



National Weather Service

Storm Data and Unusual Weather Phenomena



March 1998

| Location | Date | Time Local/ Standard | Path Length (Miles) | Path Width (Yards) | Number of Persons Killed | Number of Persons Injured | Estimated Damage Property | Estimated Damage Crops | Character of Storm |
|----------|------|----------------------------|---------------------------|--------------------------|--------------------------------|---------------------------------|---------------------------------|------------------------------|--------------------|
|----------|------|----------------------------|---------------------------|--------------------------|--------------------------------|---------------------------------|---------------------------------|------------------------------|--------------------|

ARKANSAS, Northwest

Washington County

Greenland 05 1230CST 0 0 **Hail (0.75)**

Madison County

Wesley 05 1258CST 0 0 **Hail (0.88)**

Madison County

Huntsville 05 1325CST 0 0 **Hail (0.75)**

Carroll County

3 SW Eureka Spgs 05 1335CST 0 0 **Hail (0.75)**

Thunderstorms formed over northwest Arkansas during the early afternoon of March 5 to the north of a surface stationary front over southern Arkansas. Surface temperatures on the cool side of the front in the 40s. Unstable air aloft and the approach of a wave of low pressure along the front were enough to fire off the thunderstorms north of the surface front. The only severe reports with these storms were in the form of dime to nickel-sized hail.

Sebastian County

Ft Smith 07 1500CST 0 0 **Hail (0.75)**

Crawford County

Van Buren 07 1505CST 0 0 **Hail (0.75)**

Washington County

Lincoln 07 1520CST 0 0 0.50K **Thunderstorm Wind**

Pieces of barn on road near Lincoln

Washington County

Fayetteville 07 1535CST 0 0 0.20K **Thunderstorm Wind**

Tree downed on a road on the west side of Fayetteville.

A powerful early spring storm system moved across Oklahoma and Arkansas during the day on March 7. Severe thunderstorms developed during the mid-afternoon over extreme eastern Oklahoma and then moved into western Arkansas around 3:00 PM.

Sebastian County

Ft Smith 19 0251CST 0 0 5K **Thunderstorm Wind**

Power lines downed by tstm winds on west side of city

Crawford County

3 W Alma 19 0300CST 0 0 4K **Thunderstorm Wind**

Barn blown down and utility shed blown down

A broken line of severe thunderstorms developed along and south of I-40 over southeast Oklahoma during the early morning hours of March 19. The thunderstorms were in advance of a low pressure system moving along the Red River. The storms entered Arkansas around 245 AM and caused strong tstm winds in Crawford and Sebastian Counties.

ARZ001>002-010>011-019>020-029

Benton - Carroll - Washington - Madison - Crawford - Franklin - Sebastian

**27 0800CST
1500CST** 0 0 5.1K **High Wind**

A powerful spring storm moved quickly across Kansas and Missouri on March 27. High winds from the south developed across northwestern Arkansas during the late morning and early afternoon in advance of, but not directly associated with, a band of showers. (The showers themselves were non-severe and did not produce cloud-to-ground lightning until they got into central Arkansas.) For up to three hours in advance of the showers, widespread gradient winds were sustained above 30 miles an hour with frequent gusts over 40 miles an hour. Gusts of 50 to 60 miles an hour were not uncommon. Fayetteville's Drake Field had a peak gust for the day of 45 miles an hour, and the Fort Smith Regional Airport had a peak gust for the day of 49 miles an hour.

Power lines were blown down in Benton County around 11:00 am. A large tree was blown over in front of a house on Dyer Street in Springdale around 11:30 am.

