

OKLAHOMA MONTHLY SUMMARY JULY 1997

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MONTHLY SUMMARY FOR JULY 1997

Locally heavy rainstorms across much of north central Oklahoma combined with a lack of rain in most of the south gave Oklahoma a near-normal statewide-averaged precipitation for July. The statewide-averaged precipitation of 2.63 inches was 0.01 inch greater than normal. By way of contrast within the state, stations in the north central, northeastern, and central climate divisions received, on average, 143 percent of their normal July precipitation, whereas those in the south central and southeastern divisions received only 41 and 36 percent of normal precipitation, respectively. Year-to-date precipitation, averaged across the state, totals 22.11 inches, 1.79 inches greater than normal.

Temperatures during the month were typical of July, with 100-degree daytime readings occurring somewhere in the state on most days. The statewide-averaged temperature for the month was 1.8 degrees, 0.3 degrees lower than normal. Consistent with the precipitation pattern, the rainy north central climate division was 1.1 degree cooler than normal while the dry southeast was 0.9 degree warmer than normal for the month. The year-to-date average temperature, averaged statewide, of 58.8 degrees is 0.9 degree lower than normal.

The month's highest temperatures were reported on the 1st when Buffalo (Harper County) reached 111 degrees and Oklahoma Mesonet sites near Alva (Woods) and Freedom (across the Cimarron River in Woodward County) registered 110 degrees. Widespread showers and thunderstorms heralded the onset of the 4th of July weekend. Heavy showers occurred from the 2nd through early morning of the 4th, most notably in east central Oklahoma where Okmulgee, Beggs (both in Okmulgee County), and Welty (Okfuskee) each reported over 3 inches of rain. Low temperatures reported on the 4th included a brisk 48 degrees at Boise City (Cimarron).

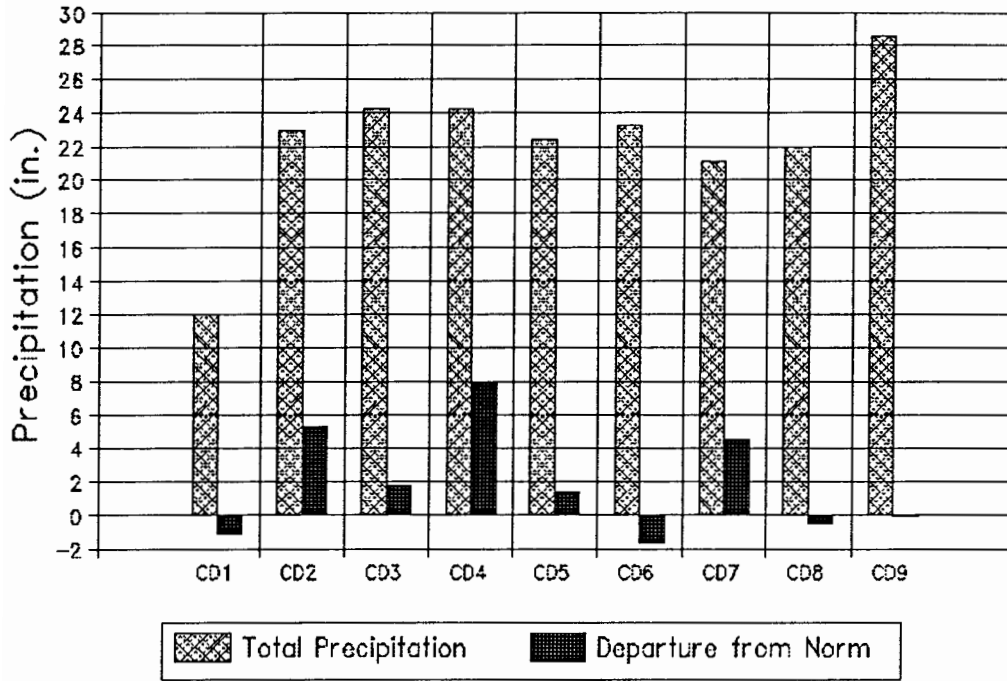
Summer temperatures, accompanied by typical summertime precipitation patterns returned to the state during the week following the holiday. Miami (Ottawa) reported over 3 inches of rain on the 9th which, combined with heavy rains in Kansas and Missouri, led to some flooding along the Neosho River. Over 7 inches of rain reportedly fell at Elgin (Comanche) on the 10th, leading to local flooding there. Muskogee (Muskogee County) reported 3.55 inches and the Acme Mesonet site (Grady) noted 3.35 inches, also on the 10th. Altus Dam (Kiowa) and Mangum Mesonet (Greer) reported 3.98 and 3.75 inches of rain, respectively, on the 11th. Additional localized street or creek flooding in low-lying areas was reported elsewhere in southwestern Oklahoma and also in Kay and Muskogee counties.

The primary weather story of the month was the extremely heavy rains that persisted across north central and northeastern Oklahoma from the 15th through the 22nd. The system actually announced itself on the 14th when thunderstorms in the Panhandle produced large hail in Texas County. There were widespread thunderstorms across northern and much of eastern Oklahoma on the 15th, producing hail and strong winds in many areas with localized flooding in Tulsa and Rogers counties. Baseball-sized hail fell at Nardin (Kay) and widespread flooding was reported elsewhere in Kay County where 6 to 8 inches of rain fell in the Ponca City area and across the Arkansas River in Osage County. The heavy rains began in earnest on the night of the 16th through the morning of the 17th. According to estimates based on National Weather Service radar, as much as 13 inches of rain fell overnight near Shidler (Osage) leading to serious flooding in western Osage County. Wind and flood damage were reported in Pawnee County where the Pawnee Mesonet site recorded a peak wind of 83 miles per hour and Ralston noted 10.25 inches of rain over two reporting days. Flooding from other heavy rain events was reported in Creek, Okmulgee, and Okfuskee counties. Heavy rain episodes continued through the 19th, extending flooding episodes into Alfalfa, Garfield, Grant, Lincoln, Noble, and Oklahoma counties. Lesser, but still significant rainfall continued on the 21st as Major and Logan counties were added to the list of counties in which flooding had occurred over the period. Additionally, lightning killed a man in Claremore (Rogers), and rain contributed to two traffic deaths elsewhere, all on the 21st. An apparent microburst caused extensive damage in Krebs (Pittsburg) on the 22nd. Overall 19 reporting locations, either National Weather Service or Oklahoma Mesonet reported accumulated rainfall of more than 5 inches from the 17th through the 22nd. The most prominent accumulations occurred in Kay, western Osage and northern Pawnee counties, including Ralston (11.30 inches), Blackwell Mesonet (Kay County, 8.65), Ponca City (8.26), and Burbank (Osage County, 8.13 inches). Additional 6 to 8 inch accumulations were noted at Red Rock (Noble, 7.35 inches), Maramec (Pawnee, 6.97), Great Salt Plains Dam (Alfalfa, 6.95), Helena (Alfalfa, 6.58), Stroud (Lincoln, 6.41), and Oilton (Creek, 6.00).

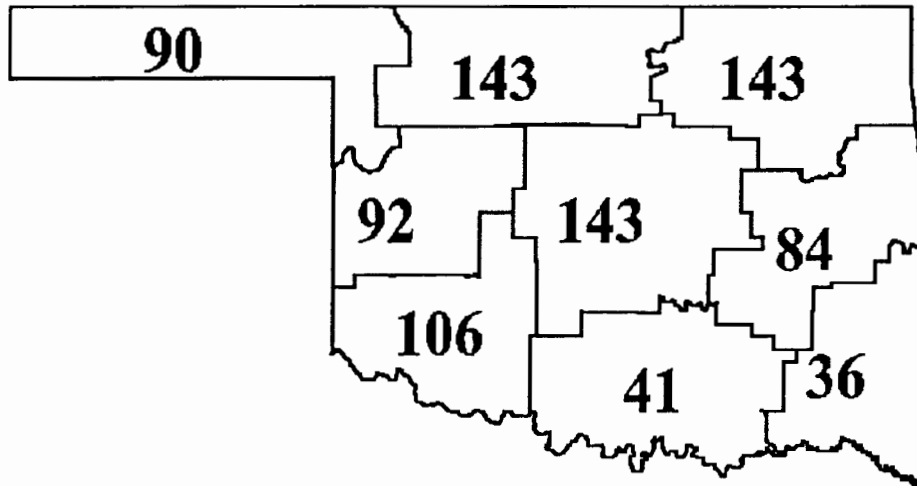
On the 29th and 30th, heavy rains reached the Panhandle, which had generally been getting less than its typical July rainfall. Hooker Mesonet (Texas) received 3.61 inches on the 29th and Guymon (Texas) noted a total of 4.84 inches in reports from the 29th through the 31st.

Howard L. Johnson

CD Averaged Precipitation January through July 1997

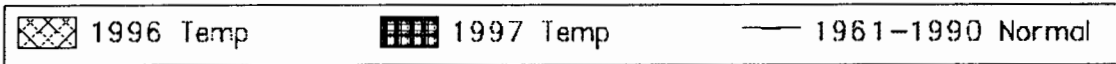
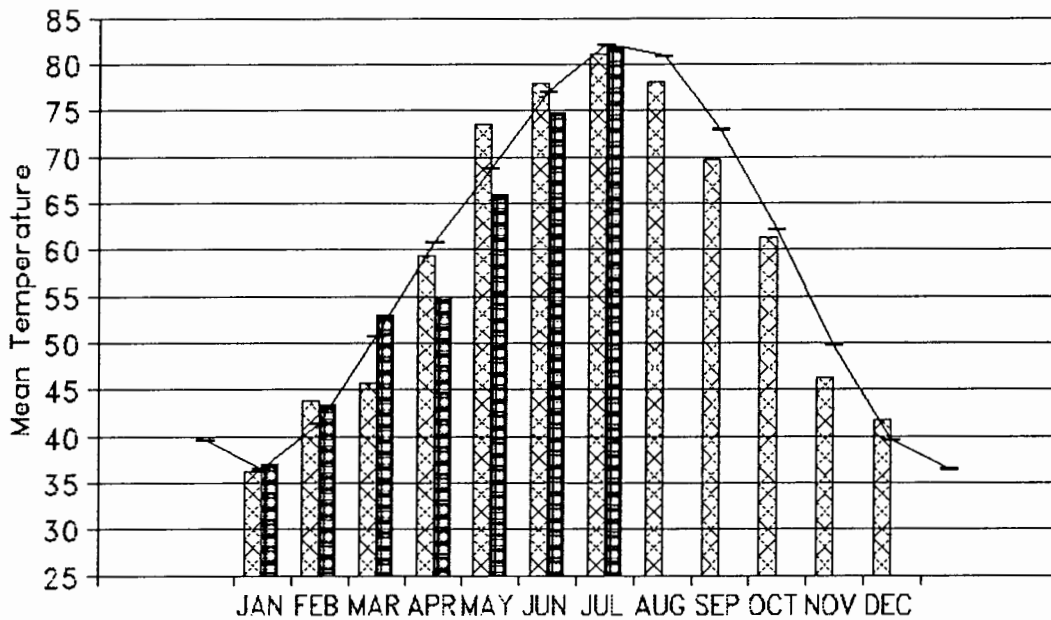


CD PERCENT OF NORMAL PRECIPITATION

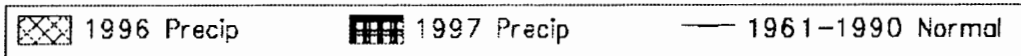
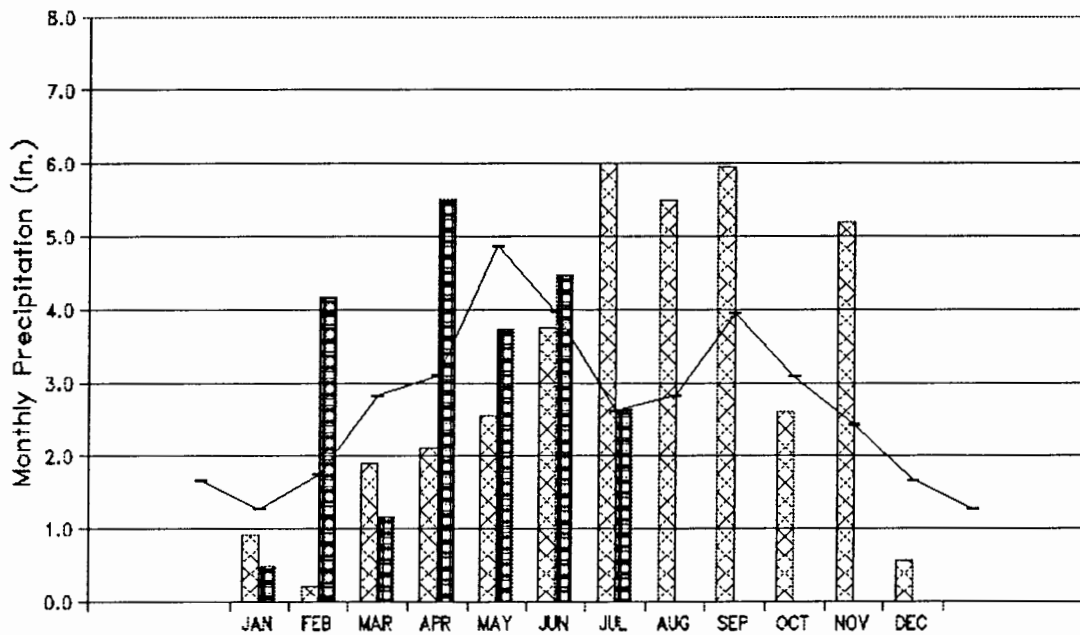


JULY 1997

1996 and 1997 STATEWIDE TEMPERATURES Monthly Averages



1996 and 1997 STATEWIDE PRECIPITATION Monthly Totals



EXTREME VALUES OF TEMPERATURE AND PRECIPITATION IN EACH CLIMATE DIVISION
JULY, 1997

CD	MAX TEMP	DATE	LOCATION	MIN TEMP	DATE	LOCATION	24-HOUR PRECIP	DATE	LOCATION	MONTHLY PRECIP	LOCATION
1	111	1	BUFFALO	50 50	4 5	BOISE CITY GAGE	2.47	31	GUYMON	4.94	GUYMON
2	109	2	FREEDOM	49	5	FREEDOM	6.55	19	HELENA	9.20	RED ROCK
3	104	24	UPPER SPAV	54 54	5 5	UPPER SPAV VINITA	7.15	18	RALSTON	13.83	RALSTON
4	103	1	TALOGA	53	5	TALOGA	2.20	19	WATONGA	3.65	WATONGA
5	103 103	25 29	PURCELL PURCELL	53 53	5 5	GUTHRIE PURCELL	6.00	19	OILTON	9.32	STROUD
6	106	28	MCCURTAIN	51	5	STILWELL	3.55	10	MUSKOGEE	8.26	OKMULGEE
7	104 104 104	28 29 1	CHATTANOOGA CHATTANOOGA HOBART	50	11	HOLLIS	3.98	12	ALTUS DAM	5.07	ALTUS DAM
8	105 105	25 14	ATOKA DAM WAURIKA DAM	53	5	MARLOW	2.04	30	BORCHITO	3.65	ALLEN
9	106	28	WILBURTON	54	3	SMITHVILLE	1.94	29	POTEAU	2.91	FANSHAWE

TABLE OF 1996/1997 COMPARISONS

Station	JULY Temperature (°F)		JULY Precipitation (in.)	
	1996	1997	1996	1997
Arnett	77.4	79.0	7.72	2.20
Mutual	79.5	81.5	7.88	0.62
Tulsa	81.4	81.7	1.09	5.63
Elk City	81.0	80.4	4.69	2.28
Oklahoma City	81.3	81.5	11.90	3.41
McAlester	81.6	82.5	5.59	0.14
Altus Irr Station	84.3	83.2	7.47	2.93
Ardmore	83.0	85.3	3.12	0.00
Idabel	79.1	82.3	10.84	0.78

EXTREMES

VARIABLE	STATION	DIVISION	OBSERVATION	DATE
Minimum temperature (°F)	Freedom	2	49	5
Maximum temperature (°F)	Buffalo	1	111	1
Maximum 24-hour precipitation	Ralston	3	7.15"	18

