

OKLAHOMA MONTHLY SUMMARY NOVEMBER 1996

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MONTHLY SUMMARY FOR NOVEMBER 1996

Monthly precipitation during November was above normal across most of Oklahoma. The total precipitation for the month, averaged statewide of 5.27 inches, 2.85 inches greater than normal, ranks as the 6th greatest November precipitation total since 1892. The large November precipitation total finished the 7th wettest autumn in the 105 years of statewide records, 13.90 inches, exceeding the normal value by 4.47 inches. Year-to-date precipitation for the state totals 36.15 inches, 4.17 inches greater than normal for the first eleven months of the year, the 22nd highest total on record.

The state's average temperature for November was a brisk 46.5 degrees, 3.3 degrees lower than normal, ranking this as the 17th coldest November on record. Autumn temperatures averaged 59.1 degrees, 2.5 degrees below normal, to rank 4th coldest all-time. The average temperature for the year, thus far, is 61.3 degrees, 0.9 degree lower than normal and 17th lowest all-time.

Heavy thunderstorms on the 1st produced large hail at Tupelo (Coal County) and over two inches of rain at several locations, including McCurtain (Haskell), Spiro (LeFlore) and Bengal (Latimer). A pleasantly warm interlude that included high temperatures in the upper 70s and low 80s on the 5th ended with the passage of a vigorous cold front on the 6th. Thunderstorms developed ahead of the front producing large hail in Grady, Stephens, Garvin, Carter and Pushmataha counties and heavy rain that led to localized flooding over much of the eastern one-third of the state. The Antlers (Pushmataha) Mesonet site recorded a two-day precipitation of 5.86 inches. Spiro (LeFlore), Eufaula (McIntosh) and Zoe (LeFlore) each recorded between 4.5 and 5 inches. A Pushmataha County man drowned, apparently when he was caught in flood waters that had caused his car to stall.

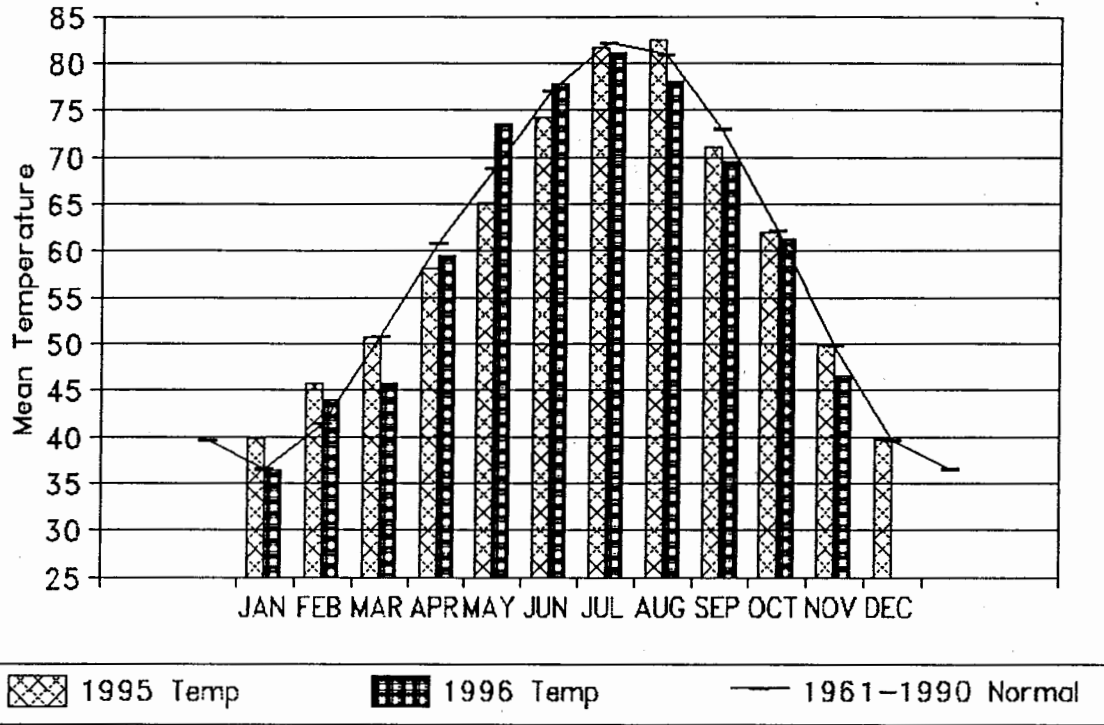
A full-scale winter storm that moved northeastward out of New Mexico on the 16th brought an inch-and-a-half of snow and temperatures in the teens to the western Panhandle, heavy rains across much of the north and severe thunderstorms across much of southern Oklahoma. Cherokee (Alfalfa) received 4 inches of rain. Mesonet sites near Alva (Woods) and Blackwell (Kay) noted 3.73 and 3.72 inches of precipitation, respectively. Local flooding was reported in Woods, Alfalfa, Grant, Kay, Noble, Grady, Stephens, Tulsa, Creek and Rogers counties. Temperatures plunged to 14 degrees at Boise City and 16 at the Kenton Mesonet site (both in Cimarron County) by the morning of the 17th, but the cold was short-lived. Daytime temperatures at both places soared into the 80s (84 at Boise City and 83 at Kenton, both recorded by Mesonet stations) on the 19th.

Cold air lingered over the main body of the state through the 23rd when it was reinforced by even colder air that led to a significant sleet and ice storm over the southeastern two-thirds of the state. Up to 3 inches of snow (or sleet) were reported, but the widespread occurrence of as much as one-and-one-half inches of freezing rain was more significant. Heavy rains in advance of the freezing air produced 6.71 inches of rain over three days at Hugo (Choctaw), 6.41 inches at Talihina (LeFlore) and 6.02 inches at Zoe (LeFlore). Many other locations reported over 5 inches of precipitation. Flooding was reported in low lying areas of LeFlore and McCurtain counties. Freezing rain behind the advancing cold front caused power outages in much of northeastern and south central Oklahoma and made driving treacherous. Temperatures plunged into the teens and twenties statewide. Beaver (Beaver) and Goodwell (Texas) Mesonet sites and the National Weather Service observer at Kenton (Cimarron) all reported low temperatures of 12 degrees on the 25th. Eight people lost their lives as a result of the storm: a lightning strike killed a teenage boy on a hunting trip, an Oklahoma City man died from hypothermia and six traffic-related fatalities were caused by icy or wet roads.

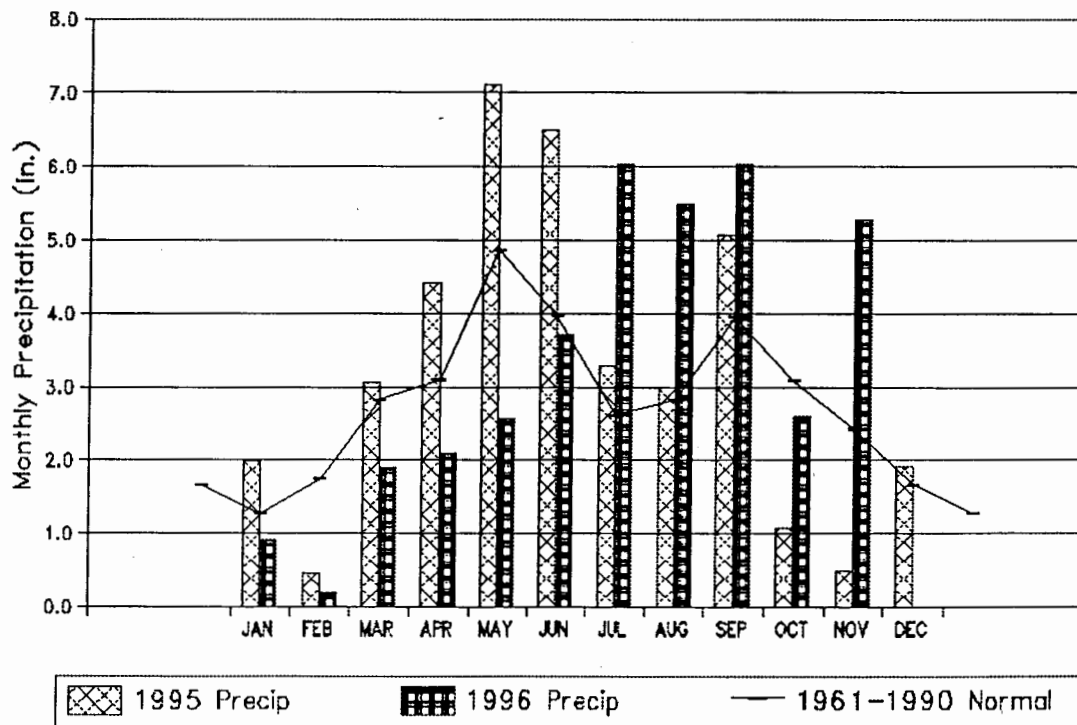
Another system on the 29th brought significant snow to far northwestern Oklahoma. May (Harper) reported 10 inches of snow with Boise City (Cimarron) showing 6 inches and Cherokee (Alfalfa) noting 5 inches. A mix of snow, rain and sleet fell in much of western Oklahoma with one-to-two inch rains common over the rest of the state. Daily minimum temperatures remained in the teens in many areas of the state at month's end.

Howard L. Johnson

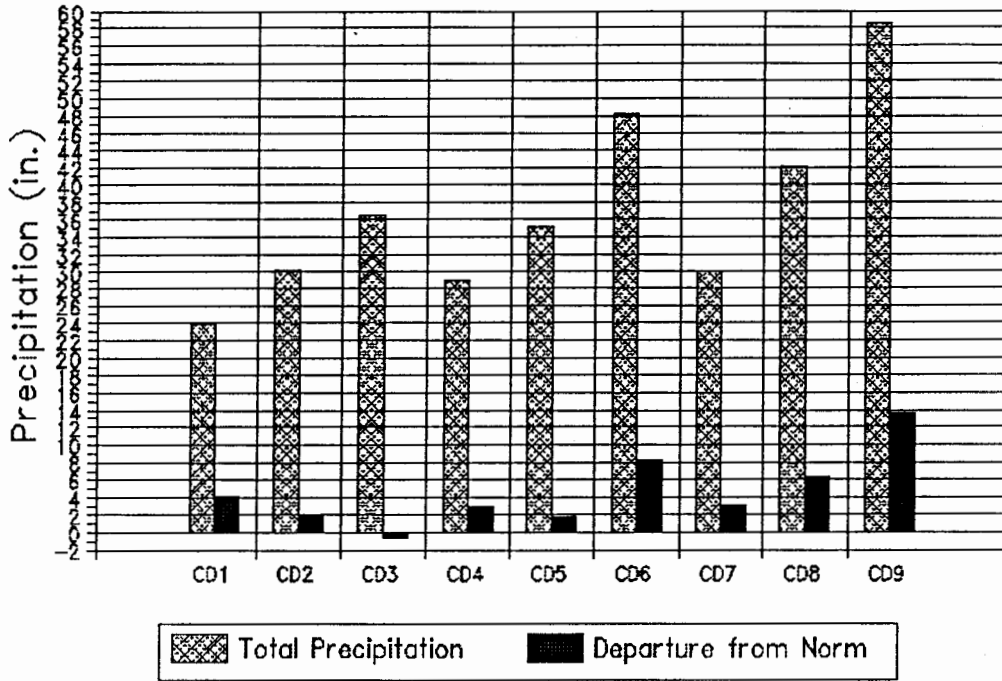
1995 and 1996 STATEWIDE TEMPERATURES Monthly Averages



