Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
OKLAHOMA, Panhandle				
(OK-Z001) CIMARRON, (OK-Z002) TEXAS, (OK-Z00	03) BEAVER			
	07/01/14 00:00 CST		0	Drought
	07/31/14 23:59 CST		0	
Inches of rain for the month. A few parts of the Pa Counties remained in Exceptional (D4) Drought co Drought and Extreme (D3) Drought conditions. Gu Soil moisture was rated from very short to adequa behind in areas that were too wet or too dry. Rang rangeland was greening up. Cattle continued to in were mostly in the 20 to 40 percent full range, with normal in much of the Oklahoma Panhandle. The Oklahoma Panhandle. No burn bans were in effect	or most of the Oklahoma Pan nhandle received greater tha onditions through July, while symon recorded 1.98 inches of the by the end of June. Crops leland and pasture continued approve, but herd sizes remain a few locations much better Palmer Drought Severity Inde t.	nancie, with mos n 5 inches of rain the rest of the Pa of precipitation fo were mostly ber to be rated mos hed limited due to or much worse.	an A small portions measu anhandle improved or the month (0.68 mefiting from the ra- tly poor to very po poprolonged droug Deeper soil moistu ing of Moderate Dr	aring at least 2 to 3 of Texas and Beaver d to a mix of Severe (D2) inches below normal). ins, but were running ior, but some ht. Upper soil zones ure was still below rought conditions for the
Reservoirs and stream flows across the Oklahoma	a Panhandle were at near or b	oelow normal lev	els through July.	
Economic losses due to the drought through July supplemental feed for cattle on drought-thinned ra	were predominately the resu angeland and pastures.	ilt of supplement	al watering in the o	driest areas and

(OK-Z001) CIMARRON			
	07/09/14 19:20 CST	0	High Wind (MAX 56 kt)
	07/09/14 19:21 CST	0	

Convection developed along a stalled front positioned across the central Oklahoma Panhandle. Marginal instability limited the severity of storms, but a dry sub-cloud proved sufficient to produce isolated dry downbursts as storms collapsed. One such dry downburst occurred at the Oklahoma mesonet site in Kenton (Cimarron County), and was measured at 65 mph. Convection ended shortly before midnight on the 10th as the front dissipated which brought an end to the potential for dry microburst.

TEXAS COUNTY 10.5 SW HOUGH [36.76, -101.70], 7.0 NNW GOODWELL [36.69, -101.70]				
07/14/14 14:57 CST	0	Hail (1.00 in)		
07/14/14 14:59 CST	0	Source: Emergency Manager		

A cluster of thunderstorms moved into Texas County during the early evening hours of the 14th. As storms passed west of the town of Guymon (Texas County), the County Emergency Manager reported quarter size hail (1.00 inch) 13 miles west-northwest of town (Texas County). The storms decreased in intensity after producing this hail and quickly moved into the northern Texas Panhandle.

The Oklahoma Panhandle saw a round of severe convection during the afternoon hours of the 14th. A cold front slowly moving southwestward into the Panhandle combined with a shortwave trough rounding the base of a closed low over the Great Lakes set the stage for convection to develop. The 6 PM CST upper air sounding out of Amarillo (Potter County) showed moderate CAPE of 2673 J/kg and weak deep layer shear in place across the Panhandle. Convection developed over western Kansas and southeastern Colorado and moved southward to enter the Panhandle around 1 PM CST (3 PM CST). The majority of the storms over the Oklahoma Panhandle remained sub-severe, but one storm over Texas County was able to produce quarter size hail prior to entering the Texas Panhandle.

TEXAS COUNTY 0.7 N OPTIMA [36.76, -101.35], 0.9 E OPTIMA [36.75, -101.33]		
07/21/14 17:19 CST	0	Hail (1.50 in)
07/21/14 17:20 CST	0	Source: Public

Scattered thunderstorms developed over Texas County during the evening hours of the 21st. As the storms moved over the town of Optima (Texas County), a member of the public reported ping pong ball size hail (1.50 inches). After producing this hail the storms moved southeastward across the county.

TEXAS COUNTY 6.2 N GUYMON [36.77, -101.48], 5.6 W OPTIMA [36.76, -101.45]			
07/21/14 18:02 CST	0	Hail (1.75 in)	
07/21/14 18:03 CST	0	Source: Public	

Scattered thunderstorms developed over Texas County during the evening hours of the 21st. As the storms moved over the town of Guymon (Texas County), a member of the public reported golf ball size hail (1.75 inches) 6 miles north of Guymon (Texas County). After producing this hail the storms moved southeastward across the county.

