

# OKLAHOMA MONTHLY SUMMARY APRIL 1996

## TABLE OF CONTENTS

April 1996 Oklahoma Summary.....	2
Table of April 1995/1996 Comparisons.....	5
April 1996 Data Summary Tables.....	6
April 1996 Mesonet Summary.....	11
April 1996 State Map Summary.....	12
June Climatological Normals.....	15
90-Day National Weather Service Outlook.....	16
June 1996 Wind Roses.....	17
Explanation of Tables and Maps.....	18
June 1996 Oklahoma City Climate Calendar.....	20
June 1996 Tulsa Climate Calendar.....	21
1997 <i>TWISTER</i> Calendar Order Form.....	22

## MONTHLY SUMMARY FOR APRIL 1996

Locally heavy rains brought needed moisture to many parts of Oklahoma during April, but dry conditions continued through the end of the month in western parts of the state. The statewide averaged precipitation for the month totaled 2.09 inches, one inch below normal, to rank as the 21st lowest April precipitation since 1892. Precipitation since the first of the year totals 5.07 inches, 3.83 inches less than normal, ranking this as the state's 8th driest January through April period. Since October 1, 1995, the average reporting station in the state has received 8.58 inches of precipitation, the 3rd lowest October through April precipitation.

Development of the wheat crop was retarded by continued extremely dry weather in west central, northwestern and north central Oklahoma. Although precipitation in all parts of the state has been far below normal over the past seven months, the particular need for autumn and spring precipitation in the winter wheat area has made the current dry period especially apparent in those regions. West central Oklahoma experienced its least April precipitation since such regional precipitation compilations began in 1895. Northwestern Oklahoma (the Panhandle and the two bordering counties) and west central Oklahoma experienced their driest first four months of the year in 1996. Since October 1, precipitation accumulations in the state's north central, northeastern and west central climate divisions are the lowest recorded in those regions. Northwestern and southwestern Oklahoma each suffered through its second driest October through April. Only east central Oklahoma, whose October to April precipitation total ranked as its 15th driest period, missed a "bottom 10" precipitation total during those seven months.

The statewide average temperature during April was 59.4 degrees, 1.3 degrees lower than normal and the 41st coolest in Oklahoma's history. The year-to-date average temperature of 46.3 degrees is 1.1 degrees lower than normal, ranking this as the 31st coolest first four months of the year over the 105 year statewide period of record.

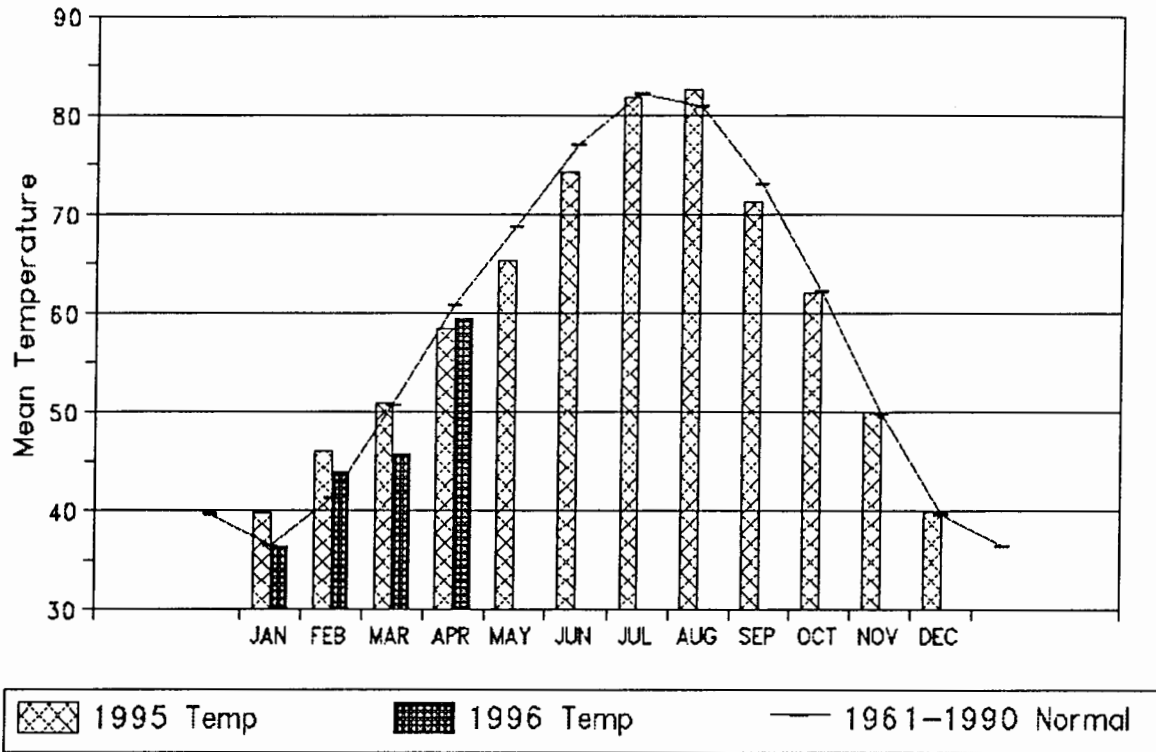
Only four significant weather-producing systems made their way through the state during the month, although cold fronts that exchanged dry, warm air for cooler drier air were more common. The coldest air brought Freedom (Woods County) a 14 degree low temperature on the 6th. The highest temperature reported was 100 degrees at Hollis (Harmon) on the 24th. Thunderstorms on the third brought useful precipitation to the southeastern half of the state, including 1.42 inches at Ashland (Pittsburg) and 1.40 inches at Stella (Cleveland), but also produced reports of hail, including two-inch hailstones in Jefferson County, and damaging winds. Significant rains fell in the south and east on the 12th and 13th, including a reported 2.82 inches at Battiest (McCurtain) and 2.70 inches at both Daisy (Atoka) and Smithville (McCurtain).

Intense thunderstorms developed in southwestern and central Oklahoma on the 21st, producing baseball-sized hail at Bethany (Oklahoma County) and tennis-ball sized hail in parts of Murray, Stephens and Payne counties and reports of large hail extended northeastward into Ottawa County. Tornadoes were reported at McAlester (Pittsburg) and in rural areas of Carter, Murray and Noble counties. Locally heavy downpours caused local flooding in Pittsburg, Haskell, Latimer and LeFlore counties. Allen (Pontotoc) reported 5.50 inches of precipitation, Ashland (Pittsburg) noted 5.25 inches and several other stations reported between three and five inches of rainfall.

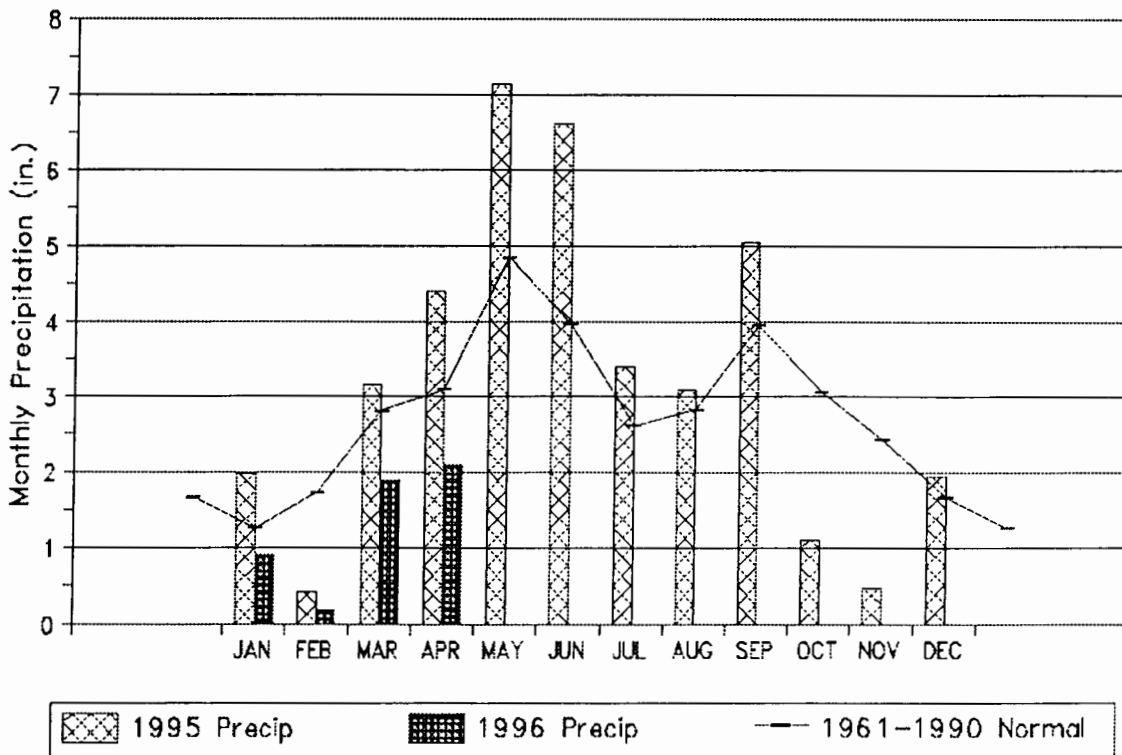
A final round of thunderstorms on the 28th produced rainfall amounts of as much as 1.98 inches at Wann (Nowata) and 1.90 inches at Hollow (Craig). Hail as large as 4.5 inches in diameter (Peckham in Kay County) and winds as strong as 100 miles per hour (Picher and Cardin in Ottawa County) were reported.

Howard L. Johnson

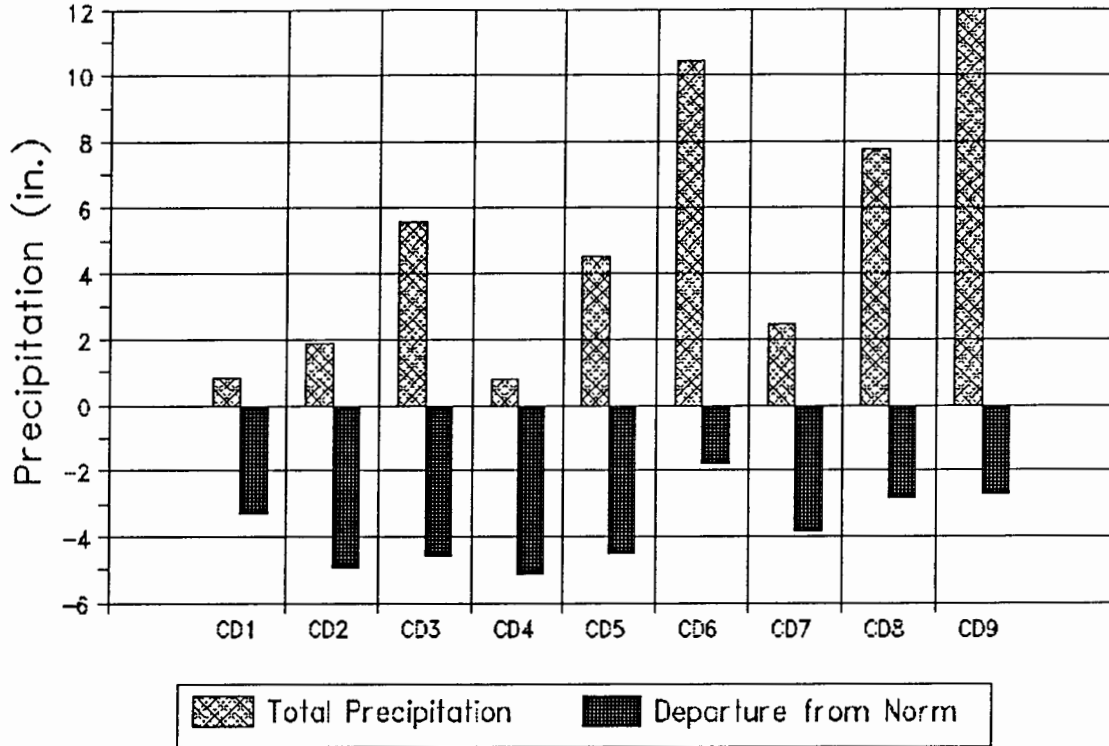
### 1995 and 1996 STATEWIDE TEMPERATURES Monthly Averages



