Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
TEXAS, South				
ZAPATA COUNTY 1.5 NN	E ZAPATA ARPT [26.90, -99.27]			
	05/14/08 19:43 CST		0	Hail (1.00 in)
	05/14/08 19:58 CST		0	Source: Emergency Manager
Zapata County emergency ma stones fell in Zapata.	nager reported quarter size hail fell in do	owntown Zapata.	The public also r	reported quarter size hail with some even larger ha
ZAPATA COUNTY 1.5 NN	W ZAPATA ARPT [26.90, -99.29], 2.0 E	SE ZAPATA AR	_	_
	05/14/08 19:50 CST 05/14/08 20:05 CST		0.75M 0	Thunderstorm Wind (EG 65 kt)
	05/14/08 20:05 CST		0	Source: NWS Storm Survey
neighborhood of Falcon Mesa and live oak trees were blown neighborhood along Oak Stree	along FM 3074, numerous barrel tiles we down, and minor damage to roofs was net, just south of the Zapata Cemetary.	vere torn from the noted at other hor	e roof; in the sam nes. Similar tree	
County cemetary. On the sam		umerous holes in	its west facing w	pair, at a facility between FM 3074 and the Zapata vall, from wind driven pebbles and stones. The in half.
	s seen just west of the center of town, aled to many units at the Highway 496 Sto		1/3 mile west of	the intersection of Federal Highway 83. Here,
slamming it into the second bu connections of the eaves. Mis	ilding about 50 feet to the east. While the	e truss and braci into both cindert	ng of the roof app block, and an indi	nd most of the roof up and over the first building, peared sound, only long nails were found at the ividual metal garage, in the second building. Anoth ward side of the second building.
structures with poorly anchore		amage; a large p	ortion of tin roof	southwest part of town. Dozens of homes and other was removed from a two story church a few sed at least one unit to be uninhabitable.
library. As the storm finally ed		noted in the Falco	on Lake Estates s	ped off, some onto roofs, including the town's public subdivision, just south of the bridge, where a repor
The Zapata County Emergeno power at 9 pm.	y Manager reported power lines and sev	veral trees were o	lown in Zapata aı	nd approximately 200 to 300 people were without
				ally along and just south of FM 496 from just west width was estimated to be about 1.5 miles.
of the cemetary to highway 83	. Total path longin was estimated to be			
	E ZAPATA ARPT [26.91, -99.27]			
			0	Hail (1.00 in) Source: Public

ZAPATA COUNTY 2.2 NNE ZAPATA ARPT [26.91, -99.27]			
05/14/08 19:59 CST	0	Hail (1.00 in)	
05/14/08 20:14 CST	0	Source: Public	

The public reported that nickel to quarter size hail continued to fall across much of the city of Zapata. The event, which began at 8:43 PM CDT, may have lasted for a total of 40 minutes in some locations in and around Zapata.

ZAPATA COUNTY 6.0 SE ZAPATA [26.84, -99.16]				
05/14/08 20:15 CST	0	Hail (1.75 in)		
05/14/08 20:25 CST	0	Source: Public		

The public reported hail up to 1.75 inches was observed falling approximately 6 miles southeast of Zapata along US highway 83, as the supercell thunderstorm began edging toward Starr County.

STARR COUNTY 0.7 S EL SAUZ [26.57, -98.87]				
05/14/08 20:41 CST	1K	Thunderstorm Wind (EG 55 kt)		
05/14/08 20:41 CST	0	Source: Law Enforcement		

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Storm Data and Unusual Weather Phenomena - May 2008

