



|  |                     | Time<br>Local/                         | Path<br>Length | Path<br>Width    | Numb<br>Pers           |                        | Estimated<br>Damage | December 1999      |  |
|--|---------------------|--|----------------|------------------|------------------------|------------------------|---------------------|--------------------|--|
| Location                                       | Date                | Standard                               | (Miles)        | (Yards)          | Killed                 | Injured                | Property Crops      | Character of Storm |  |
| OKLAHOMA, Western, Central and Southeast       |                     |  |                |                  |                        |                        |                     |                    |  |
| Comanche County<br>8 NNW Indiahoma             | 02                  | 1730CST                                |                |                  | 0                      | 0                      |                     | Hail (0.75)        |  |
| Kiowa County<br>5 E Snyder                     | 02                  | 1730CST                                |                |                  | 0                      | 0                      |                     | Hail (0.75)        |  |
| Tillman County<br>Frederick                    | 02                  | 1750CST                                |                |                  | 0                      | 0                      |                     | Hail (0.75)        |  |
| Tillman County<br>Hollister                    | 02                  | 1750CST                                |                |                  | 0                      | 0                      |                     | Hail (1.75)        |  |
| Kingfisher County<br>Kingfisher                | <b>02</b><br>Hail v | 1759CST<br>was reported on the         | e southwest si | ide of Kingfi    | 0<br>sher.             | 0                      |                     | Hail (0.75)        |  |
| Caddo County<br>8 NW Apache                    | 02                  | 1810CST                                |                |                  | 0                      | 0                      |                     | Hail (0.75)        |  |
| Caddo County<br>4 N Apache                     | 02                  | 1810CST                                |                |                  | 0                      | 0                      |                     | Hail (1.75)        |  |
| Oklahoma County<br>5 NW Edmond                 | 02                  | 1834CST                                |                |                  | 0                      | 0                      | 0.20K               | Thunderstorm Wind  |  |
| Canadian County<br>10 W El Reno                | 02                  | 1835CST                                |                |                  | 0                      | 0                      |                     | Hail (0.88)        |  |
| Logan County<br>5 SW Seward to<br>1 SW Seward  | <b>02</b><br>Refer  | 1836CST<br>1840CST<br>to summary at en | 4 d of Dec 2nd | 30 storm reports | <b>0</b> s for more in | <b>0</b><br>nformation | <b>3K</b> n.        | Tornado (F1)       |  |
| Caddo County 2 W Cyril                         | 02                  | 1840CST                                |                | ·                | 0                      | 0                      |                     | Hail (0.75)        |  |
| Comanche County 1 W Lawton                     | 02                  | 1840CST                                |                |                  | 0                      | 0                      |                     | Hail (0.75)        |  |
| Garfield County<br>Enid                        | 02                  | 1840CST                                |                |                  | 0                      | 0                      |                     | Hail (1.75)        |  |
| Logan County 2 WSW Seward to                   | 02                  | 1840CST                                |                |                  | 0                      | 0                      | 1K                  | Thunderstorm Wind  |  |
| 1 SW Seward  Logan County  1.5 W Seward        | 02                  | 1841CST                                |                |                  | 0                      | 0                      | 0.20K               | Thunderstorm Wind  |  |
| Comanche County 5 W Fletcher                   | 02                  | 1842CST                                |                |                  | 0                      | 0                      | 0.2011              | Hail (0.75)        |  |
| Logan County<br>6 SW Guthrie to<br>7 N Guthrie | 02                  | 1843CST<br>1901CST                     | 12             | 100              | 0                      | 1                      | 275K                | Tornado (F2)       |  |
|  | Refer               | to summary at en                       | d of Dec 2nd   | storm reports    | s for more in          | nformatio              | n.                  |                    |  |
| Comanche County 1 W Elgin                      | <b>02</b><br>Hail v | 1850CST<br>was reported on In          | terstate 44.   |                  | 0                      | 0                      |                     | Hail (1.00)        |  |
| Comanche County<br>1 E Fletcher                | <b>02</b><br>Hail w | 1905CST was reported on In             | terstate 44.   |                  | 0                      | 0                      |                     | Hail (1.75)        |  |
| Grady County<br>Chickasha                      | 02                  | 1907CST                                |                |                  | 0                      | 0                      |                     | Hail (0.75)        |  |





