



National Weather Service

Storm Data and Unusual Weather Phenomena



October 2005

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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GULF OF MEXICO

GMZ250 Bob Hall Pier	Pt Aransas To Baffin Bay Tx Out 20Nm 11 1406CST Measured by Bob Hall Pier TCOON.				0	0			Marine Tstm Wind (MG37)
GMZ250 Bob Hall Pier	Pt Aransas To Baffin Bay Tx Out 20Nm 11 1936CST Measured by Bob Hall Pier TCOON.				0	0			Marine Tstm Wind (MG34)
GMZ255 Port O'Connor	Matagorda Ship Chnl To Pt Aransas Out 20Nm 31 1824CST 1836CST Measured by Texas A&MCC DNR TCOON site.				0	0			Marine Tstm Wind (MG42)
GMZ235 Port O'Connor	Pt O'Connor To Aransas Pass 31 1824CST 1836CST Estimated from nearby Texas A&MCC DNR TCOON site.				0	0			Marine Tstm Wind (EG42)
GMZ235 32 SW Seadrift	Pt O'Connor To Aransas Pass 31 1836CST Measured by Rockport(RKP) ASOS.				0	0			Marine Tstm Wind (MG37)
GMZ250 Port Aransas	Pt Aransas To Baffin Bay Tx Out 20Nm 31 1900CST 1905CST Measured by PTAT2.				0	0			Marine Tstm Wind (MG50)
GMZ250 Bob Hall Pier	Pt Aransas To Baffin Bay Tx Out 20Nm 31 1930CST Measured by Texas A&MCC DNR TCOON site.				0	0			Marine Tstm Wind (MG51)
GMZ230 South Bird Island	Corpus Christi To Baffin Bay 31 1942CST Measured by Texas A&MCC DNR TCOON site.				0	0			Marine Tstm Wind (MG44)
GMZ230 Baffin Bay	Corpus Christi To Baffin Bay 31 2000CST Measured by Texas A&MCC DNR TCOON site.				0	0			Marine Tstm Wind (MG60)
GMZ270 45 E Baffin Bay	Pt Aransas To Baffin Bay Tx 20 To 60Nm 31 2103CST Estimated from nearby buoy 42020.				0	0			Marine Tstm Wind (EG45)

TEXAS, Mid - South

Webb County Laredo	11 1015CST 1130CST				0	0			Flash Flood
<p>Heavy rainfall led to flash flooding of numerous city streets throughout Laredo. A few cars became stuck in the water, leading to high water rescues. At one point, water was over Loop 20 near the Laredo International Airport. 1.72 inches of rainfall was recorded at the airport in 33 minutes.</p>									



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TEXAS, Mid - South

**Nueces County
Corpus Christi**

11	1412CST 1500CST				0	0			Flash Flood
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Numerous city streets flooded on south side of Corpus Christi. Up to 1 foot of water was observed over the frontage road of S.P.I.D. at Everhart. Radar estimates, as well local rainfall spotters, confirmed 3 to 5 inches of rain fell across much of the south side of Corpus Christi.

**La Salle County
14 N Cotulla Muni Arpt**

27	1340CST				0	0			Thunderstorm Wind (EG52)
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Gusts were estimated by trained spotter 4 miles north of Millet, or just south of Dilley, on I-37.

**Duval County
6 N Freer**

27	1609CST				0	0			Hail(0.88)
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**Duval County
6 N Freer**

27	1609CST				0	0			Thunderstorm Wind (EG60)
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Telephone poles reported blown down along Highway 16, north of Freer. Winds were estimated between 60 and 80 mph.

**Duval County
7 E Freer**

27	1630CST				0	0			Hail(1.00)
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Quarter size hail observed to be 4 inches deep in some spots along Highway 44.

**Duval County
12 SE Freer**

27	1645CST				0	0	1K		Thunderstorm Wind (EG70)
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NWS storm survey observed roughly half a dozen power poles broken in half along FM 3196 just north of Highway 44. The power poles were lying towards the southeast suggesting straight line winds. Winds were estimated between 70 and 80 mph.

**Duval County
Rosita**

27	1647CST				0	0			Hail(0.88)
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Nickle size hail was observed 4 inches deep be residents in Rosita.

