

# **OKLAHOMA MONTHLY SUMMARY APRIL 1993**

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## MONTHLY SUMMARY FOR APRIL 1993

Spring weather struck Oklahoma with a vengeance during April. A tornado struck Tulsa and Catoosa, killing seven people, injuring over 90 others and causing extensive damage, especially in Catoosa. Flooding forced the evacuations in Stillwater and winter weather made an encore appearance as snow and sleet were reported at several locations during the month. Temperatures averaged nearly four degrees below normal. Precipitation across the state averaged almost an inch above normal, although precipitation in many areas in northwestern Oklahoma was below normal for the month.

The statewide average temperature was 56.9 degrees, the ninth lowest April average temperature since 1892. Precipitation for the month averaged 4.04 inches. For the year-to-date, temperatures have averaged 45.2 degrees which is 2.1 degrees below normal and the 13th lowest temperature for the first third of the year. Precipitation, thus far, has averaged 11.82 inches or 2.92 inches above normal, a total that ranks as the 14th greatest January through April total for the state.

Two upper level disturbances crossed the state during the first week of the month, keeping skies mostly cloudy and the weather cool. Reports of precipitation in excess of an inch were commonplace in eastern Oklahoma on the 4th and 5th. Fair weather dominated the state from the 9th through the 11th as temperatures in many areas soared into the mid 80s.

Rain and cooler air returned to the state by the middle of the month. Thunderstorms on the 13th produced street flooding in a number of areas in central and southeastern Oklahoma. Chandler reported over 6 inches of rain and Ada reported over 4 inches. Cooler air arrived on the 14th as snow reportedly fell, but did not accumulate, at several locations including Cement and the Wichita Mountains Wildlife Refuge. Sleet and a mixture of rain, sleet and snow were widely reported across northern portions of the state. Overnight low temperatures in the upper 20s were reported in the northwest on the 15th, 16th and 17th.

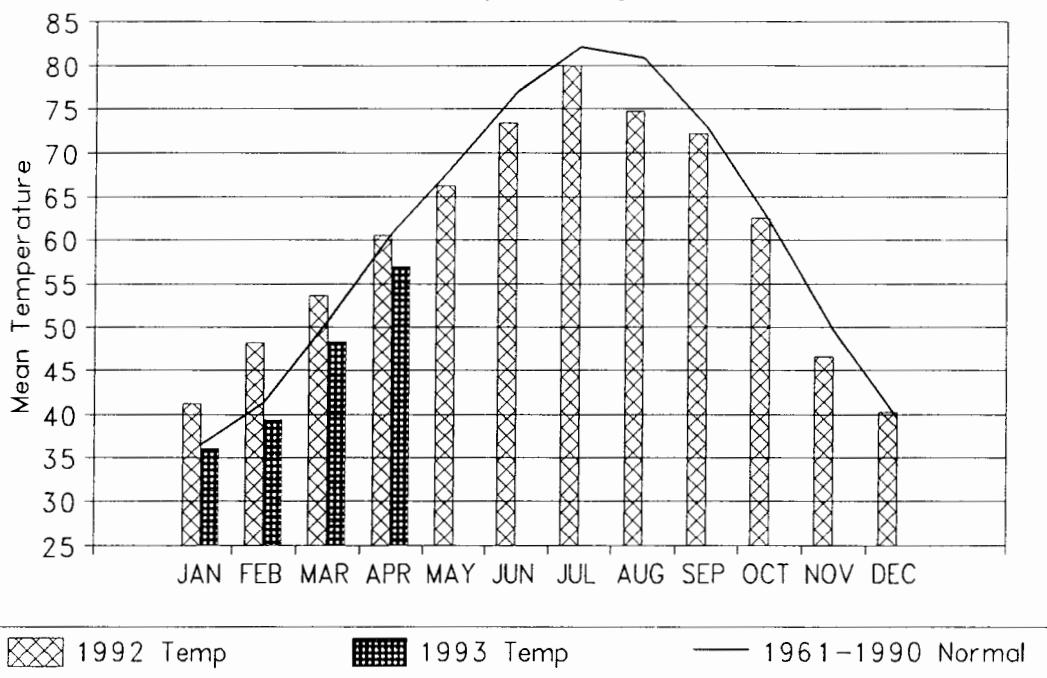
A cold front that moved through the state on the 23rd and 24th was the catalyst for the most significant weather event of the spring season, thus far, the Tulsa-Catoosa tornadoes of April 24. According to reports from the National Weather Service, two tornadoes killed seven people, injured at least 90 others, destroyed over 100 residences in Catoosa, destroyed at least 70 percent of the businesses in Catoosa, damaged about 1500 homes and inflicted major damage to Catoosa High School. Total damage has been estimated at \$100 million. Another tornado the same evening destroyed seven mobile homes and two houses near Locust Grove in Mayes County. Large hail and damaging thunderstorm winds were reported at many locations across northeastern Oklahoma and, from a separate thunderstorm system, in southern Oklahoma.

Another round of strong thunderstorms developed during late afternoon on the 28th. A tornado was reported by the public west of Retrop in Beckham County and reports of large hail and damaging winds were common in southwestern Oklahoma. Extremely heavy rain in Payne County prompted the evacuation of two apartment complexes in southwest Stillwater, and flooding caused the closure of numerous roads in the city. Water had receded by 9 AM on the 29th. City officials in Stillwater reported that approximately seven inches of rain fell in Stillwater overnight. The official observer a mile west of Stillwater reported 5.5 inches of precipitation. The nearby communities of Perkins and Ingalls each reported more than 4.5 inches of precipitation. The heavy rain moved eastward through the night into Creek and Okmulgee Counties, causing flooding south of Bristow and street flooding in Depew and Dewar.

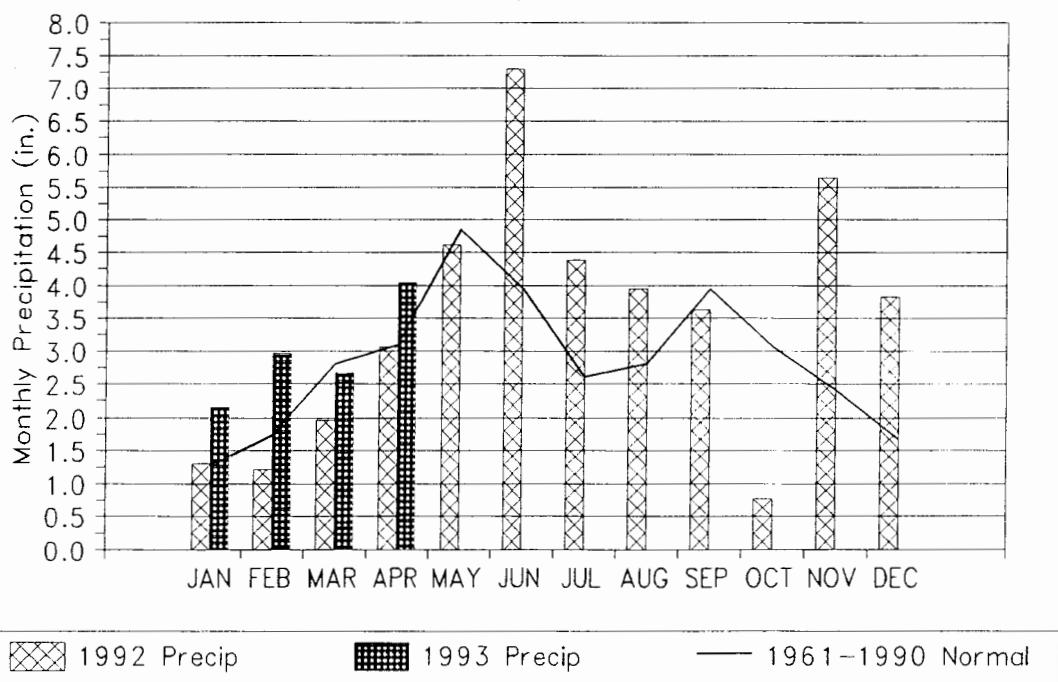
Another round of thunderstorms developed in northwestern Oklahoma on the afternoon of the 30th, producing large hail in Harper, Woods, Woodward and Major Counties. A tornado was reported north of Mooreland and several funnel clouds were observed near Woodward.

Howard L. Johnson

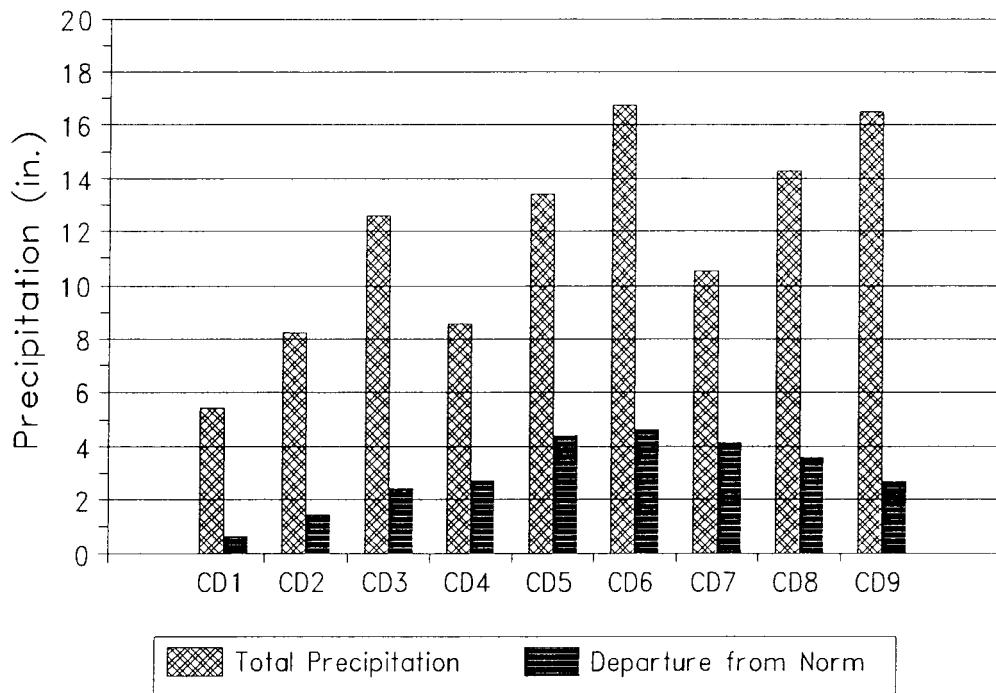
1992 and 1993 STATEWIDE TEMPERATURES  
Monthly Averages



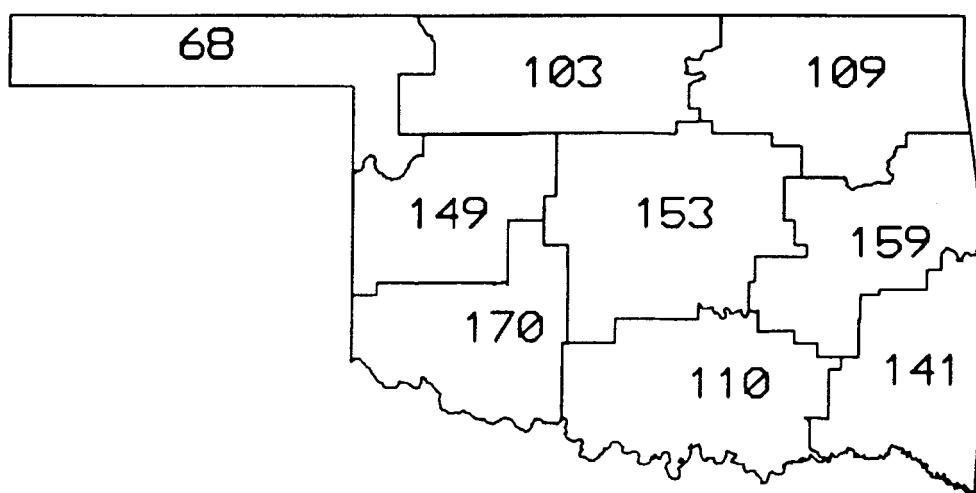
1992 and 1993 STATEWIDE PRECIPITATION  
Monthly Totals



CD Averaged Precipitation  
1993 January through April Totals



CD PERCENT OF NORMAL PRECIPITATION



APRIL 1993

EXTREME VALUES OF TEMPERATURE AND PRECIPITATION IN EACH CLIMATE DIVISION  
APRIL, 1993

CD	MAX TEMP	DATE	LOCATION	MIN TEMP	DATE	LOCATION	24-HOUR PRECIP	DATE	LOCATION	MONTHLY PRECIP	LOCATION
1	91	19	BUFFALO	25	2	BUFFALO	1.10	29	GAGE FAA APT	1.91	GAGE FAA APT
2	90	23	ALVA								
	90	24	FREEDOM	23	2	FREEDOM	3.19	30	MEDFORD	6.05	PERRY
3	85	10	MANNFORD	24	2	PRYOR	1.97	29	PAWNEE	5.83	KANSAS
4	90	18	ERICK	28	2	HAMMON	3.83	29	CORDELL	5.67	CORDELL
	90	23	REYDON	28	2	TALOGA					
5	89	12	BLANCHARD	27	2	STILLWATER	6.70	14	CHANDLER	10.97	CHANDLER
	89	12	CHICKASHA								
	89	12	GUTHRIE								
6	87	19	MCALESTER	23	2	TAHLEQUAH	2.90	14	WETUMKA	8.65	CLAYTON
7	91	18	HOLLIS	22	2	WALTERS	4.08	29	SEDAN	6.03	SEDAN
8	90	24	HEALDTON	27	2	MARLOW	4.08	14	ADA	8.08	DAISY
	90	13	WAURIKA DAM	27	22	MCGEE CREEK					
9	84	10	ANTLERS	27	1	POTEAU	2.37	15	BENGAL	8.76	SPIRO
	84	10	POTEAU	27	2	WILBURTON					
	84	10	WILBURTON								

