

OKLAHOMA MONTHLY SUMMARY DECEMBER 1996

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MONTHLY SUMMARY FOR DECEMBER 1996

Oklahoma experienced higher than normal temperatures and less than normal precipitation during December. Despite sub-zero cold in some areas during the week before Christmas, the statewide averaged temperature for the month of 41.8 degrees was 2.3 degrees greater than normal, which ranks this as the 38th warmest December in the state since 1896. Precipitation totals, abetted by a significant snowfall in the northwest that occurred on the last day of November but was reported in December, averaged only 0.54 inches across the state, 1.13 inches short of normal, ranking this as the 13th driest December on record.

Preliminary annual statistics indicate that 1996 was cooler and wetter than average, despite the drought conditions that existed during the first half of the year. The annual average temperature for the state, 59.6 degrees, was 0.6 degree lower than normal, ranking this as Oklahoma's 26th coolest year. Total precipitation averaged 37.28 inches, 3.04 inches greater than normal and the 29th largest statewide total since 1896.

The last-of-November, first-of-December snowfall extended over much of northwestern Oklahoma, producing nine inches of snow at Laverne (Harper County) and 8.5 inches at Gate (Beaver). Sleet and freezing rain were reported elsewhere in northern Oklahoma. Beaver (Beaver) reported 1.60 inches of precipitation from the melted snow and, in southeastern Oklahoma, Carter Tower (McCurtain) reported 1.39 inches of rain. A surge of cold air followed, dropping temperatures to the single-digits in the Panhandle, as Beaver and Turpin (Beaver) reported lows of 9 degrees.

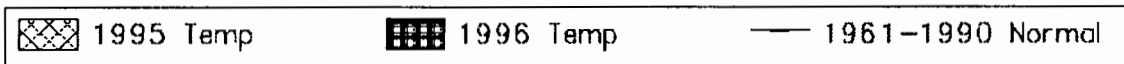
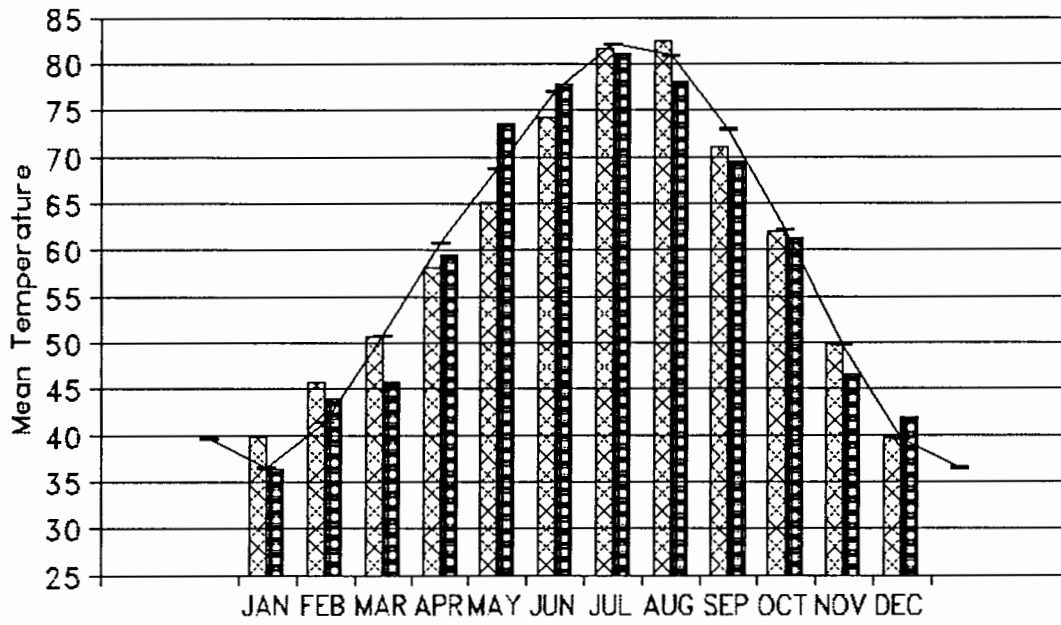
The early cold was followed by a period of mild weather that culminated when daytime temperatures in the west reached into the 80s from the 9 through the 11th. The Tipton (Tillman) Mesonet site registered a high temperature of 84 degrees on the 10th, the highest temperature reported in the state during the month. A few showers in the southeast during that period produced some rain, but only Smithville (McCurtain) at 1.50 and McCurtain (Haskell) at 1.05 inches reported daily amounts greater than one inch, both on the 5th.

Significant rain fell in the south and east on the 14th and 15th, including 1.50 inches at the Mesonet site near Mount Herman (McCurtain) and 1.46 inches reported at each of three McCurtain County locations: Broken Bow, Valliant and Pine Creek Dam. Colder air and wintry weather returned to the state, beginning on the 16th when Boise City (Cimarron) reported 4.5 inches of snow. One to four inches of snow, some of it following or mixed with freezing rain or sleet, fell elsewhere across the northwestern two-thirds of the state on the 16th and early on the 17th. Five people were killed on slippery highways, including three in two separate accidents on Interstate 35 near Springer (Carter). The month's coldest weather followed on the heels of the winter storm, when temperatures plunged to sub-zero readings in the Panhandle and single digits in many other areas. Kenton and Boise City (both in Cimarron County) each reported -7 degree temperatures on the 19th, the lowest reported during the month. None of the sites of the Oklahoma Mesonet, whose reporting period coincides with the calendar day, reported above freezing temperatures at any time on the 18th.

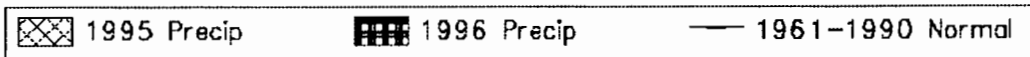
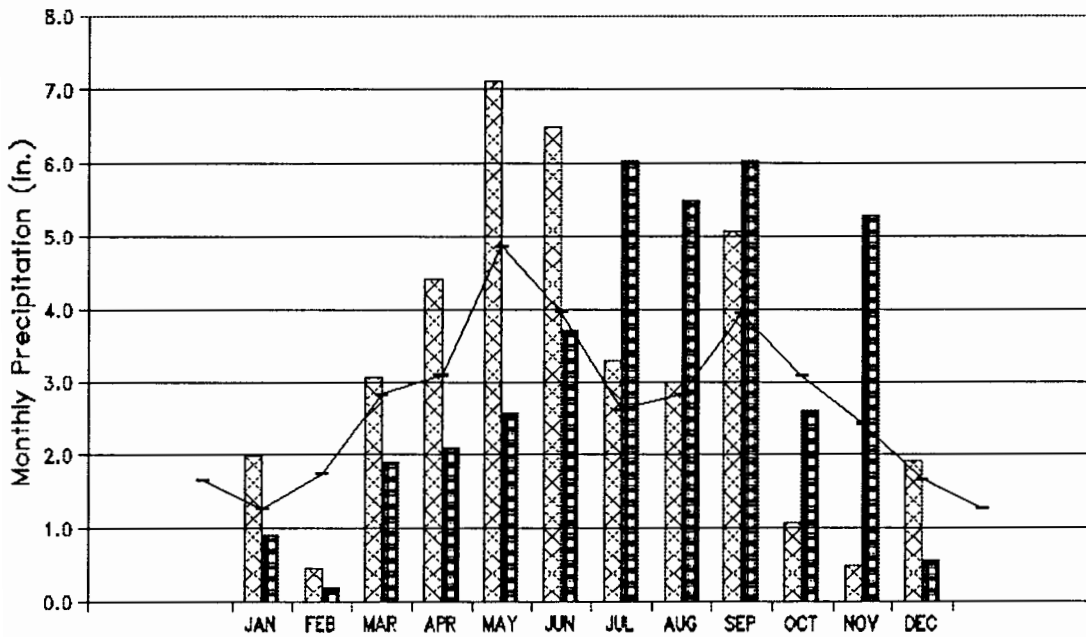
Daytime temperatures moderated into the 60s and 70s by the 23rd before another cold front brought frigid air, but little precipitation. Daily low temperatures in single digits were commonplace in northern Oklahoma from the 23rd through the 27th. Mild temperatures prevailed during the week after Christmas, reaching the mid-to-upper 70s in many areas on the 27th. Widespread fog in central Oklahoma caused some traffic problems late in the month. One person was killed in a fog-related traffic accident near Colbert (Bryan) and an eight-car chain reaction accident on Interstate 40 near El Reno (Canadian) tied up traffic but resulted in no serious injuries.

Howard L. Johnson

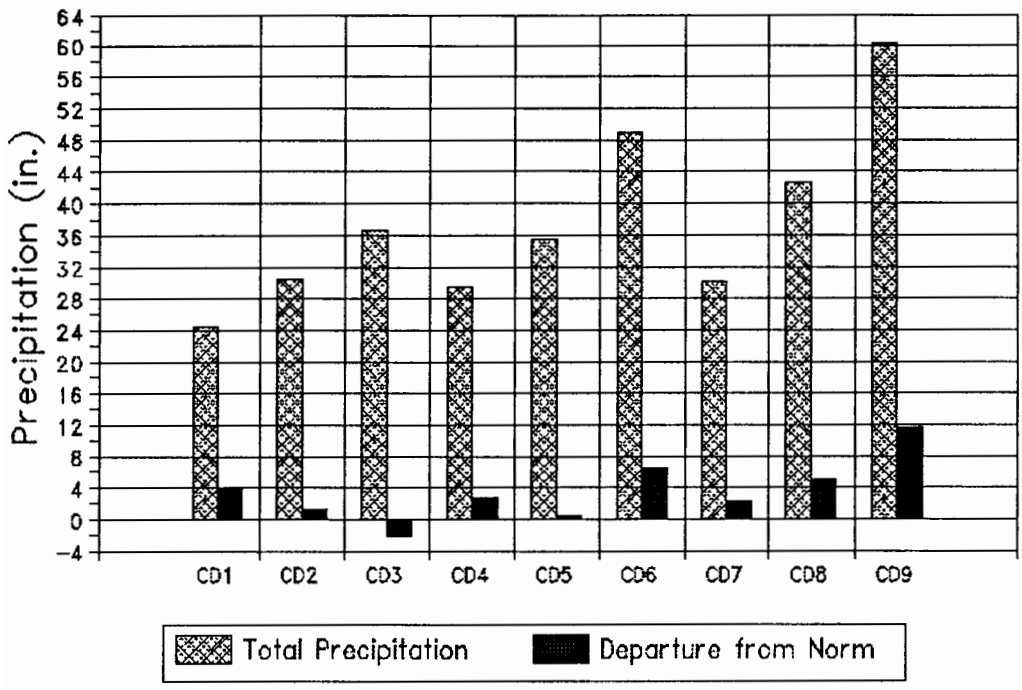
1995 and 1996 STATEWIDE TEMPERATURES Monthly Averages



