



The Ozark Ambassador

National Weather Service Springfield, Missouri

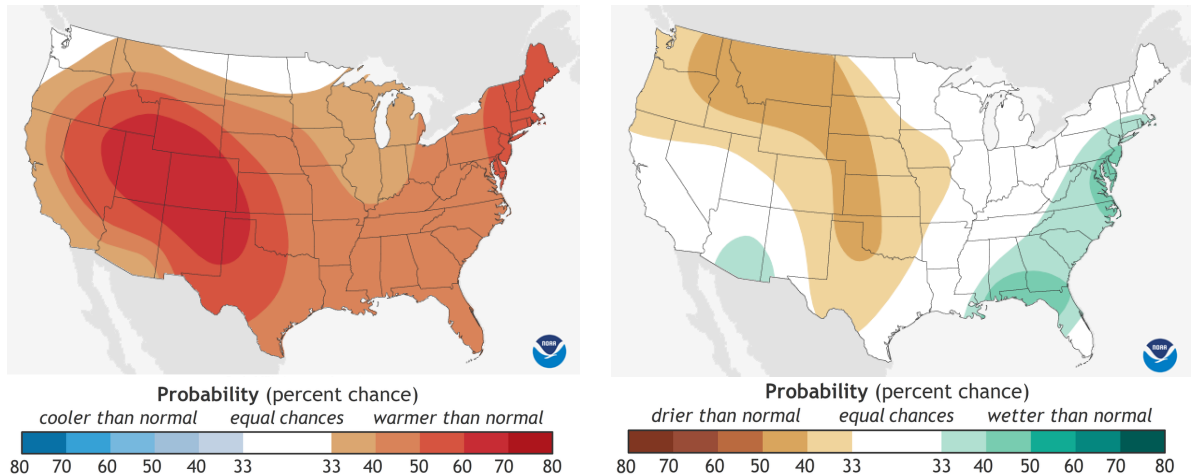


Preparing For Summer 2022

Inside this Issue:

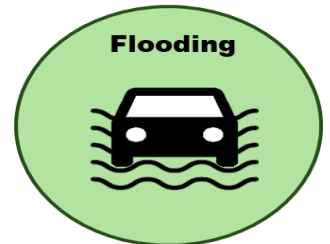
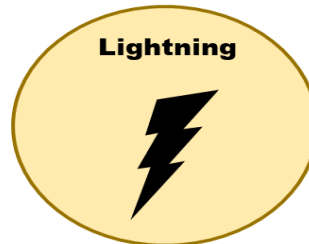
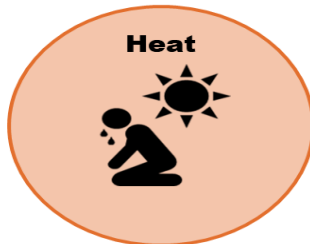
Preparing for Summer	1
Understanding Heat	2
Heat Safety	3
Helping Others in the Heat	4
Understanding Droughts	5
Outdoors and Weather Safety	6
Seguridad de Verano	7
Building a Weather-Ready Nation	8

Summer Outlook



The Summer 2022 outlook favors above normal temperatures and below normal to near normal precipitation. For more information visit: [Summer Climate Outlook](#).

Missouri Summer Safety Day June 3, 2022



Join NWS Springfield on Friday June 3, 2022 for Missouri Summer Safety Day. Additional information: [NWS Summer Safety](#).

Your Safe Place from Heat



Heat is the leading cause of weather-related deaths most years. You are generally safe indoors with the AC on, while staying hydrated. During extreme heat, stay inside and keep cool.

- Key Websites**
- [DSS Packet](#)
 - [Weather Story](#)
 - [Weather Prediction Center](#)
 - [Climate Prediction Center](#)
 - [Storm Prediction Center](#)



Understanding Heat

Wet Bulb Globe Temperature and Heat Index

HOW DOES WBGT differ from HEAT INDEX

WET BULB GLOBE TEMPERATURE

The Wet Bulb Globe Temperature (WBGT) is a parameter that estimates the effect of temperature, relative humidity, wind, and solar radiation on humans.