**TABLE OF 1992/1993 COMPARISONS**

Station	April Temperature (F)		April Precipitation (in.)	
	1992	1993	1992	1993
Arnett	56.3	51.2	1.59	0.80
Enid	58.7	55.7	2.63	3.52
Mutual	56.8	52.5	1.88	1.92
Tulsa	62.2	56.7	5.03	4.60
Elk City	60.7	57.0	1.49	1.86
Oklahoma City	61.3	56.2	3.64	2.51
McAlester	62.7	60.3	4.83	5.10
Altus Irr Sta	62.8	59.5	2.36	3.39
Durant	62.0	58.0	2.43	4.21
Ada	61.6	57.5	5.15	7.13
Antlers	62.4	59.3	2.66	5.36

**EXTREMES**

Variable	Station	Division	Observation	Date
Minimum temperature (F)	Freedom	2	23	2
	Tahlequah	6	23	2
Maximum temperature (F)	Buffalo	1	91	19
	Hollis	7	91	18
Maximum 24-hour precipitation	Stillwater	5	5.50"	29

**APRIL 1993 SUMMARY FOR NORTHWEST DIVISION (CD1)**

NAME	ID	CD	DEV						HEAT						COOL						DEV					
			MEAN	NUM	FROM	MAX	MIN	DEG	FROM	DEG	FROM	DEG	FROM	TOT	NUM	FROM	MAX	24-HR	DAY	PPT	OBS	NORM	24-HR	DAY		
ARNETT	332	1	51.2	28	*****	87.	24	30.	2	388.5	*****	3.0	*****	.804	28	*****	.65	4								
BEAVER	593	1	52.3	30	-3.5	88.	24	26.	17	389.5	95.5	9.0	-9.0	2.092	30	.54	1.04	29								
BOISE CITY 2 E	908	1	53.9	30	-1.3	83.	23	27.	15	337.5	31.5	3.5	-8.5	1.021	30	-.16	.90	3								
BUFFALO	1243	1	56.2	30	-3.5	91.	19	25.	2	285.0	77.0	19.5	-29.5	1.450	30	-.90	.45	28								
FARGO	3070	1	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	1.460	30	-.55	.54	29								
GAGE FAA APT	3407	1	55.5	30	-3.2	89.	23	27.	2	294.5	73.5	11.0	-21.0	1.915	30	.04	1.10	29								
GATE	3489	1	53.4	30	-3.8	87.	24	28.	2	359.5	95.5	11.5	-18.5	.843	30	-.99	.25	4								
GOODWELL RES ST	3628	1	52.2	30	-2.3	86.	24	28.	3	386.0	59.0	.5	-11.5	.642	30	-.59	.62	4								
GUYMON	3835	1	53.2	26	*****	88.	23	27.	22	318.0	*****	10.5	*****	.311	28	*****	.30	4								
HOOKER	4298	1	52.6	30	-3.8	87.	24	29.	17	374.0	97.0	2.5	-16.5	.192	30	-1.19	.17	4								
KENTON	4766	1	52.2	27	*****	82.	23	27.	15	347.0	*****	2.5	*****	.002	30	-1.21	.00	27								
LAVERNE	5045	1	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	1.154	29	*****	.51	29								
OPTIMA LAKE	6740	1	53.2	30	*****	88.	24	27.	16	367.0	*****	12.0	*****	.364	30	*****	.19	3								
REGNIER	7534	1	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	.910	30	-.18	.48	3								
TURPIN 4 SSE	9017	1	52.7	29	*****	86.	24	28.	16	363.0	*****	5.0	*****	.070	30	*****	.04	28								

**APRIL 1993 SUMMARY FOR NORTH CENTRAL DIVISION (CD2)**

NAME	ID	CD	DEV						HEAT						COOL						DEV					
			MEAN	NUM	FROM	MAX	MIN	DEG	FROM	DEG	FROM	DEG	FROM	TOT	NUM	FROM	MAX	24-HR	DAY	PPT	OBS	NORM	24-HR	DAY		
ALVA	193	2	55.4	30	*****	82.	26	29.	2	290.0	*****	1.5	*****	1.910	30	*****	.65	4								
VANCE AFB	302	2	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	3.233	30	*****	1.05	15								
BILLINGS	755	2	52.3	30	-5.8	82.	13	25.	2	380.5	144.5	.0	-29.0	3.040	30	-.05	1.05	15								
BLACKWELL 2E	818	2	54.7	29	-4.0	77.	27	26.	2	297.5	79.5	.0	-29.0	3.080	30	.11	1.36	29								
BRAMAN	1075	2	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	2.780	29	*****	1.25	29								
CEDARDALE	1620	2	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	1.211	31	*****	.51	29								
CHEROKEE	1724	2	55.9	30	-4.2	79.	26	29.	2	277.5	89.5	4.0	-37.0	1.230	30	-1.15	.80	29								
ENID	2912	2	55.7	30	-4.8	80.	12	28.	2	285.5	108.5	7.0	-35.0	3.520	30	.65	1.22	15								
FT SUPPLY DAM	3304	2	52.8	30	-4.4	88.	24	29.	16	371.0	109.0	5.5	-22.5	1.042	30	-.70	.27	17								
FREEDOM	3358	2	52.6	30	-7.2	90.	24	23.	2	381.0	183.0	8.5	-33.5	1.750	30	-.42	.52	4								
GREAT SALT PLNS	3740	2	53.8	30	-4.6	79.	27	28.	2	335.5	105.5	.5	-31.5	1.540	30	-1.12	.49	28								
HARDY	3909	2	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	3.344	30	*****	1.05	28								
HELENA 1 SSE	4019	2	52.5	30	-4.6	78.	27	26.	2	374.5	116.5	.0	-21.0	2.221	30	-.26	1.32	28								
JEFFERSON	4573	2	56.2	30	-3.5	80.	26	26.	2	266.5	66.5	3.5	-37.5	3.680	30	.92	1.91	30								
LAMONT	5013	2	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	3.000	30	*****	1.43	29								
MEDFORD	5768	2	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	5.360	29	*****	3.19	30								
MORRISON	6065	2	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	4.080	30	*****	2.90	29								
MUTUAL	6139	2	52.5	30	-4.6	81.	24	29.	16	374.5	111.5	.0	-26.0	1.920	30	-.51	.90	29								
NEWKIRK	6278	2	54.5	30	-5.1	78.	27	24.	2	317.0	116.0	2.5	-36.5	3.380	30	-.29	1.38	29								
ORIENTA	6751	2	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	1.290	30	-1.32	.68	29								
PERRY	7012	2	57.0	30	-4.4	80.	26	28.	2	253.5	92.5	13.5	-39.5	6.051	30	3.35	3.00	29								
PONCA CITY FAA	7201	2	56.7	30	-2.4	80.	27	28.	2	264.0	52.0	14.0	-21.0	3.663	30	.84	1.37	29								
RED ROCK 1 NNE	7505	2	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	5.290	30	2.53	2.58	29								
WAYNOKA	9404	2	54.5	30	-5.5	85.	23	26.	2	323.5	127.5	8.5	-37.5	1.020	30	-1.07	.39	29								
WOODWARD	9760	2	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	.982	31	-1.07	.45	29								

**APRIL 1993 SUMMARY FOR NORTHEAST DIVISION (CD3)**

NAME	ID	CD	DEV					HEAT					COOL					DEV	
			MEAN	NUM	FROM	MAX	MIN	DEG	FROM	DEG	FROM	DEG	TOT	NUM	FROM	MAX	24-HR	DAY	
BARNSDALL	535	3	55.8	30	-5.3	82.	10	25.	2	286.0	123.0	10.5	-35.5	3.623	30	.28	.98	18	
BARTLESVILLE 2W	548	3	56.5	30	-4.8	83.	10	25.	2	263.5	102.5	10.0	-40.0	3.262	30	-.13	.84	29	
BIXBY	782	3	54.7	29	-4.7	82.	13	29.	2	307.5	117.5	7.5	-14.5	5.240	29	*****	1.40	29	
BURBANK	1256	3	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	3.523	30	.76	1.28	28	
CHELSEA 4 S	1717	3	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	4.350	30	*****	1.02	18	
CLAREMORE	1828	3	53.3	30	-5.7	80.	13	28.	2	357.0	155.0	5.0	-17.0	4.440	30	.89	.93	15	
CLEVELAND 5 WSW1902	3	57.7	28	*****	82.	13	32.	2	220.0	*****	15.0	*****	4.870	30	*****	1.40	4		
FORAKER	3250	3	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	2.090	30	-1.03	.62	18	
HOLLOW	4258	3	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	4.482	30	.86	1.29	15	
HOMINY	4289	3	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	3.762	30	.69	.82	5	
HULAH DAM	4393	3	53.4	29	-5.3	82.	11	25.	2	341.5	127.5	4.5	-20.5	2.011	29	*****	.70	18	
JAY TOWER	4567	3	52.8	30	*****	80.	11	28.	2	367.0	*****	2.0	*****	3.770	30	*****	1.10	15	
KANSAS 1 ESE	4672	3	55.1	30	-5.4	79.	10	26.	2	305.0	134.0	7.0	-29.0	5.828	30	1.55	1.77	25	
KEYSTONE DAM	4812	3	54.6	28	*****	81.	13	27.	2	295.5	*****	4.0	*****	4.173	29	*****	1.02	15	
LENAPAH	5118	3	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	3.610	29	*****	.90	15	
MANNFORD 6 NW	5522	3	58.1	30	-3.9	85.	10	26.	2	235.0	87.0	28.5	-29.5	4.420	30	1.13	1.06	5	
MARAMEC	5540	3	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	5.210	30	2.16	1.56	29	
MIAMI	5855	3	54.2	29	-4.5	82.	23	28.	2	314.0	106.0	.0	-19.0	1.180	24	*****	.70	18	
NOWATA	6485	3	55.5	30	-4.8	80.	12	28.	2	293.0	108.0	6.5	-37.5	3.330	30	-.31	.76	14	
ONETA 1 WNW	6713	3	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	3.560	30	*****	.80	15	
PAWHUSKA	6935	3	56.1	30	-4.5	80.	10	26.	2	276.5	100.5	10.0	-34.0	3.760	30	.42	1.02	29	
PAWNEE	6940	3	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	4.850	30	1.74	1.97	29	
PRYOR 6 N	7309	3	52.7	30	-6.1	79.	11	24.	2	369.0	156.0	.5	-26.5	3.992	30	.08	1.18	15	
RALSTON	7390	3	56.7	30	-4.3	80.	12	26.	2	260.5	90.5	10.0	-37.0	2.883	30	-.28	1.20	29	
RAMONA 4 N	7394	3	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	4.131	30	*****	1.64	25	
SKIATOOK	8258	3	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	2.700	30	-.75	.64	18	
SPAVINAW	8380	3	57.2	30	-4.4	78.	27	28.	2	257.5	107.5	23.5	-24.5	3.244	30	-.75	1.07	15	
TULSA WSO APT	8992	3	56.7	30	-4.8	83.	10	28.	2	269.0	118.0	21.0	-25.0	4.602	30	.88	.95	15	
UPPER SPAVINAW	9101	3	57.9	27	*****	84.	10	36.	6	222.0	*****	31.5	*****	4.964	28	*****	1.28	5	
VINITA 2 N	9203	3	56.1	30	-3.4	78.	10	25.	2	279.0	85.0	11.5	-17.5	2.801	30	-1.03	.91	15	
WAGONER	9247	3	57.8	30	-4.0	81.	12	29.	2	241.0	103.0	24.0	-18.0	4.411	29	*****	1.04	15	
WANN	9298	3	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	3.430	30	*****	1.00	4	
WYNONA	9792	3	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	3.304	30	*****	.99	5	

