

## National Weather Service Storm Data and Unusual Weather Phenomena

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)		ber of sons Injured		nated mage Crops	Character of Storm	March 1998
<u>OKLAHOMA, West</u>	ern, Cent	ral and Southe	east							
Bryan County										
1 SE Colbert	06	2055CST			0	0			Hail (0.75)	
Bryan County 3 E Roberta	06	2130CST			0	0			Hail (1.00)	
Comanche County										
6 E Lawton	07	0340CST			0	0			Hail (0.75)	
	3/4 in	ch hail covered th	e ground at K	SWO TV						
Oklahoma County										
Oklahoma City	07	0504CST			0	0			Hail (0.75)	
	at I-44	and NW 10th St								
OKZ019	Logan									
	16 19	1800CST 1800CST			0	0	75K		Flood	

A slow-moving storm system produced heavy rainfall over much of southwest Oklahoma and western North Texas and parts of central, and southeast Oklahoma during mid March. Precipitation totals between 3 and 6 inches were recorded during the three-day period of March 15-17, 1998. As a result, minor to moderate flooding occurred over a widespread area, and crests above flood stage were recorded at 28 forecast points and 9 data points in the Norman hydrologic service area. Only the west-central and northwest portions of Oklahoma did not incur flooding during the period.

A second round of showers and thunderstorms moved through the area during the late evening hours of the 18th and early morning hours of the 19th. Precipitation totals between 1 and 2 inches helped produce secondary crests on some rivers.

Most of the river crests occurred between March 16 and March 19. Flood stages were exceeded at some locations as early as 8 p.m. CST on March 15 and as late as 11 p.m. CST on March 24.

The most significant flooding occurred in southwest Oklahoma, where crests of between 5 and 10 feet above flood stage were recorded at some sites.

Some of the major rivers and creeks which flooded in Oklahoma include the Clear Boggy, Cobb, Cottonwood, East Cache, Kingfisher, Mud, and Muddy Boggy Creeks, Deep Red Run, and the Blue, Canadian, Chikaskia, Cimarron, Deep Fork, Little, North Canadian, North Fork of the Red, Red, Salt Fork of the Arkansas and Washita Rivers. In western North Texas, flooding occurred along the South Wichita and Little Wichita Rivers, and Beaver Creek near Electra, Texas.

In addition, other minor tributaries and streams also overflowed their banks and produced minor to moderate flooding. These streams include the Bell Cow, Cache, Chuckwa, Cow, Deer, Driftwood, Eagle Chief, Otter, Preacher, Skeleton, Turkey and Wildhorse Creeks in Oklahoma and China, Groesbeck, Paradise and Wanderers Creeks in western North Texas.

Several state highways were closed in portions of Oklahoma and western North Texas due to the flooding, and widespread areas of agricultural lands and rural roads were also inundated. However, no deaths or injuries were reported as a direct result of the flooding. Deer Creek firefighters rescued a woman and her 6-year-old child after their car ran into a ditch along the flooded intersection at NW 190th Street and Meridian Avenue 6 miles west of Edmond, OK. This flooding was produced by Deer Creek.

The most significant flood damage occurred along the Cimarron River in Logan County, where soil erosion along the north bank of the river claimed 2 houses and 1 mobile home in the Twin Lakes Sports Club near Crescent, OK. A total of 15 homes were evacuated by the Logan County Sheriff during the event. Environmental River Erosion Control (EREC) personnel reported that approximately 150 feet of the north bank had been washed away as a result of the floodwaters and that the bank was being eroded at rates up to 10 feet an hour during the peak of the flood. Damage estimates were around \$100,000.

Significant bank erosion was also reported along the Washita River near Chickasha, OK and the Pease River near Vernon, TX.

Floodwaters along Driftwood Creek in destroyed a bridge detour at a road construction site along State Highway 11 about 1 mile west of Burlington, OK. Damage estimates were approximately \$50,000.

