

Storm Data and Unusual Weather Phenomena - April 2017

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

(OK-Z001) CIMARRON

	04/04/17 15:35 CST	0		Winter Storm
	04/04/17 16:35 CST	0		

As a surface low and an upper level of low pressure moved east of our region throughout the day on the 4th, wrap around moisture from the main upper level low pressure system was impacting the northwestern areas. With the steep 700 hPa isodrosotherm gradients along with the strong CAA, this was the set up of moderate snow across the NW< especially since temperatures were still above freezing for the remainder of the TX/OK Panhandles, minus the far northwestern areas where cooling of the column allowed accumulating snowfall to occur as the morning progressed while the remainder of the central and eastern Panhandles had a cold rain.

(OK-Z001) CIMARRON, (OK-Z002) TEXAS

	04/29/17 06:00 CST	0		Winter Storm
	04/30/17 18:00 CST	0		

(OK-Z001) CIMARRON, (OK-Z002) TEXAS

	04/30/17 09:25 CST	0		Blizzard
	04/30/17 19:00 CST	0		

An upper level low over eastern New Mexico within a deep neutral tilted trough with a 80-110 kt. 250 hPa jet streak providing upper level divergence over our region gave us good favorable upper level dynamics. In-conjunction with strong 850-700 hPa cold air advection as the 700 hPa and surface based low pressure systems moved into north central OK/south central KS by early AM on the 30th, this has helped to set up good frontogenetic snow at times across the far western Panhandles where a sharp low level temp gradient was established. This provided heavy snowfall rates at times, especially when the surface low began to occlude over KS the morning on the 30th. After warning criteria snow fell in the northwestern Panhandles and at the aforementioned time, winds began to increase as isobar gradient steepened further providing Blizzard conditions for several hours. Tri County Electric COOP reported the outage count peaked somewhere close to 18,000 meters off during mid-morning on Sunday the 30th with also about 500 downed powerlines across the coverage area.

TEXAS, North Panhandle

(TX-Z001) DALLAM

	04/04/17 15:35 CST	0		Winter Storm
	04/04/17 17:35 CST	0		

As a surface low and an upper level of low pressure moved east of our region throughout the day on the 4th, wrap around moisture from the main upper level low pressure system was impacting the northwestern areas. With the steep 700 hPa isodrosotherm gradients along with the strong CAA, this was the set up of moderate snow across the NW< especially since temperatures were still above freezing for the remainder of the TX/OK Panhandles, minus the far northwestern areas where cooling of the column allowed accumulating snowfall to occur as the morning progressed while the remainder of the central and eastern Panhandles had a cold rain.

GRAY COUNTY --- 0.9 NW LEFORS [35.44, -100.83]

	04/16/17 16:24 CST	0		Hail (0.75 in)
	04/16/17 16:24 CST	0		Source: Broadcast Media

GRAY COUNTY --- 1.3 ENE LEFORS [35.44, -100.80]

	04/16/17 16:32 CST	0		Hail (0.88 in)
	04/16/17 16:32 CST	0		Source: Public

GRAY COUNTY --- 1.8 WNW LEFORS [35.44, -100.85]

	04/16/17 16:36 CST	0		Hail (0.88 in)
	04/16/17 16:36 CST	0		Source: Trained Spotter

GRAY COUNTY --- 1.7 E LEFORS [35.43, -100.79]

	04/16/17 16:45 CST	0		Hail (1.00 in)
	04/16/17 16:45 CST	0		Source: Trained Spotter