**APRIL 1993 SUMMARY FOR WEST CENTRAL DIVISION (CD4)**

NAME	ID	CD	DEV					HEAT					COOL					DEV	
			MEAN	NUM	FROM	MAX	MIN	DEG	FROM	DEG	FROM	DEG	TOT	NUM	FROM	MAX	24-HR	DAY	
CANTON DAM	1445	4	52.9	30	-5.3	79.	19	29.	2	365.0	128.0	1.5	-31.5	2.942	29	*****	.98	29	
CHEYENNE	1738	4	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	1.930	30	-.09	1.19	29	
CLINTON	1909	4	56.5	30	-4.5	83.	12	30.	2	260.0	89.0	5.0	-46.0	2.782	30	.47	1.33	29	
COLONY	2039	4	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	2.820	30	*****	.95	29	
CORDELL	2125	4	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	5.672	30	3.64	3.83	29	
ELK CITY 1 E	2849	4	57.0	29	-3.3	85.	12	32.	2	242.5	64.5	10.0	-27.0	1.861	29	*****	.76	29	
ERICK 4 E	2944	4	57.5	30	-2.7	90.	18	30.	2	239.0	58.0	13.5	-23.5	1.970	30	-.07	.81	29	
GEARY	3497	4	59.3	30	-.9	87.	12	35.	2	195.0	7.0	25.0	-19.0	3.940	30	1.53	1.93	29	
HAMMON 1 NNE	3871	4	52.8	30	-5.7	84.	19	28.	2	366.5	136.5	.0	-35.0	2.391	30	.43	.86	29	
LEEEDEY	5090	4	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	3.320	31	1.08	2.48	28	
MACKIE 4 NNW	5463	4	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	2.730	30	*****	1.42	29	
MORAVIA 2 NNE	6035	4	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	3.810	30	1.80	2.08	29	
OKEENE	6629	4	55.8	30	-5.2	80.	18	29.	2	280.5	108.5	3.0	-46.0	2.830	30	.45	1.36	29	
RETROP	7565	4	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	3.630	30	*****	2.00	29	
REYDON	7579	4	59.2	30	-.1	90.	23	34.	2	204.0	-15.0	30.5	-11.5	2.321	30	.30	.85	14	
SAYRE	7952	4	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	1.360	30	-.56	.55	29	
TALOGA	8708	4	54.7	30	-4.4	80.	18	28.	2	313.5	104.5	4.0	-28.0	3.583	30	1.22	2.15	29	
THOMAS	8815	4	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	3.930	30	*****	1.68	29	
VICI	9172	4	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	4.820	30	2.35	2.00	30	
WATONGA	9364	4	55.8	30	-4.2	82.	18	29.	2	281.0	92.0	6.0	-33.0	3.711	30	1.31	1.90	29	
WEATHERFORD	9422	4	55.0	30	-3.7	85.	13	29.	2	308.5	91.5	8.0	-20.0	3.011	30	.89	1.67	29	

**APRIL 1993 SUMMARY FOR CENTRAL DIVISION (CD5)**

NAME	ID	CD	DEV						HEAT						COOL						DEV					
			MEAN	NUM	FROM	MAX	MIN	TEMP	OBS	NORM	TEMP	DAY	TEMP	DAY	DEG	FROM	DEG	FROM	DEG	FROM	TOT	NUM	FROM	MAX	24-HR	DAY
AMBER	200	5	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	3.570	30	*****	1.78	29	
ARCADIA	288	5	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	3.450	30	*****	1.65	30	
TINKER AFB	325	5	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	2.293	30	*****	.84	29	
BLANCHARD 2 SSW	830	5	58.8	30	-3.4	89.	12	30.	2	215.0	74.0	28.5	-28.5	2.891	30	-.22	1.35	29								
BRISTOW	1144	5	58.1	30	-4.1	84.	10	28.	2	227.5	83.5	21.0	-39.0	7.780	30	4.45	4.17	29								
CHANDLER	1684	5	58.9	29	-3.2	86.	10	29.	2	203.0	62.0	26.0	-28.0	4.520	30	1.33	2.10	29								
CHICKASHA EX ST	1750	5	57.8	30	-4.7	89.	12	30.	2	239.0	104.0	24.5	-35.5	4.590	30	1.84	2.28	29								
COX CITY 1 E	2196	5	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	2.750	30	*****	.88	14		
CRESCENT	2242	5	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	5.420	30	*****	2.31	29		
CUSHING	2318	5	55.2	30	-4.9	83.	13	32.	2	303.5	123.5	9.0	-24.0	5.561	30	2.25	3.30	29								
EL RENO 1 N	2818	5	57.4	30	-3.2	87.	12	35.	16	246.5	69.5	18.0	-27.0	4.070	30	1.50	1.72	29								
GUTHRIE	3821	5	59.3	30	-2.5	89.	12	28.	2	208.0	56.0	37.5	-18.5	7.201	30	4.54	3.87	29								
HENNESSEY 4 ESE	4055	5	54.6	27	*****	77.	22	28.	2	282.0	*****	0	*****	4.831	27	*****	2.00	29								
INGALLS	4489	5	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	7.242	30	*****	4.57	29		
KINGFISHER 2 SE	4861	5	56.3	30	-4.8	86.	12	28.	2	273.0	99.0	11.0	-46.0	3.951	30	1.34	1.55	29								
KONAWA	4915	5	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	4.850	30	.77	1.12	29		
MARSHALL	5589	5	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	6.010	30	3.45	3.83	29		
MEEKER 4 W	5779	5	57.4	30	-4.2	83.	24	29.	2	247.5	89.5	19.5	-36.5	3.410	30	.15	1.47	28								
MULHALL	6110	5	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	6.940	30	*****	3.50	29		
NORMAN 3 S	6386	5	57.2	30	-5.3	88.	12	30.	2	257.5	129.5	22.5	-30.5	2.891	30	-.34	1.46	29								
OILTON 2 SE	6616	5	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	6.530	30	*****	3.57	28		
OKEMAH	6638	5	59.0	30	-2.9	85.	10	33.	2	205.5	68.5	26.0	-18.0	4.982	30	1.06	1.70	29								
OKLAHOMA CTY WS	6661	5	56.2	30	-4.3	86.	12	31.	2	274.5	98.5	9.0	-29.0	2.505	30	-.26	1.09	14								
PERKINS	7003	5	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	7.490	30	4.57	4.86	29		
PIEDMONT	7068	5	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	5.210	30	*****	2.60	29		
PRAGUE	7264	5	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	4.190	30	.49	1.20	4		
PURCELL 5 SW	7327	5	58.8	30	-3.6	86.	12	28.	2	217.0	85.0	31.0	-23.0	3.201	30	-.41	.95	29								
SEMINOLE	8042	5	59.7	30	-3.9	86.	11	31.	2	194.5	88.5	36.0	-28.0	4.180	30	.36	1.05	29								
SHAWNEE	8110	5	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	3.070	30	-.91	.78	14		
STELLA	8479	5	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	2.750	30	*****	.77	29		
STILLWATER 2 W	8501	5	55.9	30	-3.4	86.	13	27.	2	282.0	78.0	9.0	-24.0	8.300	30	5.38	5.50	29								
STROUD 1 N	8563	5	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	6.121	30	*****	3.25	29		
TECUMSEH	8751	5	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	2.750	30	*****	.65	14		
TROUSDALE	8960	5	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	3.080	30	*****	.62	14		
UNION CITY 1 SE	9086	5	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	3.321	30	.46	1.48	29		
WELTY 1 SSE	9479	5	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	6.390	30	*****	2.60	29		
WEWOKA	9575	5	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	5.070	30	1.36	1.51	29		

**APRIL 1993 SUMMARY FOR EAST CENTRAL DIVISION (CD6)**

NAME	ID	CD	DEV						HEAT						COOL						DEV					
			MEAN	NUM	FROM	MAX	MIN	TEMP	OBS	NORM	TEMP	DAY	TEMP	DAY	DEG	FROM	DEG	FROM	DEG	FROM	TOT	NUM	FROM	MAX	24-HR	DAY
ASHLAND	364	6	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	6.941	30	*****	1.80	4		
BEGGS	631	6	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	5.860	30	*****	2.50	29		
BOYNTON	1027	6	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	4.882	30	*****	1.34	29		
CALVIN	1391	6	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	5.842	30	1.64	1.40	14		
CHECOTAH	1711	6	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	6.853	30	2.73	2.55	29		
CLAYTON 14 WNW	1858	6	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	8.650	30	*****	2.85	14		
DEWAR 2 NE	2485	6	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	6.060	30	2.04	2.36	29		
DUSTIN	2690	6	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	6.450	30	*****	1.66	29		
EUFALUA	2993	6	58.9	30	-4.4	83.	11	33.	2	212.0	96.0	29.0	-36.0	5.390	29	*****	1.80	14								
HANNA	3884	6	58.8	30	-3.6	83.	12	31.	2	217.0	91.0	30.5	-17.5	6.481	30	2.39	1.62	4								
HARTSHORNE	3946	6	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	7.460	30	*****	1.96	14		
HASKELL	3956	6	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	6.440	30	2.79	1.98	29		
HOLDENVILLE	4235	6	59.0	23	*****	85.	10	29.	2	158.0	*****	20.5	*****	7.430	30	3.44	2.39	14								
LAKE EUFAULA	4975	6	56.5	28	*****	85.	13	33.	2	250.0	*****	15.0	*****	7.032	29	*****	2.32	29								
LYONS 2 N	5437	6	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	6.551	30	1.78	2.65	14		
MARBLE CITY	5546	6	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	7.622	30	*****	1.85	15		
MCALESTER FAA	5664	6	60.3	30	-1.6	87.	19	32.	2	193.5	51.5	53.5	4.5	5.102	30	1.00	1.11	4								
MCCURTAIN 1 SE	5693	6	59.1	30	-3.9	85.	10	31.	2	214.5	100.5	36.5	-17.5	8.580	30	4.04	2.20	15								
MUSKOGEE	6130	6	58.2	30	-3.8	82.	12	30.	2	236.0	104.0	31.5	-10.5	5.321	30	1.24	1.63	28								
OKMULGEE W W	6670	6	54.8	30	-5.4	83.	11	30.	2	307.0	135.0	2.5	-25.5	7.232	30	3.04	3.42	28								
OKTAHA 2 NE	6678	6	*****	0	*****	*****																				

**APRIL 1993 SUMMARY FOR SOUTHWEST DIVISION (CD7)**

NAME	ID	CD	DEV						HEAT						COOL						DEV					
			MEAN	NUM	FROM	MAX	MIN	DEG	FROM	DEG	FROM	TOT	NUM	FROM	MAX	PPT	OBS	NORM	24-HR	DAY						
TEMP	TEMP	OBS	NORM	TEMP	DAY	TEMP	DAY	DAY	NORM	DAY	NORM	PPT	OBS	NORM	24-HR	DAY										
ALTUS IRR STA	179	7	59.5	30	-3.8	90.	12	33.	2	190.0	67.0	25.0	-47.0	3.390	30	1.47	1.78	29								
ALTUS DAM	184	7	59.2	30	-2.3	88.	19	35.	2	216.5	60.5	41.0	-7.0	5.250	30	3.34	3.18	29								
ANADARKO	224	7	58.1	26	*****	87.	12	28.	2	197.5	*****	18.0	*****	3.660	30	1.20	1.52	29								
APACHE	260	7	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	4.530	30	1.93	2.00	29								
ALTUS AFB	447	7	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	2.832	29	*****	1.35	29								
CARNEGIE 2 ENE	1504	7	58.4	30	-3.2	87.	12	27.	2	218.0	64.0	20.0	-32.0	5.570	30	3.21	2.87	29								
CHATTANOOGA	1706	7	59.9	28	*****	86.	12	31.	2	167.0	*****	25.0	*****	2.070	28	*****	1.72	14								
DUNCAN 11 W	2668	7	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	2.221	30	*****	1.15	13								
FREDERICK	3353	7	56.7	30	-5.6	87.	13	34.	3	261.0	125.0	13.0	-42.0	3.160	30	.86	1.80	29								
GRANDFIELD 4 NW	3709	7	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	3.850	30	1.45	1.90	14								
HEADRICK	3998	7	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	2.420	30	*****	1.05	20								
HOBART FAA APT	4204	7	57.9	28	*****	88.	12	32.	2	209.0	*****	11.0	*****	4.072	29	*****	1.73	29								
HOLLIS	4249	7	59.0	30	-3.9	91.	18	32.	2	189.5	58.5	11.0	-57.0	3.030	30	1.05	1.68	28								
LAWTON	5063	7	57.7	30	-4.2	87.	13	34.	2	240.0	101.0	21.0	-25.0	3.121	30	.69	1.73	14								
FORT SILL	5068	7	58.6	30	*****	88.	12	33.	2	210.5	*****	18.5	*****	3.374	30	*****	2.14	14								
LOOKEBA 2 ENE	5329	7	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	3.371	30	.91	1.13	15								
MANGUM RES STA	5509	7	57.7	30	-5.2	86.	12	33.	9	226.0	95.0	7.0	-61.0	4.730	30	2.94	1.73	29								
RANDLETT 9 E	7403	7	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	3.611	30	*****	1.66	29								
ROOSEVELT	7727	7	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	3.820	30	1.46	1.83	29								
SEDAN	8016	7	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	6.031	30	*****	4.08	29								
SNYDER	8299	7	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	2.341	30	.09	.88	16								
VINSON 3 WNW	9212	7	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	3.060	29	*****	1.52	29								
WALTERS	9278	7	60.3	30	-3.2	89.	12	34.	2	178.0	57.0	36.0	-40.0	2.400	30	-.48	1.37	14								
WICHITA MT WLR	9629	7	54.9	27	*****	85.	19	28.	2	280.5	*****	7.5	*****	3.531	27	*****	1.70	15								
WILLOW	9668	7	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	3.961	30	*****	1.51	29								