|  |                     | Time<br>Local/                         | Path<br>Length  | Path<br>Width        | Numb<br>Pers      | er of<br>ons          | Estimated<br>Damage      | December 19        |
|--|---------------------|--|-----------------|----------------------|-------------------|-----------------------|--------------------------|--------------------|
| Location                                     | Date                | Standard                               | (Miles)         | (Yards)              | Killed            | Injured               | Damage<br>Property Crops | Character of Storm |
| OKLAHOMA, Wester                             | rn, Cent            | tral and Southe                        | <u>east</u>     |                      |                   |                       |                          |                    |
| Noble County<br>Perry                        | 02                  | 1930CST                                |                 |                      | 0                 | 0                     |                          | Hail (1.75)        |
| Noble County<br>5 SSE Perry to<br>8 NE Perry | 02<br>Refer         | 1930CST<br>1945CST<br>to summary at en | 11 d of Dec 2nd | 300<br>storm reports | 0<br>s for more i | <b>0</b><br>nformatio | <b>38K</b>               | Tornado (F1)       |
| Grady County<br>7 S Chickasha                | 02                  | 1935CST                                |                 | Ţ                    | 0                 | 0                     |                          | Hail (0.88)        |
| Payne County<br>1 E Lake Blackwell           | 02                  | 1959CST                                |                 |                      | 0                 | 0                     |                          | Hail (0.75)        |
| Stephens County<br>6 SW Marlow               | 02                  | 2007CST                                |                 |                      | 0                 | 0                     |                          | Hail (1.00)        |
| Stephens County<br>Marlow                    | 02                  | 2010CST                                |                 |                      | 0                 | 0                     |                          | Hail (0.75)        |
| Stephens County<br>Comanche                  | 02                  | 2012CST                                |                 |                      | 0                 | 0                     |                          | Hail (1.00)        |
| Oklahoma County<br>Arcadia                   | 02                  | 2015CST                                |                 |                      | 0                 | 0                     |                          | Hail (0.75)        |
| Kay County 4 E Ponca City                    | 02                  | 2019CST                                |                 |                      | 0                 | 0                     | 1K                       | Thunderstorm Wind  |
| Stephens County<br>Duncan                    | <b>02</b><br>Hail v | 2020CST was reported on the            | e northeast sid | de of Duncar         | <b>0</b>          | 0                     |                          | Hail (0.75)        |
| Stephens County<br>6 SE Duncan               | 02                  | 2020CST                                |                 |                      | 0                 | 0                     |                          | Hail (1.00)        |
| Stephens County<br>5 SE Duncan               | 02                  | 2020CST                                |                 |                      | 0                 | 0                     |                          | Hail (1.25)        |
| Kay County<br>Kaw City                       | 02                  | 2027CST                                |                 |                      | 0                 | 0                     | 0.50K                    | Thunderstorm Wind  |
| Stephens County<br>6 SE Duncan               | <b>02</b><br>Hail v | 2028CST<br>was reported on Hi          | ighway 7.       |                      | 0                 | 0                     |                          | Hail (1.00)        |
| Oklahoma County<br>Nicoma Park               | <b>02</b><br>Hail v | 2030CST was reported on N              | E 23rd.         |                      | 0                 | 0                     |                          | Hail (0.75)        |
| Oklahoma County<br>Choctaw                   | 02                  | 2045CST                                |                 |                      | 0                 | 0                     |                          | Hail (0.75)        |
| Cleveland County<br>Norman                   | 02                  | 2050CST                                |                 |                      | 0                 | 0                     |                          | Hail (0.75)        |
| Oklahoma County<br>Newalla                   | 02                  | 2100CST                                |                 |                      | 0                 | 0                     |                          | Hail (0.75)        |
| Seminole County<br>3 NW Seminole             | 02                  | 2122CST                                |                 |                      | 0                 | 0                     |                          | Hail (1.00)        |
| Pottawatomie County<br>Mc Loud               | 02                  | 2130CST                                |                 |                      | 0                 | 0                     |                          | Hail (0.75)        |
| Garvin County<br>Pauls Valley                | 02                  | 2200CST                                |                 |                      | 0                 | 0                     |                          | Hail (1.00)        |





|          |      | Time     | Path    | Path    | Numb   | Number of |          | nated | December 1999      |
|----------|------|----------|---------|---------|--------|-----------|----------|-------|--------------------|
|          |      | Local/   | Length  | Width   | Pers   | sons      | Dar      | nage  |                    |
| Location | Date | Standard | (Miles) | (Yards) | Killed | Injured   | Property | Crops | Character of Storm |