JULY 1997 SUMMARY FOR PANHANDLE DIVISION (CD1)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV		MIN TEMP	DAY	HEAT DEG	DEV FROM NORM	COOL DEG	DEV FROM NORM	TOT PPT	NUM OBS	DEV		DAY	
					FROM NORM	MAX TEMP									FROM NORM	MAX 24-HR		
ARNETT	332	1	79	31	-1.4	102	2	54	5	0	0	432.5	-44.5	2.2	31	0.31	1.42	6
BEAVER	593	1	81.1	31	0.4	105	3	51	6	0	0	500	13	1.08	31	-1.78	0.93	21
BOISE CITY	908	1	78.3	31	0.4	103	15	50	4	0	0	411	11	1.383	31	-1.37	0.73	20
BUFFALO	1243	1	84.2	31	1	111	1	54	5	0	0	594	30	0.82	31	-2.17	0.5	21
FARGO	3070	1	*****	0*	****	****	0	****	0	*****	*****	*****	*****	2.43	31	0.39	0.69	23
GAGE	3407	1	80.4	29*	****	101	13	50	5	0	*****	445.5	*****	1.472	29	*****	0.54	5
GATE	3489	1	81.3	31	-0.5	107	2	55	5	0	0	504	-17	1.031	31	-1.4	0.52	30
GOODWELL	3628	1	80.9	31	2.4	107	2	52	30	0	0	493	74	2.16	31	-0.36	1.08	29
GUYMON	3835	1	79.9	31*	****	105	16	55	9	0	*****	462.5	*****	4.94	31	*****	2.47	31
HOOKER	4298	1	78.9	15*	****	106	2	56	7	0	*****	208	*****	1.47	16	*****	0.93	6
KENTON	4766	1	78.1	26*	****	102	17	53	4	0	*****	340	*****	1.884	28	*****	0.86	29
LAVERNE	5045	1	*****	0*	****	****	0	****	0	*****	*****	*****	*****	2.441	31	-0.09	0.93	16
RANGE	7412	1	*****	0*	****	****	0	****	0	*****	*****	*****	*****	4.151	31	*****	1.25	15
REGNIER	7534	1	*****	0*	****	****	0	****	0	*****	*****	*****	*****	2.072	31	-0.27	1	21
TURPIN	9017	1	79.9	28*	****	107	2	54	4	0	*****	418.5	*****	2.41	28	*****	1.2	29

JULY 1997 SUMMARY FOR NORTH CENTRAL DIVISION (CD2)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV		MIN TEMP	DAY	HEAT DEG	DEV FROM NORM	COOL DEG	DEV FROM NORM	TOT PPT	NUM OBS	DEV		DAY	
					FROM NORM	MAX TEMP									FROM NORM	MAX 24-HR		
ALVA	193	2	83.7	31*	****	107	1	56	5	0	*****	579	*****	0.661	31	*****	0.35	20
VANCE AFB	302	2	*****	0*	****	****	0	****	0	*****	*****	*****	*****	2.861	29	*****	1.76	18
BILLINGS	755	2	81	31	-2.3	97	25	58	5	0	0	497.5	-69.5	6.073	31	2.94	3.4	19
BLACKWELL 2E	818	2	81	29*	****	99	27	57	5	0	*****	463.5	*****	8.37	31	5.23	2.73	17
BRAMAN	1075	2	*****	0*	****	****	0	****	0	*****	*****	*****	*****	5.5	31	*****	2.02	17
CEDARDALE	1620	2	*****	0*	****	****	0	****	0	*****	*****	*****	*****	1.853	31	*****	1.25	19
CHEROKEE	1724	2	84	31	-0.1	105	4	59	5	0	0	589.5	-2.5	3.61	31	0.87	3.2	19
ENID	2912	2	83.1	31	-0.2	100	1	60	5	0	0	560	-7	5.1	31	2.34	2.64	19
FT SUPPLY	3304	2	80.5	31	-0.2	103	2	56	5	0	0	481.5	-5.5	1.872	31	-0.32	0.57	28
FREEDOM	3358	2	81	31	-2	109	2	49	5	0	0	496	-62	1.82	31	-0.54	0.86	11
GREAT SALT P	3740	2	82.3	31	-0.7	102	14	59	5	0	0	537.5	-20.5	1.72	30	*****	0.43	11
HARDY	3909	2	*****	0*	****	****	0	****	0	*****	*****	*****	*****	2.37	31	*****	0.81	12
HELENA	4019	2	82.3	31	0.4	102	2	58	5	0	0	536.5	12.5	6.974	31	4.35	6.55	19
JEFFERSON	4573	2	82	31	-1.5	100	16	55	5	0	0	528	-46	3.42	31	0.09	1.81	18
LAMONT	5013	2	*****	0*	****	****	0	****	0	*****	*****	*****	*****	2.88	31	*****	1.66	19
MEDFORD	5768	2	*****	0*	****	****	0	****	0	*****	*****	*****	*****	3.602	31	*****	2.15	18
MUTUAL	6139	2	81.5	31	-0.3	106	2	55	5	0	0	511	-10	0.62	31	-1.73	0.24	19
NEWKIRK	6278	2	79.9	31	-2.6	97	25	56	5	0	0	461.5	-81.5	5.03	31	1.75	1.83	18
ORIENTA	6751	2	*****	0*	****	****	0	****	0	*****	*****	*****	*****	0.441	31	-2.16	0.42	16
PERRY	7012	2	83.5	27*	****	100	26	65	31	0	*****	499	*****	5.86	27	*****	2.2	19
PONCA CITY	7201	2	84	29*	****	102	24	62	5	0	*****	550	*****	8.621	30	*****	6.33	17
RED ROCK	7505	2	*****	0*	****	****	0	****	0	*****	*****	*****	*****	9.2	31	6.31	2.08	17
WAYNOKA	9404	2	83.5	27*	****	106	1	53	4	0	*****	500	*****	0.05	28	*****	0.05	11
WOODWARD	9760	2	*****	0*	****	****	0	****	0	*****	*****	*****	*****	0.233	31	-2.36	0.11	28

JULY 1997 SUMMARY FOR NORTHEAST DIVISION (CD3)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV				HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV		DAY	
					FROM NORM	MAX TEMP	DAY	MIN TEMP							DAY	FROM NORM		MAX 24-HR
BARNSDALL	535	3		29*	****	97	28	57	5	0	*****	444	*****	3.592	31	0.66	2.19	17
BARTLESVILLE	548	3	81.6	31	-0.5	98	27	56	5	0	0	515.5	-14.5	3.32	31	0.72	1.21	18
BIXBY	782	3	80.8	31	-0.2	98	29	58	6	0	0	490	-6	4.14	31	1.27	1.62	11
BURBANK	1256	3	*****	0*	****	****	0	****	0	*****	*****	*****	*****	8.022	31	4.78	6	17
CHELSEA	1717	3	*****	0*	****	****	0	****	0	*****	*****	*****	*****	1.68	31	*****	0.53	4
CLAREMORE	1828	3	80.3	31	-0.9	98	29	58	5	0	0	473	-29	2.73	31	-0.24	1.5	4
CLEVELAND 2	1902	3	80.4	17*	****	96	16	62	4	0	*****	262.5	*****	5.96	19	*****	4.6	18
FORAKER	3250	3	*****	0*	****	****	0	****	0	*****	*****	*****	*****	4.761	31	1.69	3.2	18
HOLLOW	4258	3	*****	0*	****	****	0	****	0	*****	*****	*****	*****	1.801	31	-1.36	0.7	4
HOMINY	4289	3	*****	0*	****	****	0	****	0	*****	*****	*****	*****	4.262	31	1.19	1.68	18
KANSAS	4672	3	79.9	31	0	98	28	55	5	0	0	461.5	-0.5	2.29	31	-0.32	0.87	4
LENAPAH	5118	3	*****	0*	****	****	0	****	0	*****	*****	*****	*****	2.24	31	*****	1	4
MANNFORD	5522	3	80.2	30	-1.8	96	28	57	5	0	0	455.5	-71.5	4.89	30	*****	1.78	18
MARAMEC	5540	3	*****	0*	****	****	0	****	0	*****	*****	*****	*****	8.02	31	5.23	5.6	18
MIAMI	5855	3	79.5	23*	****	96	24	61	4	0	*****	334	*****	4.33	26	*****	3.06	9
NOWATA	6485	3	81.2	31	-0.7	99	28	56	5	0	0	501.5	-22.5	0.961	31	-1.87	0.8	4
PAWHUSKA	6935	3	80.9	31	-0.7	96	23	57	5	0	0	493	-22	6.351	31	3.17	3.84	18
PAWNEE	6940	3	*****	0*	****	****	0	****	0	*****	*****	*****	*****	8.04	31	5.31	4.75	18
PRYOR	7309	3	81.2	31	0.5	98	29	56	5	0	0	503	16	2.552	31	-0.2	1.23	11
RALSTON	7390	3	80.7	31	-1.2	96	28	58	5	0	0	485.5	-38.5	13.83	31	10.89	7.15	18
SKIATOOK	8258	3	*****	0*	****	****	0	****	0	*****	*****	*****	*****	3.37	31	0.23	1.29	4
SPAVINAW	8380	3	82.7	31	0.7	99	29	58	5	0	0	548	21	1.6	31	-1.42	0.68	4
TULSA	8992	3	81.7	31	-1.6	98	28	59	5	0	0	517	-50	5.632	31	2.54	1.42	10
UPPER SPAV	9101	3	83.4	31*	****	104	24	54	5	0	*****	571.5	*****	1.32	31	*****	0.36	4
VINITA	9203	3	79.3	23*	****	95	23	54	5	0	*****	330	*****	3.67	23	*****	2.01	4
WAGONER	9247	3	81.5	31	-0.4	97	24	58	5	0	0	510	-14	4.241	31	1.41	2.23	11
WANN	9298	3	*****	0*	****	****	0	****	0	*****	*****	*****	*****	2.35	31	*****	1.3	4
WYNONA	9792	3	*****	0*	****	****	0	****	0	*****	*****	*****	*****	4.292	31	*****	2.91	18

JULY 1997 SUMMARY FOR WEST CENTRAL DIVISION (CD4)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV				HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV		DAY	
					FROM NORM	MAX TEMP	DAY	MIN TEMP							DAY	FROM NORM		MAX 24-HR
CLINTON	1909	4	82.3	31	-1.5	100	1	59	5	0	0	536	-47	1.74	31	-0.35	0.65	4
COLONY	2039	4	*****	0*	****	****	0	****	0	*****	*****	*****	*****	2.34	31	*****	0.75	23
CORDELL	2125	4	*****	0*	****	****	0	****	0	*****	*****	*****	*****	2.121	31	0.19	1.08	4
ELK CITY	2849	4	80.4	31	-1.5	99	1	58	5	0	0	478	-46	2.281	31	0.39	0.93	4
ERICK	2944	4	81.4	31	-0.3	101	2	57	4	0	0	507	-11	1.24	31	-0.45	0.54	4
GEARY	3497	4	82.2	30	0	100	2	63	4	0	0	517	-16	2.93	30	*****	1.58	23
HAMMON	3871	4	80.4	31	-1.6	99	2	57	5	0	0	478	-49	1.41	31	-0.58	0.76	4
LEEDEY	5090	4	*****	0*	****	****	0	****	0	*****	*****	*****	*****	1.96	31	0.18	0.56	6
MACKIE	5463	4	*****	0*	****	****	0	****	0	*****	*****	*****	*****	1.12	31	*****	0.28	18
MORAVIA	6035	4	*****	0*	****	****	0	****	0	*****	*****	*****	*****	1.42	31	-0.34	1.02	4
OKEENE	6629	4	83.2	31	-0.3	101	28	56	5	0	0	563.5	-10.5	2.161	31	-0.2	0.96	15
RETROP	7565	4	*****	0*	****	****	0	****	0	*****	*****	*****	*****	2.02	31	*****	0.86	12
REYDON	7579	4	80.6	19*	****	99	3	57	6	0	*****	295.5	*****	0.94	20	*****	0.57	6
SAYRE	7952	4	*****	0*	****	****	0	****	0	*****	*****	*****	*****	2.85	31	1.18	1.04	18
SWEETWATER	8652	4	*****	0*	****	****	0	****	0	*****	*****	*****	*****	1.121	31	*****	0.64	4
TALOGA	8708	4	81.8	31	-0.2	103	1	53	5	0	0	521	-6	0.542	31	-1.69	0.17	21
THOMAS	8815	4	*****	0*	****	****	0	****	0	*****	*****	*****	*****	2.52	31	*****	0.86	4
VICI	9172	4	*****	0*	****	****	0	****	0	*****	*****	*****	*****	0.611	31	-1.55	0.3	5
WATONGA	9364	4	81.6	31	-0.8	100	14	57	5	0	0	515.5	-23.5	3.65	31	1.38	2.2	19
WEATHERFORD	9422	4	81.7	29*	****	100	27	59	4	0	*****	484.5	*****	1.43	30	*****	0.71	10

JULY 1997 SUMMARY FOR CENTRAL DIVISION (CD5)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV					HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
					FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY									
AMBER	200	5	****	0*	****	****	0	****	0	*****	*****	*****	*****	1.6	31	****	1.33	4
ARCADIA	288	5	****	0*	****	****	0	****	0	*****	*****	*****	*****	3.24	31	****	2.1	18
BLANCHARD	830	5	82.2	31	-0.4	100	29	58	5	0	0	533.5	-12.5	0.851	31	-1.72	0.53	4
BRISTOW	1144	5	81.2	30	-0.8	98	29	55	5	0	0	485.5	-41.5	4.261	31	1.52	1.5	4
CHANDLER	1684	5	81.9	31	-0.6	99	14	58	5	0	0	525	-18	3.571	31	0.86	2.5	17
CHICKASHA EX	P 1750	5	83.7	31	0.8	102	27	59	5	0	0	580	25	0.72	31	-1.37	0.32	4
COX CITY	2196	5	****	0*	****	****	0	****	0	*****	*****	*****	*****	0.41	31	****	0.39	16
CRESCENT	2242	5	****	0*	****	****	0	****	0	*****	*****	*****	*****	3.09	31	****	1.3	18
CUSHING	2318	5	81.4	29*	****	98	25	60	5	0	*****	475	*****	4.78	29	****	2.66	18
EDMOND	2788	5	****	0*	****	****	0	****	0	*****	*****	*****	*****	3.63	31	****	1.42	17
EL RENO	2818	5	78.7	25*	****	99	15	47	22	0	*****	343.5	*****	6.79	31	4.51	2.17	22
GUTHRIE	3821	5	81.6	31	-1.7	99	14	53	5	0	0	514	-53	2.212	31	-0.12	1.3	18
HENNESSEY	4055	5	81.9	20*	****	101	27	58	5	0	*****	338.5	*****	3.051	26	****	1.25	19
INGALLS	4489	5	****	0*	****	****	0	****	0	*****	*****	*****	*****	5.642	31	****	3.19	18
KINGFISHER	4861	5	82.6	30	-0.8	100	14	57	5	0	0	528	-42	3.65	31	1.6	1.91	19
KONAWA	4915	5	****	0*	****	****	0	****	0	*****	*****	*****	*****	1.72	31	-0.3	1.5	18
MARSHALL	5589	5	****	0*	****	****	0	****	0	*****	*****	*****	*****	2.76	31	0.49	0.84	18
MEEKER	5779	5	81	29*	****	98	14	57	5	0	*****	463	*****	7.06	31	4.81	2.56	17
MULHALL	6110	5	****	0*	****	****	0	****	0	*****	*****	*****	*****	4.66	31	****	1.09	18
NORMAN NWS	6386	5	81.5	31	-0.7	98	28	57	5	0	0	510	-23	2.551	31	-0.21	1.3	4
OILTON	6616	5	****	0*	****	****	0	****	0	*****	*****	*****	*****	6.8	24	****	6	19
OKEMAH	6638	5	84.3	31	2.7	101	28	64	5	0	0	599	84	3.77	31	0.61	1.64	16
OKLAHOMA CTY	6661	5	81.5	31	-0.5	98	28	60	5	0	0	513	-14	3.412	31	0.8	1.2	4
PERKINS	7003	5	****	0*	****	****	0	****	0	*****	*****	*****	*****	5.51	31	2.85	3.15	18
PIEDMONT	7068	5	****	0*	****	****	0	****	0	*****	*****	*****	*****	2.56	31	****	0.6	4
PRAGUE	7264	5	****	0*	****	****	0	****	0	*****	*****	*****	*****	7.942	31	4.98	4.21	18
PURCELL	7327	5	81.8	31	-1	103	29	53	5	0	0	519.5	-32.5	0.6	31	-2.16	0.3	16
SEMINOLE	8042	5	81.5	31	-1.9	100	14	58	6	0	0	513	-57	3.582	31	1.06	2.25	17
SHAWNEE	8110	5	****	0*	****	****	0	****	0	*****	*****	*****	*****	3.82	31	1.65	2.68	18
STELLA	8479	5	****	0*	****	****	0	****	0	*****	*****	*****	*****	3.141	31	****	1.56	17
STILLWATER	8501	5	81.5	31	-0.1	98	29	58	5	0	0	512	-3	4.47	31	1.8	2.82	18
STROUD	8563	5	****	0*	****	****	0	****	0	*****	*****	*****	*****	9.32	31	****	5.5	18
TECUMSEH	8751	5	****	0*	****	****	0	****	0	*****	*****	*****	*****	2.88	31	****	1.95	18
TROUSDALE	8960	5	****	0*	****	****	0	****	0	*****	*****	*****	*****	0.97	31	****	0.9	18
UNION CITY	9086	5	****	0*	****	****	0	****	0	*****	*****	*****	*****	4.26	31	1.96	2.25	4
WELTY	9479	5	****	0*	****	****	0	****	0	*****	*****	*****	*****	4.821	31	****	3.1	4
WEWOKA	9575	5	****	0*	****	****	0	****	0	*****	*****	*****	*****	3.02	31	0.65	1.72	18