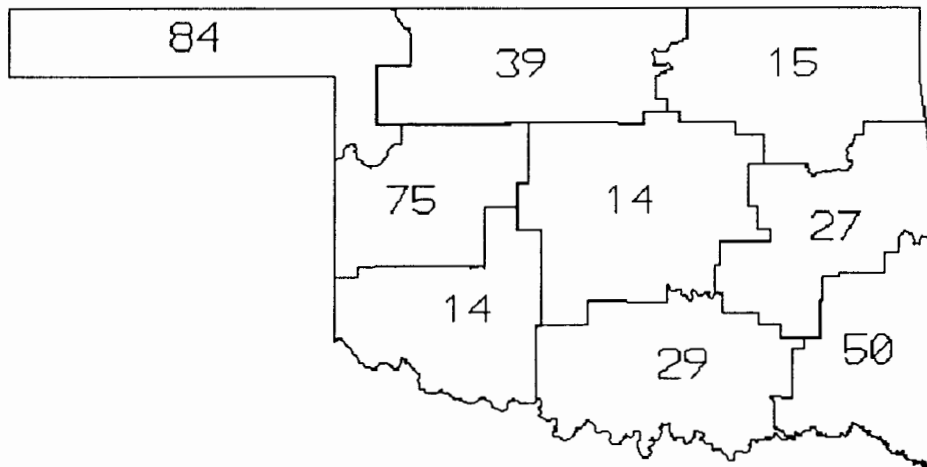
1995 and 1996 STATEWIDE PRECIPITATION Monthly Totals



CD Averaged Precipitation January through December 1996



CD PERCENT OF NORMAL PRECIPITATION DECEMBER 1996



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

CD	MAX TEMP	DATE	LOCATION	MIN TEMP	DATE	LOCATION	24-HOUR PRECIP	DATE	LOCATION	MONTHLY PRECIP	LOCATION
1	81	9	GAGE	-7	19	BOISE CITY	1.60	1	BEAVNER	1.74	BEAVNER
				-7	19	KENTON					
2	81	10	WAYNOKA	2	19	FT SUPPLY	1.01	1	HELENA	1.16	GREAT SALT P
				2	20	FT SUPPLY					
3	76	11	HULAH	5	19	HULAH	1.10	1	CLEVELAND	1.19	CLEVELAND
	76	10	RALSTON	5	20	HULAH					
	76	11	RALSTON								
4	81	10	ELK CITY	2	19	HAMMON	.90	1	GEARY	.99	VICI
							.90	1	VICI		
5	77	10	EL RENO	6	24	STILLWATER	1.18	1	STILLWATER	1.22	STILLWATER
	77	10	PURCELL	6	25	STILLWATER					
6	78	11	MCCURTAIN	6	19	MCCURTAIN	1.05	5	MCCURTAIN	2.57	MCCURTAIN
				6	20	MCCURTAIN					
7	82	10	ALTUS	6	19	ALTUS DAM	.60	1	MANGUM	.60	MANGUM
	82	11	ALTUS DAM	6	19	HOBART					
	82	10	MANGUM	6	19	HOLLIS					
				6	19	MANGUM					
8	80	11	WAURIKA DAM	5	19	MARLOW	1.22	14	MADILL	1.77	DAISY
9	82	11	ANTLERS	6	19	ZOE	1.50	5	SMITHVILLE	3.53	IDABEL

TABLE OF 1995/1996 COMPARISONS

**DECEMBER
Temperature (°F)**

**DECEMBER
Precipitation (in.)**

Station	1995	1996	1995	1996
Arnett	36.0	36.0	1.63	0.72
Mutual	****	36.6	****	0.33
Tulsa	39.4	42.0	1.77	0.10
Elk City	38.7	42.5	1.21	0.77
Oklahoma City	40.0	42.2	2.35	0.00
McAlester	43.7	44.7	1.61	0.31
Altus Irr Station	42.8	45.2	0.90	0.22
Ardmore	44.8	****	1.84	****
Idabel	42.6	45.2	4.45	3.53

EXTREMES

VARIABLE	STATION	DIVISION	OBSERVATION	DATE
Minimum temperature (°F)	Boise City	1	- 7	19
	Kenton	1	- 7	19
Maximum temperature (°F)	Altus Irr Sta	7	82	10
	Altus Dam	7	82	11
	Mangum	7	82	10
	Antlers	9	82	11
Maximum 24-hour precipitation	Heavner	1	1.60"	1

DECEMBER 1996 SUMMARY FOR THE PANHANDLE DIVISION (CD1)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV		MIN	DAY	HEAT DEG	DEV FROM	COOL DEG	DEV FROM	TOT PPT	NUM OBS	DEV FROM	MAX 24-HR	DAY	
					FROM NORM	MAX TEMP												
ARNETT	332	1	36.0	31	0.6	78	10	1	20	898	-21	0	0	0.720	31	-0.05	0.66	1
BEAVER	593	1	33.4	31	-0.6	75	30	-6	20	980	19	0	0	1.740	31	1.15	1.60	1
BOISE CITY	908	1	37.8	31	2.1	80	9	-7	19	843	-65	0	0	0.201	31	-0.18	0.20	16
BUFFALO	1243	1	37.8	31	0.7	77	27	4	18	843	-22	0	0	0.000	31	-0.80	0.00	31
FARGO	3070	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.690	31	-0.08	0.69	1
GAGE	3407	1	36.8	30	0.1	81	9	2	19	847	-31	0	0	0.006	30	*****	0.00	26
GATE	3489	1	35.2	31	0.2	75	11	-1	19	925	-5	0	0	1.052	31	0.35	0.94	1
GOODWELL	3628	1	36.1	31	2.2	78	10	-6	19	895	-69	0	0	0.000	31	-0.28	0.00	31
GUYMON	3835	1	37.9	31	*****	74	10	-3	19	840	*****	0	*****	0.440	31	*****	0.22	17
HOOKER	4298	1	34.5	31	-0.5	75	11	-3	20	947	17	0	0	0.001	31	-0.41	0.00	16
KENTON	4766	1	37.3	29	*****	80	9	-7	19	802	*****	0	*****	0.070	31	-0.23	0.07	17
LAVERNE	5045	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.781	31	0.05	0.71	1
RANGE	7412	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.231	31	*****	0.23	1
REGNIER	7534	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.181	31	-0.15	0.18	17
TURPIN	9017	1	33.2	25	*****	72	11	-3	19	794	*****	0	*****	0.430	31	*****	0.40	1

DECEMBER 1996 SUMMARY FOR NORTH CENTRAL DIVISION (CD2)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV		MIN	DAY	HEAT DEG	DEV FROM	COOL DEG	DEV FROM	TOT PPT	NUM OBS	DEV FROM	MAX 24-HR	DAY	
					FROM NORM	MAX TEMP												
ALVA	193	2	38.2	31	*****	78	10	8	19	832	*****	0	*****	0.850	31	*****	0.85	1
VANCE AFB	302	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.022	27	*****	0.02	17
BILLINGS	755	2	37.1	31	1.1	73	10	7	20	866	-33	0	0	0.723	31	-0.65	0.72	1
BLACKWELL 2E	818	2	40.6	31	4.1	73	10	9	19	756	-128	0	0	0.383	31	-0.97	0.38	1
BRAMAN	1075	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.351	31	*****	0.35	1
CEDARDALE	1620	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.410	31	*****	0.38	1
CHEROKEE	1724	2	38.3	30	1	76	10	9	19	801	-59	0	0	0.000	31	-1.13	0.00	31
ENID	2912	2	40.6	31	2.6	73	10	9	19	756	-81	0	0	0.490	31	-0.65	0.47	1
FT SUPPLY	3304	2	36.8	30	2	77	10	2	20	848	-92	0	0	0.880	30	*****	0.78	1
FREEDOM	3358	2	33.9	31	-2.5	78	11	5	20	966	79	0	0	0.650	31	-0.16	0.65	1
GREAT SALT P	3740	2	38.2	20	*****	75	11	10	26	536	*****	0	*****	1.160	23	*****	0.61	1
HARDY	3909	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.041	31	*****	0.04	1
HELENA	4019	2	37.0	31	1.9	77	11	8	20	870	-58	0	0	1.011	31	0.03	1.01	1
JEFFERSON	4573	2	39.2	31	2.2	73	10	8	19	799	-69	0	0	0.001	31	-1.19	0.00	16
LAMONT	5013	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.531	31	*****	0.53	1
MEDFORD	5768	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.001	31	*****	0.00	31
MORRISON	6065	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.300	31	*****	0.30	1
MUTUAL	6139	2	36.6	31	1.1	78	11	4	20	881	-34	0	0	0.330	31	-0.41	0.32	1
ORIENTA	6751	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.040	31	-0.77	0.04	1
PERRY	7012	2	42.5	31	3.7	74	9	10	19	697	-115	0	0	0.341	31	-0.99	0.34	1
PONCA CITY	7201	2	40.2	30	4.4	76	10	11	19	745	-160	0	0	0.013	30	*****	0.01	17
RED ROCK	7505	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.441	31	-0.90	0.44	1
WAYNOKA	9404	2	38.7	31	1.5	81	10	7	19	816	-46	0	0	0.690	31	-0.21	0.69	1
WOODWARD	9760	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.590	31	-0.25	0.45	1

DECEMBER 1996 SUMMARY FOR NORTHEAST DIVISION (CD3)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV				HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV			
					FROM NORM	MAX TEMP	DAY	MIN TEMP							DAY	FROM NORM	MAX 24-HR	DAY
BARNSDALL	535	3	39.5	31	1.4	73	10	8	19	791	-43	0	0	0.275	31	-1.63	0.14	1
BARTLESVILLE	548	3	39.8	31	1.7	75	10	9	19	783	-52	0	0	0.260	31	-1.37	0.10	15
BURBANK	1256	3	****	0	****	****	0	****	0	****	****	****	****	0.003	31	-1.50	0.00	23
CHELSEA	1717	3	****	0	****	****	0	****	0	****	****	****	****	0.300	31	****	0.25	1
CLAREMORE	1828	3	40.1	31	2.7	73	12	11	20	773	-83	0	0	0.230	31	-1.95	0.14	1
CLEVELAND 2	1902	3	42.2	31	****	74	10	9	19	706	****	0	****	1.190	31	****	1.10	1
FORAKER	3250	3	****	0	****	****	0	****	0	****	****	****	****	0.291	31	-1.21	0.29	1
HOLLOW	4258	3	****	0	****	****	0	****	0	****	****	****	****	0.123	31	-1.91	0.12	15
HOMINY	4289	3	****	0	****	****	0	****	0	****	****	****	****	0.222	31	-1.35	0.22	1
HULAH	4393	3	34.8	18	****	76	11	5	20	544	****	0	****	0.072	31	-1.31	0.07	1
KANSAS	4672	3	41.7	28	****	70	10	8	19	652	****	0	****	1.070	31	-2.13	0.60	1
KEYSTONE	4812	3	39.4	28	****	74	11	11	20	717	****	0	****	0.201	28	****	0.20	1
LENAPAH	5118	3	****	0	****	****	0	****	0	****	****	****	****	0.450	31	****	0.35	15
MANNFORD	5522	3	42.1	31	3.2	74	10	8	19	710	-99	0	0	0.121	31	-1.67	0.12	15
MARAMEC	5540	3	****	0	****	****	0	****	0	****	****	****	****	0.230	31	-1.25	0.22	1
MIAMI	5855	3	39.4	28	****	70	10	8	20	718	****	0	****	0.000	31	-2.46	0.00	31
NOWATA	6485	3	38.1	31	0.1	71	11	9	20	835	-2	0	0	0.281	31	-1.74	0.15	1
OOLOGAH	6729	3	37.9	19	****	75	11	7	20	515	****	0	****	0.721	19	****	0.72	2
PAWHUSKA	6935	3	39.9	31	2.3	74	10	8	19	777	-72	0	0	0.221	31	-1.45	0.17	1
PAWNEE	6940	3	****	0	****	****	0	****	0	****	****	****	****	0.370	31	-1.16	0.35	1
PRYOR	7309	3	39.9	31	2.8	72	11	11	20	779	-87	0	0	0.265	31	-2.14	0.12	15
RALSTON	7390	3	41.1	31	3.2	76	11	10	20	742	-99	0	0	0.351	31	-1.21	0.35	1
SKIATOOK	8258	3	****	0	****	****	0	****	0	****	****	****	****	0.220	31	-1.44	0.10	1
SPAVINAW	8380	3	43.1	31	2.7	71	11	10	19	679	-84	0	0	0.272	31	-2.23	0.12	1
TULSA	8992	3	42.0	31	3.1	74	10	11	19	713	-96	0	0	0.104	31	-2.06	0.10	14
UPPER SPAV	9101	3	41.6	29	****	73	10	9	20	679	****	0	****	0.064	30	****	0.04	31
VINITA	9203	3	40.0	31	2.5	70	10	9	20	776	-77	0	0	0.400	31	-2.13	0.35	1
WAGONER	9247	3	43.0	31	2.4	71	10	11	19	683	-73	0	0	0.232	31	-2.21	0.12	5
WANN	9298	3	****	0	****	****	0	****	0	****	****	****	****	0.280	31	****	0.18	15
WYNONA	9792	3	****	0	****	****	0	****	0	****	****	****	****	0.172	31	****	0.17	1

