

Fastest Wind Speed In A Tornado

Tornado Tornadoes are often (but not always) visible in the form of a condensation funnel originating from the cloud base, with a cloud of rotating debris and dust close to the ground. Most tornadoes have wind speeds less than 180 kilometers per hour (110 miles per hour), are about 80 meters (250 feet) across, and travel several kilometers (a few miles) before dissipating. The most extreme tornadoes can attain wind speeds of more than 480 kilometers per hour A tornado, also known as a twister, is a rapidly rotating column of air that extends vertically from the surface of the Earth to the base of a cumulonimbus or cumulus cloud. The most extreme tornadoes can attain wind speeds of more than 480 kilometers per hour (300 mph), can be more than 3 kilometers (2 mi) in diameter, and can stay on the ground for more than 100 km (62 mi). across, and travel several kilometers (a few miles) before dissipating

After the discovery of the New World, tornado documentation expanded into the Americas. On August 21, 1521, an apparent tornado is recorded to have struck Tlatelolco (present day Mexico City), just two days before the Aztec capital's fall to Cortés. Many other tornadoes are documented historically within the Basin of Mexico. The first confirmed tornado in the United States struck Rehoboth, Massachusetts, in August... The meter per second (m/s) is the SI unit for velocity and the unit recommended by the World Meteorological Organization for reporting wind speeds, and used amongst others in weather forecasts in the Nordic countries. Since 2010 the International Civil Aviation Organization (ICAO) also recommends meters per second for reporting wind speed when approaching runways, replacing their former recommendation of using kilometers per hour (km/h).

Greenfield tornado The tornado, known most commonly as the Greenfield tornado, destroyed many buildings and wind turbines across its path that stretched through Page, Taylor, Adams, and Adair counties, while also causing more than \$31 million in property damage, killing five people and injuring 35 more. However, estimated winds of 309–318 mph (497–512 km/h) were briefly determined from inside the tornado by a Doppler on Wheels portable radar unit, one of only three times that wind speeds exceeding 300 miles per hour (480 km/h) have been

determined in a tornado from radar observations. briefly determined from inside the tornado by a Doppler on Wheels portable radar unit, one of only three times that wind speeds exceeding 300 miles per hour On the afternoon of May 21, 2024, a violent and destructive EF4 tornado tracked across southwestern Iowa, United States, devastating the city of Greenfield. The tornado reached peak intensity within Greenfield, where National Weather Service surveyors denoted maximum wind speeds estimated at 185 mph (298 km/h), or EF4 on the Enhanced Fujita scale 28382ec580

The tornado formed amidst a significant tornado outbreak in an area expected to be strongly conducive for the development of long-tracked and fast-moving tornadoes. Over the next 48 minutes, the tornado was observed by multiple storm chasers and research teams, who would determine... 28382ec580 == Units == 28382ec580 The two main causes of large-scale atmospheric circulation are the differential heating between the equator and the poles, and the rotation of the planet, which is called the Coriolis effect. Within the tropics and subtropics, thermal low circulations over terrain and high plateaus can drive monsoon circulations. In coastal areas the sea breeze/land breeze cycle can define local winds; in areas that have variable terrain, mountain and valley breezes can prevail. 28382ec580 The tornado touched down in southwestern Canadian County and quickly became violent, debarking numerous trees as it passed through areas several miles southwest of Calumet. As it approached and crossed I-40 west of El Reno, it reached its maximum intensity. A nearby 20,000-pound (9,100 kg) oil tanker truck that was parked at an oil production site near the interstate was thrown approximately one mile (1.6 km) into a wooded... 28382ec580 == Early studies == 28382ec580