JULY 1997 SUMMARY FOR EAST CENTRAL DIVISION (CD6)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV					HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
					FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY									
ASHLAND	364	6	****	0*	****	****	0	****	0	*****	*****	*****	*****	1.9	31	****	1.45	25
BEGGS	631	6	****	0*	****	****	0	****	0	*****	*****	*****	*****	5.94	31	****	3.11	4
CALVIN	1391	6	****	0*	****	****	0	****	0	*****	*****	*****	*****	1.35	31	-1.72	1	4
CHECOTAH	1711	6	****	0*	****	****	0	****	0	*****	*****	*****	*****	2.131	31	-0.91	1.35	4
CLAYTON	1858	6	****	0*	****	****	0	****	0	*****	*****	*****	*****	1.6	31	****	0.9	20
DEWAR	2485	6	****	0*	****	****	0	****	0	*****	*****	*****	*****	3.053	31	-0.33	1.1	30
DUSTIN	2690	6	****	0*	****	****	0	****	0	*****	*****	*****	*****	0.83	31	****	0.31	15
EUFULA	2993	6	83.8	29*	****	101	28	59	5	0	*****	544	*****	2.721	29	****	1.9	22
HANNA	3884	6	81.4	31	-0.4	99	24	53	5	0	0	509	-12	3.171	31	0.36	1.64	23
HASKELL	3956	6	****	0*	****	****	0	****	0	*****	*****	*****	*****	3.39	31	0.78	1.35	11
HOLDENVILLE	4235	6	****	0*	****	****	0	****	0	*****	*****	*****	*****	1.55	31	-1.23	0.83	19
LAKE EUFAULA	4975	6	78.4	5*	****	97	29	64	1	0	*****	67	*****	2.8	31	****	1.84	22
LYONS	5437	6	****	0*	****	****	0	****	0	*****	*****	*****	*****	1.88	31	-1.03	0.83	4
MARBLE CITY	5546	6	****	0*	****	****	0	****	0	*****	*****	*****	*****	1.05	31	****	0.55	30
MCALESTER	5664	6	82.5	25*	****	102	28	58	5	0	*****	437	*****	0.143	28	****	0.11	6
MCCURTAIN	5693	6	82.3	31	-0.1	106	28	56	7	0	0	536	-3	1.391	31	-1.78	0.67	30
MUSKOGEE	6130	6	82.6	31	0.4	99	30	58	5	0	0	547	14	4.96	31	2.32	3.55	10
OKMULGEE	6670	6	79.9	24*	****	98	25	56	5	0	*****	357.5	*****	8.262	27	****	3.22	4
OKTAHA	6678	6	****	0*	****	****	0	****	0	*****	*****	*****	*****	3.77	31	****	1.93	4
QUINTON	7372	6	****	0*	****	****	0	****	0	*****	*****	*****	*****	1.152	31	-2.31	0.5	29
SALLISAW	7862	6	81.2	31	-0.6	101	29	58	5	0	0	502.5	-18.5	1.51	31	-1.49	1.27	30
SCPIO	7979	6	****	0*	****	****	0	****	0	*****	*****	*****	*****	0.79	31	****	0.28	18
SCRAPER	7993	6	****	0*	****	****	0	****	0	*****	*****	*****	*****	3.5	31	****	1.5	29
SHORT	8170	6	****	0*	****	****	0	****	0	*****	*****	*****	*****	2.86	31	****	1.37	30
STILWELL	8506	6	78.6	31	-1.3	95	28	51	5	0	0	422	-40	1.62	31	-1.43	0.72	30
TAHLEQUAH	8677	6	80.2	31	-0.3	96	27	53	5	0	0	472	-9	4.27	31	1.29	2.25	30
WEBBERS FALL	9445	6	82.8	31	1.1	105	29	56	5	0	0	551	33	1.402	31	-1.08	0.9	11
WESTVILLE	9523	6	****	0*	****	****	0	****	0	*****	*****	*****	*****	3.24	31	****	1.06	30
WETUMKA	9571	6	****	0*	****	****	0	****	0	*****	*****	*****	*****	0.781	31	-2.14	0.32	4

JULY 1997 SUMMARY FOR SOUTHWEST DIVISION (CD7)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV		DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV		DAY
					FROM NORM	MAX TEMP										FROM NORM	MAX 24-HR	
ALTUS	179	7	83.2	31	-1.3	102	28	62	4	0	0	565.5	-39.5	2.93	31	1.17	0.89	10
ALTUS DAM	184	7	83.2	31	-1	103	2	60	4	0	0	563	-32	5.07	31	3.16	3.98	12
ANADARKO	224	7	80.8	30	-2	97	25	56	5	0	0	473	-79	2.22	31	0.15	1.13	4
APACHE	260	7	*****	0*	****	****	0	****	0	*****	*****	*****	*****	3.05	31	1.02	2.75	11
ALTUS AFB	447	7	*****	0*	****	****	0	****	0	*****	*****	*****	*****	1.472	30	*****	0.73	11
CARNEGIE	1504	7	81.6	30	-1.8	98	28	59	4	0	0	496.5	-73.5	4.35	30	****	2.76	3
CHATTANOOGA	1706	7	85	31	0.7	104	29	61	5	0	0	619.5	21.5	0.13	31	-1.99	0.13	11
DUNCAN 11 W	2668	7	*****	0*	****	****	0	****	0	*****	*****	*****	*****	0.722	24	*****	0.72	6
FORT SILL	5068	7	83.7	31*	****	100	28	61	5	0	*****	579.5	*****	3.662	31	*****	3.35	10
FREDERICK	3353	7	84.3	31	-0.1	101	28	61	4	0	0	598	-3	0.4	31	-1.68	0.3	23
HEADRICK	3998	7	*****	0*	****	****	0	****	0	*****	*****	*****	*****	1.39	31	****	0.51	7
HOBART	4204	7	83.5	22*	****	104	1	59	5	0	*****	407	*****	0.505	27	*****	0.28	4
HOLLIS	4249	7	82	31	-2.2	102	28	50	11	0	0	528.5	-66.5	1.512	31	-0.11	0.74	12
LAWTON	5063	7	83.7	30	0.2	101	29	60	4	0	0	561.5	-12.5	4.17	30	*****	2.65	11
LOOKEBA	5329	7	*****	0*	****	****	0	****	0	*****	*****	*****	*****	3.28	31	1.39	1.33	22
MANGUM	5509	7	83.3	31	-0.9	102	1	60	4	0	0	568.5	-26.5	4.19	31	2.16	2.14	11
RANDLETT	7403	7	*****	0*	****	****	0	****	0	*****	*****	*****	*****	0.322	31	*****	0.29	23
ROOSEVELT	7727	7	*****	0*	****	****	0	****	0	*****	*****	*****	*****	1.34	31	-0.72	0.93	12
SEDAN	8016	7	*****	0*	****	****	0	****	0	*****	*****	*****	*****	2.65	31	*****	0.83	23
SNYDER	8299	7	*****	0*	****	****	0	****	0	*****	*****	*****	*****	1.56	31	-0.5	0.49	30
VINSON	9212	7	*****	0*	****	****	0	****	0	*****	*****	*****	*****	1.94	31	0.31	1.55	4
WALTERS	9278	7	84.3	31	0.2	103	28	60	5	0	0	598	6	1.3	31	-1.06	1.3	30
WICHITA MT	9629	7	82.5	29*	****	100	29	56	7	0	*****	508.5	*****	2.862	30	*****	2.3	30
WILLOW	9668	7	*****	0*	****	****	0	****	0	*****	*****	*****	*****	3.17	31	*****	1.22	4

JULY 1997 SUMMARY FOR SOUTH CENTRAL DIVISION (CD8)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV		DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV		DAY
					FROM NORM	MAX TEMP										FROM NORM	MAX 24-HR	
ADA	17	8	81.7	31	-0.5	97	28	56	5	0	0	516.5	-16.5	2.051	31	-0.36	1.53	19
ALLEN	147	8	*****	0*	****	****	0	****	0	*****	*****	*****	*****	3.65	31	*****	1.85	31
ARDMORE	292	8	85.3	31	1.3	101	29	62	4	0	0	628	39	0	31	-2.13	0	31
ATOKA DAM	394	8	84.9	22*	****	105	25	62	7	0	*****	437.5	*****	0.47	22	****	0.29	25
BOKCHITO	917	8	*****	0*	****	****	0	****	0	*****	*****	*****	*****	2.04	31	*****	2.04	30
CANEY	1437	8	*****	0*	****	****	0	****	0	*****	*****	*****	*****	0.78	31	****	0.58	16
CENTRAHOMA	1648	8	*****	0*	****	****	0	****	0	*****	*****	*****	*****	0.7	31	*****	0.7	19
CHICKSAW	1745	8	82.5	31	0.4	101	25	54	5	0	0	541.5	11.5	0.9	31	-1.77	0.6	25
COLEMAN	2011	8	*****	0*	****	****	0	****	0	*****	*****	*****	*****	1.09	31	*****	0.72	16
COMANCHE	2054	8	*****	0*	****	****	0	****	0	*****	*****	*****	*****	0.23	31	-1.72	0.08	22
DAISY	2354	8	*****	0*	****	****	0	****	0	*****	*****	*****	*****	1.042	31	-2.39	0.83	15
DUNCAN	2660	8	82.7	31	-0.4	99	29	62	5	0	0	549.5	-11.5	0.343	31	-1.91	0.34	16
DURANT	2678	8	83.5	28*	****	100	23	60	31	0	*****	517	*****	0.28	28	****	0.11	29
ELMORE CITY	2872	8	*****	0*	****	****	0	****	0	*****	*****	*****	*****	0.28	31	****	0.18	10
GRADY	3688	8	*****	0*	****	****	0	****	0	*****	*****	*****	*****	1.02	31	****	1.02	29
HEALDTON	4001	8	83.1	31	0.2	101	28	58	5	0	0	562.5	7.5	0.32	31	-1.65	0.26	16
HENNEPIN	4052	8	*****	0*	****	****	0	****	0	*****	*****	*****	*****	0.001	31	****	0	18
KETCHUM RAN	4780	8	*****	0*	****	****	0	****	0	*****	*****	*****	*****	0.19	31	****	0.12	4
KINGSTON	4865	8	*****	0*	****	****	0	****	0	*****	*****	*****	*****	3.011	31	0.9	1.62	30
LEHIGH	5108	8	*****	0*	****	****	0	****	0	*****	*****	*****	*****	0.7	31	****	0.3	19
LINDSAY	5216	8	82.3	31	-0.4	101	24	56	4	0	0	537	-12	0.61	31	-1.45	0.52	15
LOCO	5247	8	*****	0*	****	****	0	****	0	*****	*****	*****	*****	0.2	31	*****	0.2	22
MARIETTA	5563	8	83.2	31	0	100	28	63	5	0	0	564.5	0.5	1.511	31	-0.6	1.2	23
MARLOW	5581	8	82.7	31	0.4	104	28	53	5	0	0	547.5	11.5	0.19	31	-2.13	0.1	16
MCGEE CREEK	5713	8	83.6	30*	****	104	29	61	5	0	*****	557	*****	0.131	31	*****	0.09	24
PAULS VALLEY	6926	8	81.9	31	-1.4	102	28	55	5	0	0	523	-44	0.003	31	-2.26	0	23
PONTOTOC	7214	8	*****	0*	****	****	0	****	0	*****	*****	*****	*****	2.03	31	-0.51	0.87	22
TISHOMINGO	8884	8	83.7	31	0.4	104	23	57	5	0	0	580	13	1.11	31	-1.61	0.87	15
TUSSY	9032	8	*****	0*	****	****	0	****	0	*****	*****	*****	*****	0	31	****	0	31
WAURIKA	9395	8	85.7	30	1.4	105	14	64	4	0	0	620	22	1.09	31	-0.72	0.65	29
WAURIKA DAM	9399	8	83.7	30*	****	103	29	60	5	0	*****	560.5	*****	2.401	31	****	1.53	22

JULY 1997 SUMMARY FOR SOUTHEAST DIVISION (CD9)

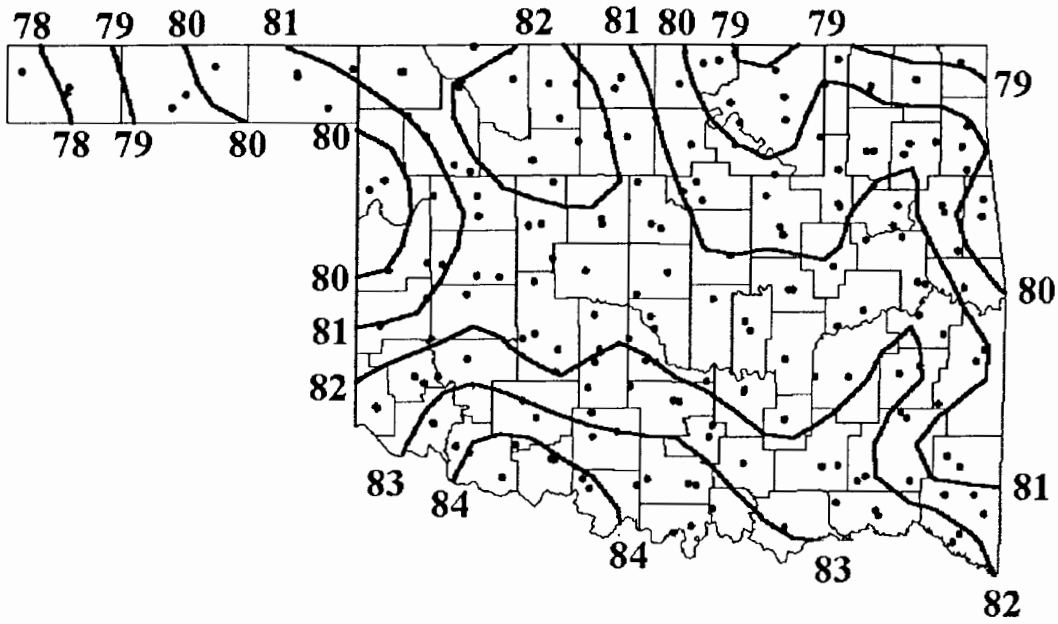
NAME	ID	CD	DEV					MIN	DAY	HEAT	DEV	COOL	DEV	TOT	NUM	DEV		
			MEAN	NUM	FROM	MAX	TEMP									DEG	FROM	DEG
ANTLERS	256	9	82.6	31	1.3	102	28	61	5	0	0	547	42	*****	0	*****	*****	0
BATTIEST	567	9	77.5	31 *	****	97	29	56	6	0	*****	388.5	*****	1.95	31	*****	1.03	29
BEAR MT	584	9	82.9	30	1.5	103	28	56	21	0	0	536.5	28.5	1.3	30	*****	0.8	7
BENGAL	670	9	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	0.96	31	*****	0.49	30
BOSWELL	980	9	82.5	31	0.6	101	28	63	5	0	0	543.5	19.5	0.67	31	-1.85	0.31	24
BROKEN BOW	1162	9	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	0.8	30	*****	0.54	6
BROKEN BOW D	1168	9	81.6	31	1.1	103	28	60	3	0	0	515.5	34.5	1.57	31	-2.33	0.91	29
CARNASAW	1499	9	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	1.25	31	-2.76	0.57	15
CARTER TWR	1544	9	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	1.13	31	-2.86	0.42	23
FANSHAWE	3065	9	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	2.91	31	-0.7	1.93	24
HEAVENER	4008	9	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	0.01	31	-3.43	0.01	28
HUGO	4384	9	83.5	30	1.2	103	29	64	5	0	0	555.5	19.5	0.29	31	-2.5	0.17	10
IDABEL	4451	9	82.3	31	1.4	102	29	62	6	0	0	535.5	42.5	0.782	31	-2.56	0.67	7
PAGE	6842	9	78.3	29 *	****	98	29	54	5	0	*****	384.5	*****	2.44	29	*****	1.69	30
POTEAU	7254	9	81.6	31 *	****	102	28	58	5	0	*****	514	*****	2.52	31	*****	1.94	29
SMITHVILLE	8285	9	79.1	25 *	****	99	29	54	3	0	*****	353	*****	2.182	29	*****	0.6	30
SPIRO	8416	9	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	2.81	31	-0.43	1.67	30
TUSKAHOMA	9023	9	82.6	31	0.9	104	28	56	5	0	0	545	27	0.39	31	-3.32	0.13	16
VALLIANT	9118	9	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	0.77	31	-2.69	0.61	7
WILBURTON	9634	9	82.7	31	1.5	106	28	57	5	0	0	550	48	1.05	31	-2.71	0.41	15
WISTER	9724	9	80.5	31 *	****	102	29	57	6	0	*****	482	*****	2.77	31	*****	2.25	30

