

OKLAHOMA MONTHLY SUMMARY SEPTEMBER 1997

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MONTHLY SUMMARY FOR SEPTEMBER

Despite heavy rains in the northwestern two-thirds of Oklahoma late in the month, the September statewide-averaged precipitation (3.19 inches) fell short of normal by 0.75 inch. Stubborn dry conditions persisted over southeastern Oklahoma where typical September precipitation patterns failed to materialize. Despite continuing deficits in south central and southeastern Oklahoma, the state's year-to-date total precipitation of 30.14 inches is 3.05 inches greater than normal, 27th greatest since 1892.

September temperatures averaged 74.3 degrees across the state, 1.3 degrees above normal and the 41st warmest September out of 106 years. The year, with a year-to-date average temperature of 62.8 degrees, ranks as the 26th warmest on record, 0.8 degree warmer than normal.

Typical late summer weather during the first week of the month was interrupted by a weak cold front that moved through the state on the 3rd and 4th producing widely scattered thunderstorms and lowering daytime temperatures by 10 to 15 degrees. A somewhat stronger frontal system on the 8th and 9th produced thunderstorms in the north and west. A pair of small tornadoes were reported near Fairfax and Shidler in Osage County on the 8th. Large hail was reported in Roger Mills, Beckham, Greer, Woods, and Logan counties. Purcell (McClain) recorded 2.05 inches of rain and minor flooding was reported around Elk City (Beckham) and Hobart (Kiowa).

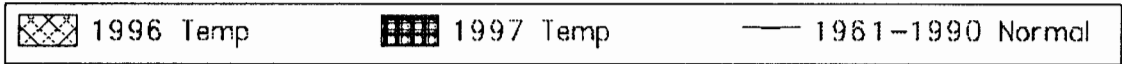
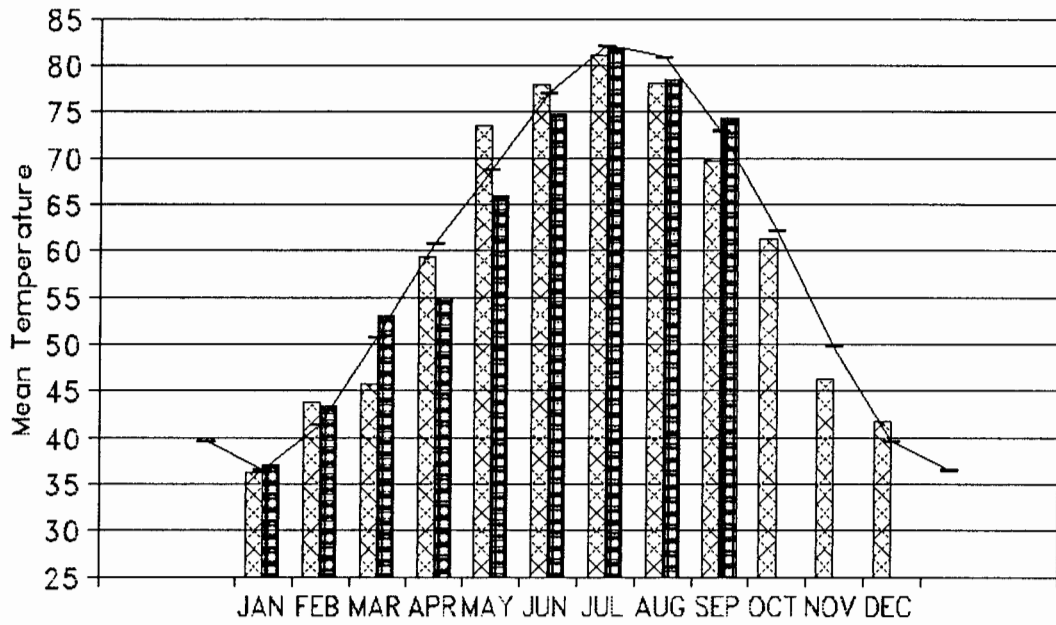
Thunderstorms on the 12th, 13th, and 14th produced heavy rains and strong winds across much of northern and western Oklahoma and the needed rainfall penetrated into the southeast on the 15th. The Fairview Mesonet station recorded a peak wind of 88 miles per hour on the 13th. Clinton (Custer) reported 3.13 inches of rain and Hanna (McIntosh) noted 2.09 inches on the 14th. Carnasaw Tower (McCurtain) with 1.82 inches, Cloudy Mesonet (Pushmataha) with 1.79 inches and Spiro (LeFlore) with 1.78 inches, all on the 15th, were the southeastern Oklahoma reporting locations with the largest precipitation amounts. The 15th through the 19th were dominated by summer's last really hot weather. Temperatures at Buffalo Mesonet (Harper) and Gate (Beaver) reached 107 and 106 degrees, respectively, on the afternoon of the 18th.

Summer ended abruptly with the passage through the state of a strong cold front on the 19th and 20th. A significant precipitation-producing system moved across the state on the 22nd and 23rd, depositing large quantities of precipitation, including 8.70 inches at Cherokee (Alfalfa), 8.25 inches at Headrick (Jackson), 7.69 inches at the Woodward County Mesonet site northwest of Seiling (Dewey), an even 7 inches at Hammon (Roger Mills), 6.90 inches at Cedardale (Woodward), 6.75 inches at Tipton Mesonet (Tillman), 6.40 inches at Retrop (Washita), 6.21 inches at Snider (Kiowa), and 6.20 inches at Billings (Noble). Localized flooding was reported in Cherokee, Tipton, and Hobart. Additional flooding occurred along the Salt Fork of the Arkansas near Medford (Grant) and Tonkawa (Kay) and the Chikaskia River near Blackwell (Kay). Mild, dry weather followed during the first week of autumn, gradually warming toward the end of the month.

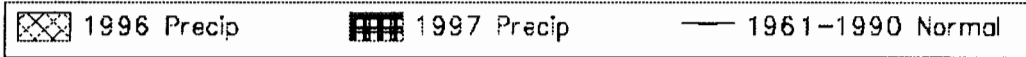
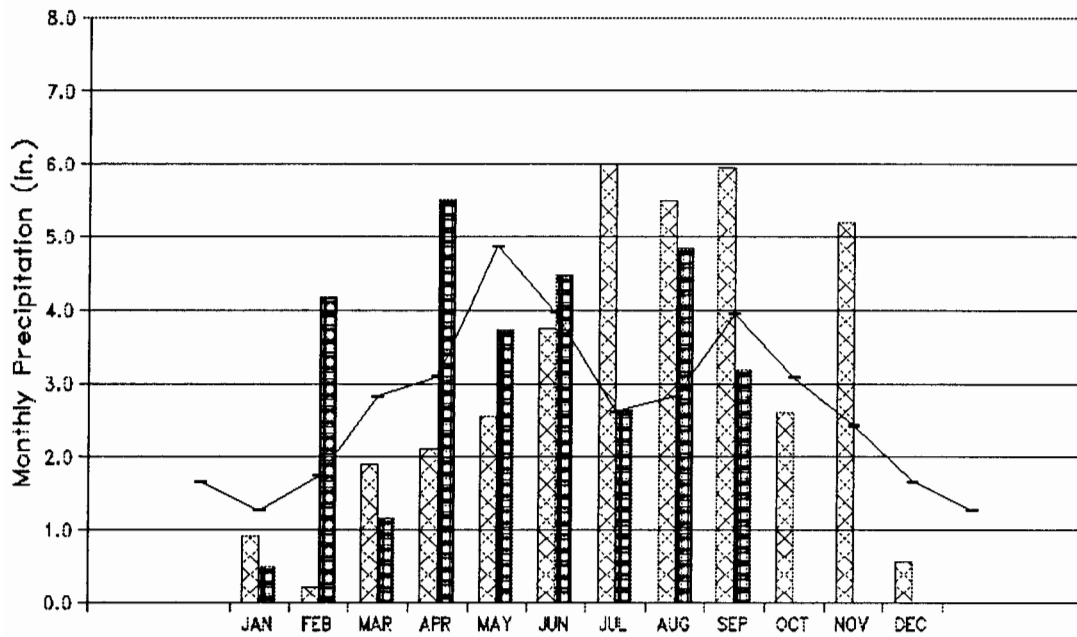
Howard L. Johnson

Note: In the August 1997 summary article, I erroneously placed Elk City in Custer County. As we all know, Elk City is in Beckham County and, so far as I know, has been since statehood. I apologize for the error. -HLJ-

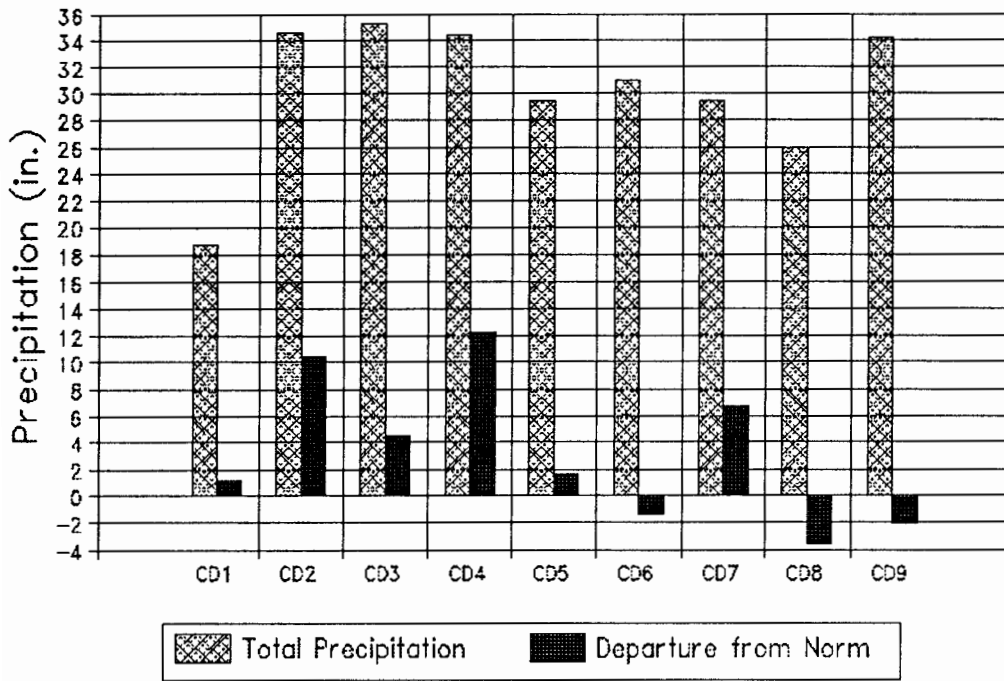
1996 and 1997 STATEWIDE TEMPERATURES Monthly Averages



1996 and 1997 STATEWIDE PRECIPITATION Monthly Totals

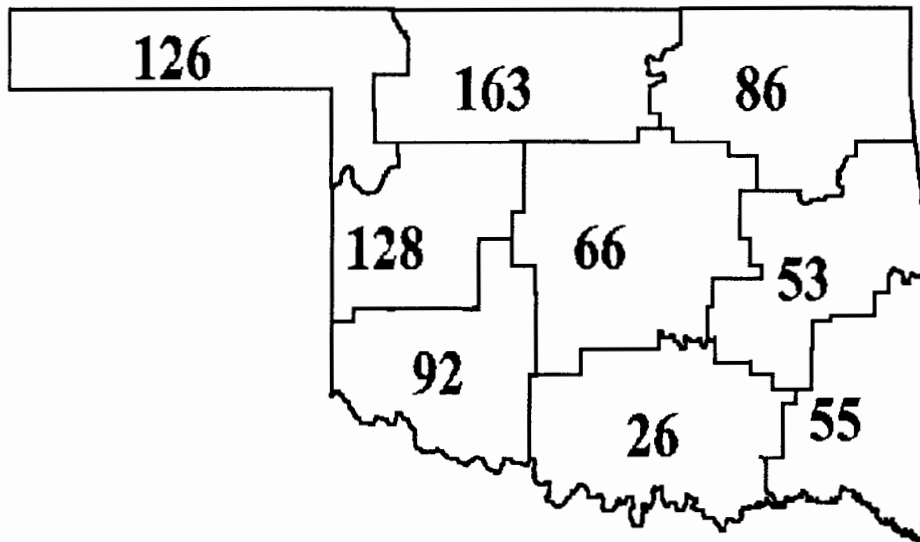


CD Averaged Precipitation January through September 1997



CD PERCENT OF NORMAL PRECIPITATION

SEPTEMBER 1997



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

CD	MAX TEMP	DATE	LOCATION	MIN TEMP	DATE	LOCATION	24-HOUR PRECIP	DATE	LOCATION	MONTHLY PRECIP	LOCATION
1	106	19	GATE	43	20	BOISE CITY	2.25	23	ARNETT	4.67	ARNETT
				43	25	TURPIN	2.25	23	FARGO		
2	102	19	PONCA CITY	43	29	FREEDOM	6.53	23	CEDARDALE	10.09	CHEROKEE
				43	30	FREEDOM					
3	98	19	RALSTON	36	24	CLEVELAND 2	4.77	23	BURBANK	7.62	CHELSEA
4	101	2	OKEENE	46	29	TALOGA	6.56	23	HAMMON	7.54	HAMMON
5	101	17	CHICKASHA	46	26	NORMAN NWS	3.72	23	CHANDLER	4.80	CHANDLER
	101	2	EL RENO	46	29	NORMAN NWS					
	101	19	HENNESSEY								
6	98	1	HANNA	41	29	MCCURTAIN	2.20	24	SCRAPER	3.99	HASKELL
7	104	17	CHATTANOOGA	47	29	ALTUS DAM	8.25	23	HEADRICK	9.38	HEADRICK
	104	18	CHATTANOOGA	47	30	ALTUS DAM					
				47	29	ANADARKO					
8	103	17	MARLOW	46	26	CHICKASAW	1.65	4	GRADY	2.58	KETCHUM RAN
	103	17	WAURIKA								
9	100	1	IDABEL	41	12	PAGE	1.85	24	VALLIANT	4.86	CARNASAW

