



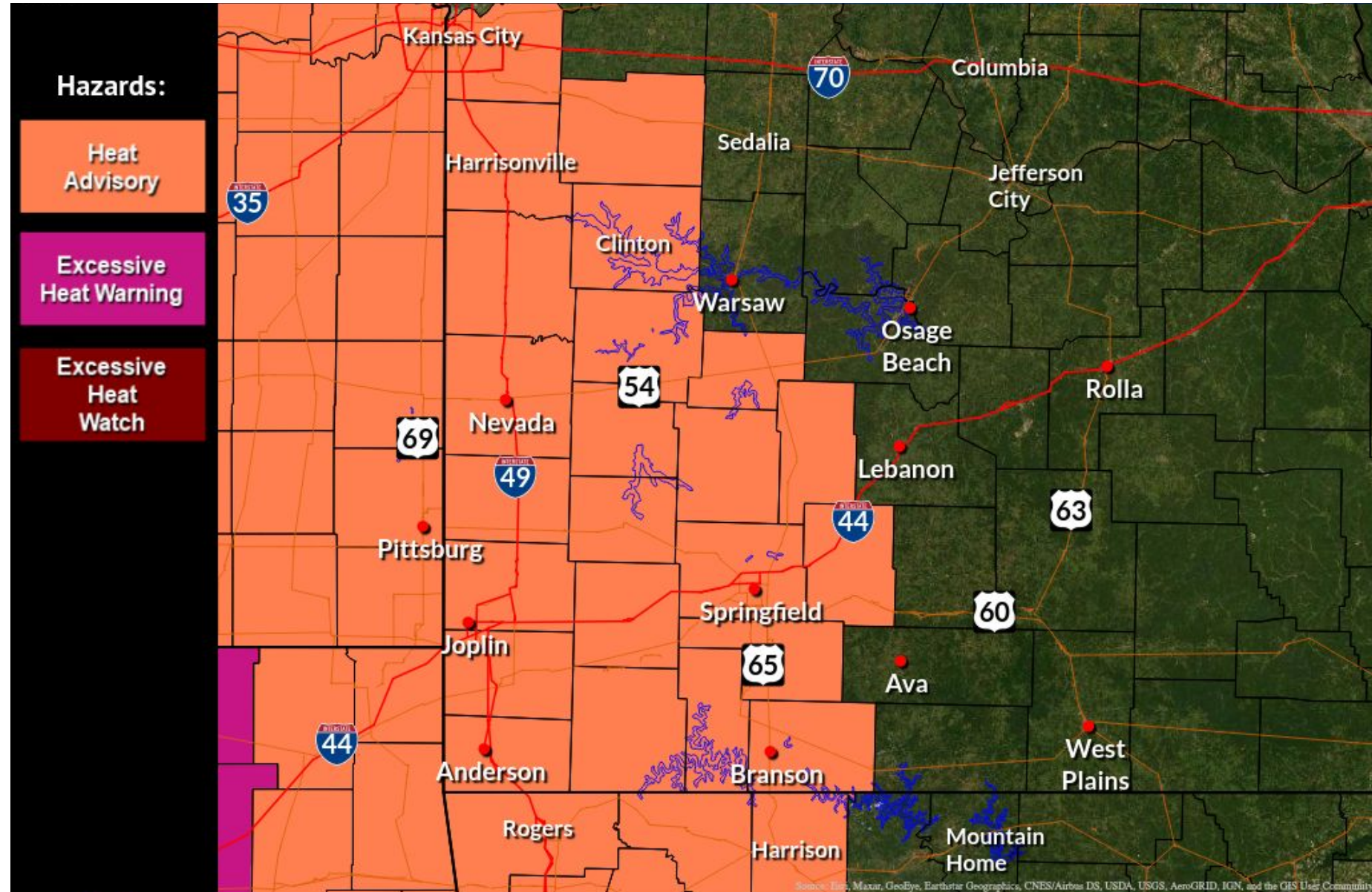
Heat and Humidity Returns Today

August 14, 2024
5:09 AM

A Heat Advisory remains in effect for portions of western Missouri and eastern Kansas

Key Messages

- A Heat Advisory is in effect from 12:00 PM - 9:00 PM Today.
- Maximum heat index values today between 105-108F.
- Thursday will be warmer with heat indices between 100-110F.
- Flood Watch through 3pm for areas east of Springfield.
- Slight risk for severe storms Thursday across the area.



Heat Headlines Today

Next Scheduled Update:

- This afternoon if needed



Narrow Heavy Rainfall Corridor Today

August 14, 2024
5:09 AM

Flood Watch until 3pm

Thunderstorms with very heavy rainfall in a narrow band this morning.

Total Rainfall Amounts



Heavy rainfall of 2 - 4 inches with localized amounts to 6 inches.

