

Storm Data and Unusual Weather Phenomena - May 2013

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

(OK-Z004) HARPER, (OK-Z005) WOODS, (OK-Z006) ALFALFA, (OK-Z007) GRANT, (OK-Z008) KAY, (OK-Z009) ELLIS, (OK-Z010) WOODWARD, (OK-Z011) MAJOR, (OK-Z012) GARFIELD, (OK-Z013) NOBLE, (OK-Z014) ROGER MILLS, (OK-Z015) DEWEY, (OK-Z016) CUSTER, (OK-Z017) BLAINE, (OK-Z018) KINGFISHER, (OK-Z019) LOGAN, (OK-Z020) PAYNE, (OK-Z021) BECKHAM, (OK-Z022) WASHITA, (OK-Z023) CADDO, (OK-Z027) GRADY, (OK-Z033) HARMON, (OK-Z034) GREER, (OK-Z035) KIOWA, (OK-Z036) JACKSON, (OK-Z037) TILLMAN, (OK-Z038) COMANCHE, (OK-Z039) STEPHENS, (OK-Z041) MURRAY, (OK-Z044) COTTON, (OK-Z045) JEFFERSON, (OK-Z046) CARTER, (OK-Z047) JOHNSTON, (OK-Z050) LOVE, (OK-Z051) MARSHALL

05/01/13 00:00 CST	0	Drought
05/31/13 23:59 CST	0	

Some rainfall events occurred during May, but with a heavy bias toward central Oklahoma near the I-35 corridor, where drought conditions continued to improve. Drought was eliminated for the first time since June 2012 in and around the Oklahoma City metro area, extending southeast toward Ada and Atoka. However, extreme to exceptional drought persisted over much of western Oklahoma, including some worsening along the border with the Texas Panhandle.

KIOWA COUNTY --- ROOSEVELT [34.85, -99.02]

05/01/13 14:40 CST	0	Hail (1.75 in)
05/01/13 14:40 CST	0	Source: Other Federal Agency

Reported via nssl Shave Project.

KIOWA COUNTY --- ROOSEVELT [34.85, -99.02]

05/01/13 14:54 CST	0	Hail (1.75 in)
05/01/13 14:54 CST	0	Source: Amateur Radio

KIOWA COUNTY --- ROOSEVELT [34.85, -99.02]

05/01/13 14:58 CST	0	Thunderstorm Wind (EG 52 kt)
05/01/13 14:58 CST	0	Source: Amateur Radio

Estimated by amateur radio operator.

KIOWA COUNTY --- ROOSEVELT [34.85, -99.02]

05/01/13 15:00 CST	0	Hail (1.75 in)
05/01/13 15:00 CST	0	Source: Amateur Radio

Pea to golfball size hail fell from 1500-1530 CST.

KIOWA COUNTY --- 1.8 NE COLD SPRINGS [34.82, -98.98]

05/01/13 15:14 CST	0	Hail (1.75 in)
05/01/13 15:14 CST	0	Source: Trained Spotter

TILLMAN COUNTY --- MANITOU [34.51, -98.98]

05/01/13 15:54 CST	0	Hail (1.00 in)
05/01/13 15:54 CST	0	Source: Trained Spotter

TILLMAN COUNTY --- 0.6 E FREDERICK [34.39, -99.01]

05/01/13 15:58 CST	0	Hail (1.00 in)
05/01/13 15:58 CST	0	Source: Amateur Radio

A strong cold front pushed through the southern Plains during the day. Ahead of the front, thunderstorms developed in an environment of moderate to strong instability and weak deep-layer wind shear. These storms produced numerous reports of marginally-severe hail and a few damaging wind gusts.

HARPER COUNTY --- 3.9 NE LAVERNE [36.75, -99.85]

05/07/13 18:04 CST	0	Hail (1.00 in)
05/07/13 18:04 CST	0	Source: Trained Spotter

WOODWARD COUNTY --- 7.8 ESE MUTUAL [36.19, -99.04]

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	05/07/13 21:10 CST		0	Thunderstorm Wind (MG 59 kt)
	05/07/13 21:10 CST		0	Source: Mesonet
Modest instability and moisture existed beneath moderately strong wind shear, allowing for high-based supercells to form over parts of the southern High Plains during the late afternoon. While most of the activity remained in Kansas, a lone cell developed over the far eastern Oklahoma Panhandle and tracked eastward through portions of northwest Oklahoma. A severe hail report was received near Laverne.				
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ROGER MILLS COUNTY --- 3.9 NW HAMMON [35.67, -99.43]				
	05/08/13 14:30 CST		0	Hail (1.00 in)
	05/08/13 14:30 CST		0	Source: Storm Chaser
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DEWEY COUNTY --- 2.1 SSW LEEDEY [35.84, -99.36]				
	05/08/13 15:20 CST		0	Hail (2.00 in)
	05/08/13 15:20 CST		0	Source: Trained Spotter
Spotters reported 2" hail at this time, as well as 1.5" hail 8 minutes earlier.				
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CANADIAN COUNTY --- 9.4 WSW CALUMET [35.54, -98.27]				
	05/08/13 16:02 CST		0	Hail (1.00 in)
	05/08/13 16:02 CST		0	Source: Trained Spotter
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CANADIAN COUNTY --- 0.9 SW OKARCHE [35.72, -97.99]				
	05/08/13 16:06 CST		0	Hail (1.25 in)
	05/08/13 16:06 CST		0	Source: Trained Spotter
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CUSTER COUNTY --- 1.8 WNW THOMAS [35.76, -98.78]				
	05/08/13 16:08 CST		0	Hail (2.00 in)
	05/08/13 16:08 CST		0	Source: Trained Spotter
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CUSTER COUNTY --- 1.8 WNW THOMAS [35.76, -98.78]				
	05/08/13 16:35 CST		0	Hail (2.00 in)
	05/08/13 16:35 CST		0	Source: Storm Chaser
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CANADIAN COUNTY --- 11.8 SSW CALUMET [35.45, -98.22]				
	05/08/13 16:37 CST		0	Hail (2.00 in)
	05/08/13 16:37 CST		0	Source: Storm Chaser
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DEWEY COUNTY --- 4.5 W SEILING [36.15, -99.00]				
	05/08/13 16:45 CST		0	Hail (1.00 in)
	05/08/13 16:45 CST		0	Source: Storm Chaser
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DEWEY COUNTY --- 3.4 W SEILING [36.15, -98.98]				
	05/08/13 16:55 CST		0	Hail (2.50 in)
	05/08/13 16:55 CST		0	Source: Storm Chaser
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BLAINE COUNTY --- 1.3 ESE EAGLE CITY [35.92, -98.57]				
	05/08/13 17:03 CST		0	Hail (1.00 in)
	05/08/13 17:03 CST		0	Source: Storm Chaser
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CANADIAN COUNTY --- 9.1 S CALUMET [35.47, -98.14]				
	05/08/13 17:04 CST		0	Hail (2.60 in)
	05/08/13 17:04 CST		0	Source: Storm Chaser
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MAJOR COUNTY --- 0.7 S CHESTER [36.21, -98.92]				
	05/08/13 17:06 CST		0	Hail (1.75 in)
	05/08/13 17:06 CST		0	Source: Storm Chaser

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
CANADIAN COUNTY --- 5.5 WSW EL RENO [35.50, -98.05]				
	05/08/13 17:10 CST	0		Hail (1.50 in)
	05/08/13 17:10 CST	0		Source: Storm Chaser
MAJOR COUNTY --- 1.4 S CHESTER [36.20, -98.92]				
	05/08/13 17:11 CST	0		Hail (2.00 in)
	05/08/13 17:11 CST	0		Source: Trained Spotter
WOODWARD COUNTY --- 0.7 S QUINLAN [36.44, -99.05]				
	05/08/13 17:13 CST	0		Hail (1.50 in)
	05/08/13 17:13 CST	0		Source: Trained Spotter
CANADIAN COUNTY --- 4.5 W EL RENO [35.53, -98.04]				
	05/08/13 17:31 CST	0		Hail (1.75 in)
	05/08/13 17:31 CST	0		Source: Trained Spotter
MAJOR COUNTY --- 2.8 W ORION [36.22, -98.83]				
	05/08/13 17:35 CST	0		Hail (3.00 in)
	05/08/13 17:35 CST	0		Source: Trained Spotter
Several reports of tennis ball to tea cup size hail in this area between 5:30-5:40pm LST.				
CADDO COUNTY --- 4.2 S WASHITA [35.04, -98.33]				
	05/08/13 17:45 CST	0		Hail (1.00 in)
	05/08/13 17:45 CST	0		Source: Fire Department/Rescue
CADDO COUNTY --- 2.6 WNW ANADARKO [35.10, -98.28]				
	05/08/13 17:50 CST	0		Hail (2.00 in)
	05/08/13 17:50 CST	0		Source: Public
CADDO COUNTY --- 0.6 E WASHITA [35.10, -98.33]				
	05/08/13 17:53 CST	0		Hail (1.50 in)
	05/08/13 17:53 CST	0		Source: Emergency Manager
CADDO COUNTY --- 6.2 S FT COBB [35.01, -98.44]				
	05/08/13 17:55 CST	0		Hail (1.75 in)
	05/08/13 17:55 CST	0		Source: Amateur Radio
WOODWARD COUNTY --- MOORELAND [36.44, -99.21]				
	05/08/13 18:03 CST	0		Hail (1.75 in)
	05/08/13 18:03 CST	0		Source: Public
Also reported 1" hail 8 minutes earlier.				
CADDO COUNTY --- 2.6 WNW ANADARKO [35.10, -98.28]				
	05/08/13 18:09 CST	0		Hail (2.00 in)
	05/08/13 18:09 CST	0		Source: Emergency Manager
CADDO COUNTY --- 1.4 S GRACEMONT [35.17, -98.26]				
	05/08/13 18:17 CST	0		Hail (2.75 in)
	05/08/13 18:17 CST	0		Source: Emergency Manager
Also reported 1.5" hail 4 minutes earlier.				
CADDO COUNTY --- BINGER [35.31, -98.34]				
	05/08/13 18:36 CST	0		Hail (1.75 in)
	05/08/13 18:36 CST	0		Source: Emergency Manager

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CADDO COUNTY --- 0.7 S ANADARKO [35.07, -98.24]				
	05/08/13 18:50 CST		10K	Thunderstorm Wind (EG 52 kt)
	05/08/13 18:50 CST		0	Source: Amateur Radio
Power lines reported down in Anadarko.				
WOODS COUNTY --- 0.7 S WAYNOKA [36.58, -98.88]				
	05/08/13 19:10 CST		0	Hail (1.75 in)
	05/08/13 19:10 CST		0	Source: COOP Observer
GRADY COUNTY --- 4.0 SE MINCO [35.27, -97.89]				
	05/08/13 19:18 CST		0	Tornado (EF0, L: 0.10 mi , W: 50 yd)
	05/08/13 19:18 CST		0	Source: Broadcast Media
Brief tornado reported by KWTW and a Spotter Network storm chaser.				
WOODWARD COUNTY --- 9.1 N QUINLAN [36.58, -99.02]				
	05/08/13 19:27 CST		0	Hail (1.75 in)
	05/08/13 19:27 CST		0	Source: COOP Observer
STEPHENS COUNTY --- 0.9 NW SUNRAY [34.43, -97.97]				
	05/08/13 19:30 CST		10K	Thunderstorm Wind (EG 52 kt)
	05/08/13 19:30 CST		0	Source: Amateur Radio
Power lines reported down along a country road.				
STEPHENS COUNTY --- 1.5 NNW DUNCAN [34.52, -97.97]				
	05/08/13 19:30 CST		0	Hail (1.00 in)
	05/08/13 19:30 CST		0	Source: Public
WOODS COUNTY --- 5.3 SW HOPETON [36.63, -98.73]				
	05/08/13 19:51 CST		0	Hail (1.25 in)
	05/08/13 19:51 CST		0	Source: COOP Observer
CLEVELAND COUNTY --- 2.8 W MOORE [35.34, -97.54]				
	05/08/13 20:50 CST		0	Hail (2.25 in)
	05/08/13 20:50 CST		0	Source: Public
Reported half a mile east of 119th and Western. Also numerous reports of 1" hail around Moore between 8:43-8:53pm LST.				
ELLIS COUNTY --- 2.2 E GAGE [36.32, -99.72]				
	05/08/13 21:37 CST		0	Hail (1.00 in)
	05/08/13 21:37 CST		0	Source: Public
OKLAHOMA COUNTY --- 5.7 NW EDMOND [35.71, -97.55]				
	05/08/13 21:45 CST		0	Hail (1.00 in)
	05/08/13 21:45 CST		0	Source: NWS Employee
LOGAN COUNTY --- 2.1 SSW SEWARD [35.77, -97.50]				
	05/08/13 22:10 CST		0	Hail (1.75 in)
	05/08/13 22:10 CST		0	Source: Public
LINCOLN COUNTY --- 2.7 NW CHANDLER [35.74, -96.91]				
	05/08/13 22:53 CST		0	Hail (1.00 in)
	05/08/13 22:53 CST		0	Source: Emergency Manager

A dryline was located from western Kansas through the Texas Panhandle during the afternoon, with a moist, unstable airmass in place over Oklahoma as a shortwave trough approached. Numerous thunderstorms developed during the mid- to late-afternoon hours over much of western and central Oklahoma, with some displaying supercell characteristics at times. Widespread large hail was reported,

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some significant, along with isolated damaging winds.				
KIOWA COUNTY --- SNYDER [34.66, -98.95]				
	05/09/13 16:00 CST		0	Tornado (EF0, L: 0.10 mi , W: 10 yd)
	05/09/13 16:00 CST		0	Source: Broadcast Media
A brief, weak landspout tornado was observed in Snyder. This tornado caused minor damage to a carport. The time of this tornado is estimated.				
CADDO COUNTY --- 2.9 ESE CARNEGIE [35.09, -98.55]				
	05/09/13 16:36 CST		0	Hail (1.00 in)
	05/09/13 16:36 CST		0	Source: Amateur Radio
CADDO COUNTY --- 3.2 NNW FT COBB RES DAM [35.20, -98.48]				
	05/09/13 16:44 CST		0	Hail (1.50 in)
	05/09/13 16:44 CST		0	Source: Emergency Manager
JACKSON COUNTY --- 9.0 SSW ALTUS [34.52, -99.39]				
	05/09/13 17:21 CST		0	Tornado (EF0, L: 0.10 mi , W: 20 yd)
	05/09/13 17:21 CST		0	Source: Public
A resident photographed a brief landspout tornado in Jackson County to the south-southwest of Altus. No damage was reported.				
JACKSON COUNTY --- 2.8 NNE HESS [34.50, -99.26]				
	05/09/13 17:47 CST		0	Hail (1.00 in)
	05/09/13 17:47 CST		0	Source: Trained Spotter
JACKSON COUNTY --- 3.6 NE HESS [34.50, -99.23]				
	05/09/13 17:47 CST		0	Hail (1.00 in)
	05/09/13 17:47 CST		0	Source: Trained Spotter
Accompanied by heavy rain.				
A weak frontal boundary was quasi-stationary near the I-40 corridor through the day, with moist and unstable air to its south. Several rounds of thunderstorms occurred throughout the afternoon and evening across the southern half of Oklahoma. Most were sub-severe, due to weak deep-layer wind shear, but a few produced marginally-severe hail.				
CARTER COUNTY --- RATLIFF CITY [34.45, -97.51]				
	05/15/13 13:26 CST		0	Hail (1.00 in)
	05/15/13 13:26 CST		0	Source: Post Office
CARTER COUNTY --- RATLIFF CITY [34.45, -97.51]				
	05/15/13 14:33 CST		0	Hail (1.00 in)
	05/15/13 14:33 CST		0	Source: Public
JEFFERSON COUNTY --- RYAN [34.02, -97.95]				
	05/15/13 17:05 CST		0	Hail (1.00 in)
	05/15/13 17:05 CST		0	Source: Trained Spotter
PONTOTOC COUNTY --- 1.8 WNW ADA [34.78, -96.71], 1.5 NW ADA [34.78, -96.70]				
	05/15/13 17:34 CST		20K	Tornado (EF0, L: 0.50 mi , W: 50 yd)
	05/15/13 17:35 CST		0	Source: NWS Storm Survey
An F0 tornado developed just west of the city limits Ada and moved northeast about one-half mile. A mobile home was damaged near the beginning of the path and trees were snapped or uprooted along the path.				
PONTOTOC COUNTY --- 2.1 NNW ADA [34.80, -96.69]				
	05/15/13 17:45 CST		60K	Thunderstorm Wind (EG 56 kt)
	05/15/13 17:45 CST		0	Source: Emergency Manager
One trailer collapsed and had its roof blown off at Sandy Creek Trailer Park. Seven other trailers also were damaged.				