Benton County

Siloam Spgs 30 2000CST 0 0 0.10K **Thunderstorm Wind**

Large tree blown down in city park



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ARKANSAS, Northwest

| | | | | | | | | | |
|--|----|--------------------|-----|-----|---|---|-------|--|-------------------------|
| Benton County | | | | | | | | | |
| Gentry | 30 | 2010CST | | | 0 | 0 | 2K | | Thunderstorm Wind |
| Power lines blown down near Gentry | | | | | | | | | |
| Washington County | | | | | | | | | |
| Prairie Grove | 30 | 2021CST | | | 0 | 0 | | | Thunderstorm Wind (G52) |
| Washington County | | | | | | | | | |
| Fayetteville | 30 | 2024CST | | | 0 | 0 | | | Thunderstorm Wind (G52) |
| Benton County | | | | | | | | | |
| 1 S Gravette to .5 E Gravette | 30 | 2025CST 2027CST | 1.2 | 125 | 0 | 0 | 100K | | Tornado (F1) |
| Considerable damage was reported with an F1 tornado and thunderstorm winds that blew through Gravette. Three homes in the area were damaged when large trees blew over. One of the houses' occupants described the storm as sounding like a freight train. Other homes had minor roof damage. High winds downed a power line, which left the east side of the city without power for about 35 to 40 minutes. Doors were blown out of the Hendren Plastics plant on Hwy. 72 in eastern Gravette. A tree was blown onto Hwy. 72 near Gravette, making travel impossible until it was removed around 10 pm. Another tree was blown across Ridge Road. | | | | | | | | | |
| Benton County | | | | | | | | | |
| Bella Vista | 30 | 2035CST | | | 0 | 0 | 35K | | Thunderstorm Wind |
| Numerous trees blown down in Bella Vista. Newspaper clipping cited "trees down on cars,...trees down on houses,...and trees down on streets." Power lines blown down causing power outages. | | | | | | | | | |
| Crawford County | | | | | | | | | |
| 8 S Mountainburg | 30 | 2045CST | | | 0 | 0 | | | Hail (0.88) |
| Crawford County | | | | | | | | | |
| Van Buren | 30 | 2056CST | | | 0 | 0 | | | Hail (0.75) |
| Near Hwy. 282 and I-540 | | | | | | | | | |
| Sebastian County | | | | | | | | | |
| Hartford | 30 | 2110CST | | | 0 | 0 | 0.20K | | Thunderstorm Wind |
| Sheet metal blown off shed | | | | | | | | | |
| Washington County | | | | | | | | | |
| 2 E Elkins | 30 | 2115CST | | | 0 | 0 | | | Thunderstorm Wind (G52) |
| Madison County | | | | | | | | | |
| Huntsville | 30 | 2125CST | | | 0 | 0 | | | Thunderstorm Wind (G52) |
| Madison County | | | | | | | | | |
| Huntsville | 30 | 2140CST | | | 0 | 0 | 0.10K | | Thunderstorm Wind |
| Several large tree limbs downed by wind | | | | | | | | | |
| A solid line of thunderstorms covering the entire north-south length of Oklahoma, associated with a cold front and wave of low pressure, moved into western Arkansas around 800 PM on the evening of March 30. The part of the line moving out of eastcentral Oklahoma had a bow echo signature as it moved into Arkansas, causing many reports of severe tstm winds. At the north end of this bow echo in Benton County, an F1 tornado formed near Gravette, causing considerable damage on the south and east sides of town. | | | | | | | | | |

OKLAHOMA, Eastern

| | | | | | | | | | |
|--|----------|--------------------|--|--|---|---|-------|--|-------------------|
| Tulsa County | | | | | | | | | |
| (Tul)Tulsa Intl Arpt | 01 31 | 0001CST 2359CST | | | 0 | 0 | | | Heavy Rain |
| March rainfall at the Tulsa International Airport totaled 7.34 inches, making this the third wettest March on record. The only two wetter Marches were in 1973 and 1922 with 11.94 and 8.31 inches respectively. | | | | | | | | | |
| Tulsa County | | | | | | | | | |
| Bixby | 07 | 0730CST | | | 0 | 0 | | | Hail (0.75) |
| Latimer County | | | | | | | | | |
| Wilburton | 07 | 1140CST | | | 0 | 0 | 0.50K | | Thunderstorm Wind |



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OKLAHOMA, Eastern

Tree limbs down on power lines

Mayes County
Countywide

07 1200CST
1600CST 0 0 Flash Flood

City park, low-water bridges, and streets flooded around 1:45 pm.

Rogers County
Countywide

07 1200CST
1600CST 0 0 Flash Flood

Low-water bridges flooded in Talala around 3:40 pm.

Tulsa County
Countywide

07 1200CST
1600CST 0 0 Flash Flood

Road closed at Garnett and New Orleans from creek overflow around 3:30 pm.

