Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
GULF OF MEXICO				
AGUNA MADRE FROM PORT OF	BROWNSVILLE TO ARROYO COLORAD	00 COUNTY 2.0	E PORT ISABEL 12	26.0797.171
	09/03/14 01:06 CST 09/03/14 01:18 CST		0	Marine Thunderstorm Wind (MG 41 kt) Source: Coast Guard
Several wind gusts in excess of 34 k	nots were measured at the South Padre	Island Coast Guard	Station.	
AGUNA MADRE FROM PORT OF	BROWNSVILLE TO ARROYO COLORAD	00 COUNTY 8.6	ENE ARROYO CIT	Y [26.26, -97.29]
	09/03/14 01:12 CST		0	Marine Thunderstorm Wind (MG 40 kt)
	09/03/14 01:13 CST		0	Source: C-MAN Station
40 knot gust was measured at the	Realitos Peninsula TCOON site.			
	ard the northeast Mexican coast, some g some strong gusty showers and thun			-
		-		
LAGUNA MADRE FROM PORT OF I	BROWNSVILLE TO ARROYO COLORAE 09/13/14 03:48 CST	DO COUNTY 1.1	0 0	EL [26.06, -97.22] Marine Thunderstorm Wind (MG 39 kt)
	09/13/14 03:49 CST		0	Source: C-MAN Station
A wind gust of 39 knots was reported	by the Port Isabel TCOON site.			
	BROWNSVILLE TO ARROYO COLORAD	O COUNTY 8.6	ENE ARROYO CIT	Y [26.2697.29]
	09/13/14 04:12 CST		0	Marine Thunderstorm Wind (MG 38 kt)
	09/13/14 04:18 CST		0	Source: C-MAN Station
-	BROWNSVILLE TO ARROYO COLORAD			
	09/13/14 13:51 CST 09/13/14 13:52 CST		0 0	Marine Thunderstorm Wind (MG 34 kt) Source: C-MAN Station
A 34 knot wind gust was measured a			0	
	BROWNSVILLE TO ARROYO COLORAD			26.07 07.171
	09/13/14 13:54 CST	00 COUNTY 2.0		Marine Thunderstorm Wind (MG 39 kt)
	09/13/14 14:06 CST		0	Source: Coast Guard
Several wind gusts in excess of 34 k	nots were measured at the South Padre	Island Coast Guard	Station.	
AGUNA MADRE FROM PORT OF	BROWNSVILLE TO ARROYO COLORAD	00 COUNTY 7.0	SE ARROYO CITY	[26.16, -97.34]
	09/13/14 13:54 CST		0	Marine Thunderstorm Wind (MG 34 kt)
	09/13/14 13:55 CST		0	Source: ASOS
A 34 knot gust was measured by the	KPIL ASOS.			
• •	bined with a dissipating cold front acros nderstorms across the lower Texas coa		•	•
WATERS FROM BAFFIN BAY TO PT	MANSFIELD TX EXT FROM 20 TO 60N	M COUNTY 45.1	ESE S BAFFIN BA	AY [26.97, -96.69]
	09/27/14 19:30 CST		0	Marine Thunderstorm Wind (MG 37 kt)
	09/27/14 19:31 CST		0	Source: Buoy
NOAA Buoy 42020 reported a wind g	gust of 37 knots.			

Storm Data and Unusual Weather Phenomena - September 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	09/28/14 19:30 CST		0	Marine Thunderstorm Wind (MG 47 kt)
	09/28/14 19:31 CST		0	Source: Buoy

NOAA Buoy 42020 reported a 47 knot wind gust.

Weak 500 mb troughiness remaining over the region combined with a slight bump in moisture to produce isolated showers and thunderstorms over the lower Texas coastal waters, where instability was the greatest. Some of the thunderstorms became strong with wind gusts over 34 knots.

