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Public Information Statement

National Weather Service Fort Worth TX

528 PM CDT Thu Oct 24 2019

...NWS Damage Survey For 10/20/2019 Severe Weather Event

Update #4...

.Update...Updated information for additional NWS surveys conducted today in Collin County. A tornado was identified in Allen, and downburst winds were confirmed east of Farmersville. Minor formatting corrections were also made to previous surveys.

.Overview...Severe thunderstorms erupted on the evening of 10/20/2019 across North Texas ahead of a powerful upper level storm system. A couple of supercell thunderstorms produced tornadoes across parts of the North Texas, including the Dallas/Fort Worth Metroplex. The highest rated tornado...an EF-3...struck portions of Dallas County, and a high-end EF-2 tornado occurred in Garland. A total of 10 tornadoes have now been confirmed in North Texas with this severe weather episode.

.Las Colinas through North Dallas to Richardson Tornado...

Rating: EF3
Estimated Peak Wind: 140 mph
Path Length /statute/: 15.76 miles
Path Width /maximum/: 1300.0 yards
Fatalities: 0
Injuries: 0

Start Date: 10/20/2019
Start Time: 08:58 PM CDT
Start Location: 3 ENE Irving / Dallas County / TX
Start Lat/Lon: 32.8685 / -96.9149

End Date: 10/20/2019
End Time: 09:30 PM CDT
End Location: 2 SE Richardson / Dallas County / TX
End Lat/Lon: 32.9569 / -96.6833

Survey Summary:

The tornado formed in northwest Dallas, near State Highway 348 and Luna Road, where large tree damage and minor roof damage was initially observed. This tornado tracked toward the east-northeast,

crossing I-35E and impacted numerous commercial structures between this freeway and Harry Hines Blvd.

Extensive damage to many businesses and residences, consistent with EF-1 and EF-2 intensity wind speeds, occurred near the intersection of Harry Hines Blvd and Walnut Hill Lane. As the tornado moved eastward, roughly coincident with Walnut Hill Lane, several gas stations, large commercial buildings, and churches, and at least one multi-story apartment complex sustained significant roof and exterior wall damage. This path of strong EF-1 and EF-2 damage continued east-northeast along Walnut Hill Lane through the Marsh Lane and Midway Road corridors. East of Marsh Lane, the tornado impacted more single-family residences, though commercial structures were still adversely affected at times. Severe damage to large hardwood trees, consistent with EF-1 intensity winds, was observed throughout the damage path from Marsh Lane to US HWY 75.

Intermittent EF-1 and EF-2 damage also occurred to a number of residences in this area. Many of these damaged homes were large and/or well-established structures that sustained either partial or total roof loss, accompanied by minor exterior wall damage. This damage was consistent with 110-125 mph tornado winds. Within one concentrated region of EF-2 damage along Northaven Road west of US HWY 75, a particular single-family home was surveyed with total roof loss, and multiple collapsed exterior walls. The survey team determined that this damage was consistent with low-end EF-3 intensity winds of approximately 140 mph. This was the only structure that was assigned an EF-3 rating for this tornado.

The tornado continued eastward, toward US HWY 75 and produced significant roof damage to several businesses near US HWY 75 including office low-rise buildings, a car dealership, and a Home Depot. Damage here was assigned an EF-2 intensity. The tornado crossed over the southern part of the Texas Instruments campus and then began to turn more northeastward and parallel Greenville Avenue. Tree and roof damage consistent with EF-1 occurred as it crossed I-635. Several glass windows were blown out at a mid-rise office building. The tornado crossed an apartment complex near Walnut Street and Greenville Avenue where dozens of units had sections of missing roof consistent with EF-1 damage of 95 to 110 mph. The tornado moved across the Cutters Point apartment complex where numerous units experienced significant roof loss consistent with 115 mph or EF-2 damage. Another low-rise office building saw numerous windows blown out on all sides. The tornado continued into the Richland Park, Lakes of Buckingham, Richland Meadows, and College Park residential subdivisions where widespread tree and roof damage consistent with 80 to 95 mph winds occurred. A few homes in this area saw complete or total roof loss where winds were estimated at 110 mph or EF-1. The tornado began to weaken and took a sharp turn to the