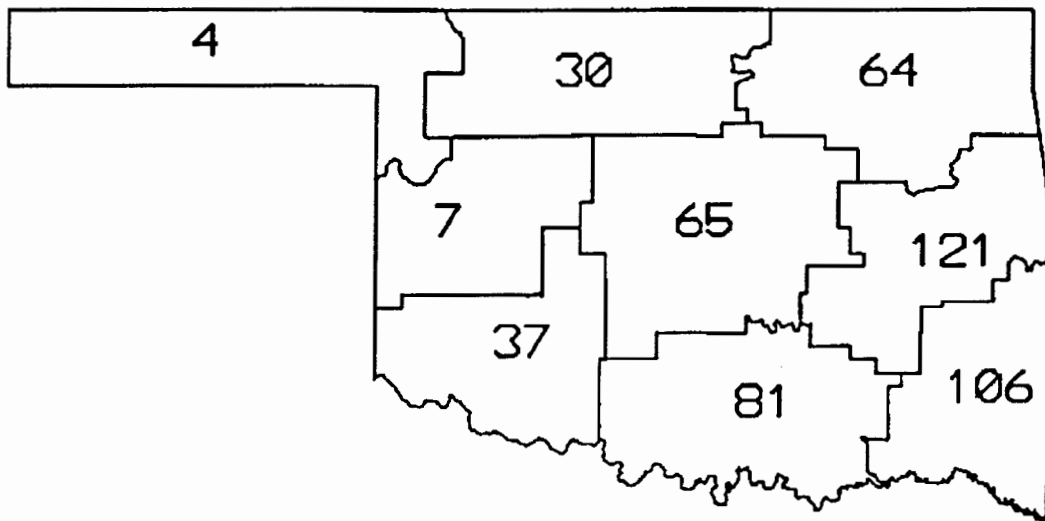
### 1995 and 1996 STATEWIDE PRECIPITATION Monthly Totals



### CD Averaged Precipitation January through April 1996



### CD PERCENT OF NORMAL PRECIPITATION



APRIL 1996

EXTREME VALUES OF TEMPERATURE AND PRECIPITATION IN EACH CLIMATE DIVISION  
APRIL 1996

CD	MAX			MIN			24-HOUR			MONTHLY	
	TEMP	DATE	LOCATION	TEMP	DATE	LOCATION	PRECIP	DATE	LOCATION	PRECIP	LOCATION
1	96	25	BEAVER	18	6	GAGE	.30	4	BOISE CITY	.35	REGNIER
	96	24	BUFFALO				.30	14	BUFFALO		
							.30	5	REGNIER		
2	97	25	FT SUPPLY DAM	14	6	FREEDOM	2.20	22	BILLINGS	2.83	VANCE AFB
3	91	20	BIXBY	22	6	BARNSDALL	2.62	22	LENAPAH	4.91	WANN
				22	1	HULAH DAM					
				22	6	VINITA					
4	99	24	ERICK	21	6	HAMMON	.64	22	GEARY	.64	GEARY
				21	30	TALOGA					
5	91	19	OKEMAH	23	6	GUTHRIE	3.40	21	KONAWA	4.30	KONAWA
6	90	19	MCCURTAIN	28	6	OKMULGEE	5.25	22	ASHLAND	8.34	HARTSHORNE
	90	19	MUSKOGEE	28	1	STILWELL					
	90	20	MUSKOGEE	28	7	STILWELL					
	90	20	OKMULGEE								
7	100	24	HOLLIS	25	6	ALTUS DAM	3.00	22	WALTERS	3.60	WALTERS
8	92	19	MARIETTA	21	1	ATOKA DAM	5.50	22	ALLEN	6.90	ALLEN
9	89	20	PINE CREEK	24	7	SMITHVILLE	4.44	22	BENGAL	8.12	BENGAL
				24	1	ZOE					

TABLE OF 1995/1996 COMPARISONS

Station	APRIL Temperature (°F)		APRIL Precipitation (in.)	
	1995	1996	1995	1996
Arnett	51.7	54.7	0.91	trace
Mutual	52.8	55.5	2.07	0.00
Tulsa	59.0	61.1	5.49	1.96
Oklahoma City	56.8	58.7	3.76	2.00
McAlester	62.0	60.8	3.40	4.52
Ada	59.9	59.1	5.56	6.22
Hugo	65.1	63.0	4.68	2.41

Variable	EXTREMES			
	Station	Division	Observation	Date
Minimum temperature (°F)	Freedom	2	14	6
Maximum temperature (°F)	Hollis	7	100	24
Maximum 24-hour precipitation	Allen	8	5.50"	22

**APRIL 1996 SUMMARY FOR NORTHWEST DIVISION (CD1)**

NAME	ID	CD	DEV						HEAT		DEV		COOL		DEV		TOT	NUM	FROM	MAX	24-HR	DAY
			MEAN	NUM	FROM	MAX	MIN	DAY	DEG	FROM	DEG	FROM	DEG	FROM	PPT	OBS						
ARNETT	332	1	54.7	30	-2.4	95.	25	26.	6	324.5	64.5	15.0	-8.0	.003	30	-1.78	.00	29				
BEAVER	593	1	55.3	30	-.5	96.	25	24.	6	307.0	13.0	17.0	-1.0	.001	30	-1.55	.00	14				
BOISE CITY 2 E	908	1	56.0	30	.8	92.	24	26.	6	281.5	-24.5	12.5	.5	.302	30	-.88	.30	4				
BUFFALO	1243	1	59.9	30	.2	96.	24	22.	6	212.5	4.5	59.0	10.0	.300	30	-2.05	.30	14				
FARGO	3070	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.004	30	-2.01	.00	29				
GAGE FAA APT	3407	1	56.7	30	-2.0	95.	24	18.	6	282.0	61.0	33.5	1.5	.012	30	-1.86	.01	28				
GATE	3489	1	57.1	29	-.1	95.	25	26.	6	281.5	-2.5	31.5	1.5	.021	29	*****	.02	14				
GOODWELL RES ST	3628	1	56.0	30	1.5	95.	25	19.	2	289.5	-37.5	21.0	9.0	.000	30	-1.23	.00	30				
GUYMON	3835	1	57.0	30	*****	95.	24	25.	1	256.5	*****	18.0	*****	.001	30	*****	.00	7				
HOOKER	4298	1	55.0	30	-1.4	95.	25	29.	15	315.0	38.0	16.5	-2.5	.021	30	-1.36	.02	14				
KENTON	4766	1	55.8	30	2.4	90.	24	28.	30	280.0	-76.0	4.0	-4.0	.203	30	-1.01	.15	5				
LAVERNE	5045	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.043	30	-1.58	.04	14				
RANGE	7412	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.000	30	*****	.00	30				
REGNIER	7534	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.350	30	-.74	.30	5				
TURPIN 4 SSE	9017	1	55.1	26	*****	93.	25	26.	6	272.0	*****	13.5	*****	.080	27	*****	.06	14				

**APRIL 1996 SUMMARY FOR NORTH CENTRAL DIVISION (CD2)**

NAME	ID	CD	DEV						HEAT		DEV		COOL		DEV		TOT	NUM	FROM	MAX	24-HR	DAY
			MEAN	NUM	FROM	MAX	MIN	DAY	DEG	FROM	DEG	FROM	DEG	FROM	PPT	OBS						
ALVA	193	2	61.2	30	*****	92.	24	25.	6	169.0	*****	54.0	*****	.020	30	*****	.02	28				
VANCE AFB	302	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.831	30	*****	1.45	21				
BILLINGS	755	2	55.0	30	-3.1	87.	12	23.	6	317.0	81.0	15.5	-13.5	2.212	30	-.88	2.20	22				
BLACKWELL 2E	818	2	61.3	26	*****	90.	11	33.	5	139.5	*****	42.5	*****	.760	30	-2.21	.58	22				
BRAMAN	1075	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.222	30	*****	1.22	29				
CEDARDALE	1620	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.010	30	*****	.01	29				
CHEROKEE	1724	2	60.0	30	-.1	90.	24	23.	6	200.0	12.0	49.5	8.5	.000	30	-2.38	.00	30				
ENID	2912	2	59.8	30	-.7	85.	12	28.	6	194.0	17.0	39.0	-3.0	.630	30	-2.24	.60	22				
FT SUPPLY DAM	3304	2	56.4	28	*****	97.	25	24.	6	267.0	*****	26.0	*****	.060	30	-1.68	.04	14				
FREEDOM	3358	2	54.5	30	-5.3	94.	25	14.	6	343.0	145.0	27.5	-14.5	.120	30	-2.05	.10	14				
GREAT SALT PLNS	3740	2	57.8	22	*****	90.	25	27.	8	180.0	*****	21.0	*****	.060	22	*****	.06	1				
HARDY	3909	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.930	30	*****	1.41	27				
HELENA 1 SSE	4019	2	56.7	30	-.4	88.	25	25.	6	271.5	13.5	21.5	.5	.110	30	-2.37	.06	29				
JEFFERSON	4573	2	59.2	30	-.5	88.	24	22.	6	215.0	15.0	42.0	1.0	.171	30	-2.59	.10	11				
LAMONT	5013	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.180	30	*****	.10	30				
MEDFORD	5768	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.221	30	*****	.16	11				
MORRISON	6065	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.940	30	*****	.90	22				
MUTUAL	6139	2	55.5	30	-1.5	94.	25	23.	6	307.5	44.5	24.0	-2.0	.000	30	-2.43	.00	30				
NEWKIRK	6278	2	58.7	30	-.9	89.	11	23.	6	229.5	28.5	39.5	.5	1.250	30	-1.84	.71	28				
ORIENTA	6751	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.000	30	-2.61	.00	30				
PERRY	7012	2	61.8	30	.3	88.	11	26.	6	165.0	4.0	67.5	14.5	2.130	30	-.57	2.05	21				
PONCA CITY FAA	7201	2	59.7	29	.6	90.	11	25.	6	201.5	-10.5	47.0	12.0	1.342	30	-1.48	.87	21				
RED ROCK 1 NNE	7505	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.050	30	-.71	1.97	22				
WAYNOKA	9404	2	60.5	30	.5	92.	25	21.	6	195.0	-1.0	60.5	14.5	.020	30	-2.07	.02	28				
WOODWARD	9760	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.011	30	-2.04	.01	21				

