

Storm Data and Unusual Weather Phenomena - July 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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-Z014) ROGER MILLS, (OK-Z015) DEWEY, (OK-Z016) CUSTER, (OK-Z017) BLAINE, (OK-Z021) BECKHAM, (OK-Z022) WASHITA, (OK-Z023) CADDO, (OK-Z033) HARMON, (OK-Z034) GREER, (OK-Z035) KIOWA, (OK-Z036) JACKSON, (OK-Z037) TILLMAN, (OK-Z038) COMANCHE, (OK-Z039) STEPHENS, (OK-Z044) COTTON, (OK-Z045) JEFFERSON, (OK-Z047) JOHNSTON, (OK-Z050) LOVE, (OK-Z051) MARSHALL				
	07/01/13 00:00 CST		0	Drought
	07/31/13 23:59 CST		0	
Precipitation for the month of July was generally near to above average throughout Oklahoma, with the area of drought further retracting in northern, western and southern Oklahoma. For the first time in a full year, D4 drought was eliminated from all the OUN CWA counties of Oklahoma.				
OKLAHOMA COUNTY --- 1.1 E EDMOND [35.65, -97.46]				
	07/10/13 14:30 CST		1K	Thunderstorm Wind (EG 56 kt)
	07/10/13 14:30 CST		0	Source: Public
Numerous large tree branches down in Edmond, with gusts estimated at 60-65 mph.				
OKLAHOMA COUNTY --- 2.8 W ARCADIA LAKE [35.65, -97.42]				
	07/10/13 14:50 CST		0	Thunderstorm Wind (EG 52 kt)
	07/10/13 14:50 CST		0	Source: Trained Spotter
At I-35 and 2nd St.				
SEMINOLE COUNTY --- 4.9 N SCHOOLTON [35.46, -96.45]				
	07/10/13 15:30 CST		5K	Thunderstorm Wind (EG 56 kt)
	07/10/13 15:30 CST		0	Source: Trained Spotter
Tree and structural damage at Sweet Hilltop Farm and Nursery. Time was estimated.				
SEMINOLE COUNTY --- CROMWELL [35.34, -96.45]				
	07/10/13 16:15 CST		0	Thunderstorm Wind (EG 52 kt)
	07/10/13 16:15 CST		0	Source: Public
Public estimated a wind gust to 60 mph.				
MAJOR COUNTY --- 1.1 W FAIRVIEW [36.27, -98.50]				
	07/10/13 17:35 CST		0	Thunderstorm Wind (MG 63 kt)
	07/10/13 17:35 CST		0	Source: Mesonet
WOODWARD COUNTY --- 7.8 ESE MUTUAL [36.19, -99.04]				
	07/10/13 17:45 CST		0	Thunderstorm Wind (MG 50 kt)
	07/10/13 17:45 CST		0	Source: Mesonet
Scattered pulse thunderstorms developed during the afternoon across Oklahoma in an environment of weak shear and low boundary layer relative humidity. As a result, strong wind gusts were the primary severe threat, with several reports across the northern half of Oklahoma.				
WASHITA COUNTY --- 4.0 WNW BESSIE [35.41, -99.05]				
	07/11/13 14:45 CST		0	Thunderstorm Wind (MG 63 kt)
	07/11/13 14:45 CST		0	Source: Mesonet
Mesonet site at Bessie recorded a gust to 72 mph at 2:45pm LST. Also gusted to 69 and 60 mph at 2:50pm and 2:55pm LST, respectively.				
KIOWA COUNTY --- 10.0 NW LONE WOLF [35.11, -99.35]				
	07/11/13 14:55 CST		0	Thunderstorm Wind (MG 50 kt)
	07/11/13 14:55 CST		0	Source: Mesonet