DECEMBER 1996 SUMMARY FOR WEST CENTRAL DIVISION (CD4)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV				HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV			
					FROM NORM	MAX TEMP	DAY	MIN TEMP							DAY	FROM NORM	MAX 24-HR	DAY
CANTON DAM	1445	4	38.4	27	****	78	11	7	19	717	****	0	****	0.021	25	****	0.02	17
CLINTON	1909	4	41.0	31	1.7	79	10	6	19	745	-53	0	0	0.600	31	-0.39	0.56	1
COLONY	2039	4	****	0	****	****	0	****	0	****	****	****	****	0.460	31	****	0.41	1
CORDELL	2125	4	****	0	****	****	0	****	0	****	****	****	****	0.470	31	-0.43	0.45	1
ELK CITY	2849	4	42.5	31	3.8	81	10	4	19	699	-117	0	0	0.770	31	0.00	0.57	1
ERICK	2944	4	42.0	31	3	80	10	3	19	713	-94	0	0	0.690	31	-0.02	0.65	1
GEARY	3497	4	45.1	31	6.7	79	10	11	19	618	-207	2	2	0.900	31	-0.04	0.90	1
HAMMON	3871	4	36.3	31	0.1	80	11	2	19	890	-3	0	0	0.800	31	0.04	0.73	1
LEEDEY	5090	4	****	0	****	****	0	****	0	****	****	****	****	0.770	31	0.13	0.77	3
MACKIE	5463	4	****	0	****	****	0	****	0	****	****	****	****	0.680	31	****	0.50	1
MORAVIA	6035	4	****	0	****	****	0	****	0	****	****	****	****	0.640	31	-0.18	0.62	1
OKEENE	6629	4	40.4	30	1.5	76	10	9	19	738	-71	0	0	0.450	31	-0.60	0.45	1
RETROP	7565	4	****	0	****	****	0	****	0	****	****	****	****	0.301	31	****	0.30	1
REYDON	7579	4	44.8	28	****	78	11	3	19	565	****	0	****	0.460	28	****	0.46	1
SAYRE	7952	4	****	0	****	****	0	****	0	****	****	****	****	0.560	31	-0.03	0.55	1
SWEETWATER	8652	4	****	0	****	****	0	****	0	****	****	****	****	0.600	31	****	0.59	1
TALOGA	8708	4	39.0	31	1.7	79	10	6	19	807	-52	0	0	0.451	31	-0.23	0.38	1
THOMAS	8815	4	****	0	****	****	0	****	0	****	****	****	****	0.420	31	****	0.38	1
VICI	9172	4	****	0	****	****	0	****	0	****	****	****	****	0.991	31	0.13	0.90	1
WATONGA	9364	4	41.8	31	3.7	77	10	8	19	721	-114	0	0	0.613	31	-0.45	0.55	1
WEATHERFORD	9422	4	40.0	30	2.9	79	10	8	19	751	-115	0	0	0.500	31	-0.39	0.50	16

DECEMBER 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	*****	*****	*****	*****	0.090	31	****	0.09	5
ARCADIA	288	5	****	0	****	****	0	****	0	*****	*****	*****	*****	0.022	31	****	0.01	31
BLANCHARD	830	5	44.4	31	3.1	72	9	8	19	638	-98	0	0	0.221	31	-1.37	0.12	1
BRISTOW	1144	5	43.3	31	3.2	74	10	10	19	674	-99	0	0	0.024	31	-2.05	0.02	17
CHANDLER	1684	5	44.2	24	****	75	10	10	18	500	*****	1	*****	0.002	31	-1.53	0.00	15
CHICKASHA	1750	5	42.8	31	2.3	75	10	10	19	687	-73	0	0	0.252	31	-1.01	0.19	1
COX CITY	2196	5	****	0	****	****	0	****	0	*****	*****	*****	*****	0.270	31	****	0.11	5
CRESCENT	2242	5	****	0	****	****	0	****	0	*****	*****	*****	*****	0.520	31	****	0.52	1
EDMOND	2788	5	****	0	****	****	0	****	0	*****	*****	*****	*****	0.030	31	****	0.01	31
EL RENO	2818	5	42.5	31	3.7	77	10	8	19	697	-116	0	0	0.140	31	-0.90	0.11	1
GUTHRIE	3821	5	42.2	31	2.3	76	11	8	19	707	-72	1	1	0.001	31	-1.50	0.00	18
HENNESSEY	4055	5	40.1	26	****	73	10	8	19	648	*****	0	*****	0.530	31	-0.51	0.34	1
INGALLS	4489	5	****	0	****	****	0	****	0	*****	*****	*****	*****	0.222	31	****	0.22	1
KINGFISHER	4861	5	40.9	31	1.8	76	10	10	19	747	-56	0	0	0.480	31	-0.71	0.37	1
KONAWA	4915	5	****	0	****	****	0	****	0	*****	*****	*****	*****	0.801	31	-1.08	0.80	4
MARSHALL	5589	5	****	0	****	****	0	****	0	*****	*****	*****	*****	0.450	31	-0.70	0.45	1
MEEKER	5779	5	43.2	31	3	75	10	10	19	678	-92	1	1	0.040	31	-1.38	0.04	4
MULHALL	6110	5	****	0	****	****	0	****	0	*****	*****	*****	*****	0.200	31	****	0.16	1
NORMAN NWS	6386	5	42.3	31	1.3	75	10	9	19	704	-41	0	0	0.016	31	-1.56	0.01	17
OILTON	6616	5	****	0	****	****	0	****	0	*****	*****	*****	*****	0.000	31	****	0.00	31
OKEMAH	6638	5	45.6	31	4.8	74	10	14	19	600	-150	0	0	0.411	31	-1.59	0.30	3
OKLAHOMA CTY	6661	5	42.2	31	2.9	75	10	9	19	706	-92	0	0	0.003	31	-1.40	0.00	18
PERKINS	7003	5	****	0	****	****	0	****	0	*****	*****	*****	*****	0.300	31	-1.23	0.30	1
PIEDMONT	7068	5	****	0	****	****	0	****	0	*****	*****	*****	*****	0.010	31	****	0.01	17
PRAGUE	7264	5	****	0	****	****	0	****	0	*****	*****	*****	*****	0.000	31	-1.82	0.00	31
PURCELL	7327	5	43.2	31	2.7	77	10	10	18	675	-85	1	1	0.302	31	-1.53	0.20	5
SEMINOLE	8042	5	43.8	31	1.8	74	10	11	19	658	-55	0	0	0.160	31	-1.66	0.08	5
SHAWNEE	8110	5	****	0	****	****	0	****	0	*****	*****	*****	*****	0.210	31	-1.67	0.16	1
STELLA	8479	5	****	0	****	****	0	****	0	*****	*****	*****	*****	0.022	31	****	0.02	17
STILLWATER	8501	5	39.8	31	2.4	74	11	6	25	782	-75	0	0	1.220	31	-0.08	1.18	1
STROUD	8563	5	****	0	****	****	0	****	0	*****	*****	*****	*****	0.163	31	****	0.15	1
TECUMSEH	8751	5	****	0	****	****	0	****	0	*****	*****	*****	*****	0.133	31	****	0.13	16
TROUSDALE	8960	5	****	0	****	****	0	****	0	*****	*****	*****	*****	0.040	31	****	0.04	18
UNION CITY	9086	5	****	0	****	****	0	****	0	*****	*****	*****	*****	0.111	31	-1.24	0.11	1
WELTY	9479	5	****	0	****	****	0	****	0	*****	*****	*****	*****	0.170	31	****	0.17	1
WEWOKA	9575	5	****	0	****	****	0	****	0	*****	*****	*****	*****	0.200	31	-1.70	0.13	15

DECEMBER 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	*****	*****	*****	*****	0.850	31	****	0.54	15
BEGGS	631	6	****	0	****	****	0	****	0	*****	*****	*****	*****	0.000	31	****	0.00	31
BOYNTON	1027	6	****	0	****	****	0	****	0	*****	*****	*****	*****	0.392	31	****	0.14	15
CHECOTAH	1711	6	****	0	****	****	0	****	0	*****	*****	*****	*****	0.361	31	-2.09	0.13	15
CLAYTON	1858	6	****	0	****	****	0	****	0	*****	*****	*****	*****	1.770	31	****	0.92	15
DEWAR	2485	6	****	0	****	****	0	****	0	*****	*****	*****	*****	0.263	31	-1.83	0.18	15
DUSTIN	2690	6	****	0	****	****	0	****	0	*****	*****	*****	*****	0.200	31	****	0.20	15
EUFAULA	2993	6	44.5	30	1.5	70	12	15	19	617	-69	0	0	0.450	31	-2.25	0.45	14
HANNA	3884	6	44.3	31	2.8	74	11	11	19	643	-87	0	0	0.301	31	-2.14	0.18	15
HARTSHORNE	3946	6	****	0	****	****	0	****	0	*****	*****	*****	*****	1.000	31	****	0.68	15
HASKELL	3956	6	****	0	****	****	0	****	0	*****	*****	*****	*****	0.140	31	-2.14	0.10	16
HOLDENVILLE	4235	6	46.9	11	****	75	11	18	5	200	*****	0	*****	0.130	31	-1.82	0.13	15
LAKE EUFAULA	4975	6	43.6	21	****	73	12	13	19	450	*****	0	*****	0.210	23	****	0.21	5
LYONS	5437	6	****	0	****	****	0	****	0	*****	*****	*****	*****	0.742	31	-2.01	0.30	5
MCALESTER	5664	6	44.7	30	3.5	75	11	12	19	610	-128	0	0	0.314	30	****	0.28	14
MCCURTAIN	5693	6	44.6	31	2.1	78	11	6	20	635	-63	3	3	2.574	31	-0.25	1.05	5
MUSKOGEE	6130	6	44.8	29	****	71	10	12	19	586	*****	0	*****	0.151	29	****	0.15	14
OKMULGEE	6670	6	39.8	29	****	73	10	8	19	732	*****	0	*****	0.341	31	-1.89	0.27	1
OKTAHA	6678	6	****	0	****	****	0	****	0	*****	*****	*****	*****	0.380	31	****	0.24	15
QUINTON	7372	6	****	0	****	****	0	****	0	*****	*****	*****	*****	0.961	31	-1.68	0.65	14
SALLISAW	7862	6	42.4	31	1.1	72	12	13	20	701	-35	0	0	1.460	31	-1.35	0.83	15
SCPIO	7979	6	****	0	****	****	0	****	0	*****	*****	*****	*****	0.500	31	****	0.29	15
SCRAPER	7993	6	****	0	****	****	0	****	0	*****	*****	*****	*****	0.600	31	****	0.60	12
SHORT	8170	6	****	0	****	****	0	****	0	*****	*****	*****	*****	1.600	31	****	0.87	15
STILWELL	8506	6	42.2	31	2.2	70	11	11	24	707	-69	0	0	0.701	31	-2.46	0.42	14
TAHLEQUAH	8677	6	42.7	31	3	70	10	10	19	692	-93	0	0	0.320	31	-2.68	0.32	1
WEBBERS FALL	9445	6	42.7	31	3.3	74	12	12	20	691	-104	0	0	0.810	31	-1.90	0.36	5
WESTVILLE	9523	6	****	0	****	****	0	****	0	*****	*****	*****	*****	0.610	31	****	0.37	5
WETUMKA	9571	6	****	0	****	****	0	****	0	*****	*****	*****	*****	0.540	31	-1.58	0.32	1