**APRIL 1996 SUMMARY FOR NORTHEAST DIVISION (CD3)**

NAME	ID	CD	DEV					HEAT		DEV		COOL		DEV		TOT	NUM	DEV	
			MEAN	NUM	FROM	MAX	MIN	DAY	DEG	FROM	DEG	FROM	NORM	NORM	FROM			MAX	24-HR
BARNSDALL	535	3	58.5	30	-2.5	87.	11	22.	6	230.0	67.0	36.5	-9.5	2.500	30	-.84	1.38	23	
BARTLESVILLE 2W	548	3	59.2	30	-2.1	88.	11	23.	6	203.5	42.5	30.0	-20.0	2.900	30	-.49	1.94	22	
BIXBY	782	3	57.7	29	-1.7	91.	20	29.	6	234.5	44.5	23.5	1.5	1.951	30	-1.58	.92	23	
BURBANK	1256	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.380	30	-.38	2.23	21	
CHELSEA 4 S	1717	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.870	30	*****	1.06	22	
CLAREMORE	1828	3	56.3	30	-2.7	89.	20	25.	6	278.5	76.5	18.5	-3.5	1.790	29	*****	.97	22	
CLEVELAND 5 WSW	1902	3	61.7	27	*****	88.	11	31.	1	146.0	*****	57.0	*****	1.493	30	*****	1.30	23	
FORAKER	3250	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.090	30	-2.03	.61	22	
HOLLOW	4258	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.411	30	.79	1.90	28	
HOMINY	4289	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.762	30	-1.31	1.24	23	
HULAH DAM	4393	3	57.7	21	*****	89.	12	22.	1	180.0	*****	27.5	*****	3.500	24	*****	1.72	22	
JAY TOWER	4567	3	57.1	30	*****	88.	20	28.	6	256.0	*****	20.0	*****	2.030	30	*****	.65	22	
KANSAS 1 ESE	4672	3	58.5	30	-2.0	86.	19	26.	6	218.0	47.0	22.0	-14.0	2.663	30	-1.62	1.13	22	
KEYSTONE DAM	4812	3	57.8	29	-2.1	86.	13	30.	6	232.0	42.0	24.0	-13.0	1.150	29	*****	.50	22	
LENAPAH	5118	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.740	30	*****	2.62	22	
MANNFORD 6 NW	5522	3	61.1	29	-.9	89.	11	31.	6	173.0	25.0	59.5	1.5	1.000	30	-2.29	.67	23	
MARAMEC	5540	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.260	30	-1.79	1.02	23	
MIAMI	5855	3	54.4	25	*****	87.	21	25.	6	276.5	*****	12.5	*****	3.930	28	*****	1.83	28	
NOWATA	6485	3	57.1	30	-3.2	87.	20	27.	6	257.0	72.0	19.5	-24.5	2.242	30	-1.40	.88	23	
OOLOGAH DAM	6729	3	56.2	30	*****	89.	20	25.	6	280.0	*****	15.0	*****	2.051	30	*****	1.20	23	
PAWHUSKA	6935	3	59.1	30	-1.5	86.	11	24.	6	223.0	47.0	45.5	1.5	2.191	30	-1.15	1.82	22	
PAWNEE	6940	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.700	30	-1.41	1.58	22	
PRYOR 6 N	7309	3	57.4	29	-1.4	90.	20	28.	6	253.0	40.0	33.0	6.0	1.832	30	-2.08	.73	23	
RALSTON	7390	3	58.7	29	-2.2	88.	11	23.	6	218.5	48.5	36.5	-10.5	1.800	30	-1.36	1.70	22	
SKIATOOK	8258	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.830	30	-2.62	.38	23	
SPAVINAW	8380	3	59.7	30	-1.9	88.	19	26.	6	203.0	53.0	42.5	-5.5	1.861	30	-2.13	.62	22	
TULSA WSO APT	8992	3	61.1	30	-.4	88.	20	29.	6	158.0	7.0	42.0	-4.0	1.967	30	-1.75	1.19	22	
UPPER SPAVINAW	9101	3	58.5	30	*****	87.	19	24.	6	226.0	*****	29.5	*****	2.692	30	*****	.90	22	
VINITA 2 N	9203	3	57.5	20	*****	88.	19	22.	6	169.5	*****	19.0	*****	2.160	20	*****	.90	22	
WAGONER	9247	3	60.1	30	-1.7	90.	19	27.	6	185.5	47.5	39.0	-3.0	2.010	30	-2.25	.83	22	
WANN	9298	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.912	30	*****	1.98	28	
WYNONA	9792	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.102	30	*****	1.15	22	

**APRIL 1996 SUMMARY FOR WEST CENTRAL DIVISION (CD4)**

NAME	ID	CD	DEV					HEAT		DEV		COOL		DEV		TOT	NUM	DEV	
			MEAN	NUM	FROM	MAX	MIN	DAY	DEG	FROM	DEG	FROM	NORM	NORM	FROM			MAX	24-HR
CANTON DAM	1445	4	57.0	30	-1.2	88.	25	26.	6	263.5	26.5	24.5	-8.5	.090	30	-2.20	.07	12	
CLINTON	1909	4	60.5	30	-.5	92.	24	27.	6	179.5	8.5	44.0	-7.0	.112	30	-2.20	.11	22	
COLONY	2039	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.580	30	*****	.48	22	
CORDELL	2125	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.600	30	-1.43	.60	22	
ELK CITY 1 E	2849	4	59.3	29	-1.0	96.	24	31.	7	192.5	14.5	28.5	-8.5	.160	29	*****	.16	22	
ERICK 4 E	2944	4	59.8	30	-.4	99.	24	24.	1	202.0	21.0	47.5	10.5	.001	30	-2.04	.00	12	
GEARY	3497	4	59.9	30	-.3	85.	11	35.	8	174.5	-13.5	20.5	-23.5	.640	30	-1.77	.64	22	
HAMMON 3 SSW	3871	4	55.9	28	*****	97.	25	21.	6	281.0	*****	27.0	*****	.000	28	*****	.00	30	
LEEDEY	5090	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.000	30	-2.24	.00	30	
MACKIE 4 NNW	5463	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.000	30	*****	.00	30	
MORAVIA 2 NNE	6035	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.000	30	-2.01	.00	30	
OKEENE	6629	4	59.2	30	-1.7	87.	24	25.	7	201.5	29.5	26.5	-22.5	.400	30	-1.98	.40	22	
RETROP	7565	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.000	30	*****	.00	30	
REYDON	7579	4	58.0	30	-1.1	96.	25	28.	9	253.0	34.0	44.0	2.0	.000	30	-2.02	.00	30	
SAYRE	7952	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.240	30	-1.68	.24	22	
SWEETWATER 2 E	8652	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.020	30	*****	.02	22	
TALOGA	8708	4	58.8	30	-.3	93.	24	21.	30	226.0	17.0	38.5	6.5	.002	30	-2.36	.00	12	
THOMAS	8815	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.000	30	*****	.00	30	
VICI	9172	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.031	30	-2.44	.03	3	
WATONGA	9364	4	59.2	30	-.8	87.	24	26.	6	212.5	23.5	38.5	-.5	.042	30	-2.36	.04	22	
WEATHERFORD	9422	4	59.1	28	*****	90.	24	30.	5	193.0	*****	28.5	*****	.210	28	*****	.21	21	

APRIL 1996 SUMMARY FOR CENTRAL DIVISION (CD5)

Table with columns: NAME, ID, CD, MEAN TEMP, NUM OBS, DEV FROM NORM, MAX TEMP, MIN DAY, HEAT DEG DAY, DEV FROM NORM, COOL DEG DAY, DEV FROM NORM, TOT PPT, NUM OBS, DEV FROM NORM, MAX 24-HR, DAY. Lists weather data for stations like AMBER, ARCADIA, BLANCHARD 2 SSW, etc.

APRIL 1996 SUMMARY FOR EAST CENTRAL DIVISION (CD6)

Table with columns: NAME, ID, CD, MEAN TEMP, NUM OBS, DEV FROM NORM, MAX TEMP, MIN DAY, HEAT DEG DAY, DEV FROM NORM, COOL DEG DAY, DEV FROM NORM, TOT PPT, NUM OBS, DEV FROM NORM, MAX 24-HR, DAY. Lists weather data for stations like ASHLAND, BEGGS, BOYNTON, etc.



**APRIL 1996 SUMMARY FOR SOUTHEAST DIVISION (CD9)**

NAME	ID	CD	DEV						HEAT		DEV		COOL		DEV		TOT PPT	NUM OBS	FROM NORM	MAX 24-HR	DAY
			MEAN TEMP	NUM OBS	FROM NORM	MAX TEMP	MIN DAY	MIN TEMP	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM									
ANTLERS	256	9	61.4	29	-1.5	87.	19	30.	7	156.5	47.5	52.0	6.0	*****	0	*****	*****	0	*****	0	
BATTIEST 1 SSW	567	9	57.2	30	*****	82.	20	25.	7	254.0	*****	18.5	*****	4.950	30	*****	2.82	13			
BEAR MT TWR	584	9	62.2	20	*****	87.	21	34.	10	84.0	*****	28.0	*****	2.690	21	*****	1.37	12			
BENGAL	670	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	8.120	30	*****	4.44	22			
BROKEN BOW 1 N	1162	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.890	30	-1.62	1.20	13			
CARNASAW TWR	1499	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.130	30	-1.76	1.51	13			
CARTER TWR	1544	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.500	30	-1.18	2.00	13			
FANSHAW	3065	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.070	30	-.54	2.17	22			
HEAVENER 1 SE	4008	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	8.110	30	3.64	3.34	21			
HUGO	4384	9	63.0	30	-1.1	87.	20	35.	7	128.5	38.5	67.0	4.0	2.410	30	-1.76	1.21	13			
IDABEL	4451	9	58.8	30	-3.2	88.	20	28.	7	209.5	78.5	25.0	-16.0	2.600	30	-1.82	1.21	13			
PINE CREEK DAM	7080	9	59.6	29	*****	89.	20	29.	7	172.0	*****	14.5	*****	2.790	29	*****	1.36	13			
POTEAU W W	7254	9	58.6	30	*****	88.	21	30.	7	223.5	*****	31.0	*****	5.922	29	*****	2.12	21			
SMITHVILLE 1 W	8285	9	57.1	30	-3.5	85.	19	24.	7	250.5	92.5	13.5	-12.5	4.581	30	-.16	2.70	13			
SPIRO	8416	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.320	30	1.96	2.18	22			
TUSKAHOMA	9023	9	61.1	30	-1.8	88.	19	28.	1	172.0	53.0	54.5	-1.5	6.940	30	2.22	2.32	13			
VALLIANT 3 W	9118	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.900	30	-1.44	1.58	13			
WILBURTON 9 ENE	9634	9	60.7	30	-1.3	88.	19	29.	7	179.0	40.0	50.0	1.0	6.790	30	2.09	3.12	21			
ZOE	9985	9	55.5	28	*****	85.	20	24.	1	283.5	*****	18.0	*****	3.960	28	*****	1.89	13			

**APRIL 1996 CLIMATE DIVISION SUMMARY**

CLIMATE DIV	MEAN TEMP	NUM STA	DEV			HEAT DEGREE			DEV			COOL		DEV		TOT PPT	NUM STA	FROM NORM	MAX 24-HR	DAY
			FROM NORM	MAX TEMP	MIN DAY	DEGREE	FROM NORM	DEGREE	FROM NORM	DEGREE										
1	56.4	10	-.1	96.0	24	18.0	6	281.0	1.8	22.8	.2	.10	13	-1.50	.30	5				
2	58.5	12	-.6	97.0	25	14.0	6	234.0	21.0	40.6	4.4	.76	24	-1.81	2.20	22				
3	58.5	17	-1.8	91.0	20	22.0	6	225.3	47.4	31.6	-6.2	2.23	27	-1.28	2.62	22				
4	59.1	9	-.7	99.0	24	21.0	30	211.7	15.9	34.7	-4.8	.15	18	-2.04	.64	22				
5	60.0	13	-1.6	91.0	19	23.0	6	187.0	34.2	38.8	-11.1	2.03	34	-1.17	3.40	21				
6	59.7	11	-2.0	90.0	20	28.0	7	192.6	49.6	36.7	-7.8	5.07	27	-.88	5.25	22				
7	61.2	9	-1.0	100.0	24	25.0	6	159.2	15.8	45.8	-11.8	.78	20	-1.49	3.00	22				
8	61.4	13	-1.6	92.0	19	21.0	1	156.9	34.3	48.3	-12.6	3.08	31	-.59	5.50	22				
9	59.7	9	-2.5	89.0	20	24.0	1	193.9	65.6	36.2	-9.3	4.81	14	.28	4.44	22				