TABLE OF 1996/1997 COMPARISONS

Station	SEPTEMBER Temperature (°F)		SEPTEMBER Precipitation (in.)	
	1996	1997	1996	1997
Arnett	67.2	71.1	4.52	4.67
Mutual	69.2	72.4	2.70	4.81
Tulsa	70.5	73.9	4.94	3.06
Elk City	71.3	73.2	5.63	4.10
Oklahoma City	70.9	75.3	6.05	1.37
McAlester	72.2	74.3	5.44	0.30
Altus Irr Station	73.0	75.8	6.23	6.13
Ardmore	74.1	****	4.01	****
Idabel	72.1	75.9	6.29	2.48

EXTREMES

VARIABLE	STATION	DIVISION	OBSERVATION	DATE
Minimum temperature (°F)	Cleveland	3	36	24
Maximum temperature (°F)	Gate	1	106	19
Maximum 24-hour precipitation	Headrick	7	8.25"	23

SEPTEMBER 1997 SUMMARY FOR PANHANDLE DIVISION (CD1)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV		DAY	MIN TEMP	DAY	HEAT		DEV		COOL		DEV		TOT PPT	NUM OBS	DEV		DAY
					FROM NORM	MAX TEMP				DEG DAY	FROM NORM	DEG DAY	FROM NORM	DEG DAY	FROM NORM	MAX 24-HR						
ARNETT	332	1	71.1	30	1.1	97	19	48	26	45	20	226	51	4.670	30	2.14	2.25	23				
BEAVER	593	1	71.6	30	1.9	103	19	44	26	37	6	234	62	2.520	30	0.70	1.03	20				
BOISE CITY	908	1	71.4	30	3.6	98	18	43	20	18	-14	209	93	1.563	30	-0.27	0.86	5				
FARGO	3070	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.214	30	1.94	2.25	23				
GAGE	3407	1	73.2	28	*****	101	18	45	29	23	*****	253	*****	3.182	28	*****	2.05	22				
GATE	3489	1	72.6	30	1.4	106	19	48	25	32	15	260	57	2.922	30	0.83	1.14	23				
GOODWELL	3628	1	72.1	30	4	103	19	44	25	36	-3	248	116	1.110	30	-0.57	0.48	21				
KENTON	4766	1	70.4	28	*****	97	18	44	25	34	*****	185	*****	1.550	30	-0.30	0.51	7				
LAVERNE	5045	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.360	30	1.34	1.68	23				
RANGE	7412	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.935	30	*****	0.64	20				
REGNIER	7534	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.040	30	-0.66	0.65	20				
TURPIN	9017	1	70.8	27	*****	101	19	43	25	41	*****	198	*****	1.110	27	*****	0.42	23				

SEPTEMBER 1997 SUMMARY FOR NORTH CENTRAL DIVISION (CD2)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV		DAY	MIN TEMP	DAY	HEAT		DEV		COOL		DEV		TOT PPT	NUM OBS	DEV		DAY
					FROM NORM	MAX TEMP				DEG DAY	FROM NORM	DEG DAY	FROM NORM	DEG DAY	FROM NORM	MAX 24-HR						
VANCE AFB	302	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.942	29	*****	1.55	23				
BILLINGS	755	2	73.6	30	1.2	99	20	52	30	11	-9	268	26	7.332	30	2.79	3.90	23				
BLACKWELL 2E	818	2	73.0	30	0.2	98	19	50	30	12	-6	251	0	5.642	30	1.56	4.35	23				
BRAMAN	1075	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.272	30	*****	4.74	23				
CEDARDALE	1620	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	8.515	30	*****	6.53	23				
CHEROKEE	1724	2	75.7	30	1.8	100	18	51	20	6	-6	325	50	10.090	30	7.03	5.06	23				
ENID	2912	2	76.6	30	3.2	99	19	54	29	1	-13	349	84	4.040	30	0.56	2.81	23				
FT SUPPLY	3304	2	71.7	29	1.3	100	19	48	26	39	17	234	50	3.872	30	1.56	2.04	23				
FREEDOM	3358	2	71.2	30	-1.5	100	19	43	30	36	22	221	-25	5.650	30	3.06	2.47	23				
GREAT SALT P	3740	2	73.7	30	1.6	100	19	52	21	15	-2	277	47	5.890	30	2.56	4.00	23				
HARDY	3909	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.880	30	*****	3.47	23				
JEFFERSON	4573	2	74.9	30	1.6	101	2	48	29	0	-11	299	39	5.710	30	2.02	4.35	22				
LAMONT	5013	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.380	30	*****	4.80	23				
MEDFORD	5768	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.963	30	*****	4.21	22				
MORRISON	6065	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.460	30	*****	2.10	23				
MUTUAL	6139	2	72.4	30	1.2	101	19	49	26	35	16	256	51	4.810	30	2.16	3.21	23				
NEWKIRK	6278	2	72.7	30	0	97	20	52	20	14	0	244	-1	3.921	30	-0.35	2.73	23				
ORIENTA	6751	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.440	30	2.38	4.50	23				
PERRY	7012	2	75.5	28	*****	101	3	54	30	5	*****	299	*****	3.170	28	*****	1.77	23				
PONCA CITY	7201	2	76.3	26	*****	102	19	54	26	1	*****	294	*****	4.082	29	*****	2.21	23				
WAYNOKA	9404	2	72.9	28	*****	101	2	48	29	11	*****	232	*****	4.030	28	*****	2.40	22				

SEPTEMBER 1997 SUMMARY FOR NORTHEAST DIVISION (CD3)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV		DAY	MIN TEMP	DAY	HEAT DEG		DEV		TOT PPT	NUM OBS	DEV		DAY
					FROM NORM	MAX TEMP				DAY	NORM	DAY	FROM NORM			MAX 24-HR		
BARNSDALL	535	3	72.7	30	-0.1	94	19	47	29	4	-20	234	-24	3.342	30	-2.27	2.73	23
BARTLESVILLE	548	3	74.0	30	1.2	97	2	49	11	4	-13	274	24	4.213	30	-0.36	1.65	24
BIXBY	782	3	73.4	28	****	94	3	48	30	6	*****	241	*****	5.720	29	*****	1.90	23
BURBANK	1256	3	****	0	****	****	0	****	0	*****	*****	*****	*****	5.222	30	0.56	4.77	23
CHELSEA	1717	3	****	0	****	****	0	****	0	*****	*****	*****	*****	7.620	30	*****	1.24	26
CLAREMORE	1828	3	71.7	30	-0.3	92	20	47	30	2	-23	202	-32	3.930	30	-0.52	1.84	24
CLEVELAND 2	1902	3	71.5	29	****	93	19	36	24	23	*****	212	*****	3.511	29	****	2.48	23
FORAKER	3250	3	****	0	****	****	0	****	0	*****	*****	*****	*****	4.390	30	-0.45	2.00	23
HOLLOW	4258	3	****	0	****	****	0	****	0	*****	*****	*****	*****	2.843	30	-2.19	1.31	24
HOMINY	4289	3	****	0	****	****	0	****	0	*****	*****	*****	*****	3.662	30	-1.46	2.08	23
KANSAS	4672	3	71.1	30	-0.5	91	1	50	26	10	-11	193	-27	3.812	30	-1.63	1.65	23
LENAPAH	5118	3	****	0	****	****	0	****	0	*****	*****	*****	*****	3.850	30	****	1.40	24
MANNFORD	5522	3	73.7	30	1.1	96	19	50	29	4	-21	265	12	4.380	30	-0.18	1.72	1
MARAMEC	5540	3	****	0	****	****	0	****	0	*****	*****	*****	*****	3.760	30	-0.93	2.51	23
MIAMI	5855	3	69.9	30	-1.1	90	2	49	11	10	-21	157	-55	4.211	30	-0.86	1.56	24
PAWHUSKA	6935	3	73.8	30	1.5	95	16	51	29	4	-18	267	27	3.821	30	-1.11	2.31	23
PAWNEE	6940	3	****	0	****	****	0	****	0	*****	*****	*****	*****	4.121	30	-0.92	2.84	23
PRYOR	7309	3	71.3	28	****	93	20	49	30	8	*****	184	*****	4.322	28	****	2.40	24
RALSTON	7390	3	73.1	30	0.3	98	19	39	24	14	-6	256	3	4.551	30	-0.12	3.07	23
SKIATOOK	8258	3	****	0	****	****	0	****	0	*****	*****	*****	*****	4.920	30	0.07	2.12	23
SPAVINAW	8380	3	74.0	30	0.3	93	2	54	29	3	-9	274	1	4.553	30	-0.23	1.78	14
TULSA	8992	3	73.9	30	0.6	96	16	53	29	4	-17	270	1	3.065	30	-1.63	2.25	23
UPPER SPAV	9101	3	72.6	28	****	95	2	48	29	5	*****	219	*****	4.450	30	****	1.87	24
VINITA	9203	3	71.7	23	****	91	16	47	11	5	*****	158	*****	4.180	26	****	1.34	24
WAGONER	9247	3	73.9	30	0.5	93	16	52	11	3	-12	269	3	2.790	30	-1.77	1.28	24
WANN	9298	3	****	0	****	****	0	****	0	*****	*****	*****	*****	4.201	30	****	1.52	23
WYNONA	9792	3	****	0	****	****	0	****	0	*****	*****	*****	*****	4.516	30	****	2.33	23

SEPTEMBER 1997 SUMMARY FOR WEST CENTRAL DIVISION (CD4)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV		DAY	MIN TEMP	DAY	HEAT DEG		DEV		TOT PPT	NUM OBS	DEV		DAY
					FROM NORM	MAX TEMP				DAY	NORM	DAY	FROM NORM			MAX 24-HR		
CANTON DAM	1445	4	73.5	27	****	98	19	52	29	10	*****	241	*****	4.180	28	****	3.12	23
CLINTON	1909	4	75.8	30	1.9	97	18	49	29	7	-7	331	51	5.932	30	2.20	3.13	14
COLONY	2039	4	****	0	****	****	0	****	0	*****	*****	*****	*****	2.602	30	****	1.35	9
CORDELL	2125	4	****	0	****	****	0	****	0	*****	*****	*****	*****	3.072	30	-0.54	2.65	23
ELK CITY	2849	4	73.2	30	1	98	19	51	26	12	-1	257	28	4.101	30	0.82	3.24	23
ERICK	2944	4	73.7	30	1.3	100	19	49	26	16	3	276	41	3.410	30	0.19	2.73	23
GEARY	3497	4	74.9	30	2.3	97	2	55	29	4	-13	302	55	2.650	30	-1.15	2.00	23
HAMMON	3871	4	72.1	30	0.8	98	19	47	30	26	2	240	27	7.540	30	4.45	6.56	23
MACKIE	5463	4	****	0	****	****	0	****	0	*****	*****	*****	*****	4.200	30	****	3.30	23
MORAVIA	6035	4	****	0	****	****	0	****	0	*****	*****	*****	*****	2.842	30	-0.57	2.36	23
OKEENE	6629	4	75.3	30	1.6	101	2	54	26	7	-6	316	42	5.171	30	1.48	2.65	23
RETROP	7565	4	****	0	****	****	0	****	0	*****	*****	*****	*****	6.400	30	****	6.40	23
REYDON	7579	4	72.3	30	1.5	98	20	48	26	29	11	249	57	2.440	30	-0.59	1.67	23
SAYRE	7952	4	****	0	****	****	0	****	0	*****	*****	*****	*****	3.991	30	0.95	3.08	23
SWEETWATER	8652	4	****	0	****	****	0	****	0	*****	*****	*****	*****	3.821	30	****	2.35	23
TALOGA	8708	4	74.5	30	2.4	100	18	46	29	11	-4	297	70	5.210	30	2.24	3.95	23
THOMAS	8815	4	****	0	****	****	0	****	0	*****	*****	*****	*****	4.670	30	****	2.04	23
VICI	9172	4	****	0	****	****	0	****	0	*****	*****	*****	*****	4.321	30	1.68	2.40	22
WATONGA	9364	4	75.2	30	2.5	98	9	52	29	7	-10	314	67	5.102	30	1.73	2.82	23
WEATHERFORD	9422	4	75.0	30	2.9	100	2	54	25	9	-10	308	77	3.110	30	-0.63	1.65	22