#### OKLAHOMA, Western, Central and Southeast

| Pottawatomie County<br>Shawnee | 02                  | 2200CST                               | 0                                  | 0 | 50K   | Lightning      |
|--------------------------------|---------------------|---------------------------------------|------------------------------------|---|-------|----------------|
| Garvin County<br>4 SW Paoli    | <b>02</b><br>Hail v | 2210CST was reported on Interstate 3. | <b>0</b><br>5 near mile marker 77. | 0 |       | Hail (0.75)    |
| Garvin County<br>Whitebead     | 02                  | 2217CST                               | 0                                  | 0 |       | Hail (0.75)    |
| Pottawatomie County<br>Shawnee | 02                  | 2220CST                               | 0                                  | 0 | 0.50K | Thunderstorm W |

Severe thunderstorm formed first across portions western Oklahoma during the late afternoon of the 2nd and moved into the central Oklahoma during the evening. As these storms reached central Oklahoma, straight-line winds caused minor tree damage 5 miles northwest of Edmond in northwest Oklahoma County. At 1836 CST, a tornado formed 5 miles southwest of Seward in Logan County, near Western and Simmons Road where a shed was damaged. The tornado, rated F1, then tracked north-northeast for 4 miles before dissipating 1 mile southwest of Seward. Tree damage was observed at a home along Sante Fe Avenue, and a sign was damaged at Sante Fe and EW86 Road. The tornado continued north-northeast inflicting tree damage as it crossed EW85 Road between Santa Fe and Kelley, then dissipated between EW85 and EW84 Roads. Near the end of the tornado's path, a one-mile width of straight-line wind damage, consisting of scattered, light tree damage, was observed southwest of Seward along EW85 Road and between Sante Fe and Kelley Roads. Small trees were also damaged by straight-line winds near the intersection of Sante Fe and Seward Road, or about 1.5 miles west of Seward.

Another tornado then formed in Logan County about 6 miles southwest of downtown Guthrie along Kelley Avenue and about 1.2 miles south of Prarie Grove Road, where outbuildings received light damage. Very light damage was noted on Prairie Grove Road between Kelley and Broadway, and three power poles were downed along Industrial Road. The tornado crossed State Highway 33 where power poles were again downed. As it crossed State Highway 33, the tornado moved into the Cimarron National Golf Course and tracked down the 16th fairway. There was widespread tree damage along the eastern-most four holes of the golf course, and light damage to an outbuilding on the fringe of the tornado's path. The tornado then moved into a neighborhood adjacent to the golf course where a number of homes were damaged. One house, located on Canyon Road, suffered significant damage (rated F2) with most of the roof removed and some light damage to the walls. There was a minor injury reported at this home where a woman was cut by flying glass as she ran to take shelter. Two adjacent houses suffered roof damage. The framing to one home under construction was knocked off-center, and another house under construction received roof damage. The homes in this area looked to be well-built and of typical construction for newer homes. As the tornado traveled north-northeast, an old farmhouse on College Avenue received some minor roof and wall damage before the tornado crossed the Cimarron River. On the north side of the river, a mobile home roof was peeled off, and a permanent home received some minor damage along EW76 Road just to the east of NS311 Road. From this point northeast, damage was confined to trees in this rural area of Logan County. The tornado is believed to have crossed US Highway 77 once, and then dissipated in the Cimarron River Valley, traveling a distance of 12 miles