**APRIL 1996 SUMMARY FOR SOUTHWEST DIVISION (CD7)**

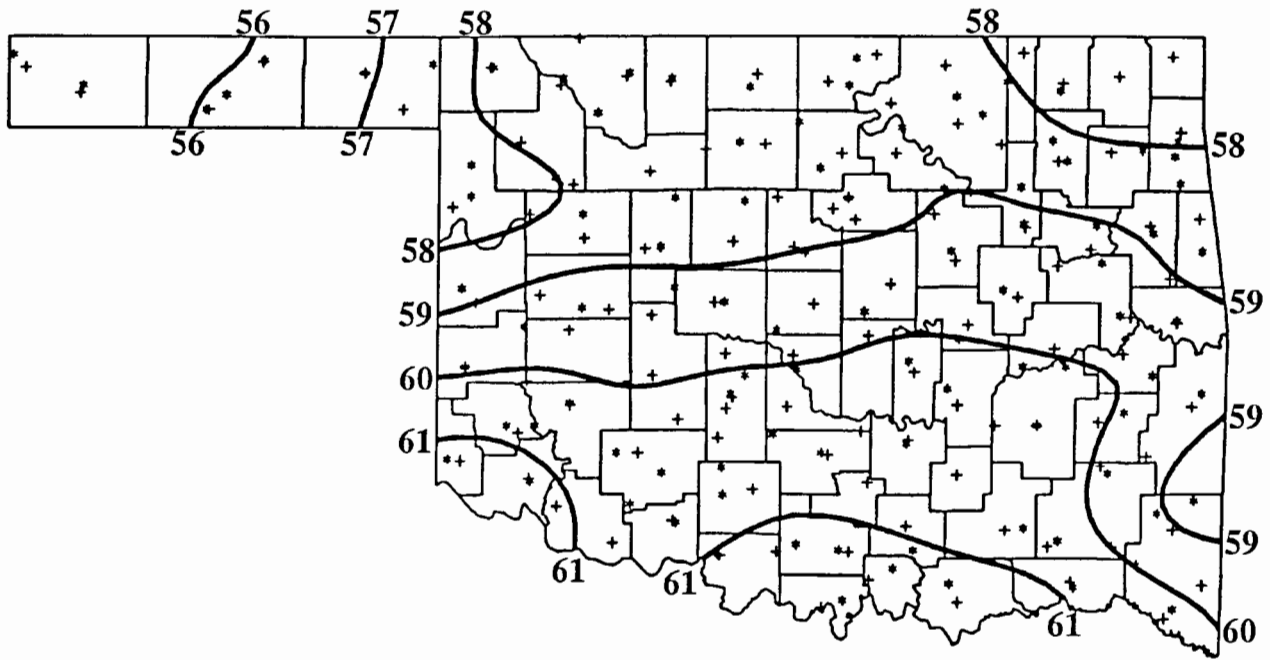
NAME	ID	CD	DEV					HEAT		DEV		COOL		DEV		TOT	NUM	FROM	MAX	24-HR	DAY
			MEAN	NUM	FROM	MAX	MIN	DEG	FROM	DEG	FROM	DEG	FROM	PPT	OBS						
ALTUS IRR STA	179	7	63.5	30	.2	98.	24	28.	6	115.0	-8.0	69.0	-3.0	.030	30	-1.89	.03	4			
ALTUS DAM	184	7	61.4	30	.0	96.	25	25.	6	178.5	22.5	70.0	22.0	.070	30	-1.84	.07	4			
ANADARKO	224	7	59.7	23	****	85.	19	29.	1	138.5	*****	16.5	*****	1.740	23	*****	1.74	22			
APACHE	260	7	****	0	****	****	0	****	0	*****	*****	*****	*****	.680	30	-1.92	.42	22			
ALTUS AFB	447	7	****	0	****	****	0	****	0	*****	*****	*****	*****	.003	30	*****	.00	23			
CARNEGIE 2 ENE	1504	7	60.8	28	****	88.	24	29.	6	137.0	*****	19.5	*****	.701	30	-1.66	.70	21			
CHATTANOOGA	1706	7	60.4	29	-2.3	89.	19	31.	6	163.5	28.5	29.0	-37.0	2.300	30	-.23	1.10	4			
DUNCAN 11 W	2668	7	****	0	****	****	0	****	0	*****	*****	*****	*****	3.410	30	*****	1.97	22			
FREDERICK	3353	7	60.6	23	****	89.	25	33.	8	124.5	*****	24.0	*****	.930	23	*****	.75	22			
HEADRICK	3998	7	****	0	****	****	0	****	0	*****	*****	*****	*****	.400	30	*****	.40	21			
HOBART FAA APT	4204	7	59.7	30	-1.7	89.	27	30.	6	194.5	31.5	34.5	-20.5	.182	30	-1.88	.18	3			
HOLLIS	4249	7	61.5	29	-1.4	100.	24	26.	6	146.5	15.5	46.0	-22.0	.000	30	-1.98	.00	30			
LAWTON	5063	7	58.0	25	****	88.	20	33.	6	188.5	*****	14.0	*****	1.650	29	*****	1.00	22			
FORT SILL	5068	7	60.3	30	****	89.	19	33.	6	173.0	*****	33.0	*****	1.802	30	*****	.99	21			
LOOKEBA 2 ENE	5329	7	****	0	****	****	0	****	0	*****	*****	*****	*****	1.301	30	-1.16	1.30	22			
MANGUM RES STA	5509	7	63.2	30	.3	98.	25	26.	1	128.5	-2.5	74.5	6.5	.000	30	-1.79	.00	30			
RANDLETT 9 E	7403	7	****	0	****	****	0	****	0	*****	*****	*****	*****	.180	30	*****	.10	23			
ROOSEVELT	7727	7	****	0	****	****	0	****	0	*****	*****	*****	*****	.060	30	-2.30	.06	22			
SEDAN	8016	7	****	0	****	****	0	****	0	*****	*****	*****	*****	.430	30	*****	.39	20			
SNYDER	8299	7	****	0	****	****	0	****	0	*****	*****	*****	*****	.411	30	-1.84	.41	22			
VINSON 3 WNW	9212	7	****	0	****	****	0	****	0	*****	*****	*****	*****	.000	30	-1.68	.00	30			
WALTERS	9278	7	61.5	30	-2.0	89.	19	33.	6	147.0	26.0	42.0	-34.0	3.600	30	.72	3.00	22			
WICHITA MT WLR	9629	7	59.1	29	-1.3	87.	25	27.	8	186.5	8.5	14.0	-26.0	.470	29	*****	.45	22			
WILLOW	9668	7	****	0	****	****	0	****	0	*****	*****	*****	*****	.000	30	*****	.00	30			

**APRIL 1996 SUMMARY FOR SOUTH CENTRAL DIVISION (CD8)**

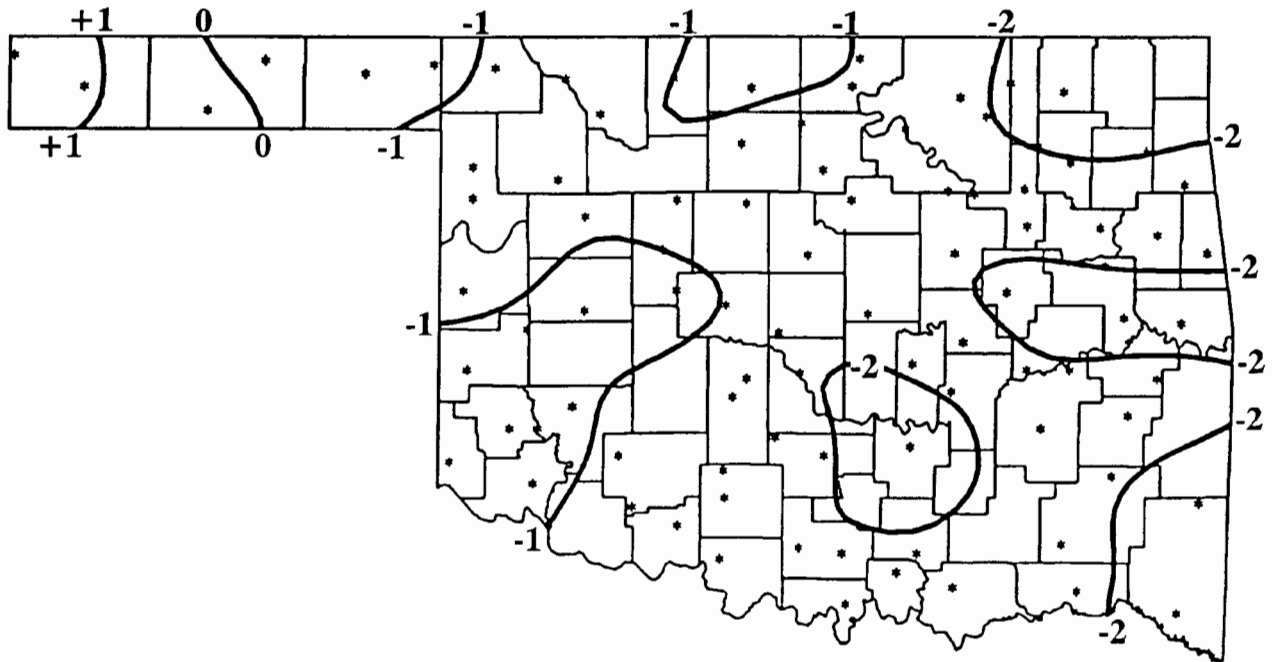
NAME	ID	CD	DEV					HEAT		DEV		COOL		DEV		TOT	NUM	FROM	MAX	24-HR	DAY
			MEAN	NUM	FROM	MAX	MIN	DEG	FROM	DEG	FROM	DEG	FROM	PPT	OBS						
ADA	17	8	59.1	30	-3.3	88.	19	32.	6	199.5	67.5	23.0	-31.0	6.220	30	2.73	4.43	22			
ALLEN	147	8	****	0	****	****	0	****	0	*****	*****	*****	*****	6.900	30	*****	5.50	22			
ARDMORE	292	8	63.0	30	-1.8	90.	19	37.	6	115.5	19.5	55.0	-35.0	4.250	30	.72	2.20	13			
ATOKA DAM	394	8	60.7	22	****	89.	22	21.	1	125.0	*****	31.0	*****	3.560	22	*****	1.50	22			
BOKCHITO	917	8	****	0	****	****	0	****	0	*****	*****	*****	*****	4.670	30	*****	3.00	22			
CANEY	1437	8	****	0	****	****	0	****	0	*****	*****	*****	*****	2.910	30	*****	1.64	13			
CENTRAHOMA	1648	8	****	0	****	****	0	****	0	*****	*****	*****	*****	5.450	30	*****	3.40	22			
CHICKASAW NRA	1745	8	58.4	28	****	89.	20	31.	6	216.5	*****	31.5	*****	2.100	30	-1.49	1.50	13			
COLEMAN	2011	8	****	0	****	****	0	****	0	*****	*****	*****	*****	3.320	30	*****	1.40	13			
COMANCHE	2054	8	****	0	****	****	0	****	0	*****	*****	*****	*****	1.060	30	-1.92	.66	4			
DAISY 4 ENE	2354	8	****	0	****	****	0	****	0	*****	*****	*****	*****	6.512	30	1.46	2.70	13			
DUNCAN	2660	8	59.6	30	-2.9	86.	20	35.	6	193.5	66.5	31.0	-21.0	2.932	30	-.06	1.38	22			
DURANT USDA	2678	8	60.1	30	-2.1	90.	20	34.	1	187.0	48.0	40.0	-15.0	4.810	30	.57	2.70	22			
ELMORE CITY	2872	8	****	0	****	****	0	****	0	*****	*****	*****	*****	1.300	30	*****	.95	22			
GRADY	3688	8	****	0	****	****	0	****	0	*****	*****	*****	*****	1.740	30	*****	1.14	21			
HEALDTON	4001	8	61.0	30	-2.2	89.	19	34.	6	163.5	44.5	43.5	-21.5	1.660	30	-1.78	.80	13			
HENNEPIN	4052	8	****	0	****	****	0	****	0	*****	*****	*****	*****	2.911	30	*****	2.30	22			
KETCHUM RANCH	4780	8	****	0	****	****	0	****	0	*****	*****	*****	*****	1.680	30	*****	.72	4			
KINGSTON	4865	8	****	0	****	****	0	****	0	*****	*****	*****	*****	2.230	30	-1.65	.86	13			
LEHIGH	5108	8	****	0	****	****	0	****	0	*****	*****	*****	*****	3.250	30	*****	1.80	13			
LINDSAY 2 W	5216	8	62.3	30	-.2	89.	19	31.	23	142.5	5.5	60.0	1.0	1.590	30	-1.76	1.12	22			
LOCO 6 SE	5247	8	****	0	****	****	0	****	0	*****	*****	*****	*****	.990	30	*****	.36	4			
MADILL	5468	8	60.9	30	-2.7	90.	20	35.	1	170.5	68.5	47.0	-13.0	1.990	30	-2.01	1.04	22			
MARIETTA	5563	8	63.4	30	-.2	92.	19	36.	7	113.0	10.0	64.5	3.5	1.900	30	-1.71	.95	22			
MARLOW 1 WSW	5581	8	62.2	30	-.1	88.	19	30.	6	143.0	10.0	59.0	7.0	2.530	30	-.39	1.20	22			
MCGEE CREEK DAM	5713	8	60.8	30	****	90.	22	33.	1	176.5	*****	51.5	*****	6.131	30	*****	2.97	22			
PAULS VALLEY	6926	8	60.9	29	-2.3	89.	19	30.	1	158.5	36.5	39.5	-28.5	2.240	30	-1.21	1.80	22			
PONTOTOC	7214	8	****	0	****	****	0	****	0	*****	*****	*****	*****	6.170	30	2.35	4.05	21			
TISHOMINGO NWLR	8884	8	61.5	30	-1.9	91.	20	34.	16	158.5	48.5	54.5	-7.5	2.400	30	-1.80	.88	21			
TUSSY	9032	8	****	0	****	****	0	****	0	*****	*****	*****	*****	1.390	30	*****	1.00	22			
WAURIKA	9395	8	63.0	30	-1.0	90.	19	34.	1	118.5	8.5	60.0	-23.0	.600	30	-2.34	.30	22			
WAURIKA DAM	9399	8	60.6	26	****	90.	21	34.	5	148.0	*****	34.5	*****	1.571	30	*****	.81	22			

