



National Weather Service

Storm Data and Unusual Weather Phenomena



June 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
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OKLAHOMA, Western, Central and Southeast

Bryan County Calera	04	1835CST			0	0	0.75K		Thunderstorm Wind
Telephone poles were blown down.									
Bryan County Cartwright	04	1835CST			0	0	0.50K		Thunderstorm Wind
Trees were blown down.									
Bryan County Calera	04	1850CST			0	0	100K		Thunderstorm Wind
Significant and widespread wind damage was reported in Calera. A roof was blown off a trailer house on the east side of town, at least three trailer houses were destroyed, and one brick home was damaged by downed trees. Numerous barns and outbuildings were damaged and/or unroofed. Three businesses in an industrial complex at the airport sustained structural damage. Fifteen other businesses received minor damage.									
Bryan County 5.5 SE Durant	04	1855CST			0	0	0.50K		Thunderstorm Wind
Trees up to 2.5 feet in diameter were blown down.									
Bryan County Durant	04	1855CST			0	0	150K		Thunderstorm Wind (G60)
Severe thunderstorm winds estimated at 70 mph caused major damage in and around Durant. At least 4 businesses in downtown sustained damage. A building was unroofed on Main Street and a nearby clinic was partially unroofed. The roof of a feed store was blown off and then tossed onto a car. The Walmart greenhouse was also blown away. Buildings in an industrial park suffered damage to overhead doors and one building had a corner blown out. Choctaw Bingo reported damage to awnings and the roof. Outbuildings at approximately 6 residences just north of the airport were damaged or destroyed. 1000-gallon tanks were blown over at 21st and Evergreen. Several trees up to 1-foot in diameter were uprooted and numerous fences were blown down. One downed tree landed on the roof of a fire station, causing \$2500 in damage.									
Bryan County Roberta	04	1900CST			0	0	25K		Thunderstorm Wind
A trailer house was destroyed.									
Bryan County Bokchito	04	1915CST			0	0	0.50K		Thunderstorm Wind
Severe thunderstorm winds downed large trees.									
Summary of events of June 4, 1998:									
Severe thunderstorms over Bryan County produced widespread wind and hail damage. Hardest-hit was Calera, where 3 mobile homes were destroyed, 2 other mobile homes sustained major damage, and 2 houses were damaged. Durant also reported extensive damage to roofs, outbuildings, and trees.									
See preceding individual Storm Data entries for further details and additional reports.									
Harper County 7 NW Laverne	07	1637CST			0	0			Hail (0.75)
Harper County 9 E Selman	07	1720CST			0	0			Hail (1.25)
Woods County 1 SW Plainview	07	1730CST			0	0			Hail (0.75)
Woods County 13 NW Alva	07	1756CST			0	0			Hail (0.75)
Marshall County Madill	07	2255CST			0	0			Hail (0.75)
Grady County Cox City	08	0600CST			0	0			Hail (1.00)



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OKLAHOMA, Western, Central and Southeast

Mcclain County									
Purcell	08	0615CST			0	0	20K		Thunderstorm Wind
Severe thunderstorm winds estimated at 70 to 80 mph downed large trees and power lines in town. One large tree was uprooted and landed on a minivan. Another uprooted tree landed on power lines, cutting power to most of the south part of town.									
Washita County									
3 N Cordell	08	1400CST			0	0			Hail (1.75)
Washita County									
Cordell	08	1415CST			0	0			Hail (1.00)
Washita County									
4 ENE Colony	08	1420CST			0	0			Thunderstorm Wind (G52)
Caddo County									
Hinton	08	1439CST			0	0			Hail (1.75)
Major County									
Cleo Spgs	08	1440CST			0	0	0.01K		Thunderstorm Wind
Severe thunderstorm winds downed five-inch tree limbs.									
Caddo County									
2 SE Hinton	08	1441CST			0	0			Hail (1.75)
Caddo County									
2 SE Hinton	08	1441CST			0	0			Thunderstorm Wind (G52)
Alfalfa County									
3 WSW Helena	08	1449CST			0	0			Hail (0.75)
Canadian County									
12 SW El Reno	08	1500CST			0	0			Hail (1.25)
Canadian County									
5 WNW El Reno	08	1505CST			0	0			Thunderstorm Wind (G59)
Measured by the Oklahoma Mesonet									
Canadian County									
5 S Calumet	08	1510CST			0	0			Hail (1.75)
Canadian County									
5 S Calumet	08	1510CST			0	0	15K		Thunderstorm Wind
Severe thunderstorm winds (combined with golf ball sized hail) blew 3 windows out of homes and downed numerous trees, several billboards, and other signs.									
Canadian County									
Yukon	08	1515CST			0	0	1K		Lightning
Lightning struck a house and blew a hole in the roof.									
Canadian County									
El Reno	08	1520CST			0	0	50K		Thunderstorm Wind
Severe thunderstorm winds snapped and uprooted trees and large limbs, damaging homes, businesses, and cars.									
Garfield County									
Hillsdale	08	1523CST			0	0			Hail (0.88)
Garfield County									
Hillsdale	08	1523CST			0	0			Thunderstorm Wind (G52)
Canadian County									
Yukon	08	1530CST			0	0			Hail (1.75)
On the north and west sides of town									
Oklahoma County									
Oklahoma City	08	1535CST			0	0			Hail (0.88)



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OKLAHOMA, Western, Central and Southeast

Reported at NW 63rd and May.									
Oklahoma County Oklahoma City	08	1535CST			0	0			Hail (2.75)
Reported at NW 63rd and Meridian									
Oklahoma County Oklahoma City	08	1535CST			0	0			Hail (1.75)
Reported at NW 63rd and Meridian									
Oklahoma County Oklahoma City	08	1537CST			0	0			Hail (1.75)
Reported at NW 63rd and Portland.									
Grant County 2 W Salt Fork	08	1540CST			0	0			Hail (1.50)
Vehicle windows were broken.									
Oklahoma County Oklahoma City	08	1545CST			0	0			Hail (1.00)
Occurred at 39th and McArthur									
Oklahoma County Oklahoma City	08	1545CST			0	0	0.50K		Thunderstorm Wind
Severe thunderstorm winds downed numerous 6 to 10 -inch diameter trees.									
Grant County Salt Fork	08	1550CST			0	0			Hail (1.50)
Garfield County 2 E Hunter	08	1553CST			0	0			Hail (1.75)
Caddo County 8.5 E Anadarko	08	1601CST			0	0			Hail (0.75)
Kay County Blackwell	08	1613CST			0	0			Hail (0.75)
Kay County 8 S Ponca City	08	1615CST			0	0			Hail (0.75)
Kay County Ponca City	08	1615CST			0	0			Hail (1.75)
Hail as large as golf balls caused extensive window and roof damage across the northern half of Ponca City. One apartment complex alone lost over 100 windows to the hail.									
Kay County Blackwell	08	1617CST			0	0	50K		Lightning
Lightning struck the roof of a funeral home, blowing one 3-foot hole, and 3 grapefruit-sized holes in the roof. The bolt set fire to the attic, causing extensive damage to the structure and its contents.									
Kay County Ponca City	08	1620CST			0	2			Hail (2.75)
A man and an elderly woman were injured when they were caught outside in the hailstorm. The woman was taken to a local hospital and treated for cuts and bruises from the hail and a fractured hip.									
Grady County 5 NW Chickasha	08	1625CST			0	0			Hail (0.88)
Kay County (Pnc)Ponca City Arpt	08	1630CST			0	0			Hail (1.50)
Kay County Kildare	08	1630CST			0	0			Hail (1.75)



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OKLAHOMA, Western, Central and Southeast

Kay County									
Kildare	08	1630CST			0	0			Hail (1.00)
Kay County									
Kaw City	08	1640CST			0	0			Hail (1.75)
Mcclain County									
3 W Newcastle	08	1655CST			0	0			Hail (1.00)
Occurred at the intersection of Highways 130 and 76									
Cleveland County									
Norman	08	1700CST 1745CST			0	0	500K		Hail (1.75)
Severe thunderstorm winds and hail as large as golf balls caused widespread damage in Norman, particularly in south-central and southwest parts of town. Hundreds of glass window panes at the University of Oklahoma were broken. Car windows were broken, large tree limbs were downed, and two trees were blown over onto a house. The severe winds also toppled a 140-ton crane (with damage estimated at \$250,000).									
Grady County									
23 NE Chickasha	08	1705CST			0	0			Hail (1.75)
Mcclain County									
5 W Newcastle	08	1705CST			0	0			Hail (1.75)
Mcclain County									
Newcastle	08	1705CST			0	0			Hail (0.88)
Cleveland County									
Norman	08	1710CST			0	0			Hail (1.75)
Occurred on the west side of town									
Cleveland County									
Norman	08	1710CST			0	0			Hail (1.50)
Cleveland County									
Norman	08	1710CST			0	0			Thunderstorm Wind (G50)
Occurred on the west side of town									
Cleveland County									
Norman	08	1710CST			0	0			Thunderstorm Wind (G56)
Severe thunderstorm winds up to 65 mph downed large trees.									
Oklahoma County									
Oklahoma City	08	1711CST			0	0			Hail (0.88)
Reported at 89th and Penn.									
Cleveland County									
Norman	08	1723CST			0	0			Hail (1.75)
Logan County									
10 WSW Seward	08	1800CST			0	0			Hail (0.88)
Pottawatomie County									
1 ESE Tecumseh	08	1804CST			0	0			Hail (0.75)
Pottawatomie County									
1 ESE Tecumseh	08	1810CST			0	0			Hail (1.75)
Pottawatomie County									
3.5 WSW Maud to .5 S Maud	08	1811CST 1813CST	2.5	50	0	0			Tornado (F1)
Surveys revealed that a narrow tornado touched down around 711 pm 3 miles west-southwest of Maud destroyed a barn, then moved east destroying another barn about one-half mile south of Maud as it crossed into Seminole county. It lifted 1/2 mile east of the county line in Seminole County at around 715 pm. The tornado was rated F1.									



