



# Heat Advisory Today and Tuesday

June 24, 2024  
4:03 AM

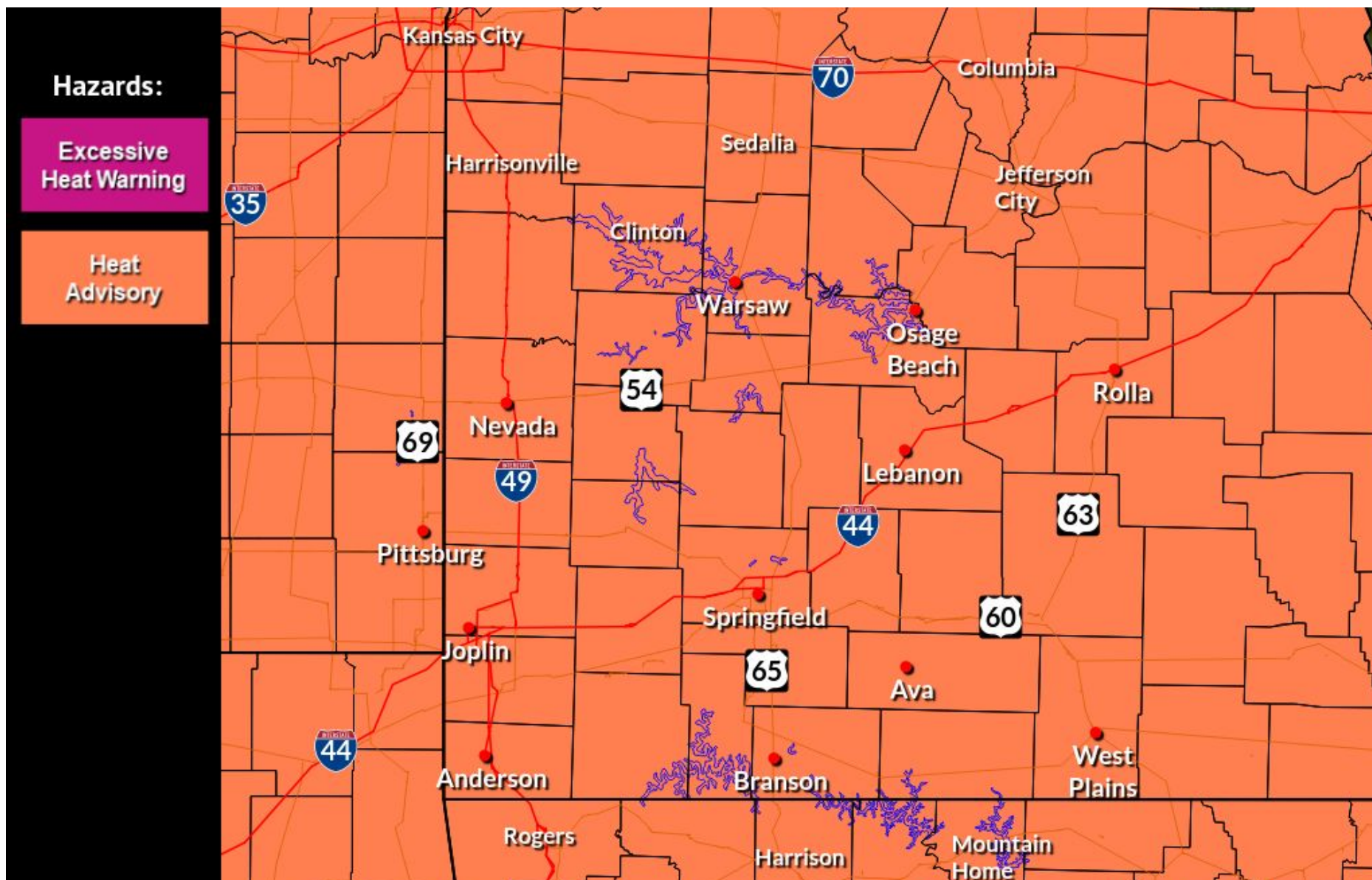
Excessive Heat Expected Daily This Week

## Key Messages

- A Heat Advisory is in effect from noon today until 8 PM Tuesday. Heat index values will range between 100 -110 degrees today and 100-105 degrees Tuesday.
- Daily maximum temperatures in the 90s through the week, with heat indices in the 90s and into the 100s.
- Overnight low temperatures will be in the upper 60s and 70s.
- Isolated strong to marginally severe thunderstorm chances Tuesday night into Wednesday.

## Next Scheduled Briefing

- Monday Afternoon by 4 PM



**Heat Advisory: Noon Today until 8 PM Tuesday**



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

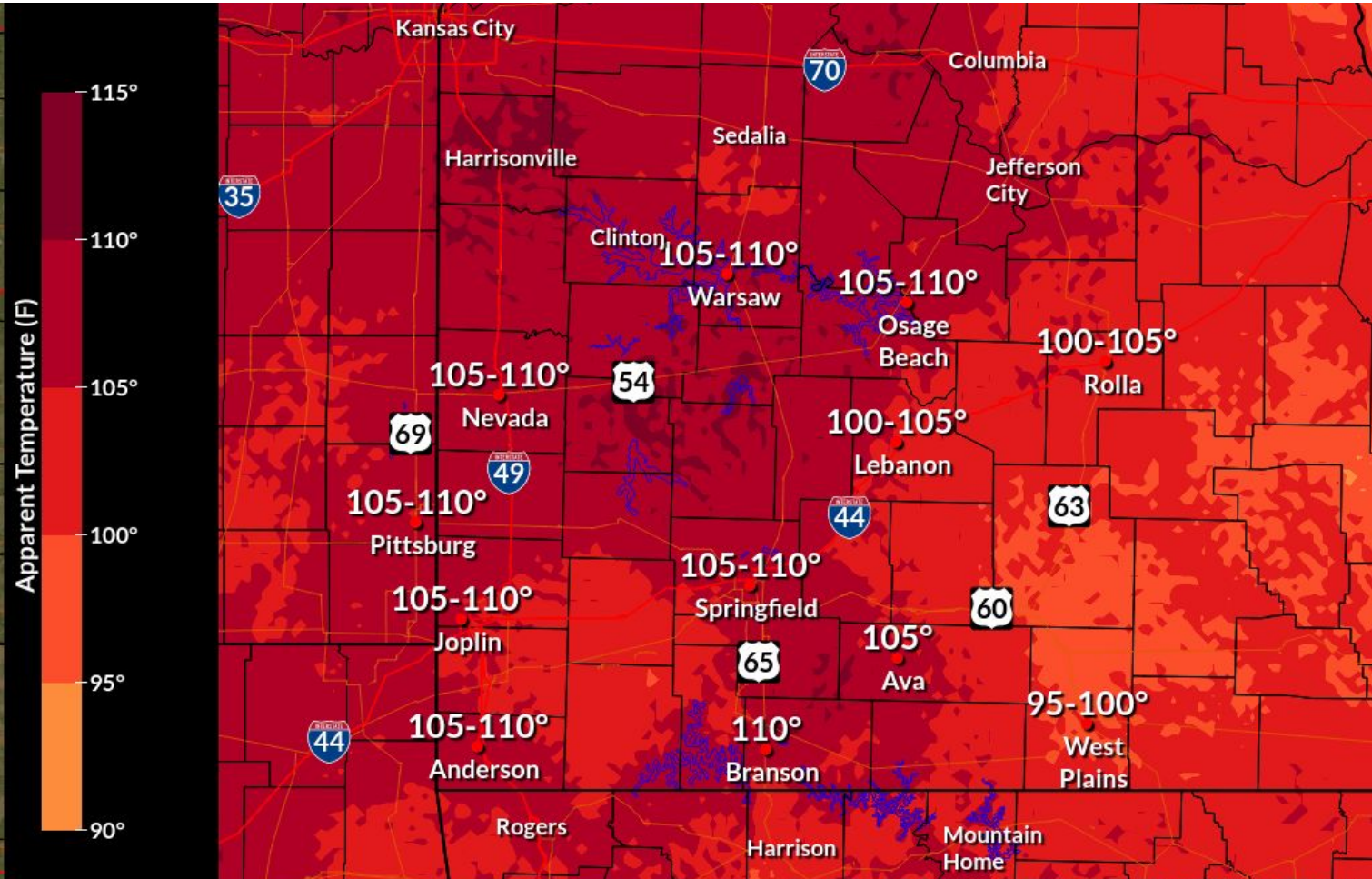
National Weather Service  
Springfield, MO