2014 Pilger tornado family The event was part of the tornado outbreak of June 16–18, 2014, and the supercell produced the year's third, fourth, fifth, and sixth violent tornadoes. The tornadoes impacted areas east of Norfolk, including the village of Pilger, which sustained major damage, as well as farmsteads near Stanton, and Wakefield. The Pilger tornado was the strongest and longest tracked tornado in its family, with maximum wind speeds up On the afternoon and early evening of June 16, 2014, a powerful cyclic supercell struck northeast Nebraska, producing six tornadoes, including four violent (EF4+) tornadoes. 92 million (2014 USD) in damages. Wakefield tornado, which led to its dissipation. This outbreak resulted in two fatalities, 20 injuries, and approximately \$20 28382ec580

== Background ==

Wind Winds have various defining aspects such as velocity (wind speed), the density of the gases involved, and energy content or wind energy. In meteorology Wind is the natural movement of air or other gases relative to a planet's surface. The study of wind is known as anemology. effect. Winds occur on a range of scales, from thunderstorm flows lasting tens of minutes, to local breezes generated by heating of land surfaces and lasting a few hours, to global winds resulting from the difference in absorption of solar energy between the climate zones on Earth

2011 El Reno–Piedmont tornado After producing incredible damage in several locations along a path of more than 60 miles (97 km), the tornado was given a rating of EF5 on the Enhanced Fujita scale, with peak wind speeds in excess of 210 mph (340 km/h), although a mobile Doppler radar found that the tornado possessed wind speeds of up to 295 mph (475 km/h). The tornado was the first F5/EF5 tornado to occur in Oklahoma since May 3, 1999, when an F5 tornado devastated areas in and around the Oklahoma City metropolitan area. with peak wind speeds in excess of 210 mph (340 km/h), although a mobile Doppler radar found that the tornado possessed wind speeds of up to 295 mph During the late-afternoon hours of May 24, 2011, a large, long-tracked and exceptionally violent EF5 tornado, commonly known as the El Reno–Piedmont tornado, impacted areas near or within the communities of El Reno, Piedmont, and Guthrie, killing nine people and injuring 181 others

2002 La Plata tornado Only six other F4-rated tornadoes have occurred farther north The 2002 La Plata tornado (lə-PLAY-tə) was an extremely powerful and fast-moving multi-vortex tornado that devastated the town of La Plata, Maryland, killing 3 people and injuring 122 others. It was the costliest tornado of the tornado outbreak of April 27–28, 2002, causing at least \$115 million in damages. area. It is also one of the worst storms to affect the greater Baltimore-Washington D. tornado had one of the fastest-anticipated forward speeds on record for a violent tornado. C

Disagreements on the intensity of tornadoes systematically rate tornadoes based on damage assessment. Despite these efforts to help assess the strength of tornadoes, engineers, scientists and academics have disagreed with each other on how strong various tornadoes were. However, the original Fujita scale lacked the incorporation of diverse empirical damage to estimate wind speeds, such as construction quality; to address

this, the Enhanced Fujita scale (EF-scale) was created in 2007, followed by the International Fujita scale (IF-scale) in 2023. This work has led to the creation of the Fujita scale (F-scale) in 1971 and the TORRO scale in 1975. This is a list of notable disagreements on the intensity of a particular tornado. It linked damage descriptions—like debarked trees or destroyed houses—to a bracket of wind speeds that would Since the late 18th century, meteorologists and engineers have worked to assess the intensity of tornadoes, typically through the work of a tornado damage survey or a scientific case study

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The first tornado touched down in an open field near Stanton but quickly dissipated. A more significant tornado then formed near Stanton. This tornado traveled for approximately 12 miles, causing extensive damage to several farmsteads and sweeping away a few farmhouses before lifting north of Dewey. Shortly thereafter, the supercell produced two additional violent tornadoes, subsequently becoming twin EF4 tornadoes. One of these tornadoes struck the village of Pilger directly, resulting in devastating damage and one death. The other twin over to the east leveled a farmhouse before dissipating east...

28382ec580 The earliest-known tornado occurred in Sardegna, Sardinia and Corsica, Roman Empire (modern-day Italy) in 200.