north near Richardson Square where it tracked to the Huffhines Park areas. Mostly tree damage occurred here with winds estimated near 70 mph or EF-0. The track then turned to the east and became very narrow near Duck Creek with the tornado dissipating as it crossed Jupiter Rd. The tornado had a continuous track for 32 minutes, tracked for just over 15 miles, produced maximum winds of 140 mph, with a maximum width of three-quarters of a mile.

.Midlothian Tornado...

Rating: EF1
Estimated Peak Wind: 100 mph
Path Length /statute/: 2.83 miles
Path Width /maximum/: 350.0 yards
Fatalities: 0
Injuries: 0

Start Date: 10/20/2019
Start Time: 09:10 PM CDT
Start Location: Midlothian / Ellis County / TX
Start Lat/Lon: 32.4981 / -96.9935

End Date: 10/20/2019
End Time: 09:15 PM CDT
End Location: 3 E Midlothian / Ellis County / TX
End Lat/Lon: 32.493 / -96.9454

Survey Summary:

The tornado began near Highway 67 and 9th Street on the north side of Midlothian and traveled east for approximately 2.8 miles. Several church and retail buildings experienced blown out windows and roof damage. One of the buildings connected to the Lighthouse Church was heavily damaged with the collapse of the southward facing wall and much of the roof removed. Just to the east of Highway 67, sheet metal was peeled on two buildings and metal roof purlins were bent on one. This damage was consistent with winds of 100 to 110 mph, and EF-1 intensity. The tornado weakened some as it headed east and crossed into a residential area south of Mockingbird Lane. Damage indicates the tornado intensified in the area of Morning Dove Lane and Pheasant Drive. Several homes experienced significant roof damage, uplift of the roof deck of at least one home, some windows blown out, a garage door collapsed, and several trees were uprooted. This type of damage was consistent with wind speeds of 100 to 110 mph, or EF-1 intensity. The tornado weakened before ending near Walnut Grove Road.

.Garland Tornado...

Rating: EF2

Estimated Peak Wind: 135 mph
Path Length /statute/: 2.48 miles
Path Width /maximum/: 265.0 yards
Fatalities: 0
Injuries: 0

Start Date: 10/19/2019
Start Time: 09:24 PM CDT
Start Location: 3 WSW Garland / Dallas County / TX
Start Lat/Lon: 32.8974 / -96.6753

End Date: 10/19/2019
End Time: 09:30 PM CDT
End Location: Garland / Dallas County / TX
End Lat/Lon: 32.9099 / -96.6377

Survey Summary:

The tornado started on Kenmore Street just north of West Miller Road where part of a Sears Facility warehouse was heavily damaged. A wide section of the metal roof was peeled off and subsequently the adjacent metal walls were also torn away. Some of the interior support columns and beams were bent, causing another part of the roof to collapse. In addition, an empty 18 wheeler was tipped over and a van was also on its side. The tornado then struck a newly built warehouse to the east of this facility where nearly the entire building collapsed. The interior support columns were bent to the ground in this facility as the pre-case concrete tilt-up walls collapsed to the east. The damage to these two facilities indicated high end EF-2 damage with winds of 135 mph. Damage from the second warehouse was blown into the adjacent neighborhood to the east across Shiloh Road and damaged some homes. The tornado also snapped and uprooted many trees and damaged many roofs and homes along its path through the residential area from Shiloh Road to Garland Avenue. Roof damage consisted of a combination of loss of decking and shingles. Some roofs were also damaged by fallen trees and other debris. One house in particular on the corner of Westway Avenue and Patricia Lane sustained damage to the garage which partially collapsed. Damage in this neighborhood was consistent of EF-0 and EF-1 damage. The tornado then moved across Garland Ave towards Central Park damaging more roofs and trees near Degge Circle, and then damaging baseball fields and fences at the park. The tornado continued northeast from the park causing minor damage as it weakened, dissipating near Avenue D and Santa Fe Street.

