Storm Data and Unusual Weather Phenomena - December 2022

	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
OKLAHOMA, Panhandle				
(OK-Z001) CIMARRON, (OK-Z002) TEXAS, (O	K-Z003) BEAVER			
	12/01/22 00:00 CST		0	Drought
	12/31/22 23:59 CST		0	
Much of the Oklahoma and Texas Panhandle range of drought conditions from Exceptiona short to very short on soil moisture. Drought year compared to previous years. More than the drought. This was one of the worst produ portions of the OK Panhandle into the far not for the entire year.	Il Drought (D4) to Moderate Dr conditions affected pastures 70% of the cotton production action seasons since the 1950	rought (D1) across in ranchers to sel across the Texas 's. One of the hard	the combined Par upwards of 35% r Panhandle and So est hit areas was o	nhandles. Soils remained more cattle during the uth Plains had failed due to central to eastern
(OK-Z001) CIMARRON, (OK-Z002) TEXAS				
	12/02/22 10:35 CST		0	High Wind (MAX 60 kt)
	12/02/22 14:40 CST		0	
	12/03/22 16:48 CST		0	
		nidity, and receptiv		d to critical fire weather
conditions across the Oklahoma Panhandle.	strong winds, low relative hum	nidity, and receptiv		d to critical fire weather
conditions across the Oklahoma Panhandle.	strong winds, low relative hum	nidity, and receptiv		d to critical fire weather Hail (2.50 in)
conditions across the Oklahoma Panhandle.	strong winds, low relative hum , -100.73]	nidity, and receptiv	re fuels contribute	
conditions across the Oklahoma Panhandle. BEAVER COUNTY 2.9 WSW BALKO [36.62	, -100.73] 12/12/22 21:16 CST 12/12/22 21:16 CST		o 0 0	Hail (2.50 in)
conditions across the Oklahoma Panhandle. BEAVER COUNTY 2.9 WSW BALKO [36.62 Estimated ping pong ball to tennis ball size hail	, -100.73] 12/12/22 21:16 CST 12/12/22 21:16 CST while viewing through a windo	w while sheltered	o 0 0	Hail (2.50 in)
conditions across the Oklahoma Panhandle. BEAVER COUNTY 2.9 WSW BALKO [36.62 Estimated ping pong ball to tennis ball size hail	strong winds, low relative hum , -100.73] 12/12/22 21:16 CST 12/12/22 21:16 CST while viewing through a windo 100.66], 2.1 E BALKO [36.63, -1 12/12/22 21:21 CST	w while sheltered	o 0 0	Hail (2.50 in) Source: Trained Spotter Tornado (EFU, L: 1.22 mi , W: 50 yd)
Prolonged drought conditions coupled with s conditions across the Oklahoma Panhandle. BEAVER COUNTY 2.9 WSW BALKO [36.62 Estimated ping pong ball to tennis ball size hail BEAVER COUNTY 1.3 SE BALKO [36.62, -'	100.73] 12/12/22 21:16 CST 12/12/22 21:16 CST while viewing through a windo	w while sheltered	e fuels contribute	Hail (2.50 in) Source: Trained Spotter
conditions across the Oklahoma Panhandle. BEAVER COUNTY 2.9 WSW BALKO [36.62 Estimated ping pong ball to tennis ball size hail BEAVER COUNTY 1.3 SE BALKO [36.62, -' Tornado track was estimated based on photos accounts. The tornado was moving northeast a for just under 2 minutes. No damage was found	strong winds, low relative hum , -100.73] 12/12/22 21:16 CST 12/12/22 21:16 CST while viewing through a windor 100.66], 2.1 E BALKO [36.63, -1 12/12/22 21:21 CST 12/12/22 21:23 CST and eye witness and eye the s along the path as of damage	w while sheltered	e fuels contribute	Hail (2.50 in) Source: Trained Spotter Tornado (EFU, L: 1.22 mi , W: 50 yd)
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conditions across the Oklahoma Panhandle. BEAVER COUNTY 2.9 WSW BALKO [36.62 Estimated ping pong ball to tennis ball size hail BEAVER COUNTY 1.3 SE BALKO [36.62, -/ Tornado track was estimated based on photos accounts. The tornado was moving northeast a for just under 2 minutes. No damage was found tornado didn't encounter any damage indicator it remained in open grasslands. Given the lack indicators, an unknown rating has been assign BEAVER COUNTY 5.5 S BEAVER [36.74, -1	strong winds, low relative hum , -100.73] 12/12/22 21:16 CST 12/12/22 21:16 CST while viewing through a windo 100.66], 2.1 E BALKO [36.63, -1 12/12/22 21:21 CST 12/12/22 21:23 CST and eye witness ind was on the ground d, however the s along the path as of damage ed. 00.52] 12/12/22 21:31 CST 12/12/22 21:31 CST	w while sheltered	re fuels contribute	Hail (2.50 in) Source: Trained Spotter Tornado (EFU, L: 1.22 mi , W: 50 yd) Source: NWS Storm Survey Hail (1.50 in)
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his tornado was documented by mu nd video as it crossed US270 south ornado was on the ground for approx amage reported to the power lines the le highway and no other damage inco- emained in open grassland areas, the he track and width were estimated be adar signatures and photographs.	of Beaver, Oklahoma. The ximately 1 minute. With no hat the tornado crossed along dicators along the path which he tornado was rated an EF0.				