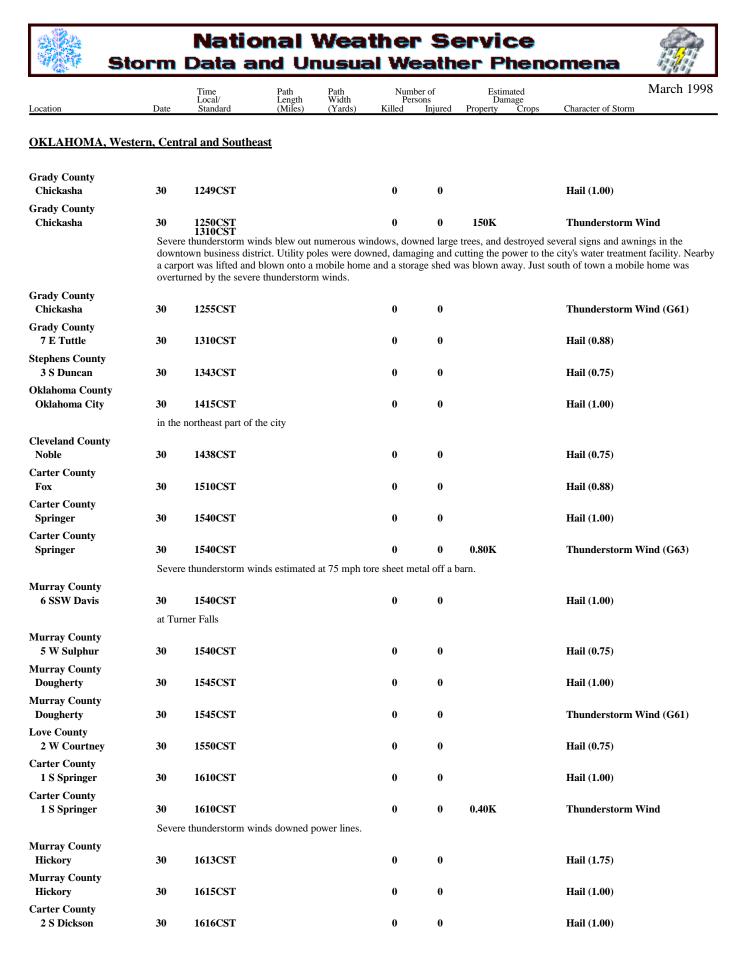
Residents in and near Walters, OK were forced to sandbag their homes due to flooding from the East Cache Creek. East Cache Creek crested at 28.3 feet during the early morning hours of March 17, 7.3 feet above flood stage.

Some of the road closures included: Meridian Avenue from Edmond Road to Covell near Edmond, OK State Highway 18 south of Chandler, OK

Sto	orm						ervice	iomena 🎆	
		Time	Path	Path Width	Numb Pers		Estimated	March 199	
Location	Date	Local/ Standard	Length (Miles)	(Yards)	Killed	Injured	Damage Property Crops	Character of Storm	
OKLAHOMA, Weste	rn, Cent	tral and Southe	east						
	State State State State	Highway 131 in V Highway 5A west Highway 5B betw Highway 152 near Highway 36 near Highway 5 east of	t of Temple, O veen 5A and U r Eakley, OK Grandfield, O	9K J.S. Highway K	70				
Acclain County Blanchard	18	2010CST			0	0		Thunderstorm Wind (G52)	
Diancharu					U	0		Thunderstorm wind (G52)	
efferson County 5 S Waurika	18	ted by NWS emple 2145CST	oyee		0	0		Hail (0.75)	
Grady County	10	2145051			U	U		Hall (0.75)	
2 W Ninnekah	18	2205CST			0	0	0.50K	Thunderstorm Wind	
	down		ainst a house,	trapping the				77 and 81 west of town. Some of the 0 building was also destroyed on	
Frady County									
3 E Tabler	18	2215CST			0	1	60K	Thunderstorm Wind	
	head		eated at a local	hospital. Th	ne other 4 of	ccupants r	eceived only minor	that was in the trailer sustained a serior scrapes and bruises. A neighboring	
Mcclain County 3 S Blanchard	18	2220CST			0	0	6K	Thunderstorm Wind (G61)	
		e thunderstorm wi ged the roof of a h		at 70 mph (l	oy an NWS	employee	e) destroyed a shed,	blew part of the roof off a barn, and	
Cleveland County									
Norman	18	2230CST			0	0	10K	Thunderstorm Wind	
	Sever	e thunderstorm wi	inds damaged	numerous ro	ofs and blev	w several	mobile homes off o	f their blocks.	
Acclain County	10				0				
2 N Dibble	18	2230CST			0	1	15K	Thunderstorm Wind	
	Severe thunderstorm winds destroyed a mobile home, injuring one of the three occupants. Three other homes in the area were damaged and two mobile homes were blown off of their blocks. Large trees were also split.								
Cleveland County	10				0	0			
Noble	18	2235CST			0	0		Thunderstorm Wind (G58)	
	report	ted by NWS empl	oyee						
arvin County	10	2255CST			0	0	117	There Jacust 1174-1	
Elmore City	18	2255CST			0	0	1K	Thunderstorm Wind	
	Sever	e thunderstorm wi	inds downed I	imbs, awning	s, and telev	ision ante	nnae throughout to	wn.	
arvin County 1 SSW Pauls Valley	18	2255CST			0	0		Thunderstorm Wind (G64)	
2 55 TT LUIS TUNCY		ured at the Oklaho	ma Mesonet s	ite	0	v		(GUT)	
arvin County	measu	area at the Okidilo	and mesonet s						
Pauls Valley	18	2300CST			0	0	2.5M	Thunderstorm Wind	
	maint	enance shop, 14 h	angars, and 8	to 10 planes	were compl	letely dest	royed. Damage at t	amage in town. At the airport a he airport was estimated at \$1,500,00. e roof, walls, and garage doors. The Pa	

