

OKLAHOMA MONTHLY SUMMARY JUNE 1997

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MONTHLY SUMMARY FOR JUNE 1997

According to preliminary data from the National Weather Service, Oklahoma in 1997 experienced its 15th coolest June since 1892. The average temperature for the month, 74.8 degrees, was 2.2 degrees lower than normal. The statewide-averaged temperature through the first half of the year is 54.9 degrees, 1.0 degree below normal and the 24th lowest first-half temperature on record.

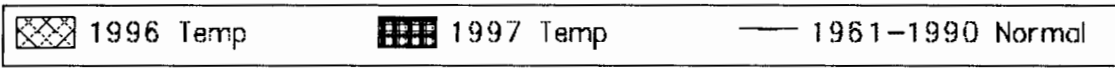
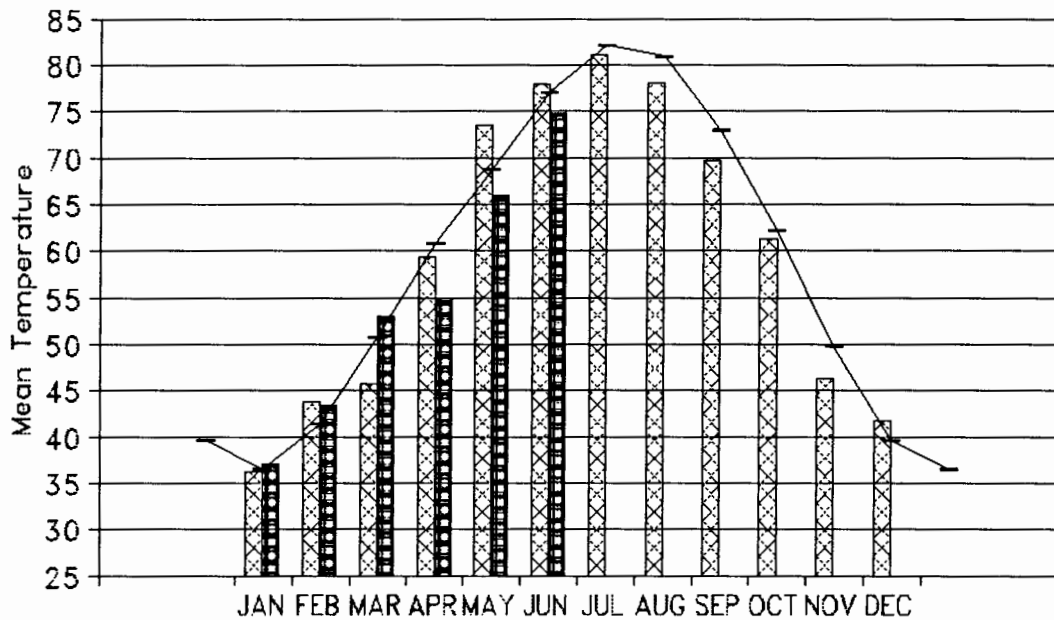
Precipitation for the month was above normal in most areas, exceptions mostly occurring in the northwest and southern portions of the state. The June total precipitation, averaged across the state, of 4.47 inches was 0.52 inch greater than normal, ranking as the 36th highest June precipitation in 106 years of records. The total precipitation for the first 6 months of the year, 19.48 inches, is 1.77 inches greater than normal and ranks as the 38th highest first half of the year.

Mild weather dominated the early days of the month. Daily high temperatures in the 70s and 80s and overnight lows in the 40s and 50s were the rule. There were scattered showers and thunderstorms, but fair skies dominated. A change in the upper-level circulation on the 8th introduced a 10-day period characterized by widespread, sometimes very heavy thunderstorms and generally warmer, more humid weather. Localized flooding was reported in Comanche and Carter counties and thunderstorm-related wind damage was widespread throughout south central Oklahoma on the 9th. Durant (Bryan) reported 4.40 inches of rain and Kingston (Marshall) and Grady (Jefferson) noted 3.17 and 3.00 inches, respectively. The major storm events of the occurred from the 15th through the 17th when a strong storm system interacted with the deep moisture across the state. Dewar (Okmulgee) reported 4.70 inches of rain while Wilburton (Latimer) noted 4.41 inches. Poteau (LeFlore) and Tahlequah (Cherokee) each collected 4.37 inches, Westville (Adair) received 4.15 inches and the Oklahoma Mesonet station near Blackwell (Kay) accumulated 4.03 inches over the 3-day period. Dewar, Blackwell Mesonet, Ponca City (Kay), Stuart Mesonet (Pittsburg), and Comanche (Stephens), Tahlequah Mesonet, and Westville each reported one-day accumulations in excess of 3 inches. Hail and wind damage were commonplace, mainly on the evening of the 16th and into the early morning hours of the 17th. Tornadoes were reported north of Eufaula (McIntosh), west of Enterprise (Haskell), in-and-around Henryetta (Okmulgee), south of Mason (Okfuskee), and near Turpin (Beaver). Localized flooding was reported in at least 10 counties including: Kay, Stephens, Hughes, Haskell, LeFlore, Latimer, Pittsburg, McIntosh, Muskogee, and Cherokee.

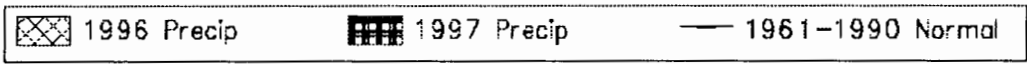
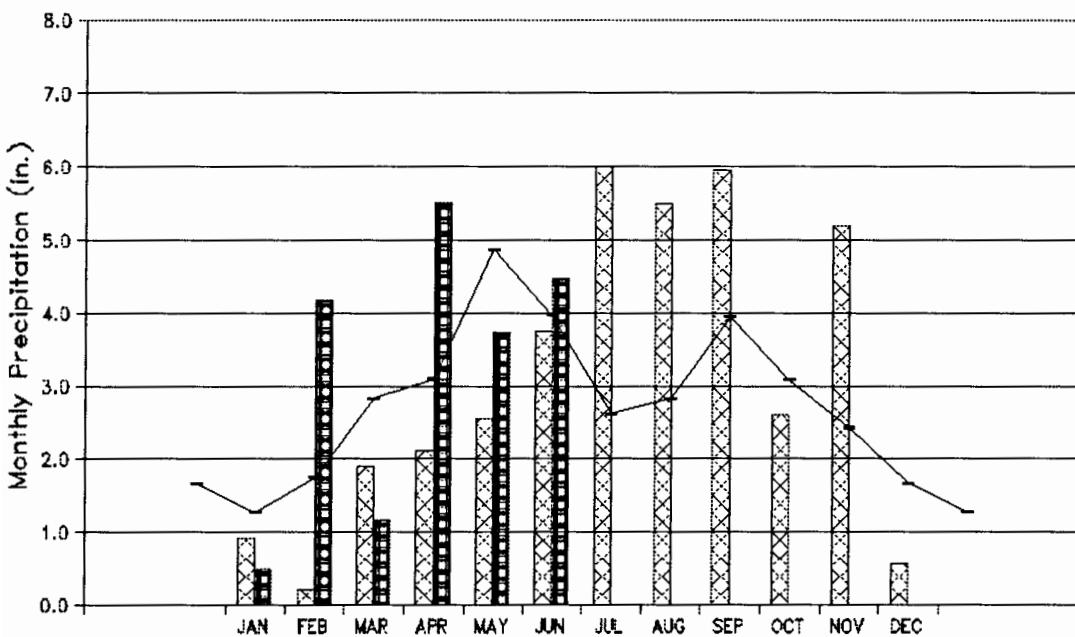
Hotter, drier weather dominated the state from the 18th through the 22nd. Afternoon temperatures topped 100 degrees at several locations in western Oklahoma on the 19th, 20th, and 21st, including a report of 104 degrees from Buffalo (Harper) on the 20th. Locally heavy rains returned to the state on the 23rd, concentrating on the eastern two-thirds of the state. Jefferson (Grant) reported 4.30 inches of rain on the 29th while Sallisaw (Sequoyah) received 4.29 inches from the 27th through the 30th. Three-inch or greater daily rainfall amounts were recorded at Great Salt Plains Dam (Alfalfa), Antlers Mesonet (Pushmataha), Medford (Grant), Hominy (Osage), and Blackwell Mesonet. As the precipitation inundated most of the state, daytime temperatures in the west resumed summertime magnitudes, including 106 degrees at Hooker Mesonet (Texas) and 105 degrees at Goodwell Mesonet (also Texas) on the 30th. Boise City, Kenton (both Cimarron), Buffalo, Hobart (Kiowa), and Hollis (Harmon) each also topped the century mark on the 29th or 30th.

Howard L. Johnson

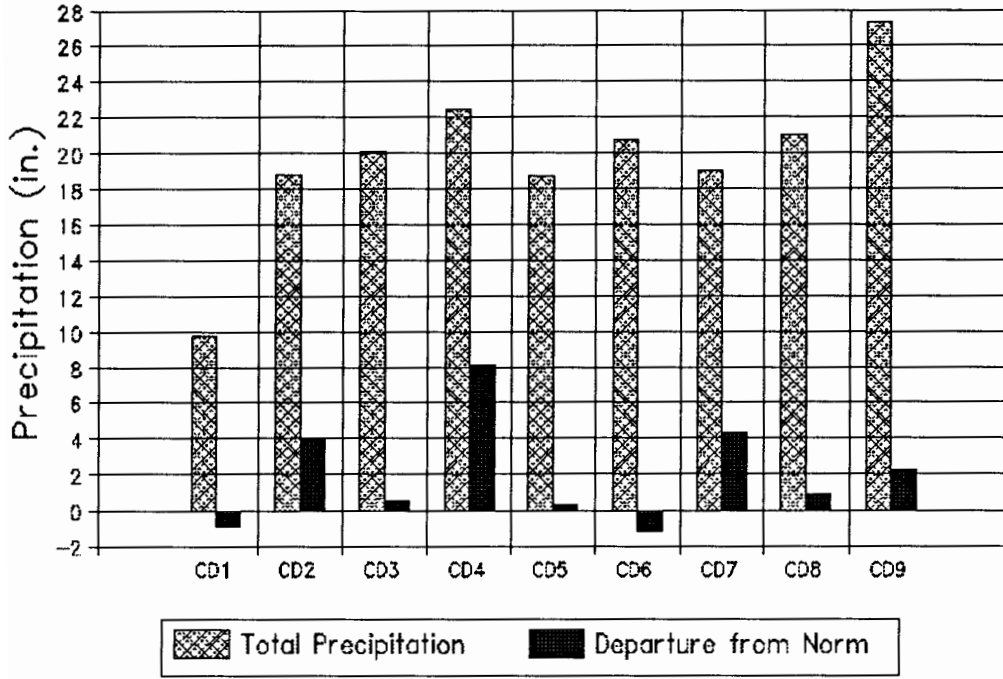
1996 and 1997 STATEWIDE TEMPERATURES Monthly Averages