Le Flore County
Poteau

07 1430CST 0 0 0.10K Thunderstorm Wind

3-inch tree limb downed by wind

Le Flore County
4 E Cameron

07 1444CST 0 0 Hail (0.75)

Sequoyah County
Sallisaw

07 1448CST 0 0 Thunderstorm Wind (G51)

A powerful early spring storm system moved across Oklahoma during the day of March 7, producing a wide variety of weather across eastern Oklahoma. Heavy rains developed from Tulsa to Pryor during the morning, with widespread rainfall amounts of 2 to 3 inches. Flooding of even well-drained streets was common, and many low-water bridges were under water. Further southeast, severe thunderstorms developed over Sequoyah and LeFlore Counties during the mid-afternoon before moving east into Arkansas.

Pittsburg County
3 NE Mc Alester

19 0050CST 0 0 3K Thunderstorm Wind

Large radio tower blown over

Pushmataha County
5 SW Clayton

19 0110CST 0 0 0.50K Thunderstorm Wind

Roof blown off of a barn

Le Flore County
3 SE Talihina

19 0210CST 0 0 Hail (0.75)

Le Flore County
3 SE Talihina

19 0210CST 0 0 Thunderstorm Wind (G51)

Sequoyah County
Muldrow

19 0235CST 0 0 Hail (0.75)

Sequoyah County
Muldrow

19 0235CST 0 0 0.10K Thunderstorm Wind

Large tree limbs blown down.

Low pressure moved eastward across southern Oklahoma during the evening of March 18 and during the early morning of March 19. A broken line of severe thunderstorms developed over southeast Oklahoma just in advance of the low pressure system. The thunderstorms reached severe levels as they moved across Pittsburg and Pushmataha Counties between midnight and 1 AM. Then the storms weakened below severe limits as they travelled across Haskell and Latimer Counties between 1 and 2 AM. The storms strengthened again as they passed through Le Flore and Sequoyah Counties after 2 AM. The storms moved into Arkansas around 2:45 AM.

OKZ049-053>076

Pushmataha - Choctaw - Osage - Washington - Nowata - Craig - Ottawa - Pawnee - Tulsa - Rogers - Mayes - Delaware - Creek - Okfuskee - Okmulgee - Wagoner - Cherokee - Adair - Muskogee - McIntosh - Sequoyah - Pittsburg - Haskell - Latimer - Le Flore

27 0700CST
1300CST 0 0 24.5K High Wind

A powerful spring storm system moved quickly across the southern and central plains on March 27. High winds from the south developed across eastern Oklahoma during the morning in advance of, but not in direct association with, a band of showers. (The showers themselves were non-severe and did not even produce cloud-to-ground lightning until they moved east into Arkansas). For up



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OKLAHOMA, Eastern

to two hours in advance of the showers, widespread gradient winds were sustained above 30 miles an hour with frequent gusts over 45 miles an hour. Gusts of 50 to 60 miles an hour were not uncommon. One report of a 75 mph gust came in from Stilwell in Adair County. The Muskogee ASOS reported a peak wind gust of 51 mph, Bartlesville...48 mph, McAlester...46 mph, and Tulsa...43 mph.

At 820 am, a roof was blown off a barn 15 miles west of Welch in Craig County. At 855 am, a tree was blown down in west Tulsa at 42nd and Riverside. At 900 am, mobile homes were damaged and a billboard was blown down at Bearden in Okfuskee County. About the same time, the mesonet site at Okemah reported a wind gust of 50 miles an hour. Around 900 am, a steeple was blown off of a church in Sapulpa in Creek County. A house roof was damaged in Henryetta in Okmulgee County around 915 am. Later in the morning at 1150 am, power lines were blown down near Bernice in Delaware County, and a wood-frame carport was blown over at Grove.

