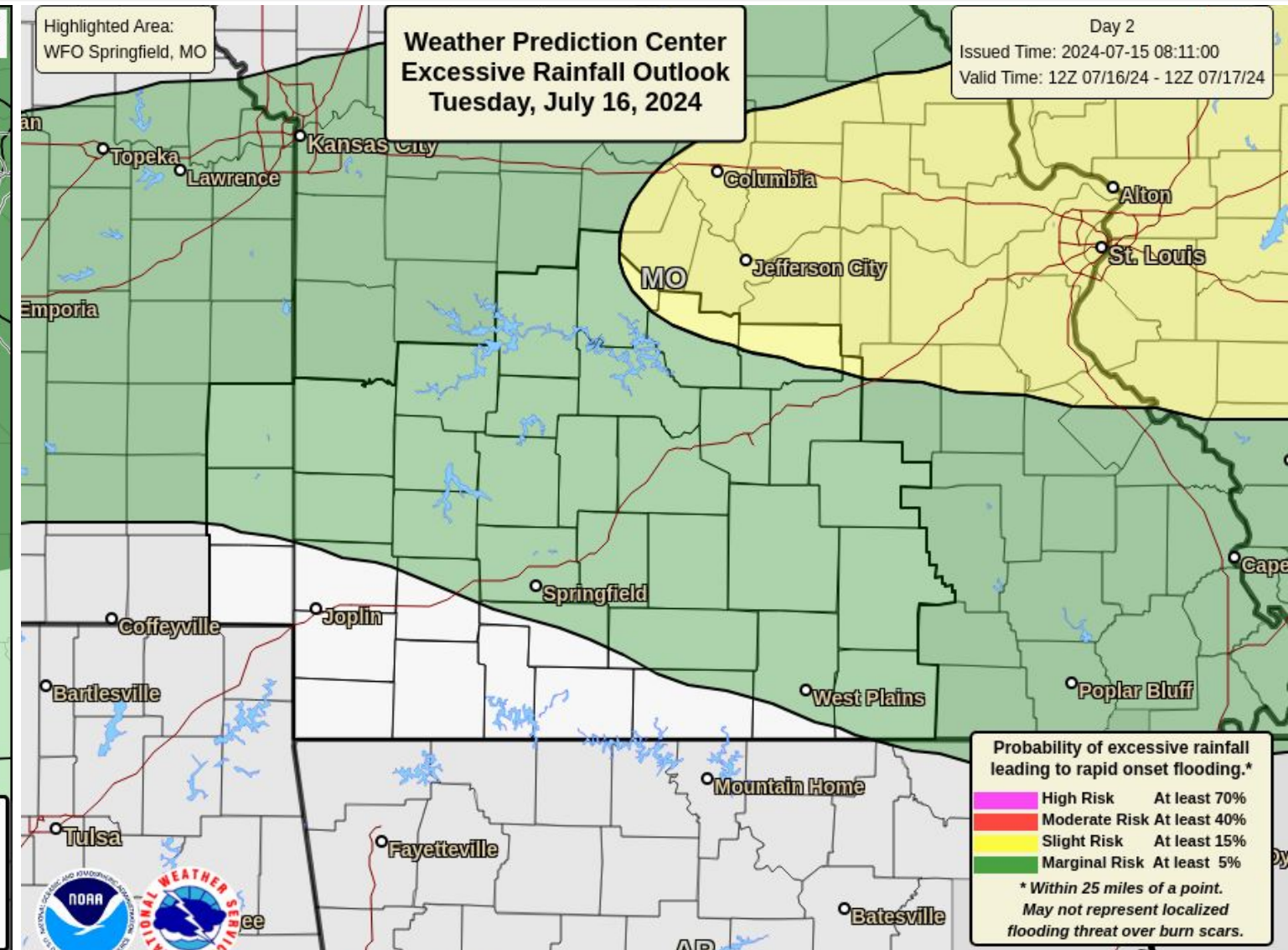
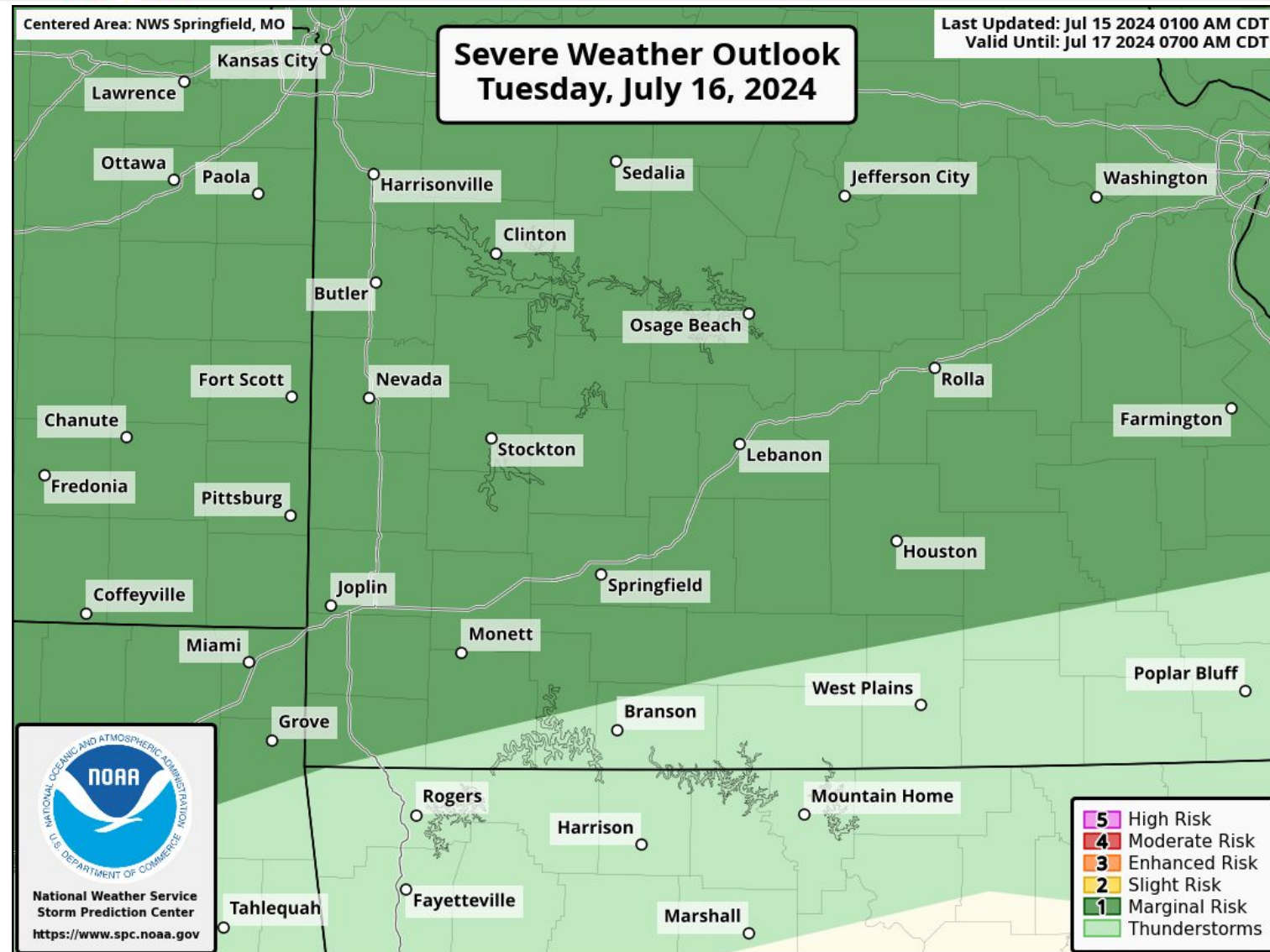
HeatRisk Tuesday



Thunderstorms Tue - Tue Night

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Heavy Rainfall and Low-end Severe Thunderstorm Chances



A cold front will move through the area Tuesday evening into Tuesday night. Storms that form along the front may bring heavy rainfall and a low-end chance of severe thunderstorms.



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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