DECEMBER 1996 SUMMARY FOR SOUTHWEST DIVISION (CD7)

NAME	ID	CD	MEAN		DEV		MIN	DAY	HEAT		DEV		COOL		DEV		TOT	NUM	DEV	
			TEMP	OBS	FROM	MAX			DEG	DAY	FROM	DEG	FROM	NORM	FROM	MAX			24-HR	DAY
ALTUS	179	7	45.2	31	3.4	82	10	7	19	613	-107	0	0	0.221	31	-0.69	0.22	1		
ALTUS DAM	184	7	44.5	31	4.8	82	11	6	19	635	-149	0	0	0.330	31	-0.53	0.33	1		
ANADARKO	224	7	39.5	28	*****	76	11	8	19	715	*****	0	*****	0.001	29	*****	0.00	17		
APACHE	260	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.150	31	-1.01	0.15	1		
ALTUS AFB	447	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.001	30	*****	0.00	17		
CARNEGIE	1504	7	42.1	31	2.2	80	10	7	19	717	-62	6	6	0.001	31	-1.06	0.00	16		
CHATTANOOGA	1706	7	45.4	30	3.9	81	10	8	19	588	-142	0	0	0.061	31	-1.12	0.06	1		
DUNCAN 11 W	2668	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.001	31	*****	0.00	18		
FREDERICK	3353	7	43.4	31	3	80	11	9	19	671	-92	0	0	0.000	31	-1.03	0.00	31		
HEADRICK	3998	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.000	31	*****	0.00	31		
HOBART	4204	7	41.4	30	1.5	81	10	6	19	709	-70	0	0	0.001	30	****	0.00	17		
HOLLIS	4249	7	44.0	31	3.2	81	10	6	19	653	-98	0	0	0.530	31	-0.15	0.53	1		
LAWTON	5063	7	42.3	31	2.4	80	11	11	20	704	-75	0	0	0.100	31	-1.15	0.10	1		
FORT SILL	5068	7	43.7	30	*****	79	10	9	19	640	*****	0	*****	0.015	30	*****	0.01	17		
LOOKEBA	5329	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.260	31	-0.76	0.23	1		
MANGUM	5509	7	44.7	30	3.9	82	10	6	19	608	-142	0	0	0.600	30	****	0.60	1		
RANDLETT	7403	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.002	31	*****	0.00	9		
ROOSEVELT	7727	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.000	29	****	0.00	31		
SEDAN	8016	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.160	31	****	0.16	1		
SNYDER	8299	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.000	31	-0.98	0.00	31		
VINSON	9212	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.001	31	-0.70	0.00	17		
WALTERS	9278	7	45.0	31	2.5	77	10	10	19	622	-77	0	0	0.040	31	-1.36	0.04	1		
WICHITA MT	9629	7	42.1	29	*****	80	11	9	19	666	*****	0	*****	0.070	29	****	0.07	1		
WILLOW	9668	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.581	31	****	0.57	1		

DECEMBER 1996 SUMMARY FOR SOUTH CENTRAL DIVISION (CD8)

NAME	ID	CD	MEAN		DEV		MIN	DAY	HEAT		DEV		COOL		DEV		TOT	NUM	DEV	
			TEMP	OBS	FROM	MAX			DEG	DAY	FROM	DEG	FROM	NORM	FROM	MAX			24-HR	DAY
ADA	17	8	43.4	31	1.2	73	10	10	20	669	-39	0	0	0.430	31	-1.55	0.23	5		
ALLEN	147	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.370	31	*****	0.15	5		
ATOKA DAM	394	8	49.1	31	7.2	77	12	14	19	493	-224	0	0	0.170	31	-2.12	0.07	15		
ATOKA DAM	394	8	45.9	19	*****	77	12	15	19	363	*****	0	*****	1.760	31	-0.53	1.12	2		
BOKCHITO	917	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.200	31	****	0.20	21		
CENTRAHOMA	1648	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.950	31	****	0.70	15		
CHICKASAW	1745	8	43.5	31	2.7	76	12	10	19	665	-85	0	0	0.491	31	-1.38	0.43	15		
COLEMAN	2011	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.030	30	****	0.78	15		
COMANCHE	2054	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.120	31	-1.48	0.06	18		
DAISY	2354	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.771	31	-1.14	0.84	15		
DUNCAN	2660	8	42.8	31	1.5	76	11	11	19	688	-47	0	0	0.141	31	-1.35	0.10	19		
DURANT	2678	8	45.2	31	3	78	12	13	19	614	-94	0	0	0.800	31	-1.42	0.64	15		
ELMORE CITY	2872	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.180	31	****	0.18	5		
GRADY	3688	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.050	31	****	0.05	16		
HEALDTON	4001	8	41.3	24	*****	72	10	8	19	569	*****	0	*****	0.120	25	****	0.09	5		
HENNEPIN	4052	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.102	31	****	0.10	5		
KETCHUM RAN	4780	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.070	31	****	0.03	17		
KINGSTON	4865	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.690	31	-1.43	0.59	14		
LEHIGH	5108	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.953	31	****	0.40	1		
LINDSAY	5216	8	44.4	31	3.2	77	10	12	19	639	-100	1	1	0.311	31	-1.38	0.12	17		
LOCO	5247	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.310	31	****	0.28	17		
MADILL	5468	8	46.5	31	2.7	78	11	13	19	573	-85	0	0	1.321	31	-0.69	1.22	14		
MARIETTA	5563	8	46.1	31	2.3	77	11	11	19	585	-72	0	0	0.590	31	-1.26	0.49	15		
MARLOW	5581	8	43.5	31	2	77	10	5	19	666	-64	0	0	0.060	31	-1.33	0.03	18		
MC GEE CREEK	5713	8	44.5	31	*****	77	12	11	19	637	*****	0	*****	0.960	31	****	0.60	15		
PAULS VALLEY	6926	8	44.0	31	2.2	78	10	10	19	652	-67	2	2	0.120	31	-1.68	0.10	5		
PONTOTOC	7214	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.861	31	-1.00	0.55	13		
TISHOMINGO	8884	8	46.7	31	3.9	77	11	13	20	569	-120	0	0	1.630	31	-0.50	0.80	4		
TUSSY	9032	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.122	31	****	0.04	15		
WAURIKA	9395	8	46.6	31	3.2	79	10	12	19	570	-101	0	0	0.001	31	-1.55	0.00	14		
WAURIKA DAM	9399	8	42.9	16	*****	80	11	11	20	354	*****	0	*****	0.190	31	****	0.10	15		

DECEMBER 1996 SUMMARY FOR SOUTHEAST DIVISION (CD9)

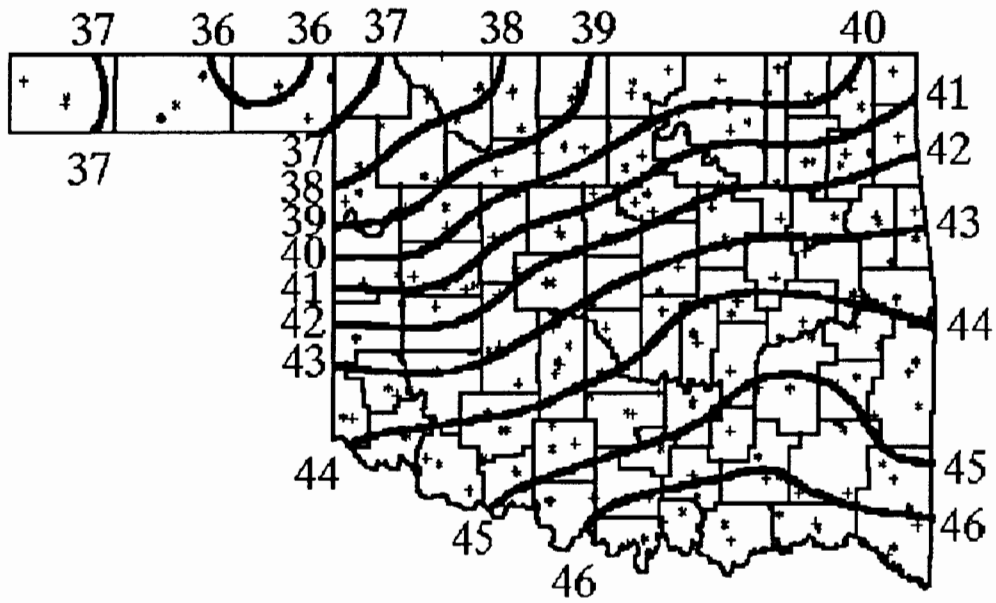
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			TEMP	NUM	FROM	MAX	DAY	TEMP	DAY	DEG	FROM	DEG	FROM	NORM	FROM	NORM	FROM			MAX	DAY
ANTLERS	256	9	45.5	31	2.4	82	11	13	20	606	-73	0	0	0.000	31	-2.88	0.00	31			
BATTIEST	567	9	42.5	31	*****	72	12	7	20	698	*****	0	*****	2.533	31	*****	1.32	15			
BEAR MT	584	9	45.9	21	*****	78	12	12	20	402	*****	0	*****	2.631	23	*****	1.36	15			
BENGAL	670	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.160	31	*****	0.78	15			
BOSWELL	980	9	46.4	31	2.6	79	11	13	19	577	-81	0	0	0.963	31	-1.82	0.69	15			
BROKEN BOW	1162	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.090	31	-0.89	1.46	15			
BROKEN BOW D	1168	9	45.2	31	2.5	78	11	10	20	615	-76	0	0	2.553	31	-1.55	1.39	15			
CARNASAW	1499	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.495	31	-1.62	1.16	15			
CARTER TWR	1544	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.380	31	-1.74	1.39	1			
FANSHAWE	3065	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.181	31	-2.03	0.68	15			
HEAVENER	4008	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.360	31	-2.13	0.71	14			
HUGO	4384	9	47.5	31	2.7	78	11	14	19	545	-82	3	3	1.590	31	-1.73	0.93	15			
IDABEL	4451	9	45.2	31	1.9	79	12	11	21	613	-60	0	0	3.531	31	-0.15	1.15	15			
PINE CREEK	7080	9	44.5	21	*****	79	12	8	20	432	*****	0	*****	2.962	22	*****	1.46	15			
POTEAU	7254	9	44.5	31	*****	76	11	11	19	637	*****	2	*****	1.480	31	*****	0.65	14			
SMITHVILLE	8285	9	42.6	8	*****	67	6	21	4	180	*****	0	*****	2.952	14	*****	1.50	5			
SPIRO	8416	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.631	31	-1.43	0.74	5			
TUSKAHOMA	9023	9	46.7	31	3.5	77	11	10	20	570	-106	3	3	1.351	31	-1.47	0.79	15			
VALLIANT	9118	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.700	31	-1.01	1.46	15			
WILBURTON	9634	9	44.5	31	2.7	75	11	9	20	637	-83	0	0	1.001	31	-1.99	0.72	14			
ZOE	9985	9	41.4	31	1.1	73	12	6	19	732	-35	0	0	1.000	31	-2.64	0.42	5			

