



The Ozark Ambassador

National Weather Service Springfield, Missouri

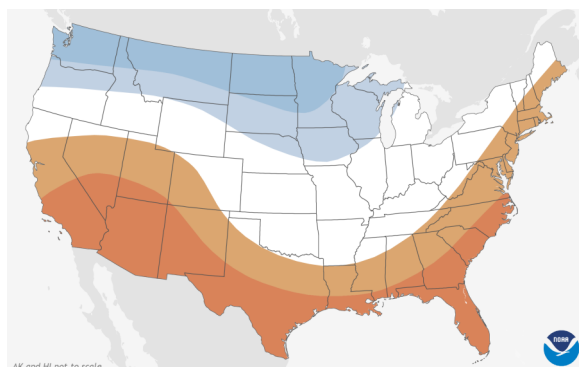


Preparing For Winter

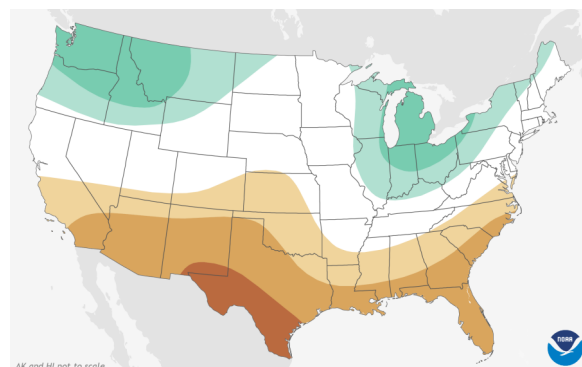
Winter 2022-2023 Outlook

Inside this Issue:

Preparing for Winter	1
Winter Weather Products and Science	2
Winter Weather Forecasting	3
Measuring Snow and Ice	4
Winter Weather Preparedness	5
Reporting and Observations	6
Building a Weather-Ready Nation	7



Probability (percent chance)
 cooler than normal equal chances warmer than normal
 80 70 60 50 40 33 33 40 50 60 70 80



Probability (percent chance)
 drier than normal equal chances wetter than normal
 80 70 60 50 40 33 33 40 50 60 70 80

The Winter 2022-2023 Outlook forecasts equal chances of above/below normal temperatures and precipitation for the region. For more information visit: [Winter 2022-2023 Climate Outlook](#).

Ozark Ambassador Team

Kelsey Angle
Meteorologist in Charge

Steve Runnels
Warning Coordination Meteorologist

Jason Schaumann
Science and Operations Officer

Kyle Perez
*Weather-Ready Nation Ambassador Leader
 Newsletter Editor*

Winter Weather Websites

[Probabilistic Forecasts](#)

[DSS Packet](#)

[Weather Story](#)

[Weather Prediction Center](#)

[Climate Prediction Center](#)

[Storm Prediction Center](#)

Missouri Winter Weather Preparedness Week

November 7 – 11, 2022



NATIONAL WEATHER SERVICE SPRINGFIELD, MISSOURI



Join us and our partners the week of November 7-11, 2022 for Winter Weather Awareness Week in the state of Missouri. Winter storms and cold temperatures can be extremely dangerous. We urge people to use this week to review the Winter hazards and their safety plans so they are prepared for the upcoming Winter season. Additional safety information can be found on [NWS Springfield Winter Weather Preparedness Webpage](#) and [SEMA Webpage](#).

Winter Products and Science

NWS Winter Weather Products

Winter Storm Watch	Winter Weather Advisory	Winter Storm Warning	Ice Storm Warning	Blizzard Warning
<p>Conditions are favorable for a winter storm event within the next 24 to 72 hours.</p> <p>Travel difficulties are possible.</p>	<p>Potentially dangerous winter weather is expected within the next 12 to 36 hours or is occurring.</p> <p>Travel difficulties are expected.</p>	<p>Dangerous winter weather is expected within the next 12 to 36 hours or is already occurring.</p> <p>Considerable travel problems are expected.</p>	<p>Significant ice accumulations are expected within the next 12 to 36 hours or are already occurring.</p> <p>Do Not Travel</p>	<p>Blizzard conditions are expected within the next 12 to 36 hours or are already occurring — including white out conditions.</p> <p>Do Not Travel</p>
Be Ready	Stay Aware	Take Action	Take Action	Take Action

NATIONAL WEATHER SERVICE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NWS Springfield, MD

Understanding Winter Precipitation

Winter Precipitation

SNOW
Snowflakes never melt.