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
WASHITA COUNTY --- 3.4 E BURNS FLAT [35.36, -99.12]				
	07/11/13 15:02 CST		15K	Thunderstorm Wind (EG 56 kt)
	07/11/13 15:02 CST		0	Source: Public
Power poles reported down, along with a 2.5-foot diameter tree.				
WASHITA COUNTY --- 4.0 WNW BESSIE [35.41, -99.05]				
	07/11/13 15:15 CST		0	Thunderstorm Wind (MG 55 kt)
	07/11/13 15:15 CST		0	Source: Mesonet
KIOWA COUNTY --- GOTEBO [35.07, -98.87]				
	07/11/13 16:27 CST		0	Thunderstorm Wind (EG 52 kt)
	07/11/13 16:27 CST		0	Source: Public
Estimated at the 54 truck stop.				
LINCOLN COUNTY --- 3.6 WSW SPARKS [35.59, -96.88]				
	07/11/13 18:25 CST		0	Hail (1.00 in)
	07/11/13 18:25 CST		0	Source: Trained Spotter
LINCOLN COUNTY --- 5.8 NNW MEEKER [35.58, -96.92]				
	07/11/13 18:35 CST		1K	Thunderstorm Wind (EG 56 kt)
	07/11/13 18:35 CST		0	Source: Trained Spotter
Tree downed and blocking road on Highway 18B, four miles west of the intersection with Highway 18A.				
Scattered pulse thunderstorms developed during the afternoon across Oklahoma in an environment of weak shear and low boundary layer relative humidity. Several reports of severe wind gusts were received across western and central Oklahoma, plus one hail report in central Oklahoma.				
HUGHES COUNTY --- STUART [34.90, -96.10]				
	07/14/13 17:52 CST		0	Hail (1.00 in)
	07/14/13 17:52 CST		0	Source: Public
HUGHES COUNTY --- 4.3 NNE ATWOOD [35.02, -96.32]				
	07/14/13 18:10 CST		0	Hail (1.25 in)
	07/14/13 18:10 CST		0	Source: Public
Hail was covering the ground.				
LINCOLN COUNTY --- 0.7 N TRYON [35.88, -96.96]				
	07/14/13 18:52 CST		0	Hail (1.00 in)
	07/14/13 18:52 CST		0	Source: Emergency Manager
During the afternoon, multicell thunderstorms developed across north-central and northeast Oklahoma. This occurred in an environment of moderate vertical shear and high boundary layer relative humidity. These cells eventually congealed into a linear complex and moved south across I-40. Marginally severe hail reports were received from the eastern portions of central Oklahoma.				
OKLAHOMA COUNTY --- 2.4 WSW NICHOLS HILLS [35.54, -97.58]				
	07/16/13 17:30 CST		0	Thunderstorm Wind (EG 52 kt)
	07/16/13 17:30 CST		0	Source: Trained Spotter
Trained spotter estimated a gust to 60 mph.				
OKLAHOMA COUNTY --- 0.7 N BETHANY [35.52, -97.64]				
	07/16/13 17:34 CST		0	Thunderstorm Wind (MG 56 kt)
	07/16/13 17:34 CST		0	Source: AWOS
KPWA measured a gust to 64 mph.				
OKLAHOMA COUNTY --- 3.5 N (PWA)WILEY POST APT [35.58, -97.64]				

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	07/16/13 17:34 CST		0.50K	Hail (1.25 in)
	07/16/13 17:34 CST		0	Source: Public

Tree limbs 2" in diameter were downed.

OKLAHOMA COUNTY --- 2.2 NE WARR ACRES [35.54, -97.59]

	07/16/13 17:35 CST		0	Hail (1.00 in)
	07/16/13 17:35 CST		0	Source: NWS Employee

At Nw 63rd and Nw Expressway.

OKLAHOMA COUNTY --- 3.5 N (PWA)WILEY POST APT [35.58, -97.64]

	07/16/13 17:45 CST		0	Hail (1.00 in)
	07/16/13 17:45 CST		0	Source: NWS Employee

Hail lasted for several minutes.

Multicell thunderstorms developed over central and eastern Oklahoma during the afternoon. Due to an anomalous pattern, with a retrograding upper low centered over New Mexico, these storms moved northwestward. During the 5:00pm LST hour, one complex of storms moved over Oklahoma City, and several severe reports were received.

KAY COUNTY --- BLACKWELL [36.80, -97.28]

	07/20/13 20:24 CST		0	Thunderstorm Wind (MG 63 kt)
	07/20/13 20:24 CST		0	Source: Trained Spotter

Multicell thunderstorms developed across Kansas and far northern Oklahoma in an environment characterized by very weak shear and moderate instability. As the complex of storms grazed the northern tier of counties in Oklahoma, a severe wind gust occurred in Blackwell.

GRANT COUNTY --- DEER CREEK [36.81, -97.52]

	07/22/13 17:30 CST		5K	Thunderstorm Wind (EG 52 kt)
	07/22/13 17:30 CST		0	Source: Public

Shingles were blown off roofs and numerous tree limbs downed.

