

OKLAHOMA MONTHLY SUMMARY JULY 1992

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MONTHLY SUMMARY FOR JULY 1992

July 1992 was generally wet across Oklahoma with below normal temperatures and unsettled weather conditions unusual for mid-summer. Statewide averaged precipitation for the month totaled 4.28 inches, exceeding the 30-year normal for the month by 1.66 inches.

Most areas of the state received plenty of rainfall during the month, but several stations in the northwest, notably Buffalo, Fargo and Gage reported totals that were about half of their normal July precipitation amounts. Precipitation for the state during the first seven months of 1992 has averaged 23.73 inches, 3.41 inches above normal.

Despite 14 different days with at least one reported maximum temperature exceeding 100, the 80.2 degree average temperature for the month was 1.9 degrees below normal. The year-to-date average temperature for the state is 60.8 degrees, which is one degree above normal.

A cold front moved through the state on the 2nd, bringing significant cooling to the northwest. A tornado spawned by thunderstorms associated with the front struck Collinsville, destroying seven homes and severely damaging 10 others. Another tornado touched down briefly near Oologah. Substantial wind damage was reported elsewhere in the eastern half of the state. Periods of locally heavy rain continued in eastern Oklahoma through the 5th.

High temperatures reached 100 in parts of western Oklahoma on the 5th through the 9th. Buffalo reported the state's highest temperature for the month on the 7th with a reading of 108. Guymon reported 107 degrees that same day.

A progression of disturbances, culminating in a cold front which moved through the state on the 15th and 16th, produced daily episodes of thunderstorms, many producing locally heavy rains, local flooding, large hail and damaging winds. Daily precipitation amounts in excess of three inches were reported at Elmore City (3.13 inches reported on the morning of the 13th), Apache (3.27 inches reported on the 14th), Caney (3.50 inches reported on the morning of the 15th). Daily precipitation exceeding three inches was reported on the morning of the 17th at Durant (3.74 inches), Tuskahoma (3.11 inches) and Allen (3.05 inches). Hail "the size of silver dollars" was reported in Choctaw County on the 14th.

Strong thunderstorms on the 15th toppled some large trees and led to flash flooding along creeks in the Chickasaw National Recreation Area near Sulphur. Officials in Miami reported flooding along the Neosho River, associated somewhat with heavy rains upstream in Kansas and Missouri.

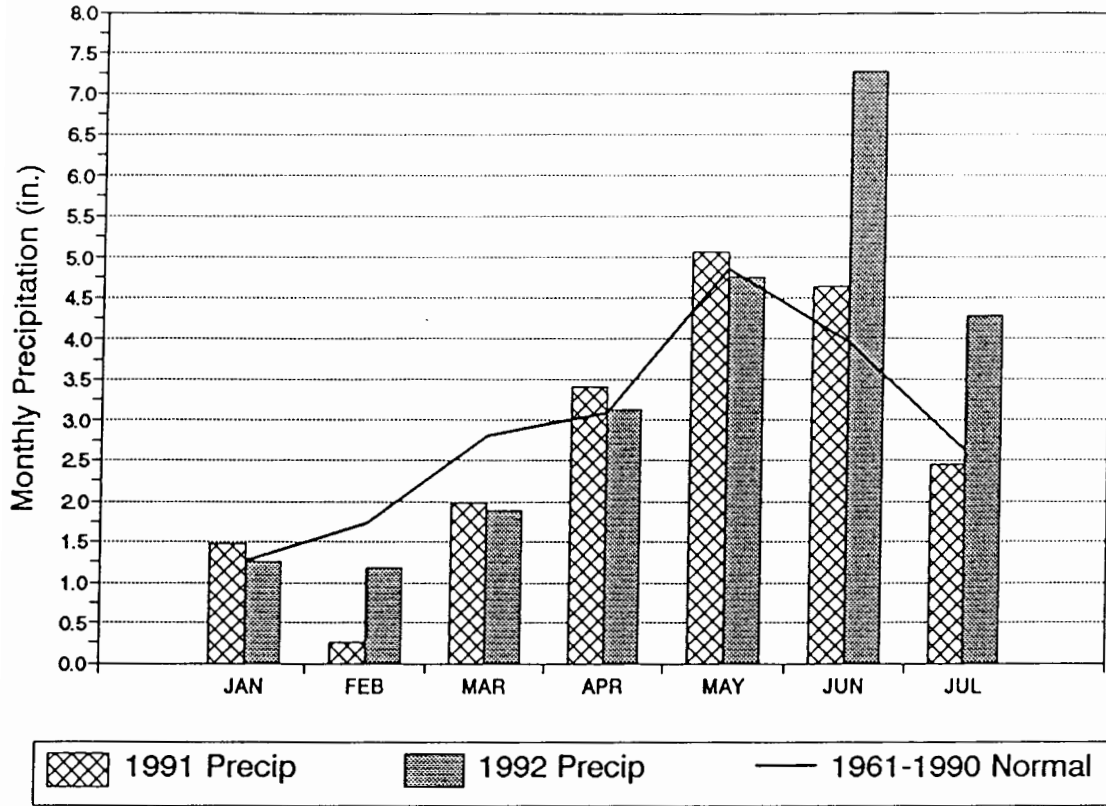
High temperatures on the 16th were in the 70s in many areas of the state. Lows in the upper 50s were reported on the 17th, 18th and 19th. Relatively mild weather persisted through the next week producing high temperatures in the upper 80s to low 90s. Unsettled weather continued, however, as thunderstorms occurred on a daily (or nightly) basis in many areas across the state. A thunderstorm in Pryor on the 20th damaged several structures and caused some street flooding.

Temperatures reached into triple digits in parts of western Oklahoma on the 25th and 26th. A cold front with significant upper-level support entered northwestern Oklahoma early on the 26th and crossed the state over the next two days, producing locally heavy rains and some large hail and strong winds, most notably in central and eastern Oklahoma. Precipitation reports received on the morning of the 26th included 5.1 inches at Stigler (media report), 4.44 inches at Seminole, 4.2 inches at Tuskahoma and 4.04 inches at Eufaula.

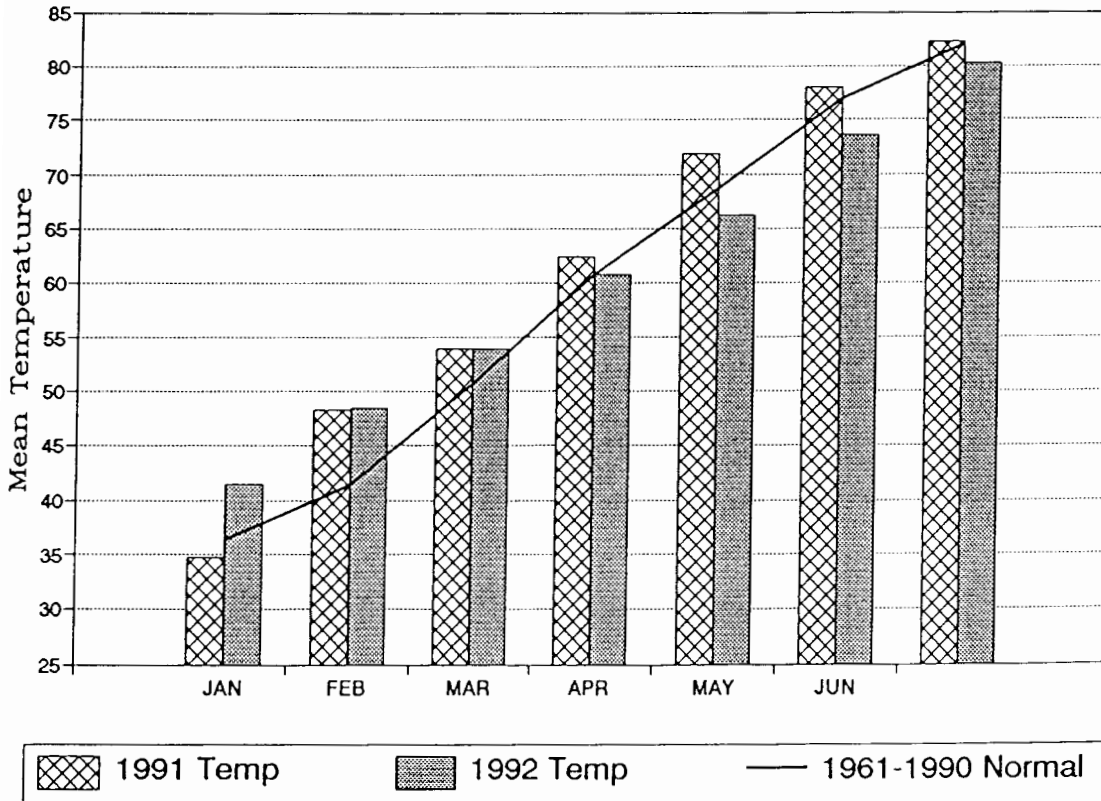
Stormy weather continued for the remainder of the month. An unusually strong mid-summer cold front entered the state on the 30th, leading to another round of strong thunderstorms. A tornado was reported one mile east of Jay. Large hail and wind damage were reported in southwestern, central and northeastern portions of the state. Several stations reported precipitation in excess of two inches for the 24-hours ending on the morning of the 31st, led by 3.92 inches at Broken Bow.

Howard L. Johnson

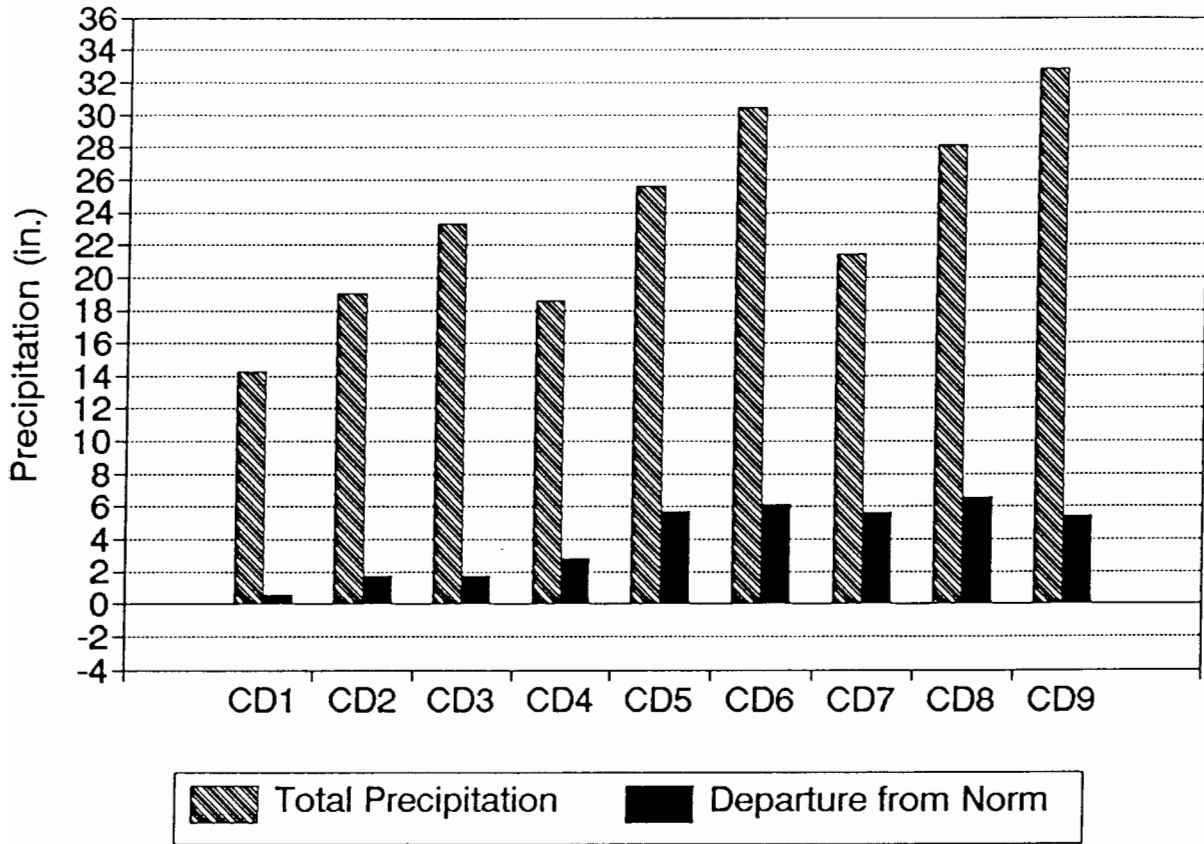
1991 and 1992 STATEWIDE PRECIPITATION January Through July Monthly Totals



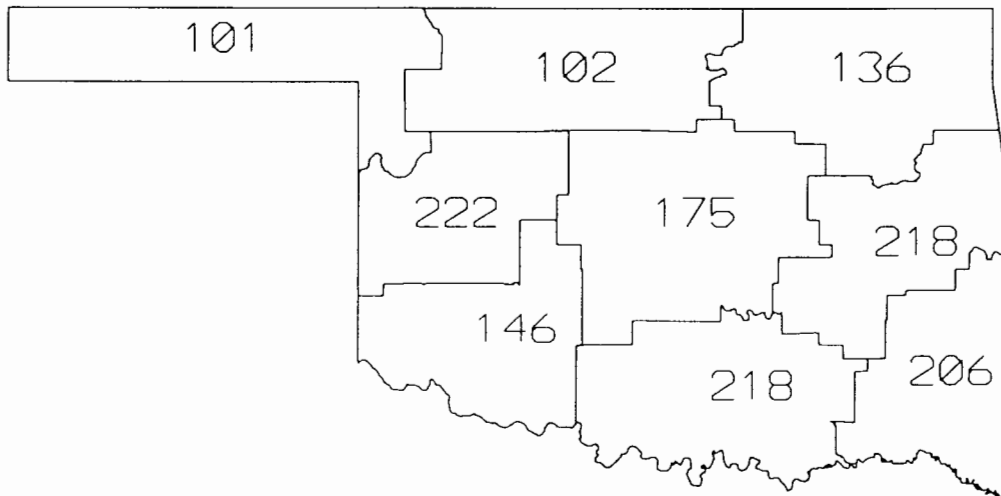
1991 and 1992 STATEWIDE TEMPERATURES January Through July Monthly Averages