| | | | | | | | | | |
|---|----|---------|--|--|---|---|--|--|-------------------------|
| Osage County Shidler | 30 | 1500CST | | | 0 | 0 | | | Hail (0.75) |
| Osage County Pawhuska | 30 | 1612CST | | | 0 | 0 | | | Hail (1.00) |
| Osage County Pawhuska | 30 | 1620CST | | | 0 | 0 | | | Hail (1.00) |
| Creek County Sapulpa | 30 | 1724CST | | | 0 | 0 | | | Hail (0.88) |
| Pittsburg County Canadian | 30 | 1814CST | | | 0 | 0 | | | Hail (0.75) |
| Mcintosh County 4 WNW Eufaula | 30 | 1815CST | | | 0 | 0 | | | Thunderstorm Wind (G54) |
| 62 mph tstm gust measured at Oklahoma mesonet site. | | | | | | | | | |
| Pittsburg County Indianola | 30 | 1816CST | | | 0 | 0 | | | Hail (0.75) |
| Pittsburg County Canadian | 30 | 1820CST | | | 0 | 0 | | | Hail (1.00) |
| Mcintosh County Eufaula | 30 | 1824CST | | | 0 | 0 | | | Thunderstorm Wind (G52) |
| Muskogee County 5 S Muskogee | 30 | 1844CST | | | 0 | 0 | | | Thunderstorm Wind (G52) |
| Muskogee County Warner | 30 | 1846CST | | | 0 | 0 | | | Hail (0.88) |
| Muskogee County 1 NE Warner | 30 | 1855CST | | | 0 | 0 | | | Funnel Cloud |
| Muskogee County Keefeton | 30 | 1900CST | | | 0 | 0 | | | Hail (0.88) |
| Pittsburg County Quinton | 30 | 1900CST | | | 0 | 0 | | | Hail (1.00) |
| Pushmataha County Moyers | 30 | 1900CST | | | 0 | 0 | | | Hail (1.00) |
| Haskell County Stigler | 30 | 1910CST | | | 0 | 0 | | | Hail (1.00) |
| Cherokee County 8 S Tahlequah | 30 | 1912CST | | | 0 | 0 | | | Hail (0.75) |
| Sequoyah County Vian | 30 | 1920CST | | | 0 | 0 | | | Hail (0.88) |
| Cherokee County Tahlequah | 30 | 1928CST | | | 0 | 0 | | | Thunderstorm Wind (G52) |



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OKLAHOMA, Eastern

| | | | | | | | | | |
|--------------------------|----|---------|------------------------------------|--|---|---|-------|--|-------------------------|
| Haskell County | | | | | | | | | |
| Tamaha | 30 | 1930CST | | | 0 | 0 | | | Hail (0.75) |
| Pushmataha County | | | | | | | | | |
| Clayton | 30 | 1930CST | | | 0 | 0 | | | Hail (0.75) |
| Sequoyah County | | | | | | | | | |
| 1 SW Sallisaw | 30 | 1931CST | | | 0 | 0 | | | Thunderstorm Wind (G52) |
| | | | Car blown off Interstate 40 | | | | | | |
| Muskogee County | | | | | | | | | |
| Braggs | 30 | 1932CST | | | 0 | 0 | | | Hail (0.75) |
| Muskogee County | | | | | | | | | |
| Braggs | 30 | 1932CST | | | 0 | 0 | | | Thunderstorm Wind (G61) |
| Adair County | | | | | | | | | |
| Proctor | 30 | 1940CST | | | 0 | 0 | | | Thunderstorm Wind (G52) |
| Sequoyah County | | | | | | | | | |
| Gans | 30 | 1950CST | | | 0 | 0 | 0.10K | | Thunderstorm Wind |
| | | | Several large tree limbs down | | | | | | |
| Pushmataha County | | | | | | | | | |
| Cloudy | 30 | 2000CST | | | 0 | 0 | | | Hail (0.88) |
| Ottawa County | | | | | | | | | |
| 3 SE Quapaw | 30 | 2010CST | | | 0 | 0 | | | Thunderstorm Wind (G50) |
| | | | Car blown off Will Rogers Turnpike | | | | | | |
| Le Flore County | | | | | | | | | |
| Spiro | 30 | 2016CST | | | 0 | 0 | | | Thunderstorm Wind (G52) |
| Delaware County | | | | | | | | | |
| 8 ENE Grove | 30 | 2020CST | | | 0 | 0 | 0.50K | | Thunderstorm Wind |
| | | | Power pole snapped | | | | | | |
| Le Flore County | | | | | | | | | |
| 5 SW Wister | 30 | 2025CST | | | 0 | 0 | | | Hail (0.75) |
| Le Flore County | | | | | | | | | |
| Wister | 30 | 2045CST | | | 0 | 0 | | | Hail (0.88) |

A wave of low pressure and a cold front moving across Oklahoma brought a solid line of thunderstorms to all of eastern Oklahoma on the afternoon and evening of March 30. While the line covered the entire north-south length of eastern Oklahoma, the vast majority of the severe weather remained to the south of Hwy. 412. Bow echo signatures appeared along the line in eastcentral Oklahoma. Rotation was indicated at the north end of the bow echo as it moved from near Eufaula to the Arkansas state line at West Siloam Springs. Quite a few reports of severe tstm winds and funnel clouds were common with this part of the line, but there were no known tornado touchdowns in Oklahoma.