JULY 1997 CLIMATE DIVISION SUMMARY

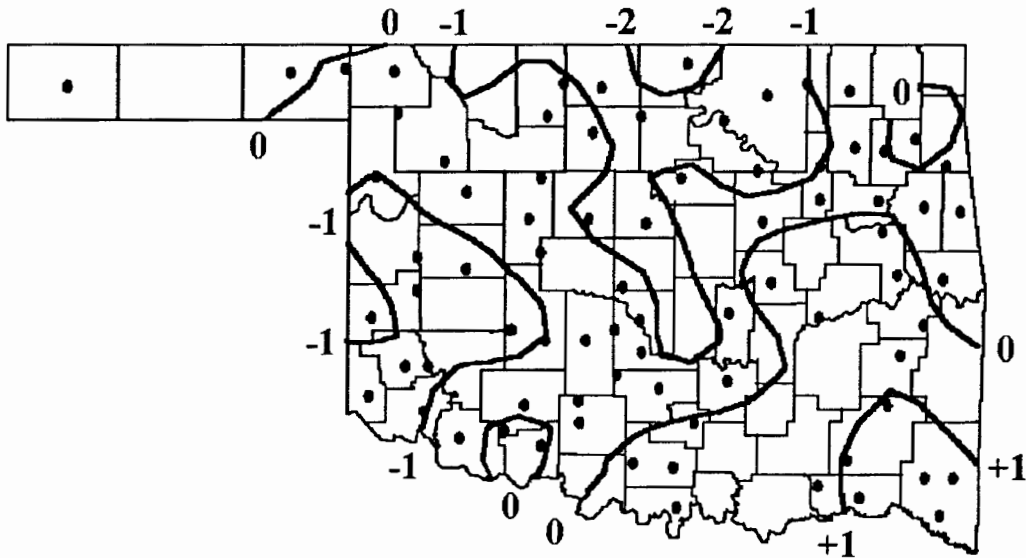
CD	MEAN	NUM	DEV		MIN	DAY	HEAT	DEV	COOL	DEV	TOT	NUM	DEV			
			FROM	MAX									STA	FROM	MAX	DAY
1	80.7	7	0.4	111	1	50	5	0	0	485.3	13.6	2.25	11	-0.24	2.47	31
2	81.9	11	-0.8	109	2	49	5	0	0	525.3	-23.5	3.66	19	0.85	6.55	19
3	81.2	13	-0.2	104	24	54	5	0	0	501.9	-8.7	4.22	24	1.27	7.15	18
4	81.7	8	-0.7	103	1	53	5	0	0	514.5	-23.4	1.83	17	-0.16	2.2	19
5	82.1	12	-0.3	103	29	47	22	0	0	527.7	-10.7	3.61	34	1.08	6	19
6	81.3	7	-0.3	106	28	51	5	0	0	505.6	-10.4	2.38	26	-0.56	3.55	10
7	83.2	11	-0.5	104	1	50	11	0	0	559.2	-21.6	2.23	18	0.23	3.98	12
8	83.2	13	0.3	105	14	53	5	0	0	560.6	5.3	0.95	29	-1.37	2.04	30
9	81.9	11	0.7	106	28	54	3	0	0	519.4	18.6	1.36	16	-2.18	2.25	30

MESONET MONTHLY SUMMARY FOR JULY 1997

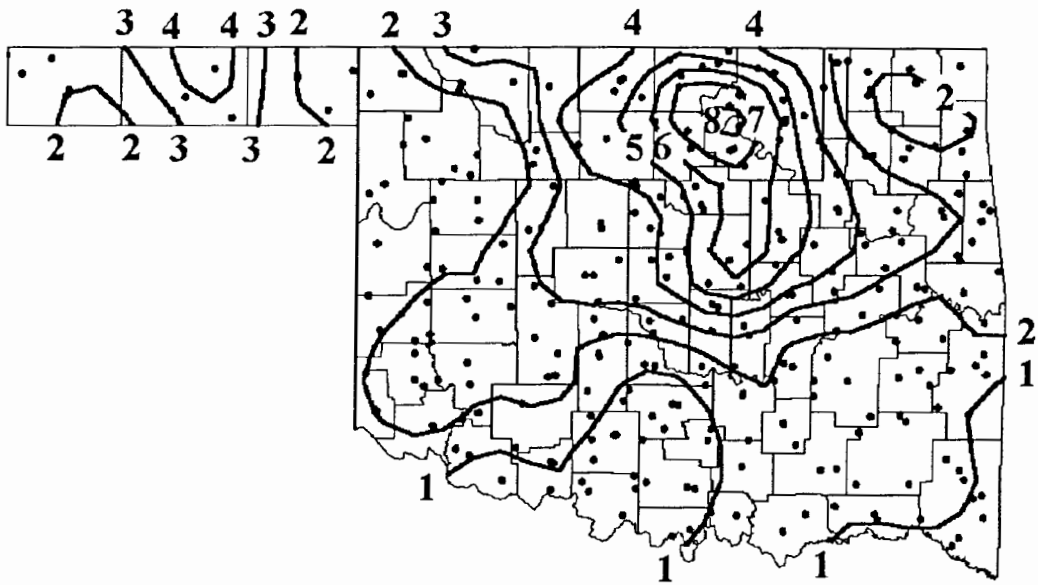
NAME	MEAN MAX		MIN		TOT MAX				NAME	MEAN MAX		MIN		TOT MAX							
	TEMP	TEMP	DAY	TEMP	DAY	HDD	CDD	PPT		24-HR	DAY	TEMP	TEMP	DAY	TEMP	DAY	HDD	CDD	PPT	24-HR	DAY
PANHANDLE																					
Arnett	79.7	101	1	53	5	0	456	1.15	.68	5	Goodwell	79.7	105	1	53	4	0	456	1.91	.96	29
Beaver	80.6	105	1	55	5	0	484	.86	.71	20	Hooker	80.4	107	1	54	4	0	477	5.69	3.61	29
Boise City	77.4	101	1	48	4	1	385	1.73	.63	20	Kenton	77.5	103	1	51	4	0	386	3.29	1.06	20
Buffalo	81.9	108	1	54	5	0	524	1.77	.56	5	Slapout	79.8	105	1	55	5	0	459	1.89	1.00	5
NORTH CENTRAL																					
Alva	83.3	110	1	56	5	0	567	.82	.29	20	May Ranch	80.8	104	1	59	4	0	488	5.21	2.37	10
Blackwell	80.4	98	8	57	5	0	478	10.01	3.46	19	Medford	81.4	101	1	57	5	0	508	3.11	2.61	19
Breckenridge	81.5	100	13	55	5	0	513	5.99	3.76	19	Newkirk	79.0	95	22	55	5	0	432	5.99	2.70	17
Cherokee	83.0	105	1	59	5	0	559	3.05	2.09	19	Red Rock	80.2	97	16	57	5	0	472	5.68	1.58	17
Fairview	83.4	104	1	57	5	0	571	1.00	.44	15	Seiling	82.0	104	1	54	5	0	526	.63	.33	19
Freedom	82.8	110	1	54	5	0	551	2.10	.64	29	Woodward	80.7	103	1	56	5	0	485	1.16	.49	5
Lahoma	81.5	102	1	57	5	0	513	5.53	3.04	19											
NORTHEAST																					
Bixby	81.1	98	28	58	5	0	498	3.11	.96	10	Nowata	79.2	97	23	55	5	0	441	1.20	.64	3
Burbank	79.0	95	23	55	5	0	432	8.76	6.36	17	Pawnee	79.8	98	24	58	5	0	460	7.33	3.61	17
Claremore	80.1	98	28	56	5	0	468	2.44	.74	10	Pryor	80.2	99	28	55	5	0	470	1.86	.77	3
Copan	79.5	97	24	55	5	0	448	2.41	1.04	17	Skiatook	79.3	95	24	57	5	0	443	5.27	2.07	15
Foraker	78.2	95	23	55	5	0	410	5.51	3.39	17	Tulahassee	81.4	100	28	56	5	0	509	2.21	.89	10
Jay	79.6	98	27	51	5	0	453	1.00	.20	24	Vinita	78.9	97	24	52	5	0	430	1.15	.56	3
Miami	79.1	96	24	53	5	0	436	3.67	.97	9	Wynona	79.3	96	23	57	5	0	444	4.52	2.42	17
WEST CENTRAL																					
Bessie	81.9	101	28	59	4	0	525	2.00	.83	4	Putnam	80.9	99	24	56	5	0	492	.56	.20	4
Butler	81.2	99	28	59	5	0	501	3.02	1.24	4	Retrop	81.2	98	1	59	4	0	501	3.38	1.06	11
Camargo	80.3	101	1	53	5	0	474	1.11	.65	5	Watonga	80.8	98	1	58	4	0	490	3.61	1.34	19
Cheyenne	79.5	97	1	57	4	0	450	*****	*****	*	Weatherford	81.9	100	16	58	4	0	522	1.31	.58	4
Erick	80.8	101	1	57	4	0	489	1.83	.86	4											
CENTRAL																					
Acme	81.9	99	14	55	5	0	525	3.82	3.35	10	Minco	81.0	99	28	59	4	0	495	1.44	.60	4
Bowlegs	80.6	99	28	56	5	0	485	2.82	2.10	18	Ninnekah	82.7	101	24	58	5	0	548	*****	*****	**
Bristow	80.1	97	24	56	5	0	467	4.07	1.22	29	Norman	82.0	100	24	59	5	0	527	1.95	.96	4
Chandler	80.3	97	14	59	5	0	474	7.03	3.14	18	Oilton	79.5	96	14	56	5	0	451	6.58	2.07	17
Chickasha	82.8	101	14	58	5	0	552	.79	.36	4	Okemah	81.3	99	24	58	5	0	504	2.98	1.43	4
El Reno	79.6	98	14	55	5	0	454	4.09	.90	21	Perkins	81.3	98	13	57	5	0	505	5.22	1.96	17
Guthrie	82.0	108	23	58	5	0	528	2.92	1.27	18	Shawnee	81.7	99	14	60	5	0	519	4.08	2.38	18
Kingfisher	82.3	102	14	56	5	0	537	4.32	2.27	19	Spencer	81.0	100	14	55	5	0	495	5.01	2.21	19
Marena	80.2	96	16	56	5	0	470	4.52	2.20	17	Stillwater	80.6	97	23	56	5	0	483	4.84	2.04	17
Marshall	82.1	101	23	54	5	0	529	2.33	.84	18	Washington	82.2	102	28	57	5	0	533	.20	.08	15
EAST CENTRAL																					
Calvin	81.5	100	28	58	5	0	511	1.64	.91	18	Sallisaw	79.3	102	28	55	5	0	444	1.72	1.53	29
Cookson	79.7	97	26	53	5	0	456	2.74	1.05	4	Stigler	81.8	102	28	57	5	0	519	.96	.68	29
Eufaula	81.6	100	28	59	5	0	516	2.37	.81	4	Stuart	81.1	100	28	57	5	0	498	1.14	.44	20
Haskell	80.9	99	24	57	5	0	491	4.18	1.88	4	Tahlequah	79.9	97	28	57	5	0	461	2.75	1.22	29
McAlester	81.8	101	24	58	5	0	522	.83	.51	15	Webbers Falls	82.4	101	25	58	5	0	538	1.72	1.12	29
Okmulgee	80.5	98	28	57	5	0	480	5.49	2.34	4	Westville	78.8	95	24	54	5	0	429	3.38	1.41	29
SOUTHWEST																					
Altus	83.1	101	14	61	5	0	561	2.50	1.46	10	Hollis	82.8	102	28	61	4	0	552	1.88	.67	18
Apache	81.0	97	24	57	5	0	497	2.69	2.21	10	Mangum	81.3	99	1	59	5	0	505	5.52	3.75	11
Fort Cobb	81.7	99	1	59	4	0	517	1.71	.82	4	Medicine Park	82.8	100	24	59	4	0	552	2.88	1.68	29
Grandfield	84.4	104	14	60	5	0	602	.79	.39	29	Tipton	84.2	102	14	62	4	0	596	.88	.37	10
Hinton	81.2	99	14	58	5	0	501	3.09	2.10	21	Walters	84.9	105	14	59	5	0	617	2.09	1.80	29
Hobart	83.0	101	1	58	5	0	559	3.04	2.17	11											
SOUTH CENTRAL																					
Ada	82.0	100	14	56	5	0	528	2.26	2.24	18	Lane	82.0	101	24	59	5	0	528	.97	.77	24
Ardmore	83.1	100	23	60	5	0	562	.04	.03	10	Madill	84.2	102	28	62	4	0	595	.05	.05	10
Burneyville	83.4	102	24	59	5	0	569	.15	.09	15	Pauls Valley	83.0	101	24	58	5	0	558	.41	.36	21
Byars	81.6	99	24	55	5	0	514	1.15	.95	18	Ringling	83.6	102	24	59	5	0	576	.08	.07	4
Centrahoma	81.7	102	28	55	5	0	518	1.08	.77	18	Sulphur	82.6	102	28	57	5	0	545	.39	.18	22
Durant	83.0	101	23	62	5	0	556	1.01	.53	29	Tishomingo	82.1	101	24	60	5	0	530	1.14	.55	29
Ketchum Ranch	83.0	101	14	58	5	0	559	.23	.15	4	Waurika	84.5	104	14	60	5	0	605	1.45	1.02	29
SOUTHEAST																					
Antlers	81.4	102	28	58	4	0	508	2.44	1.31	29	Idabel	82.0	102	28	65	5	0	526	1.09	.62	15
Broken Bow	81.8	102	28	62	5	0	520	.16	.11	6	Mt Herman	79.9	98	28	58	5	0	460	1.11	.66	6
Clayton	82.4	103	27	58	5	0	538	.92	.78	28	Talihina	81.6	104	28	58	5	0	514	.89	.27	29
Cloudy	80.5	100	28	62	4	0	480	3.02	1.51	29	Wilburton	82.2	103	24	57	5	0	533	.32	.17	4
Hugo	82.7	101	28	63	5	0	547	.68	.33	29	Wister	81.3	103	28	57	5	0	506	2.82	2.22	29



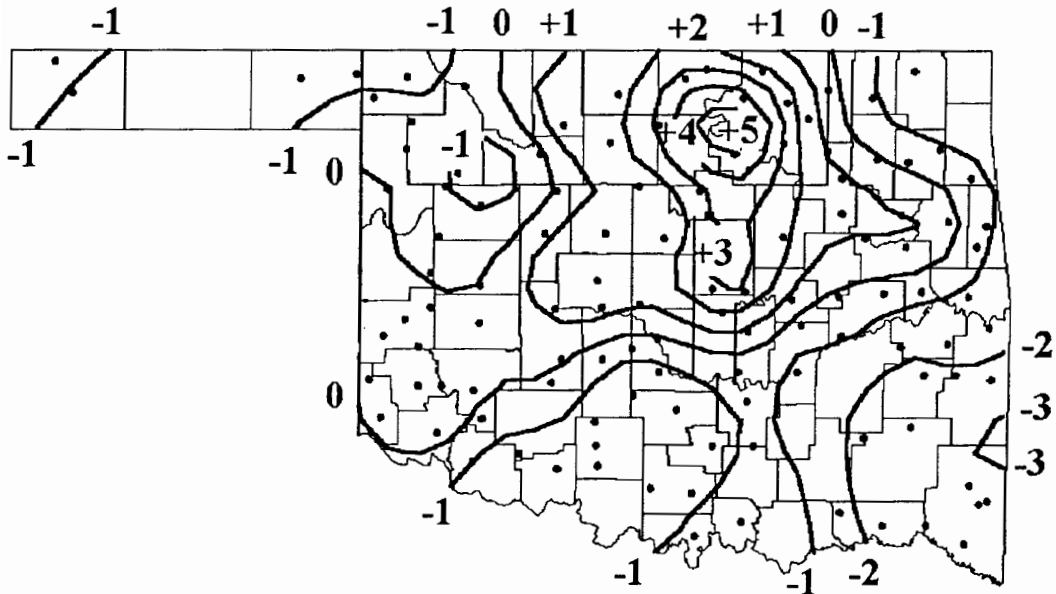
JULY 1997 AVERAGE MONTHLY TEMPERATURE (°F)



