



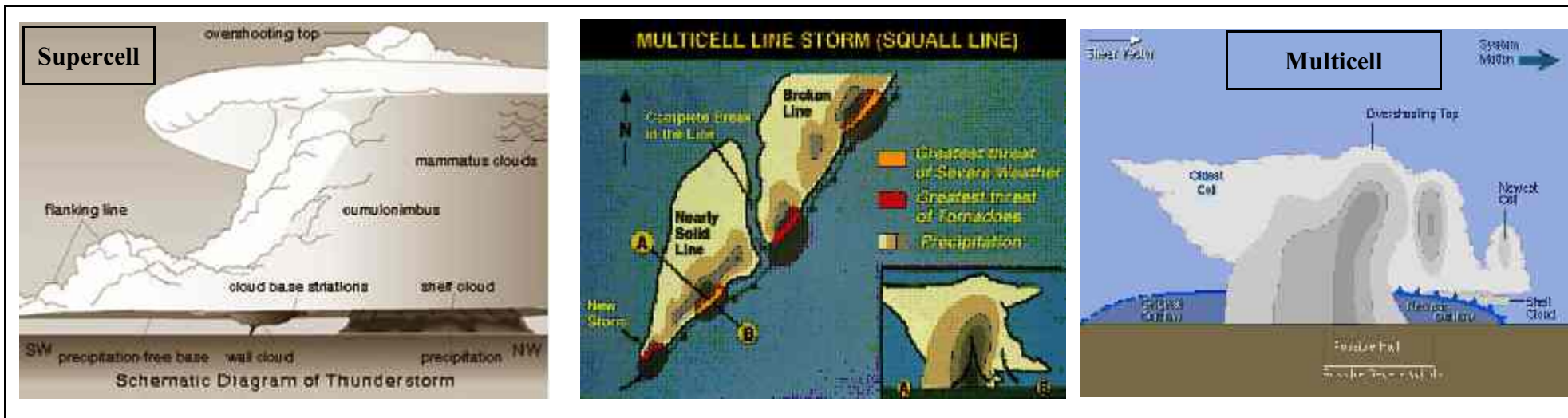
1-800-262-9683

# Spotter Reference Sheet

National Weather Service - Cleveland OH

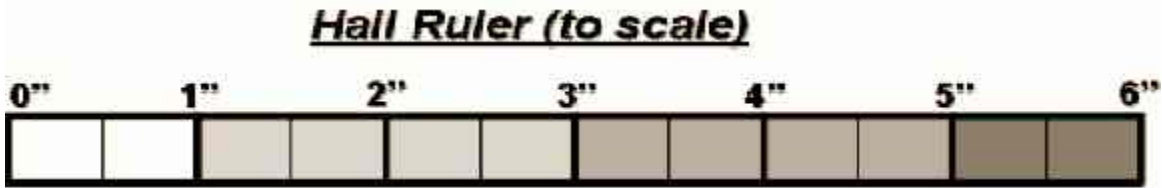
[www.weather.gov/cle](http://www.weather.gov/cle)

<http://spotter.weather.gov>



- ### Things to Remember:
- The schematics above depict the classic looking supercells, multicells and squall lines. Not all thunderstorms will look like this!
  - When observing a suspicious lowering, be sure to look for persistent and organized rotation when determining if it is a tornado threat. Thunderstorms will often have lowering that do not rotate called scud clouds. These are often confused for funnels.
  - Remember our warning criteria. Severe Thunderstorm is 3/4" hail and 58 mph or greater winds.
  - Shelf Clouds occur on the storm front and can indicate damaging winds. Wall Clouds form in the back of a storm and can mean a possible tornado.

Wind Speed Estimates	
25-31 MPH	Large branches in motion; whistling in overhead wires.
32-38 MPH	Whole trees are in motion; walking into the wind becomes difficult.
39-54 MPH	Twigs and small, thin branches break off; a few larger dead or weak branches may break off.
55-73 MPH	Large limbs break and shallowrooted trees are pushed over; damage to antennas; a few awnings and shingles may be blown off houses; mobile homes, billboard signs and carports may sustain some minor damage.
74-89 MPH	Widespread tree damage either broken or uprooted; mobile homes and carports will sustain more significant damage - mobile homes may be overturned; some roof damage to buildings; weak structures (outbuildings) may be severely damaged.
> 90 MPH	Groves of trees flattened; mobile homes severely damaged, pushed off their foundations or overturned; roof damage is more substantial, parts of the roof may be peeled off; Bams and sheds severely damaged or destroyed.