	Storm Data and Unusu	al Weather Pl	henomena -	July 2014
Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
The combination of a weak upper troug allowed convection to develop during t the evening hours over Texas County. storms transitioned to heavy rain produ	h, a surface trough over the centra he evening hours of the 21st. Scat This convection quickly became s uction and did not produce any fur	al Oklahoma Panhan tered convection dev trong to severe. Afte ther severe weather.	dle, and a margina veloped along the r producing isolat	ally unstable environment surface trough during ed severe hail the
TEXAS COUNTY 0.7 N OPTIMA [36.7	6, -101.35], 0.9 NNW OPTIMA [36.76	6, -101.36], 0.7 NW O	PTIMA [36.76, -10 ⁴	.36], 0.4 N OPTIMA [36.76,
-101.35]	07/21/14 18:10 CST		0	Flash Flood (due to Heavy Rain)
	07/21/14 20:00 CST		0	Source: Emergency Manager
Thunderstorms moved over the town of 0 the development of flash flooding on sev receded.	Dptima (Texas County) during the everal roads in town as reported by the	vening hours of the 2 [,] Emergency Manage	1st. These storms er. Once the storms	produced intense rainfall which led to moved east of town the flood waters
Weak steering flow combined with an u rates. This intense rainfall caused isola receded once convection moved east c	Instable and moist atmosphere to p Ited flash flooding over Texas Cour If the affected area.	produce thunderstor nty during the evenir	ms capable of pro ng hours of the 21	ducing intense rainfall st. Flood waters quickly
CIMARRON COUNTY 6.9 SE KENTO	N [36.83, -102.88]			
	07/29/14 23:40 CST		0	Thunderstorm Wind (MG 62 kt)
	07/29/14 23:41 CST		0	Source: Mesonet
A dissipating thunderstorm crossed the N downburst wind which was sampled by th severe weather was observed.	lew Mexico and Oklahoma state line ne Oklahoma Mesonet site 5 miles s	e shortly before midnig outheast of Kenton ((ght of the 30th. Th Cimarron County).	is thunderstorm produced a 71 mph After producing this gust, no further
A weak shortwave trough allowed thun mountains and neared the Oklahoma a localized severe downburst wind. No fu	derstorms to develop along the Ne nd New Mexico state lines, and beg ırther severe weather occurred afte	w Mexico mountains gan dissipating. As t er this downburst.	s. These thunders he thunderstorm (corms moved off the dissipated it produced a
TEXAS, North Panhandle				
(TX-Z001) DALLAM, (TX-Z002) SHERMA MOORE, (TX-Z008) HUTCHINSON, (TX- (TX-Z014) GRAY, (TX-Z015) WHEELER, COLLINGSWORTH	AN, (TX-Z003) HANSFORD, (TX-Z00 Z009) ROBERTS, (TX-Z010) HEMPH (TX-Z016) DEAF SMITH, (TX-Z017)	4) OCHILTREE, (TX-z IILL, (TX-Z011) OLDH RANDALL, (TX-Z018	2005) LIPSCOMB, IAM, (TX-Z012) PC) ARMSTRONG, (*	(TX-Z006) HARTLEY, (TX-Z007) DTTER, (TX-Z013) CARSON, FX-Z019) DONLEY, (TX-Z020)
	07/01/14 00:00 CST		0	Drought
	07/31/14 23:59 CST		0	
The wet summer pattern continued thro of rain for the month. Some parts of the July. A band of Exceptional (D4) Droug County improved to Moderate (D1) Dro Extreme (D3) Drought. Amarillo recorded	bugh July for most of the Texas Pa e Panhandle received greater than ht remained from Carson County n ught by the end of July. Otherwise, ed 1.82 inches of precipitation for t	nhandle, with most I 6 inches of rain, or g orthwestward to eas , the remainder of th he month (1.02 inche	ocations measurii reater than twice stern Dallam Coun e Panhandles ran es below normal),	ng at least 2 to 4 inches the monthly average for ty. Most of Deaf Smith ged from Severe (D2) to Dalhart recorded 2.15

Soil moisture was rated from short to adequate during the month. Crops were mostly benefiting from the rains, but were running behind in areas that were too wet or too dry. A dry end to the month increased drought stress on some crops. Rangeland and pasture continued to improve, but cattle herd sizes remained limited due to prolonged drought. Upper soil zones were mostly in the 10 to 30 percent full range, with a few locations much better or much worse. Deeper soil moisture was still below normal in much of the Texas

inches of precipitation (0.64 inches below normal), and Borger recorded 3.17 inches of precipitation (0.55 inches above normal).

