

Oklahoma, Eastern May 1993

Rogers County, 5 E Claremore	01	1920CST		0	0		Hail (0.88)
Creek County, 2 W Depew	01	2212CST		0	0		Hail (1.00)
Creek County, Drumright	01	2242CST		0	0		Hail (1.00)
Creek County, Drumright	01	2245CST		0	0		Hail (1.75)
Creek County, 3 E Shamrock	01	2348CST		0	0		Hail (1.25)
Creek County, Drumright	02	0030CST- 0515CST		0	0	6	Flash Flood
Creek County, 1 S Shamrock	02	0045CST- 0115CST		0	0		Flash Flood
Creek County, 12 E Drumright	02	0048CST		0	0		Hail (0.75)
Creek County, 12 N Bristow	02	0052CST		0	0		Hail (0.88)

Isolated severe thunderstorms developed in northeast Oklahoma during the evening of May 1st and lingered into the early morning of May 2nd. Dime to nickel size hail fell 5 miles east of Claremore in Rogers County, and numerous locations in Creek County received dime to half dollar size hail. Hail as large as golfball size fell briefly at Drumright in Creek County. Torrential rainfall also resulted in flash flooding in Drumright. Tiger Creek overflowed its banks, and the water from the creek rose 4 1/2 feet over a bridge across State Highway 33 in Drumright. This resulted in considerable flood damage to 5 to 10 businesses in Drumright, with water as deep as 5 feet in one business. 100 families were evacuated due to the floodwaters. Damage in Drumright was estimated to be \$500,000. Water was also over State Highway 16 1 mile south of Shamrock for a short period of time.

McIntosh County, 5 W Checotah	02	1520CST	0.1 30	0	0		Tornado (F-0)
McIntosh County, 5 SW Checotah	02	1550CST		0	0		Hail (0.75)
Tulsa County, Tulsa	02	1600CST		0	0		TSTM Wind (56)
Tulsa County, Tulsa	02	1600CST		0	0		Hail (0.75)
Tulsa County, Tulsa	02	1610CST		0	0		Hail (0.75)
Muskogee County, 6 NE Boynton	02	1630CST		0	0		Hail (0.88)
Rogers County, 5 SE Verdigris	02	1645CST		0	0		Hail (0.75)
Wagoner County, 6 W Inola	02	1645CST		0	0		Hail (0.75)
McIntosh County, Checotah	02	1655CST		0	0		Hail (0.75)
Wagoner County, 1 W Porter	02	1700CST		0	0		Hail (0.88)
Mayes County, Adair	02	1732CST		0	0		Hail (0.88)
Latimer County, 2 W Wilburton	02	1739CST		0	0		Hail (1.75)
Muskogee County,	02	1740CST		0	0		Hail (0.75)

3 SW Webbers Falls

Rogers County, 5 NE Chelsea	02	1745CST	0	0	Hail (0.75)
Mayes County, 4 N Adair	02	1748CST	0	0	Hail (1.75)
Craig County, 2 SW Big Cabin	02	1750CST	0	0	Hail (1.75)
Mayes County, 4.5 N Adair	02	1758CST	0	0	Hail (1.00)
Cherokee County, 4 E Hulbert	02	1800CST	0	0	Hail (0.75)
Adair County, 15 NW Stilwell	02	1800CST	0	0	Hail (0.75)
Rogers County, Claremore	02	1800CST- 1900CST	0	0	Flash Flood
Craig County, White Oak	02	1810CST	0	0	Hail (0.75)
Delaware County, 5 E Disney	02	1850CST	0	0	Hail (0.75)
Craig County, Bluejacket	02	1902CST	0	0	Hail (0.75)
McIntosh County, 3 S Eufaula	02	1930CST- 2030CST	0	0	Flash Flood
Muskogee County, Muskogee	02	1930CST- 2030CST	0	0	Flash Flood
Muskogee County, 5 N Warner - Webbers Falls	02	1930CST-2030CST	0	0	Flash Flood
Craig County, Welch - 1 S Welch	02	1930CST- 2000CST	0	0	Flash Flood
Ottawa County, 3 E Narcissa	02	1940CST	0	0	TSTM Wind (52)
Adair County, 5.5 SE Stilwell	02	1945CST	0	0	Hail (0.75)
Craig County, 6 N Vinita	02	1945CST	0	0	Flash Flood
Craig County, Ketchum	02	1945CST- 2015CST	0	0	Flash Flood

