Key Messages

➔ A Heat Advisory is in effect from 12 PM - 7 PM today

➔ Heat index values of 100-110 degrees are expected across the area

➔ Strong to severe thunderstorms will be possible this evening into Thursday morning

➔ Primary hazards include hail up to golf balls, damaging wind gusts up to 75 mph, and localized heavy rainfall

Next Scheduled Briefing

➔ Wednesday afternoon by 4 PM
# Wet Bulb Globe Temperature

## For More Information:
https://digital.mdl.nws.noaa.gov/

<table>
<thead>
<tr>
<th>WBGT</th>
<th>HEAT INDEX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measured in the sun</td>
<td></td>
</tr>
<tr>
<td>Measured in the shade</td>
<td></td>
</tr>
<tr>
<td>Uses temperature</td>
<td></td>
</tr>
<tr>
<td>Uses relative humidity</td>
<td></td>
</tr>
<tr>
<td>Uses wind</td>
<td></td>
</tr>
<tr>
<td>Uses cloud cover</td>
<td></td>
</tr>
<tr>
<td>Uses sun angle</td>
<td></td>
</tr>
</tbody>
</table>

### Wet Bulb Globe Temperature (°F)

- **Low**: 80°F or below
- **Elevated**: 81°F to 85°F
- **Moderate**: 86°F to 90°F
- **High**: 91°F to 95°F
- **Extreme**: 96°F or above

Valid at: Wed, Jul 12 2023, 2 PM CDT
Issued: Jul 12 at 2:00 AM CDT

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U.S. Department of Commerce
# Understanding Wet Bulb Globe Temperatures

<table>
<thead>
<tr>
<th>WBGT / RISK</th>
<th>IMPACTS</th>
<th>ACTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>80-85 F / Low</td>
<td>Body stressed after 45 minutes</td>
<td>Take at least 15 minutes of breaks each hour if working or exercising in direct sunlight. Stay hydrated.</td>
</tr>
<tr>
<td>85-88 F / Moderate</td>
<td>Body stressed after 30 minutes. HEAT CRAMPS likely (painful contraction of muscles, weakness)</td>
<td>Take at least 30 minutes of breaks each hour if working or exercising in direct sunlight. Drink ½ to 1 quart of water per hour.</td>
</tr>
<tr>
<td>88-90 F / High</td>
<td>Body stressed after 20 minutes. HEAT EXHAUSTION likely (dizziness, nausea, vomiting, headache, fainting, disorientation, weakness)</td>
<td>Take at least 40 minutes of breaks each hour if working or exercising in direct sunlight. Reduce work, exercise intensity. Drink up to 1 quart of water per hour.</td>
</tr>
<tr>
<td>&gt; 90 F / Extreme</td>
<td>Body stressed after 15 minutes. HEAT STROKE likely (extremely high body temp, confusion, convulsions, unconsciousness, death)</td>
<td>Take at least 45 minutes of breaks each hour if working or exercising in direct sunlight. Suspend all strenuous outdoor activities. Drink at least 1 quart of water per hour.</td>
</tr>
</tbody>
</table>

Adapted from U.S Army and OSHA guidelines and recommendations
SPC Severe Outlook for Today

Slight Risk of Severe Thunderstorms

Overview
Strong to severe thunderstorms will be possible this evening into Thursday morning.

Actions
Be weather aware and ready to act. Have multiple ways to receive warning information!

Severe Threats

Large Hail
Up to golf balls

Damaging Wind
Up to 75 mph

Localized Heavy Rainfall
SPC Outlook Hazard Probabilities

Hail Probability

Wind Probability

Tornado Probability
Localized Flash Flooding Possible

This Evening through Thursday Morning

What

→ Widespread rainfall totals of 0.5 to 1.0 inches are expected this evening into Thursday morning.

→ Localized pockets up to 3-4 inches possible under repeated heavy downpours could result in flash flooding.

→ Additional rainfall expected Thursday night into Friday.
### Thunderstorm Timing Tonight

**Shower and Thunderstorm Chances**

<table>
<thead>
<tr>
<th></th>
<th>6 PM</th>
<th>8 PM</th>
<th>10 PM</th>
<th>12 AM</th>
<th>2 AM</th>
<th>4 AM</th>
<th>6 AM</th>
<th>8 AM</th>
<th>10 AM</th>
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</thead>
<tbody>
<tr>
<td><strong>Pittsburg, KS</strong></td>
<td>Yellow</td>
<td>Yellow</td>
<td>Orange</td>
<td>Orange</td>
<td>Orange</td>
<td>Yellow</td>
<td>Yellow</td>
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</tr>
<tr>
<td><strong>Joplin</strong></td>
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<td>Yellow</td>
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<tr>
<td><strong>Branson</strong></td>
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<td>Yellow</td>
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<td>Yellow</td>
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</tr>
<tr>
<td><strong>Springfield</strong></td>
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<td>Yellow</td>
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<tr>
<td><strong>Camdenton</strong></td>
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<tr>
<td><strong>Lebanon</strong></td>
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<tr>
<td><strong>Rolla</strong></td>
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<tr>
<td><strong>West Plains</strong></td>
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<td>Orange</td>
<td>Orange</td>
<td>Orange</td>
<td>Orange</td>
</tr>
</tbody>
</table>

*Note: Yellow indicates Low chance, Orange indicates Medium chance, and Gray indicates No chance.*
Additional Resources

For Additional Information

➔ NWS Springfield Webpage
➔ IDSS Point Forecasts
➔ Graphical Hazardous Weather Outlook
➔ CPC Day 8 to 14 Risk of Hazardous Temperatures
➔ Wet Bulb Globe Temperatures Forecast
➔ Missouri Cooling Centers Map
➔ NWS Heat Safety
➔ SPC Convective Outlooks
➔ Submit Storm Reports

Follow @NWSSpringfield

Heat Exhaustion

Heal Strok

ACT FAST
- Move to a cooler area
- Loose clothing
- Sip cool water
- Seek medical help if symptoms don’t improve

Dizziness
Thirst
Heavy Sweating
Nausea
Weakness

Confusion
Dizziness
Becomes Unconscious

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

Stay Cool, Stay Hydrated, Stay Informed!

Thunderstorms can escalate quickly.

Clear skies can quickly turn dark and ominous, whether due to pop-up thunderstorms or squall lines. Be prepared!

- Set up a way to get weather warnings on your phone
- When alerted to a storm, get inside a sturdy building immediately
- Stay away from windows once indoors
- If a building isn’t nearby, get inside a vehicle

weather.gov

National Weather Service
Springfield, MO