



ALABAMA WINTER WEATHER AWARENESS WEEK

November 16th to November 20th, 2009

The National Weather Service, in cooperation with the Alabama Emergency Management Agency, will observe the week of November 16th through November 20th, 2009, as Winter Weather Awareness Week in the state of Alabama, as proclaimed by Governor Bob Riley.

While the frequency of extreme winter weather events is relatively small in Alabama, winter weather can cause death, injury, and property damage. With the start of each new season, preparation is the key to lessening the dangers and hazards associated with winter weather. Please join us in promoting winter weather safety during this years' Winter Weather Awareness Week.





Welcome to the Winter Season!

Winter Weather Awareness Week is one of several annual awareness campaigns intended to draw attention to local weather hazards, and this week highlights winter threats like ice, snow, and extreme cold. While the National Weather Service leads this event, many important partners contribute to this worthwhile public service venture. Specifically, the National Weather Service would like to recognize the Alabama Emergency Management Agency for their significant contributions toward the success of the 2009 Alabama Winter Weather Awareness Week.

The week will officially kick-off with a media conference on Monday, November 16th, at 10:00 AM at the Madison County Emergency Management Agency's Emergency Operations Center, at 320 Fountain Drive, in Huntsville. Representatives from the National Weather Service, the Alabama Emergency Management Agency, and the North Alabama Emergency Management Agencies will be on hand to officially recognize the beginning of the 2009 Alabama Winter Weather Awareness Week.



Did You Know?

*Winter facts from
around the state*

During the record cold outbreak of January 1966, the temperature plummeted to 27 degrees below zero in New Market on January 30th. This is the coldest temperature in the state since records began. Many locations (including Huntsville and Muscle Shoals) recorded at least three consecutive days with morning lows below zero. Prior to the cold air arriving that year, a significant snowstorm affected Northern Alabama dumping 7.2 inches of snow in Huntsville, 8.0 inches in Cullman, 8.4 inches in Valley Head, and 9.0 inches in both Bridgeport and Muscle Shoals.

North Alabama is not the only place in the state susceptible to the extreme cold. An outbreak of bitterly cold temperatures occurred December 22-25, 1989, killing five people across the state. Low temperatures as far south as the Gulf Coast dipped into the single digits. Daytime highs during this time only reached into the teens. Brisk northerly winds created wind chills ranging from 0 degrees to 15 degrees below zero across the entire state.

One event that nearly every Alabamian remembers was the "Storm of the Century" which occurred in March 1993. Much of the state was completely paralyzed when more than one foot of snow blanketed portions of the state. The strong winds that accompanied the heavy, wet snow downed trees and power lines, which left many residents without power for several days. Record cold followed this significant winter storm. Following the event, 14 people died and an unknown number of people were injured. Property damage exceeded \$50 million. During the winter storm, the American Red Cross in Alabama sheltered over 12,000 people in 108 facilities and served over 36,000 meals.

Winter Weather Safety Tips

In General...

Keep ahead of a winter weather by listening to the latest weather warnings and bulletins on NOAA Weather Radio, local radio or television. Be alert to changing conditions and avoid unnecessary travel.

In the home...plan ahead!

Check battery powered equipment, and stock extra batteries for flashlights and a portable television or radio. Also, check emergency cooking facilities.

Check your food and stock an extra supply. Your supplies should include food that requires no cooking or refrigeration in case of power failures. Consider high energy foods such as dried fruit or candy. Don't forget prescription medicines, first aid supplies, and other specialty items.

Check your supply of heating fuel, but prevent fire hazards due to overheated coal or oil-burning stoves, fireplaces, heaters, or furnaces. Emergency responders can be hampered by extreme weather conditions, and may not be able to respond quickly—arrange for emergency heat in case of an extended power failure.

Stay indoors during storms and cold snaps. Elderly persons, children, and those in bad health may be especially susceptible to cold weather. Avoid overexertion, especially if shoveling snow.

Dress to fit the season. Loose, layered clothing will keep you warm, and a hat and mittens will protect your extremities.

Winterize your home by caulking around openings, installing storm windows, and adding insulation.

Don't forget your pets or livestock. Move animals to sheltered areas. For pets, bring them indoors or provide some form of heat. Provide fresh water since many pets die from dehydration in winter storms.

In your vehicle...be prepared!

Get your car winterized before the storm season begins. Maintain a checklist of the preparation required. Keep water out of your fuel by keeping your gas tank full.

Carry a winter storm car kit, especially if you plan cross country travel or anticipate travel in northern states. Items to consider include a mobile phone and charger, blankets or sleeping bags, flashlights and batteries, first aid kit, non-perishable foods, extra clothing, window scraper, water, road maps, small shovel, and kitty litter or sand for traction.

