

## Storm Data and Unusual Weather Phenomena - August 2015

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>TEXAS, South</b>				
<b>CAMERON COUNTY --- 1.0 S COMBES [26.24, -97.73], 1.9 N STUART PLACE [26.21, -97.78]</b>				
	08/17/15 17:05 CST		15K	Thunderstorm Wind (EG 52 kt)
	08/17/15 17:17 CST		0	Source: NWS Storm Survey
Microburst produced 60 mph winds that removed the roof from an old outbuilding roof, removed a new tin roof from an outdoor shed, as well as broken numerous tree limbs from mesquite, cottonwood, sycamore, and poplar trees.				
<b>CAMERON COUNTY --- 1.9 N STUART PLACE [26.21, -97.78], 1.4 SE ADAMS GARDENS [26.15, -97.79]</b>				
	08/17/15 17:17 CST		30K	Thunderstorm Wind (EG 56 kt)
	08/17/15 17:30 CST		0	Source: NWS Storm Survey
Microburst produced 60 to 65 mph winds that flipped an unanchored Gulfstream trailer, partially removed the roof at an auto dealership on Altas Palmas Road, knocked down telephone poles, as well as broken hundred of tree limbs from mesquite, cottonwood, sycamore, and poplar trees, two of which fell onto a residence and damaged the roof.				
<p><b>As a TUTT low centered itself across the Rio Grande Valley, unusually cold air well above the surface combined with low relative humidity above the clouds base, combined with the afternoon sea breeze to trigger clusters of thunderstorms. A boundary from one of these storms slid south into northern Cameron County, and helped launch an isolated storm that would ultimately cause tens of thousands in property damage. The storm moved west, and then south, affecting Primera, Palm Valley, and west Harlingen, including Interstate 2. The storm, which pulsed a microburst several times and caused damage along its path.</b></p>				
<b>HIDALGO COUNTY --- 2.8 WNW MISSION [26.23, -98.36]</b>				
	08/19/15 23:25 CST		0	Hail (1.75 in)
	08/19/15 23:30 CST		0	Source: Law Enforcement
Palmview Police Department reported golf ball size hail near the intersection of La Homa Road and U.S. Highway 83.				
<b>HIDALGO COUNTY --- MISSION [26.22, -98.32]</b>				
	08/19/15 23:25 CST		0	Hail (1.00 in)
	08/19/15 23:30 CST		0	Source: Law Enforcement
Mission Police Department reported quarter size hail throughout much of the city of Mission.				
<b>HIDALGO COUNTY --- 2.7 WSW PALMHURST [26.25, -98.36], 0.4 SW SHAYLAND [26.22, -98.28]</b>				
	08/19/15 23:33 CST		2K	Thunderstorm Wind (EG 43 kt)
	08/19/15 23:45 CST		0	Source: Law Enforcement
Mission Police Department reported power lines and large tree branches down due to strong winds at the intersection of Inspiration and FM 495 and in the 1400 block of Doherty.				
<b>HIDALGO COUNTY --- 2.0 NE SHAYLAND [26.24, -98.26], 0.2 SSE SAN JUAN [26.18, -98.17]</b>				
	08/19/15 23:40 CST		2K	Thunderstorm Wind (EG 52 kt)
	08/20/15 00:30 CST		0	Source: Law Enforcement
Estimated thunderstorm wind gusts of 50 to 60 mph knocked down trees and power lines across Pharr. The Pharr Police Department reported trees blown down at the intersection of Jackson and Ridge roads and on North Palm Road.				
<b>HIDALGO COUNTY --- MC ALLEN [26.20, -98.23], WESLACO [26.17, -97.98]</b>				
	08/20/15 00:00 CST		75K	Lightning
	08/20/15 02:00 CST		0	Source: Emergency Manager
At least five homes were struck by lightning and burned in spots in the McAllen Metro and Weslaco areas, some with considerable damage. Numerous lightning strikes were reported throughout Hidalgo County, resulting in utility pole and tree fires, and more than 30,000 residents without power at the peak of the storms.				
<b>HIDALGO COUNTY --- 0.6 W MADERO [26.17, -98.34], 3.0 NNW LINDSAY GARDENS [26.32, -98.34], 1.8 W EDINBURG MUNI ARPT [26.30, -98.23], 1.9 SSW (MFE)MILLER INTL ARP [26.14, -98.24]</b>				
	08/20/15 00:04 CST		0	Flash Flood (due to Heavy Rain)
	08/20/15 01:30 CST		0	Source: Law Enforcement