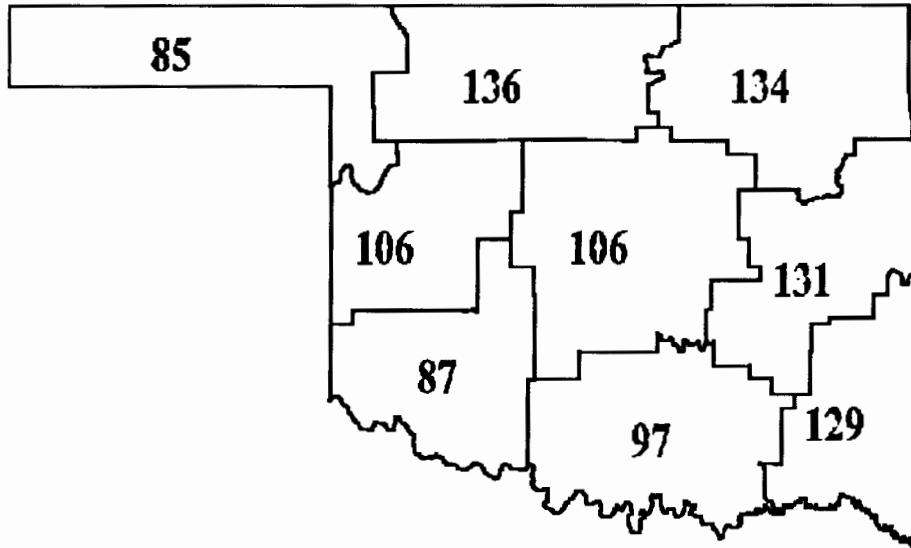
1996 and 1997 STATEWIDE PRECIPITATION Monthly Totals



CD Averaged Precipitation January through June 1997



CD PERCENT OF NORMAL PRECIPITATION JUNE 1997



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

CD	MAX TEMP	DATE	LOCATION	MIN TEMP	DATE	LOCATION	24-HOUR PRECIP	DATE	LOCATION	MONTHLY PRECIP	LOCATION
1	104	20	BUFFALO	47	1	BEAVER	2.33	10	BEAVER	6.47	BEAVER
2	102	20	JEFFERSON	48	1	BILLINGS	4.30	29	JEFFERSON	9.19	GREAT SALT P
				48	5	BILLINGS					
3	97	18	PAWHUSKA	49	2	BARNSDALL	3.14	30	HOMINY	8.51	BURBANK
				49	5	BARNSDALL					
4	102	20	GEARY	51	1	HAMMON	2.00	12	CANTON DAM	6.66	SAYRE
				51	5	HAMMON					
5	100	19	HENNESSEY	49	6	BRISTOW	2.86	9	PRAGUE	8.72	PRAGUE
	100	20	HENNESSEY	49	1	GUTHRIE					
6	99	28	WEBBERS FALL	47	1	STILWELL	4.70	17	DEWAR	9.49	TAHLEQUAH
7	101	19	ALTUS	47	12	HOLLIS	2.71	10	DUNCAN 11 W	5.70	HOLLIS
	101	20	HOLLIS								
	101	19	MANGUM								
8	98	29	WAURIKA	50	1	CHICKASAW	4.40	10	DURANT	6.73	COMANCHE
9	95	26	BEAR MT	46	2	SMITHVILLE	2.57	10	BOSWELL	10.30	FANSHAWE
	95	28	BROKEN BOW D								
	95	24	POTEAU								

TABLE OF 1996/1997 COMPARISONS

Station	JUNE Temperature (°F)		JUNE Precipitation (in.)	
	1996	1997	1996	1997
Arnett	74.6	71.9	4.22	1.52
Mutual	76.5	72.9	2.80	3.10
Tulsa	78.2	75.5	3.64	5.77
Elk City	77.8	73.5	4.69	4.56
Oklahoma City	77.8	75.3	2.21	2.41
McAlester	78.6	74.1	3.40	3.47
Altus Irr Station	81.3	76.6	4.08	5.25
Ardmore	78.2	77.9	3.61	4.16
Idabel	76.1	75.1	5.93	3.87

EXTREMES

VARIABLE	STATION	DIVISION	OBSERVATION	DATE
Minimum temperature (°F)	Smithville	9	46	2
Maximum temperature (°F)	Buffalo	1	104	20
Maximum 24-hour precipitation	Dewar	6	4.70"	17

JUNE 1997 SUMMARY FOR PANHANDLE DIVISION (CD1)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV		MAX TEMP	DAY	MIN TEMP	DAY	HEAT		DEV		COOL		DEV		TOT PPT	NUM OBS	DEV	
					FROM NORM	MAX TEMP					DEG DAY	FROM NORM	DEG DAY	FROM NORM	DEG DAY	FROM NORM	MAX 24-HR	DAY				
ARNETT	332	1	71.9	30	-2.8	95	21	54	1	8	8	215	-81	1.520	30	-2.18	0.31	23				
BEAVER	593	1	71.3	30	-3.6	102	22	47	1	11	3	201	-104	6.472	30	2.98	2.33	10				
BOISE CITY	908	1	71.3	30	-1.8	102	30	50	17	9	1	198	-53	1.862	30	-0.93	0.80	7				
BUFFALO	1243	1	75.0	30	-2.5	104	20	50	9	1	1	301	-75	2.650	30	-1.34	0.90	3				
FARGO	3070	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.131	30	-1.18	0.65	13				
GAGE	3407	1	72.4	29	-3.9	98	20	49	5	4	4	219	-121	2.303	29	*****	0.42	26				
GATE	3489	1	72.8	29	-3.5	99	22	55	5	7	2	232	-113	3.582	29	*****	1.50	10				
GOODWELL	3628	1	73.4	30	0.3	103	21	52	5	3	-5	255	4	1.480	30	-1.20	0.90	10				
GUYMON	3835	1	73.0	30	*****	101	20	52	1	7	*****	247	*****	0.850	30	*****	0.20	26				
HOOKER	4298	1	73.1	30	-1.7	102	21	52	1	1	-5	244	-57	1.696	30	-1.24	0.91	10				
KENTON	4766	1	71.6	30	-0.3	100	30	48	17	5	-8	203	-17	2.435	30	0.27	0.80	7				
LAVERNE	5045	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.463	30	1.39	0.86	10				
REGNIER	7534	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.540	30	0.30	0.77	7				
TURPIN	9017	1	71.3	26	*****	101	21	53	17	10	*****	174	*****	2.542	26	*****	1.12	10				

JUNE 1997 SUMMARY FOR NORTH CENTRAL DIVISION (CD2)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV		MAX TEMP	DAY	MIN TEMP	DAY	HEAT		DEV		COOL		DEV		TOT PPT	NUM OBS	DEV	
					FROM NORM	MAX TEMP					DEG DAY	FROM NORM	DEG DAY	FROM NORM	DEG DAY	FROM NORM	MAX 24-HR	DAY				
ALVA	193	2	76.1	30	*****	101	20	53	1	0	*****	334	*****	2.440	30	*****	1.12	13				
VANCE AFB	302	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.153	28	*****	1.40	26				
BILLINGS	755	2	74.1	30	-3	96	21	48	5	4	4	278	-85	6.551	30	2.40	2.05	26				
BLACKWELL 2E	818	2	73.9	22	*****	93	25	51	1	1	*****	197	*****	8.033	30	4.12	2.69	30				
BRAMAN	1075	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.150	30	*****	1.55	27				
CEDARDALE	1620	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.042	30	*****	1.15	13				
CHEROKEE	1724	2	76.2	30	-2.5	101	20	53	5	0	0	337	-74	7.651	30	3.83	2.24	13				
ENID	2912	2	76.4	30	-1.7	98	20	55	5	0	0	342	-52	5.290	30	1.15	1.51	30				
FT SUPPLY	3304	2	72.6	30	-2.7	96	21	54	5	3	-4	231	-84	2.430	30	-0.56	0.67	4				
FREEDOM	3358	2	72.7	30	-4.9	99	21	49	1	6	6	237	-141	1.900	30	-1.24	0.76	12				
GREAT SALT P	3740	2	75.0	28	*****	100	21	53	1	0	*****	279	*****	9.192	29	*****	3.59	30				
HARDY	3909	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.840	30	*****	2.65	26				
HELENA	4019	2	75.2	30	-1.1	100	21	52	5	0	0	306	-33	3.731	30	-0.09	1.43	26				
JEFFERSON	4573	2	76.0	30	-2.4	102	20	50	5	0	0	330	-72	7.281	30	3.24	4.30	29				
LAMONT	5013	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.570	30	*****	2.46	26				
MEDFORD	5768	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.620	30	*****	3.51	29				
MORRISON	6065	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.430	30	*****	2.30	30				
MUTUAL	6139	2	72.9	30	-3	99	30	51	1	2	2	239	-93	3.100	30	-0.21	1.15	4				
ORIENTA	6751	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.781	30	-0.93	1.15	26				
PERRY	7012	2	76.3	25	*****	97	20	53	5	0	*****	283	*****	4.470	25	*****	2.22	30				
PONCA CITY	7201	2	77.6	27	*****	98	25	53	1	0	*****	341	*****	6.973	28	*****	3.62	16				
RED ROCK	7505	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.781	30	3.69	2.43	30				

JUNE 1997 SUMMARY FOR NORTHEAST DIVISION (CD3)

