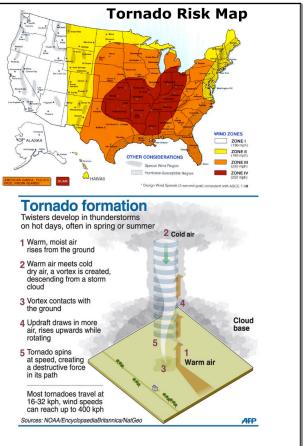


- All form in t-storms
- T-storms w/ tornadoes usually form along cold fronts

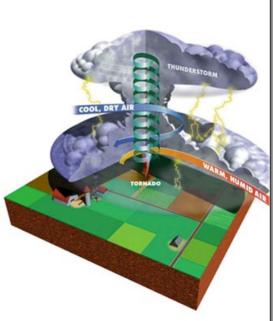


Fujita Scale EF Rating Wind Speeds **Expected Damage** 'Minor' damage: shingles blown off or parts of a roof peeled off, damage to gutters/siding, EF-O 65-85 mph branches broken off trees, shallow rooted trees toppled. 'Moderate' damage: more significant roof damage, windows broken, exterior doors EF-1 86-110 mph damaged or lost, mobile homes overturned or badly damaged. 'Considerable' damage: roofs torn off well constructed homes, homes shifted off their EF-2 111-135 mph foundation, mobile homes completely destroyed, large trees snapped or uprooted, cars can be tossed. 'Severe' damage: entire stories of well constructed homes destroyed, significant EF-3 136-165 mph damage done to large buildings, homes with weak foundations can be blown away, trees begin to lose their bark. 'Extreme' damage: Well constructed homes are leveled, cars are thrown significant distances, EF-4 top story exterior walls of masonry buildings would likely collapse. 'Massive/incredible' damage: Well constructed homes are swept away, steel-reinforced concrete structures are critically damaged. EF-5 > 200 mph high-rise buildings sustain severe structural damage, trees are usually completely debarked, stripped of branches and snapped.

TORNADO FACTS

- Funnel Cloud: a tornado in the air before touchdown ("tornado": must touch ground)
- F3 F5 most dangerous but only about 20% of all tornadoes
- <u>Water Spouts</u>: tornadoes over water (slow/less dangerous)

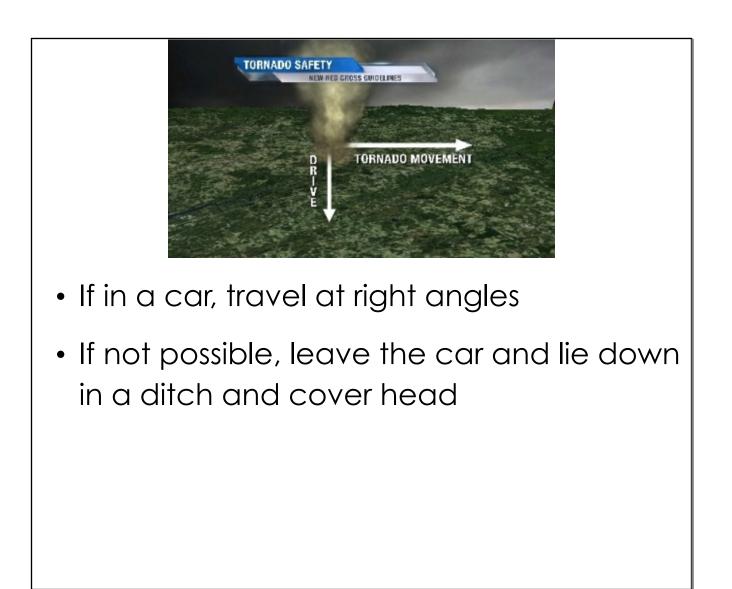
- MN gets ~20/year
- Dodge Co. gets 1 every 4-5 years (F0 to F2)
- Funnel at ground only ~500m across
- Travels 25 45 mph but 79 mph recorded
- Path is ~15 miles long, but not continuous
- Funnel Cloud and Tornado usually last less than an hour