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OKLAHOMA, Western, Central and Southeast

Seminole County

12 WSW Wewoka to 11 WSW Wewoka	08	1813CST 1815CST	1	50	0	0			Tornado (F1)
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Surveys revealed that a narrow tornado touched down around 711 pm 3 miles west-southwest of Maud in Pottawatomie County where it destroyed a barn. The tornado then moved east destroying another barn about one-half mile south of Maud as it crossed into Seminole county. It lifted 1/2 mile east of the Seminole County line at around 715 pm. The tornado was rated F1.

Pottawatomie County

5 E Shawnee	08	1815CST			0	0			Hail (0.88)
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Seminole County

6 SW Seminole	08	1822CST			0	0			Hail (4.50)
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Pottawatomie County

2 W Macomb	08	1830CST			0	0	1K		Thunderstorm Wind
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Trees and power lines were blown down.

Seminole County

2.5 SW Wewoka to 3.5 ESE Wewoka	08	1835CST 1845CST	6	440	0	0			Tornado (F2)
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Surveys showed that at about 735 pm, a tornado touched down about 1/2 mile southwest of the intersection of US-270 and SH-59, or about 2.5 miles southwest of Wewoka. The storm moved east through the south side of Wewoka causing damage in a neighborhood in the southwest side of Wewoka and along state highway 56 in the south part of town. The tornado continued moving east destroying two mobile homes southeast of Wewoka before crossing into Hughes County. It caused minor damage to a couple of homes and unroofed a mobile home near State Highway 48. The tornado then turned northeast and apparently merged with the Yeager tornado (see separate Storm Data entry) just northeast of the intersection of State Highway 48 and county road EW129.

This tornado was on the ground for 8 miles and had a maximum width of 1/3 of a mile. The tornado was rated F2 (winds estimated between 113 and 157 mph) based on damage in southwest Wewoka including a brick house unroofed and the south exterior wall blown in. Eyewitness reports indicate that this was likely a multiple vortex tornado.

Hughes County

5 WSW Yeager to 3 W Yeager	08	1845CST 1850CST	2	440	0	0			Tornado (F2)
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Surveys showed that at about 735 pm, a tornado touched down about 1/2 mile southwest of the intersection of US-270 and SH-59, or about 2.5 miles southwest of Wewoka. The storm moved east through the south side of Wewoka causing damage in a neighborhood in the southwest side of Wewoka and along state highway 56 in the south part of town. The tornado continued moving east destroying two mobile homes southeast of Wewoka before crossing into Hughes County. It caused minor damage to a couple of homes and unroofed a mobile home near State Highway 48. The tornado then turned northeast and apparently merged with the Yeager tornado (see separate Storm Data entry) just northeast of the intersection of State Highway 48 and county road EW129.

This tornado was on the ground for 8 miles and had a maximum width of 1/3 of a mile. The tornado was rated F2 (winds estimated between 113 and 157 mph) based on damage in southwest Wewoka including a brick house unroofed and the south exterior wall blown in. Eyewitness reports indicate that this was likely a multiple vortex tornado.

Hughes County

4.5 WSW Yeager to 4 E Yeager	08	1850CST 1915CST	8	587	0	0			Tornado (F2)
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Surveys revealed that this tornado formed about a mile east of the intersection of State Highway 48 and county road EW129. About one mile after touching down, the Wewoka tornado apparently merged with it. This tornado damaged a house and destroyed numerous pecan trees shortly after the merger. The tornado moved east passing one-half mile south of the town of Yeager, but overturning a mobile home and downing power lines along a railroad just south of town. The tornado then began moving east-northeast as it moved south of Yeager. It completely destroyed a mobile home and toppled an oil pumping jack and storage tank east of Yeager. The last damage was a barn damaged 4 miles east of Yeager and the tornado lifted at 815 pm.

The Yeager tornado was on the ground for 8 miles with a maximum width of four-tenths of a mile. This tornado was rated F2 (winds estimated between 113 and 157 mph) based on the destruction of a mobile home east of Yeager.

Canadian County

12 WSW El Reno	08	1900CST			0	0			Hail (0.88)
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Canadian County

El Reno	08	1929CST			0	0			Hail (0.75)
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Canadian County

El Reno	08	1931CST			0	0			Hail (1.00)
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OKLAHOMA, Western, Central and Southeast

Oklahoma County Oklahoma City	08	2000CST			0	0			Thunderstorm Wind (G56)
Occurred at 63rd and McArthur									
Oklahoma County Oklahoma City	08	2005CST			0	0			Hail (0.88)
Occurred at Northwest Expressway and Rockwell									
Lincoln County 3 SW Wellston	08	2030CST			0	0			Hail (0.88)
Lincoln County 3 SW Wellston	08	2030CST			0	0			Thunderstorm Wind (G61)
Wind gusts were estimated between 60 and 70 mph.									
Oklahoma County 2 NE Choctaw	08	2045CST			0	0			Hail (1.75)
Lincoln County Countywide	08	2050CST 2120CST			0	0	10K		Thunderstorm Wind
Severe thunderstorm winds caused extensive tree damage across the southern half of Lincoln County. Numerous trees up to 5-feet in diameter were destroyed by the severe winds.									
Lincoln County 6 S Warwick	08	2115CST			0	0	2K		Thunderstorm Wind (G61)
Severe thunderstorm winds estimated at 60 to 70 mph destroyed a garage under construction.									
Marshall County Madill	08	2255CST			0	0			Hail (0.75)
Summary of events of June 8, 1998:									
Severe thunderstorms developed and moved across much of Oklahoma during the afternoon and evening of the 8th, producing hail as large as softballs, wind gusts to 70 mph, and 3 tornadoes.									
The tornadoes were spawned by a single storm between 6 and 715 pm CST in Pottawatomie and Seminole Counties. The first tornado (an F1) touched down 3.5 miles west-southwest of Maud in Pottawatomie County, moved east into Seminole County, lifting about 11 miles west-southwest of Wewoka. The second tornado (rated F2) touched down 2.5 miles southwest of Wewoka in Seminole County, moved east through Wewoka, and crossed into Hughes County. Meanwhile, the third tornado (also an F2) developed about 4.5 miles west-southwest of Yeager in Hughes County. These two tornadoes then merged about 3.5 miles southwest of Yeager and continued east until they lifted 4 miles east of Yeager.									
This tornadic thunderstorm also produced hail as large as softballs southwest of Seminole in Seminole County. Baseball sized hail was reported with a different storm in Oklahoma City in Oklahoma County. Widespread hail and wind damage occurred in Ponca City in Kay County and in Norman in Cleveland County.									
Wind gusts were estimated as high as 70 mph near Wellston and Warwick in Lincoln County. Significant thunderstorm wind damage occurred throughout Lincoln County, in Purcell in McClain County, and near Calumet and El Reno in Canadian County.									
See preceding individual Storm Data entries for further details and additional reports.									
Cotton County 4 S Randlett	09	1630CST			0	0			Hail (0.75)
Cotton County 5 S Randlett	09	1700CST			0	0			Hail (1.75)
Jefferson County 5 W Waurika	09	1730CST			0	0			Thunderstorm Wind (G61)
Murray County Davis	09	1738CST			0	0			Hail (0.75)
Murray County 2 SE Davis	09	1743CST			0	0	0.01K		Thunderstorm Wind (G52)



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OKLAHOMA, Western, Central and Southeast

Severe thunderstorm winds up to 60 mph downed tree limbs up to 5 inches in diameter.

