



The Ozark Ambassador

National Weather Service Springfield, Missouri

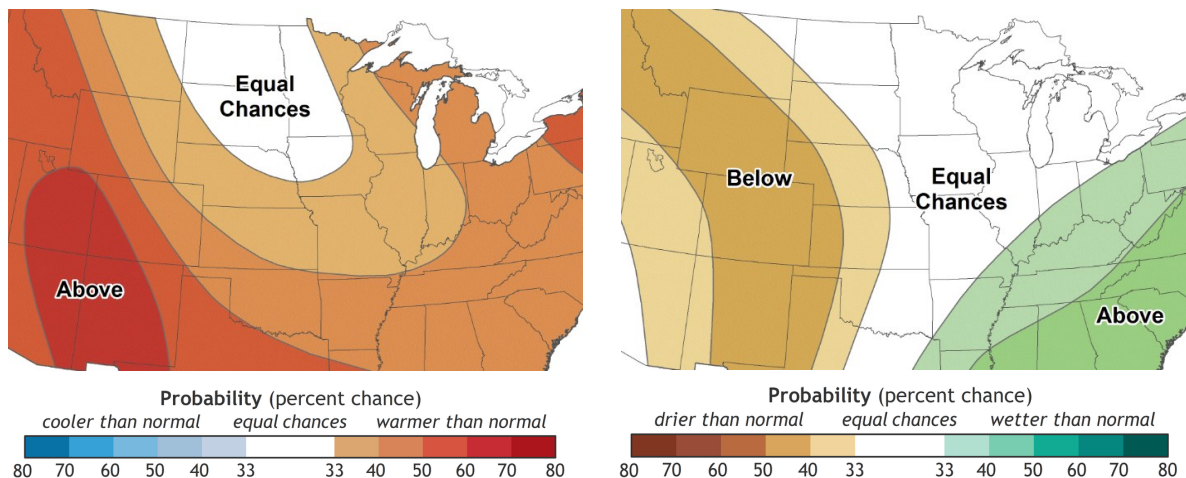


Preparing For Summer 2024

Inside this Issue:

Preparing for Summer	1
Understanding Heat	2
Heat Safety	3
Heat Impacts	4
Understanding Droughts	5
Outdoors and Weather Safety	6
Reporting Weather Information	7
Building a Weather-Ready Nation	8

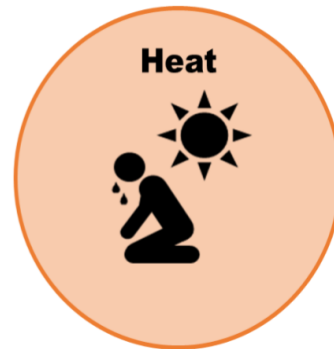
Summer Outlook



The Summer 2024 outlook slightly favors above normal temperatures and equal chances for below or above normal precipitation. For more information visit: [Climate Prediction Center](https://www.cpc.ncep.noaa.gov).

Missouri Summer Safety Day June 12, 2024

Wednesday, June 12, 2024



Join NWS Springfield and Missouri NWS offices on Wednesday June 12, 2024 for Missouri Summer Safety Day.

Additional information: [NWS Summer Safety](https://www.weather.gov/mo/summer-safety).

Ozark Ambassador Team

Kelsey Angle
Meteorologist in Charge

Steve Runnels
Warning Coordination
Meteorologist

Jason Schaumann
Science and Operations
Officer

Kyle Perez
Weather-Ready Nation
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Key Webpages

[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.