Panhandle, but values were estimated to be greater than 150 percent of normal across some areas. The Palmer Drought Severity Index indicated a rating of Moderate Drought conditions for the Texas Panhandle. Countywide burn bans were supported in several counties.

Stream flows across the Texas Panhandle were near normal throughout July. The reservoirs of Lake Meredith and Palo Duro were below 4 percent capacity, and Greenbelt Lake was below 13 percent capacity. Water watches for several public water systems persisted through July while voluntary to mandatory mild water restrictions were continued.

Economic losses due to the drought through July were predominately the result of supplemental watering in the driest areas and supplemental feed for cattle on drought-thinned rangeland and pastures.

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/14/14 15:29 CST		0	Thunderstorm Wind (EG 52 kt)
	07/14/14 15:30 CST		0	Source: Trained Spotter

A cluster of thunderstorms moved into the Texas Panhandle during the early afternoon hours of the 14th. As storms neared Texline (Dallam County), a trained storms spotter reported a 60 mph downburst in town. After producing this downburst the cluster of storms continued moving southward across the Panhandle.

DALLAM COUNTY 0.6 W TEXLINE [36.38, -103.03]			
07/14/14 15:30 CST	0	Thunderstorm Wind (EG 56 kt)	
07/14/14 15:32 CST	0	Source: Public	

A cluster of thunderstorms moved into the Texas Panhandle during the early afternoon hours of the 14th. As storms neared Texline (Dallam County), a member of the public reported a downburst severely damaged a grain elevator and silo. The speed of this downburst was estimated at 65 mph. After producing this downburst the cluster of storms continued moving southward across the Panhandle.

HARTLEY COUNTY 0.7 N (DHT)DALHART MUNI AR [36.03, -102.55]			
07/14/14 16:08 CST	0	Thunderstorm Wind (MG 50 kt)	
07/14/14 16:10 CST	0	Source: ASOS	

A cluster of thunderstorms moved into the Texas Panhandle during the early afternoon hours of the 14th. As storms neared the town of Dalhart (Dallam and Hartley County), the Dalhart ASOS reported a 58 MPH downburst. After producing this downburst the cluster of storms continued moving southward across the Panhandle.

HARTLEY COUNTY 0.7 N (DHT)DALHART MUNI AR [36.03, -102.55]			
07/14/14 16:15 CST	0	Thunderstorm Wind (MG 50 kt)	
07/14/14 16:16 CST	0	Source: ASOS	

A cluster of thunderstorms moved into the Texas Panhandle during the early afternoon hours of the 14th. As storms neared the town of Dalhart (Dalham and Hartley County), the Dalhart ASOS reported a 58 mph downburst. After producing this downburst the cluster of storms continued moving southward across the Panhandle.

MOORE COUNTY 8.0 WNW FOUR WAY [35.71, -102.11]			
07/14/14 16:52 CST	0	Thunderstorm Wind (MG 52 kt)	
07/14/14 16:53 CST	0	Source: Broadcast Media	

A cluster of thunderstorms moved into the Texas Panhandle during the early afternoon hours of the 14th. As storms neared the town of Four Way (Moore County), the KVII Schoolnet site at Middlewell Methodist Church 10 mile west-northwest of Four Way (Moore County) reported a 60 mph downburst. After producing this downburst the cluster of storms continued moving southward across the Panhandle.

RANDALL COUNTY 7.3 WSW AMARILLO [35.16, -101.94]			
07/14/14 17:57 CST	0	Hail (1.00 in)	
07/14/14 17:58 CST	0	Source: NWS Employee	

The collision of two outflow boundaries caused the development of thunderstorms over the southern Texas Panhandle during the evening hours of the 14th. This allowed storms to quickly intensify to produce a mixture of heavy rain and quarter size hail (1.00 inch) near the intersection of 45 th Ave and Soncy Street on the southwest side of Amarillo (Randall County). After producing this hail the storms slowly moved southward across the southern Texas Panhandle before weakening as sunset approached.