Flooding



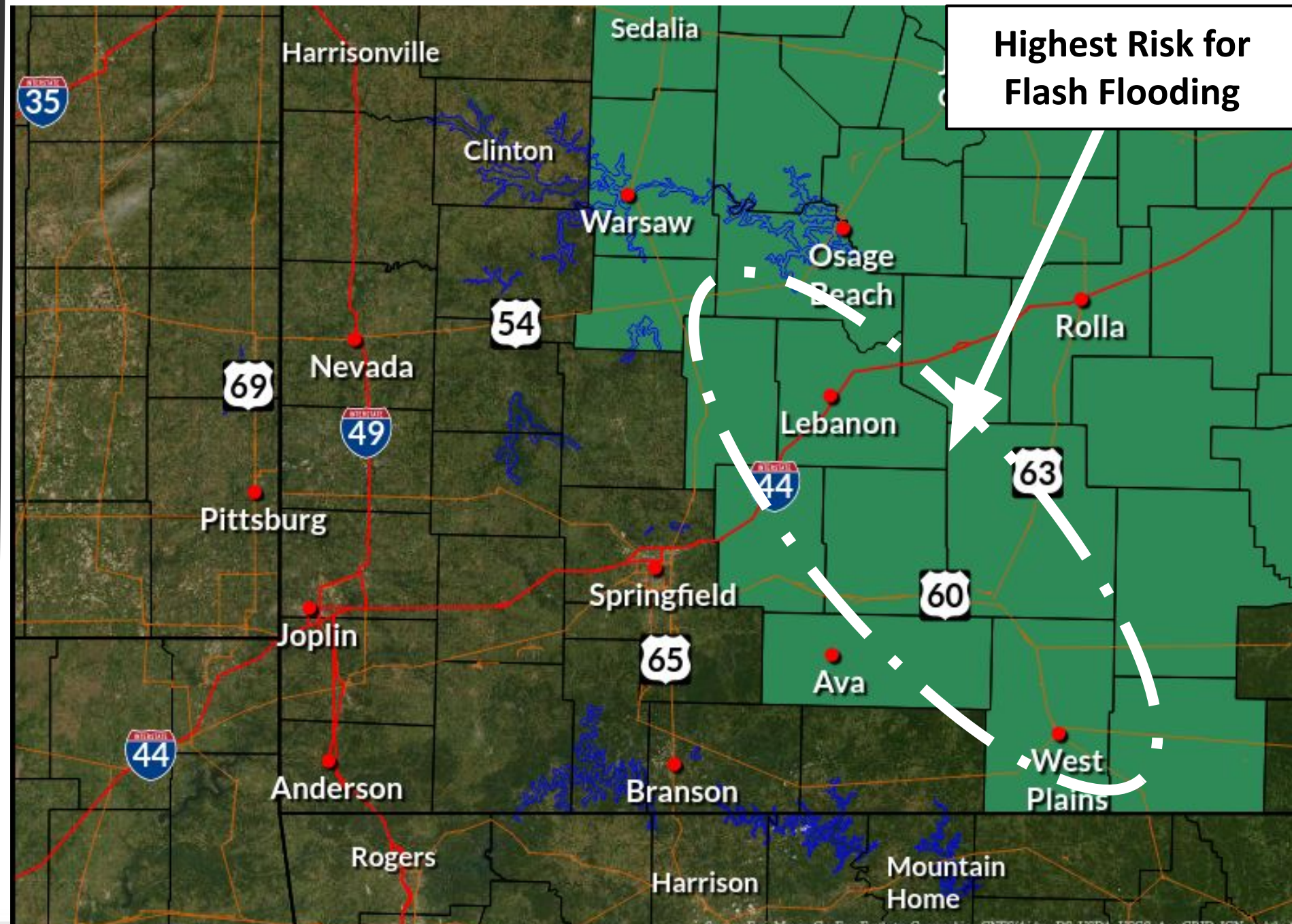
Localized flash flooding along low lying areas for locations that see multiple storms.



Rapid rises along area waterways.

Turn around, don't drown!

Have multiple ways to receive warnings.



Highest Risk for Flash Flooding



Narrow Rainfall Corridor Today

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5:09 AM

East of Springfield

What

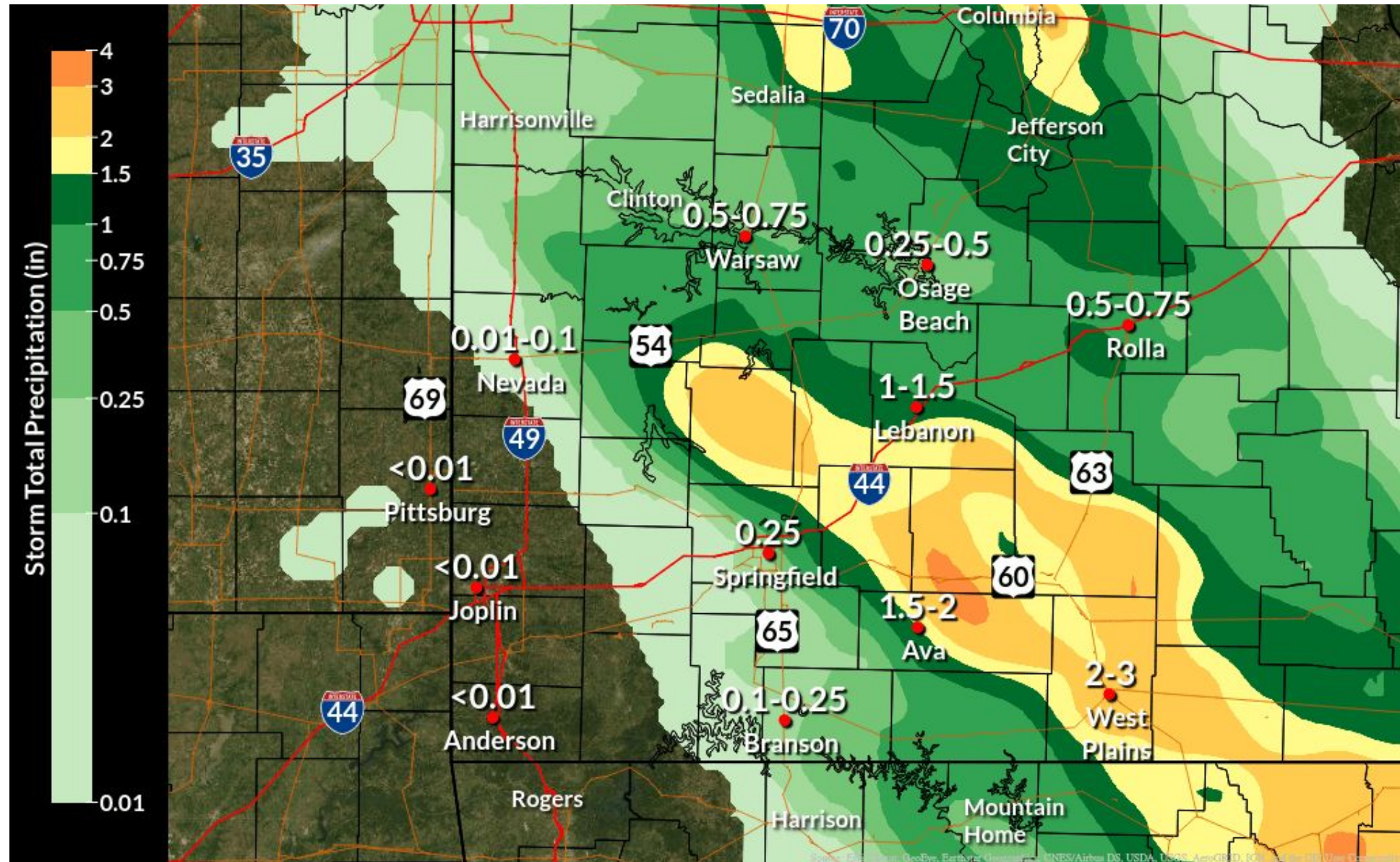
- A narrow corridor of heavy rainfall of 2-4 inches with localized amounts near 6 inches.

Where

- East of Springfield generally along or near a Buffalo/Lebanon to Hartville to West Plains line.

When

- Heaviest rainfall will occur through 10am then decreases.

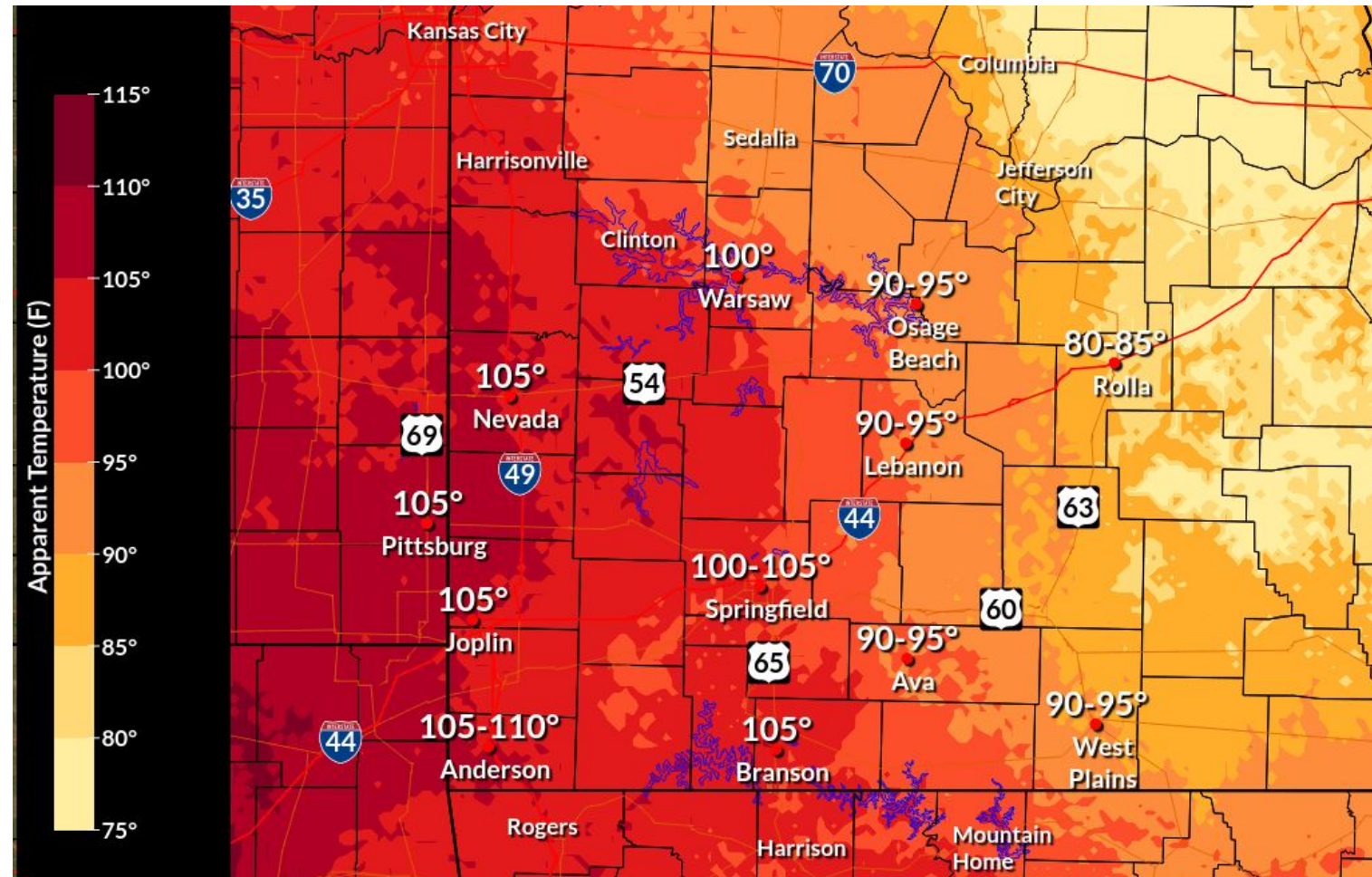


Total Rainfall Amounts Today

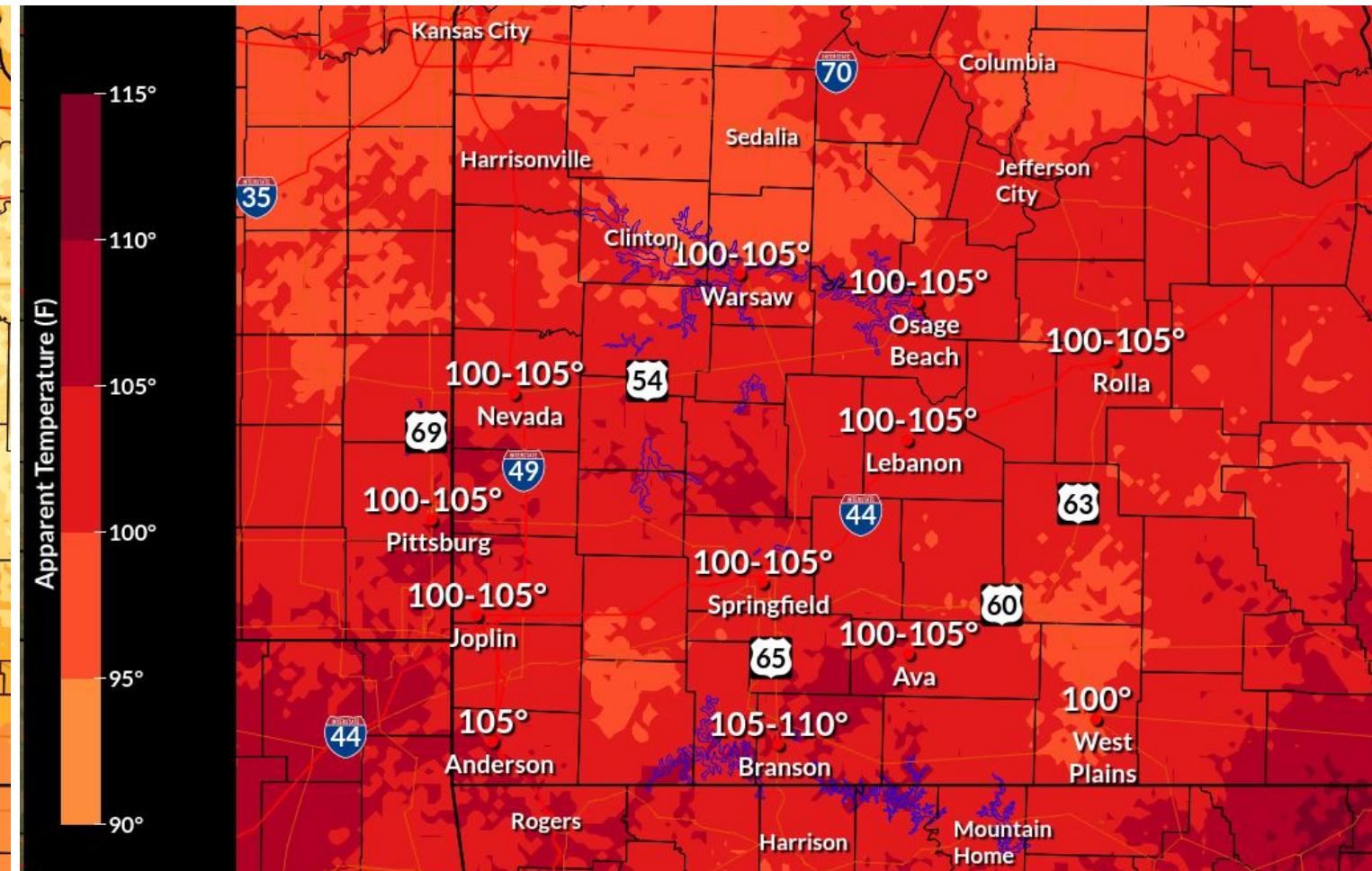


Heat Index Today and Thursday

August 14, 2024
5:09 AM



Wednesday Forecast Heat Index



Thursday Forecast Heat Index



Understanding Heat Index

August 14, 2024