Hail Size Estimates	
0.75" - Penny	0.88" - Nickel
1.00" - Quarter	1.25" - Half Dollar
1.50" - Ping Pong Ball	1.75" - Golfball
2.00" - Hen Egg/Lime	2.50" - Tennis Ball
2.75" - Baseball	3.00" - Large Apple
4.00" - Grapefruit	4.50" - Softball



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## WHAT TO REPORT:

1. Tornado, funnel cloud, or wall cloud
2. Large hail (1/2 inch or greater...be specific on size... see next page for estimating size)
3. Actual wind damage or winds measured/estimated at 50 mph or more (see next page for estimating wind speeds)
4. Flooding (stream out of bank, dam failure, ice jam flooding, or more than a foot of water in streets)
5. Heavy rain (1 inch or more) or Heavy snow (6 inches or more)
6. Death or serious injury caused by any weather phenomena

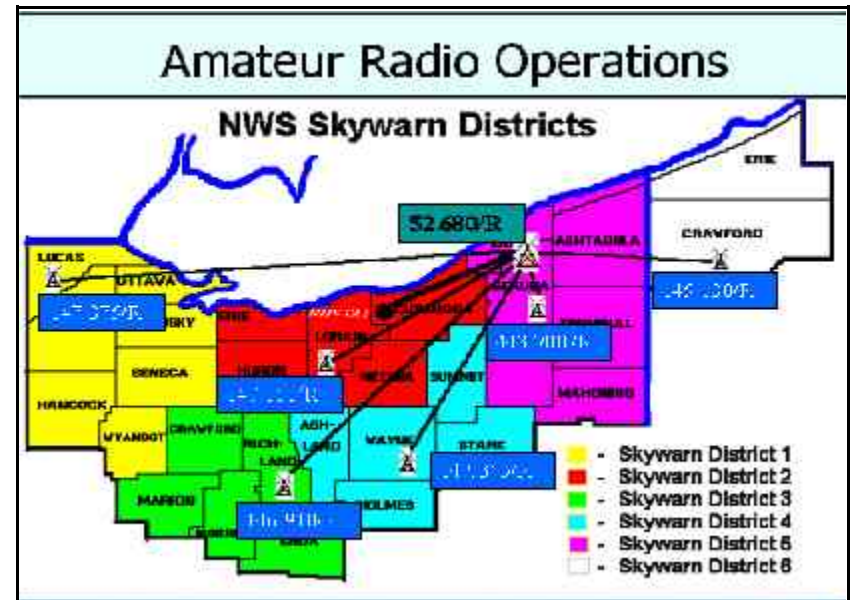
**TO REPORT:** Identify yourself as a SKYWARN spotter. Provide your name or call sign (if amateur radio), location, a brief description of the severe weather and damage, and the time it occurred.

### Reporting Methods:

1. Amateur Radio (Backbone 52.680 closed net)
2. Telephone (1-800-262-9683)
3. Email eSpotter web site (<http://eSpotter.weather.gov>)

### Useful Web Sites

NWS Cleveland	<a href="http://www.weather.gov/cle/">www.weather.gov/cle/</a>
eSpotter	<a href="http://spotter.weather.gov">spotter.weather.gov</a>
Storm Prediction Center (SPC)	<a href="http://www.spc.noaa.gov">www.spc.noaa.gov</a>
National Web Site	<a href="http://www.weather.gov">www.weather.gov</a>
Ohio River Forecast Center (OHREC)	<a href="http://www.erh.noaa.gov/ohrfc">www.erh.noaa.gov/ohrfc</a>
Hydrometeorological Prediction Center	<a href="http://www.hpc.ncep.noaa.gov">www.hpc.ncep.noaa.gov</a>
NOAA Weather Radio	<a href="http://www.nws.noaa.gov/nwr">www.nws.noaa.gov/nwr</a>
NWS Publications	<a href="http://www.nws.noaa.gov/om/brochures.shtml">www.nws.noaa.gov/om/brochures.shtml</a>
Wind Chill Chart	<a href="http://www.nws.noaa.gov/om/windchill/index.shtml">www.nws.noaa.gov/om/windchill/index.shtml</a>
Heat Index Chart	<a href="http://www.erh.noaa.gov/pub/heat.htm">www.erh.noaa.gov/pub/heat.htm</a>
National Climate Data Center	<a href="http://www.ncdc.noaa.gov">www.ncdc.noaa.gov</a>



Station	Call Sign	Frequency
Akron, OH	KDQ-94	162.400 MHz
Bridgeport, OH	WWF-35	162.525 MHz
Carey, OH	KZZ-47	162.525 MHz
Cleveland, OH	KHB-59	162.550 MHz
Columbus, OH	KIG-88	162.550 MHz
Erie, PA	KEC-58	162.400 MHz
Grafton, OH	WNG-898	162.500 MHz
High Hill, OH	WXJ-47	162.475 MHz
Lima, OH	WXL-93	162.400 MHz
Mansfield, OH	WWG-57	162.450 MHz
Meadville, PA	KZZ-32	162.475 MHz
New Philadelphia, OH	WNG-735	162.425 MHz
Sandusky, OH	KHB-97	162.400 MHz
Toledo, OH	WXL-51	162.550 MHz
Youngstown, OH	WWG-56	162.500 MHz



## NOAA Weather Radio Locations