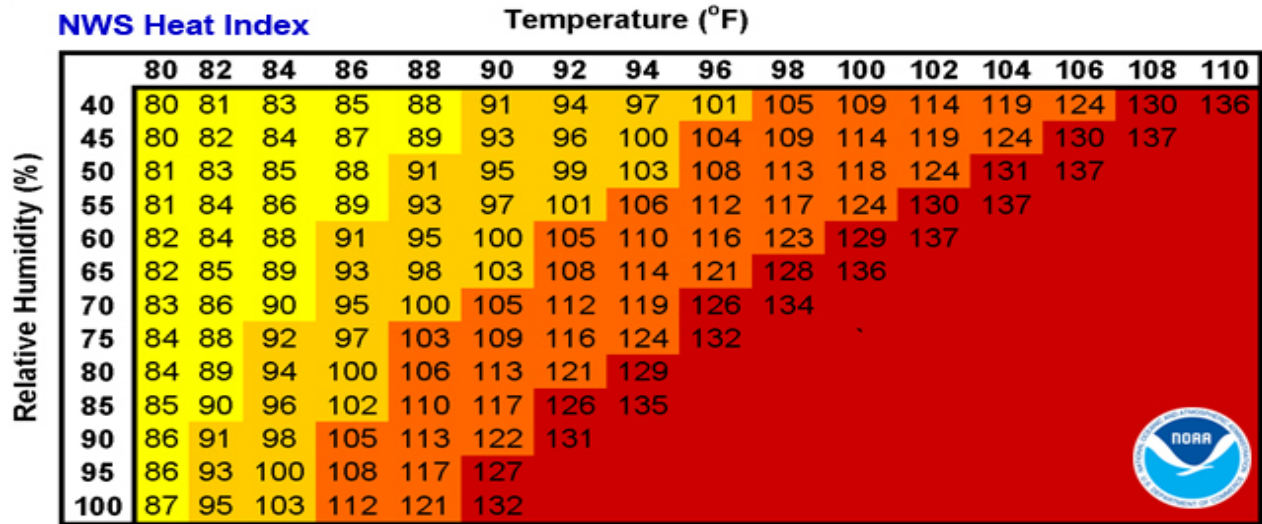
HEAT INDEX

The traditional measure of what the temperature feels like to the human body when relative humidity is combined with the air temperature, also known as apparent temperature.

	WBGT	HEAT INDEX
Measured in the sun	●	●
Measured in the shade	●	●
Uses temperature	●	●
Uses relative humidity	●	●
Uses wind	●	●
Uses cloud cover	●	●
Uses sun angle	●	●

[Wet Bulb Globe Temperature Forecast](#)

Heat Index Chart



Likelihood of Heat Disorders with Prolonged Exposure or Strenuous Activity

- Caution
- Extreme Caution
- Danger
- Extreme Danger

[Wet Bulb Globe Temperature and Heat Index Information](#)

NWS Springfield Heat Products	
Excessive Heat Watch	Issued for a heat index \geq 110 degrees or a heat index \geq 105 degrees for 4 days within 24 to 48 hours.
Excessive Heat Warning	Heat index around 110° or higher. Heat index \geq 105° for 4 or more consecutive days.
Heat Advisory	Heat index around 105° or higher. Heat index 100-104° for 4 or more consecutive days.

Heat Safety

Heat Exhaustion vs. Heat Stroke

Extreme heat is responsible for the highest number of annual deaths among all weather-related hazards.

Tips to keep in mind during high heat:

- Find air conditioning.
- Avoid strenuous activities.
- Wear light clothing.
- Check on family members and neighbors.
- Drink plenty of fluids.
- Watch for heat cramps, heat exhaustion and heat stroke.
- Never leave people or pets in a closed car.

[Heat Illness Safety Information](#)

Heat Exhaustion	Heat Stroke
<p>ACT FAST</p> <ul style="list-style-type: none"> • Move to a cooler area • Loosen clothing • Sip cool water • Seek medical help if symptoms don't improve 	<p>ACT FAST</p> <p>CALL 911</p> <ul style="list-style-type: none"> • Move person to a cooler area • Loosen clothing and remove extra layers • Cool with water or ice
<p>Dizziness</p> <p>Thirst</p> <p>Heavy Sweating</p> <p>Nausea</p> <p>Weakness</p>	<p>Confusion</p> <p>Dizziness</p> <p>Becomes Unconscious</p>
<p><i>Heat exhaustion can lead to heat stroke.</i></p> <p><i>Heat stroke can cause death or permanent disability if emergency treatment is not given.</i></p>	
<p>Heat exhaustion can lead to heat stroke.</p> <p>Heat stroke can cause death or permanent disability if emergency treatment is not given.</p>	
<p>Stay Cool, Stay Hydrated, Stay Informed!</p>	

Staying Safe in the Heat

Staying Safe in the Heat

- ☀ Limit outdoor activities
- ☀ Drink plenty of water
- ☀ Wear light clothing
- ☀ Wear sunscreen
- ☀ Work outdoors early or very late in the day

weather.gov/heat

Pet Safety

Never leave your pets in a parked car!

Safety Tips For Your Pets

- Watch the humidity
- Limit exercise on hot days
- Provide ample shade and water
- Don't rely on a fan
- Watch out for hot pavement

weather.gov/heat

PROTECT ALL THE SKIN YOU'RE IN

Use a Layered Approach for Sun Protection.

