

Storm Data and Unusual Weather Phenomena - April 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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TEXAS, West

(TX-Z061) ECTOR

	04/03/11 00:00 CST		0	Wildfire
	04/03/11 00:00 CST		0	

Low relative humidity values combined with breezy southwest surface winds above 20 mph to produce critical fire weather conditions across the Permian Basin of Texas.

(TX-Z258) GUADALUPE MOUNTAINS OF CULBERSON COUNTY

	04/03/11 06:00 MST		0	High Wind (MAX 63 kt)
	04/03/11 18:51 MST		0	

Strong southwest flow aloft developed over the area and resulted in strong winds through the Guadalupe Mountains.

(TX-Z258) GUADALUPE MOUNTAINS OF CULBERSON COUNTY

	04/04/11 02:00 MST		0	High Wind (MAX 52 kt)
	04/04/11 07:51 MST		0	

A strong surface low to the northeast of the area resulted in high westerly winds in the Guadalupe Mountains. A cold front moving through the area also resulted in high northeast winds through the Guadalupe Mountains.

(TX-Z050) ANDREWS

	04/06/11 00:00 CST		0	Wildfire
	04/06/11 00:00 CST		0	

An upper level storm system over the western US helped to contribute to a hot, dry, and windy day across the Permian Basin of Texas. Temperatures were around 20 degrees above normal and relative humidities dropped into the 3-8% range. Winds speeds were above 20 MPH and the fire danger rating was extreme. Due to these factors, a Red Flag Warning was issued for the area.

(TX-Z258) GUADALUPE MOUNTAINS OF CULBERSON COUNTY

	04/06/11 10:00 MST		0	High Wind (MAX 56 kt)
	04/07/11 15:51 MST		0	

Strong southwesterly mid level winds, preceding an upper trough translating eastward over the desert southwest, resulted in strong winds in the Guadalupe Mountains.

(TX-Z062) MIDLAND

	04/07/11 00:00 CST		0	Wildfire
	04/07/11 00:00 CST		0	

A Red Flag Warning was issued for the area. Relative humidity values were in the single digits due to above normal temperatures, and a wind advisory was in effect for the northwest Permian Basin. The fire danger rating was very high to extreme.

(TX-Z082) TERRELL

	04/08/11 00:00 CST		0	Wildfire
	04/08/11 00:00 CST	1	0	

A surface trough was present across southeast New Mexico and west Texas. A strong surface pressure gradient contributed to southwest winds at or above 20 MPH. The winds combined with minimum relative humidity values of 10 percent or less and above normal temperatures, which resulted in the issuance of a Red Flag Warning for all of west Texas.

(TX-Z062) MIDLAND, (TX-Z074) DAVIS / APACHE MOUNTAINS AREA

	04/09/11 00:00 CST		7.70M	Wildfire
	04/30/11 00:00 CST		0	

A surface trough extended into west Texas with a dryline located east of the area. High temperatures were near record levels, and minimum relative humidity values ranged from 5 to 10 percent. A tight surface pressure gradient contributed to winds of 20 - 35 MPH across the plains with sustained winds around 40 MPH in the mountains. A Red Flag Warning was in effect for west Texas.

(TX-Z258) GUADALUPE MOUNTAINS OF CULBERSON COUNTY

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	04/09/11 10:51 MST		0	High Wind (MAX 60 kt)
	04/09/11 21:51 MST		0	

Increased southwesterly flow aloft ahead of an approaching upper level trough and a tightening surface pressure gradient over the area resulted in strong winds in the Guadalupe Mountains.

(TX-Z258) GUADALUPE MOUNTAINS OF CULBERSON COUNTY

	04/10/11 07:51 MST		0	High Wind (MAX 55 kt)
	04/10/11 21:00 MST		0	

The approach of an upper level trough resulted in strong winds in the Guadalupe Mountains.

(TX-Z075) PECOS

	04/12/11 00:00 CST		0	Wildfire
	04/30/11 00:00 CST		0	

A surface trough across eastern New Mexico and surface high pressure across the Mississippi River Valley contributed to a tight surface pressure gradient. This gradient allowed for strong southerly winds of 20 to 25 MPH to develop during the afternoon hours. Relative humidity values ranged from the low teens east of the Pecos River, to the single digits west of there. A Red Flag Warning was issued for the area.

(TX-Z050) ANDREWS

	04/14/11 00:00 CST		0	Wildfire
	04/21/11 00:00 CST		0	

An approaching upper level trough brought strong west winds across the area of 25 to 35 MPH with gusts of 40 to 50 MPH. Dry air was in place with minimum relative humidity values in the single digits. Critical to extremely critical fire weather conditions were present and a Red Flag Warning was issued for the area.