5:09 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.

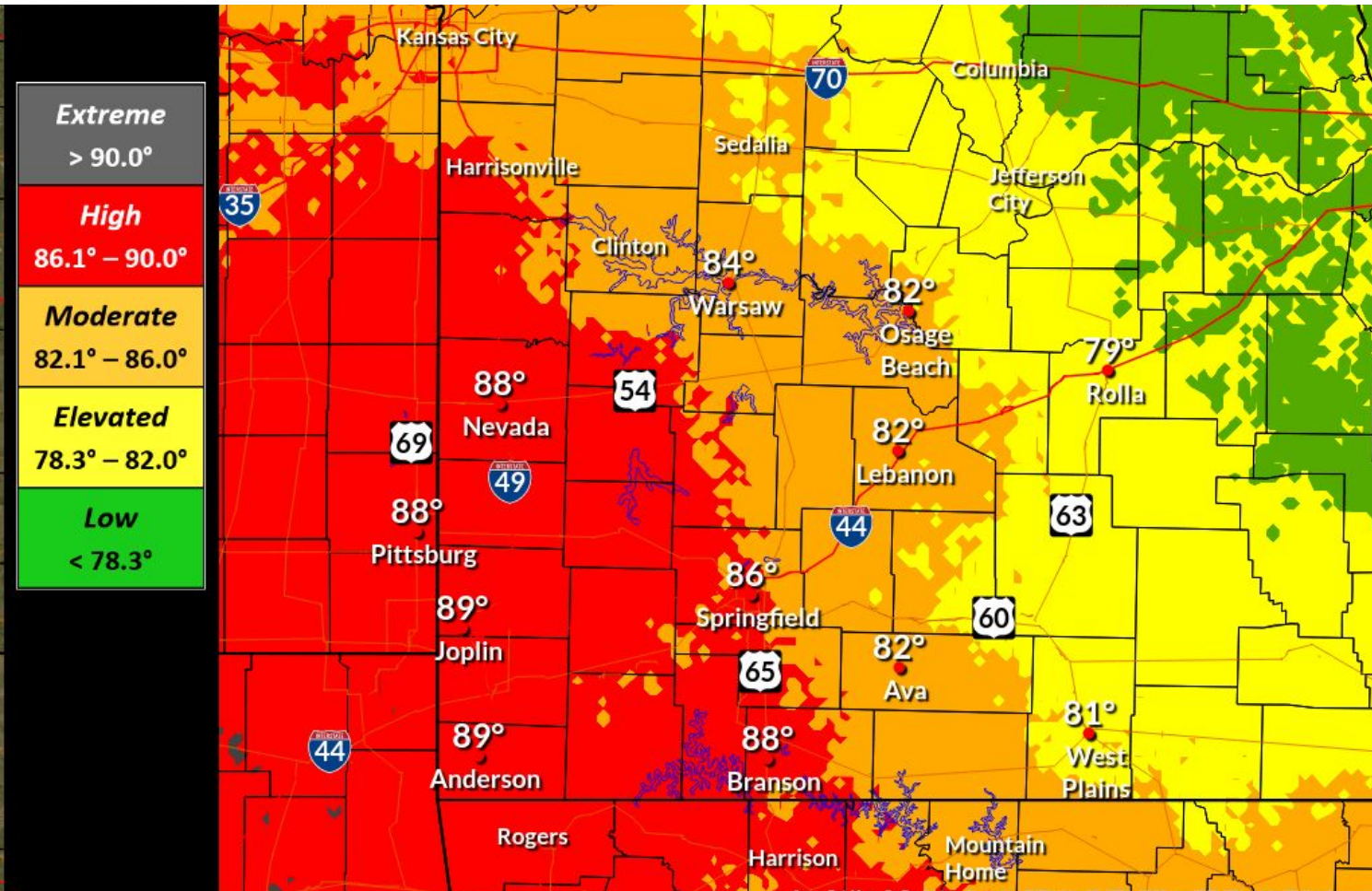
Heat Index is the most commonly used and understood heat tool by the general public. The higher the values the hotter it's going to feel and the higher the threat for heat related illnesses. It's calculated from the temperature and relative humidity. Heat Index assumes you are in the shade. The Heat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



