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Tornado videos destroying houses

Jamie Spritt/Flickr Savage tornadoes tore through the south and southeastern U.S. last week, killing at least 340 people and leaving thousands injured or homeless. Meteorologists ranked two of about 225 confirmed tornadoes as EF-5, the strongest category on the enhanced Fujita scale. Winds are spinning in these monsters at more than 200 miles per hour. But it doesn't take such rare twisters of god's finger to tear a structure apart. Tornadoes in the EF-2 range and EF-3 packing 111-265 km/h winds could destroy single-family homes, according to experts from the Business Insurance Institute & Home Safety (IBHS). Four seconds is all a pretty powerful tornado needs to clear the base. An in-house can fall apart pretty quickly, says Tim Reinhold, senior vice president of research and chief engineer of IBHS. How a tornado attacks a house on the one hand for a moment depends on variables such as the inner wind speeds of the winds, the size, the path and the rhythm along the ground. The orientation of a residential building to a tornado and design details also greatly affect the outcome. (In short, no two tornadoes or homes are never quite the same.) Nevertheless, years of field studies and simulations have revealed the general science of how tornadoes reduce homes to scrap heaps. This timeline follows the destruction of a typical single-family home, a wooden frame built on a board-based classroom over just four seconds. These types of homes are common in the well-known tornado alley found in the Plains states, as well as in Dixie Alley, the part of the southern U.S. where deadly tornadoes hit again. By 12:01 a.m. like twister barrels towards a house, it brings flying debris that shatters windows and pounds away in the outer walls. Because they go so fast, the winds blowing over the roof run uplifting, the same aerodynamic force that allows planes to fly. That roof squeak and maybe even pieces of the deck roof rip away, becoming part of the vortex as Twister's funnel begins to sweep over the unlucky house. 12:02 a.m.: Air rushes into the house through the broken windows, filling the structure with pressure as a balloon becomes inflated, Reinhold says. Internal pressure pushes towards the ceiling, joining the uplift on the roof from the storms outside in applying pressure to the roof. The relatively weak ties between the roof and the walls are moving and the roof explodes. Building codes in designated non-hurricane areas -- all but southeast Florida and off the coasts of Louisiana and Alabama -- call for two 16 pence (3 1/2-inch) nails connecting their roofs to an outdoor wall plate. These connections are designed to hang houses from gusts of up to 150 km per hour for 3 seconds at an altitude of 33 feet. But even EF-1 Capable of seaming out another penalty, 12:03 with the roof gone, the walls next. Unless there are a lot of interior walls that are indulging and going into them, [the exterior walls] are thin and not well connected to each other in the corners, Reinhold says. Without a roof, a normal house becomes a house of cards in front of a tornado. Although tornadoes rotate in cyclic motion, the fact that they are so large - with a typical 500-foot-wide footprint - means the house is effectively crushed by straight-line winds. The side walls parallel to these winds will usually go first, Reinhold says, because they feel the sedica the most. The front, the wind wall then gets pushed by the tornado, and finally the back wall explodes out, all within about a second. About 40 years ago, a record of this typical pattern of destruction -- one wall inside, three outside -- reversed the idea that houses exploded due to low pressure amid a vortex of tornadoes. In fact, people once learned to open their windows before a tornado. Now the opposite is now known to be true: these are the houses whose envelopes don't rupture that tend to survive, Reinhold says. 12:04 a.m. and after the final parts of the house an immersive tornado strike away are the interior walls. Progressive failure starts from top to bottom, then from the outside, Marshall says. Small central rooms, therefore, such as a bathroom or closet, are probably the best bet for survival if you don't have a basement or tornado shelter, according to Randy Shackelford, a research engineer with Simpson Strong-Tie, the world's leading creators of structural connectors to bolster homes against high winds. An interior room gives you a few extra layers of protection that the waste has to go through before it hits you, he says. Without exterior walls or roof to tighten them, however, these interior walls can easily