

Storm Data and Unusual Weather Phenomena - August 2014

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

LAGUNA MADRE FROM PORT OF BROWNSVILLE TO ARROYO COLORADO COUNTY --- 7.7 S ARROYO CITY [26.12, -97.40]				
	08/18/14 13:13 CST		0	Marine Thunderstorm Wind (MG 42 kt)
	08/18/14 13:13 CST		0	Source: ASOS

ASOS at KPIL recorded a wind gust of 42 kts.

LAGUNA MADRE FROM PORT OF BROWNSVILLE TO ARROYO COLORADO COUNTY --- 1.1 WSW PORT ISABEL [26.06, -97.22]				
	08/18/14 13:24 CST		0	Marine Thunderstorm Wind (MG 34 kt)
	08/18/14 13:24 CST		0	Source: C-MAN Station

Port Isabel TCOON site reported a wind gust of 34 knots.

LAGUNA MADRE FROM PORT OF BROWNSVILLE TO ARROYO COLORADO COUNTY --- 2.1 E PORT ISABEL [26.07, -97.17]				
	08/18/14 13:24 CST		0	Marine Thunderstorm Wind (MG 34 kt)
	08/18/14 13:24 CST		0	Source: C-MAN Station

South Padre Island Coast Guard Station TCOON site reported a wind gust of 34 knots.

An active area of showers and thunderstorms moved north across the coastal waters of Mexico and over the lower Texas Coastal Waters. These showers and thunderstorms developed in conjunction with a wave of moisture that originated with a disturbance just off the Mexico coast about 200 NM south of Brownsville. Outflows from a convective line produced some very high wind gusts as it pushed across the region.

TEXAS, South

(TX-Z252) STARR, (TX-Z253) HIDALGO				
	08/01/14 00:00 CST		0	Drought
	08/04/14 23:59 CST		0	

While there were a few spotty showers and thunderstorms associated with the seabreeze, little rain fell during the last week of July and drought conditions held steady across the Rio Grande Valley and Deep South Texas. Severe (D2) drought conditions remained firmly entrenched over much of Starr County and western Hidalgo County, while the remainder of the region was covered by a hodgepodge of moderate (D1) and abnormally dry (D0) drought conditions.

ZAPATA COUNTY --- 15.5 N SAN YGNACIO [27.27, -99.42]				
	08/01/14 19:30 CST		0	Heavy Rain
	08/01/14 21:15 CST		0	Source: Law Enforcement

Heavy rainfall of 2 to 3 inches led to excessive runoff across US 83. Zapata County Sheriff's Deputy reported 3 to 4 inches of water over US 83 along the Zapata Webb County line.

ZAPATA COUNTY --- 2.2 NE SAN YGNACIO [27.08, -99.43]				
	08/01/14 19:30 CST		0	Heavy Rain
	08/01/14 21:15 CST		0	Source: Law Enforcement

Heavy rainfall of 2 to 3 inches led to excessive runoff across US 83. Zapata County Sheriff's Deputy reported 3 of water flowing across US 83 near La Perla farms.

Convection fired ahead of a weak early season cold front as it pushed slowly across central Texas. As this convection entered into the brush country and ranchlands during the evening hours of August 1, it encountered an environment rich in moisture and CAPE. Some of the storms became strong and produced frequent cloud to ground lightning, wind gusts of 30 to 40 mph and heavy rainfall. The slow moving to nearly stationary thunderstorms produced estimated rainfall rates of 2 to 3 inches per hour. The runoff from this excessive rainfall led to 3 to 4 inches of water moving over some of the low-lying areas on roadways.

(TX-Z249) JIM HOGG, (TX-Z250) BROOKS, (TX-Z251) KENEDY, (TX-Z252) STARR, (TX-Z253) HIDALGO				
	08/05/14 00:00 CST		0	Drought
	08/31/14 23:59 CST		0	

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Some much welcome and beneficial rain fell across the northern ranchlands and the western brush country the first few days of August, with some areas receiving over 3 inches. This rainfall while helpful, only maintained drought conditions in the areas where it fell. By the end of the first week of August, Severe (D2) drought conditions began to spread north and east across Hidalgo County and into Kenedy, Brooks, and Jim Hogg counties.

(TX-Z248) ZAPATA, (TX-Z249) JIM HOGG, (TX-Z251) KENEDY, (TX-Z252) STARR

08/12/14 00:00 CST	0	Drought
08/31/14 23:59 CST	0	

Rainfall earlier in the month allowed for most drought conditions in most areas to hold steady, but for those areas where rainfall was not as plentiful, drought conditions began to worsen. Severe (D2) drought conditions continued to spread across the Rio Grande Valley and Deep South Texas, capturing coastal Kenedy County and portions of Zapata County and spreading further west across Starr County.

ZAPATA COUNTY --- 0.8 WSW LOPENO [26.71, -99.11]

08/12/14 19:50 CST	0	Heavy Rain
08/12/14 21:15 CST	0	Source: Law Enforcement

Approximately 3.25 inches of rain fell near Lopeno in southern Zapata County. Zapata County Sheriff's Deputy reported 3 inches of water crossing US 83 near Lopeno. Nearby arroyos were also flowing but below bankfull and were still flowing at 7 am on August 13th.

Thunderstorms developed ahead of a weak cold front nearly stationary across the Hill Country. Outflow from this convection combined with the seabreeze moving inland to enhance shower and thunderstorm development across the ranchlands and the brush country. These storms moved slowly west southwest and produced rainfall rates of 3 to 4 inches per hour with radar estimates of 5 inches of rain falling along and north of Highway 83 in south central Zapata County in the space of a few hours.

