

**OKLAHOMA
MONTHLY SUMMARY
REVISED
NOVEMBER 2000**

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MONTHLY SUMMARY FOR NOVEMBER 2000

November was much cooler than normal throughout Oklahoma, while frequent, sometimes heavy, rains in the southeast pushed the statewide precipitation to greater-than-normal levels. The monthly temperature, averaged statewide, for November of 43.4 degrees, 6.4 degrees lower than normal, was the 3rd lowest November temperature recorded in Oklahoma since such records began in 1892. Statewide-averaged precipitation, buoyed by record monthly totals at several southeastern stations, was 3.68 inches (1.26 inches greater than normal), the 18th greatest November total in 109 years.

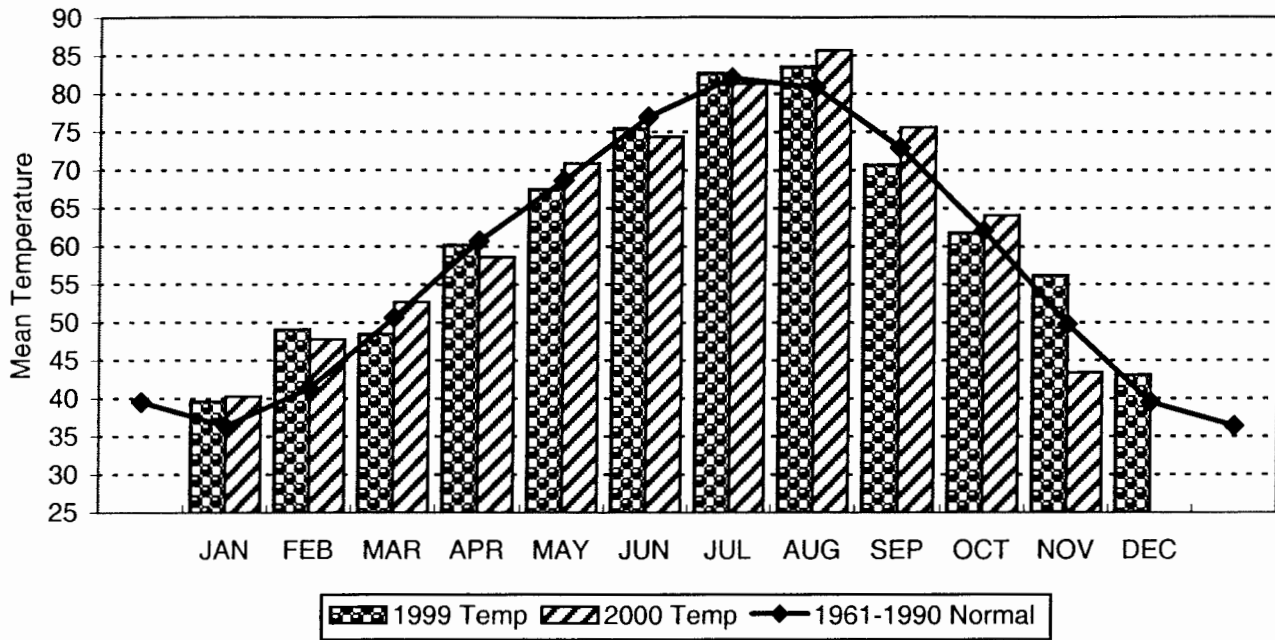
Autumn temperatures averaged 61.1 degrees across the state (0.5 degree less than normal, 40th coolest autumn on record). Precipitation during the season totaled 11.17 inches (1.74 inches greater than normal, 23rd largest). The first 11 months of the year 2000 have produced an average temperature of 63.3 degrees (1.1 degree greater than normal, 24th greatest January-November average temperature). Oklahoma accumulated a statewide-averaged precipitation of 34.89 inches from January through November (2.31 inches greater than normal) to rank this as the 35th wettest such period recorded in the state.

Cool weather prevailed most of the month and was well distributed across the state, as each of the state's nine climate divisions finished the month with temperatures at least 5.8 degrees lower than normal. According to the Oklahoma Mesonet, the 3rd, 4th, and 5th were the only dates with no sub-freezing temperatures reported. Temperatures during the month ranged from 82 degrees reported at Webbers Falls (Muskogee County) and Chandler (Lincoln) on the 1st to 11 degrees reported at Fort Supply on the 13th.

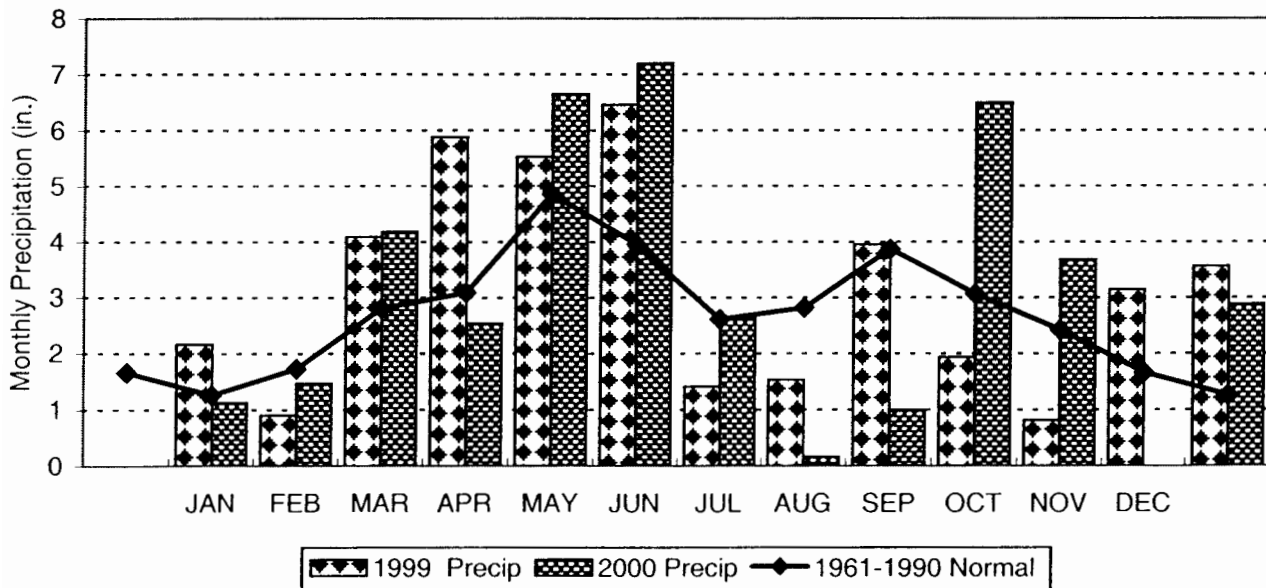
A significant early-season winter storm traversed the state from the 7th through the 9th, producing much of the month's precipitation, especially in the west, where monthly totals were less than the long term average for November. Sedan (Kiowa) recorded 7 inches of snow and Wann (Nowata) reported 6 inches, both on the 9th. Measurable snowfall was reported as far southeast as Madill and Kingston (Marshall) and flurries were seen in McCurtain County at Carnasaw Tower. The snowstorm capped a nine-day period of persistent rain in the southeast that produced more than 10 inches of precipitation across southern McCurtain County. The Idabel Mesonet site recorded 11.70 inches of rain over the period. The Broken Bow Mesonet station recorded 11.53 inches over the same period. Another round of extensive rainfall from the 22nd through the 25th delivered 6.33 inches of precipitation at Comanche (Stephens) and totals between 4 and 5 inches all across McCurtain County. By month's end, National Weather Service stations at Broken Bow, Carnasaw Tower, Carter Tower, Idabel, Smithville, and Valliant in McCurtain County and Comanche in Stephens County had all established new November precipitation records, based on data from 1948 until now.

Howard L. Johnson.

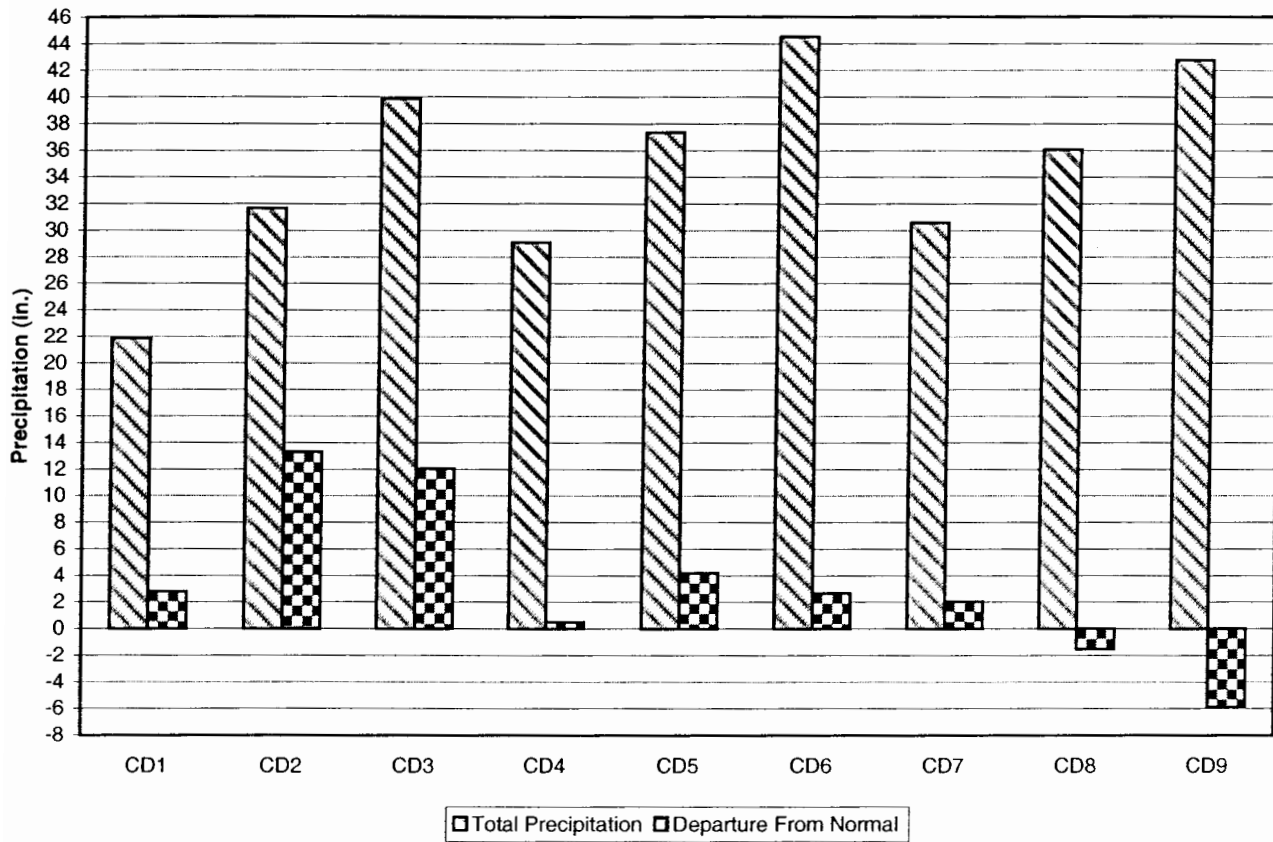
1999 and 2000 STATEWIDE TEMPERATURES Monthly Averages



