

Storm Data and Unusual Weather Phenomena - April 2015

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
GULF OF MEXICO				
LAGUNA MADRE FROM 5NM N OF PT MANSFIELD TO BAFFIN BAY TX COUNTY --- 28.1 SSW S BAFFIN BAY [26.80, -97.47]				
	04/12/15 22:30 CST	0		Marine Thunderstorm Wind (MG 36 kt)
	04/12/15 22:30 CST	0		Source: C-MAN Station
Rincon del San Jose TCOON site reported a thunderstorm wind gust of 36 knots.				
LAGUNA MADRE FROM 5NM N OF PT MANSFIELD TO BAFFIN BAY TX COUNTY --- 6.9 NNW S BAFFIN BAY [27.30, -97.41]				
	04/12/15 22:42 CST	0		Marine Thunderstorm Wind (MG 37 kt)
	04/12/15 22:48 CST	0		Source: C-MAN Station
Baffin Bay TCOON site reported thunderstorm wind gusts in excess of 34 knots, with a peak gust of 37 knots.				
WATERS FROM BAFFIN BAY TO PT MANSFIELD TX EXT FROM 20 TO 60NM COUNTY --- 45.1 ESE S BAFFIN BAY [26.97, -96.69]				
	04/12/15 23:50 CST	0		Marine Thunderstorm Wind (MG 41 kt)
	04/12/15 23:50 CST	0		Source: Buoy
Buoy 42020 reported a thunderstorm wind gust of 41 kts.				
The squall line that raked across the Rio Grande Valley and Deep South Texas, sped across the lower Texas coastal waters, bringing numerous gale force gusts.				
LAGUNA MADRE FROM 5NM N OF PT MANSFIELD TO BAFFIN BAY TX COUNTY --- 6.9 NNW S BAFFIN BAY [27.30, -97.41]				
	04/14/15 07:06 CST	0		Marine Thunderstorm Wind (MG 49 kt)
	04/14/15 07:36 CST	0		Source: C-MAN Station
Baffin Bay TCOON site reported several thunderstorm wind gusts in excess of 34 knots, with a peak gust of 49 knots.				
LAGUNA MADRE FROM 5NM N OF PT MANSFIELD TO BAFFIN BAY TX COUNTY --- 28.1 SSW S BAFFIN BAY [26.80, -97.47]				
	04/14/15 07:48 CST	0		Marine Thunderstorm Wind (MG 37 kt)
	04/14/15 08:00 CST	0		Source: C-MAN Station
Rincon del San Jose TCOON site reported several thunderstorm wind gusts of gale force, with a peak gust of 37 knots.				
An upper level disturbance approached Deep South Texas and the lower Texas coastal waters overnight, allowing for the development of more strong thunderstorms. These thunderstorms brought gale force gusts to the Laguna Madre.				
LAGUNA MADRE FROM 5NM N OF PT MANSFIELD TO BAFFIN BAY TX COUNTY --- 28.1 SSW S BAFFIN BAY [26.80, -97.47]				
	04/24/15 23:12 CST	0		Marine Thunderstorm Wind (MG 42 kt)
	04/24/15 23:18 CST	0		Source: C-MAN Station
The Rincon del San Jose TCOON site reported several minutes of thunderstorm wind gusts in excess of 34 knots, with a peak gust of 42 knots.				
The strong thunderstorms that produced damaging winds across the Rio Grande Valley continued their trek across the Laguna Madre producing wind gusts in excess of 40 knots.				
TEXAS, South				
BROOKS COUNTY --- FALFURRIAS [27.23, -98.15]				
	04/10/15 14:10 CST	0		Hail (1.00 in)
	04/10/15 14:15 CST	0		Source: Social Media
Public reported quarter size hail in Falfurrias.				
STARR COUNTY --- 3.0 ESE LA CASITA [26.30, -98.66]				
	04/10/15 17:30 CST	0		Heavy Rain
	04/10/15 19:00 CST	0		Source: Law Enforcement

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Starr County Sheriffs Office reported street flooding occurring in the town of Alto Bonito . Estimated depth of water was up to a foot in some locations. An estimated 2.5 to 3 inches of rain fell.

HIDALGO COUNTY --- 0.7 WNW PENITAS [26.23, -98.46], 1.9 WSW PALMHURST [26.26, -98.35], 2.6 NNE LINDSAY GARDENS [26.32, -98.31], 4.5 NW EDINBURG YARD [26.37, -98.23], 2.7 SSW FAYSVILLE [26.38, -98.14], 3.1 ENE EDINBURG YARD [26.35, -98.12], 1.9 SE PALMHURST [26.25, -98.30], 0.4 S CHIHUAHUA [26.21, -98.42]

	04/10/15 18:00 CST		10K	Flash Flood (due to Heavy Rain)
	04/10/15 21:00 CST		0	Source: Emergency Manager

An estimated 4 to 6 inches of rain fell within a few hours. Poor drainage areas, particularly around the colonias of Alton along and near State Road 107, were hardest hit; several homes had standing water, up to 2 feet in depth, inside them. A foot of water was reported at the Penitas Shopping Plaza as well .