DECEMBER 1996 CLIMATE DIVISION SUMMARY

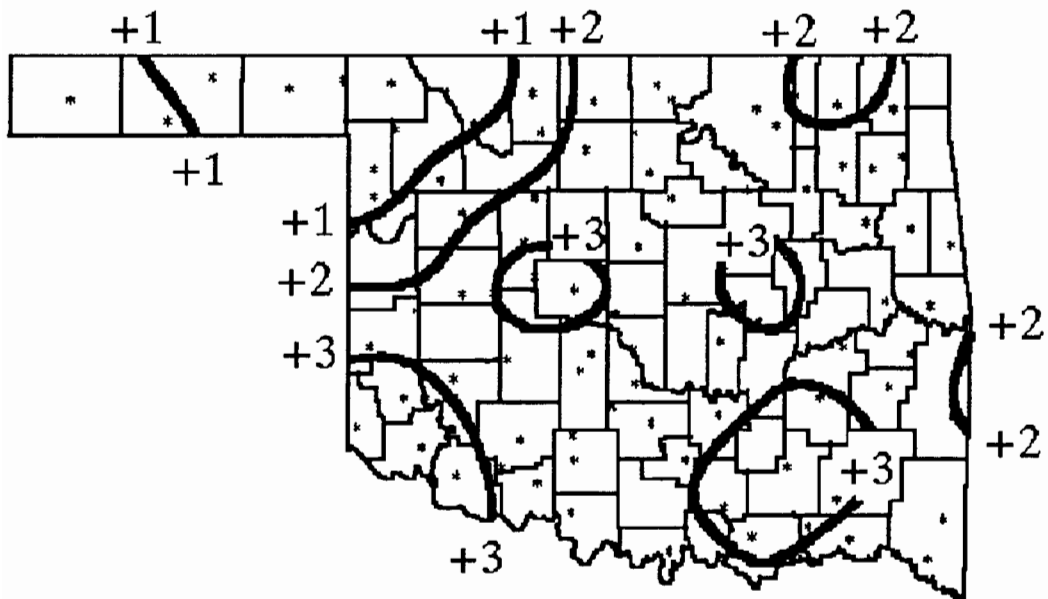
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	TEMP	STA	FROM	MAX	DAY	TEMP	DAY	DAYS	FROM	DEG	FROM	DAYS	FROM	NORM	FROM			MAX	DAY
1	36.2	9	1	81	9	-7	19	891	-34	0	0	0.470	14	-0.09	1.60	1			
2	38.4	13	1.9	81	10	2	20	818	-64	0	0	0.410	20	-0.65	1.01	1			
3	40.8	13	2.7	76	11	5	20	750	-83	0	0	0.300	27	-1.66	1.10	1			
4	40.9	9	2.8	81	10	2	19	742	-93	0	0	0.610	19	-0.20	0.90	1			
5	42.8	13	2.7	77	10	6	25	688	-84	0	0	0.220	36	-1.33	1.18	1			
6	43.5	8	2.6	78	11	6	20	662	-85	0	0	0.690	26	-1.88	1.05	5			
7	43.8	11	3.3	82	10	6	19	651	-110	1	1	0.140	17	-0.87	0.60	1			
8	45.1	13	2.9	80	11	5	19	617	-90	0	0	0.540	29	-1.39	1.22	14			
9	44.9	10	2	82	11	6	19	623	-62	1	1	1.780	18	-1.78	1.50	5			

MESONET MONTHLY SUMMARY FOR DECEMBER 1996

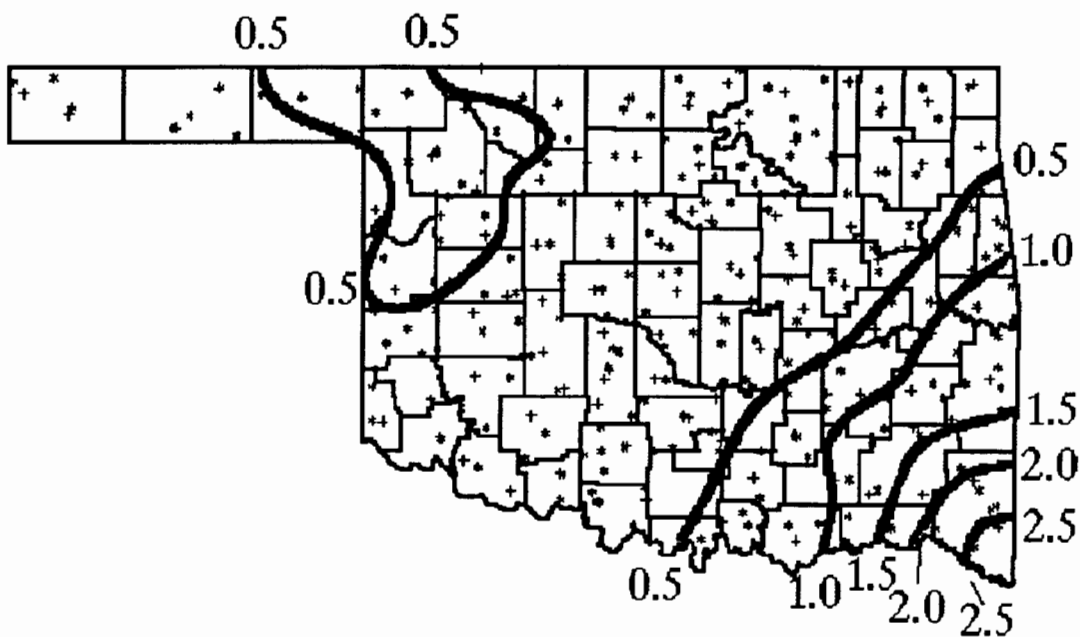
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	TEMP	TEMP	DAY	TEMP	TEMP	DAY	HDD	CDD	PPT	24-HR	DAY	TEMP	TEMP	DAY	TEMP		TEMP	DAY	HDD	CDD	PPT	24-HR	DAY	TEMP	TEMP	DAY	HDD	CDD	PPT	24-HR	DAY																																	
PANHANDLE																																																																
ARNETT	40.7	83	9	2	19	753	0	.23	.23	1	GOODWELL	37.0	76	9	-3	19	867	0	.27	.16	2	BEAVER	35.2	75	10	-3	19	922	0	.11	.11	1	HOOKER	37.2	76	10	-1	19	863	0	.23	.22	1																					
BOISE CITY	36.8	81	9	-5	19	874	0	.18	.18	1	KENTON	37.9	81	9	-4	19	839	0	.02	.02	1	BUFFALO	37.9	77	10	4	19	841	0	.48	.30	2	SLAPOUT	38.1	75	10	0	19	833	0	.25	.19	1																					
NORTH CENTRAL																																																																
ALVA	37.8	76	10	10	19	844	0	.60	.31	1	MAY RANCH	37.9	77	10	6	19	839	0	.37	.37	2	BLACKWELL	39.4	73	9	11	19	792	0	.33	.29	1	MEDFORD	38.7	72	10	11	19	815	0	.45	.30	2																					
BRECKENRIDGE	39.7	74	10	10	19	783	0	.39	.35	1	NEWKIRK	38.9	76	10	9	19	810	0	.36	.32	1	CHEROKEE	37.1	75	10	11	19	864	0	.69	.50	2	RED ROCK	40.5	75	10	10	19	758	0	.13	.11	1																					
FAIRVIEW	39.8	79	10	9	19	783	1	.65	.38	1	SEILING	40.2	81	10	8	19	769	0	.45	.23	1	FREEDOM	39.0	78	10	7	19	806	0	.76	.52	2	WOODWARD	40.5	81	9	6	19	760	0	.40	.38	1																					
LAHOMA	39.3	72	10	9	19	797	0	.29	.27	1	NORTHEAST																																																					
BIXBY	42.4	73	10	12	19	699	0	.14	.13	14	NOWATA	39.2	73	10	10	19	801	0	.12	.09	14	BURBANK	38.8	76	10	8	19	811	0	.29	.27	1	PAWNEE	42.0	77	10	10	19	713	1	.05	.04	1																					
CLAREMORE	42.2	75	10	11	19	706	0	.10	.09	14	PRYOR	42.0	73	10	12	19	715	0	.11	.08	14	COPAN	38.6	74	10	10	19	819	0	.17	.10	14	SKIATOOK	42.5	76	10	9	19	699	1	.18	.15	14																					
FORAKER	39.3	78	10	6	19	798	0	.26	.24	1	TULLAHASSEE	42.8	71	10	11	19	689	0	.14	.06	14	JAY	41.7	74	10	10	19	722	0	.11	.07	14	VINITA	39.6	70	10	9	19	788	0	.22	.12	1																					
MIAMI	40.5	71	10	10	19	761	0	.18	.10	1	WYMONA	41.7	76	10	10	19	722	1	.11	.08	14	WEST CENTRAL																																										
BESSIE	42.9	81	10	8	19	685	1	.07	.06	1	PUTNAM	39.5	80	10	3	19	789	0	.43	.29	2	BUTLER	41.2	83	10	5	19	738	0	.35	.34	1	RETROP	42.5	81	10	7	19	696	0	.00	.00	1																					
CAMARGO	38.2	80	10	2	19	830	0	.44	.44	1	WATONGA	41.1	76	10	7	19	742	0	.39	.35	1	CHEYENNE	42.3	78	10	4	19	704	0	.54	.49	1	WEATHERFORD	40.0	77	10	5	19	774	0	.01	.01	1																					
ERICK	42.0	81	10	4	19	711	0	.28	.25	1	CENTRAL																																																					
ACME	44.8	78	10	10	19	629	1	.02	.01	15	MINCO	43.1	76	10	9	19	679	0	.03	.02	17	BOWLEGS	44.8	76	10	12	20	628	1	.07	.04	4	NINNEKAH	44.6	78	10	11	19	633	0	.00	.00	1																					
BRISTOW	43.7	77	10	11	19	663	3	.02	.02	14	NORMAN	44.1	77	10	11	19	648	1	.01	.01	4	CHANDLER	43.0	76	10	10	19	683	1	.03	.01	17	OILTON	42.6	77	10	11	19	698	3	.03	.03	14																					
CHICKASHA	43.7	76	10	12	19	662	1	.07	.04	4	OKEMAH	44.5	74	10	13	19	636	0	.11	.05	14	EL RENO	42.0	80	10	7	19	712	0	.05	.05	17	PERKINS	41.4	73	10	9	19	732	0	.01	.01	14																					
KINGFISHER	40.2	76	10	11	19	770	0	.01	.01	17	SHAWNEE	44.4	76	10	13	19	641	2	.01	.01	4	GUTHRIE	43.1	75	9	10	19	679	0	.04	.02	17	SPENCER	44.3	77	10	11	19	644	2	.01	.01	21																					
MARENA	42.0	75	10	8	19	712	0	.03	.03	1	STILLWATER	40.9	75	10	10	19	748	0	.00	.00	1	MARSHALL	39.6	72	9	9	19	787	0	.03	.01	1	WASHINGTON	44.5	77	10	11	19	636	1	.06	.05	4																					
EAST CENTRAL																																																																
CALVIN	45.2	76	11	13	19	614	0	.31	.21	14	SALLISAW	44.7	75	10	13	20	628	0	1.16	.62	14	COOKSON	43.8	74	10	10	19	657	0	1.09	.50	14	STIGLER	45.3	76	11	13	20	613	3	1.04	.65	14																					
EUFALA	45.7	74	10	14	19	600	1	.26	.17	14	STUART	45.7	74	11	13	19	597	0	1.13	.93	14	HASKELL	43.7	74	10	13	18	660	1	.16	.14	14	TAHLEQUAH	43.5	75	10	10	19	666	0	.31	.08	14																					
MCALESTER	45.1	75	11	12	18	616	0	.78	.66	14	WEBBERS FALLS	44.1	76	10	14	20	566	3	.76	.29	4	OKMULGEE	42.8	73	30	10	19	688	0	.12	.05	14	WESTVILLE	43.4	72	11	10	19	668	0	.50	.14	5																					
SOUTHWEST																																																																
ALTUS	43.9	83	10	8	19	654	0	.00	.00	1	HOLLIS	44.2	82	10	6	19	646	0	.00	.00	1	APACHE	43.5	79	10	10	19	665	0	.06	.03	17	MANGUM	42.4	82	10	6	19	700	0	.01	.01	2																					
FORT COBB	43.8	82	10	10	19	658	1	.00	.00	1	MEDICINE PARK	46.2	82	10	13	19	584	1	.01	.01	31	GRANDFIELD	45.0	83	10	8	19	622	2	.01	.01	31	TIPTON	44.6	84	10	8	19	632	1	.01	.01	1																					
HINTON	41.4	77	10	7	19	733	0	.01	.01	17	WALTERS	44.9	78	10	10	19	622	0	.05	.02	17	HOBART	42.0	82	10	6	19	714	0	.00	.00	1	SOUTH CENTRAL																															
ADA	45.1	75	10	12	19	616	0	.38	.20	4	LANE	46.7	79	11	15	19	568	0	.74	.44	14	ARDMORE	47.4	78	10	14	19	548	1	.20	.11	14	MADILL	48.3	80	11	16	18	519	1	.64	.51	14																					
BURNEYVILLE	46.2	78	11	12	19	582	0	.93	.92	14	PAULS VALLEY	46.4	81	10	13	19	578	2	.16	.12	4	BYARS	44.3	76	10	9	19	640	0	.18	.07	14	RINGLING	46.0	80	10	10	19	589	0	.11	.05	4																					
CENTRAHOMA	44.3	75	11	11	19	641	0	1.00	.70	14	SULPHUR	45.2	76	10	12	19	613	0	.52	.37	14	DURANT	47.9	80	11	17	18	532	2	.73	.54	14	TISHOMINGO	45.2	77	11	11	19	613	0	.36	.20	14																					
KETCHUM RANCH	44.4	78	10	11	19	638	0	.05	.04	4	WAURIKA	46.3	80	10	12	19	578	0	.09	.05	17	SOUTHWEST																																										
ANTLERS	45.2	78	11	11	18	612	0	1.49	.74	14	IDABEL	47.5	77	11	15	20	543	1	2.46	1.37	15	BROKEN BOW	48.2	81	11	14	20	523	2	2.91	1.38	15	MT HERMAN	46.4	75	12	9	19	576	0	2.97	1.50	15																					
CLAYTON	46.3	78	11	12	20	579	0	1.38	.52	14	TALIHINA	46.1	78	11	11	20	588	2	1.28	.57	14	CLOUDY	45.0	76	12	11	20	619	0	1.78	.64	15	WILBURTON	44.7	76	11	11	19	630	0	.99	.58	14																					
HUGO	48.1	78	11	16	19	526	3	1.14	.38	14	WISTER	45.3	76	11	12	19	615	3	.75	.32	15																																											