MESONET MONTHLY SUMMARY FOR APRIL 1996

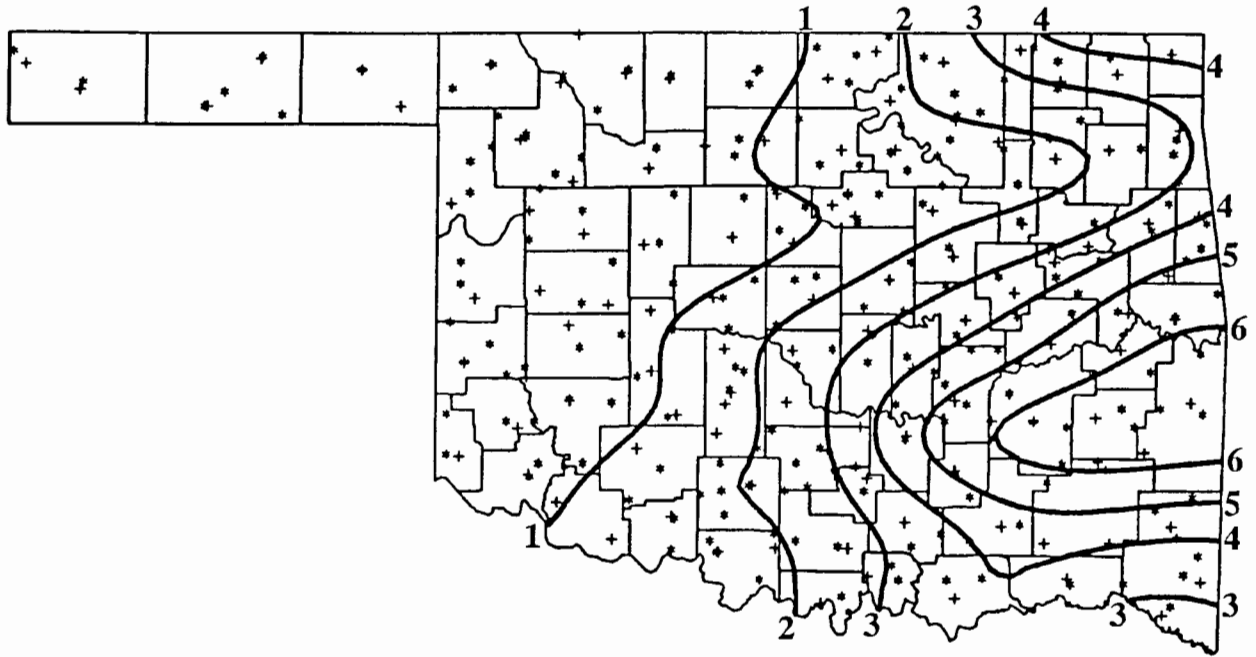
NAME	MEAN TEMP	MAX TEMP	MIN TEMP	DAY	HDD	CDD	TOT PPT	MAX 24-HR	DAY	NAME	MEAN TEMP	MAX TEMP	MIN TEMP	DAY	HDD	CDD	TOT PPT	MAX 24-HR	DAY		
NORTHWEST																					
ARNETT	59.1	100	24	26	6	217	41	.03	.02	28	GOODWELL	56.2	97	24	29	6	282	19	.01	.01	5
BEAVER	57.8	98	24	25	6	244	30	.00	.00	1	HOOVER	55.7	96	24	27	1	295	15	.01	.01	14
BOISE CITY	54.5	94	24	26	6	320	5	.34	.31	5	KENTON	55.2	93	24	28	6	302	7	.26	.20	5
BUFFALO	58.0	98	24	24	6	252	41	.19	.18	13	SLAPOUT	58.2	98	24	30	1	236	30	.02	.01	3
NORTH CENTRAL																					
ALVA	57.5	89	24	22	6	259	34	.03	.02	28	MAY RANCH	59.0	93	24	32	4	223	44	.38	.38	13
BLACKWELL	57.7	91	11	24	6	247	27	.78	.60	21	MEDFORD	57.2	88	11	24	6	263	29	.19	.14	11
BRECKENRIDGE	57.0	86	11	23	6	265	25	.57	.51	21	NEWKIRK	57.6	90	11	26	6	248	27	1.48	.57	21
CHEROKEE	56.0	89	24	21	6	292	24	.00	.00	1	RED ROCK	58.5	90	11	27	6	226	32	3.10	3.00	21
FAIRVIEW	58.2	88	24	26	6	238	33	.05	.04	28	SEILING	58.7	95	24	23	6	230	40	.01	.01	3
FREEDOM	59.8	98	24	29	1	210	54	.10	.07	13	WOODWARD	60.2	99	24	28	6	199	54	.01	.01	28
LAHOMA	57.2	87	24	27	6	255	21	.02	.01	21											
NORTHEAST																					
BIXBY	59.9	92	19	30	6	191	39	1.67	.74	22	NOWATA	57.4	88	19	23	6	250	21	2.70	1.01	21
BURBANK	56.9	89	11	24	6	268	25	2.56	2.42	21	PAWNEE	59.2	90	11	26	6	215	39	1.80	1.59	21
CLAREMORE	59.1	91	19	27	6	206	29	1.40	.67	22	PRYOR	58.2	91	19	26	6	229	23	1.50	.58	22
COPAN	57.5	88	11	26	6	248	25	3.91	2.16	21	SKIATOOK	59.5	88	11	29	6	205	41	1.35	.71	22
FORAKER	58.0	91	11	26	6	242	33	2.45	1.86	21	TULLAHASSEE	59.1	90	19	29	6	211	34	2.61	1.23	22
JAY	57.2	88	19	22	6	251	18	1.79	.95	22	VINITA	56.2	88	19	22	6	278	13	2.97	1.26	22
MIAMI	56.2	87	19	25	6	280	16	4.56	2.42	28	WYNONA	59.1	90	11	27	6	213	37	1.93	1.01	21
WEST CENTRAL																					
BESSIE	60.6	95	24	30	6	179	46	.27	.26	21	PUTNAM	59.0	94	24	27	6	216	37	.00	.00	1
BUTLER	60.2	98	24	25	1	198	55	.01	.01	21	RETROP	60.6	98	24	29	6	180	48	.00	.00	1
CAMARGO	56.8	98	24	21	6	272	26	.00	.00	1	WATONGA	58.3	87	24	28	6	227	27	.00	.00	1
CHEYENNE	59.5	97	24	33	6	203	38	.00	.00	1	WEATHERFORD	58.5	89	24	29	6	221	27	.37	.37	21
ERICK	58.5	100	24	23	1	234	38	.00	.00	1											
CENTRAL																					
ACME	61.6	90	8	31	1	161	58	1.93	1.26	21	MINCO	59.7	87	19	33	6	193	34	2.41	2.23	21
BOWLEGS	60.0	91	19	32	6	191	42	3.58	1.34	21	NINNEKAH	61.2	93	19	33	1	169	55	1.12	.69	21
BRISTOW	59.3	91	19	30	6	210	40	2.50	1.23	22	NORMAN	60.5	87	19	32	6	175	40	2.77	1.08	3
CHANDLER	58.8	88	19	30	6	218	34	2.45	1.17	22	OILTON	58.8	89	11	25	6	228	41	1.76	.96	21
CHICKASHA	59.7	87	19	32	6	196	37	2.22	1.38	21	OKEMAH	59.7	91	19	30	6	198	38	3.42	1.38	21
EL RENO	58.6	87	11	26	1	225	33	1.10	1.05	21	PERKINS	58.4	88	11	27	6	232	35	.25	.11	22
GUTHRIE	60.5	89	11	28	6	187	51	.56	.40	21	SHAWNEE	60.0	89	19	30	6	192	41	1.39	.66	21
KINGFISHER	57.2	85	11	23	6	264	29	.22	.14	21	SPENCER	59.1	86	11	27	6	214	37	2.21	1.12	21
MARENA	58.8	88	11	30	1	219	34	.36	.29	21	STILLWATER	57.5	88	11	24	6	260	34	.41	.38	21
MARSHALL	57.2	86	11	24	6	262	29	.40	.37	21	WASHINGTON	59.7	88	19	33	6	190	32	2.27	1.30	21
EAST CENTRAL																					
CALVIN	60.0	91	19	33	6	184	35	6.81	3.52	21	SALLISAW	60.0	92	19	32	1	181	32	6.19	3.23	22
COOKSON	58.7	89	19	28	6	217	27	6.62	3.40	22	STIGLER	59.1	89	19	32	1	203	26	6.86	3.66	22
EUFULA	60.9	91	19	33	6	162	48	4.62	2.30	21	STUART	61.0	91	19	32	6	170	48	6.25	3.90	22
HASKELL	59.3	92	19	28	6	201	30	2.37	1.19	22	TAHLEQUAH	58.3	90	19	27	6	226	26	3.01	1.54	22
MCALESTER	60.0	89	19	33	6	184	35	7.83	6.19	22	WEBBERS FALLS	59.8	90	19	33	1	187	30	5.65	2.85	22
OKMULGEE	58.2	91	19	27	6	226	22	4.53	2.14	21	WESTVILLE	58.1	86	19	29	6	232	25	4.48	2.06	22
SOUTHWEST																					
ALTUS	61.0	98	24	29	6	162	40	.02	.02	3	HOLLIS	61.7	102	24	28	6	150	50	.00	.00	1
APACHE	58.4	88	19	29	6	221	23	.52	.26	22	MANGUM	59.3	98	24	26	6	198	29	.02	.02	3
FORT COBB	60.2	88	19	31	6	184	40	.66	.48	3	MEDICINE PARK	61.9	88	19	33	6	139	47	1.17	.67	21
GRANDFIELD	60.5	91	19	31	6	172	38	2.58	2.28	21	TIPTON	61.0	91	24	29	6	156	36	.61	.52	21
HINTON	58.8	86	24	28	6	215	30	1.07	1.07	21	WALTERS	60.2	90	9	32	6	181	37	3.71	3.01	21
HOBART	59.3	94	24	28	6	205	33	.11	.11	3											
SOUTH CENTRAL																					
ADA	61.3	92	19	33	6	164	53	6.44	3.60	22	LANE	60.0	88	18	33	1	182	33	4.36	2.22	12
ARDMORE	62.7	91	19	38	6	130	62	3.14	1.47	22	MADILL	62.6	92	19	37	30	130	58	1.41	.66	22
BURNEYVILLE	61.0	91	19	32	1	162	42	2.58	1.15	12	PAULS VALLEY	61.5	91	19	34	6	154	48	2.71	1.83	21
BYARS	60.5	89	19	32	6	179	46	3.65	2.23	21	RINGLING	60.7	89	19	35	6	164	35	1.39	.72	12
CENTRAHOMA	61.1	93	19	34	6	163	46	5.38	4.31	22	SULPHUR	59.0	88	19	31	6	210	31	2.93	1.60	22
DURANT	62.6	90	19	38	7	133	60	5.96	2.80	21	TISHOMINGO	59.3	90	19	33	6	200	28	3.55	2.04	22
KETCHUM RANCH	60.0	88	19	32	6	183	33	1.91	1.03	21	WAURIKA	61.2	91	19	33	1	160	45	.73	.36	22
SOUTHEAST																					
ANTLERS	60.3	91	18	29	7	181	40	4.43	1.94	12	IDABEL	61.4	89	19	30	7	154	47	2.59	1.24	12
BROKEN BOW	61.1	91	19	29	7	161	45	3.02	1.59	12	MT HERMAN	57.9	83	18	29	7	230	17	4.31	2.56	12
CLAYTON	60.6	90	19	32	1	167	35	2.79	1.87	12	TALIHINA	58.9	87	19	30	7	203	21	7.90	2.59	22
CLOUDY	59.5	85	18	29	7	194	29	3.24	1.84	12	WILBURTON	59.6	90	19	33	1	194	33	6.96	5.27	22
HUGO	61.5	87	19	35	7	147	43	3.34	1.95	12	WISTER	57.5	87	19	28	7	238	12	5.43	3.64	22