.Rowlett/Sachse Tornado...

Rating: EF1

Estimated Peak Wind: 100 mph
Path Length /statute/: 6.02 miles
Path Width /maximum/: 500.0 yards
Fatalities: 0
Injuries: 0

Start Date: 10/20/2019
Start Time: 09:36 PM CDT
Start Location: 1 NW Rowlett / Dallas County / TX
Start Lat/Lon: 32.9237 / -96.5697

End Date: 10/20/2019
End Time: 09:45 PM CDT
End Location: 4 SSE Wylie / Rockwall County / TX
End Lat/Lon: 32.9802 / -96.4974

Survey Summary:

The onset of damage with this path began along Larkin Lane in Rowlett with a few trees and roofs damaged. The track continued east northeast with the greatest intensity of damage observed in the 4600 block of Hilcox Road just before PGBT where one home lost most of the roof and saw severe window damage and the garage exterior walls collapsed. Several metal outbuildings and barns on this and adjacent properties were also severely damaged or destroyed. Multiple trees were snapped or uprooted along with power poles collapsed. The tornado moved over the east side of the PGBT where several houses and barns sustained significant roof damage or shingles removed. The damage track continued north/northeast near the Pleasant Valley neighborhood. A video shows this tornado as it was over Lake Ray Hubbard where it likely lifted before reaching the far shore.

.Ferris Tornado...

Rating: EF0
Estimated Peak Wind: 85 mph
Path Length /statute/: 0.18 miles
Path Width /maximum/: 170.0 yards
Fatalities: 0
Injuries: 0

Start Date: 10/20/2019
Start Time: 09:42 PM CDT
Start Location: Ferris / Ellis County / TX
Start Lat/Lon: 32.5332 / -96.6664

End Date: 10/20/2019
End Time: 09:44 PM CDT
End Location: Ferris / Ellis County / TX
End Lat/Lon: 32.5324 / -96.6635

Survey Summary:

A tornado touched down briefly near Main Street and Highway 45/Central Street in Ferris. A silo near 7th and Main Streets sustained damage and partially collapsed. There was roof damage to multiple business buildings south of 5th Street and along Main and Central Streets. A downed power pole and an uprooted tree were also noted in the same area. The damage was consistent with winds speeds between 75 and 85 mph, or EF-0 intensity. Sporadic wind damage was found across other portions of Ferris with damage mainly to trees and roofing.

.Rockwall Tornado...

Rating: EF1
Estimated Peak Wind: 90 mph
Path Length /statute/: 1.96 miles
Path Width /maximum/: 150.0 yards
Fatalities: 0
Injuries: 0

Start Date: 10/20/2019
Start Time: 09:48 PM CDT
Start Location: 2 WNW Rockwall / Rockwall County / TX
Start Lat/Lon: 32.9312 / -96.4864

End Date: 10/20/2019
End Time: 09:54 PM CDT
End Location: 1 N Rockwall / Rockwall County / TX
End Lat/Lon: 32.9393 / -96.4545

Survey Summary:

Wind damage was observed in Rockwall generally parallel with and north of US 66, from the eastern shore of Lake Ray Hubbard into northeastern Rockwall. The most intense damage was observed close to the lake, along Sunset Hill Drive where several homes sustained significant roof damage. As the damage path continued farther east across SH 205 damage consisted of downed trees and fences and missing shingles on roofs. Based on eyewitness accounts and video footage, a tornado, with maximum rated wind speeds of 90 mph, or EF-1 has been confirmed. The tornado is believed to have developed over Lake Ray Hubbard with a path length of almost 2 miles.

.Kaufman County #1 Tornado...