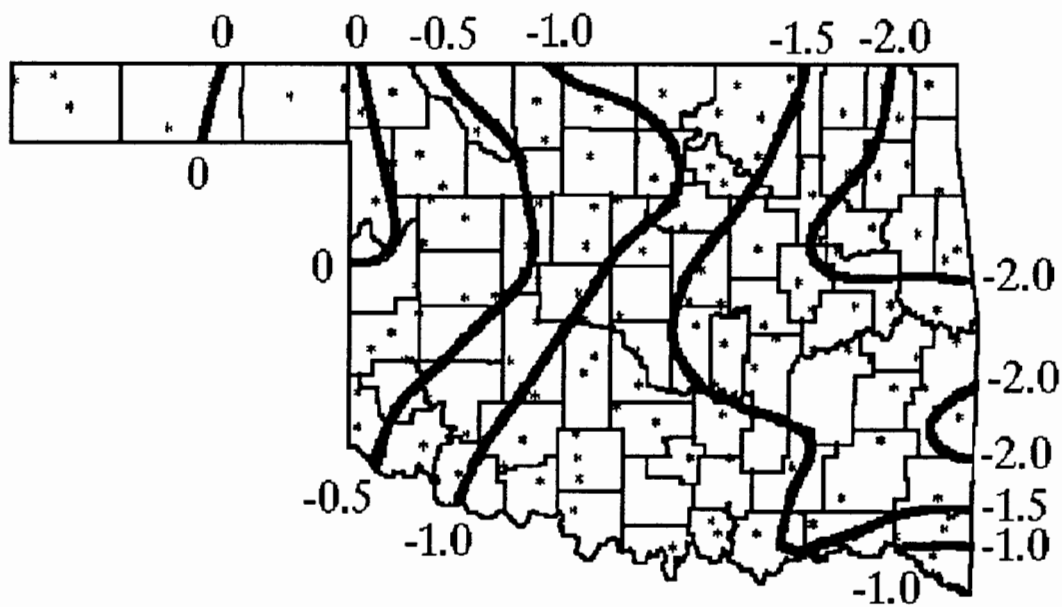
**DECEMBER 1996 AVERAGE MONTHLY TEMPERATURE
(DEGREES F)**



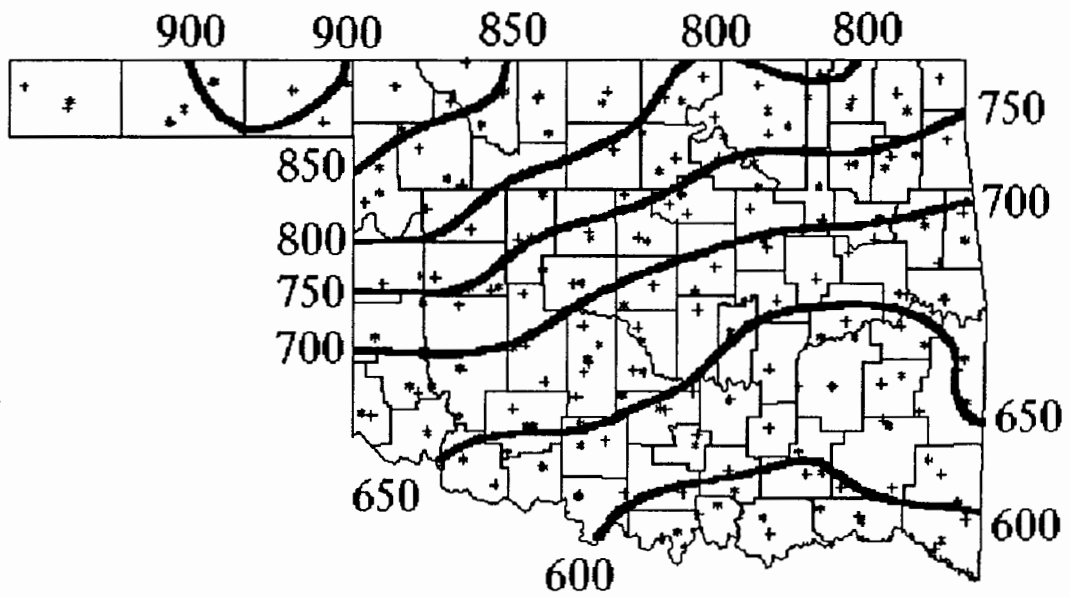
**DECEMBER 1996 DEVIATION FROM NORMAL TEMPERATURES
(DEGREES F)**



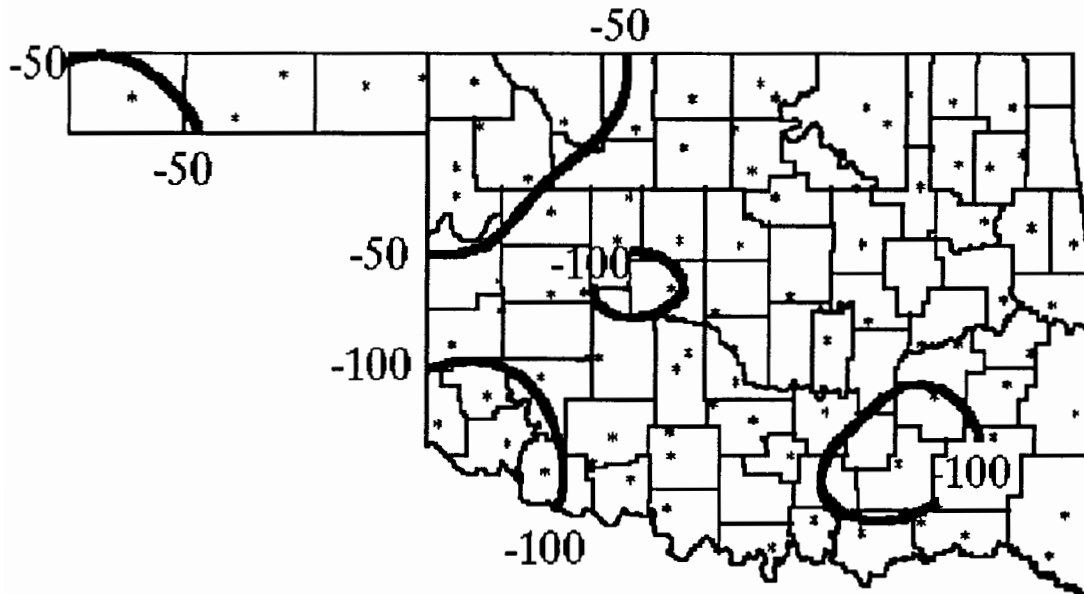
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(INCHES)