CD Averaged Precipitation January Through July 1992



JULY 1992 CLIMATE DIVISION PERCENT OF NORMAL PRECIPITATION



EXTREME VALUES OF TEMPERATURE AND PRECIPITATION IN EACH CLIMATE DIVISION
JULY, 1992

CD	MAX			MIN			24-HOUR			MONTHLY	
	TEMP	DATE	LOCATION	TEMP	DATE	LOCATION	PRECIP	DATE	LOCATION	PRECIP	LOCATION
1	108	7	BUFFALO	54	3	GAGE	2.04	14	GUYMON	6.41	GUYMON
				54	31	GAGE					
				54	3	GUYMON					
2	105	2	CHEROKEE	53	3	FREEDOM	2.26	16	RED ROCK	5.03	MEDFORD
3	96	25	JAY TOWER	59	29	PAWHUSKA	2.50	5	PRYOR	7.27	KANSAS
	96	26	JAY TOWER	59	19	VINITA					
	96	27	JAY TOWER								
4	103	1	TALOGA	58	31	HAMMON	3.60	27	ERICK	7.16	CORDELL
				58	31	TALOGA					
5	100	6	HENNESSEY	57	31	HENNESSEY	4.44	27	SEMINOLE	8.75	WEWOKA
	100	7	HENNESSEY								
6	97	26	MCCURTAIN	61	17	OKMULGEE	4.04	27	EUFULA	9.13	STILWELL
7	106	26	HOLLIS	59	18	WICHITA MT WLR	3.27	14	APACHE	6.87	APACHE
	106	26	WALTERS	59	19	WICHITA MT WLR					
8	99	15	WAURIKA DAM	55	4	TISHOMINGO	3.74	17	DURANT	8.71	DURANT
				55	12	WAURIKA					
9	95	26	BOSWELL	61	14	HUGO	4.20	27	TUSKAHOMA	8.64	TUSKAHOMA

TABLE OF 1991/1992 COMPARISONS

Station	July Temperature (F)		July Precipitation (in.)	
	1991	1992	1991	1992
Arnett	78.8	76.3	2.14	1.58
Enid	82.7	80.0	1.69	3.41
Mutual	82.5	78.9	.99	2.38
Tulsa	85.0	82.1	.35	1.79
Elk City	81.9	79.9	1.48	5.81
Oklahoma City	82.3	81.1	1.98	4.01
McAlester	81.8	81.4	4.33	6.45
Altus Irr Sta	83.7	82.1	1.74	1.71
Durant	81.8	80.1	1.79	8.71
Ada	80.6	79.7	4.52	6.21
Antlers	81.3	79.8	3.08	7.51

EXTREMES

Variable	Station	Division	Observation	Date
Minimum temperature (F)	Boise City	1	52	3
Maximum temperature (F)	Optima Lake	1	109	8
Maximum 24-hour precipitation	Seminole	5	4.44"	27

JULY 1992 SUMMARY FOR NORTHWEST DIVISION (CD1)

NAME	ID	CD	DEV				HEAT		DEV		COOL		DEV		TOT	NUM	DEV	MAX	24-HR	DAY
			MEAN	NUM	FROM	MAX	MIN	DEG	FROM	DEG	FROM	DEG	FROM	PPT						
ARNETT	332	1	76.3	31	-4.1	99.	2	55.	4	.0	.0	349.5	-127.5	1.582	31	-.31	1.07	16		
BEAVER	593	1	77.6	31	-3.1	106.	8	55.	3	1.5	1.5	391.0	-96.0	2.731	31	-.13	.98	14		
BOISE CITY 2 E	908	1	76.1	31	-1.8	104.	7	52.	3	.0	.0	344.5	-55.5	2.301	31	-.45	.38	21		
BUFFALO	1243	1	82.5	31	-.7	108.	7	55.	3	.0	.0	541.5	-22.5	1.500	31	-1.49	.80	13		
FARGO	3070	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.023	31	-1.02	.66	16		
GAGE FAA APT	3407	1	79.3	31	-2.6	101.	7	54.	31	.0	.0	444.0	-80.0	.953	31	-.92	.87	16		
GATE	3489	1	79.8	31	-2.0	108.	8	58.	3	.0	.0	460.0	-61.0	1.921	31	-.51	.68	16		
GOODWELL RES ST	3628	1	76.2	31	-2.3	106.	8	55.	18	.0	.0	348.0	-71.0	3.964	31	1.44	1.13	18		
GUYMON	3835	1	77.3	28	*****	107.	7	54.	3	.0	*****	344.0	*****	6.410	30	*****	2.04	14		
HOOKER	4298	1	77.3	31	-2.7	108.	8	54.	3	.0	.0	380.5	-84.5	3.620	31	1.33	1.23	16		
KENTON	4766	1	74.8	31	-2.7	104.	7	55.	20	.0	.0	303.0	-85.0	2.330	30	*****	1.01	12		
LAVERNE	5045	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.223	31	-.31	1.33	16		
OPTIMA LAKE	6740	1	78.3	31	*****	109.	8	55.	3	.0	*****	412.5	*****	6.250	31	*****	1.68	11		
REGNIER	7534	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.193	31	.85	1.32	21		
TURPIN 4 SSE	9017	1	77.1	31	*****	107.	8	54.	4	.0	*****	376.5	*****	3.630	29	*****	1.15	14		

JULY 1992 SUMMARY FOR NORTH CENTRAL DIVISION (CD2)

NAME	ID	CD	DEV				HEAT		DEV		COOL		DEV		TOT	NUM	DEV	MAX	24-HR	DAY
			MEAN	NUM	FROM	MAX	MIN	DEG	FROM	DEG	FROM	DEG	FROM	PPT						
ALVA	193	2	82.0	31	*****	102.	7	56.	3	.0	*****	525.5	*****	3.030	31	*****	1.65	14		
VANCE AFB	302	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.171	31	*****	1.56	16		
BILLINGS	755	2	80.2	31	-3.1	98.	8	59.	31	.0	.0	470.5	-96.5	2.580	31	-.55	1.35	14		
BLACKWELL 2E	818	2	80.9	31	-1.7	99.	7	59.	3	.0	.0	493.5	-52.5	2.403	31	-.74	1.15	16		
CEDARDALE	1620	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.745	31	*****	1.67	14		
CHEROKEE	1724	2	83.0	30	-1.1	105.	2	59.	3	.0	.0	541.0	-51.0	3.551	31	.81	1.50	11		
ENID	2912	2	80.2	30	-3.1	98.	7	60.	17	.0	.0	455.0	-112.0	3.410	31	.65	1.32	16		
FT SUPPLY DAM	3304	2	78.2	31	-2.5	99.	8	56.	3	.0	.0	409.0	-78.0	2.444	31	.25	1.58	14		
FREEDOM	3358	2	79.2	31	-3.8	103.	8	53.	3	.0	.0	439.0	-119.0	2.784	31	.42	1.28	14		
GREAT SALT PLNS	3740	2	81.0	31	-2.0	101.	8	58.	3	.0	.0	496.0	-62.0	1.730	31	-.96	.74	16		
HARDY	3909	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.590	29	*****	1.33	15		
HELENA 1 SSE	4019	2	80.5	31	-1.4	101.	2	60.	3	.0	.0	480.5	-43.5	1.582	31	-1.04	1.04	16		
JEFFERSON	4573	2	81.7	31	-1.8	101.	7	58.	3	.0	.0	517.5	-56.5	3.470	31	.14	1.15	31		
LAMONT	5013	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.730	31	*****	2.03	16		
MEDFORD	5768	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.031	31	*****	1.20	31		
MUTUAL	6139	2	78.9	31	-2.9	104.	2	57.	31	.0	.0	432.0	-89.0	2.380	31	.03	1.36	14		
NEWKIRK	6278	2	80.4	31	-2.1	97.	8	59.	3	.0	.0	477.5	-65.5	2.712	31	-.57	1.33	16		
ORIENTA	6751	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.730	31	-.87	.82	16		
PERRY	7012	2	82.0	30	-.7	97.	8	62.	17	.0	.0	511.0	-38.0	3.040	31	-.05	1.72	16		
PONCA CITY FAA	7201	2	82.3	31	-.2	99.	10	61.	17	.0	.0	535.5	-7.5	2.343	31	-1.36	1.19	14		
RED ROCK 1 NNE	7505	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.620	31	1.73	2.26	16		
WAYNOKA	9404	2	80.6	31	-2.6	102.	1	56.	3	.0	.0	483.5	-80.5	2.230	31	-.20	1.28	16		
WOODWARD	9760	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.473	31	-1.12	.81	16		

JULY 1992 SUMMARY FOR NORTHEAST DIVISION (CD3)

NAME	ID	CD	DEV				HEAT		DEV		COOL		DEV		TOT	NUM	DEV	
			MEAN	NUM	FROM	MAX	DEG	DAY	FROM	DEG	FROM	DEG	FROM	NORM			FROM	NORM
BARNSDALL	535	3	79.5	31	-2.7	93.	8	60.	29	.0	.0	449.0	-84.0	3.300	27	*****	2.10	17
BARTLESVILLE 2W	548	3	80.3	31	-1.8	95.	8	59.	29	.0	.0	473.5	-56.5	3.084	31	.48	.83	16
BIXBY	782	3	79.6	31	-1.4	94.	7	61.	18	.0	.0	453.5	-42.5	2.430	31	-.44	.80	21
BURBANK	1256	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.420	31	2.18	2.06	13
CHELSEA 4 S	1717	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.370	31	*****	1.98	21
CLAREMORE	1828	3	79.2	31	-2.0	92.	26	63.	17	.0	.0	440.0	-62.0	4.220	31	1.25	1.24	5
CLEVELAND 5 WSW	1902	3	80.9	30	*****	94.	25	61.	17	.0	*****	478.5	*****	4.280	31	*****	1.96	14
FORAKER	3250	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.481	31	1.41	1.55	16
HOLLOW	4258	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.210	31	4.05	2.51	11
HOMINY	4289	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.880	31	.81	1.68	14
HULAH DAM	4393	3	78.9	22	*****	93.	27	60.	29	.0	*****	306.0	*****	3.380	26	*****	1.10	14
JAY TOWER	4567	3	81.3	18	*****	96.	27	64.	19	.0	*****	293.5	*****	2.200	18	*****	1.20	5
KANSAS 1 ESE	4672	3	77.3	31	-2.6	89.	26	60.	31	.0	.0	382.5	-79.5	7.273	31	4.66	2.15	31
KEYSTONE DAM	4812	3	78.9	27	*****	94.	26	62.	28	.0	*****	375.5	*****	2.080	29	*****	.69	17
LENAPAH	5118	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.410	31	*****	1.50	5
MANNFORD 6 NW	5522	3	80.1	31	-1.9	93.	8	60.	18	.0	.0	468.0	-59.0	3.500	31	.73	1.82	14
MARAMEC	5540	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.060	31	.27	1.46	14
MIAMI	5855	3	77.2	31	-2.9	90.	6	61.	28	.0	.0	377.0	-91.0	5.290	31	1.76	1.30	5
NOWATA	6485	3	78.8	31	-3.1	96.	24	61.	17	.0	.0	428.0	-96.0	4.481	31	1.65	1.53	5
ONETA 1 WNW	6713	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.330	31	*****	1.52	21
PAWHUSKA	6935	3	79.7	31	-1.9	93.	25	59.	29	.0	.0	455.5	-59.5	3.031	31	-.15	1.48	14
PAWNEE	6940	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.720	31	2.99	1.92	21
PRYOR 6 N	7309	3	77.6	31	-3.1	91.	31	62.	27	.0	.0	392.0	-95.0	5.834	31	3.08	2.50	5
RALSTON	7390	3	80.5	31	-1.4	95.	15	60.	20	.0	.0	479.5	-44.5	3.701	31	.76	1.52	14
RAMONA 4 N	7394	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.772	31	*****	.69	14
SKIATOOK	8258	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.280	31	-.86	1.25	14
SPAVINAW	8380	3	80.3	31	-1.7	91.	26	63.	17	.0	.0	473.0	-54.0	5.341	31	2.32	2.17	5
TULSA WSO APT	8992	3	82.2	31	-1.1	95.	24	64.	17	.0	.0	534.0	-33.0	1.794	31	-1.30	.99	16
UPPER SPAVINAW	9101	3	82.2	31	*****	97.	10	66.	28	.0	*****	534.5	*****	6.100	31	*****	2.20	5
VINITA 2 N	9203	3	79.0	29	*****	92.	25	59.	19	.0	*****	406.5	*****	2.682	31	-.28	1.43	5
WAGONER	9247	3	80.1	31	-1.8	95.	26	64.	28	.0	.0	469.5	-54.5	4.271	31	1.44	1.33	31
WANN	9298	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.830	31	*****	1.54	11
WYONONA	9792	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.342	31	*****	1.27	16

JULY 1992 SUMMARY FOR WEST CENTRAL DIVISION (CD4)

