

# Hail Size Estimates

<b>Report to NWS?</b>	<b>Hail Size</b>	<b>Description</b>
<b>No Report Necessary</b>	0.25-0.50 inch	Small Hail
<b>Sub-Severe</b> <b><u>Please report to NWS</u></b>	0.70 inch	Dime
	0.75 inch	Penny
	0.88 inch	Nickel
<b>Severe!</b> <b><u>Please report to NWS immediately!</u></b>	1.00 inch	Quarter
	1.25 inches	Half Dollar
	1.50 inches	Ping Pong Ball
	1.75 inches	Golf Ball
	2.00 inches	Lime
	2.50 inches	Tennis Ball

Note: Hail size refers to the *diameter* of the hailstone.

# Wind Speed Estimates

MPH	Knots	Description	Examples
8-12	7-10	Gentle Breeze	Leaves and small twigs in constant motion; Wind extends light flag.
13-18	11-16	Moderate Breeze	Raises dust, loose paper; Small branches moved.
19-24	17-21	Fresh Breeze	Small trees begin to sway
25-31	22-27	Strong	Large branches in motion; Whistling heard in telephone wires; Umbrellas used with difficulty.
32-38	28-33	Very Strong Wind	Trees in motion. Light-weight loose objects (e.g., lawn furniture) tossed or toppled. Walking becomes difficult.
39-49	34-42	Gale Force	Small trees bend; twigs and small branches/limbs < 2" in diameter may break off trees.
50-57	43-49	Near Severe	Limbs 2-3" in diameter or larger dead or weak branches may break. Very small trees may blow over or snap. Old/weak structures (e.g., sheds, barns) may sustain minor damage (roofs, doors). Building partially under construction may be damaged. A few loose shingles removed from houses. Carports and poorly secured tents may be uplifted; minor cosmetic damage to mobile homes.
58-73	50-64	Severe Storm	Large limbs break; shallow rooted trees pushed over. Semi trucks overturned. More significant damage to old/weak structures. Shingles, awnings removed from houses; damage to chimneys and antennas; mobile homes, carports incur minor structural damage; large billboard signs may be toppled.
74-89	65-77	Hurricane Force (CAT 1)	Widespread damage to trees, some snapped/uprooted. Mobile homes incur significant structural damage, pushed off foundations or overturned. Roof may be partially peeled off industrial/commercial/warehouse buildings. Some minor roof damage to homes. Weak structures (e.g., farm buildings, airplane hangers) may be severely damaged.
90 +	78 +	Destructive Wind	Many large trees snapped or uprooted. Mobile homes severely damaged; moderate to severe roof damage to homes. Moving automobiles pushed off dry roads. Barns, sheds demolished.

**No Report to NWS necessary**

**Sub-Severe --- Please Report to NWS**

**Severe --- Please Report to NWS immediately!**