28382ec580 At approximately 6:56 pm (EST), the tornado touched down south of Marbury in western Charles County, Maryland. It struck La Plata shortly after and killed one person when their house was swept away. After entering Calvert County, two more people died when their home was picked up and thrown. It then continued into the Chesapeake Bay, barely missing the Calvert Cliffs Nuclear Power Plant to its south. After crossing the bay, the tornado moved into Dorchester County, strengthening to F3 intensity before dissipating west of Salisbury, Maryland.

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Wind speed Wind speed is now commonly measured with an anemometer. In meteorology, wind speed, or wind flow speed, is a fundamental atmospheric quantity caused by air moving from high to low pressure, usually due to changes In meteorology, wind speed, or wind flow speed, is a fundamental atmospheric quantity caused by air moving from high to low pressure, usually due to changes in temperature

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Winds are commonly classified by their spatial scale, their speed and direction, the forces that cause them, the regions in which they occur, and their effect. Winds have various defining aspects such as velocity (wind speed), the density of the gases

involved, and energy content or wind energy. In meteorology, winds are often referred... 28382ec580 For historical reasons, other units such as miles per hour (mph), knots (kn), and feet per second (ft/s) are also sometimes used to measure wind speeds. Historically, wind speeds have also been classified using... 28382ec580

Tornado records 2 km), and killing. The deadliest tornado in world history was the Daulatpur–Saturia tornado in Bangladesh on April 26, 1989, which killed approximately 1,300 people. The 2014 Pilger, Nebraska tornado had the highest forward speed ever recorded in a violent tornado, at 94 mph (151 km/h). Grazulis's outbreak intensity score with 578, as opposed to the 2011 outbreak's 378. The widest tornado recorded was the 2013 El Reno tornado, having a width of 2. The deadliest tornado in world history was This article lists various tornado records. The most extensive tornado outbreak on record was the 2011 Super Outbreak, which resulted in 367 tornadoes and 324 tornadic fatalities, whereas the 1974 Super Outbreak was the most intense tornado outbreak on tornado expert Thomas P. Pilger, Nebraska tornado had the highest forward speed ever recorded in a violent tornado, at 94 mph (151 km/h). 6 miles (4. In the history of Bangladesh, at least 24 tornadoes killed more than 100 people each, almost half of the total for the world. It was likely an F5 on the Fujita Scale (tornadoes were not rated at the time) and holds records for longest path length at 219 miles (352 km) and longest duration at about 3+1□2 hours. The most "extreme" tornado in recorded history was the Tri-State tornado, which spread through parts of Missouri, Illinois, and Indiana on March 18, 1925 28382ec580

The tornado had one of the fastest-anticipated forward speeds on record for a violent tornado. Only six other F4-rated tornadoes have occurred farther north and east, with none of them traveling as far. It is also the most recent violent tornado to strike... 28382ec580 Wind speed affects weather forecasting, aviation and maritime operations, construction projects, growth and metabolism rates of many plant species, and has countless other implications. Wind direction is usually almost parallel to isobars (and not perpendicular, as one might expect), due to Earth's rotation. 28382ec580 Types of tornadoes include the multiple-vortex tornado, landspout, and waterspout. Waterspouts are characterized by a spiraling funnel-shaped wind current, connecting to a large cumulus or cumulonimbus cloud. They are generally classified as non-supercellular tornadoes that develop over bodies of water, but there is disagreement about whether to classify them as true tornadoes. These

spiraling columns of air often develop in tropical areas close to the... 28382ec580

History of tornado research Several people throughout history are known to have researched tornadoes. the tornado was moving with a forward speed of 73 miles per hour (117 km/h), setting the record as the fastest forward moving violent tornado in history The history of tornado research spans back centuries, with the earliest documented tornado occurring in 200 CE and academic studies on them starting in the 18th century. This is a timeline of government or academic research into tornadoes 28382ec580

The earliest-known German tornado struck Freising (modern day Germany) in 788. The earliest-known Irish tornado appeared on April 30, 1054, in Rostella, near Kilbeggan. The earliest-known British tornado hit central London on October 23, 1091, and was especially destructive, with modern research classifying it as an F4 on the Fujita scale. 28382ec580

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