Location Date/Time Deaths & Property & **Event Type and Details** Iniuries Crop Dmg Law enforcement in Starr County reported numerous trees blown down on FM 649 near El Sauz. STARR COUNTY --- 2.0 S VIBORAS [26.72, -98.83], LA GLORIA [26.72, -98.52] 05/14/08 20:48 CST 2K Thunderstorm Wind (EG 55 kt) 05/14/08 21:03 CST Source: Law Enforcement Power lines down, and power outages, were reported across a large part of Starr County as a developing line of severe thunderstorms moved through. One of the strongest cells likely produced some of these power outages between Viboras and La Gloria along Farm-to-Market road 2686. BROOKS COUNTY --- 0.5 NW ENCINO [26.94, -98.14] 05/14/08 20:57 CST 5K Thunderstorm Wind (FG 50 kt) 05/14/08 21:00 CST 0 Source: Law Enforcement Law enforcement in Brooks County reported power lines down and power outages near Encino due to a thunderstorms moving through the area with high winds. STARR COUNTY --- ROMA [26.42, -99.02] 5K 05/14/08 21:30 CST Thunderstorm Wind (EG 50 kt) 05/14/08 21:35 CST Source: Law Enforcement Law enforcement in Starr County reported power lines down and power outages occurred in Roma due to high winds from strong to severe thunderstorms in and near the area. The combined effects of a developing subtropical jet stream, a weak upper level disturbance propagating northeastward from Mexico, a weak surface boundary moving south into Deep South Texas, and a very unstable atmospheric profile across the western Lower Rio Grande Valley and Rio Grande Plains, produced strong to severe thunderstorms over northern Mexico and the western and central counties of the Lower Rio Grande Valley during the late evening of May 14th. (TX-Z248) ZAPATA, (TX-Z249) JIM HOGG, (TX-Z250) BROOKS, (TX-Z251) KENEDY, (TX-Z252) STARR, (TX-Z253) HIDALGO, (TX-Z254) WILLACY, (TX-Z255) CAMERON 05/08/08 00:00 CST 0 0 05/31/08 23:59 CST Severe to Extreme drought conditions were noted in Deep South Texas and the Lower Rio Grande Valley at the start of May, but an update to the State Drought Monitor based on locally heavy rainfall at the end of April would briefly reduce conditions in some areas. (TX-Z248) ZAPATA, (TX-Z249) JIM HOGG, (TX-Z250) BROOKS, (TX-Z252) STARR, (TX-Z253) HIDALGO 0 05/22/08 00:00 CST Drought 05/31/08 23:59 CST A week long period of unsettled weather across Deep South Texas and the Lower Rio Grande Valley between May 11th and May 17th not only brought scattered severe thunderstorms to the region, but also periods of light to moderate rain which put a brief, but notable, dent into the drought in some areas. Unfortunately, a return to dry and hot weather toward the end of the month would largely erase the relief brough by the unsettled conditions.

(TX-Z249) JIM HOGG, (TX-Z250) BROOKS, (TX-Z251) KENEDY, (TX-Z252) STARR, (TX-Z253) HIDALGO

05/29/08 00:00 CST Drought

05/31/08 23:59 CST 0

After some mid month relief in the form of unsettled and locally wet weather, dry and hot conditions returned to close out May, with near record heat just before Memorial Day helping increase the rate of drying. Extreme and severe drought areas had expanded slightly by the end of May due to below normal rainfall occurring over most of Deep South Texas; continued hot and dry weather into June would further expand these Drought areas, though not to the levels seen in mid April, when Exceptional Drought touched the western Lower Rio Grande Valley.

HIDALGO COUNTY --- 6.4 N LINDSAY GARDENS [26.37, -98.34], 1.7 ENE EDINBURG YARD [26.34, -98.14]

05/16/08 02:02 CST 0.13M Thunderstorm Wind (EG 61 kt) 05/16/08 02:20 CST 0 Source: Law Enforcement

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Storm Data and Unusual Weather Phenomena - May 2008

Location	Date/Time	Deaths &	Property &	Event Type and Details
		Injurios	Cron Dma	

A microburst descending from a potent severe thunderstorm first produced damage just north of Alton, at a mobile home park near the intersection of Moorefield (Farm to Market Road 681) and Monte Cristo (Farm to Market Road 1925). In this neighborhood, at least six mobile homes were overturned by the winds, generally along and near the intersection of 9 1/2 Mile Road and Inspiration Road. Just to the northeast, in the Las Cañas colonia along and north of Monte Cristo, the combination of a pulse microburst striking a number of very poorly constructed homes led to the destruction of 14 mainly trailer-type residences, near the intersection of Monte Cristo (Farm to Market Road 1925) and Farm to Market (FM) 681.