eated an environment capable of a e combined northeast Texas and a enerated at least 2 brief tornadoes amage, but were documented with	vind shear, and modest instability supporting supercells during the evenin eastern Oklahoma Panhandles. One sup	ercell	across Beaver Co	punty as well.	
OK-Z002) TEXAS					
	12/22/22 00:45 CST 12/22/22 00:45 CST		0 0	High Wind (MAX 51 kt)	
lone.					
EXAS, North Panhandle					
TX-Z001) DALLAM, (TX-Z002) SHEF 100RE, (TX-Z008) HUTCHINSON, (RMAN, (TX-Z003) HANSFORD, (TX-Z004) TX-Z009) ROBERTS, (TX-Z010) HEMPHIL MITH, (TX-Z017) RANDALL COUNTY, (TX 12/01/22 00:00 CST	L, (TX-Z011) OLD	IAM, (TX-Z012) PO WORTH	DTTER, (TX-Z013) CARSON,	
TX-Z001) DALLAM, (TX-Z002) SHEF IOORE, (TX-Z008) HUTCHINSON, (TX-Z014) GRAY, (TX-Z016) DEAF SI Iuch of the Oklahoma and Texas Pa	TX-Z009) ROBERTS, (TX-Z010) HEMPHIL MITH, (TX-Z017) RANDALL COUNTY, (TX 12/01/22 00:00 CST 12/31/22 23:59 CST anhandles have remained dry throughou	L, (TX-Z011) OLDI -Z020) COLLINGS It the year. During	HAM, (TX-Z012) PO WORTH 0 0 the month Decen	DTTER, (TX-Z013) CARSON, Drought nber there were a wide	
X-Z001) DALLAM, (TX-Z002) SHEF OORE, (TX-Z008) HUTCHINSON, (X-Z014) GRAY, (TX-Z016) DEAF SI unch of the Oklahoma and Texas P inge of drought conditions from E nort to very short on soil moisture ear compared to previous years. M he drought. This was one of the wo portions of the OK Panhandle into t or the entire year.	TX-Z009) ROBERTS, (TX-Z010) HEMPHIL MITH, (TX-Z017) RANDALL COUNTY, (TX 12/01/22 00:00 CST 12/31/22 23:59 CST anhandles have remained dry throughou xceptional Drought (D4) to Moderate Dro b. Drought conditions affected pastures i fore than 70% of the cotton production a borst production seasons since the 1950's the far north central TX Panhandle. Some RMAN, (TX-Z006) HARTLEY, (TX-Z007) M	L, (TX-Z011) OLD CZ020) COLLINGS ought (D1) across n ranchers to sell across the Texas P conso the Texas P conso the the harde	HAM, (TX-Z012) P(WORTH 0 0 the month Decent the combined Part upwards of 35% n anhandle and Sou est hit areas was c have received lest	DTTER, (TX-Z013) CARSON, Drought mber there were a wide mandles. Soils remained more cattle during the uth Plains had failed due to central to eastern ss than 10 inches of rainfall	
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MOORE, (TX-Z008) HUTCHINSON, (TX-Z014) GRAY, (TX-Z016) DEAF SI Auge of drought conditions from E: hort to very short on soil moisture ear compared to previous years. M he drought. This was one of the wo isortions of the OK Panhandle into t or the entire year. TX-Z001) DALLAM, (TX-Z002) SHEF An upper level disturbance moved a surface and produced wind gusts u reas to the southeast would gust u ustained winds over 35 mph for so	TX-Z009) ROBERTS, (TX-Z010) HEMPHIL MITH, (TX-Z017) RANDALL COUNTY, (TX 12/01/22 00:00 CST 12/31/22 23:59 CST anhandles have remained dry throughou xceptional Drought (D4) to Moderate Dro bore than 70% of the cotton production a prost production seasons since the 1950's the far north central TX Panhandle. Some RMAN, (TX-Z006) HARTLEY, (TX-Z007) M 12/01/22 10:15 CST 12/02/22 16:32 CST across the Rockies and had a well stack pwards of 65 to 72 mph in the far northy pwards of 60 mph. Overall several areas one period of time. DRE, (TX-Z013) CARSON, (TX-Z014) GRA 12/22/22 00:06 CST	L, (TX-Z011) OLDI (-Z020) COLLINGS (-Z020) COLLINGS (HAM, (TX-Z012) PC WORTH 0 0 the month Decent the combined Pan upwards of 35% n anhandle and Sou st hit areas was of have received less HUTCHINSON, (T) 0 0 Strong winds alo Oklahoma and Te d western Panhan	DTTER, (TX-Z013) CARSON, Drought nber there were a wide nhandles. Soils remained nore cattle during the uth Plains had failed due to central to eastern ss than 10 inches of rainfall K-Z011) OLDHAM High Wind (MAX 63 kt) ft mixed down to the xas Panhandles. Other	