(TX-Z248) ZAPATA, (TX-Z249) JIM HOGG, (TX-Z	250) BROOKS, (TX-Z251) KENEDY, (TX-Z252) STARR, (TX-Z	253) HIDALGO, (TX-Z257) COASTAL
CAMERON			
	09/01/14 00:00 CST	0	Drought
	09/15/14 23:59 CST	0	
Drought conditions began to improve across the benefits from rainfall during the end of August /alley and especially the King Ranch. Extreme D2) drought conditions shrank.	began to turn areas of brown to gre	en across portions of th	e Lower to Mid Rio Grande
TX-Z249) JIM HOGG, (TX-Z252) STARR			
,,	09/09/14 00:00 CST	0	Drought
	09/15/14 23:59 CST	0	
idalgo counties. This rainfall would improve d AMERON COUNTY 0.9 SSW PALMETAL [26	-		ignt conditions eliminated.
	00/12/14 12:20 CST	•	Lloover Doin
parts of Harlingen during the mid afternoon of Se	ptember 13th, 2014. Generally less the	0 0 looding from the west sid	ed typically poor drainage roads in the area
A slow moving band of torrential rain/thunderstom parts of Harlingen during the mid afternoon of Se during and just after the peak of the heavy rains. HIDALGO COUNTY (MFE)MILLER INTL ARP	09/13/14 16:00 CST ms created areas of nuisance urban fi ptember 13th, 2014. Generally less ti In total, the band produced 2 to 3 inc [26.17, -98.23] 09/13/14 13:00 CST	0 0 looding from the west sid han 2 feet of water flood hes of rain in a roughly 3 0	Source: CoCoRaHS le of Brownsville through San Benito and ed typically poor drainage roads in the area b hour period. Heavy Rain
parts of Harlingen during the mid afternoon of Se during and just after the peak of the heavy rains. HIDALGO COUNTY (MFE)MILLER INTL ARP	09/13/14 16:00 CST ms created areas of nuisance urban fi ptember 13th, 2014. Generally less ti In total, the band produced 2 to 3 inc [26.17, -98.23] 09/13/14 13:00 CST 09/13/14 15:00 CST	0 0 looding from the west sid han 2 feet of water flood hes of rain in a roughly 3 0 0	Source: CoCoRaHS le of Brownsville through San Benito and ed typically poor drainage roads in the area 8 hour period.
barts of Harlingen during the mid afternoon of Se during and just after the peak of the heavy rains. HIDALGO COUNTY (MFE)MILLER INTL ARP The ASOS at KMFE reported 2.23 inches of rain	09/13/14 16:00 CST ms created areas of nuisance urban fi ptember 13th, 2014. Generally less ti In total, the band produced 2 to 3 inc [26.17, -98.23] 09/13/14 13:00 CST 09/13/14 15:00 CST fell in 2 hours, with 1.62 inches falling	0 0 looding from the west sid han 2 feet of water flood hes of rain in a roughly 3 0 0	Source: CoCoRaHS le of Brownsville through San Benito and ed typically poor drainage roads in the area b hour period. Heavy Rain
barts of Harlingen during the mid afternoon of Se during and just after the peak of the heavy rains. HIDALGO COUNTY (MFE)MILLER INTL ARP The ASOS at KMFE reported 2.23 inches of rain	09/13/14 16:00 CST ms created areas of nuisance urban fi ptember 13th, 2014. Generally less ti In total, the band produced 2 to 3 inc [26.17, -98.23] 09/13/14 13:00 CST 09/13/14 15:00 CST fell in 2 hours, with 1.62 inches falling	0 0 looding from the west sid han 2 feet of water flood hes of rain in a roughly 3 0 0	Source: CoCoRaHS le of Brownsville through San Benito and ed typically poor drainage roads in the area b hour period. Heavy Rain
barts of Harlingen during the mid afternoon of Se during and just after the peak of the heavy rains. HIDALGO COUNTY (MFE)MILLER INTL ARP The ASOS at KMFE reported 2.23 inches of rain	09/13/14 16:00 CST ms created areas of nuisance urban fi ptember 13th, 2014. Generally less ti In total, the band produced 2 to 3 inc [26.17, -98.23] 09/13/14 13:00 CST 09/13/14 15:00 CST fell in 2 hours, with 1.62 inches falling T [26.17, -97.97]	0 0 looding from the west sid han 2 feet of water flood hes of rain in a roughly 3 0 0 in 1 hour.	Source: CoCoRaHS le of Brownsville through San Benito and ed typically poor drainage roads in the area b hour period. Heavy Rain Source: ASOS
parts of Harlingen during the mid afternoon of Se during and just after the peak of the heavy rains.	09/13/14 16:00 CST ms created areas of nuisance urban fi ptember 13th, 2014. Generally less ti In total, the band produced 2 to 3 inc [26.17, -98.23] 09/13/14 13:00 CST 09/13/14 15:00 CST fell in 2 hours, with 1.62 inches falling T [26.17, -97.97] 09/13/14 13:00 CST 09/13/14 15:00 CST	0 0 looding from the west sid han 2 feet of water flood hes of rain in a roughly 3 0 0 in 1 hour. 0 0 0	Source: CoCoRaHS le of Brownsville through San Benito and ed typically poor drainage roads in the area b hour period. Heavy Rain Source: ASOS Heavy Rain
parts of Harlingen during the mid afternoon of Se during and just after the peak of the heavy rains. HIDALGO COUNTY (MFE)MILLER INTL ARP The ASOS at KMFE reported 2.23 inches of rain HIDALGO COUNTY WESLACO MID VLY ARP	09/13/14 16:00 CST ms created areas of nuisance urban fi ptember 13th, 2014. Generally less ti In total, the band produced 2 to 3 inc [26.17, -98.23] 09/13/14 13:00 CST 09/13/14 15:00 CST fell in 2 hours, with 1.62 inches falling T [26.17, -97.97] 09/13/14 13:00 CST 09/13/14 15:00 CST iell in 2 hours, with 0.97 inches falling	0 0 looding from the west sid han 2 feet of water flood hes of rain in a roughly 3 0 0 in 1 hour. 0 0 in 1 hour.	Source: CoCoRaHS le of Brownsville through San Benito and ed typically poor drainage roads in the area hour period. Heavy Rain Source: ASOS Heavy Rain Source: AWOS
parts of Harlingen during the mid afternoon of Se during and just after the peak of the heavy rains. HIDALGO COUNTY (MFE)MILLER INTL ARP The ASOS at KMFE reported 2.23 inches of rain HIDALGO COUNTY WESLACO MID VLY ARP The AWOS at KT65 reported 1.74 inches of rain 1 HIDALGO COUNTY 1.4 NE (MFE)MILLER INT	09/13/14 16:00 CST ms created areas of nuisance urban fi ptember 13th, 2014. Generally less ti In total, the band produced 2 to 3 inc [26.17, -98.23] 09/13/14 13:00 CST 09/13/14 15:00 CST fell in 2 hours, with 1.62 inches falling T [26.17, -97.97] 09/13/14 13:00 CST 09/13/14 15:00 CST fell in 2 hours, with 0.97 inches falling [LARP [26.18, -98.22], 1.6 ESE MC Al -98.11], 1.2 NW PHARR [26.21, -98.12]	0 0 looding from the west sid han 2 feet of water flood hes of rain in a roughly 3 0 0 in 1 hour. 0 1 0 1 1 hour. 1 LLEN [26.19, -98.21], 1.3 9], 1.1 E MC ALLEN [26.	Source: CoCoRaHS le of Brownsville through San Benito and ed typically poor drainage roads in the area hour period. Heavy Rain Source: ASOS Heavy Rain Source: AWOS W PHARR [26.20, -98.20], 0.6 ENE 20, -98.21]