SLEET
Droplets freeze and form ice before reaching the surface.

FREEZING RAIN
Rain freezes on contact with the surface.

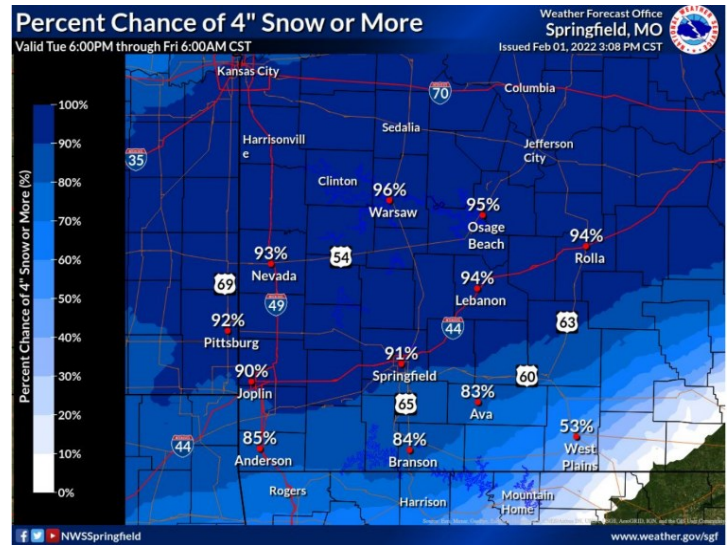
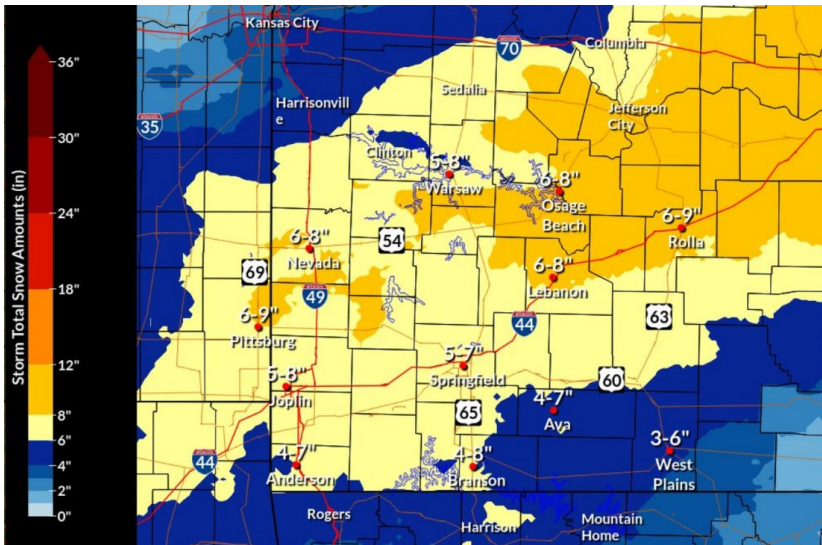
RAIN
Rain never refreezes.