maintenance shop, 14 hangars, and 8 to 10 planes were completely destroyed. Damage at the airport was estimated at \$1,500,00. An Oklahoma Natural Gas shop south of Pauls Valley sustained \$150,000 in damage to the roof, walls, and garage doors. The Pau Valley armory lost most of its new roof and air conditioner in the severe storm. Outbuildings, signs, and trees were destroyed throughout town. An historic barn was also destroyed. Total damage in the area was estimated at 2 to 3 million dollars.

s Vet s	torm						e <b>rvice</b> er Phen	omena	
Looption	Dete	Time Local/	Path Length (Miles)	Path Width	Numb Pers	ons	Estimated Damage	Character of Storn	March 1998
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Crops	Character of Storn	1
<u>OKLAHOMA, We</u>	estern, Cent	ral and Southe	east						
Carter County Lone Grove	<b>18</b>	2303CST e thunderstorm wi	inds blave the	roof off a lur	0 nhar vard	0	8K	Thunderstorm	Wind
Love County Marietta	18	2315CST	inds blew the		0	0		Hail (0.75)	
Marshall County Little City	18	2340CST			0	0		Hail (0.88)	
Seminole County Wewoka	18	2350CST			0	0		Thunderstorm	Wind (G52)
Bryan County Durant	19	0000CST			0	0		Thunderstorm	Wind (G52)
	report Grady mobil A seco with a	s of severe hail we and McClain Core homes. Two ser ond storm along th n estimated \$1,00	ere received, unties from w rious injuries he line produc 00,000 damag	but the major vest of Ninnel resulted. ced similar se e.	ity of damag kah to near I vere damage	ge resulte Dibble. W e in Pauls	d from severe thunded Vinds estimated at 70	Oklahoma during the o erstorm winds. One s D-80 mph destroyed ti Valley Airport was p	torm moved across rees and several
OKZ004>012	Harpe 19	r - Woods - Alfal 0100CST 2300CST	lfa - Grant -	Kay - Ellis -	Woodward 0	l - Major 0	- Garfield	Heavy Snow	
	confir northy	ed to an area nort westward. Seven t eratures warmed f	th of a Reydon to eight inche	n-Enid-Kaw I s fell from A	Lake line, wi morita to Fre	th amour eedom to	nts over 3 inches from Laverne, and 9 inches	f the 19th. Snow acc n Arnett to Ringwood es accumulated 8 mil for only a few days in	l to Braman and es north of Buffalo.
Ellis County 7 W Arnett	27	0200CST			0	0		Hail (0.75)	
Caddo County							517		XX7:
1 S Carnegie		0430CST e thunderstorm wi gie until 10 am th	1	t of the roof c	0 off of a pean	0 ut barn ar	<b>5K</b> nd downed 11 power	Thunderstorm poles. Power was of	
Jefferson County Waurika	27	0600CST			0	0	2.4K	Thunderstorm	Wind
	Thunc	lerstorm winds do	owned 8 high	voltage powe	r poles, cutti	ing power	r to Waurika and Ter	ral until after 7 pm th	at evening.
Stephens County Marlow	27	0600CST			0	0	0.50K	Thunderstorm	Wind
	Power	poles were blown	n down by a l	ine of thunde	rstorms, wit	h winds e	estimated at 50 to 55	mph.	
Seminole County Seminole	27	0900CST			0	0	0.10K	Thunderstorm	Wind
	Strong	g winds downed n	umerous brar	nches up to 6	inches in dia	ameter.			
Harper County Laverne	30	0124CST			0	0		Hail (0.75)	
Harper County 14 S Selman	30	0230CST			0	0		Thunderstorm	Wind (G57)