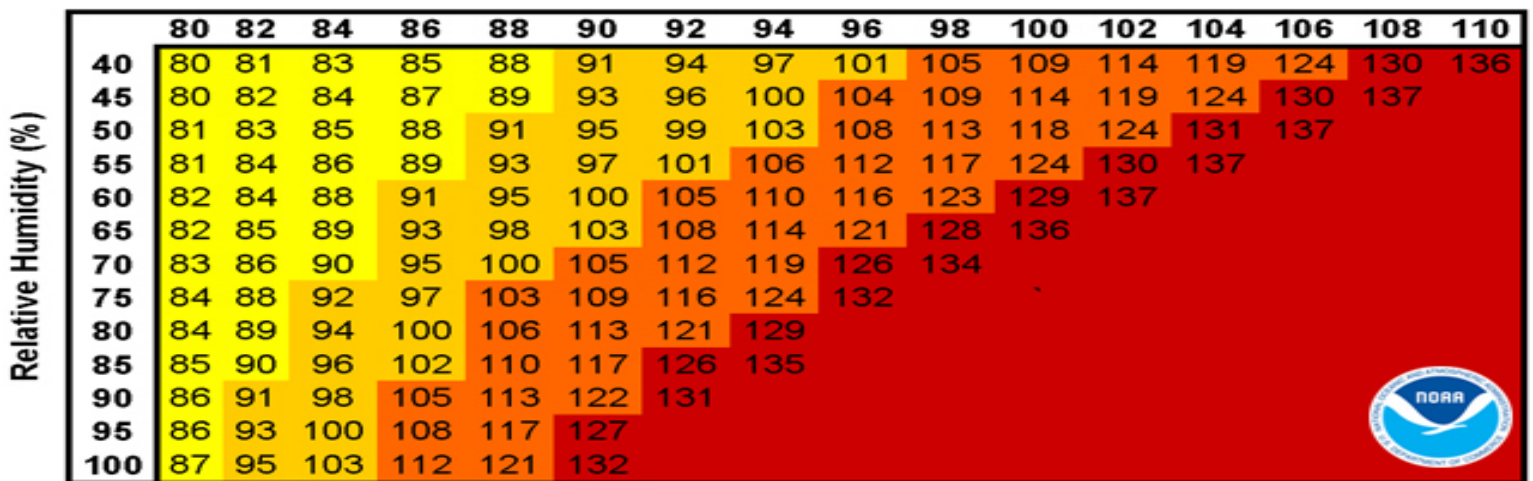
	WBGT	HEAT INDEX
Measured in the sun	●	●
Measured in the shade	●	●
Uses temperature	●	●
Uses relative humidity	●	●
Uses wind	●	●
Uses cloud cover	●	●
Uses sun angle	●	●

[Wet Bulb Globe Temperature Forecast](#)

Heat Index Chart

NWS Heat Index

Temperature (°F)



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
<div style="border: 1px solid #f4a460; padding: 5px; margin-bottom: 10px;"> <p style="text-align: center; font-weight: bold; color: #f4a460;">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 </div> <p>Dizziness</p> <p>Thirst</p> <p>Heavy Sweating</p> <p>Nausea</p> <p>Weakness</p>	<div style="border: 1px solid #e91e63; padding: 5px; margin-bottom: 10px;"> <p style="text-align: center; font-weight: bold; color: white;">ACT FAST</p> <p style="text-align: center; font-weight: bold; color: white; font-size: 1.2em;">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 </div> <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>	
<div style="display: flex; justify-content: space-between; align-items: center;">  <p>Stay Cool, Stay Hydrated, Stay Informed!</p>  </div>	

Staying Safe in the Heat

Extreme Heat Planning Timeline

Pre-Season

Start planning before hot weather arrives.

- ✓ Build an emergency kit
- ✓ Make a plan for power outages
- ✓ Become trained in first aid for heat-related emergencies
- ✓ Check that your A/C and fans are in working order

A Few Days Out

If the forecast calls for extreme heat, be ready.

- ✓ Gather food, water, and medication
- ✓ Make a list of friends and family to check on & help them prepare
- ✓ Know your local cooling shelters or other cool locations
- ✓ Reschedule outdoor events

During and After

Remain vigilant and stay informed.