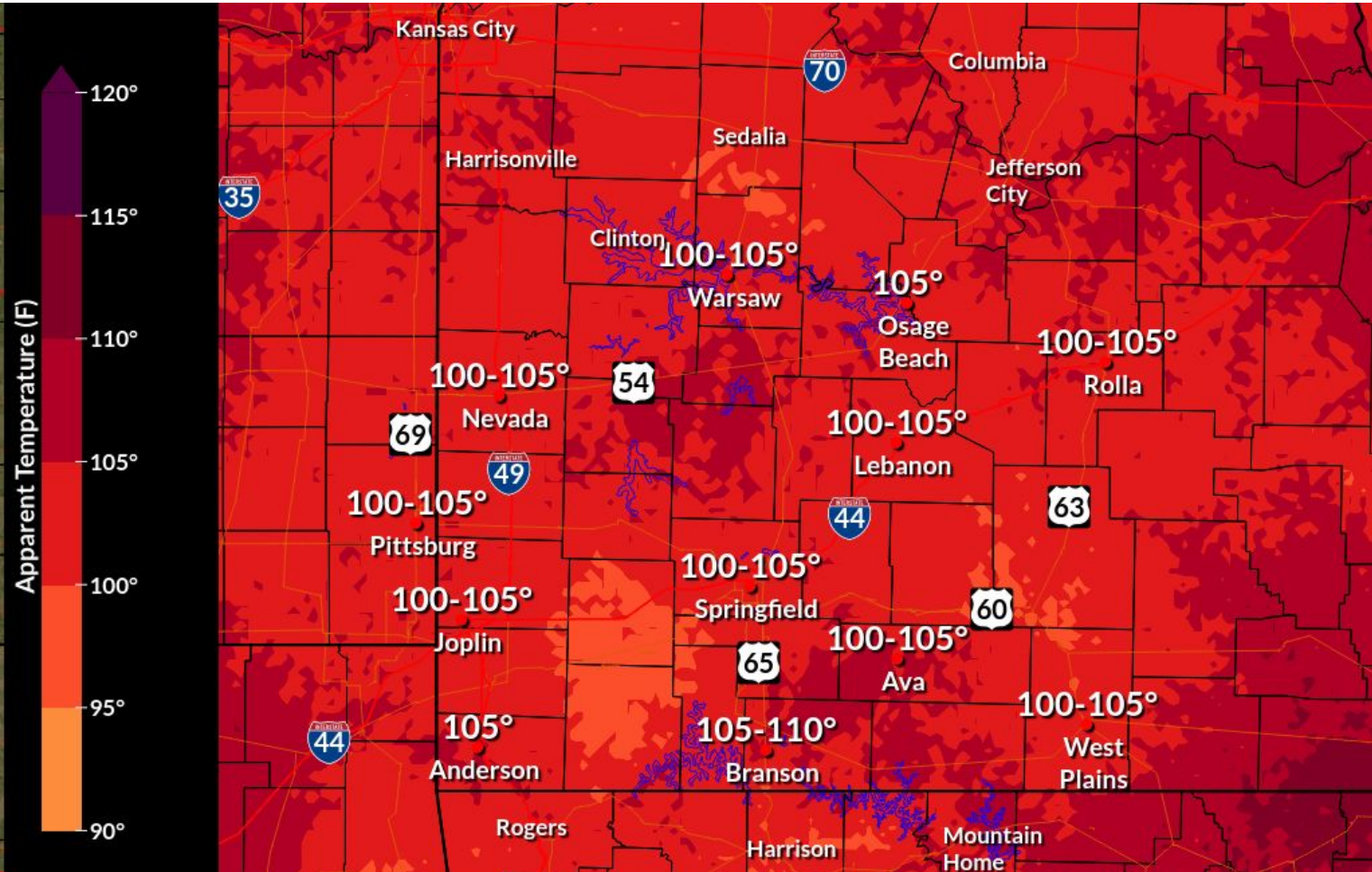
# Heat Index Today and Tuesday

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Heat Advisory Issued for the Entire Area Through Tuesday



