



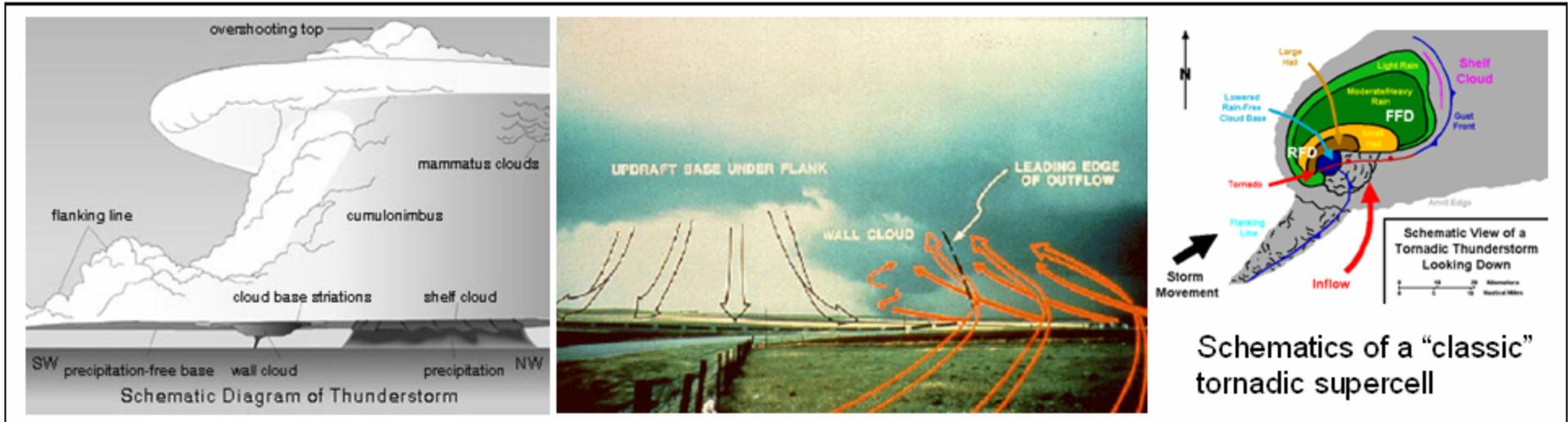
<http://weather.gov/norman>

Spotter Reference Sheet

National Weather Service – Norman, OK
<http://www.srh.noaa.gov/oun/stormreport/>



<http://espotter.weather.gov>



Schematics of a "classic" tornadic supercell

- ### THINGS TO REMEMBER:
- When looking for a tornado, be sure to see evidence of rotation at the ground level, not just a funnel. Sometimes there may be no visible funnel, but a debris cloud will be visible on the ground.
 - The schematics above depict what to look for in a classic looking supercell. Not all tornadic 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 lowerings that do not rotate called scud clouds. These can often be confused for funnels.
 - Safety comes first when spotting! If it is dangerous to be spotting, then seek shelter quickly.

| 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 Ruler (to scale)



| 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

- Tornadoes
- Rotating wall clouds
- Wind gusts >58 mph (measured or estimated)
- Any storm damage: Trees, limbs and/or power lines downed, structural damage, etc.
- Funnel Clouds
- Hail over 0.75 inches in diameter. Report the largest stone you see.
- Flooding that impacts roads or property

YOU NEED TO INCLUDE

- **WHO** you are, and any affiliations (SKYWARN, law enforcement, etc.)
- **WHAT** you observed. Give detail and be specific.
- **WHERE** the event occurred. Be sure to note the difference between where *you are* and where the event is *actually occurring*.
- **WHEN** it happened. Try to be precise.

HOW TO SEND YOUR REPORT

• EMERGENCY MANAGER

Your reports should first go to your local emergency manager or collection point. They will forward your report.

• CALL US

You can call **(405)-325-3816** to contact the NWS office in Norman directly.

• ONLINE REPORTS

weather.gov/norman

NWS Weather Radio Transmitters

| | |
|-----------------|-------------|
| Altus | 162.425 MHz |
| Ardmore | 162.525 MHz |
| Atoka | 162.500 MHz |
| Chickasha | 162.450 MHz |
| Clinton | 162.525 MHz |
| Enid | 162.475 MHz |
| Lawton | 162.550 MHz |
| Oklahoma City | 162.400 MHz |
| Ponca City | 162.450 MHz |
| Stillwater | 162.500 MHz |
| Wewoka | 162.550 MHz |
| Wichita Falls | 162.475 MHz |
| Woodward | 162.500 MHz |
| McAlester OK | 162.475 MHz |
| Childress, TX | 162.525 MHz |
| Miami, TX | 162.450 MHz |
| Sherman TX | 162.475 MHz |
| Paris TX | 162.550 MHz |
| Denton TX | 162.450 MHz |
| Throckmorton TX | 162.425 MHz |
| Beaumont KS | 162.500 MHz |
| Belvidere KS | 162.525 MHz |
| Meade KS | 162.475 MHz |

THINGS TO HAVE WHEN STORM SPOTTING

- NOAA Weather Radio
- Pad of paper and pencil or pen
- A watch set to the correct time
- This reference sheet
- A ruler (provided on this sheet)
- Weather instruments if you have them



SKYWARN Amateur Radio Network Monitoring Frequencies

| | |
|---------------|---------|
| Oklahoma City | 145.410 |
| Ardmore | 146.745 |
| Edmond | 443.425 |
| Perry | 442.925 |
| Watonga | 146.745 |
| Cyril | 147.045 |
| Granite | 146.715 |
| Grandfield | 147.255 |
| Sharon | 444.950 |
| Sharon | 147.360 |