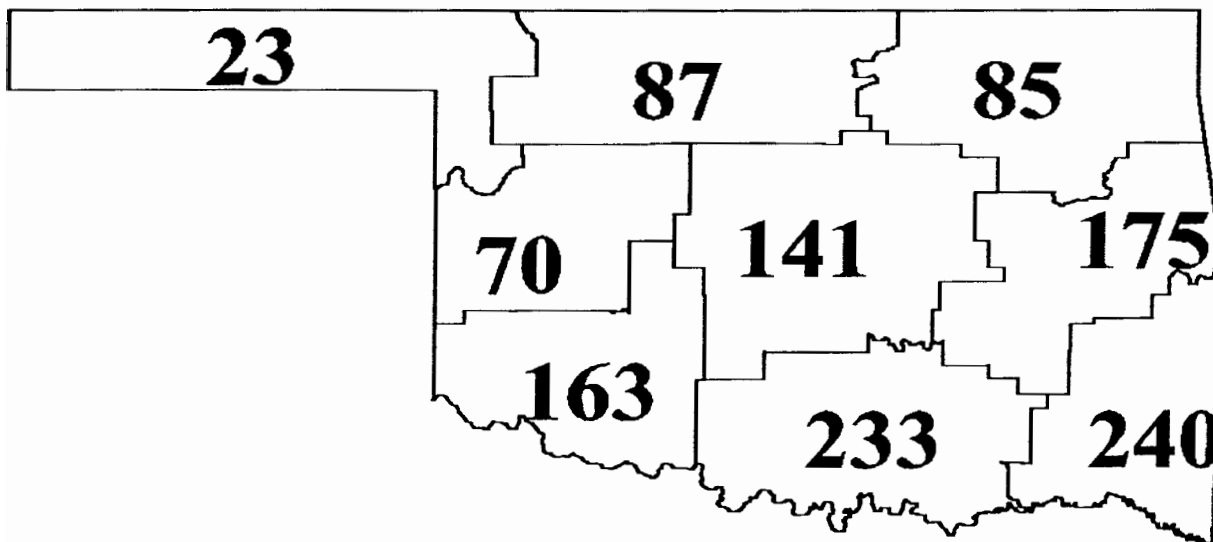
1999 and 2000 STATEWIDE PRECIPITATION Monthly Totals



CD Averaged Precipitation January through November 2000



CD PERCENT OF NORMAL PRECIPITATION November 2000



**EXTREME VALUES OF TEMPERATURE AND PRECIPITATION IN EACH CLIMATE DIVISION
NOVEMBER, 2000**

CD	MAX TEMP	DATE	LOCATION	MIN TEMP	DATE	LOCATION	24-HOUR PRECIP	DATE	LOCATION	MONTHLY PRECIP	LOCATION
1	75	1	BUFFALO	11	18	KENTON	.60	1	GUYMON	.82	LAVERNE
2	80	2	PERRY	2	26	FT SUPPLY	2.30	1	LAHOMA	3.22	LAHOMA
3	80	1	BARTLESVILLE	13	17	RALSTON	1.97	2	SPAVINAW	5.74	BIXBY
	80	1	CLAREMORE								
	80	4	KANSAS								
4	77	1	CANTON DAM	11	17	CLINTON	1.78	1	CANTON DAM	2.63	CANTON DAM
5	82	1	CHANDLER	13	13	WANETTE	1.80	8	TECUMSEH	6.74	COX CITY
6	82	1	WEBBERS FALLS	6	20	MUSKOGEE	2.60	6	SALLISAW	7.14	MCCURTAIN
7	78	1	MANGUM	20	13	ANADARKO	2.15	24	RANDLETT	6.45	RANDLETT
				20	14	ANADARKO					
				20	17	ANADARKO					
				20	17	HOLLIS					
8	82	4	ATOKA	19	21	ATOKA	6.00	6	BOKCHITO	10.89	BOKCHITO
9	80	1	WISTER	16	21	SMITHVILLE	5.88	6	CARTER TWR	17.01	IDABEL

TABLE OF 1999/2000 COMPARISONS

**NOVEMBER
Temperature (°F)**

**NOVEMBER
Precipitation (in.)**

Station	1999	2000	1999	2000
Arnett	53.0	39.7	0.00	0.26
Enid	56.3	42.8	0.29	2.27
Tulsa	57.6	43.8	1.32	3.52
Elk City	55.2	42.3	0.04	1.87
Oklahoma City	56.8	43.3	0.06	2.79
McAlester	58.9	45.2	0.76	5.27
Altus Irr Station	56.2	44.4	0.11	2.28
Ardmore	60.6	47.2	0.12	6.61
Idabel	60.0	48.8	2.80	17.01

EXTREMES

VARIABLE	STATION	DIVISION	OBSERVATION	DATE
Minimum temperature (°F)	Ft. Supply	2	2	26
Maximum temperature (°F)	Chandler	5	82	1
	Webbers Falls	6	82	1
	Atoka	8	82	4
Maximum 24-hour Precipitation	Bokchito	8	6.00	6

NOVEMBER 2000 SUMMARY FOR PANHANDLE CLIMATE DIVISION (CD1)

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
ARNETT	332	1	39.7	30	-6.0	70	1	16	18	759	180	0	0	0.261	30	-1.17	0.13	1
BEAVER	593	1	38.2	30	-6.0	70	7	12	17	805	181	0	0	0.450	30	-0.57	0.35	1
BOISE CITY	908	1	38.0	30	-6.7	65	5	15	17	811	202	0	0	0.001	30	-0.72	0.00	17
BUFFALO	1243	1	48.2	30	1.1	75	1	19	21	506	-31	2	2	0.330	30	-1.29	0.13	5
FARGO	3070	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.172	30	-1.13	0.11	1
GAGE	3407	1	39.6	30	-7.2	69	2	13	17	763	217	0	0	0.121	30	-0.95	0.05	1
GATE	3489	1	40.4	30	-5.1	71	1	19	17	739	154	0	0	0.581	30	-0.52	0.43	1
GOODWELL	3628	1	39.1	30	-4.7	73	1	15	17	776	140	0	0	0.001	30	-0.73	0.00	12
GUYMON	3835	1	38.8	26	*****	73	1	16	14	683	*****	0	*****	0.600	26	*****	0.60	1
HOOKER	4298	1	39.8	30	-4.8	68	5	17	13	757	145	0	0	0.111	30	-0.67	0.11	11
KENTON	4766	1	36.9	25	*****	69	30	11	18	702	*****	0	*****	0.030	27	*****	0.01	30
LAVERNE	5045	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.821	30	-0.35	0.57	1
RANGE	7412	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.003	30	*****	0.00	11
REGNIER	7534	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.001	30	-0.56	0.00	18
TURPIN	9017	1	39.3	23	*****	74	1	17	17	591	*****	0	*****	0.450	28	*****	0.32	1

NOVEMBER 2000 SUMMARY FOR NORTH CENTRAL CLIMATE DIVISION (CD2)

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
ALVA	193	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.861	30	*****	0.49	1
VANCE AFB	302	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.492	30	*****	1.07	2
BILLINGS	755	2	41.7	30	-5.7	79	1	18	17	706	178	7	7	1.732	30	-0.54	1.10	6
BLACKWELL 2E	818	2	42.4	30	-5.2	78	1	20	18	685	163	6	6	2.361	30	0.08	1.42	6
BRAMAN	1075	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.620	30	*****	1.53	6
CEDARDALE	1620	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.491	30	*****	0.25	1
CHEROKEE	1724	2	41.8	30	-6.1	76	2	20	18	698	185	2	2	1.321	30	-0.20	0.70	6
ENID	2912	2	42.8	30	-5.8	78	1	20	17	669	177	2	2	2.271	30	0.06	0.99	2
FT SUPPLY	3304	2	38.5	29	-7.0	68	2	2	26	768	183	0	0	0.161	30	-1.10	0.06	11
FREEDOM	3358	2	40.9	30	-6.1	75	1	17	17	723	183	0	0	0.551	30	-0.80	0.36	1
GREAT SALT P	3740	2	42.2	30	-4.6	77	1	21	17	686	140	2	2	2.360	30	0.53	1.17	6
HARDY	3909	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.442	30	*****	1.80	6
HELENA	4019	2	41.3	30	-4.7	77	1	18	17	712	142	2	2	1.323	30	-0.49	0.84	1
JEFFERSON	4573	2	41.3	30	-6.7	79	1	17	18	714	204	4	4	2.250	30	0.07	0.88	2
LAHOMA	4950	2	42.4	30	*****	78	1	15	14	677	*****	0	*****	3.220	30	*****	2.30	1
LAMONT	5013	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.641	30	*****	1.30	6
MEDFORD	5768	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.462	30	*****	1.15	1
MORRISON	6065	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.892	30	*****	0.90	6
MUTUAL	6139	2	39.7	29	-6.5	68	2	18	18	734	170	0	0	0.491	30	-0.91	0.30	1
NEWKIRK	6278	2	40.9	30	-7.1	79	1	17	18	727	217	4	4	2.682	30	0.27	1.22	6
ORIENTA	6751	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.994	30	-0.73	0.55	1
PERRY	7012	2	44.2	27	*****	80	2	21	17	565	*****	4	*****	1.211	29	*****	1.06	6
PONCA CITY	7201	2	41.7	30	-5.6	74	1	17	17	699	168	0	0	2.541	30	0.28	1.34	6
RED ROCK	7505	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.242	30	0.15	1.25	5
WAYNOKA	9404	2	41.0	30	-7.0	73	1	16	17	722	212	0	0	0.060	30	-1.47	0.06	1
WOODWARD	9760	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.142	30	-1.23	0.12	6