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PONTOTOC COUNTY --- 2.7 NW STONEWALL [34.68, -96.56]				
	05/15/13 17:45 CST		70K	Thunderstorm Wind (EG 56 kt)
	05/15/13 17:45 CST		0	Source: Amateur Radio
A dozen power lines were downed, along with large tree limbs. Time estimated from radar.				
A weak upper-level low was centered over western Oklahoma, with moderately moist and unstable air in place over central and southern Oklahoma. Combined with substantial low-level shear, this allowed supercells to develop during the mid-afternoon hours, generally along and southeast of the I-44 corridor. A few hail reports were received, along with one tornado near Ada.				
HARMON COUNTY --- 3.4 W GOULD [34.67, -99.83]				
	05/18/13 04:50 CST		0	Thunderstorm Wind (MG 60 kt)
	05/18/13 04:50 CST		0	Source: Mesonet
Mesonet station at Hollis reported a gust to 69 mph.				
Decaying thunderstorms over the Texas Panhandle moved into far southwest Oklahoma during the early morning hours of the 18th, resulting in severe wind gusts in Harmon County.				
JACKSON COUNTY --- 9.1 W ELDORADO [34.47, -99.81]				
	05/18/13 15:33 CST		0	Hail (1.75 in)
	05/18/13 15:33 CST		0	Source: Public
HARMON COUNTY --- GOULD [34.67, -99.77]				
	05/18/13 15:45 CST		0	Hail (2.50 in)
	05/18/13 15:45 CST		0	Source: Public
Relayed by local media (Ksw).				
JACKSON COUNTY --- 0.6 W WARREN [34.78, -99.22]				
	05/18/13 15:51 CST		0	Hail (2.50 in)
	05/18/13 15:51 CST		0	Source: Fire Department/Rescue
Continued for 20 minutes.				
JACKSON COUNTY --- FRIENDSHIP [34.70, -99.23]				
	05/18/13 15:51 CST		0	Hail (2.75 in)
	05/18/13 15:51 CST		0	Source: Emergency Manager
Relayed by EM. Also reported 1.25" hail five minutes prior.				
JACKSON COUNTY --- 0.6 W WARREN [34.78, -99.22]				
	05/18/13 16:11 CST		0	Hail (2.50 in)
	05/18/13 16:11 CST		0	Source: Fire Department/Rescue
Golfball to tennis ball size hail was reported.				
WASHITA COUNTY --- 0.7 S DILL CITY [35.27, -99.13]				
	05/18/13 16:15 CST		0	Hail (1.75 in)
	05/18/13 16:15 CST		0	Source: Amateur Radio
HARMON COUNTY --- MC QUEEN [34.67, -99.70]				
	05/18/13 16:27 CST		0	Hail (1.25 in)
	05/18/13 16:27 CST		0	Source: Law Enforcement
JACKSON COUNTY --- 4.6 W DUKE [34.67, -99.65]				
	05/18/13 16:34 CST		0	Hail (2.50 in)
	05/18/13 16:34 CST		0	Source: Law Enforcement
On Highway 62 at the Jackson-Harmon Co. line.				

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CUSTER COUNTY --- ARAPAHO [35.58, -98.96]				
	05/18/13 16:44 CST	0		Hail (1.25 in)
	05/18/13 16:44 CST	0		Source: Public
BECKHAM COUNTY --- 5.7 W ELK CITY [35.40, -99.52]				
	05/18/13 17:00 CST	0		Hail (2.50 in)
	05/18/13 17:00 CST	0		Source: Public
Public reported golfball to tennis ball size hail.				
CUSTER COUNTY --- 4.5 WSW WEATHERFORD [35.50, -98.77]				
	05/18/13 17:30 CST	0		Thunderstorm Wind (MG 54 kt)
	05/18/13 17:30 CST	0		Source: Mesonet
BLAINE COUNTY --- 6.2 SSE EAGLE CITY [35.85, -98.54]				
	05/18/13 18:00 CST	0		Thunderstorm Wind (MG 51 kt)
	05/18/13 18:00 CST	0		Source: Mesonet
Mesonet site at Watonga measured a wind gust to 59 mph.				
JACKSON COUNTY --- 2.8 E BLAIR [34.78, -99.28]				
	05/18/13 18:14 CST	0		Hail (2.00 in)
	05/18/13 18:14 CST	0		Source: Emergency Manager
KIOWA COUNTY --- LONE WOLF [34.99, -99.25]				
	05/18/13 18:23 CST	0		Hail (1.00 in)
	05/18/13 18:23 CST	0		Source: Public
COMANCHE COUNTY --- 1.3 WSW MT SCOTT [34.73, -98.55]				
	05/18/13 19:00 CST	0		Thunderstorm Wind (MG 52 kt)
	05/18/13 19:00 CST	0		Source: Mesonet
CUSTER COUNTY --- 4.5 WSW WEATHERFORD [35.50, -98.77]				
	05/18/13 19:10 CST	0		Thunderstorm Wind (MG 52 kt)
	05/18/13 19:10 CST	0		Source: Mesonet
CANADIAN COUNTY --- 4.5 SW CONCHO [35.56, -98.04]				
	05/18/13 19:15 CST	0		Thunderstorm Wind (MG 52 kt)
	05/18/13 19:15 CST	0		Source: Mesonet
GARFIELD COUNTY --- 1.1 E (END)VANCE AFB ENID [36.34, -97.90]				
	05/18/13 19:22 CST	0		Thunderstorm Wind (MG 56 kt)
	05/18/13 19:22 CST	0		Source: AWOS
MAJOR COUNTY --- 4.0 E MENO [36.38, -98.11]				
	05/18/13 19:40 CST	0		Thunderstorm Wind (MG 58 kt)
	05/18/13 19:40 CST	0		Source: Mesonet
JACKSON COUNTY --- ALTUS [34.64, -99.33]				
	05/18/13 19:45 CST	0		Hail (1.75 in)
	05/18/13 19:45 CST	0		Source: Public
GARFIELD COUNTY --- 2.6 WSW (WDG) WOODRING ARPT [36.36, -97.83]				
	05/18/13 19:50 CST	0		Thunderstorm Wind (MG 54 kt)
	05/18/13 19:50 CST	0		Source: AWOS

Measured at Woodwing Airport.

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GARFIELD COUNTY --- 3.0 SE BRECKINRIDGE [36.41, -97.69]				
	05/18/13 19:50 CST		0	Thunderstorm Wind (MG 55 kt)
	05/18/13 19:50 CST		0	Source: Mesonet
JACKSON COUNTY --- ALTUS [34.64, -99.33]				
	05/18/13 19:51 CST		0	Hail (1.75 in)
	05/18/13 19:51 CST		0	Source: Amateur Radio
At Park Lane and Heritage areas.				
GARFIELD COUNTY --- 1.1 E (END)VANCE AFB ENID [36.34, -97.90]				
	05/18/13 20:00 CST		0	Hail (1.90 in)
	05/18/13 20:00 CST		0	Source: Trained Spotter
JACKSON COUNTY --- (LTS)ALTUS AFB [34.66, -99.29]				
	05/18/13 20:00 CST		0	Hail (1.90 in)
	05/18/13 20:00 CST		0	Source: Trained Spotter
GRADY COUNTY --- 0.9 NW MINCO [35.32, -97.95]				
	05/18/13 20:05 CST		1K	Thunderstorm Wind (EG 56 kt)
	05/18/13 20:05 CST		0	Source: Other Federal Agency
One foot diameter tree was downed.				
GARFIELD COUNTY --- ENID [36.40, -97.88]				
	05/18/13 20:08 CST		40K	Thunderstorm Wind (EG 56 kt)
	05/18/13 20:08 CST		0	Source: Emergency Manager
Many trees and power lines downed, and a police officer was injured by debris.				
GARFIELD COUNTY --- 3.0 SE BRECKINRIDGE [36.41, -97.69]				
	05/18/13 20:10 CST		0	Thunderstorm Wind (MG 54 kt)
	05/18/13 20:10 CST		0	Source: Mesonet
Mesonet measured wind gust to 62 mph. Also measured 58 mph five minutes earlier.				
OKLAHOMA COUNTY --- OKLAHOMA CITY [35.47, -97.51]				
	05/18/13 20:40 CST		30K	Thunderstorm Wind (EG 56 kt)
	05/18/13 20:40 CST		0	Source: Emergency Manager
Many power lines were downed in the area around 150th and Penn.				
COMANCHE COUNTY --- ELGIN [34.78, -98.29]				
	05/18/13 20:41 CST		0	Hail (1.75 in)
	05/18/13 20:41 CST		0	Source: Law Enforcement
MAJOR COUNTY --- 4.0 E MENO [36.38, -98.11]				
	05/18/13 20:50 CST		0	Thunderstorm Wind (MG 61 kt)
	05/18/13 20:50 CST		0	Source: Mesonet
Mesonet site at Lahoma measured a gust to 70 mph. Also measured gusts of 57-58 mph at several times over the preceding hour.				
COMANCHE COUNTY --- 3.3 SSW LAWTON [34.57, -98.42]				
	05/18/13 22:13 CST		0	Hail (1.25 in)
	05/18/13 22:13 CST		0	Source: Public
At I-44 and Highway 36.				
COMANCHE COUNTY --- 1.3 WSW LAWTON [34.60, -98.41]				

Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	05/18/13 22:27 CST		0	Hail (1.00 in)
	05/18/13 22:27 CST		0	Source: Broadcast Media
<hr/>				
DEWEY COUNTY --- 3.6 WNW CAMARGO [36.04, -99.35]				
	05/18/13 22:50 CST		0	Thunderstorm Wind (MG 52 kt)
	05/18/13 22:50 CST		0	Source: Mesonet
<p>A classic late Spring severe weather setup unfolded over the southern Plains. Rich low-level moisture and very warm temperatures contributed to high instability, while an incoming shortwave trough yielded deep-layer shear sufficient for supercells during the afternoon. Owing to the large spread between surface temperatures and dew points over most of Oklahoma, tornadoes did not occur, but significant hail was common with the storms early in their life cycles over far western Oklahoma. Later in the evening, storm outflows consolidated in some cases to produce more linear convection, transitioning the reports toward severe wind gusts farther east.</p>				
<hr/>				
ALFALFA COUNTY --- CHEROKEE [36.75, -98.35]				
	05/19/13 14:45 CST		0	Hail (1.00 in)
	05/19/13 14:45 CST		0	Source: Law Enforcement
<hr/>				
OKLAHOMA COUNTY --- 6.8 WNW EDMOND [35.69, -97.59]				
	05/19/13 14:47 CST		0	Hail (1.00 in)
	05/19/13 14:47 CST		0	Source: Trained Spotter
<p>Reported at McArthur and Coffee Creek Rd.</p>				
<hr/>				
OKLAHOMA COUNTY --- 8.7 WNW EDMOND [35.68, -97.63]				
	05/19/13 15:01 CST		0	Hail (1.50 in)
	05/19/13 15:01 CST		0	Source: Trained Spotter
<hr/>				
GRANT COUNTY --- 5.6 SSW WAKITA [36.81, -97.97]				
	05/19/13 15:05 CST		0	Hail (1.75 in)
	05/19/13 15:05 CST		0	Source: Law Enforcement
<p>Nescatunga near Highway 11.</p>				
<hr/>				
OKLAHOMA COUNTY --- 2.1 NNE THE VILLAGE [35.60, -97.54]				
	05/19/13 15:15 CST		10K	Thunderstorm Wind (EG 52 kt)
	05/19/13 15:15 CST		0	Source: Public
<p>Powerlines down at Penn and Memorial.</p>				
<hr/>				
OKLAHOMA COUNTY --- 5.0 W EDMOND [35.65, -97.57]				
	05/19/13 15:15 CST		0	Hail (1.25 in)
	05/19/13 15:15 CST		0	Source: Public
<hr/>				
WOODWARD COUNTY --- 17.6 N MOORELAND ARPT [36.73, -99.13]				
	05/19/13 15:15 CST		0	Thunderstorm Wind (MG 53 kt)
	05/19/13 15:15 CST		0	Source: Mesonet
<hr/>				
OKLAHOMA COUNTY --- 4.5 NNW ARCADIA LAKE [35.71, -97.40]				
	05/19/13 15:17 CST		0	Hail (1.00 in)
	05/19/13 15:17 CST		0	Source: Emergency Manager
<p>At I-35 and Seward.</p>				
<hr/>				
OKLAHOMA COUNTY --- EDMOND [35.65, -97.48]				
	05/19/13 15:18 CST		0	Hail (1.50 in)
	05/19/13 15:18 CST		0	Source: Amateur Radio
<p>At 178th and Western.</p>				

Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
OKLAHOMA COUNTY --- 1.8 S EDMOND [35.62, -97.48], 2.1 WSW ARCADIA LAKE [35.64, -97.41]				
	05/19/13 15:22 CST	0		Tornado (EF1, L: 4.50 mi , W: 900 yd)
	05/19/13 15:30 CST	0		Source: NWS Storm Survey
A tornado touched down in Edmond just northwest of 33rd Street and Boulevard Street. The tornado moved east just north of 33rd Street causing primarily EF0 damage, primarily to trees. The tornado turned northeast just before crossing Interstate 35 with isolated EF1 damage beginning just west of Interstate 35. One home north of E 15th Street and east of Interstate 35 suffered significant roof damage just before the tornado dissipated north of 15th Street and Air Depot Blvd.				
OKLAHOMA COUNTY --- 0.5 ENE ARCADIA LAKE [35.65, -97.36], 1.0 ENE ARCADIA LAKE [35.65, -97.35]				
	05/19/13 15:33 CST	0		Tornado (EF1, L: 0.54 mi , W: 200 yd)
	05/19/13 15:34 CST	0		Source: NWS Storm Survey
A brief tornado was observed just northeast of Lake Arcdia. The tornado damaged a power pole along Post Road just north of State Highway 66, otherwise no known damage occurred.				
OKLAHOMA COUNTY --- 3.6 NW ARCADIA LAKE [35.69, -97.41]				
	05/19/13 15:37 CST	0		Hail (2.60 in)
	05/19/13 15:37 CST	0		Source: Public
OKLAHOMA COUNTY --- 3.3 NW LUTHER [35.69, -97.23], 4.9 NNE LUTHER [35.72, -97.15]				
	05/19/13 15:41 CST	0		Tornado (EF2, L: 5.00 mi , W: 1000 yd)
	05/19/13 15:54 CST	0		Source: NWS Storm Survey
A tornado touched down just south of Triple XXX Road and Coffee Creek Road to the northwest of Luther and began to move east-northeast. The tornado began producing EF2 damage soon after crossing Luther Road where an outbuilding was destroyed. At least two mobile homes were destroyed as the tornado continued to the east-northeast. The tornado crossed Waterloo Road and moved into Logan County.				
OKLAHOMA COUNTY --- 3.5 N LUTHER [35.71, -97.18]				
	05/19/13 15:51 CST	0		Hail (2.75 in)
	05/19/13 15:51 CST	0		Source: Public
LOGAN COUNTY --- 9.7 SE MERIDIAN [35.72, -97.15], 9.8 SE MERIDIAN [35.73, -97.14]				
	05/19/13 15:54 CST	0		Tornado (EF2, L: 0.84 mi , W: 1000 yd)
	05/19/13 15:56 CST	0		Source: NWS Storm Survey
Tornado continued tracking ENE, producing tree damage as it clipped the extreme southeast corner of Logan County before moving into Lincoln County.				
GRADY COUNTY --- 3.1 ENE MIDDLEBERG [35.13, -97.69]				
	05/19/13 15:55 CST	0		Hail (2.00 in)
	05/19/13 15:55 CST	0		Source: Public
LINCOLN COUNTY --- 1.8 SW FALLIS [35.73, -97.14], 2.8 SE TRYON [35.85, -96.92]				
	05/19/13 15:56 CST	0		Tornado (EF3, L: 15.00 mi , W: 1200 yd)
	05/19/13 16:24 CST	0		Source: NWS Storm Survey
The large tornado continued to move northeast from Logan County into Lincoln County. The tornado passed just southeast of Fallis and then clipped the southeastern portion of Carney. It produced EF3 damage to a number of homes from just south of Carney into the southeast portion of the town. The tornado finally dissipated about 3 miles southeast of Tryon. Motions observed visually in this tornado suggest that the tornado was likely stronger than EF3 in western Lincoln County, but no damage indicators were available that would have supplied a rating higher than EF3 in this area.				
CLEVELAND COUNTY --- 1.3 WSW (OUN)NORMAN WESTHEIMER ARPT [35.24, -97.49]				
	05/19/13 16:02 CST	0		Hail (1.25 in)
	05/19/13 16:02 CST	0		Source: Public
At 36th Nw and Rock Creek Rd.				
MCCLAIN COUNTY --- 2.1 S NEWCASTLE [35.22, -97.60]				
	05/19/13 16:05 CST	0		Hail (1.00 in)
	05/19/13 16:05 CST	0		Source: Trained Spotter

Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
MCCLAIN COUNTY --- 0.7 N BLANCHARD [35.15, -97.66]				
	05/19/13 16:10 CST		0	Hail (1.25 in)
	05/19/13 16:10 CST		0	Source: COOP Observer
At County Line Rd. and Highway 62.				
CLEVELAND COUNTY --- 1.8 SW MOORE [35.32, -97.51]				
	05/19/13 16:25 CST		0	Hail (1.50 in)
	05/19/13 16:25 CST		0	Source: Storm Chaser
CLEVELAND COUNTY --- NORMAN [35.22, -97.44]				
	05/19/13 16:30 CST		0	Hail (3.00 in)
	05/19/13 16:30 CST		0	Source: Public
Tea cup size hail reported at 12th and Tecumseh. Also golfball size reported at 36th and Tecumseh, and 1.5 inch hail reported at Westheimer Airport.				
MCCLAIN COUNTY --- 1.1 W NEWCASTLE [35.25, -97.62]				
	05/19/13 16:39 CST		0	Hail (1.75 in)
	05/19/13 16:39 CST		0	Source: NWS Employee
CLEVELAND COUNTY --- 4.0 NE NORMAN [35.26, -97.39]				
	05/19/13 16:40 CST		0	Hail (2.00 in)
	05/19/13 16:40 CST		0	Source: NWS Employee
CLEVELAND COUNTY --- 5.0 WNW MOORE [35.37, -97.57]				
	05/19/13 16:45 CST		0	Hail (1.00 in)
	05/19/13 16:45 CST		0	Source: Public
CLEVELAND COUNTY --- NORMAN [35.22, -97.44]				
	05/19/13 16:47 CST		0	Hail (2.50 in)
	05/19/13 16:47 CST		0	Source: Public
Reported at 36th Ave. Nw and Tecumseh.				
CLEVELAND COUNTY --- 5.1 WNW LAKE THUNDERBIRD DAM [35.25, -97.30], 3.9 ESE STELLA [35.31, -97.14]				
	05/19/13 17:00 CST		0	Tornado (EF3, L: 10.50 mi , W: 1150 yd)
	05/19/13 17:20 CST		0	Source: NWS Storm Survey
A long track tornado began in Cleveland County in east Norman to the north of Lake Thunderbird along 96th Avenue to the south of Tecumseh Road. The tornado moved northeast, crossing the eastern arm of Lake Thunderbird. A number of homes were significantly damaged as the tornado moved east-northeast through neighborhoods from near Indian Hills Road and 168th Avenue SE to the Pottawatomie County line. The tornado then moved into Pottawatomie County.				
MCCLAIN COUNTY --- NEWCASTLE [35.25, -97.60]				
	05/19/13 17:00 CST		0	Hail (1.39 in)
	05/19/13 17:00 CST		0	Source: Emergency Manager
CLEVELAND COUNTY --- MOORE [35.34, -97.49]				
	05/19/13 17:02 CST		0	Hail (1.00 in)
	05/19/13 17:02 CST		0	Source: Public
CLEVELAND COUNTY --- 3.0 NNE MOORE [35.38, -97.47]				
	05/19/13 17:12 CST		0	Hail (1.50 in)
	05/19/13 17:12 CST		0	Source: Public
POTTAWATOMIE COUNTY --- 3.5 NNW PINK [35.31, -97.14], 4.2 WSW AYDELOTTE [35.42, -96.98]				
	05/19/13 17:20 CST	2	0	Tornado (EF4, L: 12.50 mi , W: 1500 yd)
	05/19/13 17:50 CST		0	Source: NWS Storm Survey

Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<p>The large tornado moved east-northeast into Pottawatomie County then curving northeast as it approached State Highway 102. The tornado moved through a mobile home park north of Independence Road after crossing State Highway 102. Just northeast of the mobile home park, a permanent home was destroyed with much of the debris blown well to the northeast. It continued northeast crossing Interstate 40 near the intersection of US-177, then curved north-northeast finally dissipating near Wolverine Road and Coker Road. One fatality occurred in the mobile home park, and another man was killed in his vehicle.</p>				
Direct Fatalities: M79MH, M76VE				
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OKLAHOMA COUNTY --- 0.7 N (TIK)TINKER AFB [35.42, -97.39]				
	05/19/13 17:21 CST		0	Hail (1.00 in)
	05/19/13 17:21 CST		0	Source: AWOS
<hr/>				
OKLAHOMA COUNTY --- 1.1 E MIDWEST CITY [35.46, -97.37]				
	05/19/13 17:28 CST		0	Hail (1.00 in)
	05/19/13 17:28 CST		0	Source: Public
Reported at 29th and Douglas.				
<hr/>				
OKLAHOMA COUNTY --- 0.7 S CHOCTAW [35.48, -97.27]				
	05/19/13 17:30 CST		0	Hail (1.25 in)
	05/19/13 17:30 CST		0	Source: Storm Chaser
<hr/>				
POTTAWATOMIE COUNTY --- 4.0 SSE DALE [35.34, -97.02], 2.5 SE DALE [35.36, -97.02]				
	05/19/13 17:40 CST		0	Tornado (EF0, L: 2.00 mi , W: 30 yd)
	05/19/13 17:43 CST		0	Source: NWS Storm Survey
An anticyclonic tornado was observed in RaXPol mobile radar data and an area of tree damage was observed by the storm survey team.				
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POTTAWATOMIE COUNTY --- 4.2 NE JOHNSON [35.46, -96.80], 4.7 NE JOHNSON [35.46, -96.79]				
	05/19/13 17:59 CST		0	Tornado (EF0, L: 0.50 mi , W: 250 yd)
	05/19/13 18:00 CST		0	Source: NWS Storm Survey
A tornado began about just south of the Pottawatomie-Lincoln County line damaging some trees before moving into Lincoln County.				
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LINCOLN COUNTY --- 5.9 WSW PRAGUE [35.46, -96.79], 2.5 N PRAGUE [35.53, -96.70]				
	05/19/13 18:00 CST		0	Tornado (EF2, L: 6.75 mi , W: 450 yd)
	05/19/13 18:12 CST		0	Source: NWS Storm Survey
This tornado moved into Lincoln County from Pottawatomie County and affect areas to the west and north of Prague. Large sections of roof were removed from two homes northwest of Prague.				
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POTTAWATOMIE COUNTY --- 3.6 NNW SHAWNEE [35.38, -96.94]				
	05/19/13 18:10 CST		0	Thunderstorm Wind (MG 53 kt)
	05/19/13 18:10 CST		0	Source: Mesonet
<hr/>				
LINCOLN COUNTY --- 3.6 NE PRAGUE [35.53, -96.65], 5.6 NE PRAGUE [35.55, -96.62]				
	05/19/13 18:17 CST		0	Tornado (EF0, L: 2.12 mi , W: 300 yd)
	05/19/13 18:20 CST		0	Source: NWS Storm Survey
A tornado touched down about 3.5 miles northeast of Prague and caused tree damage before moving into Okfuskee County in the Tulsa County Warning Area (see Storm Data for eastern Oklahoma for information about the continuation of this tornado).				
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LINCOLN COUNTY --- 6.2 N PRAGUE [35.58, -96.69]				
	05/19/13 18:24 CST		0	Hail (1.00 in)
	05/19/13 18:24 CST		0	Source: Public
<hr/>				
KAY COUNTY --- 8.3 E NEWKIRK [36.88, -96.91]				
	05/19/13 19:05 CST		0	Thunderstorm Wind (EG 51 kt)
	05/19/13 19:05 CST		0	Source: Mesonet

Mesonet station at Newkirk recorded a gust 59 mph.

Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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A moist and very unstable airmass was in place over the eastern two thirds of Oklahoma, to the east of a dryline. Additionally, strong wind shear was present as a mid-level jet streak carved into the southern Plains. Several supercells developed along the dryline during the mid and late afternoon hours, producing large hail. Two supercells in central Oklahoma also produced tornadoes, including a few significant, damaging tornadoes.



Photo of tornado west of Shawnee. Photo taken by Bill Hark.

PONTOTOC COUNTY --- 1.3 ENE ADA [34.78, -96.66]

05/20/13 11:30 CST	0		Hail (1.25 in)
05/20/13 11:30 CST	0		Source: Public

GRADY COUNTY --- 3.5 S RUSH SPRINGS [34.73, -97.96]

05/20/13 12:54 CST	0		Hail (1.75 in)
05/20/13 12:54 CST	0		Source: Public

GRADY COUNTY --- 1.4 S RUSH SPRINGS [34.76, -97.96]

05/20/13 12:56 CST	0		Hail (1.00 in)
05/20/13 12:56 CST	0		Source: Emergency Manager

STEPHENS COUNTY --- 6.4 WNW DUNCAN [34.52, -98.07]

05/20/13 13:02 CST	0		Hail (1.00 in)
05/20/13 13:02 CST	0		Source: Amateur Radio

CANADIAN COUNTY --- 0.9 NW YUKON [35.51, -97.75]

05/20/13 13:27 CST	0		Hail (3.25 in)
05/20/13 13:27 CST	0		Source: Newspaper

OKLAHOMA COUNTY --- (OKC)WILL ROGERS APT [35.39, -97.60]

Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	05/20/13 13:28 CST		0	Hail (1.00 in)
	05/20/13 13:28 CST		0	Source: NWS Employee
<hr/>				
GRADY COUNTY --- 3.1 NE BRIDGE CREEK [35.26, -97.68], 3.5 NE BRIDGE CREEK [35.26, -97.67]				
	05/20/13 13:45 CST		5K	Thunderstorm Wind (EG 65 kt)
	05/20/13 13:47 CST		0	Source: NWS Storm Survey
<p>An area of wind damage occurred in far northwestern Grady County into northeastern McClain County before the development of the Newcastle-Moore tornado. In Grady County, the damage was confined to trees.</p>				
<hr/>				
MCCLAIN COUNTY --- 4.1 W NEWCASTLE [35.26, -97.67], 3.0 NW NEWCASTLE [35.28, -97.64]				
	05/20/13 13:47 CST		75K	Thunderstorm Wind (EG 78 kt)
	05/20/13 13:56 CST		0	Source: NWS Storm Survey
<p>An area of wind damage occurred in far northeastern Grady County into northwestern McClain County before the development of the Newcastle-Moore tornado. Tree damage occurred throughout this path, and a number of homes and mobile homes received damage in McClain County.</p>				
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MCCLAIN COUNTY --- 3.7 N NEWCASTLE [35.30, -97.61], 2.8 NW NEWCASTLE [35.28, -97.63]				
	05/20/13 13:56 CST		0	Tornado (EF4, L: 1.85 mi , W: 1280 yd)
	05/20/13 14:04 CST		0	Source: NWS Storm Survey
<p>The violent Newcastle-Moore tornado was first observed developing about one-half mile south of State Highway 37 in northwest Newcastle to the east of Rockwell Avenue. EF4 damage was observed soon after the tornado crossed State Highway 37. The tornado continued to expand in size as it approached the Canadian River and moved into Cleveland County.</p>				
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STEPHENS COUNTY --- 7.0 SSE MARLOW [34.56, -97.91], 5.7 NE DUNCAN [34.57, -97.90]				
	05/20/13 13:58 CST		0	Tornado (EF0, L: 1.00 mi , W: 30 yd)
	05/20/13 14:01 CST		0	Source: Storm Chaser
<p>A brief tornado was reported via Spotter Network near Marlow. No damage was reported and the tornado lasted a very short time.</p>				
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CLEVELAND COUNTY --- 7.0 WSW MOORE [35.30, -97.61], 2.9 WNW STANLEY DRAPER LAKE DAM [35.34, -97.40]				
	05/20/13 14:04 CST	24	2B	Tornado (EF5, L: 12.00 mi , W: 1900 yd)
	05/20/13 14:35 CST		0	Source: NWS Storm Survey

Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<p>The violent Newcastle-Moore tornado moved into Cleveland County from McClain County as it moved northeast across the Canadian River near Interstate 44. The tornado then turned more east and then east-northeast after crossing Interstate 44. Violent EF4 damage was again observed as it began to move into progressively higher density residential areas approaching May Avenue.</p> <p>The center of the large tornado path passed near SW 149th Street and Western Avenue. After crossing Western Avenue, numerous buildings were destroyed and horses killed at Orr Family Farm. Two storage tanks estimated to weigh approximately 10 tons were lifted from Orr Family Farm and landed about one-half mile east. Moving east, the tornado destroyed much of Briarwood Elementary School, where the NWS storm survey team rated damage as EF5. Despite the destruction of this elementary school during school hours, no fatalities occurred at the school. As the tornado continued to move east and east-northeast, it moved through much more densely populated suburban neighborhoods of southwest Oklahoma City and Moore where violent destruction was widespread. The width of EF4 and greater damage was up to 250 yards wide as the tornado moved through neighborhoods east of Western Avenue. The first two fatalities occurred in a house in the neighborhood just east of Briarwood Elementary, with another fatality in a house as the tornado approached Santa Fe Avenue.</p> <p>After crossing Santa Fe Avenue, the tornado moved through more suburban neighborhoods and toward Plaza Towers Elementary School. Damage to the school was extensive and seven children were killed when a wall collapsed at the school. Nine other people were killed in eight different neighborhood homes within one-quarter mile of Plaza Towers Elementary, most occurring just south of the school.</p> <p>The tornado turned northeast as it approached Telephone Road, made a loop near the intersection of Telephone Road and 4th Street, then moved southeast crossing the interstate. Three people were killed when a convenience store along Telephone Road was destroyed. Crossing Telephone Road, the tornado inflicted significant damage to the Moore Medical Center, a post office and numerous businesses along Telephone Road and Interstate 35. Although the tornado was more narrow after crossing Interstate 35, it continued to produce EF4 damage in neighborhoods east of the interstate as it curved east and then again east-northeast. One fatality occurred at a business just east of the interstate, and one final fatality occurred in a home between Eastern Avenue and Bryant Avenue. Consistent EF4 damage continued until the tornado passed SE 4th Street just east of Bryant Avenue. Moving east from Bryant, the tornado continued to produce EF2 damage with isolated EF4 damage noted. The density of housing also decreased east of Bryant as the tornado moved east and east-northeast before dissipating east of Air Depot Blvd. between SE 119th Street and SE 134th Street in southeast Oklahoma City.</p> <p>Overall, over 300 homes experienced EF4/EF5 damage along the tornado path.</p> <p>Direct Fatalities: M63BU, F38PH, F45PH, F40PH, F70PH, F7PH, F4PH, F49PH, F51PH, M46PH, M54PH, M65PH, M39PH, F90PH, F29PS, F49PS, M0PS, F9SC, F9SC, F9SC, F9SC, M8SC, M9SC, M9SC</p>				
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OKLAHOMA COUNTY --- 1.8 SW VALLEY BROOK [35.38, -97.50]				
	05/20/13 14:06 CST	0		Hail (2.50 in)
	05/20/13 14:06 CST	0		Source: Trained Spotter
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STEPHENS COUNTY --- 4.0 SSE MARLOW [34.60, -97.93], 4.0 W BRAY [34.64, -97.89]				
	05/20/13 14:07 CST	20K		Tornado (EF1, L: 4.00 mi , W: 200 yd)
	05/20/13 14:22 CST	0		Source: Storm Chaser
<p>Several storm chasers and spotters observed a tornado that developed southeast of Marlow, and moved northeast to between Marlow and Bray. Minor damage to trees and power lines was reported. No injuries or fatalities occurred.</p>				
<hr/>				
OKLAHOMA COUNTY --- (OKC)WILL ROGERS APT [35.39, -97.60]				
	05/20/13 15:12 CST	0		Hail (2.00 in)
	05/20/13 15:12 CST	0		Source: Official NWS Observations
<p>Reported at Will Rogers World Airport.</p>				
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JEFFERSON COUNTY --- WAURIKA [34.17, -98.00]				
	05/20/13 15:15 CST	0		Hail (1.00 in)
	05/20/13 15:15 CST	0		Source: Public
<hr/>				
GARVIN COUNTY --- 0.7 N WHITEBEAD [34.77, -97.30]				
	05/20/13 15:36 CST	0		Hail (1.75 in)
	05/20/13 15:36 CST	0		Source: Amateur Radio
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LINCOLN COUNTY --- 6.0 NE MEEKER [35.56, -96.81], 3.1 SSE SPARKS [35.57, -96.80]				
	05/20/13 15:40 CST	0		Tornado (EF0, L: 1.21 mi , W: 100 yd)
	05/20/13 15:42 CST	0		Source: NWS Employee
<p>Several reports were received of a brief tornado northeast of Meeker. No damage was reported.</p>				

Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
JEFFERSON COUNTY --- CORNISH [34.16, -97.60]				
	05/20/13 15:45 CST		0	Hail (2.50 in)
	05/20/13 15:45 CST		0	Source: Public
GARVIN COUNTY --- 6.2 W STRATFORD [34.80, -97.07]				
	05/20/13 15:52 CST		0	Hail (1.75 in)
	05/20/13 15:52 CST		0	Source: Public
MURRAY COUNTY --- 2.1 SSE TURNER FALLS [34.40, -97.14]				
	05/20/13 16:43 CST		0	Hail (1.00 in)
	05/20/13 16:43 CST		0	Source: Emergency Manager
CARTER COUNTY --- GENE AUTRY [34.28, -97.04]				
	05/20/13 16:45 CST		25K	Thunderstorm Wind (EG 61 kt)
	05/20/13 16:45 CST		0	Source: Emergency Manager
Roof blown off of Old Gene Autry Gym.				
JOHNSTON COUNTY --- 2.4 WNW WAPANUCKA [34.38, -96.46]				
	05/20/13 17:39 CST		1K	Thunderstorm Wind (MG 70 kt)
	05/20/13 17:39 CST		0	Source: Trained Spotter
A spotter reported branches down in the area.				
COAL COUNTY --- 4.0 WSW LEHIGH [34.45, -96.28], 2.0 E LEHIGH [34.47, -96.18]				
	05/20/13 17:49 CST		30K	Tornado (EF1, L: 5.90 mi , W: 250 yd)
	05/20/13 17:57 CST		0	Source: Emergency Manager
Emergency management and spotters reported a tornado near Lehigh. Damage to trees and outbuildings occurred. Damages estimated.				
BRYAN COUNTY --- 4.2 N DURANT EAKER ARPT [33.99, -96.39]				
	05/20/13 19:00 CST		15K	Thunderstorm Wind (EG 56 kt)
	05/20/13 19:00 CST		0	Source: Emergency Manager
Trees and power lines reported down on the west side of Durant.				
CARTER COUNTY --- 2.4 NNE LONE GROVE [34.21, -97.24]				
	05/20/13 19:05 CST		0	Thunderstorm Wind (MG 54 kt)
	05/20/13 19:05 CST		0	Source: Mesonet
Mesonet WNW of Ardmore reported a gust to 62 mph.				
LOVE COUNTY --- 0.7 S MARIETTA [33.93, -97.12]				
	05/20/13 19:24 CST		0	Hail (1.00 in)
	05/20/13 19:24 CST		0	Source: Emergency Manager
MARSHALL COUNTY --- 3.9 NNE WOODVILLE [34.02, -96.62]				
	05/20/13 20:09 CST		0	Hail (2.75 in)
	05/20/13 20:09 CST		0	Source: Public
BRYAN COUNTY --- 0.6 W COBB [34.08, -96.42]				
	05/20/13 20:58 CST		0	Hail (1.00 in)
	05/20/13 20:58 CST		0	Source: Emergency Manager
At the intersection of SH-22 and Albert Pike Rd.				
COMANCHE COUNTY --- GERONIMO [34.48, -98.38]				
	05/20/13 21:25 CST		0	Hail (1.75 in)
	05/20/13 21:25 CST		0	Source: Fire Department/Rescue

Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
STEPHENS COUNTY --- 1.5 NNW DUNCAN [34.52, -97.97]				
	05/20/13 22:26 CST		0	Hail (1.25 in)
	05/20/13 22:26 CST		0	Source: Law Enforcement
At the Stephens Co. Fairgrounds.				
GARVIN COUNTY --- WYNNEWOOD [34.64, -97.16]				
	05/20/13 22:27 CST		0	Hail (1.00 in)
	05/20/13 22:27 CST		0	Source: Public
Public reported dime to quarter size hail covering the ground.				
STEPHENS COUNTY --- 2.8 N EMPIRE CITY [34.46, -98.04]				
	05/20/13 22:34 CST		0	Hail (1.75 in)
	05/20/13 22:34 CST		0	Source: Broadcast Media
Reported via Kswo.				
PONTOTOC COUNTY --- 1.3 ENE ADA [34.78, -96.66]				
	05/20/13 23:26 CST		0	Hail (1.00 in)
	05/20/13 23:26 CST		0	Source: Broadcast Media
MCCLAIN COUNTY --- 1.1 E PURCELL [35.01, -97.35]				
	05/21/13 03:00 CST		0	Hail (1.00 in)
	05/21/13 03:00 CST		0	Source: NWS Employee
CADDO COUNTY --- 2.3 W CYRIL [34.90, -98.24]				
	05/21/13 04:17 CST		0	Thunderstorm Wind (MG 67 kt)
	05/21/13 04:17 CST		0	Source: Amateur Radio
CADDO COUNTY --- CYRIL [34.90, -98.20]				
	05/21/13 04:20 CST		10K	Thunderstorm Wind (EG 56 kt)
	05/21/13 04:20 CST		0	Source: Emergency Manager
Trees damaged and power lines down.				
CADDO COUNTY --- CYRIL [34.90, -98.20]				
	05/21/13 04:25 CST		0	Hail (1.00 in)
	05/21/13 04:25 CST		0	Source: Amateur Radio
CADDO COUNTY --- CEMENT [34.94, -98.14]				
	05/21/13 04:26 CST		15K	Thunderstorm Wind (EG 61 kt)
	05/21/13 04:26 CST		0	Source: Amateur Radio
Roof was blown off building near Highway 277.				
GRADY COUNTY --- NINNEKAH [34.95, -97.92]				
	05/21/13 04:46 CST		0	Hail (1.75 in)
	05/21/13 04:46 CST		0	Source: Trained Spotter
CADDO COUNTY --- CEMENT [34.94, -98.14]				
	05/21/13 04:49 CST		10K	Thunderstorm Wind (EG 56 kt)
	05/21/13 04:49 CST		0	Source: Amateur Radio
Trees and power lines were reported down.				
GRADY COUNTY --- 2.1 NNW NINNEKAH [34.98, -97.93]				
	05/21/13 04:50 CST		0	Thunderstorm Wind (MG 52 kt)
	05/21/13 04:50 CST		0	Source: Mesonet

Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
GREER COUNTY --- 1.1 E REED [34.90, -99.68]				
	05/21/13 08:53 CST	0		Hail (1.00 in)
	05/21/13 08:53 CST	0		Source: Emergency Manager
GREER COUNTY --- 3.0 SSE BRINKMAN [34.97, -99.50]				
	05/21/13 09:00 CST	0		Hail (1.75 in)
	05/21/13 09:00 CST	0		Source: Emergency Manager
KIOWA COUNTY --- 0.7 S LONE WOLF [34.98, -99.25]				
	05/21/13 09:16 CST	0		Hail (1.75 in)
	05/21/13 09:16 CST	0		Source: Amateur Radio
<p>A tornado outbreak occurred during the afternoon and evening hours of the 20th. Several tornadoes occurred from central Oklahoma down through south central Oklahoma near the Red River. The strongest tornado touched down near Newcastle and traveled through Moore and south Oklahoma City. This tornado caused catastrophic damage in these areas, with a maximum rating of EF-5. The tornado claimed 24 lives and caused billions of dollars in damage. In addition to the tornadoes, large hail and damaging winds cause damage in many areas.</p>				
PONTOTOC COUNTY --- 1.3 ENE ADA [34.78, -96.66]				
	05/20/13 23:30 CST	0		Hail (1.25 in)
	05/20/13 23:30 CST	0		Source: Public
No damage was reported.				
GREER COUNTY --- GRANITE [34.96, -99.38]				
	05/21/13 09:17 CST	0		Hail (1.25 in)
	05/21/13 09:17 CST	0		Source: Public
KIOWA COUNTY --- LONE WOLF [34.99, -99.25]				
	05/21/13 09:19 CST	0		Hail (1.75 in)
	05/21/13 09:19 CST	0		Source: Amateur Radio
CADDO COUNTY --- EAKLY [35.31, -98.56]				
	05/21/13 10:14 CST	0		Hail (1.75 in)
	05/21/13 10:14 CST	0		Source: Amateur Radio
CADDO COUNTY --- BINGER [35.31, -98.34]				
	05/21/13 10:20 CST	0		Hail (1.75 in)
	05/21/13 10:20 CST	0		Source: Amateur Radio
CANADIAN COUNTY --- 12.8 SSW CALUMET [35.43, -98.21]				
	05/21/13 10:40 CST	0		Hail (1.50 in)
	05/21/13 10:40 CST	0		Source: Public
ATOKA COUNTY --- 0.3 WNW ATOKA [34.38, -96.13], 0.3 W ATOKA [34.38, -96.14], 0.1 SW ATOKA [34.38, -96.13], 0.1 NNW ATOKA [34.38, -96.13]				
	05/21/13 13:08 CST	0		Flash Flood (due to Heavy Rain)
	05/21/13 15:08 CST	0		Source: Public
Flooding and road closures reported at the 900 block of W 6th St. and the 700 block of E 6th St. No damage was reported.				
COAL COUNTY --- 4.5 NE COTTONWOOD [34.61, -96.15], 4.5 NE COTTONWOOD [34.61, -96.14], 4.5 NE COTTONWOOD [34.61, -96.14], 4.6 NE COTTONWOOD [34.61, -96.14]				
	05/21/13 13:25 CST	0		Flash Flood (due to Heavy Rain)
	05/21/13 14:25 CST	0		Source: Emergency Manager

Water over highway 37 at the Keel Creek bridge. No damage was reported.

A shortwave trough progressed through the southern Plains during the first part of the day, resulting in thunderstorm development over west Texas early in the morning. These storms intensified and expanded in coverage as they moved eastward into Oklahoma, with

Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
isolated reports of large hail in the most intense cores.				
CANADIAN COUNTY --- 0.9 NW YUKON [35.51, -97.75]				
	05/23/13 05:30 CST		0	Hail (1.00 in)
	05/23/13 05:30 CST		0	Source: Public
CLEVELAND COUNTY --- 8.6 W MOORE [35.36, -97.64]				
	05/23/13 05:42 CST		0	Hail (1.75 in)
	05/23/13 05:42 CST		0	Source: Public
At 104th SW and Council.				
OKLAHOMA COUNTY --- 1.8 SSE WHEATLAND [35.38, -97.64], 1.3 SE (OKC)WILL ROGERS APT [35.38, -97.58], 1.9 NNE (OKC)WILL ROGERS APT [35.41, -97.58], 1.3 WNW WHEATLAND [35.41, -97.67]				
	05/23/13 05:55 CST		30K	Flash Flood (due to Heavy Rain)
	05/23/13 08:55 CST		0	Source: Public
Reports of water over roadways at several locations including S Rockwell and SW 89th, SW 59th and S County Line Rd, and S Portland and SW 89th. Sinkhole opened at intersection of SW 74th and S Rockwell Ave, making the road impassable.				
MCCLAIN COUNTY --- NEWCASTLE [35.25, -97.60]				
	05/23/13 06:02 CST		0	Thunderstorm Wind (EG 56 kt)
	05/23/13 06:02 CST		0	Source: NWS Employee
Estimated 65 mph.				
GARVIN COUNTY --- PAULS VALLEY [34.74, -97.22]				
	05/23/13 06:49 CST		0	Hail (1.00 in)
	05/23/13 06:49 CST		0	Source: Trained Spotter
Dime to quarter size hail reported.				
GARVIN COUNTY --- PAULS VALLEY [34.74, -97.22]				
	05/23/13 06:53 CST		0	Hail (1.75 in)
	05/23/13 06:53 CST		0	Source: Public
Observed 1 mile east of I-35. Also 1.5" hail reported two minutes later.				
OKLAHOMA COUNTY --- 0.5 NNW WHEATLAND [35.41, -97.65], 0.9 ENE WHEATLAND [35.41, -97.64], 1.6 NNE WHEATLAND [35.42, -97.64], 1.8 NW WHEATLAND [35.42, -97.67], 1.3 WNW WHEATLAND [35.41, -97.67]				
	05/23/13 07:00 CST		0	Flash Flood (due to Heavy Rain)
	05/23/13 10:00 CST		0	Source: Broadcast Media
County Line Road flooded between SW 44th and 59th St. No damage reported.				
MURRAY COUNTY --- DAVIS [34.50, -97.12]				
	05/23/13 07:35 CST		0	Hail (2.50 in)
	05/23/13 07:35 CST		0	Source: Emergency Manager
MURRAY COUNTY --- 0.6 W SULPHUR [34.51, -96.98]				
	05/23/13 07:50 CST		0	Hail (1.00 in)
	05/23/13 07:50 CST		0	Source: Public
CANADIAN COUNTY --- 3.0 SSE YUKON [35.46, -97.72], 3.8 SE YUKON [35.46, -97.70], 3.2 NNE MUSTANG [35.43, -97.70], 2.8 N MUSTANG [35.43, -97.72]				
	05/23/13 08:00 CST		75K	Flash Flood (due to Heavy Rain)
	05/23/13 08:00 CST		0	Source: Broadcast Media
Flooding along Sara Rd between SW 15th St. and 29th St. Several cars stranded or inundated. No injuries reported. Damages estimated.				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
CANADIAN COUNTY --- 3.2 NE MUSTANG [35.42, -97.68], 2.6 NNE MUSTANG [35.42, -97.70], 1.7 NE MUSTANG [35.40, -97.70], 2.5 ENE MUSTANG [35.40, -97.68]				
	05/23/13 08:00 CST		0	Flash Flood (due to Heavy Rain)
	05/23/13 11:00 CST		0	Source: Broadcast Media
Flooding reported near SW 44th St. and Morgan Rd between 44th and 59th St. No damage reported.				
CARTER COUNTY --- DICKSON [34.19, -96.99]				
	05/23/13 08:15 CST		0	Thunderstorm Wind (EG 56 kt)
	05/23/13 08:15 CST		0	Source: Amateur Radio
Estimated gust of 65 mph.				
CARTER COUNTY --- DICKSON [34.19, -96.99]				
	05/23/13 08:16 CST		0	Thunderstorm Wind (EG 56 kt)
	05/23/13 08:16 CST		0	Source: Amateur Radio
Estimated gust to 65 mph.				
CANADIAN COUNTY --- 0.9 NW YUKON [35.51, -97.75]				
	05/23/13 08:35 CST		0	Hail (1.00 in)
	05/23/13 08:35 CST		0	Source: Public
BRYAN COUNTY --- 2.9 W MEAD [34.00, -96.56]				
	05/23/13 08:39 CST		0.10K	Thunderstorm Wind (EG 50 kt)
	05/23/13 08:39 CST		0	Source: Trained Spotter
Small tree limbs reported down.				
CLEVELAND COUNTY --- 1.8 N (OUN)NORMAN WESTHEIMER ARPT [35.28, -97.47], 2.0 NNE (OUN)NORMAN WESTHEIMER ARPT [35.28, -97.45], 1.3 NE (OUN)NORMAN WESTHEIMER ARPT [35.26, -97.45], 0.8 N (OUN)NORMAN WESTHEIMER ARPT [35.26, -97.47]				
	05/23/13 09:00 CST		0	Flash Flood (due to Heavy Rain)
	05/23/13 09:00 CST		0	Source: Broadcast Media
Flash flooding along 12th St between Franklin and Tecumseh Rd. No damage reported.				
CLEVELAND COUNTY --- 3.1 S MOORE [35.30, -97.48], 2.7 NNW (OUN)NORMAN WESTHEIMER ARPT [35.29, -97.48], 2.7 N (OUN)NORMAN WESTHEIMER ARPT [35.29, -97.47], 3.1 N (OUN)NORMAN WESTHEIMER ARPT [35.29, -97.47]				
	05/23/13 09:00 CST		0	Flash Flood (due to Heavy Rain)
	05/23/13 12:00 CST		0	Source: Broadcast Media
Water over roadway at Indian Hills and 24th Ave NW north of Norman. No damage reported.				
CLEVELAND COUNTY --- 3.2 SE NORMAN [35.19, -97.39], 3.7 N NOBLE [35.19, -97.38], 3.1 N NOBLE [35.18, -97.38], 3.1 N NOBLE [35.18, -97.39]				
	05/23/13 09:00 CST		0	Flash Flood (due to Heavy Rain)
	05/23/13 12:00 CST		0	Source: Broadcast Media
Water over road at S Highway 9 and 36th Ave SE in Norman. No damage reported.				
Moderate northwest flow aloft existed over Oklahoma, with a diffuse frontal boundary extending west-east across the center of the state. Elevated thunderstorms developed in the early morning before sunrise, primarily near the I-35 corridor, and trained over a region roughly extending from Kingfisher to Durant. Damaging winds and marginally severe hail were reported, along with some flash flooding.				
ROGER MILLS COUNTY --- 4.8 NE DEMPSEY [35.55, -99.75]				
	05/24/13 18:30 CST		0	Thunderstorm Wind (MG 56 kt)
	05/24/13 18:30 CST		0	Source: Mesonet
Mesonet site at Cheyenne measured a gust to 64 mph.				
ROGER MILLS COUNTY --- 0.6 W ROLL [35.78, -99.72]				
	05/24/13 18:53 CST		0	Hail (1.00 in)
	05/24/13 18:53 CST		0	Source: Public

Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Very strong instability combined with marginal wind shear allowed intense multicell storms to develop across western and southern Oklahoma during the afternoon and evening. One storm produced severe hail and wind while tracking northeastward across Roger Mills Co.