The third and final tornado of the day formed near EW55 Road and west of NS323 Road, or about 5 miles south-southeast of Perry in Noble County Oklahoma along North Stillwater Creek, producing tree damage. The tornado passed just west of the intersection of EW54 Road and NS323 Road, where a residential windmill and a hay barn were destroyed. Several 1500 pound cylindrical hay bales were blown 100 feet. The width of damage was estimated at 50 to 75 yards at this point. Sheet metal from the hay barn originally at this location was found 1/2 to 3/4 mile to the northeast along the west side of NS323 Road. Across the street (east) from the sheet metal remains of the hay barn, a metal frame/sheet metal exterior hay barn was pushed over to the north and the roof removed. One half mile north on EW53 Road, two wood utility poles were down. Sheet metal debris and grass caught in the barb wire fence indicated winds from the south-southwest. A total of 19 metal utility poles were blown over to the north along EW51 Road. The tornado crossed U.S. Highway 64 three miles east of downtown Perry, or at the intersection of NS324 Road. Damage width was estimated at 100 yards. A pole barn building used for auto repair was destroyed. Construction of this building consisted of 6x6 wooden uprights embedded in cement with a sheet metal exterior. Most of the building was carried away with a small amount of debris deposited on the north side of the slab. The owner stated that some of the 6x6 uprights were rotted near the footings. Across NS324 Road to the east of the auto repair building, a sheet metal hay barn lost its roof, and several smaller outbuildings were destroyed. Across Highway 64 to the northwest, a home suffered minor tree damage; a satellite dish was blown over and bent, and there was major damage to an outbuilding which was pushed over from the southwest. The tornado continued north crossing EW49 Road removing the roof from a hay barn and causing extensive tree damage. This F0 to low end F1 damage occurred in a 300 yard wide path at this point. One mile north on EW48 Road, a pole barn lost its roof and three walls, and extensive tree damage was noted. Two miles north, just south of EW46 Road, widespread, major tree damage was observed in a grove of trees along Black Bear Creek, and also on EW46 Road, where a hav barn filled with hav was destroyed. The tornado weakened rapidly after this point as it moved northeast, with the damage path ending somewhere just west of Red Rock Road (NS327 Road) and north of EW45 Road.

Northward in Kay County, straight-line winds destroyed a shed 4 miles east of Ponca City, and power lines were downed in Kaw





Time Path Path Number of Estimated December 1999
Location Date Standard (Miles) (Yards) Killed Injured Property Crops Character of Storm

#### OKLAHOMA, Western, Central and Southeast

City, while in Pottawatomic County power lines and 1 tree were downed at Wolverine and Leo Streets in downtown Shawnee, interrupting power to about 300 residences. Also in Shawnee, lightning struck a high-voltage conductor which fell onto a power line leading into several homes. Many of these homes received damage to appliances and electrical systems.

| Kiowa County<br>Snyder            | 03       | 2223CST   | 0 | 0            |      | Hail (0.75) |
|-----------------------------------|----------|---|---|--------------|------|-------------|
| Kiowa County<br>Mountain Park     | 03       | 2227CST   | 0 | 0            |      | Hail (0.75) |
| Kiowa County<br>Mountain Park     | 03       | 2229CST   | 0 | 0            |      | Hail (0.88) |
| Kiowa County<br>Snyder            | 03       | 2229CST   | 0 | 0            |      | Hail (1.00) |
| Kiowa County<br>4 S Mountain Park | 03       | 2235CST   | 0 | 0            |      | Hail (0.88) |
| Kiowa County<br>7 ENE Cooperton   | 03       | 2315CST   | 0 | 0            |      | Hail (1.00) |
| Canadian County<br>Yukon          | 04       | 0514CST   | 0 | 0<br>ma Daad | 2.5K | Lightning   |
| OKZ004>007-009>011-<br>016-021    | Č        | ng struck the carport roof of a real estate offic<br>- Woods - Alfalfa - Grant - Ellis - Woodwa |   | C            | · ·  |             |
| 010-021                           | 04<br>05 | 1900CST<br>0700CST  | 0 | 0            | 82K  | Heavy Snow  |
| Garfield County<br>Enid           | 05       | 0230CST   | 0 | 0            | 3.5K | Lightning   |

A winter storm accompanied by heavy snow and strong winds affected northwest Oklahoma from the evening of the 4th through the early morning of the 5th. Although snow fell across all of northwest Oklahoma, the heaviest snow, averaging between 4 and 8 inches, fell in a band approximately 50 miles wide. The band of heaviest snow fell in a southwest to northeast orientated band, and was bordered on the northwest by a line from Laverne to Buffalo, both in Harper County, and on the southeast by a line from Reydon in Roger Mills County to Burlington in Alfalfa County. The largest amount of snow fell in Arnett, which is in Roger Mills County, where 10 to 12 inches of snow was reported. Snow amounts tapered off very quickly to between 1 and 2 inches east of a line from Reydon to Burlington. Approximately 150 power poles were downed during the storm, the majority of them in Harper, Ellis, Woodward, and Woods Counties. In the city of Woodward in Woodward County, a carport collapsed on Sante Fe Road, while in Enid, which is in Garfield County, lightning struck the roof of a house on Rimrock Rd. producing 2 holes.