■ At or Below 32°F ■ Above 32°F

weather.gov | NATIONAL WEATHER SERVICE

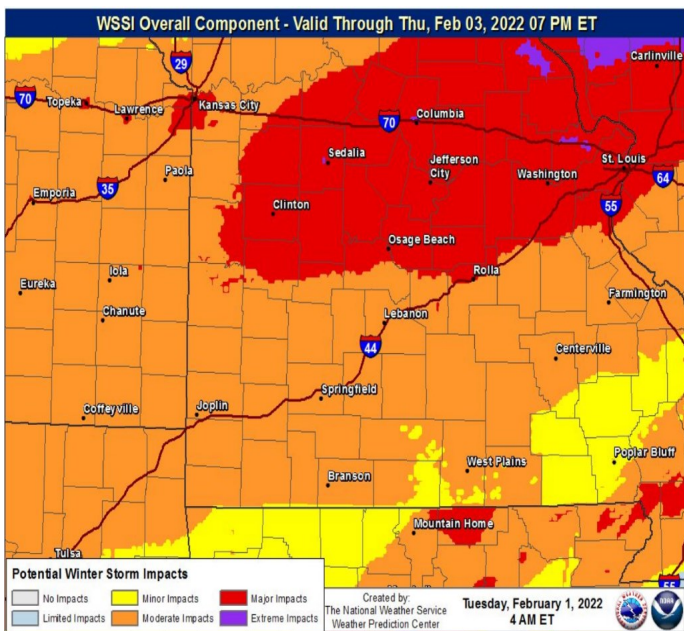
Winter Forecasting

Probabilistic Snowfall Forecasts



The purpose of these experimental probabilistic snowfall products is to provide customers and partners a range of snowfall possibilities, in complement to existing NWS deterministic snowfall graphics, to better communicate forecast uncertainties during winter weather events. For more information and probabilistic snowfall forecasts, check out [weather.gov/springfield/winter](https://www.weather.gov/springfield/winter).

Winter Storm Severity Index (WSSI)



Potential Winter Storm Impacts	
Winter Weather Area	Expect Winter Weather. • Winter driving conditions. Drive carefully.
Minor Impacts	Expect a few inconveniences to daily life. • Winter driving conditions. Use caution while driving.
Moderate Impacts	Expect disruptions to daily life. • Hazardous driving conditions. Use extra caution while driving. • Closures and disruptions to infrastructure may occur.
Major Impacts	Expect considerable disruptions to daily life. • Dangerous or impossible driving conditions. Avoid travel if possible. • Widespread closures and disruptions to infrastructure may occur.
Extreme Impacts	Expect substantial disruptions to daily life. • Extremely dangerous or impossible driving conditions. Travel is not advised. • Extensive and widespread closures and disruptions to infrastructure may occur. • Life-saving actions may be needed.

The WSSI has been developed to have a two-fold focus. The first is for use as a tool to assist NWS operational forecasters in maintaining situational awareness of the possible significance of weather-related impacts based upon the current official forecasts. The second is to enhance communication to external partners, media and the general public of the expected severity of potential societal impacts due to expected winter hazards and their distribution. Individual components can be analyzed which include: Snow Amount, Snow Load, Ice Accumulation, Flash Freeze, Blowing Snow, and Ground Blizzard.

- [Winter Storm Severity Index \(WSSI\)](#)
- [Rolling 24 Hour Winter Storm Severity Index \(WSSI\)](#)
- [Experimental Probabilistic Winter Storm Severity Index \(ProbWSSI\)](#)

Measuring Snow and Ice

Measuring Snow

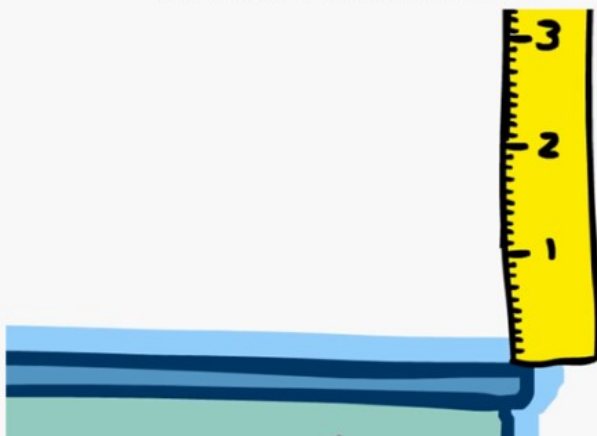
Six Basic Steps for Properly MEASURING SNOW

