

Storm Data and Unusual Weather Phenomena - August 2020

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

(TX-Z021) PARMER, (TX-Z022) CASTRO, (TX-Z023) SWISHER, (TX-Z024) BRISCOE, (TX-Z026) CHILDRRESS, (TX-Z027) BAILEY, (TX-Z028) LAMB, (TX-Z029) HALE, (TX-Z030) FLOYD, (TX-Z031) MOTLEY, (TX-Z033) COCHRAN, (TX-Z034) HOCKLEY, (TX-Z035) LUBBOCK, (TX-Z039) YOAKUM, (TX-Z040) TERRY

08/01/20 00:00 CST	0	Drought
08/31/20 23:59 CST	0	

Drought conditions worsened during the month of August due to a continued lack of widespread beneficial rainfall. An area of D4 (exceptional drought) was observed in parts of Lamb, Hale, Hockley, and Lubbock Counties. Elsewhere saw the expansion of D3 (extreme drought) across the extreme southwestern Texas Panhandle and the northern South Plains. Additionally, Childress County deteriorated to D3 drought conditions. Most of the region only saw 25% to 75% of normal rainfall with some areas receiving near normal rainfall. The mean temperature at Lubbock Preston Smith International Airport was 83.3 degrees Fahrenheit which is the third warmest August on record. The two warmer August months were in 2019 and the last time the region was in D4 drought in 2011.

Dryland crops continued to suffer from this stretch of hot and dry weather in many parts of the region. Up to 33% of the cotton crop in Texas was reported as poor to very poor. The majority of the cotton crop, pasture, and rangeland across the Rolling Plains was reported as fair to good due to the heavier rain that had occurred across this region.

GARZA COUNTY --- 8.8 ENE JUSTICEBURG [33.08, -101.06]

08/01/20 15:13 CST	0	Thunderstorm Wind (MG 50 kt)
08/01/20 15:13 CST	0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Lake Alan Henry measured a wind gust to 58 mph.

DICKENS COUNTY --- 1.0 W SPUR [33.48, -100.87]

08/01/20 15:18 CST	0	Hail (0.88 in)
08/01/20 15:18 CST	0	Source: Law Enforcement

Very warm temperatures and surface convergence along the edge of the caprock allowed for isolated thunderstorms to develop and move southward across the southern Rolling Plains. Ample instability upwards of 1500 J/kg were able to produce vigorous updrafts. One of these storms became severe as it moved over Lake Alan Henry (Garza County) producing a wind gust to 58 mph.

MOTLEY COUNTY --- 1.0 S NORTHFIELD [34.27, -100.60]

08/02/20 16:50 CST	0	Thunderstorm Wind (MG 52 kt)
08/02/20 16:50 CST	0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Northfield measured a wind gust to 60 mph.

CROSBY COUNTY --- 6.0 NW WHITE RIVER LAKE [33.52, -101.16]

08/02/20 16:55 CST	0	Thunderstorm Wind (MG 85 kt)
08/02/20 17:05 CST	0	Source: Mesonet

A Texas Tech University West Texas mesonet site near White River Lake measured a peak wind gust of 98 mph at 1705 CST. Severe wind gusts were measured between 1655 and 1705 CST.

On the afternoon of the second, thunderstorms initiated along an old outflow boundary in the Rolling Plains. These storms were aided by some lift from a weak upper level jet streak moving across southwestern Oklahoma. These thunderstorms propagated to the southeast through the late afternoon hours. A very deeply mixed atmosphere contributed to these thunderstorms producing severe wind gusts. The strongest storm of the day produced a wind gust to 98 mph near White River Lake (Crosby County).

BRISCOE COUNTY --- 7.0 ESE SILVERTON [34.43, -101.19]

08/10/20 21:30 CST	0	Thunderstorm Wind (MG 63 kt)
08/10/20 21:30 CST	0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Silverton measured a wind gust to 73 mph.

HALL COUNTY --- 2.0 WSW TURKEY [34.39, -100.91]

08/10/20 22:00 CST	0	Thunderstorm Wind (MG 50 kt)
08/10/20 22:00 CST	0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Turkey measured a wind gust to 58 mph.