Heat Index Today



Heat Index Tuesday

*Heat Advisory in Effect from Noon Today until 8 PM Tuesday*



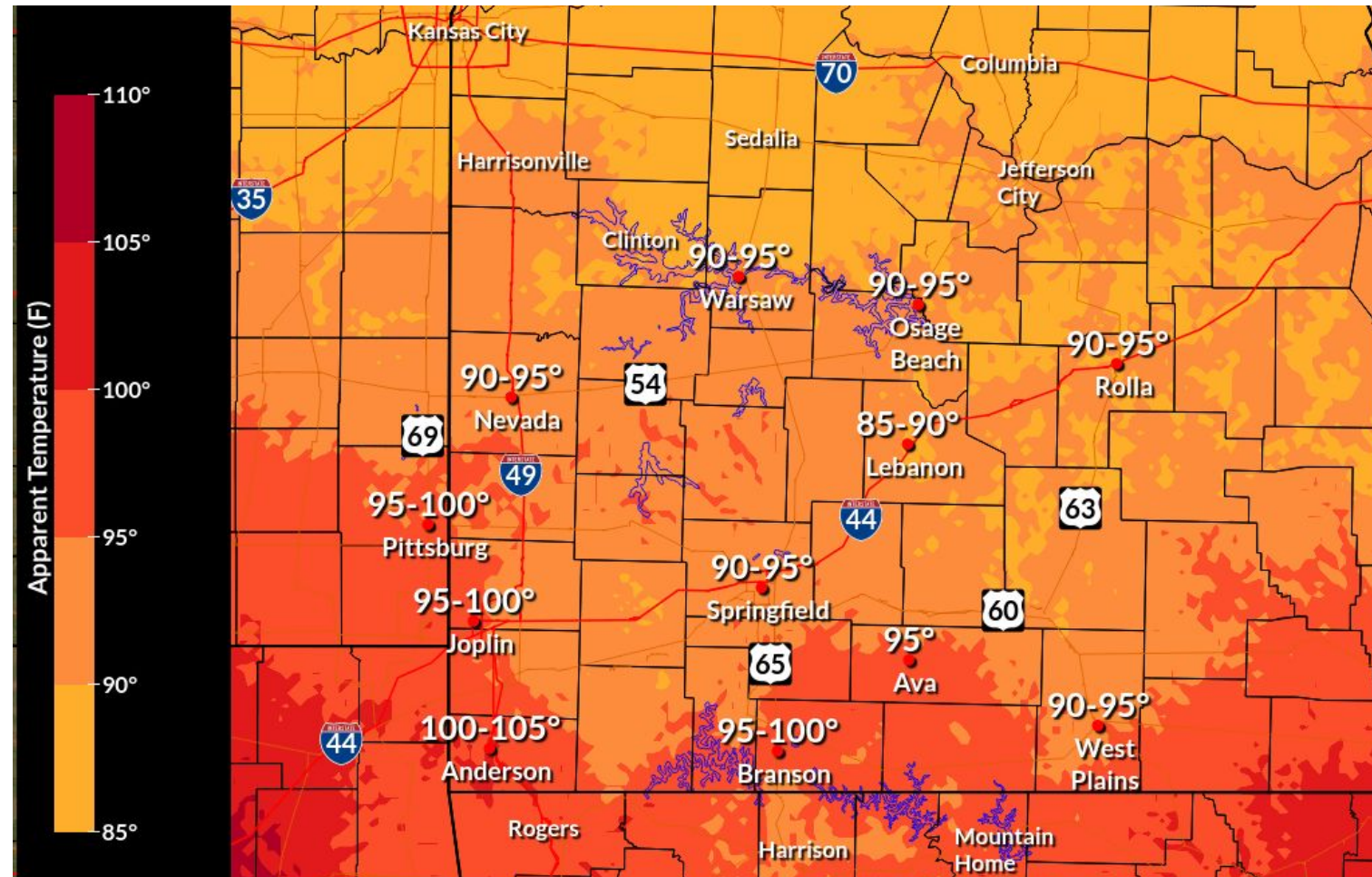
National Oceanic and  
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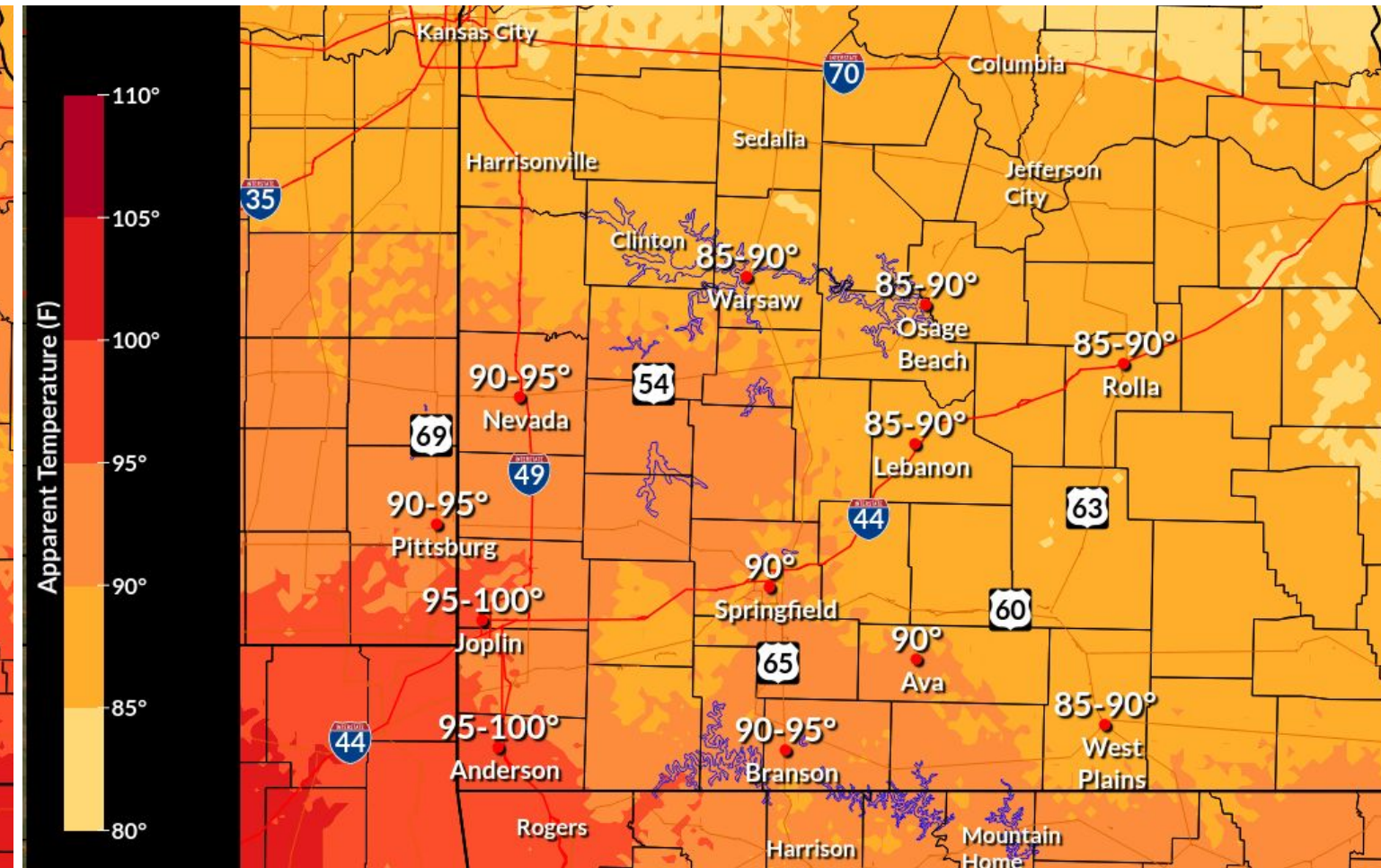