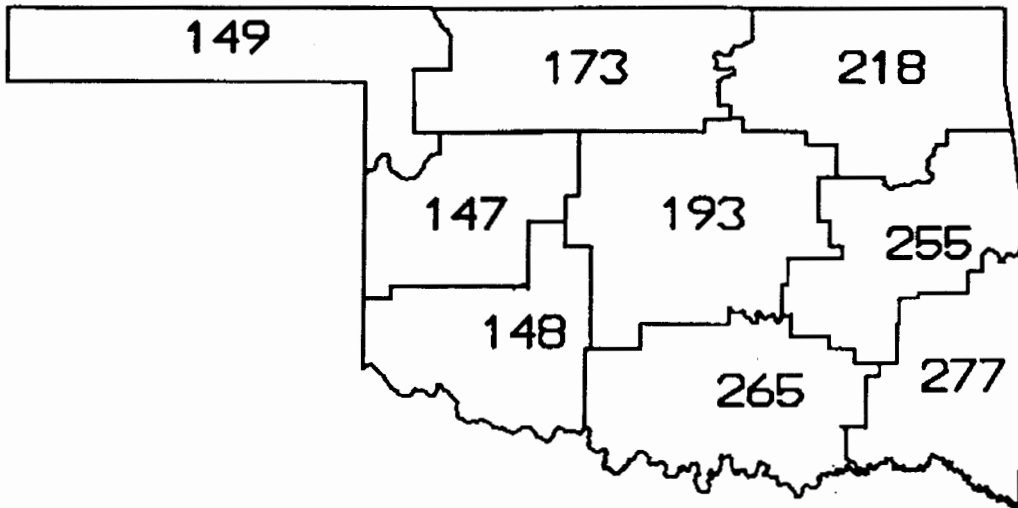
1995 and 1996 STATEWIDE PRECIPITATION Monthly Totals



CD Averaged Precipitation January through November 1996



CD PERCENT OF NORMAL PRECIPITATION



NOVEMBER 1996

**EXTREME VALUES OF TEMPERATURE AND PRECIPITATION IN EACH CLIMATE DIVISION
NOVEMBER, 1996**

CD	MAX TEMP	DATE	LOCATION	MIN TEMP	DATE	LOCATION	24-HOUR PRECIP	DATE	LOCATION	MONTHLY PRECIP	LOCATION
1	82 82	19 19	BOISE CITY KENTON	12	26	BEAVER	2.60	17	FARGO	3.92	FARGO
				12	25	GOODWELL					
				12	26	GOODWELL					
				12	25	KENTON					
2	79	6	FREEDOM	13	26	FREEDOM	4.00	16	CHEROKEE	5.60	ALVA
3	77	6	KEYSTONE	15	27	HULAH	4.15	7	CLAREMORE	9.84	CHELSEA
4	78 78 78	5 20 21	ERICK REYDON REYDON	16	28	HAMMON	2.10	17	COLONY	3.53	MORAVIA
				16	25	REYDON					
				16	26	REYDON					
5	80	5	GUTHRIE	15	27	GUTHRIE	4.01	6	MEEKER	8.36	BRISTOW
6	81	6	MCCURTAIN	19	26	STILWELL	4.85	7	EUFULA	13.27	SHORT
7	82	5	MANGUM	19	25	FREDERICK	1.50	7	DUNCAN 11 W	4.28	RANDLETT
8	81	6	WAURIKA DAM	19	25	PAULS VALLEY	4.62	12	WAURIKA	12.06	MCGEE CREEK
9	79	6	WILBURTON	23	27	BATTIEST	4.87	7	SPIRO	16.35	ZOE
				23	28	BATTIEST					
				23	27	BROKEN BOW D					
				23	26	PINE CREEK					
				23	27	PINE CREEK					

TABLE OF 1995/1996 COMPARISONS

Station	NOVEMBER Temperature (°F)		NOVEMBER Precipitation (in.)	
	1995	1996	1995	1996
Arnett	46.2	42.1	0.07	2.76
Mutual	****	42.2	****	1.44
Tulsa	48.8	44.9	0.25	7.21
Elk City	51.4	46.3	0.05	3.30
Oklahoma City	49.3	46.3	0.39	3.37
McAlester	51.8	47.2	1.03	1.39
Altus Irr Station	53.2	50.7	0.17	1.42
Ardmore	54.1	51.0	0.95	6.69
Idabel	49.7	48.2	1.39	9.99

EXTREMES

VARIABLE	STATION	DIVISION	OBSERVATION	DATE
Minimum temperature (°F)	Beaver	1	12	26
	Goodwell	1	12	25
	Goodwell	1	12	26
	Kenton	1	12	25
Maximum temperature (°F)	Boise City	1	82	19
	Kenton	1	82	19
	Mangum	7	82	5
Maximum 24-hour precipitation	Spiro	9	4.87"	7

NOVEMBER 1996 SUMMARY FOR PANHANDLE DIVISION (CD1)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV		MAX TEMP	DAY	MIN TEMP	DAY	HEAT		DEV		COOL DEG	DEV		TOT PPT	NUM OBS	DEV	
					FROM NORM	MAX					DEG	NORM	DEG	FROM NORM		MAX	FROM NORM			24-HR	DAY
ARNETT	332	1	42.1	30	-3.6	76	21	15	25	688	109	0	0	2.760	30	1.33	1.34	16			
BEAVER	593	1	42.8	30	-1.5	78	7	12	26	667.5	43.5	0	0	2.132	30	1.11	1.8	16			
BOISE CITY	908	1	43.1	30	-1.6	82	19	13	25	656	47	0	0	0.524	30	-0.2	0.3	30			
BUFFALO	1243	1	44.2	30	-2.9	79	5	16	26	624.5	87.5	1	1	1.400	30	-0.22	1.1	16			
FARGO	3070	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.924	29	*****	2.6	17			
GAGE	3407	1	48.4	8	*****	78	20	26	11	133	*****	0	*****	0.010	12	*****	0.01	3			
GATE	3489	1	43.1	29	-2.4	78	6	15	25	635.5	50.5	0	0	2.022	30	0.92	0.97	16			
GOODWELL	3628	1	44.0	30	0.2	80	21	12	26	631.5	-4.5	0	0	0.421	30	-0.31	0.27	16			
GUYMON	3835	1	42.6	30	*****	77	19	14	23	673	*****	0	*****	2.500	30	*****	1.98	30			
HOOKER	4298	1	42.6	30	-2	75	21	14	25	671	59	0	0	1.080	30	0.3	0.72	16			
KENTON	4766	1	44.6	29	1.3	82	19	12	25	590.5	-60.5	0	0	0.202	29	*****	0.16	30			
LAVERNE	5045	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.923	30	0.75	1.59	17			
REGNIER	7534	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.272	30	-0.29	0.22	30			
TURPIN	9017	1	42.1	24	*****	74	7	13	25	548.5	*****	0	*****	1.400	25	*****	1.28	16			

NOVEMBER 1996 SUMMARY FOR NORTH CENTRAL DIVISION (CD2)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV		MAX TEMP	DAY	MIN TEMP	DAY	HEAT		DEV		COOL DEG	DEV		TOT PPT	NUM OBS	DEV	
					FROM NORM	MAX					DEG	NORM	DEG	FROM NORM		MAX	FROM NORM			24-HR	DAY
ALVA	193	2	42.9	30	*****	76	5	19	25	662	*****	0	*****	5.600	30	*****	2.43	17			
VANCE AFB	302	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.573	28	*****	1.7	16			
BILLINGS	755	2	43.7	30	-3.7	77	6	22	27	638	110	0	0	3.163	30	0.89	2.62	17			
BLACKWELL 2E	818	2	46.5	19	*****	75	5	23	27	351	*****	0	*****	3.632	30	1.35	2.32	17			
BRAMAN	1075	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.472	30	*****	2.44	17			
CEDARDALE	1620	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.010	30	*****	0.85	16			
CHEROKEE	1724	2	44.5	30	-3.4	74	5	20	25	614	101	0	0	4.550	30	3.03	4	16			
ENID	2912	2	44.9	30	-3.7	76	5	21	27	602	110	0	0	2.750	30	0.54	1.6	17			
FT SUPPLY	3304	2	43.0	26	*****	77	6	14	25	572.5	*****	0	*****	2.921	30	1.66	2.16	17			
FREEDOM	3358	2	41.2	30	-5.8	79	6	13	26	715.5	175.5	0	0	3.460	30	2.11	2.13	17			
GREAT SALT P	3740	2	42.9	21	*****	71	11	20	27	464.5	*****	0	*****	3.800	22	*****	2.38	17			
HARDY	3909	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.161	30	*****	2.42	18			
HELENA	4019	2	42.9	30	-3.1	76	6	21	27	663	93	0	0	2.102	30	0.29	1.01	17			
JEFFERSON	4573	2	45.0	30	-3	77	5	22	26	600	90	0	0	3.462	30	1.28	1.79	16			
LAMONT	5013	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.351	30	*****	1.47	17			
MEDFORD	5768	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.640	30	*****	2.77	16			
MORRISON	6065	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.610	30	*****	1	17			
MUTUAL	6139	2	42.2	30	-4	75	6	17	26	685.5	121.5	0	0	1.440	30	0.04	0.74	17			
NEWKIRK	6278	2	44.0	30	-4	74	5	20	26	631	121	0	0	4.522	30	2.11	3.13	17			
ORIENTA	6751	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.940	30	0.22	1.31	17			
PERRY	7012	2	44.4	18	*****	65	20	22	26	370.5	*****	0	*****	2.981	21	*****	1.56	17			
PONCA CITY	7201	2	45.8	29	-1.5	77	5	22	26	555.5	24.5	0	0	3.391	29	*****	1.82	16			
RED ROCK	7505	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.890	30	1.8	2.8	17			
WAYNOKA	9404	2	43.7	30	-4.3	78	5	19	27	639.5	129.5	0	0	2.701	30	1.17	1.67	17			
WOODWARD	9760	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.673	30	1.3	1.87	17			