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
BARNSDALL	535	3	73.4	29	-3.4	92	27	49	5	3	3	247	-107	3.602	29	*****	1.50	16
BARTLESVILLE	548	3	75.2	30	-1.6	94	20	51	6	1	1	308	-47	7.551	30	3.50	1.80	17
BIXBY	782	3	74.0	30	-1.9	94	28	52	6	0	0	269	-58	4.420	30	-0.20	1.80	30
BURBANK	1256	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	8.512	30	4.21	2.96	16
CHELSEA	1717	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.410	30	*****	1.30	16
CLAREMORE	1828	3	73.6	30	-2	91	21	50	2	2	2	259	-59	7.322	30	2.72	2.20	16
CLEVELAND 2	1902	3	74.1	30	*****	93	27	50	8	0	*****	273	*****	4.160	30	*****	2.02	30
FORAKER	3250	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.851	30	1.95	1.67	16
HOLLOW	4258	3	****	0	****	****	0	****	0	*****	*****	*****	*****	8.322	30	3.65	1.86	12
HOMINY	4289	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.903	30	3.01	3.14	30
KANSAS	4672	3	73.4	28	****	88	30	50	4	1	*****	237	*****	5.644	30	0.65	1.18	16
LENAPAH	5118	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.420	30	*****	1.80	26
MANNFORD	5522	3	74.8	30	-1.8	94	27	50	1	0	0	296	-53	4.501	30	0.62	1.93	30
MARAMEC	5540	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.323	30	-0.48	1.61	30
MIAMI	5855	3	72.2	20	****	90	28	50	5	1	*****	145	*****	4.410	22	*****	1.71	12
NOWATA	6485	3	73.9	30	-2.5	92	29	53	9	0	0	268	-74	7.710	30	3.15	1.39	10
PAWHUSKA	6935	3	74.6	30	-1.6	97	18	51	6	0	0	287	-50	7.621	30	3.08	1.65	30
PAWNEE	6940	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.141	30	0.30	1.60	30
PRYOR	7309	3	74.1	30	-1.2	92	28	51	2	0	0	273	-37	5.892	30	0.90	1.60	16
RALSTON	7390	3	74.7	30	-2.2	94	20	51	6	0	0	290	-67	5.180	30	1.03	1.75	30
SKIATOOK	8258	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.990	30	2.79	2.00	16
SPAVINAW	8380	3	75.0	30	-1.6	91	21	51	2	0	0	300	-49	4.591	30	-0.31	1.55	12
TULSA	8992	3	75.5	30	-2.2	94	20	53	6	0	0	315	-66	5.772	30	1.33	1.80	29
UPPER SPAV	9101	3	75.9	29	****	95	24	51	2	1	*****	317	*****	4.260	30	****	1.42	12
VINITA	9203	3	70.0	15	****	86	18	50	2	2	*****	77	*****	5.720	16	*****	2.06	28
WAGONER	9247	3	75.0	30	-1.7	92	27	51	3	0	0	299	-52	4.650	30	-0.77	1.29	30
WANN	9298	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.660	30	*****	1.05	26
WYNONA	9792	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.133	30	*****	1.91	30

JUNE 1997 SUMMARY FOR WEST CENTRAL DIVISION (CD4)

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
CANTON DAM	1445	4	73.5	29	-2.9	96	21	52	1	2	2	247	-95	4.720	30	0.90	2.00	12
CLINTON	1909	4	75.0	30	-3.3	96	29	54	17	0	0	301	-98	4.112	30	-0.04	1.89	13
COLONY	2039	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.273	30	*****	0.82	9
CORDELL	2125	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.290	30	0.44	1.28	13
ELK CITY	2849	4	73.5	30	-3.5	96	20	55	5	0	0	255	-106	4.561	30	0.69	0.93	12
ERICK	2944	4	74.5	30	-2.2	99	21	52	1	0	0	285	-67	2.061	30	-1.64	0.78	15
GEARY	3497	4	76.6	30	-0.2	102	20	61	5	0	0	349	-6	5.200	30	0.95	1.27	17
HAMMON	3871	4	72.3	30	-4.2	95	21	51	5	3	3	222	-127	3.670	30	-0.12	0.81	9
LEEDEY	5090	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.180	30	-0.34	1.08	16
MACKIE	5463	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.840	30	*****	1.15	10
MORAVIA	6035	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.211	30	1.41	1.51	10
OKEENE	6629	4	75.0	30	-3.3	99	20	53	1	0	0	301	-99	3.800	30	-0.35	1.40	26
RETROP	7565	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.740	30	*****	1.10	10
REYDON	7579	4	73.4	16	****	95	23	52	17	0	*****	135	*****	4.060	16	****	1.45	10
SAYRE	7952	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.660	30	3.00	1.70	10
SWEETWATER	8652	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.622	30	*****	1.20	26
TALOGA	8708	4	74.6	30	-2.2	99	28	54	5	0	0	289	-65	3.071	30	-0.64	0.92	4
THOMAS	8815	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.120	30	*****	0.72	17
VICI	9172	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.922	30	-0.62	0.54	23
WATONGA	9364	4	74.6	30	-2.6	96	20	55	2	0	0	288	-79	4.450	30	0.40	1.15	11
WEATHERFORD	9422	4	73.6	21	****	95	12	56	1	0	*****	181	*****	5.330	22	*****	1.70	12

JUNE 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	****	****	****	****	2.270	30	****	1.05	13
BLANCHARD	830	5	75.9	30	-1.2	92	29	55	1	0	0	327	-37	3.685	30	-0.33	2.01	10
BRISTOW	1144	5	75.1	30	-1.8	93	27	49	6	0	0	303	-54	3.972	30	0.10	1.31	18
CHANDLER	1684	5	74.7	24	****	96	30	50	8	5	****	237	****	3.390	24	****	1.95	30
CHICKASHA	1750	5	76.9	30	-1.5	96	30	55	1	0	0	359	-44	1.410	30	-2.30	0.37	13
COX CITY	2196	5	****	0	****	****	0	****	0	****	****	****	****	6.010	30	****	2.43	10
CUSHING	2318	5	75.4	29	-0.9	94	29	56	6	0	0	301	-39	2.963	29	****	1.40	30
EDMOND	2788	5	****	0	****	****	0	****	0	****	****	****	****	3.340	30	****	0.74	12
EL RENO	2818	5	76.3	30	-0.7	93	30	56	26	0	0	341	-20	7.990	30	3.60	2.70	29
GUTHRIE	3821	5	74.1	30	-3.8	94	20	49	1	0	0	272	-116	3.661	30	-0.57	1.36	30
HENNESSEY	4055	5	75.7	23	****	100	20	53	1	0	****	247	****	2.351	26	****	0.75	26
INGALLS	4489	5	****	0	****	****	0	****	0	****	****	****	****	2.943	30	****	1.12	30
KINGFISHER	4861	5	74.6	30	-3.5	95	30	51	11	1	1	289	-105	3.180	30	-1.09	0.83	10
KONAWA	4915	5	****	0	****	****	0	****	0	****	****	****	****	5.210	30	1.13	1.37	9
MARSHALL	5589	5	****	0	****	****	0	****	0	****	****	****	****	3.330	30	-0.65	0.98	13
MEEKER	5779	5	74.5	28	****	91	28	51	6	0	****	267	****	4.940	29	****	1.75	29
MULHALL	6110	5	****	0	****	****	0	****	0	****	****	****	****	4.950	30	****	2.25	30
NORMAN NWS	6386	5	74.5	30	-2.7	92	30	54	1	0	0	285	-81	4.215	30	0.13	1.78	13
OILTON	6616	5	****	0	****	****	0	****	0	****	****	****	****	2.770	30	****	1.95	29
OKMAH	6638	5	78.5	30	1.8	95	27	60	1	0	0	404	53	5.350	30	1.16	1.35	30
OKLAHOMA CTY	6661	5	75.3	30	-1.4	93	30	57	6	0	0	310	-41	2.417	30	-1.89	0.96	13
PERKINS	7003	5	****	0	****	****	0	****	0	****	****	****	****	4.150	30	-0.28	2.47	30
PIEDMONT	7068	5	****	0	****	****	0	****	0	****	****	****	****	2.010	30	****	0.43	27
PRAGUE	7264	5	****	0	****	****	0	****	0	****	****	****	****	8.724	30	4.92	2.86	9
PURCELL	7327	5	74.6	29	-3.1	93	29	52	2	0	0	277	-104	2.430	29	****	0.65	17
SEMINOLE	8042	5	75.3	30	-3	95	20	54	7	0	0	309	-91	6.810	30	2.60	2.04	28
SHAWNEE	8110	5	****	0	****	****	0	****	0	****	****	****	****	4.800	30	0.48	2.10	17
STELLA	8479	5	****	0	****	****	0	****	0	****	****	****	****	3.830	30	****	1.22	12
STILLWATER	8501	5	75.3	30	-0.9	94	20	50	6	0	0	310	-26	4.160	30	0.16	2.34	30
STROUD	8563	5	****	0	****	****	0	****	0	****	****	****	****	3.644	30	****	1.20	30
TECUMSEH	8751	5	****	0	****	****	0	****	0	****	****	****	****	4.460	30	****	1.30	13
TROUSDALE	8960	5	****	0	****	****	0	****	0	****	****	****	****	6.670	30	****	2.40	10
UNION CITY	9086	5	****	0	****	****	0	****	0	****	****	****	****	4.622	30	-0.07	1.46	13
WELTY	9479	5	****	0	****	****	0	****	0	****	****	****	****	5.362	30	****	1.65	17
WEWOKA	9575	5	****	0	****	****	0	****	0	****	****	****	****	5.880	30	1.82	1.46	24

JUNE 1997 SUMMARY FOR EAST CENTRAL DIVISON (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	****	****	****	****	1.692	30	****	0.66	17
BEGGS	631	6	****	0	****	****	0	****	0	****	****	****	****	4.380	30	****	1.38	30
CALVIN	1391	6	****	0	****	****	0	****	0	****	****	****	****	3.550	30	-0.98	2.70	17
CHECOTAH	1711	6	****	0	****	****	0	****	0	****	****	****	****	3.511	30	-0.38	1.29	30
CLAYTON	1858	6	****	0	****	****	0	****	0	****	****	****	****	2.550	30	****	0.52	17
DEWAR	2485	6	****	0	****	****	0	****	0	****	****	****	****	8.582	30	4.63	4.70	17
DUSTIN	2690	6	****	0	****	****	0	****	0	****	****	****	****	4.931	30	****	2.55	17
EUFULA	2993	6	75.9	30	-2.1	92	27	57	6	0	0	327	-64	4.240	30	0.21	1.25	30
HANNA	3884	6	74.9	30	-2.3	92	16	51	7	0	0	297	-70	5.105	30	1.39	1.21	29
HASKELL	3956	6	****	0	****	****	0	****	0	****	****	****	****	3.610	30	-1.09	1.80	30
LAKE EUFAULA	4975	6	73.3	23	****	87	28	57	1	0	****	192	****	5.231	24	****	1.12	13
LYONS	5437	6	****	0	****	****	0	****	0	****	****	****	****	6.053	30	1.59	1.67	29
MARBLE CITY	5546	6	****	0	****	****	0	****	0	****	****	****	****	5.220	30	****	2.30	28
MCALESTER	5664	6	74.1	20	****	92	27	52	1	0	****	183	****	3.473	22	****	1.59	16
MCCURTAIN	5693	6	75.3	30	-2.1	95	25	49	14	0	0	311	-62	4.522	30	0.35	2.38	17
MUSKOGEE	6130	6	75.6	26	****	92	25	54	2	0	****	275	****	7.312	30	3.02	2.94	16
OKMULGEE	6670	6	72.3	24	****	92	28	49	6	4	****	179	****	4.340	24	****	1.30	30
OKTAHA	6678	6	****	0	****	****	0	****	0	****	****	****	****	4.161	30	****	1.64	30
QUINTON	7372	6	****	0	****	****	0	****	0	****	****	****	****	6.681	30	2.45	2.96	16
SALLISAW	7862	6	73.3	30	-3.8	91	26	54	1	0	0	249	-115	5.830	30	2.27	2.40	29
SCIPIO	7979	6	****	0	****	****	0	****	0	****	****	****	****	3.930	30	****	1.32	17
SCRAPER	7993	6	****	0	****	****	0	****	0	****	****	****	****	7.900	30	****	1.70	28
SHORT	8170	6	****	0	****	****	0	****	0	****	****	****	****	6.570	30	****	2.37	29
STILWELL	8506	6	70.4	30	-4.6	88	30	47	1	9	9	172	-129	7.700	30	3.48	1.52	28
TAHLEQUAH	8677	6	73.7	30	-1.9	90	29	50	2	0	0	261	-58	9.490	30	4.96	2.20	17
WEBBERS FALL	9445	6	74.9	30	-1.8	99	28	48	2	0	0	299	-53	3.740	30	0.07	1.40	29
WESTVILLE	9523	6	****	0	****	****	0	****	0	****	****	****	****	7.980	30	****	1.86	17
WETUMKA	9571	6	****	0	****	****	0	****	0	****	****	****	****	6.083	30	1.98	2.52	17