NAME	ID	CD	DEV				HEAT		DEV		COOL		DEV		TOT	NUM	DEV	
			MEAN	NUM	FROM	MAX	DEG	DAY	FROM	DEG	FROM	DEG	FROM	NORM			FROM	NORM
CANTON DAM	1445	4	79.2	31	-2.9	99.	2	60.	31	.0	.0	439.5	-90.5	1.830	31	-.52	.90	16
CHEYENNE	1738	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.560	31	1.83	2.80	16
CLINTON	1909	4	81.5	31	-2.3	102.	6	60.	17	.0	.0	510.5	-72.5	5.881	31	3.79	2.88	10
COLONY	2039	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.430	31	*****	1.65	21
CORDELL	2125	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.162	31	5.23	2.85	14
ELK CITY 1 E	2849	4	79.9	31	-2.0	100.	1	62.	17	.0	.0	462.5	-61.5	5.810	31	3.92	2.55	14
ERICK 4 E	2944	4	79.3	31	-2.4	101.	1	61.	17	.0	.0	444.0	-74.0	6.081	31	4.39	3.60	27
GEARY	3497	4	79.8	30	-2.4	96.	7	63.	17	.0	.0	444.5	-88.5	3.120	31	1.06	2.40	21
HAMMON 1 NNE	3871	4	78.2	27	*****	101.	2	58.	31	.0	*****	356.5	*****	4.420	31	2.43	2.23	16
LEEDEY	5090	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.090	31	2.31	2.32	14
MACKIE 4 NNW	5463	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.510	31	*****	1.17	16
MORAVIA 2 NNE	6035	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.211	31	2.45	2.00	27
OKEENE	6629	4	81.2	31	-2.3	100.	6	60.	4	.0	.0	502.5	-71.5	3.440	31	1.08	1.34	11
RETROP	7565	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.720	31	*****	2.80	27
REYDON	7579	4	80.3	30	-.3	101.	1	59.	31	.0	.0	460.0	-24.0	2.270	30	*****	1.24	16
SAYRE	7952	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.191	31	2.52	1.61	14
SWEETWATER 2 E	8652	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.730	31	*****	2.43	13
TALOGA	8708	4	79.9	31	-2.1	103.	1	58.	31	.0	.0	463.0	-64.0	4.470	31	2.24	1.85	14
THOMAS	8815	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.300	31	*****	1.22	16
VICI	9172	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.920	31	.76	1.95	14
WATONGA	9364	4	80.8	31	-1.6	98.	7	61.	31	.0	.0	488.5	-50.5	3.461	31	1.19	1.08	16
WEATHERFORD	9422	4	80.2	31	-1.9	100.	2	62.	31	.0	.0	470.0	-60.0	4.460	31	2.36	2.16	21

JULY 1992 SUMMARY FOR CENTRAL DIVISION (CD5)

NAME	ID	CD	DEV					HEAT		DEV		COOL		DEV		TOT	NUM	DEV	MAX	DAY
			MEAN	NUM	FROM	MAX	MIN	DEG	FROM	DEG	FROM	DEG	FROM	DEG	FROM					
			TEMP	OBS	NORM	TEMP	DAY	TEMP	DAY	DAY	NORM	DAY	NORM	PPT	OBS	NORM	24-HR	DAY		
AMBER	200	5	****	0	****	****	0	****	0	****	****	****	****	4.590	31	****	1.83	27		
ARCADIA	288	5	****	0	****	****	0	****	0	****	****	****	****	3.870	31	****	1.33	16		
TINKER AFB	325	5	****	0	****	****	0	****	0	****	****	****	****	6.481	31	****	1.40	16		
BLANCHARD 2 SSW	830	5	80.0	31	-2.6	96.	26	60.	17	.0	.0	466.0	-80.0	7.580	31	5.01	2.33	27		
BRISTOW	1144	5	80.3	31	-1.7	94.	26	61.	29	.0	.0	475.0	-52.0	2.950	31	.21	1.51	17		
CHANDLER	1684	5	81.0	25	****	96.	2	64.	31	.0	****	401.0	****	3.430	31	.72	1.22	21		
CHICKASHA EX ST	1750	5	81.4	31	-1.5	97.	26	62.	17	.0	.0	508.0	-47.0	4.250	31	2.16	1.56	14		
COX CITY 1 E	2196	5	****	0	****	****	0	****	0	****	****	****	****	1.020	31	****	.46	31		
CRESCENT	2242	5	****	0	****	****	0	****	0	****	****	****	****	3.640	31	****	1.62	14		
CUSHING	2318	5	79.3	30	-2.6	95.	3	63.	20	.0	.0	430.0	-94.0	3.060	31	-.06	1.21	14		
EL RENO 1 N	2818	5	81.1	31	-1.2	96.	7	62.	18	.0	.0	500.0	-36.0	2.510	31	.23	1.37	14		
GUTHRIE	3821	5	82.7	31	-.6	97.	10	62.	17	.0	.0	549.5	-17.5	3.451	31	1.12	1.39	16		
HENNESSEY 2 SE	4055	5	81.3	31	-2.0	100.	7	57.	31	.0	.0	506.0	-61.0	2.570	31	.02	1.21	14		
INGALLS	4489	5	****	0	****	****	0	****	0	****	****	****	****	2.021	31	****	1.26	14		
KINGFISHER 2 SE	4861	5	80.9	31	-2.5	98.	7	61.	31	.0	.0	493.5	-76.5	3.341	31	1.29	1.17	14		
KONAWA	4915	5	****	0	****	****	0	****	0	****	****	****	****	7.900	31	5.88	2.90	16		
MARSHALL	5589	5	****	0	****	****	0	****	0	****	****	****	****	3.080	31	.81	1.98	16		
MEEKER 4 W	5779	5	79.6	30	-2.3	94.	2	60.	17	.0	.0	436.5	-87.5	3.720	30	****	.92	13		
MULHALL	6110	5	****	0	****	****	0	****	0	****	****	****	****	2.470	31	****	1.40	14		
NORMAN 3 S	6386	5	80.8	30	-1.4	99.	26	59.	17	.0	.0	475.0	-58.0	6.471	31	3.71	3.27	27		
OILTON 2 SE	6616	5	****	0	****	****	0	****	0	****	****	****	****	3.330	31	****	1.97	13		
OKEMAH	6638	5	80.7	31	-.9	95.	26	63.	17	.0	.0	487.5	-27.5	8.100	31	4.94	2.21	21		
OKLAHOMA CTY WS	6661	5	81.1	31	-.9	98.	2	63.	17	.0	.0	500.0	-27.0	4.011	31	1.40	1.29	14		
PERKINS	7003	5	****	0	****	****	0	****	0	****	****	****	****	2.740	31	.08	1.28	16		
PIEDMONT	7068	5	****	0	****	****	0	****	0	****	****	****	****	2.580	31	****	1.16	14		
PRAGUE	7264	5	****	0	****	****	0	****	0	****	****	****	****	3.300	30	****	1.67	27		
PURCELL 5 SW	7327	5	80.4	31	-2.4	97.	26	61.	17	.0	.0	477.0	-75.0	4.572	31	1.81	2.00	27		
SEMINOLE	8042	5	81.9	31	-1.5	97.	27	62.	17	.0	.0	523.5	-46.5	7.330	31	4.81	4.44	27		
SHAWNEE	8110	5	****	0	****	****	0	****	0	****	****	****	****	3.880	31	1.71	1.42	27		
STELLA	8479	5	****	0	****	****	0	****	0	****	****	****	****	6.900	31	****	2.82	27		
STILLWATER 2 W	8501	5	80.6	31	-1.0	95.	8	60.	31	.0	.0	483.5	-31.5	2.350	31	-.55	1.17	14		
STROUD 1 N	8563	5	****	0	****	****	0	****	0	****	****	****	****	2.950	31	****	1.05	17		
TECUMSEH	8751	5	****	0	****	****	0	****	0	****	****	****	****	6.011	31	****	2.00	27		
TROUSDALE	8960	5	****	0	****	****	0	****	0	****	****	****	****	7.190	31	****	2.60	26		
UNION CITY 1 SE	9086	5	****	0	****	****	0	****	0	****	****	****	****	4.251	29	****	2.37	14		
WELTY 1 SSE	9479	5	****	0	****	****	0	****	0	****	****	****	****	5.380	31	****	1.70	27		
WEWOKA	9575	5	****	0	****	****	0	****	0	****	****	****	****	8.750	31	6.38	3.55	27		

JULY 1992 SUMMARY FOR EAST CENTRAL DIVISION (CD6)

NAME	ID	CD	DEV					HEAT		DEV		COOL		DEV		TOT	NUM	DEV	MAX	DAY
			MEAN	NUM	FROM	MAX	MIN	DEG	FROM	DEG	FROM	DEG	FROM	DEG	FROM					
			TEMP	OBS	NORM	TEMP	DAY	TEMP	DAY	DAY	NORM	DAY	NORM	PPT	OBS	NORM	24-HR	DAY		
ASHLAND	364	6	****	0	****	****	0	****	0	****	****	****	****	8.521	31	****	2.61	27		
BEGGS	631	6	****	0	****	****	0	****	0	****	****	****	****	5.900	31	****	2.46	21		
BOYNTON	1027	6	****	0	****	****	0	****	0	****	****	****	****	7.020	22	****	2.60	27		
CALVIN	1391	6	****	0	****	****	0	****	0	****	****	****	****	6.841	31	3.77	2.90	17		
CHECOTAH	1711	6	****	0	****	****	0	****	0	****	****	****	****	4.452	31	1.41	2.40	27		
CLAYTON 15 WNW	1858	6	****	0	****	****	0	****	0	****	****	****	****	8.530	31	****	3.42	27		
DEWAR 2 NE	2485	6	****	0	****	****	0	****	0	****	****	****	****	6.890	31	3.51	3.50	27		
DUSTIN	2690	6	****	0	****	****	0	****	0	****	****	****	****	6.100	31	****	3.38	27		
EUFULA	2993	6	****	0	****	****	0	****	0	****	****	****	****	6.310	31	3.02	4.04	27		
HANNA	3884	6	79.9	31	-1.9	94.	27	63.	18	.0	.0	463.0	-58.0	5.890	31	3.08	1.52	31		
HARTSHORNE	3946	6	****	0	****	****	0	****	0	****	****	****	****	6.710	31	****	2.79	17		
HASKELL	3956	6	****	0	****	****	0	****	0	****	****	****	****	3.970	31	1.36	1.40	21		
HOLDENVILLE	4235	6	79.7	31	-2.2	95.	26	62.	17	.0	.0	456.0	-68.0	7.430	31	4.65	1.77	17		
LAKE EUFAULA	4975	6	79.8	29	****	95.	13	65.	18	.0	****	429.0	****	6.711	29	****	2.70	27		
LYONS 2 N	5437	6	****	0	****	****	0	****	0	****	****	****	****	7.400	31	4.49	2.22	27		
MARBLE CITY	5546	6	****	0	****	****	0	****	0	****	****	****	****	3.812	31	****	1.60	17		
MCALESTER FAA	5664	6	81.4	31	-.5	95.	26	66.	18	.0	.0	509.5	-14.5	6.451	31	3.78	1.66	16		
MCCURTAIN 1 SE	5693	6	82.2	31	-.2	97.	26	63.	18	.0	.0	533.5	-5.5	6.361	31	3.19	3.50	27		
MUSKOGEE	6130	6	80.4	31	-1.8	95.	26	66.	17	.0	.0	478.0	-55.0	6.010	30	****	2.01	16		
OKMULGEE W W	6670	6	78.8	29	****	94.	27	61.	17	.0	****	401.5	****	5.311	31	2.62	1.67	17		
OKTAHA 2 NE	6678	6	****	0	****	****	0	****	0	****	****	****	****	5.360	31	****	2.46	27		
QUINTON	7372	6	****	0	****	****	0	****	0	****	****	****	****	6.821	31	3.36	2.89	27		
SALLISAW 2 NE	7862	6	79.2	31	-2.6	94.	26	62.	17	.0	.0	439.5	-81.5	4.210	31	1.21	1.70	17		
SCIPPIO	7979	6	****	0	****	****	0	****	0	****	****	****	****	4.120	31	****	1.84	17		
SCRAPER	7993	6	****	0	****	****	0	****	0	****	****	****	****	5.970	31	****	2.00	4		
SHORT	8170	6	****	0	****	****	0	****	0	****	****	****	****	7.780	31	****	1.64	27		
STILLWELL 1 NE	8506	6	78.6	31	-1.3	93.	26	63.	19	.0	.0	422.5	-39.5	9.131	31	6.08	2.47	31		
TAHLEQUAH	8677	6	79.1	31	-1.4	95.	2	64.	17	.0	.0	438.5	-42.5	6.730	31	3.75	2.11	31		
WEBBERS FALLS	9445	6	79.5	31	-2.2	94.	27	64.	18	.0	.0	450.5	-67.5	7.040	31	4.56	2.49	17		
WESTVILLE	9523	6	****	0	****	****	0	****	0	****	****	****	****	8.742	31	****	2.22	31		
WETUMKA 3 NE	9571	6	****	0	****	****	0	****	0	****	****	****	****	5.480	31	2.56	3.25	27		

JULY 1992 SUMMARY FOR SOUTHWEST DIVISION (CD7)

NAME	ID	CD	DEV				MIN		HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY	
			MEAN TEMP	NUM OBS	FROM NORM	MAX TEMP	DAY	TEMP										DAY
ALTUS IRR STA	179	7	82.1	31	-2.4	103.	1	63.	17	.0	.0	530.0	-75.0	1.710	31	-.05	.70	16
ALTUS DAM	184	7	80.6	31	-3.6	101.	2	65.	18	.0	.0	483.0	-112.0	3.600	31	1.69	1.63	27
APACHE	260	7	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	6.870	31	4.84	3.27	14
ALTUS AFB	447	7	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	2.082	31	****	.87	16
CARNEGIE 2 ENE	1504	7	81.0	29	*****	98.	6	62.	18	.0	*****	463.0	*****	5.600	29	*****	2.55	27
CHATTANOOGA	1706	7	83.1	31	-1.2	100.	26	62.	17	.0	.0	560.0	-38.0	1.860	31	-.26	.69	17
DUNCAN 12 W	2668	7	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	2.501	31	*****	.97	26
FREDERICK	3353	7	80.6	31	-3.8	101.	2	63.	17	.0	.0	485.0	-116.0	1.520	31	-.56	.60	16
GRANDFIELD 4 NW	3709	7	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	1.500	31	-.48	.70	31
HOBART FAA APT	4204	7	81.7	31	-2.0	100.	1	61.	17	.0	.0	517.5	-62.5	4.212	31	2.13	2.10	14
HOLLIS	4247	7	82.4	28	*****	106.	26	60.	18	.0	*****	487.5	*****	1.710	28	*****	.97	27
HOLLISTER	4250	7	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	1.170	31	*****	.75	17
LAWTON	5063	7	81.4	31	-2.1	100.	3	63.	17	.0	.0	508.0	-66.0	1.411	31	-.49	.58	14
FORT SILL	5068	7	81.4	31	*****	100.	2	63.	17	.0	*****	507.0	*****	3.411	31	*****	1.11	26
LOOKEBA 2 ENE	5329	7	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	4.921	31	3.03	1.91	14
MANGUM RES STA	5509	7	80.3	31	-3.9	104.	1	61.	17	.0	.0	473.5	-121.5	2.700	31	.67	1.32	27
RANDLETT 9 E	7403	7	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	1.880	31	*****	.90	3
ROOSEVELT	7727	7	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	3.960	31	1.90	1.58	14
SEDAN	8016	7	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	5.960	31	*****	2.20	14
SNYDER	8299	7	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	1.952	31	-.11	.80	27
VINSON 3 WNW	9212	7	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	1.200	31	-.43	.54	27
WALTERS	9278	7	82.3	31	-1.8	106.	26	63.	17	.0	.0	537.5	-54.5	1.290	31	-1.07	.46	14
WICHITA MT WLR	9629	7	78.7	31	-3.5	95.	3	59.	19	.0	.0	425.0	-108.0	4.220	31	1.91	1.55	27
WILLOW	9668	7	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	2.641	31	*****	.97	14