**APRIL 1993 SUMMARY FOR SOUTH CENTRAL DIVISION (CD8)**

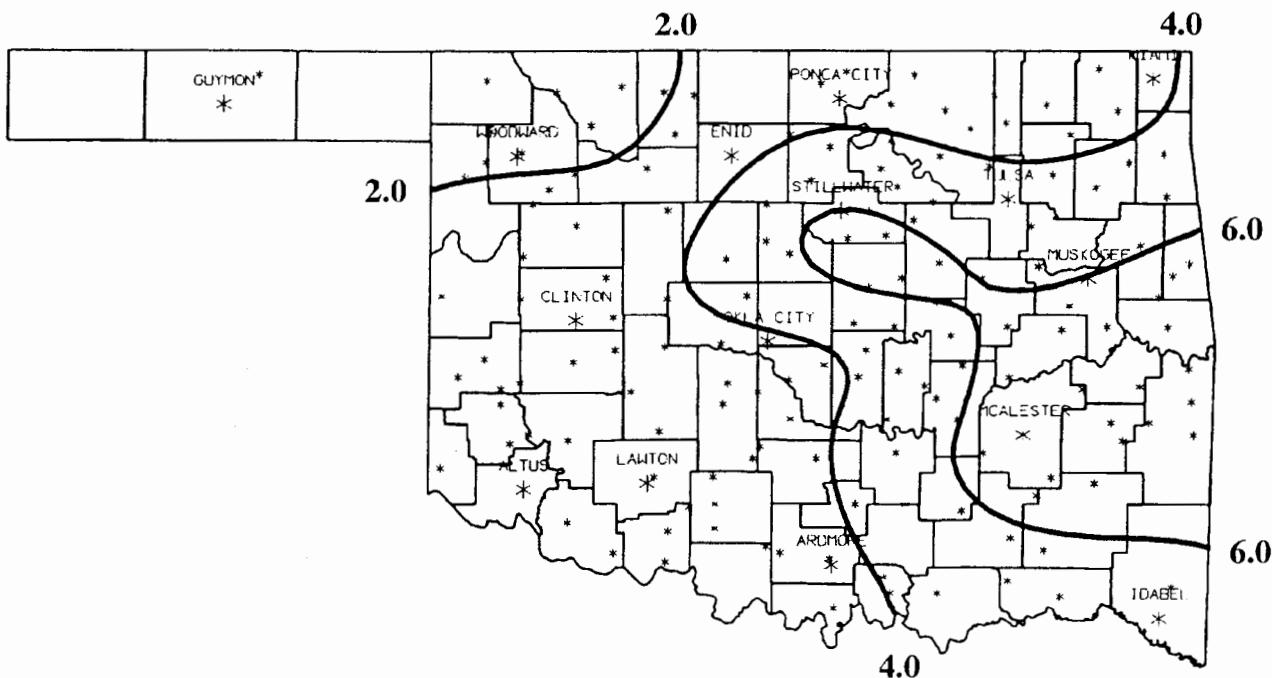
NAME	ID	CD	DEV						HEAT						COOL						DEV					
			MEAN	NUM	FROM	MAX	MIN	DEG	FROM	DEG	FROM	TOT	NUM	FROM	MAX	PPT	OBS	NORM	24-HR	DAY						
TEMP	TEMP	OBS	NORM	TEMP	DAY	TEMP	DAY	DAY	NORM	DAY	NORM	PPT	OBS	NORM	24-HR	DAY										
ADA	17	8	57.5	30	-4.9	86.	10	30.	2	239.5	107.5	14.5	-39.5	7.131	30	3.64	4.08	14								
ALLEN	147	8	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	4.920	30	*****	1.60	4								
ARDMORE	292	8	61.0	29	-3.8	89.	11	33.	2	165.0	69.0	49.5	-40.5	3.830	30	.30	1.10	14								
ATOKA DAM	394	8	57.5	22	*****	85.	12	31.	2	190.5	*****	24.5	*****	5.980	22	*****	1.90	26								
BOKCHITO	917	8	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	3.820	30	*****	1.32	29								
CANEY	1437	8	60.6	30	*****	82.	26	34.	2	176.5	*****	44.5	*****	3.610	30	*****	1.67	14								
CENTRAHOMA	1648	8	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	6.300	30	*****	1.70	14								
CHICKASAW NRA	1745	8	56.9	30	-4.7	88.	11	28.	2	263.0	118.0	20.5	-22.5	4.170	30	.58	1.45	14								
COLEMAN	2011	8	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	2.940	30	*****	1.35	4								
COMANCHE	2054	8	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	3.090	30	.11	1.25	14								
DAISY 4 ENE	2354	8	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	8.081	30	3.03	2.25	14								
DUNCAN	2660	8	57.8	30	-4.7	88.	13	33.	2	238.0	111.0	21.5	-30.5	2.750	30	-.24	1.17	14								
DURANT USDA	2678	8	58.0	30	-4.2	84.	20	31.	2	226.5	87.5	17.0	-38.0	4.210	30	-.03	1.43	29								
ELMORE CITY	2872	8	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	4.030	29	*****	1.85	14								
FARRIS 3 WNW	3083	8	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	7.140	30	2.77	2.00	9								
GRADY	3688	8	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	2.050	30	*****	.65	4								
HEALDTON	4001	8	60.4	30	-2.8	90.	24	29.	2	187.5	68.5	50.0	-15.0	3.920	30	.48	1.75	4								
HENNEPIN	4052	8	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	4.670	30	*****	2.22	14								
KETCHUM RANCH	4780	8	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	3.230	30	*****	1.20	4								
KINGSTON	4865	8	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	4.120	30	.24	1.28	4								
LEHIGH	5108	8	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	7.075	30	*****	2.30	14								
LINDSAY 2 W	5216	8	58.5	30	-3.9	86.	12	30.	2	219.5	82.5	25.5	-33.5	2.991	30	-.36	.83	14								
LOCO 6 SE	5247	8	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	2.590	30	*****	1.19	29								
MADILL	5468	8	60.7	30	-2.9	87.	10	31.	2	173.0	71.0	43.5	-16.5	3.630	30	-.37	1.10	13								
MARIETTA	5563	8	61.5	30	-2.0	89.	10	33.	2	155.5	52.5	52.0	-9.0	3.221	30	-.39	1.64	29								
MARLOW 1 WSW	5581	8	59.1	30	-3.2	88.	12	27.	2	210.0	77.0	32.0	-20.0	2.930	30	.01	1.46	14								
MCGEE CREEK DAM	5713	8	57.6	28	*****	86.	10	27.	22	220.0	*****	13.5	*****	5.050	30	*****	1.25	13								
PAULS VALLEY	6926	8	59.9	30	-3.3	87.	24	28.	2	189.5	67.5	36.5	-31.5	3.000	30	-.45	.90	14								
PONTOTOC	7214	8	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	3.670	30	-.15	1.45	13								
TISHOMINGO NWLR8884	8	58.8	24	*****	84.	19	33.	2	173.5	*****	25.5	*****	4.550	26	*****	1.79	5									
TUSSY	9032	8	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	3.710	30	*****	1.32	14								
WAURIKA	9395	8	61.6	30	-2.5	90.	12	33.	2	154.0	44.0	53.0	-30.0	1.951	30	-.99	1.30	29								
WAURIKA DAM	9399	8	57.3	25	*****	90.	13	34.	2	209.0	*****	17.5	*****	2.261	25	*****	.88	14								

**APRIL 1993 SUMMARY FOR SOUTHEAST DIVISION (CD9)**

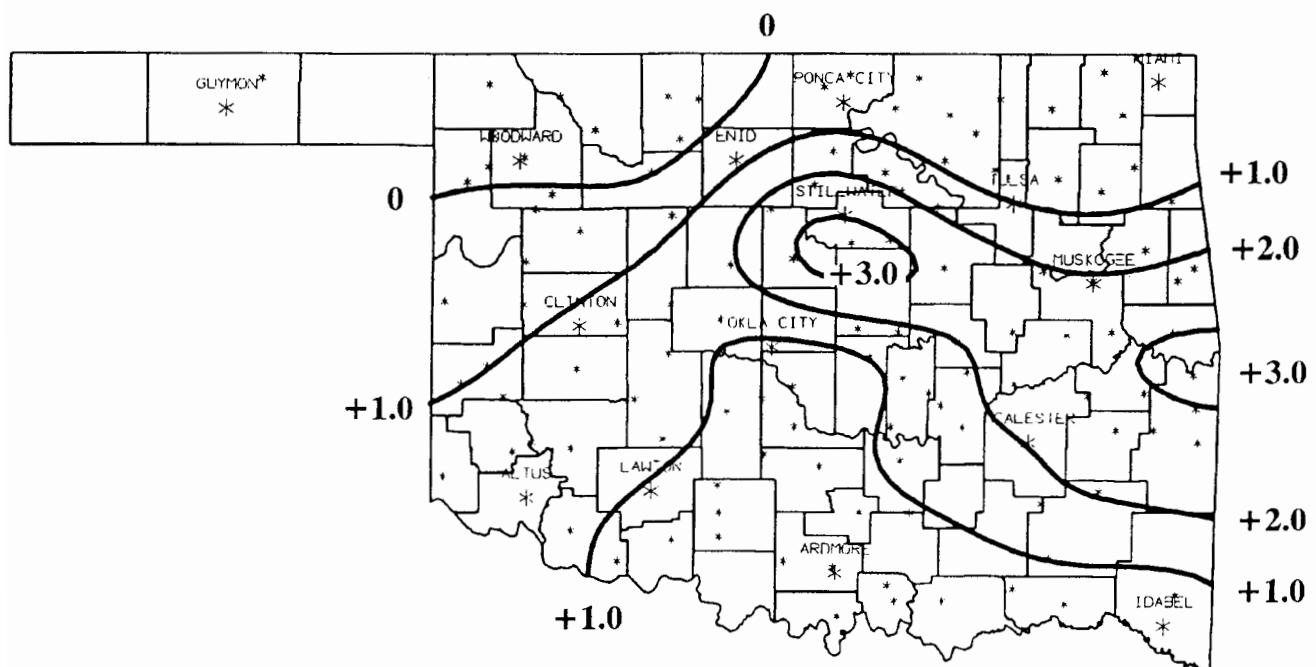
NAME	ID	CD	DEV				HEAT				COOL				DEV			
			MEAN	NUM	FROM	MAX	MIN	DEG	FROM	DEG	FROM	TOT	NUM	FROM	MAX	24-HR	DAY	
ANTLERS	256	9	59.3	30	-3.6	84.	10	33.	22	200.0	91.0	30.5	-15.5	5.360	30	1.04	2.11	14
BATTIEST 1 SSW	567	9	55.0	30	*****	79.	10	29.	22	307.0	*****	7.0	*****	7.030	30	*****	2.20	15
BEAR MT TWR	584	9	56.1	21	*****	84.	11	37.	16	203.5	*****	17.5	*****	4.361	25	*****	1.25	15
BENGAL	670	9	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	7.260	30	*****	2.37	15
BOSWELL 4 NNW	980	9	59.0	30	-3.8	83.	19	32.	2	208.5	93.5	29.5	-19.5	4.355	30	.45	1.45	29
BROKEN BOW 1 N	1162	9	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	4.210	30	-.30	1.04	29
BROKEN BOW DAM	1168	9	57.2	23	*****	85.	11	34.	21	186.0	*****	5.5	*****	4.870	30	.22	1.43	14
CARNASAW TWR	1499	9	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	5.040	30	.15	1.14	15
CARTER TWR	1544	9	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	4.010	30	-.67	1.26	15
FANSHAWE	3065	9	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	7.510	30	2.90	2.20	15
HEAVENER 1 SE	4008	9	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	7.360	30	2.89	2.30	15
HEE MT TWR	4017	9	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	6.440	30	1.71	1.64	15
HUGO	4384	9	60.8	30	-3.3	82.	11	35.	2	161.0	71.0	35.5	-27.5	4.332	30	.16	1.22	14
IDABEL	4451	9	57.9	30	-4.1	85.	11	34.	2	228.5	97.5	16.0	-25.0	6.322	30	1.90	1.57	20
POTEAU	7246	9	57.0	30	-5.9	84.	10	27.	2	248.0	135.0	7.5	-42.5	6.770	30	2.33	1.87	28
SMITHVILLE 1 W	8285	9	55.8	30	-4.8	89.	19	30.	16	290.5	132.5	16.0	-10.0	6.801	30	2.06	1.70	25
SPIRO	8416	9	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	8.760	30	4.40	2.23	29
TUSKAHOMA	9023	9	58.3	30	-4.6	83.	11	29.	2	227.0	108.0	27.0	-29.0	6.970	30	2.25	1.98	15
VALLIANT 3 W	9118	9	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	4.101	31	-.24	1.14	15
WILBURTON 9 ENE9634	9		57.8	30	-4.2	84.	10	27.	2	239.0	100.0	24.0	-25.0	5.872	30	1.17	1.74	14

