

## Storm Data and Unusual Weather Phenomena - March 2010

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

**(TX-Z023) SWISHER, (TX-Z024) BRISCOE**

	03/01/10 03:00 CST		0	Winter Weather
	03/01/10 10:00 CST		0	

Light snow impacted portions of the South Plains of west Texas and the southern Texas Panhandle during the morning hours of the 1st. The snowfall generally did not result in accumulations, however, northeasterly upslope winds flowing over the south rim of Palo Duro Canyon locally enhanced snowfall and resulted in 2 inch accumulations at both Silverton (Briscoe County) and Vigo Park (Swisher County).

**(TX-Z023) SWISHER**

	03/05/10 15:15 CST		0	Wildfire
	03/05/10 18:00 CST		0	

A wind-driven grassland wildfire ignited in extreme southeastern Swisher County shortly after 15:00 CST on the 5th. The fire burned 640 acres before it was extinguished. No significant damages or injuries were reported.

**LUBBOCK COUNTY --- 4.0 NNW SLATON [33.48, -101.68]**

	03/08/10 07:50 CST		2K	Thunderstorm Wind (EG 65 kt)
	03/08/10 07:50 CST		0	Source: NWS Storm Survey

Thunderstorm winds resulted in a narrow swath of damage at a homestead northwest of Slaton. Two storage buildings were blown over and destroyed. In addition, three large trees were uprooted and a fence was damaged. The damaging winds affected an area estimated to be 30 yards by 100 yards in width. Wind speeds were estimated to be between 70 mph and 75 mph.

**(TX-Z031) MOTLEY, (TX-Z032) COTTLE, (TX-Z034) HOCKLEY, (TX-Z035) LUBBOCK**

	03/08/10 15:00 CST		1K	High Wind (MAX 53 kt)
	03/08/10 20:52 CST	1	0	

A vigorous upper air storm system moved eastward over west Texas on the 8th. A band of thunderstorms developed in advance of the approaching storm during the morning hours, and these storms produced a narrow swath of damaging winds near Slaton (Lubbock County) shortly before 08:00 CST.

More widespread severe wind gusts were observed over the South Plains region of west Texas during the late afternoon and evening hours, however, as cold air aloft and steep lapse rates beneath the center of the upper air low aided the development of high-based convective virga showers in the wake of a strong Pacific cold front. Evaporation and downward transfer of high-momentum air from aloft resulted in localized high winds and blowing dust. A man suffered head and neck injuries when a tree in his yard was blown down by the winds in Matador (Motley County) during the early evening hours.

Measured and/or estimated severe wind gusts are listed: 59 mph at Reese Center (Lubbock County) per Texas Tech University West Texas Mesonet, 60 mph at Ropesville (Hockley County) per Texas Tech University West Texas Mesonet meteorologist, 60 mph at Paducah (Cottle County) per Texas Tech University West Texas Mesonet, 61 mph at Lubbock's Preston Smith International Airport (Lubbock County) per Automated Surface Observing System.

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*Virga showers contributed to high winds across the South Plains of west Texas in the wake of a Pacific front during the afternoon hours of the 8th. Photo courtesy: Wes Burgett - Texas Tech University West Texas Mesonet - Lubbock, Texas.*

**(TX-Z028) LAMB, (TX-Z029) HALE**

03/11/10 08:00 CST	0	Winter Weather
03/11/10 11:00 CST	0	

Snowfall on the morning of the 11th resulted in light accumulations over portions of the central South Plains. Although only a dusting of snow was experienced at most locations, 1 inch accumulations were observed in Littlefield (Lamb County) and Plainview (Hale County). No significant public impacts were reported.

**LUBBOCK COUNTY --- 3.5 NNE DOUD [33.61, -101.90], 3.2 W LUBBOCK AIRPARK [33.48, -101.87]**

03/15/10 07:00 CST	0	Heavy Rain
03/15/10 10:00 CST	0	Source: Law Enforcement

Local officials reported that ponding of water from heavy rainfall resulted in the temporary closure of 114th Street near Indiana, and North Flint between Harvard and U.S. Highway 84. No damages were reported.

**LUBBOCK COUNTY --- 4.5 WNW LUBBOCK AIRPARK [33.51, -101.89]**

03/15/10 07:55 CST	0.50M	Lightning
03/15/10 07:55 CST	0	Source: Broadcast Media

Lightning sparked a house fire in the Vintage Township subdivision of south Lubbock shortly before 08:00 CST. Local news reports indicate that the home was a total loss. No injuries were reported.

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<b>(TX-Z030) FLOYD, (TX-Z035) LUBBOCK, (TX-Z036) CROSBY, (TX-Z041) LYNN, (TX-Z042) GARZA</b>				
	03/15/10 14:00 CST	0		Winter Weather
	03/15/10 18:00 CST	0		

A dynamic storm system impacted the west Texas South Plains on the 15th. A round of thunderstorms initially developed over the central South Plains during the morning hours. These storms produced heavy rainfall and damaging lightning in the Lubbock vicinity (Lubbock County).

Rain transitioned to snow during the afternoon hours, and persistent upslope winds along the Caprock escarpment contributed to localized 1 inch to 2 inch accumulations over a small portion of the central South Plains. Public impacts were minimal. A list of reported snow accumulations follows: 2 inches in Southland (Garza County), 1 inch in Crosbyton (Crosby County), 1 inch in Floydada (Floyd County), 1 inch in Slaton (Lubbock County), and 1 inch in Tahoka (Lynn County).