Rating: EF0
Estimated Peak Wind: 80 mph
Path Length /statute/: 0.13 miles
Path Width /maximum/: 50 yards

Fatalities: 0
Injuries: 0

Start Date: 10/20/2019
Start Time: 10:27 PM CDT
Start Location: 2 NNW Post Oak Bend City / Kaufman County / TX
Start Lat/Lon: 32.6661 / -96.3241

End Date: 10/20/2019
End Time: 10:27 PM CDT
End Location: 2 NNW Post Oak Bend City / Kaufman County / TX
End Lat/Lon: 32.668 / -96.3241

Survey Summary:

A tornado briefly formed approximately 5 miles north of the City of Kaufman, partially removing a portion of metal roofing from a single-family residence. A large section of this roofing was blown back toward the southwest, into a powerline. A nearby power pole was also partially snapped. The tornado dissipated shortly after impacting this residence.

.Kaufman County #2 (Elmo) Tornado...

Rating: EF1
Estimated Peak Wind: 105 mph
Path Length /statute/: 0.53 miles
Path Width /maximum/: 500.0 yards
Fatalities: 0
Injuries: 0

Start Date: 10/20/2019
Start Time: 10:39 PM CDT
Start Location: 7 E Oak Ridge / Kaufman County / TX
Start Lat/Lon: 32.6708 / -96.1393

End Date: 10/20/2019
End Time: 10:41 PM CDT
End Location: 7 E Oak Ridge / Kaufman County / TX
End Lat/Lon: 32.6784 / -96.138

Survey Summary:

A tornado formed in open country approximately 3.5 miles SE of Elmo. Moving northeastward, this tornado removed sheet metal from an outbuilding on ranch property. Immediately after crossing Kaufman County Road 314, the tornado intensified, snapping two power poles along CR 314 and impacting a single family residence and adjacent outbuildings. An adjacent metal barn was severely damaged, with the sheet metal roof almost completely removed and

steel trusses severely bent. Several large trees on the property were snapped or sustained major trunk damage. A personal weather station on the roof of the home measured a wind gust of 100 mph during the tornado, and damage elsewhere on the property was consistent with 95-105 mph EF-1 intensity windspeeds.

.Wills Point Tornado...

Rating: EF0
Estimated Peak Wind: 78 mph
Path Length /statute/: 0.63 miles
Path Width /maximum/: 200.0 yards
Fatalities: 0
Injuries: 0

Start Date: 10/20/2019
Start Time: 10:59 PM CDT
Start Location: 2 N Wills Point / Van Zandt County / TX
Start Lat/Lon: 32.7353 / -96.0054

End Date: 10/20/2019
End Time: 11:04 PM CDT
End Location: 2 NNE Wills Point / Van Zandt County / TX
End Lat/Lon: 32.7353 / -95.9946

Survey Summary:

The supercell thunderstorm that spawned the 2 Kaufman County tornadoes moved eastward and produced an additional brief tornado in Van Zandt County near Wills Point. The tornado formed 1/4 mile east of Van Zandt County Road 3801, tracking east through a neighborhood of manufactured homes along Van Zandt County Road 3849. The tornado was approximately 200 yards wide and was on the ground for a little more than 1/2 mile in its 5 minute lifespan. The tornado dissipated just east of Lake Dr. (Highway 47). Multiple roofs sustained damage, mainly on the south side of Van Zandt County Road 3849. Multiple sheds and carports were overturned and damaged. A few small trees were uprooted and tree branches were broken on numerous trees, all consistent with EF-0 damage between 70 and 78 mph.

.Allen Tornado...

