

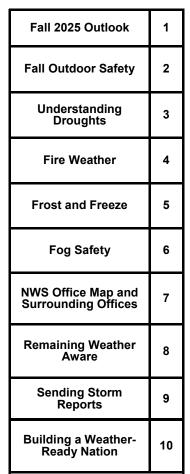
### The Ozark Ambassador



National Weather Service Springfield, Missouri

### **Preparing For Fall 2025**

### **Topics**



#### **Ozark Ambassador Team**

#### Jason Schaumann

Acting Meteorologist in Charge and Science and Operations Officer

#### Steve Runnels

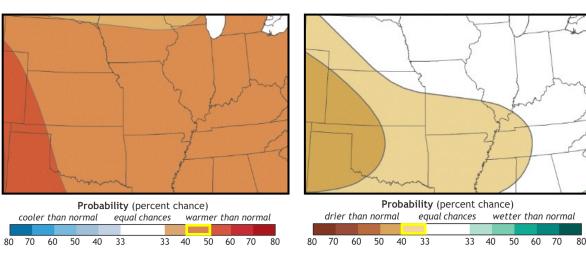
Warning Coordination Meteorologist

#### **Kyle Perez**

Weather-Ready Nation Ambassador Leader

weather.gov/springfield

### **Fall Outlook**



The Fall 2025 outlook slightly favors above normal temperatures and below normal precipitation. For more information visit: Climate Prediction Center.

# Fall 2025 When does Fall Begin?

### The Start of **Astronomical** vs. **Meteorological** Fall

- Based on the position of the sun relative to the Earth
  - Begins on the Autumnal Equinox, when the sun is directly overhead at the equator and the length of days and nights are equal
- ★ Varies annually, sometime September 21-23

- ★ Based on annual temperature cycles and lasts for the 3 months between the hottest and coldest quarters of the year
  - September, October, November
- ★ Consistently September 1st every year
- ★ Used for recordkeeping

### **Fall Outdoor Safety**

### **Schools and Sports**





### **Outdoor Recreation**





### **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

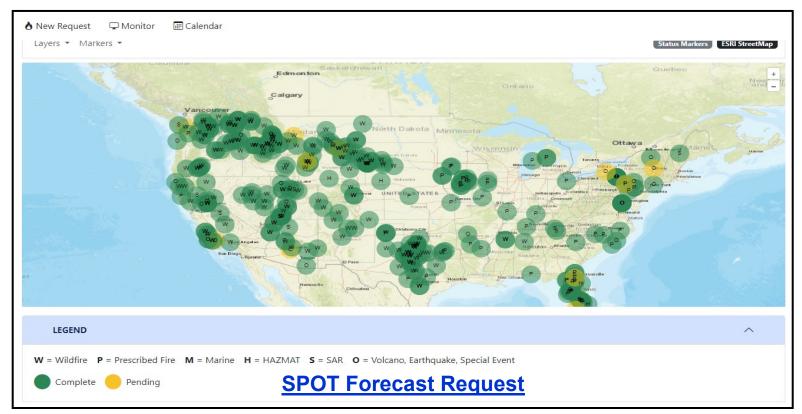
### **Drought Intensity**

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.

### **Fire Weather**

### **New SPOT Forecast Request**



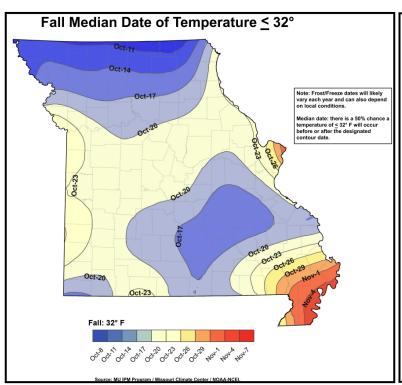
The NWS issues SPOT forecasts for prescribed burns or wildfires. The forecast provides hourly forecasts of various fire weather forecast parameters. Check out the new SPOT forecast page at the new link: <a href="mailto:spot.weather.gov/">spot.weather.gov/</a>. Additional information and resources on the SPOT forecast page can be found at: <a href="weather.gov/fire/training">weather.gov/fire/training</a>.

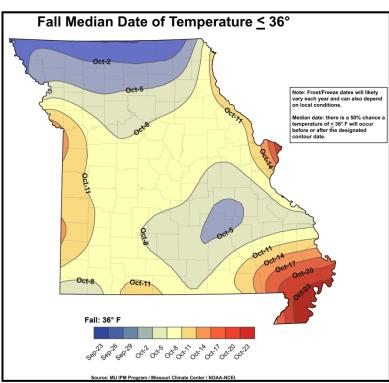




### **Frost and Freeze**

### **Missouri Temperature Climatology**





Frost and freeze dates vary depending on location each year. In general, as low temperatures approach 36 degrees or lower, the chance for frost increases. This varies from early to late October across the area. The NWS Hazard Simplification Project is consolidating **Hard Freeze and Freeze Watch/Warning** into **Freeze Watch/Warning** beginning this Fall.

# Freeze **Warning**

Temperatures of 32°F or colder for several hours over a widespread area during growing season. A hard freeze is when temperatures are below 28°F.