Murray County
2 SE Davis

09 1745CST 0 0 Hail (0.88)

Carter County
Healdton

09 1758CST
1810CST 0 0 Thunderstorm Wind (G70)

Carter County
3 S Healdton

09 1800CST 0 0 7.5K Thunderstorm Wind

Severe winds damage a trailer home and a storage building. Large trees were also downed by the severe thunderstorm winds.

Carter County
6 W Wilson

09 1800CST 0 0 5K Thunderstorm Wind

Thunderstorm winds destroyed a barn.

Carter County
2 W Wilson

09 1800CST 0 0 1K Thunderstorm Wind

A fruit stand roof was blown into a house.

Carter County
3 W Wilson

09 1800CST 0 0 10K Thunderstorm Wind

A house roof was blown off and 2 trailer homes were destroyed.

Carter County
5 SW Wilson

09 1800CST 0 0 40K Thunderstorm Wind

Severe thunderstorm winds tore the roofs off several houses.

Jefferson County
3 W Ringling

09 1801CST 0 0 Hail (1.00)

Jefferson County
3 W Ringling

09 1801CST 0 0 Thunderstorm Wind (G74)

Jefferson County
Ringling

09 1805CST 0 0 30K Thunderstorm Wind (G69)

Severe thunderstorm winds estimated at 70 to 80 mph caused extensive damage in Ringling. One carport and several metal sheds were destroyed. A barn was blown away, leaving the setting hens still sitting (unharmd), but killing 4 turkeys. Another barn suffered major damage. Porches were also torn from homes. One covered porch was torn from the front of a house and blown over the house into the back yard. Numerous large trees were uprooted. Roof damage was extensive, particularly on the south side of town. In one unusual case, an asphalt shingle was torn from a roof and wedged between the door and window glass of a truck. Neither the door or window were damaged.

Jefferson County
Ryan

09 1805CST 0 0 10K Thunderstorm Wind

Severe thunderstorm winds tore awnings from businesses and destroyed signs. Trees were downed and roofs were damaged throughout town. Four 40-foot utility poles were also blown down by the severe winds.

Murray County
Sulphur

09 1805CST 0 0 Hail (0.88)

Carter County
Wilson

09 1815CST 0 0 5K Thunderstorm Wind

Severe thunderstorm winds overturned a mobile home and damaged numerous roofs. Power lines were also blown down in the area.

Love County
Marietta

09 1825CST 0 0 0.50K Thunderstorm Wind

Severe thunderstorm winds downed trees and power lines.

Love County
9 W Marietta

09 1831CST 0 0 0.60K Thunderstorm Wind

Trees and power lines were blown down.



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OKLAHOMA, Western, Central and Southeast

Carter County Lone Grove	09	1835CST			0	0	0.60K		Thunderstorm Wind
Trees and power lines were blown down.									
Marshall County Powell	09	1854CST			0	0			Thunderstorm Wind (G52)
Carter County Wilson	09	1900CST			0	0	5K		Thunderstorm Wind
Severe thunderstorm winds destroyed signs, downed limbs, and damaged roofs in Wilson.									
Johnston County Connerville	09	1900CST			0	0	0.60K		Thunderstorm Wind
Several trees and power lines were blown down.									
Johnston County Countywide	09	1900CST			0	0	20K		Thunderstorm Wind (G69)
Severe thunderstorm winds were estimated at 70 to 80 mph across northern Johnston County. Trees and power lines were downed throughout the area. A hay barn and mobile home in Connerville lost their roofs, a tree was downed onto a car in Wapanucka, and a storage building was destroyed in Tishomingo.									
Marshall County Kingston	09	1900CST			0	1	12K		Thunderstorm Wind
Severe thunderstorm winds downed a large tree onto a mobile home. A woman suffered a broken leg when the tree struck her as she was fleeing the mobile home.									
Marshall County Kingston	09	1905CST			0	0			Thunderstorm Wind (G78)
Severe thunderstorm winds estimated at 90 mph downed several trees.									
Pontotoc County 7 S Fittstown	09	1905CST			0	0			Hail (0.75)
Pontotoc County 7 S Fittstown	09	1905CST			0	0			Thunderstorm Wind (G61)
Love County 2 NE Thackerville	09	1915CST			0	0	0.01K		Thunderstorm Wind
Severe winds downed 2-inch tree limbs.									
Atoka County Atoka	09	1930CST 2000CST			0	0			Thunderstorm Wind (G64)
Severe thunderstorm wind gusts were measured at up to 74 mph by local officials. Damage in Atoka was extensive. The severe winds partially unroofed the elementary school gymnasium and scattered debris across a neighboring playground. The roof was also torn off the high school gymnasium. A large tree was uprooted and toppled onto a car and porch roof. Other large trees and power lines were downed throughout town.									
Atoka County 2 W Atoka	09	1936CST			0	0			Hail (0.88)
Atoka County Atoka	09	1936CST			0	0			Thunderstorm Wind (G61)
Severe thunderstorm winds downed large trees.									
Bryan County Durant	09	1940CST			0	0			Hail (1.00)
Bryan County Durant	09	1940CST			0	0			Thunderstorm Wind (G70)
Tillman County 2 S Tipton	09	1940CST			0	0			Hail (1.00)



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OKLAHOMA, Western, Central and Southeast

Bryan County									
Achille	09	1945CST			0	0			Thunderstorm Wind (G61)
Severe thunderstorm winds estimated at 60 to 70 mph tore the roof off a mobile home and damaged numerous other roofs across town. Several large trees were toppled.									
Bryan County									
Durant	09	1945CST			0	0			Thunderstorm Wind (G52)
Severe thunderstorm winds estimated at 60 mph caused extensive roof damage to 2 businesses.									
Coal County									
Coalgate	09	1945CST			0	0			Hail (0.88)
Coal County									
Coalgate	09	1945CST			0	0	0.60K		Thunderstorm Wind
Severe thunderstorm winds downed trees and power lines.									
Tillman County									
Tipton	09	1950CST			0	0			Hail (1.00)
Atoka County									
Atoka	09	2000CST			0	0			Thunderstorm Wind (G61)
Atoka County									
Farris	09	2006CST			0	0			Hail (1.75)
Comanche County									
1 W Chattanooga	09	2015CST			0	0			Hail (0.88)
Tillman County									
18 E Frederick	09	2015CST			0	0			Hail (0.88)
Cotton County									
12 N Devol	09	2023CST			0	0			Hail (0.75)
Comanche County									
Faxon	09	2025CST			0	0			Hail (0.75)
Cotton County									
6 NW Walters	09	2044CST			0	0			Hail (0.75)
Cotton County									
6 NW Walters	09	2044CST			0	0			Thunderstorm Wind (G52)
Cotton County									
1 NW Walters	09	2055CST			0	0			Thunderstorm Wind (G58)
Measured by the Oklahoma Mesonet									
Comanche County									
Lawton	09	2146CST			0	0			Hail (0.75)
Comanche County									
Lawton	09	2200CST			0	0			Hail (0.88)
Stephens County									
2 NE Duncan	09	2221CST			0	0			Hail (0.88)
Carter County									
Ratliff City	09	2222CST			0	0			Hail (1.75)
Murray County									
3 W Davis	09	2238CST			0	0			Hail (1.00)
Stephens County									
7 SE Marlow	09	2250CST			0	0			Hail (1.25)
Murray County									
2 W Sulphur	09	2254CST			0	0			Hail (1.75)



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June 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
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OKLAHOMA, Western, Central and Southeast

Pontotoc County 2 S Roff	09	2256CST			0	0			Hail (1.00)
Pontotoc County Roff	09	2303CST			0	0	0.01K		Thunderstorm Wind
Severe winds downed large tree limbs.									
Kiowa County Mountain View	09	2310CST			0	0			Hail (1.00)
Washita County 8 S Cowden	09	2315CST			0	0			Hail (1.00)
Washita County 8 S Cowden	09	2315CST			0	0			Thunderstorm Wind (G52)
Kiowa County Mountain View	09	2325CST			0	0			Hail (1.75)
Kiowa County Mountain View	09	2325CST			0	0			Thunderstorm Wind (G52)
Coal County Countywide	09 10	2355CST 0010CST			0	0	80K		Thunderstorm Wind (G52)

Severe thunderstorm winds estimated at 60 mph caused widespread damage across Coal County. Trees and power poles were downed throughout the county. The most extensive structural damage occurred in Coalgate where several roofs were blown off houses, barns were damaged or destroyed, a restaurant lost its roof, and a lumberyard sustained \$25,000 in damage to its roof. Countless trees and power poles were toppled, including several large trees that landed on buildings. Other structural damage was reported in Lehigh and Centrahoma. In Lehigh a porch was destroyed and the roof was torn off an office building. In Centrahoma an unoccupied mobile home was literally wrapped around a tree and destroyed by the severe winds.

Coal County Tupelo	10	0055CST			0	0			Lightning
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Lightning struck an oil storage tank, causing it to explode.