- Sunscreen works best when used with shade or clothes, and it must be re-applied every 2 hours and after swimming, sweating, or towel drying off.
- Use broad spectrum sunscreen with at least SPF 15 to protect exposed skin.
- Wear a hat, sunglasses, and protective clothing to shield skin.
- Seek shade, especially during midday hours.

weather.gov/heat

Heat Related Deaths ARE Preventable

LOOK BEFORE YOU LOCK

The temperature in your car can quickly become deadly!

Outside Temperature 80°

Inside 99° Time Elapsed: 10 Minutes	Inside 109° Time Elapsed: 20 Minutes
Inside 114° Time Elapsed: 30 Minutes	Inside 123° Time Elapsed: 60 Minutes

weather.gov/heat nhtsa.gov

Helping Others in Heat

Vulnerable Populations

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

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Helping Others

HELPING OTHERS: EXTREME HEAT



NEVER leave anyone (or pets) alone in a locked car



Monitor others exercising or playing sports, ensuring frequent breaks



Bring water to outdoor activities to keep everyone hydrated



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Understanding Droughts

Drought Impacts

Drought Impacts



Agriculture

Farms, ranches, and grazing lands suffer, and increases the cost of their products



Public Health

A decrease of water can lead to an increase of illness, disease, mortality rates, and adverse mental health



Ecosystems

Harms fish, wildlife, and plants, as well as the benefits these ecosystems provide



Wildfire Management

Dry, hot, and windy weather combined with dried out vegetation can lead to more large-scale wildfires



Manufacturing

Interruptions in the water supply can result in a reduction of productivity or closure of facilities



Energy

Production of all types of energy requires water, and drought can severely impact energy systems and prices

Drought Intensity

Drought Intensity Classification

	D0	Abnormally Dry	Going into drought, short-term dryness slowing planting, growth of crops and pastures; fire risk above average. Coming out of drought, some lingering water deficits, pastures or crops not fully recovered.
	D1	Moderate Drought	Some damage to crops, pastures, fire risk high; streams, reservoirs or wells low, some water shortage developing or imminent, voluntary water use restrictions requested.
	D2	Severe Drought	Crop or pasture loss likely, fire risk very high, water shortages common, water restrictions imposed.
	D3	Extreme Drought	Major crop/pasture losses, extreme fire danger, widespread water shortages or restrictions.
	D4	Exceptional Drought	Exceptional and widespread crop and pasture losses, exceptional fire risk, shortages of water in reservoirs, streams and wells causing water emergencies.

For more information check out the [National Drought Mitigation Center](#) and [National Integrated Drought Information System](#).

Outdoors and Weather Safety

Lightning

Your chance of being struck by lightning greatly increases when remaining outdoors during a thunderstorm.

Lightning can strike from up to 10 miles away.

When Thunder Roars, Go Indoors!

See a Flash, Dash Inside!

Some of the activities people were doing when they were recently struck by lightning include:

- Golfing
- Boating
- Running
- Grilling
- Walking
- Construction
- Riding
- Gardening
- Swimming

Your Safe Place from Lightning

Lightning strikes the U.S. 25 million times a year, which sometimes results in death or permanent injury. **You are safest indoors or inside a hard-topped and enclosed vehicle.** If you hear thunder or see lightning, take shelter immediately!

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Weather-Ready Outdoors

Weather-Ready for Nature?

- Flash Flooding**
Heavy rainfall can cause flooding in a flash. Use caution when hiking in canyons or camping near streams and rivers.
- Excessive Heat**
Bring extra water and remain hydrated. Use sunscreen and wear light, loose-fitting clothing. Take breaks in the shade.
- Lightning**
If you hear thunder or see lightning, go immediately to an enclosed building or hard-topped vehicle (if possible). Avoid isolated tall trees or ridge tops.

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Weather-Ready for Outdoor Sports?

- Heat**
Wear light, loose-fitting clothing, stay hydrated and take breaks in the shade. During excessive heat, avoid heavy activity and direct sunlight.
- Air Quality**
Stay inside during air quality alerts. Children, seniors, and those with health problems are especially at risk.
- Lightning**
If you hear thunder or see lightning, go immediately to an enclosed building or hard-topped vehicle.

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When Thunder Roars, Go Indoors!

STOP all activities.

Seek shelter in a substantial building or hard-topped vehicle.

Wait 30 minutes after the storm to resume activities.

www.lightningsafety.noaa.gov

SAFE FISHING

UNDERSTAND THE DANGERS OF LIGHTNING

- There are no specific warnings or advisories for lightning but all thunderstorms produce lightning.
- A lightning strike to a vessel can be catastrophic, especially if it results in a fire or loss of electronics.
- Boaters should use extra caution when thunderstorm conditions exist and have a plan of escape.