JULY 1992 SUMMARY FOR SOUTH CENTRAL DIVISION (CD8)

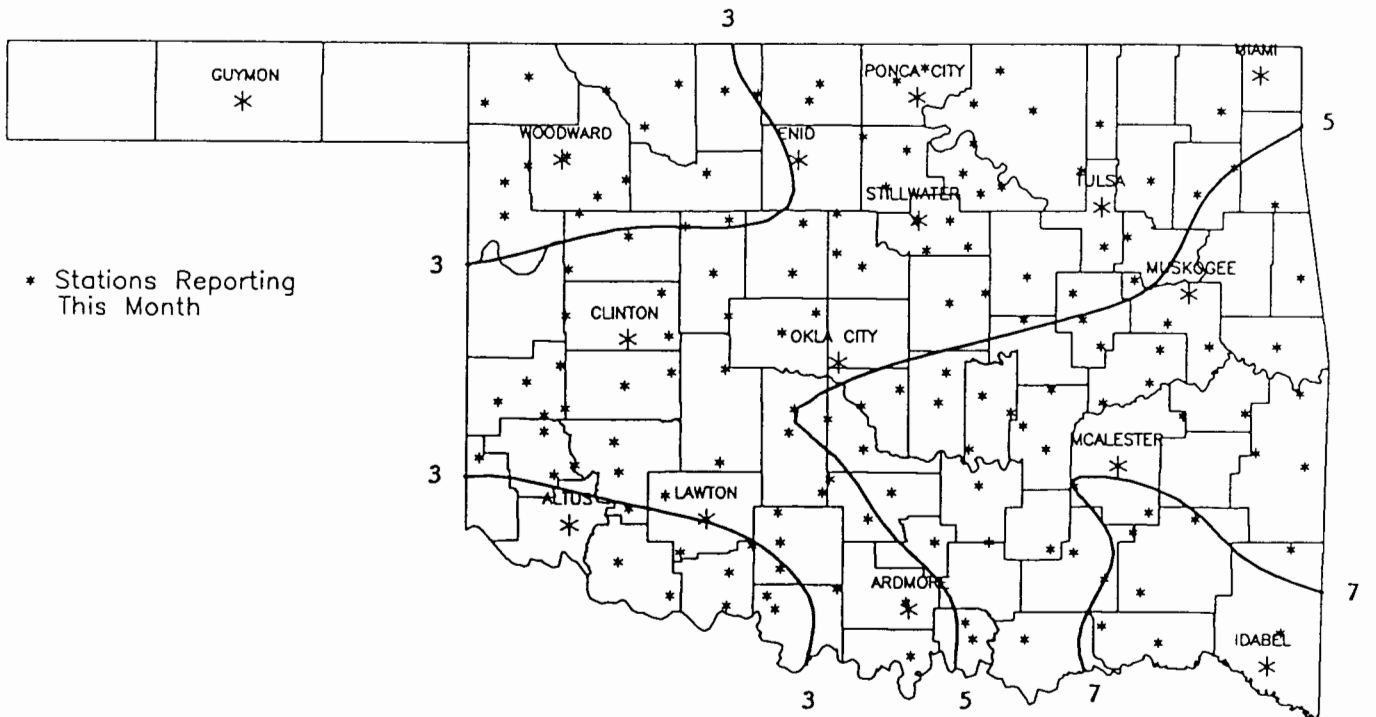
NAME	ID	CD	DEV				MIN		HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY	
			MEAN TEMP	NUM OBS	FROM NORM	MAX TEMP	DAY	TEMP										DAY
ADA	17	8	79.7	31	-2.5	93.	26	64.	18	.0	.0	455.0	-78.0	6.210	31	3.80	2.45	27
ALLEN	147	8	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	6.450	31	*****	3.05	17
ARDMORE	292	8	80.7	30	-3.3	94.	27	63.	1	.0	.0	472.0	-117.0	2.781	31	.65	1.12	16
ATOKA DAM	394	8	80.5	22	*****	96.	27	66.	31	.0	*****	341.0	*****	5.620	31	3.09	2.30	17
BOKCHITO	917	8	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	5.720	31	*****	2.01	10
CANEY	1437	8	81.0	31	*****	95.	1	64.	15	.0	*****	495.0	*****	8.040	31	*****	3.50	15
CENTRAHOMA	1648	8	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	8.650	31	*****	2.40	27
CHICKASAW NRA	1745	8	80.4	31	-1.7	96.	27	65.	29	.0	.0	476.0	-54.0	6.540	31	3.87	2.55	14
COLEMAN	2011	8	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	4.400	31	*****	1.25	17
COMANCHE	2054	8	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	3.061	31	1.11	1.09	3
DAISY 4 ENE	2354	8	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	6.260	31	2.83	2.72	17
DUNCAN	2660	8	80.3	31	-2.8	98.	3	63.	17	.0	.0	473.5	-87.5	3.140	31	.89	1.10	3
DURANT USDA	2678	8	80.1	31	-2.2	94.	27	63.	16	.0	.0	469.5	-66.5	8.710	31	6.42	3.74	17
ELMORE CITY	2872	8	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	6.350	31	*****	3.13	13
FARRIS 3 WNW	3083	8	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	8.240	31	5.61	2.91	16
GRADY	3688	8	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	3.000	31	*****	1.50	2
HEALDTON	4001	8	80.2	20	*****	94.	15	64.	17	.0	*****	304.5	*****	1.780	20	*****	1.21	17
HENNEPIN	4052	8	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	3.920	31	*****	1.68	14
KETCHUM RANCH	4780	8	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	3.240	31	*****	1.55	14
KINGSTON	4865	8	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	3.710	31	1.60	1.34	31
LEHIGH	5108	8	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	5.252	31	*****	1.50	17
LINDSAY 2 W	5216	8	80.8	30	-1.9	97.	3	62.	17	.0	.0	474.5	-74.5	2.701	31	.64	1.54	14
LOCO 6 SE	5247	8	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	1.520	31	*****	.60	17
MADILL	5468	8	80.9	31	-2.4	95.	26	65.	15	.0	.0	492.0	-75.0	3.630	31	1.44	1.37	16
MARIETTA	5563	8	81.4	31	-1.8	96.	26	67.	31	.0	.0	509.0	-55.0	4.900	31	2.79	1.22	31
MARLOW 1 WSW	5581	8	81.2	31	-1.1	98.	26	59.	17	.0	.0	501.0	-35.0	5.420	31	3.10	2.15	14
MCGEE CREEK DAM	5713	8	79.2	31	*****	95.	27	63.	15	.0	*****	439.0	*****	7.200	31	*****	2.50	17
PAULS VALLEY	6926	8	80.6	31	-2.7	94.	26	62.	17	.0	.0	484.5	-82.5	6.851	31	4.59	2.50	14
POTOTOC	7214	8	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	7.660	31	5.12	2.82	16
TISHOMINGO NWLR	8884	8	75.1	22	*****	95.	19	55.	4	.5	*****	223.0	*****	8.050	23	*****	2.05	25
TUSSY	9032	8	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	2.740	31	*****	1.24	14
WAURIKA	9395	8	82.2	31	-2.1	98.	26	63.	17	.0	.0	533.5	-64.5	3.410	31	1.60	2.50	3
WAURIKA DAM	9399	8	81.3	27	*****	99.	15	66.	3	.0	*****	440.0	*****	3.090	31	*****	1.81	3

JULY 1992 SUMMARY FOR SOUTHEAST DIVISION (CD9)

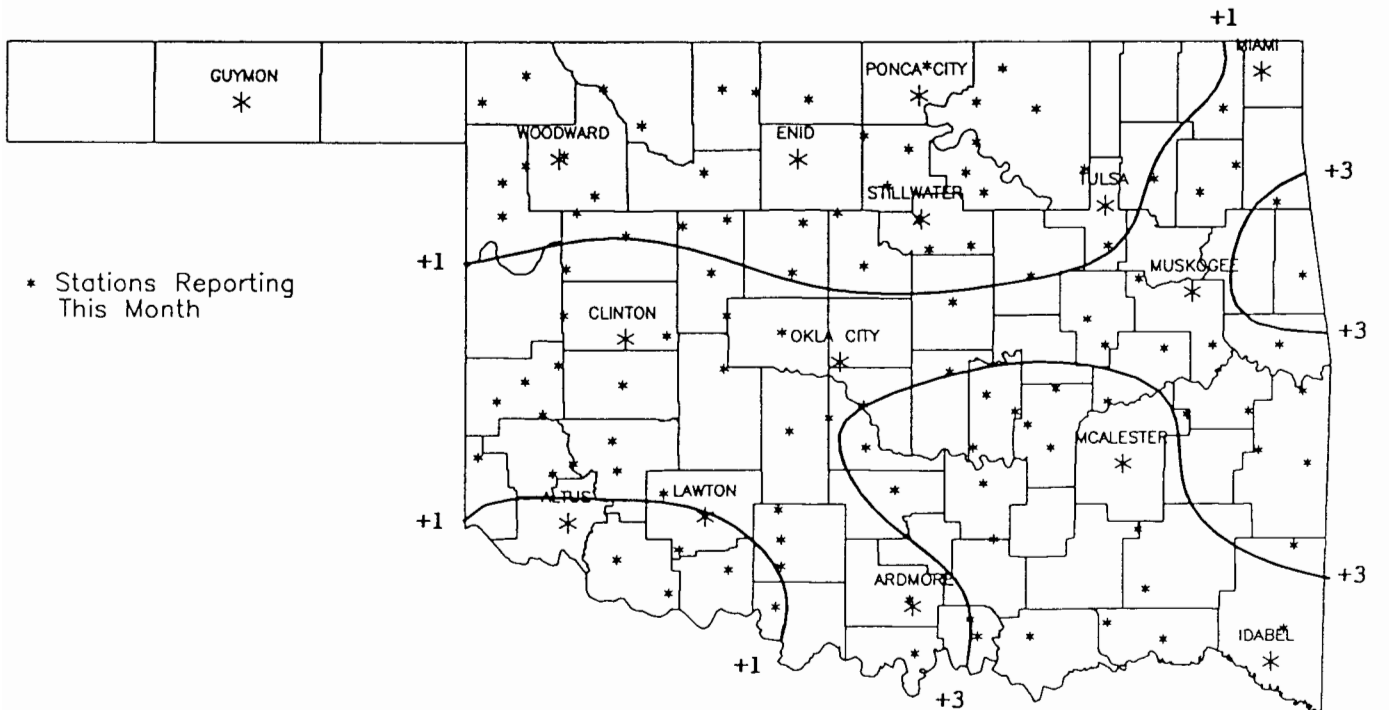
NAME	ID	CD	DEV			MIN			HEAT	DEV	COOL	DEV	TOT	NUM	DEV	MAX	DAY	
			TEMP	NUM	FROM	MAX	TEMP	DAY	TEMP	DAY	DEG	FROM	DEG	FROM	PPT	OBS		FROM
ANTLERS	256	9	79.8	31	-1.5	94.	26	66.	31	.0	.0	459.5	-45.5	7.510	31	4.24	2.25	3
BATTIEST 1 SSW	567	9	76.4	31	*****	90.	26	63.	18	.0	*****	352.0	*****	6.120	30	*****	1.90	17
BEAR MT TWR	584	9	78.7	16	*****	96.	15	61.	13	.0	*****	218.5	*****	7.132	19	*****	2.72	17
BENGAL	670	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	8.760	31	*****	3.32	27
BOSWELL 4 NNW	980	9	80.0	31	-1.9	95.	26	63.	15	.0	.0	465.5	-58.5	8.254	31	5.73	2.66	17
BROKEN BOW 1 N	1162	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	8.640	31	5.11	3.92	31
BROKEN BOW DAM	1168	9	79.6	31	-.9	95.	26	64.	31	.0	.0	452.0	-29.0	12.050	31	8.15	4.03	30
CARNASAW TWR	1499	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	10.230	31	6.22	3.43	17
CARTER TWR	1544	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.440	31	3.45	3.09	17
FANSHAWE	3065	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.750	31	1.14	2.42	27
FLAGPOLE TWR	3169	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.610	31	*****	2.65	27
HEAVENER 1 SE	4008	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.180	31	2.74	2.46	27
HEE MT TWR	4017	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.210	31	3.39	2.38	29
HUGO	4384	9	79.9	31	-2.4	93.	26	61.	14	.0	.0	463.0	-73.0	7.393	31	4.60	2.91	17
IDABEL	4451	9	79.9	31	-1.0	94.	26	65.	31	.0	.0	463.0	-30.0	7.302	31	3.96	2.22	17
POTEAU W W	7254	9	79.4	31	*****	95.	26	60.	31	.0	*****	446.5	*****	6.050	31	*****	1.90	26
SMITHVILLE 1 W	8285	9	76.9	31	-2.3	90.	26	62.	18	.0	.0	369.0	-71.0	5.556	31	1.25	1.75	17
SPIRO	8416	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.740	31	1.50	1.75	17
TUSKAHOMA	9023	9	79.6	31	-2.1	93.	26	62.	18	.0	.0	454.0	-64.0	8.641	31	4.93	4.20	27
VALLIANT 3 W	9118	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.763	31	4.30	1.96	17
WILBURTON 9 ENE9634	9	9	79.9	31	-1.3	95.	26	61.	18	.0	.0	463.0	-39.0	8.190	31	4.43	4.00	26