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
On Highway 273.				
GRAY COUNTY --- 6.5 WSW LEFORS [35.40, -100.93]				
	04/16/17 16:50 CST	0		Hail (1.25 in)
	04/16/17 16:50 CST	0		Source: Storm Chaser
GRAY COUNTY --- 1.1 E LEFORS [35.43, -100.80]				
	04/16/17 16:52 CST	0		Hail (1.75 in)
	04/16/17 16:52 CST	0		Source: Trained Spotter
GRAY COUNTY --- 4.8 SW LEFORS [35.38, -100.88]				
	04/16/17 16:56 CST	0		Hail (1.00 in)
	04/16/17 16:56 CST	0		Source: Trained Spotter
GRAY COUNTY --- 7.6 WSW LEFORS [35.40, -100.95]				
	04/16/17 17:01 CST	0		Hail (1.00 in)
	04/16/17 17:01 CST	0		Source: Storm Chaser
GRAY COUNTY --- 4.2 S PAMPA [35.47, -100.96]				
	04/16/17 17:09 CST	0		Hail (1.75 in)
	04/16/17 17:09 CST	0		Source: Public
GRAY COUNTY --- 8.3 WSW LEFORS [35.39, -100.96]				
	04/16/17 17:10 CST	0		Hail (2.00 in)
	04/16/17 17:10 CST	0		Source: Storm Chaser
GRAY COUNTY --- 13.6 SSE KINGS MILL [35.29, -101.01]				
	04/16/17 18:03 CST	0		Hail (1.75 in)
	04/16/17 18:03 CST	0		Source: Broadcast Media
GRAY COUNTY --- 13.1 SW LEFORS [35.30, -100.99]				
	04/16/17 18:04 CST	0		Hail (2.00 in)
	04/16/17 18:04 CST	0		Source: Trained Spotter
GRAY COUNTY --- 15.3 S KINGS MILL [35.26, -101.04]				
	04/16/17 18:04 CST	0		Hail (2.00 in)
	04/16/17 18:04 CST	0		Source: Trained Spotter
CARSON COUNTY --- 7.5 NNW GROOM [35.30, -101.15]				
	04/16/17 18:12 CST	0		Hail (1.75 in)
	04/16/17 18:12 CST	0		Source: Storm Chaser
CARSON COUNTY --- 6.6 NW GROOM [35.27, -101.18]				
	04/16/17 18:32 CST	0		Hail (1.75 in)
	04/16/17 18:32 CST	0		Source: Storm Chaser
CARSON COUNTY --- 5.6 N GROOM [35.28, -101.11]				
	04/16/17 18:35 CST	0		Hail (1.50 in)
	04/16/17 18:35 CST	0		Source: Storm Chaser
CARSON COUNTY --- 4.8 NW GROOM [35.25, -101.16]				
	04/16/17 18:52 CST	0		Hail (2.00 in)
	04/16/17 18:52 CST	0		Source: Storm Chaser
CARSON COUNTY --- 4.8 NW GROOM [35.25, -101.16]				
	04/16/17 18:56 CST	0		Hail (2.00 in)
	04/16/17 18:56 CST	0		Source: Public

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CARSON COUNTY --- 4.0 NW GROOM [35.24, -101.15]				
	04/16/17 18:59 CST	0		Hail (2.50 in)
	04/16/17 18:59 CST	0		Source: Storm Chaser
CARSON COUNTY --- 7.3 E CONWAY [35.20, -101.25]				
	04/16/17 19:06 CST	0		Hail (2.00 in)
	04/16/17 19:06 CST	0		Source: Storm Chaser
CARSON COUNTY --- 8.6 ENE CONWAY [35.25, -101.24]				
	04/16/17 19:06 CST	0		Hail (2.75 in)
	04/16/17 19:06 CST	0		Source: Storm Chaser
CARSON COUNTY --- 1.3 WNW GROOM [35.21, -101.12]				
	04/16/17 19:07 CST	0		Hail (1.00 in)
	04/16/17 19:07 CST	0		Source: Storm Chaser
CARSON COUNTY --- 4.5 W GROOM [35.20, -101.18]				
	04/16/17 19:07 CST	0		Hail (2.00 in)
	04/16/17 19:07 CST	0		Source: Storm Chaser
CARSON COUNTY --- 7.3 E CONWAY [35.20, -101.25]				
	04/16/17 19:14 CST	0		Hail (3.00 in)
	04/16/17 19:14 CST	0		Source: Storm Chaser
CARSON COUNTY --- 0.6 W GROOM [35.20, -101.11]				
	04/16/17 19:15 CST	0		Hail (1.00 in)
	04/16/17 19:15 CST	0		Source: Storm Chaser
ARMSTRONG COUNTY --- 4.2 N CLAUDE [35.18, -101.36]				
	04/16/17 19:28 CST	0		Hail (1.00 in)
	04/16/17 19:28 CST	0		Source: Storm Chaser
ARMSTRONG COUNTY --- 0.6 E GOODNIGHT [35.03, -101.19]				
	04/16/17 20:14 CST	0		Hail (0.75 in)
	04/16/17 20:14 CST	0		Source: Storm Chaser
ARMSTRONG COUNTY --- 4.6 W CLAUDE [35.11, -101.45]				
	04/16/17 20:20 CST	0		Hail (2.50 in)
	04/16/17 20:20 CST	0		Source: Storm Chaser
<p>A dryline out ahead of a cold front moving east across the central TX/OK Panhandle during the day on the 16th helped set up the environment for storm development. Eventually, it turned out to be a meso-boundary working west. In an environment where MUCAPE was 2000-3000 J/Kg with little to no CIN and 30-40 kts of effective shear, a supercell formed along the westward moving outflow boundary and produced large hail at times around baseball size. The one supercell then drifted south of Amarillo along another outflow boundary and dissipated by later in the evening.</p>				
HARTLEY COUNTY --- 0.7 S DALHART [36.06, -102.52]				
	04/21/17 02:00 CST	0		Hail (1.00 in)
	04/21/17 02:00 CST	0		Source: Law Enforcement
<p>Sheriffs office in Dalhart reported hail up to the size of quarters with the first wave of the storm.</p>				
MOORE COUNTY --- 0.7 N DUMAS [35.86, -101.97]				
	04/21/17 03:23 CST	0		Hail (1.00 in)
	04/21/17 03:23 CST	0		Source: Law Enforcement
<p>Late report from Moore county Sheriffs office of quarter size hail in western and downtown Dumas.</p>				