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COTTLE COUNTY --- 10.0 SW PADUCAH [33.92, -100.42]				
	08/10/20 23:10 CST		0	Thunderstorm Wind (MG 53 kt)
	08/10/20 23:10 CST		0	Source: Mesonet
A Texas Tech University West Texas mesonet site near Paducah measured a wind gust to 61 mph.				
Strong heating combined with a weak mid level impulse to generate scattered thunderstorms across the Texas Panhandle on the afternoon and evening of the 10th. Very hot temperatures led to a deeply mixed atmosphere and high based thunderstorm activity. Some of these scattered thunderstorms became severe as they moved across the extreme southeastern Texas Panhandle producing measured severe wind gusts.				
CASTRO COUNTY --- 2.0 NE DIMMITT [34.57, -102.30]				
	08/11/20 18:30 CST		0	Thunderstorm Wind (MG 53 kt)
	08/11/20 18:30 CST		0	Source: Mesonet
A Texas Tech University West Texas mesonet site near Dimmitt measured a wind gust to 61 mph.				
HALE COUNTY --- 1.0 S PLAINVIEW [34.19, -101.70]				
	08/11/20 22:20 CST		0	Thunderstorm Wind (MG 54 kt)
	08/11/20 22:20 CST		0	Source: Mariner
A Texas Tech University West Texas mesonet site near Plainview measured a wind gust to 62 mph.				
HALE COUNTY --- 8.7 SE SETH WARD [34.13, -101.57]				
	08/11/20 22:23 CST		0	Thunderstorm Wind (MG 50 kt)
	08/11/20 22:26 CST		0	Source: Mesonet
A Texas Tech University West Texas mesonet site near Aiken measured severe wind gusts of 58 mph at 2223 CST and 2226 CST.				
Isolated thunderstorms developed along a surface pressure trough in eastern New Mexico late in the afternoon of the 11th. One of these storms became long lived in West Texas generating severe wind gusts near Dimmitt (Castro County) and again in Hale County near Plainview and Aiken.				
LAMB COUNTY --- 9.0 WSW EARTH [34.18, -102.55]				
	08/14/20 17:57 CST		0	Thunderstorm Wind (MG 56 kt)
	08/14/20 17:58 CST		0	Source: Mesonet
A Texas Tech University West Texas mesonet site near Earth measured a wind gust to 64 mph from 1757 to 1758 CST.				
(TX-Z039) YOAKUM				
	08/14/20 19:55 CST		0	High Wind (MAX 52 kt)
	08/14/20 20:05 CST		0	
Scattered thunderstorms developed along a surface pressure trough both in the southern Texas Panhandle and in eastern New Mexico on the afternoon of the 14th. These scattered thunderstorms produced one severe wind gust near Earth (Lamb County). As the thunderstorms moved south and dissipated, they created a strong outflow boundary well ahead of the dissipating convection. Severe wind gusts up to 60 mph were reported by a Texas Tech University West Texas mesonet near Plains (Yoakum County) with the outflow boundary.				
HALL COUNTY --- 2.0 S LESLEY [34.64, -100.80]				
	08/16/20 15:14 CST		0	Thunderstorm Wind (MG 58 kt)
	08/16/20 15:33 CST		0	Source: Mesonet
A Texas Tech University West Texas mesonet site near Lesley measured a peak wind gust to 67 mph at 1522 CST. Intermittent severe wind gusts were measured from 1514 through 1533 CST.				
HALL COUNTY --- 1.0 NE MEMPHIS [34.73, -100.52]				
	08/16/20 15:40 CST		0	Thunderstorm Wind (MG 58 kt)
	08/16/20 15:50 CST		0	Source: Mesonet
A Texas Tech University West Texas mesonet site near Memphis measured a peak wind gust of 67 mph at 1540 CST. Severe wind gusts were measured from 1540 through 1550 CST.				