Accurate and timely snowfall measurements are extremely important to your National Weather Service office, your community, local media, and many others. Here are the six steps you need to know for measuring snow:

- 1 Supplies**
Ruler or yard stick
24" X 24" white board, flag
- 2 Planning**
Find an open area away from tall objects, but sheltered from wind
- 3 Set-up**
Set up before snow begins
Put your board out and mark it with the flag
- 4 Measuring Snow**
Record your total to the nearest tenth of an inch
Wipe the board off after measuring
Measure once daily at the same time, after measuring place the board on top of snow
- 5 When Snow Stops**
Measure as soon as the snow stops to avoid lower totals due to melting, settling and drifting
- 6 Reporting**
weather.gov social media
SEND us your report!

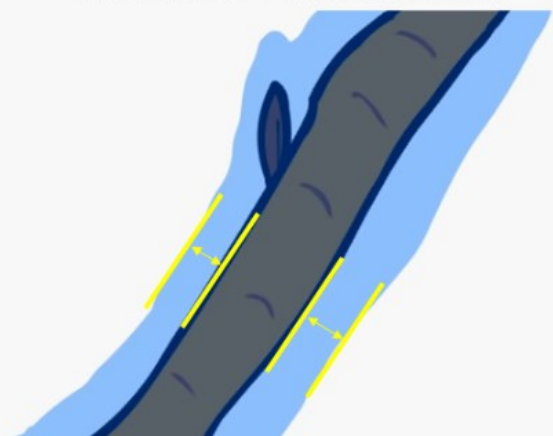
Measuring Ice

Flat Ice Measurement



Find a flat surface that has been undisturbed from the surrounding environment or other objects. Measure ice accumulation with a ruler.

Radial Ice Measurement



Break off a small twig or branch from a tree in which ice has accumulated. Measure the thickness of ice on each side of the branch with a ruler. Then average the two measurements to get the total ice accumulation.

All measurements should be rounded to the nearest 0.1".
Any measurements below 0.1" are reported as a trace.

Winter Weather Preparedness

Winter Driving and Preparedness

ICE & SNOW, TAKE IT SLOW

Each year in the U.S., there are over **1,000 deaths** and **100,000 injuries** due to vehicle crashes during winter weather.

DID YOU KNOW?



Clean off your vehicle before driving.
Flying snow from cars causes accidents.



Keep it slow, and don't use cruise control.
Roads can be slick even if they just look wet.



Leave extra distance between vehicles.
Stay especially far from snow plows.



weather.gov

Vehicle Winter Preparedness Checklist

- | | | |
|---|--|---|
| <input type="checkbox"/>  Flashlight & Extra Batteries | <input type="checkbox"/>  Blankets/Sleeping Bag | <input type="checkbox"/>  Extra Clothing
Hats, Mittens, Parkas, Boots |
| <input type="checkbox"/>  First Aid Kit | <input type="checkbox"/>  Non-Perishable Food
Granola Bars, Dried nuts, etc. | <input type="checkbox"/>  Sand/Kitty Litter
Used for Traction |
| <input type="checkbox"/>  Snow Shovel | <input type="checkbox"/>  Bottled Water | <input type="checkbox"/>  Cell Phone & Charger |
| <input type="checkbox"/>  Ice Scraper with Brush | <input type="checkbox"/>  Booster Cables | <input type="checkbox"/>  Flares/Triangles & other Bright Objects |

Being Prepared for Cold Weather

DRESSING FOR COLD WEATHER

Adding layers will help keep you warm as the temperature drops

<h4>CHILLY</h4>  <ul style="list-style-type: none"> 1-2 layers long layer outer layer to keep out wind, rain warm shoes water proof 	<h4>COLD</h4>  <ul style="list-style-type: none"> 2-3 layers gloves warm hat outer layer to keep out wind, wet snow boots water proof 1-2 layers 	<h4>EXTREME COLD</h4>  <ul style="list-style-type: none"> 3+ layers 1 insulating gloves warm hat face mask outer layer to keep out wind boots water proof 2+ layers
--	---	---

weather.gov/cold


Sending Winter Weather Reports


Ways to Send Reports

Send Report to NWS

 Call 417-863-8028
Text 417-830-7659

 contact.sgf@noaa.gov

 @NWSSpringfield

 @NWSSpringfield

[iNWS Storm Reports](#)