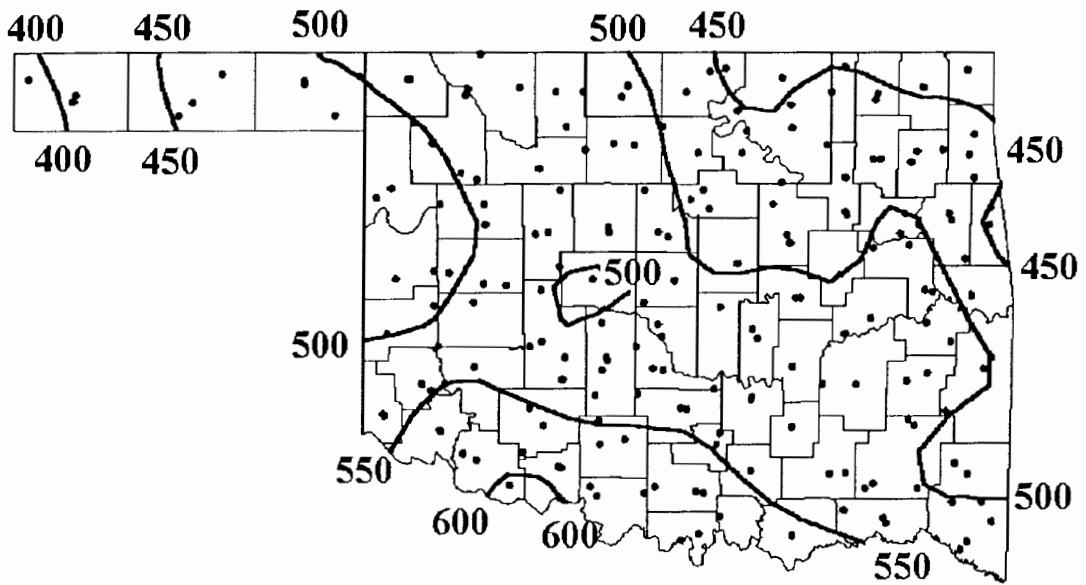
JULY 1997 DEPARTURE FROM NORMAL TEMPERATURE (°F)



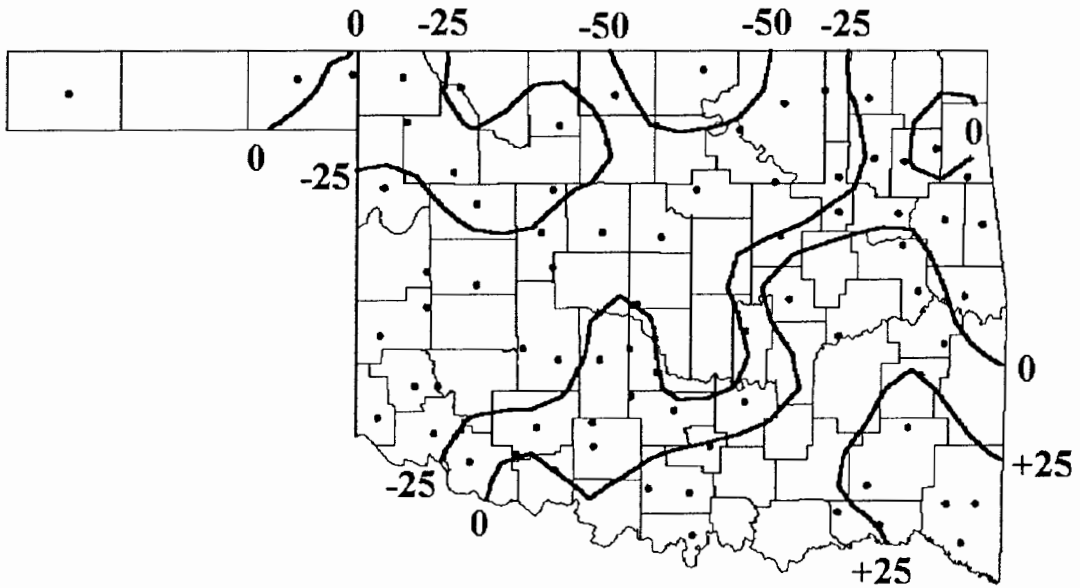
**JULY 1997 TOTAL PRECIPITATION
(INCHES)**



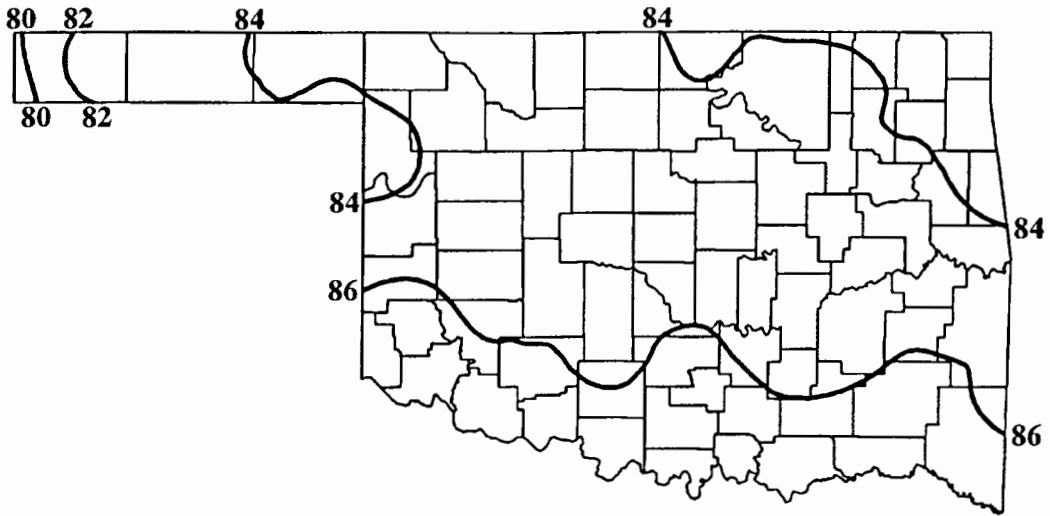
**JULY 1997 DEPARTURE FROM NORMAL PRECIPITATION
(INCHES)**



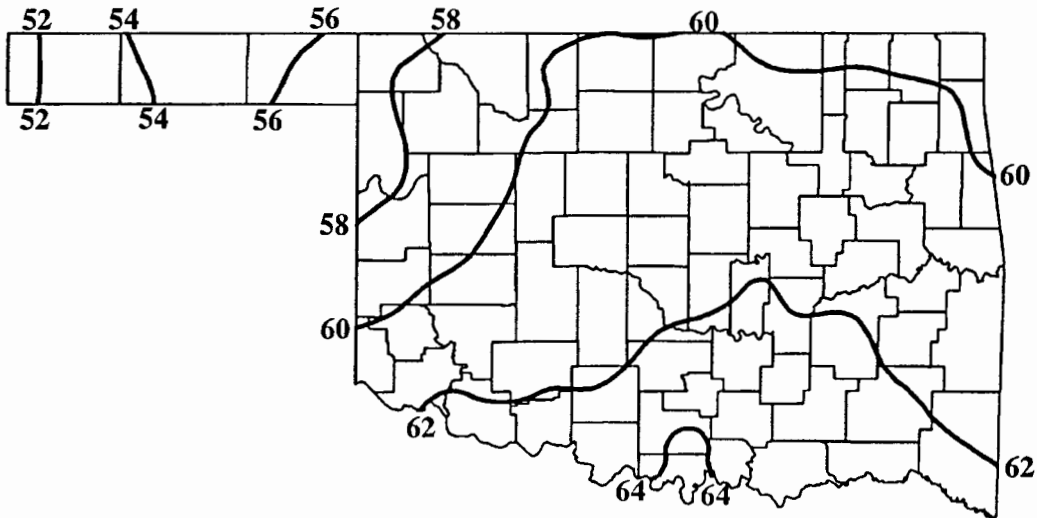
JULY 1997 ACCUMULATED COOLING DEGREE DAYS (°F)



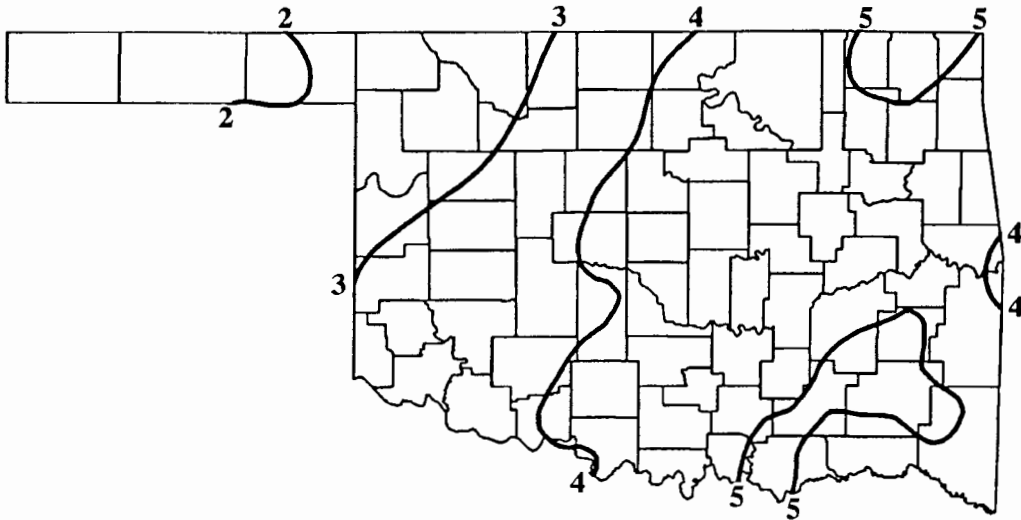
JULY 1997 DEPARTURE FROM NORMAL COOLING DEGREE DAYS (°F)



SEPTEMBER NORMAL DAILY MAXIMUM TEMPERATURE (°F)



SEPTEMBER NORMAL DAILY MINIMUM TEMPERATURE (°F)



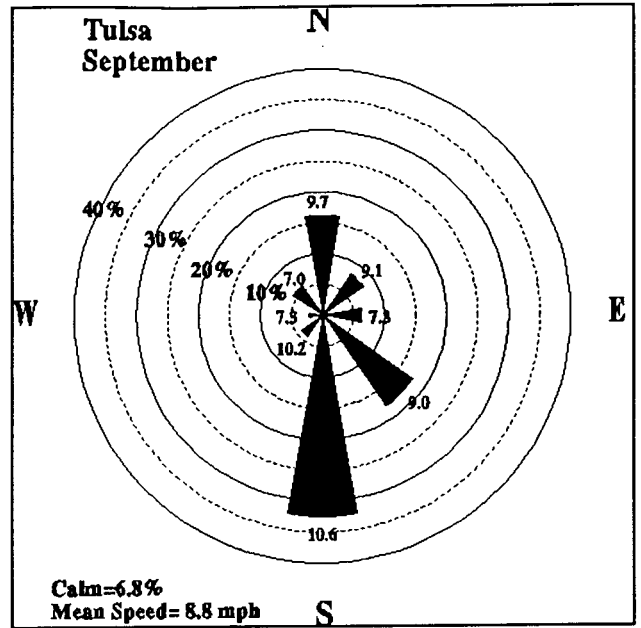
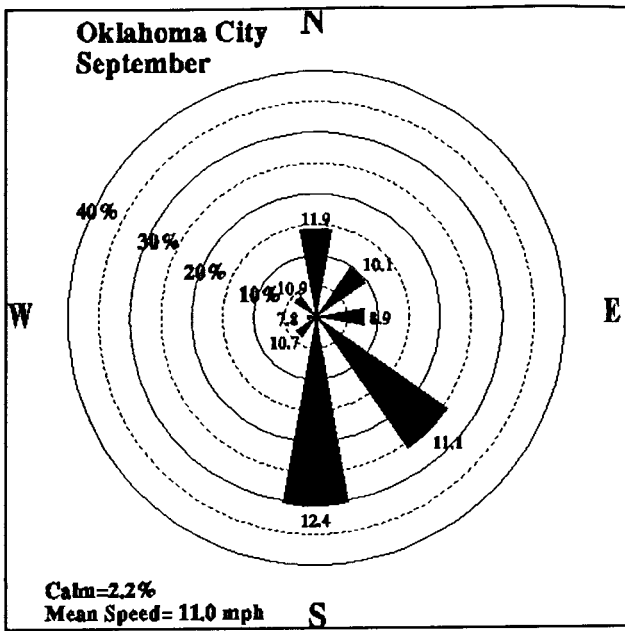
SEPTEMBER NORMAL MONTHLY PRECIPITATION (inches)

OUTLOOK FOR SEPTEMBER THROUGH NOVEMBER 1997

BASED ON SEASONAL OUTLOOKS PROVIDED BY THE CLIMATE PREDICTION CENTER

TEMPERATURE: Lower Than Normal Statewide

**PRECIPITATION: Greater Than Normal East
Near Normal Elsewhere**



September Wind Roses for Oklahoma City and Tulsa. The frequency (percent) of winds from each direction is represented by length of its bar. The numbers at the ends of the bars indicate the average wind speed from that direction in miles per hour.

SEPTEMBER 1997 SUNRISE AND SUNSET

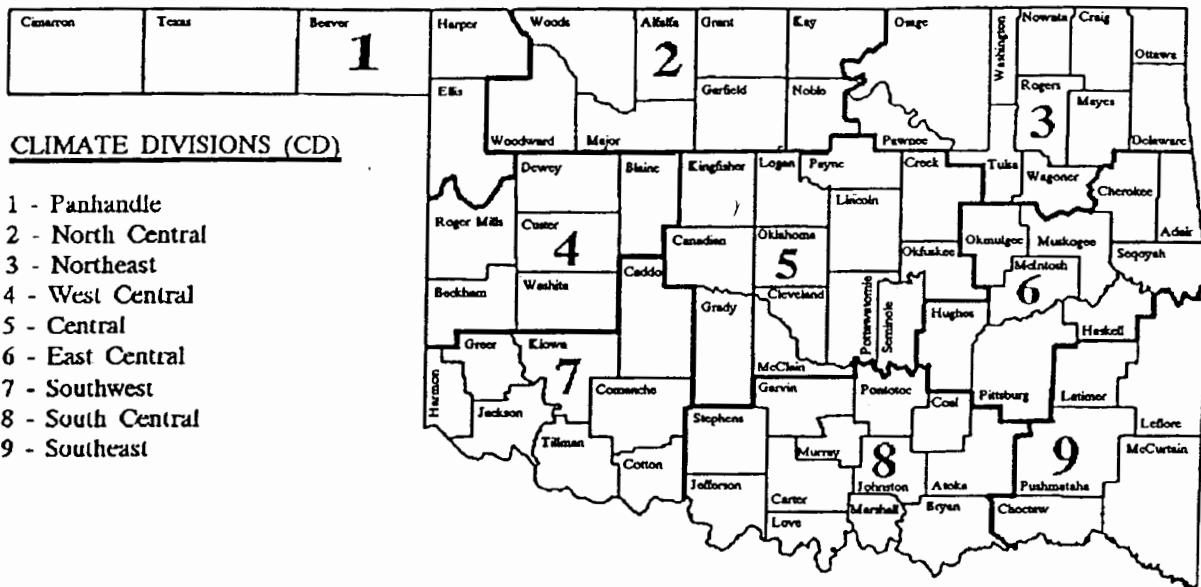
OKLAHOMA CITY

DATE	SUNRISE	SUNSET	DAYLIGHT
97 9 1	7: 2AM	7:59PM CDT	12 hrs 58 mins
97 9 2	7: 2AM	7:58PM CDT	12 hrs 56 mins
97 9 3	7: 3AM	7:56PM CDT	12 hrs 53 mins
97 9 4	7: 4AM	7:55PM CDT	12 hrs 51 mins
97 9 5	7: 4AM	7:54PM CDT	12 hrs 49 mins
97 9 6	7: 5AM	7:52PM CDT	12 hrs 47 mins
97 9 7	7: 6AM	7:51PM CDT	12 hrs 45 mins
97 9 8	7: 7AM	7:49PM CDT	12 hrs 43 mins
97 9 9	7: 7AM	7:48PM CDT	12 hrs 41 mins
97 9 10	7: 8AM	7:46PM CDT	12 hrs 38 mins
97 9 11	7: 9AM	7:45PM CDT	12 hrs 36 mins
97 9 12	7: 9AM	7:44PM CDT	12 hrs 34 mins
97 9 13	7:10AM	7:42PM CDT	12 hrs 32 mins
97 9 14	7:11AM	7:41PM CDT	12 hrs 30 mins
97 9 15	7:12AM	7:39PM CDT	12 hrs 28 mins
97 9 16	7:12AM	7:38PM CDT	12 hrs 25 mins
97 9 17	7:13AM	7:36PM CDT	12 hrs 23 mins
97 9 18	7:14AM	7:35PM CDT	12 hrs 21 mins
97 9 19	7:15AM	7:33PM CDT	12 hrs 19 mins
97 9 20	7:15AM	7:32PM CDT	12 hrs 16 mins
97 9 21	7:16AM	7:30PM CDT	12 hrs 14 mins
97 9 22	7:17AM	7:29PM CDT	12 hrs 12 mins
97 9 23	7:18AM	7:27PM CDT	12 hrs 10 mins
97 9 24	7:18AM	7:26PM CDT	12 hrs 8 mins
97 9 25	7:19AM	7:24PM CDT	12 hrs 5 mins
97 9 26	7:20AM	7:23PM CDT	12 hrs 3 mins
97 9 27	7:21AM	7:21PM CDT	12 hrs 1 mins
97 9 28	7:21AM	7:20PM CDT	11 hrs 59 mins
97 9 29	7:22AM	7:19PM CDT	11 hrs 57 mins
97 9 30	7:23AM	7:17PM CDT	11 hrs 54 mins