*Snowfall resulted in 1 inch accumulations near Floydada (Floyd County) during the afternoon hours of the 15th. Photo courtesy: Sandra Crawford via KCBD-TV - Lubbock, Texas.*

<b>(TX-Z021) PARMER, (TX-Z022) CASTRO, (TX-Z025) HALL, (TX-Z026) CHILDRESS, (TX-Z027) BAILEY, (TX-Z028) LAMB, (TX-Z029) HALE, (TX-Z030) FLOYD, (TX-Z031) MOTLEY, (TX-Z032) COTTLE, (TX-Z033) COCHRAN, (TX-Z034) HOCKLEY, (TX-Z035) LUBBOCK, (TX-Z036) CROSBY, (TX-Z041) LYNN, (TX-Z042) GARZA</b>				
	03/19/10 21:00 CST	0		Winter Weather
	03/20/10 11:00 CST	0		

**(TX-Z024) BRISCOE**

## Storm Data and Unusual Weather Phenomena - March 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/19/10 21:00 CST		0	Winter Storm
	03/20/10 11:00 CST		0	

Snowfall began to overspread portions of west Texas during the late evening of the 19th and persisted through the morning hours of the 20th. Although a broad area of the southern Panhandle and the South Plains received only light snow accumulations, heavy snowfall resulted in localized but significant accumulations along the south rim of Palo Duro Canyon in Briscoe County.

A list of reported snow accumulations follows: 4 inches at Silverton (Briscoe County), 3 inches at Friona (Parmer County), 3 inches at Kirkland (Childress County), 2 inches at Dimmitt (Castro County), 2 inches at Flomot (Motley County), 2 inches at Littlefield (Lamb County), 2 inches at Matador (Motley County), 2 inches at Muleshoe (Bailey County), 2 inches at Plainview (Hale County), 2 inches at Quitaque (Briscoe County), 2 inches at Turkey (Hall County), 1 inch at Abernathy (Hale County), 1 inch at Childress (Childress County), 1 inch at Crosbyton (Crosby County), 1 inch at Floydada (Floyd County), 1 inch at Hart (Castro County), 1 inch at Lubbock (Lubbock County), 1 inch at Memphis (Hall County), 1 inch at Morton (Cochran County), 1 inch at Paducah (Cottle County), 1 inch at Ropesville (Hockley County), 1 inch at Shallowater (Lubbock County), 1 inch at Southland (Garza County), 1 inch at Tahoka (Lynn County), 1 inch at Tell (Childress County), and 1 inch at Vigo Park (Swisher County).

No significant public impacts were reported.

### (TX-Z041) LYNN

03/23/10 19:50 CST	0	High Wind (MAX 53 kt)
03/23/10 19:50 CST	0	

A localized severe wind gust of 61 mph was measured by the Texas Tech University West Texas Mesonet site near O'Donnell (Lynn County) shortly before 20:00 CST on the 23rd. The high winds developed within ambient strong southwest to westerly gradient winds that were generally sustained in the 20 mph to 30 mph range with higher gusts, but may have been enhanced by high-based virga showers. No damage was reported.

### (TX-Z024) BRISCOE, (TX-Z026) CHILDRESS, (TX-Z028) LAMB, (TX-Z033) COCHRAN, (TX-Z035) LUBBOCK, (TX-Z039) YOAKUM

03/26/10 14:50 CST	0	High Wind (MAX 54 kt)
03/27/10 12:37 CST	0	

### (TX-Z029) HALE

03/26/10 21:30 CST	0.15M	Wildfire
03/27/10 14:00 CST	0	

Intermittent severe wind gusts were measured by the Texas Tech University West Texas Mesonet across the western South Plains of west Texas during the afternoon and evening hours of the 26th. These gradient winds developed both ahead of and behind a strong Pacific cold front, and contributed to critical fire weather conditions.

At least two grass fires ignited on the South Plains of west Texas as the severe westerly winds accompanied the Pacific frontal passage eastward into the central South Plains around 21:30 CST on the 26th. Although one of the fires was of brief duration in Hockley County, the other grew to become a significant wind-driven wildfire that burned through the night in extreme southwestern Hale County, and was temporarily contained around 07:00 CST on the 27th. However, the fire flared up again around 11:00 CST on the 27th as northwesterly winds again increased with the onset of boundary layer mixing in the post frontal environment. The renewed wind-driven fire then destroyed a home. A total of 528 acres were consumed, and no injuries were reported.

A list of measured severe wind gusts follows: 62 mph at Denver City (Yoakum County), 62 mph at Morton (Cochran County), 62 mph at Olton (Lamb County), 62 mph at Reese Center (Lubbock County), 59 mph at Childress (Childress County), and 59 mph at Silverton (Briscoe County).

### (TX-Z028) LAMB

03/31/10 13:00 CST	0	Wildfire
03/31/10 19:00 CST	0	

A large wind-driven grassland fire in northwestern Lamb County charred 3,000 acres of rangeland between Sudan and Olton during the afternoon and evening of the 31st. No significant damages or injuries were reported.