

Storm Data and Unusual Weather Phenomena - September 2013

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

GULF OF MEXICO

COASTAL WATERS FROM PT MANSFIELD TO RIO GRANDE RIVER TX OUT 20NM COUNTY --- 5.0 SE SOUTH PADRE ISLAND [26.03, -97.07]

	09/04/13 08:18 CST	0	Waterspout
	09/04/13 08:20 CST	0	Source: Public

Waterspout reported 5 miles SE of South Padre Island (distance estimated). The waterspout was visible on the South Padre Island Beach Camera. The waterspout remained offshore for its duration and caused no damage.

A moist and unstable atmosphere produced an area of showers over the lower Texas coastal waters. The combination of moisture combined with light winds near the surface produced a waterspout over the nearshore Gulf of Mexico waters east of South Padre Island on the morning of September 4th.

COASTAL WATERS FROM PT MANSFIELD TO RIO GRANDE RIVER TX OUT 20NM COUNTY --- 3.9 NE PORT ISABEL [26.11, -97.16]

	09/14/13 15:15 CST	0	Marine Thunderstorm Wind (MG 36 kt)
	09/14/13 15:16 CST	0	Source: AWOS

A thunderstorm moved west across the Gulf Waters and over South Padre Island. A marine thunderstorm gust of 36 knots was reported by the KSPL AWOS.

LAGUNA MADRE FROM 5NM N OF PT MANSFIELD TO BAFFIN BAY TX COUNTY --- 31.9 S S BAFFIN BAY [26.74, -97.43]

	09/15/13 11:36 CST	0	Marine Thunderstorm Wind (MG 36 kt)
	09/15/13 11:36 CST	0	Source: Buoy

A thunderstorm moved west across the Gulf Waters and over South Padre Island. A marine thunderstorm gust of 36 knots was reported by the Rincon del San Jose TCOON site.

LAGUNA MADRE FROM PORT OF BROWNSVILLE TO ARROYO COLORADO COUNTY --- 79.2 S S BAFFIN BAY [26.07, -97.17]

	09/16/13 06:30 CST	0	Marine Thunderstorm Wind (MG 39 kt)
	09/16/13 06:31 CST	0	Source: Coast Guard

A thunderstorm moved west across the Gulf Waters and over South Padre Island. A marine thunderstorm gust of 39 knots was reported by the Coast Guard Station at South Padre Island.

LAGUNA MADRE FROM PORT OF BROWNSVILLE TO ARROYO COLORADO COUNTY --- 79.2 S S BAFFIN BAY [26.07, -97.17]

	09/16/13 17:18 CST	0	Marine Thunderstorm Wind (MG 35 kt)
	09/16/13 17:19 CST	0	Source: Coast Guard

A thunderstorm moved west across the Gulf Waters and over South Padre Island. A marine thunderstorm gust of 35 knots was reported by the Coast Guard Station at South Padre Island.

With abundant tropical moisture in place, deep flow from the east, and Ingrid in the western Gulf of Mexico, scattered to numerous showers and thunderstorms developed and moved across the Lower Texas Coastal Waters. Some of this activity produced gale force gusts.

TEXAS, South

(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, (TX-Z256) COASTAL WILLACY, (TX-Z257) COASTAL CAMERON

	09/01/13 00:00 CST	0	Drought
	09/30/13 23:59 CST	0	

By the end of the first week of September, the benefits from rains that fell during the latter part of August and the first week of September began to be felt. A continued surge of deep tropical moisture, allowed for shower and thunderstorm activity to develop across portions of Deep South Texas and the Rio Grande Valley. The eastern sections of the region received between one and three inches of rain fall during early September, with the central and western counties averaging between one and two inches. A few isolated areas received heavier rains, especially over Cameron County. The shower and thunderstorm activity allowed for some improvements in areas where the heaviest rains occurred. Exceptional (D4) drought conditions covered most of Hidalgo County and extended into Starr, Jim Hogg, Brooks, and Willacy counties. The rest of the region was under Severe (D2) to Extreme (D3) drought conditions, with the exception of Zapata County, which was under Moderate (D1) to severe (D2) conditions.