**APRIL 1993 CLIMATE DIVISION SUMMARY**

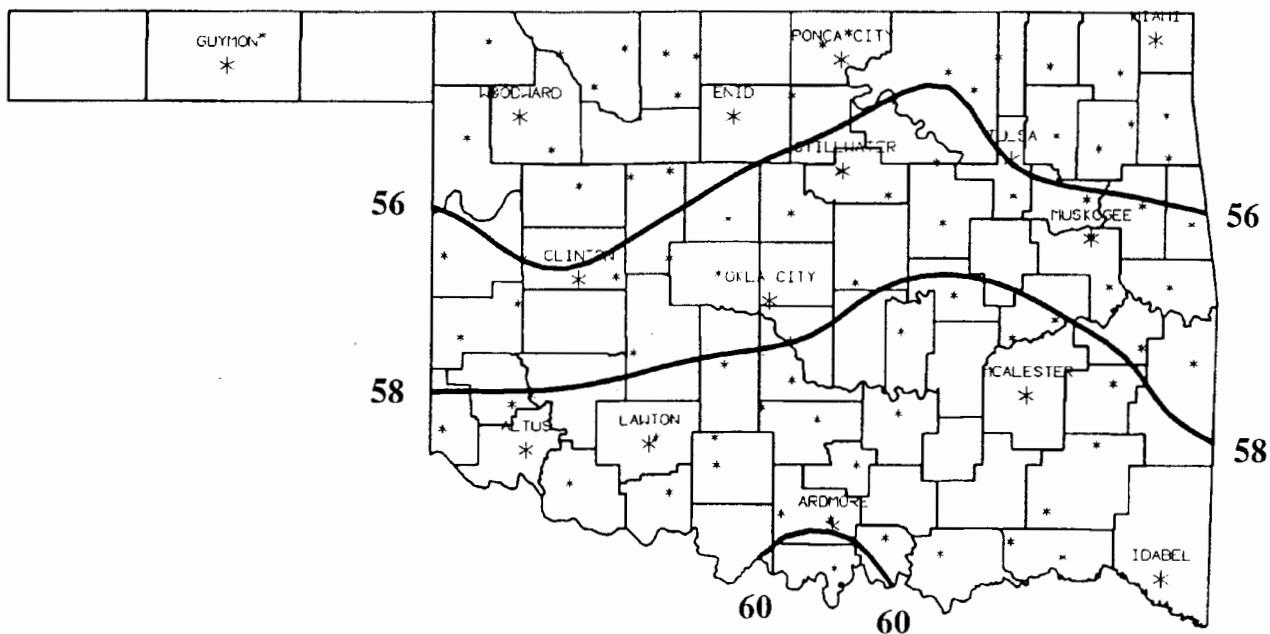
CLIMATE DIV	MEAN TEMP	NUM STA	DEV				HEAT				COOL				DEV			
			FROM	MAX	MIN	DEGREE	FROM	DEGREE	FROM	TOT	NUM	FROM	MAX	24-HR	DAY			
1	53.5	9	-2.9	91.0	19	25.0	2	350.7	71.4	8.3	-14.3	.91	12	-.68	1.10	29		
2	54.5	15	-4.6	90.0	24	23.0	2	319.5	106.5	4.6	-31.6	2.67	23	.10	3.19	30		
3	55.4	17	-4.9	85.0	10	24.0	2	295.4	117.5	10.7	-27.1	3.85	26	.34	1.97	29		
4	56.0	11	-3.8	90.0	23	28.0	2	277.8	82.0	9.7	-29.9	3.19	19	1.01	3.83	29		
5	57.7	15	-3.8	89.0	12	27.0	2	239.6	86.8	21.9	-28.0	4.68	36	1.48	5.50	29		
6	57.5	10	-4.2	87.0	19	23.0	2	251.4	108.4	25.7	-18.8	6.69	28	2.50	3.42	28		
7	58.6	9	-3.6	91.0	18	27.0	2	214.4	70.9	21.4	-36.2	3.69	20	1.41	4.08	29		
8	59.5	13	-3.4	90.0	13	27.0	22	199.8	77.2	35.4	-25.5	4.13	29	.43	4.08	14		
9	57.9	9	-4.6	89.0	19	27.0	2	234.4	112.3	21.4	-25.4	5.97	19	1.45	2.37	15		



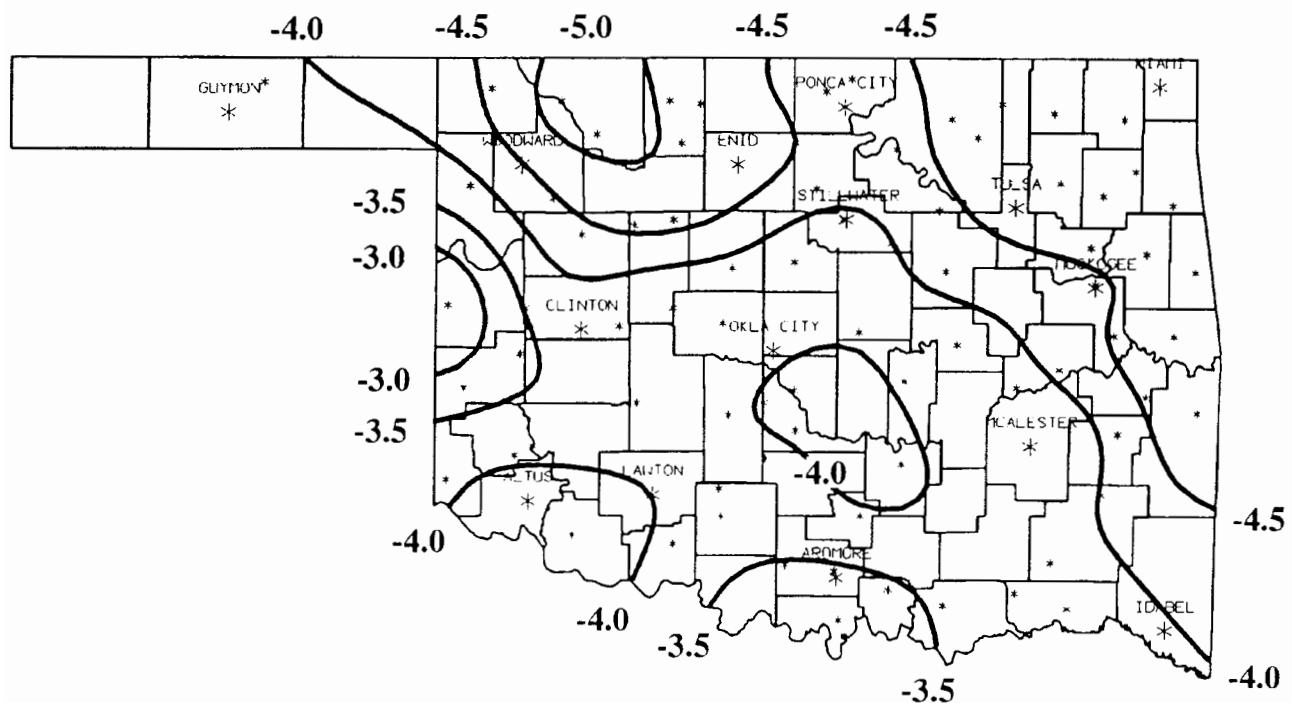
APRIL 1993 TOTAL PRECIPITATION  
(Inches)



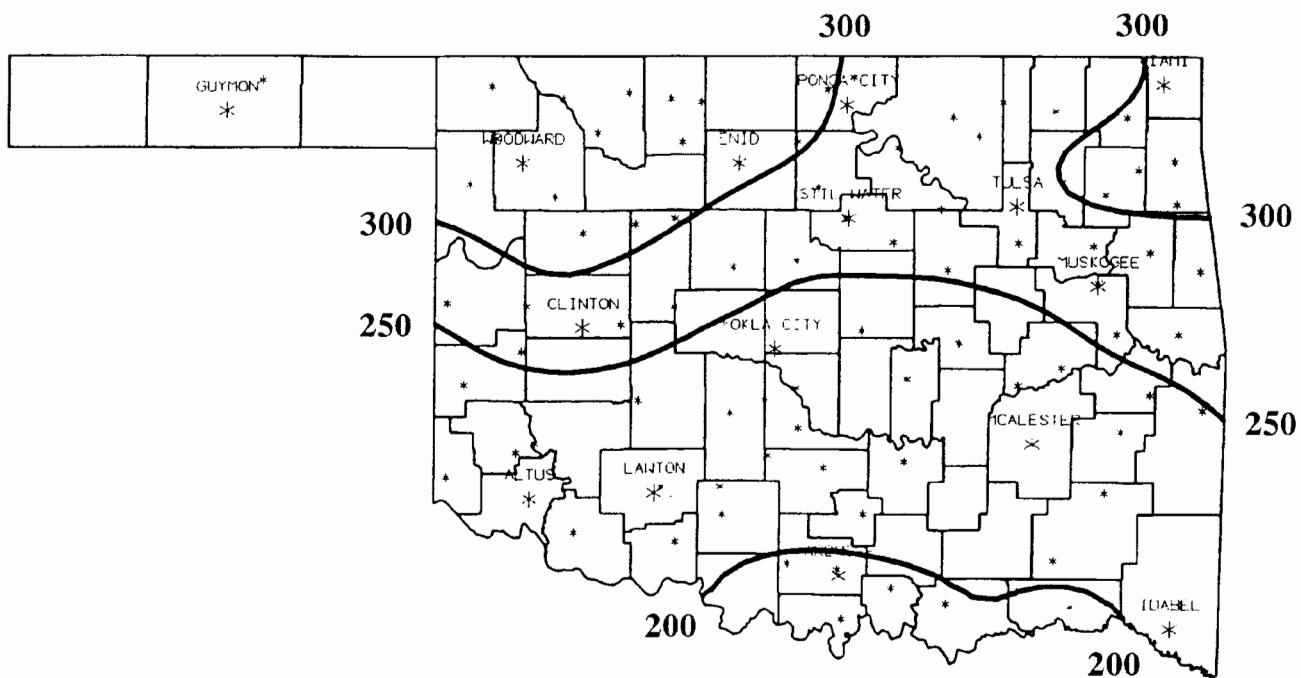
APRIL 1993 DEVIATION FROM NORMAL PRECIPITATION  
(Inches)



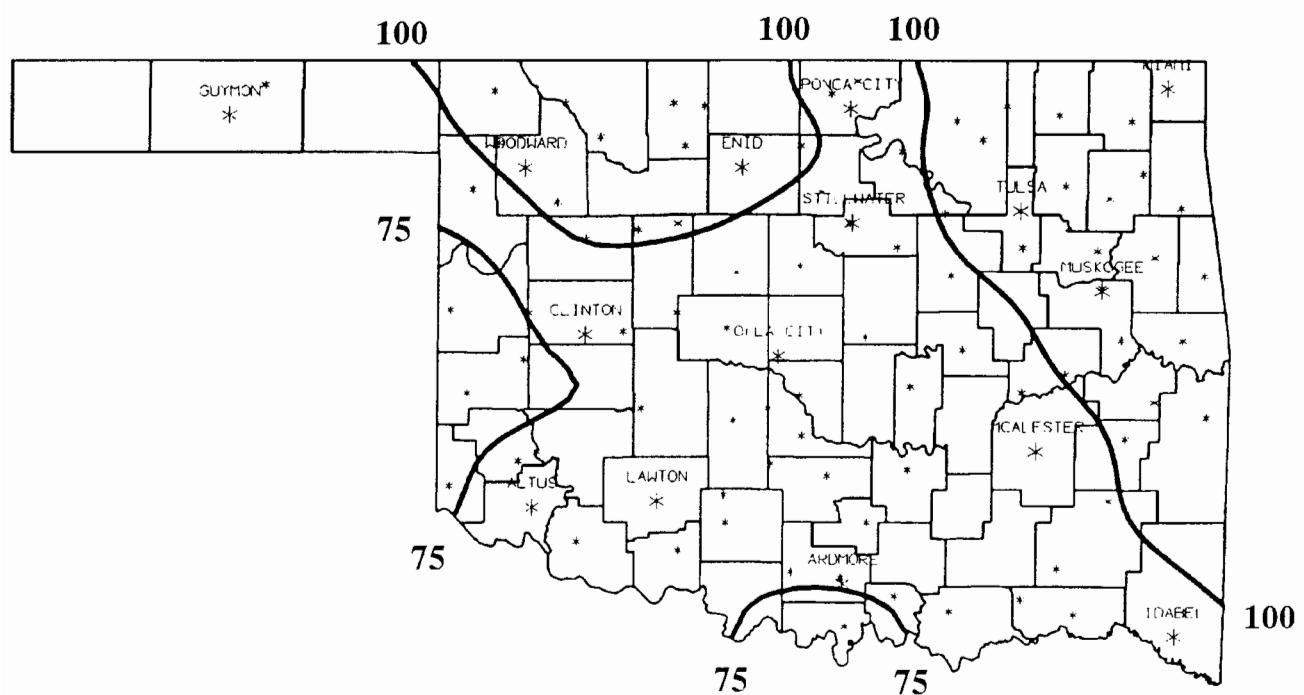
APRIL 1993 AVERAGE MONTHLY TEMPERATURES  
(Degrees F)