Summary of events of June 9, 1998:

Severe thunderstorms moved across southern Oklahoma during the evening of the 9th, lasting into the very early morning hours of the 10th. Although a few reports of large hail were received, severe thunderstorm winds caused by far the most damage. Wind gusts were estimated at 85 mph west of Ringling in Jefferson County and at 90 mph in Kingston in Marshall County. Significant wind damage occurred around Healdton and Wilson in Carter County, in Ringling and Ryan in Jefferson County, and in Atoka in Atoka County. Widespread damage occurred in Johnston, Marshall, and Coal Counties.

See preceding individual Storm Data entries for further details and additional reports.

Johnston County 3 S Tishomingo	10	1334CST			0	0			Hail (2.00)
Pontotoc County Roff	10	1345CST			0	0	10K		Thunderstorm Wind
Severe thunderstorm winds unroofed a house.									
Pontotoc County Roff	10	1350CST			0	0	25K		Thunderstorm Wind
Severe thunderstorm winds tore the roof off a 100-year-old historic bank and partially unroofed the high school gymnasium.									
Murray County Sulphur	10	1400CST			0	0	2K		Thunderstorm Wind
Severe thunderstorm winds downed large trees and signs around Sulphur.									
Pontotoc County Ada	10	1400CST			0	0	0.10K		Thunderstorm Wind



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OKLAHOMA, Western, Central and Southeast

Severe winds downed trees.

Seminole County									
Bowlegs	10	1450CST			0	0			Thunderstorm Wind (G52)

Garfield County									
Enid	10	1710CST 1720CST			0	0			Thunderstorm Wind (G61)

Severe thunderstorm winds estimated at 70 mph downed numerous trees onto power lines, and at least one tree landed on a house. A shed was also blown into a car.

Garfield County									
Enid	10	1720CST 1740CST			0	0			Hail (1.00)

Garfield County									
Enid	10	1720CST			0	0			Thunderstorm Wind (G61)

Thunderstorm wind gust of 70 mph was reported by a spotter.

Garfield County									
Enid	10	1720CST 1740CST			0	0	0.50K		Thunderstorm Wind

Severe thunderstorm winds wrapped a trampoline around a pole and downed many tree limbs.

Garfield County									
Vance Afb	10	1723CST			0	0			Thunderstorm Wind (G50)

Garfield County									
Enid	10	1730CST			0	0			Thunderstorm Wind (G61)

Garfield County									
Kremlin	10	1730CST			0	0	0.50K		Thunderstorm Wind

Power lines were blown down.

Bryan County									
Achille	10	1928CST			0	0			Thunderstorm Wind (G61)

Bryan County									
Achille	10	1930CST			0	0	12K		Thunderstorm Wind

Severe thunderstorm winds ripped the roof off a mobile home and downed power lines and large trees.

Bryan County									
Calera	10	1930CST			0	0	2K		Thunderstorm Wind

Severe thunderstorm winds blew siding off a house, tore the roof from a fruit stand, and downed many trees.

Bryan County									
Durant	10	1930CST			0	0	10K		Thunderstorm Wind

Roofs were blown off of downtown buildings.

Bryan County									
Achille	10	1937CST			0	0			Thunderstorm Wind (G52)

Bryan County									
3 NE Colbert	10	2000CST			0	0	10K		Thunderstorm Wind

A mobile home was blown over.

Stephens County									
Duncan	10	2128CST			0	0			Hail (1.00)

Stephens County									
2 NE Duncan to Duncan	10	2141CST			0	0			Hail (0.75)

Comanche County									
Cache	11	0030CST			0	0	20K		Lightning

Lightning struck and set fire to 2 buildings at an old amusement park. Both buildings were completely destroyed.



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OKLAHOMA, Western, Central and Southeast

Jefferson County

10 E Waurika	11	0030CST			0	0	0.10K		Thunderstorm Wind
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Large tree limbs were blown down.

Mcclain County

2 W Newcastle	11	0045CST			0	0	0.10K		Thunderstorm Wind
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A six to eight foot diameter tree was blown down.

Summary of events of June 10th, 1998:

Severe thunderstorms formed during the afternoon across central and northern Oklahoma, spreading into southern Oklahoma during the evening. Thunderstorm wind damage was widespread, with only a few reports of large hail. Wind gusts were estimated to be 70 mph in Enid in Garfield County and in Achille in Bryan County. Significant wind damage occurred in Roff (Pontotoc County), in Sulphur (Murray County), in Enid (Garfield County), and across much of Bryan County.

See preceding individual Storm Data entries for further details and additional reports.

Love County

2 E Rubottom	12	1834CST			0	0			Hail (0.75)
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Love County

5 E Rubottom	12	1835CST			0	0			Hail (1.00)
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Love County

6 N Burneyville	12	1847CST			0	0			Hail (0.75)
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Garfield County

4 W Hunter	13	1515CST			0	0			Hail (0.75)
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Dewey County

4 NW Lenora	13	1525CST			0	0			Hail (0.88)
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Blaine County

1 W Longdale	13	1545CST	0.1	10	0	1			Tornado (F0)
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The Blaine County Sheriff reported a brief tornado. One child was injured with extent of injuries unknown. Several trees were also damaged.

Blaine County

Watonga	13	1556CST			0	0			Hail (0.75)
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Garfield County

6 S Drummond	13	1635CST			0	0			Hail (2.50)
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Kingfisher County

3 S Kingfisher	13	1638CST			0	0			Hail (1.25)
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Garfield County

2 N Hillsdale	13	1645CST			0	0			Thunderstorm Wind (G65)
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Severe thunderstorm winds estimated at 75 mph downed power lines on Highway 32.

Garfield County

Waukomis	13	1645CST			0	0			Hail (2.00)
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Grant County

4 S Nash	13	1645CST			0	0			Thunderstorm Wind (G65)
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Severe thunderstorm winds estimated at 75 mph downed power lines onto Highway 32.

Kingfisher County

1 E Kingfisher	13	1646CST			0	0			Hail (1.75)
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Caddo County

4 S Hydro	13	1735CST			0	0			Hail (0.88)
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June 1998

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OKLAHOMA, Western, Central and Southeast

Logan County

3 SW Guthrie 13 1743CST
1746CST 2 50 0 0 **Tornado (F1)**

A tornado touched down about 3 miles southwest of Guthrie. Two houses suffered shingle and siding damage. A third house sustained broken windows, a damaged roof, and a broken porch post. A barn was unroofed, an outbuilding was destroyed, numerous fences were broken and a hood was torn off an old pick-up truck. The tornado was rated an F1.

Canadian County

3 NW Calumet 13 1800CST 0 0 **Hail (1.50)**

Kingfisher County

3 N Hennessey 13 1800CST 0 0 **Hail (1.00)**

Canadian County

3 NW Calumet 13 1807CST 0 0 **Hail (1.75)**

Canadian County

Calumet 13 1814CST 0 0 **Hail (2.50)**

Canadian County

5 WNW El Reno 13 1815CST 0.2 10 0 0 **Tornado (F0)**

A tornado touched down briefly in open country. No damage was reported and the tornado was rated F0.

Canadian County

2 W El Reno 13 1816CST 0 0 **Thunderstorm Wind (G52)**

Canadian County

4 NW El Reno 13 1817CST
1822CST 0.2 15 0 0 **Tornado (F0)**

A tornado touched down in open country. No damage was reported and the tornado was rated F0.

Garfield County

10 SW Covington 13 1835CST 0 0 **Hail (0.88)**

Canadian County

Oklahoma City 13 1838CST 0 0 **Hail (0.88)**

Occurred at NW Expressway and County Line Road on the Oklahoma/Canadian County line.

Oklahoma County

Oklahoma City 13 1838CST 0 0 **Hail (0.88)**

Reported at NW Expressway and County Line Road on the Canadian/Oklahoma County line.

Oklahoma County

Oklahoma City 13 1839CST 0 0 **Hail (0.88)**

Reported at NW Expressway and Rockwell

Garfield County

6 S Covington 13 1840CST 0 0 **Hail (1.00)**

Oklahoma County

Oklahoma City 13 1840CST 0 0 **Hail (1.50)**

Reported at Wilshire and Council,

Canadian County

2 WNW Yukon 13 1845CST 0.1 30 0 0 **Tornado (F0)**

A storm chaser observed a brief tornado touching down in an open field with no known damage.

Kay County

4 SE Blackwell 13 1850CST 0 0 **Thunderstorm Wind (G53)**

Recorded by Oklahoma Mesonet.

Kay County

Ponca City 13 1850CST 0 0 **Thunderstorm Wind (G74)**

Measured at KPNC observing site.