HIDALGO COUNTY --- 4.3 NW LINDSAY GARDENS [26.32, -98.37]

	04/10/15 18:00 CST		0	Heavy Rain
	04/10/15 21:00 CST		0	Source: COOP Observer

COOP observer northwest of Alton reported 4.50 inches of rainfall.

A dissipating cold front edged south to the Rio Grande during the afternoon and evening. Hot, humid air with temperatures to around 90 combined with the surface front and upper level energy to initiate rapidly developing storms across the region. Several storms became strong to severe, with one storm dropping quarter size hail in Falfurrias. Moisture pooling along and just behind the front aided storm redevelopment over the same areas, centered on southwest to central Hidalgo County. After the rains tapered, measured and estimated totals indicated 4 to 6 inches from Penitas/La Joya northeast through north Mission, Alton, and part of Edinburg. Poor drainage areas, particularly around the colonias of Alton along and near State Road 107, were hardest hit; several homes had standing water, up to 2 feet in depth, inside them.

ZAPATA COUNTY --- 2.9 N ZAPATA ARPT [26.92, -99.27], 2.5 NNE ZAPATA ARPT [26.91, -99.27]

	04/12/15 20:17 CST		10K	Thunderstorm Wind (EG 56 kt)
	04/12/15 20:30 CST		0	Source: Other Federal Agency

Dozens of limbs, trees, and powerlines were reported down across the city of Zapata.

HIDALGO COUNTY --- 0.9 SW MC ALLEN [26.19, -98.24]

	04/12/15 22:00 CST		1K	Thunderstorm Wind (EG 39 kt)
	04/12/15 22:05 CST		0	Source: Law Enforcement

Trees were reported down at the intersection of Frontage Road and Bicentennial in McAllen . A nearby automated sensor at McAllen/Miller International Airport reported a 43 mph gust.

Very unstable air along the Sierra Madre Oriental during the late afternoon of Sunday, April 12th was activated by a fairly potent upper level disturbance emanating from a persistent trough located along the Arizona/New Mexico border with Mexico. Several lines of storms, with bow-shaped segments, developed along/west of the Rio Grande from the Big Bend region southward deep into Mexico's Nuevo Leon and Coahuila State. One of these lines accelerated east and quickly reached Zapata County by mid evening on the 12th. The storm would rake the city of Zapata with estimated winds of 60 to 65 mph, knocking down dozens of limbs and power lines, however no structural damage was reported.

ZAPATA COUNTY --- 5.4 E FALCON RES NORTH [26.82, -99.16]

	04/18/15 20:22 CST		0	Hail (1.00 in)
	04/18/15 20:27 CST		0	Source: Law Enforcement

Zapata County Sheriffs Office reported quarter size hail near the city of Zapata.

A deep upper level disturbance moved from Canada south into the Rockies, linked up with the persistent subtropical jet farther south to generate widespread dangerous thunderstorms across Texas. Storms initiated just before sunset east of the Sierra Madre, and produced some action across the Upper Valley and ranchlands. Quarter size hail and 40 to 45 mph winds were observed in Zapata.

STARR COUNTY --- 1.1 WSW RIO GRANDE CITY [26.37, -98.84], 1.6 NW RIO GRANDE CITY [26.40, -98.84], 1.4 ENE RIO GRANDE CITY [26.39, -98.80], 1.3 W OLNOS [26.37, -98.80]

	04/24/15 00:00 CST		0	Flash Flood (due to Heavy Rain)
	04/24/15 03:00 CST		0	Source: Law Enforcement

Rio Grande City Police reported that 20 to 30 streets across the Rio Grande City were flooded with at least a foot of flowing water, that the police substation parking lot had 8 to 12 inches of water and that Highway 83 had 2 to 3 inches of water on the roadway. No homes were reported flooded in the city.

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The combination of daytime heating, divergence aloft, plenty of moisture, and the arrival of a shortwave trough allowed for showers and thunderstorms to develop over Nuevo Leon during the evening hours and move across the Rio Grande River and over Upper Valley, brush country, and ranchlands as an MCS. Torrential rainfall of an estimated 2 to 3 inches fell within an hour over Rio Grande City, flooding dozens of roads with up to a foot of flowing water.

HIDALGO COUNTY --- 2.8 S DONNA [26.13, -98.05], 2.6 NNW WESLACO [26.20, -98.00]

04/24/15 22:09 CST	0.10M	Thunderstorm Wind (EG 70 kt)
04/24/15 22:15 CST	0	Source: NWS Storm Survey

Microburst winds of 70 to 80 mph caused a large swath of damage across the Weslaco area. A newly constructed metal building had awning lifted, which helped tear off the front wall, the garage door was also blown in. Numerous softwood trees were blown down, some of which landed on homes, there were also numerous broken tree branches, power poles and lines were down as well. The winds rolled a poorly constructed and poorly anchored mobile home. Shingles were removed from the southwest side of one home and a wooden fence was blown down. One highway sign was reported to have been blown out of the ground along Highway 83. A metal pergola was destroyed on the southwest side of Weslaco.

