

SKYWARN Spotter Reference

Provided by: National Weather Service, Bismarck 2301 University Drive, Building 27 Bismarck, ND 58504 www.weather.gov/bis



To Report Severe Weather:

- 1. If you are part of your local county's spotter network, follow the established reporting procedures. Contact your local County Emergency Manager for more information.
- 2. If you are in western or central North Dakota and are not part of a local spotter network, call the Bismarck NWS Office at (800) 247-0212. Limit use to these reports:
 - a. Tornadoes, Funnel clouds, or Wall Clouds (watch for rotation and persistence)
 - b. Hail (be specific with size; reference coins or balls; DO NOT report marble size)
 - c. Thunderstorm winds or thunderstorm wind damage
 - d. Flooding and/or 1 inch or more of rain within 1 hour
- 3. What to report:

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- b. Where is the event
- c. What you saw

- d. When you saw it (beginning and end time)
- e. Was there damage
- f. Late reports are better than no reports!!!

How to Estimate Wind Speed:

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How to Estimate Hail Size:

0.25 inch = Pea	1.25 inch = Half-dollar	2.50 inch = Tennis Ball
0.75 inch = Dime	1.50 inch = Ping Pong Ball	2.75 inch = Baseball
0.88 inch = Nickel	1.75 inch = Golf Ball	4.00 inch = Grape Fruit
1.00 inch = Quarter	2.00 inch = Hen Egg	4.25 inch = Softball

When Looking for Severe Weather, ALWAYS Think Safety First:

- 1. If you can hear thunder, then you are close enough to the storm to be struck by lightning. Stay in your vehicle. Do not stand next to trees or other tall/isolated objects.
- 2. The proper viewing angle for a northeast (southeast) moving storm is to position yourself to the southeast (south) of the storm. Remain at a safe distance (2-4 miles).
- 3. Position your vehicle at intersections, allowing for multiple escape routes to account for irregular storm motion.
- 4. Never cross flooded roads.

Useful SKYWARN Spotting Tips

Tornado Reporting:

- 1. Report what you see. DO NOT report what you think you see, what you want to see, or what you think you will see.
- 2. Report YOUR location, the location of the tornado, and the time.
- 3. If possible, report other details such as Damage, Debris, Size, and Shape.
- 4. Be careful when you choose words to describe what you are seeing, especially related to damage. There is a big difference between a house that is destroyed and a house that just has part of its roof torn off! Don't overstate the significance of what you are observing.
- 5. Remember, a tornado is defined as a violently rotating column of air extending from a thunderstorm and TOUCHING the ground (a visible funnel is NOT needed -- look for dust debris swirling on the ground underneath a defined funnel or strong rotation).

Supercells and Squall Lines:







