

Storm Data and Unusual Weather Phenomena - December 2022

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

(TX-Z025) HALL, (TX-Z026) CHILDRESS

	12/22/22 01:49 CST	0		High Wind (MAX 53 kt)
	12/22/22 13:30 CST	0		

Air of arctic origin invaded Texas beginning in the early morning hours of the 22nd. The arrival of the frigid air was accompanied by strong and gusty north winds commonly sustained in the 25 to 35 mph range. The combination pushed wind chills well below zero, with many locations recording wind chill values as low as -15°F to -30°F degrees. The coldest readings were felt across the southwest Texas Panhandle. Isolated high winds were reported after the cold front moved through the area. Although some businesses around the region reported broken water pipes, widespread damage was not reported.

Maximum wind gusts were observed by the Texas Tech University West Texas mesonet:

61 mph at Childress (Childress County),
 58 mph at Childress ASOS (Childress County), and
 58 mph at Turkey (Hall County).

(TX-Z022) CASTRO, (TX-Z023) SWISHER, (TX-Z024) BRISCOE, (TX-Z035) LUBBOCK

	12/28/22 11:50 CST	0		High Wind (MAX 57 kt)
	12/28/22 19:03 CST	0		

Although strong winds aloft were moving over the region on the 28th, thick overcast skies limited the amount of vertical boundary layer mixing. This generally prevented surface winds from becoming strong across a widespread area. A small break in the clouds across the extreme southern Texas Panhandle allowed rapid boundary layer mixing allowing some of these winds to mix down to the surface from late morning through early afternoon. Additionally, a virga shower produced a severe wind gust of 59 mph at the Lubbock International Airport Automated Surface Observing System (Lubbock County).

Maximum wind gusts from the Texas Tech University West Texas mesonet:

66 mph at Tulia (Swisher County),
 62 mph at Vigo Park (Swisher County),
 62 mph at Silverton (Briscoe County),
 59 mph at Hart (Castro County), and
 59 mph at Caprock Canyons State Park (Briscoe County).

(TX-Z024) BRISCOE, (TX-Z035) LUBBOCK

	12/29/22 08:48 CST	0		High Wind (MAX 56 kt)
	12/29/22 12:39 CST	0		

A very narrow corridor of 50-60 knot winds at 850mb was able to mix down to the surface quickly after sunrise from approximately Briscoe County southward through Lubbock County. A few areas saw severe wind gusts through the morning and early afternoon hours before winds decreased by mid-afternoon.

Peak wind gusts from the Texas Tech University West Texas mesonet follow:

64 mph at Caprock Canyons State Park (Briscoe County),
 60 mph at Lubbock International Airport (ASOS, Lubbock County), and
 59 mph at Silverton (Briscoe County).