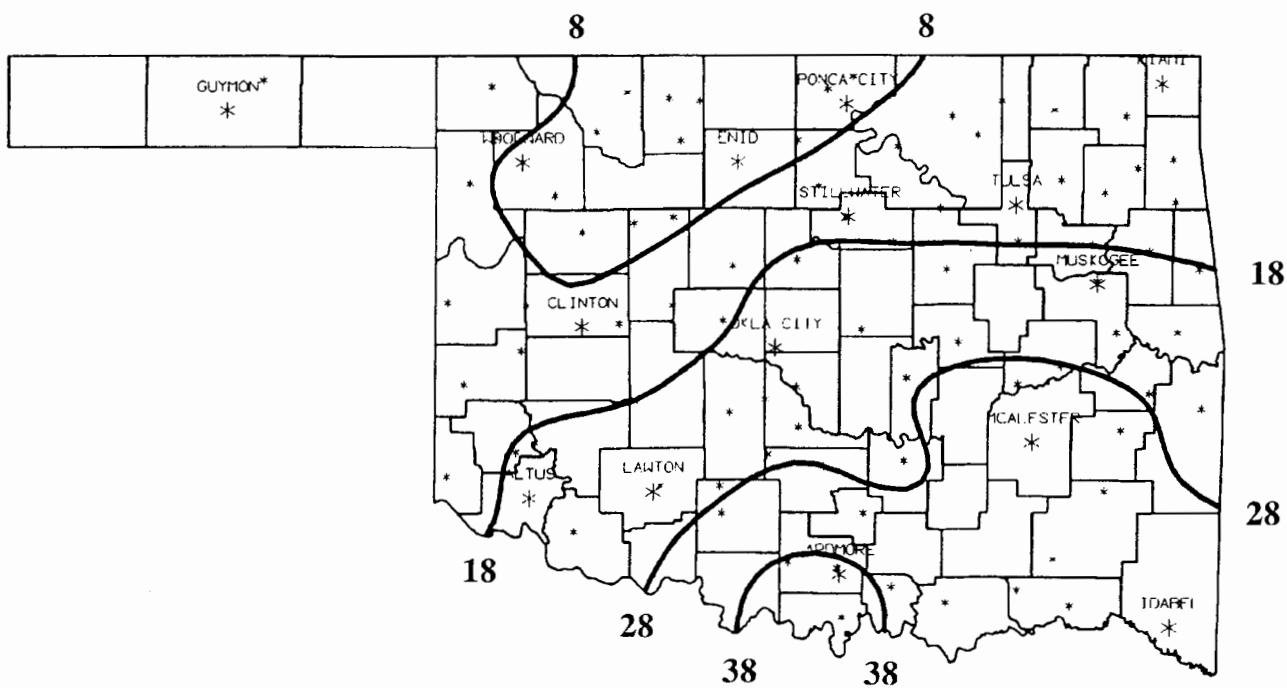
APRIL 1993 DEVIATION FROM NORMAL TEMPERATURES  
(Degrees F)



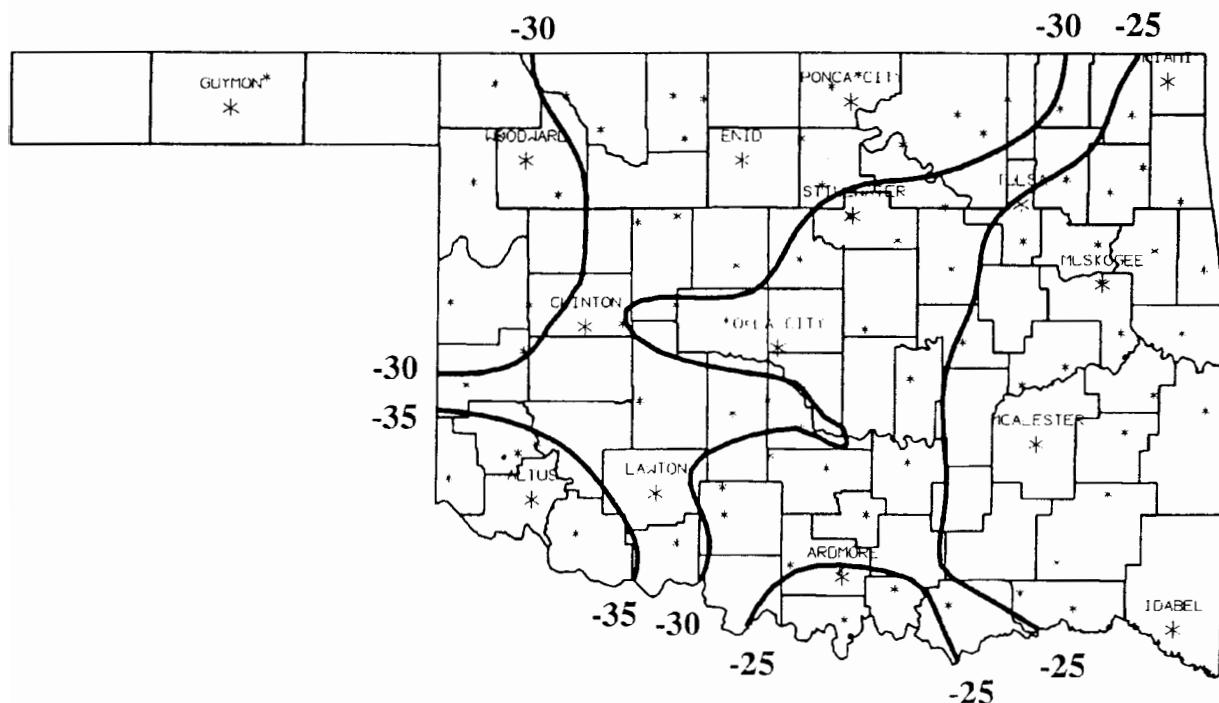
APRIL 1993 HEATING DEGREE DAYS



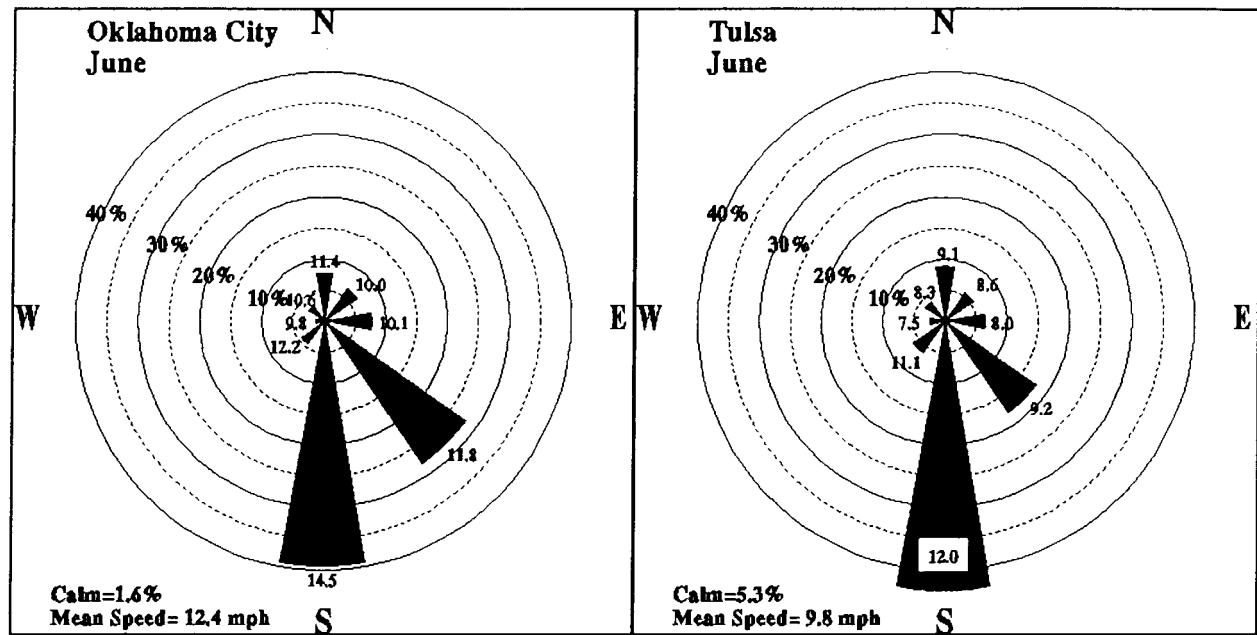
APRIL 1993 DEVIATION FROM NORMAL HEATING DEGREE DAYS



APRIL 1993 COOLING DEGREE DAYS



APRIL 1993 DEVIATION FROM NORMAL COOLING DEGREE DAYS



**June Wind Roses for Oklahoma City and Tulsa.** Percents represent the frequency of winds from each direction. The numbers at the ends of the bars indicate the average wind speed (miles per hour) from that direction.

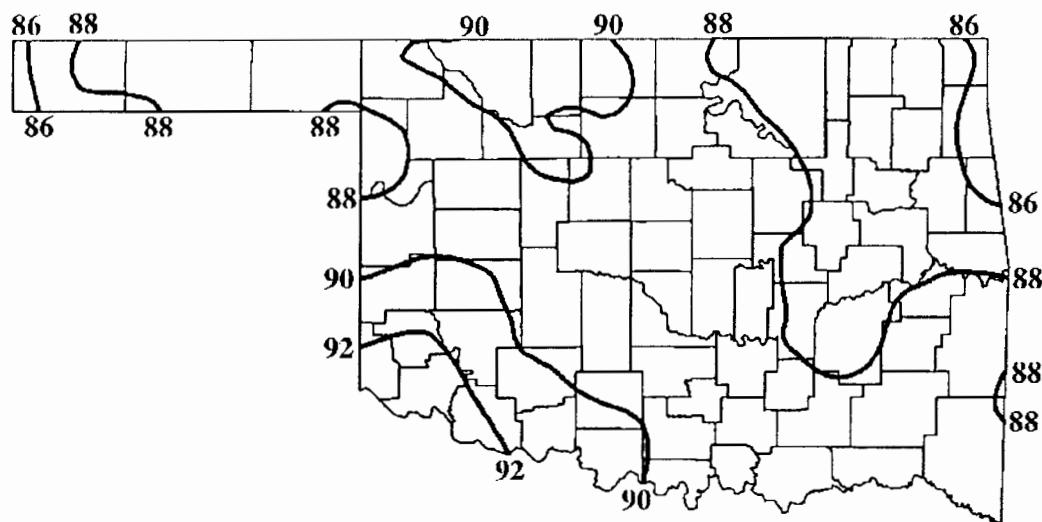
### JUNE 1993 SUNRISE AND SUNSET

#### OKLAHOMA CITY

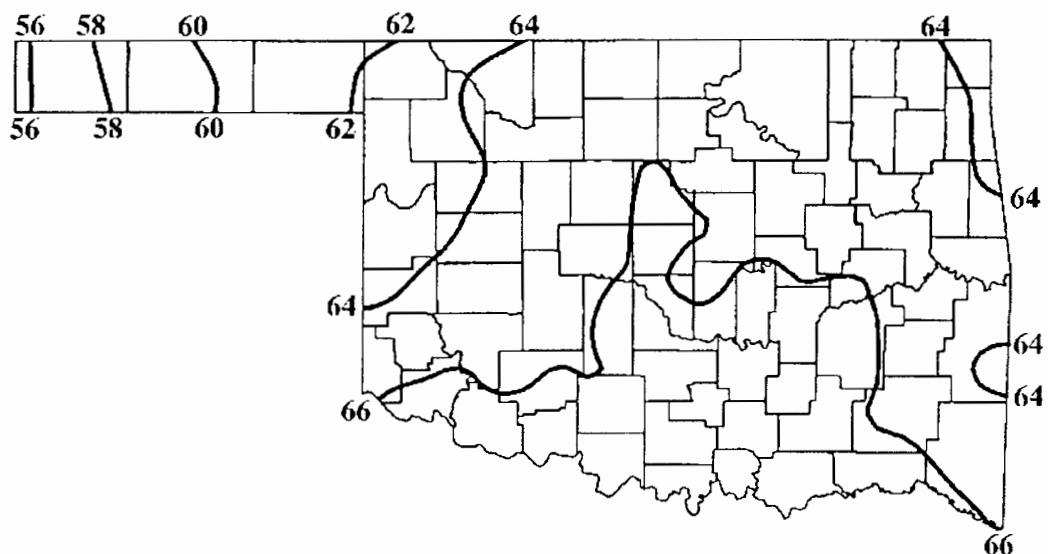
DATE	SUNRISE	SUNSET	DAYLIGHT
93 6 1	6:19AM	8:37PM CDT	14 hrs 19 mins
93 6 2	6:18AM	8:38PM CDT	14 hrs 19 mins
93 6 3	6:18AM	8:38PM CDT	14 hrs 20 mins
93 6 4	6:18AM	8:39PM CDT	14 hrs 21 mins
93 6 5	6:18AM	8:40PM CDT	14 hrs 22 mins
93 6 6	6:18AM	8:40PM CDT	14 hrs 23 mins
93 6 7	6:17AM	8:41PM CDT	14 hrs 23 mins
93 6 8	6:17AM	8:41PM CDT	14 hrs 24 mins
93 6 9	6:17AM	8:42PM CDT	14 hrs 24 mins
93 610	6:17AM	8:42PM CDT	14 hrs 25 mins
93 611	6:17AM	8:43PM CDT	14 hrs 26 mins
93 612	6:17AM	8:43PM CDT	14 hrs 26 mins
93 613	6:17AM	8:43PM CDT	14 hrs 26 mins
93 614	6:17AM	8:44PM CDT	14 hrs 27 mins
93 615	6:17AM	8:44PM CDT	14 hrs 27 mins
93 616	6:17AM	8:45PM CDT	14 hrs 28 mins
93 617	6:17AM	8:45PM CDT	14 hrs 28 mins
93 618	6:17AM	8:45PM CDT	14 hrs 28 mins
93 619	6:17AM	8:46PM CDT	14 hrs 28 mins
93 620	6:18AM	8:46PM CDT	14 hrs 28 mins
93 621	6:18AM	8:46PM CDT	14 hrs 28 mins
93 622	6:18AM	8:46PM CDT	14 hrs 28 mins
93 623	6:18AM	8:46PM CDT	14 hrs 28 mins
93 624	6:18AM	8:47PM CDT	14 hrs 28 mins
93 625	6:19AM	8:47PM CDT	14 hrs 28 mins
93 626	6:19AM	8:47PM CDT	14 hrs 28 mins
93 627	6:19AM	8:47PM CDT	14 hrs 28 mins
93 628	6:20AM	8:47PM CDT	14 hrs 28 mins
93 629	6:20AM	8:47PM CDT	14 hrs 27 mins
93 630	6:20AM	8:47PM CDT	14 hrs 27 mins