JULY 1992 CLIMATE DIVISION SUMMARY

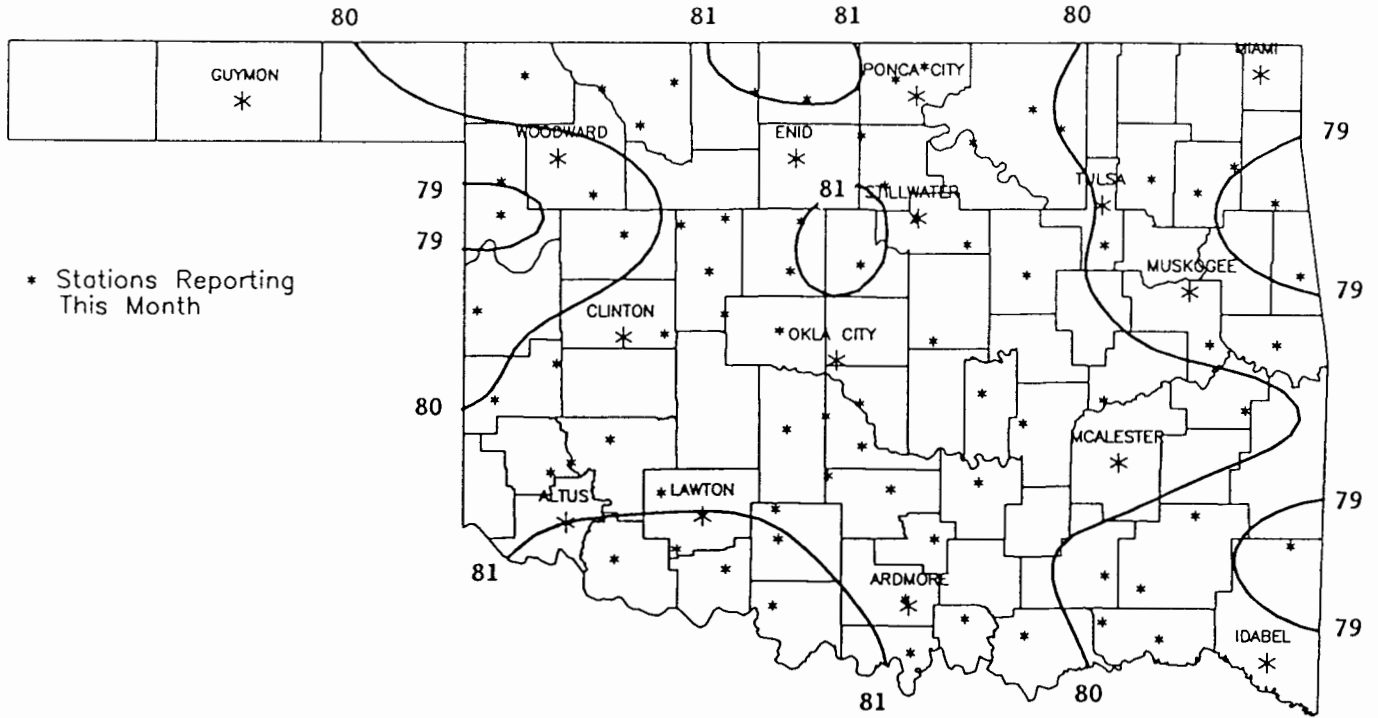
CLIMATE	DIV	MEAN	NUM	DEV			MIN			HEAT	DEV	COOL	DEV	TOT	NUM	DEV	MAX	DAY
				TEMP	STA	FROM	MAX	TEMP	DAY	TEMP	DAY	DEGREE	FROM	DAYS	DEGREE	FROM	PPT	
1	77.8	11	-2.5	109.0	8	52.0	3	.1	.1	395.5	-76.1	2.61	12	.12	2.04	14		
2	80.7	15	-2.0	105.0	2	53.0	3	.0	.0	484.5	-64.3	2.83	22	.01	2.26	16		
3	79.7	16	-1.7	97.0	10	59.0	19	.0	.0	455.5	-53.3	4.36	29	1.43	2.51	11		
4	80.2	10	-2.1	103.0	1	58.0	31	.0	.0	468.5	-68.8	4.32	21	2.33	3.60	27		
5	80.8	15	-1.5	100.0	7	57.0	31	.0	.0	487.4	-51.0	4.43	34	1.91	4.44	27		
6	80.0	9	-1.6	97.0	26	61.0	17	.0	.0	465.7	-50.4	6.37	28	3.42	4.04	27		
7	81.2	10	-2.6	106.0	26	59.0	19	.0	.0	502.6	-80.6	2.84	22	.85	3.27	14		
8	80.6	13	-2.3	99.0	15	55.0	4	.0	.0	482.7	-73.4	5.11	31	2.77	3.74	17		
9	79.2	10	-2.0	96.0	15	60.0	31	.0	.0	438.8	-62.0	7.49	19	3.93	4.20	27		



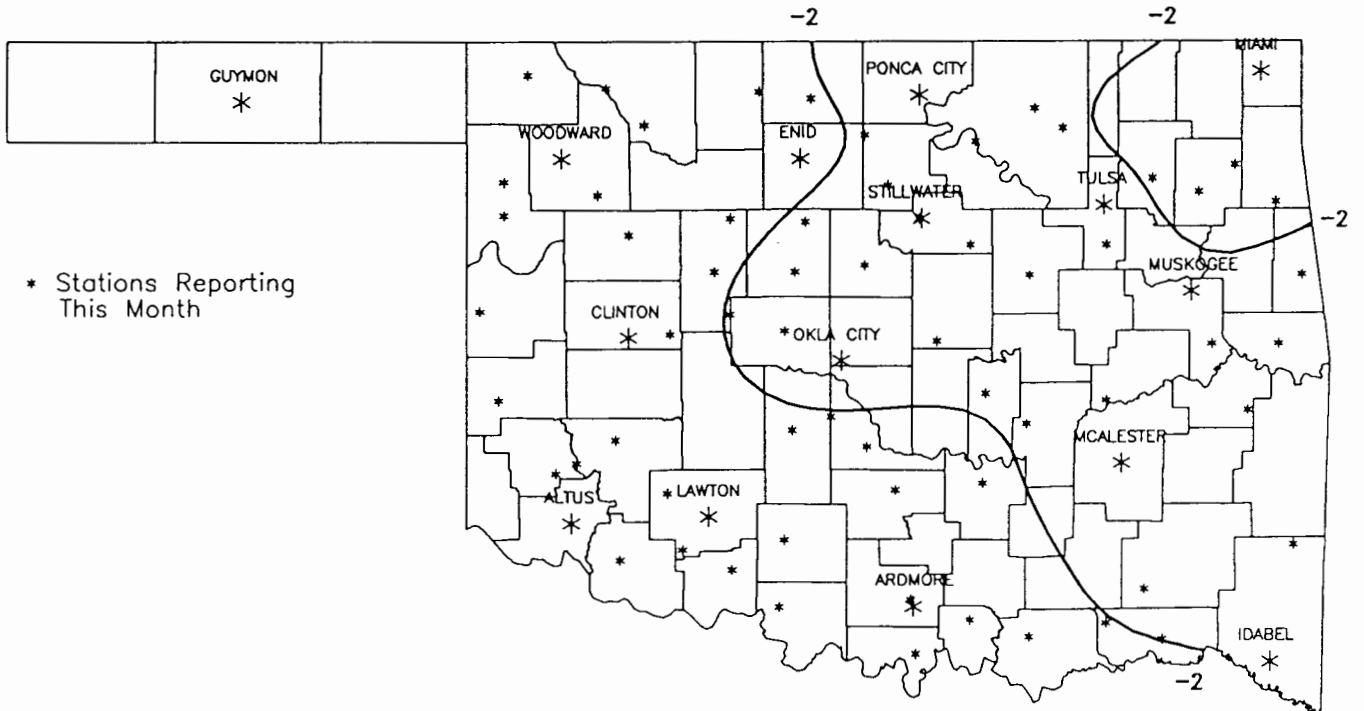
**JULY 1992 TOTAL PRECIPITATION
(Inches)**



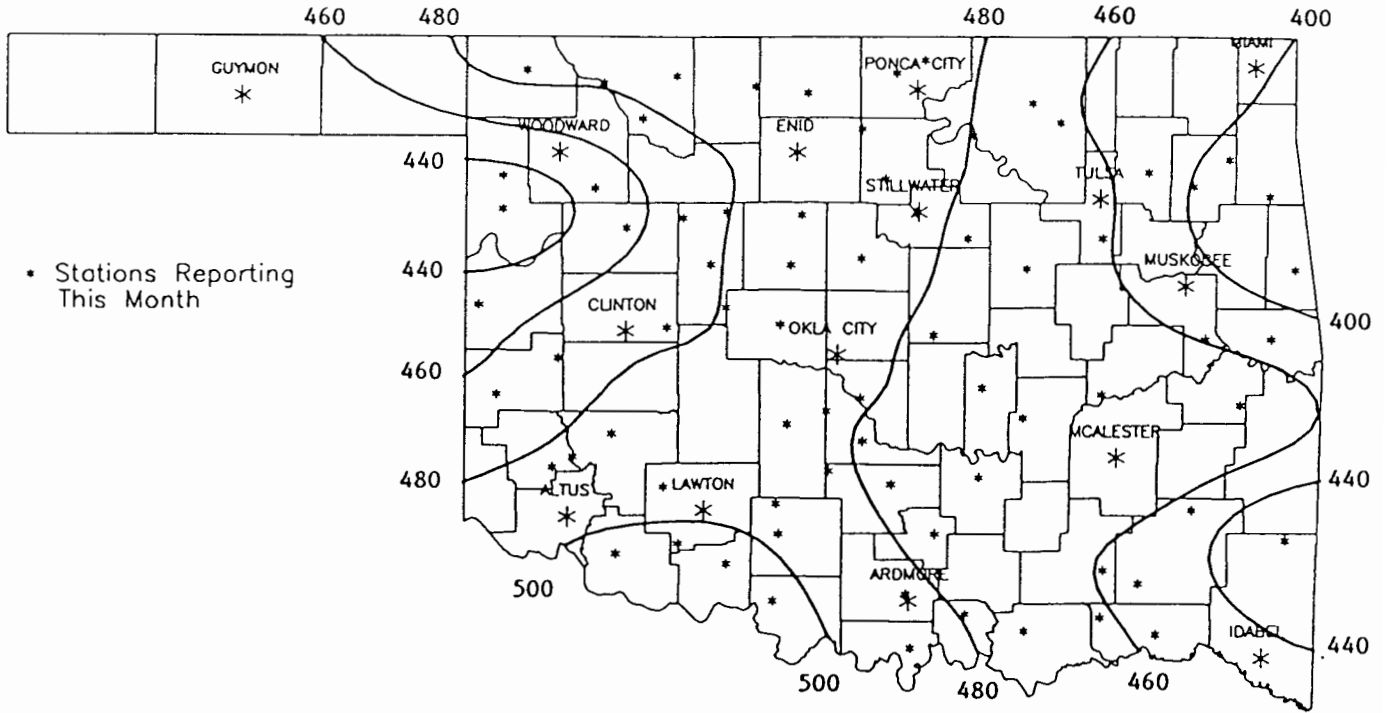
**JULY 1992 DEVIATION FROM NORMAL PRECIPITATION
(Inches)**



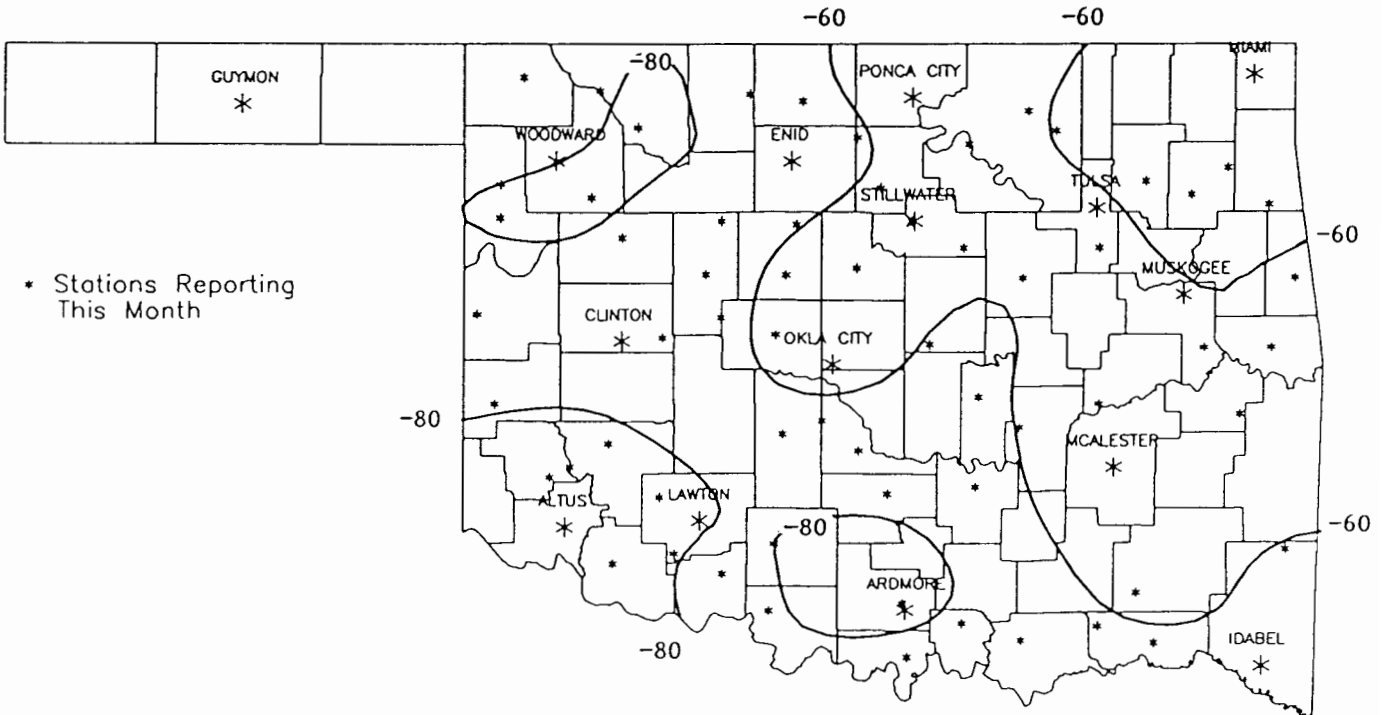
**JULY 1992 AVERAGE MONTHLY TEMPERATURES
(Degrees F)**