RANDALL COUNTY 7.6 WSW AMARILLO [35.15, -101.94]			
07/14/14 17:58 CST	0	Hail (0.75 in)	
07/14/14 17:59 CST	0	Source: Emergency Manager	

The collision of two outflow boundaries caused the development of thunderstorms over the southern Texas Panhandle during the evening hours of the 14th. This allowed storms to quickly intensify to produce a mixture of heavy rain and penny size hail (0.75 inch) near the intersection of Soncy Street and Hillside. After producing this hail the storms slowly moved southward across the southern Texas Panhandle before weakening as sunset approached.

RANDALL COUNTY 7.5 WNW TIMBERCREEK CANYON [35.11, -101.93]			
07/14/14 18:00 CST	0	Hail (0.88 in)	
07/14/14 18:01 CST	0	Source: Trained Spotter	

The collision of two outflow boundaries caused the development of thunderstorms over the southern Texas Panhandle during the evening hours of the 14th. This allowed storms to quickly intensify to produce a mixture of heavy rain and nickel size hail (0.88 inch) as reported by a trained storm spotter. After producing this hail the storms slowly moved southward across the southern Texas Panhandle before weakening as sunset approached .

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
RANDALL COUNTY 8.4 WSW AMARILLO [35.14	, -101.95]			
	07/14/14 18:04 CST		0	Hail (1.00 in)
	07/14/14 18:05 CST		0	Source: Public

The collision of two outflow boundaries caused the development of thunderstorms over the southern Texas Panhandle during the evening hours of the 14th. This allowed storms to quickly intensify to produce a mixture of heavy rain and quarter size hail (1.00 inch) in the Hillside Terrace Neighborhood on the southwest side of Amarillo (Randall County). After producing this hail the storms slowly moved southward across the southern Texas Panhandle before weakening as sunset approached.

DEAF SMITH COUNTY 9.5 WSW WALCOTT [34.89, -102.99]			
07/14/14 18:50 CST	0	Thunderstorm Wind (MG 53 kt)	
07/14/14 18:51 CST	0	Source: Mesonet	

The collision of two outflow boundaries caused the development of thunderstorms over the southern Texas Panhandle during the evening hours of the 14th. This allowed storms to quickly intensify slowly move southward across the southern Texas Panhandle . As the storms neared the town of Bootleg (Deaf Smith County), the West Texas Mesonet 11 miles west-northwest of Bootleg (Deaf Smith County) reported a 61 mph downburst. These storms weakening as sunset approached, and did not produce any further severe weather after sunset.

The Texas Panhandle saw a round of severe convection during the afternoon hours of the 14th. A cold front slowly moving southwestward into the Panhandle combined with a shortwave trough rounding the base of a closed low over the Great Lakes set the stage for convection to develop. The 6 PM CST upper air sounding out of Amarillo (Potter County) showed moderate CAPE of 2673 J/kg and weak deep layer shear in place across the Panhandle. Convection developed over western Kansas and southeastern Colorado and moved southward to enter the Panhandle around 1 PM CST (3 PM CST). While over the northern Texas Panhandle, the storms were able to produce a combination of sub-severe hail and severe wet microbursts. As the storms approached the southern Texas Panhandle, they encountered an outflow from convection over Northwest Texas. The combined forcing of the outflows allowed storms to intensify to produce both severe hail and downbursts. Storms weakened after sunset due to the loss of heating.

RANDALL COUNTY 9.9 W AMARI	LLO [35.19, -101.99], 9.1 NNW CANYON [35.10, -	102.00], 5.0 SSW AMAR	LLO [35.14, -101.86], 3.0 W AMARILLO
[35.21, -101.87]			
	07/14/14 18:31 CST	0	Flash Flood (due to Heavy Rain)
	07/14/14 21:00 CST	0	Source: NWS Employee

The convergence of two outflow boundaries over the city of Amarillo (Potter and Randall County) produced thunderstorms capable of producing very intense rainfall. These storms also moved very slowly to the south after developing which allowed for a longer residency time over the city. The intense rainfall caused flash flooding to occur across the southwest side of town. Flood waters were deep enough to come half way up the wheels of cars at the intersection of 45th Ave. and Bell Street (Randall County). This flash flooding persist for a few hours before precipitation ended then quickly receded. Storm total rainfall in these areas ranged from 1 inch to 1.5 inches.