If the storm exceeds or even tests your driving limitations, seek available shelter immediately. Plan your travel and select primary and alternate routes.

Check the latest weather information before departing, and drive carefully and defensively.

Avoid traveling alone, and be sure someone knows your travel plans and route of travel.



Winter Weather Terminology

Winter Storm Warning: Issued when a combination of significant accumulations of snow, freezing rain, or sleet is expected. Winter Storm Warnings are usually issued within 24 hours before the event is expected.

Winter Storm Watch: Alerts the public to the potential for winter storm conditions within the next 12 to 36 hours.

Winter Weather Advisory: Issued when accumulations of snow, freezing rain/drizzle, or sleet are expected to cause hazardous driving conditions.

Major Cities Lowest Temperatures		
<u>City</u>	<u>Temp</u>	<u>Date</u>
Huntsville	-11 F	Jan. 30, 1966 & Jan. 21, 1985
Birmingham	-10 F	Feb. 13, 1899
Montgomery	-5 F	Feb. 13, 1899
Mobile	-1 F	Feb. 13, 1899

Wind Chill Advisory: Issued when the wind chill temperatures are expected to range from zero to ten below zero.

Wind Chill Warning: Issued when wind chill temperatures are expected to be colder than ten below zero.

Most Snow in 24 Hours		
<u>City</u>	<u>Amount</u>	<u>Date</u>
Huntsville	11 in.	Dec. 31-Jan. 1, 1964
Birmingham	13 in.	Mar. 12-13, 1993
Montgomery	11 in.	Dec. 5-6, 1886
Mobile	6 in.	Feb. 14-15, 1895

Snow Flurries: Snow falling for short durations with very little or no accumulation.

Snow Showers: Snow falling at varying intensities for a brief time. Some accumulation is possible.

Significant (heavy) Snow: In Alabama, snow accumulations greater than 2 inches in 12 hours.

Sleet: Rain drops that freeze into ice pellets before reaching the ground. Sleet usually bounces when hitting a surface and does not stick to objects. However, it can accumulate like snow and cause a hazard to motorists and pedestrians.

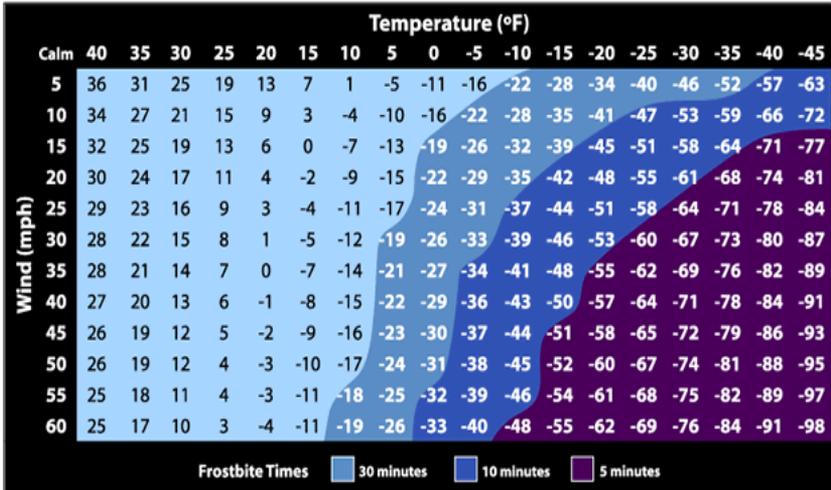
<u>City</u>	<u>Average Snowfall</u>
Huntsville	2.5 in
Birmingham	1.4 in
Montgomery	0.5 in
Mobile	0.4 in

Freezing Rain: Rain that falls onto a surface with a temperature below freezing. This causes it to freeze to surfaces, such as trees, cars, and roads, forming a coating or glaze of ice. Even small accumulations of ice can cause a significant hazard.

Freeze Dates: Means and Extremes				
<u>City</u>	<u>Avg</u>	<u>Record</u>	<u>Avg</u>	<u>Record</u>
Huntsville	Nov 5	Oct 9, 2000	Mar 30	May 2, 1909
Birmingham	Nov 8	Oct 18, 1948	Mar 23	Apr 23, 1986
Montgomery	Nov 17	Oct 20, 1989	Mar 8	Apr 13, 1940
Mobile	Nov 26	Oct 28, 1957	Feb 27	Apr 13, 1940

Interpreting “Wind Chill”

As wind speeds increase during the winter months, they can make the temperature outside feel even colder than it actually reads on a thermometer. This cooling factor is given a name—the wind chill effect.



To determine the wind chill using the provided chart, find the actual outside temperatures on the top line, and read down the column on the left corresponding to the wind speed. Where the row and column intersect, read the will chill value. The colors indicate how quickly frostbite can occur.