GRANT COUNTY --- DEER CREEK [36.81, -97.52]

	07/22/13 18:05 CST		0	Hail (1.00 in)
	07/22/13 18:05 CST		0	Source: Public

WOODS COUNTY --- 13.5 NNE CAMP HOUSTON [36.98, -99.00]

	07/22/13 20:50 CST		0	Thunderstorm Wind (MG 51 kt)
	07/22/13 20:50 CST		0	Source: Mesonet

WOODS COUNTY --- 13.5 NNE CAMP HOUSTON [36.98, -99.00]

	07/22/13 21:05 CST		0	Thunderstorm Wind (MG 51 kt)
	07/22/13 21:05 CST		0	Source: Mesonet

Supercells and multicells developed across southern Kansas during the afternoon in an environment of high instability and moderate shear. One supercell crossed into Oklahoma in Grant Co. and produced severe hail. Later, a weakening storm complex moved into northwest Oklahoma from the north and produced severe wind gusts.

HARPER COUNTY --- 0.9 SW BUFFALO [36.82, -99.64]

	07/23/13 20:05 CST		0	Thunderstorm Wind (MG 56 kt)
	07/23/13 20:05 CST		0	Source: Mesonet

WOODS COUNTY --- 3.1 WNW HOPETON [36.71, -98.72]

	07/23/13 20:50 CST		0	Thunderstorm Wind (MG 53 kt)
	07/23/13 20:50 CST		0	Source: Mesonet

KAY COUNTY --- 2.2 W BLACKWELL [36.80, -97.32]

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	07/23/13 21:23 CST		0	Thunderstorm Wind (MG 65 kt)
	07/23/13 21:23 CST		0	Source: Trained Spotter

KAY COUNTY --- 0.9 NW PONCA CITY [36.71, -97.09]

	07/23/13 21:34 CST		0	Thunderstorm Wind (MG 54 kt)
	07/23/13 21:34 CST		0	Source: ASOS

No damage was reported.

KAY COUNTY --- 0.9 NW PONCA CITY [36.71, -97.09]

	07/23/13 21:46 CST		0	Thunderstorm Wind (MG 52 kt)
	07/23/13 21:46 CST		0	Source: ASOS

No damage was reported.

Intense thunderstorms, including some supercells, developed across Kansas during the afternoon and moved southward. By mid evening, a linear complex had evolved and crossed into Oklahoma. Several reports of severe wind gusts were received in the northern tier of counties.

CUSTER COUNTY --- 0.6 W WEATHERFORD [35.53, -98.71]

	07/25/13 22:30 CST		0	Hail (1.75 in)
	07/25/13 22:30 CST		0	Source: Public

Ping pong to golfball size hail lasted five minutes.

CUSTER COUNTY --- 0.6 W WEATHERFORD [35.53, -98.71]

	07/25/13 22:30 CST		1K	Thunderstorm Wind (EG 56 kt)
	07/25/13 22:30 CST		0	Source: Public

Large tree branches were reported down.

COMANCHE COUNTY --- 1.8 WSW LAWTON [34.60, -98.42]

	07/26/13 02:21 CST		0	Thunderstorm Wind (MG 54 kt)
	07/26/13 02:21 CST		0	Source: ASOS

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

	07/26/13 02:45 CST		0	Hail (1.75 in)
	07/26/13 02:45 CST		0	Source: Broadcast Media

OKLAHOMA COUNTY --- 2.0 W VALLEY BROOK [35.40, -97.52], 1.0 W VALLEY BROOK [35.40, -97.50], 1.2 SW VALLEY BROOK [35.39, -97.50], 2.1 WSW VALLEY BROOK [35.39, -97.52]

	07/26/13 04:50 CST		30K	Flash Flood (due to Heavy Rain)
	07/26/13 06:50 CST		0	Source: Broadcast Media

Local media station KWTW reports I-240 and Santa Fe are flooded. Up to a foot of water covering area roadways and up to car bumpers. Damages estimated.

OKLAHOMA COUNTY --- 3.9 NNE (OKC)WILL ROGERS APT [35.44, -97.57], 3.5 SW OKLAHOMA CITY [35.44, -97.56], 3.6 NE (OKC)WILL ROGERS APT [35.43, -97.56], 3.4 NNE (OKC)WILL ROGERS APT [35.43, -97.57]

	07/26/13 05:20 CST		0.15M	Flash Flood (due to Heavy Rain)
	07/26/13 07:20 CST		0	Source: Broadcast Media

Local media station KOCO reports flash flooding at SW 29th and May Ave. One to two feet of water covering some roadways with up to 5 cars flooded and stalled. No injuries reported.