**Duval County
Rosita**

27	1647CST				0	0	5K		Thunderstorm Wind (EG70)
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A NWS storm survey observed minor damage to homes in Rosita, which included windows blown out and roof damage on the northwest side of structures. Powerlines and tree limbs were also observed down, lying in a southeast direction. Damage suggested straight line winds. Winds were estimated between 70 and 80 mph.

**Duval County
Rosita**

27	1700CST 1800CST				0	0			Flash Flood
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An NWS storm survey that was documenting wind damage in Rosita observed indications that a flash flood occurred along Rosita Creek in the town of Rosita. Residents also confirmed that the low water crossing over the creek became impassable



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					Killed	Injured	Property	Crops	

TEXAS, Mid - South

Duval County

5 SW San Diego to
10 SW San Diego

27	1710CST				0	0	5K		Thunderstorm Wind (EG78)
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An NWS storm survey observed roughly a dozen power poles broken, as well as large branches of mesquite trees down, along a 4 to 5 width of Highway 359 between San Diego and Benavides. All the power poles were blown down towards the southeast suggesting straight line wind damage. Winds were estimated between 80 and 100 mph.

Duval County

San Jose

27	1720CST				0	0			Hail(1.00)
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Quarter size hail was 4 to 6 inches deep in San Jose. Nearly 20 hours later drifts of dime size hail was observed still to be on the ground by an NWS storm survey team.

Duval County

San Jose

27	1720CST				0	1	150K		Thunderstorm Wind (EG87)
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Pictured above is what was left of a mobile home after being destroyed by straight line winds. Three residents inside the home survived, with one receiving minor injuries.

An NWS storm survey concluded straight line winds severely damaged roughly 15 homes, a community center and church. Nearly all the damage was observed on the northwest sides of the structures with debris scattered to the southeast. Two mobile home were completely destroyed, with one man injured that was inside one of the mobile homes. The two mobile homes that were completely destroyed were oriented north-northeast to south-southwest, perpendicular to the northwest to southeast straight-line winds observed on radar. The damage from the two mobile homes was thrown to the southeast roughly 20 yards. In addition numerous large trees and power poles were uprooted and broken, all lying to the southeast direction. Several vehicles were also damaged by the uprooted trees and debris from homes. Winds were estimated between 80 and 100 mph.



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TEXAS, Mid - South

Duval County

2 E San Jose to
6 SE San Jose

27 1725CST 0 0 40K Thunderstorm Wind (EG87)

An NWS storm survey observed straight-line wind damage along a 4 to 5 mile path from the intersection of FM 1329 and FM 2295 southward. Numerous large limbs on mesquite trees had been snapped as well as power lines and poles blown down. An empty grain silo was also destroyed and a newly framed house was blown of its foundation. All damage was lying towards the southeast direction. Winds were estimated between 80 and 100 mph.

Jim Wells County

4 NW Premont to
Premont

27 1800CST
1804CST 0 0 40K Thunderstorm Wind (EG78)

An NWS storm survey observed evidence of straight line wind damage in extreme southwest Jim Wells county, in and near Premont. A large empty grain silo was destroyed near CR 428 and CR 716 and lying in a southeast direction across the roadway. Power poles were knocked down and large limbs snapped off trees along CR 716 just west of Premont. Five homes along CR 716 were also observed to have minor window and roof damage. On garage was completely destroyed, with the debris blown downwind to the southeast. Large limbs of trees were also snapped in Premont. Winds were estimated between 70 and 90 mph.

Jim Wells County

2 S Premont

27 1805CST 0 0 Thunderstorm Wind (EG65)

18 wheeler was flipped on its side on U.S. 281 just south of Premont.

On Thursday, October 27, 2005, a weak surface boundary extending from near Uvalde to Cotulla to Kingsville, separated warm moist air over the Rio Grande plains from drier and slightly cooler air across southeast Texas. In addition, the base of an upper level trough moved across south-central Texas Thursday afternoon. This feature provided some large scale lift and ushered colder mid and upper level air across the region, which destabilized the atmosphere as surface temperatures rose into the upper 70s and low 80s. The surface high pressure center to the northeast provided a moderate easterly flow near the surface which quickly turned southeast to south above the surface. In addition, modest westerlies existed in the mid and upper levels of the atmosphere. This vertical wind shear together with the modestly unstable atmosphere provided an environment favorable for rotating thunderstorms. During the afternoon scattered thunderstorms began to develop in the warm, unstable airmass across the Rio Grande Plains and deep south Texas. A few thunderstorms, which developed along the weak surface boundary, gained strength and became severe as they moved southeast along the boundary.