GREER COUNTY --- 7.0 N REED [35.00, -99.68]

	05/27/13 17:30 CST	0		Thunderstorm Wind (EG 61 kt)
	05/27/13 17:30 CST	0		Source: Law Enforcement

Law Enforcement estimated 70 mph gusts.

GREER COUNTY --- 1.1 E REED [34.90, -99.68]

	05/27/13 17:33 CST	0		Hail (1.00 in)
	05/27/13 17:33 CST	0		Source: Emergency Manager

BECKHAM COUNTY --- 4.2 ESE ERICK [35.19, -99.80]

	05/27/13 17:45 CST	0		Thunderstorm Wind (MG 56 kt)
	05/27/13 17:45 CST	0		Source: Mesonet

Mesonet site at Erick measured a gust to 65 mph. Also gusts to 60 mph and 55 mph at the next two (5-minute) observations.

BECKHAM COUNTY --- 0.6 E SAYRE [35.30, -99.63]

	05/27/13 17:58 CST	0		Thunderstorm Wind (EG 52 kt)
	05/27/13 17:58 CST	0		Source: Fire Department/Rescue

Fire Department estimated gusts to 60 mph.

ROGER MILLS COUNTY --- 4.8 NE DEMPSEY [35.55, -99.75]

	05/27/13 18:10 CST	0		Thunderstorm Wind (MG 56 kt)
	05/27/13 18:10 CST	0		Source: Mesonet

Mesonet site SW of Cheyenne measured a gust to 64 mph.

WASHITA COUNTY --- 0.9 SW CANUTE [35.41, -99.29]

	05/27/13 18:15 CST	10K		Thunderstorm Wind (EG 56 kt)
	05/27/13 18:15 CST	0		Source: Public

A roof was blown off a barn SW of Canute.

WASHITA COUNTY --- 4.7 SSW (CSM)CLINTON SHERMAN AIRPORT [35.28, -99.24]

	05/27/13 18:17 CST	0		Hail (1.75 in)
	05/27/13 18:17 CST	0		Source: Amateur Radio

CUSTER COUNTY --- 3.6 ENE CLINTON [35.53, -98.91]

	05/27/13 18:18 CST	15K		Thunderstorm Wind (MG 61 kt)
	05/27/13 18:18 CST	0		Source: ASOS

Measured at KCSM. Moderate damage to airport. Doors were blown off a hangar, as well as windows in the control tower. A 400 lb. round bail was also blown into the ceilometer of the ASOS.

WASHITA COUNTY --- 0.6 W BURNS FLAT [35.36, -99.19]

	05/27/13 18:18 CST	0		Thunderstorm Wind (MG 61 kt)
	05/27/13 18:18 CST	0		Source: ASOS

Measured at Clinton-Sherman Airport.

WASHITA COUNTY --- BURNS FLAT [35.36, -99.18]

	05/27/13 18:22 CST	0		Hail (1.75 in)
	05/27/13 18:22 CST	0		Source: Amateur Radio

CUSTER COUNTY --- 2.8 E CLINTON [35.51, -98.92]

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	05/27/13 18:36 CST		40K	Thunderstorm Wind (EG 65 kt)
	05/27/13 18:36 CST		0	Source: Emergency Manager
A 60x30 ft. metal roof was blown off the Whitedog Hill Restaurant near I-40 mile marker 70. Billboard also damaged near the same location.				
WASHITA COUNTY --- 3.5 N BESSIE [35.43, -98.99]				
	05/27/13 18:40 CST		0	Hail (1.75 in)
	05/27/13 18:40 CST		0	Source: Trained Spotter
CUSTER COUNTY --- 1.8 NE CLINTON [35.53, -98.95]				
	05/27/13 18:42 CST		5K	Thunderstorm Wind (EG 56 kt)
	05/27/13 18:42 CST		0	Source: Emergency Manager
Minor damage to a hangar at CLK airport.				
CUSTER COUNTY --- 3.9 E CLINTON [35.51, -98.90]				
	05/27/13 18:42 CST		30K	Thunderstorm Wind (EG 56 kt)
	05/27/13 18:42 CST		0	Source: Emergency Manager
Five power poles down 1 mile N of I-40 exit 71.				
CUSTER COUNTY --- CLINTON [35.51, -98.97]				
	05/27/13 18:42 CST		2K	Thunderstorm Wind (EG 61 kt)
	05/27/13 18:42 CST		0	Source: Emergency Manager
Two trees of around 10" diameter were snapped.				
CUSTER COUNTY --- 1.8 NE CLINTON [35.53, -98.95]				
	05/27/13 18:55 CST		0	Thunderstorm Wind (MG 68 kt)
	05/27/13 18:55 CST		0	Source: ASOS
DEWEY COUNTY --- OAKWOOD [35.93, -98.70]				
	05/27/13 19:12 CST		0	Hail (1.25 in)
	05/27/13 19:12 CST		0	Source: Fire Department/Rescue
The Oakwood Fire Dept. reported quarter to half dollar size hail.				
High-based supercells developed over the Texas Panhandle during the afternoon, then moved northeast into western Oklahoma by early evening. Numerous reports of severe winds (some significant) and large hail were received, particularly around the Elk City-Clinton area.				
HARPER COUNTY --- 1.4 S BUFFALO [36.81, -99.63]				
	05/28/13 16:20 CST		0	Hail (1.00 in)
	05/28/13 16:20 CST		0	Source: Public
HARPER COUNTY --- 11.3 NW BUFFALO [36.95, -99.77]				
	05/28/13 17:45 CST		0	Hail (1.75 in)
	05/28/13 17:45 CST		0	Source: Public
Supercells developed during the late afternoon over southwest Kansas, then progressed east-southeastward into Oklahoma, taking on a more linear structure. A few reports of large hail were received over northwest Oklahoma.				
JACKSON COUNTY --- (LTS)ALTUS AFB [34.66, -99.29]				
	05/29/13 14:30 CST		10K	Thunderstorm Wind (MG 61 kt)
	05/29/13 14:30 CST		0	Source: Other Federal Agency
Gust to 70 mph measured at Altus AFB. A gust to 71 mph was also measured six minutes later by a trained spotter in Altus. Power lines were downed in the city.				
JACKSON COUNTY --- ALTUS [34.64, -99.33]				
	05/29/13 14:36 CST		0	Thunderstorm Wind (MG 62 kt)
	05/29/13 14:36 CST		0	Source: Trained Spotter

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
No damage was reported.				
JACKSON COUNTY --- ALTUS [34.64, -99.33]				
	05/29/13 14:40 CST		10K	Thunderstorm Wind (EG 52 kt)
	05/29/13 14:40 CST		0	Source: Emergency Manager
Several power lines and power poles downed. Damage estimated.				
CANADIAN COUNTY --- 6.0 W CALUMET [35.60, -98.23]				
	05/29/13 16:00 CST		20K	Tornado (EF1, L: 0.20 mi , W: 20 yd)
	05/29/13 16:00 CST		0	Source: Public
A tornado touched down briefly about 6 miles west of Calumet destroying a barn and damaging a house. Damage was estimated.				
COTTON COUNTY --- 3.6 NW WALTERS [34.39, -98.35]				
	05/29/13 16:08 CST		20K	Thunderstorm Wind (EG 61 kt)
	05/29/13 16:08 CST		0	Source: Amateur Radio
A large barn was destroyed.				
COTTON COUNTY --- 3.5 NE WALTERS ARPT [34.40, -98.36]				
	05/29/13 16:10 CST		20K	Thunderstorm Wind (MG 69 kt)
	05/29/13 16:10 CST		0	Source: Mesonet
Mesonet site at Walters measured a gust to 79 mph. A 24x30 ft. barn was airborne near the same location.				
KINGFISHER COUNTY --- OKARCHE [35.73, -97.98]				
	05/29/13 16:19 CST		0	Thunderstorm Wind (MG 50 kt)
	05/29/13 16:19 CST		0	Source: Trained Spotter
CADDO COUNTY --- 2.3 W CYRIL [34.90, -98.24]				
	05/29/13 16:23 CST		0	Thunderstorm Wind (MG 56 kt)
	05/29/13 16:23 CST		0	Source: Amateur Radio
CADDO COUNTY --- 3.2 SSE STECKER [34.92, -98.29]				
	05/29/13 16:25 CST		0	Thunderstorm Wind (MG 50 kt)
	05/29/13 16:25 CST		0	Source: Mesonet
ROGER MILLS COUNTY --- 4.8 NE DEMPSEY [35.55, -99.75]				
	05/29/13 16:25 CST		0	Thunderstorm Wind (MG 50 kt)
	05/29/13 16:25 CST		0	Source: Mesonet
CADDO COUNTY --- 0.7 S ANADARKO [35.07, -98.24]				
	05/29/13 16:30 CST		15K	Thunderstorm Wind (EG 56 kt)
	05/29/13 16:30 CST		0	Source: NWS Employee
Power poles down on the east side of Anadarko.				
COMANCHE COUNTY --- 2.4 ESE LAWTON [34.60, -98.35]				
	05/29/13 16:30 CST		1K	Thunderstorm Wind (EG 61 kt)
	05/29/13 16:30 CST		0	Source: COOP Observer
Observer reported small limbs down, along with nickel size hail.				
CANADIAN COUNTY --- OKARCHE [35.73, -97.98]				
	05/29/13 16:55 CST		0	Thunderstorm Wind (MG 50 kt)
	05/29/13 16:55 CST		0	Source: Trained Spotter
GRADY COUNTY --- 1.8 SW MINCO [35.29, -97.96]				

Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	05/29/13 17:00 CST		0	Thunderstorm Wind (MG 50 kt)
	05/29/13 17:00 CST		0	Source: Mesonet
<hr/>				
LOGAN COUNTY --- 3.5 NE LOVELL [36.10, -97.60]				
	05/29/13 17:00 CST		0	Thunderstorm Wind (MG 57 kt)
	05/29/13 17:00 CST		0	Source: Mesonet
<hr/>				
WOODWARD COUNTY --- 1.8 WSW WOODWARD [36.42, -99.42]				
	05/29/13 17:10 CST		0	Thunderstorm Wind (MG 53 kt)
	05/29/13 17:10 CST		0	Source: Mesonet
<hr/>				
WOODWARD COUNTY --- FORT SUPPLY [36.57, -99.57]				
	05/29/13 17:12 CST		0	Thunderstorm Wind (EG 61 kt)
	05/29/13 17:12 CST		0	Source: Storm Chaser
<hr/>				
A storm chaser estimated 70 mph winds in Ft. Supply.				
<hr/>				
DEWEY COUNTY --- 2.8 N PUTNAM [35.90, -98.97]				
	05/29/13 17:20 CST		0	Thunderstorm Wind (MG 50 kt)
	05/29/13 17:20 CST		0	Source: Mesonet
<hr/>				
OKLAHOMA COUNTY --- 1.1 E MIDWEST CITY [35.46, -97.37]				
	05/29/13 17:37 CST		0	Thunderstorm Wind (EG 61 kt)
	05/29/13 17:37 CST		0	Source: Public
<hr/>				
Public estimated gusts to 70 mph.				
<hr/>				
WOODWARD COUNTY --- 17.6 N MOORELAND ARPT [36.73, -99.13]				
	05/29/13 17:40 CST		0	Thunderstorm Wind (MG 53 kt)
	05/29/13 17:40 CST		0	Source: Mesonet
<hr/>				
CLEVELAND COUNTY --- 2.2 SSW NORMAN [35.19, -97.45]				
	05/29/13 17:42 CST	40K		Tornado (EF1, L: 0.10 mi , W: 10 yd)
	05/29/13 17:42 CST	0		Source: Emergency Manager
<hr/>				
A tornado touched down very briefly in the southwest portion of the city of Norman, damaging a home near Fairfield Drive and Belmont Drive. No other damage occurred. The damage amount was estimated.				
<hr/>				
BECKHAM COUNTY --- 5.5 S ERICK [35.13, -99.87]				
	05/29/13 17:45 CST		0	Hail (1.75 in)
	05/29/13 17:45 CST		0	Source: Emergency Manager
<hr/>				
BECKHAM COUNTY --- 6.6 SSW ERICK [35.12, -99.91]				
	05/29/13 17:54 CST		0	Hail (2.90 in)
	05/29/13 17:54 CST		0	Source: Trained Spotter
<hr/>				
CUSTER COUNTY --- 4.4 NW FOSS RES DAM [35.58, -99.25]				
	05/29/13 17:55 CST		0	Thunderstorm Wind (MG 59 kt)
	05/29/13 17:55 CST		0	Source: Mesonet
<hr/>				
KAY COUNTY --- 3.8 SSE BLACKWELL [36.75, -97.25]				
	05/29/13 17:55 CST		0	Thunderstorm Wind (MG 50 kt)
	05/29/13 17:55 CST		0	Source: Mesonet
<hr/>				
BECKHAM COUNTY --- 0.9 SE ELK CITY [35.40, -99.41]				
	05/29/13 18:05 CST		0	Hail (1.00 in)
	05/29/13 18:05 CST		0	Source: Public
<hr/>				
PAYNE COUNTY --- STILLWATER [36.12, -97.06]				

Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	05/29/13 18:08 CST		0	Thunderstorm Wind (MG 53 kt)
	05/29/13 18:08 CST		0	Source: ASOS
No damage was reported.				
<hr/>				
PAYNE COUNTY --- STILLWATER [36.12, -97.06]				
	05/29/13 18:10 CST		0	Thunderstorm Wind (MG 53 kt)
	05/29/13 18:10 CST		0	Source: Mesonet
Mesonet site and KSWO both reported 61 mph gusts within two minutes of each other.				
<hr/>				
HARMON COUNTY --- 5.6 N MADGE [34.98, -99.97]				
	05/29/13 18:12 CST		0	Hail (2.75 in)
	05/29/13 18:12 CST		0	Source: Public
<hr/>				
GREER COUNTY --- 12.3 NW REED [35.01, -99.87]				
	05/29/13 18:15 CST		0	Hail (2.00 in)
	05/29/13 18:15 CST		0	Source: Amateur Radio
<hr/>				
BECKHAM COUNTY --- 12.4 S ERICK [35.03, -99.87]				
	05/29/13 18:16 CST		0	Hail (2.00 in)
	05/29/13 18:16 CST		0	Source: Trained Spotter
<hr/>				
BECKHAM COUNTY --- 4.2 S NEW LIBERTY [35.30, -99.72]				
	05/29/13 18:18 CST		0	Hail (1.00 in)
	05/29/13 18:18 CST		0	Source: Fire Department/Rescue
<hr/>				
GREER COUNTY --- 12.3 NW REED [35.01, -99.87]				
	05/29/13 18:20 CST		0	Hail (2.50 in)
	05/29/13 18:20 CST		0	Source: Amateur Radio
<hr/>				
BECKHAM COUNTY --- 12.3 S ERICK [35.03, -99.88]				
	05/29/13 18:21 CST		0	Tornado (EF0, L: 0.75 mi , W: 150 yd)
	05/29/13 18:23 CST		0	Source: Storm Chaser
A storm chaser observed a weak tornado in far southern Beckham County near the Harmon and Greer County intersection. A funnel was observed with a rotating column of dust observed. The tornado produced no known damage.				
<hr/>				
BECKHAM COUNTY --- ERICK [35.21, -99.87]				
	05/29/13 18:32 CST		2K	Thunderstorm Wind (EG 52 kt)
	05/29/13 18:32 CST		0	Source: Trained Spotter
Numerous large tree limbs reported down.				
<hr/>				
JEFFERSON COUNTY --- 0.7 N RINGLING [34.19, -97.59]				
	05/29/13 18:50 CST		0	Thunderstorm Wind (MG 52 kt)
	05/29/13 18:50 CST		0	Source: Mesonet
<hr/>				
CUSTER COUNTY --- 4.4 NW FOSS RES DAM [35.58, -99.25]				
	05/29/13 19:25 CST		0	Thunderstorm Wind (MG 50 kt)
	05/29/13 19:25 CST		0	Source: Mesonet
<hr/>				
CUSTER COUNTY --- 0.9 SE WEATHERFORD [35.52, -98.69]				
	05/29/13 21:00 CST		0	Hail (1.00 in)
	05/29/13 21:00 CST		0	Source: Trained Spotter
<hr/>				
WASHITA COUNTY --- 2.8 N CORN [35.42, -98.78]				
	05/29/13 21:00 CST		0	Hail (1.50 in)
	05/29/13 21:00 CST		0	Source: Public

Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
CARTER COUNTY --- 0.6 E ARDMORE [34.17, -97.13]				
	05/29/13 21:35 CST		0	Thunderstorm Wind (MG 57 kt)
	05/29/13 21:35 CST		0	Source: ASOS
PONTOTOC COUNTY --- 5.3 SW FITTSTOWN [34.56, -96.70]				
	05/29/13 23:30 CST		0	Thunderstorm Wind (MG 52 kt)
	05/29/13 23:30 CST		0	Source: Mesonet
BRYAN COUNTY --- 0.7 N SILO [34.05, -96.48]				
	05/30/13 06:55 CST		0	Hail (1.00 in)
	05/30/13 06:55 CST		0	Source: Public
<p>A large upper trough was ejecting out of the Rockies, with a dryline extending from western Nebraska through the Texas Panhandle. Strong wind shear and instability were in place over the southern Plains. Supercells developed along the dryline during the early to mid afternoon, then progressed eastward into western Oklahoma, producing hail, wind and isolated tornadoes. Additional severe thunderstorms developed farther east over western and central Oklahoma during the mid to late afternoon, with severe wind and hail reported.</p>				
CADDO COUNTY --- 2.8 S ANADARKO [35.04, -98.24]				
	05/30/13 12:42 CST		0	Hail (1.75 in)
	05/30/13 12:42 CST		0	Source: Amateur Radio
CADDO COUNTY --- 2.7 SW ANADARKO [35.05, -98.27]				
	05/30/13 13:05 CST		0	Hail (1.50 in)
	05/30/13 13:05 CST		0	Source: Public
GRADY COUNTY --- VERDEN [35.08, -98.09]				
	05/30/13 13:20 CST		0	Hail (1.00 in)
	05/30/13 13:20 CST		0	Source: Public
PAYNE COUNTY --- 1.4 SSW PERKINS [35.96, -97.04], 1.2 SSW PERKINS [35.96, -97.04]				
	05/30/13 14:08 CST		0	Tornado (EF0, L: 0.26 mi , W: 100 yd)
	05/30/13 14:09 CST		0	Source: Broadcast Media
Tornado reported via KWTW. Tornado was brief and only lasted 30 seconds. No damage was reported and the location was estimated.				
COMANCHE COUNTY --- 1.8 WSW ELGIN [34.77, -98.32]				
	05/30/13 14:13 CST		0	Hail (1.75 in)
	05/30/13 14:13 CST		0	Source: Public
COMANCHE COUNTY --- 2.1 N ELGIN [34.81, -98.29]				
	05/30/13 14:15 CST		0	Hail (1.00 in)
	05/30/13 14:15 CST		0	Source: Public
COMANCHE COUNTY --- 3.1 NE LAKE ELLSWORTH DAM [34.82, -98.33]				
	05/30/13 14:15 CST		0	Hail (1.00 in)
	05/30/13 14:15 CST		0	Source: Amateur Radio
PAYNE COUNTY --- 3.5 SW RIPLEY [35.98, -96.94], 3.0 SSW RIPLEY [35.98, -96.93]				
	05/30/13 14:15 CST		0	Tornado (EF0, L: 0.71 mi , W: 100 yd)
	05/30/13 14:16 CST		0	Source: Broadcast Media
Tornado was reported by KWTW. No damage was reported.				
PAYNE COUNTY --- 1.0 ESE RIPLEY [36.01, -96.88], 2.5 E RIPLEY [36.02, -96.85]				
	05/30/13 14:26 CST		0	Tornado (EF0, L: 1.64 mi , W: 200 yd)
	05/30/13 14:30 CST		0	Source: Broadcast Media

Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Tornado was reported by a storm chaser via Spotter Network and by broadcast media. A large revolving bowl wall cloud with debris was noted. No damage was reported.

COMANCHE COUNTY --- FLETCHER [34.82, -98.24]

05/30/13 14:30 CST			0	Hail (1.00 in)
05/30/13 14:30 CST			0	Source: Public

PAYNE COUNTY --- 4.0 NNW CUSHING [36.03, -96.79], 4.1 NNW CUSHING [36.04, -96.78]

05/30/13 14:37 CST			0	Tornado (EF0, L: 0.37 mi , W: 50 yd)
05/30/13 14:38 CST			0	Source: Trained Spotter

Tornado was reported via Spotter Network. Brief spin up tornado near Cushing. No damage was reported.

CADDO COUNTY --- 1.8 ESE WASHITA [35.09, -98.31]

05/30/13 14:40 CST			0	Hail (1.25 in)
05/30/13 14:40 CST			0	Source: Public

COMANCHE COUNTY --- 1.1 E FLETCHER [34.82, -98.22]

05/30/13 14:40 CST			0	Hail (1.00 in)
05/30/13 14:40 CST			0	Source: Public

COMANCHE COUNTY --- 1.1 W FLETCHER [34.82, -98.26]

05/30/13 14:40 CST			0	Hail (1.50 in)
05/30/13 14:40 CST			0	Source: Public

COMANCHE COUNTY --- 1.7 E FLETCHER [34.82, -98.21]

05/30/13 14:40 CST			0	Hail (1.00 in)
05/30/13 14:40 CST			0	Source: Public

COMANCHE COUNTY --- 1.8 ENE ELGIN [34.79, -98.26]

05/30/13 14:40 CST			0	Hail (1.50 in)
05/30/13 14:40 CST			0	Source: Public

COMANCHE COUNTY --- 2.1 NNE ELGIN [34.81, -98.28]

05/30/13 14:40 CST			0	Hail (1.75 in)
05/30/13 14:40 CST			0	Source: Public

COMANCHE COUNTY --- 4.0 E FLETCHER [34.83, -98.17]

05/30/13 14:40 CST			0	Hail (1.75 in)
05/30/13 14:40 CST			0	Source: Public

COMANCHE COUNTY --- 6.0 ENE FLETCHER [34.85, -98.14]

05/30/13 14:40 CST			0	Hail (1.75 in)
05/30/13 14:40 CST			0	Source: Public

COMANCHE COUNTY --- 3.6 NNE STERLING [34.80, -98.15]

05/30/13 14:45 CST			0	Hail (1.00 in)
05/30/13 14:45 CST			0	Source: Public

COMANCHE COUNTY --- 4.8 NE STERLING [34.80, -98.11]

05/30/13 14:45 CST			0	Hail (1.00 in)
05/30/13 14:45 CST			0	Source: Public

COMANCHE COUNTY --- 6.0 NNE STERLING [34.83, -98.13]

05/30/13 14:45 CST			0	Hail (1.00 in)
05/30/13 14:45 CST			0	Source: Public

COMANCHE COUNTY --- 4.0 E FLETCHER [34.82, -98.17]

Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	05/30/13 14:50 CST		0	Hail (1.50 in)
	05/30/13 14:50 CST		0	Source: Public
<hr/>				
COMANCHE COUNTY --- 6.0 NNE STERLING [34.83, -98.13]				
	05/30/13 14:50 CST		0	Hail (1.50 in)
	05/30/13 14:50 CST		0	Source: Public
<hr/>				
COMANCHE COUNTY --- 3.5 WNW FLETCHER [34.83, -98.30]				
	05/30/13 14:51 CST		0	Hail (1.25 in)
	05/30/13 14:51 CST		0	Source: Public
<hr/>				
COMANCHE COUNTY --- 4.5 NE LAKE ELLSWORTH DAM [34.84, -98.32]				
	05/30/13 14:55 CST		0	Hail (1.25 in)
	05/30/13 14:55 CST		0	Source: Public
<hr/>				
COMANCHE COUNTY --- 6.0 ENE FLETCHER [34.85, -98.14]				
	05/30/13 15:00 CST		0	Hail (1.50 in)
	05/30/13 15:00 CST		0	Source: Public
<hr/>				
GRADY COUNTY --- RUSH SPRINGS [34.78, -97.96]				
	05/30/13 15:18 CST		0	Hail (1.00 in)
	05/30/13 15:18 CST		0	Source: Amateur Radio
<hr/>				
CLEVELAND COUNTY --- 2.9 ENE SLAUGHTERVILLE [35.10, -97.28]				
	05/30/13 15:20 CST		0	Hail (1.00 in)
	05/30/13 15:20 CST		0	Source: Public
<hr/>				
CADDO COUNTY --- 5.0 SSE CEMENT [34.87, -98.12], 4.5 SSE CEMENT [34.88, -98.12], 4.7 SSE CEMENT [34.88, -98.11], 5.1 SSE CEMENT [34.87, -98.11]				
	05/30/13 15:28 CST		0	Flood (due to Heavy Rain)
	05/30/13 17:28 CST		0	Source: Trained Spotter
<hr/>				
Spotters reported water over roadways near interstate 44.				
<hr/>				
CLEVELAND COUNTY --- 4.6 E SLAUGHTERVILLE [35.10, -97.25]				
	05/30/13 15:30 CST		0	Hail (1.00 in)
	05/30/13 15:30 CST		0	Source: Public
<hr/>				
CLEVELAND COUNTY --- 4.8 S LAKE THUNDERBIRD DAM [35.15, -97.22]				
	05/30/13 15:33 CST		0	Hail (1.00 in)
	05/30/13 15:33 CST		0	Source: Public
<hr/>				
CLEVELAND COUNTY --- 2.2 NW SLAUGHTERVILLE [35.11, -97.36]				
	05/30/13 15:50 CST		0	Hail (1.00 in)
	05/30/13 15:50 CST		0	Source: Public
<hr/>				
STEPHENS COUNTY --- 4.0 ESE BRAY [34.61, -97.76]				
	05/30/13 16:09 CST		0	Hail (1.00 in)
	05/30/13 16:09 CST		0	Source: Emergency Manager
<hr/>				
STEPHENS COUNTY --- 4.0 ESE BRAY [34.61, -97.76]				
	05/30/13 16:12 CST		0	Hail (1.75 in)
	05/30/13 16:12 CST		0	Source: Emergency Manager
<hr/>				
STEPHENS COUNTY --- 4.0 ESE BRAY [34.61, -97.76]				
	05/30/13 16:27 CST		15K	Hail (4.25 in)
	05/30/13 16:27 CST		0	Source: Storm Chaser

Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Several storm spotters and chasers had vehicle damage.				
STEPHENS COUNTY --- 3.6 SE MARLOW [34.61, -97.92]				
	05/30/13 16:30 CST		30K	Thunderstorm Wind (EG 61 kt)
	05/30/13 16:30 CST		0	Source: Public
Large trees up to 16 inches in diameter snapped. Minor structural damage also occurred to roofs and fences.				
GARVIN COUNTY --- 0.6 NE PERNELL [34.56, -97.50], 1.0 NE PERNELL [34.57, -97.50]				
	05/30/13 16:58 CST		0	Tornado (EF0, L: 0.41 mi , W: 200 yd)
	05/30/13 16:59 CST		0	Source: Trained Spotter
Brief rain wrapped tornado was reported via Spotter Network. No damage was reported.				
MURRAY COUNTY --- 12.7 WNW TURNER FALLS [34.51, -97.35]				
	05/30/13 17:40 CST		0	Hail (1.00 in)
	05/30/13 17:40 CST		0	Source: Emergency Manager
GARVIN COUNTY --- 2.2 SE WHITEBEAD [34.74, -97.27]				
	05/30/13 18:46 CST		0	Thunderstorm Wind (EG 56 kt)
	05/30/13 18:46 CST		0	Source: Trained Spotter
No damage was reported.				
GARVIN COUNTY --- 0.6 E WHITEBEAD [34.76, -97.29]				
	05/30/13 18:47 CST		0	Thunderstorm Wind (EG 52 kt)
	05/30/13 18:47 CST		0	Source: Trained Spotter
No damage was reported.				
GARVIN COUNTY --- 2.1 NNW PAULS VALLEY [34.77, -97.23]				
	05/30/13 18:51 CST		0	Hail (1.00 in)
	05/30/13 18:51 CST		0	Source: Trained Spotter
GARVIN COUNTY --- WYNNEWOOD [34.64, -97.16]				
	05/30/13 19:35 CST		20K	Hail (4.00 in)
	05/30/13 19:35 CST		0	Source: Public
Hail near softball size was reported along with wind gusts of 50 to 60 mph.				
MURRAY COUNTY --- 0.9 NW SULPHUR [34.52, -96.98]				
	05/30/13 20:23 CST		0	Hail (1.75 in)
	05/30/13 20:23 CST		0	Source: Emergency Manager
MURRAY COUNTY --- 3.6 NNE SULPHUR [34.56, -96.95]				
	05/30/13 20:30 CST		0	Thunderstorm Wind (MG 52 kt)
	05/30/13 20:30 CST		0	Source: Mesonet
MURRAY COUNTY --- 4.9 N SULPHUR [34.58, -96.98]				
	05/30/13 20:30 CST		20K	Thunderstorm Wind (EG 65 kt)
	05/30/13 20:30 CST		0	Source: Emergency Manager
One home had significant roof damage. Carport on back of home was also blown away by the winds.				
A stalled frontal boundary and dryline became the focus for scattered supercell thunderstorms during the afternoon hours of the 30th. While a couple of brief tornadoes occurred, very large hail and damaging winds were the main hazards of the day.				
BLAINE COUNTY --- 2.2 NE GREENFIELD [35.75, -98.35]				
	05/31/13 15:59 CST		0	Hail (1.25 in)
	05/31/13 15:59 CST		0	Source: Public

Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Hail ranged in size from quarter to half dollar size. No damage was reported.				
KAY COUNTY --- 4.5 E PONCA CITY [36.71, -97.00]				
	05/31/13 16:00 CST		0	Hail (1.00 in)
	05/31/13 16:00 CST		0	Source: Public
KAY COUNTY --- 4.5 E PONCA CITY [36.71, -97.00]				
	05/31/13 16:00 CST		0	Thunderstorm Wind (EG 56 kt)
	05/31/13 16:00 CST		0	Source: Public
No damage was reported.				
BLAINE COUNTY --- GEARY [35.63, -98.32]				
	05/31/13 16:20 CST		0	Hail (1.75 in)
	05/31/13 16:20 CST		0	Source: Other Federal Agency
Hail reported from NSSL SHAVE project. No damages reported.				
CADDO COUNTY --- 0.9 SE HINTON [35.46, -98.35]				
	05/31/13 16:20 CST		0	Hail (1.25 in)
	05/31/13 16:20 CST		0	Source: Other Federal Agency
Hail was reported via NSSL SHAVE project. No damage was reported.				
KINGFISHER COUNTY --- 1.0 NE OMEGA [35.88, -98.19], 2.0 NE OMEGA [35.89, -98.17]				
	05/31/13 16:35 CST		0	Tornado (EF0, L: 1.00 mi , W: 50 yd)
	05/31/13 16:37 CST		0	Source: Broadcast Media
Broadcast media and Spotter Network reports of brief tornado northeast of Omega. No damage was reported.				
PAYNE COUNTY --- 3.1 WSW LAKE CARL BLACKWELL DAM [36.12, -97.24]				
	05/31/13 16:49 CST		0	Thunderstorm Wind (EG 61 kt)
	05/31/13 16:49 CST		0	Source: Trained Spotter
No damage was reported.				
COMANCHE COUNTY --- 5.3 NNE FAXON [34.53, -98.54]				
	05/31/13 16:50 CST		0	Hail (1.00 in)
	05/31/13 16:50 CST		0	Source: Other Federal Agency
The hail was reported via the SHAVE project.				
CANADIAN COUNTY --- 7.0 S CALUMET [35.50, -98.12], 6.8 S CALUMET [35.50, -98.11]				
	05/31/13 16:55 CST		1K	Tornado (EF0, L: 0.35 mi , W: 30 yd)
	05/31/13 16:56 CST		0	Source: NWS Storm Survey
Storm damage survey and Spotter Network reports confirmed a brief tornado in rural areas south of Calumet. Convergent wheat pattern and minor tree damage were noted.				
COMANCHE COUNTY --- 4.7 SSE LAWTON [34.55, -98.35]				
	05/31/13 17:00 CST		0	Hail (2.50 in)
	05/31/13 17:00 CST		0	Source: Other Federal Agency
The hail was reported via the NSSL shave project.				
CANADIAN COUNTY --- 8.1 S CALUMET [35.48, -98.10], 6.0 SSW RICHLAND [35.50, -97.85]				
	05/31/13 17:03 CST	8	0.30M	Tornado (EF3, L: 16.20 mi , W: 4576 yd)
	05/31/13 17:44 CST		0	Source: NWS Storm Survey

Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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On 31 May, an intense, long-track tornado formed southwest of El Reno. This exceptionally wide tornado took a complex path, rapidly changing in both speed and direction. The tornado spared El Reno and its airport from a direct hit, tracking just south of those locations. The tornado damaged numerous homes along with a few businesses near El Reno. Additionally, intense sub-vortices destroyed crops in numerous fields in the area.