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MOTLEY COUNTY --- 1.0 S NORTHFIELD [34.27, -100.60]				
	08/16/20 15:55 CST		0	Thunderstorm Wind (MG 56 kt)
	08/16/20 16:15 CST		0	Source: Mariner
A Texas Tech University West Texas mesonet site near Northfield measured a peak wind gust of 65 mph at 1610 CST. Severe wind gusts were measured from 1555 through 1615 CST.				
HALL COUNTY --- 2.0 S LESLEY [34.64, -100.80]				
	08/16/20 16:06 CST		0	Thunderstorm Wind (MG 56 kt)
	08/16/20 16:06 CST		0	Source: Mesonet
A Texas Tech University West Texas mesonet site near Lesley measured a peak wind gust of 65 mph.				
HALL COUNTY --- 3.0 SSE ESTELLINE [34.51, -100.41]				
	08/16/20 16:15 CST		0	Thunderstorm Wind (MG 60 kt)
	08/16/20 16:18 CST		0	Source: Mesonet
A Texas Tech University West Texas mesonet site near Estelline measured a peak wind gust to 69 mph at 1615 CST. Intermittent severe wind gusts were measured from 1615 through 1618 CST.				
COTTLÉ COUNTY --- 10.0 SW PADUCAH [33.92, -100.42]				
	08/16/20 16:30 CST		0	Thunderstorm Wind (MG 56 kt)
	08/16/20 17:00 CST		0	Source: Mesonet
A Texas Tech University West Texas mesonet site near Paducah measured a peak wind gust to 65 mph at 1635 CST. Intermittent severe wind gusts were measured from 1630 through 1700 CST.				
HALL COUNTY --- 3.0 S ESTELLINE [34.51, -100.43]				
	08/16/20 16:31 CST		0	Hail (1.00 in)
	08/16/20 16:31 CST		0	Source: Trained Spotter
A trained spotter reported quarter size hail about three miles south of Estelline.				
COTTLÉ COUNTY --- 2.0 SSE HACKBERRY [33.90, -100.14]				
	08/16/20 16:48 CST		0	Thunderstorm Wind (MG 68 kt)
	08/16/20 16:58 CST		0	Source: Mesonet
A Texas Tech University West Texas mesonet site near Hackberry measured a peak wind gust to 78 mph at 1653 CST. Intermittent severe wind gusts were measured from 1648 through 1658 CST.				
COTTLÉ COUNTY --- 2.0 SSE HACKBERRY [33.90, -100.14]				
	08/16/20 18:55 CST		0	Thunderstorm Wind (MG 53 kt)
	08/16/20 18:55 CST		0	Source: Mesonet
A Texas Tech University West Texas mesonet site near Hackberry measured a wind gust to 61 mph.				
<p>A differential heating boundary developed along the edge of the caprock on the afternoon of the 16th. A very hot and deeply mixed atmosphere existed across the Rolling Plains and extreme southeastern Texas Panhandle generating upwards of 2000 J/kg of instability. However, DCAPEs were also in excess of 1500 J/kg which supported strong downdraft winds. Scattered thunderstorms developed within the aforementioned area with many of these storms producing severe wind gusts throughout the afternoon and early evening.</p>				
SWISHER COUNTY --- 2.0 ENE TULIA [34.54, -101.74]				
	08/29/20 20:45 CST		0	Thunderstorm Wind (MG 57 kt)
	08/29/20 20:45 CST		0	Source: Mesonet
A Texas Tech University West Texas mesonet site near Tulia measured a wind gust to 66 mph.				
HALL COUNTY --- 2.0 S LESLEY [34.64, -100.80]				
	08/29/20 21:15 CST		0	Thunderstorm Wind (MG 56 kt)
	08/29/20 21:19 CST		0	Source: Mesonet

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A Texas Tech University West Texas mesonet site near Lesley measured a peak wind gust of 65 mph at 2115 CST. Severe winds were measured from 2115 through 2119 CST.				

BRISCOE COUNTY --- 7.0 ESE SILVERTON [34.43, -101.19]				
	08/29/20 21:25 CST		0	Thunderstorm Wind (MG 51 kt)
	08/29/20 21:25 CST		0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Silverton measured a wind gust of 59 mph.

BRISCOE COUNTY --- CAPROCK CANYONS STATE PARK [34.41, -101.07]				
	08/29/20 21:37 CST		0	Thunderstorm Wind (MG 52 kt)
	08/29/20 21:37 CST		0	Source: Mesonet

A Texas Tech University West Texas mesonet site at Caprock Canyons State Park measured a wind gust to 60 mph.

HALL COUNTY --- 2.0 WSW TURKEY [34.39, -100.91]				
	08/29/20 21:55 CST		0	Thunderstorm Wind (MG 51 kt)
	08/29/20 21:55 CST		0	Source: Mesonet

A Texas Tech University West Texas mesonet site near Turkey measured a wind gust to 59 mph.

BRISCOE COUNTY --- CAPROCK CANYONS STATE PARK [34.41, -101.07]				
	08/29/20 22:45 CST		0	Thunderstorm Wind (MG 50 kt)
	08/29/20 22:45 CST		0	Source: Mesonet

A Texas Tech University West Texas mesonet site at Caprock Canyons State Park measured a wind gust to 58 mph.

Convection developed off the higher terrain of northeastern New Mexico on the afternoon of the 29th. As this convection moved into the central Texas Panhandle, a strong outflow boundary moved south into the extreme south-central Texas Panhandle. Numerous thunderstorms developed on the north side of the outflow boundary producing numerous reports of severe wind gusts as they slowly moved across the extreme south-central Texas Panhandle.