THE NORTON TELEGRAM Page 10

Friday, May 1, 2009

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This is a photo of a tornado in the decay stage. This, too, was photographed near the town of Cordell, Okla.

Frequently asked questions about tornadoes

<u>ning? Utter silence?</u>

A: Not necessarily, for any of those. Rain, wind, lightning, and hail characteristics vary from storm to storm, from one hour to the next, and even with the direction the storm is moving with respect to the observer. While large hail can indicate the presence of an unusually dangerous thunderstorm, and can happen before a tornado, don't depend on it. Hail, or any particular pattern of rain, lightning or calmness, is not a reliable predictor of tornado threat.

<u>Q: How long does a tornado</u> last?

A: Tornadoes can last from several seconds to more than an hour. The longest-lived tornado in any particular tornado does not history is really unknown, because so many of the long-lived tornadoes reported from the early-mid 1900s and before are believed to be tornado series instead. Most tornadoes last less than 10 minutes.

Q: I heard the Oklahoma City tornado was almost "F6." Is that a real level on the original F-scale? Is there such a thing as EF-6?

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A: For the original F-Scale, Fujita plotted hypothetical winds higher than F5; but as mentioned in the previous answer above, they were only guesses. Even if the winds measured by portable tex tornado may only be strong kinds of "bizarre" effects, such

Q: Does hail always come be- per hour) had been over 318 miles smaller embedded sub-vortices, a tree or other objects, creating dangerous. Don't do it. You may <u>fore the tornado? Rain? Light-</u> per hour, the tornado still would have been rated "only" F5, since across, may strike the house next straw) becomes lodged before that is the most intense possible damage level. On the Enhanced F-scale, there is no such thing as "EF6" or higher. Damage – no matter how "incredible" or how strong the wind — maxes out at EF-5.

Q: Big fat tornadoes are the strongest ones, right?

A: Not necessarily. There is a statistical trend (as documented by the National Severe Storms Laboratory's Harold Brooks) toward wide tornadoes having higher damage ratings. This could be related to greater tornado strength, more opportunity for targets to damage, or some blend of both. However, the size or shape of say anything conclusive about its strength. Some small "rope" tornadoes still can cause violent damage of EF4 or EF5; and some very large tornadoes over a quarter-mile wide have produced only weak damage equivalent to EF0 to EF1.

Q: How can a tornado destroy one house and leave the next one almost unscratched?

A: Most of the time, this happens either with multiple-vortex tornadoes or very small, intense single-vortex tornadoes. The winds in most of a multi-vor-

perhaps only a few dozen feet cracks in which debris (e.g., hay door with winds over 200 miles per hour, causing complete destruction. Also, there can be great differences in construction from one building to the next, so that even in the same wind speed, one may be flattened while the other is barely nicked. For example, a flimsy, unanchored mobile home may be obliterated while all surrounding objects suffer little or no damage.

Q: How do tornadoes do some weird things, like drive straw into trees, strip road pavement and drive splinters into bricks?

A: The list of bizarre things attributed to tornadoes is almost endless. Much of it is folklore; but there are some weird scenes in tornado damage. Asphalt pavement may strip when tornado winds sandblast the edges with gravel and other small detritus, eroding the edges and causing chunks to peel loose from the road base. Storm chasers and damage surveyors have observed this phenomenon often after the passage of a violent tornado. With a specially designed cannon, wind engineers at Texas Tech University have fired boards and other objects at over 100 miles per hour into various types of construction materials, duplicating some of the

the tree straightens and the crack tightens shut again. All bizarre damage effects have a physical cause inside the roiling maelstrom of tornado winds. We don't fully understand what some of those causes are yet, however; because much of it is almost impossible to simulate in a lab.

Q: Do mobile homes attract tornadoes?

A: Of course not. It may seem that way, considering most tornado deaths occur in them, and that some of the most graphic reports of tornado damage come from mobile home communities. The reason for this is that mobile homes are, in general, much easier for a tornado to damage and destroy than well-built houses and office buildings. A brief, relatively weak tornado which may have gone undetected in the wilderness — or misclassified as severe straight-line thunderstorm winds while doing minor damage to sturdy houses — can blow a mobile home apart. Historically, mobile home parks have been reliable indicators, not attractors, of tornadoes.