HIDALGO COUNTY --- 3.8 SSE SAN CARLOS [26.23, -98.06], 3.7 SSE SAN CARLOS [26.23, -98.06]

04/24/15 22:11 CST	10K	Thunderstorm Wind (EG 61 kt)
04/24/15 22:15 CST	0	Source: NWS Storm Survey

Strong thunderstorm winds of 65 to 70 mph lifted a poorly anchored roof from a mobile home and moved a poorly constructed and poorly anchored mobile home off of its blocks.

HIDALGO COUNTY --- 2.0 SE SAN CARLOS [26.26, -98.06], 2.3 ESE SAN CARLOS [26.27, -98.05]

04/24/15 22:13 CST	0.13M	Thunderstorm Wind (EG 65 kt)
04/24/15 22:16 CST	0	Source: NWS Storm Survey

The strong damaging winds damaged and destroyed many properties. A barn, made of aluminum and tin and built in the 1930s, was completely destroyed. A number of poorly constructed mobile homes, that were not tied down, and had no or poorly anchored roofs were destroyed and rendered uninhabitable. One mobile home, completely unanchored, was rolled by the winds. One home lost portions of a metal roof.

CAMERON COUNTY --- 1.3 ESE BLUETOWN [26.06, -97.80], 0.1 SSE (HRL)RIO GRANDE ARPT [26.23, -97.65]

04/24/15 22:20 CST	2K	Thunderstorm Wind (EG 52 kt)
04/24/15 22:25 CST	0	Source: Law Enforcement

Cameron County Sheriffs Office and the La Feria Police Department reported trees blown down on Parker Road and on FM 506 South of Clark Road.

CAMERON COUNTY --- 1.9 SE STUART PLACE [26.16, -97.75], 0.6 NNE (HRL)RIO GRANDE ARPT [26.24, -97.65]

04/24/15 22:25 CST	10K	Thunderstorm Wind (EG 52 kt)
04/24/15 22:35 CST	0	Source: Law Enforcement

Cameron County Sheriffs Office reported trees blown down onto Hand Road in Combs, utility wires blown down onto the road in Primera, and a medium size tree down on a car in Primera. Harlingen Police Department reported two medium size trees blown down on Garrett Road in Harlingen.

CAMERON COUNTY --- 3.4 W SAN BENITO [26.13, -97.69], 0.8 NNE SAN BENITO MUNI ARPT [26.14, -97.61]

04/24/15 22:25 CST	5K	Thunderstorm Wind (EG 52 kt)
04/24/15 22:30 CST	0	Source: Law Enforcement

San Benito Police Department reported trees blown down onto South Sam Houston, downed utility wires at the intersection of South Dick Dowling and Rowsen and on Zillock Road, and a trampoline blown into a house that caused winds to break on San Jacinto Drive.

HIDALGO COUNTY --- EDCOUCH [26.30, -97.97]

04/24/15 22:25 CST	0	Thunderstorm Wind (EG 60 kt)
04/24/15 22:30 CST	0	Source: Law Enforcement

Several powerlines were reported down in the city of Edcouch.

HIDALGO COUNTY --- MERCEDES [26.15, -97.92]

04/24/15 22:25 CST	0	Thunderstorm Wind (EG 52 kt)
04/24/15 22:30 CST	0	Source: Law Enforcement

Mercedes Police Department reported 10 to 12 power lines down and 15 to 20 trees down across the city of Mercedes.

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CAMERON COUNTY --- LOS INDIOS [26.05, -97.75]				
	04/24/15 22:30 CST		0	Hail (1.00 in)
	04/24/15 22:35 CST		0	Source: Trained Spotter

Trained spotter reported quarter size hail in Los Indios.

CAMERON COUNTY --- HARLINGEN AIRPARK AR [26.23, -97.65]				
	04/24/15 22:35 CST		0	Thunderstorm Wind (MG 50 kt)
	04/24/15 22:35 CST		0	Source: ASOS

Harlingen ASOS reported a 58 mph wind gust.

A small cluster of thunderstorms developed over eastern Nuevo León State, Mexico, during the mid-evening of April 24th and sped north northeast across the Rio Grande River and over the Rio Grande Valley. The initial cell evolved into a straight line wind event as it crossed the river slamming the Lower Rio Grande Valley National Wildlife Refuge in Santa Ana. In only fifteen minutes, structural, tree, and powerline/power pole damage piled up from Alamo to Mercedes, extending north to pockets in Edinburg, Elsa, and Edcouch. The heaviest damage was noted in Donna and Weslaco, where a National Weather Service survey, joined by Emergency Management from Weslaco/Donna/Mercedes, Elsa/Edcouch, and Hidalgo County, determined peak winds ranged from 65 to 75 mph, with pockets of 80 mph speeds based on the type of damage, exposure, and construction. A second core of strong winds ripped through southwest Cameron County, with unknown tree damage in the Santa Maria/Los Indios area that continued northeast into the Harlingen/Primera area before exiting near Rio Hondo. Damage estimates are expected to surpass \$500 thousand.