Storm Data and Unusual Weather Phenomena - April 2022

	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details	
EXAS, South Panhandle					
	RO, (TX-Z023) SWISHER, (TX-Z024) BR	RISCOE. (TX-Z025)	HALL. (TX-Z026) (CHILDRESS. (TX-Z027) BAILEY.	
, , , ,	(-Z030) FLOYD, (TX-Z031) MOTLEY, (T				
TX-Z035) LUBBOCK, (TX-Z036) CROS	SBY, (TX-Z037) DICKENS, (TX-Z038) K	ING, (TX-Z039) YO	AKUM, (TX-Z040)	TERRY, (TX-Z041) LYNN, (TX-Z042)	
GARZA, (TX-Z043) KENT, (TX-Z044) S				-	
	04/01/22 00:00 CST		0	Drought	
	04/30/22 22:59 CST		0		
The month of April continued to see v	very little rainfall throughout the South	h Plains, Rolling P	lains, and extreme	e southern Texas	
anhandle region. This resulted in ev	ery county within the Lubbock County	y Warning Area (C	WA) was either at	extreme (D3) drought or	
exceptional (D4) drought conditions.					
•	vy rainfall in Castro County but also ve eated widespread blowing dust throug		-	-	
many of these wildfires. Observed fue	ntire region. However, a strong initial a els continued to be extremely to critica 3th near Tahoka in Lynn County which	ally dry with ERC	values consistentl		
nany of these wildfires. Observed fue significant wildfire occurred on the 13	els continued to be extremely to critica 8th near Tahoka in Lynn County which	ally dry with ERC	values consistentl		
many of these wildfires. Observed fue	els continued to be extremely to critica 8th near Tahoka in Lynn County which	ally dry with ERC	values consistentl		
nany of these wildfires. Observed fue significant wildfire occurred on the 13	els continued to be extremely to critica 3th near Tahoka in Lynn County which ER, (TX-Z029) HALE	ally dry with ERC	values consistentl ately 1477 acres.	y near record values. One	
nany of these wildfires. Observed fue significant wildfire occurred on the 13 TX-Z022) CASTRO, (TX-Z023) SWISH	els continued to be extremely to critica 3th near Tahoka in Lynn County which ER, (TX-Z029) HALE 04/01/22 15:22 CST 04/01/22 17:10 CST	ally dry with ERC	values consistenti ately 1477 acres.	y near record values. One	
nany of these wildfires. Observed fue significant wildfire occurred on the 13	Els continued to be extremely to critica Bith near Tahoka in Lynn County which ER, (TX-Z029) HALE 04/01/22 15:22 CST 04/01/22 17:10 CST E [33.56, -100.49]	ally dry with ERC	values consistenti ately 1477 acres.	y near record values. One High Wind (MAX 56 kt)	
nany of these wildfires. Observed fue significant wildfire occurred on the 13 TX-Z022) CASTRO, (TX-Z023) SWISH	els continued to be extremely to critica 3th near Tahoka in Lynn County which ER, (TX-Z029) HALE 04/01/22 15:22 CST 04/01/22 17:10 CST	ally dry with ERC	values consistenti ately 1477 acres. 0 0	y near record values. One	

enough to see significant measurable rainfall on the afternoon and evening. A diffuse dryline developed during the afternoon and moved east into the Rolling Plains. By late afternoon, a cold front was moving into the area from the northwest. Lift from the short wave along with sufficient mid level moisture was enough to produce virga showers on the caprock. Strong winds behind the cold front combined with the virga showers to produce isolated wind gusts in the extreme southern Texas Panhandle and central South Plains. Additionally, lift from this short wave was able to act on elevated instability over the Rolling Plains creating isolated thunderstorm activity. One of these thunderstorms produced severe wind gusts near Guthrie (King County).

High wind reports below are from the Texas Tech University West Texas mesonet:

64 mph at Tulia (Swisher County), 62 mph at Vigo Park (Swisher County), 60 mph at Hart (Castro County), and 58 mph at Abernathy (Hale County).

(TX-Z025) HALL, (TX-Z026) CHILDRESS, (TX-Z038) KING

04/05/22 20:46 CST 04/05/22 23:19 CST

0

0

High Wind (MAX 54 kt)

A strong upper level cyclone over the Northern and Central Plains sent a cold front through the area on the evening of the fifth. The combination of the strong cold front and deepening upper level cyclone contributed to isolated high winds across the southeastern Texas Panhandle and Rolling Plains.