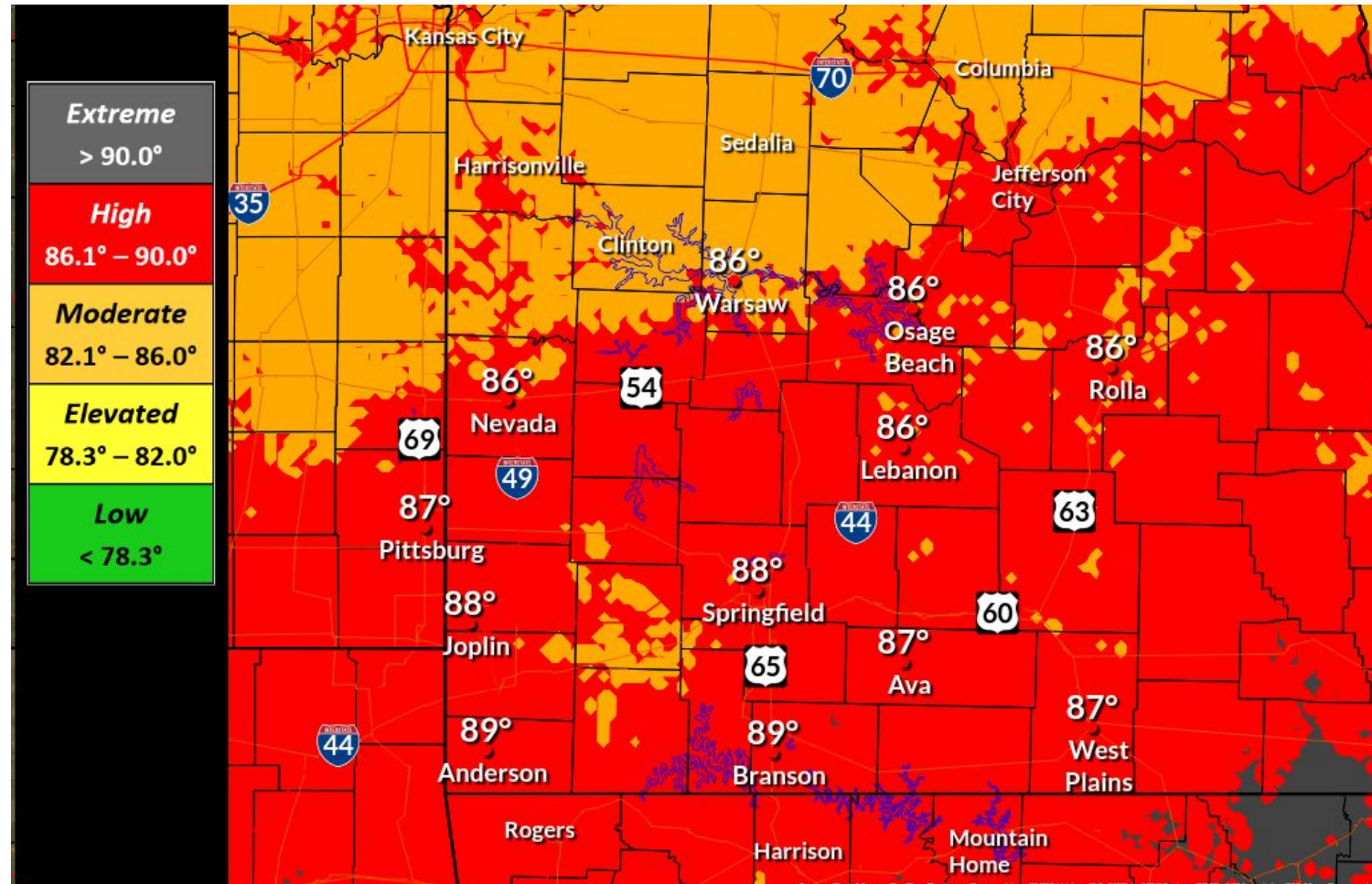


Wet Bulb Globe Temperature Forecast

August 14, 2024
5:09 AM



Wednesday Forecast Maximum WBGT



Thursday Forecast Maximum WBGT



Understanding Wet Bulb Globe Temperatures

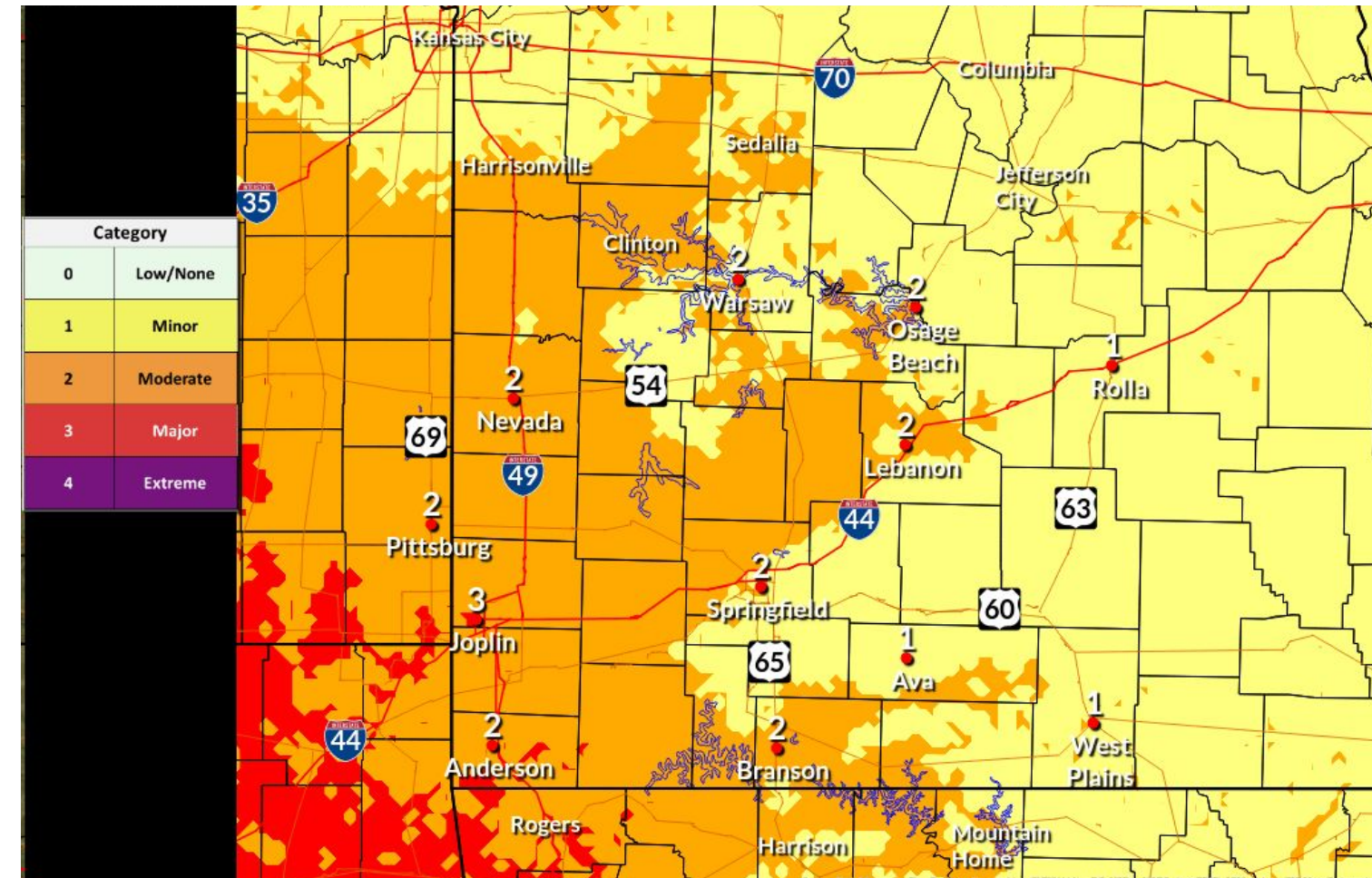
August 14, 2024
5:09 AM

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.
<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>			

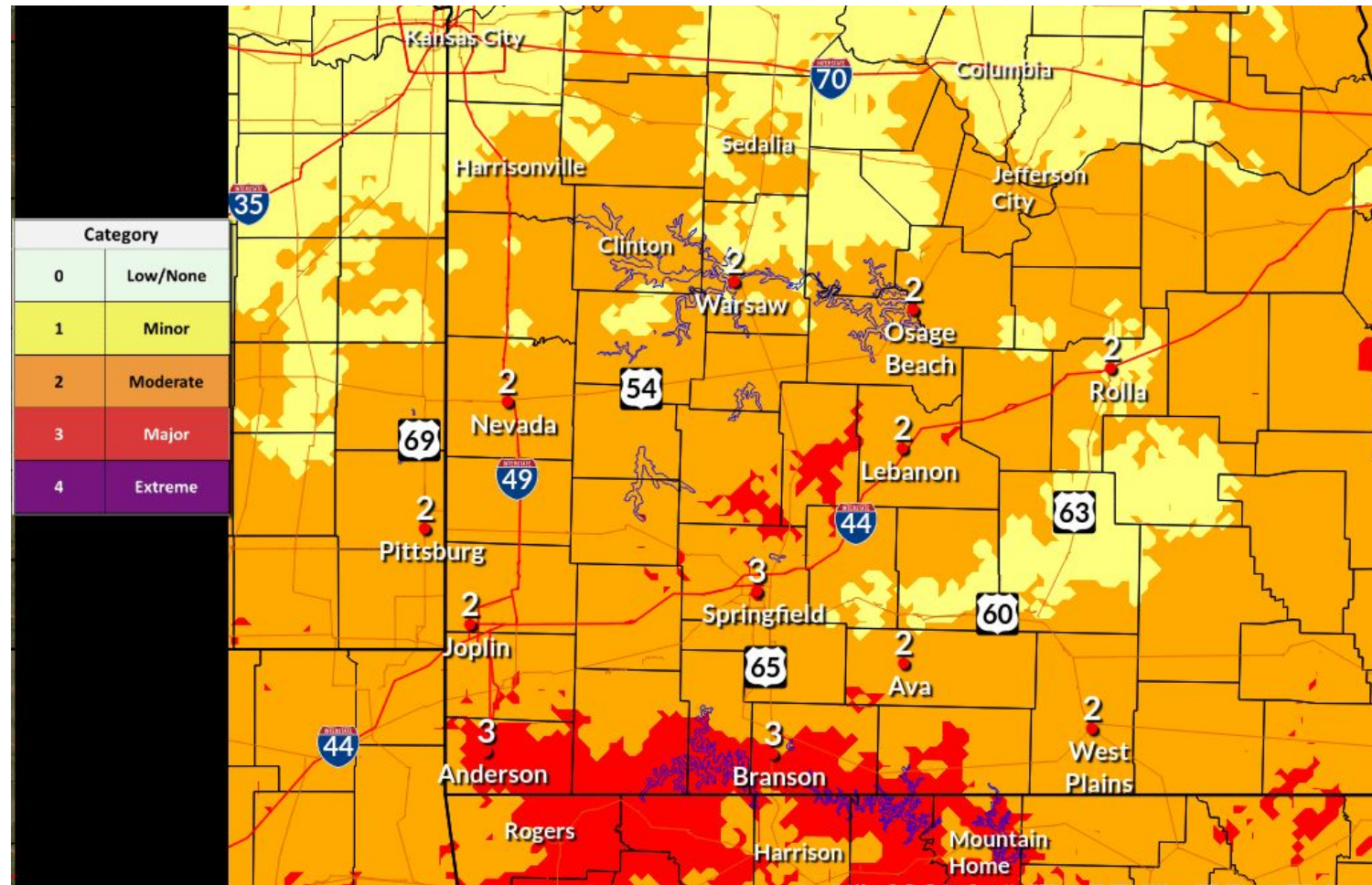


NWS HeatRisk Forecast

August 14, 2024
5:09 AM



Wednesday HeatRisk



Thursday HeatRisk



Understanding NWS HeatRisk

August 14, 2024
5:09 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.



Slight Risk Severe Storms Thursday

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5:09 AM

Monitor the Forecast



Key Message

There is the potential for severe thunderstorms late Thursday afternoon through Thursday evening across the area as a front moves through.