Severe thunderstorms developed in eastern Oklahoma during the afternoon and evening of May 2nd. One of the storms produced a small rope-like tornado which briefly touched down at 1520 CST 5 miles west of Checotah, just north of Interstate 40. No damage occurred as a result of this F-0 tornado. There were numerous occurrences of dime to nickel size hail throughout eastern Oklahoma, and a few locations received hail up to golfball size. Golfball size hail fell 2 miles west of Wilburton, 4 miles north of Adair, and 2 miles southwest of Big Cabin. Thunderstorm winds gusted to 65 miles an hour at the intersection of Yale Avenue and 61st Street South in the city of Tulsa, and dime size hail also fell at this location. 60 mile an hour winds occurred on Interstate 44 3 miles east of Narcissa. Heavy rainfall produced by the storms also resulted in flash flooding in a few locations. In Rogers County, Cat Creek in Claremore overflowed its banks, flooding apartments near Cotton Eye Joe's Restaurant. A foot of water covered side roads off State Highway 9 3 miles south of Eufaula in McIntosh County. Dirty Creek overflowed its banks 5 miles north of Warner in Muskogee County. This forced the closing of Coffey Road and several other county roads towards Webbers Falls. A creek in the town of Muskogee also overflowed its banks, forcing the closing of Country Club Road. In Craig County, water was a foot deep over streets in the town of Welch, and water covered State Highway 2 south of Welch. A deputy's car was washed off the road on State Highway 2 6 miles north of Vinita, and street flooding occurred in Vinita.

Okmulgee County, Okmulgee	06	0310CST- 0410CST	0	0		Flash Flood
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Okmulgee County, 1 N Beggs	06	0345CST- 0445CST	0	0		Flash Flood
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Heavy rains over Okmulgee County during the early morning of May 6th resulted in flash flooding. Alternate U.S. Highway 75 north of Beggs was under water for a time, and street flooding occurred in Okmulgee.

Pawnee County, Cleveland	07	2318CST	0	0		TSTM Wind (56)
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Osage County, Barnsdall	07	2333CST	0	0		TSTM Wind (61)
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Washington County, Bartlesville	07	2358CST	0	0		TSTM Wind
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Washington County, Bartlesville	08	0000CST- 0030CST	0	0	5	TSTM Wind (74)
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A severe thunderstorm developed in Pawnee County during the late evening of May 7th and moved northeast into Osage and Washington Counties before weakening during the early morning of May 8th. The storm produced 60 to 70 mile an hour winds at Cleveland and 70 mile an hour winds at Barnsdall before moving into Bartlesville, where significant wind damage occurred between Adeline and Virginia Streets on the west side of town. Approximately 60 homes received roof damage, and several businesses including the Bartlesville Inn had windows broken, roofs destroyed, and signs lifted from frames. A Ventilator on top of one business was broken off by the winds. Trees were uprooted, and three 40 foot electric poles were also downed by the winds. The winds responsible for the damage in Bartlesville were estimated to be between 80 and 90 miles an hour.

Osage County, 5 W Grainola	08	0730CST	0	0	3	TSTM Wind
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Tulsa County, Tulsa	08	1050CST	0	0		Hail (1.75)
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Isolated severe thunderstorms redeveloped in northeast Oklahoma after sunrise on May 8th. Strong thunderstorm winds downed trees and destroyed a shed 5 miles west of Grainola, and golfball size hail fell in the city of Tulsa on Sheridan Road between 41st and 51st Streets South.