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<p>Between 4 to 6 inches of rain fell across Alton, Mission, and parts of McAllen leading to pockets of water up to three feet deep. Mission Police Department reported flood waters up to the tops of car tires throughout much of the city of Mission. Hidalgo County Sheriff's Office reported flooding resulting in impassable roads at the intersection of U.S. 83 and 23rd Street and U.S. 83 and Ware Road. The city of Alton sent one truck to pump water near Glasscock Boulevard and Main Street.</p>				

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<b>HIDALGO COUNTY --- 2.8 NW WESLACO [26.20, -98.01], 1.3 S MERCEDES [26.13, -97.92]</b>				
	08/20/15 00:45 CST		5K	Thunderstorm Wind (EG 52 kt)
	08/20/15 01:15 CST		0	Source: Emergency Manager

Estimated thunderstorm wind gusts of 50 to 60 mph knocked down trees and caused roof and antenna damage across the middle Rio Grande Valley, including the city of Weslaco.

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<b>HIDALGO COUNTY --- 0.7 WSW WESLACO [26.17, -97.99], 2.1 S PROGRESO [26.07, -97.96]</b>				
	08/20/15 01:00 CST		0	Heavy Rain
	08/20/15 04:00 CST		0	Source: Emergency Manager

Between 4 and 7 inches of rain fell over a three hour period across the Weslaco area. Weslaco Co-Op observer reported over 5 inches of rain.

**The combination of boundaries in the area and an extremely unstable airmass, led to the development of explosive thunderstorms across the mid Valley, during the late evening and overnight hours (apparent temperatures at McAllen were 100 degrees F at 10 pm (C2T) with the actual temperature at just under 90 F). These thunderstorms produced excessive lightning, quarter to golf ball size hail, strong and gusty winds, and flooding across the mid Valley area.**

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<b>CAMERON COUNTY --- 2.8 S LOS FRESNOS [26.03, -97.48], 1.9 NE RANCHO VIEJO [26.05, -97.53], 1.6 NW RANCHO VIEJO [26.05, -97.57], 1.2 SE VILLA NUEVA [25.94, -97.56], 2.3 SSW BROWNSVILLE [25.89, -97.51], 2.8 SSW PORTWAY ACRES [25.88, -97.48]</b>				
	08/31/15 13:00 CST		0.20M	Flash Flood (due to Heavy Rain)
	08/31/15 19:00 CST		0	Source: Emergency Manager

Much of greater Brownsville, particularly along and west of Paredes Line Road (FM 1847), was quickly inundated by one to four feet of water after nearly three hours of torrents dropped four to more than six inches of rain during the mid-afternoon. Numerous vehicles were flooded. A school bus became trapped near Price Road and southbound U.S. 77 Frontage. The flooding was most severe in the Galaxia Colonia. Dozens of properties had some water inundation, particularly west of U.S. 88. In west Brownsville, a resaca overflowed its banks and flooded Laredo Road. Numerous roads were inundated, including U.S. 77 just south of the 511 interchange, the intersection of 511 and Paredes, and Alton Gloor near U.S. 77.

**Shortly after noon, moisture deep in the atmosphere was activated by late morning/early morning heating, which triggered the sea breeze and boundaries set off by early morning storms. Between 2 and 4 pm, however, thunderstorms organized into a system of storms with broad rotation. The broad rotation maintained a core of very heavy rain from Rancho Viejo through downtown Brownsville, including all neighborhoods along and west of Paredes Line Road. Much of greater Brownsville, particularly along and west of Paredes Line Road (FM 1847), was quickly inundated by one to four feet of water after nearly three hours of torrents dropped four to more than six inches of rain during the mid-afternoon.**