NOVEMBER 1996 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	44.3	30	-4.8	73	5	21	26	621.5	144.5	0	0	7.172	29	*****	2.57	17
BARTLESVILLE	548	3	44.4	30	-4.8	72	5	20	27	619	145	0	0	6.553	30	3.83	2.9	17
BIXBY	782	3	44.1	30	-4.3	76	6	23	28	627.5	129.5	0	0	6.000	30	2.86	2.01	7
BURBANK	1256	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.942	30	1.4	2.19	16
CHELSEA	1717	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	9.840	30	*****	2.7	7
CLAREMORE	1828	3	43.5	30	-5	75	6	22	28	643.5	148.5	0	0	8.610	30	5.38	4.15	7
CLEVELAND 2	1902	3	46.3	27	*****	75	5	21	27	505	*****	0	*****	5.451	30	*****	2.96	17
FORAKER	3250	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.950	30	-0.63	0.51	29
HOLLOW	4258	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.201	30	3.7	3.51	7
HOMINY	4289	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.771	30	4.14	3.12	17
HULAH	4393	3	40.4	18	*****	71	6	15	27	442.5	*****	0	*****	4.363	22	*****	2.46	17
KANSAS	4672	3	45.9	24	*****	74	5	19	27	457.5	*****	0	*****	7.232	26	*****	2.15	7
KEYSTONE	4812	3	44.3	25	*****	77	6	21	30	518.5	*****	0	*****	6.630	30	3.88	3.12	7
LENAPAH	5118	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.020	30	*****	2.5	17
MANNFORD	5522	3	45.9	30	-4	76	5	22	27	573	120	0	0	8.711	30	5.87	3.41	7
MARAMEC	5540	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.310	30	2.68	2.06	17
MIAMI	5855	3	41.4	29	-6.4	74	5	20	26	683.5	167.5	0	0	7.890	30	4.08	3.32	7
NOWATA	6485	3	42.8	30	-6.5	73	6	21	27	664.5	193.5	0	0	8.060	30	4.82	3.68	7
OOLOGAH	6729	3	45.2	19	*****	74	6	21	27	375.5	*****	0	*****	6.423	19	*****	2.82	7
PAWHUSKA	6935	3	44.5	30	-4.1	73	5	20	26	615	123	0	0	5.833	30	3.01	3.19	17
PAWNEE	6940	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.560	30	3.03	3.7	17
PRYOR	7309	3	44.0	30	-3.9	76	6	21	28	631	118	0	0	7.972	30	4.35	2.85	7
RALSTON	7390	3	45.2	30	-3.9	76	5	22	28	594.5	117.5	0	0	4.756	30	2.22	2.5	17
SKIATOOK	8258	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.010	30	3.97	2.87	7
SPAVINAW	8380	3	47.1	30	-4.2	75	5	21	26	538	123	0	0	8.615	30	4.88	3.03	7
TULSA	8992	3	44.9	30	-5	75	5	21	27	602	149	0	0	7.215	30	4.08	3.49	6
UPPER SPAV	9101	3	43.7	30	*****	74	5	21	28	640.5	*****	0	*****	6.342	30	*****	2.2	7
VINITA	9203	3	43.3	30	-5.2	75	5	20	26	650.5	155.5	0	0	7.400	30	3.57	2.71	7
WAGONER	9247	3	46.7	30	-4.3	75	5	21	26	548.5	123.5	0	0	7.931	30	4.35	1.81	17
WANN	9298	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.001	29	*****	2.5	17
WYNONA	9792	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.613	30	*****	2.98	17

NOVEMBER 1996 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	44.4	27	*****	75	7	19	26	557	*****	0	*****	2.800	29	*****	1.25	17
CLINTON	1909	4	45.7	28	*****	74	5	19	25	541	*****	0	*****	2.424	29	*****	1.11	17
COLONY	2039	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.010	30	*****	2.1	17
CORDELL	2125	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.441	30	-0.31	0.65	29
ELK CITY	2849	4	46.3	30	-2.3	75	4	19	25	561	69	0	0	3.300	30	1.65	1.23	29
ERICK	2944	4	46.8	30	-2.1	78	5	19	27	545.5	62.5	0	0	2.071	30	0.74	0.68	17
GEARY	3497	4	48.2	29	-0.3	76	5	27	25	488	-7	0	0	1.800	29	*****	1.53	17
HAMMON	3871	4	43.3	30	-3.1	76	6	16	28	651.5	93.5	0	0	3.220	30	1.6	1.51	16
LEEDEY	5090	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.800	30	1.25	1.31	16
MACKIE	5463	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.050	30	*****	0.7	17
MORAVIA	6035	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.530	30	2.15	1.76	17
OKEENE	6629	4	44.6	30	-4.7	76	5	20	27	611.5	140.5	0	0	1.650	30	-0.3	0.93	17
RETROP	7565	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.680	30	*****	1.1	29
REYDON	7579	4	46.1	30	-1.5	78	21	16	26	567	45	0	0	1.400	30	0.25	0.8	17
SAYRE	7952	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.080	30	1.73	1.34	16
SWEETWATER	8652	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.890	30	*****	0.93	17
TALOGA	8708	4	44.0	30	-3.4	75	5	18	27	629.5	101.5	0	0	2.472	30	0.67	0.97	17
THOMAS	8815	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.630	30	*****	1.55	18
VICI	9172	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.650	30	0.06	0.8	17
WATONGA	9364	4	45.1	30	-3.3	76	5	20	27	598	100	0	0	2.486	30	0.68	1.62	17
WEATHERFORD	9422	4	45.0	29	-2.7	75	5	20	25	579.5	60.5	0	0	2.050	29	*****	0.85	16

NOVEMBER 1996 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	*****	*****	*****	*****	3.840	30	*****	1.22	17
ARCADIA	288	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.234	30	*****	1.4	7
BLANCHARD	830	5	48.5	30	-2.7	77	5	22	27	494.5	80.5	0	0	5.323	30	3.22	2.23	7
BRISTOW	1144	5	47.0	30	-3.5	76	5	21	27	540	100	0	-5	8.362	30	5.47	3.82	7
CHANDLER	1684	5	48.5	24	*****	78	5	20	27	395	*****	0	*****	6.971	26	*****	3.75	7
CHICKASHA	1750	5	48.2	30	-2.6	75	5	20	27	503.5	77.5	0	0	2.670	30	0.72	0.99	29
COX CITY	2196	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.650	30	*****	1.91	7
CRESCENT	2242	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.890	30	*****	1.25	17
CUSHING	2318	5	44.9	27	*****	76	6	21	27	541.5	*****	0	*****	5.902	28	*****	2.1	7
EDMOND	2788	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.850	27	*****	0.85	6
EL RENO	2818	5	47.3	30	-1.7	75	5	20	27	532.5	49.5	0	0	2.813	30	1.06	1.19	17
GUTHRIE	3821	5	45.6	28	*****	80	5	15	27	545	*****	1	*****	4.164	28	*****	2.1	29
HENNESSEY	4055	5	44.1	20	*****	71	5	22	26	418	*****	0	*****	1.981	25	*****	1.15	17
INGALLS	4489	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.503	30	*****	1.5	17
KINGFISHER	4861	5	45.4	30	-4.2	76	5	19	27	587.5	125.5	0	0	3.110	30	1.2	2.35	17
KONAWA	4915	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.530	30	1.8	1.5	23
MARSHALL	5589	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.990	30	1.08	2.12	17
MEEKER	5779	5	47.4	29	-3	77	5	20	27	509	71	0	0	5.342	29	****	4.01	6
MULHALL	6110	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.310	30	*****	0.86	17
NORMAN NWS	6386	5	46.0	30	-5.1	75	5	22	27	570	153	0	0	4.613	30	2.13	2.22	6
OILTON	6616	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.970	30	*****	3.72	7
OKMAH	6638	5	49.3	30	-1.9	77	5	25	27	470	56	0	0	5.531	30	2.59	1.51	17
OKLAHOMA CTY	6661	5	46.3	30	-3.3	76	5	21	27	562.5	100.5	0	0	3.374	30	1.39	1.64	6
PERKINS	7003	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.780	30	1.34	1.43	17
PIEDMONT	7068	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.100	30	*****	1.4	17
PRAGUE	7264	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.420	30	2.75	2.15	7
PURCELL	7327	5	48.8	30	-2.1	77	5	20	27	485.5	62.5	0	0	5.892	30	3.39	1.9	7
SEMINOLE	8042	5	48.2	30	-4.1	76	5	22	27	505	120	0	0	3.971	29	*****	0.94	30
SHAWNEE	8110	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.354	30	3.46	2.22	17
STELLA	8479	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.683	30	*****	3.7	6
STILLWATER	8501	5	45.7	30	-2.8	78	6	21	27	579.5	84.5	0	0	1.791	30	-0.46	0.96	17
STROUD	8563	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	8.272	30	*****	3.65	7
TROUSDALE	8960	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.570	30	*****	1.11	1
UNION CITY	9086	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.891	30	0.59	1.03	17
WELTY	9479	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.394	30	*****	2.18	7
WEWOKA	9575	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.770	30	2.98	2.18	17

NOVEMBER 1996 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	*****	*****	*****	*****	10.451	30	*****	3.1	24
BEGGS	631	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.840	30	*****	1.72	6
BOYNTON	1027	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.291	30	*****	1.65	24
CALVIN	1391	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.750	30	-0.22	1.95	17
CHECOTAH	1711	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	8.244	30	4.93	3.1	17
CLAYTON	1858	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	11.890	30	*****	3.89	7
DEWAR	2485	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.741	30	2.64	1.22	17
DUSTIN	2690	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.821	30	*****	1.5	25
EUFAULA	2993	6	48.2	30	-4.5	74	6	24	27	505	131	0	-5	11.150	30	7.71	4.85	7
HANNA	3884	6	47.5	30	-4.2	77	5	22	27	525.5	126.5	0	0	9.802	30	6.34	2.43	17
HARTSHORNE	3946	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	8.070	30	*****	2.25	25
HASKELL	3956	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.160	30	3.67	1.7	7
HOLDENVILLE	4235	6	48.7	20	*****	77	5	24	26	325.5	*****	0	*****	5.820	25	*****	2.16	1
LAKE EUFAULA	4975	6	45.5	28	*****	77	7	23	27	547.5	*****	1	*****	10.881	28	*****	3.4	7
LYONS	5437	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	10.680	30	6.91	3.5	7
MCALESTER	5664	6	47.2	18	*****	77	6	24	27	324	*****	3.5	*****	1.395	19	*****	0.74	16
MCCURTAIN	5693	6	48.9	30	-3.8	81	6	22	3	501.5	126.5	19	13	12.905	30	8.55	4.14	7
MUSKOGEE	6130	6	46.7	30	-4.3	76	5	23	26	550.5	123.5	0	0	4.820	30	1.27	1.41	23
OKMULGEE	6670	6	44.4	28	*****	78	6	21	29	578.5	*****	2.5	*****	6.101	29	*****	1.5	17
OKTAHA	6678	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.162	30	*****	1.86	24
QUINTON	7372	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	9.756	30	6.02	4.44	24
SALLISAW	7862	6	44.5	30	-7	75	7	25	27	613.5	211.5	0	0	12.090	30	7.98	3.55	7
SCIPIO	7979	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	8.970	30	*****	2.3	24
SCRAPER	7993	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.900	30	*****	2.2	7
SHORT	8170	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	13.270	30	*****	4.2	7
STILWELL	8506	6	45.5	30	-4.5	73	5	19	26	586	136	0.5	0.5	12.420	30	8.64	3.26	7
TAHLEQUAH	8677	6	45.7	30	-4.5	74	5	20	26	578.5	129.5	0	-5	9.020	30	5.44	1.97	17
WEBBERS FALL	9445	6	45.5	30	-4.7	78	7	22	27	586	142	0	0	12.340	30	8.97	3.85	7
WETUMKA	9571	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.110	30	1.9	1.28	17

