

## Storm Data and Unusual Weather Phenomena - February 2023

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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### OKLAHOMA, Panhandle

#### (OK-Z001) CIMARRON, (OK-Z002) TEXAS, (OK-Z003) BEAVER

	02/01/23 00:00 CST	0		Drought
	02/28/23 23:59 CST	0		

Some light rain and snow fell during the month of February. However, several high wind days dried the moisture right out. Soil moisture remained short to very short across the combined Oklahoma, and Texas Panhandle. The dryness of the soils and the high winds made it difficult to plant wheat as fields were blown out. A lot of farmers were having to replant despite having low expectations. As pastures and rangelands remained in dire straights, ranchers had to continue to supplementally feed livestock. With very dry soils the high winds also caused issues with blowing dust, especially across the northern and western combined Panhandles. Several high wind events caused some dust storms with visibilities dropping to below a quarter of a mile. There were even some automobile accidents and road closures due to the low visibility from blowing dust.

#### (OK-Z002) TEXAS

	02/14/23 10:45 CST	0		High Wind (MAX 73 kt)
	02/14/23 12:10 CST	0		

The first in what became a series of strong upper level systems passed northeast over the Panhandles on February 14th. The upper level system rapidly strengthened as it passed to the northeast, leading to the development of a corridor of very intense winds out of the north on the back side of the system. These damaging wind gusts, as high as 84 mph at the Guymon airport, led to a dust storm the northeastern Panhandles. Farther south, strong gusts to around 60 to 70 mph out of the southwest occurred.

#### (OK-Z001) CIMARRON

	02/15/23 09:00 CST	0		Winter Storm
	02/16/23 04:00 CST	0		

A upper level low pressure system tracked across the Four Corners region towards the Southern High Plains during the early part of the week of February 15. As this system approached the Texas and Oklahoma Panhandles, a cold front slowly moved across the area beginning in the early morning hours of February 15. Behind this front, cold air dropped temperatures below freezing and moisture increased at the low levels. With the upper level system moving closer to the area, this provided enough lift to generate precipitation along and behind the cold front for mainly the northern half of the Panhandles. Snow was the main precipitation type with this system. However, some rain and sleet was also reported in a few locations. Gusty northerly winds also trailed behind the cold front which led to greatly reduced visibilities along with the heavy falling snow. In general, a majority of the northern half of the Panhandles received 2 or more inches of snow with the highest snow total with this system being 8 inches for the far western Oklahoma Panhandle. With temperatures dropping quickly behind the front, any snow and slush that had melted on roadways quickly froze. This caused hazardous driving conditions on the morning of February 16.

#### (OK-Z002) TEXAS

	02/21/23 15:20 CST	0		High Wind (MAX 56 kt)
	02/21/23 16:00 CST	0		

February 21st was a breezy and gusty day across portions of the southern plains. Areas in the central to western combined OK/TX Panhandles saw wind gusts as high as 69 mph. Some of the locations that measured these wind gusts saw multiple gusts that exceeded 58 mph during the heat of the afternoon where temperatures reached into the mid to upper 70s.

#### (OK-Z001) CIMARRON, (OK-Z002) TEXAS

	02/26/23 16:00 CST	0		High Wind (MAX 58 kt)
	02/26/23 16:45 CST	0		

#### (OK-Z001) CIMARRON, (OK-Z002) TEXAS

	02/26/23 16:00 CST	0		Dust Storm
	02/26/23 18:00 CST	0		

A vigorous upper level system passed over the southern Great Plains on Sunday February 26th, 2023. This brought widespread strong winds and blowing dust to the Panhandles, particularly during the late afternoon and evening hours as a Pacific cold front rapidly moved eastward, with the large amount of dust leading to greatly reduced visibility and treacherous driving conditions. East of this front, severe thunderstorms developed which led to two tornadoes in the southeastern Texas Panhandle and additional damaging winds.

TEXAS COUNTY --- 1.8 ENE GOODWELL [36.61, -101.60]

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	02/26/23 16:30 CST		0	Thunderstorm Wind (MG 59 kt)
	02/26/23 16:30 CST		0	Source: Mesonet
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TEXAS COUNTY --- 0.7 N (GUY)GUYMON MUNI ARP [36.69, -101.50]				
	02/26/23 16:37 CST		0	Thunderstorm Wind (MG 52 kt)
	02/26/23 16:37 CST		0	Source: ASOS
<hr/>				
TEXAS COUNTY --- 0.7 N (GUY)GUYMON MUNI ARP [36.69, -101.50]				
	02/26/23 17:16 CST		0	Thunderstorm Wind (MG 52 kt)
	02/26/23 17:16 CST		0	Source: ASOS
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BEAVER COUNTY --- 1.5 SSW BEAVER [36.80, -100.53]				
	02/26/23 17:45 CST		0	Thunderstorm Wind (MG 55 kt)
	02/26/23 17:45 CST		0	Source: Mesonet

A vigorous upper level system passed over the southern Great Plains on Sunday February 26th, 2023. This brought widespread strong winds and blowing dust to the Panhandles, particularly during the late afternoon and evening hours as a Pacific cold front rapidly moved eastward, with the large amount of dust leading to greatly reduced visibility and treacherous driving conditions. East of this front, severe thunderstorms developed which led to two tornadoes in the southeastern Texas Panhandle and additional damaging winds.

### TEXAS, North Panhandle

(TX-Z001) DALLAM, (TX-Z002) SHERMAN, (TX-Z003) HANSFORD, (TX-Z004) OCHILTREE, (TX-Z005) LIPSCOMB, (TX-Z006) HARTLEY, (TX-Z007) MOORE, (TX-Z008) HUTCHINSON, (TX-Z009) ROBERTS, (TX-Z010) HEMPHILL, (TX-Z011) OLDHAM, (TX-Z012) POTTER, (TX-Z013) CARSON, (TX-Z014) GRAY, (TX-Z016) DEAF SMITH, (TX-Z017) RANDALL COUNTY, (TX-Z020) COLLINGSWORTH

02/01/23 00:00 CST	0	Drought
02/28/23 23:59 CST	0	

Some light rain and snow fell during the month of February. However, several high wind days dried the moisture right out. Soil moisture remained short to very short across the combined Oklahoma, and Texas Panhandle. The dryness of the soils and the high winds made it difficult to plant wheat as fields were blown out. A lot of farmers were having to replant despite having low expectations. As pastures and rangelands remained in dire straights, ranchers had to continue to supplementally feed livestock. With very dry soils the high winds also caused issues with blowing dust, especially across the northern and western combined Panhandles. Several high wind events caused some dust storms with visibilities dropping to below a quarter of a mile. There were even some automobile accidents and road closures due to the low visibility from blowing dust.

(TX-Z006) HARTLEY

02/09/23 12:18 CST	0	High Wind (MAX 53 kt)
02/09/23 13:04 CST	0	

Winds gusted to 61mph, 60, mph and 58 mph at Dalhart.

(TX-Z002) SHERMAN, (TX-Z003) HANSFORD, (TX-Z004) OCHILTREE, (TX-Z005) LIPSCOMB, (TX-Z006) HARTLEY, (TX-Z007) MOORE, (TX-Z008) HUTCHINSON, (TX-Z010) HEMPHILL, (TX-Z011) OLDHAM, (TX-Z012) POTTER, (TX-Z013) CARSON, (TX-Z014) GRAY, (TX-Z015) WHEELER, (TX-Z016) DEAF SMITH, (TX-Z017) RANDALL COUNTY, (TX-Z018) ARMSTRONG, (TX-Z019) DONLEY, (TX-Z020) COLLINGSWORTH

02/14/23 09:45 CST	0	High Wind (MAX 67 kt)
02/14/23 14:42 CST	0	

The first in what became a series of strong upper level systems passed northeast over the Panhandles on February 14th. The upper level system rapidly strengthened as it passed to the northeast, leading to the development of a corridor of very intense winds out of the north on the back side of the system. These damaging wind gusts, as high as 84 mph at the Guymon airport, led to a dust storm the northeastern Panhandles. Farther south, strong gusts to around 60 to 70 mph out of the southwest occurred.

(TX-Z012) POTTER, (TX-Z013) CARSON

02/14/23 15:59 CST	0	High Wind (MAX 51 kt)
02/15/23 16:18 CST	0	

A upper level low pressure system tracked across the Four Corners region towards the Southern High Plains during the early part of the week of February 15. As this system approached the Texas and Oklahoma Panhandles, a cold front slowly moved across the area beginning in the early morning hours of February 15. Behind this front, cold air dropped temperatures below freezing and moisture

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increased at the low levels. With the upper level system moving closer to the area, this provided enough lift to generate precipitation along and behind the cold front for mainly the northern half of the Panhandles. Snow was the main precipitation type with this system. However, some rain and sleet was also reported in a few locations. Gusty northerly winds also trailed behind the cold front which led to greatly reduced visibilities along with the heavy falling snow. In general, a majority of the northern half of the Panhandles received 2 or more inches of snow with the highest snow total with this system being 8 inches for the far western Oklahoma Panhandle. With temperatures dropping quickly behind the front, any snow and slush that had melted on roadways quickly froze. This caused hazardous driving conditions on the morning of February 16.

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**(TX-Z016) DEAF SMITH**

	02/20/23 12:04 CST	0		High Wind (MAX 56 kt)
	02/20/23 12:47 CST	0		

February 20th was a breezy and gusty day. Most places around the TX Panhandle only gusted upwards of 50 to 57 mph. However, one mesonet station located near Hereford, TX had a few wind gusts reach or exceed 58 mph. The highest gust was 64 mph.

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**(TX-Z001) DALLAM, (TX-Z002) SHERMAN, (TX-Z006) HARTLEY, (TX-Z007) MOORE, (TX-Z008) HUTCHINSON, (TX-Z012) POTTER, (TX-Z013) CARSON, (TX-Z014) GRAY**

	02/21/23 12:04 CST	0		High Wind (MAX 60 kt)
	02/21/23 17:15 CST	0		

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**(TX-Z006) HARTLEY, (TX-Z017) RANDALL COUNTY**

	02/21/23 14:50 CST	15K		Dust Storm
	02/21/23 15:32 CST	0		

February 21st was a breezy and gusty day across portions of the southern plains. Areas in the central to western combined OK/TX Panhandles saw wind gusts as high as 69 mph. Some of the locations that measured these wind gusts saw multiple gusts that exceeded 58 mph during the heat of the afternoon where temperatures reached into the mid to upper 70s.

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**(TX-Z001) DALLAM, (TX-Z006) HARTLEY, (TX-Z007) MOORE, (TX-Z011) OLDHAM, (TX-Z012) POTTER**

	02/22/23 16:40 CST	0		High Wind (MAX 61 kt)
	02/22/23 20:06 CST	0		

February 22nd was another breezy and gusty day for much of the central to western combined Oklahoma and Texas Panhandles. During the heat of the afternoon higher winds aloft were able to mix to the surface just briefly and locations in the western combined Panhandles gusted as high as 70 mph. A couple of these locations only had one gust exceed 58 mph, while some locations had multiple gusts exceeding 58 mph.

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**(TX-Z001) DALLAM, (TX-Z002) SHERMAN, (TX-Z005) LIPSCOMB, (TX-Z006) HARTLEY, (TX-Z007) MOORE, (TX-Z008) HUTCHINSON, (TX-Z010) HEMPHILL, (TX-Z011) OLDHAM, (TX-Z012) POTTER, (TX-Z013) CARSON, (TX-Z014) GRAY, (TX-Z016) DEAF SMITH, (TX-Z017) RANDALL COUNTY, (TX-Z018) ARMSTRONG, (TX-Z019) DONLEY, (TX-Z020) COLLINGSWORTH**

	02/26/23 13:59 CST	50K		High Wind (MAX 76 kt)
	02/26/23 23:00 CST	0		

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**(TX-Z002) SHERMAN, (TX-Z006) HARTLEY, (TX-Z011) OLDHAM, (TX-Z012) POTTER, (TX-Z016) DEAF SMITH, (TX-Z017) RANDALL COUNTY**

	02/26/23 14:50 CST	15K		Dust Storm
	02/26/23 20:30 CST	0		

A vigorous upper level system passed over the southern Great Plains on Sunday February 26th, 2023. This brought widespread strong winds and blowing dust to the Panhandles, particularly during the late afternoon and evening hours as a Pacific cold front rapidly moved eastward, with the large amount of dust leading to greatly reduced visibility and treacherous driving conditions. East of this front, severe thunderstorms developed which led to two tornadoes in the southeastern Texas Panhandle and additional damaging winds.

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**DALLAM COUNTY --- 2.1 N TEXLINE [36.41, -103.02]**

	02/26/23 15:15 CST	0		Thunderstorm Wind (MG 62 kt)
	02/26/23 15:15 CST	0		Source: Mesonet

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**SHERMAN COUNTY --- 15.5 ESE LAUTZ [36.14, -101.77]**

	02/26/23 15:52 CST	0		Thunderstorm Wind (MG 56 kt)
	02/26/23 15:52 CST	0		Source: Mesonet

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**HUTCHINSON COUNTY --- 1.4 N STINNETT [35.84, -101.45]**

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	02/26/23 16:21 CST		0	Thunderstorm Wind (MG 51 kt)
	02/26/23 16:21 CST		0	Source: Public
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<b>MOORE COUNTY --- 2.8 E LAKE MEREDITH [35.65, -101.62]</b>				
	02/26/23 16:22 CST		0	Thunderstorm Wind (MG 50 kt)
	02/26/23 16:22 CST		0	Source: Mesonet
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<b>HUTCHINSON COUNTY --- 0.7 N FRITCH [35.64, -101.60]</b>				
	02/26/23 16:25 CST		0	Hail (0.88 in)
	02/26/23 16:25 CST		0	Source: Trained Spotter
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<b>POTTER COUNTY --- 9.7 N AMARILLO [35.34, -101.81]</b>				
	02/26/23 16:27 CST		0	Thunderstorm Wind (MG 69 kt)
	02/26/23 16:27 CST		0	Source: Mesonet
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<b>POTTER COUNTY --- 0.9 NE (AMA)AMARILLO INTL A [35.23, -101.71]</b>				
	02/26/23 16:32 CST		0	Thunderstorm Wind (MG 64 kt)
	02/26/23 16:32 CST		0	Source: ASOS
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<b>RANDALL COUNTY --- 1.1 W CANYON [34.98, -101.94]</b>				
	02/26/23 16:33 CST		0	Thunderstorm Wind (MG 63 kt)
	02/26/23 16:33 CST		0	Source: Mesonet
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<b>HUTCHINSON COUNTY --- HUTCHINSON CO ARPT [35.70, -101.40]</b>				
	02/26/23 16:36 CST		0	Thunderstorm Wind (MG 62 kt)
	02/26/23 16:36 CST		0	Source: ASOS
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<b>MOORE COUNTY --- 3.1 ESE DUMAS [35.83, -101.92]</b>				
	02/26/23 16:40 CST		0	Thunderstorm Wind (MG 70 kt)
	02/26/23 16:40 CST		0	Source: Mesonet
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<b>ARMSTRONG COUNTY --- 0.6 E GOODNIGHT [35.03, -101.19]</b>				
	02/26/23 17:11 CST		0	Thunderstorm Wind (MG 56 kt)
	02/26/23 17:11 CST		0	Source: Mesonet
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<b>HANSFORD COUNTY --- 11.1 N SPEARMAN [36.36, -101.18]</b>				
	02/26/23 17:12 CST		0	Thunderstorm Wind (MG 58 kt)
	02/26/23 17:12 CST		0	Source: Mesonet
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<b>CARSON COUNTY --- 2.7 SE PANTEX [35.30, -101.54]</b>				
	02/26/23 17:33 CST		0	Thunderstorm Wind (MG 67 kt)
	02/26/23 17:33 CST		0	Source: Mesonet
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<b>GRAY COUNTY --- 1.1 W ALANREED [35.22, -100.75]</b>				
	02/26/23 18:00 CST		10K	Thunderstorm Wind (EG 65 kt)
	02/26/23 18:00 CST		0	Source: Law Enforcement
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<b>ARMSTRONG COUNTY --- 15.2 SSE GOODNIGHT [34.82, -101.12]</b>				
	02/26/23 18:03 CST		0	Thunderstorm Wind (MG 57 kt)
	02/26/23 18:03 CST		0	Source: Mesonet
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<b>DONLEY COUNTY --- 1.7 W CLARENDON [34.93, -100.93]</b>				
	02/26/23 18:05 CST		0	Thunderstorm Wind (MG 69 kt)
	02/26/23 18:05 CST		0	Source: Mesonet

An 18 wheeler was blown over and another one had jackknifed at mile marker 134 eastbound on I-40.