| Kiowa County<br>Lone Wolf         | 08 | 2018CST | 0 | 0 | Hail (1.00) |
|-----------------------------------|----|---------|---|---|-------------|
| Comanche County<br>Cache          | 08 | 2027CST | 0 | 0 | Hail (1.00) |
| Comanche County 3 N Medicine Park | 08 | 2030CST | 0 | 0 | Hail (1.75) |
| Kiowa County<br>Gotebo            | 08 | 2037CST | 0 | 0 | Hail (0.88) |
| Washita County<br>2 W Canute      | 08 | 2105CST | 0 | 0 | Hail (0.75) |
| Woodward County<br>Mutual         | 08 | 2150CST | 0 | 0 | Hail (0.88) |





| Location                                 | Date     | Time<br>Local/<br>Standard | Path<br>Length<br>(Miles) | Path<br>Width<br>(Yards) | Numb<br>Pers<br>Killed |                 | Estimated<br>Damage<br>Property Crops | December 1999 Character of Storm              |  |  |
|--|----------|----------------------------|---------------------------|--------------------------|------------------------|-----------------|---------------------------------------|---|--|--|
| OKLAHOMA, Western, Central and Southeast |          |                            |                           |                          |                        |                 |                                       |   |  |  |
| Woodward County<br>4 SE Quinlan          | 08       | 2203CST                    |                           |                          | 0                      | 0               |                                       | Hail (1.00)                                   |  |  |
| Caddo County<br>3 NNW Anadarko           | 08       | 2205CST                    |                           |                          | 0                      | 0               |                                       | Hail (0.88)                                   |  |  |
| Kiowa County<br>2 E Roosevelt            | 08       | 2205CST                    |                           |                          | 0                      | 0               |                                       | Hail (0.75)                                   |  |  |
| Kiowa County<br>3 E Mountain Park        | 08       | 2209CST                    |                           |                          | 0                      | 0               |                                       | Hail (0.88)                                   |  |  |
| Kiowa County<br>Mountain Park            | 08       | 2211CST                    |                           |                          | 0                      | 0               |                                       | Hail (0.88)                                   |  |  |
| Kiowa County<br>5 S Cooperton            | 08       | 2226CST                    |                           |                          | 0                      | 0               |                                       | Hail (1.00)                                   |  |  |
| Comanche County<br>5 S Meers             | 08       | 2322CST                    |                           |                          | 0                      | 0               |                                       | Hail (0.88)                                   |  |  |
| Caddo County<br>Hydro                    | 08<br>09 | 2330CST<br>0000CST         |                           |                          | 0                      | 0               | 0                                     | Flash Flood                                   |  |  |
| Comanche County<br>Medicine Park         | 08       | 2338CST                    |                           |                          | 0                      | 0               |                                       | Hail (0.88)                                   |  |  |
| Tillman County<br>11 N Grandfield        | 09       | 0123CST                    |                           |                          | 0                      | 0               |                                       | Hail (0.75)                                   |  |  |
| Stephens County<br>Velma                 | 09       | 0240CST                    |                           |                          | 0                      | 0               | 8K                                    | Thunderstorm Wind                             |  |  |
| Pottawatomie County<br>Shawnee           | 09       | 0315CST                    | Lover portions            | of western               | <b>0</b><br>Oklahoma d | 0<br>Juring the | 12K evening of the 8th an             | Lightning d moved eastward. At 2330 CST flash |  |  |

Thunderstorms formed over portions of western Oklahoma during the evening of the 8th and moved eastward. At 2330 CST flash flooding developed in Hydro in Caddo County. Between 3 and 5 inches of rain fell in this area causing water, estimated to be 10 inches deep, to flow across a portion of Highway 58. During the early morning of the 9th, a shop was damaged; a carport was destroyed, and a small barn was blown over in Velma in Stephens County, while in Shawnee in Pottawatomie County, lightning struck a house on Castle Creek Road, exploding a hole in the living room ceiling, destroying a part of the chimney, and damaging the plumbing and electrical systems.

### TEXAS, Western North

| Wilbarger County<br>13 W Vernon | 02                  | 1618CST                             | 0   | 0                   | Hail (0.88) |
|---------------------------------|---------------------|-------------------------------------|---|---------------------|-------------|
| Clay County<br>5 W Bluegrove    | 02                  | 1830CST                             | 0   | 0                   | Hail (0.75) |
| Wilbarger County<br>1 E Harrold | 08                  | 1928CST                             | 0   | 0                   | Hail (0.75) |
| Wichita County<br>Electra       | <b>09</b><br>Hail v | 0053CST was reported at the interse | <b>0</b><br>ction of Highway 287 and High | <b>0</b><br>way 25. | Hail (0.88) |