NOVEMBER 1996 SUMMARY FOR SOUTHWEST DIVISION (CD7)

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					DEG	NORM	DEG	NORM	DEG	NORM				FROM	NORM
ALTUS	179	7	50.7	30	-1.4	79	5	23	27	435	48	6	6	1.420	30	0.11	0.82	29			
ALTUS DAM	184	7	48.7	30	-0.9	79	6	22	25	493	31	4.5	4.5	1.820	30	0.46	0.85	29			
APACHE	260	7	****	0	****	****	0	****	0	*****	*****	*****	*****	2.350	30	0.54	1.11	17			
ALTUS AFB	447	7	****	0	****	****	0	****	0	*****	*****	*****	*****	1.117	29	****	0.56	29			
CARNEGIE	1504	7	47.0	26	****	76	5	20	27	468.5	*****	0	*****	0.142	25	****	0.14	3			
CHATTANOOGA	1706	7	51.0	30	-0.5	80	5	24	27	419.5	17.5	1	1	2.530	30	0.99	0.99	29			
DUNCAN 11 W	2668	7	****	0	****	****	0	****	0	*****	*****	*****	*****	3.250	29	****	1.5	7			
FREDERICK	3353	7	49.0	30	-1.7	77	6	19	25	482	53	2	2	1.972	30	0.37	1.1	29			
HEADRICK	3998	7	****	0	****	****	0	****	0	*****	*****	*****	*****	1.780	30	****	0.7	28			
HOBART	4204	7	45.8	21	****	76	5	22	25	404	*****	0	*****	0.830	23	****	0.64	16			
HOLLIS	4249	7	47.2	30	-3.4	79	5	21	27	534	102	0	0	2.220	30	1.11	1.31	29			
LAWTON	5063	7	46.4	27	****	72	17	24	25	501.5	*****	0	*****	2.490	28	****	1	29			
FORT SILL	5068	7	48.4	29	****	77	5	23	25	482	*****	0	*****	1.528	30	****	0.69	29			
LOOKEBA	5329	7	****	0	****	****	0	****	0	*****	*****	*****	*****	1.881	30	0.09	0.62	17			
MANGUM	5509	7	49.1	30	-1.7	82	5	21	27	477	51	0	0	1.170	30	-0.09	1	29			
RANDLETT	7403	7	****	0	****	****	0	****	0	*****	*****	*****	*****	4.280	30	****	1.1	24			
ROOSEVELT	7727	7	****	0	****	****	0	****	0	*****	*****	*****	*****	1.950	30	0.47	0.7	29			
SEDAN	8016	7	****	0	****	****	0	****	0	*****	*****	*****	*****	1.480	30	****	0.55	29			
SNYDER	8299	7	****	0	****	****	0	****	0	*****	*****	*****	*****	2.442	30	0.9	1	1			
VINSON	9212	7	****	0	****	****	0	****	0	*****	*****	*****	*****	3.270	30	2.05	1.07	29			
WALTERS	9278	7	50.0	30	-2.4	78	5	24	27	451	68	0.5	0.5	3.770	30	1.68	0.96	29			
WICHITA MT	9629	7	48.2	25	****	76	7	21	25	421	*****	0	*****	2.430	27	****	0.98	17			
WILLOW	9668	7	****	0	****	****	0	****	0	*****	*****	*****	*****	3.125	30	****	1.35	17			

NOVEMBER 1996 SUMMARY FOR SOUTH CENTRAL DIVISION (CD8)

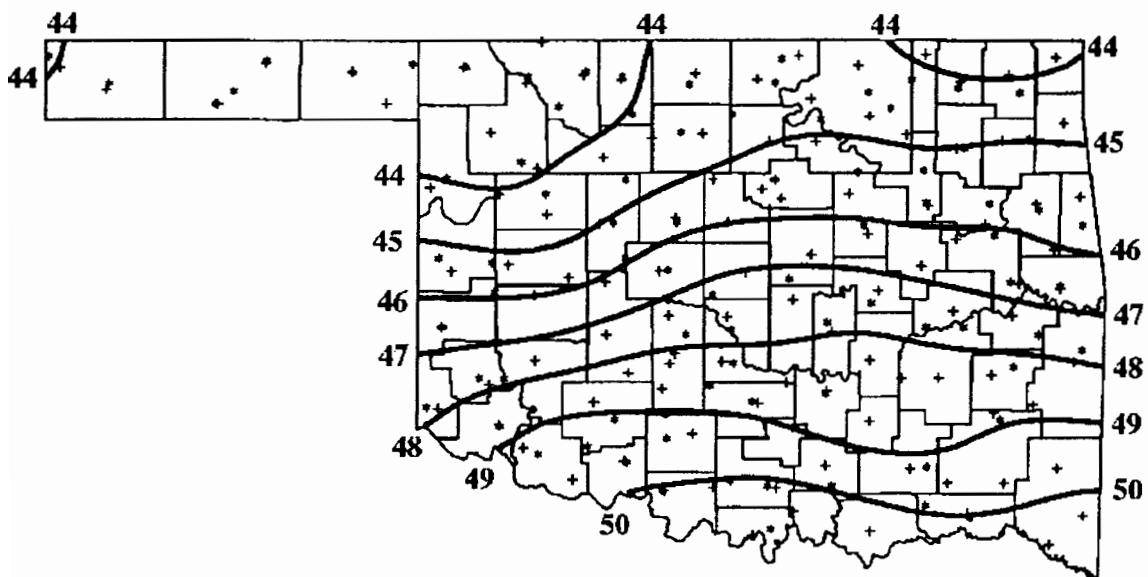
NAME	ID	CD	MEAN TEMP	NUM OBS	DEV		MAX TEMP	DAY	MIN TEMP	DAY	HEAT		DEV		COOL		DEV	TOT PPT	NUM OBS	DEV	
					FROM	NORM					DEG	NORM	DEG	NORM	DEG	NORM				FROM	NORM
ADA	17	8	47.8	30	-4.3	77	5	22	27	516	123	0	-6	5.690	30	2.89	1.28	17			
ALLEN	147	8	****	0	****	****	0	****	0	*****	*****	*****	*****	8.050	30	****	4	16			
ARDMORE	292	8	51.0	30	-3.5	77	6	25	27	426	104	5.5	-1.5	6.690	30	4.26	2.5	25			
ATOKA DAM	394	8	50.3	18	****	79	6	21	25	268.5	*****	3.5	*****	6.411	18	****	2.5	7			
BOKCHITO	917	8	****	0	****	****	0	****	0	*****	*****	*****	*****	6.041	30	****	4	24			
CENTRAHOMA	1648	8	****	0	****	****	0	****	0	*****	*****	*****	*****	8.050	30	****	2	24			
CHICKASAW	1745	8	48.3	28	****	77	6	24	27	468	*****	0.5	*****	6.020	30	3.35	1.86	24			
COLEMAN	2011	8	****	0	****	****	0	****	0	*****	*****	*****	*****	8.100	30	****	2.6	23			
COMANCHE	2054	8	****	0	****	****	0	****	0	*****	*****	*****	*****	7.430	30	5.35	2.55	24			
DAISY	2354	8	****	0	****	****	0	****	0	*****	*****	*****	*****	10.433	30	6.43	3.97	7			
DUNCAN	2660	8	48.5	30	-2.9	77	6	24	25	493.5	81.5	0	0	6.270	30	4.12	1.6	7			
ELMORE CITY	2872	8	****	0	****	****	0	****	0	*****	*****	*****	*****	5.950	30	****	1.54	17			
GRADY	3688	8	****	0	****	****	0	****	0	*****	*****	*****	*****	4.330	29	****	1.6	7			
HEALDTON	4001	8	49.4	30	-2.9	78	5	23	27	468	82	0	0	4.901	30	2.64	1.29	24			
HENNEPIN	4052	8	****	0	****	****	0	****	0	*****	*****	*****	*****	5.291	30	****	2.12	17			
KETCHUM RAN	4780	8	****	0	****	****	0	****	0	*****	*****	*****	*****	4.940	30	****	1.72	24			
KINGSTON	4865	8	****	0	****	****	0	****	0	*****	*****	*****	*****	8.370	29	****	3.17	23			
LEHIGH	5108	8	****	0	****	****	0	****	0	*****	*****	*****	*****	9.457	30	****	2	7			
LINDSAY	5216	8	49.3	30	-2	77	5	24	27	471.5	60.5	0	0	5.802	30	3.58	2.02	7			
LOCO	5247	8	****	0	****	****	0	****	0	*****	*****	*****	*****	5.000	30	****	1.41	17			
MADILL	5468	8	48.8	27	****	76	5	22	27	438	*****	0.5	*****	7.020	30	4.22	2.52	23			
MARIETTA	5563	8	51.6	30	-2	78	6	25	26	403.5	54.5	2	-5	6.370	30	3.77	2.15	7			
MARLOW	5581	8	49.2	30	-2.3	78	5	21	26	475.5	70.5	0	0	5.590	30	3.45	2.1	7			
MCGEE CREEK	5713	8	47.5	30	****	78	6	24	27	525	*****	1	*****	12.060	30	****	3.95	7			
PAULS VALLEY	6926	8	49.3	30	-2.8	79	5	19	25	470.5	78.5	0	0	5.880	30	3.35	1.35	17			
PONTOTOC	7214	8	****	0	****	****	0	****	0	*****	*****	*****	*****	7.231	30	4.27	2.34	23			
TISHOMINGO	8884	8	49.3	29	-4	78	5	26	28	460	104	5.5	5.5	6.630	30	3.61	2	25			
TUSSY	9032	8	****	0	****	****	0	****	0	*****	*****	*****	*****	5.521	30	****	1.42	17			
WAURIKA	9395	8	51.1	30	-2	78	5	25	25	420.5	57.5	4.5	-1.5	9.532	30	7.71	4.62	12			
WAURIKA DAM	9399	8	53.7	15	****	81	6	27	26	171.5	*****	1.5	*****	7.001	30	****	3.97	23			

NOVEMBER 1996 SUMMARY FOR SOUTHEAST DIVISION (CD9)

