

National Weather Service Storm Data and Unusual Weather Phenomena

	_	Time Local/	Path Length	Path Width	Numl Per	ber of sons	Estimated Damage		July 1998	
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Crops	Character of Storm		
ARKANSAS, Northwes	<u>t</u>									
Sebastian County Ft Smith	09	1839CST			0	0		Hail (0.75)		
Sebastian County Ft Smith	09	1840CST			0	0		Hail (1.00)		
Sebastian County Ft Smith	09	1841CST			0	0		Hail (1.75)		
	Location: Fort Smith Police Department									
	Summary of events for July 9 1998:									
	An isolated, stationary severe thunderstorm developed over the city of Fort Smith around 730 PM CDT on July 9. This storm produced hail as large as golfballs before weakening below severe limits by 800 PM CDT.									
Washington County (Fyv)Fayetteville Ar	12	0116CST			0	0		Tstm Wind/Hail		
	The ASOS at Drake Field in Fayetteville measured a wind gust of 52 mph at 216 AM CDT with a passing thunderstorm. This was one in a series of thunderstorms that moved across the area during the early morning hours along a nearly stationary line. Rainfall at Drake Field totalled 2.26 inches from this event. (No hail was reported with this storm.)									
ARZ001>002-010>011- 019>020-029	Bento	n - Carroll - Was	shington - Ma	adison - Cra	wford - Fra	nklin - Sel	bastian			
	20 31	0000CST 2359CST			2	0		Excessive Heat		
	A blistering heat wave struck the south-central part of the nation in July 1998, including much of western and northwestern Arkansas. The second half of the month also saw little, if any, rainfall in northwest Arkansas. This was all brought about by a persistent upper level ridge of high pressure over the south-central and southwestern parts of the nation.									
	In the Arkansas River valley at Fort Smith, the temperature rose to at least 100 degrees Fahrenheit on 12 of the last 14 days of the month and reached as high as 107 on the 30th. Further north at Fayetteville, the temperature rose to at least 95 degrees on 12 of the last 14 days of the month and reached as high as 101 on the 30th. 100+ degree temperatures are certainly unusual in the higher elevations of northwest Arkansas. Neither Fort Smith nor Fayetteville saw measurable rainfall from the 13th through the end of the month.									
	Two deaths in northwest Arkansas are blamed on the heat. According the Arkansas Department of Health's Center for Health Statistics, two Benton County infants died from the heat. Newspaper articles did not list the gender of the victims, nor did they list the date or location of their deaths. ?00T, ?00T									
OKLAHOMA, Eastern										
Creek County	02	0 2 20/08T			0	0	1012	Hail (2.75)		
5 IN W DIISIOW	U2 Baseb	vall sized hail dam	aged several (care and a ho	U Usa naar Bri	stow	10K	Hall (2.75)		
Tulsa County	Daseu	an-sized han dan	lageu several c	cars and a no	use near DI	stow.				
Broken Arrow	02	0715CST			0	0		Hail (0.75)		
Latimer County Wilburton	02	1530CST			0	0		Hail (0.88)		
	Summary of events for July 2 1998:									
	Leftover outflow boundaries from non-severe thunderstorms on July 1 combined with an upper level trough caused isolated severe thunderstorms to develop early on the morning of July 2. The main threat with these isolated storms was hail as large as baseballs near Bristow. Another isolated severe thunderstorm developed during the afternoon along another old leftover boundary.									
OKZ049-053-065>066-	Pushmataha - Choctaw - Okfuskee - Okmulgee - Mcintosh - Pittsburg - Haskell - Latimer - Le Flore									
0/1-0/3/0/0	06 31	0000CST 2359CST			0	0	500M	Drought		
	A devastating drought and heat wave affected southeastern Oklahoma farmers during the month of July. At McAlester, the only rainfall during July was 0.19" on the first two days of the month. The southeast Oklahoma climate division (which includes Choctaw, Pushmataha, Latimer and Le Flore Counties) received 50 percent of normal rainfall from May 1 through July 31. By the end of July, southeast Oklahoma was classified by the Palr 1 ht Index as being in the midst of a "severe drought", while east central									

Oklahoma was experiencing "moderate drought. From a historical perspective, the period from June 1-July 31 was the third driest on record in southeast Oklahoma, while the period from April 1-July 31 was the fourth driest on record in east central Oklahoma.