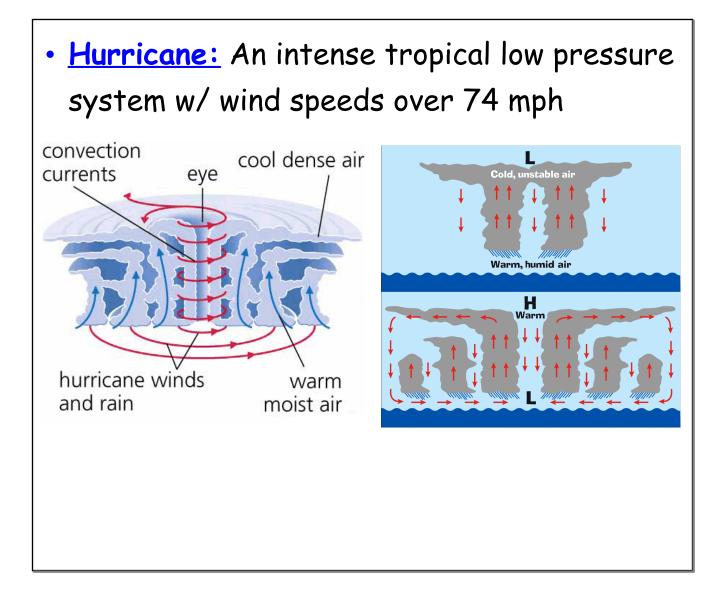
TORNADO SAFETY

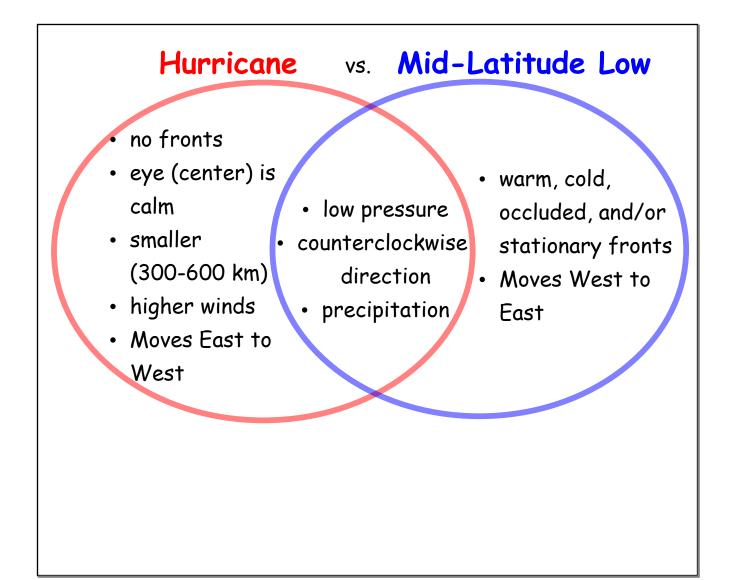


- Designated Shelter:
 - lowest level, few windows, most walls, under table
- Have a battery radio & flashlight in shelter
- DO NOT LEAVE shelter until tornado is lifted





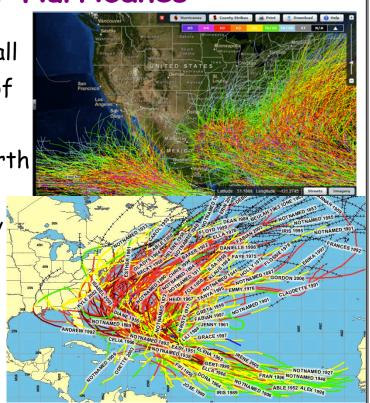






Source & Track of Hurricanes

- Late summer and early fall
- Form in tropical waters of the Doldrums
- Moves west and then North w/ trade winds
- Hooks and moves East w/ westerlies
- Low strength over cold water and land



Saffir-Simpson Hurricane Scale		
Category	Wind speed (mph)	Storm surge (feet)
5	156	More than18
4	131–155	13–18
3	111–130	9–12
2	96–110	6–8
1	74–95	4–5
	Additional classification	S
Tropical storm	39–73	0–3
Fropical depression	0-38	0

- Hurricanes are named alphabetically w/ male and female names
- They are tracked mainly by satellite photos but also by planes and ships
- Cause immense property damage but relatively low loss of life

• Hurricane warnings are posted up to 24 hours in advance of land fall

WATCHES

- cover large areas for several hours
- Conditions are right for severe weather

WARNINGS

- The actual condition exists
- Small area for short time
- Take action immediately!

25B: Tornadoes & Hurricanes