**JULY 1992 DEVIATION FROM NORMAL TEMPERATURES
(Degrees F)**

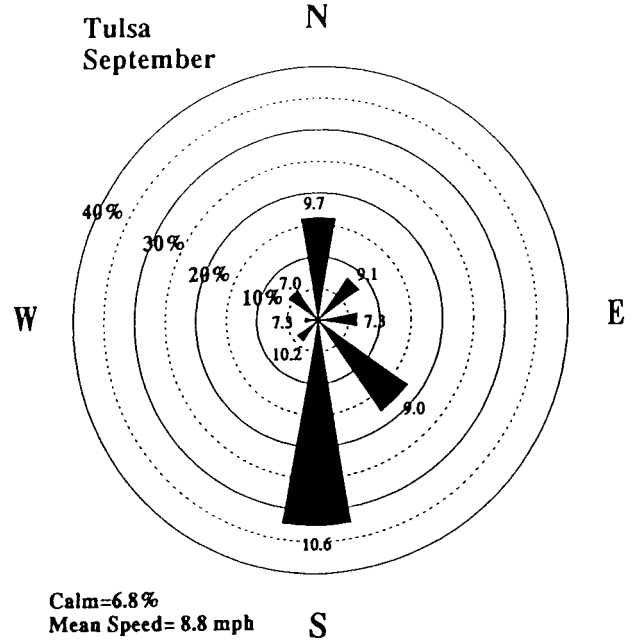
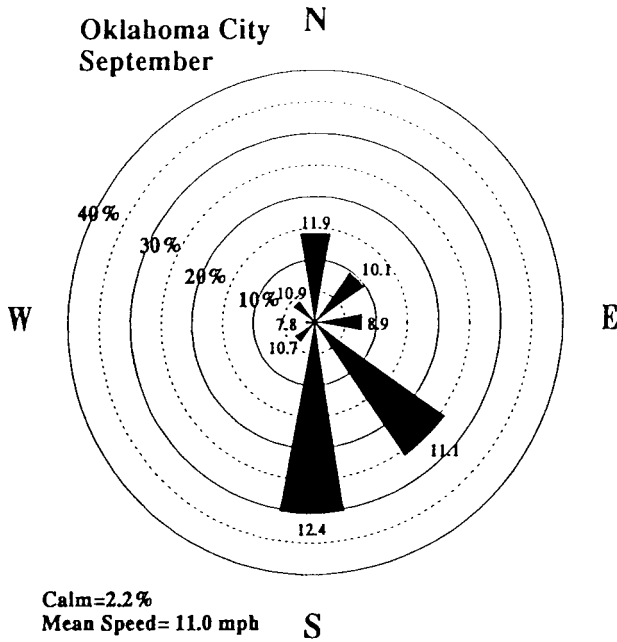


JULY 1992 COOLING DEGREE DAYS



JULY 1992 DEVIATION FROM NORMAL COOLING DEGREE DAYS

September wind roses for Oklahoma City and Tulsa. Percents represent the percentage of winds coming from a direction. The numbers at the end of the bars indicate the average speed (miles per hour) of winds from that direction.



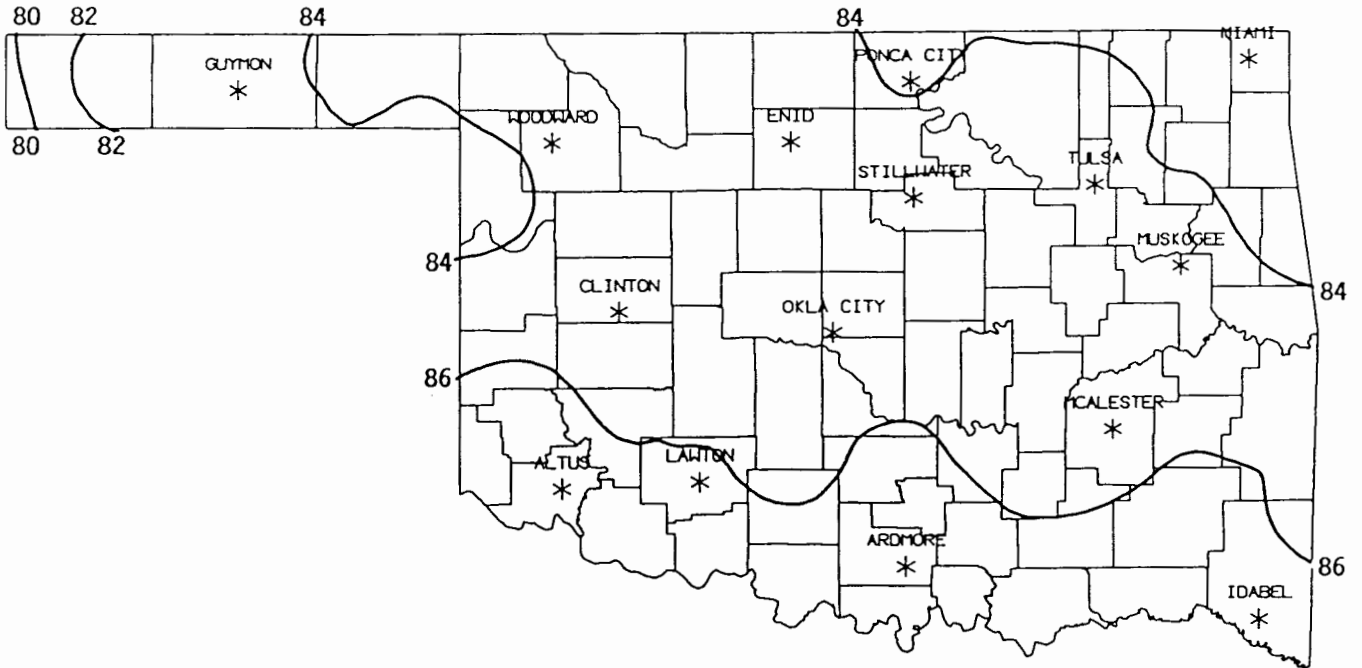
SEPTEMBER 1992 SUNRISE AND SUNSET

Oklahoma City

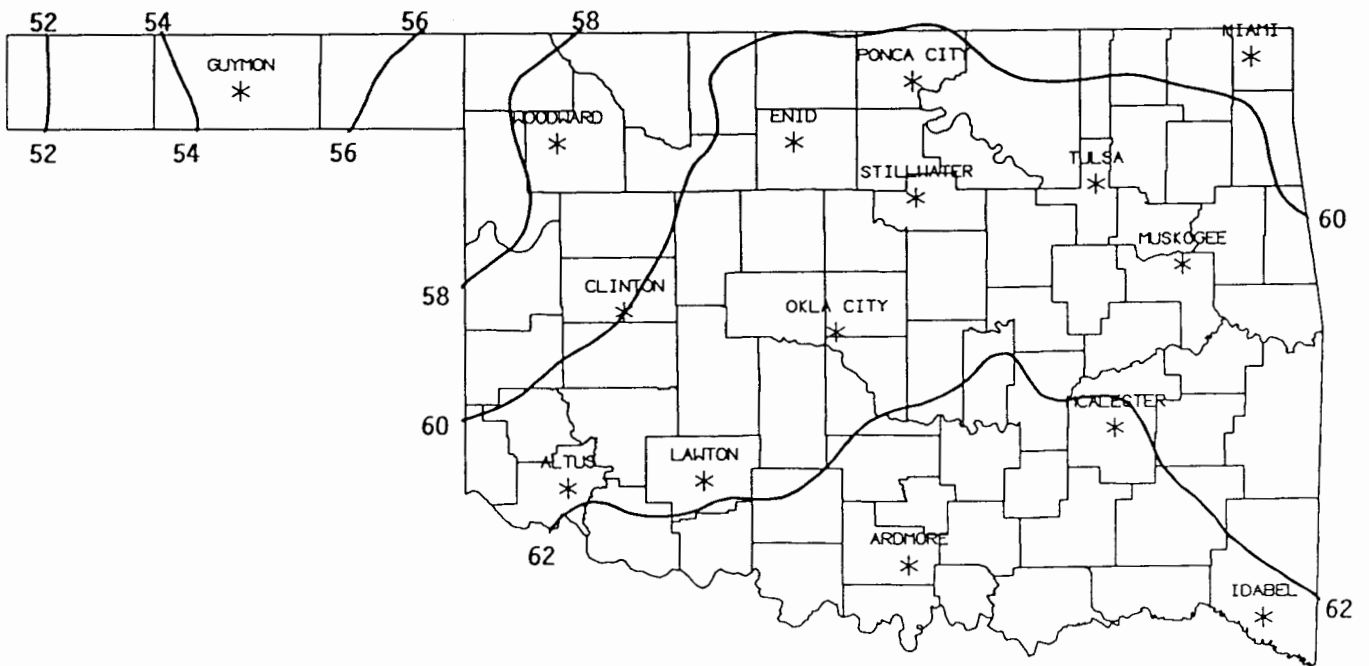
Tulsa

DATE	SUNRISE	SUNSET	CDT	DAYLIGHT
92 9 1	7: 2AM	7:58PM	CDT	12 hrs 56 mins
92 9 2	7: 3AM	7:56PM	CDT	12 hrs 53 mins
92 9 3	7: 4AM	7:55PM	CDT	12 hrs 51 mins
92 9 4	7: 4AM	7:54PM	CDT	12 hrs 49 mins
92 9 5	7: 5AM	7:52PM	CDT	12 hrs 47 mins
92 9 6	7: 6AM	7:51PM	CDT	12 hrs 45 mins
92 9 7	7: 7AM	7:49PM	CDT	12 hrs 43 mins
92 9 8	7: 7AM	7:48PM	CDT	12 hrs 41 mins
92 9 9	7: 8AM	7:46PM	CDT	12 hrs 38 mins
92 910	7: 9AM	7:45PM	CDT	12 hrs 36 mins
92 911	7: 9AM	7:44PM	CDT	12 hrs 34 mins
92 912	7:10AM	7:42PM	CDT	12 hrs 32 mins
92 913	7:11AM	7:41PM	CDT	12 hrs 30 mins
92 914	7:12AM	7:39PM	CDT	12 hrs 28 mins
92 915	7:12AM	7:38PM	CDT	12 hrs 25 mins
92 916	7:13AM	7:36PM	CDT	12 hrs 23 mins
92 917	7:14AM	7:35PM	CDT	12 hrs 21 mins
92 918	7:15AM	7:33PM	CDT	12 hrs 19 mins
92 919	7:15AM	7:32PM	CDT	12 hrs 16 mins
92 920	7:16AM	7:30PM	CDT	12 hrs 14 mins
92 921	7:17AM	7:29PM	CDT	12 hrs 12 mins
92 922	7:18AM	7:27PM	CDT	12 hrs 10 mins
92 923	7:18AM	7:26PM	CDT	12 hrs 8 mins
92 924	7:19AM	7:24PM	CDT	12 hrs 5 mins
92 925	7:20AM	7:23PM	CDT	12 hrs 3 mins
92 926	7:21AM	7:21PM	CDT	12 hrs 1 mins
92 927	7:21AM	7:20PM	CDT	11 hrs 59 mins
92 928	7:22AM	7:19PM	CDT	11 hrs 57 mins
92 929	7:23AM	7:17PM	CDT	11 hrs 54 mins
92 930	7:24AM	7:16PM	CDT	11 hrs 52 mins