NOAA Weather Radio

The NWS utilizes NOAA Weather Radio All Hazards as a 24-hour a day, 7-day a week source of weather information. While routine programming offers the latest forecast, hazardous weather outlook, and current observations, the broadcast cycle is automatically updated whenever a watch, warning, or other significant weather statement is issued by any of the NWS offices in Alabama.

NOAA Weather Radio All Hazards is broadcast on certain unique frequencies, and only radios capable of receiving very high frequencies (VHF) will receive the programming. Refer to the chart below for a list of frequencies used in Alabama, as well as the locations of 21 transmitters across the state. While the closest transmitter to your location may be in the next county, approximately 95 percent of people in Alabama are within the listening range.

When hazardous winter weather threatens Alabama, local NWS offices will issue winter (weather) watches, warnings and advisories. These products will automatically play on your local NOAA Weather Radio broadcast, and when certain weather-related warnings are issued, you radio will sound an audible alarm alerting you of the impending event.

Arab	162.525	Jackson	162.500
Auburn	162.525	Meridian, MS	162.550
Birmingham	162.550	Mobile	162.550
Columbus, GA	164.400	Montgomery	162.400
Cullman	162.450	Mt. Cheaha	162.475
Demopolis	162.475	Oneonta	162.425
Dozier	162.550	Selma	162.450
Florence	162.475	Texasville	162.475
Fort Payne	162.500	Tuscaloosa	162.400
Greenville	162.425	Winfield-Guin	162.525
Huntsville	162.400		

Severe weather during the Winter months

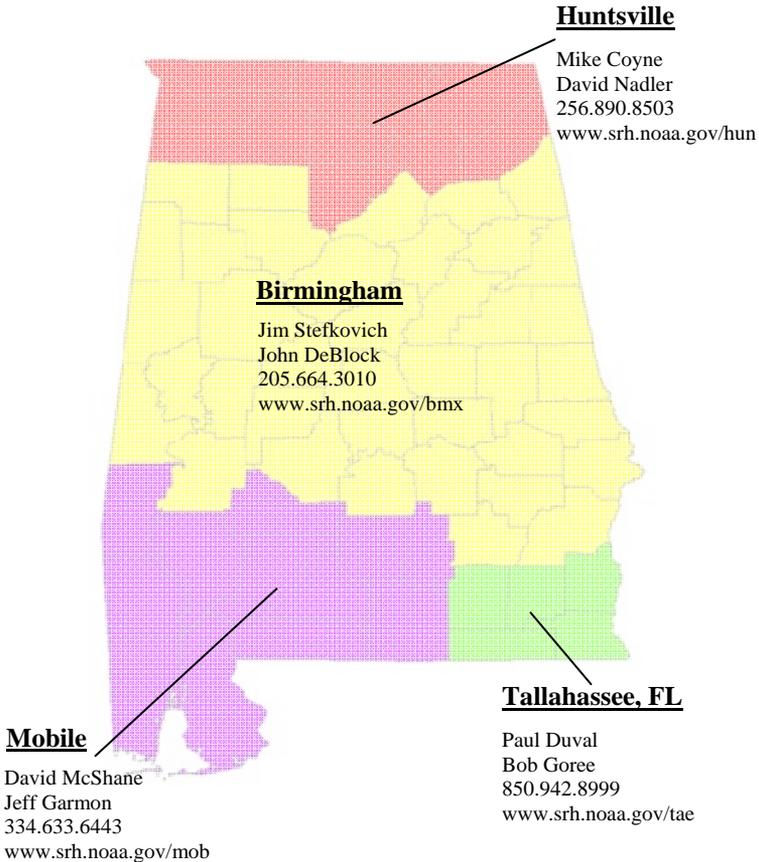
Severe thunderstorms and deadly tornadoes can occur during the winter months of December, January and February. In the last 10 years (1999-2008), 88 tornadoes have hit the state of Alabama in the winter months, an average of nearly 1 per year. The 2008 Super Tuesday (February 5-6) tornado outbreak is a perfect example supporting this potential threat. This event caused 57 fatalities across the Mid South and Tennessee Valley, including 5 in Alabama. Of the 87 tornadoes that touched down across nine states, there were five violent (EF4 -5) tornadoes, two raked across North Alabama during the early morning hours of February 6.



Damage from February 6th EF-4 tornadoes in Lawrence and Jackson Counties

Looking For More Information?

Several National Weather Services Offices serve Alabama, working together to provide continuous weather forecast and warning information no matter where you are in the state. Each of the four offices covers a specific set of counties; to reach the office responsible for your area, please consult the map and relevant contact information.



In addition to each National Weather Service office, local Emergency Management Agencies and nearby Red Cross Chapters are also available for interviews and weather awareness programs.

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