- ✓ Stay in air conditioning and out of the sun if possible
- ✓ Check on friends, family, neighbors, and pets
- ✓ Drink plenty of water
- ✓ Take breaks and use a buddy system if working outdoors

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Heat Impacts

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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Protecting Yourself From Heat

PROTECT YOURSELF FROM HEAT & SUN



Drink plenty of **water** and avoid alcohol. Beverages with electrolytes can also help protect against heat stress.



Apply **sunscreen** (SPF 30 or higher) every two hours.



Wear lightweight, loose-fitting, and **light-colored clothing**.



Take regular breaks in the **shade**.



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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

Weather-Ready Outdoors

Weather-Ready for Boating?



Strong Winds

Dangerous wind can arrive well before the rain. Reduce speed and head to shore if alerted to high wind. Always wear a life jacket when on a boat.



Lightning

If you hear thunder or see lightning, it's time to stay in the cabin or head to shore.



Fog

If fog forms, slow down and turn on your lights. Listen for other boats around you or check radar.



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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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Know Before You Go!

A clear sky doesn't mean that you're out of the woods.

Check [weather.gov](https://www.weather.gov) to know if extreme heat, storms, or other hazards could be on the horizon.



Reporting Weather Information

Ways to Send Reports

Send Report to NWS

 Call 417-863-8028

 Text 417-830-7659

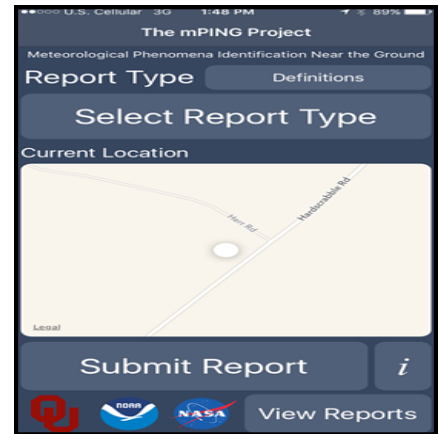
 contact.sgf@noaa.gov

[iNWS Storm Reports](#)



The screenshot shows the NOAA Storm Reports app interface. At the top, it says "NOAA Storm Reports Alerting the NWS to local weather". Below that, it lists the steps: "Report Type -> Details -> Location -> Review and Send". There is a dropdown menu labeled "Please select a report type" and "Back" and "Next" buttons. A link for "Privacy policy for weather reports" is at the bottom.

[mPING App](#)



The screenshot shows the mPING app interface. It is titled "The mPING Project" and "Meteorological Phenomena Identification Near the Ground". It has tabs for "Report Type" and "Definitions". The main screen says "Select Report Type" and "Current Location" with a map. At the bottom, there are buttons for "Submit Report" and "View Reports", along with logos for NOAA, NWS, and NASA.

Join CoCoRaHS Volunteer Program



What is CoCoRaHS?

The Community Collaborative Rain, Hail and Snow Network, is a non-profit, community based, network of volunteers who measure and report rain, hail and snow in their backyards. Additional [About CoCoRaHS info.](#)

Who uses CoCoRaHS?

CoCoRaHS is used by a wide variety of organizations and individuals. The National Weather Service, other meteorologists, hydrologists, emergency managers, city utilities (water supply, water conservation, storm water), insurance adjusters, USDA, engineers, mosquito control, ranchers and farmers, outdoor & recreation interests, teachers, students, and neighbors in the community are just some examples of those who visit our Web site and use our data.

Volunteers of All Ages Welcome!

Everyone can participate, both young, old, and in-between. The only requirements are an enthusiasm for watching and reporting weather conditions and a desire to learn more about how weather can affect and impact our lives. [Check out the volunteers wanted flyer.](#)

[Join CoCoRaHS Volunteer Program](#)

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](#)

Scan the QR code to Apply today!

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

[National Integrated Heat Health Information System \(NIHHIS\)](#)

[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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