SEPTEMBER 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	*****	*****	*****	*****	1.790	30	*****	1.48	23
BLANCHARD	830	5	76.8	29	2.8	98	4	52	28	6	-6	348	67	4.201	30	0.04	1.90	23
BRISTOW	1144	5	74.8	30	1.8	97	20	47	29	3	-17	297	38	3.842	30	-0.80	2.12	23
CHANDLER	1684	5	74.8	28	****	98	2	50	26	5	*****	280	*****	4.801	28	*****	3.72	23
CHICKASHA	1750	5	77.4	30	3.8	101	17	49	29	0	-12	371	101	1.940	30	-1.86	1.65	23
COX CITY	2196	5	****	0	****	****	0	****	0	*****	*****	*****	*****	1.960	30	****	1.83	23
CRESCENT	2242	5	****	0	****	****	0	****	0	*****	*****	*****	*****	1.570	30	****	1.14	23
CUSHING	2318	5	74.2	30	1.7	97	20	53	27	12	-3	288	48	3.740	30	-0.37	2.60	23
EDMOND	2788	5	****	0	****	****	0	****	0	*****	*****	*****	*****	2.690	28	****	2.30	22
EL RENO	2818	5	****	0	****	****	0	****	0	*****	*****	*****	*****	1.881	30	-2.25	1.48	23
GUTHRIE	3821	5	74.8	27	****	100	19	48	29	8	*****	272	*****	1.853	29	*****	1.85	23
HENNESSEY	4055	5	76.1	30	2.9	101	19	52	29	3	-10	336	78	2.441	30	-1.62	1.46	23
KONAWA	4915	5	****	0	****	****	0	****	0	*****	*****	*****	*****	1.270	30	-3.17	0.67	22
MARSHALL	5589	5	****	0	****	****	0	****	0	*****	*****	*****	*****	3.700	30	-0.13	1.66	23
MEEKER	5779	5	74.8	30	1.6	98	2	49	29	4	-10	298	38	4.760	30	0.47	3.30	22
MULHALL	6110	5	****	0	****	****	0	****	0	*****	*****	*****	*****	2.820	30	****	1.23	23
NORMAN NWS	6386	5	73.9	30	-0.1	100	2	46	29	6	-5	273	-8	3.531	30	-0.56	2.41	23
OILTON	6616	5	****	0	****	****	0	****	0	*****	*****	*****	*****	2.255	30	****	1.80	22
OKEMAH	6638	5	78.2	30	4.9	100	2	56	29	0	-15	395	131	1.571	30	-2.69	0.60	23
OKLAHOMA CTY	6661	5	75.3	30	2.3	98	18	50	29	2	-13	311	56	1.375	30	-2.46	0.93	23
PERKINS	7003	5	****	0	****	****	0	****	0	*****	*****	*****	*****	3.670	30	-0.73	2.68	23
PIEDMONT	7068	5	****	0	****	****	0	****	0	*****	*****	*****	*****	3.370	30	****	1.44	13
PRAGUE	7264	5	****	0	****	****	0	****	0	*****	*****	*****	*****	3.063	30	-1.42	2.08	23
PURCELL	7327	5	74.4	30	0.2	99	18	47	30	13	-1	295	6	4.750	30	0.39	2.05	9
SEMINOLE	8042	5	74.1	30	-0.7	98	3	48	29	9	0	282	-22	2.150	30	-2.24	0.93	22
SHAWNEE	8110	5	****	0	****	****	0	****	0	*****	*****	*****	*****	3.380	30	-0.84	2.05	23
STELLA	8479	5	****	0	****	****	0	****	0	*****	*****	*****	*****	3.250	30	****	2.86	23
STILLWATER	8501	5	74.3	30	2.2	98	3	49	30	9	-9	286	56	4.411	30	0.12	2.79	23
STROUD	8563	5	****	0	****	****	0	****	0	*****	*****	*****	*****	3.203	30	****	2.54	23
TECUMSEH	8751	5	****	0	****	****	0	****	0	*****	*****	*****	*****	2.100	30	****	2.06	24
TROUSDALE	8960	5	****	0	****	****	0	****	0	*****	*****	*****	*****	2.600	30	****	1.64	23
UNION CITY	9086	5	****	0	****	****	0	****	0	*****	*****	*****	*****	1.390	30	-2.84	1.17	23
WELTY	9479	5	****	0	****	****	0	****	0	*****	*****	*****	*****	2.511	30	****	1.30	23
WEWOKA	9575	5	****	0	****	****	0	****	0	*****	*****	*****	*****	2.200	30	-2.12	1.01	14

SEPTEMBER 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	*****	*****	*****	*****	1.022	30	****	0.51	24
BEGGS	631	6	****	0	****	****	0	****	0	*****	*****	*****	*****	3.260	30	****	2.09	24
CALVIN	1391	6	****	0	****	****	0	****	0	*****	*****	*****	*****	0.900	30	-3.54	0.60	12
CHECOTAH	1711	6	****	0	****	****	0	****	0	*****	*****	*****	*****	1.910	30	-2.97	0.96	24
CLAYTON	1858	6	****	0	****	****	0	****	0	*****	*****	*****	*****	2.200	30	****	1.62	15
DEWAR	2485	6	****	0	****	****	0	****	0	*****	*****	*****	*****	2.162	30	-2.38	0.53	15
DUSTIN	2690	6	****	0	****	****	0	****	0	*****	*****	*****	*****	0.930	30	****	0.35	23
EUFALA	2993	6	76.0	30	1.3	96	19	56	29	0	-10	329	28	2.711	30	-1.86	1.64	13
HANNA	3884	6	74.4	30	0.8	98	1	46	29	7	-6	288	18	3.242	30	-1.34	2.09	14
HASKELL	3956	6	****	0	****	****	0	****	0	*****	*****	*****	*****	3.990	30	-0.40	1.70	14
HOLDENVILLE	4235	6	****	0	****	****	0	****	0	*****	*****	*****	*****	1.250	30	-2.82	0.72	24
LAKE EUFAULA	4975	6	72.1	19	****	93	1	55	29	4	*****	139	*****	0.914	20	****	0.40	24
LYONS	5437	6	****	0	****	****	0	****	0	*****	*****	*****	*****	3.201	30	-1.62	1.39	14
MARBLE CITY	5546	6	****	0	****	****	0	****	0	*****	*****	*****	*****	2.540	30	****	1.30	14
MCALESTER	5664	6	74.3	24	****	97	19	47	29	1	*****	224	*****	0.307	26	****	0.21	3
MCCURTAIN	5693	6	72.1	30	-1.9	95	19	41	29	5	-10	218	-67	3.183	30	-1.58	1.28	8
MUSKOGEE	6130	6	74.4	30	0.9	94	20	49	30	2	-13	285	15	2.361	30	-2.15	1.00	13
OKMULGEE	6670	6	72.3	30	0.4	96	17	44	29	15	-6	235	7	2.771	30	-1.14	0.93	24
OKTAHA	6678	6	****	0	****	****	0	****	0	*****	*****	*****	*****	3.420	30	****	1.33	14
QUINTON	7372	6	****	0	****	****	0	****	0	*****	*****	*****	*****	1.861	30	-2.72	0.73	13
SALLISAW	7862	6	73.1	30	-0.7	94	3	48	29	8	-3	251	-24	2.030	30	-2.48	0.71	24
SCIPIO	7979	6	****	0	****	****	0	****	0	*****	*****	*****	*****	1.190	30	****	0.77	24
SCRAPER	7993	6	****	0	****	****	0	****	0	*****	*****	*****	*****	3.700	30	****	2.20	24
SHORT	8170	6	****	0	****	****	0	****	0	*****	*****	*****	*****	2.290	30	****	0.83	14
STILWELL	8506	6	70.7	30	-1	93	2	48	26	2	-18	172	-50	3.780	30	-0.94	1.20	24
WEBBERS FALL	9445	6	74.0	28	****	96	20	49	12	2	*****	253	*****	1.990	28	****	1.25	14
WESTVILLE	9523	6	****	0	****	****	0	****	0	*****	*****	*****	*****	2.510	30	****	1.55	24
WETUMKA	9571	6	****	0	****	****	0	****	0	*****	*****	*****	*****	2.062	30	-2.52	0.55	24

SEPTEMBER 1997 SUMMARY FOR SOUTHWEST DIVISION (CD7)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV		MIN 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
					FROM NORM	MAX TEMP												
ALTUS	179	7	75.8	30	0.7	102	17	52	29	0	-6	324	15	6.130	30	2.69	5.26	23
ALTUS DAM	184	7	75.2	30	1.2	102	18	47	30	14	6	319	41	4.450	30	1.02	3.54	23
ANADARKO	224	7	75.1	28	*****	98	19	47	29	9	*****	291	*****	2.300	30	-1.41	1.75	23
APACHE	260	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.610	30	-0.14	2.40	23
ALTUS AFB	447	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.032	28	*****	3.52	22
CARNEGIE	1504	7	78.8	19	*****	100	2	56	29	0	*****	263	*****	2.250	29	*****	0.72	20
CHATTANOOGA	1706	7	78.7	30	3.4	104	18	53	29	0	-7	411	95	1.300	30	-2.37	1.09	23
DUNCAN 11 W	2668	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.133	30	*****	0.91	23
FREDERICK	3353	7	78.1	24	*****	102	18	56	29	2	*****	315	*****	3.551	25	*****	2.70	23
HEADRICK	3998	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	9.380	30	*****	8.25	23
HOBART	4204	7	75.7	24	*****	101	17	52	29	0	*****	257	*****	0.003	24	*****	0.00	21
HOLLIS	4249	7	76.3	30	1.8	102	18	52	29	1	-6	341	50	3.590	30	0.46	2.94	23
LAWTON	5063	7	76.8	30	2.8	102	18	51	28	1	-7	354	76	2.360	30	-1.30	1.85	23
LOOKEBA	5329	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.793	30	-1.56	2.20	23
MANGUM	5509	7	76.5	30	1.8	100	18	53	29	0	-6	345	48	3.100	30	-0.28	2.48	23
RANDLETT	7403	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.151	30	*****	1.00	23
ROOSEVELT	7727	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.940	30	-1.39	1.80	23
SNYDER	8299	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.440	30	2.87	6.10	23
VINSON	9212	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.000	30	-0.20	2.53	23
WALTERS	9278	7	77.7	30	2.2	103	18	53	28	0	-9	382	58	1.750	30	-2.50	1.75	23
WICHITA MT	9629	7	76.1	29	3.7	99	19	49	29	8	-5	329	94	4.751	29	*****	4.00	23
WILLOW	9668	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.370	30	*****	2.05	23

SEPTEMBER 1997 SUMMARY FOR SOUTH CENTRAL DIVISION (CD8)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV		MIN 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
					FROM NORM	MAX TEMP												
ADA	17	8	75.3	30	1.5	97	17	48	28	2	-6	310	38	1.372	30	-3.09	0.63	4
ALLEN	147	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.790	30	*****	0.70	14
ATOKA DAM	394	8	77.6	20	*****	101	2	53	11	1	*****	252	*****	0.282	21	*****	0.16	8
BOKCHITO	917	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.750	30	*****	0.50	14
CENTRAHOMA	1648	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.730	30	*****	0.25	24
CHICKASAW	1745	8	75.0	29	1.4	99	18	46	26	10	-5	301	29	1.140	29	*****	0.80	23
COMANCHE	2054	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.120	30	-3.36	0.74	23
DAISY	2354	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.023	30	-4.54	0.28	9
DUNCAN	2660	8	76.7	30	2.5	100	20	51	21	1	-8	351	66	0.841	30	-3.57	0.50	23
DURANT	2678	8	77.1	28	*****	98	18	53	27	2	*****	341	*****	0.250	28	*****	0.09	15
GRADY	3688	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.220	30	*****	1.65	4
HEALDTON	4001	8	76.5	29	1.8	101	18	51	26	5	-3	340	41	1.201	29	*****	1.02	23
HENNEPIN	4052	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.060	30	*****	0.93	23
KETCHUM RAN	4780	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.580	30	*****	1.04	14
KINGSTON	4865	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.312	30	-4.47	0.24	23
LEHIGH	5108	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.253	30	*****	0.70	14
LINDSAY	5216	8	75.3	30	1.7	100	17	50	29	6	-8	315	43	1.920	30	-2.39	1.64	22
LOCO	5247	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.734	30	*****	0.70	23
MADILL	5468	8	77.4	28	*****	100	17	48	25	5	*****	352	*****	0.710	30	-4.11	0.19	30
MARLOW	5581	8	77.3	30	3.6	103	17	48	29	1	-10	369	98	1.420	30	-2.91	0.80	23
MARIETTA	5563	8	78.3	30	2.9	100	17	50	26	4	-4	404	84	0.951	30	-3.24	0.50	22
MCGEE CREEK	5713	8	77.3	30	*****	100	1	53	11	2	*****	369	*****	0.900	30	*****	0.55	15
PONTOTOC	7214	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.450	30	-2.55	0.67	22
WAURIKA	9395	8	79.1	30	3.4	103	17	52	26	0	0	424	98	0.631	30	-3.28	0.48	23
WAURIKA DAM	9399	8	78.7	25	*****	102	18	54	28	0	*****	343	*****	1.440	25	*****	0.62	23