# Heat Index Wednesday and Thursday

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Heat Index Wednesday



Heat Index Thursday





# Understanding Heat Index

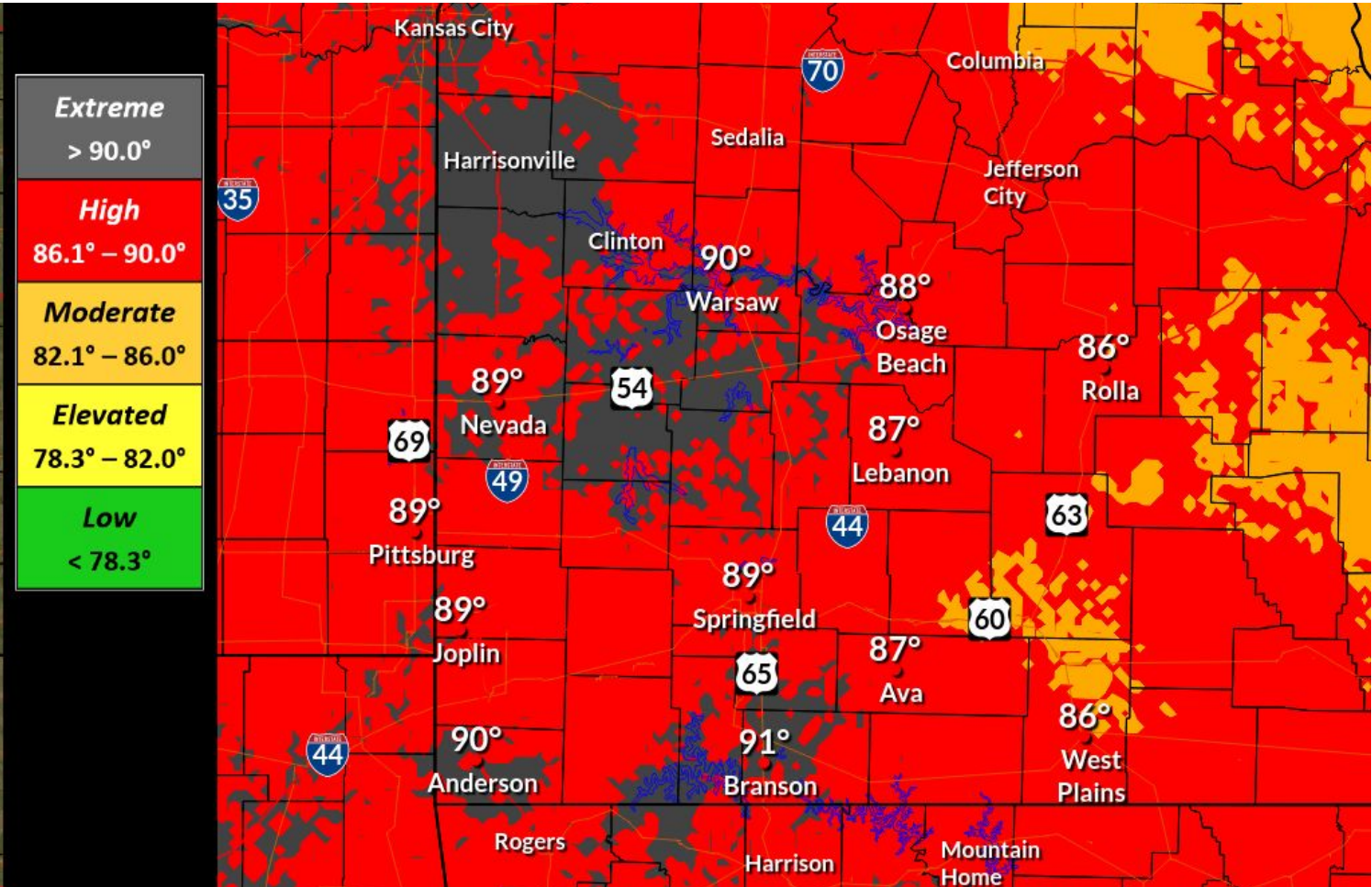
| Heat Index  |                 |   |
|---|-----------------|---|
| Classification  | Heat Index (°F) | Effect on the Body  |
| Caution   | 80 to 89        | Fatigue possible with prolonged exposure and/or physical activity.  |
| Extreme Caution   | 90 to 102       | Heat stroke, heat cramps or heat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