TULSA

DATE	SUNRISE	SUNSET	DAYLIGHT
97 9 1	6:54AM	7:53PM CDT	12 hrs 59 mins
97 9 2	6:55AM	7:52PM CDT	12 hrs 57 mins
97 9 3	6:56AM	7:50PM CDT	12 hrs 55 mins
97 9 4	6:56AM	7:49PM CDT	12 hrs 53 mins
97 9 5	6:57AM	7:48PM CDT	12 hrs 50 mins
97 9 6	6:58AM	7:46PM CDT	12 hrs 48 mins
97 9 7	6:59AM	7:45PM CDT	12 hrs 46 mins
97 9 8	6:59AM	7:43PM CDT	12 hrs 44 mins
97 9 9	7: 0AM	7:42PM CDT	12 hrs 42 mins
97 9 10	7: 1AM	7:40PM CDT	12 hrs 39 mins
97 9 11	7: 2AM	7:39PM CDT	12 hrs 37 mins
97 9 12	7: 2AM	7:37PM CDT	12 hrs 35 mins
97 9 13	7: 3AM	7:36PM CDT	12 hrs 33 mins
97 9 14	7: 4AM	7:34PM CDT	12 hrs 30 mins
97 9 15	7: 5AM	7:33PM CDT	12 hrs 28 mins
97 9 16	7: 5AM	7:31PM CDT	12 hrs 26 mins
97 9 17	7: 6AM	7:30PM CDT	12 hrs 24 mins
97 9 18	7: 7AM	7:28PM CDT	12 hrs 21 mins
97 9 19	7: 8AM	7:27PM CDT	12 hrs 19 mins
97 9 20	7: 8AM	7:25PM CDT	12 hrs 17 mins
97 9 21	7: 9AM	7:24PM CDT	12 hrs 15 mins
97 9 22	7:10AM	7:22PM CDT	12 hrs 12 mins
97 9 23	7:11AM	7:21PM CDT	12 hrs 10 mins
97 9 24	7:11AM	7:19PM CDT	12 hrs 8 mins
97 9 25	7:12AM	7:18PM CDT	12 hrs 5 mins
97 9 26	7:13AM	7:16PM CDT	12 hrs 3 mins
97 9 27	7:14AM	7:15PM CDT	12 hrs 1 mins
97 9 28	7:15AM	7:13PM CDT	11 hrs 59 mins
97 9 29	7:15AM	7:12PM CDT	11 hrs 56 mins
97 9 30	7:16AM	7:10PM CDT	11 hrs 54 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
 SEPTEMBER

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
89.8 64.4 1.6 0 13 0	max min ppt RdD Cdd	88.5 64.4 1.2 0 13 0	max min ppt RdD Cdd	89.8 65.8 2.5 0 13 0	max min ppt RdD Cdd	88.7 66.4 0.7 0 13 0	max min ppt RdD Cdd	88.5 66.1 0.6 0 12 0	max min ppt RdD Cdd	89.2 66.0 0.3 0 13 0	max min ppt RdD Cdd	89.2 66.0 0.3 0 13 0	max min ppt RdD Cdd
105-1901 66-1902 55-1906 80-1951 255-1974	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	105-1901 66-1902 55-1906 80-1951 406-1991	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	106-1947 71-1974 47-1974 60-1909 5-16-1929	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	106-1947 66-1901 46-1974 79-1970 17-4-1940	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	103-1901 64-1902 47-1974 77-1909 1-05-1922	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	102-1900 64-1900 45-1906 78-1930 3-03-1901	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	102-1905 53-1906 45-1902 78-1978 1-06-1905	102-1905 53-1906 45-1902 77-1906 1-37-1905
88.1 65.0 0.03 0 12 0	max min ppt RdD Cdd	87.5 64.6 0.06 0 11 0	max min ppt RdD Cdd	85.3 63.6 0.09 0 10 0	max min ppt RdD Cdd	87.0 63.4 0.04 0 10 0	max min ppt RdD Cdd	86.2 63.3 0.22 0 10 0	max min ppt RdD Cdd	83.9 61.8 0.18 0 9 0	max min ppt RdD Cdd	83.3 62.1 0.20 0 9 0	max min ppt RdD Cdd
101-1922 73-1903 48-1907 80-1906 327-1993	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	99-1970 67-1929 61-1902 77-1936 1-06-1991	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	101-1926 64-1929 47-1902 77-1928 2-30-1925	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	100-1909 60-1908 48-1940 77-1929 2-30-1906	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	102-1900 64-1900 45-1906 78-1930 3-03-1901	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	102-1905 53-1906 45-1902 78-1978 1-06-1905	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	102-1905 53-1906 47-1903 77-1906 3-01-1907	102-1905 53-1906 47-1903 77-1906 3-01-1907
83.2 62.5 1.12 1 9 0	max min ppt RdD Cdd	83.6 62.2 1.12 1 8 0	max min ppt RdD Cdd	82.3 62.2 1.14 1 8 0	max min ppt RdD Cdd	84.5 62.0 1.05 1 9 0	max min ppt RdD Cdd	83.9 62.5 0.07 0 9 0	max min ppt RdD Cdd	83.8 61.1 0.17 1 8 0	max min ppt RdD Cdd	81.6 60.7 0.14 1 7 0	max min ppt RdD Cdd
100-1905 67-1903 44-1906 79-1906 2-30-1925	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	101-1978 69-1903 44-1906 78-1906 1-07-1991	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	89-1972 68-1978 44-1906 78-1978 1-02-1906	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	99-1962 63-1971 42-1901 78-1978 3-15-1923	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	99-1964 66-1971 44-1971 78-1978 1-01-1942	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	100-1904 62-1906 41-1971 76-1954 3-02-1900	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	97-1900 61-1904 99-1909 76-1901 2-04-1900	97-1900 61-1904 99-1909 76-1901 2-04-1900
82.3 59.8 -27 1 7 0	max min ppt RdD Cdd	81.1 59.0 0.04 1 6 0	max min ppt RdD Cdd	80.4 59.3 1.17 1 2 0	max min ppt RdD Cdd	80.9 58.7 1.05 1 8 0	max min ppt RdD Cdd	80.3 58.2 1.16 1 5 0	max min ppt RdD Cdd	80.5 58.5 1.11 2 6 0	max min ppt RdD Cdd	80.0 58.0 0.05 2 6 0	max min ppt RdD Cdd
96-1903 47-1946 58-1916 71-1903 2-00-1905	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	97-1931 66-1925 40-1905 76-1901 1-07-1909	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	98-1909 66-1974 36-1909 74-1909 5-07-1959	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	97-1909 63-1926 41-1906 74-1933 1-41-1903	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	98-1977 46-1926 36-1912 72-1923 1-7-1973	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	96-1903 47-1927 39-1942 72-1923 1-75-1909	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	104-1908 53-1904 57-1906 73-1977 2-00-1945	104-1908 53-1904 57-1906 73-1977 2-00-1945
79.8 54.9 1.0 2 2 0	max min ppt RdD Cdd	79.2 55.1 0.09 2 8 0	max min ppt RdD Cdd	79.2 55.1 0.09 2 8 0	max min ppt RdD Cdd	79.2 55.1 0.09 2 8 0	max min ppt RdD Cdd	79.2 55.1 0.09 2 8 0	max min ppt RdD Cdd	79.2 55.1 0.09 2 8 0	max min ppt RdD Cdd	79.2 55.1 0.09 2 8 0	max min ppt RdD Cdd
100-1977 64-1905 36-1906 72-1977 1-76-1906	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	100-1977 64-1905 36-1906 72-1977 1-76-1906	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	100-1977 64-1905 36-1906 72-1977 1-76-1906	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	100-1977 64-1905 36-1906 72-1977 1-76-1906	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	100-1977 64-1905 36-1906 72-1977 1-76-1906	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	100-1977 64-1905 36-1906 72-1977 1-76-1906	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	100-1977 64-1905 36-1906 72-1977 1-76-1906	100-1977 64-1905 36-1906 72-1977 1-76-1906

SEPTEMBER AVERAGES

TEMPERATURE : 73.2°F
 PRECIPITATION : 3.47"
 HEATING DEGREE DAYS : 22
 COOLING DEGREE DAYS : 270

TULSA CLIMATE CALENDAR

SEPTEMBER

The data on this calendar are for Tulsa. Normal values are calculated for the period 1948-1991. Temperature extremes are for the period 1905-1996; precipitation extremes are for the period 1948-1996.

	Normal	1 Actual	Normal	2 Actual	Normal	3 Actual	Normal	4 Actual	Normal	5 Actual	Normal	6 Actual	Normal	7 Actual			
Normal	90.0 MAX 67.0 MIN .16 PPT 0 RFD 14 CDD	Actual	Normal	89.0 MAX 67.0 MIN .18 PPT 0 RFD 13 CDD	Actual	Normal	89.0 MAX 67.0 MIN .19 PPT 0 RFD 14 CDD	Actual	Normal	89.0 MAX 67.0 MIN .22 PPT 0 RFD 14 CDD	Actual	Normal	89.0 MAX 67.0 MIN .16 PPT 0 RFD 13 CDD	Actual	Normal	87.0 MAX 67.0 MIN .08 PPT 0 RFD 12 CDD	Actual
Highest Max	105-1985		Highest Max	100-1599		Highest Max	100-1599		Highest Max	107-1947		Highest Max	107-1919		Highest Max	100-1904	
Lowest Max	70-1974		Lowest Max	66-1974		Lowest Max	70-1974		Lowest Max	66-1967		Lowest Max	66-1962		Lowest Max	65-1968	
Highest Min	48-1967		Highest Min	61-1974		Lowest Min	47-1934		Lowest Min	46-1974		Lowest Min	46-1974		Lowest Min	50-1918	
Lowest Min	78-1982		Highest Min	78-1986		Highest Min	78-1989		Highest Min	78-1989		Highest Min	78-1986		Highest Min	78-1986	
Greatest ppt	224-1974		Greatest ppt	206-1974		Greatest ppt	327-1962		Greatest ppt	280-1971		Greatest ppt	116-1977		Greatest ppt	130-1962	
Normal	88.0 MAX 66.0 MIN .07 PPT 0 RFD 12 CDD	Actual	Normal	88.0 MAX 65.0 MIN .13 PPT 0 RFD 12 CDD	Actual	Normal	87.0 MAX 64.0 MIN .08 PPT 0 RFD 10 CDD	Actual	Normal	87.0 MAX 64.0 MIN .14 PPT 0 RFD 10 CDD	Actual	Normal	86.0 MAX 63.0 MIN .16 PPT 0 RFD 10 CDD	Actual	Normal	84.0 MAX 62.0 MIN .16 PPT 0 RFD 9 CDD	Actual
Highest Max	103-1925		Highest Max	100-1909		Highest Max	106-1926		Highest Max	100-1909		Highest Max	102-1920		Highest Max	100-1905	
Lowest Max	70-1993		Lowest Max	66-1974		Lowest Max	75-1989		Lowest Max	74-1967		Lowest Max	68-1969		Lowest Max	55-1999	
Highest Min	50-1956		Highest Min	61-1974		Lowest Min	48-1968		Lowest Min	46-1940		Lowest Min	48-1969		Lowest Min	48-1961	
Lowest Min	78-1983		Highest Min	78-1991		Highest Min	75-1991		Highest Min	77-1989		Highest Min	77-1991		Highest Min	77-1978	
Greatest ppt	146-1984		Greatest ppt	267-1981		Greatest ppt	74-1966		Greatest ppt	188-1977		Greatest ppt	246-1983		Greatest ppt	216-1967	
Normal	83.0 MAX 62.0 MIN .26 PPT 1 RFD 8 CDD	Actual	Normal	84.0 MAX 63.0 MIN .26 PPT 0 RFD 9 CDD	Actual	Normal	83.0 MAX 63.0 MIN .09 PPT 1 RFD 9 CDD	Actual	Normal	85.0 MAX 62.0 MIN .11 PPT 1 RFD 9 CDD	Actual	Normal	85.0 MAX 64.0 MIN .20 PPT 0 RFD 10 CDD	Actual	Normal	85.0 MAX 62.0 MIN .07 PPT 0 RFD 9 CDD	Actual
Highest Max	103-1966		Highest Max	103-1956		Highest Max	104-1931		Highest Max	100-1982		Highest Max	100-1964		Highest Max	102-1964	
Lowest Max	60-1940		Lowest Max	60-1990		Lowest Max	61-1971		Lowest Max	66-1971		Lowest Max	65-1991		Lowest Max	65-1991	
Highest Min	46-1998		Highest Min	44-1990		Lowest Min	44-1991		Lowest Min	42-1981		Lowest Min	45-1991		Lowest Min	45-1991	
Lowest Min	78-1966		Highest Min	77-1950		Highest Min	74-1978		Highest Min	80-1978		Highest Min	78-1954		Highest Min	78-1954	
Greatest ppt	287-1982		Greatest ppt	678-1971		Greatest ppt	122-1971		Greatest ppt	239-1971		Greatest ppt	430-1974		Greatest ppt	105-1990	
Normal	82.0 MAX 60.0 MIN .16 PPT 1 RFD 7 CDD	Actual	Normal	82.0 MAX 59.0 MIN .13 PPT 1 RFD 6 CDD	Actual	Normal	81.0 MAX 59.0 MIN .14 PPT 1 RFD 6 CDD	Actual	Normal	81.0 MAX 60.0 MIN .11 PPT 1 RFD 6 CDD	Actual	Normal	82.0 MAX 59.0 MIN .14 PPT 7 RFD 7 CDD	Actual	Normal	80.0 MAX 59.0 MIN .10 PPT 1 RFD 6 CDD	Actual
Highest Max	98-1921		Highest Max	101-1931		Highest Max	99-1931		Highest Max	99-1939		Highest Max	96-1938		Highest Max	95-1964	
Lowest Max	41-1966		Lowest Max	43-1974		Lowest Max	68-1974		Lowest Max	66-1962		Lowest Max	67-1964		Lowest Max	64-1984	
Highest Min	64-1918		Highest Min	64-1988		Lowest Min	57-1968		Lowest Min	49-1986		Lowest Min	57-1912		Lowest Min	35-1942	
Lowest Min	78-1983		Highest Min	73-1980		Highest Min	76-1969		Highest Min	76-1986		Highest Min	78-1981		Highest Min	78-1977	
Greatest ppt	978-1970		Greatest ppt	130-1998		Greatest ppt	194-1969		Greatest ppt	237-1966		Greatest ppt	237-1998		Greatest ppt	109-1991	
Normal	80.0 MAX 57.0 MIN .16 PPT 2 RFD 6 CDD	Actual	Normal	79.0 MAX 65.0 MIN .09 PPT 2 RFD 5 CDD	Actual	Normal	79.0 MAX 65.0 MIN .09 PPT 2 RFD 5 CDD	Actual	Normal	80.0 MAX 58.0 MIN .03 PPT 2 RFD 6 CDD	Actual	Normal	80.0 MAX 58.0 MIN .03 PPT 2 RFD 6 CDD	Actual	Normal	80.0 MAX 58.0 MIN .03 PPT 2 RFD 6 CDD	Actual
Highest Max	98-1983		Highest Max	99-1979		Highest Max	99-1979		Highest Max	95-1964		Highest Max	102-1963		Highest Max	102-1963	
Lowest Max	57-1984		Lowest Max	69-1959		Lowest Max	69-1959		Lowest Max	66-1962		Lowest Max	67-1964		Lowest Max	65-1984	
Highest Min	73-1986		Highest Min	72-1977		Highest Min	72-1977		Highest Min	76-1986		Highest Min	78-1981		Highest Min	58-1908	
Lowest Min	44-1988		Greatest ppt	130-1998		Greatest ppt	130-1998		Greatest ppt	130-1998		Greatest ppt	130-1998		Greatest ppt	58-1908	
Greatest ppt	446-1988		Greatest ppt	130-1998		Greatest ppt	130-1998		Greatest ppt	130-1998		Greatest ppt	130-1998		Greatest ppt	58-1908	