NOVEMBER 2000 SUMMARY FOR NORTHEAST CLIMATE DIVISION (CD3)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV		MIN TEMP	DAY	HEAT DEG		DEV FROM		COOL DEG		DEV FROM		TOT PPT	NUM OBS	DEV	
					FROM NORM	MAX TEMP			DAY	DAY	FROM NORM	DAY	FROM NORM	DAY	FROM NORM	MAX 24-HR			DAY	
BARNSDALL	535	3	****	0	****	****	0	****	0	****	****	****	****	****	0.000	30	-2.98	0.00	30	
BARTLESVILLE	548	3	43.3	30	-5.9	80	1	16	21	655	181	5	5	1.300	30	-1.42	0.54	9		
BIXBY	782	3	42.5	29	-5.9	76	2	19	22	654	156	0	0	5.740	30	2.60	1.00	1		
BURBANK	1256	3	****	0	****	****	0	****	0	****	****	****	****	1.522	30	-1.02	0.72	8		
CHELSEA	1717	3	****	0	****	****	0	****	0	****	****	****	****	3.130	30	****	1.07	2		
CLAREMORE	1828	3	42.4	30	-6.1	80	1	17	21	687	192	9	9	3.852	30	0.62	1.02	9		
CLEVELAND 2	1902	3	****	0	****	****	0	****	0	****	****	****	****	0.000	30	****	0.00	30		
FORAKER	3250	3	****	0	****	****	0	****	0	****	****	****	****	0.000	30	-2.58	0.00	30		
HOLLOW	4258	3	****	0	****	****	0	****	0	****	****	****	****	1.893	30	-1.61	0.82	2		
HOMINY	4289	3	****	0	****	****	0	****	0	****	****	****	****	1.981	30	-0.65	0.95	8		
KANSAS	4672	3	42.7	27	****	80	4	18	22	602	****	0	****	4.624	30	0.77	1.55	7		
LENAPAH	5118	3	****	0	****	****	0	****	0	****	****	****	****	1.520	30	****	0.45	9		
MANNFORD	5522	3	42.8	30	-7.1	78	1	16	17	669	216	3	3	2.170	30	-0.67	0.68	9		
MARAMEC	5540	3	****	0	****	****	0	****	0	****	****	****	****	1.900	30	-0.73	0.60	9		
NOWATA	6485	3	43.7	30	-5.6	75	1	16	17	645	174	5	5	1.940	30	-1.30	0.97	23		
PAWHUSKA	6935	3	42.4	30	-6.2	74	2	15	17	681	189	3	3	1.852	30	-0.97	1.01	9		
PAWNEE	6940	3	****	0	****	****	0	****	0	****	****	****	****	1.631	30	-0.90	1.00	9		
PRYOR	7309	3	43.3	30	-4.6	79	3	18	21	660	147	8	8	4.952	30	1.33	1.75	2		
RALSTON	7390	3	41.5	30	-7.6	75	1	13	17	707	230	0	0	1.272	29	****	0.55	9		
SKIATOOK	8258	3	****	0	****	****	0	****	0	****	****	****	****	2.110	30	-0.93	0.46	9		
SPAVINAW	8380	3	45.1	30	-6.2	79	1	18	17	606	191	8	8	5.571	30	1.83	1.97	2		
TULSA	8992	3	43.8	30	-6.1	75	1	20	17	637	184	1	1	3.522	30	0.39	0.87	24		
UPPER SPAV	9101	3	44.7	26	****	76	1	18	21	534	****	7	****	5.164	28	****	1.60	2		
VINITA	9203	3	42.8	30	-5.7	78	1	18	21	669	174	4	4	3.730	30	-0.10	1.24	2		
WAGONER	9247	3	44.6	29	-6.4	75	1	19	17	599	174	6	6	4.210	29	****	1.36	6		
WANN	9298	3	****	0	****	****	0	****	0	****	****	****	****	1.671	30	****	1.00	9		
WYNONA	9792	3	****	0	****	****	0	****	0	****	****	****	****	1.522	30	****	0.74	9		

NOVEMBER 2000 SUMMARY FOR WEST CENTRAL CLIMATE DIVISION (CD4)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV		MIN TEMP	DAY	HEAT DEG		DEV FROM		COOL DEG		DEV FROM		TOT PPT	NUM OBS	DEV	
					FROM NORM	MAX TEMP			DAY	DAY	FROM NORM	DAY	FROM NORM	DAY	FROM NORM	MAX 24-HR			DAY	
CANTON DAM	1445	4	39.3	25	****	77	1	19	17	644	****	0	****	2.630	30	0.85	1.78	1		
CLINTON	1909	4	42.5	25	****	74	1	11	17	562	****	0	****	1.415	29	****	0.65	1		
COLONY	2039	4	****	0	****	****	0	****	0	****	****	****	****	1.175	30	****	0.60	8		
CORDELL	2125	4	42.7	30	-6.5	74	1	20	18	672	198	3	3	0.902	30	-0.85	0.35	8		
ELK CITY	2849	4	42.3	29	-6.3	74	1	18	18	657	165	0	0	1.870	30	0.22	1.20	1		
ERICK	2944	4	42.4	30	-6.5	73	3	19	17	678	195	0	0	0.590	30	-0.74	0.27	8		
GEARY	3497	4	41.5	30	-7.0	76	1	21	17	705	210	0	0	0.980	30	-0.70	0.40	8		
HAMMON	3871	4	39.8	28	****	75	1	15	18	707	****	0	****	0.540	28	****	0.29	1		
LEEDEY	5090	4	****	0	****	****	0	****	0	****	****	****	****	0.750	30	-0.80	0.45	6		
MACKIE	5463	4	****	0	****	****	0	****	0	****	****	****	****	0.381	30	****	0.19	7		
MORAVIA	6035	4	****	0	****	****	0	****	0	****	****	****	****	1.471	30	0.09	0.55	6		
OKEENE	6629	4	43.2	31	-6.1	73	1	20	16	675	204	0	0	1.550	31	-0.40	0.62	1		
RETROP	7565	4	****	0	****	****	0	****	0	****	****	****	****	1.230	30	****	0.40	6		
REYDON	7579	4	40.9	30	-6.7	71	3	18	13	723	201	0	0	0.980	30	-0.17	0.40	5		
SAYRE	7952	4	****	0	****	****	0	****	0	****	****	****	****	0.540	30	-0.81	0.22	1		
SWEETWATER	8652	4	****	0	****	****	0	****	0	****	****	****	****	0.341	30	****	0.24	6		
TALOGA	8708	4	41.2	30	-6.3	75	1	17	17	717	189	1	1	2.401	30	0.60	1.52	1		
THOMAS	8815	4	****	0	****	****	0	****	0	****	****	****	****	0.990	30	****	0.58	1		
VICI	9172	4	****	0	****	****	0	****	0	****	****	****	****	0.180	30	-1.41	0.10	7		
WATONGA	9364	4	40.7	29	-7.7	72	1	20	17	704	206	0	0	1.792	30	-0.02	0.89	1		
WEATHERFORD	9422	4	43.2	30	-4.5	75	1	20	17	658	139	3	3	0.942	29	****	0.35	8		

NOVEMBER 2000 SUMMARY FOR CENTRAL CLIMATE DIVISION (CD5)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
AMBER	200	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.730	30	*****	0.77	24
ARCADIA	288	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	*****	0	*****	*****	0
BLANCHARD	830	5	45.0	30	-6.2	76	2	21	17	605	191	5	5	3.630	30	1.53	0.95	4
BRISTOW	1144	5	44.4	30	-6.1	77	2	19	21	623	183	5	-1	4.770	30	1.88	1.18	2
CHANDLER	1684	5	49.0	19	*****	82	1	29	10	313	*****	9	*****	3.550	30	1.07	1.10	4
CHICKASHA EXP	1750	5	45.0	30	-5.8	75	2	22	17	604	178	5	5	3.491	30	1.54	0.73	24
COX CITY	2196	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.740	29	*****	1.41	24
CRESCENT	2242	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.660	30	*****	0.77	9
CUSHING	2318	5	43.8	30	-5.5	80	1	21	17	644	173	8	8	2.450	30	-0.13	0.90	9
EDMOND	2788	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.160	30	*****	0.65	23
EL RENO	2818	5	43.8	29	-5.1	78	1	21	17	620	137	6	6	2.110	30	0.36	0.70	24
GUTHRIE	3821	5	43.3	30	-7.0	80	1	17	18	659	218	8	8	2.720	30	0.43	0.65	9
HENNESSEY	4055	5	40.8	28	*****	71	2	20	17	679	*****	0	*****	1.781	30	-0.16	0.59	5
INGALLS	4489	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.970	30	*****	0.74	9
KINGFISHER	4861	5	43.2	30	-6.4	80	1	20	18	657	195	4	4	2.050	30	0.14	0.58	6
KONAWA	4915	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.630	30	1.90	1.65	24
MARSHALL	5589	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.310	30	-0.60	0.57	6
MEEKER	5779	5	41.4	29	-9.0	77	1	17	18	688	250	5	5	4.280	30	1.72	0.76	2
MULHALL	6110	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.450	30	*****	0.73	5
NORMAN NWS	6386	5	43.3	30	-7.8	75	2	21	18	651	234	0	0	4.523	30	2.04	1.04	8
OKEMAH	6638	5	47.3	30	-3.9	81	2	26	17	538	124	8	8	5.390	30	2.45	1.26	6
OKLAHOMA CTY	6659	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	*****	0	*****	*****	0
OKLAHOMA CTY	6661	5	43.3	30	-6.3	75	1	23	17	653	191	0	0	2.791	30	0.81	0.86	24
PERKINS	7003	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.620	30	0.18	0.94	23
PIEDMONT	7068	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.870	30	*****	0.71	25
PRAGUE	7264	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.110	30	2.44	1.07	1
PURCELL	7327	5	44.5	29	-6.4	78	1	21	17	602	179	8	8	4.721	29	*****	1.29	4
SEMINOLE	8042	5	43.9	27	*****	77	2	20	21	571	*****	0	*****	4.450	30	1.53	1.75	3
SHAWNEE	8110	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.092	29	*****	1.05	4
STILLWATER	8501	5	44.3	28	*****	79	1	20	21	586	*****	7	*****	2.053	30	-0.20	0.65	9
STROUD	8563	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.550	30	*****	0.68	9
TECUMSEH	8751	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.420	30	*****	1.80	8
UNION CITY	9086	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.512	30	0.21	0.62	23
WANETTE	9291	5	43.4	28	*****	80	1	13	13	612	*****	9	*****	5.010	28	*****	1.04	26
WELTY	9479	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.591	30	*****	0.72	4
WEWOKA	9575	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.700	30	1.91	1.10	6