HIDALGO COUNTY --- 2.2 W WESLACO [26.16, -98.01], 1.5 SE WESLACO MID VLY ARPT [26.15, -97.96], 0.8 ENE WESLACO MID VLY ARPT [26.17, -97.96], 2.2 E DONNA [26.17, -98.02]

Storm Data and Unusual Weather Phenomena - September 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	09/13/14 13:30 CST		0	Flash Flood (due to Heavy Rain)
	09/13/14 16:00 CST		0	Source: Emergency Manager

Flash flooding was reported by various sources of flash flooding along the frontage roads in Weslaco along Highway 83/I-2 and road closures in Weslaco. Several feet of water was noted, as well as water to the top of tire wells.

HIDALGO COUNTY 0.8 SE MOORE AFB [26.44, -98.12]				
09/13/14 14:00 CST	0	Heavy Rain		
09/13/14 16:00 CST	0	Source: AWOS		

The AWOS at KEBG reported 1.56 inches of rain fell in 2 hours, with 1.1 inches falling in 1 hour.

A pair of weak tropical waves combined with a dissipating cold front across the Rio Grande Valley and dumped widespread heavy rainfall, with rainfall totals of 3 to 5 inches region wide. Urban, nuisance flooding occurred in every city and town across the Valley with a single band of rain between 130 and 430 pm on the 13th. Locally heavy downpours produced life and property flash flooding in Mission, McAllen, San Juan, Pharr, and Alamo.

CAMERON COUNTY 0.2 ESE EVAN [25.98, -97.50], 0.9 SSE BROWNSVILLE [25.91, -97.50]					
09/15/14 17:00 CST	0	Heavy Rain			
09/15/14 21:00 CST	0	Source: Emergency Manager			

The heavy rain led to widespread urban flooding. The flooding included several roads with at least two feet of water across in poor drainage locations and where drainage ditches and canals were filled above capacity. Some resacas filled to bank full; running trails and playgrounds located some of them were covered in water during the peak of the flooding. The high waters forced road closures into the night, and several vehicles became stranded.