		Natio	onal	Weat	ther	Se	rvice			
Sto	rm	Data a	nd U	nusua	l We	athe	er Pher	omena		
Logation	Data	Time Local/	Path Length	Path Width	Numbe Perso	er of ons	Estimated Damage	Character of Ste	July 1998	
Location	Date	Standard	(Miles)	(Yards)	Killed	injured	Property Crops	Unaracter of Storm		
OKLAHOMA, Eastern	<u>1</u>									
OKZ049-053-060-	Pushr	nataha - Choctav	w - Tulsa - Ci	reek - Okfusk	ee - Okmulş	gee - Wag	oner - Cherokee ·	· Muskogee - Mcintosh	- Sequoyah -	
064>068-070>076	Pittsb 06 31	urg - Haskell - L 0000CST 2359CST	atimer - Le F	Flore	5	0		Excessive Heat		
	A blistering heat wave struck the south-central part of the nation during July 1998, including much of eastern Oklahoma. A drought also accompanied the heat wave in southeast Oklahoma, combining with the heat wave to cause devastating crop damage. (For specific information on the drought aspect and crop damage, see the Drought entry in eastern Oklahoma's July Storm Data.) This was all brought about by a persistent upper level ridge of high pressure over the south-central and southwestern parts of the nation. Temperatures in some portion of southeast Oklahoma rose above 100 degrees on all but two days of the month, particularly further south in Choctaw and Pushmataha Counties. At the McAlester ASOS, 100+ degree temperatures were recorded on 24 out of 31 days									
	during July. In fact, there were 15 consecutive days above the century mark from the 17th through the 31st, and the mercury soared to at least 105 degrees every day from the 23rd through the 31st, rising as high as 107 on three days. The average high temperature for the entire month of July in McAlester was 102.0 degrees. The average monthly temperature was 89.3 degrees, or 7.4 degrees above normal. The temperature failed to fall below 80 degrees on eight days of the month.									
	Further north at the Muskogee ASOS, conditions were similar as temperatures reached at least 100 degrees on all but one day from the 18th through the 31st. The temperature rose as high as 107 on the 26th.									
	In Tulsa, weak cold fronts put a damper on the extreme heat for two to four days at a time, but temperatures reached at least 100 degrees eight times in July. The temperature rose as high as 106 on the 30th.									
	Five deaths in eastern Oklahoma during July are blamed on the heat, not including a 40-year old man who suffered a heat stroke in June and died on July 13. The first was a 40-year old Tulsa man who suffered a heat stroke near 800 S. Boulder Avenue in downtown Tulsa on July 10. The high temperature that day in Tulsa reached 99 degrees after a morning low of 80 with afternoon heat indices near 110 degrees. An 86-year old Hugo man died on July 15 after suffering from dehydration and heat. Another 40-year old Tulsa man and a 63-year old Broken Arrow man had also died of heat stroke through July 20, but the exact day of these two deaths was not included in newspaper articles and is unknown. On the 30th, a 39-year old Henryetta woman died of hyperthermia. The temperature at Tulsa rose that day to 106, and McAlester rose to 105.									
	The State Health Department reported that Emergency Medical Services throughout Oklahoma had responded to 452 heat-related injuries during the period June 1 to July 31, but it is unknown when and how many of those took place in the eastern portion of Oklahoma. M40OU, M40OT, M62OT, M86PH, F39OT									
Pawnee County 3 ENE Pawnee	08 Sumr	0140CST nary for July 8 19	98:		0	0		Thunderstorm V	Vind (G75)	
	A we thund small and th	akening area of sh erstorms remained -scale wet microbu nere was no damag	owers and thu d below severe urst. To demo ge reported wi	inderstorms more limits. Howe onstrate the sma th this event, d	oved southea ever, the Paw all scale of the lespite the se	nst out of k nee meson his event, t verity of th	Kansas during the e net site measured a the Pawnee Police he winds at the mes	arly morning of July 8. gust to 86 mph in what Department logged 40 n sonet site.	Most all of these could have been a nph winds in town	
Le Flore County 2 W Summerfield	11	1944CST			0	0		Hail (1.00)		
Rogers County Inola	12	0110CST			0	0		Hail (0.75)		
Rogers County Inola	12	0110CST			0	0		Thunderstorm V	Vind (G52)	
	Sumr	nary of events for	July 11-12 19	998:						
	An isolated severe thunderstorm developed on the evening of July 11 over central Le Flore County near a weak surface boundary with the approach of a weak upper level disturbance. This storm produced hail as large as quarters.									
	Later just n AM (after midnight, the orth of Tulsa to ne CDT as it moved to	west flow aloft kicked off more thunderstorms from near Ponca City to corms became severe over southern Rogers County between 145 and 215 evere wind and hail near Inola.							
Pittsburg County Mc Alester	24	1845CST			0	0	1.5K	Thunderstorm V	Vind	



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OKLAHOMA, Eastern

An isolated thunderstorm produced an apparent downburst wind on the north side of McAlester, blowing down several trees and privacy fences.