(TX-Z258) GUADALUPE MOUNTAINS OF CULBERSON COUNTY

	04/14/11 03:51 MST		0	High Wind (MAX 63 kt)
	04/14/11 19:51 MST		0	

A deepening area of surface low pressure over eastern New Mexico and increasing mid level winds ahead of an approaching upper level trough resulted in high winds in the Guadalupe Mountains.

(TX-Z258) GUADALUPE MOUNTAINS OF CULBERSON COUNTY

	04/18/11 16:51 MST		0	High Wind (MAX 59 kt)
	04/19/11 10:00 MST		0	

The approach of an upper trough resulted in strong westerly winds mixing down into the Guadalupe Mountains.

PECOS COUNTY --- 1.4 WSW IRAAN [30.91, -101.90]

	04/20/11 19:42 CST		0	Hail (1.00 in)
	04/20/11 19:47 CST		0	Source: Public

PECOS COUNTY --- 10.8 SE BELDING [30.67, -102.89]

	04/21/11 14:35 CST		0	Hail (0.75 in)
	04/21/11 14:40 CST		0	Source: Public

PECOS COUNTY --- 23.5 SE FT STOCKTON [30.64, -102.59]

	04/21/11 15:20 CST		0	Hail (1.75 in)
	04/21/11 15:25 CST		0	Source: Fire Department/Rescue

TERRELL COUNTY --- 4.6 NW (P07)SANDERSON [30.20, -102.44], 4.5 E (P07)SANDERSON [30.16, -102.33]

	04/21/11 17:45 CST		0.10M	Tornado (EF2, L: 7.82 mi , W: 800 yd)
	04/21/11 17:50 CST		0	Source: COOP Observer

Tornado damage was reported near Sanderson at approximately 17:45 CST. Several cedar trees were destroyed as the tornado tracked east southeast. A home and barn were also destroyed by the tornado. Spotter reports indicate the tornado was 1/2 mile wide and travelled approximately 9 miles.

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TERRELL COUNTY --- DRYDEN [30.05, -102.12]				
	04/21/11 18:04 CST		0	Thunderstorm Wind (MG 50 kt)
	04/21/11 18:04 CST		0	Source: ASOS

Isolated thunderstorms developed along a weak cold front April 20, near the Lower Trans Pecos and Stockton Plateau. During the afternoon hours the next day, severe thunderstorms develop within significant low level moisture just ahead of a dryline over Terrell and Pecos Counties. Backed surface winds across Terrell County supported a low level shear near storm environment sufficient enough to produce brief tornadoes. One tornado was reported near Sanderson, TX.

(TX-Z258) GUADALUPE MOUNTAINS OF CULBERSON COUNTY				
	04/24/11 09:51 MST		0	High Wind (MAX 62 kt)
	04/25/11 18:51 MST		0	

Strong westerly flow aloft combined with a tight surface pressure gradient over the area to produce strong winds in the Guadalupe Mountains.

(TX-Z048) SCURRY				
	04/25/11 00:00 CST		0	Wildfire
	04/25/11 23:00 CST		0	

Hot temperatures along with single digit relative humidity values were present across the area. These conditions combined with west winds of 20 to 30 mph to produce critical fire weather. A Red Flag Warning was issued for the area.

(TX-Z053) MITCHELL, (TX-Z061) ECTOR, (TX-Z068) CRANE				
	04/26/11 00:00 CST		0.40M	Wildfire
	04/28/11 00:00 CST		0	

Near record high temperatures and relative humidity values of 5 percent or less were present across the Permian Basin and Trans Pecos area. Strong winds aloft mixed down to the surface resulting in wind speeds near 30 to 40 MPH with gusts to 50 MPH across the region. A Red Flag Warning and a Wind Advisory were in effect.

(TX-Z258) GUADALUPE MOUNTAINS OF CULBERSON COUNTY				
	04/26/11 01:51 MST		0	High Wind (MAX 71 kt)
	04/26/11 23:00 MST		0	

A strong upper trough moving over the region combined with a tight surface pressure gradient over the area to produce strong winds in the Guadalupe Mountains.

(TX-Z258) GUADALUPE MOUNTAINS OF CULBERSON COUNTY				
	04/29/11 10:51 MST		0	High Wind (MAX 61 kt)
	04/30/11 10:51 MST		0	

A potent upper level trough approaching the region resulted in strong mid level winds mixing down into the Guadalupe Mountains.