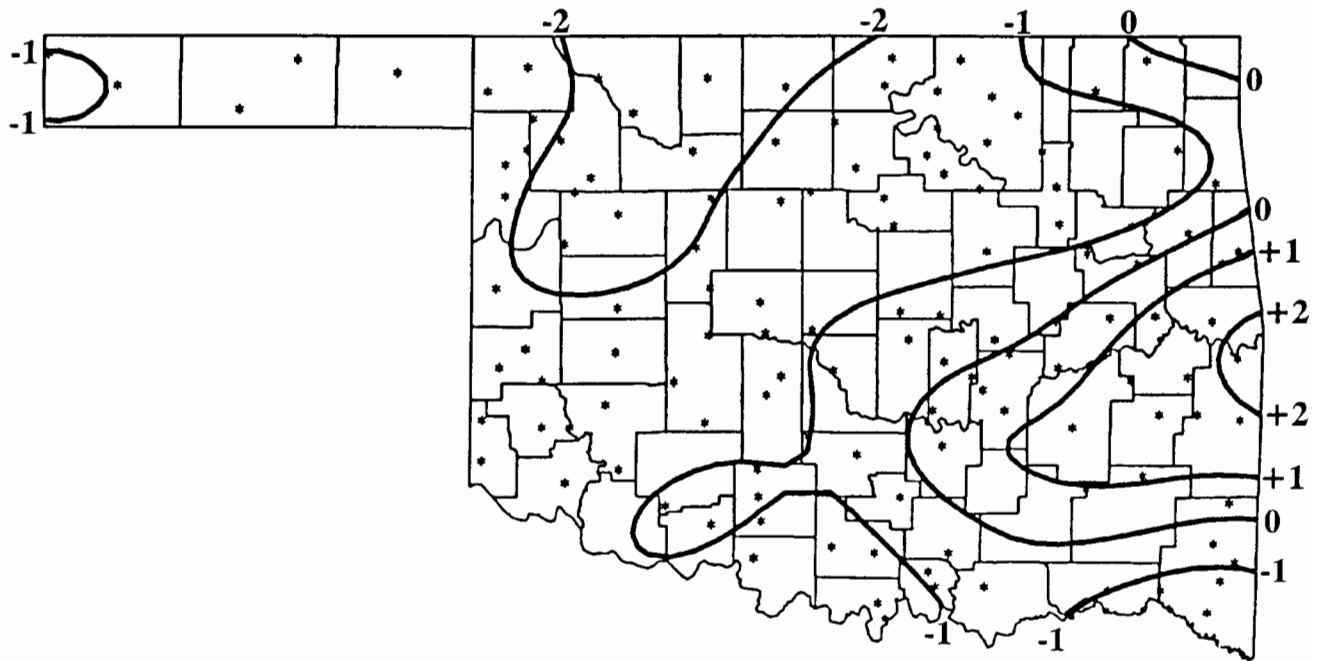
APRIL 1996 AVERAGE MONTHLY TEMPERATURES  
(Degrees F)



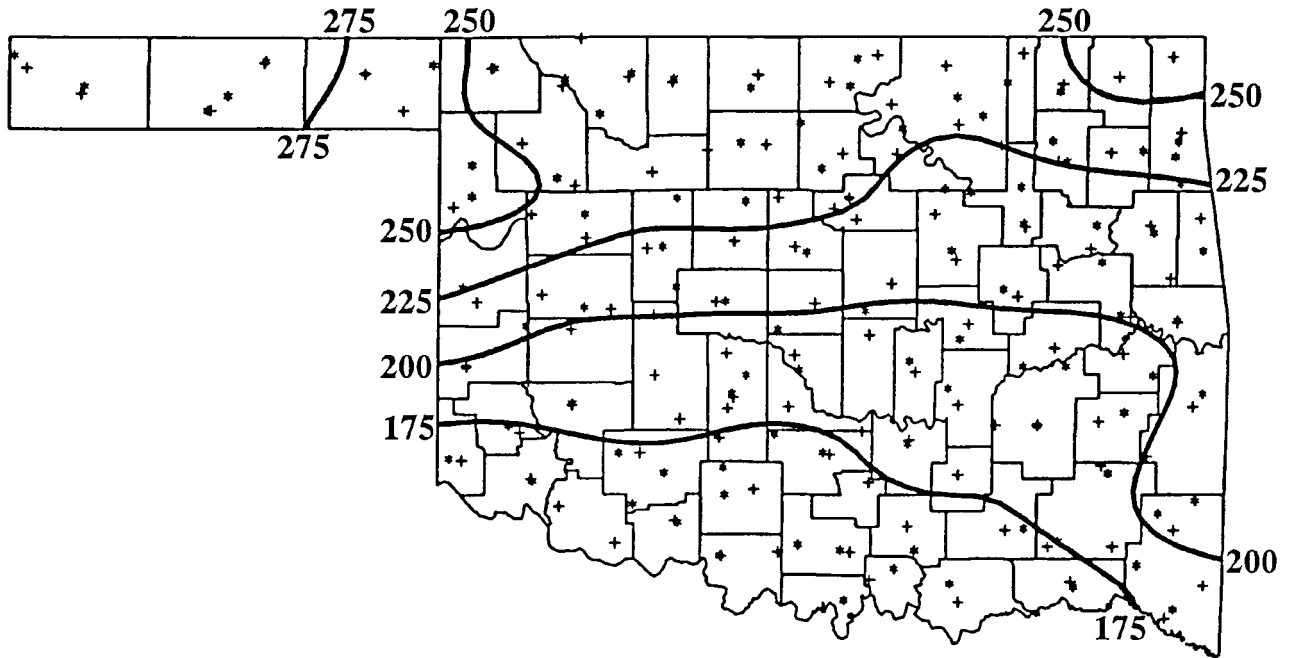
APRIL 1996 DEVIATION FROM NORMAL TEMPERATURES  
(Degrees F)



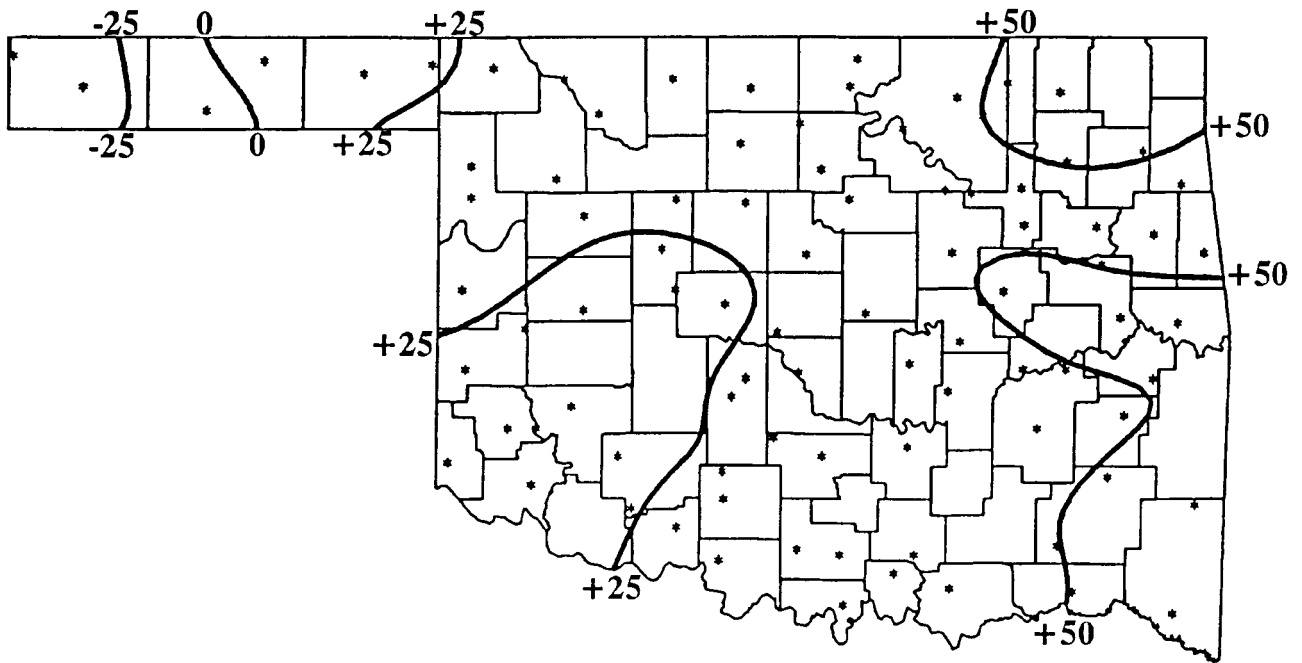
APRIL 1996 TOTAL PRECIPITATION  
(Inches)



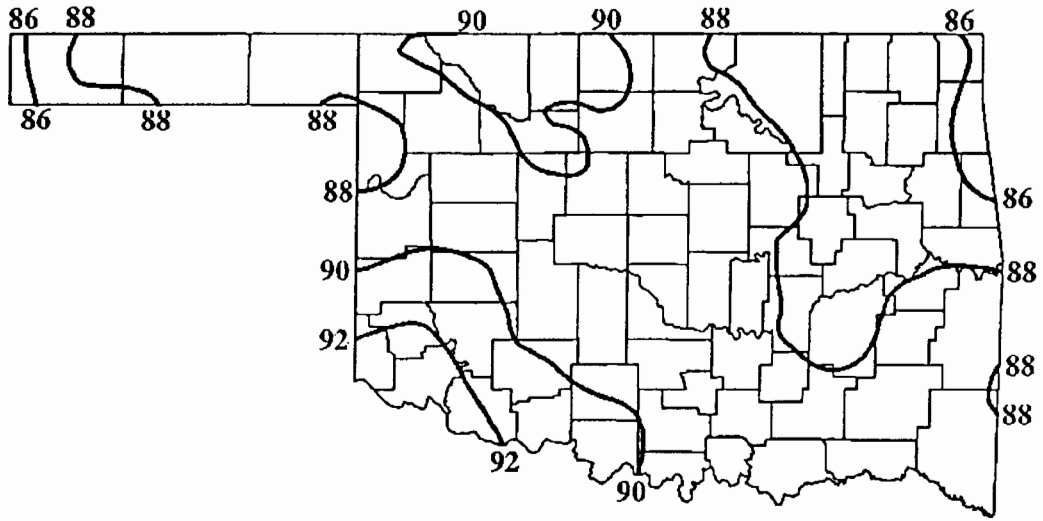
APRIL 1996 DEVIATION FROM NORMAL PRECIPITATION  
(Inches)