RANDALL COUNTY --- 9.9 W AMARILLO [35.19, -101.99], 9.1 NNW CANYON [35.10, -102.00], 5.0 SSW AMARILLO [35.14, -101.86], 3.0 W AMARILLO [35.21, -101.87]

07/14/14 18:43 CST	0	Flash Flood (due to Heavy Rain)
07/14/14 21:00 CST	0	Source: Amateur Radio

The convergence of two outflow boundaries over the city of Amarillo (Potter and Randall County) produced thunderstorms capable of producing very intense rainfall. These storms also moved very slowly to the south after developing which allowed for a longer residency time over the city. The intense rainfall caused flash flooding to occur across the southwest side of town. Flood waters were reported to be as deep as a foot and one half foot deep from the Bell Street exit of Interstate 40 (Potter County) to the intersection of 45 th Street and Western Street (Randall County). This flash flooding persist for a few hours before precipitation ended then quickly receded. Storm total rainfall in these areas ranged from 1 inch to 1.5 inches.

The southern Texas Panhandle saw a round of intense rainfall during the afternoon hours of the 14th. A cold front slowly moving southwestward into the Panhandle combined with a shortwave trough rounding the base of a closed low over the Great Lakes set the stage for convection to develop. The 6 PM CST upper air sounding out of Amarillo (Potter County) showed moderate CAPE of 2673 J/kg, 1.30 inches of PWAT, and weak deep layer shear in place across the Panhandle. As storms approached the southern Texas Panhandle from the north, they encountered an outflow from convection over Northwest Texas. The combined forcing of the outflows allowed storms to intensify and slowed the storm motions. The heavier rainfall and increase residence time over the area lead to widespread flash flooding. This flash flooding dissipated quickly once convection moved into Northwest Texas by 10 PM CST.

HANSFORD COUNTY 5.6 W GRUVER [36.27, -101.50], 5.3 WSW GRUVER [36.23, -101.48]			
07/16/14 17:00 CST	0	Hail (1.00 in)	
07/16/14 17:05 CST	0	Source: Trained Spotter	

A discrete supercell thunderstorm developed over northern Hansford County during the evening hours of the 16th. As this storm moved southeastward towards the town of Gruver (Hansford County), a trained storm spotter reported quarter size hail (1.00 inch) 5 miles west of Gruver. After producing this hail the storm continued moving southeastward across the county.