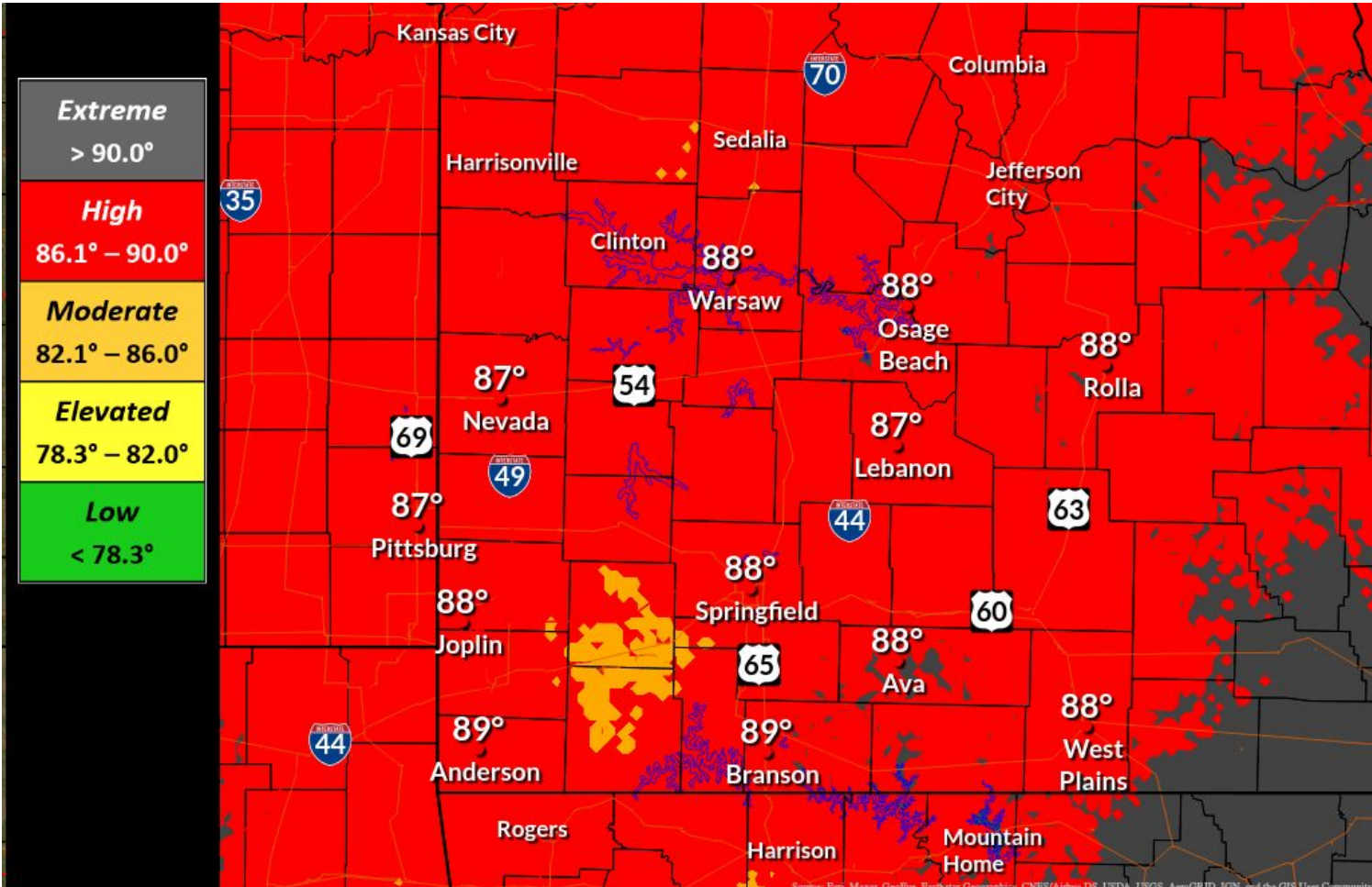


# Wet Bulb Globe Temperature Forecast

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Maximum WBGT Today



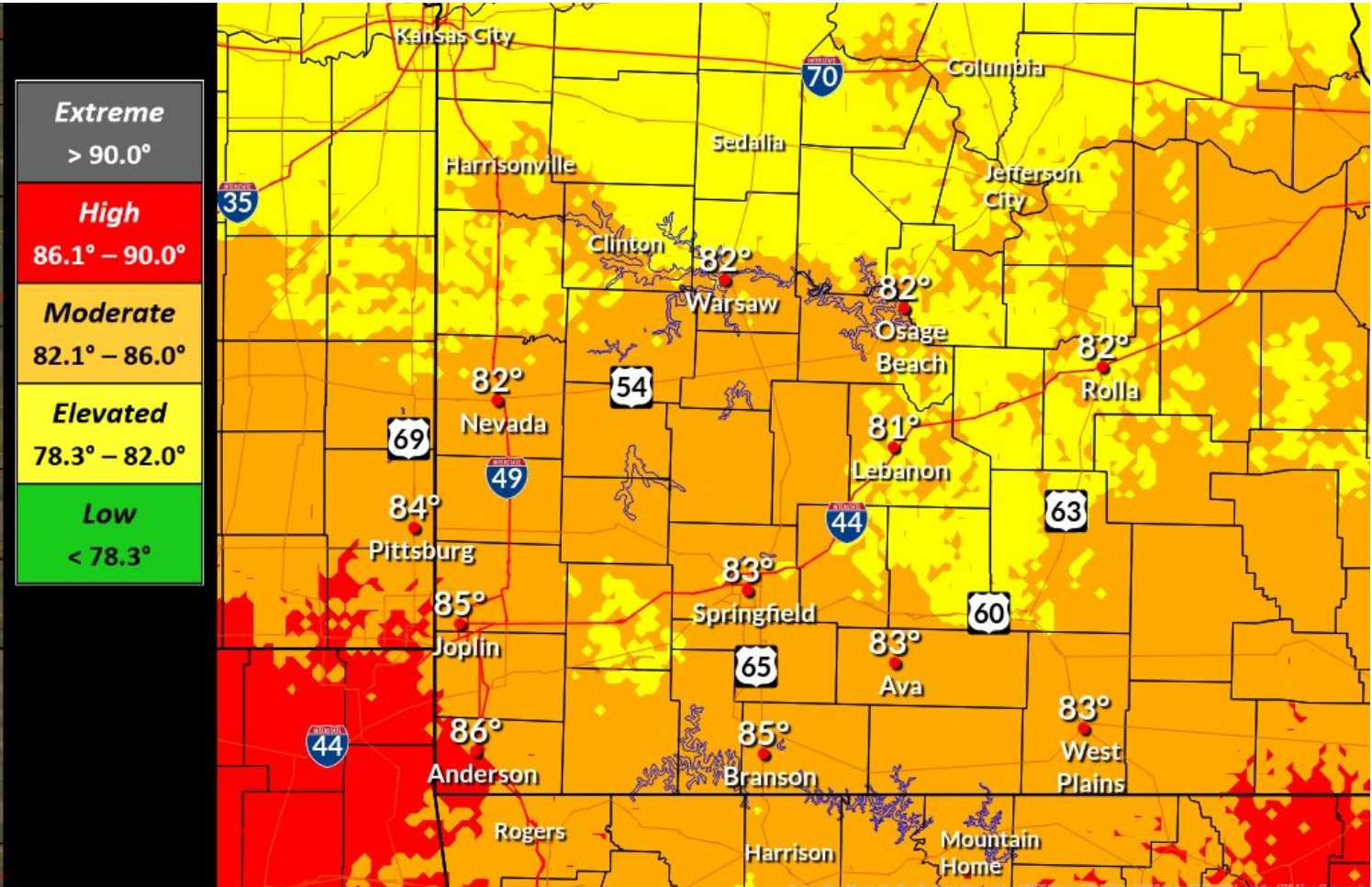
Maximum WBGT Tuesday



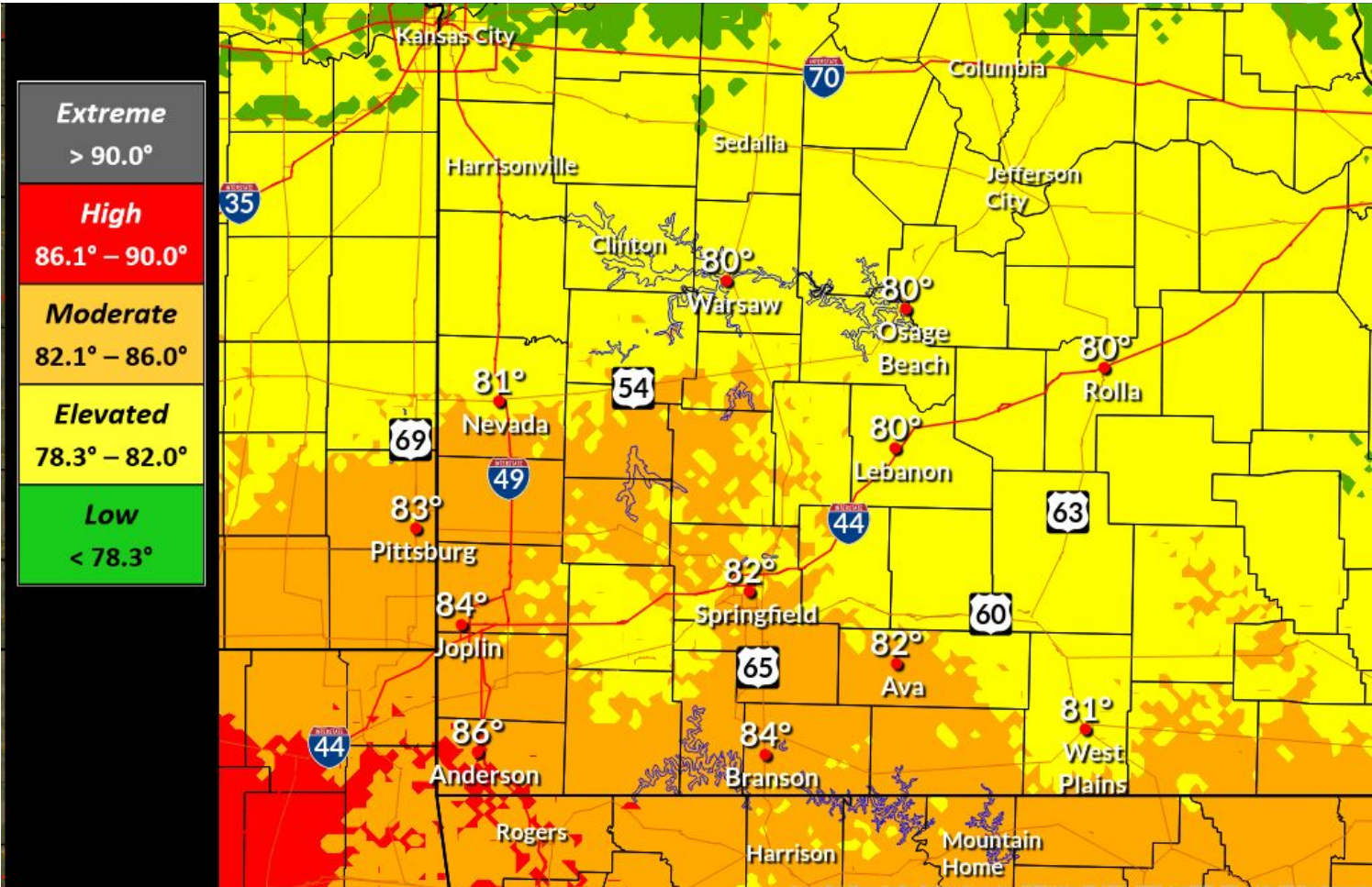


# Wet Bulb Globe Temperature Forecast

June 24, 2024  
4:03 AM



Maximum WBGT Wednesday



Maximum WBGT Thursday