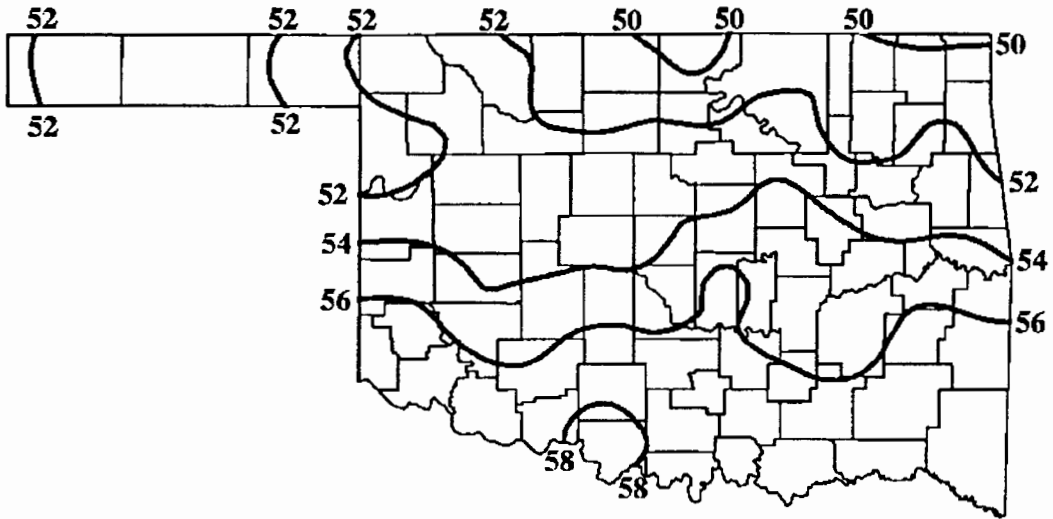
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(INCHES)



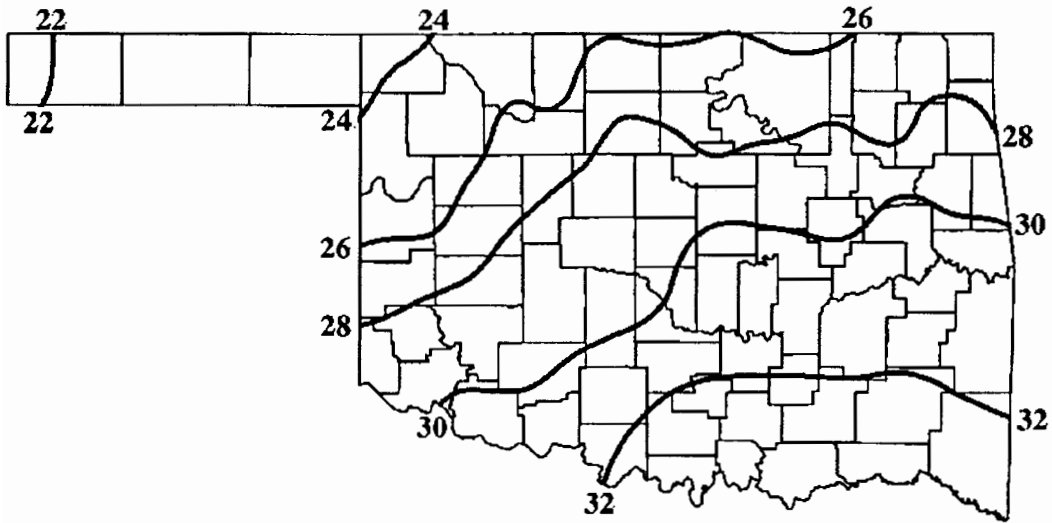
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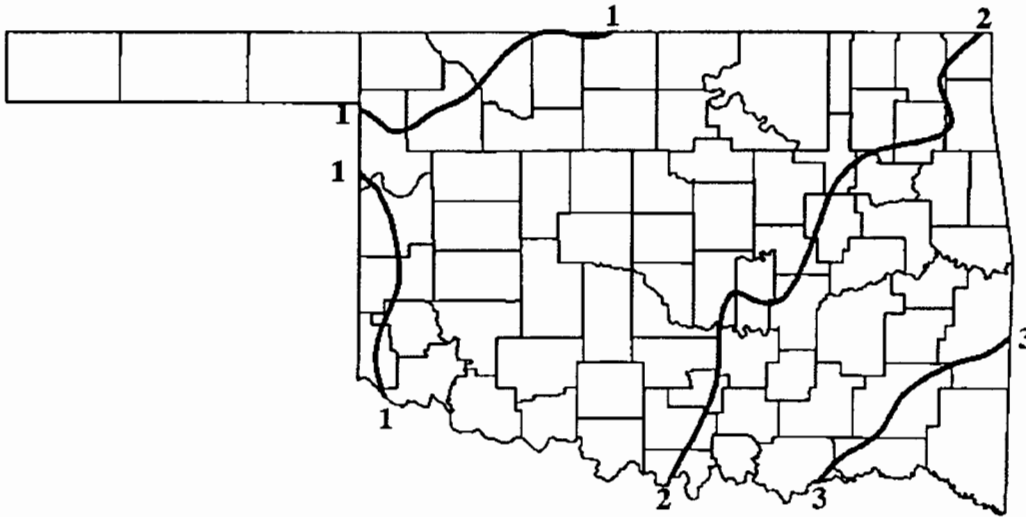
DECEMBER 1996 DEVIATION FROM NORMAL HEATING DEGREE DAYS



FEBRUARY NORMAL DAILY MAXIMUM TEMPERATURE (°F)



FEBRUARY NORMAL DAILY MINIMUM TEMPERATURE (°F)



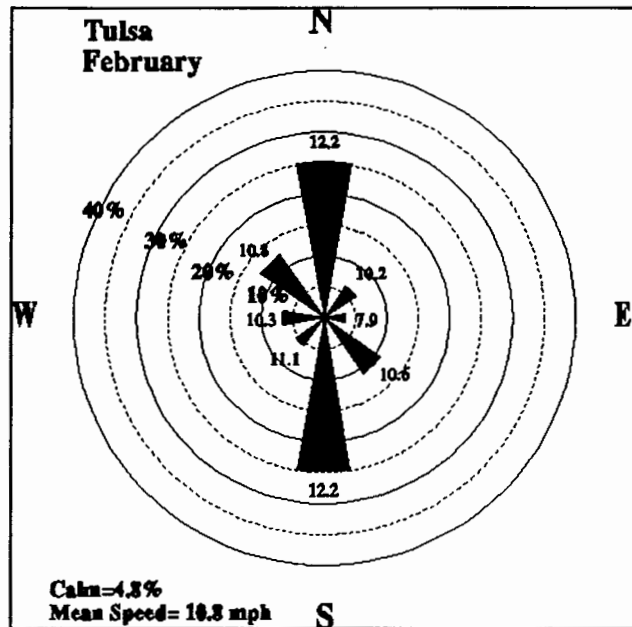
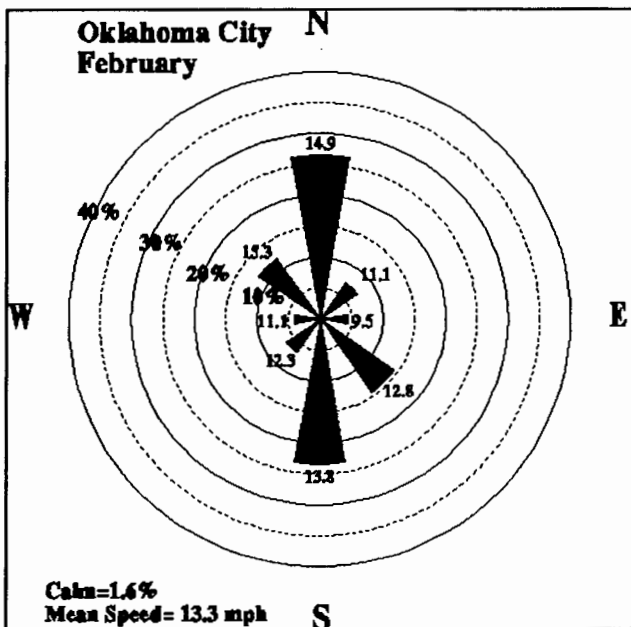
FEBRUARY NORMAL MONTHLY PRECIPITATION (inches)

OUTLOOK FOR FEBRUARY THROUGH APRIL 1997

BASED ON SEASONAL OUTLOOKS PROVIDED BY THE CLIMATE PREDICTION CENTER

TEMPERATURE: Near Normal Statewide

**PRECIPITATION: Less than Normal Northwest
Near Normal Elsewhere**



February 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.

FEBRUARY 1997 SUNRISE AND SUNSET

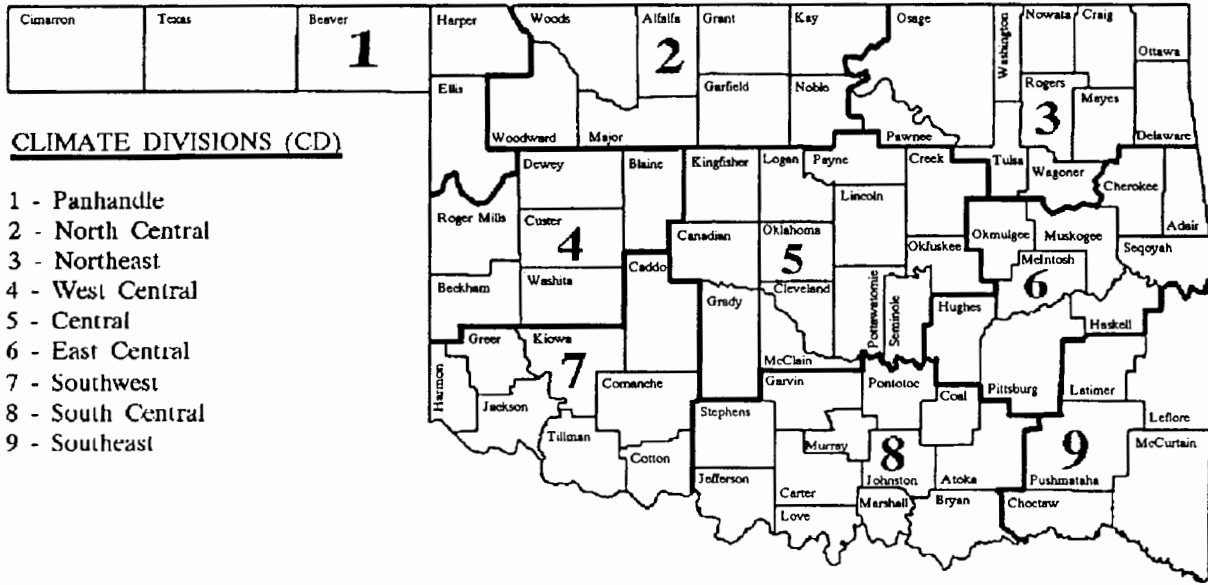
OKLAHOMA CITY

TULSA

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

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

OKLAHOMA



CLIMATE DIVISIONS (CD)

- 1 - Panhandle
- 2 - North Central
- 3 - Northeast
- 4 - West Central
- 5 - Central
- 6 - East Central
- 7 - Southwest
- 8 - South Central
- 9 - Southeast

EXPLANATION OF TABLES

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

- Station Name:
- Station Identification Number: These are usually assigned by the National Climatic Data Center.
- Climate Division: See the figure above.
- Number of Temperature Observations: These are the actual number of temperature reports recorded at the station during the current month. Missing observations may result in artificially high or low mean monthly temperatures.
- Deviation from Normal: The deviation of the observed mean monthly temperature from the monthly station normal. A positive value indicates the month was warmer than normal. A negative value indicates the month was cooler than normal. Normal monthly temperatures may be calculated by subtracting the deviation from the observed temperature.
- Maximum Daily Maximum: The maximum daily maximum temperature observed during the current month and year and the day which it occurred.
- Minimum Daily Minimum: The minimum daily minimum temperature observed during the current month and year and the day which it occurred.
- Heating Degree Days: HDD are calculated each day of the month for which there is a temperature report and the average temperature for the day is less than 65 degrees. Daily values are summed to arrive at a monthly total. They are a qualitative measure of how much heat was required to maintain a comfortable indoor temperature. Missing observations may result in an artificially high or low value. For February 1984 HDD would be calculated as:

$$\sum_{i=1}^{29} 65 - ((TMAX_i + TMIN_i) / 2)$$

Deviation from Normal Heating Degree Days: A positive value indicates higher than normal heating requirements for the month as a whole. A negative value indicates lower than normal heating requirements for the month as a whole. Normal HDD may be calculated by subtracting the deviation from observed HDD.