Storm Data and Unusual Weather Phenomena - July 2014						
Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details		
HANSFORD COUNTY 10.6 W GRUVER [36.27, -101.59], 9.8 W GRUVER [36.25, -101.57]						
	07/16/14 17:41 CST		0	Hail (1.00 in)		
	07/16/14 17:42 CST		0	Source: Law Enforcement		
A discrete supercell thunderstorm develop towards the town of Gruver (Hansford Co producing this hail the storm continued m	ped over northern Hansford County du unty), a local law enforcement officer oving southeastward across the count	uring the evening l reported quarter s ty.	nours of the 16th. <i>i</i> ize hail (1.00 inch)	As this storm moved southeastward) 10 miles west of Gruver. After		
SHERMAN COUNTY 21.9 E LAUTZ [3	6.18, -101.64]					
	07/16/14 17:55 CST		0	Hail (1.00 in)		
	07/16/14 17:58 CST		0	Source: Storm Chaser		
A discrete supercell thunderstorm develop towards the town of Gruver (Hansford Co producing this hail the storm continued m	ped over northern Sherman County du unty), a storm chaser reported quarter oving southeastward across the count	uring the evening l r size hail (1.00 ind ty.	nours of the 16th. A	As this storm moved southeastward of Gruver (Sherman County). After		
SHERMAN COUNTY 21.9 E LAUTZ [3	6.18, -101.64]					
	0//16/14 17:55 CST		U	I nunderstorm Wind (EG 61 kt)		
	07/16/14 17:58 CST		0	Source: Storm Chaser		
A discrete supercell thunderstorm develop towards the town of Gruver (Hansford Co After producing this gust the storm contin	ped over northern Sherman County du unty), a storm chaser estimated a 70 ued moving southeastward across the	uring the evening I mph wind gust 14 e county.	nours of the 16th. , miles west-southw	As this storm moved southeastward est of Gruver (Sherman County).		
SHERMAN COUNTY 2.5 E MALLETT	[36.35, -102.05]		0			
	07/16/14 18:08 CST		0	Iornado (EF0, L: 0.01 mi , W: 50 yd)		
SHERMAN COUNTY 1.8 ESE MALLET	after producing this tornado. No dama	ge was reported v	vith this tornado.			
	07/16/14 18:19 CST		0	Hail (1.50 in)		
	07/16/14 18:21 CST		0	Source: Trained Spotter		
A discrete supercell thunderstorm develop over the town of Stratford (Sherman Coun continued moving southeastward across	ped over northern Sherman County du nty), a trained storm spotter reported p the county.	uring the evening l bing pong ball size	nours of the 16th. <i>i</i> hail (1.50 inches).	As this storm moved southeastward After producing this hail the storm		
SHERMAN COUNTY 4.5 SSE MALLET	FT [36.29, -102.07]					
	07/16/14 18:23 CST		0	Thunderstorm Wind (EG 61 kt)		
	07/16/14 18:24 CST		0	Source: Trained Spotter		
A discrete supercell thunderstorm develop over the town of Stratford (Sherman Cour Highway 287 thee miles south of Stratford	ped over northern Sherman County du nty), a trained storm spotter reported a d (Sherman County). After producing t	uring the evening I an estimated 70 m his hail the storm	nours of the 16th. A ph thunderstorm ground thunderstorm ground the continued moving states and the continued moving states an	As this storm moved southeastward ust which downed power lines on US southeastward across the county.		
SHERMAN COUNTY 3.7 SE MALLETT	T [36.31, -102.05], 3.8 SSE MALLETT 07/16/14 18:26 CST	[36.30, -102.07]	0	Tornado (EF0, L: 1.34 mi , W: 100 yd)		
	07/16/14 18:33 CST		0	Source: NWS Storm Survey		
A discrete supercell developed over Sher Stratford (Sherman County). A storm cha US Highway 287. The estimated max win	man County during the evening hours ser captured multiple images of the to id was 70 mph and the storm which pr	of the 16th. The rnado, and it caus oduced the tornad	storm produced a s sed damage to an o lo continued to mo	second brief tornado on the south side of butbuilding and downed power lines along ve south across the county.		
SHERMAN COUNTY 1.8 ESE MALLE	FT [36.34, -102.07]					
	07/16/14 18:30 CST		0	Thunderstorm Wind (EG 61 kt)		
	07/16/14 18:32 CST		0	Source: Law Enforcement		