SEPTEMBER 1997 SUMMARY FOR SOUTHEAST DIVISION (CD9)

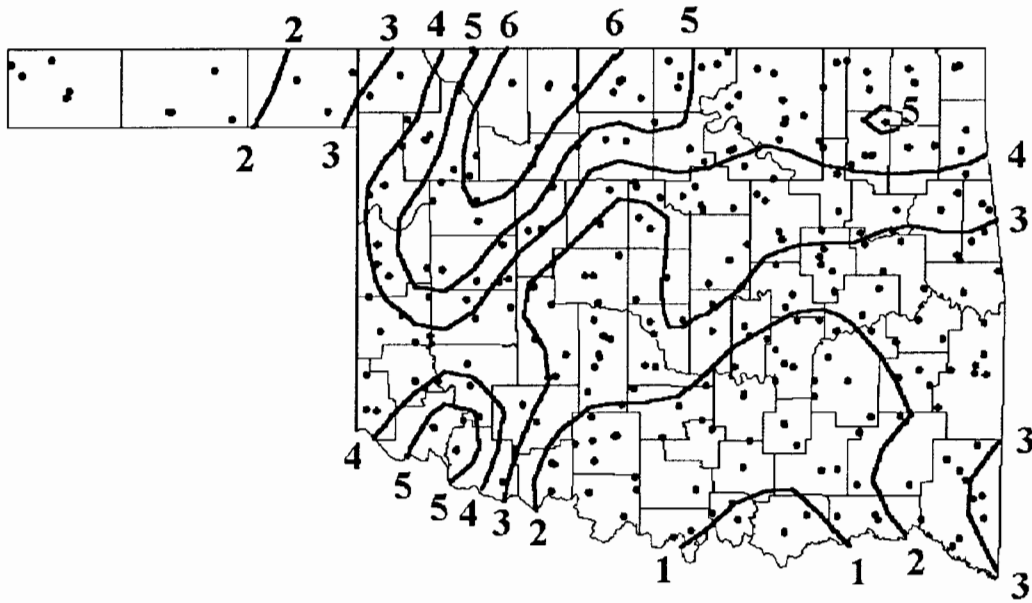
NAME	ID	CD	MEAN TEMP	NUM OBS	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
ANTLERS	256	9	76.7	30	2.6	98	17	51	27	0	-10	351	68	*****	0	*****	*****	0
BATTIEST	567	9	70.6	30	*****	94	3	47	12	7	*****	174	*****	2.450	30	*****	0.95	24
BEAR MT	584	9	76.7	26	*****	99	3	51	8	2	*****	305	*****	4.260	26	*****	1.12	15
BENGAL	670	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.550	30	*****	0.81	14
BOSWELL	980	9	75.9	30	1.4	98	19	52	11	1	-8	329	35	1.200	30	-3.27	0.67	15
BROKEN BOW	1162	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.970	29	*****	1.12	24
BROKEN BOW D	1168	9	74.5	30	0.8	99	2	50	7	1	-8	287	18	2.901	30	-1.81	1.54	23
CARNASAW	1499	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.860	30	0.27	1.82	15
CARTER TWR	1544	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.160	30	-2.63	1.16	23
FANSHAWE	3065	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.930	30	-1.75	0.87	15
HEAVENER	4008	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.730	30	-2.84	0.49	13
HUGO	4384	9	76.4	30	1.2	98	17	53	26	2	-4	345	33	0.810	30	-3.72	0.50	22
IDABEL	4451	9	75.9	30	2	100	1	49	5	2	-6	331	56	2.481	30	-1.71	1.25	24
PAGE	6842	9	72.4	28	*****	92	20	41	12	18	*****	227	*****	2.550	28	*****	0.58	1
POTEAU	7254	9	73.3	30	*****	97	2	47	28	2	*****	250	*****	3.010	30	*****	0.72	13
SMITHVILLE	8285	9	71.0	29	-0.8	96	1	46	30	2	-19	176	-49	2.751	30	-1.82	0.90	15
SPIRO	8416	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.780	30	-0.26	1.78	15
TUSKAHOMA	9023	9	75.2	30	1	98	14	47	30	0	-13	305	16	1.540	30	-3.64	0.44	16
VALLIANT	9118	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.120	30	-1.85	1.85	24
WILBURTON	9634	9	74.6	30	1.7	96	20	45	29	0	-15	288	36	2.200	30	-2.69	0.70	3
WISTER	9724	9	73.2	30	*****	97	4	45	30	2	*****	248	*****	3.410	30	*****	1.35	14

SEPTEMBER 1997 CLIMATE DIVISION SUMMARY

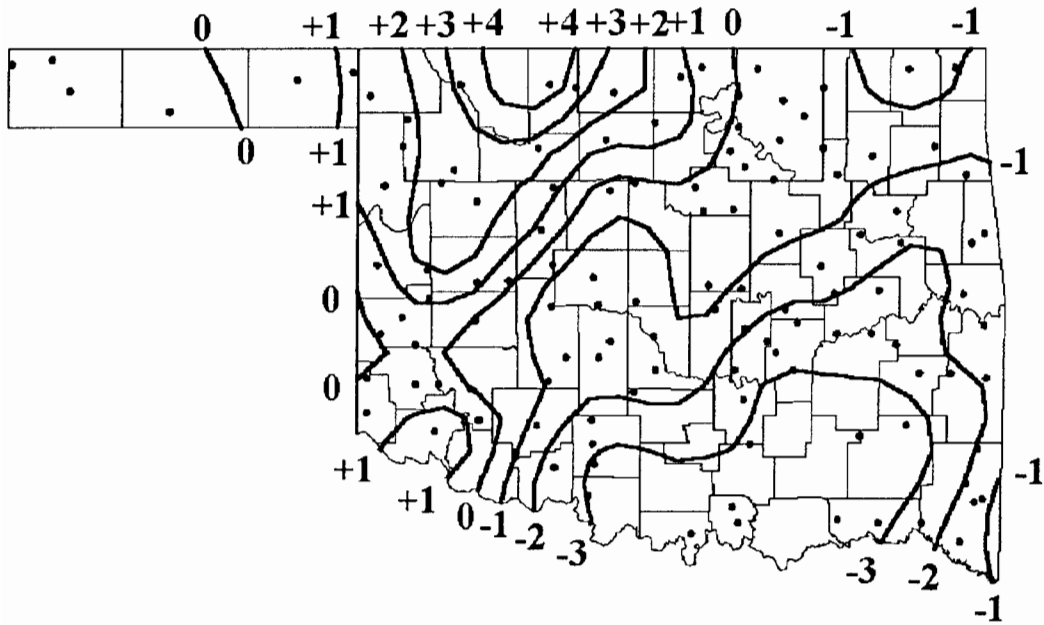
CD	MEAN TEMP	NUM STA	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEG DAYS	DEV FROM NORM	COOL DEG DAYS	DEV FROM NORM	TOT PPT	NUM STA	DEV FROM NORM	MAX 24-HR	DAY
1	71.7	5	2.4	106	19	43	25	33.3	3.2	235.2	76.1	2.49	10	0.51	2.25	23
2	73.5	10	1	102	19	43	30	16.6	0.6	272.3	29.1	5.64	17	2.19	6.53	23
3	72.8	12	0.4	98	19	36	24	6.8	-14.6	239.2	-1.9	4.18	23	-0.68	4.77	23
4	74.2	10	1.7	101	2	46	29	12.5	-2.6	288.8	49.6	4.24	19	0.92	6.56	23
5	75.3	12	1.9	101	19	46	29	5.3	-8.4	314.8	48.9	2.8	31	-1.43	3.72	23
6	73.3	7	-0.1	98	1	41	29	5.4	-9.1	253.7	-11.3	2.42	25	-2.13	2.2	24
7	76.6	8	2.4	104	18	47	29	2.9	-5.7	350.5	63.6	3.34	17	-0.31	8.25	23
8	76.7	9	2.4	103	17	46	26	3.3	-5.9	353.3	62	1.19	20	-3.39	1.65	4
9	74.3	11	0.4	100	1	41	12	1.6	-9.3	280	3.5	2.58	17	-2.09	1.85	24