SEPTEMBER AVERAGES

TEMPERATURE : 73.6°F
 PRECIPITATION : 4.10"
 HEATING DEGREE DAYS : 17
 COOLING DEGREE DAYS : 283

JULY 1997 SUMMARY FOR PANHANDLE DIVISION (CD1)

NAME	ID	CD	DEV				MIN	HEAT		DEV		COOL		DEV		TOT	NUM	DEV		DAY
			MEAN	NUM	FROM	MAX		DEG	DAY	FROM	NORM	DEG	DAY	FROM	NORM			FROM	NORM	
ARNETT	332	1	79	31	-1.4	102	2	54	5	0	0	432.5	-44.5	2.2	31	0.31	1.42	6		
BEAVER	593	1	81.1	31	0.4	105	3	51	6	0	0	500	13	1.08	31	-1.78	0.93	21		
BOISE CITY	908	1	78.3	31	0.4	103	15	50	4	0	0	411	11	1.383	31	-1.37	0.73	20		
BUFFALO	1243	1	84.2	31	1	111	1	54	5	0	0	594	30	0.82	31	-2.17	0.5	21		
FARGO	3070	1	*****	0*	****	****	0	****	0	*****	*****	*****	*****	2.43	31	0.39	0.69	23		
GAGE	3407	1	80.4	29*	****	101	13	50	5	0	*****	445.5	*****	1.472	29	****	0.54	5		
GATE	3489	1	81.3	31	-0.5	107	2	55	5	0	0	504	-17	1.031	31	-1.4	0.52	30		
GOODWELL	3628	1	80.9	31	2.4	107	2	52	30	0	0	493	74	2.16	31	-0.36	1.08	29		
GUYMON	3835	1	79.9	31*	****	105	16	55	9	0	*****	462.5	*****	4.94	31	****	2.47	31		
HOOKER	4298	1	78.9	15*	****	106	2	56	7	0	*****	208	*****	1.47	16	****	0.93	6		
KENTON	4766	1	78.1	26*	****	102	17	53	4	0	*****	340	*****	1.884	28	****	0.86	29		
LAVERNE	5045	1	*****	0*	****	****	0	****	0	*****	*****	*****	*****	2.441	31	-0.09	0.93	16		
RANGE	7412	1	*****	0*	****	****	0	****	0	*****	*****	*****	*****	4.151	31	****	1.25	15		
REGNIER	7534	1	*****	0*	****	****	0	****	0	*****	*****	*****	*****	2.072	31	-0.27	1	21		
TURPIN	9017	1	79.9	28*	****	107	2	54	4	0	*****	418.5	*****	2.41	28	****	1.2	29		

JULY 1997 SUMMARY FOR NORTH CENTRAL DIVISION (CD2)

NAME	ID	CD	DEV				MIN	HEAT		DEV		COOL		DEV		TOT	NUM	DEV		DAY
			MEAN	NUM	FROM	MAX		DEG	DAY	FROM	NORM	DEG	DAY	FROM	NORM			FROM	NORM	
ALVA	193	2	83.7	31*	****	107	1	56	5	0	*****	579	*****	0.661	31	****	0.35	20		
VANCE AFB	302	2	*****	0*	****	****	0	****	0	*****	*****	*****	*****	2.861	29	****	1.76	18		
BILLINGS	755	2	81	31	-2.3	97	25	58	5	0	0	497.5	-69.5	6.073	31	2.94	3.4	19		
BLACKWELL 2E	818	2	81	29*	****	99	27	57	5	0	*****	463.5	*****	8.37	31	5.23	2.73	17		
BRAMAN	1075	2	*****	0*	****	****	0	****	0	*****	*****	*****	*****	5.5	31	****	2.02	17		
CEDARDALE	1620	2	*****	0*	****	****	0	****	0	*****	*****	*****	*****	1.853	31	****	1.25	19		
CHEROKEE	1724	2	84	31	-0.1	105	4	59	5	0	0	589.5	-2.5	3.61	31	0.87	3.2	19		
ENID	2912	2	83.1	31	-0.2	100	1	60	5	0	0	560	-7	5.1	31	2.34	2.64	19		
FT SUPPLY	3304	2	80.5	31	-0.2	103	2	56	5	0	0	481.5	-5.5	1.872	31	-0.32	0.57	28		
FREEDOM	3358	2	81	31	-2	109	2	49	5	0	0	496	-62	1.82	31	-0.54	0.86	11		
GREAT SALT P	3740	2	82.3	31	-0.7	102	14	59	5	0	0	537.5	-20.5	1.72	30	****	0.43	11		
HARDY	3909	2	*****	0*	****	****	0	****	0	*****	*****	*****	*****	2.37	31	****	0.81	12		
HELENA	4019	2	82.3	31	0.4	102	2	58	5	0	0	536.5	12.5	6.974	31	4.35	6.55	19		
JEFFERSON	4573	2	82	31	-1.5	100	16	55	5	0	0	528	-46	3.42	31	0.09	1.81	18		
LAMONT	5013	2	*****	0*	****	****	0	****	0	*****	*****	*****	*****	2.88	31	****	1.66	19		
MEDFORD	5768	2	*****	0*	****	****	0	****	0	*****	*****	*****	*****	3.602	31	****	2.15	18		
MUTUAL	6139	2	81.5	31	-0.3	106	2	55	5	0	0	511	-10	0.62	31	-1.73	0.24	19		
NEWKIRK	6278	2	79.9	31	-2.6	97	25	56	5	0	0	461.5	-81.5	5.03	31	1.75	1.83	18		
ORIENTA	6751	2	*****	0*	****	****	0	****	0	*****	*****	*****	*****	0.441	31	-2.16	0.42	16		
PERRY	7012	2	83.5	27*	****	100	26	65	31	0	*****	499	*****	5.86	27	****	2.2	19		
PONCA CITY	7201	2	84	29*	****	102	24	62	5	0	*****	550	*****	8.621	30	****	6.33	17		
RED ROCK	7505	2	*****	0*	****	****	0	****	0	*****	*****	*****	*****	9.2	31	6.31	2.08	17		
WAYNOKA	9404	2	83.5	27*	****	106	1	53	4	0	*****	500	*****	0.05	28	****	0.05	11		
WOODWARD	9760	2	*****	0*	****	****	0	****	0	*****	*****	*****	*****	0.233	31	-2.36	0.11	28		

JULY 1997 SUMMARY FOR NORTHEAST DIVISION (CD3)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV		MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV		DAY	
					FROM NORM	MAX TEMP									FROM NORM	MAX 24-HR		
BARNSDALL	535	3	80.3	29 *	****	97	28	57	5	0	*****	444	*****	3.592	31	0.66	2.19	17
BARTLESVILLE	548	3	81.6	31	-0.5	98	27	56	5	0	0	515.5	-14.5	3.32	31	0.72	1.21	18
BIXBY	782	3	80.8	31	-0.2	98	29	58	6	0	0	490	-6	4.14	31	1.27	1.62	11
BURBANK	1256	3	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	8.022	31	4.78	6	17
CHELSEA	1717	3	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	1.68	31	*****	0.53	4
CLAREMORE	1828	3	80.3	31	-0.9	98	29	58	5	0	0	473	-29	2.73	31	-0.24	1.5	4
CLEVELAND 2	1902	3	80.4	17 *	****	96	16	62	4	0	*****	262.5	*****	5.96	19	*****	4.6	18
FORAKER	3250	3	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	4.761	31	1.69	3.2	18
HOLLOW	4258	3	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	1.801	31	-1.36	0.7	4
HOMINY	4289	3	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	4.262	31	1.19	1.68	18
KANSAS	4672	3	79.9	31	0	98	28	55	5	0	0	461.5	-0.5	2.29	31	-0.32	0.87	4
LENAPAH	5118	3	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	2.24	31	*****	1	4
MANNFORD	5522	3	80.2	30	-1.8	96	28	57	5	0	0	455.5	-71.5	4.89	30	*****	1.78	18
MARAMEC	5540	3	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	8.02	31	5.23	5.6	18
MIAMI	5855	3	79.5	23 *	****	96	24	61	4	0	*****	334	*****	4.33	26	*****	3.06	9
NOWATA	6485	3	81.2	31	-0.7	99	28	56	5	0	0	501.5	-22.5	0.961	31	-1.87	0.8	4
PAWHUSKA	6935	3	80.9	31	-0.7	96	23	57	5	0	0	493	-22	6.351	31	3.17	3.84	18
PAWNEE	6940	3	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	8.04	31	5.31	4.75	18
PRYOR	7309	3	81.2	31	0.5	98	29	56	5	0	0	503	16	2.552	31	-0.2	1.23	11
RALSTON	7390	3	80.7	31	-1.2	96	28	58	5	0	0	485.5	-38.5	13.83	31	10.89	7.15	18
SKIATOOK	8258	3	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	3.37	31	0.23	1.29	4
SPAVINAW	8380	3	82.7	31	0.7	99	29	58	5	0	0	548	21	1.6	31	-1.42	0.68	4
TULSA	8992	3	81.7	31	-1.6	98	28	59	5	0	0	517	-50	5.632	31	2.54	1.42	10
UPPER SPAV	9101	3	83.4	31 *	****	104	24	54	5	0	*****	571.5	*****	1.32	31	*****	0.36	4
VINITA	9203	3	79.3	23 *	****	95	23	54	5	0	*****	330	*****	3.67	23	*****	2.01	4
WAGONER	9247	3	81.5	31	-0.4	97	24	58	5	0	0	510	-14	4.241	31	1.41	2.23	11
WANN	9298	3	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	2.35	31	*****	1.3	4
WYNONA	9792	3	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	4.292	31	*****	2.91	18

JULY 1997 SUMMARY FOR WEST CENTRAL DIVISION (CD4)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV		MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV		DAY	
					FROM NORM	MAX TEMP									FROM NORM	MAX 24-HR		
CLINTON	1909	4	82.3	31	-1.5	100	1	59	5	0	0	536	-47	1.74	31	-0.35	0.65	4
COLONY	2039	4	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	2.34	31	*****	0.75	23
CORDELL	2125	4	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	2.121	31	0.19	1.08	4
ELK CITY	2849	4	80.4	31	-1.5	99	1	58	5	0	0	478	-46	2.281	31	0.39	0.93	4
ERICK	2944	4	81.4	31	-0.3	101	2	57	4	0	0	507	-11	1.24	31	-0.45	0.54	4
GEARY	3497	4	82.2	30	0	100	2	63	4	0	0	517	-16	2.93	30	*****	1.58	23
HAMMON	3871	4	80.4	31	-1.6	99	2	57	5	0	0	478	-49	1.41	31	-0.58	0.76	4
LEEDEY	5090	4	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	1.96	31	0.18	0.56	6
MACKIE	5463	4	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	1.12	31	*****	0.28	18
MORAVIA	6035	4	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	1.42	31	-0.34	1.02	4
KEENE	6629	4	83.2	31	-0.3	101	28	56	5	0	0	563.5	-10.5	2.161	31	-0.2	0.96	15
RETROP	7565	4	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	2.02	31	*****	0.86	12
REYDON	7579	4	80.6	19 *	****	99	3	57	6	0	*****	295.5	*****	0.94	20	*****	0.57	6
SAYRE	7952	4	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	2.85	31	1.18	1.04	18
SWEETWATER	8652	4	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	1.121	31	*****	0.64	4
TALOGA	8708	4	81.8	31	-0.2	103	1	53	5	0	0	521	-6	0.542	31	-1.69	0.17	21
THOMAS	8815	4	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	2.52	31	*****	0.86	4
VICI	9172	4	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	0.611	31	-1.55	0.3	5
WATONGA	9364	4	81.6	31	-0.8	100	14	57	5	0	0	515.5	-23.5	3.65	31	1.38	2.2	19
WEATHERFORD	9422	4	81.7	29 *	****	100	27	59	4	0	*****	484.5	*****	1.43	30	*****	0.71	10

JULY 1997 SUMMARY FOR CENTRAL DIVISION (CD5)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
AMBER	200	5	*****	0*	****	****	0	****	0	*****	*****	*****	*****	1.6	31	*****	1.33	4
ARCADIA	288	5	*****	0*	****	****	0	****	0	*****	*****	*****	*****	3.24	31	*****	2.1	18
BLANCHARD	830	5	82.2	31	-0.4	100	29	58	5	0	0	533.5	-12.5	0.851	31	-1.72	0.53	4
BRISTOW	1144	5	81.2	30	-0.8	98	29	55	5	0	0	485.5	-41.5	4.261	31	1.52	1.5	4
CHANDLER	1684	5	81.9	31	-0.6	99	14	58	5	0	0	525	-18	3.571	31	0.86	2.5	17
CHICKASHA EX	P 1750	5	83.7	31	0.8	102	27	59	5	0	0	580	25	0.72	31	-1.37	0.32	4
COX CITY	2196	5	*****	0*	****	****	0	****	0	*****	*****	*****	*****	0.41	31	*****	0.39	16
CRESCENT	2242	5	*****	0*	****	****	0	****	0	*****	*****	*****	*****	3.09	31	*****	1.3	18
CUSHING	2318	5	81.4	29*	****	98	25	60	5	0	*****	475	*****	4.78	29	*****	2.66	18
EDMOND	2788	5	*****	0*	****	****	0	****	0	*****	*****	*****	*****	3.63	31	*****	1.42	17
EL RENO	2818	5	78.7	25*	****	99	15	47	22	0	*****	343.5	*****	6.79	31	4.51	2.17	22
GUTHRIE	3821	5	81.6	31	-1.7	99	14	53	5	0	0	514	-53	2.212	31	-0.12	1.3	18
HENNESSEY	4055	5	81.9	20*	****	101	27	58	5	0	*****	338.5	*****	3.051	26	*****	1.25	19
INGALLS	4489	5	*****	0*	****	****	0	****	0	*****	*****	*****	*****	5.642	31	*****	3.19	18
KINGFISHER	4861	5	82.6	30	-0.8	100	14	57	5	0	0	528	-42	3.65	31	1.6	1.91	19
KONAWA	4915	5	*****	0*	****	****	0	****	0	*****	*****	*****	*****	1.72	31	-0.3	1.5	18
MARSHALL	5589	5	*****	0*	****	****	0	****	0	*****	*****	*****	*****	2.76	31	0.49	0.84	18
MEEKER	5779	5	81	29*	****	98	14	57	5	0	*****	463	*****	7.06	31	4.81	2.56	17
MULHALL	6110	5	*****	0*	****	****	0	****	0	*****	*****	*****	*****	4.66	31	*****	1.09	18
NORMAN NWS	6386	5	81.5	31	-0.7	98	28	57	5	0	0	510	-23	2.551	31	-0.21	1.3	4
OILTON	6616	5	*****	0*	****	****	0	****	0	*****	*****	*****	*****	6.8	24	*****	6	19
OKEMAH	6638	5	84.3	31	2.7	101	28	64	5	0	0	599	84	3.77	31	0.61	1.64	16
OKLAHOMA CTY	6661	5	81.5	31	-0.5	98	28	60	5	0	0	513	-14	3.412	31	0.8	1.2	4
PERKINS	7003	5	*****	0*	****	****	0	****	0	*****	*****	*****	*****	5.51	31	2.85	3.15	18
PIEDMONT	7068	5	*****	0*	****	****	0	****	0	*****	*****	*****	*****	2.56	31	*****	0.6	4
PRAGUE	7264	5	*****	0*	****	****	0	****	0	*****	*****	*****	*****	7.942	31	4.98	4.21	18
PURCELL	7327	5	81.8	31	-1	103	29	53	5	0	0	519.5	-32.5	0.6	31	-2.16	0.3	16
SEMINOLE	8042	5	81.5	31	-1.9	100	14	58	6	0	0	513	-57	3.582	31	1.06	2.25	17
SHAWNEE	8110	5	*****	0*	****	****	0	****	0	*****	*****	*****	*****	3.82	31	1.65	2.68	18
STELLA	8479	5	*****	0*	****	****	0	****	0	*****	*****	*****	*****	3.141	31	*****	1.56	17
STILLWATER	8501	5	81.5	31	-0.1	98	29	58	5	0	0	512	-3	4.7	31	1.8	2.82	18
STROUD	8563	5	*****	0*	****	****	0	****	0	*****	*****	*****	*****	9.32	31	*****	5.5	18
TECUMSEH	8751	5	*****	0*	****	****	0	****	0	*****	*****	*****	*****	2.88	31	*****	1.95	18
TROUSDALE	8960	5	*****	0*	****	****	0	****	0	*****	*****	*****	*****	0.97	31	*****	0.9	18
UNION CITY	9086	5	*****	0*	****	****	0	****	0	*****	*****	*****	*****	4.26	31	1.96	2.25	4
WELTY	9479	5	*****	0*	****	****	0	****	0	*****	*****	*****	*****	4.821	31	*****	3.1	4
WEWOKA	9575	5	*****	0*	****	****	0	****	0	*****	*****	*****	*****	3.02	31	0.65	1.72	18