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OKLAHOMA, Western, Central and Southeast

Noble County

1 S Lucien 13 1910CST 0 0 **Hail (1.00)**

Oklahoma County

Oklahoma City 13 1912CST
1923CST 5.5 200 0 17 1M **Tornado (F2)**

This tornado was the most intense of the day. The tornado touched down approximately 1/4 mile southwest of the corner of Bryant Avenue and Hefner Road, and moved northeast crossing Interstate 35 at the Frontier City theme park parking lot. The tornado continued northeast along northeast 122nd Street and eventually dissipated 1/4 mile northeast of Interstate 44 at Douglas Blvd. The total path length was approximately 5 1/2 miles. Maximum width was 200 yards east of Interstate 35 and south of Interstate 44. The tornado was rated F2 (At 122nd Street approximately 1-2 miles east of I-35). Seventeen minor injuries (3 transported to hospital) occurred at Frontier City. Along the track, major structural damage occurred to businesses along Interstate 35 from 122nd Street southward for approximately three-quarters of a mile. The Frontier City theme park was among the hardest hit businesses. The tornado passed through the parking lot damaging numerous vehicles before striking a two-story concrete block building at the northeast corner of the park. This building suffered partial failure of external walls and the entire roof was removed. Damage to adjacent areas of the park was mainly due to strong inflow into the tornado.

On the east side of Interstate 35, a Texaco truck stop was severely damaged. Empty semi-tractor trailers located in the east parking lot of the truck stop were over turned and rolled tens of feet. One trailer was briefly airborne and landed on another empty trailer. A small portable building containing a CB radio shop in the parking area was completely swept away into a grove of trees east of the lot. Numerous homes suffered major damage to roofs, windows, and garage doors in the Nottingham and Quail Ridge Run subdivisions located along 122nd Street 1-2 miles east of I35. Several homes suffered major or nearly complete roof failure, though most exterior walls remained intact. These homes were of recent construction and were well built with brick exterior facades (some likely in excess of \$200K). No means of anchoring the roofs to the exterior walls was noted. The tornado may have approached F3 at times in these neighborhoods. The most severely damaged home was located atop a small hill with garage doors on the upwind side of the home. Debris patterns suggest the garage doors failed allowing the wind to lift the roof. Without the roof in place, failure of the external garage walls occurred. The most severe damage to trees occurred in these subdivisions and areas immediately adjacent.

Noble County

Perry 13 1920CST 0 0 **Hail (2.75)**

Grady County

5 NW Pocasset 13 1930CST 0 0 **Hail (0.88)**

McClain County

3 NW Newcastle 13 1950CST 0 0 **Hail (0.75)**

Canadian County

3 SE Yukon 13 1959CST 0 0 **Thunderstorm Wind (G61)**

Oklahoma County

2 SW Bethany 13 1959CST 0 0 **Thunderstorm Wind (G61)**

Oklahoma County

Oklahoma City 13 2003CST 0 0 **Thunderstorm Wind (G55)**

Cleveland County

4 NW Moore 13 2010CST 0 0 **Hail (1.25)**

Reported at 89th and Penn on the Oklahoma and Cleveland County line.

Oklahoma County

Oklahoma City 13 2010CST 0 0 **Hail (1.25)**

Reported at 89th and Penn on the Oklahoma/Cleveland County line.

Oklahoma County

8 S Choctaw 13 2025CST 0 0 **Hail (0.88)**

Pottawatomie County

6 W Shawnee 13 2041CST 0 0 **Hail (1.75)**

Seminole County

2 N Little 13 2115CST 0 0 **Hail (0.88)**

Summary of events of June 13, 1998:

During the afternoon and evening four supercell thunderstorms developed near a dryline in western Oklahoma and tracked east into central sections of the state. The most significant storm developed in Washita county at approximately 400 pm CST and intensified as



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OKLAHOMA, Western, Central and Southeast

it moved east toward central Oklahoma. This storm produced at least six tornadoes as it tracked from Canadian County across Oklahoma County during the early evening. The most damaging tornado (an F2) touched down in northeast Oklahoma City and crossed Interstate 35 near the Frontier City theme park. Other tornadoes damaged the Oklahoma City Boat Club, portions of The Village and Nichols Hills, the Highland Park neighborhood west of Broadway Extension, and the area near May and Grand Avenues in Oklahoma City. Three weak tornadoes also touched down in open country northwest of El Reno and near Yukon. In addition to damaging tornadoes, the storm produced extensive straight-line wind damage from Lake Hefner, across Nichols Hills and The Village, into northeast Oklahoma County. Winds likely exceeded 100 mph in some areas. There were no fatalities and only 21 relatively minor injuries reported in Oklahoma County. The majority of the injuries were sustained at the Frontier City theme park. Earlier, another supercell thunderstorm produced tornadoes near Longdale in Blaine County and 3 miles southwest of Guthrie. Supercells that tracked across Noble County and northern Cleveland County produced large hail and severe winds, but no tornadoes.

See preceding individual Storm Data entries for further details and additional reports.

Jackson County 5 NW Duke	17	1823CST			0	0			Hail (1.00)
Greer County 12 S Mangum	17	1825CST			0	0			Hail (1.75)
Golfball sized hail was reported by spotter on the Greer and Jackson County line.									
Jackson County 4 N Duke	17	1825CST			0	0			Hail (1.75)
Golfball sized hail was reported by spotter on the Greer and Jackson County line.									
Greer County Granite	17	1843CST			0	0			Hail (1.75)
Greer County Granite	17	1845CST			0	0			Hail (2.00)
Hail up to 2 inches in diameter damaged several vehicles.									
Kiowa County 12 NW Lone Wolf	17	1847CST			0	0			Hail (1.75)
Washita County Burns Flat	17	1858CST			0	0			Thunderstorm Wind (G52)

Summary of events of June 17, 1998:

Severe thunderstorms moved across southwest Oklahoma during the evening hours of the 17th. Numerous reports of hail as large as golf balls were received, with the largest hail (2-inch diameter) reported in Granite in Greer County.

See preceding individual Storm Data entries for further details and additional reports.

Stephens County Comanche	18	1602CST			0	0			Hail (0.88)
Stephens County 3 NE Comanche	18	1605CST			0	0			Hail (0.75)
Stephens County 6 W Velma	18	1610CST			0	0			Hail (0.75)
Garvin County Foster	18	1626CST			0	0			Hail (0.88)
Stephens County 2 S Loco	18	1755CST			0	0			Hail (0.88)
Garvin County Pernell	18	1800CST			0	0			Hail (0.88)
Jefferson County Addington	18	1800CST 2200CST			0	0			Hail (1.75)

Severe thunderstorms lasted for more than 4 hours around Addington. Ranchers near Addington witnessed hail as large as golf balls falling at least 10 times during those thunderstorms. The large hail damaged a barn roof and cracked a car windshield.



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OKLAHOMA, Western, Central and Southeast

Carter County									
Fox	18	1805CST			0	0			Hail (0.88)
Jefferson County									
4 NW Addington	18	1818CST			0	0			Hail (0.75)
Stephens County									
Loco	18	1830CST			0	0			Hail (1.75)
Jefferson County									
10 E Waurika	18	1835CST			0	0			Thunderstorm Wind (G52)
Carter County									
1 W Tatum	18	1839CST			0	0			Hail (1.00)
Jefferson County									
1 N Ringling	18	1840CST			0	0			Thunderstorm Wind (G75)
Measured by the Oklahoma Mesonet									
Garvin County									
Pernell	18	1845CST			0	0			Hail (0.88)
Jefferson County									
Claypool	18	1845CST			0	0	2K		Thunderstorm Wind
Severe thunderstorm winds destroyed a vacant trailer house and downed power lines.									
Jefferson County									
1 N Ringling	18	1845CST			0	0			Thunderstorm Wind (G65)
Measured by the Oklahoma Mesonet									
Carter County									
1 W Healdton	18	1855CST			0	0			Hail (1.00)
Jefferson County									
Ringling	18	1905CST			0	0			Hail (1.75)
Jefferson County									
Ringling	18	1905CST			0	0			Thunderstorm Wind (G52)
Jefferson County									
Ringling	18	1916CST			0	0			Hail (1.75)
Carter County									
Lone Grove	18	1926CST			0	0			Hail (1.00)
Carter County									
Wilson	18	1934CST			0	0			Hail (0.75)
Carter County									
Wilson	18	1934CST			0	0			Thunderstorm Wind (G52)
Jefferson County									
Addington	18	1945CST 2300CST			0	0			Flash Flood
Over 3 hours of heavy rain from thunderstorms over Jefferson County caused flash flooding of Cow Creek and Monument Creek. Ranchers measured 10 inches of rain in the area before they witnessed the floods.									
Carter County									
4 S Ardmore	18	2005CST			0	0			Thunderstorm Wind (G65)
Jefferson County									
Addington	18	2015CST			0	0			Hail (0.88)
Love County									
1.5 E Rubottom	18	2016CST			0	0			Thunderstorm Wind (G61)
Carter County									
Wilson	18	2020CST			0	0			Hail (0.88)



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OKLAHOMA, Western, Central and Southeast

Love County
2 SE Burneyville **18** **2020CST** **0** **0** **Thunderstorm Wind (G62)**

Measured by the Oklahoma Mesonet

Love County
7 W Overbrook **18** **2020CST** **0** **0** **Hail (0.75)**

Love County
7 W Overbrook **18** **2020CST** **0** **0** **Thunderstorm Wind (G52)**

Love County
5 E Overbrook **18** **2020CST** **0** **0** **0.50K** **Thunderstorm Wind**

Two power poles were blown down.