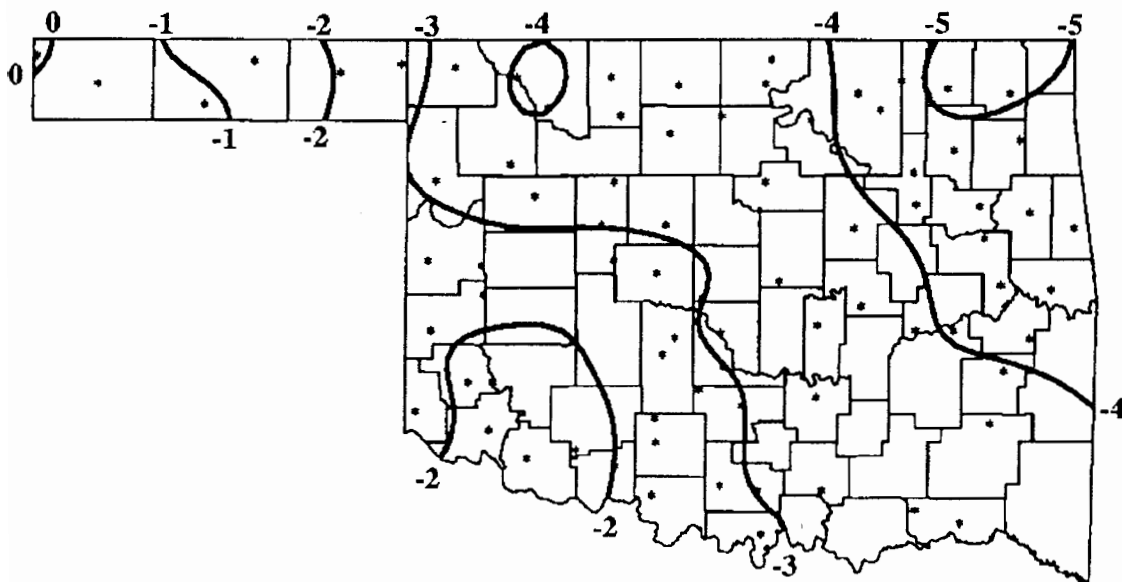
NAME	ID	CD	MEAN TEMP	NUM OBS	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
ANTLERS	256	9	52.8	23	*****	77	5	29	3	282.5	*****	2.5	*****	*****	0	*****	*****	0
BATTIEST	567	9	46.0	30	*****	70	7	23	28	568.5	*****	0	*****	13.021	30	*****	3.15	7
BEAR MT	584	9	48.8	25	*****	75	2	26	27	404.5	*****	0	*****	10.340	28	*****	2.9	7
BENGAL	670	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	14.991	30	*****	4.16	7
BOSWELL	980	9	49.9	29	-3.4	77	5	26	30	441	82	2.5	-5.5	11.120	29	*****	4	7
BROKEN BOW	1162	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	10.060	30	5.82	2.82	7
BROKEN BOW D	1168	9	48.4	30	-3.9	76	6	23	27	497.5	116.5	0	0	10.051	30	5.58	2.92	6
CARNASAW	1499	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	9.920	30	5.44	3.02	7
CARTER TWR	1544	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	8.280	30	4	3.25	6
FANSHAWE	3065	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	13.622	30	9.11	3.65	7
HEAVENER	4008	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	10.492	30	6.2	3.46	6
HUGO	4384	9	51.3	29	-3	78	5	27	25	403	73	5	-4	9.250	30	5.3	2.2	8
IDABEL	4451	9	48.2	30	-4.3	75	7	24	28	503	123	0	-5	9.993	30	5.89	2.13	25
PINE CREEK	7080	9	48.0	20	*****	74	7	23	29	341	*****	0	*****	8.141	22	*****	2.91	7
POTEAU	7254	9	47.3	30	*****	78	6	26	28	532	*****	0	*****	8.632	30	*****	2.5	23
SMITHVILLE	8285	9	46.3	30	-4.5	74	6	24	27	562.5	136.5	1	1	11.008	30	6.63	3.25	24
SPIRO	8416	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	13.620	30	9.2	4.87	7
TUSKAHOMA	9023	9	50.1	30	-2.8	75	5	23	27	452.5	83.5	6	0	12.101	30	7.97	3.57	7
VALLIANT	9118	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	10.190	30	6.03	3.51	7
WILBURTON	9634	9	47.9	30	-3.4	79	6	23	27	519.5	104.5	6	6	10.040	30	5.75	3.62	6
ZOE	9985	9	46.4	28	*****	72	7	24	27	522	*****	0	*****	16.351	28	*****	4.55	7

NOVEMBER 1996 CLIMATE DIVISION SUMMARY

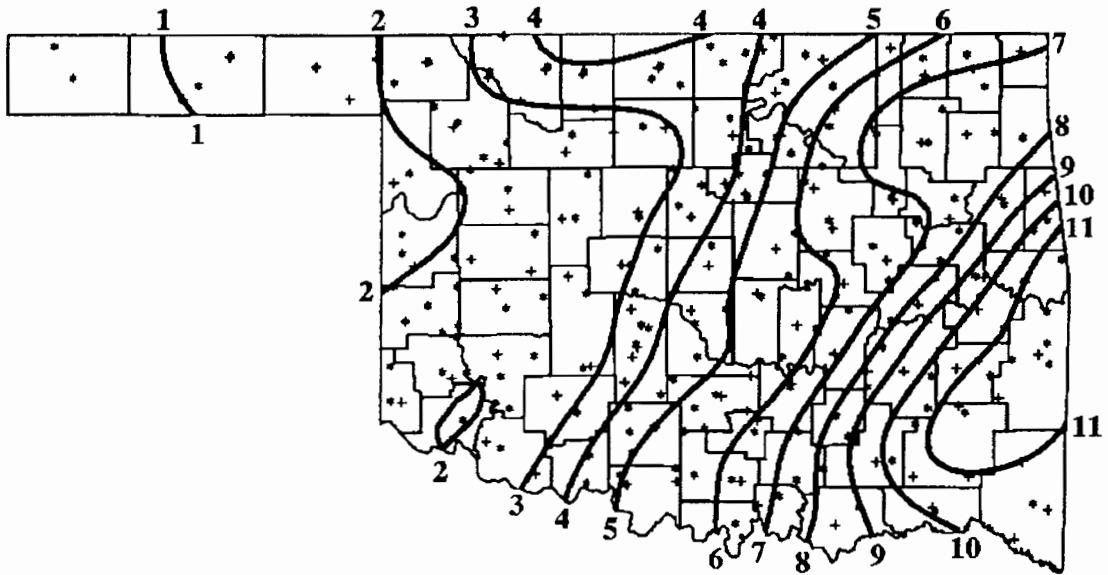
CD	MEAN TEMP	NUM STA	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEGREE DAYS	DEV FROM NORM	COOL DEGREE DAYS	DEV FROM NORM	TOT PPT	NUM STA	DEV FROM NORM	MAX 24-HR
1	43.2	9	-1.9	82	19	12	25	648.6	50.9	0.1	0.1	1.500	10	0.49	2.6
2	43.7	11	-3.7	79	6	13	26	636.9	109.9	0	0	3.240	21	1.38	4
3	44.4	15	-4.7	77	6	15	27	616.8	139.8	0	0	6.700	26	3.62	4.15
4	45.5	9	-2.8	78	21	16	26	581.3	78.7	0	0	2.370	17	0.75	2.1
5	47.3	12	-3	80	5	15	27	528.3	88.6	0	-0.3	4.640	29	2.24	4.01
6	46.6	8	-4.6	81	6	19	26	555.8	139	2.4	0.3	8.590	25	5.09	4.85
7	49.3	8	-1.5	82	5	19	25	471.7	42.8	1.8	1.8	2.290	17	0.74	1.5
8	49.5	11	-3	81	6	19	25	466.4	85.3	1.7	-1.3	6.920	27	4.31	4.62
9	48.4	9	-4	79	6	23	27	497.7	113.6	2.3	-1.9	10.950	16	6.76	4.87



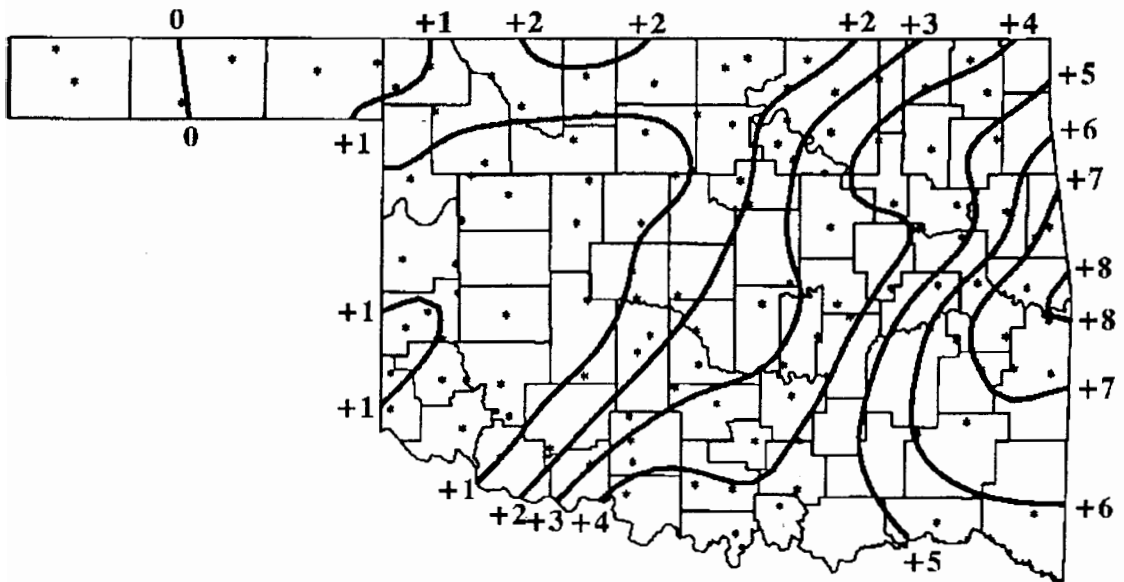
NOVEMBER 1996 AVERAGE MONTHLY TEMPERATURE
(DEGREES F)



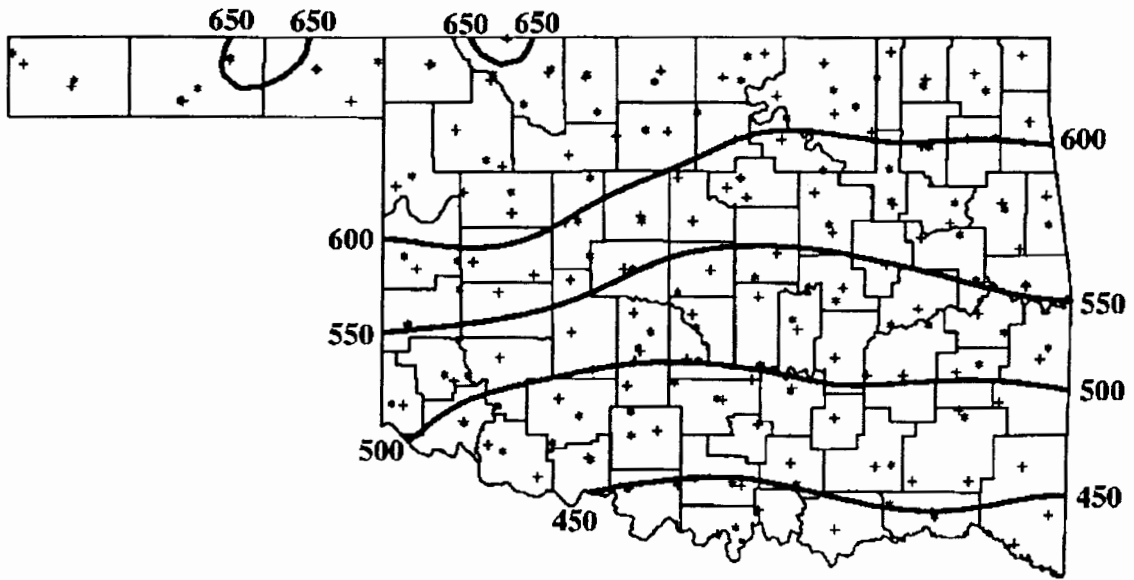
NOVEMBER 1996 DEVIATION FROM NORMAL TEMPERATURES
(DEGREES F)