JUNE 1997 SUMMARY FOR SOUTHWEST DIVISION (CD7)

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
ALTUS	179	7	76.6	30	-3.3	101	19	56	1	0	0	347	-100	5.250	30	1.74	1.90	27
ALTUS DAM	184	7	76.1	30	-2.8	100	20	51	1	0	0	333	-85	1.970	30	-1.74	0.44	16
ANADARKO	224	7	73.2	30	-4.3	93	21	53	6	0	0	245	-131	2.300	30	-1.56	0.74	10
APACHE	260	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.740	30	-1.19	0.90	13
ALTUS AFB	447	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.642	29	*****	0.71	16
CARNEGIE	1504	7	76.5	29	-1.6	96	20	58	1	0	0	334	-65	2.554	30	-1.45	0.71	12
CHATTANOOGA	1706	7	77.9	30	-1.5	100	20	56	1	0	0	387	-45	1.621	30	-1.77	0.51	23
DUNCAN 11 W	2668	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.972	30	*****	2.71	10
FREDERICK	3353	7	77.3	30	-1.9	97	30	59	1	0	0	368	-59	3.370	30	-0.08	0.92	15
HEADRICK	3998	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.110	30	*****	2.18	9
HOBART	4204	7	76.6	22	*****	100	29	56	5	0	*****	255	*****	1.922	27	*****	0.72	9
HOLLIS	4249	7	74.9	30	-4.7	101	20	47	12	0	0	298	-141	5.700	30	2.01	2.14	12
LAWTON	5063	7	76.6	30	-1.7	96	21	58	1	0	0	347	-52	2.320	30	-1.30	0.60	10
FORT SILL	5068	7	77.1	30	*****	97	20	57	1	0	*****	363	*****	2.424	30	*****	0.50	16
LOOKEBA	5329	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.942	30	-0.22	1.30	13
MANGUM	5509	7	77.4	30	-2.1	101	19	56	5	0	0	372	-63	3.650	30	-0.12	0.93	9
RANDLETT	7403	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.231	30	*****	1.99	17
ROOSEVELT	7727	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.940	29	*****	1.00	10
SEDAN	8016	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.412	30	*****	0.44	13
SNYDER	8299	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.632	30	-0.83	0.61	24
VINSON	9212	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.120	30	-0.34	0.78	26
WALTERS	9278	7	76.7	30	-2.6	94	30	57	1	0	0	352	-77	3.210	30	-0.93	2.10	17
WICHITA MT	9629	7	74.8	29	-1.9	94	24	55	9	0	0	284	-68	2.650	30	-1.17	0.65	23
WILLOW	9668	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.170	30	*****	0.70	26

JUNE 1997 SUMMARY FOR SOUTH CENTRAL DIVISION (CD8)

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
ADA	17	8	74.6	30	-2.3	91	27	53	1	0	0	288	-69	4.711	30	0.61	1.46	17
ALLEN	147	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.990	30	*****	2.35	17
ARDMORE	292	8	77.9	30	-1.4	95	19	58	10	0	0	388	-42	4.160	30	0.30	2.25	9
ATOKA DAM	394	8	76.5	21	*****	95	17	56	2	0	*****	241	*****	5.012	21	*****	2.04	10
CANEY	1437	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.640	30	*****	2.07	10
CENTRAHOMA	1648	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.600	30	*****	2.00	30
CHICKASAW	1745	8	74.6	29	-2.3	92	17	50	1	1	1	280	-77	2.420	29	*****	0.92	24
COLEMAN	2011	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.300	30	*****	1.15	10
COMANCHE	2054	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.730	30	2.91	3.30	17
DAISY	2354	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.623	30	-0.64	1.48	17
DUNCAN	2660	8	75.9	30	-2	92	30	57	1	0	0	329	-59	4.440	30	0.46	1.50	17
DURANT	2678	8	76.1	28	*****	93	28	56	2	0	*****	312	*****	5.290	28	*****	4.40	10
ELMORE CITY	2872	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.410	30	*****	2.00	16
GRADY	3688	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.610	26	*****	3.00	9
HEALDTON	4001	8	75.9	30	-2.1	93	30	55	1	0	0	326	-64	2.682	30	-1.49	0.95	9
HENNEPIN	4052	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.610	30	*****	1.52	17
KETCHUM RAN	4780	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.190	30	*****	1.65	17
KINGSTON	4865	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.941	30	0.86	3.17	10
LEHIGH	5108	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.852	30	*****	1.20	10
LINDSAY	5216	8	76.0	30	-1.5	94	30	57	4	0	0	330	-45	3.490	30	-0.53	1.51	16
LOCO	5247	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.110	30	*****	1.30	10
MARIETTA	5563	8	76.8	30	-1.3	93	16	55	1	0	0	353	-41	4.631	30	0.63	1.37	10
MARLOW	5581	8	74.8	29	-2.3	94	29	51	1	0	0	284	-79	4.030	29	*****	1.52	17
MCGEE CREEK	5713	8	76.2	29	*****	93	17	54	1	0	*****	325	*****	4.330	30	*****	1.41	10
PAULS VALLEY	6926	8	74.3	30	-4	92	30	52	1	0	0	278	-121	3.921	30	0.02	2.80	17
PONTOTOC	7214	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.540	30	-0.57	2.00	8
TISHOMINGO	8884	8	77.8	30	-0.8	96	29	56	6	0	0	384	-24	1.080	30	-3.52	0.26	13
TUSSY	9032	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.300	30	*****	2.21	8
WAURIKA	9395	8	78.0	30	-1.3	98	29	59	1	0	0	389	-40	2.360	30	-1.37	0.98	10

JUNE 1997 SUMMARY FOR SOUTHEAST DIVISION (CD9)

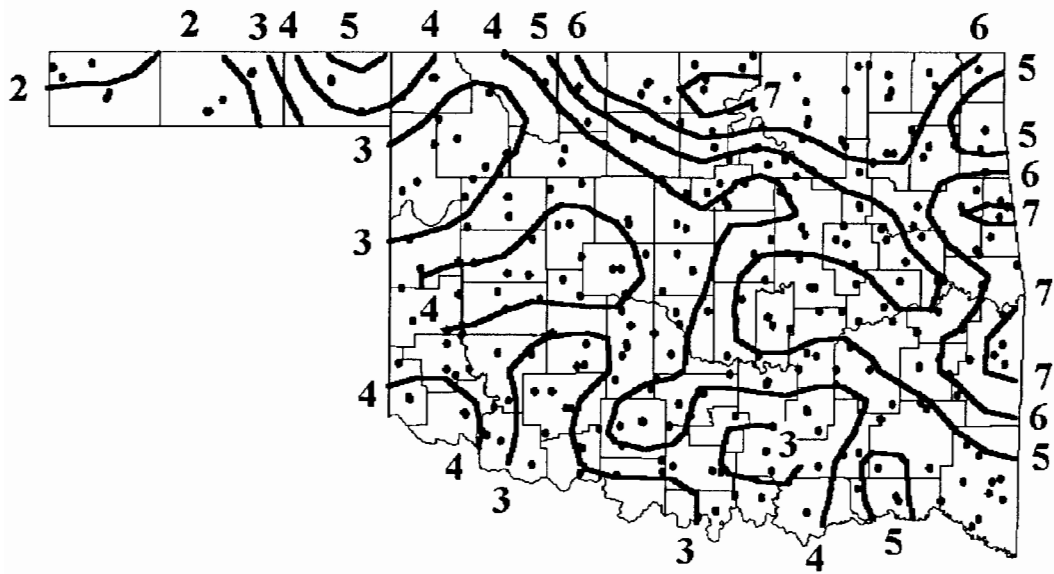
NAME	ID	CD	MEAN TEMP	NUM OBS	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
ANTLERS	256	9	75.5	30	-1.7	92	27	52	2	0	0	314	-52	*****	0	*****	*****	0
BATTIEST	567	9	70.2	30	*****	89	27	47	3	11	*****	168	*****	6.340	30	*****	2.08	28
BEAR MT	584	9	76.4	26	*****	95	26	52	3	0	*****	296	*****	3.650	30	-0.51	1.26	29
BENGAL	670	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.561	30	*****	2.02	17
BOSWELL	980	9	76.0	30	-1.4	92	27	54	2	0	0	331	-42	4.791	30	0.68	2.57	10
BROKEN BOW	1162	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.420	30	0.08	1.55	16
BROKEN BOW D	1168	9	74.8	30	-1.7	95	28	50	2	0	0	293	-50	4.442	30	0.13	2.42	15
CARNASAW	1499	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.052	30	-0.50	1.70	16
CARTER TWR	1544	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.870	27	*****	1.80	9
FANSHAWE	3065	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	10.300	30	6.07	2.01	17
HEAVENER	4008	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	8.060	30	3.99	1.75	9
HUGO	4384	9	76.6	30	-1.5	92	27	56	2	0	0	347	-46	6.090	30	1.34	1.70	26
IDABEL	4451	9	75.1	30	-1.9	94	28	52	2	0	0	303	-58	3.872	30	-0.42	1.05	16
POTEAU	7254	9	74.4	30	*****	95	24	49	2	0	*****	282	*****	8.511	30	*****	2.53	16
SMITHVILLE	8285	9	71.8	29	-3.3	92	28	46	2	5	5	204	-100	4.406	29	*****	1.60	16
SPIRO	8416	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.550	30	3.02	2.33	17
TUSKAHOMA	9023	9	74.8	30	-2.3	94	27	47	2	1	1	295	-69	3.991	30	-0.79	1.11	17
VALLIANT	9118	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.510	30	-0.48	1.58	10
WILBURTON	9634	9	74.6	30	-1.7	93	25	48	2	1	1	290	-50	4.932	30	0.81	1.66	16