NOVEMBER 2000 SUMMARY FOR EAST CENTRAL CLIMATE 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	*****	*****	*****	*****	6.371	30	*****	2.22	6
BEGGS	631	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.000	30	*****	0.00	30
CALVIN	1391	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.370	30	1.40	1.30	5
CHECOTAH	1711	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.580	30	1.27	0.83	9
CLAYTON	1858	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.260	30	*****	0.83	23
DEWAR	2485	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.774	30	3.67	1.80	8
DUSTIN	2690	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.762	30	*****	1.32	6
EUFULA	2993	6	47.1	30	-5.6	75	1	27	21	543	169	6	1	6.950	30	3.51	1.95	6
HANNA	3884	6	44.2	30	-7.5	78	1	19	21	629	230	6	6	6.881	30	3.42	1.60	6
HASKELL	3956	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.000	31	-3.49	0.00	31
HOLDENVILLE	4235	6	44.1	29	-7.8	79	2	21	17	605	208	0	0	3.233	30	0.25	1.10	8
LAKE EUFULA	4975	6	44.2	30	*****	77	1	23	18	632	*****	6	*****	6.551	30	*****	2.20	6
LYONS	5437	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.931	30	2.16	1.72	6
MARBLE CITY	5546	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.820	30	*****	2.40	6
MCALESTER	5664	6	45.2	30	-6.6	77	2	20	21	599	196	4	-4	5.274	30	1.76	1.93	5
MCCURTAIN	5693	6	45.1	29	-7.6	76	2	19	21	583	208	6	-1	7.136	30	2.78	2.20	6
MUSKOGEE	6130	6	43.4	27	*****	79	11	6	20	585	*****	0	*****	5.160	30	1.61	1.34	3
OKMULGEE	6670	6	45.1	29	-4.4	77	2	20	21	578	113	0	0	4.680	30	1.52	1.08	24
OKTAHA	6678	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.300	30	*****	1.27	6
SALLISAW	7862	6	45.0	30	-6.6	80	1	22	21	608	206	8	8	6.970	30	2.86	2.60	6
SCIPIO	7979	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.680	30	*****	1.57	6
SHORT	8170	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.110	30	*****	1.85	6
STILWELL	8506	6	43.3	30	-6.8	76	4	19	16	653	203	0	0	5.010	30	1.23	1.68	6
TAHLEQUAH	8677	6	43.0	30	-7.2	74	2	18	21	664	215	3	-2	5.760	30	2.18	1.63	25
WEBBERS FALL	9445	6	45.1	30	-5.1	82	1	20	22	607	163	10	10	6.430	30	3.06	1.91	6
WETUMKA	9571	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.714	30	2.50	1.34	6

NOVEMBER 2000 SUMMARY FOR SOUTHWEST CLIMATE DIVISION (CD7)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV		MIN DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
					FROM NORM	MAX TEMP												
ALTUS	179	7	44.4	29	-7.7	75	2	23	17	601	214	2	2	2.280	29	*****	0.82	24
ALTUS DAM	184	7	45.4	30	-4.2	77	1	22	14	594	132	5	5	1.880	30	0.52	0.54	24
ANADARKO	224	7	42.1	30	-7.8	76	1	20	17	692	239	6	6	2.550	30	0.82	0.95	24
APACHE	260	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.890	30	1.08	0.90	4
ALTUS AFB	447	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.333	30	*****	0.15	9
CARNEGIE	1504	7	43.4	30	-6.7	74	1	21	12	654	207	5	5	1.962	30	0.36	0.85	24
CHATTANOOGA	1706	7	44.9	29	-6.7	75	1	25	18	588	186	5	5	4.642	30	3.10	1.32	24
DUNCAN 11 W	2668	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.770	30	*****	1.41	24
FREDERICK	3353	7	43.3	19	*****	75	2	24	19	413	*****	0	*****	3.320	22	*****	1.43	9
HEADRICK	3998	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.290	30	*****	0.79	24
HOBART	4204	7	42.9	30	-7.2	70	2	22	17	662	215	0	0	1.273	30	-0.14	0.31	24
HOLLIS	4249	7	44.3	30	-6.3	74	2	20	17	622	190	0	0	1.620	30	0.51	0.69	24
LAWTON	5063	7	45.1	30	-5.5	75	1	25	17	602	170	6	6	4.920	30	3.12	1.15	3
LOOKEBA	5329	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.430	30	-0.36	0.38	24
MANGUM	5509	7	44.1	30	-6.7	78	1	22	18	631	205	4	4	1.152	30	-0.11	0.26	8
RANDLETT	7403	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.451	30	*****	2.15	24
ROOSEVELT	7727	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.010	30	0.53	0.58	24
SEDAN	8016	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.790	30	*****	0.92	25
SNYDER	8299	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.361	30	0.82	0.85	24
VINSON	9212	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.190	30	-0.03	0.39	8
WALTERS	9278	7	45.3	26	*****	76	2	25	22	517	*****	6	*****	6.280	30	4.19	1.75	24
WICHITA MT	9629	7	44.1	29	-4.8	73	3	23	14	611	128	3	3	1.500	30	-0.39	0.79	24
WILLOW	9668	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.160	30	*****	0.38	7

NOVEMBER 2000 SUMMARY FOR SOUTH CENTRAL CLIMATE DIVISION (CD8)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV		MIN DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
					FROM NORM	MAX TEMP												
ADA	17	8	45.0	30	-7.1	77	2	23	18	604	211	4	-2	5.681	30	2.88	1.22	6
ALLEN	147	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.180	30	*****	1.30	5
ARDMORE	292	8	47.2	30	-7.3	76	2	28	16	535	213	1	-6	6.610	30	4.18	1.25	24
ATOKA	391	8	46.3	29	*****	82	4	19	21	554	*****	10	*****	5.220	30	*****	1.76	6
BOKCHITO	917	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	10.890	30	*****	6.00	6
CANEY	1437	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.380	30	*****	2.00	24
CENTRAHOMA	1648	8	45.5	27	*****	79	1	22	22	535	*****	9	*****	6.150	28	*****	2.55	6
CHICKASAW	1745	8	44.7	30	-5.9	77	1	20	14	617	185	7	7	4.730	30	2.06	1.17	6
COLEMAN	2011	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	8.150	30	*****	2.40	8
COMANCHE	2054	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	8.030	30	5.95	3.17	24
DAISY	2354	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	8.682	30	4.68	2.72	6
DUNCAN	2660	8	46.1	30	-5.3	76	1	24	15	574	162	7	7	6.811	30	4.66	1.50	24
DURANT	2678	8	46.1	30	-5.9	80	1	22	20	567	170	1	-7	7.440	30	4.30	1.36	5
ELMORE CITY	2872	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.280	30	*****	1.54	26
GRADY	3688	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.770	30	*****	1.40	23
HEALDTON	4001	8	46.0	25	*****	78	1	26	26	481	*****	7	*****	5.580	25	*****	2.03	26
HENNEPIN	4052	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.120	30	*****	1.25	24
KETCHUM RAN	4780	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.810	30	*****	1.75	26
KINGSTON	4865	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.011	30	3.18	1.57	5
LEHIGH	5108	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.553	30	*****	1.65	6
LINDSAY	5216	8	43.1	30	-8.2	76	1	22	20	658	247	0	0	4.650	30	2.43	1.20	3
LOCO	5247	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.260	30	*****	1.66	24
MADILL	5468	8	46.7	29	-7.1	79	1	26	21	539	197	9	3	6.430	30	3.63	1.47	6
MARIETTA 5 S	5563	8	45.9	30	-7.7	77	1	21	22	579	230	7	0	6.010	30	3.41	1.27	6
MARLOW	5581	8	45.8	29	-5.7	76	2	20	14	563	158	6	6	6.680	30	4.54	1.56	4
MCGEE CREEK	5713	8	47.1	30	*****	79	1	25	21	544	*****	8	*****	8.440	30	*****	2.45	6
PAULS VALLEY	6926	8	44.5	30	-7.6	78	1	21	18	623	231	7	7	6.370	30	3.84	1.80	24
PONTOTOC	7214	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.590	30	2.63	1.81	5
TISHOMINGO	8884	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.250	30	1.23	2.50	24
TUSSY	9032	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.060	30	*****	2.40	23
WAURIKA	9395	8	47.8	30	-5.3	75	1	25	14	520	157	5	-1	5.342	30	3.52	2.25	24

NOVEMBER 2000 SUMMARY FOR SOUTHEAST CLIMATE DIVISION (CD9)