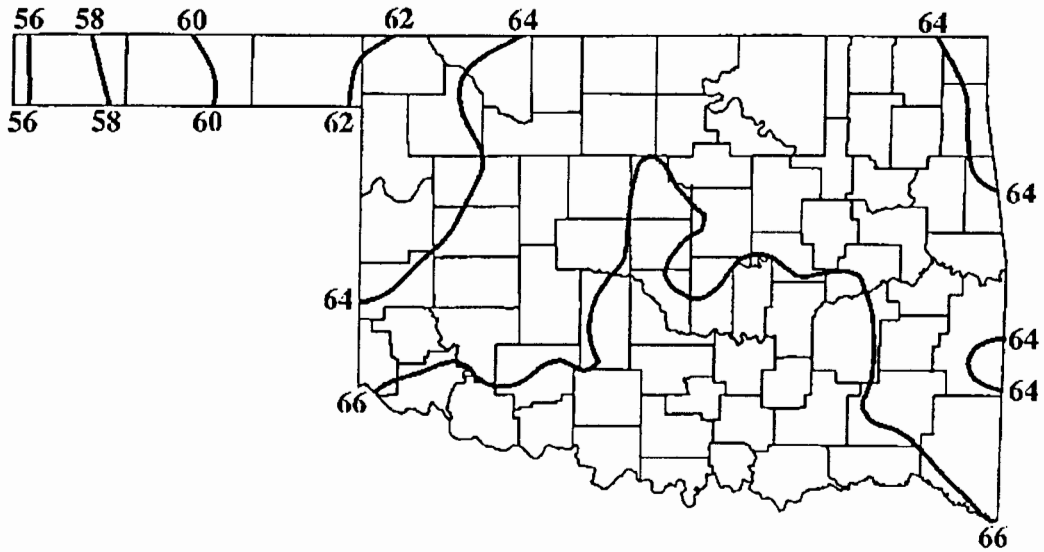
APRIL 1996 HEATING DEGREE DAYS



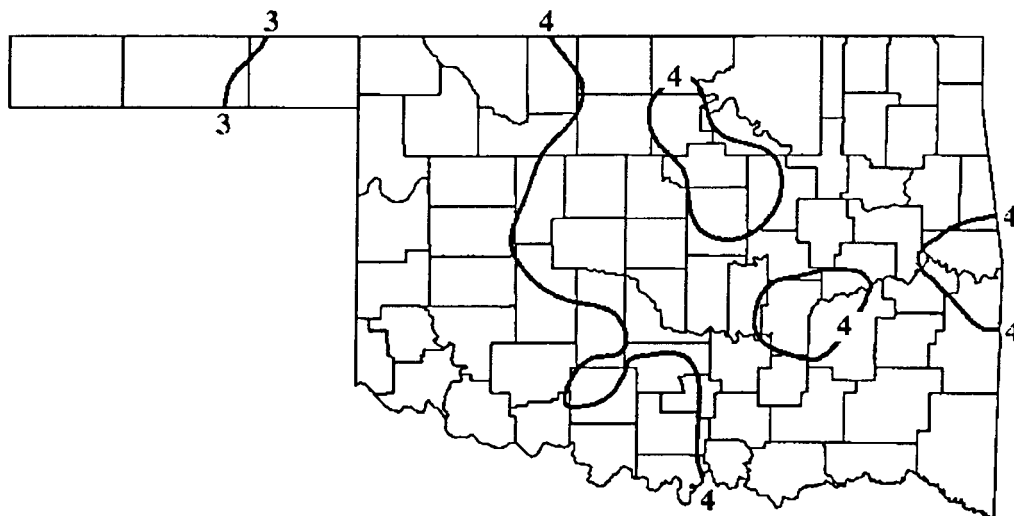
APRIL 1996 DEVIATION FROM NORMAL HEATING DEGREE DAYS



June Normal Daily Maximum Temperatures (°F)



June Normal Daily Minimum Temperatures (°F)



June Normal Monthly Precipitation (inches)

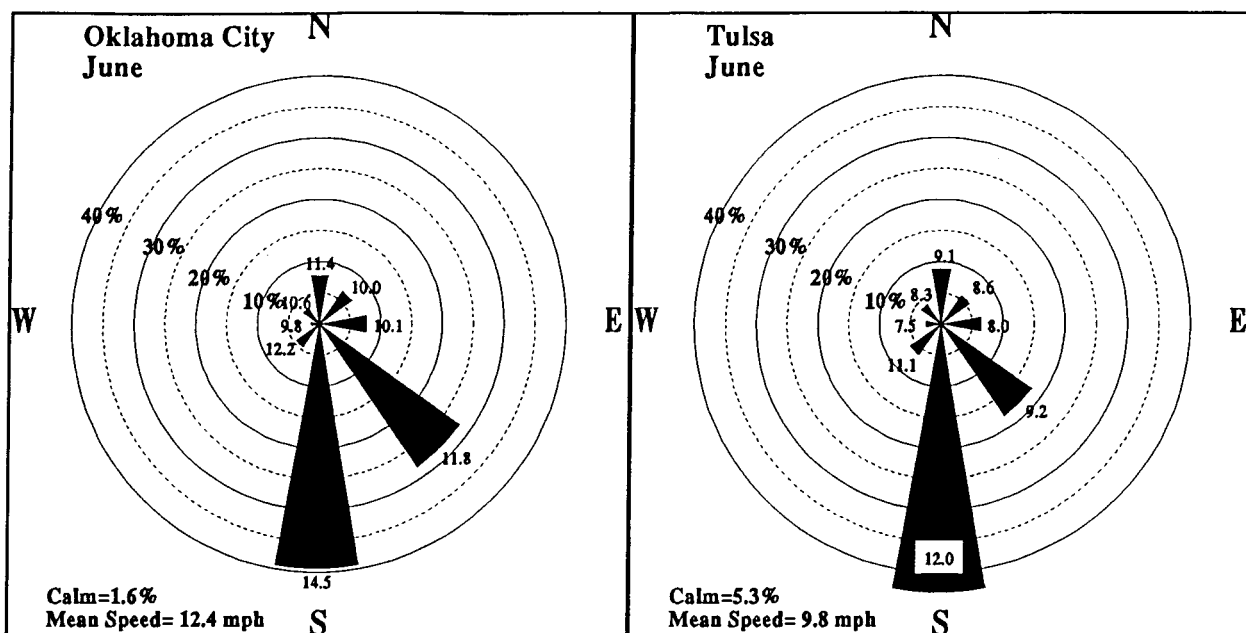
NATIONAL WEATHER SERVICE SEASONAL OUTLOOK

(June through August 1996)

Precipitation - Near Normal Statewide

Temperature - Near Normal Statewide





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 1996 SUNRISE AND SUNSET

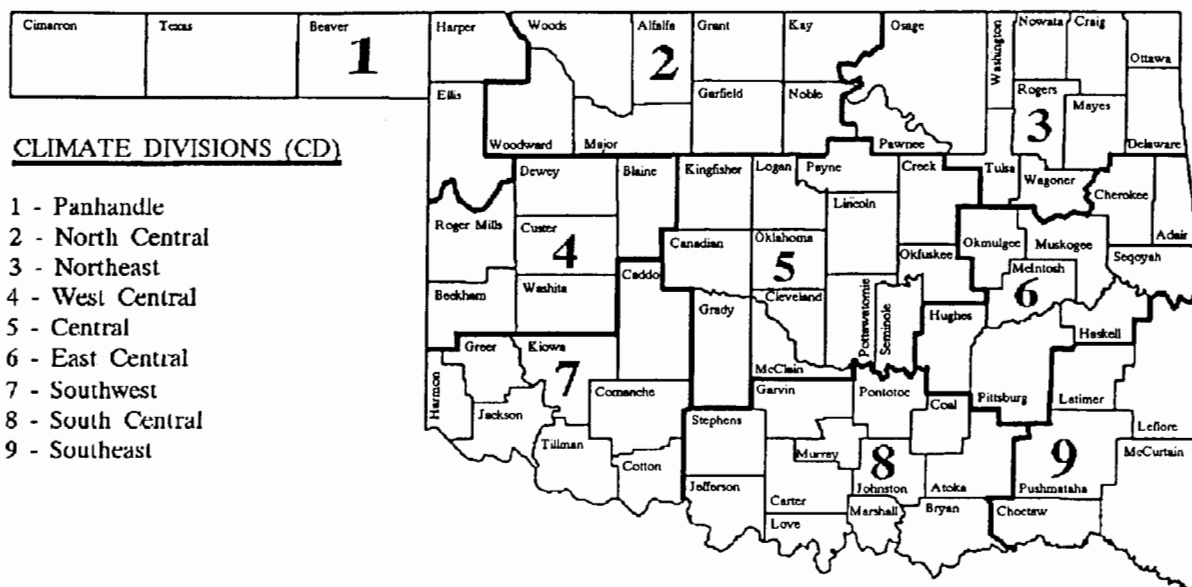
OKLAHOMA CITY

DATE	SUNRISE	SUNSET	DAYLIGHT
96 6 1	5:18AM	7:38PM cst	14 hrs 19 mins
96 6 2	5:18AM	7:38PM cst	14 hrs 20 mins
96 6 3	5:18AM	7:39PM cst	14 hrs 21 mins
96 6 4	5:18AM	7:40PM cst	14 hrs 22 mins
96 6 5	5:18AM	7:40PM cst	14 hrs 23 mins
96 6 6	5:17AM	7:41PM cst	14 hrs 23 mins
96 6 7	5:17AM	7:41PM cst	14 hrs 24 mins
96 6 8	5:17AM	7:42PM cst	14 hrs 24 mins
96 6 9	5:17AM	7:42PM cst	14 hrs 25 mins
96 6 10	5:17AM	7:43PM cst	14 hrs 26 mins
96 6 11	5:17AM	7:43PM cst	14 hrs 26 mins
96 6 12	5:17AM	7:43PM cst	14 hrs 26 mins
96 6 13	5:17AM	7:44PM cst	14 hrs 27 mins
96 6 14	5:17AM	7:44PM cst	14 hrs 27 mins
96 6 15	5:17AM	7:45PM cst	14 hrs 28 mins
96 6 16	5:17AM	7:45PM cst	14 hrs 28 mins
96 6 17	5:17AM	7:45PM cst	14 hrs 28 mins
96 6 18	5:17AM	7:46PM cst	14 hrs 28 mins
96 6 19	5:18AM	7:46PM cst	14 hrs 28 mins
96 6 20	5:18AM	7:46PM cst	14 hrs 28 mins
96 6 21	5:18AM	7:46PM cst	14 hrs 28 mins
96 6 22	5:18AM	7:46PM cst	14 hrs 28 mins
96 6 23	5:18AM	7:47PM cst	14 hrs 28 mins
96 6 24	5:19AM	7:47PM cst	14 hrs 28 mins
96 6 25	5:19AM	7:47PM cst	14 hrs 28 mins
96 6 26	5:19AM	7:47PM cst	14 hrs 28 mins
96 6 27	5:20AM	7:47PM cst	14 hrs 28 mins
96 6 28	5:20AM	7:47PM cst	14 hrs 27 mins
96 6 29	5:20AM	7:47PM cst	14 hrs 27 mins
96 6 30	5:21AM	7:47PM cst	14 hrs 27 mins

TULSA

DATE	SUNRISE	SUNSET	DAYLIGHT
96 6 1	5:10AM	7:33PM cst	14 hrs 23 mins
96 6 2	5: 9AM	7:34PM cst	14 hrs 24 mins
96 6 3	5: 9AM	7:34PM cst	14 hrs 25 mins
96 6 4	5: 9AM	7:35PM cst	14 hrs 26 mins
96 6 5	5: 9AM	7:35PM cst	14 hrs 27 mins
96 6 6	5: 8AM	7:36PM cst	14 hrs 27 mins
96 6 7	5: 8AM	7:36PM cst	14 hrs 28 mins
96 6 8	5: 8AM	7:37PM cst	14 hrs 29 mins
96 6 9	5: 8AM	7:37PM cst	14 hrs 29 mins
96 6 10	5: 8AM	7:38PM cst	14 hrs 30 mins
96 6 11	5: 8AM	7:38PM cst	14 hrs 30 mins
96 6 12	5: 8AM	7:39PM cst	14 hrs 31 mins
96 6 13	5: 8AM	7:39PM cst	14 hrs 31 mins
96 6 14	5: 8AM	7:40PM cst	14 hrs 31 mins
96 6 15	5: 8AM	7:40PM cst	14 hrs 32 mins
96 6 16	5: 8AM	7:40PM cst	14 hrs 32 mins
96 6 17	5: 8AM	7:41PM cst	14 hrs 32 mins
96 6 18	5: 8AM	7:41PM cst	14 hrs 32 mins
96 6 19	5: 9AM	7:41PM cst	14 hrs 33 mins
96 6 20	5: 9AM	7:41PM cst	14 hrs 33 mins
96 6 21	5: 9AM	7:42PM cst	14 hrs 33 mins
96 6 22	5: 9AM	7:42PM cst	14 hrs 33 mins
96 6 23	5: 9AM	7:42PM cst	14 hrs 33 mins
96 6 24	5:10AM	7:42PM cst	14 hrs 32 mins
96 6 25	5:10AM	7:42PM cst	14 hrs 32 mins
96 6 26	5:10AM	7:42PM cst	14 hrs 32 mins
96 6 27	5:11AM	7:43PM cst	14 hrs 32 mins
96 6 28	5:11AM	7:43PM cst	14 hrs 32 mins
96 6 29	5:11AM	7:43PM cst	14 hrs 31 mins
96 6 30	5:12AM	7:43PM cst	14 hrs 31 mins