HIDALGO COUNTY --- 4.2 N MERCEDES [26.21, -97.92]

08/13/14 14:54 CST	40K	Thunderstorm Wind (EG 56 kt)
08/13/14 14:57 CST	0	Source: Broadcast Media

Two poorly constructed mobile homes were destroyed. One home had the roof removed and walls were collapsed.

HIDALGO COUNTY --- 40.1 SSE HUISACHES [26.21, -97.98], 41.1 SSE HUISACHES [26.20, -97.98]

08/13/14 15:00 CST	40K	Thunderstorm Wind (EG 56 kt)
08/13/14 15:03 CST	0	Source: Emergency Manager

Emergency manager reported two mobile homes with damage. One home had slid off the foundation and the second with part of roof torn off near the intersection of Mile 4 W and Mile 11 N road. Several tree limbs were knocked down onto power lines nearby along Mile 10 N road.

HIDALGO COUNTY --- 18.4 NNE SAN MANUEL [26.81, -97.99]

08/13/14 15:02 CST	1K	Thunderstorm Wind (EG 52 kt)
08/13/14 15:05 CST	0	Source: Social Media

A large tree was uprooted.

HIDALGO COUNTY --- 1.4 N ALAMO [26.20, -98.12], 0.9 NE SAN JUAN [26.19, -98.16]

08/13/14 15:15 CST	5K	Thunderstorm Wind (EG 52 kt)
08/13/14 15:20 CST	0	Source: Law Enforcement

Hidalgo County Sheriff's office reported several spots of trees and power lines down in and around Donna, Alamo, and San Juan.

HIDALGO COUNTY --- DONNA [26.17, -98.05]

08/13/14 15:15 CST	0	Hail (0.75 in)
08/13/14 15:20 CST	0	Source: Public

Dime to penny size hail was reported between Donna and Alamo.

HIDALGO COUNTY --- 3.2 SW SAN CARLOS [26.25, -98.12], 3.3 NE PHARR [26.24, -98.15]

08/13/14 15:18 CST	3K	Thunderstorm Wind (EG 52 kt)
08/13/14 15:21 CST	0	Source: Law Enforcement

A tree fell on a church near Lopezville and a mobile home had a roof overhang removed.

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HIDALGO COUNTY --- 0.5 W PHARR [26.20, -98.19]				
	08/13/14 15:20 CST		1K	Thunderstorm Wind (EG 52 kt)
	08/13/14 15:23 CST		0	Source: Social Media

A tree, 8 inches in diameter, was uprooted in Pharr near the intersection of W. Bell and Dahlia, just south of Expressway 83 (IH-2).

The combination of the sea breeze, a weak upper level disturbance, leftover energy from an old surface boundary, and ample dry air mixed within an unstable atmosphere helped spark a small but potent thunderstorm in east-central Hidalgo County shortly before 4 pm. This storm quickly produced damage just north of Mercedes and Weslaco before moving west along an outflow, resetting and dropping another microburst between Alamo and the east side of Edinburg between 4:20 and 4:30 pm before weakening. Damage included numerous downed tree limbs, some downed lines (and subsequently power outages), and structural damage to mobile homes. Peak measured airport gusts included 50 mph at Weslaco/Mid Valley and 45 mph at McAllen Miller.

(TX-Z251) KENEDY, (TX-Z252) STARR, (TX-Z257) COASTAL CAMERON				
	08/19/14 00:00 CST		0	Drought
	08/31/14 23:59 CST		0	

Little rain fell during the middle of August and drought conditions responded accordingly. Extreme (D3) drought conditions returned to the coastal portions of Kenedy County, while Severe (D2) drought conditions returned to coastal Cameron County.

(TX-Z248) ZAPATA, (TX-Z251) KENEDY, (TX-Z253) HIDALGO				
	08/26/14 00:00 CST		0	Drought
	08/31/14 23:59 CST		0	

Areas of moderate to heavy rainfall fell across the Rio Grande Valley and Deep South Texas during the last few days of the month, but the effects would not be felt during the month of August. Little rainfall during the middle of the month allowed for drought conditions to worsen across portions of the area, with severe (D2) drought conditions returning once again to Zapata County and increasing in coverage across Kenedy County.

KENEDY COUNTY --- 6.2 ENE NORIAS [26.83, -97.71]				
	08/29/14 01:00 CST		0	Heavy Rain
	08/29/14 05:00 CST		0	Source: COOP Observer

CO-OP observer in Armstrong reported 5.12 inches of rainfall.

HIDALGO COUNTY --- (MFE)MILLER INTL ARP [26.17, -98.23]				
	08/29/14 15:30 CST		0	Heavy Rain
	08/29/14 16:35 CST		0	Source: ASOS

ASOS at McAllen Miller International Airport (KMFE) recorded 1.48 inches of rain in a little over an hour.

HIDALGO COUNTY --- MISSION [26.22, -98.32]				
	08/29/14 15:30 CST		0	Heavy Rain
	08/29/14 16:00 CST		0	Source: Trained Spotter

A trained spotter in Mission reported 1.5 inches of rain fell in 30 minutes.

A weak surface low drifted slowly westward across the Rio Grande Valley putting the eastern half of the area on the more favorable side of the low, which provided a better environment for slow moving heavy rain production and convection due to better surface convergence. This convection was also assisted by broad weakness in the upper level ridge axis. Deep tropical moisture was draped across the region, and provided the background for efficient rainfall. Showers and thunderstorms during the morning hours dumped at least 5 inches of rain on parts of the Kenedy County King Ranch.

After a brief lull during the late morning hours, showers and storms picked up again in the afternoon due to daytime heating and interaction with old boundaries. Slow moving showers and thunderstorms quickly dropped pockets of 2 to 3 inches in northern and eastern Hidalgo County, which caused some ponding/high standing water and nuisance flooding in poor drainage areas.