COMANCHE COUNTY --- 2.5 SE MEDICINE PARK [34.70, -98.47], 4.1 NE (FSI)FORT SILL [34.71, -98.33], 5.0 ESE LAWTON [34.58, -98.31], 5.5 WSW LAWTON [34.59, -98.49]

	07/26/13 05:26 CST		0	Flash Flood (due to Heavy Rain)
	07/26/13 07:26 CST		0	Source: Broadcast Media

Media station KSWO 7 in Lawton reported numerous roads and intersection were closed and impassable due to flash flooding. No damage or injuries reported.

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
OKLAHOMA COUNTY --- 3.1 SW OKLAHOMA CITY [35.44, -97.55], 2.9 SW OKLAHOMA CITY [35.45, -97.55], 2.5 SW OKLAHOMA CITY [35.45, -97.54], 2.8 SW OKLAHOMA CITY [35.44, -97.54]				
	07/26/13 05:41 CST		0	Flash Flood (due to Heavy Rain)
	07/26/13 07:41 CST		0	Source: Storm Chaser
Up to a foot of water over the road at SW 20th and Pennsylvania Avenue. No damage or injuries reported.				
CLEVELAND COUNTY --- 3.2 SW (OUN)NORMAN WESTHEIMER ARPT [35.22, -97.52], 3.7 SW (OUN)NORMAN WESTHEIMER ARPT [35.21, -97.52], 2.9 SSW (OUN)NORMAN WESTHEIMER ARPT [35.21, -97.49], 2.3 SSW (OUN)NORMAN WESTHEIMER ARPT [35.22, -97.49]				
	07/26/13 05:56 CST		0.15M	Flash Flood (due to Heavy Rain)
	07/26/13 08:00 CST		0	Source: Public
Public reports of impassable roads along W Main St. between 36th and 48th Avenues. NW 36th St. closed south of Main St. due to flooding. Stalled cars in several areas. No injuries reported. Damages estimated.				
CLEVELAND COUNTY --- 0.7 S NORMAN [35.21, -97.44], 0.5 S NORMAN [35.21, -97.44], 0.6 SE NORMAN [35.21, -97.43], 0.8 SSE NORMAN [35.21, -97.43]				
	07/26/13 06:00 CST		0	Flash Flood (due to Heavy Rain)
	07/26/13 08:00 CST		0	Source: NWS Employee
Flash flooding at intersection of Boyd and Classen with up to 2 feet of water over the road. No damage or injuries reported.				
CLEVELAND COUNTY --- 1.2 SSW NORMAN [35.20, -97.45], 1.1 SSW NORMAN [35.20, -97.45], 1.3 SSW NORMAN [35.20, -97.45], 1.3 SSW NORMAN [35.20, -97.45]				
	07/26/13 06:00 CST		0	Flash Flood (due to Heavy Rain)
	07/26/13 08:00 CST		0	Source: Broadcast Media
Media station KWTW reports 1 to 2 feet of water over the intersection of Elm and Lindsey streets on University of Oklahoma campus. No damage or injuries reported.				
CLEVELAND COUNTY --- 1.4 SW NOBLE [35.12, -97.41], 3.7 WSW SLAUGHTERVILLE [35.08, -97.39], 2.2 WSW SLAUGHTERVILLE [35.08, -97.37], 1.7 SE NOBLE [35.12, -97.37]				
	07/26/13 06:00 CST		0	Flash Flood (due to Heavy Rain)
	07/26/13 08:00 CST		0	Source: NWS Employee
Water over the roadway at Hwy 77 just south of Noble. No damage reported.				
A small complex of thunderstorms developed near the I-40 corridor in western Oklahoma during the late evening, resulting in a severe wind and hail report near Clinton. Later, a more extensive complex of storms moved southward out of Kansas into the western half of Oklahoma during the early morning hours of the 26th, leading to excessive rainfall and widespread flash flooding. Additional severe wind and hail reports resulted near Lawton.				
WOODS COUNTY --- ALVA [36.80, -98.67]				
	07/29/13 18:05 CST		0	Thunderstorm Wind (EG 52 kt)
	07/29/13 18:05 CST		0	Source: Law Enforcement
Law enforcement estimated gusts around 60 mph.				
WOODS COUNTY --- FREEDOM [36.77, -99.11]				
	07/29/13 18:35 CST		0	Thunderstorm Wind (EG 52 kt)
	07/29/13 18:35 CST		0	Source: Public
The public estimated wind gusts around 60 mph.				
ELLIS COUNTY --- 1.1 E CATESBY [36.49, -99.94]				
	07/29/13 19:00 CST		0	Hail (1.25 in)
	07/29/13 19:00 CST		0	Source: Public
WOODS COUNTY --- ALVA [36.80, -98.67]				
	07/29/13 19:07 CST		0	Thunderstorm Wind (EG 52 kt)
	07/29/13 19:07 CST		0	Source: Law Enforcement