Maximum wind gusts from the Texas Tech University West Texas mesonet are listed below:

62 mph at Memphis (Hall County), 61 mph at Lesley (Hall County),

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61 mph at Childress Municipal Airport ASO 59 mph at Childress (Childress County), and 58 mph at Guthrie (King County).	•			
(TX-Z033) COCHRAN, (TX-Z034) HOCKLEY,	(TX-Z035) LUBBOCK			
	04/12/22 11:23 CST		0	High Wind (MAX 53 kt)
	04/12/22 16:30 CST		0	

A powerful storm system ejecting from northern Rockies into the northern High Plains brought impactful weather to the area on the 12th. The northern track and strong westerly flow on the south side of the system meant that West Texas received another healthy dose of wind. Wind gusts from 50 to 60 mph were common across much of the South Plains into the Texas Panhandle. Copious amounts of dust were lifted and carried across the region during the afternoon and evening hours, as it evident in the above satellite imagery. Lubbock, Childress and Plainview airports reported visibilities of three miles or less for an extended period of time as the large dust plume engulfed the region. Warm and dry winds also supported several small wildfires locally.

High wind reports from Texas Tech University West Texas mesonets are listed below along with the Automated Surface Observation System (ASOS) at Lubbock Preston Smith International Airport:

61 mph at Anton (Hockley County), 60 mph at Lubbock ASOS (Lubbock County), and 58 mph at Morton (Cochran County).

(TX-Z041) LYNN		
04/13/22 14:00 CST	0	Wildfire
04/13/22 20:30 CST	0	

A powerful upper level storm system which brought isolated high wind gusts to the area on the 12th departed the area on the 13th but still was able to bring strong but non-severe winds on the 13th. These winds came in the wake of a cold front which moved through early in the morning of the 13th. Although temperatures were close to seasonal averages on the 13th behind this cold front, extremely dry air advected into the region with widespread dew points below 0 degrees Fahrenheit. This led to relative humidity values at or below three percent along with gusty northwesterly winds. A wildfire in Lynn County, named the Side Oats Fire, started several miles to the southwest of Tahoka (Lynn County). The wildfire burned a total estimated 1477 acres before being fully contained by the Texas Forest Service on the evening of the 13th.

(TX-Z041) LYNN, (TX-Z042) GARZA			
	04/22/22 15:22 CST	0	High Wind (MAX 63 kt)
	04/22/22 23:22 CST	0	
CASTRO COUNTY HART [34.38, -'	102.12], 3.0 S NAZARETH [34.51, -102.10]		
CASTRO COUNTY HART [34.38, -'	102.12], 3.0 S NAZARETH [34.51, -102.10] 04/22/22 18:01 CST	0	Hail (2.50 in)

Numerous reports were received of quarter to golf ball size hail in Hart (Castro County) as a supercell thunderstorm quickly tracked to the north-northeast across Castro County. The supercell thunderstorm continued to intensify as it moved across the County producing hail as large as tennis ball size south of Nazareth (Castro County) along Farm to Market Road 168. No reports of damage were received.

SWISHER COUNTY 5.4 ENE HAPPY [34.75, -101.76]						
04/22/22 18:56 CST	0	Hail (2.00 in)				
04/22/22 18:56 CST	0	Source: Storm Chaser				

A storm chaser reported hail up to two inch diameter size along the Swisher /Armstrong County line along Farm to Market Road 1075 approximately five miles east of Happy (Swisher County). No reports of damage were received.

A strong upper level short wave trough and polar jet stream over the southwestern United States moved across the Rockies on the afternoon of the 22nd which brought widespread severe weather to the Central High Plains down into the Southern High Plains. As a result, strong surface cyclogenesis occurred in lee of the Rockies which brought robust moist southerly winds into the South Plains of West Texas. These southerly winds produced severe wind gusts at times also lofting dust across a widespread area. The increase in low level atmospheric moisture and steep mid level lapse rates allowed instability values to rise to around 3000 J/kg by late afternoon. However, a stout elevated mixed layer existed over the area from persistent southwesterly winds overhead. This cap was able to suppress most convection across the region however, one supercell thunderstorm was able to develop. This storm tracked northeastward across Castro County dropping hail up to tennis ball size.

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 73 mph at Lubbock Preston Smith International 71 mph at Graham (Garza County), 62 mph at Olton (Lamb County), 61 mph at Tulia (Swisher County), 60 mph at Friona (Parmer County), 59 mph at Dimmitt (Castro County), 59 mph at O'Donnell (Lynn County), 58 mph at Silverton (Briscoe County), and 58 mph at Northfield (Motley County). 	ll Airport (ASOS, Lubbock Cou	nty),		
CROSBY COUNTY 1.0 SE RALLS [33.67, -10	1.37]			
	04/29/22 14:29 CST		0	Dust Devil
	04/29/22 14:29 CST		0	Source: Mesonet

On the afternoon of the 29th, a dust devil directly impacted the Texas Tech University West Texas mesonet near Ralls (Crosby County). A wind gust to 61 mph was reported by the mesonet at the time of occurrence.