Cooling Degree Days: CDD are calculated each day of the month for which there is a temperature report and the average temperature for the day exceeds 65 degrees. Daily values are summed to give a monthly total. They are a proxy measure of how much cooling was required to maintain a comfortable indoor temperature. Missing observations may result in an artificially high or low value. For June, CDD would be calculated as:

$$\sum_{i=1}^{30} ((TMAX_i + TMIN_i) / 2) - 65$$

Deviation from Normal Cooling Degree Days: A positive value indicates higher than normal cooling requirements for the month as a whole. A negative value indicates lower than normal cooling requirements for the month as a whole. Normal cooling degree days may be found by subtracting the deviation from the observed cooling degree days.

Total Precipitation: Often incorrectly referred to as mean precipitation, this value is the sum of all precipitation reported during the month at a station. If snow occurred, it is to be melted and its water equivalent recorded.

Number of Precipitation Observations: The number of days a rain or no-rain observation was reported. Missing observations frequently result in artificially low total precipitation values.

Deviation from Normal Precipitation: A positive value indicates more rain than normal was received. A negative value indicates less than was expected rainfall was received. Normal rainfall may be calculated by subtracting the deviation from monthly total.

Maximum 24-Hour Report and Day: The maximum amount of precipitation recorded during the station's 24-hour observation period for the current month and year and the day on which it was recorded.

The second set of tables contain similar information but are the average or extreme over all the stations reporting in each climate division.

OKLAHOMA CITY CLIMATE CALENDAR

FEBRUARY

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
48.4 27.5 .04 27 0 CDD	MAX MIN PPT RDD CDD	90-1911	45.2 26.1 .03 29 0 CDD	MAX MIN PPT RDD CDD	76-1924	47.1 26.6 .06 28 0 CDD	MAX MIN PPT RDD CDD	78-1922	49.6 28.5 .07 26 0 CDD	MAX MIN PPT RDD CDD	77-1942	47.5 28.3 .09 27 0 CDD	MAX MIN PPT RDD CDD	77-1942	45.0 26.3 .02 29 0 CDD	MAX MIN PPT RDD CDD	73-1904	47.3 24.9 .05 29 0 CDD	MAX MIN PPT RDD CDD	74-1937
48.8 28.1 .06 27 0 CDD	MAX MIN PPT RDD CDD	79-1943	50.8 27.8 .04 26 0 CDD	MAX MIN PPT RDD CDD	84-1932	53.1 27.1 .08 25 0 CDD	MAX MIN PPT RDD CDD	79-1922	49.4 28.1 .06 26 0 CDD	MAX MIN PPT RDD CDD	82-1942	52.2 28.9 .08 25 0 CDD	MAX MIN PPT RDD CDD	84-1942	53.5 30.3 .04 23 0 CDD	MAX MIN PPT RDD CDD	82-1942	52.4 31.9 .10 23 0 CDD	MAX MIN PPT RDD CDD	81-1954
50.4 30.6 .06 25 0 CDD	MAX MIN PPT RDD CDD	81-1964	51.9 29.8 .02 24 0 CDD	MAX MIN PPT RDD CDD	81-1927	53.9 30.0 .04 23 0 CDD	MAX MIN PPT RDD CDD	79-1922	54.4 32.4 .04 22 0 CDD	MAX MIN PPT RDD CDD	78-1946	53.9 32.0 .06 22 0 CDD	MAX MIN PPT RDD CDD	82-1942	54.7 31.7 .08 22 0 CDD	MAX MIN PPT RDD CDD	84-1942	51.9 30.6 .10 24 0 CDD	MAX MIN PPT RDD CDD	82-1946
54.0 31.9 .07 22 0 CDD	MAX MIN PPT RDD CDD	92-1946	54.4 32.6 .03 22 0 CDD	MAX MIN PPT RDD CDD	88-1918	53.9 32.0 .05 22 0 CDD	MAX MIN PPT RDD CDD	87-1918	57.8 33.9 .02 19 0 CDD	MAX MIN PPT RDD CDD	84-1917	58.6 34.4 .03 19 0 CDD	MAX MIN PPT RDD CDD	82-1946	58.3 34.4 .08 19 0 CDD	MAX MIN PPT RDD CDD	83-1918	56.9 34.3 .07 19 0 CDD	MAX MIN PPT RDD CDD	80-1904
54.0 31.9 .07 22 0 CDD	MAX MIN PPT RDD CDD	24-1948	54.4 32.6 .03 22 0 CDD	MAX MIN PPT RDD CDD	21-1914	53.9 32.0 .05 22 0 CDD	MAX MIN PPT RDD CDD	19-1940	57.8 33.9 .02 19 0 CDD	MAX MIN PPT RDD CDD	27-1940	58.6 34.4 .03 19 0 CDD	MAX MIN PPT RDD CDD	21-1944	58.3 34.4 .08 19 0 CDD	MAX MIN PPT RDD CDD	25-1942	56.9 34.3 .07 19 0 CDD	MAX MIN PPT RDD CDD	1-1942
54.0 31.9 .07 22 0 CDD	MAX MIN PPT RDD CDD	11-1903	54.4 32.6 .03 22 0 CDD	MAX MIN PPT RDD CDD	7-1910	53.9 32.0 .05 22 0 CDD	MAX MIN PPT RDD CDD	7-1905	57.8 33.9 .02 19 0 CDD	MAX MIN PPT RDD CDD	10-1944	58.6 34.4 .03 19 0 CDD	MAX MIN PPT RDD CDD	10-1944	58.3 34.4 .08 19 0 CDD	MAX MIN PPT RDD CDD	10-1944	56.9 34.3 .07 19 0 CDD	MAX MIN PPT RDD CDD	12-1942
54.0 31.9 .07 22 0 CDD	MAX MIN PPT RDD CDD	55-1946	54.4 32.6 .03 22 0 CDD	MAX MIN PPT RDD CDD	52-1946	53.9 32.0 .05 22 0 CDD	MAX MIN PPT RDD CDD	59-1946	57.8 33.9 .02 19 0 CDD	MAX MIN PPT RDD CDD	56-1944	58.6 34.4 .03 19 0 CDD	MAX MIN PPT RDD CDD	56-1944	58.3 34.4 .08 19 0 CDD	MAX MIN PPT RDD CDD	56-1944	56.9 34.3 .07 19 0 CDD	MAX MIN PPT RDD CDD	52-1944
54.0 31.9 .07 22 0 CDD	MAX MIN PPT RDD CDD	1-15-1945	54.4 32.6 .03 22 0 CDD	MAX MIN PPT RDD CDD	81-1945	53.9 32.0 .05 22 0 CDD	MAX MIN PPT RDD CDD	89-1945	57.8 33.9 .02 19 0 CDD	MAX MIN PPT RDD CDD	74-1945	58.6 34.4 .03 19 0 CDD	MAX MIN PPT RDD CDD	1-06-1947	58.3 34.4 .08 19 0 CDD	MAX MIN PPT RDD CDD	1-06-1947	56.9 34.3 .07 19 0 CDD	MAX MIN PPT RDD CDD	1-31-1945
54.0 31.9 .07 22 0 CDD	MAX MIN PPT RDD CDD	22 Actual	54.4 32.6 .03 22 0 CDD	MAX MIN PPT RDD CDD	23 Actual	53.9 32.0 .05 22 0 CDD	MAX MIN PPT RDD CDD	24 Actual	57.8 33.9 .02 19 0 CDD	MAX MIN PPT RDD CDD	25 Actual	58.6 34.4 .03 19 0 CDD	MAX MIN PPT RDD CDD	26 Actual	58.3 34.4 .08 19 0 CDD	MAX MIN PPT RDD CDD	27 Actual	56.9 34.3 .07 19 0 CDD	MAX MIN PPT RDD CDD	28 Actual

FEBRUARY AVERAGES

TEMPERATURE : 41.0°F
 PRECIPITATION : 1.51"
 HEATING DEGREE DAYS : 674
 COOLING DEGREE DAYS : 0

TULSA CLIMATE CALENDAR

FEBRUARY

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 49.0 max 27.0 min .09 ppt 27 cdd 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt .83-1906	Normal 2 49.0 max 26.0 min .02 ppt 29 cdd 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt .16-1976	Normal 3 49.0 max 27.0 min .09 ppt 27 cdd 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt .83-1906	Normal 4 50.0 max 29.0 min .12 ppt 26 cdd 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt 2.27-1971	Normal 5 49.0 max 29.0 min .09 ppt 26 cdd 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt 1.96-1904	Normal 6 49.0 max 27.0 min .04 ppt 28 cdd 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt .39-1979	Normal 7 47.0 max 26.0 min .07 ppt 28 cdd 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt .76-1909	Normal 8 49.0 max 27.0 min .03 ppt 27 cdd 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt .29-1906	Normal 9 49.0 max 28.0 min .06 ppt 26 cdd 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt .79-1998	Normal 10 53.0 max 27.0 min .03 ppt 25 cdd 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt .89-1983	Normal 11 50.0 max 29.0 min .08 ppt 26 cdd 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt 1.18-1977	Normal 12 60.0 max 29.0 min .09 ppt 25 cdd 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt 1.76-1979	Normal 13 53.0 max 29.0 min .03 ppt 24 cdd 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt .82-1961	Normal 14 52.0 max 32.0 min .06 ppt 23 cdd 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt 1.01-1961	Normal 15 51.0 max 31.0 min .08 ppt 24 cdd 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt .82-1974	Normal 16 51.0 max 30.0 min .03 ppt 25 cdd 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt .75-1975	Normal 17 54.0 max 29.0 min .05 ppt 23 cdd 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt 1.37-1961	Normal 18 55.0 max 32.0 min .05 ppt 21 cdd 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt 1.36-1974	Normal 19 56.0 max 31.0 min .07 ppt 21 cdd 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt 1.31-1966	Normal 20 55.0 max 32.0 min .09 ppt 22 cdd 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt 1.05-1961	Normal 21 52.0 max 31.0 min .10 ppt 23 cdd 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt 1.08-1971	Normal 22 54.0 max 31.0 min .14 ppt 22 cdd 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt 2.99-1965	Normal 23 55.0 max 33.0 min .07 ppt 21 cdd 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt 1.40-1986	Normal 24 53.0 max 32.0 min .07 ppt 22 cdd 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt .86-1918	Normal 25 57.0 max 35.0 min .02 ppt 20 cdd 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt .82-1917	Normal 26 58.0 max 34.0 min .07 ppt 19 cdd 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt 1.25-1904	Normal 27 58.0 max 35.0 min .16 ppt 19 cdd 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt 1.12-1960	Normal 28 58.0 max 35.0 min .08 ppt 19 cdd 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt 2.00-1987
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FEBRUARY AVERAGES

TEMPERATURE : 40.9°F
 PRECIPITATION : 1.93"
 HEATING DEGREE DAYS : 667
 COOLING DEGREE DAYS : 0