WEATHER.GOV

Seguridad de Verano

Seguridad Contra el Calor

AGOTAMIENTO DEBIDO AL CALOR

- Mareos
- Sudor excesivo
- Piel pegajosa, fresca y pálida
- Náuseas y vómitos
- Latidos del corazón rápidos y débiles
- Calambres

INSOLACIÓN

- Dolor de cabeza
- Piel no sudorosa
- Temperatura corporal por encima de 103°
- Piel caliente, roja, y seca
- Náuseas y vómitos
- Latidos del corazón rápidos y fuertes
- Pérdida del conocimiento

Llame al 9-1-1

- Descanse en un lugar fresco y sombreado
- Tome mucha agua y otros líquidos
- Báñese con agua fría o utilice compresas frías
- Tome acción inmediatamente para enfriar su temperatura corporal hasta que llegue la ayuda necesaria

Impactos del Calor: Poblaciones Vulnerables

Embarazadas

Recién Nacidos

Niños

Envejecientes

Enfermedad Crónica

Todos corren el riesgo de los peligros del calor extremo, pero estos grupos son más vulnerables que la mayoría. La edad y ciertas condiciones hacen que el cuerpo sea menos capaz de regular la temperatura.

⚠ NUNCA deje a nadie solo en un carro cerrado

❄ Use aire acondicionado y manténgase en la sombra

💧 Tome mucha agua, aun cuando no tenga sed

👕 Use ropa holgada y de colores claros

Seguridad Contra Rayos

Las probabilidades de ser impactado por un rayo aumentan grandemente cuando se queda al aire libre durante una tormenta eléctrica.

Los rayos pueden impactar desde hasta 10 millas de distancia de la tormenta.

¡Cuando escuche el trueno, busque refugio!

¡Si ve un relámpago, diríjase adentro!

Algunas de las actividades al aire libre que personas realizaban cuando fueron impactadas por un rayo incluyen:

Jugando golf

Navegando en barco

Corriendo

Parrillando

Caminando

Trabajando en construcción

Andando en moto

Realizando jardinería

Nadando

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Un Strike, Estás Fuera.

Cuando escuche el trueno, busque refugio.

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Listo para el Clima al Aire Libre

¿Listo Meteorológicamente para Actividades al Aire Libre?

Inundaciones Repentinas

Las lluvias fuertes pueden causar inundaciones en un segundo. Sea cauteloso al pasear por cañones o al acampar cerca de ríos y arroyos.

Calor Excesivo

Lleve agua adicional y manténgase hidratado. Utilice protector solar y vista ropa clara y ligera. Tome descansos en la sombra.

Lightning

Si escucha truenos o ve relámpagos, entre inmediatamente en un edificio o un vehículo cubierto (de ser posible). Evite árboles altos y aislados, y las cimas de las montañas.

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¿Listo Meteorológicamente para los Deportes?

Calor

Vista ropa clara y ligera, manténgase hidratado y tome descansos en la sombra. Durante calor excesivo, evite actividades extenuantes y el sol directo.

Calidad del Aire

Quédese adentro durante alertas por calidad del aire. Los niños, ancianos, y aquellos con problemas de salud están especialmente en riesgo.

Rayos

Si escucha un trueno o ve un relámpago, vaya inmediatamente a un edificio cerrado o a un vehículo cubierto.

weather.gov

Building a Weather-Ready Nation

Becoming a Weather-Ready Nation Ambassador

What do Weather-Ready Nation Ambassadors Do?

Promote Preparedness and Resiliency:

- ✓ Follow our social media and share our hazardous weather and safety posts.

Collaborate with the NWS:

- ✓ Let us know how we can help you and your community become more weather ready.

Serve as an example:

- ✓ Educate employees on workplace preparedness and encouraging personal preparedness at home.



[Click here to Learn More about Becoming an Ambassador](#)

Following the NWS and Summer Safety Campaign



Office: (417) 863-8028



contact.sgf@noaa.gov



weather.gov/springfield



[@NWSSpringfield](https://www.facebook.com/NWSSpringfield)



[@NWSSpringfield](https://twitter.com/NWSSpringfield)



[Youtube.com/NWSSpringfield](https://www.youtube.com/NWSSpringfield)



Summer Weather Safety Resources

[Heat](#)

[Drought](#)

[Lightning](#)

[Thunderstorm](#)

[Flood](#)

[Tornado](#)

Other Resources

[Missouri SEMA Heat Safety](#)

[Kansas Department of Health and Environment](#)

[CDC Tips for Preventing Heat Related Illness](#)

[NIOSH Heat Stress Safety](#)

[Missouri Cooling Centers](#)

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