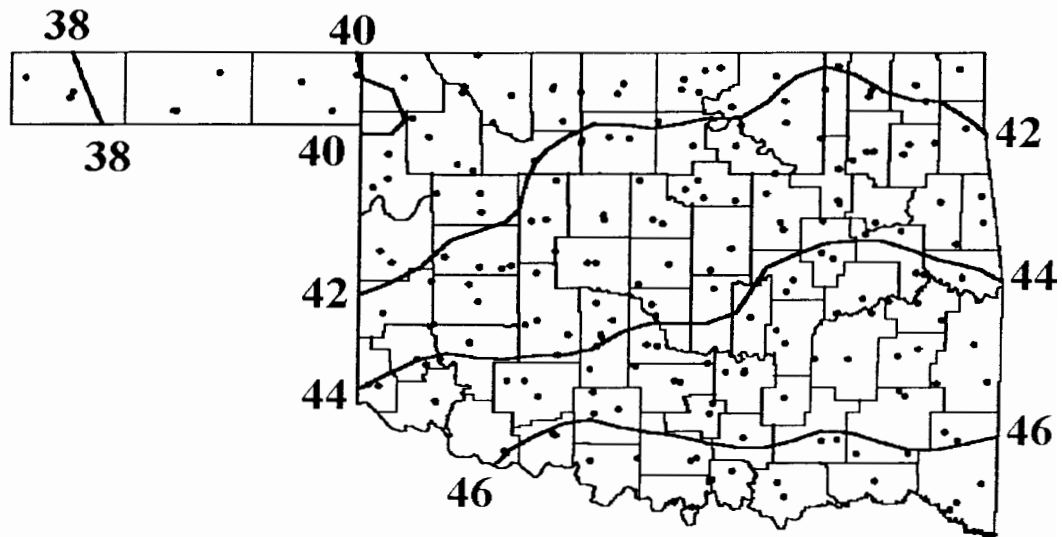
NAME	ID	CD	MEAN TEMP	NUM OBS	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
ANTLERS	256	9	****	0	****	****	0	****	0	*****	*****	*****	*****	*****	0	****	****	0
BATTIEST	567	9	44.6	30	****	75	1	17	21	615	*****	4	*****	10.732	30	****	3.93	6
BENGAL	670	9	****	0	****	****	0	****	0	*****	*****	*****	*****	7.820	30	****	2.40	6
BROKEN BOW	1162	9	****	0	****	****	0	****	0	*****	*****	*****	*****	16.090	30	11.85	4.66	6
CARNASAW	1499	9	****	0	****	****	0	****	0	*****	*****	*****	*****	14.671	30	10.19	4.34	6
CARTER TWR	1544	9	****	0	****	****	0	****	0	*****	*****	*****	*****	12.460	27	****	5.88	6
FANSHAWE	3065	9	****	0	****	****	0	****	0	*****	*****	*****	*****	9.670	30	5.16	2.71	6
HEAVENER	4008	9	****	0	****	****	0	****	0	*****	*****	*****	*****	7.720	30	3.43	2.47	5
IDABEL	4451	9	48.8	30	-3.7	75	3	28	21	488	108	1	-4	17.010	30	12.91	5.62	6
PAGE	6842	9	44.3	29	****	77	2	18	21	609	*****	8	*****	9.322	30	****	3.39	6
POTEAU	7254	9	45.3	30	****	78	1	18	20	590	*****	0	*****	7.640	30	****	2.17	5
SMITHVILLE	8285	9	43.2	26	****	75	1	16	21	571	*****	3	*****	11.161	30	6.78	4.17	6
SPIRO	8416	9	****	0	****	****	0	****	0	*****	*****	*****	*****	6.920	30	2.50	2.00	6
TUSKAHOMA	9023	9	46.3	30	-6.6	78	2	17	21	568	199	6	0	8.302	30	4.17	3.15	6
VALLIANT	9118	9	****	0	****	****	0	****	0	*****	*****	*****	*****	11.870	30	7.71	3.88	6
WILBURTON	9634	9	44.7	30	-6.6	76	2	18	21	613	198	5	5	7.271	30	2.98	2.68	5
WISTER	9724	9	45.4	30	****	80	1	17	17	595	*****	7	*****	7.610	30	****	2.53	6

NOVEMBER 2000 CLIMATE DIVISION SUMMARY

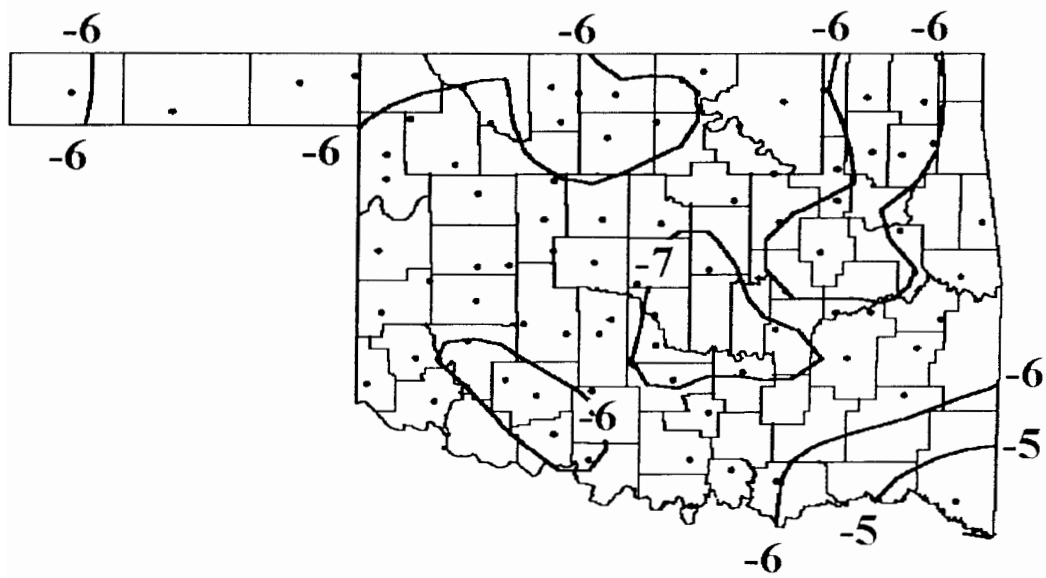
NAME	CD	MEAN TEMP	NUM OBS	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
CLIMATE DIVISION 1	1	40.4	8	-4.7	75	1	11	18	739	142	0	0	0.240	12	-0.77	0.60	1
CLIMATE DIVISION 2	2	41.3	14	-6.1	80	2	2	26	708	181	2	2	1.620	25	-0.24	2.30	1
CLIMATE DIVISION 3	3	43.2	12	-6.2	80	4	13	17	656	185	4	4	2.420	24	-0.66	1.97	2
CLIMATE DIVISION 4	4	42.0	9	-6.2	77	1	11	17	688	185	1	1	1.150	18	-0.47	1.78	1
CLIMATE DIVISION 5	5	44.0	12	-6.3	82	1	13	13	628	189	5	5	3.110	30	0.71	1.80	8
CLIMATE DIVISION 6	6	44.7	11	-6.5	82	1	6	20	609	192	4	2	5.410	26	1.93	2.60	6
CLIMATE DIVISION 7	7	44.1	10	-6.6	78	1	20	17	625	195	4	4	2.640	21	1.08	2.15	24
CLIMATE DIVISION 8	8	45.9	13	-6.6	82	4	19	21	575	193	5	2	6.260	29	3.64	6.00	6
CLIMATE DIVISION 9	9	45.6	7	-6.5	80	1	16	21	582	191	4	1	10.250	15	6.00	5.88	6