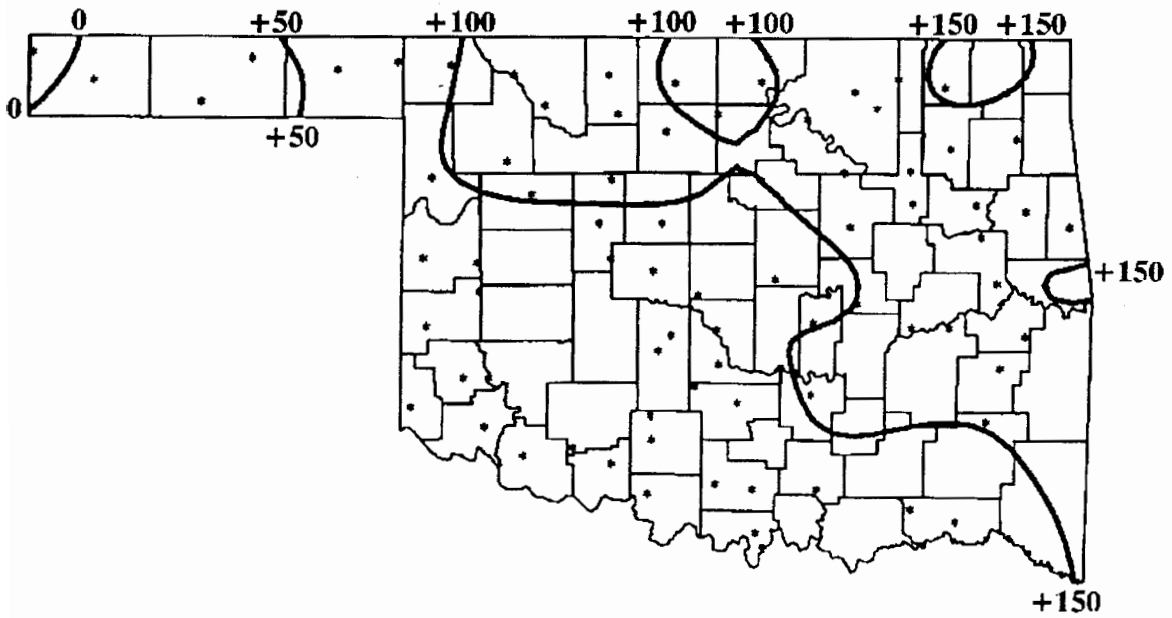
NOVEMBER 1996 TOTAL PRECIPITATION
(INCHES)



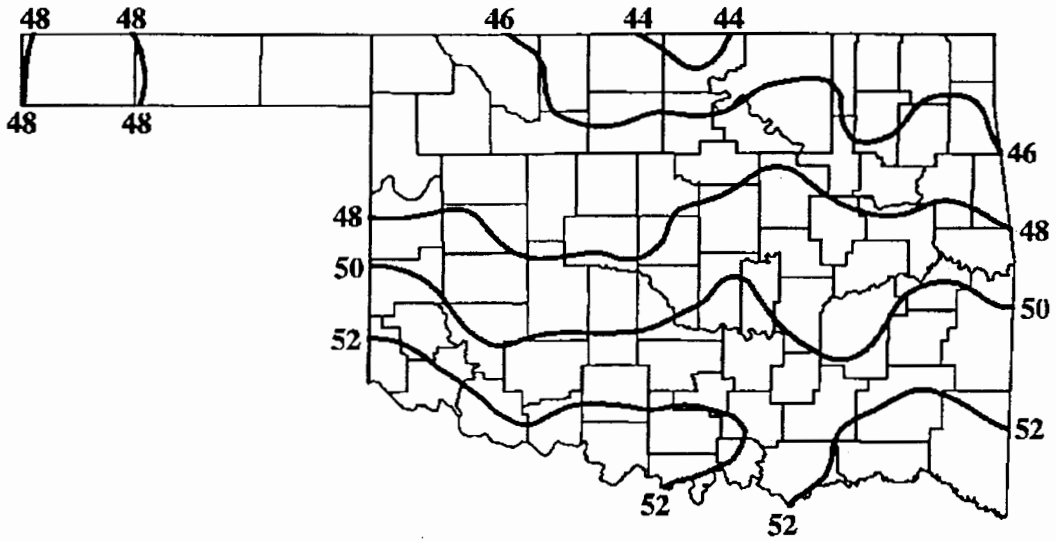
NOVEMBER 1996 DEVIATION FROM NORMAL PRECIPITATION
(INCHES)



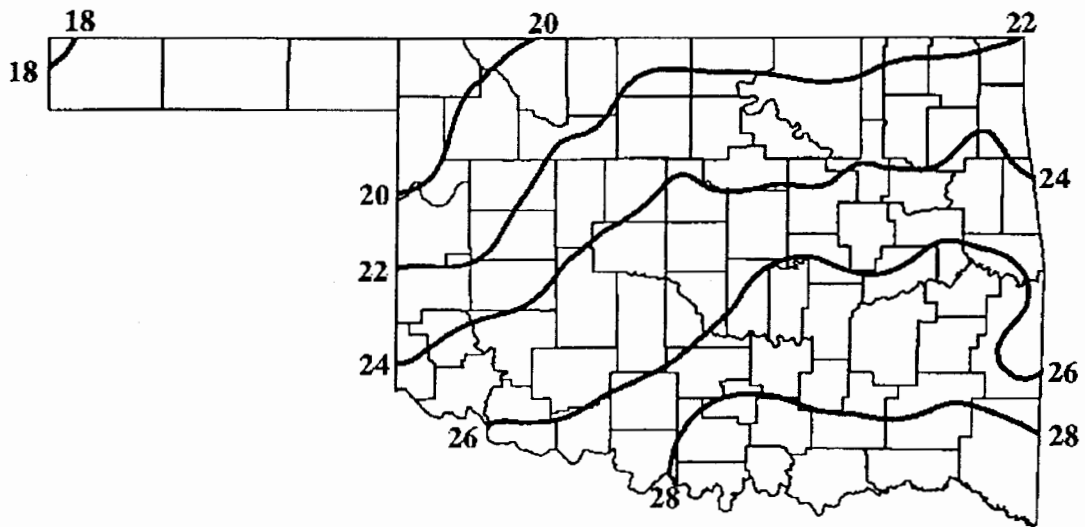
NOVEMBER 1996 HEATING DEGREE DAYS



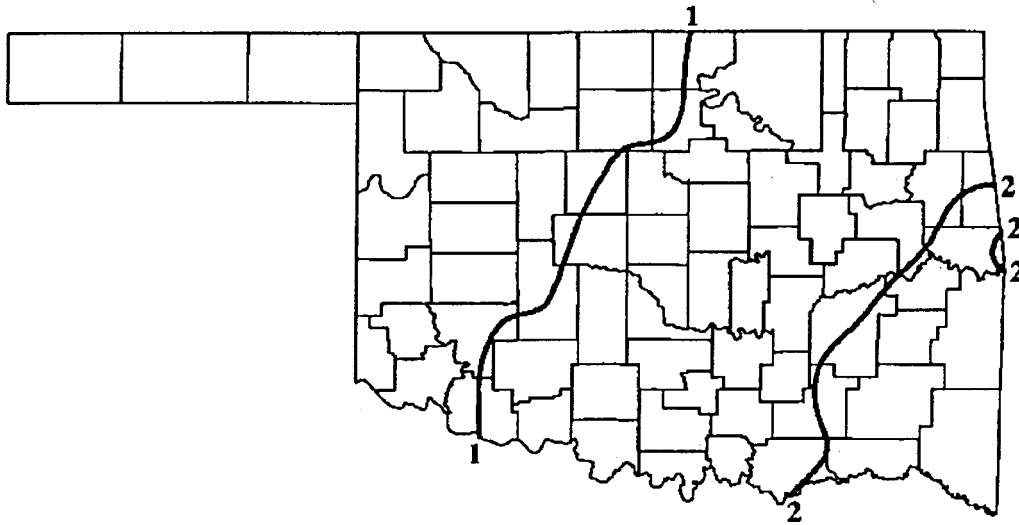
NOVEMBER 1996 DEVIATION FROM NORMAL HEATING DEGREE DAYS



JANUARY NORMAL DAILY MAXIMUM TEMPERATURE (°F)



JANUARY NORMAL DAILY MINIMUM TEMPERATURE (°F)



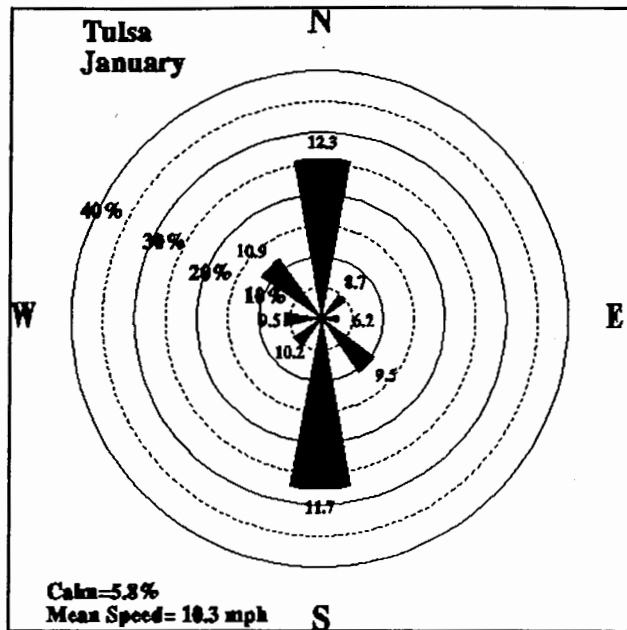
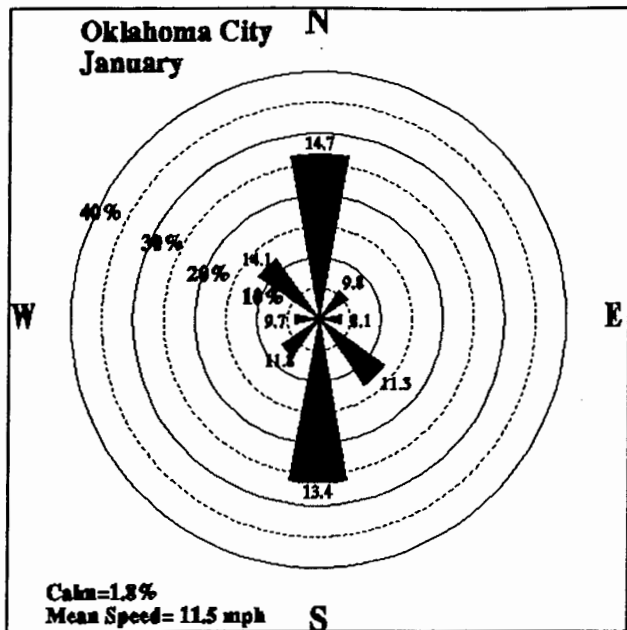
JANUARY NORMAL MONTHLY PRECIPITATION (inches)

OUTLOOK FOR JANUARY THROUGH MARCH 1997

BASED ON SEASONAL OUTLOOKS PROVIDED BY THE CLIMATE PREDICTION CENTER

TEMPERATURE: Near Normal Statewide

PRECIPITATION: Near Normal Statewide



January Wind Roses for Oklahoma City and Tulsa. The frequency (per cent) 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.