Storm Data and Unusual Weather Phenomena - July 2014				
Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
A discrete supercell thunderstorm dev over the town of Stratford (Sherman C tree, downed power lines, and downed the county.	eloped over northern Sherman County du County), a local law enforcement officer rej d fences in Stratford (Sherman County). A	ring the evening h ported an estimate fter producing this	ours of the 16th. d 70 mph thunde gust the storm co	As this storm moved southeastward rstorm gust which blew down a 20 foot intinued moving southeastward across
MOORE COUNTY 4.7 W ETTER [3	6.03, -102.08], 5.5 SW ETTER [35.98, -102 07/16/14 19:23 CST	2.08]	0	Tornado (EF0, L: 3.07 mi , W: 100 yd)
	07/16/14 19:30 CST		0	Source: Trained Spotter
A cluster of thunderstorms went throug west-southwest of the town of Cactus formed over open area and caused no After producing the brief tornado, the	gh multiple mergers over Moore County du (Moore County) provided additional tighte o damage. However, multiple trained storm merging storms transitioned into an linear	uring the evening I ning of the updraft n spotter reported structure and mov	nours of the 16th. t and allowed a br the brief tornado. red southeastward	One cell merger 5 miles ief tornado to form. This tornado The estimated wind speed was 65 mph. d across the southern Texas Panhandle .
MOORE COUNTY 4.5 W ETTER [3	6.02, -102.08]			
	07/16/14 19:35 CST		0	Hail (1.75 in)
	07/16/14 19:36 CST		0	Source: Public
Discrete supercells began transitioning (Moore County), a member of the pub and sorghum crops along Highway 28	g to a linear structure during the late even lic 4 miles west-southwest of Cactus (Moc 1. After producing this hail the cluster of s	ing hours of the 16 pre County) reporte torms continued to	Sth. As this cluster ed golf ball size ha o move to the sout	of storms neared the town of Cactus ail (1.75 inches). This hail damaged corn heast.
	07/16/14 20:11 CST		0	Thunderstorm Wind (EG 56 kt)
	07/16/14 20:12 CST		0	Source: Amateur Radio
gust the cluster of storms continued to OLDHAM COUNTY 6.1 NE VEGA [35.31, -102.35] 07/16/14 21:08 CST 07/16/14 21:10 CST		0 0	Hail (1.75 in) Source: Law Enforcement
A line of thunderstorms moved across a local law enforcement officer 6 miles thunderstorms continued to move to th	Oldham County during the late evening h s northeast of Vega (Oldham County) report ne south-southeast across the Texas Panl	ours of the 16th. / orted golf ball size handle.	As the line moved hail (1.75 inches).	near the town of Vega (Oldham County), After producing this hail, the line of
DEAF SMITH COUNTY 5.9 NW DA	WN [34.99, -102.26]		0	
	07/16/14 21:16 CST		0	Hall (1.00 III) Source: Emergency Manager
07/16/14 21:17 CST 0 Source: Emergency Manager A line of thunderstorms moved across Oldham County during the late evening hours of the 16th. As the line moved near the town of Dawn (Deaf Smith County), the County Emergency Manager reported quarter size hail (1.00 inch) 6 miles north-northwest of Dawn (Deaf Smith County). After producing this hail, the line of thunderstorms continued to move to the south-southeast across the Texas Panhandle.				
Northwest flow aloft brought a round of severe convection during the evening hours of the 16th to the Texas Panhandle. As a shortwave trough moved out of Colorado, a warn front was situated across the northern and eastern Texas Panhandle. Convection developed along this front during the evening hours. The combination of marginal instability, moderate deep layer shear, and additional turning of low level winds in the vicinity of the front allowed for brief tornadoes to develop. As the evening progressed, the outflows from storms pushed the warm front southward across the Panhandle. Severe convection ended around 9 PM CST as storms transitioned to heavy rain production.				
POTTER COUNTY 0.9 NW AMARILLO [35.21, -101.83], 1.2 NNW AMARILLO [35.22, -101.83], 1.0 NNE AMARILLO [35.21, -101.81], 0.5 NNE AMARILLO [35.21, -101.82], 0.4 SE AMARILLO [35.20, -101.81], 0.7 W AMARILLO [35.20, -101.83]				
	07/17/14 03:00 CST		0	Source: Emergency Manager
A cluster of intense rain producing thunderstorms moved over the city of Amarillo (Potter County) for an extended period of time. This intense rain led to the development of flash flooding at the railroad crossings of 3 rd Ave and 10th Ave. The flood barricades at both locations were closed to prevent motorist from driving into the flooded underpass. These flood water persisted for several hours before receding by 3 AM CST.				
POTTER COUNTY 1.7 W AMARILL	O [35.20, -101.85], 1.2 W AMARILLO [35.	.20, -101.84], 1.5 V	VSW AMARILLO	[35.19, -101.84], 2.0 WSW

AMARILLO [35.19, -101.85]

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/16/14 22:05 CST		0	Flash Flood (due to Heavy Rain)
	07/17/14 03:00 CST		0	Source: Emergency Manager

A cluster of intense rain producing thunderstorms moved over the city of Amarillo (Potter County) for an extended period of time. This intense rain led to the development of flash flooding at the underpass of Interstate 40 and Washington Street. The water was estimated to be around 3 feet deep. These flood waters persisted for several hours before receding by 3 AM CST.

RANDALL COUNTY 1.5 NNW CANYON [35.00, -101.93], 2.0 NNW CANYON [35.01, -*	101.93], 2.2 NNW CANY	ON [35.01, -101.94], 1.4 NW CANYON
[34.99, -101.94], 1.1 NNW CANYON [35.00, -101.93]		
07/16/14 23:10 CST	0	Flash Flood (due to Heavy Rain)
07/17/14 03:00 CST	0	Source: NWS Employee

A cluster of intense rain producing thunderstorms moved over the city of Amarillo (Potter County) for an extended period of time. This intense rain led to the development of flash flooding at the Hunsley Hills area. The flash flooding carried a large dumpster floating down the road and an unoccupied car was stranded in the water. This flood water persisted for several hours before receding by 3 AM CST.