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Law enforcement estimated gusts around 60 mph.				
WOODWARD COUNTY --- MOORELAND [36.44, -99.21]				
	07/29/13 19:54 CST		5K	Thunderstorm Wind (EG 52 kt)
	07/29/13 19:54 CST		0	Source: Law Enforcement
Police department reported numerous 1-3 inch diameter tree limbs down around Mooreland, along with one power pole.				
WOODWARD COUNTY --- 6.2 SSE QUINLAN [36.37, -99.00]				
	07/29/13 20:06 CST		5K	Thunderstorm Wind (EG 56 kt)
	07/29/13 20:06 CST		0	Source: Trained Spotter
Trained spotter reported three to five tree limbs down, which were 5-8 inches in diameter. Also, a large, empty water tank was moved 20 yards by the wind.				
ELLIS COUNTY --- GAGE [36.32, -99.76]				
	07/29/13 20:07 CST		3K	Thunderstorm Wind (EG 56 kt)
	07/29/13 20:07 CST		0	Source: Post Office
Post Office employee reported 6-8 inch diameter branches down. Other numerous smaller branches were down between Gage and Fargo.				
ELLIS COUNTY --- GAGE [36.32, -99.76]				
	07/29/13 20:34 CST		0	Thunderstorm Wind (MG 51 kt)
	07/29/13 20:34 CST		0	Source: ASOS
KGAG recorded a gust to 59 mph.				
WOODWARD COUNTY --- 7.8 ESE MUTUAL [36.19, -99.04]				
	07/29/13 20:50 CST		0	Thunderstorm Wind (MG 51 kt)
	07/29/13 20:50 CST		0	Source: Mesonet
ELLIS COUNTY --- GAGE [36.32, -99.76]				
	07/29/13 21:40 CST		0	Thunderstorm Wind (MG 53 kt)
	07/29/13 21:40 CST		0	Source: ASOS
BLAINE COUNTY --- 6.2 SSE EAGLE CITY [35.85, -98.54]				
	07/29/13 22:05 CST		0	Thunderstorm Wind (MG 52 kt)
	07/29/13 22:05 CST		0	Source: Mesonet
KINGFISHER COUNTY --- 4.2 ESE OMEGA [35.85, -98.13]				
	07/29/13 22:30 CST		0.50K	Thunderstorm Wind (EG 52 kt)
	07/29/13 22:30 CST		0	Source: Public
Small tree limbs reported down. Also low water crossings flooded.				
CUSTER COUNTY --- 4.4 NW FOSS RES DAM [35.58, -99.25]				
	07/30/13 00:01 CST		0	Thunderstorm Wind (MG 59 kt)
	07/30/13 00:01 CST		0	Source: Mesonet
Numerous thunderstorms developed across Kansas during the mid to late afternoon in an environment of moderate shear and high instability, with very rich low-level moisture. These storms quickly merged into an extensive linear complex that stretched across southern Kansas, then continued southward across the western half of Oklahoma during the evening. Numerous severe wind gusts were recorded across the northwest quadrant of the state, along with isolated severe hail.				
PONTOTOC COUNTY --- 1.3 ENE ADA [34.78, -96.66]				
	07/30/13 18:00 CST		0	Thunderstorm Wind (EG 52 kt)
	07/30/13 18:00 CST		0	Source: Public
The public estimated wind gusts to 50-60 mph.				
Isolated multicell thunderstorms developed over central Oklahoma during the afternoon hours and drifted slowly southward. As one of the storms passed over Ada in the early evening, a severe wind gust was reported.				

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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

07/01/13 00:00 CST

0

Drought

07/31/13 23:59 CST

0

Precipitation for July was generally near to below average across western north Texas, allowing for a continuation of the long-term drought. The entire area remained under at least D1 drought designation as of the end of July.