# OKLAHOMA



## 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 the average temperature for the day is less than 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 exceeds 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 1996

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
80.7 max 61.7 min 25 ppt 0 hdd 7 cdd	81.5 max 62.1 min 24 ppt 1 hdd 7 cdd	81.5 max 61.9 min 23 ppt 0 hdd 7 cdd	82.8 max 62.6 min 21 ppt 0 hdd 8 cdd	83.8 max 63.6 min 11 ppt 0 hdd 9 cdd	85.2 max 64.0 min 9 ppt 0 hdd 10 cdd	86.6 max 64.9 min 11 ppt 0 hdd 11 cdd
Highest Max 96-1913	Highest Max 97-1910	Highest Max 96-1953	Highest Max 95-1913	Highest Max 99-1917	Highest Max 102-1911	Highest Max 100-1911
Lowest Max 56-1903	Lowest Max 56-1919	Lowest Max 64-1919	Lowest Max 62-1928	Lowest Max 66-1892	Lowest Max 69-1993	Lowest Max 66-1891
Lowest Min 46-1982	Lowest Min 46-1917	Lowest Min 49-1919	Lowest Min 47-1954	Lowest Min 46-1919	Lowest Min 52-1917	Lowest Min 51-1993
Highest Min 75-1943	Highest Min 74-1980	Highest Min 75-1925	Highest Min 75-1911	Highest Min 75-1980	Highest Min 75-1990	Highest Min 78-1980
Greatest ppt 3.37-1962	Greatest ppt 1.66-1873	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
87.2 max 66.4 min 18 ppt 0 hdd 12 cdd	86.2 max 66.0 min 11 ppt 0 hdd 11 cdd	86.4 max 64.9 min 17 ppt 0 hdd 11 cdd	86.6 max 66.0 min 12 ppt 0 hdd 11 cdd	87.0 max 66.3 min 10 ppt 0 hdd 12 cdd	87.4 max 66.7 min 15 ppt 0 hdd 12 cdd	88.5 max 67.2 min 18 ppt 0 hdd 13 cdd
Highest Max 100-1988	Highest Max 100-1933	Highest Max 99-1934	Highest Max 100-1955	Highest Max 104-1953	Highest Max 101-1924	Highest Max 106-1953
Lowest Max 64-1913	Lowest Max 60-1913	Lowest Max 66-1955	Lowest Max 66-1898	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 51-1925	Lowest Min 50-1896	Lowest Min 52-1906	Lowest Min 51-1947
Highest Min 76-1984	Highest Min 77-1953	Highest Min 76-1963	Highest Min 76-1953	Highest Min 78-1953	Highest Min 78-1958	Highest Min 78-1953
Greatest ppt 2.60-1974	Greatest ppt 2.56-1936	Greatest ppt 4.48-1946	Greatest ppt 1.61-1951	Greatest ppt 4.74-1944	Greatest ppt 4.66-1989	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
87.8 max 66.5 min 10 ppt 0 hdd 12 cdd	86.7 max 66.3 min 18 ppt 0 hdd 12 cdd	87.9 max 66.5 min 07 ppt 0 hdd 12 cdd	88.8 max 68.0 min 06 ppt 0 hdd 13 cdd	89.4 max 67.8 min 09 ppt 0 hdd 14 cdd	89.8 max 67.6 min 22 ppt 0 hdd 14 cdd	89.8 max 68.4 min 25 ppt 0 hdd 14 cdd
Highest Max 105-1953	Highest Max 106-1911	Highest Max 102-1924	Highest Max 101-1926	Highest Max 101-1953	Highest Max 105-1953	Highest Max 104-1953
Lowest Max 71-1906	Lowest Max 70-1901	Lowest Max 69-1963	Lowest Max 66-1912	Lowest Max 70-1920	Lowest Max 71-1905	Lowest Max 69-1902
Lowest Min 55-1969	Lowest Min 50-1917	Lowest Min 53-1912	Lowest Min 53-1912	Lowest Min 55-1926	Lowest Min 51-1976	Lowest Min 56-1906
Highest Min 79-1953	Highest Min 77-1953	Highest Min 78-1990	Highest Min 78-1924	Highest Min 80-1953	Highest Min 77-1990	Highest Min 79-1953
Greatest ppt 3.01-1930	Greatest ppt 3.59-1955	Greatest ppt 1.65-1975	Greatest ppt .99-1957	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
90.0 max 68.2 min 16 ppt 0 hdd 14 cdd	88.3 max 67.8 min 20 ppt 0 hdd 13 cdd	88.4 max 68.3 min 14 ppt 0 hdd 13 cdd	88.7 max 68.3 min 21 ppt 0 hdd 14 cdd	89.5 max 68.3 min 11 ppt 0 hdd 14 cdd	91.0 max 68.3 min 04 ppt 0 hdd 15 cdd	91.3 max 68.9 min 14 ppt 0 hdd 15 cdd
Highest Max 107-1936	Highest Max 101-1934	Highest Max 104-1911	Highest Max 105-1980	Highest Max 104-1918	Highest Max 103-1994	Highest Max 105-1980
Lowest Max 73-1912	Lowest Max 68-1921	Lowest Max 74-1909	Lowest Max 66-1967	Lowest Max 69-1904	Lowest Max 73-1904	Lowest Max 78-1923
Lowest Min 50-1902	Lowest Min 58-1958	Lowest Min 51-1974	Lowest Min 51-1974	Lowest Min 60-1958	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 78-1966
Greatest ppt 2.38-1957	Greatest ppt 2.79-1908	Greatest ppt 2.06-1948	Greatest ppt 2.29-1960	Greatest ppt 1.70-1955	Greatest ppt 2.19-1907	Greatest ppt 3.10-1989
Normal 29 Actual	Normal 30 Actual					
91.8 max 69.7 min 06 ppt 0 hdd 16 cdd	91.8 max 70.4 min 08 ppt 0 hdd 16 cdd					
Highest Max 103-1925	Highest Max 102-1925					
Lowest Max 76-1908	Lowest Max 73-1923					
Lowest Min 54-1923	Lowest Min 58-1923					
Highest Min 78-1947	Highest Min 80-1980					
Greatest ppt 2.00-1987	Greatest ppt 2.33-1981					

JUNE AVERAGES

TEMPERATURE : 76.9°F  
 PRECIPITATION : 4.36"  
 HEATING DEGREE DAYS : 1  
 COOLING DEGREE DAYS : 362

TULSA CLIMATE CALENDAR

JUNE 1996

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.

Normal	Actual	Normal	Actual	Normal	Actual	Normal	Actual	Normal	Actual	Normal	Actual	Normal	Actual	Normal	Actual	
82.0 max 62.0 min 2.1 ppt 0 7 cdd	1 Actual	81.0 max 63.0 min .28 ppt 0 8 cdd	2 Actual	82.0 max 63.0 min .13 ppt 0 8 cdd	3 Actual	84.0 max 64.0 min .16 ppt 0 10 cdd	4 Actual	84.0 max 65.0 min .24 ppt 0 10 cdd	5 Actual	86.0 max 65.0 min .20 ppt 0 11 cdd	6 Actual	87.0 max 66.0 min .15 ppt 0 12 cdd	82.0 max 68.0 min .21 ppt 0 13 cdd	8 Actual	87.0 max 67.0 min .12 ppt 0 12 cdd	9 Actual
Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	98-1934 71-1957 51-1982 77-1980 283-1963	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	102-1911 61-1970 49-1907 76-1980 2,14-1973	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	101-1911 59-1970 52-1946 73-1985 1,67-1982	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	100-1924 72-1995 54-1955 75-1955 2,07-1967	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	99-1953 73-1985 49-1919 76-1980 3,11-1962	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	106-1911 74-1983 54-1950 80-1968 2,65-1974	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	104-1911 75-1971 52-1915 76-1984 4,90-1974	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	105-1911 66-1989 56-1978 79-1981 2,84-1979	
Normal	Actual	Normal	Actual	Normal	Actual	Normal	Actual	Normal	Actual	Normal	Actual	Normal	Actual	Normal	Actual	
89.0 max 68.0 min .19 ppt 0 13 cdd	15 Actual	87.0 max 67.0 min .08 ppt 0 12 cdd	16 Actual	88.0 max 67.0 min .17 ppt 0 13 cdd	17 Actual	90.0 max 69.0 min .10 ppt 0 15 cdd	18 Actual	89.0 max 69.0 min .06 ppt 0 14 cdd	19 Actual	90.0 max 70.0 min .15 ppt 0 15 cdd	20 Actual	91.0 max 69.0 min .07 ppt 0 15 cdd	89.0 max 68.0 min .24 ppt 0 15 cdd	15 Actual	87.0 max 67.0 min .08 ppt 0 12 cdd	16 Actual
Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	102-1924 71-1991 52-1933 77-1980 2,66-1981	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	106-1911 74-1981 50-1917 78-1953 ,83-1958	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	104-1918 78-1976 54-1912 80-1953 1,50-1978	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	100-1918 76-1973 51-1912 80-1953 ,87-1992	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	106-1918 76-1973 51-1912 80-1953 ,87-1992	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	107-1918 77-1981 53-1976 77-1984 1,45-1978	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	102-1924 71-1991 52-1933 77-1980 2,66-1981	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	105-1911 66-1989 56-1978 79-1981 2,84-1979	
Normal	Actual	Normal	Actual	Normal	Actual	Normal	Actual	Normal	Actual	Normal	Actual	Normal	Actual	Normal	Actual	
90.0 max 69.0 min .14 ppt 0 15 cdd	22 Actual	88.0 max 69.0 min .26 ppt 0 14 cdd	23 Actual	89.0 max 70.0 min .09 ppt 0 14 cdd	24 Actual	89.0 max 70.0 min .18 ppt 0 15 cdd	25 Actual	90.0 max 70.0 min .15 ppt 0 15 cdd	26 Actual	91.0 max 69.0 min .07 ppt 0 15 cdd	27 Actual	91.0 max 70.0 min .17 ppt 0 16 cdd	90.0 max 69.0 min .14 ppt 0 15 cdd	22 Actual	88.0 max 69.0 min .26 ppt 0 14 cdd	23 Actual
Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	106-1936 80-1965 56-1935 77-1984 1,67-1985	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	103-1934 69-1948 57-1920 77-1950 2,79-1995	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	104-1933 77-1982 55-1974 80-1980 1,12-1986	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	105-1933 70-1987 52-1974 80-1980 1,98-1987	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	106-1918 75-1968 53-1974 80-1978 2,77-1948	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	102-1980 76-1985 53-1988 80-1980 1,15-1956	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	106-1936 80-1965 56-1935 77-1984 1,67-1985	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	103-1934 69-1948 57-1920 77-1950 2,79-1995	
Normal	Actual	Normal	Actual	Normal	Actual	Normal	Actual	Normal	Actual	Normal	Actual	Normal	Actual	Normal	Actual	
92.0 max 71.0 min .06 ppt 0 17 cdd	29 Actual	91.0 max 72.0 min .14 ppt 0 17 cdd	30 Actual	91.0 max 72.0 min .14 ppt 0 17 cdd	31 Actual	91.0 max 72.0 min .14 ppt 0 17 cdd	32 Actual	91.0 max 72.0 min .14 ppt 0 17 cdd	33 Actual	91.0 max 72.0 min .14 ppt 0 17 cdd	34 Actual	91.0 max 72.0 min .14 ppt 0 17 cdd	92.0 max 71.0 min .06 ppt 0 17 cdd	29 Actual	91.0 max 72.0 min .14 ppt 0 17 cdd	30 Actual
Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	105-1925 78-1905 57-1923 80-1980 1,99-1995	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	107-1925 76-1951 57-1943 80-1980 2,78-1951	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	107-1925 76-1951 57-1943 80-1980 2,78-1951	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	107-1925 76-1951 57-1943 80-1980 2,78-1951	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	107-1925 76-1951 57-1943 80-1980 2,78-1951	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	107-1925 76-1951 57-1943 80-1980 2,78-1951	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	105-1925 78-1905 57-1923 80-1980 1,99-1995	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	107-1925 76-1951 57-1943 80-1980 2,78-1951	

JUNE AVERAGES

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

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# THE OFFICIAL 1997 TWISTER TORNADO CALENDAR

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and much  
more!

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