MESONET MONTHLY SUMMARY FOR NOVEMBER 2000

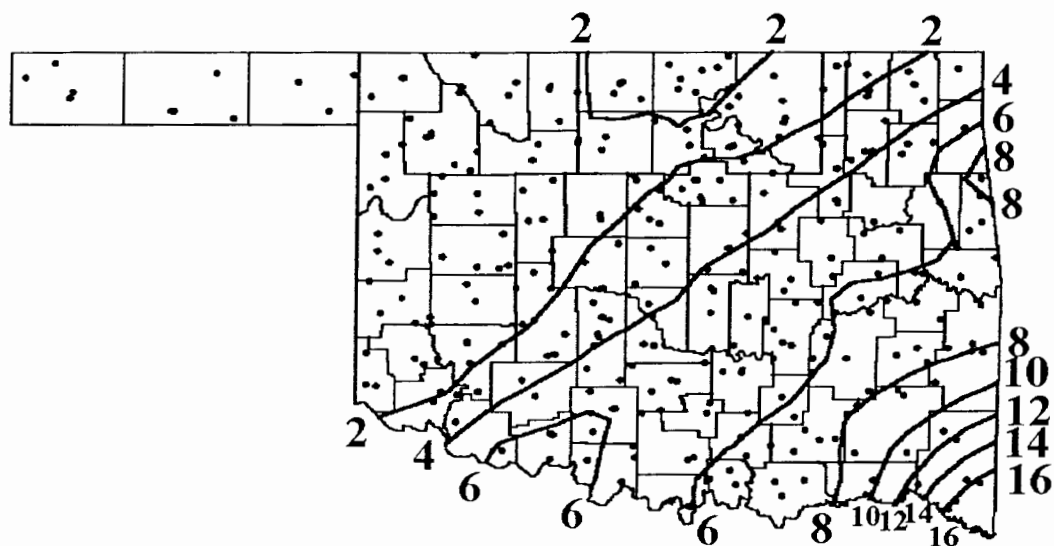
NAME	MEAN TEMP	MAX TEMP	MIN			HDD	CDD	PPT	MAX 24-HR	DAY	NAME	MEAN TEMP	MAX TEMP	MIN			HDD	CDD	PPT	MAX 24-HR	DAY
			DAY	TEMP	DAY									TEMP	DAY	TEMP					
PANHANDLE																					
Arnett	41.0	69	2	17	14	720	0	0.17	0.09	5	Goodwell	38.3	66	5	15	13	802	0	0.02	0.01	11
Beaver	39.2	70	5	14	14	774	0	0.07	0.07	11	Hooker	38.5	68	5	15	13	796	0	0.07	0.07	11
Boise City	36.9	69	30	14	12	843	0	0.07	0.07	11	Kenton	37.0	68	30	13	18	841	0	0.06	0.06	11
Buffalo	40.0	68	1	16	17	749	0	0.29	0.15	11	Slapout	40.0	67	1	16	14	748	0	0.13	0.06	5
NORTH CENTRAL																					
Alva	41.2	72	1	16	17	714	0	0.66	0.27	5	May Ranch	40.7	68	1	17	17	729	0	0.73	0.30	1
Blackwell	41.8	73	1	19	17	696	0	2.47	1.61	6	Medford	41.5	72	1	18	17	704	0	2.21	1.83	1
Breckenridge	42.0	75	1	19	17	691	0	*****	*****	**	Newkirk	41.3	72	2	16	17	712	0	2.73	1.70	6
Cherokee	41.6	72	1	20	17	702	0	1.32	0.64	5	Red Rock	42.1	75	1	18	17	687	0	2.44	1.17	6
Fairview	42.3	72	1	20	17	681	0	1.00	0.60	1	Seiling	40.8	69	1	17	17	724	0	0.72	0.36	5
Freedom	40.7	68	1	18	13	730	0	0.44	0.20	23	Woodward	41.2	70	1	17	17	73	0	0.48	0.31	1
Lahoma	41.8	72	1	20	17	696	0	2.98	2.19	1											
NORTHEAST																					
Bixby	43.7	77	1	19	21	640	0	5.29	1.11	24	Nowata	41.4	74	1	15	21	709	0	1.99	0.73	1
Burbank	41.8	74	1	15	17	696	0	1.85	0.62	6	Pawnee	42.4	75	1	16	17	677	0	1.60	0.70	8
Catoosa	43.3	76	2	18	17	652	0	4.02	0.89	24	Porter	44.2	77	1	21	21	65	2	4.22	0.97	24
Claremore	42.4	75	2	15	17	677	0	4.00	0.77	24	Pryor	42.3	75	1	18	21	682	1	4.38	1.52	1
Copan	42.1	73	1	17	17	688	0	1.59	0.62	8	Skiatook	43.1	73	1	17	17	688	0	1.99	0.51	6
Foraker	41.2	74	1	14	17	714	0	1.79	0.48	8	Vinita	41.0	74	1	14	17	720	0	2.04	0.55	8
Jay	41.5	74	2	16	21	703	0	3.88	0.84	1	Wynona	42.7	74	1	17	17	670	0	1.53	0.66	8
Miami	41.3	73	1	16	21	712	0	2.39	0.60	1											
WEST CENTRAL																					
Bessie	43.4	72	2	21	17	647	0	0.95	0.30	1	Putnam	41.7	71	1	17	17	700	0	1.25	0.63	1
Butler	42.6	73	2	18	17	672	0	1.84	1.35	1	Retrop	43.2	73	2	21	17	654	0	0.94	0.32	8
Canargo	41.1	70	1	16	17	718	0	0.66	0.35	1	Watonga	42.1	70	1	20	17	687	0	1.34	0.74	1
Cheyenne	42.0	70	2	20	13	690	0	0.83	0.36	5	Weatherford	42.0	69	1	21	17	689	0	0.95	0.37	1
Erick	42.4	71	2	18	17	679	0	0.81	0.32	1											
CENTRAL																					
Acme	43.8	75	1	20	14	635	0	4.36	1.60	3	Minco	43.2	75	1	21	17	653	0	3.28	1.10	24
Bowlegs	43.6	76	2	20	21	641	0	5.06	1.01	8	Ninnekah	44.2	76	1	22	14	625	0	3.96	1.23	3
Bristow	43.0	76	2	19	21	658	0	4.56	1.06	1	Norman	44.0	75	1	23	17	630	0	3.99	0.77	24
Chandler	43.6	75	2	21	17	641	0	4.03	0.81	8	Oilton	41.9	75	1	15	17	694	0	2.96	0.68	8
Chickasha	44.0	75	1	23	17	628	0	3.32	1.03	3	Okemah	43.5	76	2	20	17	646	0	5.96	0.99	24
El Reno	41.8	76	1	17	17	694	0	2.54	0.70	24	Perkins	43.2	76	1	21	17	654	0	2.47	0.83	6
Guthrie	43.2	77	1	21	13	654	0	3.12	1.33	6	Shawnee	43.6	74	2	20	17	641	0	4.09	0.85	8
Kingfisher	42.7	75	1	20	17	668	0	1.81	0.59	9	Spencer	43.5	75	1	20	17	643	0	3.82	0.80	6
Marena	42.7	77	1	20	13	670	0	2.34	0.67	6	Stillwater	42.6	76	1	18	17	673	0	1.98	0.58	8
Marshall	42.5	76	1	18	17	674	0	1.79	0.81	6	Washington	44.6	76	1	22	13	612	0	4.55	1.46	3
EAST CENTRAL																					
Calvin	44.5	77	2	20	21	613	0	4.80	0.99	8	Sallisaw	44.7	76	2	19	21	613	5	6.67	1.80	5
Cookson	42.4	73	2	18	21	679	1	5.82	1.37	5	Stigler	44.7	76	1	19	21	612	4	6.57	1.51	5
Eufaula	45.2	77	1	24	17	599	4	6.41	1.29	5	Stuart	45.3	75	1	23	17	594	3	5.91	1.56	5
Haskell	43.9	77	1	20	17	635	2	4.46	0.92	24	Tahlequah	42.3	74	2	17	21	682	2	4.78	0.90	5
Hectorville	44.2	76	1	21	17	624	0	4.96	1.19	24	Webbers Falls	44.9	77	1	19	21	607	4	5.30	1.43	5
McAlester	44.7	77	2	19	21	613	3	5.81	2.03	5	Westville	42.4	73	2	18	17	678	1	6.85	1.46	4
Okmulgee	43.4	77	1	19	21	649	0	5.59	0.99	24											
SOUTHWEST																					
Altus	44.9	73	2	25	17	602	0	1.98	0.54	3	Hollis	44.5	74	2	21	17	614	0	1.26	0.55	23
Apache	44.0	74	1	21	17	630	0	2.74	0.88	3	Mangum	43.1	72	1	18	17	656	0	1.31	0.35	23
Fort Cobb	43.9	75	2	23	13	632	0	2.03	0.78	24	Medicine Park	44.9	73	2	25	13	602	0	3.14	1.09	3
Grandfield	46.2	75	2	24	13	564	0	7.96	4.07	3	Tipton	****	***	**	***	**	*****	****	2.62	0.81	3
Hinton	42.4	73	2	21	13	679	0	1.19	0.32	9	Walters	46.0	74	1	24	17	568	0	6.43	2.65	3
Hobart	43.1	71	2	22	17	656	0	1.57	0.34	24											
SOUTH CENTRAL																					
Ada	44.8	78	2	22	17	605	0	4.87	1.02	8	Madill	46.8	76	1	23	14	547	0	5.79	1.05	5
Andmore	46.5	76	2	26	13	554	0	6.52	1.43	5	Pauls Valley	45.5	77	2	24	17	584	0	5.38	1.19	3
Burneyville	46.7	77	2	23	21	548	0	5.38	1.35	5	Ringling	46.8	75	2	26	21	546	0	5.28	1.08	23
Byars	45.1	75	2	22	17	597	0	4.90	0.94	8	Sulphur	44.7	76	1	20	14	610	0	3.85	0.87	8
Centrahoma	44.6	77	1	19	14	612	0	5.67	1.98	5	Tishomingo	45.8	78	2	21	21	575	0	5.64	1.75	5
Durant	47.5	78	1	26	21	528	3	7.84	1.72	3	Vanoss	44.7	77	2	22	17	610	0	5.08	1.11	24
Ketchum Ranch	45.4	74	1	23	17	589	0	5.45	1.42	3	Waurika	46.9	76	1	25	14	543	1	5.62	1.36	23
Lane	46.6	78	1	21	21	555	4	7.02	1.59	5											
SOUTHEAST																					
Antlers	45.2	78	1	15	21	598	3	9.49	2.64	5	Idabel	47.7	75	1	23	21	524	4	18.41	4.83	5
Broken Bow	47.6	76	1	20	21	489	2	17.92	3.93	23	Mt Herman	45.6	74	2	22	21	542	0	12.69	2.87	23
Clayton	46.0	77	1	19	21	575	4	7.86	1.78	5	Talihina	45.1	78	1	17	21	601	4	8.34	1.70	5
Cloudy	45.8	75	1	20	21	578	1	10.55	3.09	23	Wilburton	44.4	77	1	18	21	618	1	7.47	1.70	5
Hugo	47.2	75	1	23	21	537	2	9.62	2.31	5	Wister	44.1	77	1	16	21	630	3	6.96	1.69	5



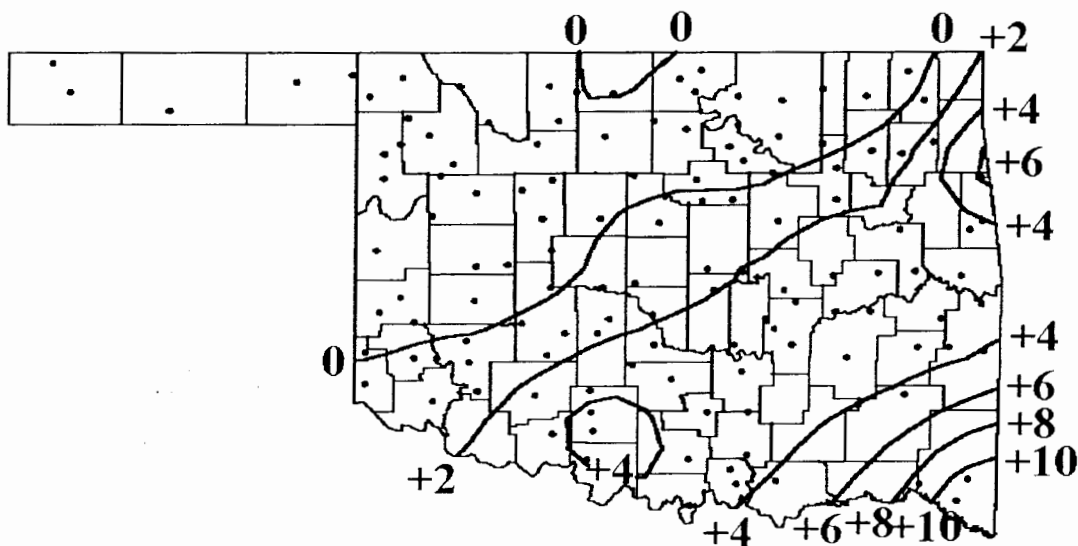
NOVEMBER 2000 AVERAGE MONTHLY TEMPERATURE (F)