# Understanding Wet Bulb Globe Temperatures

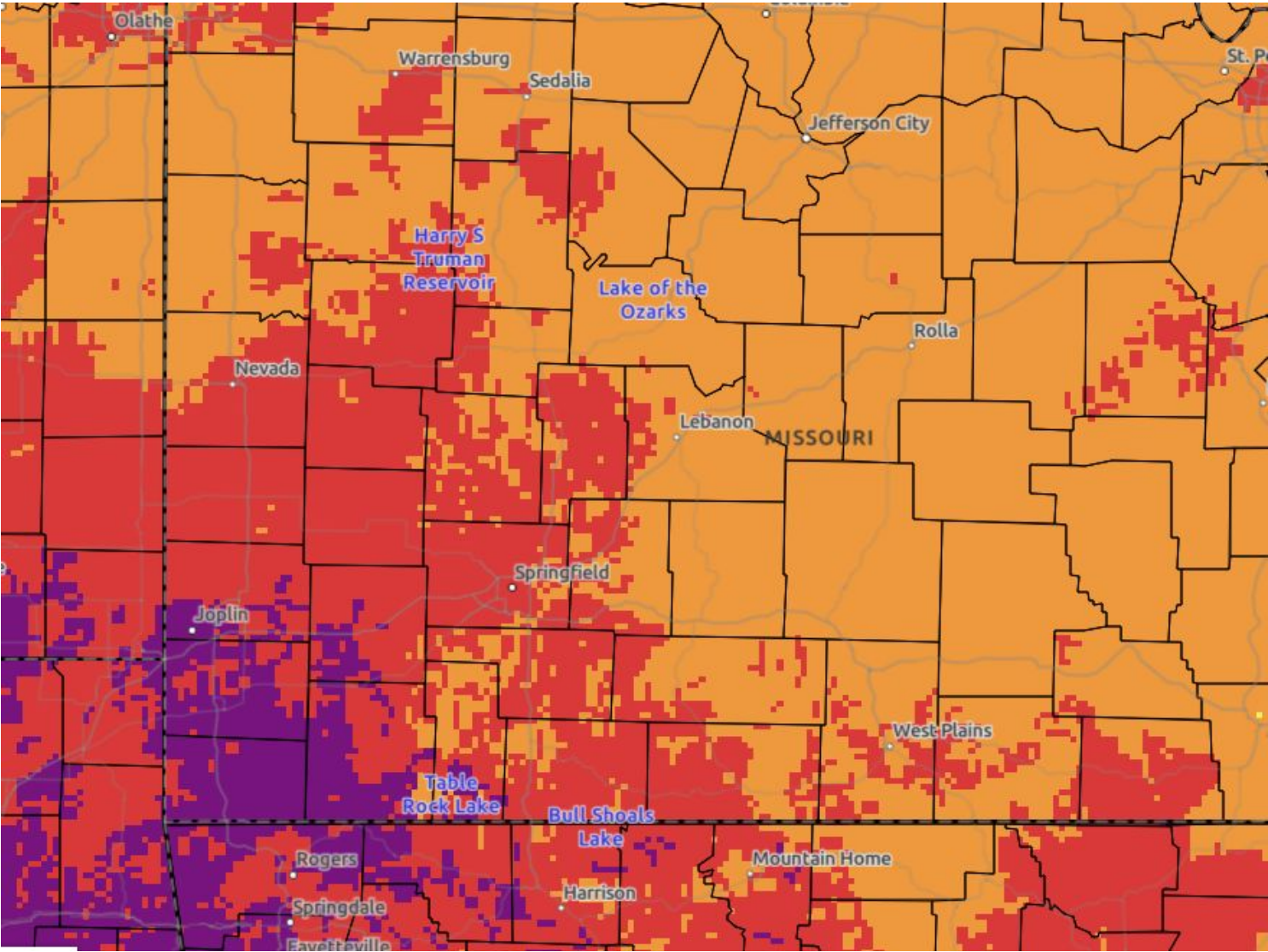
| Wet Bulb Globe Temperature (WBGT)  |             |  |  |
|--|-------------|--|--|
| Threat Level   | WBGT (°F)   | Effects  | Call to Actions  |
| Low  | < 78.3      | Normal activities.   | Take at least 3-5 minutes of breaks each hour if working or exercising in direct sunlight. |
| Elevated   |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