Osage County, Countywide	08	1600CST- 2130CST	0	0	5	Flash Flood
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Pawnee County, Countywide	08	1600CST- 2130CST	0	0	5	Flash Flood
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Creek County, Countywide	08	1645CST- 2130CST	0	0		Flash Flood
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Washington County, Countywide	08	1730CST- 2200CST	0	0	5	Flash Flood
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Nowata County, Countywide	08	1730CST- 2200CST	0	0		Flash Flood
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Tulsa County, Countywide	08	1745CST- 2230CST	0	0	5	Flash Flood
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Craig County, Countywide	08	1800CST- 2330CST	0	0		Flash Flood
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Rogers County, Countywide	08	1830CST- 2230CST	0	0		Flash Flood
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Mayes County, Countywide	08- 09	1900CST- 0200CST	0	0	5	Flash Flood
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Okmulgee County,	08-	2000CST-	0	0		Flash Flood
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Countywide	09	0300CST				
Wagoner County, Countywide	08- 09	2000CST- 0430CST	0	0	5	Flash Flood
Muskogee County, Countywide	08- 09	2100CST- 0300CST	0	0		Flash Flood
Cherokee County, Countywide	08- 09	2100CST- 0300CST	0	0		Flash Flood
McIntosh County, 7 WNW Texanna - Texanna	09	0100CST-0330CST	0	0		Flash Flood
Osage County, Countywide	09	0600CST- 1000CST	0	0		Flash Flood
Pawnee County, Countywide	09	0600CST- 1000CST	0	0		Flash Flood
Washington County, Countywide	09	0600CST- 1000CST	0	0		Flash Flood
Creek County, Countywide	09	0700CST- 1000CST	0	0		Flash Flood
McIntosh County, Countywide	09	0700CST- 1830CST	0	0		Flash Flood
Pittsburg County, Haileyville	09	0725CST	0	0	4	TSTM Wind
Pittsburg County, 3 NE Pittsburg	09	0745CST	0	0		TSTM Wind
McIntosh County, 6 N Eufaula	09	0750CST	0	0	3	TSTM Wind
Tulsa County, Countywide	09	0800CST- 1030CST	0	0		Flash Flood
Okfuskee County, 5 E Welty	09	0800CST- 1045CST	0	0		Flash Flood
Okmulgee County, Countywide	09	0800CST- 1430CST	0	0		Flash Flood
Rogers County, Countywide	09	0800CST- 1600CST	0	0		Flash Flood
Latimer County, 2 S Wilburton	09	0829CST	0	0		TSTM Wind
Wagoner County, Countywide	09	0830CST- 1700CST	0	0		Flash Flood
Muskogee County, Countywide	09	0830CST- 1800CST	0	0		Flash Flood
Mayes County, Countywide	09	0900CST- 1600CST	0	0		Flash Flood
Craig County, Countywide	09	1000CST- 1830CST	0	0		Flash Flood
Latimer County, Countywide	09	1130CST- 1700CST	0	0		Flash Flood
Cherokee County, Countywide	09	1230CST- 1830CST	0	0		Flash Flood
Haskell County, Countywide	09	1300CST- 1915CST	0	0		Flash Flood
Delaware County, Countywide	09	1400CST- 1830CST	0	0		Flash Flood
Adair County,	09	1400CST-	0	0		Flash Flood

Countywide		2030CST			
Tulsa County, Bixby	09	1800CST- 2300CST	0	0	Flash Flood
Eastern Oklahoma	08- 11	1800CST- 1900CST	0	0	6 River Flooding