JUNE 1997 CLIMATE DIVISION SUMMARY

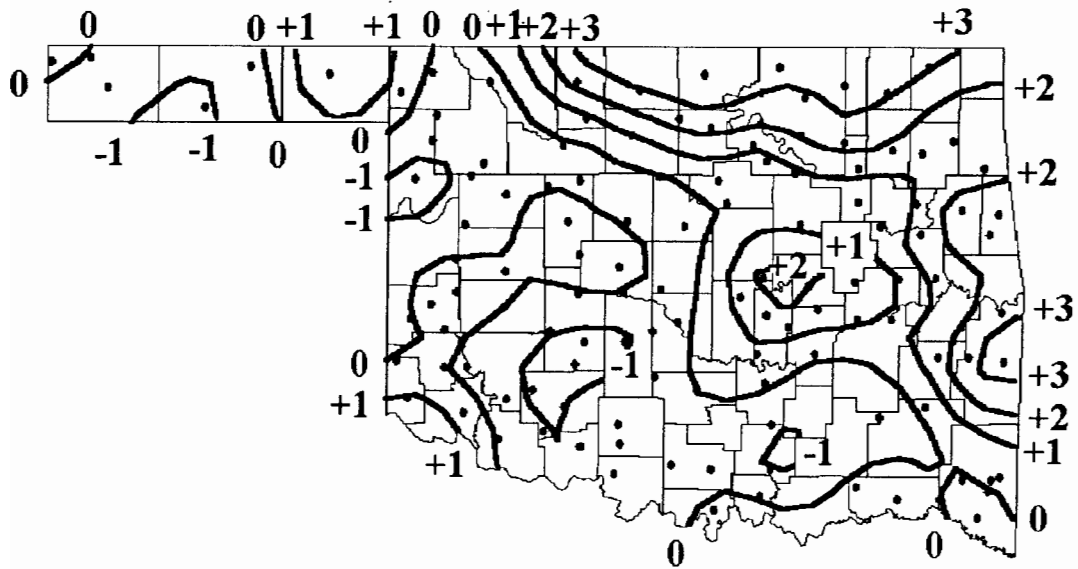
CD	MEAN TEMP	NUM STA	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEG DAYS	DEV FROM NORM	COOL DEG DAYS	DEV FROM NORM	TOT PPT	NUM STA	DEV FROM NORM	MAX 24-HR	DAY
1	72.6	10	-2.2	104	20	47	1	5	0	231	-67	2.550	11	-0.46	2.33	10
2	74.7	9	-2.5	102	20	48	5	2	1	293	-75	5.090	18	1.35	4.30	29
3	74.6	14	-1.6	97	18	49	5	0	0	286	-49	5.960	25	1.51	3.14	30
4	74.4	9	-2.7	102	20	51	5	1	1	282	-81	4.080	19	0.24	2.00	12
5	75.5	13	-1.6	100	20	49	1	0	0	314	-51	4.390	30	0.24	2.86	9
6	74.1	7	-2.7	99	28	47	1	1	1	273	-79	5.410	25	1.28	4.70	17
7	76.2	12	-2.4	101	19	47	12	0	0	336	-75	3.210	21	-0.48	2.71	10
8	76.1	12	-1.8	98	29	50	1	0	0	329	-57	3.990	24	-0.11	4.40	10
9	74.4	10	-2.5	95	24	46	2	2	2	282	-73	5.500	16	1.24	2.57	10

MESONET MONTHLY SUMMARY FOR JUNE 1997

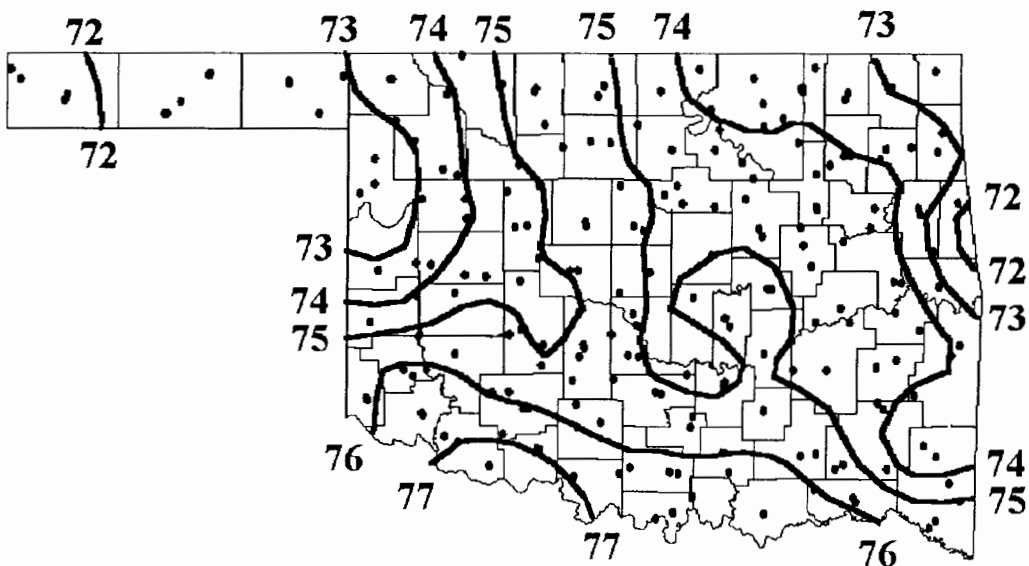
NAME	MEAN MAX			MIN			TOT MAX			NAME	MEAN MAX			MIN			TOT MAX				
	TEMP	TEMP	DAY	TEMP	DAY	HDD	CDD	PPT	24-HR		DAY	TEMP	TEMP	DAY	TEMP	DAY	HDD	CDD	PPT	24-HR	DAY
PANHANDLE																					
Arnett	72.5	96	19	52	5	4	228	2.12	.66	23	Goodwell	72.6	105	30	50	17	4	232	1.07	.59	9
Beaver	72.8	101	20	52	5	5	239	4.43	2.29	9	Hooker	73.2	106	30	51	5	6	252	1.62	.79	9
Boise City	70.8	101	30	52	4	8	182	1.99	.71	6	Kenton	71.3	101	30	48	17	6	194	1.36	.31	8
Buffalo	73.9	102	20	51	5	3	270	3.80	1.22	9	Slapout	72.7	101	20	54	4	5	234	4.45	1.90	9
NORTH CENTRAL																					
Alva	75.1	102	20	53	1	1	303	2.97	1.18	12	May Ranch	73.8	97	20	55	3	2	267	4.47	.98	23
Blackwell	74.7	96	20	52	1	0	291	9.88	4.02	16	Medford	75.0	101	20	49	5	0	301	6.06	2.77	29
Breckenridge	75.1	98	20	50	1	0	301	4.61	1.74	26	Newkirk	73.6	92	20	55	1	0	257	5.83	1.87	16
Cherokee	75.6	103	20	52	1	0	319	6.56	1.54	26	Red Rock	74.7	95	20	50	6	0	289	4.86	2.34	29
Fairview	75.9	101	20	53	1	0	326	2.90	.68	11	Seiling	74.4	98	19	54	1	0	281	2.86	.88	3
Freedom	73.9	98	20	53	5	1	269	2.39	1.06	11	Woodward	72.8	94	20	53	5	2	235	2.74	.83	3
Lahoma	74.8	99	20	53	1	0	293	3.36	1.26	26											
NORTHEAST																					
Bixby	75.1	92	19	53	1	0	302	5.31	1.66	29	Nowata	73.2	92	27	49	5	3	248	7.33	1.78	16
Burbank	73.2	92	20	51	1	0	246	8.04	2.76	26	Pawnee	74.2	93	20	50	1	0	275	4.04	1.20	29
Catoosa	74.7	93	27	53	2	0	291	5.55	1.90	29	Pryor	73.1	91	20	49	1	5	247	4.93	1.18	12
Claremore	73.9	92	19	50	2	0	267	6.40	1.80	16	Skiatook	73.4	91	19	52	2	0	252	6.07	2.20	16
Copan	73.8	92	20	52	5	0	263	5.82	1.77	25	Tulahassee	74.9	92	19	52	2	0	296	5.71	1.45	16
Foraker	72.8	91	20	53	2	0	234	7.15	2.59	16	Vinita	72.7	92	27	49	5	5	237	6.12	1.55	17
Jay	72.2	91	27	46	2	12	227	1.52	.38	13	Wynona	73.6	92	20	52	2	0	257	6.07	1.77	29
Miami	72.9	91	20	50	2	6	243	5.76	1.39	12											
WEST CENTRAL																					
Bessie	74.7	96	20	56	5	0	291	3.75	.68	12	Putnam	73.6	96	20	54	5	1	260	4.14	1.34	9
Butler	74.4	97	20	55	1	0	281	4.42	.88	9	Retrop	74.7	96	19	56	5	0	291	5.25	1.82	9
Camargo	73.2	95	19	53	5	0	244	2.07	.47	23	Watonga	74.3	96	19	55	5	0	281	4.19	.85	9
Cheyenne	72.8	94	19	56	5	0	233	4.11	.80	23	Weatherford	74.2	96	19	56	5	0	274	4.72	1.40	13
Erick	74.4	99	20	55	1	0	272	1.55	.73	14											
CENTRAL																					
Acme	75.2	92	19	54	1	0	304	3.68	1.20	13	Minco	74.5	92	19	56	5	0	286	4.40	1.20	9
Bowlegs	74.1	91	20	52	1	0	273	4.26	1.05	13	Ninnekah	75.6	94	30	54	1	0	317	2.12	.65	13
Bristow	73.9	94	27	47	6	1	269	4.58	1.14	29	Norman	74.8	93	30	56	1	0	295	4.22	1.31	13
Chandler	74.3	91	20	53	1	0	277	4.79	1.54	29	Oilton	73.8	94	27	48	1	4	267	3.29	1.36	29
Chickasha	75.6	96	30	55	1	0	319	1.41	.31	13	Okemah	74.5	92	19	51	6	0	284	5.24	1.07	23
El Reno	73.4	92	19	52	1	0	254	7.60	2.42	28	Perkins	75.5	96	19	50	1	0	315	3.86	2.23	29
Guthrie	75.6	95	19	54	1	0	319	3.31	.76	29	Shawnee	75.4	93	20	53	1	0	311	4.26	1.08	16
Kingfisher	75.6	96	19	51	1	0	318	2.95	.97	26	Spencer	74.9	92	20	51	1	0	296	2.97	.87	13
Marena	74.8	93	20	55	1	0	294	5.13	2.43	29	Stillwater	74.5	93	19	49	1	0	285	4.18	2.27	29
Marshall	75.3	96	19	50	1	0	309	3.61	1.00	26	Washington	74.8	91	16	55	1	0	294	2.75	1.30	16
EAST CENTRAL																					
Calvin	75.4	92	16	54	1	0	312	3.90	1.58	16	Preston	74.6	91	19	56	6	0	287	3.75	1.35	29
Cookson	72.5	92	25	47	1	5	230	5.30	1.52	16	Sallisaw	71.6	91	30	48	1	3	201	6.95	2.28	28
Eufaula	74.7	91	19	54	1	0	291	5.39	1.71	16	Stigler	74.5	93	27	50	2	0	284	4.48	1.61	16
Haskell	74.3	92	27	52	2	0	280	3.17	1.11	29	Stuart	74.5	92	16	54	1	0	286	5.51	3.49	16
Hectorville	75.2	92	27	54	1	0	305	3.93	1.21	29	Tahlequah	72.4	90	20	48	1	4	227	6.94	3.19	16
McAlester	74.6	92	16	51	1	0	286	5.59	2.56	16	Webbers Falls	75.8	96	27	50	2	0	325	4.06	1.29	28
Okmulgee	73.9	91	19	49	2	0	267	4.23	1.16	29	Westville	71.8	88	19	49	2	5	210	9.73	3.44	16
SOUTHWEST																					
Altus	77.3	100	19	57	1	0	370	5.41	1.96	26	Hollis	76.4	99	19	58	5	0	341	4.87	1.59	11
Apache	74.6	93	20	58	1	0	287	1.86	.53	28	Mangum	75.6	97	19	57	1	0	318	3.69	1.10	9
Fort Cobb	75.4	97	20	57	1	0	312	*****	*****	0	Medicine Park	74.9	93	29	59	1	0	296	2.30	.59	3
Grandfield	77.4	97	20	59	1	0	372	1.73	.39	22	Tipton	77.2	97	19	58	1	0	365	4.16	.76	16
Hinton	74.5	96	20	55	5	0	286	5.47	1.56	9	Walters	76.7	95	29	56	1	0	350	3.45	2.04	16
Hobart	76.3	98	19	56	1	0	338	3.07	.89	14											
SOUTH CENTRAL																					
Ada	75.1	92	16	53	2	0	303	4.72	1.39	16	Lane	75.8	92	27	54	2	0	323	3.03	1.70	9
Ardmore	76.1	93	16	56	1	0	334	3.45	1.63	9	Madill	76.7	93	27	54	1	0	351	2.27	1.09	9
Burneyville	76.1	93	19	53	1	0	332	2.94	1.23	9	Pauls Valley	75.5	92	16	55	1	0	315	3.31	1.85	16
Byars	74.9	91	19	56	1	0	297	4.69	1.27	16	Ringling	76.3	94	18	57	1	0	337	1.23	.62	22
Centrahoma	75.3	93	16	52	1	0	308	3.34	1.00	9	Sulphur	75.2	92	30	53	1	0	305	2.04	.81	23
Durant	76.5	92	12	57	1	0	344	3.01	2.03	9	Tishomingo	75.4	93	27	53	1	0	311	1.25	.33	16
Ketchum Ranch	75.6	92	19	56	1	0	317	5.47	1.59	16	Waurika	76.9	95	29	57	1	0	358	2.80	1.01	9
SOUTHEAST																					
Antlers	74.9	93	25	49	2	0	296	9.96	3.53	28	Idabel	75.8	92	25	54	1	0	325	5.61	2.21	15
Broken Bow	75.6	93	14	53	1	0	316	4.22	1.01	29	Mt Herman	73.0	90	25	48	2	2	243	4.97	1.64	15
Clayton	74.6	92	25	50	2	0	288	4.74	1.60	28	Talihina	74.1	92	25	49	2	1	273	4.52	1.03	28
Cloudy	74.3	91	27	53	1	0	278	2.97	.70	28	Wilburton	74.6	93	16	49	2	0	289	8.36	2.71	16
Hugo	75.9	92	25	56	1	0	326	5.04	1.97	13	Wister	74.7	93	27	47	2	0	290	7.40	2.09	16