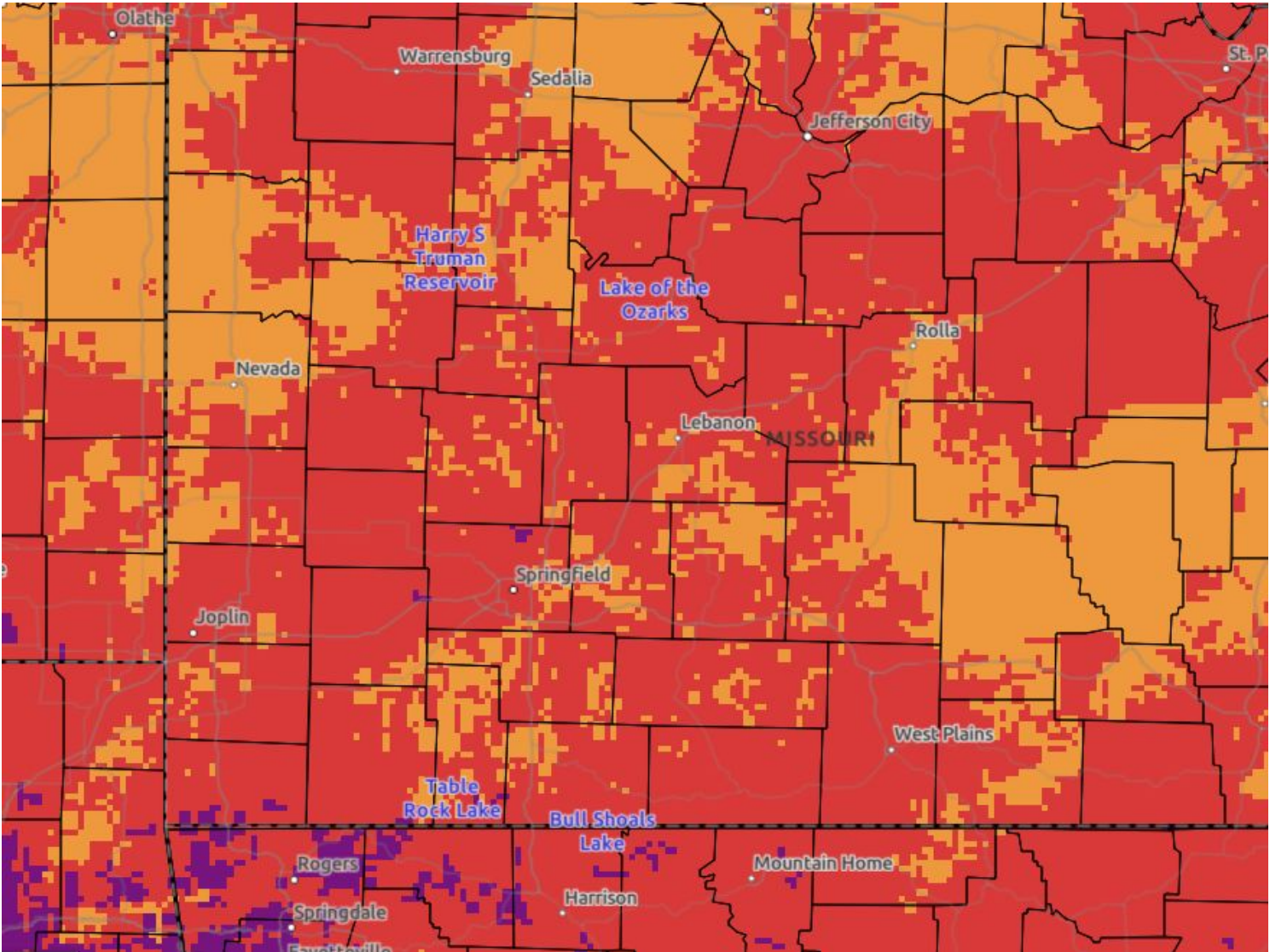


# NWS HeatRisk Forecast

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HeatRisk Today



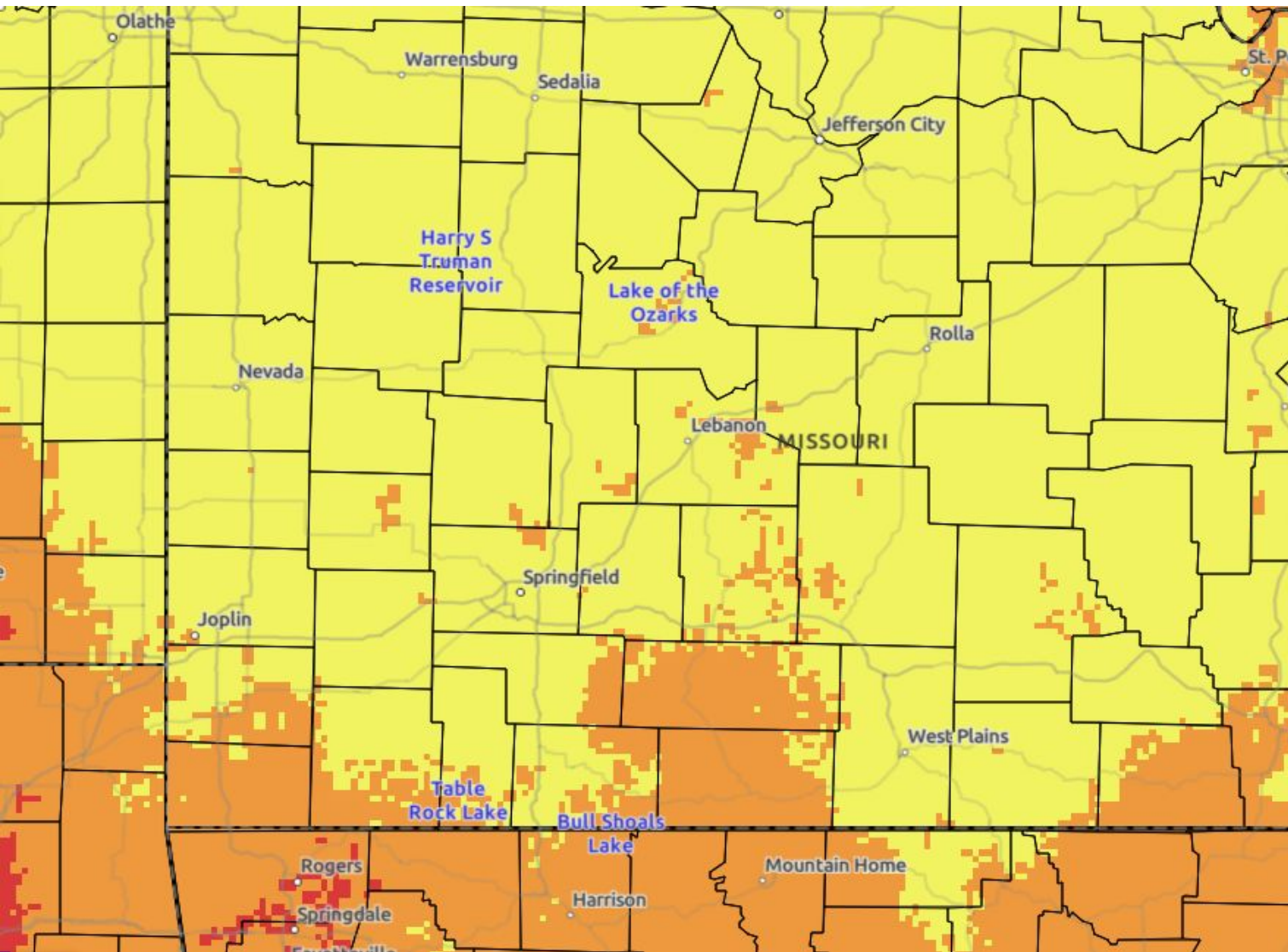
HeatRisk Tuesday



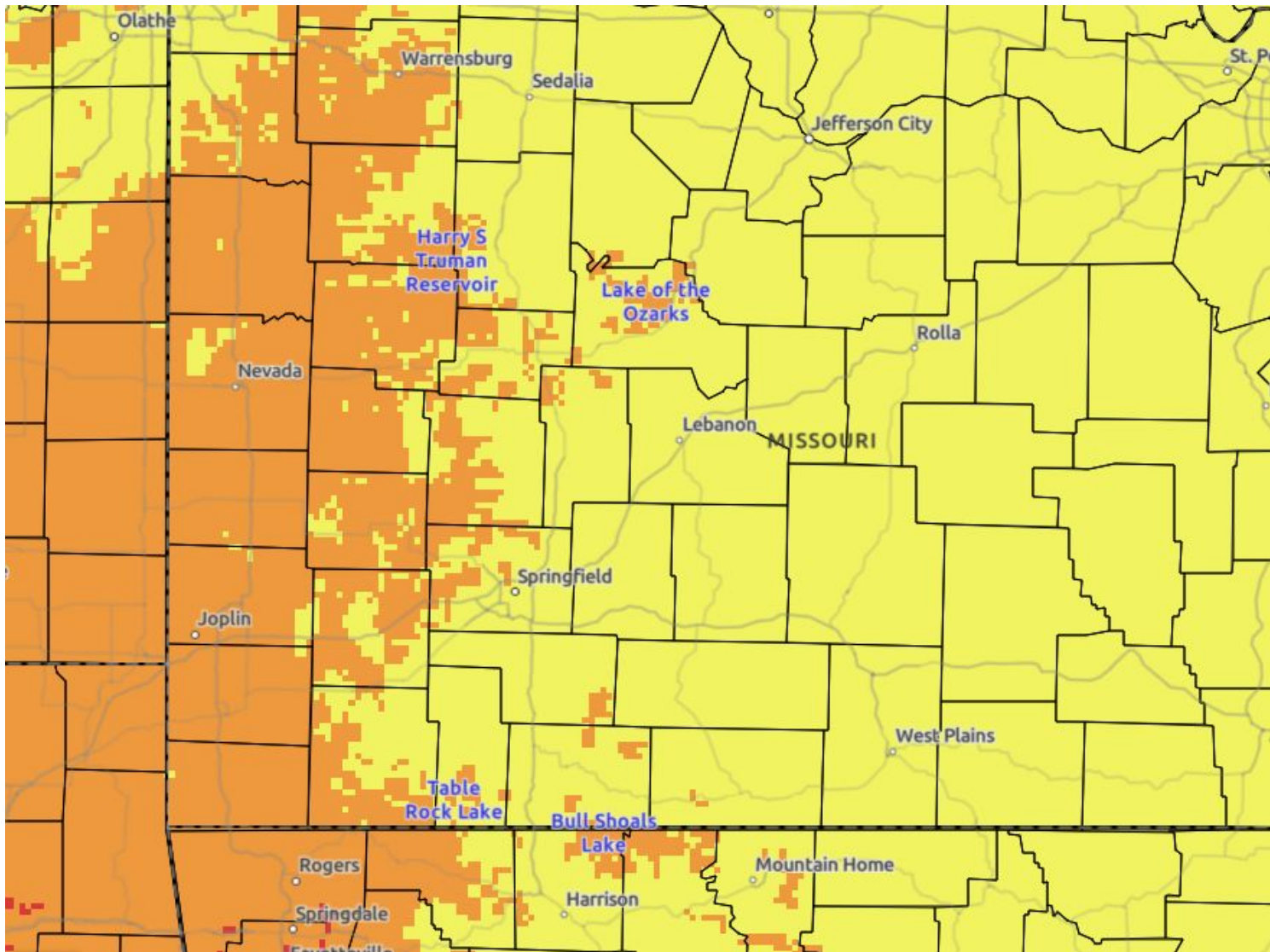


# NWS HeatRisk Forecast

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4:03 AM



HeatRisk Wednesday



HeatRisk Thursday

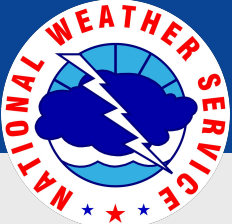




# Understanding NWS HeatRisk

| 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> |          |  |





# Isolated Thunderstorms Tuesday into Wednesday

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## Best Chances Overnight Tuesday into Wednesday Morning



### Key Message

Isolated strong to marginally severe thunderstorms will be possible Tuesday into Wednesday. **Uncertainty still exists** with the southern extent of the severe risk, so stay up to date with the latest forecasts.



### Hazards



Hail up to quarters

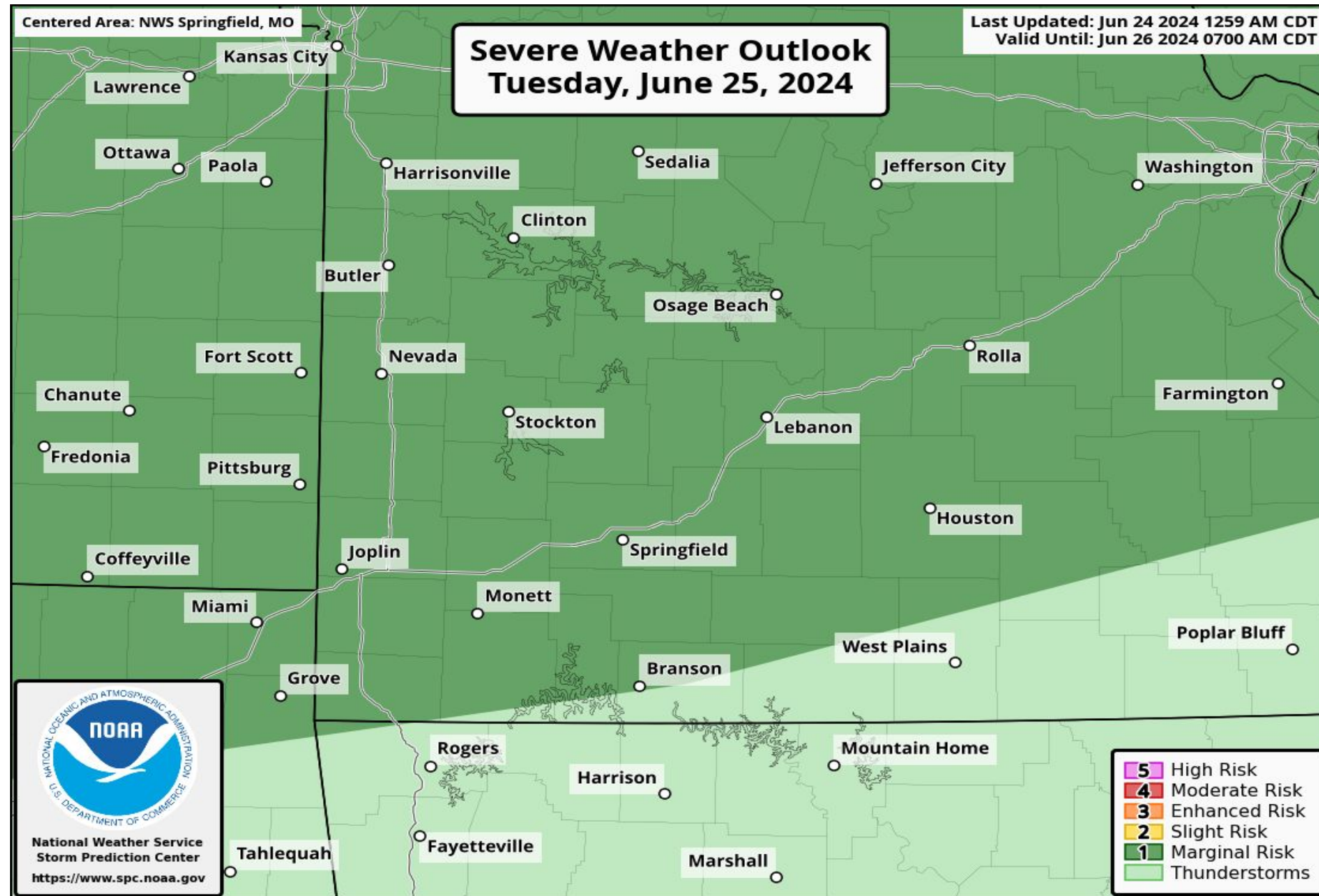


Damaging wind gusts up to 60 mph



### Actions

Remain Weather Aware and have multiple ways to receive weather information and warnings! Check the forecast for updates.



## Severe Weather Outlook Tuesday Night



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

National Weather Service  
Springfield, MO



# 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](#)

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| Heat Exhaustion  | Heat Stroke  |
|--|--|
| <b>ACT FAST</b> <ul style="list-style-type: none"><li>• Move to a cooler area</li><li>• Loosen clothing</li><li>• Sip cool water</li><li>• Seek medical help if symptoms don't improve</li></ul> | <b>ACT FAST</b><br><b>CALL 911</b> <ul style="list-style-type: none"><li>• Move person to a cooler area</li><li>• Loosen clothing and remove extra layers</li><li>• Cool with water or ice</li></ul> |
| <b>Symptoms:</b> <ul style="list-style-type: none"><li>Dizziness</li><li>Thirst</li><li>Heavy Sweating</li><li>Nausea</li><li>Weakness</li></ul>   | <b>Symptoms:</b> <ul style="list-style-type: none"><li>Confusion</li><li>Dizziness</li><li>Becomes Unconscious</li></ul>   |
|  |  |
| <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!



## 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  |          | Use air conditioners and stay in the shade |         | Drink plenty of water, even if not thirsty |
|   |          |  |         | Wear loose-fitting, light-colored clothing |

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