Hazards



Large Hail



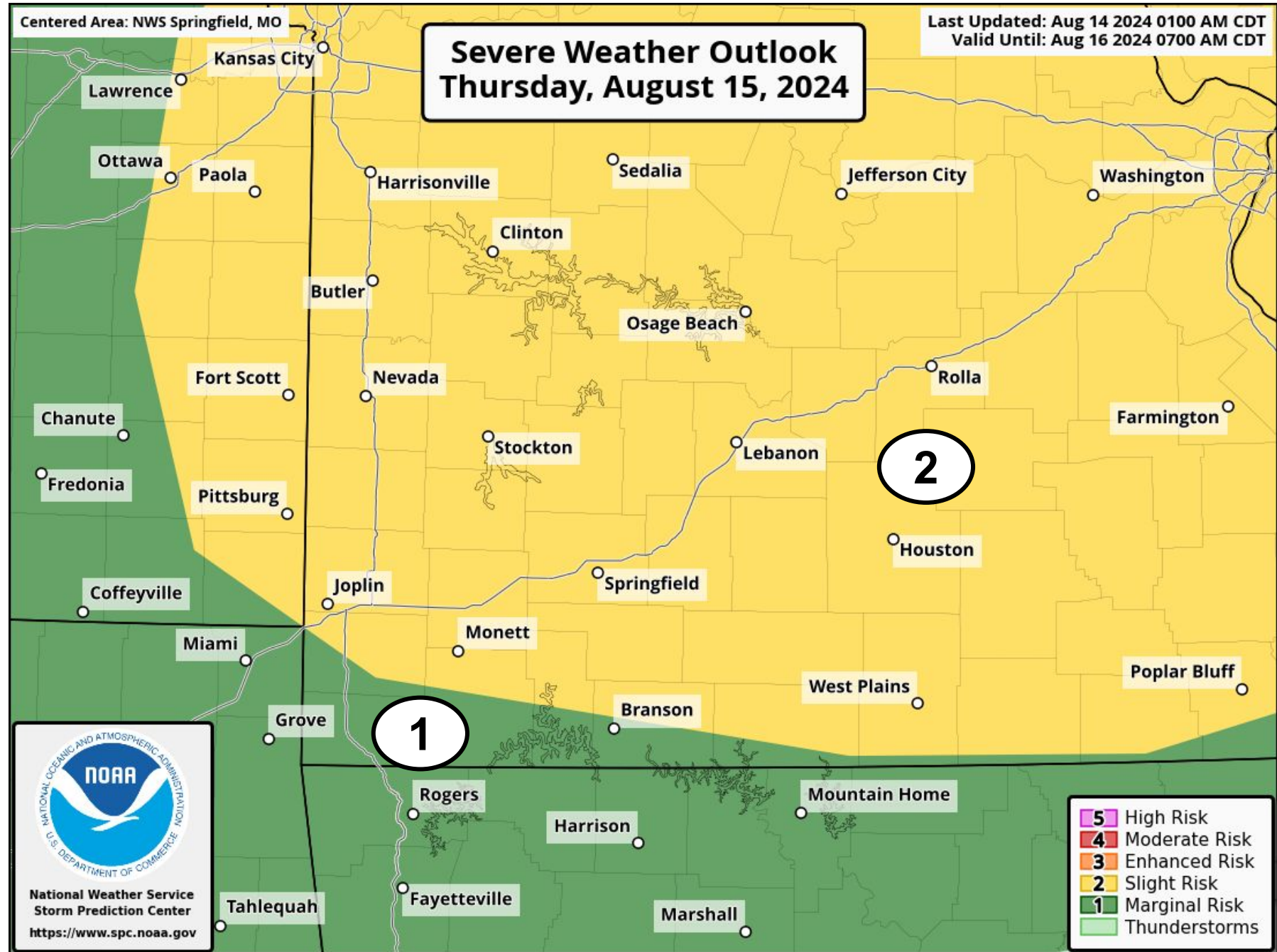
Damaging wind gusts



Actions

Remain Weather Aware and have multiple ways to receive weather information and warnings!

