



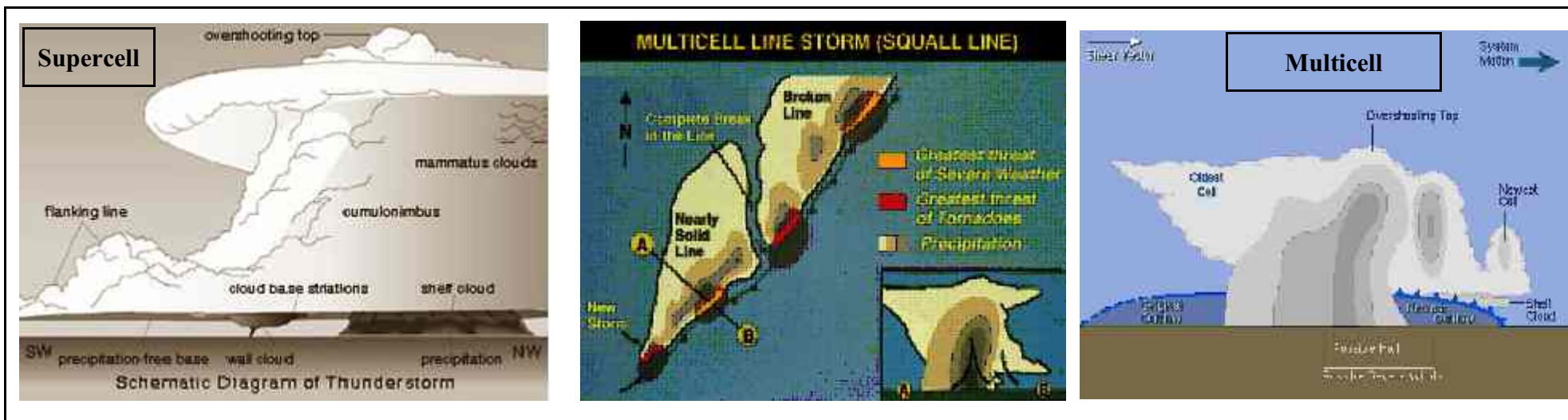
1-800-262-9683

Spotter Reference Sheet

National Weather Service - Cleveland OH

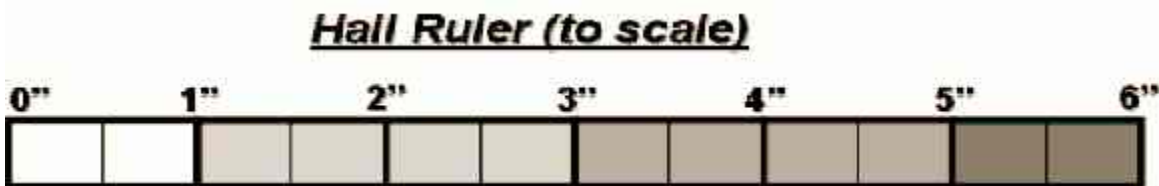
www.weather.gov/cle

<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; barns 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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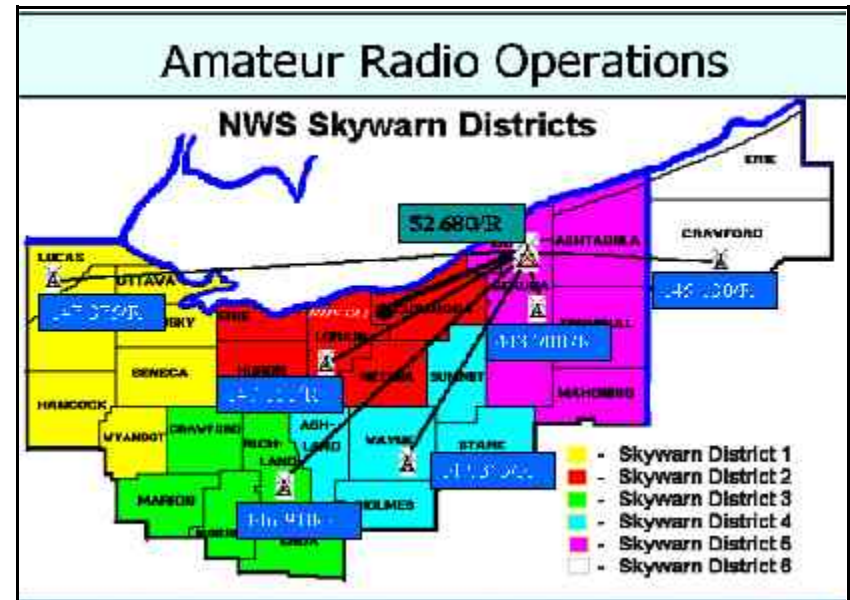
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WHAT TO REPORT:

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



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