The event began as a strong storm developed near Zavala/Frio Counties in the western hill country. This storm quickly became severe as it crossed into La Salle County, gaining supercell characteristics as it traveled along the surface boundary across La Salle and southwest McMullen counties. Reports of dime to penny size hail and 60 mph wind gusts were received by storm spotters just south of Dilley in northern La Salle County. No storm reports were received in McMullen County, likely because of the lack of population and roadways through the area where the severe storm tracked.

The storm tracked through southwestern McMullen and northern Duval Counties, maintaining its strength while exhibiting strong convergence in the middle portions of the storm (MARC signature) at times. Another storm pulsed up across north-central Jim Wells County before weakening southeast of Alice. Outflow from this storm, as well as moderate to strong east to northeast flow across the Coastal Bend and southeast Rio Grande Plains, may have contributed to an enhanced area of wind shear across Duval County. As the La Salle/McMullen supercell thunderstorm moved into this area across Duval County, the thunderstorm circulation steadily deepened and strengthened. Doppler radar showed a reflectivity notch developing right along the above mentioned boundary associated with the increased storm rotation. A Tornado Vortex Signature developed near this notch prompting a tornado warning. Prior to the tornado warning, severe thunderstorm warnings were present through the life of this storm due to strong hail signatures and severe straight line wind indications seen on doppler radar.

A NWS storm survey team toured Duval and Jim Wells counties and concluded the damage was largely a result of straight line winds from a long track supercell thunderstorm. However, it cannot be ruled out that an isolated tornado was embedded in the storm. Wind speeds were estimated to range from 80 to 100 mph which is equivalent to an F1 tornado on the Fujita damage scale. The damage swath, which was approximately 4 to 5 miles in width and over 40 miles in length, stretched from just east of Freer to near Premont.



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TEXAS, Mid - South

Broken windows and roof shingle damage on all properties was observed on the northwest side, which indicated straight line wind damage and the wind blowing from the northwest to the southeast. American Electric Power (AEP) crews on the scene reported that roughly 100 power poles were knocked down across Duval and Jim Well counties. The NWS team assessed that all poles were blown in the downwind direction to the southeast.

Visible damage began near Highway 44 and FM 3196, where roughly half a dozen power poles were split in half. The damage continued in the community of Rosita in which houses experienced minor damage. Hail was also reported up to 4 inches in depth. Indications that flash flooding occurred on Rosita Creek was observed.

The storm appeared to strengthen as it approached the northeast side of Benavides and the town of San Jose. Two mobile homes were destroyed and tree limbs were broken with all damage lying in a southeast direction. Fifteen homes were damaged in San Jose with window and roof damage on the northwest side, which again indicates the wind blew from the northwest to the southeast.

Just southeast of San Jose, near the intersection of FM 2295 and FM 1329 and extending south all the way to Rios, tree limbs and power poles were broken and lying in a southeast direction. An empty grain silo was also destroyed and a newly framed home was blown off its foundation.

In extreme southwest Jim Wells county near the intersection of county road 428 and 716, a large empty grain silo was destroyed and lying in the middle of the roadway. Power poles were knocked down, 5 homes were damaged, and 1 garage was completely destroyed. Again all the visible damage was lying in a southeast direction.

Eye witness reports indicate that nickel to quarter sized hail covered the ground up 4 to 6 inches deep along the entire storm track.

**Victoria County
Nursery**

	31	1650CST		0	0		Hail(1.00)
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**Victoria County
17 N Victoria**

	31	1655CST		0	0		Hail(1.00)
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Quarter size hail at U.S. 77 and Hwy 444 in far northern Victoria County.

**Refugio County
9 NE Refugio**

	31	1750CST		0	0		Hail(0.75)
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Penny size hail reported at Copano Creek and U.S. 77.