Love County
2 SE Burneyville **18** **2025CST** **0** **0** **Thunderstorm Wind (G55)**

Measured by the Oklahoma Mesonet

Love County
2 SE Burneyville **18** **2030CST** **0** **0** **Thunderstorm Wind (G59)**

Measured by the Oklahoma Mesonet

Love County
Burneyville **18** **2032CST** **0** **0** **Thunderstorm Wind (G52)**

Jefferson County
1.5 N Addington **18** **2045CST** **0** **0** **Hail (1.75)**

Love County
Leon **18** **2115CST** **0** **0** **0.25K** **Thunderstorm Wind**

Severe thunderstorm winds downed trees.

Jefferson County
7 E Addington **18** **2145CST** **0** **0** **Hail (0.75)**

Stephens County
10 E Duncan **18** **2245CST** **0** **0** **Hail (0.75)**

Stephens County
10 E Duncan **18** **2300CST** **0** **0** **Hail (1.00)**

Stephens County
3 N Velma **19** **0000CST** **0** **0** **Hail (0.75)**

Summary of events of June 18, 1998:

Severe thunderstorms developed over southwest Oklahoma during the early evening of the 18th and moved across southern Oklahoma, producing large hail, damaging winds, and flash flooding. Storms were particularly persistent over Jefferson County, lasting for more than 4 hours. Rainfall amounts were reported to be in excess of 10 inches near Addington. Wind gusts measured up to 86 mph, and golf ball sized hail fell during the course of the severe thunderstorms in Jefferson County. Love County sustained tree and power line damage from the storms as they tracked across south-central Oklahoma late in the evening.

See preceding individual Storm Data entries for further details and additional reports.

Garfield County
1 W Enid **19** **1640CST** **0** **0** **Hail (1.75)**

Garfield County
1 N Enid **19** **1652CST** **0** **0** **Hail (2.75)**

Tillman County
9 E Davidson **19** **1713CST** **0** **0** **Hail (0.88)**

Caddo County
Binger **19** **1731CST** **0** **0** **Hail (1.75)**



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Storm Data and Unusual Weather Phenomena



June 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
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OKLAHOMA, Western, Central and Southeast

Comanche County									
Chattanooga	19	1742CST			0	0			Hail (1.00)
Caddo County									
Hinton	19	1800CST			0	0			Hail (3.50)
Hail up to 3.5 inches in diameter broke holes in the roofs of houses and barns. Numerous cars were dented and had their windows broken by the giant hail.									
Comanche County									
1.5 S Lawton	19	1804CST			0	0			Hail (0.75)
Comanche County									
Lawton	19	1810CST			0	0			Hail (0.75)
Comanche County									
Ft Sill Aaf	19	1815CST			0	0			Hail (0.88)
Comanche County									
4 E Lawton	19	1815CST			0	0			Hail (0.88)
Garfield County									
3 NE Breckinridge	19	1830CST			0	0			Hail (2.75)
Comanche County									
Sterling	19	1833CST			0	0			Hail (0.75)
Caddo County									
4 NW Eakly	19	1843CST			0	0			Hail (1.75)
Garfield County									
Hunter	19	1850CST			0	0			Hail (0.88)
Caddo County									
2 S Cogar	19	1918CST			0	0			Hail (0.88)
Canadian County									
12 WSW El Reno	19	1920CST			0	0			Hail (0.88)
Garfield County									
2 N Enid	19	1928CST			0	0			Hail (1.75)
Garfield County									
Enid	19	1930CST			0	0			Hail (2.25)
Caddo County									
4 S Cogar	19	1935CST			0	0			Hail (1.75)
Caddo County									
2 NE Lookeba	19	1940CST			0	0			Hail (1.00)
Grady County									
6 W Minco	19	1940CST			0	0			Hail (0.75)
Caddo County									
2 NE Lookeba	19	1950CST			0	0			Hail (0.88)
Garfield County									
3 NE Enid	19	2010CST			0	0			Hail (1.75)
Canadian County									
2 E Niles	19	2030CST			0	0			Hail (1.00)
Canadian County									
10 W Calumet	19	2045CST 2056CST			0	0			Hail (1.00)
Blaine County									
Geary	19	2053CST			0	0			Hail (1.00)
Canadian County									
Calumet	19	2108CST			0	0			Hail (1.75)



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OKLAHOMA, Western, Central and Southeast

Canadian County									
8 WSW Okarche	19	2124CST			0	0			Hail (1.75)

Summary of events of June 19, 1998:

Severe thunderstorms affected several areas in the state the evening of the 19th. The largest hail reported was 3.5 inches in Hinton(Caddo County). In north-central Oklahoma, hail as large as baseballs fell in Garfield County; in southwest Oklahoma, Tillman and Comanche Counties reported hail as large as quarters; and in central Oklahoma hail to the size of golf balls fell in Canadian Counties.

See preceding individual Storm Data entries for further details and additional reports.

Blaine County									
Hitchcock	20	1615CST			0	0			Hail (1.75)
Blaine County									
4 E Watonga	20	1635CST			0	0			Hail (1.00)
Garfield County									
6 S Drummond	20	1636CST			0	0			Hail (1.75)
Garfield County									
Drummond	20	1650CST			0	0			Hail (1.80)
Garfield County									
10 S Enid	20	1654CST			0	0			Hail (1.75)
Garfield County									
Drummond	20	1655CST			0	0			Hail (1.75)
Kingfisher County									
15 NW Hennessey	20	1700CST			0	0			Hail (1.50)
Garfield County									
Enid	20	1730CST			0	0			Hail (1.25)
Comanche County									
8 NNW Indianoma	20	1745CST			0	0			Hail (0.88)
Kingfisher County									
Loyal	20	1748CST			0	0			Hail (1.00)
Caddo County									
Hinton	20	1750CST			0	0			Hail (1.00)
Garfield County									
2 W Kremlin	20	1750CST			0	0			Hail (1.75)
Kingfisher County									
3 E Loyal	20	1805CST			0	0			Hail (1.00)
Comanche County									
Lawton	20	1830CST			0	0	0.75K		Thunderstorm Wind
Severe thunderstorm winds downed 6 utility poles.									
Garfield County									
Enid	20	1830CST			0	0			Hail (1.00)
Kingfisher County									
1 W Kingfisher	20	1830CST			0	0			Hail (1.00)
Canadian County									
6 WNW El Reno	20	1855CST			0	0			Hail (0.88)
Oklahoma County									
Bethany	20	1910CST			0	0	0.50K		Thunderstorm Wind
Severe thunderstorm winds downed power lines.									



National Weather Service

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June 1998

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OKLAHOMA, Western, Central and Southeast

Canadian County									
El Reno	20	1912CST			0	0			Hail (0.88)

Oklahoma County									
Oklahoma City	20	1923CST			0	0	0.50K		Thunderstorm Wind

Severe thunderstorm winds downed power lines in western Oklahoma City.

Canadian County									
6 NW Yukon	20	1927CST			0	0			Hail (1.00)

Canadian County									
3 N Yukon	20	1935CST 1939CST			0	0			Hail (1.00)

Canadian County									
5 SE Piedmont	20	1940CST			0	0			Hail (2.50)

Logan County									
2 SW Guthrie	20	1940CST			0	0			Hail (0.88)

Oklahoma County									
Oklahoma City	20	1940CST			0	0			Hail (1.00)

Occurred on the northwest side of the city.

Oklahoma County									
Oklahoma City	20	1952CST			0	0			Hail (1.25)

Occurred on the northwest side of the city.

Kay County									
Tonkawa	20	2230CST			0	0			Hail (0.75)

Grant County									
Medford	20	2240CST			0	0			Hail (1.75)

Grant County									
Medford	20	2300CST 2305CST			0	0			Hail (0.88)

Grant County									
5 NW Renfrow	21	0000CST			0	0			Hail (0.88)

Kay County									
Braman	21	0003CST			0	0			Hail (0.75)

Summary of events of June 20, 1998:

Severe thunderstorms moved across northern and central Oklahoma during the evening of the 20th. By far the greatest impact of the storms was the large hail. Widespread reports of large hail were received, with the largest hail (as large as tennis balls) reported southeast of Piedmont in Canadian County.