Rating: EF0
Estimated Peak Wind: 80 mph
Path Length /statute/: 4.8 miles
Path Width /maximum/: 500.0 yards
Fatalities: 0
Injuries: 0

Start Date: 10/21/2019

Start Time: 12:22 AM CDT
Start Location: 3 W Allen / Collin County / TX
Start Lat/Lon: 33.1169 / -96.7272

End Date: 10/24/2019
End Time: 12:27 AM CDT
End Location: 1 WSW Fairview / Collin County / TX
End Lat/Lon: 33.1326 / -96.6481

Survey Summary:

A line of thunderstorms along an advancing cold front spawned a tornado in west Allen, in the vicinity of Exchange Parkway and Ridgeview Drive. The tornado traveled east northeastward, roughly coincident with Ridgeview Drive, snapping large tree limbs/trunks, pulling shingles off a number of residences, and blowing down wood fencing and a stone wall. The tornado crossed US-75 and impacted the Village at Fairview commercial district, damaging roofs and facades. It dissipated shortly east of this area. A few of the uprooted trees and snapped trunks were consistent with 80 mph winds.

.Stephenville Downburst Wind Event...

Estimated Peak Wind: 80 mph
Path Length /statute/: 2.50 miles
Path Width /maximum/: 1.0 miles
Fatalities: 0
Injuries: 0

Start Date: 10/21/2019
Start Time: 12:15 AM CDT
Start Location: 1.25 W of Stephenville /Erath County/
Start Lat/Lon: 32.21/-98.23

End Date: 10/21/2019
End Time: 12:20 AM CDT
End Location: 1.25 SE of Stephenville /Erath County/
End Lat/Lon: 32.21/-98.18

Survey Summary:

A line of severe thunderstorms moved across Erath County, producing a pattern of downburst straight-line wind damage within the City of Stephenville. Minor tree damage, consistent with 50 mph winds, was first observed approximately 3 blocks west of the Tarleton State University campus. Wind damage increased on the Tarleton campus proper, highlighted by widespread tree branch and trunk damage, and the partial removal of roofing material from a multi-story dormitory building. Maximum wind speeds at this dorm were estimated at 75 mph, based on the severity of the damage. Several other buildings on the Tarleton campus also sustained minor damage. East of campus, numerous trees were damaged toward the downtown areas of Stephenville, and at

least one porch roof was detached from a single-family home. The roof of the main fire station in downtown Stephenville sustained major damage, as large sections of metal roofing material were removed from the structure and deposited in the street. Straight line wind speeds at this fire station were estimated to be 80 mph. Adjacent businesses in the downtown area also received minor wind damage - mainly to window glass and roof fascia. Additional scattered tree damage was observed just east through south of downtown Stephenville. The downburst appeared to dissipate near the intersection of US Highway 281 and US Highway 377 on the east side of the city.

.Farmersville Downburst Wind Event...

Rating: TSTM/Wind
Estimated Peak Wind: 85 mph
Path Length /statute/: 0.51 miles
Path Width /maximum/: 850.0 yards
Fatalities: 0
Injuries: 3

Start Date: 10/21/2019
Start Time: 12:46 AM CDT
Start Location: 3 SE Farmersville / Collin County / TX
Start Lat/Lon: 33.1363 / -96.3194

End Date: 10/21/2019
End Time: 12:47 AM CDT
End Location: 3 ESE Farmersville / Collin County / TX
End Lat/Lon: 33.1371 / -96.3107

Survey Summary:

The same line of storms that produced the Allen tornado moved east and produced a brief downburst wind event east of Farmersville. Approximately 15 homes were damaged by straight line winds to the southeast of Farmersville on CR 697. One mobile home was rolled approximately 100 feet and destroyed, resulting in injuries to 3 of the occupants. Damage to the other homes in the area consisted primarily of minor roof damage and damage to underpinning.

EF Scale: The Enhanced Fujita Scale classifies tornadoes into the following categories:

EF0...Weak.....65 to 85 mph
EF1...Weak.....86 to 110 mph
EF2...Strong....111 to 135 mph
EF3...Strong....136 to 165 mph
EF4...Violent...166 to 200 mph
EF5...Violent...>200 mph

NOTE:

The information in this statement is preliminary and subject to change pending final review of the events and publication in NWS Storm Data.

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Bain/Barnes/Bonnette/Bradshaw/JLDunn/Fano/Garcia/Gudmestad/Hoeth/McKinney/
Ryan/Sanchez/Stoflet/