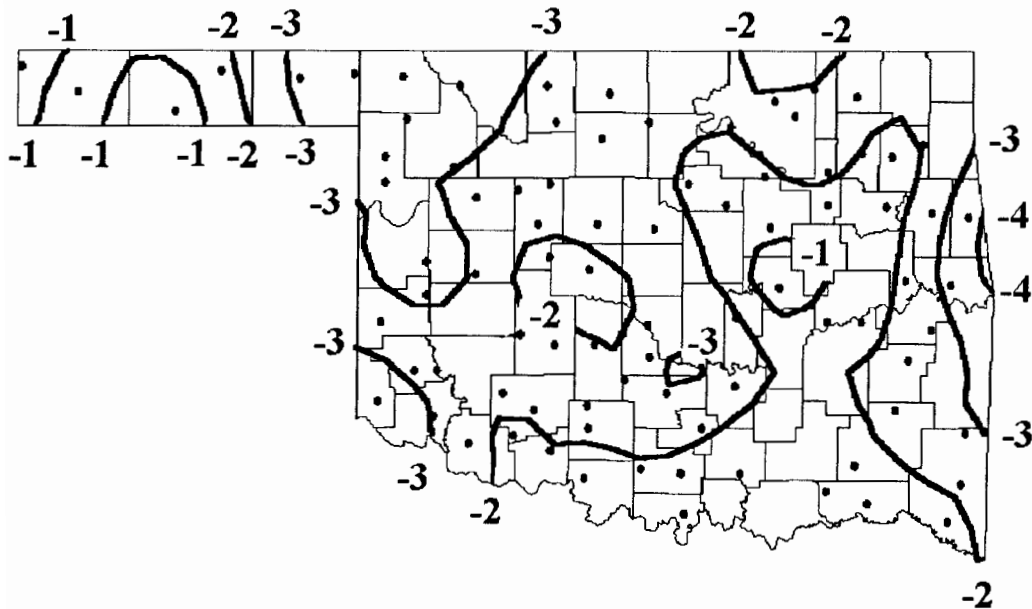
**JUNE 1997 TOTAL PRECIPITATION
(INCHES)**



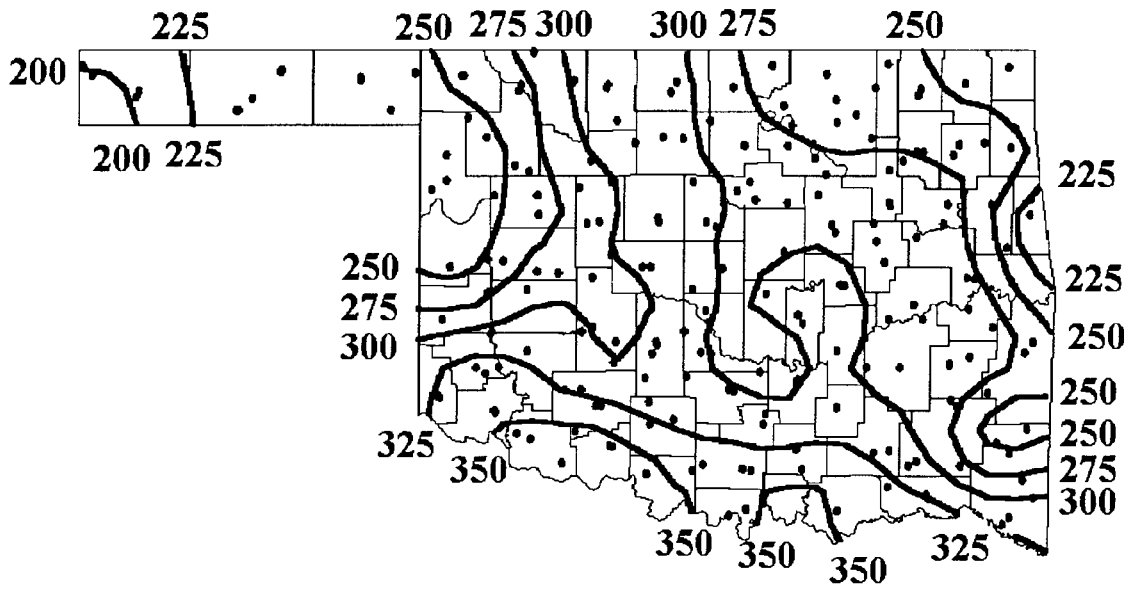
**JUNE 1997 DEPARTURE FROM NORMAL PRECIPITATION
(INCHES)**



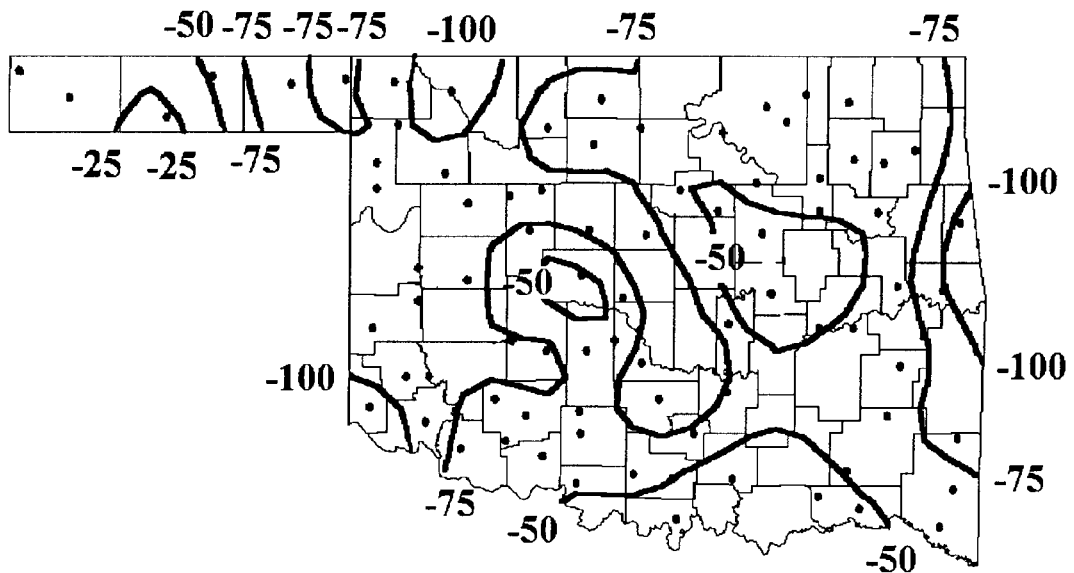
JUNE 1997 AVERAGE MONTHLY TEMPERATURE (°F)