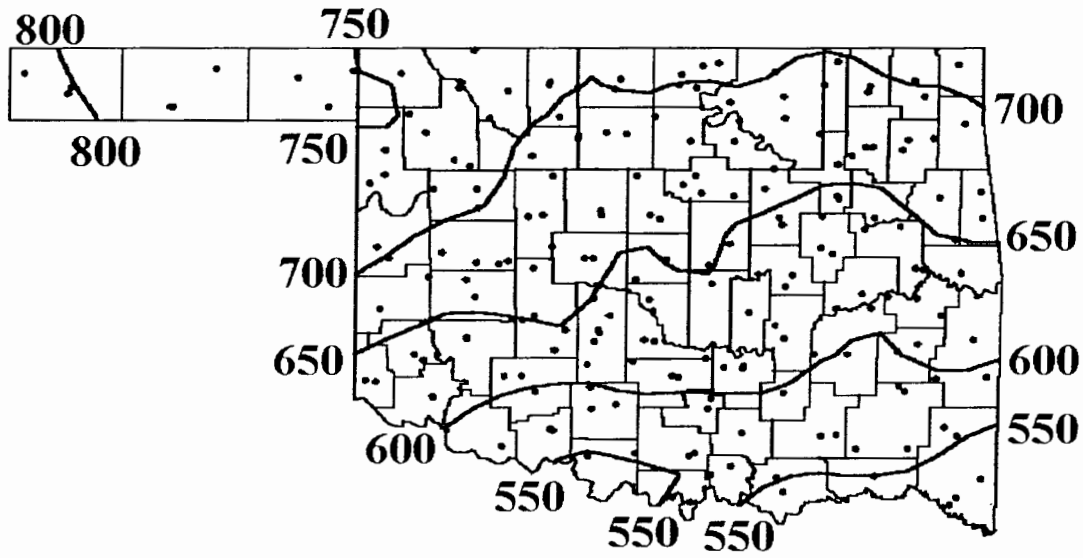
NOVEMBER 2000 DEPARTURE FROM NORMAL TEMPERATURE (F)



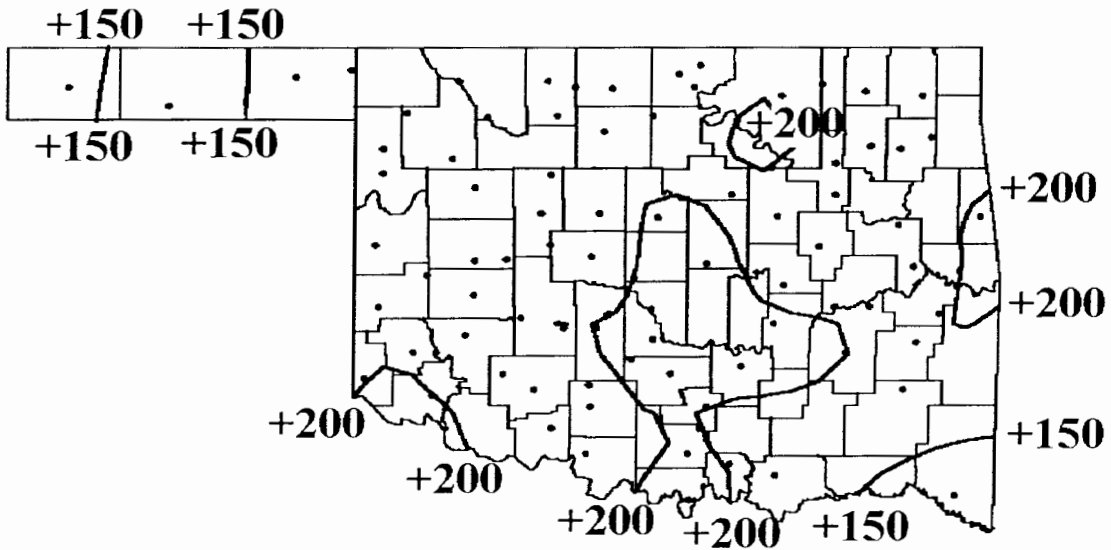
NOVEMBER 2000 TOTAL PRECIPITATION (INCHES)



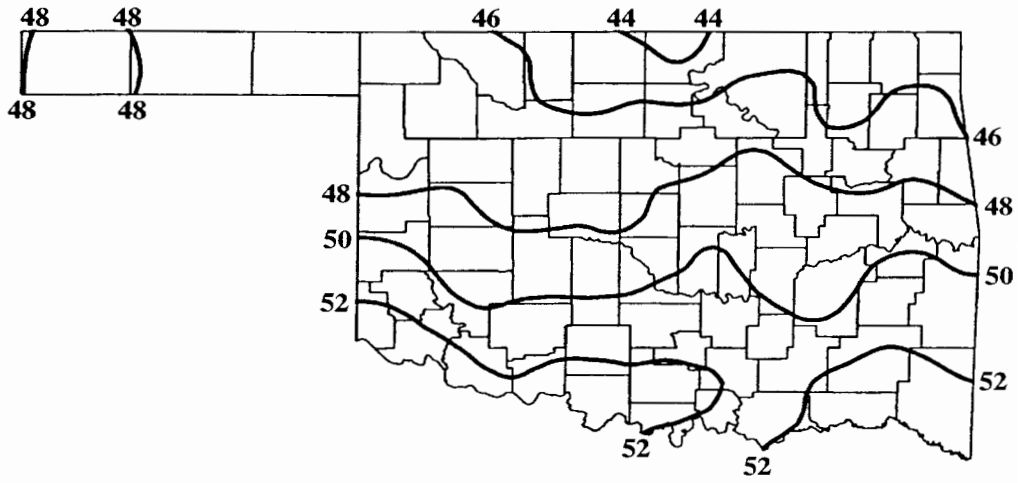
NOVEMBER 2000 DEPARTURE FROM NORMAL PRECIPITATION (INCHES)



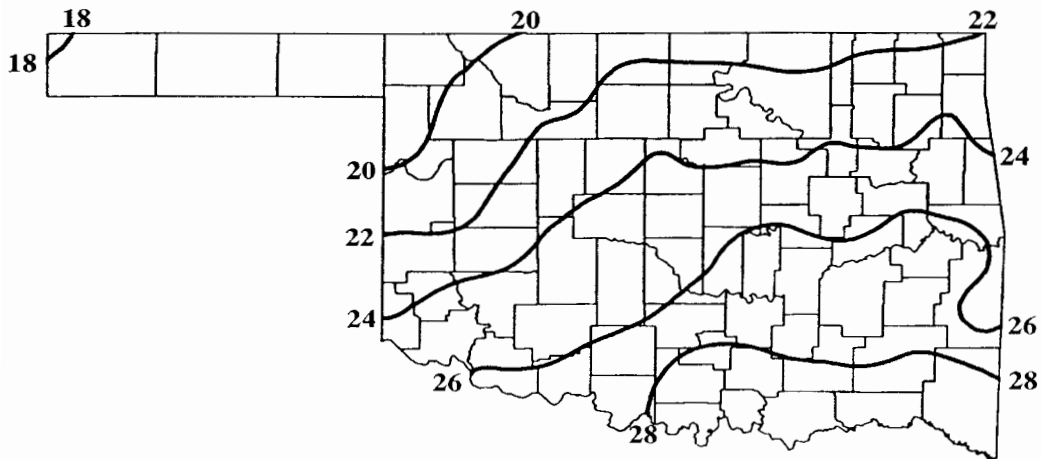
NOVEMBER 2000 ACCUMULATED HEATING DEGREE DAYS (F)



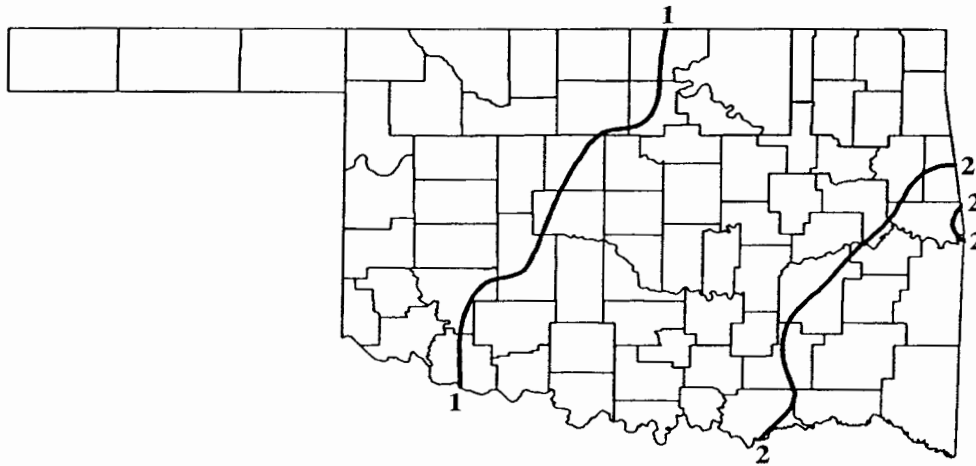
NOVEMBER 2000 DEPARTURE FROM NORMAL HEATING DEGREE DAYS (F)



JANUARY NORMAL DAILY MAXIMUM TEMPERATURE (F)



JANUARY NORMAL DAILY MINIMUM TEMPERATURE (F)



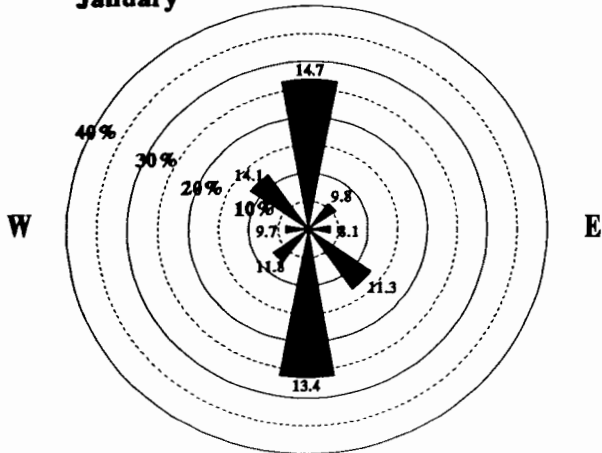
JANUARY NORMAL MONTHLY PRECIPITATION (INCHES)

**OUTLOOK FOR JANUARY 2001 THROUGH MARCH 2001
BASED ON SEASONAL OUTLOOK PROVIDED BY THE CLIMATE PREDICTION CENTER**

TEMPERATURE: NEAR NORMAL TEMPERATURE STATEWIDE

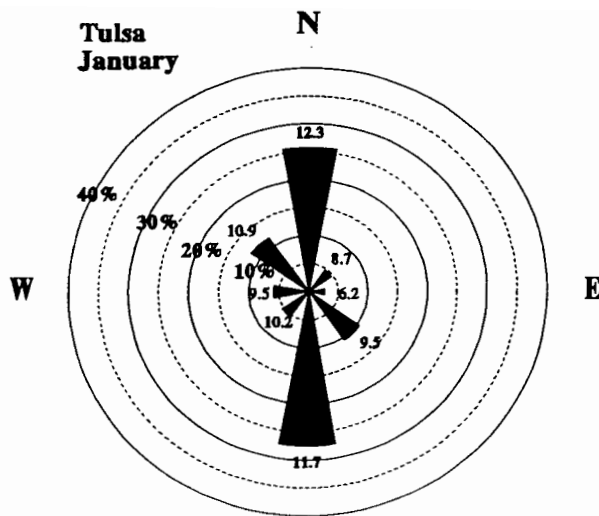
**PRECIPITATION: ABOVE NORMAL SOUTHEAST REGION
NEAR NORMAL PRECIPITATION ELSEWHERE.**