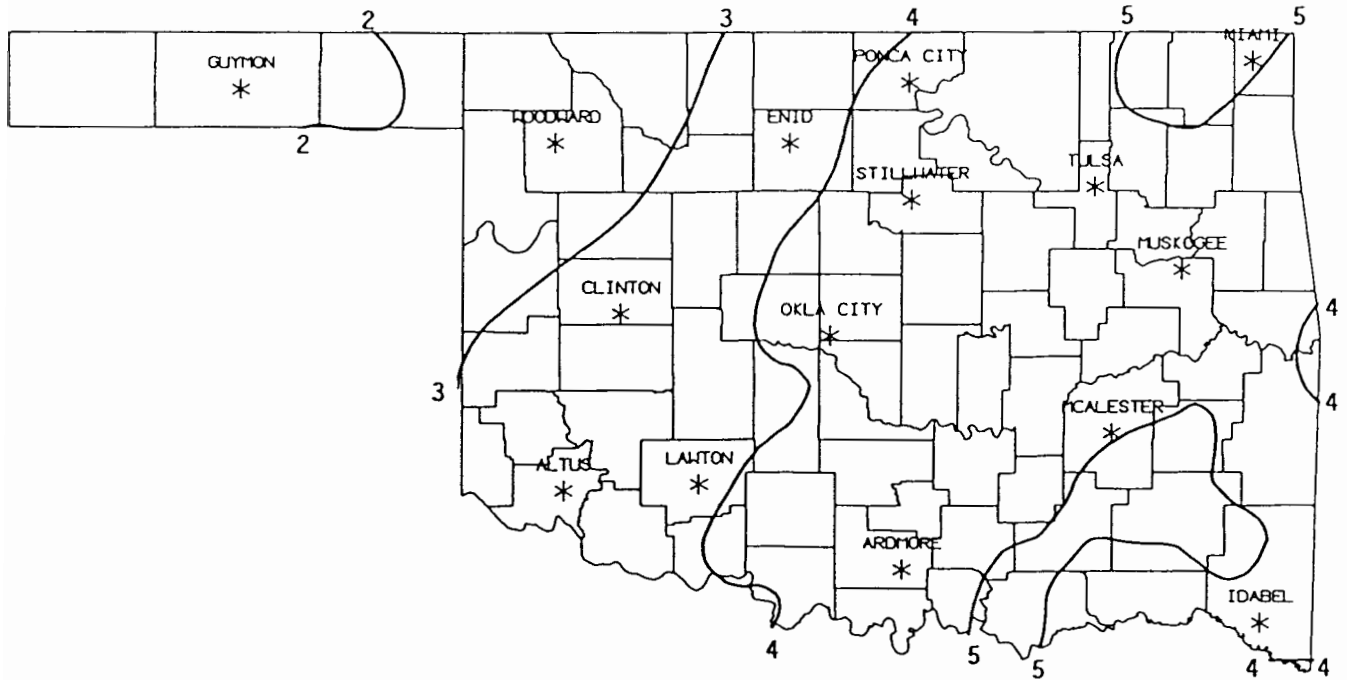
DATE	SUNRISE	SUNSET	CDT	DAYLIGHT
92 9 1	6:55AM	7:52PM	CDT	12 hrs 57 mins
92 9 2	6:56AM	7:50PM	CDT	12 hrs 55 mins
92 9 3	6:56AM	7:49PM	CDT	12 hrs 53 mins
92 9 4	6:57AM	7:48PM	CDT	12 hrs 50 mins
92 9 5	6:58AM	7:46PM	CDT	12 hrs 48 mins
92 9 6	6:59AM	7:45PM	CDT	12 hrs 46 mins
92 9 7	6:59AM	7:43PM	CDT	12 hrs 44 mins
92 9 8	7: 0AM	7:42PM	CDT	12 hrs 42 mins
92 9 9	7: 1AM	7:40PM	CDT	12 hrs 39 mins
92 910	7: 2AM	7:39PM	CDT	12 hrs 37 mins
92 911	7: 2AM	7:37PM	CDT	12 hrs 35 mins
92 912	7: 3AM	7:36PM	CDT	12 hrs 33 mins
92 913	7: 4AM	7:34PM	CDT	12 hrs 30 mins
92 914	7: 5AM	7:33PM	CDT	12 hrs 28 mins
92 915	7: 5AM	7:31PM	CDT	12 hrs 26 mins
92 916	7: 6AM	7:30PM	CDT	12 hrs 24 mins
92 917	7: 7AM	7:28PM	CDT	12 hrs 21 mins
92 918	7: 8AM	7:27PM	CDT	12 hrs 19 mins
92 919	7: 8AM	7:25PM	CDT	12 hrs 17 mins
92 920	7: 9AM	7:24PM	CDT	12 hrs 15 mins
92 921	7:10AM	7:22PM	CDT	12 hrs 12 mins
92 922	7:11AM	7:21PM	CDT	12 hrs 10 mins
92 923	7:11AM	7:19PM	CDT	12 hrs 8 mins
92 924	7:12AM	7:18PM	CDT	12 hrs 5 mins
92 925	7:13AM	7:16PM	CDT	12 hrs 3 mins
92 926	7:14AM	7:15PM	CDT	12 hrs 1 mins
92 927	7:15AM	7:13PM	CDT	11 hrs 59 mins
92 928	7:15AM	7:12PM	CDT	11 hrs 56 mins
92 929	7:16AM	7:10PM	CDT	11 hrs 54 mins
92 930	7:17AM	7: 9PM	CDT	11 hrs 52 mins



SEPTEMBER 30-YEAR MEAN DAILY MAXIMUM TEMPERATURE



SEPTEMBER 30-YEAR MEAN DAILY MINIMUM TEMPERATURE



SEPTEMBER 30-YEAR MEAN MONTHLY PRECIPITATION

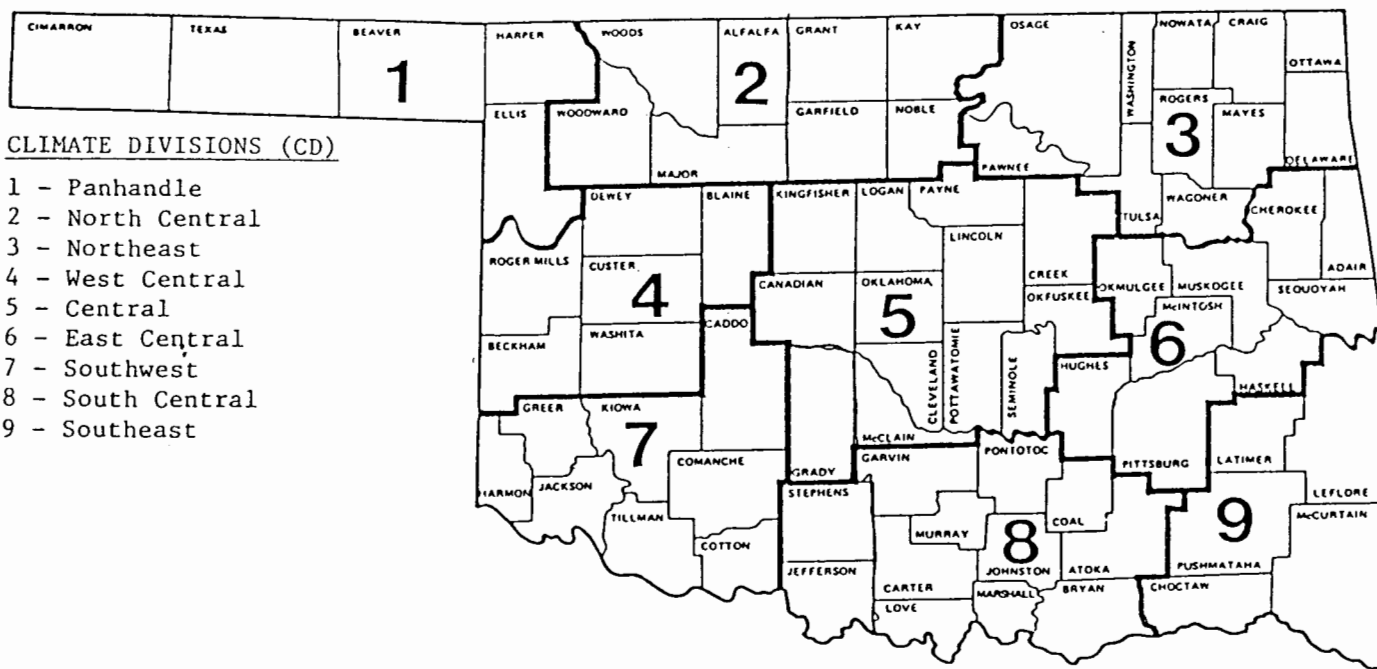
90-DAY NATIONAL WEATHER SERVICE OUTLOOK

(August - October 1992)

Precipitation - Above Normal Statewide

Temperature - Below Normal Statewide

O K L A H O M A



CLIMATE DIVISIONS (CD)

- 1 - Panhandle
- 2 - North Central
- 3 - Northeast
- 4 - West Central
- 5 - Central
- 6 - East Central
- 7 - Southwest
- 8 - South Central
- 9 - Southeast

EXPLANATION OF TABLES

Two kinds of tables appear in this summary. The first is a set of tables containing all reporting stations grouped by climate division. The figure above shows the locations of the climate divisions. Each table contains the following information for each station:

- Station Name:
- Station Identification Number: These are usually assigned by the National Climatic Data Center.
- Climate Division: See the figure above.
- Number of Temperature Observations: These are the actual number of temperature reports recorded at the station during the current month. Missing observations may result in artificially high or low mean monthly temperatures.
- Deviation from Normal: The deviation of the observed mean monthly temperature from the monthly station normal. A positive value indicates the month was warmer than normal. A negative value indicates the month was cooler than normal. Normal monthly temperatures may be calculated by subtracting the deviation from the observed temperature.
- Maximum Daily Maximum: The maximum daily maximum temperature observed during the current month and year and the day which it occurred.
- Minimum Daily Minimum: The minimum daily minimum temperature observed during the current month and year and the day which it occurred.
- Heating Degree Days: HDD are calculated each day of the month for which there is a temperature report and summed. They are a qualitative measure of how much heat was required to maintain a comfortable indoor temperature. Missing observations may result in an artificially high or low value. For February 1984 HDD would be calculated as:

$$29 \sum_{i=1} 65 - ((TMAX_i + TMIN_i) / 2)$$

Deviation from Normal Heating Degree Days: A positive value indicates higher than normal heating requirements for the month as a whole. A negative value indicates lower than normal heating requirements for the month as a whole. Normal HDD may be calculated by subtracting the deviation from observed HDD.

Cooling Degree Days: CDD are calculated each day of the month for which there is a temperature report and summed. They are a proxy measure of how much cooling was required to maintain a comfortable indoor temperature. Missing observations may result in an artificially high or low value. For June, CDD would be calculated as:

$$\sum_{i=1}^{30} ((TMAX_i + TMIN_i)/2) - 65$$

Deviation from Normal Cooling Degree Days: A positive value indicates higher than normal cooling requirements for the month as a whole. A negative value indicates lower than normal cooling requirements for the month as a whole. Normal cooling degree days may be found by subtracting the deviation from the observed cooling degree days.

Total Precipitation: Often incorrectly referred to as mean precipitation, this value is the sum of all precipitation reported during the month at a station. If snow occurred, it is to be melted and its water equivalent recorded.

Number of Precipitation Observations: The number of days a rain or no-rain observation was reported. Missing observations frequently result in artificially low total precipitation values.

Deviation from Normal Precipitation: A positive value indicates more rain than normal was received. A negative value indicates less than was expected rainfall was received. Normal rainfall may be calculated by subtracting the deviation from monthly total.

Maximum 24-Hour Report and Day: The maximum amount of precipitation recorded during the station's 24-hour observation period for the current month and year and the day on which it was recorded.

The second set of tables contain similar information but are the average or extreme over all the stations reporting in each climate division.

The data on this calendar are for Oklahoma City. Normal values are calculated for the period 1961-1990. Extremes are found for the period of record (1891-present).