In a number of cases, the residences were completely demolished. A total of 13 persons sustained minor injuries requiring transport to local hospitals. By mid afternoon on the 16th, all were released. While the majority of injuries were minor, in one instance, a 3 year old girl had to be rescued from a pile of rubble that was once an unanchored trailer home. In addition to the building damage, at least eight wooden telephone poles were pulled down.

The damage track continued to the east southeast, generally along and north of FM 1925, at least to the intersection of FM 1925 and Federal Highway 281, twelve miles away. The vast majority of damage beyond the Las Cañas neighborhood was hundreds of downed limbs from mesquite trees. Based on assessment from an NWS survey team, peak winds were between 65 and 70 mph, with the highest values likely where the telephone poles were pulled down in the Las Canas colonia, and again in the mesquite stand about two miles east.

Based on radar signatures, it is possible that winds of 60 mph or greater continued into rural locations of eastern Hidalgo County, north of Edcouch and Elsa.

CAMERON COUNTY --- SANTA ROSA [26.25, -97.83]

 05/16/08 02:50 CST
 50K
 Thunderstorm Wind (EG 70 kt)

 05/16/08 02:53 CST
 0
 Source: Law Enforcement

The same severe thunderstorm that rolled a number of trailer homes, ripped a roof off of an industrial building, and blew down hundreds of trees and limbs in central Hidalgo County continued to maintain strength while racing into northwest Cameron County. Wind gusts estimated near 80 mph damaged homes in Santa Rosa, and flipped two vehicles along Farm to Market Road 506, including a pickup truck on a driveway near the intersection of Orphanage and Louisiana. A number of power lines were also down in the area.

CAMERON COUNTY --- 2.0 WSW HARLINGEN AIRPARK AR [26.22, -97.68], 3.4 SSE MONTE GRANDE [26.22, -97.51]

05/16/08 03:15 CST 0 Source: ASOS

The severe thunderstorm which caused structure, vehicle, and power line damage moments earlier in Santa Rosa roared into the northern portion of Harlingen, eventually producing an 86 mph wind gust at Valley International Airport (KHRL) at exactly 405 AM, which blew off portions of three hangar roofs on the airport grounds. Pieces from one of these roofs, made of heavier asphalt underlines, knocked out at least two large windows in the control tower! In a nearby neighborhood just west of the airport, generally well constructed buildings fared well; however, dozens of large tree limbs were snapped and some fences were partially blown down.

The storm continued to produce damage farther east, with a 25 square foot portion of one residence's roof ripped away by the winds in Las Yescas. The storm gradually weakened as it headed through largely uninhabited eastern Cameron County, on its way to dissipation in the Gulf.

A strong thunderstorm developed in Starr County line a little after 2 AM on the 16th, than quickly strengthened and became severe while moving from eastern Starr County in Hidalgo County a little before 3 AM. The potent and persistent cell then swept rapidly east through central Hidalgo and into northern Cameron County between 3 AM and 415 AM, finally weakening as it approached the coast.

The storm, which produced 70 mph and higher gusts in its long lived core, left more than \$250 thousand in propety damage in its wake, along with at least 9,000 customers powerless from Alton and Edinburg in Hidalgo County to Harlingen and Las Yescas in Cameron County.

(TX-Z248) ZAPATA, (TX-Z252) STARR, (TX-Z253) HIDALGO, (TX-Z255) CAMERON

05/22/08 14:00 CST 0 Heat

05/23/08 17:00 CST 0

Deepening surface low pressure across the western Great Plains increased south to southeasterly flow of warm and very humid air into the Lower Rio Grande Valley toward the end of the week prior to the Memorial Day Holiday weekend. This flow pattern combined with a warmer than average middle and upper atmosphere to allow temperatures to surge well above normal, culminating in the hottest ambient temperatures of the spring on May 23rd, ranging from 102 in Hidalgo County to near 110 in Zapata County. Unusually high dew point temperatures brought heat index values to between 110 and 121 in the same area.

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