Check the forecast for updates

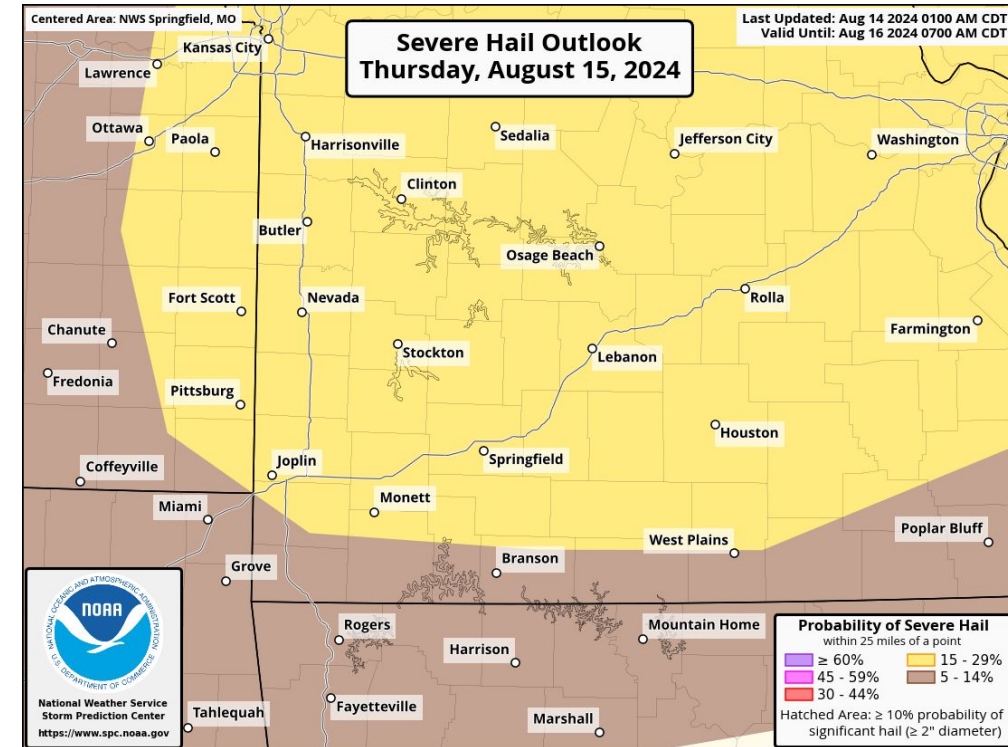




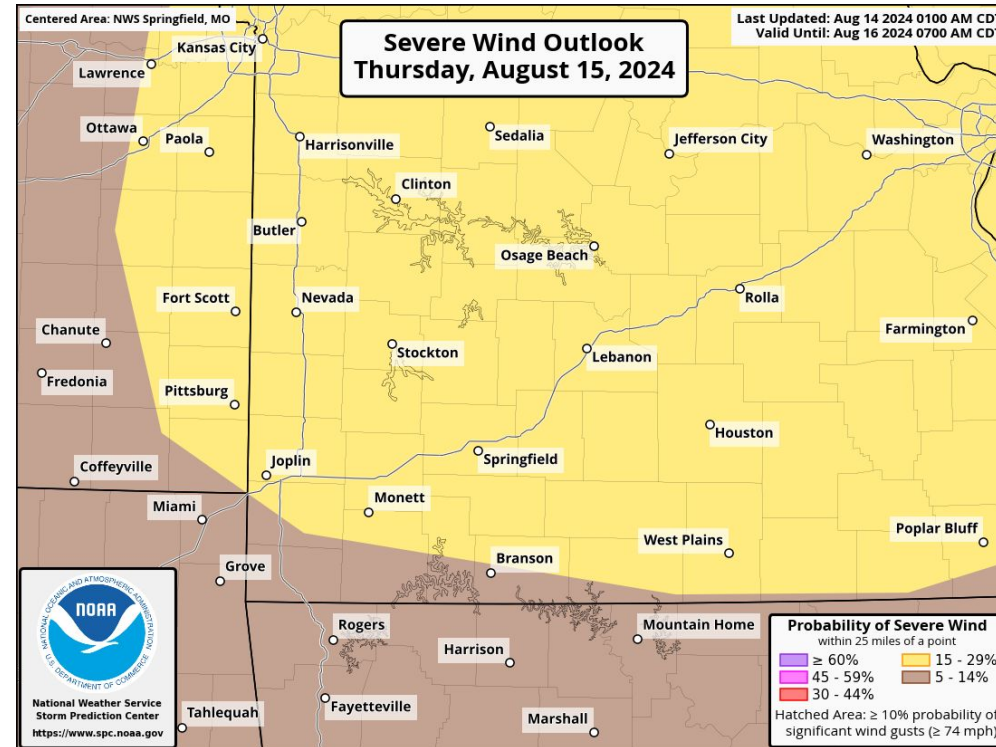
Thursday Severe Probs

August 14, 2024
5:09 AM

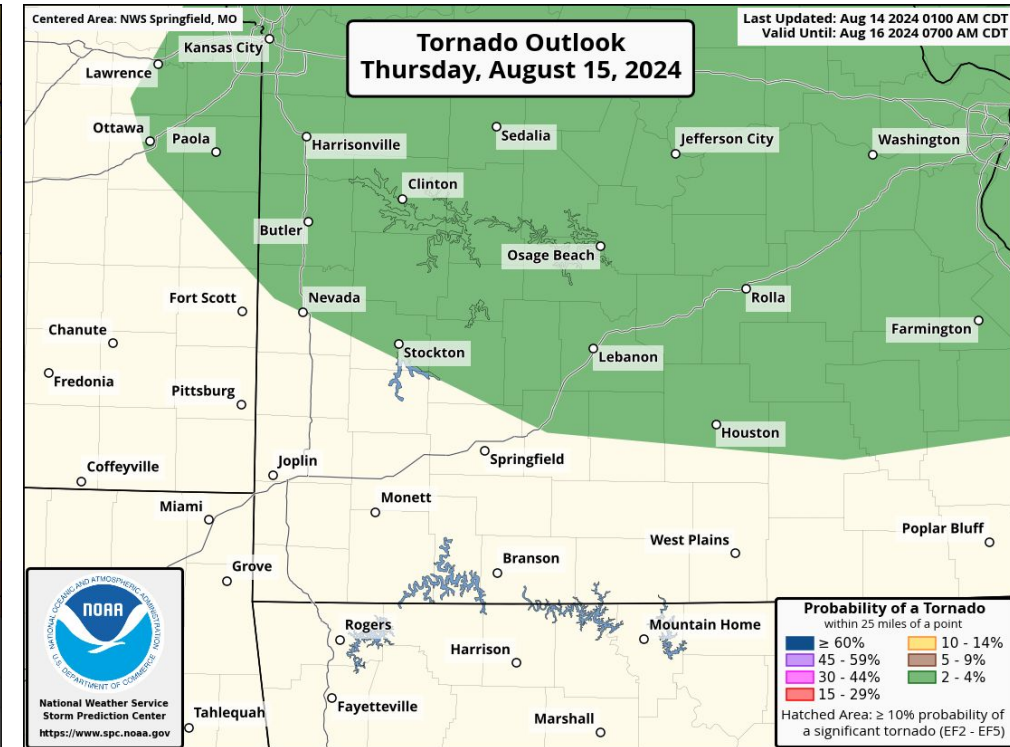
Large Hail and Damaging Winds the main risks



Hail Probability



Wind Probability



Tornado Probability



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](#)
- [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](#)

Follow @NWSSpringfield



Heat Exhaustion

Heat Stroke

ACT FAST

- Move to a cooler area
- Loosen clothing
- Sip cool water
- Seek medical help if symptoms don't improve

Dizziness

Thirst

Heavy Sweating

Nausea

Weakness



Confusion

Dizziness

Becomes Unconscious

ACT FAST

CALL 911

- Move person to a cooler area
- Loosen clothing and remove extra layers
- Cool with water or ice

Heat exhaustion can lead to heat stroke.

Heat stroke can cause death or permanent disability if emergency treatment is not given.



Stay Cool, Stay Hydrated, Stay Informed!



Heat Impacts: Vulnerable Populations



PREGNANT



NEWBORNS



CHILDREN



ELDERLY



CHRONIC ILLNESS

Everyone is at risk from the dangers of extreme heat, but these groups are more vulnerable than most. Age and certain conditions make the body less able to regulate temperature.



NEVER leave anyone alone in a closed car



Drink plenty of water, even if not thirsty



Use air conditioners and stay in the shade



Wear loose-fitting, light-colored clothing

weather.gov



National Weather Service
Springfield, MO



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