A slow moving cold front produced rainfall amounts of 3 to 6 inches across much of eastern Oklahoma from the afternoon of May 8th through the afternoon of May 9th. The rain fell on top of already saturated ground and resulted in widespread flash flooding. Creeks overflowed their banks and numerous county roads and some major highways were closed for up to 3 days. Many bridges were washed out, mainly in rural areas. Some cars were washed off the road on U.S Highway 66 in Rogers County during the evening of May 8th, but no injuries were reported. One motorist and her children had to be rescued by the fire department after the woman drove into several feet of water at an underpass in the city of Tulsa. Several other vehicles were washed off streets in the cities of Tulsa and Broken Arrow during the evening of May 8th, but no injuries were reported. A 13 year old boy was briefly swept into Joe Creek in south Tulsa, but he escaped unhurt on his own. Isolated severe thunderstorms also produced wind damage in southeast Oklahoma during the morning of May 9th. Strong thunderstorm winds uprooted trees and caused roof damage at Haileyville, and a power line was downed 3 miles northeast of Pittsburg. Strong thunderstorm winds also damaged a barn 6 miles north of Eufaula and downed large tree branches 2 miles south of Wilburton.

Nearly every major river and creek in eastern Oklahoma rose above flood stage during this time period. Most of the flood crests occurred between May 9th and 11th, although the Neosho River at Commerce in extreme northeast Oklahoma did not crest until May 19 following additional heavy rainfall upstream in southeast Kansas. The Deep Fork River at Beggs rose more slowly than the other rivers, and did not crest until May 14th. Stages on the Arkansas River were controlled by upstream releases through Keystone Dam. The following is a more in-depth summary of the flooding on each major river and creek:

Near record flooding of 7 to 12 feet above flood stage occurred along Bird Creek in Osage and Tulsa Counties. In addition to major flooding of crops and pasturelands along Bird Creek, approximately 40 homes and 18 businesses in Skiatook had flooding to a depth of 1 to 5 feet. Approximately 15 homes were evacuated in Sperry due to the flooding. No homes or businesses were flooded in Owasso. Bird Creek crested at Avant on May 9th at 28.09 feet (flood stage 21 feet), at Sperry on May 10th at 29.84 feet (flood stage 21 feet), at Owasso on May 11th at 34.55 feet (flood stage 25 feet), and at Catoosa on May 11th at 33.22 feet (flood stage 26 feet).

Major flooding of crops and pasturelands occurred along the Black Bear Creek in Pawnee County, where flood crests were 5 to 6 feet above flood stage. A few homes in the town of Pawnee were also flooded. Black Bear Creek crested at Pawnee on May 10th at 23.24 feet (flood stage 17 feet).

Flooding of crops and pasturelands occurred along the Caney River in Washington and Rogers Counties, where flood crests were 2 to 5 feet above flood stage. Approximately 53 homes in Washington County received damage due to the combination of flooding along the Caney River and flash flooding. The Caney River crested at Bartlesville on May 9th at 16.54 feet (flood stage 13 feet), at Ramona on May 10th at 28.91 feet (flood stage 26 feet), and at Collinsville on May 11th at 34.40 feet (flood stage 29 feet).

Major flooding of crop and pasturelands occurred along the Deep Fork River in Okmulgee County. The river rose above flood stage on May 12th and remained above flood stage until May 21st. The Deep Fork River crested at Beggs on May 14th at 30.01 feet (flood stage 18 feet).

Flooding of crops and pasturelands occurred along the Illinois River in Adair and Cherokee Counties. The Illinois River crested at Watts on May 11th at 17.29 feet (flood stage 13 feet) and at Tahlequah on May 11th at 14.78 feet (flood stage 11 feet).

Flooding of crops and pasturelands occurred along the Neosho River in Ottawa County. There was considerable street flooding in the town of Miami and the city park was flooded, but no homes or businesses were affected. The Neosho River at Commerce was above flood stage from May 9th through 16th and again from May 18th through 25th. The river crested on May 11th at 20.25 feet, and crested again on May 19th at

20.32 feet (flood stage 15 feet).

Flooding of crops and pasturelands occurred along the Verdigris River in Nowata County. The Verdigris River crested at Lenapah on May 10th at 33.26 feet (flood stage 30 feet).