collapse or get blown over in the twister's rage. To avoid being crushed by the falling walls, tenants must try to hide under robust objects, such as a stairwell or tables. Because tornadoes usually move in a home-sized area so quickly, the high winds can pass before reducing the entire structure to rubble, saving the lives of those shrinking inside. This content is created and maintained by a third party and imported to this page to help users provide their e-mail addresses. You may be able to find more information about this and similar content at piano.io. Johannesburg Cape Town Pretoria Vereeniging Durban Plattenberg Bay Paarl Strandenburg Rust Bloemfontein Nelspruit George 20°C/22°C Home was going to be the home of a local man who needed a reasonable place to live. But badly damaged by the December natural disaster Ben and Erin Napier are restoring a special home for a second time after the completed project was destroyed by a recent tornado. At the season 4 premiere of their hometown, the couple showed viewers the devastation caused by a deadly tornado that hit their city LAUREL, Mississippi on Dec. During Monday night's season finale, the couple re-examine one of the homes heavily damaged by the natural disaster and restart a renovation project they finished earlier. Get push notifications with news, features, and more. This last thing this neighborhood needs, Erin, 34, says in the episode's clip, above, shared exclusively with People. She and her husband Ben, 36, are surveying the historic property they arranged for actor Richard T. Jones and his wife. The Joneses live in Los Angeles but fell in love with the charming Southern House, located in a rundown neighborhood of Laurel. The Joneses purchased it and put the renovation in the talented hands of the Neferim, and planned to house it for a local resident they call Mr. Gary, who needed a decent place to live. All this fell apart when the tornado tore through the area. This house was special. It was a lease-to-yourself situation for someone who needed it, explains Ben in the video. Benny Jones found Mr. Gary, and he was getting ready to move in and then it happened. It looks like a bomb was dropped, Mr. Gary says of his dilapidated home. During the property and assessing the damage caused by the tornado, the Neferim decide that the entire ceiling should be replaced and part of the roof will have to be fixed - project Shai cost between \$65,000 and \$70,000. It was like their whole budget before, recalls Erin. Most of the rest of the house we've been working on, they're fine, she keeps going. But there's nothing like it. The only house that's been a gift to this neighborhood is the one that got hit the hardest. And that's not fair, is it? In the video, Erin and Ben decide to call Jones, who is happy to see how dry their home is in the storm. The Neferim tell them that miraculously, no one was hurt in the storm, but their neighborhood wasn't in good shape. Part of your roof is in a tree, says Erin, showing them the wreckage via video call. I know you're just trying to do a good thing for this neighborhood, so the thing is, we can't let this get lost. We want to do whatever it takes to get it right. The couple explain that they know how to repair the damage - and that they will donate their time to this. We can fix this, says Ben. And Gary will have a home to return to very soon, adds Erin. Related video: 'Hometown' couple Ben and Erin Napier The unbelievable journey to HGTV stardom: We didn't expect it Erin documented the storm on Instagram as it happened in December 2019. Our beautiful historic district that you love is #hgthometown by a tornado tonight, she wrote. We've lost so many of our century-old oak trees, but that's all I can see in the dark with headlights. I haven't heard a word about how the people on the way are. Keep Louisiana and Mississippi in your prayers, grab a chainsaw and help your neighbors in need. All our families. But a lot of people are going to need our help in the next few days. In another post, she explained, Laurel was working together to clean up our city after last night's tornado, but so many homes of low-income families were destroyed, roofs ripped off, and trees smashed a lot of property and cars... We lost some windows in the living room, but by tonight we'll be home and dinner. So many won't be so lucky. Thank you for thinking about Laurel so much in the last 24 hours! The Storm was a major plot line through his hometown Season 4. HGTV recently announced that they have ordered 16 more episodes of the fan-favorite series, and Season 5 will premiere in early 2021. The season 4 finale of Hometown airs Monday, June 8 at 9 p.m. ET/PT on HGTV. H.G.T.V.