Storm Data and Unusual Weather Phenomena - July 2022

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details	
EXAS, South Panhandle					
TX-Z021) PARMER, (TX-Z022) CASTRO, (TX-Z023) TX-Z028) LAMB, (TX-Z029) HALE, (TX-Z030) FLO TX-Z035) LUBBOCK, (TX-Z036) CROSBY, (TX-Z0 GARZA, (TX-Z043) KENT, (TX-Z044) STONEWALL	YD, (TX-Z031) MOTLEY, 37) DICKENS, (TX-Z038)	(TX-Z032) COTTLE,	(TX-Z033) COCHE	RAN, (TX-Z034) HOCKLEY,	
	07/01/22 00:00 CST		0	Drought	
	07/31/22 22:59 CST		0		
Rainfall deficits continued to deepen throughout grew to include all but portions of the western So levels. Exceptional drought (D4) expanded slight extreme southwestern Texas Panhandle.	outh Plains where earlier	spring rains were I	imiting drought co	onditions to severe (D2)	
Rainfall through the month was between zero and ocations including Lubbock (Lubbock County) w ecord. The North American monsoon remained i expanded into West Texas for a few days during continued with overall dry conditions resulting in wildfire danger.	where 18 days of 100 deg mostly to the west of the the month which brough	rees or higher temp region which is typ t beneficial but spo	peratures were rec pical for July. This tty rainfall. Wide r	orded which is a new monsoon moisture anging agricultural impacts	
COTTLE COUNTY 2.0 SSE HACKBERRY [33.90	0, -100.14]				
	07/03/22 15:03 CST		0	Thunderstorm Wind (MG 52 kt)	
	07/03/22 15:04 CST		0	Source: Mesonet	
A Texas Tech University West Texas mesonet site r nph was measured at 1504 CST. BRISCOE COUNTY 7.0 ESE SILVERTON [34.43		severe wind gusts f	rom 1503 CST thro		
	07/03/22 17:22 CST 07/03/22 17:22 CST		0	Thunderstorm Wind (MG 50 kt) Source: Mesonet	
Texas Tech University West Texas mesonet site r	near Silverton measured a	wind gust of 58 mp	h.		
/ery hot temperatures on the afternoon of the thi hunderstorms to develop off the caprock. Relati produced a couple of severe wind gusts near Ha	vely dry sub-cloud layers	s allowed for strong	I downburst winds		
COCHRAN COUNTY 1.0 ENE MORTON [33.73,	-102.75]				
	07/04/22 18:34 CST		0	Thunderstorm Wind (MG 53 kt)	
	07/04/22 18:34 CST		0	Source: Mesonet	
Texas Tech University West Texas mesonet site r	near Morton measured a v	vind gust of 61 mph.			
Very hot temperatures on the afternoon of the for sub-cloud layer enhanced the downburst potenti near Morton (Cochran County).			-		
UBBOCK COUNTY 3.9 SSW LUBBOCK [33.53	3, -101.88]				
	07/05/22 15:05 CST		0	Thunderstorm Wind (MG 55 kt)	
	07/05/22 15:05 CST		0	Source: Official NWS Observations	
wind gust of 63 mph was measured at the Nation	al Weather Service Weat	ner Forecast Office i	n Lubbock.		
	911				
HALL COUNTY 2.0 WSW TURKEY [34.39, -100.					
IALL COUNTY 2.0 WSW TURKEY [34.39, -100.	07/05/22 18:44 CST		0	Thunderstorm Wind (MG 51 kt)	
IALL COUNTY 2.0 WSW TURKEY [34.39, -100.	-		0 0	Thunderstorm Wind (MG 51 kt) Source: Mesonet	

A third consecutive afternoon of very hot temperatures allowed isolated thunderstorms to develop across the region under a monsoonal fetch of mid-level moisture. A relatively dry sub-cloud layer allowed a couple of these storms to produce severe downburst winds in Lubbock (Lubbock County) and near Turkey (Hall County).

Storm Data and Unusual Weather Phenomena - July 2022 Location Date/Time Deaths & Property & Event Type and Details Injuries Crop Dmg LAMB COUNTY --- 1.0 NE AMHERST [34.03, -102.41] 0 Thunderstorm Wind (MG 52 kt) 07/08/22 16:44 CST 07/08/22 16:44 CST 0 Source: Mesonet A Texas Tech University West Texas mesonet site near Amherst measured a wind gust of 60 mph. HOCKLEY COUNTY --- 6.0 NNW ROPESVILLE [33.50, -102.19] 07/08/22 18:50 CST 0 Thunderstorm Wind (EG 61 kt) 07/08/22 18:50 CST 0 Source: Trained Spotter A meteorologist with the Texas Tech University West Texas mesonet estimated wind gusts of 70 mph along with minor tree damage with a wet microburst. Very hot temperatures on the afternoon of the eighth allowed for isolated thunderstorms to develop on the South Plains. Thunderstorms initially developed on an outflow boundary draped across the extreme southern Texas Panhandle that developed from early morning thunderstorms in the Texas Panhandle. A relatively dry sub-cloud layer enhanced the downburst potential of these storms. A few of these storms were able to produce severe wind gusts. CASTRO COUNTY --- 2.0 NE DIMMITT [34.57, -102.30], 1.0 ESE DIMMITT [34.54, -102.30] 07/12/22 20:05 CST 0 Thunderstorm Wind (MG 56 kt) 07/12/22 20:05 CST 0 Source: Mesonet A Texas Tech University West Texas mesonet site near Dimmitt measured a wind gust of 64 mph. Additionally, an NWS cooperative weather observer reported that a portable toilet was blown over. Thunderstorms formed on the higher terrain of eastern New Mexico on the afternoon of the 12th. A few of these storms moved into the extreme southwestern Texas Panhandle during the evening hours where instability was sufficient to sustain convective development. These storms were able to produce a severe wind gust near Dimmitt (Castro County). HALE COUNTY --- 5.0 ENE ABERNATHY [33.86, -101.77] 07/21/22 14:36 CST 0 Thunderstorm Wind (MG 52 kt) 07/21/22 14:37 CST 0 Source: Mesonet A Texas Tech University West Texas mesonet site near Abernathy measured severe wind gusts of 60 mph from 1436 CST through 1437 CST. (TX-Z035) LUBBOCK 07/21/22 15:09 CST 0 Strong Wind (MAX 49 kt) 07/21/22 15:09 CST 0 Several outflow boundary existed across the region on the afternoon of the 21st which initiated isolated thunderstorm development. Strong instability and DCAPE allowed one storm to produce a severe wind gust near Abernathy (Hale County). This storm went on to produce a 57 mph wind gust at Lubbock Preston Smith International Airport (Lubbock County). BRISCOE COUNTY --- 6.4 ESE SILVERTON [34.45, -101.19] 07/29/22 16:42 CST 0 Thunderstorm Wind (MG 57 kt) 07/29/22 16:42 CST 0 Source: Mesonet A Texas Tech University West Texas mesonet site near Silverton measured a severe wind gust of 66 mph. A weak cold front settled into the southern Texas Panhandle during the afternoon of the 29th which initiated isolated thunderstorm development. Sufficient instability combined with a dry and well mixed boundary layer lead to an evaporatively enhanced downdraft near

Silverton (Briscoe County) generating a severe wind gust.