Northwest flow aloft brought a round of convection during the evening hours of the 16th to the Texas Panhandle. As a shortwave trough moved out of Colorado, a warn front was situated across the northern and eastern Texas Panhandle. Convection developed along this front during the evening hours. This convection was able to produce intense rainfall due to climatologically high PWAT values across the Panhandle. This intense rainfall led to the development of flash flooding. The flooding continued until thunderstorms moved into western Oklahoma.

HUTCHINSON COUNTY 0.7 N FRITCH [35.64, -101.60], 2.3 W FRITCH [35.63, -101.64]			
07/22/14 16:05 CST	0	Hail (1.00 in)	
07/22/14 16:07 CST	0	Source: Broadcast Media	

Discrete thunderstorms developed over Hutchinson County during the evening hours of the 22nd. As the storm moved over the town of Fritch (Hutchinson County), local broadcast media reported nickel to quarter size hail (0.88 to 1.00 inch) in town. After producing this hail the storm moved southwestward across the county.

HUTCHINSON COUNTY 0.7 N FRITCH [35.64, -101.60], 0.9 NW FRITCH [35.64, -101.61]				
07/22/14 16:09 CST	0	Hail (1.00 in)		
07/22/14 16:10 CST	0	Source: Trained Spotter		

Discrete thunderstorms developed over Hutchinson County during the evening hours of the 22nd. As the storm moved over the town of Fritch (Hutchinson County), a trained storm spotter reported dime to quarter size hail (0.70 to 1.00 inch) in town. After producing this hail the storm moved southwestward across the county.

HUTCHINSON COUNTY 0.7 N FRITCH [35.64, -101.60], 0.8 NW FRITCH [35.64, -101.61]			
07/22/14 16:14 CST	0	Hail (1.75 in)	
07/22/14 16:16 CST	0	Source: Public	

Discrete thunderstorms developed over Hutchinson County during the evening hours of the 22nd. As the storm moved over the town of Fritch (Hutchinson County), a member of the public reported golf ball size hail (1.75 inches) in town. After producing this hail the storm moved southwestward across the county.

HANSFORD COUNTY 3.9 NE GRUVER [36.31, -101.35], 3.1 NE GRUVER [36.30, -101.36]				
07/22/14 17:25 CST	0	Hail (0.88 in)		
07/22/14 17:26 CST	0	Source: Public		

Discrete thunderstorms developed over Hansford County during the evening hours of the 22nd. As the storm moved north of the town of Gruver (Hansford County), a member of the public reported nickel size hail (0.88 inch) 5 miles northeast of Gruver (Hansford County). After producing this hail the storm moved southwestward across the county.

HANSFORD COUNTY 4.9 N GRUVER [36.34, -101.41]			
07/22/14 17:28 CST	0	Thunderstorm Wind (EG 50 kt)	
07/22/14 17:30 CST	0	Source: Public	

Discrete thunderstorms developed over Hansford County during the evening hours of the 22nd. As the storm moved north of the town of Gruver (Hansford County), a member of the public reported an estimated 58 mph thunderstorms downburst which blew over a large tree 6 miles north of Gruver (Hansford County). After producing this gust the storm diminished while moving southwestward across the county.

Scattered thunderstorms developed along residual outflow boundaries during the evening hours of the 22nd. Marginal instability allowed isolated severe storms to form over the Texas Panhandle. These storms quickly diminished before 6 Pm CST.

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
DEAF SMITH COUNTY 4.0 SW HEREFORD [34.7	78, -102.45]			
	07/27/14 21:20 CST		0	Thunderstorm Wind (EG 52 kt)
	07/27/14 21:21 CST		0	Source: Public

Decaying thunderstorms moved into the southwestern Texas Panhandle during the late evening hours of the 27th. This outflow from these decaying thunderstorms blew down three utility poles and heavily damaged two tin out buildings.

A cold front moved through the southern Texas Panhandle during the day of the 27th. Thunderstorms developed along the cold front as it moved into Northwest Texas. These thunderstorms overran the front and began to decay over the southwestern Texas Panhandle. As the storms decayed they produced an outflow gust which produced damaged near Hereford (Deaf Smith County). Once these storms dissipated, no further severe report was observed.