## Storm Data and Unusual Weather Phenomena - May 2016

Location Date/Time Deaths & Property & Event Type and Details Injuries Crop Dmg

## TEXAS, South

IIDAEGO GOGITTI Z.7 WITT HARGIEL [20.40,	, -98.06], 0.2 WNW LA BLANCA [26.30			
	05/14/16 16:35 CST	0.50M	Thunderstorm Wind (EG 56 kt)	
	05/14/16 16:55 CST	50K	Source: NWS Storm Survey	
Damage began along Farm to Market Road 490 w	est of Hargill, where a string of three p	ower poles were blown d	lown, as well as several 1 to 3 inch	
iameter mesquite limbs. Crops in a nearby grain f			-	
he San Carlos area east of Edinburg, where one p		<del>-</del>	· · · · · · · · · · · · · · · · · · ·	
oted to a single family home and multiple mobile ( east three dozen homes sustained structural dama		ors. In all, according to co	ounty officials and additional surveys, at	
Atmospheric energy combined with differential h	neating boundaries to kick off thunde	erstorm clusters across	the ranchlands during the	
afternoon. Boundaries from these cells would sp		-	-	
as it progressed through northern and central Hi				
to 65 mph winds from 4 miles west of Hargill to 5 crops, as well as to at least three dozen homes.	miles east of Edinburg. This downb	urst caused damage to	numerous power poles,	
nops, as well as to at least times dozen nomes.				
CAMERON COUNTY 0.4 ENE STUART PLACE	[26.18, -97.76]			
	05/15/16 10:50 CST	0	Heavy Rain	
	05/15/16 12:30 CST	0	Source: CoCoRaHS	
CoCoRaHS observer west of Harlingen reported 4.	.06 inches of rainfall in less than 2 hou	irs.		
CAMERON COUNTY 1.7 NNE STUART PLACE	• •			
	05/15/16 10:50 CST	0	Heavy Rain	
	05/15/16 12:30 CST	0	Source: CoCoRaHS	
CoCoRaHS observer west of Harlingen reported 3.	.55 inches of rainfall in less than 2 hou	Irs.		
CoCoRaHS observer west of Harlingen reported 3.				
Convection initiated across the Rio Grande Valle	ey as daytime heating combined with	daytime heating of a mo	-	
Convection initiated across the Rio Grande Valle mid-level disturbance moving into the area. Slow	ey as daytime heating combined with w moving thunderstorms dropped he	daytime heating of a mo	-	
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05/31/16 21:44 CST

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Source: NWS Storm Survey

0.50M

## Storm Data and Unusual Weather Phenomena - May 2016

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

Initial damage to tree limbs and some poorly built roofs in the Mission/Palmview area would intensify by the time the downburst reached the Madero and Granjeno communities, where more than 100 homes sustained varying levels of damage, dozens of power poles were felled, and hundreds of softwood trees were uprooted. Specific damage and associated impacts included the following: At least 150 homes and businesses sustained notable damage, and several dozen required significant repair. This included varied damage to nearly every building ( RV, trailer, and fixed structure) in the Chimney Park RV and Mobile Home Park along the Rio Grande, as well as the adjacent neighborhood of Madero. The State Farm Arena lost a large part of its cladding (side wall) and up to 40% of its roof shingles and underneath decking allowing rainwater to leak into the facility. A several thousand foot community center in the town of Granejo was destroyed as free-standing reinforced cinderblock walls crumbled, and the wind destroyed ductwork/ HVAC and an entire side wall on its way out of the building. A tractor trailer weighing 79,000 pounds, including freight, was moved and then tipped on its side in the community of Madero. Hundreds of softwood trees were uprooted and thousands of tree limbs were snapped, these included ash, mesquite, ebony, and palm. Dozens of wooden power poles were snapped, with more than 20,000 customers without power.

HIDALGO COUNTY PHARR [26.2	0, -98.18]			
	05/31/16 22:40 CST	0	Hail (1.75 in)	
	05/31/16 22:45 CST	0	Source: Emergency Manager	
City of Pharr Emergency Manager re	ported golf ball size bail couth of Pharr			
City of Phan Emergency Manager 16	ported goil ball size hall south of Fhan.			
HIDALGO COUNTY (MFE)MILLE				
		0	Thunderstorm Wind (MG 50 kt)	

The ASOS at KMFE reported wind gust of 58 mph.

A mini-supercell and associated downburst core moved across south central Hidalgo County beginning in the Palmview/Mission area and generally tracked along and just north of the Rio Grande before crossing the river southeast of Pharr. A NWS survey, combined with radar assessment, determined a path length of 19.4 miles and a path width, which varied, of 1 to 3 miles. Peak winds were estimated to be 85 to 95 mph, though 100 mph or greater winds may have occurred on elevated surfaces, particularly at the State Farm Arena in the city of Hidalgo. Peak winds pulsed at two phases of the storm, and likely lasted 5 or more minutes. Initial damage to tree limbs and some poorly built roofs in the Mission/Palmview area would intensify by the time the downburst reached the Madero and Granjeno communities, where more than 100 homes sustained varying levels of damage, dozens of power poles were felled, and hundreds of softwood trees were uprooted. In addition to the wind, one to two inch diameter hail fell, some of it driven by the strong winds.

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