MESONET MONTHLY SUMMARY FOR SEPTEMBER 1997

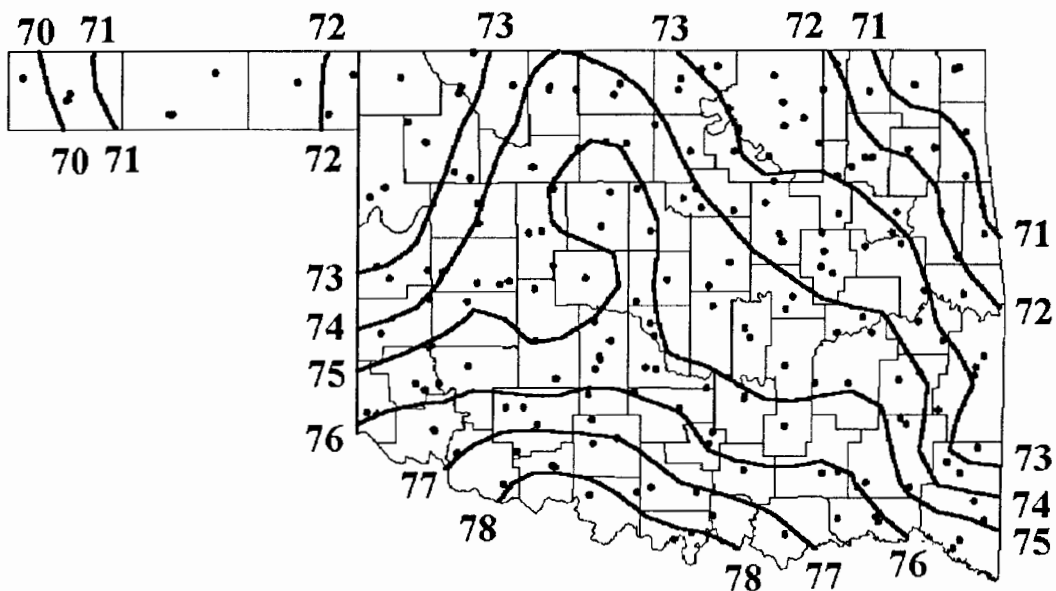
NAME	MEAN TEMP	MAX TEMP	MIN DAY	MIN TEMP	MIN DAY	HDD	CDD	TOT PPT	MAX 24-HR	DAY	NAME	MEAN TEMP	MAX TEMP	MIN DAY	MIN TEMP	MIN DAY	HDD	CDD	TOT PPT	MAX 24-HR	DAY
PANHANDLE																					
Arnett	73.1	100	18	46	29	19	262	4.27	2.48	22	Goodwell	71.1	102	18	45	20	41	224	.98	.31	20
Beaver	71.7	104	18	45	25	40	239	2.24	.82	22	Hooker	71.2	103	18	42	25	41	228	.80	.29	20
Boise City	69.3	98	18	43	20	47	175	.91	.31	5	Kenton	69.1	96	15	44	20	44	167	2.84	1.53	22
Buffalo	72.3	107	18	48	29	22	219	2.69	1.41	22	Slapout	72.1	104	18	47	25	33	245	2.20	.93	22
NORTH CENTRAL																					
Alva	73.9	103	18	51	20	14	282	6.97	3.53	22	May Ranch	72.6	99	18	50	20	22	250	4.13	2.07	22
Blackwell	74.1	99	19	52	29	2	274	4.66	2.86	23	Medford	74.3	100	18	51	29	2	280	3.85	1.58	22
Breckenridge	74.8	102	2	52	29	2	296	3.95	1.70	23	Newkirk	72.6	96	19	53	10	5	232	4.27	2.81	23
Cherokee	74.7	102	2	52	20	7	296	7.87	2.97	22	Red Rock	73.9	100	19	52	11	5	273	4.36	3.69	23
Fairview	74.8	100	2	53	21	6	301	6.77	2.55	22	Seiling	73.9	101	2	51	20	15	282	8.76	7.41	22
Freedom	72.9	101	18	49	25	23	260	5.87	2.68	22	Woodward	72.9	99	18	50	20	23	261	3.32	1.93	22
Lahoma	74.4	100	2	52	29	4	287	4.29	1.83	23											
NORTHEAST																					
Bixby	72.9	95	2	48	29	3	240	3.61	1.95	23	Nowata	70.7	93	16	46	11	8	179	4.70	2.36	23
Burbank	72.8	98	19	49	29	4	236	5.30	4.40	23	Pawnee	73.0	96	2	50	11	5	246	3.97	3.57	23
Catoosa	73.1	94	2	53	10	4	248	4.08	2.72	23	Pryor	71.2	92	2	49	11	7	191	4.68	2.53	23
Claremore	72.1	93	2	49	29	4	216	3.61	2.19	23	Skiatook	72.6	93	2	53	11	6	233	4.19	3.07	23
Copan	72.2	95	16	49	11	5	220	4.31	2.10	23	Tulahassee	73.4	96	2	51	11	2	256	2.63	1.14	23
Foraker	72.2	94	2	50	11	6	221	2.96	2.46	23	Vinita	70.4	92	2	46	11	11	174	4.10	2.00	23
Jay	70.4	91	2	47	11	12	174	5.02	2.14	23	Wynona	72.6	95	16	50	11	5	232	3.83	3.47	23
Miami	70.4	92	2	47	11	10	172	4.70	2.33	23											
WEST CENTRAL																					
Bessie	75.2	99	2	52	25	4	309	2.88	2.43	22	Putnam	73.7	99	2	51	29	12	273	5.77	3.81	22
Butler	74.5	100	18	48	29	5	289	6.58	4.44	22	Retrop	75.2	99	18	52	25	1	306	5.26	5.11	22
Camargo	73.4	100	18	47	29	12	265	5.63	4.90	22	Watonga	74.1	98	2	52	21	12	286	3.90	1.43	22
Cheyenne	73.9	98	18	49	25	10	277	5.48	4.62	22	Weatherford	74.7	99	2	53	20	9	299	3.98	1.79	22
Erick	73.9	99	18	47	29	6	272	1.28	.45	23											
CENTRAL																					
Acme	75.8	100	16	49	29	2	327	2.63	1.68	23	Minco	75.0	99	2	54	26	4	304	1.57	.71	23
Bowlegs	73.9	96	2	47	11	3	269	1.98	1.29	23	Ninnekah	76.0	101	17	49	29	2	333	2.07	1.52	23
Bristow	73.0	97	2	45	29	3	242	3.41	1.87	23	Norman	75.4	99	2	51	11	1	312	2.97	1.70	23
Chandler	73.9	97	2	50	11	5	271	3.32	2.51	23	Oilton	72.3	95	2	47	11	9	228	2.33	1.98	23
Chickasha	75.7	100	2	48	29	2	322	1.99	1.38	23	Okemah	74.1	98	2	46	29	4	276	2.03	1.16	23
El Reno	73.3	97	2	48	11	8	259	1.56	.86	22	Perkins	74.2	99	16	51	29	4	281	3.28	2.16	23
Guthrie	75.6	100	2	51	26	2	321	1.69	.98	23	Shawnee	74.9	98	2	51	29	4	302	2.78	2.14	23
Kingfisher	75.7	101	2	51	11	1	323	2.18	1.28	22	Spencer	74.9	98	2	52	28	5	302	3.51	1.93	23
Marena	74.0	98	2	52	29	4	274	3.83	2.42	23	Stillwater	73.4	97	2	48	29	7	259	4.53	2.86	23
Marshall	75.3	101	19	51	29	2	311	2.81	1.12	22	Washington	75.4	99	2	52	11	2	315	3.28	1.56	23
EAST CENTRAL																					
Calvin	74.2	97	2	46	11	2	278	2.14	.90	13	Preston	73.5	94	2	55	11	4	259	2.74	1.40	23
Cookson	71.5	93	2	45	29	7	202	3.20	1.05	23	Sallisaw	71.7	94	19	42	29	4	179	2.01	.67	23
Eufaula	74.2	96	19	52	11	2	279	1.56	.78	23	Stigler	73.0	94	2	44	29	1	240	2.33	.71	8
Haskell	72.4	95	2	47	29	3	225	2.39	1.01	23	Stuart	74.5	96	16	49	11	2	287	.31	.20	23
Hectorville	73.7	96	2	51	29	3	263	2.85	1.76	23	Tahlequah	71.4	93	1	45	29	9	200	3.25	1.71	23
McAlester	74.7	96	2	46	29	2	291	.67	.30	3	Webbers Falls	73.4	95	2	47	29	0	252	2.45	.82	13
Okmulgee	72.4	96	2	44	29	4	227	3.62	1.04	23	Westville	70.7	92	2	47	26	9	179	2.85	1.15	23
SOUTHWEST																					
Altus	76.0	101	17	53	29	0	329	6.76	4.91	22	Hollis	76.2	101	2	52	25	0	334	2.91	2.40	22
Apache	74.8	98	17	54	21	4	299	1.29		23	Mangum	74.9	100	18	51	29	0	296	4.38	3.25	22
Fort Cobb	74.4	99	2	51	29	2	285	2.22	2.22	22	Medicine Park	76.4	101	17	55	21	3	344	4.04	1.97	22
Grandfield	77.8	105	17	47	12	0	384	2.76	2.37	23	Tipton	77.1	102	17	54	29	0	362	7.40	6.62	22
Hinton	74.5	99	2	53	21	5	289	1.86	1.03	22	Walters	78.2	104	17	52	26	0	394	1.80	1.52	23
Hobart	76.4	101	17	53	29	0	342	4.07	3.84	22											
SOUTH CENTRAL																					
Ada	75.4	99	17	47	29	3	314	1.21	.54	3	Lane	76.2	97	1	50	11	0	335	1.15	.73	3
Ardmore	77.6	100	17	52	26	1	377	2.00	1.08	23	Madill	78.3	100	17	48	26	2	400	1.32	.85	14
Burneyville	78.1	101	17	47	26	3	395	.78	.47	14	Pauls Valley	77.0	101	17	51	11	2	362	1.08	.93	23
Byars	75.5	97	2	52	11	3	319	1.32	.77	23	Ringling	78.1	102	2	51	26	1	394	2.32	1.36	15
Centrahoma	75.2	98	16	46	11	3	307	.53	.31	23	Sulphur	75.3	99	17	46	26	4	313	.73	.50	23
Durant	77.4	102	30	52	26	0	371	.70	.50	15	Tishomingo	75.8	97	1	48	11	2	326	1.61	.58	14
Ketchum Ranch	77.6	102	17	51	26	0	379	1.09	.75	23	Waurika	78.6	102	8	51	26	0	407	.68	.36	23
SOUTHEAST																					
Antlers	75.4	99	17	45	11	0	311	1.74	1.00	3	Idabel	76.1	96	2	50	26	0	333	1.98	1.42	23
Broken Bow	75.3	97	2	49	26	0	310	3.28	2.11	23	Mt Herman	74.3	95	2	49	5	0	279	1.79	.59	23
Clayton	75.4	98	2	48	11	0	312	1.12	.47	3	Talihina	74.4	98	2	44	29	1	283	1.84	.47	13
Cloudy	74.4	94	2	50	6	0	283	4.45	1.79	15	Wilburton	74.1	96	2	47	29	1	274	2.48	.93	3
Hugo	76.8	97	2	53	26	0	355	.92	.79	23	Wister	73.3	95	1	45	29	0	250	2.95	.98	3



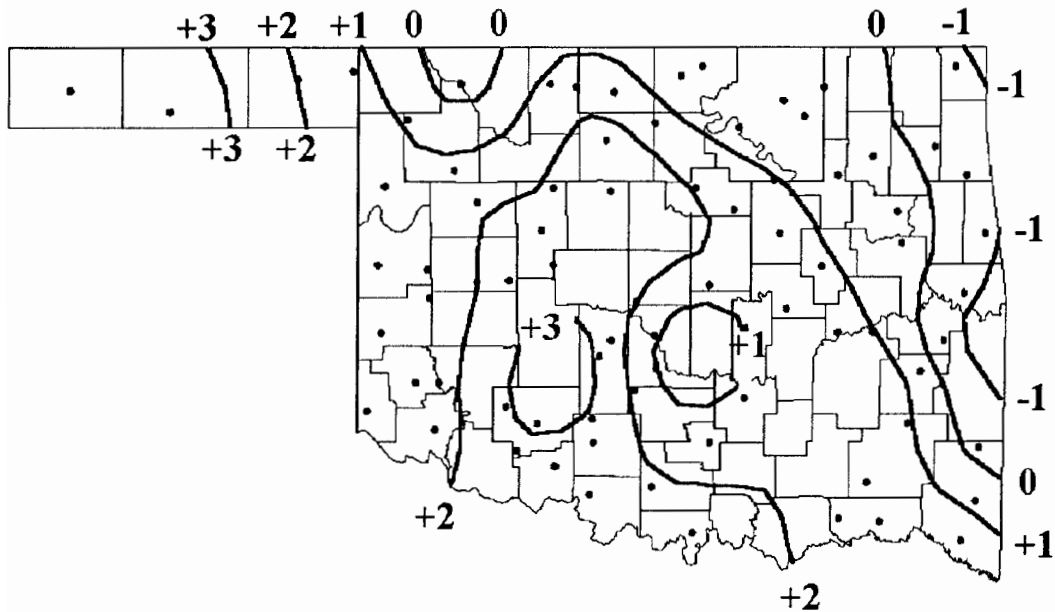
SEPTEMBER 1997 TOTAL PRECIPITATION
(INCHES)



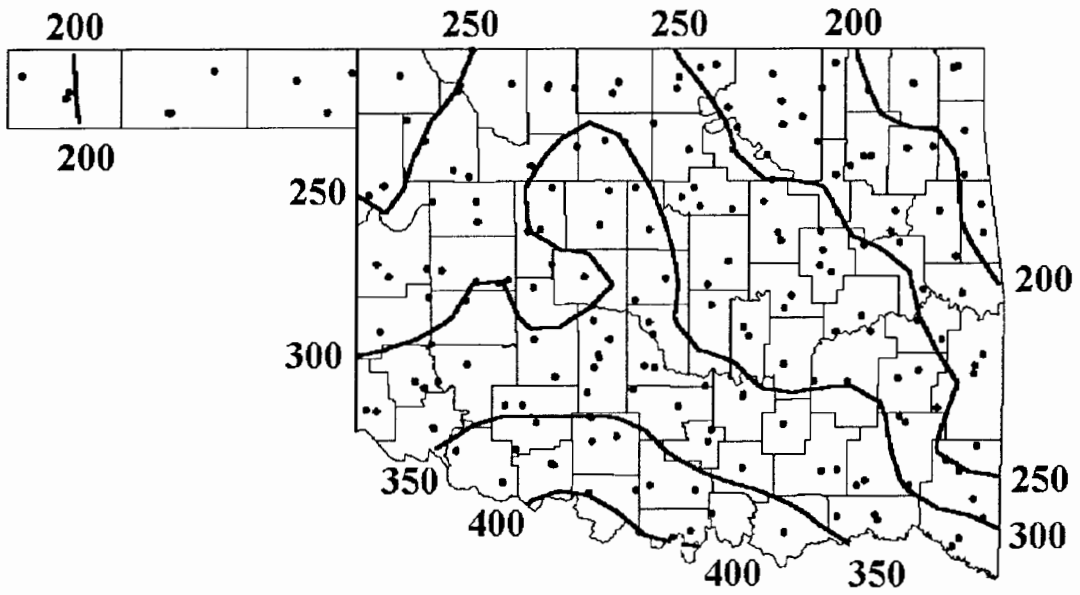
SEPTEMBER 1997 DEPARTURE FROM NORMAL PRECIPITATION
(INCHES)