See preceding individual Storm Data entries for further details and additional reports.

Harmon County									
9 NNE Hollis	21	1750CST			0	0			Hail (0.75)

Greer County									
Willow	21	1830CST			0	0			Hail (1.00)

Grant County									
6 SW Manchester	21	1855CST			0	0			Hail (1.00)

Alfalfa County									
11 E Byron	21	1859CST			0	0			Hail (2.25)

Grant County									
7 SSW Manchester	21	1859CST			0	0			Hail (2.25)



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Storm Data and Unusual Weather Phenomena



June 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
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OKLAHOMA, Western, Central and Southeast

Kiowa County									
12 NW Lone Wolf	21	1900CST			0	0			Hail (2.75)
Washita County									
Sentinel	21	1920CST			0	0			Hail (1.75)
Grant County									
2 WNW Gibbon	21	1935CST			0	0			Hail (1.00)
Washita County									
6 SW Dill City	21	1940CST			0	0	25K		Thunderstorm Wind
Severe thunderstorm winds destroyed a hay barn and pop-up camper. The neighboring house and outbuildings also sustained roof damage.									
Washita County									
3 S Cordell	21	1942CST			0	0			Hail (1.00)
Custer County									
Weatherford	21	2007CST			0	0			Hail (0.88)
Blaine County									
16 WSW Geary	21	2014CST			0	0			Hail (0.75)
Grant County									
5 SE Renfrow	21	2035CST			0	0			Hail (1.00)
Tillman County									
4 S Tipton	21	2140CST			0	0			Thunderstorm Wind (G54)

Measured by the Oklahoma Mesonet

Summary of events of June 21, 1998:

Evening severe thunderstorms moved across northern and western Oklahoma, producing large hail and damaging thunderstorm winds. The largest hail was reported northwest of Lone Wolf in Kiowa County, where as large as baseballs fell. Thunderstorm wind gusts were measured at 62 mph by the Oklahoma mesonet site south of Tipton in Tillman County. Wind damage was reported southwest of Dill City in Washita County.

See preceding individual Storm Data entries for further details and additional reports.

OKZ025	Oklahoma	21	2200CST		1	0			Excessive Heat
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An 81-year old woman was found dead in her Oklahoma City home. F81PH

OKZ025	Oklahoma	29	1200CST		1	0			Excessive Heat
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A 76-year old man from Del City was found dead in his house.

Excessive heat and drought conditions affected western and central Oklahoma as well as western portions of north Texas from May through early October with the most intense heat and severe drought conditions occurring from mid-June through early September across central and southern Oklahoma and western portions of north Texas. The heat and drought was less severe across northwest and north central Oklahoma. In total, there were 21 fatalities and at least 5 injuries directly related to the heat. Agricultural losses are estimated at nearly 2 billion dollars for Oklahoma and 2.1 billion dollars for Texas. Sixty of Oklahoma's 77 counties and all of Texas's counties were declared federal disaster areas.

Excessive heat and drought began in May, intensified in July and August, and diminished in September and early October. Oklahoma City experienced it's 6th warmest and 16th driest May on record, while Wichita Falls experienced it's 3rd warmest and 3rd driest May on record. Heat and drought conditions escalated after June 11th, which was the last day of widespread rainfall across western and central Oklahoma and western portions of north Texas until early September. The heat and drought then ended in early October when widespread rain and cooler temperatures returned to the southern plains.

The first fatality directly related to the heat occurred on June 21st, when an 81 year-old woman was found dead in her house in Oklahoma City (Canadian County). A 76 year-old man was then found dead in his Del City home on June 29th. The heat claimed 17 lives in July. The first occurred in Wichita Falls (Wichita County) on July 3rd, when a 75 year-old man was found dead in his home. Four heat related fatalities occurred between the 9th and the 11th. Two persons died on the 9th. A 46 year-old man was found dead in



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June 1998

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OKLAHOMA, Western, Central and Southeast

a hotel room in Oklahoma City with no air conditioning. The temperature in the room was 115 degrees. A 73 year-old man was then found dead in his Oklahoma City home. On July 10th, a 79 year-old man was found dead in his mobile home in Mulhall (Logan County). Another heat related fatality occurred on the 11th, when a 51 year-old woman was found dead in her home in Wewoka (Seminole County). The second and last report of a heat related fatality in western portions of north Texas occurred on the 14th, when a 74 year-old man was found dead in his Wichita Falls home.

On July 17th, in Altus (Jackson County, Oklahoma), a 79 year-old man was found dead in his home, while on the 19th, there were 3 heat related deaths reported. The first fatality occurred to a man of unknown age. He was found dead in his vehicle in Oklahoma City. The second fatality occurred in Guthrie (Logan County) when a 55 year-old man was found dead in his house, while the 3rd fatality occurred to a 78 year-old woman when she was found dead in her Oklahoma City apartment. On July 20th, a 78 year-old woman was found dead in her Duncan (Stephens County) home, while on the 21st, another 78 year-old woman was found dead in her home, this time in Guthrie (Logan County). Two persons died in their homes from the heat on the 27th, the first, a 61 year-old man from Oklahoma City, the second, a 67 year-old man found from Cromwell (Seminole County). The last heat related fatality occurred on the 30th, when a 62 year-old woman was found dead in her Oklahoma City home.

Three heat related fatalities were reported in August. The first occurred on the 2nd when a 53 year-old man was found dead inside his Oklahoma City home. The second heat related fatality occurred on the 3rd, when an 82 year-old man was found dead inside his Oklahoma City home. The last heat related fatality in August occurred on the 5th in Gene Autry (Carter County) when a 76 year-old man was found dead inside his home. Only one heat related fatality was reported in September, and occurred on the 4th. A 76 year-old man was found dead outside of a retirement home in Oklahoma City. He was found after he went for a walk and did not return.

Only 5 heat related injuries were reported during the 5 month-long heat and drought. Two persons from Wichita Falls were treated for heat related injuries on June 2nd at United Regional Health Care. Three troop members from Fort Sill (Comanche County) were rushed to a local hospital on July 22nd and treated for heat related injuries as well.

Statistics provided by the Oklahoma State Department of Agriculture indicate economic losses of approximately 2 billion dollars to the state's agriculture business. Figures were not available for individual counties. Hay and cotton crops were particularly hard hit. Hay producers harvested only 30 to 80 percent of the normal yield, a loss of perhaps 80 million dollars. Cotton production was reduced by about 70 percent, a loss of 38 million dollars. Other crops such as grain sorghum, peanuts and soybeans also suffered major losses. In total, crop losses across Oklahoma were near 500 million dollars, but because of the multiplying effect on the overall economy, this figure is more like 2 billion dollars when considering the effect on the state's economy. Agricultural losses across Texas total about 2.1 billion dollars with no specific statistics available on a county-by-county basis, however cotton losses are expected to contribute significantly to the total loss.

The summer of 1998 (June-August) was the 4th hottest and 5th driest in Oklahoma City on record, and the 2nd hottest and 7th driest in Wichita Falls. The drought ended gradually in September and early October, but record warm temperatures continued through September. Oklahoma City recorded an average temperature of 81.2 degrees in September, 2nd hottest September on record. The summer of 1980, considered to be the last major period of heat and drought to affect Oklahoma and western portions of north Texas, still ranks as the hottest summer ever for both Oklahoma City and Wichita Falls, however Oklahoma City did experience a drier summer in 1998 than in 1980.

M76PH

Grant County 5 SE Renfrow	30	0835CST	0	0	Hail (0.75)
Kay County 1 N Blackwell	30	0900CST	0	0	Thunderstorm Wind (G69)
Severe thunderstorm winds estimated at 70 to 80 mph downed power lines and blew a car off of Highway 11 east of I-35.					
Payne County 8 NNW Stillwater	30	1205CST	0	0	Hail (0.75)
Blaine County Watonga	30	1440CST	0	0	Hail (0.75)
Blaine County 7 W Watonga	30	1507CST	0	0	Hail (1.50)
Blaine County Watonga	30	1515CST	0	0	Hail (1.00)
Blaine County 17 SW Watonga	30	1550CST	0	0	Hail (1.75)



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OKLAHOMA, Western, Central and Southeast

Custer County									
7 NW Weatherford	30	1555CST			0	0			Hail (1.00)
Blaine County									
Watonga	30	1600CST			0	0			Hail (1.00)
Quarter size hail covered the ground.									
Custer County									
4 WSW Weatherford	30	1625CST			0	0			Thunderstorm Wind (G57)
Measured by the Oklahoma Mesonet.									
Custer County									
4 WSW Weatherford	30	1705CST			0	0			Thunderstorm Wind (G64)
Measured by the Oklahoma Mesonet.									
Alfalfa County									
Lambert	30	1707CST			0	0			Hail (0.88)
Custer County									
Arapaho	30	1710CST			0	0	0.10K		Thunderstorm Wind
Severe thunderstorm winds downed a large tree.									
Woods County									
Hopeton	30	1740CST			0	0			Thunderstorm Wind (G52)
Woods County									
Dacoma	30	1743CST			0	0			Hail (0.75)
Woods County									
Waynoka	30	1830CST			0	0			Hail (0.75)
Woods County									
3 SSW Waynoka	30	1830CST			0	0			Hail (1.00)
Major County									
19 N Chester	30	1915CST			0	0			Hail (1.00)

Summary of events of June 30, 1998:

Severe thunderstorms moved across parts of northwest and western Oklahoma during the daytime hours of the 30th. Hail as large as golf balls fell southwest of Watonga in Blaine County. Thunderstorm winds were measured at speeds of up to 74 mph by the Oklahoma Mesonet near Weatherford in Custer County. Wind damage was reported in Arapaho in Custer County and north of Blackwell in Kay County.