Plants left outdoors may be killed.

# Frost **Advisory**

Temperatures of 33 to 36°F with clear skies and light winds over a widespread area during growing season, which would promote the development of frost.

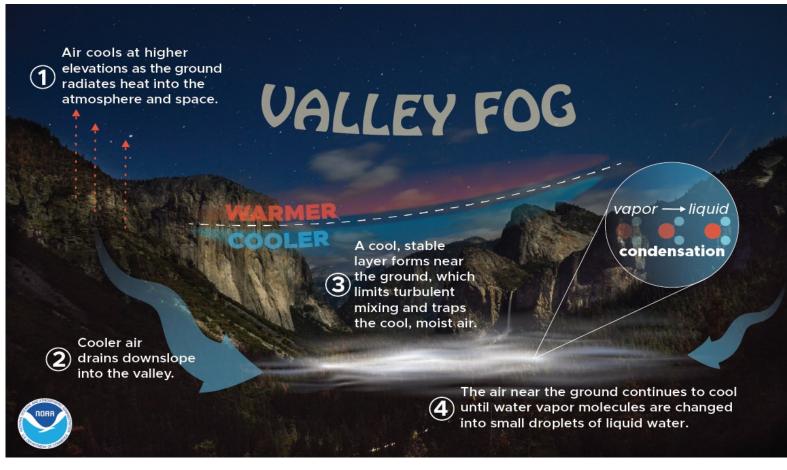
Plants left outdoors may be damaged.

### **Fog Safety**

### Driving in Dense Fog

When driving in dense fog, you have little time time to see hazards or other vehicles in the road. At freeway speeds, you only have a few seconds to react to objects that become visible in the road.



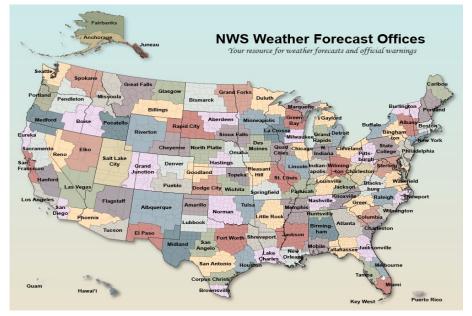


### **Knowing Your Location**

### **NWS Springfield, MO County Warning Area (CWA)**



NWS Springfield, Missouri County Warning Area (CWA) consists of three counties in extreme southeastern Kansas and thirty-four counties in southwestern Missouri and the Missouri Ozarks. Make sure you know where you located on the map!



Surrounding NWS Offices			
Pleasant Hill (Kansas City), MO			
St. Louis, MO			
Paducah, KY			
Little Rock, AR			
Tulsa, OK			
Wichita, KS			

### **Remaining Weather-Aware**

## STORM PLANNING TIMELINE

### A few days out

If the forecast calls for severe weather in a few days, start preparing now.



Make sure that you have emergency supplies



Know your safe places



Have a family communication plan

### The day before

The day before, forecast accuracy continues to improve.



Adjust plans



Make sure your phone can receive WEAs



Ensure your shelter is clean and accessible

### The day of

Remain vigilant and aware of any active Watches. A Warning may be issued at a moment's notice!



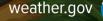
Remind your family of the communication plan



Know how to evacuate and/or get to safety from wherever you are



When a Warning is issued, you may only have seconds to take action!







### Wireless Emergency Alerts (WEA)

can alert you when weather threatens!



**WEAs are emergency messages** sent by government authorities to your mobile phone, reserved for life-threatening situations.



**Keep WEAs enabled on your phone.** It could save your life or the lives of others.



### **Sending Storm Reports**

### **Reporting Severe Weather**

#### Hail



Diameter of the largest stones. Looking for reports of near or above severe limits (1.00 in).

#### Wind



Measured speed and/or damage. Include tree or limb diameter, tree health, uprooted or snapped.

#### **Tornado**



Confirming funnel clouds, rotating wall cloud, or damage. Tell us why you can confirm it is rotating or on the ground?

Flood



Washed out or flooded roads, rain measurements. Are businesses or homes being impacted?

Reports that come in as the storm is in progress are much more valuable than reports that come in hours after the storm is done.

Can trigger or keep warnings active. NWS relays storm reports through warnings.

### **Measuring Hail**



Peas



Penny ¾"



Quarter 1"



Golf ball



Tennis ball 2 1/3"



Baseball 2 34"



Grapefruit 4 ½"

Compare the hail to common, everyday objects.

Remember to include measured hail size, a picture, time it occurred, and approximate location!

Make sure to compare to an object that is consistent in size, i.e. NO marbles!

### **Ways to Send Reports**

### **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 Fall Safety Resources



Office: (417) 863-8028



contact.sgf@noaa.gov



weather.gov/springfield



@NWSSpringfield



@NWSSpringfield



Youtube.com/NWSSpringfield



**Fall Weather Safety Resources** 

weather.gov/safety

#### **Additional Webpage Resources**

Weather Story
DSS Packet
GHWO
Point and Click Forecast
National Preparedness Month

Weather Prediction Center
Storm Prediction Center
Climate Prediction Center
National Hurricane Center
Aviation Weather Center

### **Follow NWS Springfield**