St	orm						e <b>rvice</b> er Pheno	omena	
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numb Pers Killed	er of ons Injured	Estimated Damage Property Crops	Character of Storm	March 1998
OKLAHOMA, Wes	tern, Cent	tral and Southe	<u>ast</u>						
	accom	panied by west w	inds of 45 to 5	0 mph					
Carter County Dickson	30	1618CST			0	0		Hail (1.00)	
Pontotoc County 2 N Allen	30	1645CST			0	0		Hail (1.00)	
Coal County 7 NNE Tupelo	30	1705CST			0	0		Hail (0.75)	
Hughes County 5 WNW Calvin	30	1710CST			0	0		Thunderstorm	Wind (G50)
	measu	ared at the Oklahor	ma Mesonet si	te					
Hughes County 1 W Atwood	30	1715CST			0	0		Hail (0.75)	
Hughes County Calvin	30	1717CST			0	0		Hail (0.88)	
Hughes County Lamar	30	1718CST	0.6	25	0	0		Tornado (F0)	
	across tornac of the blown blew t	s Lamar Mountain lo moved north alc path, the roof was a down, and a tree the roof off a work	just southwest ong the west ec blown off a cu was uprooted. shop and tosse	of town. The lge of town ow shed. Ju Shutters w ed a trampol	his first funn for about .4 st north of the ere blown of ine over a h	nel lifted a miles the here a trav ff the next ouse. At t	escribed a brief funne ind then a second funn n veered to the northe vel trailer and dog hou t house to the north. A his point the tornado t ge path was about .6 m	nel formed and touch ast before lifting. O se were blown over, About a block north o urned to the northeas	ed down. The n the southern end an antenna was of there the tornade st and destroyed a
Johnston County Coleman	30	1730CST			0	0		Hail (0.75)	
Bryan County 1 N Calera	30	1750CST			0	0		Hail (0.75)	
Atoka County 2 N Farris	30	1845CST			0	0		Hail (0.75)	
	Sumn	nary of events of N	Iarch 30th:						
	A line	e of thunderstorms	formed along				ss central and souther s, and one tornado. T		

the state from Kansas to Texas and produced large hail, damaging winds, and one tornado. The largest hail (golf ball-sized) was reported in Hickory in Murray County. Widespread wind damage occurred in Chickasha in Grady County as one storm evolved into a bow-echo. As the line of storms continued to move east, they developed comma-head radar signatures. One of these storms produced a small tornado (F0) in Lamar in Hughes County.

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

## **TEXAS, Western North**

Baylor County 1 SW Seymour	18	2005CST	0	0	Thunderstorm Wind (G52)
Archer County 7 S Dundee	18	2035CST	0	0	Hail (0.75)
Archer County Lake Kickapoo	18	2040CST	0	0	Hail (0.88)
Archer County 4 SW Archer City	18	2045CST	0	0	Hail (1.00)



## National Weather Service Storm Data and Unusual Weather Phenomena

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numb Pers Killed		Estimated Damage Property Crop	s Character of Storm	March 199
TEXAS, Western Nortl	<u>h</u>								
Archer County									
Lakeside City	30	1238CST			0	0		Hail (0.75)	
Wichita County									
Wichita Falls	30	1240CST			0	0		Hail (0.88)	
	on the	e south side of town	l						
Archer County									
Archer City	30	1300CST			0	0		Thunderstorm	Wind (G52)
Archer County									
2 SE Lakeside City	30	1300CST			0	0		Hail (0.75)	
	at the	intersection of Hig	hway 281 an	d FM 1954					
Wichita County									
Wichita Falls	30	1300CST			0	0		Hail (1.00)	
Clay County									
Dean	30	1319CST			0	0		Hail (0.88)	
	on the	e north side of town	L						
Clay County									
2 W Deer Creek	30	1340CST			0	0		Hail (0.88)	
	one m	ile south of the inte	ersection of I	FM 172 and F	FM 1883, or	n FM 1883	3		
Clay County									
Lake Arrowhead	30	1340CST			0	0		Thunderstorm	Wind (G52)
	on the	e east side of Lake A	Arrowhead						
Clay County									
Henrietta	30	1348CST			0	0		Hail (0.88)	
Clay County									
Henrietta	30	1348CST			0	0	0.50K	Thunderstorm	Wind
		e thunderstorm win lown over.	ds estimated	l at 70 mph de	owned large	e trees and	power lines. Roof	fs were damaged and a	small office traile
Clay County									
2 S Joy	30	1402CST			0	0		Hail (0.88)	
Clay County									
Clay County 12 S Henrietta	30	1408CST			0	0		Hail (0.75)	

Severe thunderstorms formed along a cold front as it moved across southern Oklahoma and into north Texas. Storms developed over Archer and Wichita Counties around midday then moved east into Clay County by early afternoon. Hail as large as quarters fell in Wichita Falls. Wind gusts were estimated as high as 70 mph in Henrietta (Clay County).

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