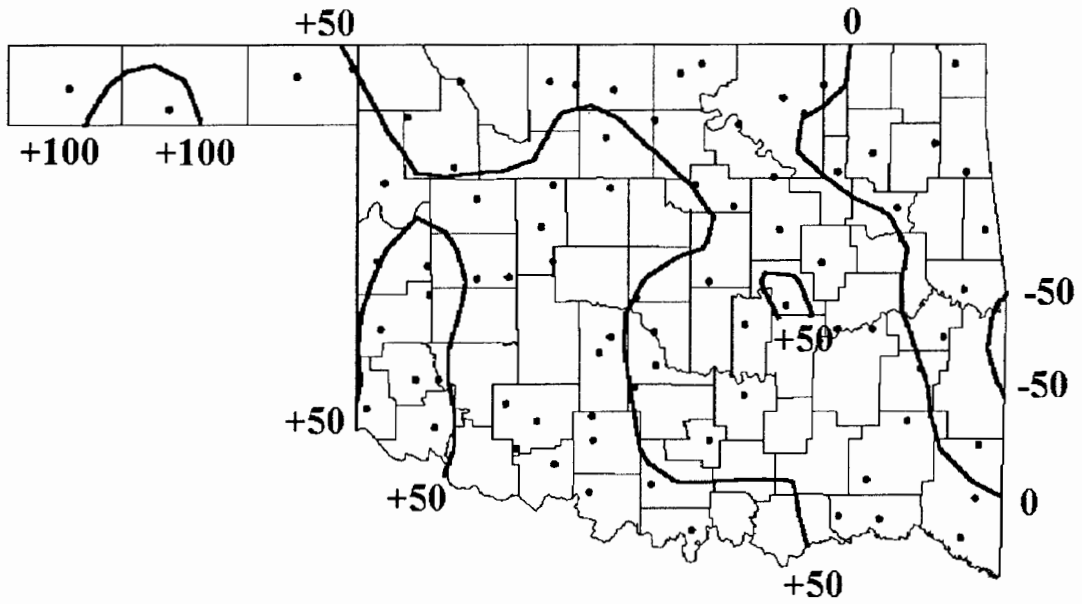
SEPTEMBER 1997 AVERAGE MONTHLY TEMPERATURE (°F)



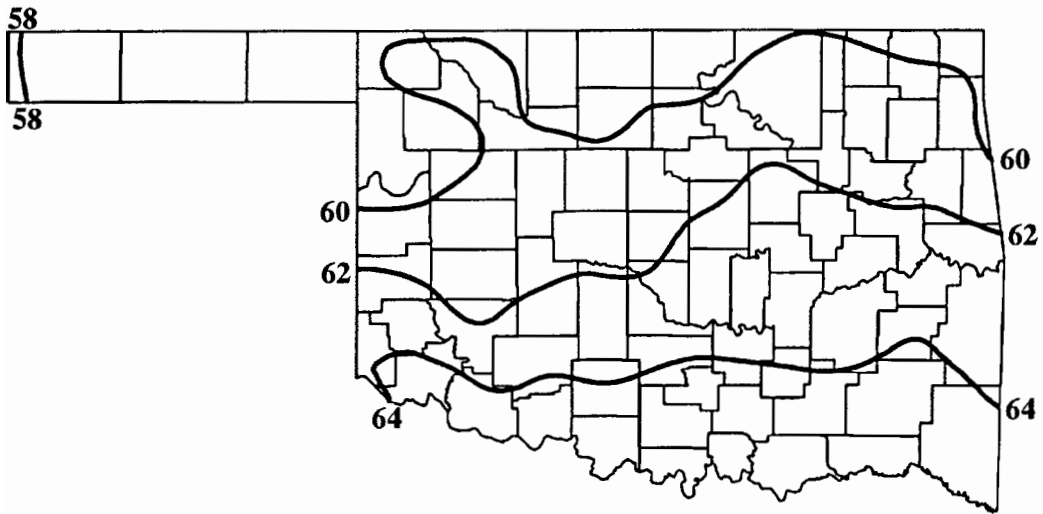
SEPTEMBER 1997 DEPARTURE FROM NORMAL TEMPERATURE (°F)



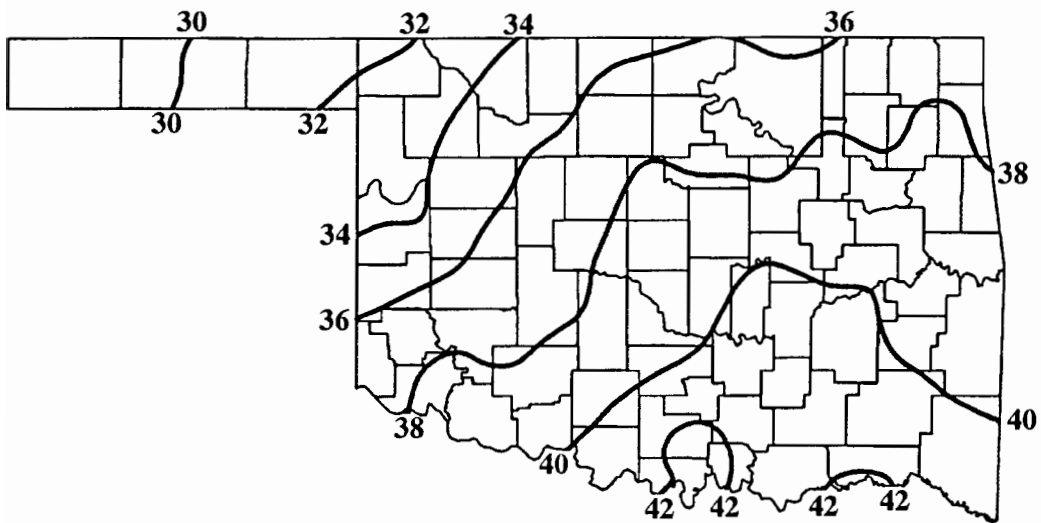
SEPTEMBER 1997 ACCUMULATED COOLING DEGREE DAYS (°F)



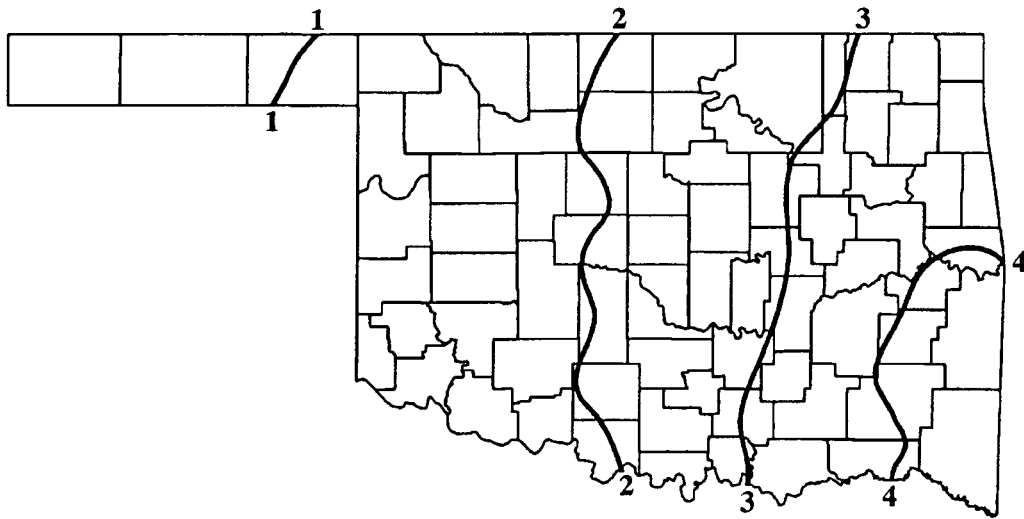
SEPTEMBER 1997 DEPARTURE FROM NORMAL COOLING DEGREE DAYS (°F)



NOVEMBER NORMAL DAILY MAXIMUM TEMPERATURE (°F)



NOVEMBER NORMAL DAILY MINIMUM TEMPERATURE (°F)

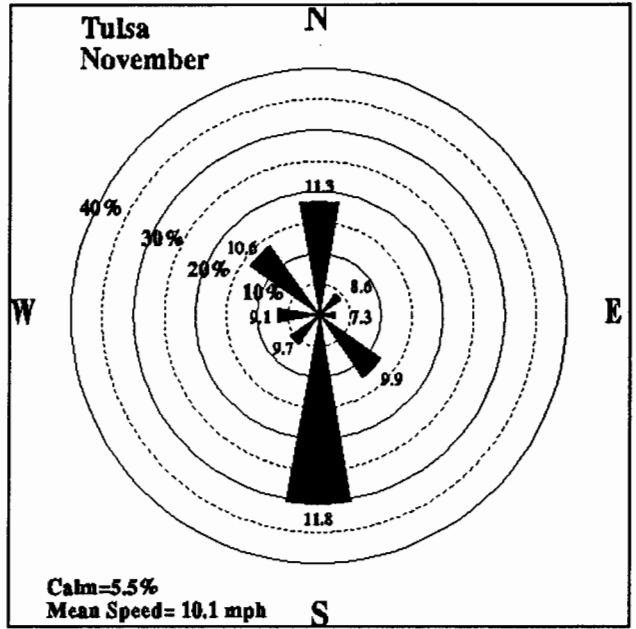
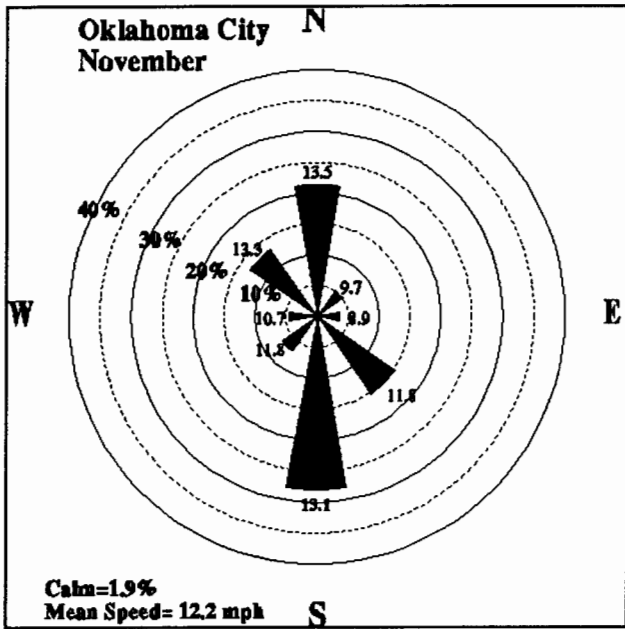


NOVEMBER NORMAL MONTHLY PRECIPITATION (inches)

OUTLOOK FOR NOVEMBER 1997 THROUGH JANUARY 1998
BASED ON SEASONAL OUTLOOKS PROVIDED BY THE CLIMATE PREDICTION CENTER

TEMPERATURE: Near Normal Statewide

PRECIPITATION: Greater Than Normal Statewide



November 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.