JANUARY 1997 SUNRISE AND SUNSET

OKLAHOMA CITY

DATE	SUNRISE	SUNSET	DAYLIGHT
97 1 1	7:38AM	5:30PM CST	9 hrs 53 mins
97 1 2	7:38AM	5:31PM CST	9 hrs 53 mins
97 1 3	7:38AM	5:31PM CST	9 hrs 54 mins
97 1 4	7:38AM	5:32PM CST	9 hrs 54 mins
97 1 5	7:38AM	5:33PM CST	9 hrs 55 mins
97 1 6	7:38AM	5:34PM CST	9 hrs 56 mins
97 1 7	7:38AM	5:35PM CST	9 hrs 56 mins
97 1 8	7:38AM	5:35PM CST	9 hrs 57 mins
97 1 9	7:38AM	5:36PM CST	9 hrs 58 mins
97 1 10	7:38AM	5:37PM CST	9 hrs 59 mins
97 1 11	7:38AM	5:38PM CST	10 hrs 0 mins
97 1 12	7:38AM	5:39PM CST	10 hrs 1 mins
97 1 13	7:38AM	5:40PM CST	10 hrs 2 mins
97 1 14	7:38AM	5:40PM CST	10 hrs 3 mins
97 1 15	7:38AM	5:41PM CST	10 hrs 4 mins
97 1 16	7:37AM	5:42PM CST	10 hrs 5 mins
97 1 17	7:37AM	5:43PM CST	10 hrs 6 mins
97 1 18	7:37AM	5:44PM CST	10 hrs 7 mins
97 1 19	7:37AM	5:45PM CST	10 hrs 8 mins
97 1 20	7:36AM	5:46PM CST	10 hrs 10 mins
97 1 21	7:36AM	5:47PM CST	10 hrs 11 mins
97 1 22	7:35AM	5:48PM CST	10 hrs 12 mins
97 1 23	7:35AM	5:49PM CST	10 hrs 14 mins
97 1 24	7:35AM	5:50PM CST	10 hrs 15 mins
97 1 25	7:34AM	5:51PM CST	10 hrs 17 mins
97 1 26	7:34AM	5:52PM CST	10 hrs 18 mins
97 1 27	7:33AM	5:53PM CST	10 hrs 20 mins
97 1 28	7:32AM	5:54PM CST	10 hrs 21 mins
97 1 29	7:32AM	5:55PM CST	10 hrs 23 mins
97 1 30	7:31AM	5:56PM CST	10 hrs 24 mins
97 1 31	7:31AM	5:57PM CST	10 hrs 26 mins

TULSA

DATE	SUNRISE	SUNSET	DAYLIGHT
96 1 1	7:33AM	5:21PM CST	9 hrs 49 mins
96 1 2	7:33AM	5:22PM CST	9 hrs 49 mins
96 1 3	7:33AM	5:23PM CST	9 hrs 50 mins
96 1 4	7:33AM	5:23PM CST	9 hrs 50 mins
96 1 5	7:33AM	5:24PM CST	9 hrs 51 mins
96 1 6	7:33AM	5:25PM CST	9 hrs 52 mins
96 1 7	7:33AM	5:26PM CST	9 hrs 52 mins
96 1 8	7:33AM	5:27PM CST	9 hrs 53 mins
96 1 9	7:33AM	5:27PM CST	9 hrs 54 mins
96 1 10	7:33AM	5:28PM CST	9 hrs 55 mins
96 1 11	7:33AM	5:29PM CST	9 hrs 56 mins
96 1 12	7:33AM	5:30PM CST	9 hrs 57 mins
96 1 13	7:33AM	5:31PM CST	9 hrs 58 mins
96 1 14	7:33AM	5:32PM CST	9 hrs 59 mins
96 1 15	7:33AM	5:33PM CST	10 hrs 0 mins
96 1 16	7:32AM	5:34PM CST	10 hrs 1 mins
96 1 17	7:32AM	5:35PM CST	10 hrs 2 mins
96 1 18	7:32AM	5:35PM CST	10 hrs 4 mins
96 1 19	7:31AM	5:36PM CST	10 hrs 5 mins
96 1 20	7:31AM	5:37PM CST	10 hrs 6 mins
96 1 21	7:31AM	5:38PM CST	10 hrs 8 mins
96 1 22	7:30AM	5:39PM CST	10 hrs 9 mins
96 1 23	7:30AM	5:40PM CST	10 hrs 10 mins
96 1 24	7:29AM	5:41PM CST	10 hrs 12 mins
96 1 25	7:29AM	5:42PM CST	10 hrs 13 mins
96 1 26	7:28AM	5:43PM CST	10 hrs 15 mins
96 1 27	7:28AM	5:44PM CST	10 hrs 17 mins
96 1 28	7:27AM	5:45PM CST	10 hrs 18 mins
96 1 29	7:27AM	5:46PM CST	10 hrs 20 mins
96 1 30	7:26AM	5:47PM CST	10 hrs 21 mins
96 1 31	7:25AM	5:48PM CST	10 hrs 23 mins

TULSA CLIMATE CALENDAR

JANUARY 1997

The data on this calendar are for Tulsa. Normal values are calculated for the period 1948 - 1991. Temperature extremes are for the period 1905 - 1992; precipitation extremes are for the period 1948 - 1992.

Normal	1 Actual	Normal	2 Actual	Normal	3 Actual	Normal	4 Actual	Normal	5 Actual	Normal	6 Actual	Normal	7 Actual
46.0 26.0 0.3 28 0 Cdd	47.0 27.0 0.06 28 0 Cdd	48.0 24.0 0.11 30 0 Cdd	44.0 25.0 0.03 30 0 Cdd	46.0 25.0 0.02 29 0 Cdd	45.0 25.0 0.10 29 0 Cdd	44.0 25.0 0.10 29 0 Cdd	46.0 25.0 0.02 29 0 Cdd	43.0 25.0 0.07 31 0 Cdd	43.0 25.0 0.07 31 0 Cdd	47.0 24.0 0.05 27 0 Cdd	48.0 27.0 0.05 27 0 Cdd	45.0 25.0 0.01 29 0 Cdd	44.0 24.0 0.01 31 0 Cdd
High Max 75-1910 Low Max 13-1974 Low Min 0-1928 High Min 63-1906 Greatest ppt .60-1906	High Max 72-1930 Low Max 25-1979 Low Min 2-1911 High Min 65-1906 Greatest ppt .90-1961	High Max 71-1925 Low Max 14-1959 Low Min -2-1919 High Min 62-1905 Greatest ppt 1-12-1971	High Max 70-1906 Low Max 12-1969 Low Min -8-1947 High Min 60-1906 Greatest ppt .62-1963	High Max 73-1984 Low Max 19-1987 Low Min -7-1947 High Min 46-1982 Greatest ppt .60-1982	High Max 65-1907 Low Max 20-1979 Low Min 0-1912 High Min 47-1906 Greatest ppt .01-1999	High Max 62-1907 Low Max 15-1968 Low Min -5-1912 High Min 45-1905 Greatest ppt .17-1973	High Max 75-1910 Low Max 13-1974 Low Min 0-1928 High Min 63-1906 Greatest ppt .60-1906	High Max 72-1930 Low Max 25-1979 Low Min 2-1911 High Min 65-1906 Greatest ppt .90-1961	High Max 71-1925 Low Max 14-1959 Low Min -2-1919 High Min 62-1905 Greatest ppt 1-12-1971	High Max 70-1906 Low Max 12-1969 Low Min -8-1947 High Min 60-1906 Greatest ppt .62-1963	High Max 73-1984 Low Max 19-1987 Low Min -7-1947 High Min 46-1982 Greatest ppt .60-1982	High Max 65-1907 Low Max 20-1979 Low Min 0-1912 High Min 47-1906 Greatest ppt .01-1999	High Max 62-1907 Low Max 15-1968 Low Min -5-1912 High Min 45-1905 Greatest ppt .17-1973
Normal 8 Actual	Normal 9 Actual	Normal 10 Actual	Normal 11 Actual	Normal 12 Actual	Normal 13 Actual	Normal 14 Actual	Normal 15 Actual	Normal 16 Actual	Normal 17 Actual	Normal 18 Actual	Normal 19 Actual	Normal 20 Actual	Normal 21 Actual
47.0 24.0 0.03 29 0 Cdd	44.0 22.0 0.06 31 0 Cdd	42.0 22.0 0.02 33 0 Cdd	44.0 22.0 0.01 32 0 Cdd	45.0 25.0 0.02 30 0 Cdd	47.0 25.0 0.02 29 0 Cdd	48.0 25.0 0.07 28 0 Cdd	44.0 25.0 0.04 30 0 Cdd	44.0 25.0 0.03 31 0 Cdd	44.0 25.0 0.04 30 0 Cdd	44.0 25.0 0.10 29 0 Cdd	43.0 26.0 0.08 31 0 Cdd	44.0 25.0 0.04 30 0 Cdd	45.0 26.0 0.07 29 0 Cdd
High Max 71-1923 Low Max 17-1970 Low Min -3-1988 High Min 46-1964 Greatest ppt .75-1987	High Max 69-1909 Low Max 10-1977 Low Min 0-1977 High Min 45-1900 Greatest ppt .67-1977	High Max 76-1990 Low Max 19-1902 Low Min -6-1977 High Min 46-1900 Greatest ppt .30-1948	High Max 80-1911 Low Max 21-1973 Low Min -4-1973 High Min 49-1960 Greatest ppt .17-1949	High Max 73-1980 Low Max 11-1993 Low Min -13-1918 High Min 67-1980 Greatest ppt .42-1980	High Max 75-1907 Low Max 23-1982 Low Min -12-191 High Min 51-1959 Greatest ppt .41-1961	High Max 76-1967 Low Max 16-1970 Low Min -1-1918 High Min 57-1973 Greatest ppt .55-1973	High Max 69-1909 Low Max 10-1977 Low Min 0-1977 High Min 45-1900 Greatest ppt .67-1977	High Max 76-1936 Low Max 16-1977 Low Min 1-1980 High Min 59-1900 Greatest ppt .65-1900	High Max 78-1936 Low Max 16-1977 Low Min 1-1980 High Min 59-1900 Greatest ppt .65-1900	High Max 73-1952 Low Max 11-1978 Low Min -6-1900 High Min 56-1973 Greatest ppt .46-1984	High Max 72-1961 Low Max 13-1970 Low Min -14-1980 High Min 48-1972 Greatest ppt .89-1989	High Max 77-1906 Low Max 16-1984 Low Min -6-1986 High Min 45-1973 Greatest ppt .51-1958	High Max 76-1967 Low Max 16-1970 Low Min -1-1918 High Min 57-1973 Greatest ppt .55-1973
Normal 22 Actual	Normal 23 Actual	Normal 24 Actual	Normal 25 Actual	Normal 26 Actual	Normal 27 Actual	Normal 28 Actual	Normal 29 Actual	Normal 30 Actual	Normal 31 Actual	Normal 1 Actual	Normal 2 Actual	Normal 3 Actual	Normal 4 Actual
46.0 26.0 0.07 28 0 Cdd	45.0 25.0 0.08 30 0 Cdd	50.0 26.0 0.02 27 0 Cdd	50.0 25.0 0.10 29 0 Cdd	46.0 26.0 0.06 28 0 Cdd	43.0 25.0 0.07 31 0 Cdd	47.0 24.0 0.01 29 0 Cdd	47.0 25.0 0.08 29 0 Cdd	45.0 25.0 0.10 29 0 Cdd	48.0 25.0 0.11 29 0 Cdd	46.0 26.0 0.03 28 0 Cdd	47.0 26.0 0.06 29 0 Cdd	47.0 26.0 0.08 29 0 Cdd	46.0 26.0 0.03 28 0 Cdd
High Max 78-1909 Low Max 18-1982 Low Min -16-1930 High Min 63-1906 Greatest ppt .63-1966	High Max 78-1909 Low Max 12-1933 Low Min -6-1936 High Min 64-1907 Greatest ppt 1-46-1963	High Max 79-1950 Low Max 20-1948 Low Min -4-1908 High Min 48-1994 Greatest ppt .21-1949	High Max 74-1982 Low Max 19-1949 Low Min 2-1940 High Min 49-1981 Greatest ppt 1-39-1989	High Max 71-1911 Low Max 20-1987 Low Min 1-1983 High Min 45-1984 Greatest ppt .82-1987	High Max 74-1914 Low Max 21-1948 Low Min 1-1963 High Min 52-1968 Greatest ppt .85-1968	High Max 75-1947 Low Max 14-1966 Low Min -2-1949 High Min 50-1982 Greatest ppt .99-1989	High Max 75-1947 Low Max 14-1966 Low Min -2-1949 High Min 50-1982 Greatest ppt .99-1989	High Max 74-1931 Low Max 15-1949 Low Min -6-1949 High Min 68-1987 Greatest ppt 1-79-1976	High Max 74-1931 Low Max 15-1949 Low Min -6-1949 High Min 68-1987 Greatest ppt 1-79-1976	High Max 75-1947 Low Max 14-1966 Low Min -2-1949 High Min 50-1982 Greatest ppt .99-1989	High Max 72-1930 Low Max 25-1979 Low Min 2-1911 High Min 65-1906 Greatest ppt .90-1961	High Max 71-1925 Low Max 14-1959 Low Min -2-1919 High Min 62-1905 Greatest ppt 1-12-1971	High Max 70-1906 Low Max 12-1969 Low Min -8-1947 High Min 60-1906 Greatest ppt .62-1963