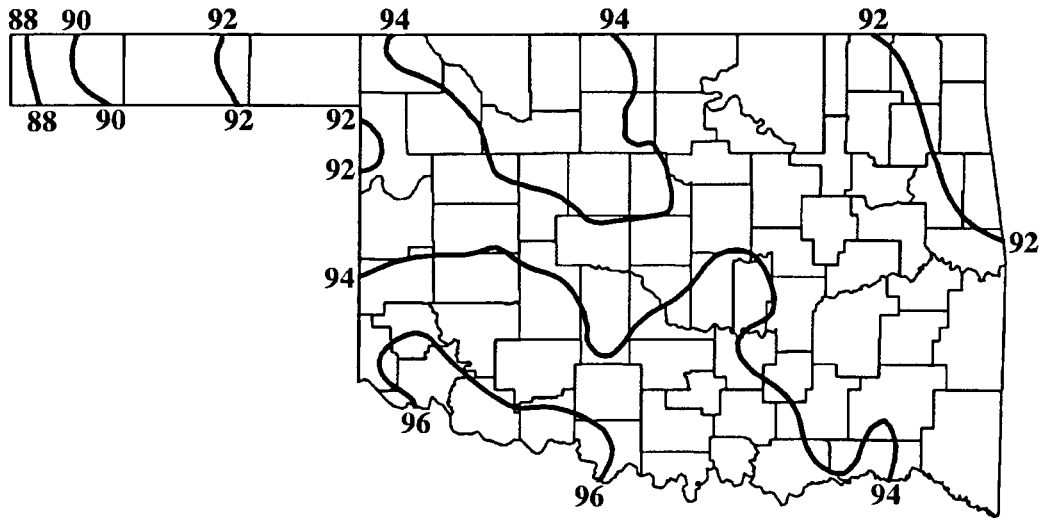
JUNE 1997 DEPARTURE FROM NORMAL TEMPERATURE (°F)



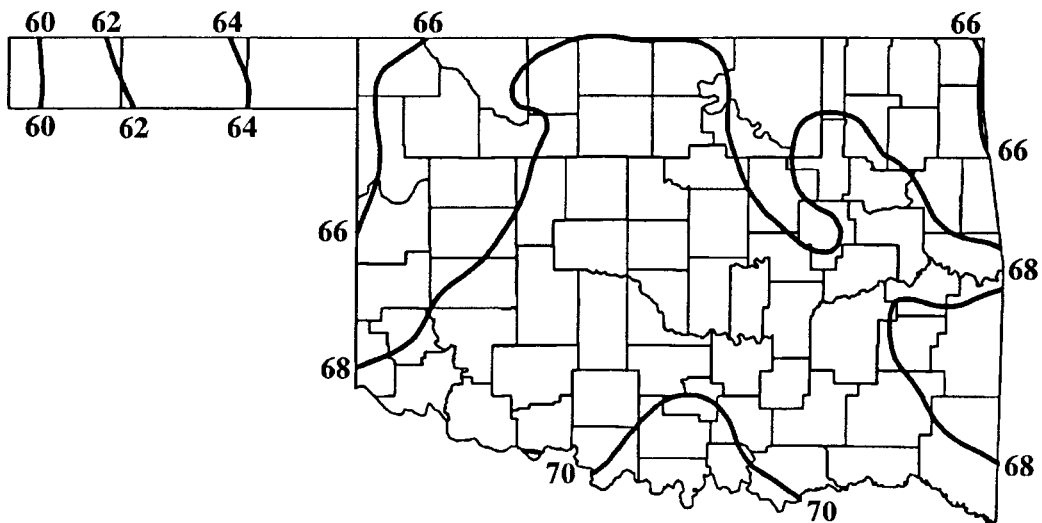
JUNE 1997 ACCUMULATED COOLING DEGREE DAYS (°F)



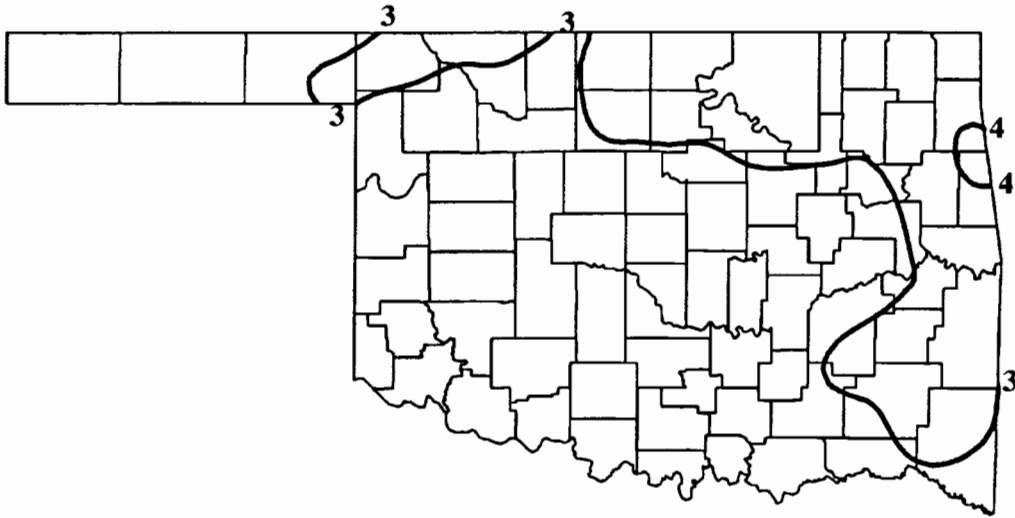
JUNE 1997 DEPARTURE FROM NORMAL COOLING DEGREE DAYS (°F)



AUGUST NORMAL DAILY MAXIMUM TEMPERATURE (°F)



AUGUST NORMAL DAILY MINIMUM TEMPERATURE (°F)



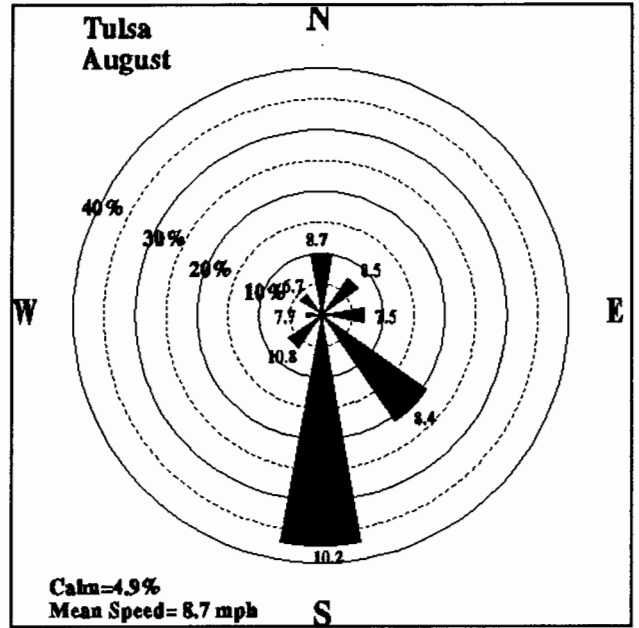
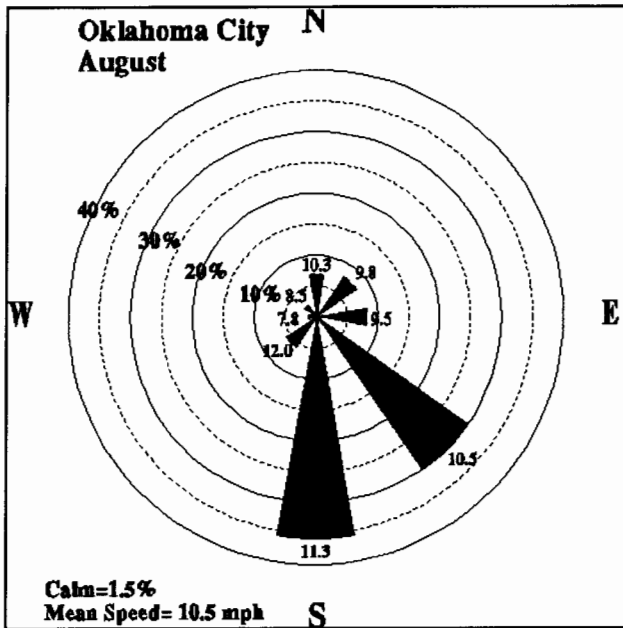
AUGUST NORMAL MONTHLY PRECIPITATION (inches)

OUTLOOK FOR AUGUST THROUGH OCTOBER 1997

BASED ON SEASONAL OUTLOOKS PROVIDED BY THE CLIMATE PREDICTION CENTER

TEMPERATURE: Lower Than Normal Statewide

PRECIPITATION: Near Normal Statewide



August 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.