On May 9th and 10th, 1 to 2 feet of flooding occurred along the Polecat Creek in Creek and Tulsa Counties. The flooding was mainly confined to lowlands near the creek, and flooding to homes and businesses was minimal.

Flooding of lowlands near the Arkansas River occurred in Osage and Pawnee Counties. Many roads in the lowlands near the river were closed due to high water. The Arkansas River crested at Ralston on May 12th at 19.69 feet (flood stage 16 feet). Large releases of water through Keystone Dam caused the Arkansas River at Haskell to rise above flood stage. The river crested at Haskell on May 15th at 22.72 feet (flood stage 18 feet).

During this flood event, there was considerable damage to crops and pasturelands, as well as roads, highways, and bridges in areas near the rivers. Considerable evacuations and flood preparations were made before flooding began, and this held the flood damage down to the lowest possible amount. Large numbers of livestock were evacuated from pasturelands near the river, and no livestock was lost from flooding along the rivers.

Preliminary estimates indicate that 62 homes in Osage County, 53 homes in Washington County, and 58 home in Wagoner County were damaged by floodwaters. This is damage caused both by flash flooding and river flooding. Reports from other counties were not immediately available.

Craig County, Vinita	17	0645CST- 0715CST	0	0	Flash Flood
Delaware County, NR Bernice	17	0730CST- 0830CST	0	0	Flash Flood
Ottawa County, 3 SE Ottawa	17	1010CST	0	0	Hail (0.75)

Thunderstorms developed in northeast Oklahoma during the morning of May 17th and resulted in isolated occurrences of large hail and flash flooding. Dime size hail fell 3 miles southeast of Ottawa, and street flooding occurred in Vinita. Water also covered State Highway 85A near Bernice for a time during the morning hours.

Osage County, 7 N Shidler	17	2000CST	0	0	TSTM Wind (61)
Nowata County, South Coffeyville	17	2015CST	0	0	Hail (0.75)
Osage County, Hominy	17	2035CST	0	0	TSTM Wind (56)
Pawnee County, Skedee	17	2035CST	0	0	TSTM Wind (52)
Washington County, Bartlesville	17	2057CST	0	0	TSTM Wind (52)
Creek County, Drumright	17	2058CST	0	0	TSTM Wind (56)
Nowata County, 5 W South Coffeyville	17	2100CST	0.1	30	0 0 Tornado (F-0)
Nowata County, 5 SSW South Coffeyville	17	2100CST	0	0	Hail (1.75)
Washington County, Bartlesville	17	2100CST	0	0	5 TSTM Wind (70)
Tulsa County, 3 SW Sand Springs	17	2105CST	0	0	TSTM Wind (52)
Tulsa County, NR Sperry	17	2105CST	0	0	TSTM Wind (52)

Creek County, Shamrock - 2 S Depew	17	2110CST	0	0		TSTM Wind (59)
Nowata County, South Coffeyville	17	2110CST	0	0		TSTM Wind (52)
Tulsa County, Owasso	17	2119CST	0	0		TSTM Wind (56)
Tulsa County, Skiatook	17	2120CST	0	0		TSTM Wind (56)
Creek County, Depew	17	2120CST	0	0		TSTM Wind (56)
Tulsa County, Tulsa	17	2125CST	0	0		TSTM Wind (52)
Rogers County, Claremore	17	2125CST	0	0		TSTM Wind (55)
Tulsa County, Tulsa	17	2127CST	0	0		Hail (0.75)
Nowata County, Nowata	17	2135CST	0	0	5	TSTM Wind (56)
Tulsa County, West Tulsa	17	2138CST	0	0		Hail (0.75)
Tulsa County, Tulsa	17	2140CST	0	0		Hail (0.75)
Creek County, 5 S Slick	17	2140CST	0	0		TSTM Wind (61)
Mayes County, Pryor	17	2155CST	0	0	4	TSTM Wind (56)
Wagoner County, 2 N Porter	17	2200CST	0	0		TSTM Wind (52)
Okfuskee County, 5 SE Welty	17	2200CST	0	0		TSTM Wind (61)
Okmulgee County, Okmulgee	17	2206CST	0	0		TSTM Wind (61)
Craig County, 1 E Welch	17	2215CST	0	0		Hail (0.88)
Ottawa County, Afton	17	2215CST	0	0		TSTM Wind (65)
Muskogee County, Muskogee	17	2220CST	0	0		TSTM Wind (56)
Ottawa County, Afton	17	2224CST	0	0		TSTM Wind (56)
Delaware County, 3 NE Bernice	17	2225CST	0	0		TSTM Wind (52)
Ottawa County, 6 S Miami	17	2231CST	0	0		TSTM Wind (56)
Cherokee County, Tahlequah	17	2241CST	0	0		Hail (0.88)
Wagoner County, 5 E Wagoner	17	2245CST	0	0		TSTM Wind