#### TULSA

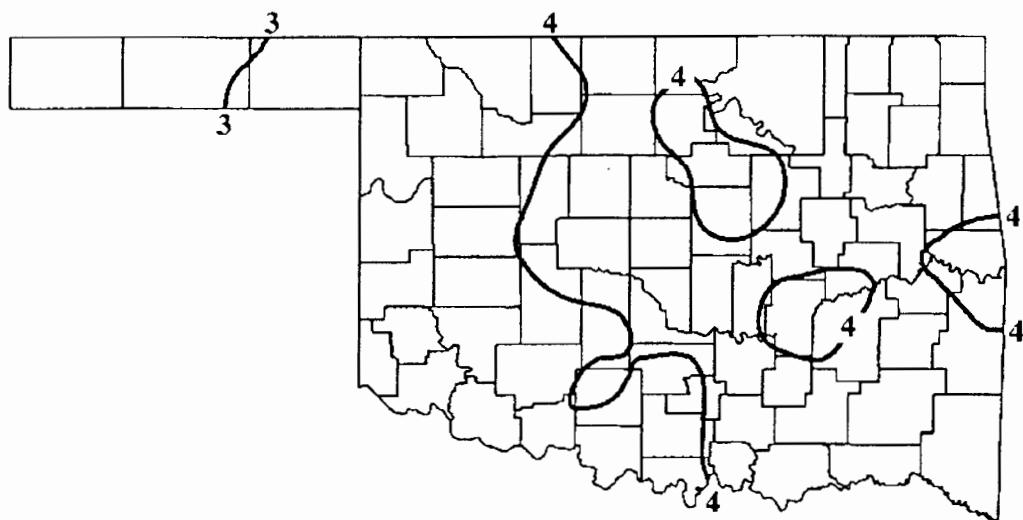
DATE	SUNRISE	SUNSET	DAYLIGHT
93 6 1	6:10AM	8:32PM CDT	14 hrs 23 mins
93 6 2	6:10AM	8:33PM CDT	14 hrs 23 mins
93 6 3	6:10AM	8:34PM CDT	14 hrs 24 mins
93 6 4	6:10AM	8:34PM CDT	14 hrs 25 mins
93 6 5	6:10AM	8:35PM CDT	14 hrs 26 mins
93 6 6	6:10AM	8:35PM CDT	14 hrs 27 mins
93 6 7	6:10AM	8:36PM CDT	14 hrs 27 mins
93 6 8	6:10AM	8:36PM CDT	14 hrs 28 mins
93 6 9	6:10AM	8:37PM CDT	14 hrs 29 mins
93 610	6:10AM	8:37PM CDT	14 hrs 29 mins
93 611	6:10AM	8:38PM CDT	14 hrs 30 mins
93 612	6:10AM	8:38PM CDT	14 hrs 30 mins
93 613	6:10AM	8:39PM CDT	14 hrs 31 mins
93 614	6:10AM	8:39PM CDT	14 hrs 31 mins
93 615	6:10AM	8:40PM CDT	14 hrs 31 mins
93 616	6:10AM	8:40PM CDT	14 hrs 32 mins
93 617	6:10AM	8:40PM CDT	14 hrs 32 mins
93 618	6:10AM	8:41PM CDT	14 hrs 32 mins
93 619	6:10AM	8:41PM CDT	14 hrs 32 mins
93 620	6:10AM	8:41PM CDT	14 hrs 33 mins
93 621	6:10AM	8:41PM CDT	14 hrs 33 mins
93 622	6:10AM	8:42PM CDT	14 hrs 33 mins
93 623	6:10AM	8:42PM CDT	14 hrs 33 mins
93 624	6:10AM	8:42PM CDT	14 hrs 33 mins
93 625	6:10AM	8:42PM CDT	14 hrs 32 mins
93 626	6:10AM	8:42PM CDT	14 hrs 32 mins
93 627	6:10AM	8:42PM CDT	14 hrs 32 mins
93 628	6:11AM	8:43PM CDT	14 hrs 32 mins
93 629	6:11AM	8:43PM CDT	14 hrs 32 mins
93 630	6:11AM	8:43PM CDT	14 hrs 31 mins



June Normal Daily Maximum Temperatures (°F)



June Normal Daily Minimum Temperatures (°F)



**June Normal Monthly Precipitation (inches)**

**90-DAY NATIONAL WEATHER SERVICE OUTLOOK**

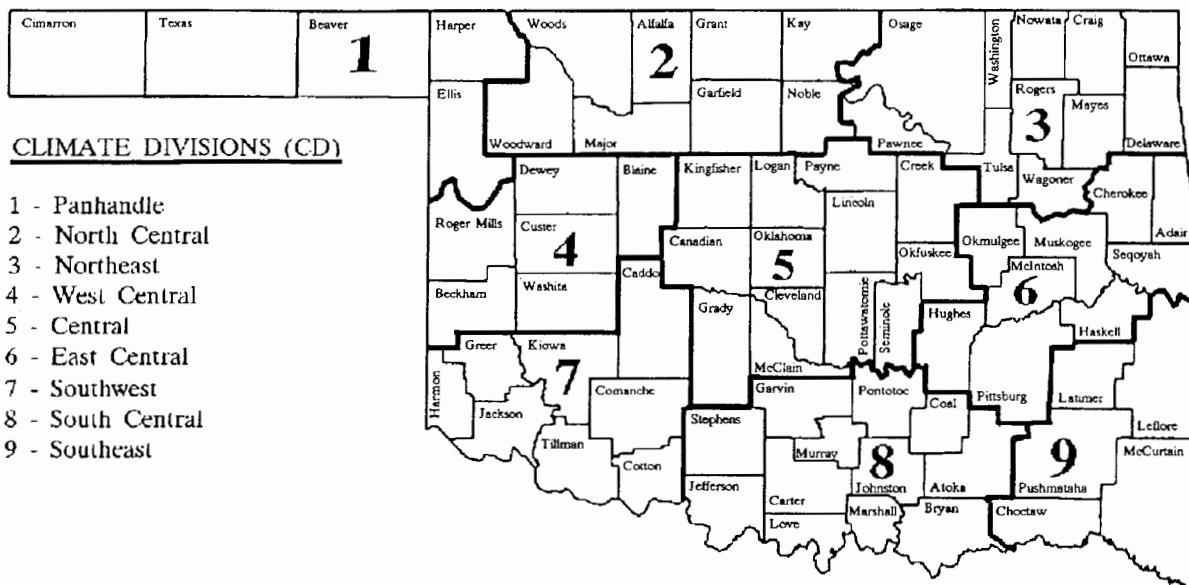
**(MAY 1993 - JULY 1993)**

**Precipitation - Above Normal in Panhandle  
and Southwest Half of State**

**Near Normal Elsewhere**

**Temperature - Below Normal Statewide**

## OKLAHOMA



### 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 the average temperature for the day exceeds 65 degrees. Daily values are summed to arrive at a monthly total. 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:

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

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 the average temperature for the day is less than 65 degrees. Daily values are summed to give a monthly total. 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.

## OKLAHOMA CITY CLIMATE CALENDAR

June 1993

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).

Normal 1 Actual		Normal 2 Actual		Normal 3 Actual		Normal 4 Actual		Normal 5 Actual		Normal 6 Actual		Normal 7 Actual	
Max	Min												
80.7	61.9	81.5	62.1	81.5	62.3	82.8	63.8	83.8	63.6	85.2	64.0	86.6	64.9
61.7	42.1	62.1	42.4	62.1	42.6	63.8	43.6	63.8	43.6	64.0	43.9	64.9	44.0
.25	1.0	.24	1.1	.24	1.2	Ppt	Ppt	Ppt	Ppt	Ppt	Ppt	Ppt	Ppt
0	7	Cdd	Cdd	Cdd	Cdd	Rdg	Rdg	Rdg	Rdg	Rdg	Rdg	Rdg	Rdg
Highest Max	99-1913	Highest Max	97-1910	Highest Max	96-1953	Highest Max	95-1913	Highest Max	96-1917	Highest Max	96-1911	Highest Max	100-1911
Lowest Max	58-1903	Lowest Max	56-1919	Lowest Max	64-1919	Lowest Max	62-1928	Lowest Max	65-1932	Lowest Max	69-1983	Lowest Max	66-1891
Lowest Min	48-1982	Lowest Min	6-1917	Lowest Min	49-1919	Lowest Min	47-1954	Lowest Min	48-1919	Lowest Min	52-1917	Lowest Min	51-1983
Highest Min	75-1943	Highest Min	74-1980	Highest Min	75-1925	Highest Min	75-1911	Highest Min	75-1930	Highest Min	75-1990	Highest Min	76-1980
Greatest ppt	3-37-1962	Greatest ppt	1-66-1973	Greatest ppt	6-75-1932	Greatest ppt	3-90-1904	Greatest ppt	1-48-1927	Greatest ppt	3-01-1941	Greatest ppt	1-44-1908
Normal 8 Actual		Normal 9 Actual		Normal 10 Actual		Normal 11 Actual		Normal 12 Actual		Normal 13 Actual		Normal 14 Actual	
Max	Min												
87.2	66.4	86.2	66.0	86.4	64.9	86.6	66.0	86.6	66.0	87.4	66.7	88.5	66.9
66.4	48.0	66.0	48.0	66.4	48.0	Ppt	Ppt	Ppt	Ppt	Ppt	Ppt	Ppt	Ppt
18	0	18	0	18	0	Rdg	Rdg	Rdg	Rdg	Rdg	Rdg	Rdg	Rdg
0	12	0	11	0	11	Cdd	Cdd	Cdd	Cdd	Cdd	Cdd	Cdd	Cdd
Highest Max	100-1988	Highest Max	100-1933	Highest Max	99-1934	Highest Max	100-1953	Highest Max	104-1953	Highest Max	101-1924	Highest Max	106-1953
Lowest Max	64-1913	Lowest Max	60-1913	Lowest Max	68-1955	Lowest Max	68-1988	Lowest Max	72-1903	Lowest Max	70-1927	Lowest Max	63-1927
Lowest Min	52-1915	Lowest Min	54-1974	Lowest Min	50-1955	Lowest Min	51-1955	Lowest Min	50-1888	Lowest Min	52-1906	Lowest Min	51-1947
Highest Min	76-1984	Highest Min	77-1953	Highest Min	78-1953	Highest Min	75-1953	Highest Min	78-1958	Highest Min	78-1958	Highest Min	78-1953
Greatest ppt	2-60-1974	Greatest ppt	2-38-1907	Greatest ppt	4-48-1945	Greatest ppt	1-61-1951	Greatest ppt	4-74-1944	Greatest ppt	4-58-1989	Greatest ppt	3-95-1930
Normal 15 Actual		Normal 16 Actual		Normal 17 Actual		Normal 18 Actual		Normal 19 Actual		Normal 20 Actual		Normal 21 Actual	
Max	Min												
87.8	66.5	86.7	66.3	87.9	66.5	88.8	67.8	89.4	67.8	89.8	67.6	89.8	68.4
66.5	40.0	66.3	40.0	66.5	40.0	Ppt	Ppt	Ppt	Ppt	Ppt	Ppt	Ppt	Ppt
40.0	12	0	12	0	12	Rdg	Rdg	Rdg	Rdg	Rdg	Rdg	Rdg	Rdg
Cdd		Cdd		Cdd		Cdd		Cdd		Cdd		Cdd	
Highest Max	105-1953	Highest Max	105-1911	Highest Max	102-1924	Highest Max	101-1936	Highest Max	101-1953	Highest Max	105-1953	Highest Max	104-1953
Lowest Max	71-1908	Lowest Max	70-1961	Lowest Max	69-1963	Lowest Max	68-1912	Lowest Max	70-1920	Lowest Max	73-1905	Lowest Max	59-1902
Lowest Min	55-1969	Lowest Min	56-1917	Lowest Min	53-1912	Lowest Min	53-1912	Lowest Min	55-1919	Lowest Min	51-1976	Lowest Min	56-1906
Highest Min	79-1953	Highest Min	77-1953	Highest Min	78-1980	Highest Min	78-1924	Highest Min	80-1933	Highest Min	77-1990	Highest Min	79-1953
Greatest ppt	3-01-1930	Greatest ppt	3-59-1955	Greatest ppt	1-85-1975	Greatest ppt	.93-1957	Greatest ppt	1-68-1987	Greatest ppt	2-28-1958	Greatest ppt	3-28-1948
Normal 22 Actual		Normal 23 Actual		Normal 24 Actual		Normal 25 Actual		Normal 26 Actual		Normal 27 Actual		Normal 28 Actual	
Max	Min												
90.0	68.2	88.3	67.8	88.4	68.3	88.7	68.3	89.5	68.3	91.0	68.3	91.3	68.9
68.2	41.6	67.8	42.0	68.3	41.4	Ppt	Ppt	Ppt	Ppt	Ppt	Ppt	Ppt	Ppt
41.6	14	0	13	0	13	Rdg	Rdg	Rdg	Rdg	Rdg	Rdg	Rdg	Rdg
Cdd		Cdd		Cdd		Cdd		Cdd		Cdd		Cdd	
Highest Max	107-1936	Highest Max	101-1934	Highest Max	104-1911	Highest Max	105-1980	Highest Max	104-1918	Highest Max	103-1980	Highest Max	105-1980
Lowest Max	73-1912	Lowest Max	68-1921	Lowest Max	74-1909	Lowest Max	68-1987	Lowest Max	69-1904	Lowest Max	75-1904	Lowest Max	78-1923
Lowest Min	50-1902	Lowest Min	58-1958	Lowest Min	54-1957	Lowest Min	51-1974	Lowest Min	50-1938	Lowest Min	52-1974	Lowest Min	56-1974
Highest Min	79-1936	Highest Min	77-1934	Highest Min	78-1953	Highest Min	82-1911	Highest Min	81-1933	Highest Min	79-1947	Highest Min	78-1986
Greatest ppt	2-38-1957	Greatest ppt	2-79-1908	Greatest ppt	2-06-1948	Greatest ppt	2-20-1950	Greatest ppt	1-70-1985	Greatest ppt	2-19-1907	Greatest ppt	3-10-1988
Normal 29 Actual		Normal 30 Actual		Normal 31 Actual		Normal 32 Actual		Normal 33 Actual		Normal 34 Actual		Normal 35 Actual	
Max	Min												
91.8	69.7	91.8	69.7	91.8	69.7	92.0	69.7	92.1	69.7	91.0	68.3	91.3	68.9
69.7	0.6	69.7	0.6	69.7	0.6	Ppt	Ppt	Ppt	Ppt	Ppt	Ppt	Ppt	Ppt
0	16	0	16	0	16	Rdg	Rdg	Rdg	Rdg	Rdg	Rdg	Rdg	Rdg
Cdd		Cdd		Cdd		Cdd		Cdd		Cdd		Cdd	
Highest Max	103-1925	Highest Max	76-1908	Highest Max	54-1923	Highest Max	58-1923	Highest Max	58-1923	Highest Max	58-1980	Highest Max	58-1981
Lowest Max	54-1923	Lowest Max	54-1947	Lowest Max	58-1947	Lowest Max	58-1947	Lowest Max	58-1947	Lowest Max	58-1986	Lowest Max	58-1986
Lowest Min	50-1902	Lowest Min	50-1936										
Highest Min	79-1936												
Greatest ppt	2-00-1987	Greatest ppt	2-38-1957	Greatest ppt	2-79-1908	Greatest ppt	2-06-1948	Greatest ppt	2-20-1950	Greatest ppt	2-19-1907	Greatest ppt	3-10-1988