The tornado developed at 6:03 p.m. just northeast of the intersection of Heaston and Reuter roads. Initially, the tornado moved to the southeast at 20 to 25 mph. At 6:09 p.m., the tornado turned to the east, just south of Reno Road between Heaston and Brandley roads. The tornado continued to expand in size just southwest of the El Reno Municipal Air Park, where its speed increased to 30 to 40 mph. As the tornado passed just south of the airport, two satellite tornadoes formed briefly on the west side of the tornado.

At 6:19 p.m. the tornado crossed Highway 81 near Reno Road as it continued to expand in size. There, the tornado abruptly turned to the north, while also accelerating to greater than 50 mph. From 6:24 to 6:26 p.m., the tornado reached its maximum in size and intensity near the intersection of Radio and Reuter roads. The tornado, still very large, slowed down as it approached I-40. From 6:27 to 6:35 the tornado made a loop just north of the interstate while decelerating to less than 10 mph. After 6:35, the tornado moved east once again, and dissipated at 6:42 p.m. near the intersection of I-40 and Banner Road.

Eight people were killed in the tornado, all in vehicles. This included three severe storm researchers who were killed east of US-81 as the tornado overtook their position. Additionally, several other people were killed while attempting to escape the tornado near Highway 81. Finally, two people were killed along I-40 while waiting for the storm to pass.

The monetary damages were estimated. This tornado was well sampled by two separate mobile research radar teams – the University of Oklahoma RaXPol radar, and the Center for Severe Weather Research's Doppler on Wheels. Both radars captured high temporal and spatial resolution data relatively close to the large tornado. Both radars measured winds in the tornado of more than 200 mph. The RaXPol radar data shows winds of at least 295 mph very close to the surface. These intense winds were present in very small sub-vortices within the larger tornado circulation. An analysis of the high resolution radar data combined with the results of the ground damage survey indicates that none of these intense sub-vortices impacted any structures in rural Canadian County. So despite the measured wind speeds, surveyors could not find any damage that would support a rating higher than EF3 based solely on the damage indicators used with the EF scale.

The maximum tornado width was 2.6 miles. However, the damaging wind swath was much larger, as non-tornadic downdraft winds extended for at least a mile south of the tornado. Given the difficulty of separating this damage from tornadic damage, the OU RaXPol radar was used to help determine the width.

Direct Fatalities: M67VE, M35VE, F26VE, M0VE, M32VE, M55VE, M24VE, M45VE

COMANCHE COUNTY --- GERONIMO [34.48, -98.38]

05/31/13 17:10 CST	0	Hail (2.00 in)
05/31/13 17:10 CST	0	Source: Other Federal Agency

The hail was reported via the NSSL shave project.

COMANCHE COUNTY --- 5.0 WSW PUMPKIN CENTER [34.56, -98.29]

05/31/13 17:20 CST	0	Hail (2.50 in)
05/31/13 17:20 CST	0	Source: Other Federal Agency

The hail was reported via the NSSL shave project. No damage was reported.

CANADIAN COUNTY --- 6.3 W YUKON [35.49, -97.85], 4.5 SW YUKON [35.45, -97.79]

05/31/13 17:29 CST	20K	Tornado (EF2, L: 5.00 mi , W: 150 yd)
05/31/13 17:41 CST	0	Source: NWS Storm Survey

The storm damage survey and Doppler on Wheels mobile radar detected a long-lived anticyclonic tornado southwest of Yukon. Some structural damage was noted along with damage to trees. Damages estimated.

COMANCHE COUNTY --- 3.2 ENE GERONIMO [34.50, -98.33]

05/31/13 17:30 CST	0	Hail (2.25 in)
05/31/13 17:30 CST	0	Source: Other Federal Agency

The hail was reported via the NSSL SHAVE project. No damage was reported.

COMANCHE COUNTY --- 4.0 SE LAWTON [34.57, -98.34]

05/31/13 17:30 CST	0	Hail (2.50 in)
05/31/13 17:30 CST	0	Source: Trained Spotter

No damage was reported.

Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
COMANCHE COUNTY --- 4.4 SE LAWTON [34.57, -98.33]				
	05/31/13 17:30 CST		0	Hail (2.50 in)
	05/31/13 17:30 CST		0	Source: Public
No damage was reported.				
COMANCHE COUNTY --- 4.5 SE LAWTON [34.56, -98.34]				
	05/31/13 17:30 CST		0	Hail (2.50 in)
	05/31/13 17:30 CST		0	Source: Other Federal Agency
The hail was reported via the NSSL SHAVE project. No damage was reported.				
COMANCHE COUNTY --- 4.9 SW PUMPKIN CENTER [34.54, -98.27]				
	05/31/13 17:35 CST		0	Hail (2.50 in)
	05/31/13 17:35 CST		0	Source: Other Federal Agency
The hail was reported via the NSSL SHAVE project. No damage was reported.				
COMANCHE COUNTY --- 5.3 ESE LAWTON [34.57, -98.31]				
	05/31/13 17:35 CST		0	Hail (2.75 in)
	05/31/13 17:35 CST		0	Source: Other Federal Agency
The hail was reported via the NSSL SHAVE project. No damage was reported.				
OKLAHOMA COUNTY --- 1.8 NE WARR ACRES [35.54, -97.60]				
	05/31/13 17:45 CST		0	Hail (1.00 in)
	05/31/13 17:45 CST		0	Source: Trained Spotter
The hail was reported at Hefner and Council roads.				
CANADIAN COUNTY --- 3.9 SE YUKON [35.45, -97.70], 4.9 NE MUSTANG [35.45, -97.67]				
	05/31/13 17:51 CST		50K	Tornado (EF0, L: 1.61 mi , W: 500 yd)
	05/31/13 17:54 CST		0	Source: NWS Storm Survey
An relatively long-lived weak tornado began northwest of SW 15th Street and Morgan Road in western Oklahoma City to the southeast of Yukon. The tornado moved just south of east for a little over 1.5 miles and into Oklahoma County. Damage to trees and power lines was noted, as well as very minor structural damage to some homes. Damages estimated.				
OKLAHOMA COUNTY --- 3.6 NNW WHEATLAND [35.45, -97.67], 4.0 N (OKC)WILL ROGERS APT [35.45, -97.60]				
	05/31/13 17:54 CST		0.10M	Tornado (EF1, L: 4.10 mi , W: 600 yd)
	05/31/13 18:09 CST		0	Source: NWS Storm Survey
A tornado moved into Oklahoma County from Canadian County in western Oklahoma City and moved generally east along and near SW 15th Street before dissipating near SW 15th and Meridian Avenue. Buildings, power lines and trees were damaged, including broken windows at a couple of motels along Meridian Avenue. Damage amounts were estimated.				
CANADIAN COUNTY --- 0.9 NW YUKON [35.51, -97.75]				
	05/31/13 17:55 CST		0	Hail (1.75 in)
	05/31/13 17:55 CST		0	Source: Public
No damage was reported.				
CANADIAN COUNTY --- 6.0 S EL RENO [35.44, -97.96], 3.6 N UNION CITY [35.44, -97.95]				
	05/31/13 17:55 CST		0	Tornado (EF0, L: 0.47 mi , W: 50 yd)
	05/31/13 17:57 CST		0	Source: Trained Spotter
A tornado was reported from Spotter Network where a strong radar signal from terminal doppler TOKC was also located. And damage from this tornado would have been indiscernible as this tornado occurred within the damage path of the earlier El Reno EF5 tornado.				
OKLAHOMA COUNTY --- 3.2 NNW WHEATLAND [35.44, -97.67], 2.4 ESE (OKC)WILL ROGERS APT [35.38, -97.56]				

Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	05/31/13 18:00 CST		0	Thunderstorm Wind (EG 83 kt)
	05/31/13 18:30 CST		0	Source: NWS Storm Survey
<p>Wind damage was widespread across southwest Oklahoma City as the tornadic storm produced several surges of intense winds as it moved across the area. The damage was widespread from County Line Road from SW 29th and SW 44th Streets, southeastward across Will Rogers World Airport to along SW 89th Street between Portland Avenue and Pennsylvania Avenue. An outbuilding was destroyed at Western Heights High School near SW 44th Street and Council Road with winds estimated at 95 mph. Winds gusts of 61 knots (70 mph) were measured at 7:05 pm CDT at the Will Rogers Airport (OKC) ASOS with one of these surges, followed by another gust of 62 knots (71 mph) with a second surge at 7:21 pm CDT.</p>				
OKLAHOMA COUNTY --- (OKC)WILL ROGERS APT [35.39, -97.60]				
	05/31/13 18:05 CST		0.10M	Thunderstorm Wind (MG 61 kt)
	05/31/13 18:05 CST		0	Source: ASOS
<p>The wind gusts were caused by rear flank downdraft winds near an associated tornadic circulations. Considerable damage occurred to the ASOS, including full removal from static platform. Widespread damage to trees and a few buildings on the Will Rogers World Airport grounds. Damages estimated.</p>				
PAYNE COUNTY --- 0.6 E (SWO)STILLWATER AIRPORT [36.16, -97.08]				
	05/31/13 18:08 CST		0	Thunderstorm Wind (MG 50 kt)
	05/31/13 18:08 CST		0	Source: ASOS
<p>No damage was reported.</p>				
OKLAHOMA COUNTY --- 3.9 W OKLAHOMA CITY [35.47, -97.58]				
	05/31/13 18:10 CST		0	Thunderstorm Wind (MG 52 kt)
	05/31/13 18:10 CST		0	Source: Mesonet
<p>No damage was reported.</p>				
OKLAHOMA COUNTY --- 4.0 SSE WARR ACRES [35.47, -97.59], 2.8 WSW VALLEY BROOK [35.38, -97.53]				
	05/31/13 18:15 CST		0	Thunderstorm Wind (EG 83 kt)
	05/31/13 18:30 CST		0	Source: NWS Storm Survey
<p>Another area of widespread wind damage occurred with a surge of wind from the tornadic storm across southwest Oklahoma City, from roughly Portland Avenue and Reno Avenue southeast to near SW 83rd Street and Walker Avenue. The most significant damage occurred near SW 79th Street and Western Avenue where winds estimated at 95 mph uprooted large trees and damaged a service station canopy.</p>				
OKLAHOMA COUNTY --- 3.9 W OKLAHOMA CITY [35.47, -97.58]				
	05/31/13 18:20 CST		0	Thunderstorm Wind (MG 63 kt)
	05/31/13 18:20 CST		0	Source: Mesonet
OKLAHOMA COUNTY --- (OKC)WILL ROGERS APT [35.39, -97.60]				
	05/31/13 18:21 CST		0.10M	Thunderstorm Wind (MG 62 kt)
	05/31/13 18:21 CST		0	Source: ASOS
<p>The wind gusts were caused by rear flank downdraft winds near an associated tornadic circulations. Considerable damage occurred to the ASOS, including full removal from static platform. Widespread damage to trees and a few buildings on the Will Rogers World Airport grounds. Damages estimated.</p>				
CLEVELAND COUNTY --- 4.8 WNW MOORE [35.37, -97.56]				
	05/31/13 18:30 CST		20K	Thunderstorm Wind (EG 65 kt)
	05/31/13 18:30 CST		0	Source: NWS Storm Survey
<p>Roof damage was noted to houses along May Avenue from SW 89th Street south to at least SW 96th Street.</p>				
OKLAHOMA COUNTY --- 1.5 ENE VALLEY BROOK [35.41, -97.46], 1.9 ENE VALLEY BROOK [35.41, -97.45]				
	05/31/13 18:35 CST		20K	Tornado (EF0, L: 0.50 mi , W: 200 yd)
	05/31/13 18:37 CST		0	Source: NWS Storm Survey
<p>An EF-0 tornado traveled from Creekwood Terrace southeast to Keith Drive near SE 54th Street. Minor damage to trees and power lines was noted. Damages estimated.</p>				
OKLAHOMA COUNTY --- 3.6 SE BETHANY [35.47, -97.60]				

Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	05/31/13 18:36 CST		0	Hail (1.25 in)
	05/31/13 18:36 CST		0	Source: Trained Spotter

The hail was reported at interstate 40 and Meridian. No damage was reported.

CLEVELAND COUNTY --- 6.7 W MOORE [35.34, -97.61], 5.9 W MOORE [35.35, -97.59]

	05/31/13 18:42 CST		0.10M	Tornado (EF1, L: 1.00 mi , W: 100 yd)
	05/31/13 18:43 CST		0	Source: NWS Storm Survey

Storm damage survey indicated a brief EF-1 tornado developed near in the South Lakes Park area near SW 119th Street and Meridian Avenue. Damage to several homes, trees, and power lines and poles occurred. Damages estimated.

GRADY COUNTY --- 2.2 NNE TUTTLE [35.32, -97.80]

	05/31/13 18:45 CST		0	Tornado (EF0, L: 0.20 mi , W: 50 yd)
	05/31/13 18:45 CST		0	Source: Storm Chaser

Two storm chasers filmed a tornado to the northeast of Tuttle near the Canadian River. The tornado produced no known damage.

CLEVELAND COUNTY --- 0.7 WNW MOORE [35.34, -97.50], 1.0 ESE MOORE [35.34, -97.47]

	05/31/13 18:50 CST		0.10M	Thunderstorm Wind (EG 70 kt)
	05/31/13 19:00 CST		0	Source: NWS Storm Survey

An area of wind damage occurred through Moore. The most significant damage was roughly from an area near NW 5th Street and Dillon Street to east of Main Street and Eastern Avenue. Roof damage occurred to many homes and two strip malls. Damage occurred also to many trees, a few light stands, and a scoreboard at a junior high school football field. Damage amounts are estimated.

GRADY COUNTY --- TUTTLE [35.29, -97.81]

	05/31/13 18:50 CST		10K	Thunderstorm Wind (EG 65 kt)
	05/31/13 18:50 CST		0	Source: Emergency Manager

Wind damage occurred in and near Tuttle. Damage was reported to barns, trees, and at least one home suffered roof damage.

OKLAHOMA COUNTY --- 3.0 ENE (OKC)WILL ROGERS APT [35.41, -97.55], 2.9 W VALLEY BROOK [35.40, -97.53]

	05/31/13 18:53 CST		80K	Tornado (EF1, L: 1.13 mi , W: 300 yd)
	05/31/13 18:55 CST		0	Source: NWS Storm Survey

A tornado touched down just west of SW 59th Street and Pennsylvania Avenue in southwest Oklahoma City, and moved east to just southwest of SW 59th Street and Western Avenue. Roof and tree damage occurred with this tornado. Damage amounts are estimated.

CLEVELAND COUNTY --- 3.6 WNW MOORE [35.36, -97.55]

	05/31/13 19:00 CST		25K	Thunderstorm Wind (EG 61 kt)
	05/31/13 19:00 CST		0	Source: Public

Extensive tree damage occurred with several trees snapped. One large tree was also snapped at the base. Damages estimated.

CLEVELAND COUNTY --- MOORE [35.34, -97.49]

	05/31/13 19:00 CST		0	Hail (1.00 in)
	05/31/13 19:00 CST		0	Source: Public

OKLAHOMA COUNTY --- 0.4 W OKLAHOMA CITY [35.47, -97.52], 0.7 SW OKLAHOMA CITY [35.46, -97.52], 0.6 SE OKLAHOMA CITY [35.46, -97.50], 0.2 ENE OKLAHOMA CITY [35.47, -97.51]

	05/31/13 19:00 CST		30K	Flash Flood (due to Heavy Rain)
	05/31/13 22:00 CST		0	Source: Broadcast Media

Reports of tunnels flooding in downtown Oklahoma City. Minor damage was reported with no injuries. Damages estimated.