See preceding individual Storm Data entries for further details and additional reports.

TEXAS, Western North

TXZ086									
Wichita									
02	1300CST				0	2			Excessive Heat

Two people were treated for heat related injuries at United Regional Health Care in Wichita Falls.

Excessive heat and drought conditions affected western and central Oklahoma as well as western portions of north Texas from May through early October with the most intense heat and severe drought conditions occurring from mid-June through early September across central and southern Oklahoma and western portions of north Texas. The heat and drought was less severe across northwest and north central Oklahoma. In total, there were 21 fatalities and at least 5 injuries directly related to the heat. Agricultural losses are estimated at nearly 2 billion dollars for Oklahoma and 2.1 billion dollars for Texas. Sixty of Oklahoma's 77 counties and all of Texas's counties were declared federal disaster areas.

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TEXAS, Western North

on record. Heat and drought conditions escalated after June 11th, which was the last day of widespread rainfall across western and central Oklahoma and western portions of north Texas until early September. The heat and drought then ended in early October when widespread rain and cooler temperatures returned to the southern plains.

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Knox County									
Truscott	09	1415CST			0	0			Hail (1.75)
Knox County									
Knox City	09	1445CST			0	0			Hail (0.88)
Foard County									
8 SE Crowell	09	1500CST 1530CST			0	0			Hail (1.00)
Knox County									
Gilliland	09	1500CST			0	0			Hail (0.75)
Wichita County									
Electra	09	1523CST			0	0			Hail (1.00)
Wichita County									
Electra	09	1523CST			0	0			Thunderstorm Wind (G52)



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June 1998

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<u>TEXAS, Western North</u>									
Wichita County 8 N Electra	09	1528CST			0	0			Hail (2.75)
Wichita County 2 E Electra	09	1530CST			0	0			Hail (1.75)
Baylor County Mabelle	09	1535CST			0	0	0.01K		Thunderstorm Wind
Severe thunderstorm winds downed 2-inch tree limbs.									
Wichita County Iowa Park	09	1537CST			0	0			Thunderstorm Wind (G61)
Wichita County Wichita Falls	09	1558CST			0	0			Hail (0.88)
Occurred at I-44 and Missile Road.									
Wichita County Wichita Falls	09	1558CST			0	0			Thunderstorm Wind (G61)
Occurred at I44 and Missile Road.									
Baylor County 8 N Mabelle	09	1600CST			0	0			Hail (1.00)
Baylor County 8 N Mabelle	09	1600CST			0	0	0.01K		Thunderstorm Wind
Severe thunderstorm winds downed 2-inch tree limbs.									
Wichita County Sheppard Afb	09	1600CST 1615CST			0	2	1M		Hail (2.00)
Hail larger than golf balls, combined with severe thunderstorm winds up to 79 mph, caused extensive damage and 2 injuries at Sheppard Air Force Base. The 2 injuries occurred when some soldiers were caught outside in the hailstorm. 48 (out of a squadron of 200) T-37 training jets were damaged by 2-inch hail. The winds blew the protective covers from the planes and the hail then knocked holes in the wings and broke the planes' windshields. Over 100 cars on the base were damaged. A window was knocked out of the air traffic control tower. One house sustained heavy damage when all of its west-facing shutters were destroyed and 3 skylights and 2 windows were broken. Numerous trees were snapped by the severe winds.									
Wichita County Burkburnett	09	1602CST			0	0			Hail (1.75)
Archer County Dundee	09	1603CST			0	0			Hail (0.75)
Wichita County Wichita Falls	09	1603CST			0	0			Thunderstorm Wind (G65)
Measured at the KSPS observing site.									
Wichita County Wichita Falls	09	1604CST			0	0			Thunderstorm Wind (G68)
Measured at the KSPS observing site.									
Archer County Dundee	09	1605CST			0	0			Hail (2.00)
Archer County Dundee	09	1605CST			0	0			Hail (2.00)
Baylor County 4 N Mabelle	09	1610CST			0	0			Hail (1.75)
Baylor County 4 N Mabelle	09	1610CST			0	0			Hail (1.75)
Wichita County Wichita Falls	09	1610CST			0	0	1K		Lightning



National Weather Service

Storm Data and Unusual Weather Phenomena



June 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
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TEXAS, Western North

Lightning struck a house, setting fire to the attic. The fire was contained and damage was estimated at \$1,000.

Clay County Henrietta	09	1613CST			0	0			Thunderstorm Wind (G52)
Clay County 3 SW Dean	09	1620CST			0	0			Thunderstorm Wind (G61)
Archer County 2 S Holliday	09	1646CST			0	0			Hail (3.90)
Archer County 2 S Holliday	09	1646CST			0	0			Thunderstorm Wind (G78)
Archer County 5 SE Holliday	09	1701CST			0	0			Hail (1.75)
Clay County 10 SW Henrietta	09	1701CST			0	0			Thunderstorm Wind (G57)
Clay County Henrietta	09	1712CST			0	0			Thunderstorm Wind (G52)
Clay County Henrietta	09	1716CST			0	0	7K		Thunderstorm Wind

Thunderstorm winds downed trees and power lines and rolled a mobile home in a dealer's parking lot.

Archer County 2 N Windthorst	09	1744CST			0	0			Hail (0.88)
Wichita County Wichita Falls	09	1750CST			0	0			Flash Flood

Bacon Switch Road was under water.

Archer County 4 W Windthorst	09	1800CST			0	0			Hail (0.88)
Clay County 12 S Henrietta	09	1810CST			0	0			Hail (0.75)
Wilbarger County Vernon	09	1816CST			0	0			Hail (0.75)

Summary of events of June 9, 1998:

Severe thunderstorms moved from west Texas into north Texas during the afternoon of the 9th, producing large hail and damaging thunderstorm winds. The largest hail (up to the size of baseballs) was reported north of Electra in Wichita County. The strongest winds were estimated at 90 mph south of Holliday in Archer County. A particularly severe thunderstorm affected Sheppard Air Force Base in Wichita County, causing extensive damage to many of the buildings and an aircraft. Two soldiers were also injured by large hail.

See preceding individual Storm Data entries for further details and additional reports.

Clay County Byers	11	0000CST			0	0			Thunderstorm Wind (G57)
Numerous large tree limbs were blown down by winds estimated at 65 mph.									
Baylor County 4 NE Bomarton	12	1822CST			0	0			Hail (1.75)
Clay County Henrietta	18	2048CST			0	0			Hail (0.88)
Clay County Bluegrove	18	2110CST			0	0			Hail (0.75)
Clay County 9 S Henrietta	18	2129CST			0	0			Hail (0.75)



National Weather Service

Storm Data and Unusual Weather Phenomena



June 1998

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

TEXAS, Western North

Clay County									
9 S Henrietta	18	2131CST			0	0			Hail (1.00)
Baylor County									
8 N Mabelle	19	1647CST			0	0			Hail (0.75)
Baylor County									
Lake Kemp	19	1700CST			0	0			Hail (1.00)
Baylor County									
Lake Kemp	19	1702CST			0	0			Hail (0.75)
Baylor County									
Lake Kemp	19	1705CST			0	0			Hail (1.00)
Baylor County									
Lake Kemp	19	1730CST			0	0			Hail (1.75)
Baylor County									
Lake Kemp	19	1805CST			0	0			Hail (1.75)
Baylor County									
Mabelle	19	1850CST			0	0			Hail (1.75)
Archer County									
Windthorst	19	1940CST			0	0	1K		Thunderstorm Wind

Thunderstorm winds uprooted trees and blew down power lines along Highway 281.

Summary of events of June 19, 1998:

Severe thunderstorms over Baylor County produced hail as large as golf balls. Severe thunderstorm wind damage was also reported in Windthorst in Archer County.

See preceding individual Storm Data entries for further details and additional reports.

Hardeman County									
5 NW Goodlett	21	1745CST			0	0			Hail (1.00)