NOVEMBER 1997 SUNRISE AND SUNSET

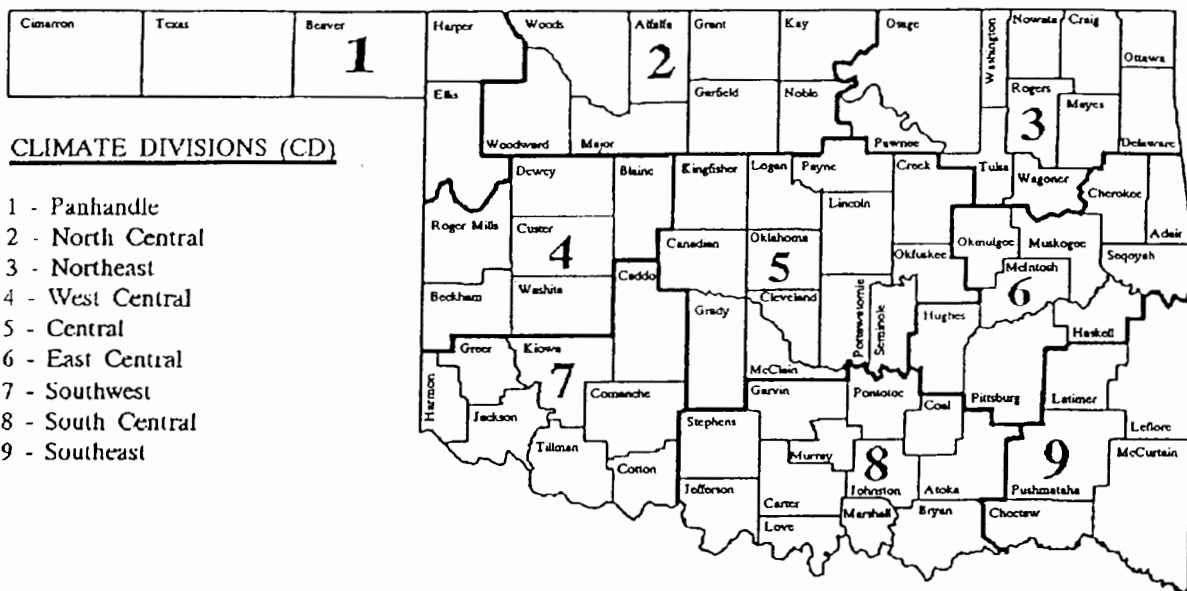
OKLAHOMA CITY

DATE	SUNRISE	SUNSET	DAYLIGHT
9711 1	6:51AM	5:38PM CST	10 hrs 47 mins
9711 2	6:52AM	5:37PM CST	10 hrs 45 mins
9711 3	6:52AM	5:36PM CST	10 hrs 43 mins
9711 4	6:53AM	5:35PM CST	10 hrs 41 mins
9711 5	6:54AM	5:34PM CST	10 hrs 39 mins
9711 6	6:55AM	5:33PM CST	10 hrs 38 mins
9711 7	6:56AM	5:32PM CST	10 hrs 36 mins
9711 8	6:57AM	5:31PM CST	10 hrs 34 mins
9711 9	6:58AM	5:31PM CST	10 hrs 32 mins
971110	6:59AM	5:30PM CST	10 hrs 31 mins
971111	7: 0AM	5:29PM CST	10 hrs 29 mins
971112	7: 1AM	5:29PM CST	10 hrs 27 mins
971113	7: 2AM	5:28PM CST	10 hrs 26 mins
971114	7: 3AM	5:27PM CST	10 hrs 24 mins
971115	7: 4AM	5:27PM CST	10 hrs 22 mins
971116	7: 5AM	5:26PM CST	10 hrs 21 mins
971117	7: 6AM	5:25PM CST	10 hrs 19 mins
971118	7: 7AM	5:25PM CST	10 hrs 18 mins
971119	7: 8AM	5:24PM CST	10 hrs 16 mins
971120	7: 9AM	5:24PM CST	10 hrs 15 mins
971121	7:10AM	5:24PM CST	10 hrs 13 mins
971122	7:11AM	5:23PM CST	10 hrs 12 mins
971123	7:12AM	5:23PM CST	10 hrs 11 mins
971124	7:13AM	5:22PM CST	10 hrs 9 mins
971125	7:14AM	5:22PM CST	10 hrs 8 mins
971126	7:15AM	5:22PM CST	10 hrs 7 mins
971127	7:16AM	5:22PM CST	10 hrs 6 mins
971128	7:17AM	5:21PM CST	10 hrs 5 mins
971129	7:18AM	5:21PM CST	10 hrs 4 mins
971130	7:18AM	5:21PM CST	10 hrs 2 mins

TULSA

DATE	SUNRISE	SUNSET	DAYLIGHT
9711 1	6:45AM	5:30PM CST	10 hrs 45 mins
9711 2	6:46AM	5:29PM CST	10 hrs 43 mins
9711 3	6:47AM	5:28PM CST	10 hrs 41 mins
9711 4	6:48AM	5:27PM CST	10 hrs 39 mins
9711 5	6:49AM	5:26PM CST	10 hrs 37 mins
9711 6	6:50AM	5:25PM CST	10 hrs 35 mins
9711 7	6:51AM	5:24PM CST	10 hrs 33 mins
9711 8	6:52AM	5:23PM CST	10 hrs 31 mins
9711 9	6:53AM	5:23PM CST	10 hrs 30 mins
971110	6:54AM	5:22PM CST	10 hrs 28 mins
971111	6:55AM	5:21PM CST	10 hrs 26 mins
971112	6:56AM	5:20PM CST	10 hrs 24 mins
971113	6:57AM	5:20PM CST	10 hrs 23 mins
971114	6:58AM	5:19PM CST	10 hrs 21 mins
971115	6:59AM	5:18PM CST	10 hrs 19 mins
971116	7: 0AM	5:18PM CST	10 hrs 18 mins
971117	7: 1AM	5:17PM CST	10 hrs 16 mins
971118	7: 2AM	5:17PM CST	10 hrs 15 mins
971119	7: 3AM	5:16PM CST	10 hrs 13 mins
971120	7: 4AM	5:16PM CST	10 hrs 12 mins
971121	7: 5AM	5:15PM CST	10 hrs 10 mins
971122	7: 6AM	5:15PM CST	10 hrs 9 mins
971123	7: 7AM	5:14PM CST	10 hrs 7 mins
971124	7: 8AM	5:14PM CST	10 hrs 6 mins
971125	7: 9AM	5:14PM CST	10 hrs 5 mins
971126	7:10AM	5:13PM CST	10 hrs 3 mins
971127	7:11AM	5:13PM CST	10 hrs 2 mins
971128	7:12AM	5:13PM CST	10 hrs 1 mins
971129	7:13AM	5:12PM CST	10 hrs 0 mins
971130	7:13AM	5:12PM CST	9 hrs 59 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

NOVEMBER

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 87.4 46.3 9.06 1 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 63.4 42.6 12 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Normal 63.4 42.6 12 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 69-1916 26-1951 19-1991 66-1996 1.61-1974	Normal 62.1 40.9 14 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 84-1909 36-1991 11-1991 61-1989 1.51-1954	Normal 63.2 41.1 13 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 83-1921 40-1990 23-1996 68-1916 2.17-1986	Normal 62.0 41.3 13 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 87-1991 54-1951 23-1951 64-1924 1.09-1946	Normal 63.4 41.4 13 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 85-1990 39-1959 20-1959 69-1946 2.14-1995	Normal 63.4 41.3 13 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 86-1990 41-1959 20-1959 62-1916 1.71-1920		
Normal 63.7 41.4 13 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 62.7 39.9 14 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Normal 62.7 39.9 14 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 87-1980 59-1996 19-1991 66-1966 1.42-1995	Normal 62.7 39.9 14 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 82-1998 37-1950 25-1955 61-1956 1.15-1977	Normal 62.7 39.9 14 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 81-1990 33-1960 20-1950 60-1982 1.17-1997	Normal 63.7 39.4 14 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 83-1911 33-1995 17-1911 61-1922 1.10-1986	Normal 63.7 39.7 13 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 79-1910 29-1940 14-1911 62-1902 1.19-1922	Normal 64.4 40.9 13 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 80-1997 28-1998 12-1940 61-1999 3.22-1909	Normal 62.1 41.3 14 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 79-1973 29-1940 14-1916 65-1997 1.56-1924
Normal 61.9 40.2 14 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 58.5 38.9 17 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Normal 58.5 38.9 17 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 84-1909 32-1992 16-1940 61-1971 2.43-1990	Normal 59.0 36.6 17 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 80-1996 30-1993 9-1994 61-1996 1.70-1994	Normal 58.4 38.1 17 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 80-1996 36-1993 19-1993 64-1924 2.14-1999	Normal 59.7 37.1 17 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 82-1998 31-1997 16-1997 69-1919 4.46-1999	Normal 59.0 38.6 18 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 78-1998 26-1990 19-1997 60-1990 1.74-1979	Normal 59.0 38.6 18 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 80-1927 29-1920 14-1999 69-1902 1.49-1916		
Normal 59.1 35.8 18 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 57.6 34.6 19 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Normal 57.6 34.6 19 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 78-1982 27-1998 16-1988 60-1996 1.54-1991	Normal 58.2 35.1 19 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 84-1995 32-1918 16-1960 60-1960 1.14-1979	Normal 60.5 37.7 16 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 84-1966 29-1993 16-1983 62-1966 2.01-1940	Normal 57.9 34.0 18 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 81-1910 31-1992 13-1983 62-1990 1.80-1992	Normal 51.8 32.0 23 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 82-1905 28-1998 16-1979 69-1927 1.90-1998	Normal 49.5 29.9 26 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 81-1949 26-1911 14-1896 69-1927 1.44-1996		
Normal 53.0 30.0 24 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 54.5 31.9 22 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Normal 54.5 31.9 22 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 80-1927 28-1997 11-1911 64-1993 0.67-1996	Normal 53.0 30.0 24 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 74-1946 32-1996 15-1876 60-1993 .72-1909	Normal 53.0 30.0 24 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 74-1946 32-1996 15-1876 60-1993 .72-1909	Normal 53.0 30.0 24 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 74-1946 32-1996 15-1876 60-1993 .72-1909	Normal 53.0 30.0 24 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 74-1946 32-1996 15-1876 60-1993 .72-1909	Normal 53.0 30.0 24 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 74-1946 32-1996 15-1876 60-1993 .72-1909		

NOVEMBER AVERAGES

TEMPERATURE : 49.0 °F
 PRECIPITATION : 1.68"
 HEATING DEGREE DAYS : 485
 COOLING DEGREE DAYS : 1

TULSA CLIMATE CALENDAR

NOVEMBER

The data on this calendar are for Tulsa. Normal values are calculated for the period 1948 - 1992; Temperature extremes are for the period 1905 - 1996; precipitation extremes are for the period 1948 - 1996.

Normal 1 Actual Max 89.0 Min 44.0 RFD 89 PFD 1 CDD 0	Normal 2 Actual Max 65.0 Min 44.0 RFD 17 PFD 0 CDD 0	Normal 3 Actual Max 83.0 Min 41.0 RFD 17 PFD 1 CDD 0	Normal 4 Actual Max 64.0 Min 42.0 RFD 12 PFD 0 CDD 0	Normal 5 Actual Max 62.0 Min 41.0 RFD 13 PFD 0 CDD 0	Normal 6 Actual Max 62.0 Min 41.0 RFD 14 PFD 0 CDD 0	Normal 7 Actual Max 63.0 Min 41.0 RFD 13 PFD 0 CDD 0
Highest Max 85-1916 Lowest Max 37-1961 Highest Min 64-1987 Lowest Min 25-1961 Highest ppt 1.45-1964 Lowest ppt	Highest Max 69-1906 Lowest Max 27-1991 Highest Min 20-1966 Lowest Min 65-1983 Highest ppt 2.82-1974 Lowest ppt	Highest Max 88-1909 Lowest Max 96-1991 Highest Min 76-1991 Lowest Min 67-1989 Highest ppt 3.20-1974 Lowest ppt	Highest Max 86-1914 Lowest Max 93-1961 Highest Min 61-1967 Lowest Min 20-1961 Highest ppt 1.26-1966 Lowest ppt	Highest Max 87-1914 Lowest Max 94-1961 Highest Min 60-1965 Lowest Min 25-1979 Highest ppt 3.2-1967 Lowest ppt	Highest Max 87-1945 Lowest Max 93-1969 Highest Min 60-1966 Lowest Min 20-1969 Highest ppt 3.44-1966 Lowest ppt	Highest Max 85-1960 Lowest Max 41-1991 Highest Min 60-1966 Lowest Min 22-1991 Highest ppt 3.9-1967 Lowest ppt
Normal 8 Actual Max 64.0 Min 43.0 RFD 69 PFD 12 CDD 0	Normal 9 Actual Max 63.0 Min 40.0 RFD 64 PFD 13 CDD 0	Normal 10 Actual Max 63.0 Min 40.0 RFD 68 PFD 14 CDD 0	Normal 11 Actual Max 62.0 Min 39.0 RFD 63 PFD 14 CDD 0	Normal 12 Actual Max 63.0 Min 40.0 RFD 69 PFD 13 CDD 0	Normal 13 Actual Max 65.0 Min 39.0 RFD 67 PFD 13 CDD 0	Normal 14 Actual Max 62.0 Min 41.0 RFD 65 PFD 14 CDD 0
Highest Max 84-1980 Lowest Max 41-1991 Highest Min 16-1991 Lowest Min 67-1966 Highest ppt 1.45-1977 Lowest ppt	Highest Max 82-1934 Lowest Max 42-1950 Highest Min 23-1955 Lowest Min 59-1984 Highest ppt .65-1974 Lowest ppt	Highest Max 83-1946 Lowest Max 37-1950 Highest Min 21-1950 Lowest Min 62-1949 Highest ppt 1.67-1992 Lowest ppt	Highest Max 85-1969 Lowest Max 31-1986 Highest Min 17-1960 Lowest Min 60-1949 Highest ppt 1.67-1992 Lowest ppt	Highest Max 80-1969 Lowest Max 94-1996 Highest Min 15-1911 Lowest Min 62-1951 Highest ppt 2.44-1972 Lowest ppt	Highest Max 84-1910 Lowest Max 90-1990 Highest Min 12-1940 Lowest Min 82-1989 Highest ppt 1.90-1986 Lowest ppt	Highest Max 79-1989 Lowest Max 93-1959 Highest Min 13-1916 Lowest Min 62-1959 Highest ppt 1.08-1979 Lowest ppt
Normal 15 Actual Max 63.0 Min 42.0 RFD 55 PFD 15 CDD 0	Normal 16 Actual Max 61.0 Min 40.0 RFD 56 PFD 15 CDD 0	Normal 17 Actual Max 60.0 Min 39.0 RFD 54 PFD 16 CDD 0	Normal 18 Actual Max 59.0 Min 39.0 RFD 59 PFD 16 CDD 0	Normal 19 Actual Max 60.0 Min 39.0 RFD 57 PFD 16 CDD 0	Normal 20 Actual Max 58.0 Min 35.0 RFD 20 PFD 18 CDD 0	Normal 21 Actual Max 58.0 Min 35.0 RFD 23 PFD 18 CDD 0
Highest Max 82-1960 Lowest Max 96-1970 Highest Min 11-1940 Lowest Min 68-1964 Highest ppt 2.60-1964 Lowest ppt	Highest Max 89-1963 Lowest Max 37-1955 Highest Min 11-1992 Lowest Min 65-1959 Highest ppt 1.95-1995 Lowest ppt	Highest Max 80-1969 Lowest Max 32-1969 Highest Min 11-1959 Lowest Min 55-1975 Highest ppt 1.24-1992 Lowest ppt	Highest Max 82-1936 Lowest Max 37-1972 Highest Min 19-1961 Lowest Min 60-1966 Highest ppt 1.26-1964 Lowest ppt	Highest Max 81-1969 Lowest Max 95-1972 Highest Min 61-1979 Lowest Min 14-1963 Highest ppt 1.65-1969 Lowest ppt	Highest Max 81-1969 Lowest Max 98-1972 Highest Min 16-1967 Lowest Min 62-1979 Highest ppt 4.59-1979 Lowest ppt	Highest Max 79-1927 Lowest Max 94-1964 Highest Min 18-1964 Lowest Min 59-1966 Highest ppt 7.0-1961 Lowest ppt
Normal 22 Actual Max 59.0 Min 37.0 RFD 17 PFD 17 CDD 0	Normal 23 Actual Max 58.0 Min 35.0 RFD 18 PFD 18 CDD 0	Normal 24 Actual Max 58.0 Min 35.0 RFD 20 PFD 20 CDD 0	Normal 25 Actual Max 60.0 Min 37.0 RFD 16 PFD 16 CDD 0	Normal 26 Actual Max 57.0 Min 34.0 RFD 18 PFD 18 CDD 0	Normal 27 Actual Max 52.0 Min 33.0 RFD 23 PFD 23 CDD 0	Normal 28 Actual Max 50.0 Min 31.0 RFD 26 PFD 26 CDD 0
Highest Max 79-1966 Lowest Max 96-1971 Highest Min 16-1929 Lowest Min 62-1966 Highest ppt .90-1962 Lowest ppt	Highest Max 78-1974 Lowest Max 29-1970 Highest Min 14-1970 Lowest Min 67-1959 Highest ppt .95-1952 Lowest ppt	Highest Max 80-1965 Lowest Max 96-1960 Highest Min 61-1966 Lowest Min 25-1979 Highest ppt	Highest Max 84-1965 Lowest Max 31-1993 Highest Min 17-1960 Lowest Min 61-1966 Highest ppt 1.09-1966 Lowest ppt	Highest Max 83-1965 Lowest Max 90-1975 Highest Min 14-1993 Lowest Min 65-1960 Highest ppt 1.59-1992 Lowest ppt	Highest Max 77-1927 Lowest Max 95-1986 Highest Min 16-1969 Lowest Min 60-1960 Highest ppt 1.13-1992 Lowest ppt	Highest Max 81-1949 Lowest Max 28-1979 Highest Min 13-1976 Lowest Min 60-1991 Highest ppt .59-1969 Lowest ppt
Normal 29 Actual Max 53.0 Min 30.0 RFD 23 PFD 23 CDD 0	Normal 30 Actual Max 54.0 Min 31.0 RFD 23 PFD 23 CDD 0	Highest Max 82-1927 Lowest Max 96-1979 Highest Min 10-1976 Lowest Min 64-1976 Highest ppt 1.06-1976 Lowest ppt	Highest Max 76-1933 Lowest Max 93-1974 Highest Min 15-1964 Lowest Min 65-1970 Highest ppt .79-1991 Lowest ppt	Highest Max 49.3°F Lowest Max 2.62" Heating Degree Days : 472 Cooling Degree Days : 2		