A weak easterly wave approached the Lower Texas coast bringing bands of torrential rainfall during the early morning commute. Additional bands with heavier rainfall would drop an estimated 2 to 3 inches from late afternoon until sunset, on top of the ½ to ¾ inch that fell in the morning. The torrents immediately ran off and would produce widespread urban flooding from North Brownsville through downtown by sunset.

STARR COUNTY 0.7 N LOS SAENZ [26.41, -99.00]					
09/16/14 11:45 CST 0 Heavy Rain					
09/16/14 13:00 CST 0 Source: Trained Spotter					

The Arroyo Roma was reportedly in minor flood (bank full) after slow moving thunderstorms likely produced sufficient runoff into the waterway near Roma during the late morning and early afternoon of September 16th. Rainfall amounts in the area were unknown.

The remains of a weak upper level disturbance and surface trough triggered more slow moving thunderstorms on September 16, 2014, that exacerbated runoff across arroyos of the Upper Rio Grande Valley early that afternoon - runoff that likely began after locally heavy rainfall on the 13th.

HIDALGO COUNTY (MFE)MILLER INTL ARP [26.17, -98.23]				
09/19/14 17:53 CST	0	Heavy Rain		
09/19/14 18:13 CST	0	Source: ASOS		

In 20 minutes, 1.24 inches of rain fell at the KMFE ASOS. The rainfall resulted in minor street flooding at the nearby La Plaza Mall.

A weak boundary over the northern Gulf of Mexico combined with the remnants of Odile over NW Texas. Daytime heating during the afternoon and the deep moisture (indicated by precipitable waters of 2 inches) allowed for scattered showers to develop over the lower and middle Valley. Periods of heavy rain fell across the region, with over an inch of rain falling in less than 30 minutes in McAllen.

	09/26/14 00:00 CST	0	Heavy Rain	
	09/26/14 23:59 CST	0	Source: COOP Observer	
COOP observer in Rio Grande C	ity reported 6.30 inches of rain.			
COOP observer in Rio Grande C				
		0	Heavy Rain	

Storm Data and Unusual Weather Phenomena - September 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	09/26/14 17:30 CST		0	Flash Flood (due to Heavy Rain)
	09/26/14 23:59 CST		0	Source: Law Enforcement

Rio Grande City Police Department reported major street flooding across the city. Starr County Sheriff's Office reported that the normally dry Arroyo Los Olmos exceeded bank full by 2 to 3 feet and that several feet of flowing water had flooded the Las Lomas neighborhood. Several cars were partially submerged and at least one house had extensive inundation.

Early afternoon heating, boundaries and storms moving ward the west and southwest from the South Texas Brush Country, and a wave of upper level energy rotating from southwest to northeast each combined to create a nearly stationary band of torrential rain producing thunderstorms over Rio Grande City and nearby locations. Nuisance flooding began during the late afternoon, and significant, life and property, flooding began in Rio Grande City before sunset. Flooding peaked after sunset and continued through at least 11 pm. Observations and radar estimated 6 to 8+ inches of rain fell during the long duration event.