IX-Z001) DALLAM, (TX-Z002) SHEF IOORE, (TX-Z008) HUTCHINSON, (IX-Z014) GRAY, (TX-Z016) DEAF SI luch of the Oklahoma and Texas Pa ange of drought conditions from Ei hort to very short on soil moisture ear compared to previous years. M he drought. This was one of the wo ortions of the OK Panhandle into t or the entire year. IX-Z001) DALLAM, (TX-Z002) SHEF un upper level disturbance moved a urface and produced wind gusts u reas to the southeast would gust u ustained winds over 35 mph for so	TX-Z009) ROBERTS, (TX-Z010) HEMPHIL MITH, (TX-Z017) RANDALL COUNTY, (TX 12/01/22 00:00 CST 12/31/22 23:59 CST anhandles have remained dry throughou xceptional Drought (D4) to Moderate Dro bore than 70% of the cotton production a orst production seasons since the 1950's the far north central TX Panhandle. Some RMAN, (TX-Z006) HARTLEY, (TX-Z007) M 12/01/22 10:15 CST 12/02/22 16:32 CST across the Rockies and had a well stack pwards of 65 to 72 mph in the far northy upwards of 60 mph. Overall several areas ome period of time. DRE, (TX-Z013) CARSON, (TX-Z014) GRA	L, (TX-Z011) OLDI (-Z020) COLLINGS (-Z020) COLLINGS (HAM, (TX-Z012) PC WORTH 0 0 the month Decent the combined Par upwards of 35% n anhandle and Sou st hit areas was c have received les HUTCHINSON, (T) 0 0 Strong winds alo Oklahoma and Te d western Panhan	DTTER, (TX-Z013) CARSON, Drought her there were a wide handles. Soils remained hore cattle during the uth Plains had failed due to central to eastern ss than 10 inches of rainfall K-Z011) OLDHAM High Wind (MAX 63 kt) ft mixed down to the xas Panhandles. Other dles were able to have	
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		Injuries	Crop Dmg	
				- 5 0- 0

winds managed to stay up all night and very warm overnight lows resulted across most areas in the mid to upper 50s. Some areas to the north and east that did not benefit from as much wind overnight ended up in the lower to mid 40s. As a strong 850 and 700 jet moved over the Panhandles it was pretty easy to mix the 850 winds down to the surface overnight with the warm mixed air in place. Amarillo was the first area to gust 58 mph around 2 AM and others followed gradually through the day. There was a little lull in the late morning, but winds picked up again in the afternoon and several areas would gust over 60 mph, with the highest area being Lake McClellan 2NW. This West Texas Mesonet site managed to gust to 69 mph. Other areas to note that had a very high wind gust were Fritch, Vega, Texline, Borger, Pampa, Panhandle, and Pantex. This was mostly focused along the Canadian River Valley. There were several areas that almost gusted to 58 but fell short a few mph. A few of those sites would be: Hereford, Miami, Dumas, & Adrian. This lined up very well with where the 850 and 700 mb jet streak moved over. If ample cloud cover had not stuck around and allowing temperatures to be warmer, these wind gusts could have potentially been higher.

(TX-Z008) HUTCHINSON			
	12/28/22 19:56 CST	0	Wildfire
	12/28/22 21:59 CST	0	

Prolonged drought conditions coupled with strong winds, low relative humidity, and receptive fuels contributed to critical fire weather conditions across the Texas Panhandle.