Q: Long ago, I was told to open windows to equalize pressure. Now I have heard that's a bad thing to do. Which is right?

ground level, roughly 302 miles particular house. But one of the bricks. Intense winds can bend precious time, and can be very saving lives.

be injured by flying glass trying to do it. And if the tornado hits your home, it will blast the windows open anyway.

Q: I've seen a video of people running under a bridge to ride out a tornado. Is that safe?

A: Absolutely not! Stopping under a bridge to take shelter from atornado is a very dangerous idea, for several reasons:

• Deadly flying debris can still be blasted into the spaces between bridge and grade — and impaled in any people hiding there.

• Even when strongly gripping the girders (if they exist), people may be blown loose, out from under the bridge and into the open possibly well up into the tornado itself. Chances for survival are not good if that happens.

• The bridge itself may fail, peeling apart and creating large flying objects, or even collapsing down onto people underneath. The structural integrity of many bridges in tornado winds is unknown — even for those which may look sturdy.

• Whether or not the tornado hits, parking on traffic lanes is illegal and dangerous to yourself and others. It creates a potentially deadly hazard for others, who may plow into your vehicle at full highway speeds in the rain, hail, and/ or dust. Also, it can trap people in A: Opening the windows is the storm's path against their will, Doppler radar (32 meters above enough to do minor damage to a as wood splinters embedded in absolutely useless, a waste of orblock emergency vehicles from

The people in that infamous video were extremely fortunate not to have been hurt or killed. They were actually not inside the tornado vortex itself, but instead in a surface inflow jet – a small belt of intense wind flowing into the base of the tornado a few dozen yards to their south. Even then, flying debris could have caused serious injury or death. More recently, on May 3, 1999, two people were killed and several others injured outdoors in Newcastle and Moore, Okla.,, when a violent tornado blew them out from under bridges on I-44 and I-35. Another person was killed that night in his truck, which was parked under a bridge.

Q: How many tornadoes hit the <u>US yearly?</u>

A: About one thousand. The actual average is unknown, because tornado spotting and reporting methods have changed so much in the last several decades that the officially recorded tornado climatologies are believed to be incomplete. Also, in the course of recording thousands of tornadoes, errors are bound to occur. Events can be missed or mis-classified; and some non-damaging tornadoes in remote areas could still be unreported.

Q: How many people are killed every year by tornadoes?

A: On average, tornadoes kill about 60 people per year — most from flying or falling (crushing) debris.





Think "Safety First" After **Storms**

Consider all downed power lines and hanging wires **ENERGIZED** and **DANGEROUS!**

Can YOU tell the difference?

Severe Thunderstorm Watch Severe thunderstorms are likely to occur.

Severe Thunderstorm Warning Severe thunderstorms have been spotted, and people in the path of the storm are in danger.

Tornado Watch Tornadoes are possible in the area. Stay tuned to the radio or TV and watch the sky.

Tornado Warning A tornado has been sighted. Take cover at once.

Be aware of weather around you and listen to watches and warnings!

Post this where you can see it when severe weather occurs

FROM THE Norton County Sheriff's Office Emergency - 911 • Administrative - 785-877-5780 Norton County Emergency Preparedness

— Always Be Prepared - Listen to Watches and Warnings - It's Up to YOU to Seek Shelter Before a Storm Arrives It could be the most important decision you will ever make



BE ASSURED

the Norton County Hospital will be there in Case of an Emergency





The Norton County Hospital has implemented a plan which would become effective once notified by the Emergency Preparedness Team.

Norton County Hospital would continue to function in a full or limited capacity to offer:

> •EMERGENCY SERVICES — -Primary Triage-Emergency Care —Secondary Triage-Advanced Care -Walking Wounded Care-Non Critical Care

•LAB WORK •X-RAY •LIMITED ELECTIVE SURGERIES FOR MORE CRITICAL CARE UNTIL CRISIS WAS OVER

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