Storm Data and Unusual Weather Phenomena - September 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
(TX-Z249) JIM HOGG, (TX-Z252) STARR				
	09/01/13 00:00 CST		0	Drought
	09/02/13 23:59 CST		0	
<p>Late August rains across the region, did little to alleviate drought conditions across Starr and Jim Hogg counties. By the beginning of September, Exceptional (D4) drought conditions continued to surge across the counties, resulting in Exceptional (D4) and Extreme (D3) drought conditions prevailing across the two counties.</p>				
ZAPATA COUNTY --- 1.5 NNE ZAPATA ARPT [26.90, -99.27]				
	09/02/13 19:28 CST		0	Hail (1.00 in)
	09/02/13 19:33 CST		0	Source: Public
<p>Public reported quarter size hail at the intersection of Lincoln and 5th in downtown Zapata. Also reported winds of 65 mph (estimated).</p> <p>A weak closed low on the periphery of high pressure along the coast was migrating southwestward into Mexico. This upper level system combined with increasing RH values, produced isolated to scattered showers and thunderstorms across the Rio Grande Valley and Deep South Texas on the afternoon and evening of September 2nd. Some of this activity moved northwest across Zapata County at 5 to 10 mph and produced periods of heavy rainfall with rates of two inches per hour and gusty winds. One storm became severe and produced quarter size hail and estimated 65 mph winds in downtown Zapata.</p>				
(TX-Z249) JIM HOGG, (TX-Z250) BROOKS, (TX-Z251) KENEDY, (TX-Z252) STARR, (TX-Z255) CAMERON				
	09/10/13 00:00 CST		0	Drought
	09/23/13 23:59 CST		0	
<p>A continued influx of deep tropical moisture combined with the effects of Tropical Storm Ingrid to produce beneficial and very welcomed rains across Deep South Texas and the Rio Grande Valley. By mid-month, rainfall totals indicated widespread four to eight inches over most of the region, although a little less rain was recorded over the northern counties of Jim Hogg and Brooks. The heaviest rains occurred over portions of south and central Cameron County. Rainfall amounts of eight to thirteen inches were common. Drought conditions improved a category where the heaviest rains fell.</p>				
(TX-Z251) KENEDY, (TX-Z253) HIDALGO, (TX-Z254) WILLACY, (TX-Z255) CAMERON, (TX-Z256) COASTAL WILLACY, (TX-Z257) COASTAL CAMERON				
	09/17/13 00:00 CST		0	Drought
	09/30/13 23:59 CST		0	
<p>As the latter half of September rolled around, rainfall across the Rio Grande Valley and Deep South Texas began to taper off. Spotty showers and thunderstorms dropped a few tenths more rain across the lower and mid Valley, while the upper Valley and northern ranchlands saw some heavier activity towards the 20th and the 21st. Nevertheless, this rainfall combined with the beneficial rainfall from earlier in the month, allowed for drought conditions to continue to improve, with many Severe (D2) drought conditions prevailing across large portions of Jim Hogg, Starr, Brooks, Hidalgo, Kenedy, and Willacy counties. Exceptional (D4) drought conditions became scarcer and were confined to areas in Brooks, Starr, and Hidalgo counties.</p>				
STARR COUNTY --- 0.6 SSE ROSITA [26.39, -98.92], 1.1 SE ROSITA [26.39, -98.91], 1.1 SE ROSITA [26.39, -98.91], 0.6 SSE ROSITA [26.39, -98.92]				
	09/20/13 21:30 CST		5K	Flash Flood (due to Heavy Rain)
	09/20/13 23:59 CST		0	Source: Law Enforcement
<p>Local law enforcement reported water approaching and entering homes in Rio Grande City.</p>				
STARR COUNTY --- 1.9 ESE VILLAREALES [26.37, -98.85], 1.5 WSW RIO GRANDE CITY [26.38, -98.84], 1.5 WSW RIO GRANDE CITY [26.38, -98.84], 1.8 WSW RIO GRANDE CITY [26.37, -98.85], 1.9 ESE VILLAREALES [26.37, -98.85]				
	09/20/13 21:30 CST		5K	Flash Flood (due to Heavy Rain)
	09/20/13 23:59 CST		0	Source: Law Enforcement
<p>Local law enforcement reported water approaching and entering homes in Rio Grande City.</p> <p>A band of torrential rain with embedded thunderstorms extended along and ahead of a cold front from Falfurrias to Rio Grande City. This band of rain moved slowly towards the east southeast. Rich deep tropical air continued to work its way around what was left of the tropical low that was about 60 miles SE of Brownsville. Mid to upper level trough with a 40 to 60 kt upper jet maintained large scale ascent of the tropical allowing thunderstorms to continue to develop. Torrential rainfall rates of 2 to 3 inches per hour. Law enforcement officials reported water flowing over Highway 83 from arroyos between Rio Grande City and Roma. Police estimated that the water one and one half foot deep. Local law enforcement officials also reported water approaching or entering homes in Rio Grande City and numerous roads and highways closed. Radar estimated that 3 inches of rain fell between 1015 pm and 1104 pm.</p>				
(TX-Z249) JIM HOGG, (TX-Z250) BROOKS, (TX-Z252) STARR, (TX-Z253) HIDALGO, (TX-Z254) WILLACY				

Storm Data and Unusual Weather Phenomena - September 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	09/24/13 00:00 CST		0	Drought
	09/30/13 23:59 CST		0	

The final week of September brought one last blast of rain to Starr and Zapata counties. Between one and three inches of rain fell across western Zapata County and into southwest Starr County as an upper level disturbance and fading cold front tapped into tropical moisture and produced thunderstorms. This rain combined with the benefits of rain that fell earlier in the month, allowed most of the area to continue enjoying improved drought conditions.