TULSA CLIMATE CALENDAR

NOVEMBER

The data on this calendar are for Tulsa. Normal values are calculated for the period 1948 - 1992; Temperature extremes are for the period 1905 - 1996; precipitation extremes are for the period 1948 - 1996.

<p>Normal 1 Actual</p> <p>59.0 Max 46.0 min 1.0 ppt 8 cdd</p> <p>Highest Max 86-1916 Lowest Max 37-1961 Highest Min 64-1907 Lowest Min 127-1904 Greatest ppt</p>	<p>Normal 2 Actual</p> <p>65.0 Max 44.0 min 1.7 ppt 11 cdd</p> <p>Highest Max 89-1908 Lowest Max 27-1991 Highest Min 20-1986 Lowest Min 65-1982 Greatest ppt 282-1974</p>	<p>Normal 3 Actual</p> <p>63.0 Max 41.0 min 1.7 ppt 13 cdd</p> <p>Highest Max 88-1908 Lowest Max 36-1991 Highest Min 19-1991 Lowest Min 67-1985 Greatest ppt 520-1974</p>	<p>Normal 4 Actual</p> <p>64.0 Max 42.0 min 1.08 ppt 12 cdd</p> <p>Highest Max 86-1914 Lowest Max 36-1991 Highest Min 21-1991 Lowest Min 60-1987 Greatest ppt 126-1986</p>	<p>Normal 5 Actual</p> <p>62.0 Max 41.0 min 1.0 ppt 13 cdd</p> <p>Highest Max 87-1914 Lowest Max 34-1981 Highest Min 25-1978 Lowest Min 60-1985 Greatest ppt 32-1987</p>	<p>Normal 6 Actual</p> <p>62.0 Max 41.0 min 1.0 ppt 14 cdd</p> <p>Highest Max 87-1914 Lowest Max 36-1995 Highest Min 20-1995 Lowest Min 60-1985 Greatest ppt 349-1990</p>	<p>Normal 7 Actual</p> <p>63.0 Max 41.0 min 1.0 ppt 13 cdd</p> <p>Highest Max 85-1980 Lowest Max 41-1991 Highest Min 22-1991 Lowest Min 60-1985 Greatest ppt 93-1987</p>	<p>Normal 8 Actual</p> <p>64.0 Max 43.0 min 1.0 ppt 12 cdd</p> <p>Highest Max 84-1980 Lowest Max 41-1991 Highest Min 16-1991 Lowest Min 67-1986 Greatest ppt 145-1977</p>	<p>Normal 9 Actual</p> <p>63.0 Max 40.0 min 0.4 ppt 13 cdd</p> <p>Highest Max 82-1934 Lowest Max 42-1990 Highest Min 23-1995 Lowest Min 58-1984 Greatest ppt 65-1974</p>	<p>Normal 10 Actual</p> <p>63.0 Max 39.0 min 0.6 ppt 14 cdd</p> <p>Highest Max 83-1948 Lowest Max 37-1980 Highest Min 21-1990 Lowest Min 62-1942 Greatest ppt 63-1989</p>	<p>Normal 11 Actual</p> <p>62.0 Max 39.0 min 0.9 ppt 14 cdd</p> <p>Highest Max 85-1989 Lowest Max 31-1986 Highest Min 17-1980 Lowest Min 60-1949 Greatest ppt 167-1982</p>	<p>Normal 12 Actual</p> <p>63.0 Max 40.0 min 1.0 ppt 13 cdd</p> <p>Highest Max 80-1989 Lowest Max 34-1986 Highest Min 15-1911 Lowest Min 62-1981 Greatest ppt 24-1972</p>	<p>Normal 13 Actual</p> <p>65.0 Max 39.0 min 0.7 ppt 13 cdd</p> <p>Highest Max 84-1910 Lowest Max 30-1986 Highest Min 12-1940 Lowest Min 62-1989 Greatest ppt 180-1986</p>	<p>Normal 14 Actual</p> <p>62.0 Max 41.0 min 1.0 ppt 14 cdd</p> <p>Highest Max 79-1989 Lowest Max 33-1989 Highest Min 13-1916 Lowest Min 62-1989 Greatest ppt 1,08-1979</p>	<p>Normal 15 Actual</p> <p>63.0 Max 42.0 min 1.25 ppt 13 cdd</p> <p>Highest Max 82-1960 Lowest Max 36-1976 Highest Min 11-1940 Lowest Min 63-1964 Greatest ppt 260-1964</p>	<p>Normal 16 Actual</p> <p>61.0 Max 40.0 min 0.6 ppt 15 cdd</p> <p>Highest Max 83-1983 Lowest Max 37-1985 Highest Min 14-1992 Lowest Min 65-1989 Greatest ppt 1,80-1986</p>	<p>Normal 17 Actual</p> <p>60.0 Max 39.0 min 1.14 ppt 16 cdd</p> <p>Highest Max 80-1989 Lowest Max 32-1989 Highest Min 11-1989 Lowest Min 56-1975 Greatest ppt 124-1982</p>	<p>Normal 18 Actual</p> <p>58.0 Max 39.0 min 0.9 ppt 16 cdd</p> <p>Highest Max 82-1990 Lowest Max 37-1972 Highest Min 13-1961 Lowest Min 60-1985 Greatest ppt 126-1964</p>	<p>Normal 19 Actual</p> <p>60.0 Max 38.0 min 1.7 ppt 16 cdd</p> <p>Highest Max 81-1988 Lowest Max 35-1972 Highest Min 14-1987 Lowest Min 61-1979 Greatest ppt 1,65-1983</p>	<p>Normal 20 Actual</p> <p>58.0 Max 36.0 min 2.0 ppt 18 cdd</p> <p>Highest Max 81-1988 Lowest Max 36-1972 Highest Min 16-1987 Lowest Min 62-1979 Greatest ppt 4,69-1979</p>	<p>Normal 21 Actual</p> <p>58.0 Max 36.0 min 1.9 ppt 19 cdd</p> <p>Highest Max 79-1927 Lowest Max 34-1964 Highest Min 18-1964 Lowest Min 53-1986 Greatest ppt 70-1961</p>	<p>Normal 22 Actual</p> <p>59.0 Max 37.0 min 0.7 ppt 17 cdd</p> <p>Highest Max 79-1968 Lowest Max 36-1971 Highest Min 16-1928 Lowest Min 62-1986 Greatest ppt 90-1982</p>	<p>Normal 23 Actual</p> <p>58.0 Max 35.0 min 0.2 ppt 18 cdd</p> <p>Highest Max 78-1974 Lowest Max 33-1970 Highest Min 17-1970 Lowest Min 63-1986 Greatest ppt 95-1982</p>	<p>Normal 24 Actual</p> <p>56.0 Max 35.0 min 1.16 ppt 20 cdd</p> <p>Highest Max 80-1985 Lowest Max 36-1960 Highest Min 14-1960 Lowest Min 61-1986 Greatest ppt 254-1979</p>	<p>Normal 25 Actual</p> <p>60.0 Max 37.0 min 0.7 ppt 16 cdd</p> <p>Highest Max 84-1985 Lowest Max 31-1993 Highest Min 17-1980 Lowest Min 61-1986 Greatest ppt 1,03-1986</p>	<p>Normal 26 Actual</p> <p>57.0 Max 36.0 min 1.1 ppt 18 cdd</p> <p>Highest Max 83-1985 Lowest Max 30-1975 Highest Min 14-1983 Lowest Min 65-1989 Greatest ppt 1,66-1982</p>	<p>Normal 27 Actual</p> <p>52.0 Max 33.0 min 0.8 ppt 23 cdd</p> <p>Highest Max 77-1927 Lowest Max 36-1986 Highest Min 16-1936 Lowest Min 56-1980 Greatest ppt 1,13-1982</p>	<p>Normal 28 Actual</p> <p>50.0 Max 31.0 min 0.3 ppt 25 cdd</p> <p>Highest Max 81-1949 Lowest Max 28-1978 Highest Min 13-1976 Lowest Min 60-1991 Greatest ppt 53-1989</p>	<p>Normal 29 Actual</p> <p>63.0 Max 36.0 min 0.6 ppt 23 cdd</p> <p>Highest Max 82-1927 Lowest Max 36-1976 Highest Min 10-1976 Lowest Min 54-1976 Greatest ppt 1,06-1976</p>	<p>Normal 30 Actual</p> <p>64.0 Max 31.0 min 0.3 ppt 23 cdd</p> <p>Highest Max 79-1983 Lowest Max 39-1974 Highest Min 13-1984 Lowest Min 65-1970 Greatest ppt 73-1981</p>
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NOVEMBER AVERAGES

TEMPERATURE : 49.3°F
 PRECIPITATION : 2.62"
 HEATING DEGREE DAYS : 472
 COOLING DEGREE DAYS : 2