OKLAHOMA COUNTY --- 0.7 N (TIK)TINKER AFB [35.42, -97.39]

	05/31/13 19:01 CST		0	Thunderstorm Wind (MG 54 kt)
	05/31/13 19:01 CST		0	Source: ASOS

No damage was reported.

Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
OKLAHOMA COUNTY --- 2.4 N (OKC)WILL ROGERS APT [35.42, -97.61], 2.4 NNE (OKC)WILL ROGERS APT [35.42, -97.58], 3.4 NNE (OKC)WILL ROGERS APT [35.43, -97.57], 3.8 WSW OKLAHOMA CITY [35.46, -97.58], 4.2 SSE BETHANY [35.46, -97.61]				
	05/31/13 19:06 CST	5	50K	Flash Flood (due to Heavy Rain)
	05/31/13 22:06 CST		0	Source: Storm Chaser
Several vehicles were partially submerged in floodwaters. Five individuals seeking shelter in a drainage ditch were swept away and killed. Damage estimated.				
Direct Fatalities: M21OT, M3OT, F0OT, F3OT, F4OT				
OKLAHOMA COUNTY --- 0.7 N (TIK)TINKER AFB [35.42, -97.39]				
	05/31/13 19:14 CST		0	Thunderstorm Wind (MG 76 kt)
	05/31/13 19:14 CST		0	Source: ASOS
No damage was reported.				
CLEVELAND COUNTY --- 3.0 SSE NORMAN [35.18, -97.42]				
	05/31/13 19:24 CST		2K	Thunderstorm Wind (MG 57 kt)
	05/31/13 19:24 CST		0	Source: Official NWS Observations
The wind gust was measured at the NWS forecast office in Norman. Light tree damage was noted. But no significant damage occurred.				
OKLAHOMA COUNTY --- (PWA)WILEY POST APT [35.53, -97.65]				
	05/31/13 19:31 CST		0	Thunderstorm Wind (MG 50 kt)
	05/31/13 19:31 CST		0	Source: ASOS
No damage was reported.				
GRADY COUNTY --- 3.9 SSE BRIDGE CREEK [35.18, -97.69]				
	05/31/13 19:36 CST		0	Hail (1.75 in)
	05/31/13 19:36 CST		0	Source: Amateur Radio
The hail was reported at mile marker 102 along the H.E. Bailey Turnpike. No damage was reported.				
GRADY COUNTY --- 3.6 SE BRIDGE CREEK [35.19, -97.68]				
	05/31/13 19:45 CST		0	Hail (1.75 in)
	05/31/13 19:45 CST		0	Source: Amateur Radio
No damage was reported.				
CLEVELAND COUNTY --- 5.0 N MOORE [35.41, -97.47], 5.7 NNE MOORE [35.41, -97.43], 4.8 NE MOORE [35.39, -97.44], 3.9 NNE MOORE [35.39, -97.46]				
	05/31/13 19:55 CST		0.10M	Flash Flood (due to Heavy Rain)
	05/31/13 23:55 CST		0	Source: Trained Spotter
Numerous vehicles submerged in water along Reno Ave. Damage estimated.				
MCCLAIN COUNTY --- NEWCASTLE [35.25, -97.60]				
	05/31/13 19:55 CST		0	Hail (1.25 in)
	05/31/13 19:55 CST		0	Source: NWS Employee
Nickel to half dollar size hail was reported. No damage was reported.				
MCCLAIN COUNTY --- NEWCASTLE [35.25, -97.60]				
	05/31/13 19:55 CST		0	Thunderstorm Wind (EG 52 kt)
	05/31/13 19:55 CST		0	Source: NWS Employee
No damage was reported.				
OKLAHOMA COUNTY --- 1.9 SSE WARR ACRES [35.50, -97.61], 2.0 SSE WARR ACRES [35.49, -97.60], 1.8 SSE WARR ACRES [35.50, -97.60], 1.7 SSE WARR ACRES [35.50, -97.61]				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	05/31/13 20:00 CST	7	0	Flash Flood (due to Heavy Rain)
	05/31/13 22:00 CST		0	Source: Emergency Manager

Several individuals were swept under a roadway and killed while seeking shelter in a storm drain. No damage was reported.

Direct Fatalities: F34OT, F34OT, F7OT, M4OT, M8OT, M33OT, M4OT

POTTAWATOMIE COUNTY --- 0.6 W SHAWNEE [35.33, -96.93]

05/31/13 20:03 CST	0	Hail (1.00 in)
05/31/13 20:03 CST	0	Source: Trained Spotter

POTTAWATOMIE COUNTY --- 3.6 NNW SHAWNEE [35.38, -96.94]

05/31/13 20:10 CST	0	Thunderstorm Wind (MG 54 kt)
05/31/13 20:10 CST	0	Source: Mesonet

No damage was reported.

CLEVELAND COUNTY --- 2.7 NE NOBLE [35.17, -97.36]

05/31/13 20:15 CST	0	Hail (1.75 in)
05/31/13 20:15 CST	0	Source: NWS Employee

No damage was reported.

CLEVELAND COUNTY --- 2.8 N NOBLE [35.18, -97.39]

05/31/13 20:17 CST	0	Hail (1.00 in)
05/31/13 20:17 CST	0	Source: Trained Spotter

CLEVELAND COUNTY --- 3.5 N SLAUGHTERVILLE [35.14, -97.32]

05/31/13 20:20 CST	0	Hail (1.75 in)
05/31/13 20:20 CST	0	Source: Public

No damage was reported.

CLEVELAND COUNTY --- 5.8 ENE SLAUGHTERVILLE [35.13, -97.24]

05/31/13 20:23 CST	0	Hail (1.75 in)
05/31/13 20:23 CST	0	Source: NWS Employee

The hail fell a half mile north and west of the intersection of southeast 108th St. and Maguire road. No damage was reported.

GRADY COUNTY --- 2.7 NE TUTTLE [35.32, -97.78]

05/31/13 20:32 CST	0	Hail (1.00 in)
05/31/13 20:32 CST	0	Source: Trained Spotter

MCCLAIN COUNTY --- 1.3 NW NEWCASTLE [35.26, -97.62], 1.3 NE NEWCASTLE [35.26, -97.58], 1.1 ESE NEWCASTLE [35.24, -97.58], 1.1 WSW NEWCASTLE [35.24, -97.62]

05/31/13 20:35 CST	0	Flash Flood (due to Heavy Rain)
05/31/13 23:59 CST	0	Source: Emergency Manager

Numerous roads closed in and around Newcastle. No damage was reported.

OKLAHOMA COUNTY --- 0.8 SW DEL CITY [35.44, -97.45], 1.4 SSW DEL CITY [35.43, -97.45], 1.3 S DEL CITY [35.43, -97.44], 0.5 SSE DEL CITY [35.44, -97.44]

05/31/13 20:50 CST	40K	Flash Flood (due to Heavy Rain)
05/31/13 23:59 CST	0	Source: Fire Department/Rescue

Street flooding and vehicles stranded at southeast 29th St. and Sunnyslane Rd. Damage estimated.

OKLAHOMA COUNTY --- 1.8 NE (PWA)WILEY POST APT [35.55, -97.63], 2.0 N WARR ACRES [35.55, -97.62], 1.7 N WARR ACRES [35.54, -97.62], 1.6 NE (PWA)WILEY POST APT [35.54, -97.63]

05/31/13 20:53 CST	0	Flash Flood (due to Heavy Rain)
05/31/13 23:59 CST	0	Source: Trained Spotter

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Flooding reported along 7300 block of Shoreline Dr. No damage was reported.				
POTTAWATOMIE COUNTY --- 0.6 E ASHER [34.99, -96.91]				
	05/31/13 20:55 CST		0	Hail (2.50 in)
	05/31/13 20:55 CST		0	Source: Emergency Manager
The hail was reported along highway 39. No damage was reported.				
POTTAWATOMIE COUNTY --- 4.6 E ST LOUIS [35.06, -96.78]				
	05/31/13 21:05 CST		0	Hail (1.75 in)
	05/31/13 21:05 CST		0	Source: Public
No damage was reported.				
OKLAHOMA COUNTY --- 3.3 WSW VALLEY BROOK [35.38, -97.53], 3.5 WSW VALLEY BROOK [35.37, -97.53], 3.1 WSW VALLEY BROOK [35.38, -97.53], 3.0 WSW VALLEY BROOK [35.38, -97.53]				
	05/31/13 21:34 CST		0	Flash Flood (due to Heavy Rain)
	05/31/13 22:34 CST		0	Source: Broadcast Media
Media reports of high water rescue at southwest 86th and Western. No damage or injuries reported.				
CANADIAN COUNTY --- 3.8 SSE PIEDMONT [35.59, -97.72]				
	05/31/13 21:42 CST		0	Hail (1.00 in)
	05/31/13 21:42 CST		0	Source: Public
CANADIAN COUNTY --- 2.9 ESE RICHLAND [35.57, -97.75]				
	05/31/13 21:45 CST		0	Hail (1.25 in)
	05/31/13 21:45 CST		0	Source: Public
No damage was reported.				
OKLAHOMA COUNTY --- 2.1 SSW CHOCTAW [35.46, -97.28]				
	05/31/13 21:55 CST		0	Hail (1.25 in)
	05/31/13 21:55 CST		0	Source: Trained Spotter
The hail was reported at East Reno and South Henney roads. No damage was reported.				
OKLAHOMA COUNTY --- 1.4 S CHOCTAW [35.47, -97.27]				
	05/31/13 22:27 CST		0	Hail (1.25 in)
	05/31/13 22:27 CST		0	Source: Trained Spotter
At Ne 10th and N Henney Rd.				
OKLAHOMA COUNTY --- 0.7 S CHOCTAW [35.48, -97.27]				
	05/31/13 22:30 CST		0	Thunderstorm Wind (EG 52 kt)
	05/31/13 22:30 CST		0	Source: Public
No damage was reported.				
OKLAHOMA COUNTY --- 5.7 N HARRAH [35.57, -97.18], 5.7 N HARRAH [35.57, -97.18], 5.6 N HARRAH [35.57, -97.17], 5.7 N HARRAH [35.57, -97.18]				
	05/31/13 23:00 CST	1	15K	Flash Flood (due to Heavy Rain)
	05/31/13 23:59 CST		0	Source: Emergency Manager

Water over a bridge on Dobbs Rd. north of NE 93rd St. One fatality occurred when a car was swept off the road in the floodwaters. No other injuries were reported. Damage estimated.

Direct Fatalities: M65VE

A tornado outbreak occurred during the late afternoon and early evening hours of the 31st. A stalled front and deeply mixed dryline served as a focus for thunderstorm development. The front/dryline triple point was where the most intense supercells initiated. These storms traveled eastward, eventually impacting the Oklahoma City metropolitan area. Several tornadoes occurred, including the El Reno tornado, which unfortunately claimed several lives. In addition to the tornado, very large hail and heavy rains led to flash flooding in

Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Oklahoma City. This flash flood event ranked as one of the worst in Oklahoma City history in terms of fatalities and damages to property. The event lasted well into the overnight hours.



View of the tornado during its earlier stages. Photo by Jeff Snyder.

TEXAS, Western North

(TX-Z083) HARDEMAN, (TX-Z084) FOARD, (TX-Z085) WILBARGER, (TX-Z086) WICHITA, (TX-Z087) KNOX, (TX-Z088) BAYLOR, (TX-Z089) ARCHER, (TX-Z090) CLAY

05/01/13 00:00 CST	0	Drought
05/31/13 23:59 CST	0	

With only a few rainfall events across western north Texas during May, extreme to exceptional drought continued over the region.

WILBARGER COUNTY --- 7.7 ESE GRAYBACK [33.96, -99.04]

05/01/13 17:00 CST	0	Hail (1.25 in)
05/01/13 17:00 CST	0	Source: Public

Reported via Nssl Shave Project.

BAYLOR COUNTY --- 4.1 W LAKE KEMP DAM [33.76, -99.22]

05/01/13 17:20 CST	0	Hail (1.00 in)
05/01/13 17:20 CST	0	Source: COOP Observer

BAYLOR COUNTY --- 7.8 ENE MABELLE [33.70, -99.00]

05/01/13 18:00 CST	0	Hail (1.75 in)
05/01/13 18:00 CST	0	Source: Trained Spotter

A strong cold front pushed through the southern Plains during the day. Ahead of the front, thunderstorms developed in an environment of moderate to strong instability and weak deep-layer wind shear. These storms produced several reports of marginally-severe hail.

Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
HARDEMAN COUNTY --- QUANAH [34.30, -99.74]				
	05/09/13 18:00 CST	0		Hail (1.50 in)
	05/09/13 18:00 CST	0		Source: Fire Department/Rescue
<p>Moist and unstable air was in place across north Texas ahead of a weak frontal boundary. Several rounds of thunderstorms occurred throughout the afternoon and evening across western north Texas. Most were sub-severe, due to weak deep-layer wind shear, but one yielded a large hail report.</p>				
CLAY COUNTY --- 2.8 SSW VASHTI [33.52, -98.05]				
	05/15/13 17:15 CST	0		Hail (1.75 in)
	05/15/13 17:15 CST	0		Source: Amateur Radio
WICHITA COUNTY --- 2.2 SW WICHITA FALLS [33.89, -98.52]				
	05/15/13 18:50 CST	0		Hail (1.00 in)
	05/15/13 18:50 CST	0		Source: Amateur Radio
<p>Quarter size hail. Continued for at least 8 minutes.</p>				
WICHITA COUNTY --- 2.2 SW WICHITA FALLS [33.89, -98.52]				
	05/15/13 18:58 CST	0		Hail (1.00 in)
	05/15/13 18:58 CST	0		Source: Amateur Radio
<p>Pea to quarter size hail lasted several minutes.</p>				
ARCHER COUNTY --- 6.0 SSW WINDTHORST [33.50, -98.48]				
	05/15/13 19:20 CST	0		Hail (1.00 in)
	05/15/13 19:20 CST	0		Source: Public
<p>Quarter size hail reported.</p> <p>A few supercells developed over western north Texas during the late afternoon in an environment of moderate instability and moderate vertical shear, producing large hail.</p>				
KNOX COUNTY --- GOREE [33.47, -99.52]				
	05/18/13 19:22 CST	0		Hail (1.50 in)
	05/18/13 19:22 CST	0		Source: Emergency Manager
WILBARGER COUNTY --- 0.7 S VERNON WILBARGER ARP [34.21, -99.28]				
	05/18/13 19:35 CST	0		Thunderstorm Wind (MG 57 kt)
	05/18/13 19:35 CST	0		Source: AWOS
WILBARGER COUNTY --- ODELL [34.35, -99.42]				
	05/18/13 19:56 CST	0		Hail (1.50 in)
	05/18/13 19:56 CST	0		Source: Emergency Manager
<p>A classic late Spring severe weather setup unfolded over the southern Plains. Rich low-level moisture and very warm temperatures contributed to high instability, while an incoming shortwave trough yielded deep-layer shear sufficient for supercells during the afternoon. A couple supercells moved northeast over western north Texas during the early evening hours, producing severe hail and wind.</p>				
WICHITA COUNTY --- 0.9 SW (SPS)SHEPPARD AFB [33.98, -98.50]				
	05/20/13 13:20 CST	0		Hail (1.75 in)
	05/20/13 13:20 CST	0		Source: Trained Spotter
WICHITA COUNTY --- 0.6 W WICHITA FALLS [33.91, -98.50]				
	05/20/13 15:40 CST	0		Hail (1.75 in)
	05/20/13 15:40 CST	0		Source: Public

Continued for at least 13 minutes.

Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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WICHITA COUNTY --- 0.6 W WICHITA FALLS [33.91, -98.50]

05/20/13 15:53 CST	0	Hail (1.75 in)
05/20/13 15:53 CST	0	Source: Public

The hail was reported 5 miles west of Fisher road. No damage information was reported.

CLAY COUNTY --- HENRIETTA [33.82, -98.19]

05/20/13 17:30 CST	0	Hail (1.00 in)
05/20/13 17:30 CST	0	Source: Amateur Radio

A dryline extended from northeast to southwest through far western north Texas. To its east, supercells developed during the late afternoon hours, resulting in large hail.

(TX-Z085) WILBARGER

05/23/13 17:55 CST	0	High Wind (MAX 54 kt)
05/23/13 17:55 CST	0	

Strong outflow winds emanated from the north side a thunderstorm complex moving through the Abilene to Throckmorton region, resulting in severe gusts farther north.