JULY 1997 SUMMARY FOR EAST CENTRAL DIVISION (CD6)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
ASHLAND	364	6	*****	0*	****	****	0	****	0	*****	*****	*****	*****	1.9	31	*****	1.45	25
BEGGS	631	6	*****	0*	****	****	0	****	0	*****	*****	*****	*****	5.94	31	*****	3.11	4
CALVIN	1391	6	*****	0*	****	****	0	****	0	*****	*****	*****	*****	1.35	31	-1.72	1	4
CHECOTAH	1711	6	*****	0*	****	****	0	****	0	*****	*****	*****	*****	2.131	31	-0.91	1.35	4
CLAYTON	1858	6	*****	0*	****	****	0	****	0	*****	*****	*****	*****	1.6	31	*****	0.9	20
DEWAR	2485	6	*****	0*	****	****	0	****	0	*****	*****	*****	*****	3.053	31	-0.33	1.1	30
DUSTIN	2690	6	*****	0*	****	****	0	****	0	*****	*****	*****	*****	0.83	31	*****	0.31	15
EUFULA	2993	6	83.8	29*	****	101	28	59	5	0	*****	544	*****	2.721	29	*****	1.9	22
HANNA	3884	6	81.4	31	-0.4	99	24	53	5	0	0	509	-12	3.171	31	0.36	1.64	23
HASKELL	3956	6	*****	0*	****	****	0	****	0	*****	*****	*****	*****	3.39	31	0.78	1.35	11
HOLDENVILLE	4235	6	*****	0*	****	****	0	****	0	*****	*****	*****	*****	1.55	31	-1.23	0.83	19
LAKE EUFULA	4975	6	78.4	5*	****	97	29	64	1	0	*****	67	*****	2.8	31	*****	1.84	22
LYONS	5437	6	*****	0*	****	****	0	****	0	*****	*****	*****	*****	1.88	31	-1.03	0.83	4
MARBLE CITY	5546	6	*****	0*	****	****	0	****	0	*****	*****	*****	*****	1.05	31	*****	0.55	30
MCALESTER	5664	6	82.5	25*	****	102	28	58	5	0	*****	437	*****	0.143	28	*****	0.11	6
MCCURTAIN	5693	6	82.3	31	-0.1	106	28	56	7	0	0	536	-3	1.391	31	-1.78	0.67	30
MUSKOGEE	6130	6	82.6	31	0.4	99	30	58	5	0	0	547	14	4.96	31	2.32	3.55	10
OKMULGEE	6670	6	79.9	24*	****	98	25	56	5	0	*****	357.5	*****	8.262	27	*****	3.22	4
OKTAHA	6678	6	*****	0*	****	****	0	****	0	*****	*****	*****	*****	3.77	31	*****	1.93	4
QUINTON	7372	6	*****	0*	****	****	0	****	0	*****	*****	*****	*****	1.152	31	-2.31	0.5	29
SALLISAW	7862	6	81.2	31	-0.6	101	29	58	5	0	0	502.5	-18.5	1.51	31	-1.49	1.27	30
SCIPIO	7979	6	*****	0*	****	****	0	****	0	*****	*****	*****	*****	0.79	31	*****	0.28	18
SCRAPER	7993	6	*****	0*	****	****	0	****	0	*****	*****	*****	*****	3.5	31	*****	1.5	29
SHORT	8170	6	*****	0*	****	****	0	****	0	*****	*****	*****	*****	2.86	31	*****	1.37	30
STILWELL	8506	6	78.6	31	-1.3	95	28	51	5	0	0	422	-40	1.62	31	-1.43	0.72	30
TAHLEQUAH	8677	6	80.2	31	-0.3	96	27	53	5	0	0	472	-9	4.27	31	1.29	2.25	30
WEBBERS FALL	9445	6	82.8	31	1.1	105	29	56	5	0	0	551	33	1.402	31	-1.08	0.9	11
WESTVILLE	9523	6	*****	0*	****	****	0	****	0	*****	*****	*****	*****	3.24	31	*****	1.06	30
WESTUMKA	9571	6	*****	0*	****	****	0	****	0	*****	*****	*****	*****	0.781	31	-2.14	0.32	4

JULY 1997 SUMMARY FOR SOUTHWEST DIVISION (CD7)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV		MIN TEMP	DAY	HEAT DEG		DEV FROM NORM		COOL DEG		DEV FROM NORM		TOT PPT	NUM OBS	DEV FROM NORM		MAX 24-HR	DAY
					FROM NORM	MAX TEMP			DAY	DAY	DAY	DAY	FROM NORM	MAX TEMP	FROM NORM	MAX TEMP						
ALTUS	179	7	83.2	31	-1.3	102	28	62	4	0	0	565.5	-39.5	2.93	31	1.17	0.89	10				
ALTUS DAM	184	7	83.2	31	-1	103	2	60	4	0	0	563	-32	5.07	31	3.16	3.98	12				
ANADARKO	224	7	80.8	30	-2	97	25	56	5	0	0	473	-79	2.22	31	0.15	1.13	4				
APACHE	260	7	*****	0*	****	****	0	****	0	*****	*****	*****	*****	3.05	31	1.02	2.75	11				
ALTUS AFB	447	7	*****	0*	****	****	0	****	0	*****	*****	*****	*****	1.472	30	*****	0.73	11				
CARNEGIE	1504	7	81.6	30	-1.8	98	28	59	4	0	0	496.5	-73.5	4.35	30	****	2.76	3				
CHATTANOOGA	1706	7	85	31	0.7	104	29	61	5	0	0	619.5	21.5	0.13	31	-1.99	0.13	11				
DUNCAN 11 W	2668	7	*****	0*	****	****	0	****	0	*****	*****	*****	*****	0.722	24	*****	0.72	6				
FORT SILL	5068	7	83.7	31*	****	100	28	61	5	0	*****	579.5	*****	3.662	31	*****	3.35	10				
FREDERICK	3353	7	84.3	31	-0.1	101	28	61	4	0	0	598	-3	0.4	31	-1.68	0.3	23				
HEADRICK	3998	7	*****	0*	****	****	0	****	0	*****	*****	*****	*****	1.39	31	*****	0.51	7				
HOBART	4204	7	83.5	22*	****	104	1	59	5	0	*****	407	*****	0.505	27	*****	0.28	4				
HOLLIS	4249	7	82	31	-2.2	102	28	50	11	0	0	528.5	-66.5	1.512	31	-0.11	0.74	12				
LAWTON	5063	7	83.7	30	0.2	101	29	60	4	0	0	561.5	-12.5	4.17	30	*****	2.65	11				
LOOKEBA	5329	7	*****	0*	****	****	0	****	0	*****	*****	*****	*****	3.28	31	1.39	1.33	22				
MANGUM	5509	7	83.3	31	-0.9	102	1	60	4	0	0	568.5	-26.5	4.19	31	2.16	2.14	11				
RANDLETT	7403	7	*****	0*	****	****	0	****	0	*****	*****	*****	*****	0.322	31	*****	0.29	23				
ROOSEVELT	7727	7	*****	0*	****	****	0	****	0	*****	*****	*****	*****	1.34	31	-0.72	0.93	12				
SEDAN	8016	7	*****	0*	****	****	0	****	0	*****	*****	*****	*****	2.65	31	*****	0.83	23				
SNYDER	8299	7	*****	0*	****	****	0	****	0	*****	*****	*****	*****	1.56	31	-0.5	0.49	30				
VINSON	9212	7	*****	0*	****	****	0	****	0	*****	*****	*****	*****	1.94	31	0.31	1.55	4				
WALTERS	9278	7	84.3	31	0.2	103	28	60	5	0	0	598	6	1.3	31	-1.06	1.3	30				
WICHITA MT	9629	7	82.5	29*	****	100	29	56	7	0	*****	508.5	*****	2.862	30	*****	2.3	30				
WILLOW	9668	7	*****	0*	****	****	0	****	0	*****	*****	*****	*****	3.17	31	*****	1.22	4				

JULY 1997 SUMMARY FOR SOUTH CENTRAL DIVISION (CD8)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV		MIN TEMP	DAY	HEAT DEG		DEV FROM NORM		COOL DEG		DEV FROM NORM		TOT PPT	NUM OBS	DEV FROM NORM		MAX 24-HR	DAY
					FROM NORM	MAX TEMP			DAY	DAY	DAY	DAY	FROM NORM	MAX TEMP	FROM NORM	MAX TEMP						
ADA	17	8	81.7	31	-0.5	97	28	56	5	0	0	516.5	-16.5	2.051	31	-0.36	1.53	19				
ALLEN	147	8	*****	0*	****	****	0	****	0	*****	*****	*****	*****	3.65	31	*****	1.85	31				
ARDMORE	292	8	85.3	31	1.3	101	29	62	4	0	0	628	39	0	31	-2.13	0	31				
ATOKA DAM	394	8	84.9	22*	****	105	25	62	7	0	*****	437.5	*****	0.47	22	*****	0.29	25				
BOKCHITO	917	8	*****	0*	****	****	0	****	0	*****	*****	*****	*****	2.04	31	*****	2.04	30				
CANEY	1437	8	*****	0*	****	****	0	****	0	*****	*****	*****	*****	0.78	31	*****	0.58	16				
CENTRAHOMA	1648	8	*****	0*	****	****	0	****	0	*****	*****	*****	*****	0.7	31	*****	0.7	19				
CHICKASAW	1745	8	82.5	31	0.4	101	25	54	5	0	0	541.5	11.5	0.9	31	-1.77	0.6	25				
COLEMAN	2011	8	*****	0*	****	****	0	****	0	*****	*****	*****	*****	1.09	31	*****	0.72	16				
COMANCHE	2054	8	*****	0*	****	****	0	****	0	*****	*****	*****	*****	0.23	31	-1.72	0.08	22				
DAISY	2354	8	*****	0*	****	****	0	****	0	*****	*****	*****	*****	1.042	31	-2.39	0.83	15				
DUNCAN	2660	8	82.7	31	-0.4	99	29	62	5	0	0	549.5	-11.5	0.343	31	-1.91	0.34	16				
DURANT	2678	8	83.5	28*	****	100	23	60	31	0	*****	517	*****	0.28	28	*****	0.11	29				
ELMORE CITY	2872	8	*****	0*	****	****	0	****	0	*****	*****	*****	*****	0.28	31	*****	0.18	10				
GRADY	3688	8	*****	0*	****	****	0	****	0	*****	*****	*****	*****	1.02	31	*****	1.02	29				
HEALDTON	4001	8	83.1	31	0.2	101	28	58	5	0	0	562.5	7.5	0.32	31	-1.65	0.26	16				
HENNEPIN	4052	8	*****	0*	****	****	0	****	0	*****	*****	*****	*****	0.001	31	*****	0	18				
KETCHUM RAN	4780	8	*****	0*	****	****	0	****	0	*****	*****	*****	*****	0.19	31	*****	0.12	4				
KINGSTON	4865	8	*****	0*	****	****	0	****	0	*****	*****	*****	*****	3.011	31	0.9	1.62	30				
LEHIGH	5108	8	*****	0*	****	****	0	****	0	*****	*****	*****	*****	0.7	31	*****	0.3	19				
LINDSAY	5216	8	82.3	31	-0.4	101	24	56	4	0	0	537	-12	0.61	31	-1.45	0.52	15				
LOCO	5247	8	*****	0*	****	****	0	****	0	*****	*****	*****	*****	0.2	31	*****	0.2	22				
MARIETTA	5563	8	83.2	31	0	100	28	63	5	0	0	564.5	0.5	1.511	31	-0.6	1.2	23				
MARLOW	5581	8	82.7	31	0.4	104	28	53	5	0	0	547.5	11.5	0.19	31	-2.13	0.1	16				
MCGEE CREEK	5713	8	83.6	30*	****	104	29	61	5	0	*****	557	*****	0.131	31	*****	0.09	24				
PAULS VALLEY	6926	8	81.9	31	-1.4	102	28	55	5	0	0	523	-44	0.003	31	-2.26	0	23				
PONTOTOC	7214	8	*****	0*	****	****	0	****	0	*****	*****	*****	*****	2.03	31	-0.51	0.87	22				
TISHOMINGO	8884	8	83.7	31	0.4	104	23	57	5	0	0	580	13	1.11	31	-1.61	0.87	15				
TUSSY	9032	8	*****	0*	****	****	0	****	0	*****	*****	*****	*****	0	31	*****	0	31				
WAURIKA	9395	8	85.7	30	1.4	105	14	64	4	0	0	620	22	1.09	31	-0.72	0.65	29				
WAURIKA DAM	9399	8	83.7	30*	****	103	29	60	5	0	*****	560.5	*****	2.401	31	*****	1.53	22				

JULY 1997 SUMMARY FOR SOUTHEAST DIVISION (CD9)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
ANTLERS	256	9	82.6	31	1.3	102	28	61	5	0	0	547	42	*****	0	*****	*****	0
BATTIEST	567	9	77.5	31 *	****	97	29	56	6	0	*****	388.5	*****	1.95	31	*****	1.03	29
BEAR MT	584	9	82.9	30	1.5	103	28	56	21	0	0	536.5	28.5	1.3	30	*****	0.8	7
BENGAL	670	9	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	0.96	31	*****	0.49	30
BOSWELL	980	9	82.5	31	0.6	101	28	63	5	0	0	543.5	19.5	0.67	31	-1.85	0.31	24
BROKEN BOW	1162	9	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	0.8	30	*****	0.54	6
BROKEN BOW D	1168	9	81.6	31	1.1	103	28	60	3	0	0	515.5	34.5	1.57	31	-2.33	0.91	29
CARNASAW	1499	9	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	1.25	31	-2.76	0.57	15
CARTER TWR	1544	9	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	1.13	31	-2.86	0.42	23
FANSHAWE	3065	9	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	2.91	31	-0.7	1.93	24
HEAVENER	4008	9	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	0.01	31	-3.43	0.01	28
HUGO	4384	9	83.5	30	1.2	103	29	64	5	0	0	555.5	19.5	0.29	31	-2.5	0.17	10
IDABEL	4451	9	82.3	31	1.4	102	29	62	6	0	0	535.5	42.5	0.782	31	-2.56	0.67	7
PAGE	6842	9	78.3	29 *	****	98	29	54	5	0	*****	384.5	*****	2.44	29	*****	1.69	30
POTEAU	7254	9	81.6	31 *	****	102	28	58	5	0	*****	514	*****	2.52	31	*****	1.94	29
SMITHVILLE	8285	9	79.1	25 *	****	99	29	54	3	0	*****	353	*****	2.182	29	*****	0.6	30
SPIRO	8416	9	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	2.81	31	-0.43	1.67	30
TUSKAHOMA	9023	9	82.6	31	0.9	104	28	56	5	0	0	545	27	0.39	31	-3.32	0.13	16
VALLIANT	9118	9	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	0.77	31	-2.69	0.61	7
WILBURTON	9634	9	82.7	31	1.5	106	28	57	5	0	0	550	48	1.05	31	-2.71	0.41	15
WISTER	9724	9	80.5	31 *	****	102	29	57	6	0	*****	482	*****	2.77	31	*****	2.25	30

JULY 1997 CLIMATE DIVISION SUMMARY

CD	MEAN TEMP	NUM STA	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEG DAYS	DEV FROM NORM	COOL DEG DAYS	DEV FROM NORM	TOT PPT	NUM STA	DEV FROM NORM	MAX 24-HR	DAY
1	80.7	7	0.4	111	1	50	5	0	0	485.3	13.6	2.25	11	-0.24	2.47	31
2	81.9	11	-0.8	109	2	49	5	0	0	525.3	-23.5	3.66	19	0.85	6.55	19
3	81.2	13	-0.2	104	24	54	5	0	0	501.9	-8.7	4.22	24	1.27	7.15	18
4	81.7	8	-0.7	103	1	53	5	0	0	514.5	-23.4	1.83	17	-0.16	2.2	19
5	82.1	12	-0.3	103	29	47	22	0	0	527.7	-10.7	3.61	34	1.08	6	19
6	81.3	7	-0.3	106	28	51	5	0	0	505.6	-10.4	2.38	26	-0.56	3.55	10
7	83.2	11	-0.5	104	1	50	11	0	0	559.2	-21.6	2.23	18	0.23	3.98	12
8	83.2	13	0.3	105	14	53	5	0	0	560.6	5.3	0.95	29	-1.37	2.04	30
9	81.9	11	0.7	106	28	54	3	0	0	519.4	18.6	1.36	16	-2.18	2.25	30