JANUARY AVERAGES

TEMPERATURE : 35.3°F
 PRECIPITATION : 1.67"
 HEATING DEGREE DAYS : 912
 COOLING DEGREE DAYS : 0

OKLAHOMA CITY CLIMATE CALENDAR

JANUARY 1997

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
46.5 max 26.5 min .02 ppt 29 cdd 0	47.1 max 27.4 min -.07 ppt 28 cdd 0	45.6 max 25.0 min .05 ppt 30 cdd 0	43.8 max 26.2 min .02 ppt 31 cdd 0	46.8 max 26.5 min .06 ppt 28 cdd 0	47.8 max 25.1 min .02 ppt 29 cdd 0	44.9 max 24.2 min .01 ppt 30 cdd 0
High est Max 74-1910	High est Max 70-1904	High est Max 71-1909	High est Max 72-1927	High est Max 71-1927	High est Max 68-1921	High est Max 73-1905
Low est Max 13-1975	Low est Max 13-1911	Low est Max 10-1919	Low est Max 11-1929	Low est Max 18-1924	Low est Max 14-1909	Low est Max 15-1913
Low est Min 51-1906	Low est Min 52-1911	Low est Min 52-1922	Low est Min 7-1947	Low est Min -2-1959	Low est Min -2-1912	Low est Min -3-1912
High est Min .83-1922	High est Min 1.01-1951	High est Min 1.03-1908	High est Min 1.81-1932	High est Min 46-1946	High est Min 62-1907	High est Min 61-1907
Greatest ppt	Greatest ppt	Greatest ppt	Greatest ppt	Greatest ppt	Greatest ppt	Greatest ppt
Normal 8 Actual	Normal 9 Actual	Normal 10 Actual	Normal 11 Actual	Normal 12 Actual	Normal 13 Actual	Normal 14 Actual
46.9 max 23.5 min .09 ppt 30 cdd 0	44.8 max 23.6 min .02 ppt 31 cdd 0	42.9 max 22.7 min .02 ppt 32 cdd 0	44.1 max 22.0 min .01 ppt 32 cdd 0	46.5 max 25.1 min .09 ppt 30 cdd 0	47.0 max 25.9 min .01 ppt 29 cdd 0	48.3 max 26.3 min .02 ppt 28 cdd 0
High est Max 71-1923	High est Max 70-1902	High est Max 75-1900	High est Max 77-1911	High est Max 73-1926	High est Max 74-1904	High est Max 75-1928
Low est Max 11-1927	Low est Max 6-1977	Low est Max 13-1902	Low est Max 2-1916	Low est Max 6-1912	Low est Max 11-1905	Low est Max 12-1905
Low est Min -4-1988	Low est Min -2-1977	Low est Min -3-1977	Low est Min -7-1918	Low est Min -7-1912	Low est Min -4-1916	Low est Min -1-1905
High est Min 48-1948	High est Min 45-1908	High est Min 47-1928	High est Min 50-1908	High est Min 51-1960	High est Min 51-1952	High est Min 50-1928
Greatest ppt 1.45-1935	Greatest ppt 57-1907	Greatest ppt 56-1905	Greatest ppt 1.10-1916	Greatest ppt 78-1927	Greatest ppt 79-1992	Greatest ppt 4.6-1996
Normal 15 Actual	Normal 16 Actual	Normal 17 Actual	Normal 18 Actual	Normal 19 Actual	Normal 20 Actual	Normal 21 Actual
49.2 max 25.5 min .02 ppt 28 cdd 0	46.5 max 25.5 min .04 ppt 29 cdd 0	47.6 max 25.7 min .04 ppt 28 cdd 0	46.4 max 25.7 min .10 ppt 29 cdd 0	44.1 max 25.1 min .09 ppt 30 cdd 0	45.9 max 25.0 min .02 ppt 30 cdd 0	45.6 max 26.0 min .08 ppt 29 cdd 0
High est Max 77-1914	High est Max 76-1894	High est Max 73-1894	High est Max 74-1901	High est Max 76-1914	High est Max 80-1905	High est Max 71-1907
Low est Max 14-1930	Low est Max 11-1930	Low est Max 6-1930	Low est Max 6-1992	Low est Max 12-1902	Low est Max 16-1904	Low est Max 12-1904
Low est Min -2-1905	Low est Min 6-1980	Low est Min -6-1990	Low est Min -8-1990	Low est Min -11-1902	Low est Min 1-1905	Low est Min -3-1909
High est Min 53-1909	High est Min 57-1900	High est Min 52-1904	High est Min 48-1905	High est Min 64-1904	High est Min 54-1921	High est Min 56-1921
Greatest ppt 1.07-1932	Greatest ppt 70-1900	Greatest ppt 1.15-1925	Greatest ppt 1.07-1909	Greatest ppt 2.76-1904	Greatest ppt 1.28-1904	Greatest ppt 1.40-1932
Normal 22 Actual	Normal 23 Actual	Normal 24 Actual	Normal 25 Actual	Normal 26 Actual	Normal 27 Actual	Normal 28 Actual
47.3 max 26.3 min .03 ppt 29 cdd 0	46.8 max 25.1 min .02 ppt 29 cdd 0	50.1 max 27.2 min .02 ppt 25 cdd 0	49.2 max 27.9 min .08 ppt 26 cdd 0	46.4 max 26.5 min .03 ppt 29 cdd 0	45.8 max 25.9 min .03 ppt 29 cdd 0	47.1 max 26.0 min .02 ppt 28 cdd 0
High est Max 73-1907	High est Max 75-1909	High est Max 81-1950	High est Max 77-1902	High est Max 72-1903	High est Max 72-1914	High est Max 73-1903
Low est Max 18-1902	Low est Max 13-1903	Low est Max 8-1894	Low est Max 16-1905	Low est Max 12-1907	Low est Max 17-1901	Low est Max 21-1948
Low est Min -6-1930	Low est Min -1-1903	Low est Min -6-1894	Low est Min -3-1904	Low est Min 0-1902	Low est Min 3-1903	Low est Min 6-1948
High est Min 50-1921	High est Min 51-1907	High est Min 51-1944	High est Min 58-1944	High est Min 64-1911	High est Min 60-1914	High est Min 61-1907
Greatest ppt .39-1920	Greatest ppt 1.16-1921	Greatest ppt 57-1949	Greatest ppt 1.26-1949	Greatest ppt 1.85-1916	Greatest ppt .82-1905	Greatest ppt .44-1909
Normal 29 Actual	Normal 30 Actual	Normal 31 Actual	<p>JANUARY AVERAGES</p> <p>TEMPERATURE : 36.1°F</p> <p>PRECIPITATION : 1.20"</p> <p>HEATING DEGREE DAYS : 899</p> <p>COOLING DEGREE DAYS : 0</p>			
48.1 max 26.2 min .06 ppt 28 cdd 0	46.9 max 26.2 min .07 ppt 28 cdd 0	48.4 max 27.8 min .05 ppt 27 cdd 0				
High est Max 76-1911	High est Max 74-1917	High est Max 83-1911				
Low est Max 13-1906	Low est Max 17-1948	Low est Max 6-1918				
Low est Min -1-1935	Low est Min -1-1895	Low est Min -1-1979				
High est Min 51-1902	High est Min 55-1909	High est Min 52-1911				
Greatest ppt 1.84-1902	Greatest ppt 1.34-1902	Greatest ppt 1.98-1923				