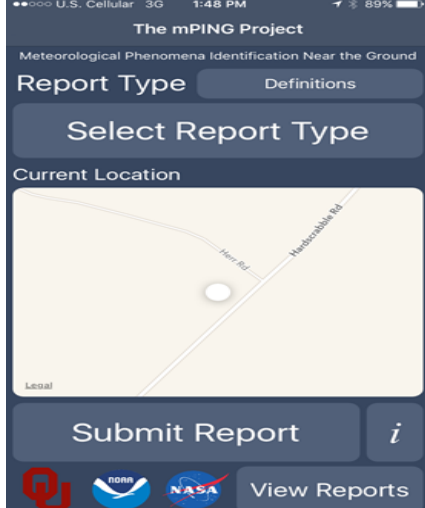
Storm Reports
Alerting the NWS to local weather

Report Type -> Details -> Location -> Review and Send

Please select a report type ▼

[Privacy policy for weather reports](#)

[mPING App](#)







The mPING Project
Meteorological Phenomena Identification Near the Ground

Report Type Definitions

Select Report Type

Current Location

Submit Report 

   View Reports

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](#)

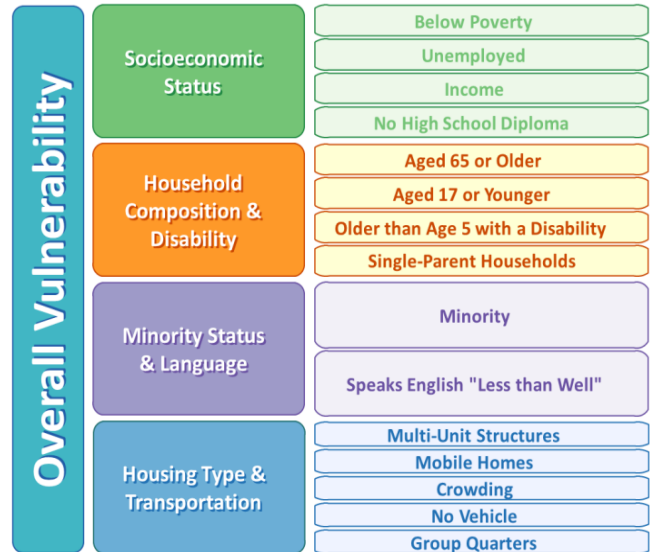
Building a Weather-Ready Nation

Vulnerable Populations Initiative

- Goal 1:** Identify vulnerable populations in the NWS Springfield area.
- Goal 2:** Build relationship/partnership within the vulnerable population community of interest. Identify a point of contact.
- Goal 3:** Take a five step approach to relationship building **TRUST** within the vulnerable population:
1. Teamwork
 2. Respect
 3. Understand
 4. Service
 5. Task

Resources:

- [FEMA Resilience Analysis and Planning Tool \(RAPT\)](#)
- [CDC Social Vulnerability Index \(SVI\)](#)
- [Neighborhoods at Risk](#)



2022 WRN Ambassador of Excellence Award



Camden County, MO Emergency Management Agency (CEMA) continues to exemplify itself as a leader in the Weather-Ready Nation Ambassador community. In particular, CEMA has been a leading example of preparedness on social media platforms over the last year. This effort includes engaging and educating the community on hazardous weather safety through the sharing of NWS safety messages. Further, CEMA has illustrated to peers the value of EventReady planning at a large amphitheater to mitigate impacts of hazardous storms. CEMA is a valuable partner in building a Weather-Ready Nation and serves as an example for future ambassadors.

Pictured: *Camden County EMA Director Samantha Henley (left) and NWS Springfield Meteorologist Kyle Perez (right)*

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

Scan the QR code to Apply today!



Follow NWS Springfield