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HUTCHINSON COUNTY --- 0.6 E STINNETT [35.82, -101.44]				
	04/21/17 03:35 CST		0	Hail (1.50 in)
	04/21/17 03:35 CST		0	Source: Public
Public called and reported slightly larger than ping pong ball sized hail in Stinett.				
OCHILTREE COUNTY --- 0.7 S PERRYTON [36.39, -100.80]				
	04/21/17 03:47 CST		0	Hail (1.50 in)
	04/21/17 03:47 CST		0	Source: Public
Report via Facebook.				
OCHILTREE COUNTY --- 0.9 SW PERRYTON [36.39, -100.81]				
	04/21/17 03:47 CST		0	Hail (1.00 in)
	04/21/17 03:47 CST		0	Source: Trained Spotter
Late report...time estimated from radar. Hail accumulated several inches deep with little melting so far.				
OCHILTREE COUNTY --- 2.8 N PERRYTON [36.44, -100.80]				
	04/21/17 03:52 CST		0	Hail (1.00 in)
	04/21/17 03:52 CST		0	Source: Public
Late report...time estimated by radar.				
LIPSCOMB COUNTY --- 1.3 WNW FOLLETT [36.44, -100.15]				
	04/21/17 03:56 CST		0	Hail (1.00 in)
	04/21/17 03:56 CST		0	Source: Public
Late report...time estimated by radar.				
HUTCHINSON COUNTY --- 0.7 N FRITCH [35.64, -101.60]				
	04/21/17 04:15 CST		0	Hail (1.25 in)
	04/21/17 04:15 CST		0	Source: Public
Report via Twitter.				
OCHILTREE COUNTY --- 13.9 SE PERRYTON MUNI ARPT [36.27, -100.56]				
	04/21/17 04:25 CST		0	Hail (1.00 in)
	04/21/17 04:25 CST		0	Source: Public
Late report. Multiple waves of hail passed over Wolf Creek park with heavy rainfall reported.				
HUTCHINSON COUNTY --- 0.7 N FRITCH [35.64, -101.60]				
	04/21/17 04:28 CST		0	Hail (1.00 in)
	04/21/17 04:28 CST		0	Source: Trained Spotter
<p>The combination of orographic lift from east to east-southeast surface flow, and a shortwave embedded in the longwave trough axis over eastern New Mexico helped early AM convection to get established. With 1500-2000 J/Kg, 850-700 hPa moisture axis ahead of the upper level trough along with a frontal system displaced just to the south of the TX Panhandle, there was enough of a synoptic setup to have storms occur during the early morning hours with predominately severe criteria hail reported with the storms that moved east across the northern TX Panhandle.</p>				
(TX-Z001) DALLAM, (TX-Z002) SHERMAN, (TX-Z006) HARTLEY				
	04/29/17 06:00 CST		0	Winter Storm
	04/30/17 19:00 CST		0	
(TX-Z001) DALLAM, (TX-Z002) SHERMAN, (TX-Z006) HARTLEY				
	04/30/17 09:25 CST		0	Blizzard
	04/30/17 19:00 CST		0	

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An upper level low over eastern New Mexico within a deep neutral tilted trough with a 80-110 kt. 250 hPa jet streak providing upper level divergence over our region gave us good favorable upper level dynamics. In-conjunction with strong 850-700 hPa cold air advection as the 700 hPa and surface based low pressure systems moved into north central OK/south central KS by early AM on the 30th, this has helped to set up good frontogenetic snow at times across the far western Panhandles where a sharp low level temp gradient was established. This provided heavy snowfall rates at times, especially when the surface low began to occlude over KS the morning on the 30th. After warning criteria snow fell in the northwestern Panhandles and at the aforementioned time, winds began to increase as isobar gradient steepened further providing Blizzard conditions for several hours. Tri County Electric COOP reported the outage count peaked somewhere close to 18,000 meters off during mid-morning on Sunday the 30th with also about 500 downed powerlines across the coverage area.