OKLAHOMA CITY CLIMATE CALENDAR

September 1992

Normal	Actual	Normal	Actual	Normal	Actual	Normal	Actual	Normal	Actual	Normal	Actual	Normal	Actual																																														
Normal 1	Actual 90.0 max 66.0 min .15 ppt 0 hdd 13 cdd Highest Max 105-1951 Lowest Max 69-1932 Lowest Min 53-1956 Highest Min 80-1951 Greatest ppt 2.53-1974	Normal 2	Actual 89.0 max 66.0 min .12 ppt 0 hdd 13 cdd Highest Max 105-1951 Lowest Max 68-1957 Lowest Min 52-1974 Highest Min 78-1961 Greatest ppt 4.08-1991	Normal 3	Actual 90.0 max 66.0 min .25 ppt 0 hdd 13 cdd Highest Max 105-1947 Lowest Max 71-1974 Lowest Min 47-1974 Highest Min 80-1939 Greatest ppt 3.16-1926	Normal 4	Actual 89.0 max 66.0 min .07 ppt 0 hdd 13 cdd Highest Max 106-1947 Lowest Max 66-1961 Lowest Min 46-1974 Highest Min 79-1970 Greatest ppt 1.74-1940	Normal 5	Actual 89.0 max 66.0 min .05 ppt 0 hdd 12 cdd Highest Max 103-1931 Lowest Max 64-1962 Lowest Min 47-1974 Highest Min 77-1939 Greatest ppt .85-1991	Normal 6	Actual 89.0 max 66.0 min .03 ppt 0 hdd 13 cdd Highest Max 106-1947 Lowest Max 71-1918 Lowest Min 51-1974 Highest Min 76-1970 Greatest ppt 2.20-1895	Normal 7	Actual 88.0 max 66.0 min .07 ppt 0 hdd 12 cdd Highest Max 102-1936 Lowest Max 66-1962 Lowest Min 49-1998 Highest Min 77-1936 Greatest ppt 1.37-1905	Normal 8	Actual 88.0 max 65.0 min .03 ppt 0 hdd 12 cdd Highest Max 101-1922 Lowest Max 75-1957 Lowest Min 48-1957 Highest Min 80-1896 Greatest ppt 2.66-1941	Normal 9	Actual 88.0 max 65.0 min .06 ppt 0 hdd 11 cdd Highest Max 99-1970 Lowest Max 67-1929 Lowest Min 51-1962 Highest Min 77-1896 Greatest ppt 1.88-1891	Normal 10	Actual 86.0 max 64.0 min .09 ppt 0 hdd 10 cdd Highest Max 101-1936 Lowest Max 64-1929 Lowest Min 47-1962 Highest Min 77-1938 Greatest ppt 2.40-1925	Normal 11	Actual 87.0 max 63.0 min .04 ppt 0 hdd 10 cdd Highest Max 100-1909 Lowest Max 60-1898 Lowest Min 48-1940 Highest Min 77-1936 Greatest ppt 2.36-1906	Normal 12	Actual 85.0 max 63.0 min .22 ppt 0 hdd 10 cdd Highest Max 102-1930 Lowest Max 64-1969 Lowest Min 45-1898 Highest Min 78-1930 Greatest ppt 3.03-1961	Normal 13	Actual 84.0 max 62.0 min .18 ppt 1 hdd 9 cdd Highest Max 102-1965 Lowest Max 53-1989 Lowest Min 45-1902 Highest Min 78-1978 Greatest ppt 1.88-1985	Normal 14	Actual 83.0 max 62.0 min .20 ppt 1 hdd 9 cdd Highest Max 102-1965 Lowest Max 58-1975 Lowest Min 47-1961 Highest Min 77-1965 Greatest ppt 3.61-1957	Normal 15	Actual 83.0 max 62.0 min .12 ppt 1 hdd 9 cdd Highest Max 100-1965 Lowest Max 57-1903 Lowest Min 46-1916 Highest Min 76-1956 Greatest ppt 2.35-1925	Normal 16	Actual 84.0 max 62.0 min .12 ppt 1 hdd 8 cdd Highest Max 101-1978 Lowest Max 58-1903 Lowest Min 44-1903 Highest Min 76-1965 Greatest ppt 1.97-1991	Normal 17	Actual 82.0 max 62.0 min .14 ppt 1 hdd 8 cdd Highest Max 99-1972 Lowest Max 58-1973 Lowest Min 44-1903 Highest Min 78-1978 Greatest ppt 1.42-1936	Normal 18	Actual 85.0 max 62.0 min .09 ppt 1 hdd 9 cdd Highest Max 99-1952 Lowest Max 53-1971 Lowest Min 42-1981 Highest Min 78-1978 Greatest ppt 3.10-1923	Normal 19	Actual 84.0 max 63.0 min .07 ppt 0 hdd 9 cdd Highest Max 98-1954 Lowest Max 56-1971 Lowest Min 44-1971 Highest Min 76-1978 Greatest ppt 1.91-1942	Normal 20	Actual 84.0 max 61.0 min .17 ppt 1 hdd 8 cdd Highest Max 100-1954 Lowest Max 52-1896 Lowest Min 41-1971 Highest Min 76-1954 Greatest ppt 3.82-1990	Normal 21	Actual 82.0 max 61.0 min .14 ppt 1 hdd 7 cdd Highest Max 97-1980 Lowest Max 61-1934 Lowest Min 39-1983 Highest Min 76-1931 Greatest ppt 2.04-1990	Normal 22	Actual 82.0 max 60.0 min .27 ppt 1 hdd 7 cdd Highest Max 96-1956 Lowest Max 62-1915 Lowest Min 45-1975 Highest Min 76-1931 Greatest ppt 7.53-1970	Normal 23	Actual 81.0 max 59.0 min .06 ppt 1 hdd 6 cdd Highest Max 97-1931 Lowest Max 58-1925 Lowest Min 40-1895 Highest Min 75-1931 Greatest ppt 1.47-1988	Normal 24	Actual 80.0 max 58.0 min .17 ppt 2 hdd 6 cdd Highest Max 98-1939 Lowest Max 56-1974 Lowest Min 36-1989 Highest Min 74-1958 Greatest ppt 3.87-1959	Normal 25	Actual 81.0 max 59.0 min .06 ppt 1 hdd 6 cdd Highest Max 97-1939 Lowest Max 53-1926 Lowest Min 41-1989 Highest Min 74-1933 Greatest ppt 1.41-1893	Normal 26	Actual 80.0 max 58.0 min .15 ppt 1 hdd 5 cdd Highest Max 98-1977 Lowest Max 46-1926 Lowest Min 35-1912 Highest Min 72-1923 Greatest ppt 1.74-1973	Normal 27	Actual 81.0 max 59.0 min .11 ppt 2 hdd 6 cdd Highest Max 96-1953 Lowest Max 47-1927 Lowest Min 38-1942 Highest Min 72-1923 Greatest ppt 1.75-1936	Normal 28	Actual 80.0 max 58.0 min .05 ppt 2 hdd 6 cdd Highest Max 104-1953 Lowest Max 53-1984 Lowest Min 37-1896 Highest Min 73-1977 Greatest ppt 2.88-1945	Normal 29	Actual 80.0 max 57.0 min .10 ppt 2 hdd 5 cdd Highest Max 98-1953 Lowest Max 47-1945 Lowest Min 39-1916 Highest Min 71-1933 Greatest ppt 2.90-1986	Normal 30	Actual 79.0 max 55.0 min .09 ppt 2 hdd 5 cdd Highest Max 100-1977 Lowest Max 54-1885 Lowest Min 36-1895 Highest Min 72-1977 Greatest ppt 1.79-1986

SEPTEMBER AVERAGES

TEMPERATURE : 73.3°F
 PRECIPITATION : 3.47"
 HEATING DEGREE DAYS : 22
 COOLING DEGREE DAYS : 270

The data on this calendar are for Tulsa. Normal values are calculated for the period 1948-1991. Temperature extremes are for the period 1905-1992; precipitation extremes are for the period 1948-1991.

TULSA CLIMATE CALENDAR

September 1992

Normal	1	Actual	Normal	2	Actual	Normal	3	Actual	Normal	4	Actual	Normal	5	Actual	Normal	6	Actual	Normal	7	Actual
89.0	max		89.0	max		89.0	max		89.0	max		88.0	max		89.0	max		87.0	max	
67.0	min		67.0	min		67.0	min		67.0	min		67.0	min		67.0	min		67.0	min	
0.16	ppt		0.18	ppt		0.19	ppt		0.22	ppt		0.10	ppt		0.16	ppt		0.06	ppt	
0	hdd		0	hdd		0	hdd		0	hdd		0	hdd		0	hdd		0	hdd	
14	cdd		13	cdd		14	cdd		14	cdd		13	cdd		13	cdd		12	cdd	
	Highest Max	105-1985		Highest Max	109-1939		Highest Max	109-1939		Highest Max	107-1947		Highest Max	107-1913		Highest Max	107-1907		Highest Max	106-1936
	Lowest Max	77-1974		Lowest Max	66-1974		Lowest Max	70-1974		Lowest Max	66-1967		Lowest Max	70-1962		Lowest Max	69-1962		Lowest Max	65-1986
	Lowest Min	48-1967		Lowest Min	51-1974		Lowest Min	47-1934		Lowest Min	46-1974		Lowest Min	49-1974		Lowest Min	52-1974		Lowest Min	50-1918
	Highest Min	78-1982		Highest Min	78-1985		Highest Min	76-1963		Highest Min	78-1983		Highest Min	79-1985		Highest Min	80-1990		Highest Min	79-1985
	Greatest ppt	2.24-1974		Greatest ppt	2.06-1974		Greatest ppt	3.27-1962		Greatest ppt	2.80-1971		Greatest ppt	1.16-1977		Greatest ppt	4.05-1971		Greatest ppt	1.30-1962
Normal	8	Actual	Normal	9	Actual	Normal	10	Actual	Normal	11	Actual	Normal	12	Actual	Normal	13	Actual	Normal	14	Actual
88.0	max		88.0	max		87.0	max		87.0	max		86.0	max		84.0	max		84.0	max	
66.0	min		65.0	min		64.0	min		64.0	min		63.0	min		62.0	min		61.0	min	
0.07	ppt		0.13	ppt		0.03	ppt		0.14	ppt		0.15	ppt		0.16	ppt		0.07	ppt	
0	hdd		0	hdd		0	hdd		0	hdd		0	hdd		0	hdd		1	hdd	
12	cdd		12	cdd		10	cdd		10	cdd		10	cdd		9	cdd		10	cdd	
	Highest Max	103-1925		Highest Max	102-1909		Highest Max	105-1936		Highest Max	103-1909		Highest Max	102-1930		Highest Max	103-1965		Highest Max	103-1965
	Lowest Max	75-1949		Lowest Max	77-1962		Lowest Max	75-1989		Lowest Max	74-1957		Lowest Max	68-1989		Lowest Max	55-1989		Lowest Max	57-1989
	Lowest Min	50-1956		Lowest Min	51-1943		Lowest Min	48-1968		Lowest Min	45-1940		Lowest Min	48-1959		Lowest Min	48-1960		Lowest Min	46-1961
	Highest Min	78-1983		Highest Min	76-1981		Highest Min	75-1991		Highest Min	77-1983		Highest Min	77-1991		Highest Min	77-1978		Highest Min	77-1956
	Greatest ppt	1.45-1984		Greatest ppt	2.67-1951		Greatest ppt	74-1958		Greatest ppt	1.98-1977		Greatest ppt	1.75-1988		Greatest ppt	2.03-1961		Greatest ppt	2.15-1967
Normal	15	Actual	Normal	16	Actual	Normal	17	Actual	Normal	18	Actual	Normal	19	Actual	Normal	20	Actual	Normal	21	Actual
83.0	max		84.0	max		83.0	max		85.0	max		85.0	max		85.0	max		82.0	max	
62.0	min		63.0	min		63.0	min		62.0	min		64.0	min		62.0	min		61.0	min	
0.25	ppt		0.25	ppt		0.09	ppt		0.11	ppt		0.20	ppt		0.07	ppt		0.07	ppt	
1	hdd		1	hdd		1	hdd		1	hdd		1	hdd		0	hdd		1	hdd	
8	cdd		9	cdd		9	cdd		9	cdd		10	cdd		9	cdd		8	cdd	
	Highest Max	103-1956		Highest Max	103-1956		Highest Max	104-1931		Highest Max	100-1952		Highest Max	100-1954		Highest Max	102-1954		Highest Max	98-1980
	Lowest Max	60-1949		Lowest Max	67-1966		Lowest Max	61-1971		Lowest Max	56-1971		Lowest Max	58-1971		Lowest Max	65-1991		Lowest Max	62-1975
	Lowest Min	46-1961		Lowest Min	45-1934		Lowest Min	44-1981		Lowest Min	42-1981		Lowest Min	45-1991		Lowest Min	39-1938		Lowest Min	38-1918
	Highest Min	79-1956		Highest Min	77-1956		Highest Min	79-1978		Highest Min	80-1978		Highest Min	79-1954		Highest Min	76-1954		Highest Min	79-1980
	Greatest ppt	2.87-1962		Greatest ppt	5.78-1971		Greatest ppt	1.32-1971		Greatest ppt	2.39-1971		Greatest ppt	4.30-1974		Greatest ppt	1.05-1990		Greatest ppt	1.56-1985
Normal	22	Actual	Normal	23	Actual	Normal	24	Actual	Normal	25	Actual	Normal	26	Actual	Normal	27	Actual	Normal	28	Actual
82.0	max		82.0	max		81.0	max		81.0	max		82.0	max		80.0	max		80.0	max	
60.0	min		59.0	min		59.0	min		60.0	min		59.0	min		59.0	min		59.0	min	
0.16	ppt		0.13	ppt		0.14	ppt		0.11	ppt		0.14	ppt		0.10	ppt		0.03	ppt	
1	hdd		1	hdd		1	hdd		1	hdd		1	hdd		1	hdd		2	hdd	
7	cdd		6	cdd		6	cdd		6	cdd		7	cdd		6	cdd		6	cdd	
	Highest Max	99-1921		Highest Max	101-1931		Highest Max	99-1931		Highest Max	99-1939		Highest Max	96-1938		Highest Max	96-1954		Highest Max	102-1953
	Lowest Max	61-1989		Lowest Max	63-1974		Lowest Max	58-1974		Lowest Max	66-1962		Lowest Max	57-1984		Lowest Max	54-1984		Lowest Max	55-1984
	Lowest Min	44-1918		Lowest Min	44-1989		Lowest Min	37-1989		Lowest Min	43-1926		Lowest Min	37-1912		Lowest Min	35-1942		Lowest Min	38-1908
	Highest Min	73-1980		Highest Min	73-1986		Highest Min	76-1958		Highest Min	75-1986		Highest Min	73-1981		Highest Min	73-1977		Highest Min	73-1986
	Greatest ppt	3.78-1970		Greatest ppt	1.90-1968		Greatest ppt	1.84-1959		Greatest ppt	2.07-1959		Greatest ppt	1.70-1973		Greatest ppt	1.09-1961		Greatest ppt	56-1987
Normal	29	Actual	Normal	30	Actual	Normal	30	Actual	Normal	30	Actual	Normal	30	Actual	Normal	30	Actual	Normal	30	Actual
80.0	max		79.0	max		79.0	max		79.0	max		79.0	max		79.0	max		79.0	max	
57.0	min		55.0	min		55.0	min		57.0	min		57.0	min		57.0	min		57.0	min	
0.16	ppt		0.09	ppt		0.09	ppt		0.09	ppt		0.09	ppt		0.09	ppt		0.09	ppt	
2	hdd		2	hdd		2	hdd		2	hdd		2	hdd		2	hdd		2	hdd	
6	cdd		5	cdd		5	cdd		5	cdd		5	cdd		5	cdd		5	cdd	
	Highest Max	98-1953		Highest Max	99-1979		Highest Max	99-1931		Highest Max	99-1939		Highest Max	96-1938		Highest Max	96-1954		Highest Max	102-1953
	Lowest Max	57-1984		Lowest Max	59-1959		Lowest Max	58-1974		Lowest Max	66-1962		Lowest Max	57-1984		Lowest Max	54-1984		Lowest Max	55-1984
	Lowest Min	37-1916		Lowest Min	35-1984		Lowest Min	37-1989		Lowest Min	43-1926		Lowest Min	37-1912		Lowest Min	35-1942		Lowest Min	38-1908
	Highest Min	73-1955		Highest Min	72-1977		Highest Min	76-1958		Highest Min	75-1986		Highest Min	73-1981		Highest Min	73-1977		Highest Min	73-1986
	Greatest ppt	4.45-1986		Greatest ppt	1.85-1959		Greatest ppt	1.84-1959		Greatest ppt	2.07-1959		Greatest ppt	1.70-1973		Greatest ppt	1.09-1961		Greatest ppt	56-1987

SEPTEMBER AVERAGES

TEMPERATURE : 73.6°F

PRECIPITATION : 4.10"

HEATING DEGREE DAYS : 17

COOLING DEGREE DAYS : 283