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<b>GRAY COUNTY --- MC LEAN [35.23, -100.60]</b>				
	02/26/23 18:12 CST		5K	Thunderstorm Wind (EG 65 kt)
	02/26/23 18:12 CST		0	Source: Trained Spotter
Spotter reported a garage door blown in on a business in the city of McLean.				
<b>GRAY COUNTY --- 9.7 W ALANREED [35.24, -100.90]</b>				
	02/26/23 18:15 CST		0	Thunderstorm Wind (MG 53 kt)
	02/26/23 18:15 CST		0	Source: Mesonet
<b>WHEELER COUNTY --- 9.1 W LELA [35.23, -100.51]</b>				
	02/26/23 18:20 CST		0	Hail (1.75 in)
	02/26/23 18:20 CST		0	Source: Trained Spotter
<b>WHEELER COUNTY --- 3.2 NW LELA [35.25, -100.40], 3.2 NW LELA [35.25, -100.39]</b>				
	02/26/23 18:29 CST		0	Tornado (EF0, L: 0.19 mi , W: 25 yd)
	02/26/23 18:30 CST		0	Source: NWS Storm Survey
Video evidence indicated a very brief tornado about 2.6 miles northwest of Lela. No damage was observed. The size, strength, and duration of the tornado were estimated based on a combination of video and radar data.				
<b>WHEELER COUNTY --- 0.9 S KELTON [35.39, -100.12], 1.5 E KELTON [35.40, -100.09]</b>				
	02/26/23 18:41 CST		0	Tornado (EF1, L: 1.88 mi , W: 50 yd)
	02/26/23 18:46 CST		0	Source: NWS Storm Survey
Storm chaser video helped identify starting point. There was eventually damage to an outbuilding which was the strongest degree of damage where 110 mph winds were estimated.				
<b>WHEELER COUNTY --- 1.7 E KELTON [35.40, -100.09]</b>				
	02/26/23 18:47 CST		5K	Thunderstorm Wind (EG 70 kt)
	02/26/23 18:47 CST		0	Source: Storm Chaser
House or barn was significantly damaged, no longer standing. Tree was also uprooted and snapped in the area.				
<b>COLLINGSWORTH COUNTY --- 3.1 NW DOZIER [35.11, -100.39]</b>				
	02/26/23 18:48 CST		0	Thunderstorm Wind (MG 56 kt)
	02/26/23 18:48 CST		0	Source: Mesonet
<b>WHEELER COUNTY --- 2.3 E KELTON [35.40, -100.08]</b>				
	02/26/23 18:48 CST		45K	Thunderstorm Wind (EG 87 kt)
	02/26/23 18:48 CST		0	Source: NWS Employee
Three snapped wood power poles found on damage survey. Estimated wind speeds of 100 mph.				
<b>WHEELER COUNTY --- 2.8 E KELTON [35.40, -100.07]</b>				
	02/26/23 18:50 CST		30K	Thunderstorm Wind (EG 78 kt)
	02/26/23 18:50 CST		0	Source: NWS Employee
Farm outbuilding had roof uplifted and destroyed. Nearby farm house also had a quarter of its shingles lost on the west side. Estimated wind speeds of 90 mph.				
<b>WHEELER COUNTY --- SHAMROCK [35.22, -100.25]</b>				
	02/26/23 18:50 CST		15K	Thunderstorm Wind (EG 87 kt)
	02/26/23 18:50 CST		0	Source: Public
Power lines were reported down in Shamrock.				

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<b>COLLINGSWORTH COUNTY --- 0.6 W WELLINGTON [34.85, -100.23], 0.6 E WELLINGTON [34.85, -100.21]</b>				
	02/26/23 18:52 CST		0	Hail (1.50 in)
	02/26/23 18:55 CST		0	Source: Trained Spotter

Several reports of quarter size hail in Wellington were received south and southwest of of town.

<b>WHEELER COUNTY --- 4.6 E KELTON [35.41, -100.04]</b>				
	02/26/23 18:52 CST		10K	Thunderstorm Wind (EG 87 kt)
	02/26/23 18:52 CST		0	Source: NWS Employee

Eight wood power poles broken/snapped. Estimated wind speeds of 100 mph.

<b>COLLINGSWORTH COUNTY --- 5.7 SE WELLINGTON [34.79, -100.15]</b>				
	02/26/23 18:58 CST		0	Thunderstorm Wind (MG 54 kt)
	02/26/23 18:58 CST		0	Source: Mesonet

<b>WHEELER COUNTY --- 5.6 E KELTON [35.40, -100.02]</b>				
	02/26/23 19:03 CST		0	Thunderstorm Wind (EG 74 kt)
	02/26/23 19:03 CST		0	Source: Storm Chaser

Destroyed out buildings and several trees were reported down, 5 miles east of Kelton on Highway 2697.

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<b>(TX-Z011) OLDHAM, (TX-Z013) CARSON</b>				
	02/26/23 17:36 CST		0	Wildfire
	02/27/23 19:50 CST		0	

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