AUGUST 1997 SUNRISE AND SUNSET

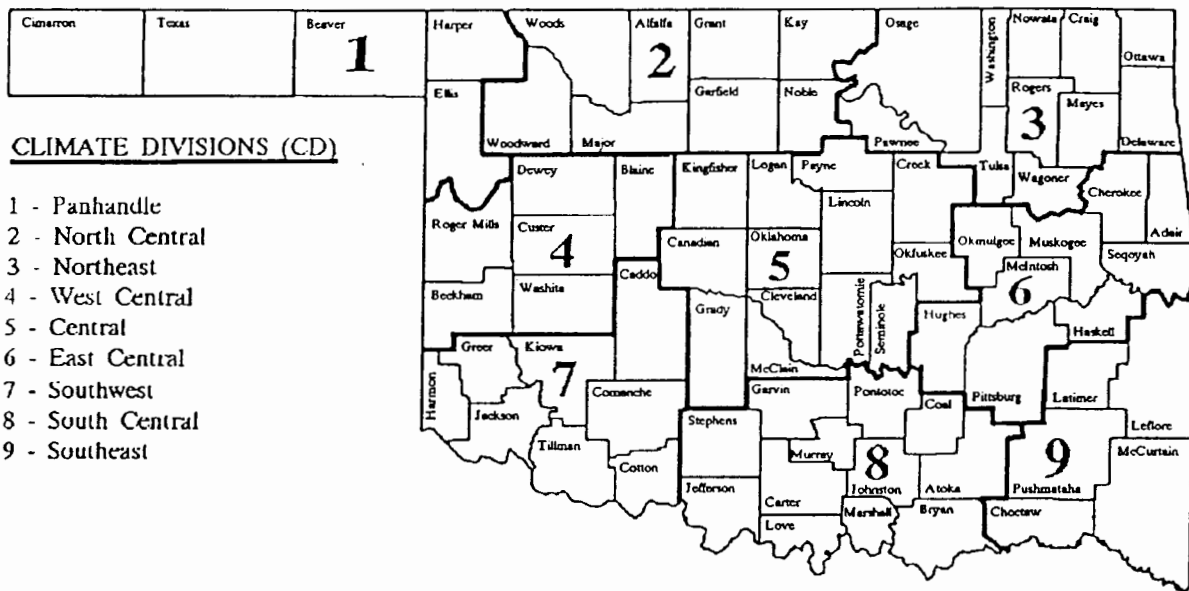
OKLAHOMA CITY

DATE	SUNRISE	SUNSET	DAYLIGHT
97 8 1	6:39AM	8:34PM CDT	13 hrs 55 mins
97 8 2	6:40AM	8:34PM CDT	13 hrs 54 mins
97 8 3	6:41AM	8:33PM CDT	13 hrs 52 mins
97 8 4	6:41AM	8:32PM CDT	13 hrs 51 mins
97 8 5	6:42AM	8:31PM CDT	13 hrs 49 mins
97 8 6	6:43AM	8:30PM CDT	13 hrs 47 mins
97 8 7	6:43AM	8:29PM CDT	13 hrs 46 mins
97 8 8	6:44AM	8:28PM CDT	13 hrs 44 mins
97 8 9	6:45AM	8:27PM CDT	13 hrs 42 mins
97 8 10	6:46AM	8:26PM CDT	13 hrs 41 mins
97 8 11	6:46AM	8:25PM CDT	13 hrs 39 mins
97 8 12	6:47AM	8:24PM CDT	13 hrs 37 mins
97 8 13	6:48AM	8:23PM CDT	13 hrs 35 mins
97 8 14	6:49AM	8:22PM CDT	13 hrs 33 mins
97 8 15	6:49AM	8:21PM CDT	13 hrs 31 mins
97 8 16	6:50AM	8:20PM CDT	13 hrs 30 mins
97 8 17	6:51AM	8:18PM CDT	13 hrs 28 mins
97 8 18	6:51AM	8:17PM CDT	13 hrs 26 mins
97 8 19	6:52AM	8:16PM CDT	13 hrs 24 mins
97 8 20	6:53AM	8:15PM CDT	13 hrs 22 mins
97 8 21	6:54AM	8:14PM CDT	13 hrs 20 mins
97 8 22	6:54AM	8:12PM CDT	13 hrs 18 mins
97 8 23	6:55AM	8:11PM CDT	13 hrs 16 mins
97 8 24	6:56AM	8:10PM CDT	13 hrs 14 mins
97 8 25	6:57AM	8: 9PM CDT	13 hrs 12 mins
97 8 26	6:57AM	8: 7PM CDT	13 hrs 10 mins
97 8 27	6:58AM	8: 6PM CDT	13 hrs 8 mins
97 8 28	6:59AM	8: 5PM CDT	13 hrs 6 mins
97 8 29	6:59AM	8: 3PM CDT	13 hrs 4 mins
97 8 30	7: 0AM	8: 2PM CDT	13 hrs 2 mins
97 8 31	7: 1AM	8: 1PM CDT	13 hrs 0 mins

TULSA

DATE	SUNRISE	SUNSET	DAYLIGHT
97 8 1	6:31AM	8:29PM CDT	13 hrs 59 mins
97 8 2	6:31AM	8:28PM CDT	13 hrs 57 mins
97 8 3	6:32AM	8:28PM CDT	13 hrs 55 mins
97 8 4	6:33AM	8:27PM CDT	13 hrs 54 mins
97 8 5	6:34AM	8:26PM CDT	13 hrs 52 mins
97 8 6	6:34AM	8:25PM CDT	13 hrs 50 mins
97 8 7	6:35AM	8:24PM CDT	13 hrs 49 mins
97 8 8	6:36AM	8:23PM CDT	13 hrs 47 mins
97 8 9	6:37AM	8:22PM CDT	13 hrs 45 mins
97 8 10	6:37AM	8:21PM CDT	13 hrs 43 mins
97 8 11	6:38AM	8:20PM CDT	13 hrs 42 mins
97 8 12	6:39AM	8:19PM CDT	13 hrs 40 mins
97 8 13	6:40AM	8:18PM CDT	13 hrs 38 mins
97 8 14	6:40AM	8:16PM CDT	13 hrs 36 mins
97 8 15	6:41AM	8:15PM CDT	13 hrs 34 mins
97 8 16	6:42AM	8:14PM CDT	13 hrs 32 mins
97 8 17	6:43AM	8:13PM CDT	13 hrs 30 mins
97 8 18	6:44AM	8:12PM CDT	13 hrs 28 mins
97 8 19	6:44AM	8:10PM CDT	13 hrs 26 mins
97 8 20	6:45AM	8: 9PM CDT	13 hrs 24 mins
97 8 21	6:46AM	8: 8PM CDT	13 hrs 22 mins
97 8 22	6:47AM	8: 7PM CDT	13 hrs 20 mins
97 8 23	6:47AM	8: 5PM CDT	13 hrs 18 mins
97 8 24	6:48AM	8: 4PM CDT	13 hrs 16 mins
97 8 25	6:49AM	8: 3PM CDT	13 hrs 14 mins
97 8 26	6:50AM	8: 1PM CDT	13 hrs 12 mins
97 8 27	6:50AM	8: 0PM CDT	13 hrs 10 mins
97 8 28	6:51AM	7:59PM CDT	13 hrs 8 mins
97 8 29	6:52AM	7:57PM CDT	13 hrs 6 mins
97 8 30	6:53AM	7:56PM CDT	13 hrs 3 mins
97 8 31	6:53AM	7:55PM CDT	13 hrs 1 mins

OKLAHOMA



EXPLANATION OF TABLES

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

Station Name:

Station Identification Number: These are usually assigned by the National Climatic Data Center.

Climate Division: See the figure above.

Number of Temperature Observations: These are the actual number of temperature reports recorded at the station during the current month. Missing observations may result in artificially high or low mean monthly temperatures.

Deviation from Normal: The deviation of the observed mean monthly temperature from the monthly station normal. A positive value indicates the month was warmer than normal. A negative value indicates the month was cooler than normal. Normal monthly temperatures may be calculated by subtracting the deviation from the observed temperature.

Maximum Daily Maximum: The maximum daily maximum temperature observed during the current month and year and the day which it occurred.

Minimum Daily Minimum: The minimum daily minimum temperature observed during the current month and year and the day which it occurred.

Heating Degree Days: HDD are calculated each day of the month for which there is a temperature report and the average temperature for the day 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

AUGUST

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	
93.5 70.5 0.7 0 17 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	93.0 70.3 0.3 0 17 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	93.9 70.7 0.6 0 17 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	92.5 70.6 0.9 0 17 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	94.0 70.8 0.4 0 17 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	94.8 71.5 1.1 0 18 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	93.8 70.7 1.3 0 17 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	
Normal 8 Actual	Normal 9 Actual	Normal 10 Actual	Normal 11 Actual	Normal 12 Actual	Normal 13 Actual	Normal 14 Actual	
93.1 70.1 1.0 0 17 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	93.0 69.5 1.5 0 16 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	92.6 70.1 0.9 0 16 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	92.5 69.7 0.2 0 16 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	92.8 69.2 0.4 0 16 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	93.0 70.2 1.1 0 17 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	92.4 70.8 1.4 0 17 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	
Normal 15 Actual	Normal 16 Actual	Normal 17 Actual	Normal 18 Actual	Normal 19 Actual	Normal 20 Actual	Normal 21 Actual	
92.6 70.7 2.0 0 17 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	93.6 72.2 0.6 0 17 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	93.1 70.9 0.3 0 17 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	92.3 69.9 1.3 0 16 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	90.9 69.2 1.0 0 15 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	91.7 69.0 0.8 0 15 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	92.6 69.0 1.0 0 16 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	
Normal 22 Actual	Normal 23 Actual	Normal 24 Actual	Normal 25 Actual	Normal 26 Actual	Normal 27 Actual	Normal 28 Actual	
91.7 69.1 0.9 0 15 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	91.4 68.4 0.6 0 15 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	92.1 68.5 0.6 0 15 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	91.9 68.6 0.2 0 15 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	92.3 68.2 0.6 0 15 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	91.7 68.9 0.7 0 15 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	90.4 68.1 0.7 0 14 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	
Normal 29 Actual	Normal 30 Actual	Normal 31 Actual	AUGUST AVERAGES				
89.0 67.0 0 0 14 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	91.5 68.3 0.4 0 15 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	89.6 67.7 1.6 0 14 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	TEMPERATURE : 81.0°F				
				PRECIPITATION : 2.51"			
				HEATING DEGREE DAYS : 0			
				COOLING DEGREE DAYS : 495			

TULSA CLIMATE CALENDAR

AUGUST

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

Normal 93.0 72.0 0.07 0 18 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 110-1923 75-1960 55-1925 66-1980 .62-1968	Normal 94.0 72.0 .03 0 18 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 108-1980 62-1971 57-1971 64-1980 .62-1978	Normal 94.0 71.0 .02 0 18 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 110-1923 82-1971 57-1971 61-1967 .60-1981	Normal 93.0 71.0 .08 0 17 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 72-1978 69-1986 59-1982 60-1980 2.95-1974	Normal 93.0 71.0 .11 0 18 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 106-1989 74-1967 69-1920 64-1966 1.56-1970	Normal 93.0 71.0 .07 0 17 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 109-1918 81-1981 64-1949 62-1964 .74-1960	Normal 92.0 70.0 .06 0 16 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 108-1984 76-1977 66-1962 60-1990 .73-1987	Normal 92.0 71.0 .10 0 18 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 106-1986 06-1960 55-1987 76-1983 5.57-1989	Normal 92.0 69.0 .08 0 16 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 105-1913 70-1987 50-1910 80-1983 1.00-1974	Normal 91.0 69.0 .08 0 15 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 104-1988 70-1988 63-1987 82-1980 2.12-1984
Normal 91.0 69.0 .10 0 15 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 107-1984 70-1974 51-1981 75-1984 2.90-1965	Normal 91.0 69.0 .05 0 15 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 108-1986 69-1966 61-1920 79-1983 1.11-1977	Normal 92.0 69.0 .07 0 16 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 107-1926 72-1966 63-1920 61-1983 2.18-1972	Normal 92.0 69.0 .02 0 16 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 105-1978 83-1985 67-1986 60-1983 .69-1975	Normal 92.0 69.0 .07 0 16 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 104-1978 76-1984 62-1916 81-1978 1.91-1987	Normal 92.0 69.0 .08 0 16 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 105-1913 70-1987 50-1910 80-1983 1.00-1974	Normal 91.0 68.0 .19 0 15 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 104-1988 70-1988 63-1987 82-1980 2.12-1984						
Normal 91.0 69.0 .10 0 15 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 107-1984 70-1974 51-1981 75-1984 2.90-1965	Normal 91.0 69.0 .05 0 15 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 108-1986 69-1966 61-1920 79-1983 1.11-1977	Normal 92.0 69.0 .07 0 16 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 107-1926 72-1966 63-1920 61-1983 2.18-1972	Normal 92.0 69.0 .02 0 16 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 105-1978 83-1985 67-1986 60-1983 .69-1975	Normal 92.0 69.0 .07 0 16 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 104-1978 76-1984 62-1916 81-1978 1.91-1987	Normal 92.0 69.0 .08 0 16 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 105-1913 70-1987 50-1910 80-1983 1.00-1974	Normal 91.0 68.0 .19 0 15 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 104-1988 70-1988 63-1987 82-1980 2.12-1984						

AUGUST AVERAGES

TEMPERATURE : 81.5°F

PRECIPITATION : 2.94"

HEATING DEGREE DAYS : 0

COOLING DEGREE DAYS : 618

Oklahoma Climatological Survey
University of Oklahoma
100 East Boyd, Suite 1210
Norman, OK 73019-0628

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