Severe thunderstorms developed along a cold front and moved into northeast Oklahoma during the early evening of May 17th. The storms then moved southeast across most of eastern Oklahoma during the evening, producing widespread wind damage and one small tornado. The tornado touched down at 2100 CST 5 miles west of South Coffeyville, just inside the Oklahoma/Kansas border. No damage occurred as a result of this F-0 tornado. Strong thunderstorm winds of 80 miles an hour caused considerable roof damage to the Bartlesville Public Library.

Roof damage to homes also occurred on the east side of Bartlesville, and trees were downed by the winds. Winds estimated at 60 to 70 miles an hour caused extensive damage in Nowata. 1 mobile home was destroyed, and 2 apartment complexes and at least 24 homes were damaged by the strong winds. Most of the damage to homes was roof damage. The fire station in Nowata also received roof damage. Windows were blown out of stores in Nowata, outbuildings and sheds were damaged, and trees and power lines were downed. 60 to 70 mile an hour winds occurred in Pryor, where large trees were downed and windows were blown out. A travel trailer was crushed by a downed tree in Pryor. Strong thunderstorm winds downed trees in Creek County from Shamrock to 2 miles south of Depew. Trees were also downed by 60 to 70 mile an hour winds in Skiatook, and trees and power lines were downed by 60 mile an hour winds throughout the city of Tulsa. 60 mile an hour winds also caused tree damage in South Coffeyville. A large tree was blown down across a road 5 miles east of Wagoner. Thunderstorm winds were estimated at 70 to 80 miles an hour in Afton. Numerous other locations in eastern Oklahoma received winds between 60 and 70 miles an hour. A few of the storms also produced large hail. Quarter to golfball size hail fell 5 miles southwest of South Coffeyville, and nickel size hail fell 1 mile east of Welch. Dime to nickel size hail fell at Tahlequah, and dime size hail fell at South Coffeyville and at various locations in the city of Tulsa.

Osage County, 23 0145CST 0 0 Hail (0.75)
3 N Wynona

An isolated severe thunderstorm developed in Osage County during the early morning of May 23rd and produced dime size hail 3 miles north of Wynona.

Delaware County, 30 1250CST- 3 100 0 0 5 Tornado (F-0)
8 E Jay - 11 ESE Jay 1258CST

An isolated severe thunderstorm developed in Delaware County during the early afternoon of May 30th. This storm produced a tornado which first touched down 8 miles east of Jay at 1250 CST. The tornado moved southeast, destroying 2 equipment sheds and damaging 1 other equipment shed 9.5 miles east of Jay. The tornado continued southeast, and damaged a chicken house 11 miles east southeast of Jay before lifting at 1258 CST. Several trees were also downed along the path of the tornado. This F-0 tornado remained on the ground for 3 miles and was 100 yards wide. Damage caused by the tornado was estimated to be up to \$100,000.