TULSA CLIMATE CALENDAR

June 1993

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 1948-1992.

-21-

Normal 1 Actual		Normal 2 Actual		Normal 3 Actual		Normal 4 Actual		Normal 5 Actual		Normal 6 Actual		Normal 7 Actual				
82.0 max	81.0 min	82.0 max	82.0 min	84.0 max	84.0 min	84.0 max	84.0 min	86.0 max	86.0 min	87.0 max	87.0 min	87.0 max	87.0 min			
62.0 Ppt	63.0 Ppt	63.0 Ppt	63.0 Ppt	64.0 Ppt	64.0 Ppt	65.0 Ppt	65.0 Ppt	65.0 Ppt	65.0 Ppt	66.0 Ppt	66.0 Ppt	66.0 Ppt	66.0 Ppt			
.21 Rdd	.18 Cdd	.13 Rdd	.13 Cdd	.16 Rdd	.16 Cdd	.24 Rdd	.24 Cdd	.20 Rdd	.20 Cdd	.15 Rdd	.15 Cdd	.15 Rdd	.15 Cdd			
7 Rdd	8 Cdd	8 Rdd	8 Cdd	10 Rdd	10 Cdd	10 Rdd	10 Cdd	10 Rdd	10 Cdd	11 Rdd	11 Cdd	12 Rdd	12 Cdd			
Highest Max 98-1934	Highest Max 102-1911	Highest Max 101-1911	Highest Max 58-1970	Highest Max 52-1946	Highest Max 73-1985	Highest Max 102-1911	Highest Max 71-1982	Highest Max 49-1954	Highest Min 75-1980	Highest Min 78-1980	Highest Min 78-1980	Highest Min 77-1990	Highest Min 79-1980			
Lowest Max 71-1957	Lowest Max 61-1970	Lowest Max 49-1907	Lowest Min 76-1980	Lowest Min 77-1980	Greatest ppt 2.83-1963	Greatest ppt 2.14-1973	Greatest ppt 1.67-1982	Greatest ppt 2.87-1985	Greatest ppt 3.11-1952	Greatest ppt 2.65-1974	Greatest ppt 2.65-1985	Greatest ppt 2.65-1986	Greatest ppt 1.25-1966			
Normal 8 Actual	Normal 9 Actual	Normal 10 Actual	Normal 11 Actual	Normal 12 Actual	Normal 13 Actual	Normal 14 Actual	Normal 15 Actual	Normal 16 Actual	Normal 17 Actual	Normal 18 Actual	Normal 19 Actual	Normal 20 Actual	Normal 21 Actual			
88.0 max	87.0 min	87.0 max	88.0 min	88.0 max	88.0 min	88.0 max	88.0 min	90.0 max	90.0 min	90.0 max	90.0 min	90.0 max	90.0 min			
68.0 Ppt	67.0 Ppt															
.21 Rdd	.12 Cdd	.12 Rdd	.12 Cdd	.10 Rdd	.10 Cdd	.15 Rdd	.15 Cdd	.13 Rdd	.13 Cdd	.11 Rdd	.11 Cdd	.07 Rdd	.07 Cdd			
13 Rdd	12 Cdd	12 Rdd	12 Cdd	10 Rdd	10 Cdd	13 Rdd	13 Cdd	13 Rdd	13 Cdd	13 Rdd	13 Cdd	14 Rdd	14 Cdd			
Highest Max 104-1911	Highest Max 105-1911	Highest Max 108-1911	Highest Max 70-1955	Highest Max 68-1969	Highest Max 68-1969	Highest Max 70-1955	Highest Max 70-1955	Highest Max 75-1975	Highest Max 75-1985							
Lowest Max 75-1971	Lowest Max 52-1915	Lowest Max 56-1978	Lowest Min 79-1981	Lowest Min 75-1953	Greatest ppt 2.84-1979	Greatest ppt 1.22-1950	Greatest ppt 1.27-1950	Greatest ppt 51-1955	Greatest ppt 77-1984	Greatest ppt 77-1984	Greatest ppt 77-1984	Greatest ppt 50-1913	Greatest ppt 52-1985			
Lowest Min 79-1984	Highest Min 77-1980	Greatest ppt 4.00-1974	Greatest ppt 2.84-1979	Greatest ppt 1.22-1950	Greatest ppt 3.97-1980	Greatest ppt 89-1958	Greatest ppt 1.27-1950	Greatest ppt 1.50-1978	Greatest ppt 2.07-1967	Greatest ppt 1.20-1965						
Normal 15 Actual	Normal 16 Actual	Normal 17 Actual	Normal 18 Actual	Normal 19 Actual	Normal 20 Actual	Normal 21 Actual	Normal 22 Actual	Normal 23 Actual	Normal 24 Actual	Normal 25 Actual	Normal 26 Actual	Normal 27 Actual	Normal 28 Actual			
89.0 max	87.0 min	88.0 max	89.0 min	89.0 max	89.0 min	89.0 max	90.0 max	88.0 min	89.0 max	90.0 min	91.0 max	91.0 min	91.0 max	91.0 min		
68.0 Ppt	67.0 Ppt	67.0 Ppt	67.0 Ppt	69.0 Ppt	69.0 Ppt	69.0 Ppt	70.0 max	69.0 min	70.0 max	70.0 min	70.0 max	70.0 min	70.0 max	70.0 min		
.19 Rdd	.08 Cdd	.08 Rdd	.08 Cdd	.10 Rdd	.10 Cdd	.10 Rdd	.10 Cdd	.06 Rdd	.06 Cdd	.06 Rdd	.06 Cdd	.07 Rdd	.07 Cdd	.17 Rdd	.17 Cdd	
13 Rdd	12 Cdd	12 Rdd	12 Cdd	13 Rdd	13 Cdd	13 Rdd	13 Cdd	15 Rdd	15 Cdd	15 Rdd	15 Cdd	15 Rdd	15 Cdd	16 Rdd	16 Cdd	
Highest Max 102-1924	Highest Max 106-1911	Highest Max 72-1980	Highest Max 78-1976	Highest Max 104-1918	Highest Max 104-1918	Highest Max 106-1918	Highest Max 72-1980	Highest Max 52-1980	Highest Max 54-1912	Highest Max 51-1912	Highest Max 78-1973	Highest Max 77-1961	Highest Max 107-1918	Highest Max 74-1978	Highest Max 107-1936	
Lowest Max 71-1961	Lowest Max 50-1917	Lowest Min 78-1953	Lowest Min 79-1990	Lowest Min 80-1953	Greatest ppt 89-1958	Greatest ppt 3.97-1980	Greatest ppt 79-1990	Greatest ppt 79-1990	Greatest ppt 80-1953							
Lowest Min 52-1933	Highest Min 77-1980	Greatest ppt 2.66-1981	Greatest ppt 1.67-1985	Greatest ppt 1.27-1950	Greatest ppt 3.97-1980	Greatest ppt 89-1958	Greatest ppt 1.27-1950	Greatest ppt 1.50-1978	Greatest ppt 1.20-1965							
Normal 29 Actual	Normal 30 Actual	Normal 31 Actual	Normal 32 Actual	Normal 33 Actual	Normal 34 Actual	Normal 35 Actual	Normal 36 Actual	Normal 37 Actual	Normal 38 Actual	Normal 39 Actual	Normal 40 Actual	Normal 41 Actual	Normal 42 Actual			
92.0 max	88.0 min	89.0 max	89.0 min	89.0 max	89.0 min	89.0 max	89.0 min	90.0 max	90.0 min	90.0 max	90.0 min	91.0 max	91.0 min	91.0 max	91.0 min	
71.0 Ppt	69.0 Ppt	70.0 Ppt														
.14 Rdd	.14 Cdd	.17 Rdd	.17 Cdd													
15 Rdd	14 Cdd	14 Rdd	14 Cdd	14 Rdd	14 Cdd	14 Rdd	14 Cdd	15 Rdd	15 Cdd	15 Rdd	15 Cdd	15 Rdd	15 Cdd	16 Rdd	16 Cdd	
Highest Max 106-1936	Highest Max 69-1948	Highest Max 57-1920	Highest Max 77-1950	Highest Max 80-1980	Highest Min 77-1950	Highest Min 77-1950	Highest Min 77-1950	Highest Min 80-1980	Highest Min 1.12-1968							
Lowest Max 56-1935	Lowest Min 77-1984	Greatest ppt 1.67-1985	Greatest ppt 2.65-1948	Greatest ppt 1.27-1950												
Lowest Min 80-1980	Highest Min 77-1980	Greatest ppt 1.67-1985	Greatest ppt 2.65-1948	Greatest ppt 1.27-1950												
Highest Min 80-1980	Greatest ppt 1.67-1985	Greatest ppt 2.65-1948	Greatest ppt 1.27-1950													
Greatest ppt 1.97-1992																

JUNE AVERAGES

TEMPERATURE	:	77.7°F
PRECIPITATION	:	4.53"
HEATING DEGREE DAYS	:	0
COOLING DEGREE DAYS	:	391