HIDALGO COUNTY 0.3 SE SAN I	MANUEL [26.57, -98.12]			
	09/27/14 00:00 CST	0	Heavy Rain	
	09/27/14 23:59 CST	0	Source: COOP Observer	
OOP observer in Linn-San Manuel	reported 4.45 inches of rainfall.			
IDALGO COUNTY 0.8 NE EDINI	BURG [26.31, -98.16], 1.2 SSE EDINBURG [26.28,	, -98.17]		
	09/27/14 13:30 CST	0	Heavy Rain	
	09/27/14 15:00 CST	0	Source: Social Media	
lumerous social media posts report	ed street flooding in Edinburg.			
	ARR [26.21, -98.17], 0.2 NNW (MFE)MILLER INTL	ARP [26.1798.23]		
IIDALGO COUNTY 1.0 ENE PHA				
IIDALGO COUNTY 1.0 ENE PHA	09/27/14 13:30 CST	0	Heavy Rain	
HIDALGO COUNTY 1.0 ENE PHA	• • • • • •	• • •	Heavy Rain Source: Social Media	
lumerous social media posts report	09/27/14 13:30 CST 09/27/14 15:00 CST ed street flooding in McAllen, with water near the t	0	Source: Social Media	
Numerous social media posts report	09/27/14 13:30 CST 09/27/14 15:00 CST ed street flooding in McAllen, with water near the to R INTL ARP [26.17, -98.23]	0 0 op of tire wells in some lo	Source: Social Media	
	09/27/14 13:30 CST 09/27/14 15:00 CST ed street flooding in McAllen, with water near the to R INTL ARP [26.17, -98.23] 09/27/14 13:36 CST 09/27/14 15:26 CST	0 0 op of tire wells in some lo	Source: Social Media ocations. Heavy Rain	
Numerous social media posts report HIDALGO COUNTY (MFE)MILLEI ASOS at KMFE reported 2.36 inches	09/27/14 13:30 CST 09/27/14 15:00 CST ed street flooding in McAllen, with water near the to R INTL ARP [26.17, -98.23] 09/27/14 13:36 CST 09/27/14 15:26 CST s of rainfall in just under 2 hours.	0 0 op of tire wells in some lo 0 0	Source: Social Media ocations. Heavy Rain Source: ASOS	
Aumerous social media posts report HIDALGO COUNTY (MFE)MILLE ASOS at KMFE reported 2.36 inches HIDALGO COUNTY 1.3 WNW ED	09/27/14 13:30 CST 09/27/14 15:00 CST ed street flooding in McAllen, with water near the to R INTL ARP [26.17, -98.23] 09/27/14 13:36 CST 09/27/14 15:26 CST s of rainfall in just under 2 hours.	0 0 op of tire wells in some lo 0 0	Source: Social Media ocations. Heavy Rain Source: ASOS	
Numerous social media posts report HIDALGO COUNTY (MFE)MILLEI ASOS at KMFE reported 2.36 inches	09/27/14 13:30 CST 09/27/14 15:00 CST ed street flooding in McAllen, with water near the to R INTL ARP [26.17, -98.23] 09/27/14 13:36 CST 09/27/14 15:26 CST s of rainfall in just under 2 hours.	0 0 op of tire wells in some lo 0 0 RG YARD [26.34, -98.21]	Source: Social Media ocations. Heavy Rain Source: ASOS	
Numerous social media posts report HIDALGO COUNTY (MFE)MILLEI ASOS at KMFE reported 2.36 inches HIDALGO COUNTY 1.3 WNW ED I.4 NW EDINBURG YARD [26.34, -9)	09/27/14 13:30 CST 09/27/14 15:00 CST ed street flooding in McAllen, with water near the to R INTL ARP [26.17, -98.23] 09/27/14 13:36 CST 09/27/14 15:26 CST s of rainfall in just under 2 hours. INBURG YARD [26.34, -98.19], 2.8 WNW EDINBU 8.19] 09/27/14 14:00 CST	0 0 0 0 0 0 0 RG YARD [26.34, -98.21] 0 0	Source: Social Media ocations. Heavy Rain Source: ASOS , 2.8 WNW EDINBURG YARD [26.35, -98.21], Flash Flood (due to Heavy Rain) Source: Broadcast Media	

CAMERON COUNTY 5.1 SE MONTE GRANDE [26.22, -97.46], 5.4 ENE LOZANO [26.20, -97.4	7], 2.2 NE LAUREL	ES [26.12, -97.47], 2.3 SW BAYVIEW
[26.11, -97.43], 5.2 NW PORT ISABEL ARPT [26.21	, -97.42]		
	09/27/14 20:00 CST	0	Flash Flood (due to Heavy Rain)
	09/28/14 03:00 CST	0	Source: NWS Employee

An off duty NWS employee reported as much as 6 inches of flowing water remaining on the road in the immediate vicinity of La Tina, as well as several stalled cars. There was also evidence of flash flooding on FM 1847 and FM 106 near La Tina and the Laguna Atascosa National Wildlife Refuge. The road bed had been partially washed away on FM 106. Water remained in or up to the edge of some homes.

Showers and thunderstorms would continue to plague the region on the 27th. By noon, a slow moving band of blinding rains developed in rural northeast Starr and northwest Hidalgo counties, and would soon link up with other cells forming from Reynosa/Tamaulipas into the Mcallen, Edinburg, San Juan, and Pharr area early in the afternoon. Poor drainage areas were unable to keep up with the rainfall rates, and water up to 3 feet deep piled up in a few areas until a little while after the rain moved east. Farther north, in rural central and northern Hidalgo County, rains continued well after they had cleared out from the larger population centers. Nearly 4 and a half inches fell in San Manuel during the afternoon. Further east in Cameron County an evening round of rain dropped 4 to 6 additional inches and flooded areas from the La Tina Ranch to Holly Beach and the Laguna Atascosa National Wildlife Refuge.