**Oklahoma City
January**



Calm=1.8%
Mean Speed= 11.5 mph

**Tulsa
January**



Calm=5.8%
Mean Speed= 10.3 mph

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

JANUARY SUNRISE/SUNSET TIMES FOR 2001

ALL TIMES ARE CENTRAL STANDARD TIME

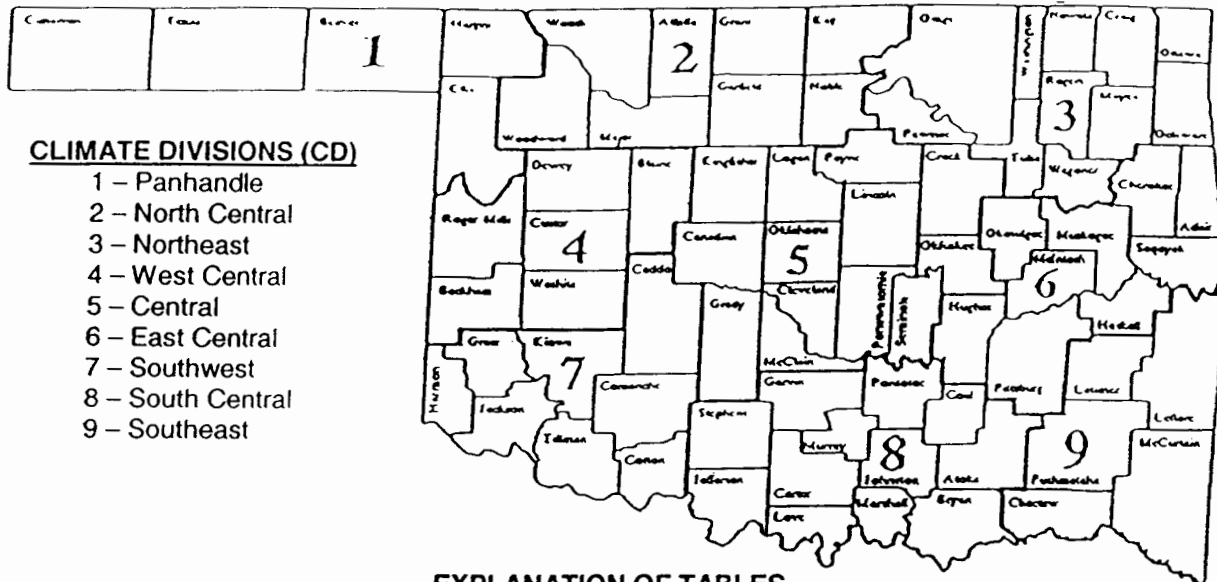
OKLAHOMA CITY

<u>DATE</u>	<u>SUNRISE</u>	<u>SUNSET</u>
1/1/01	7:39 AM	5:28 PM
1/2/01	7:40 AM	5:29 PM
1/3/01	7:40 AM	5:30 PM
1/4/01	7:40 AM	5:31 PM
1/5/01	7:40 AM	5:32 PM
1/6/01	7:40 AM	5:33 PM
1/7/01	7:40 AM	5:33 PM
1/8/01	7:40 AM	5:34 PM
1/9/01	7:40 AM	5:35 PM
1/10/01	7:40 AM	5:36 PM
1/11/01	7:40 AM	5:37 PM
1/12/01	7:39 AM	5:38 PM
1/13/01	7:39 AM	5:39 PM
1/14/01	7:39 AM	5:40 PM
1/15/01	7:39 AM	5:41 PM
1/16/01	7:38 AM	5:42 PM
1/17/01	7:38 AM	5:43 PM
1/18/01	7:38 AM	5:44 PM
1/19/01	7:37 AM	5:45 PM
1/20/01	7:37 AM	5:46 PM
1/21/01	7:37 AM	5:47 PM
1/22/01	7:36 AM	5:48 PM
1/23/01	7:36 AM	5:49 PM
1/24/01	7:35 AM	5:50 PM
1/25/01	7:34 AM	5:51 PM
1/26/01	7:34 AM	5:52 PM
1/27/01	7:33 AM	5:53 PM
1/28/01	7:33 AM	5:54 PM
1/29/01	7:32 AM	5:55 PM
1/30/01	7:31 AM	5:56 PM
1/31/01	7:30 AM	5:57 PM

TULSA

<u>DATE</u>	<u>SUNRISE</u>	<u>SUNSET</u>
1/1/01	7:35 AM	5:20 PM
1/2/01	7:35 AM	5:21 PM
1/3/01	7:35 AM	5:22 PM
1/4/01	7:35 AM	5:23 PM
1/5/01	7:35 AM	5:24 PM
1/6/01	7:35 AM	5:25 PM
1/7/01	7:35 AM	5:25 PM
1/8/01	7:35 AM	5:26 PM
1/9/01	7:35 AM	5:27 PM
1/10/01	7:35 AM	5:28 PM
1/11/01	7:35 AM	5:29 PM
1/12/01	7:35 AM	5:30 PM
1/13/01	7:34 AM	5:31 PM
1/14/01	7:34 AM	5:32 PM
1/15/01	7:34 AM	5:33 PM
1/16/01	7:34 AM	5:34 PM
1/17/01	7:33 AM	5:35 PM
1/18/01	7:33 AM	5:36 PM
1/19/01	7:33 AM	5:37 PM
1/20/01	7:32 AM	5:38 PM
1/21/01	7:32 AM	5:39 PM
1/22/01	7:31 AM	5:40 PM
1/23/01	7:31 AM	5:41 PM
1/24/01	7:30 AM	5:42 PM
1/25/01	7:29 AM	5:43 PM
1/26/01	7:29 AM	5:44 PM
1/27/01	7:28 AM	5:45 PM
1/28/01	7:27 AM	5:47 PM
1/29/01	7:27 AM	5:48 PM
1/30/01	7:26 AM	5:49 PM
1/31/01	7:25 AM	5:50 PM

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

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 2000 HDD would be calculated as:

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

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:

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

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 a 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 the 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
 DATA COURTESY OF NATIONAL WEATHER SERVICE NORMAN

MONTH January

The data on this calendar is for Oklahoma City.
 Normal values are calculated for the period 1961-1990.
 Temperature extremes are for the period 1891-1999.
 Precipitation extremes are for the period 1891-1999.

Day	Avg. Temp	Avg. High	Record High	Year	Lowest Max	Year	2001	Avg. Low	Highest Min	Year	Record Low	Year	2001	Avg. Ppt.	Greatest Ppt.	Year	2001
1	36	47	74	1910	13	1979		25	51	1966	2	1928		0.04	0.63	1892	
2	36	47	78	1997	13	1911		25	56	1950	-2	1911		0.04	1.01	1951	
3	36	47	78	1997	10	1919		25	56	1997	-9	1911		0.04	1.03	1908	
4	36	47	72	1927	11	1959		25	60	1955	-7	1947		0.04	2.02	1998	
5	36	46	71	1927	18	1924		25	48	1946	-2	1959		0.04	1.00	1962	
6	36	46	68	1921	14	1909		25	52	1907	-2	1912		0.04	1.02	1934	
7	36	46	73	1965	15	1913		25	61	1907	-3	1912		0.04	0.93	1944	
8	36	46	71	1923	11	1937		25	49	1949	-4	1988		0.03	1.45	1939	
9	35	46	70	1902	9	1977		25	49	1900	-2	1977		0.03	0.62	1993	
10	35	46	75	1990	13	1962		25	45	1898	-3	1977		0.03	0.66	1905	
11	35	46	77	1911	2	1918		25	50	1898	-7	1918		0.03	1.10	1916	
12	35	46	73	1935	6	1912		25	51	1960	-7	1912		0.03	0.78	1927	
13	35	46	74	1996	11	1905		25	51	1952	-4	1916		0.03	0.79	1992	
14	35	46	75	1928	12	1905		25	50	1928	-1	1905		0.03	0.46	1898	
15	35	46	77	1914	14	1930		25	53	1969	-2	1905		0.03	0.65	1949	
16	35	46	76	1894	11	1930		25	57	1990	0	1930		0.03	0.70	1990	
17	36	46	73	1894	8	1930		25	52	1894	-9	1930		0.03	1.16	1926	
18	36	46	74	1951	8	1892		25	48	1895	-9	1930		0.03	1.07	1968	
19	36	47	75	1914	12	1962		25	54	1904	-11	1892		0.04	2.76	1894	
20	36	47	80	1986	18	1984		25	53	1921	1	1985		0.04	1.29	1904	
21	36	47	71	1967	12	1954		25	56	1921	-3	1930		0.04	1.40	1932	
22	36	47	79	1967	16	1962		25	50	1921	-8	1930		0.04	0.39	1920	
23	36	47	75	1909	13	1963		25	51	1967	-1	1963		0.04	1.16	1921	
24	36	47	81	1950	8	1894		25	51	1944	-8	1894		0.04	0.37	1949	
25	36	47	77	1952	15	1905		25	58	1944	-3	1894		0.04	1.26	1949	
26	36	47	72	1953	12	1897		26	54	1911	0	1902		0.04	1.25	1916	
27	37	48	72	1914	17	1961		26	56	1914	3	1963		0.04	0.62	1985	
28	37	48	78	1893	21	1948		26	60	1968	5	1948		0.04	0.44	1989	
29	37	48	76	1911	13	1966		26	51	1982	-1	1895		0.04	1.84	1982	
30	37	48	74	1917	16	1949		26	55	1988	-1	1895		0.04	1.34	1982	
31	37	48	83	1911	6	1918		26	52	1911	-1	1979		0.04	1.98	1923	
MONTH	35.9	46.7	83	1911	2	1918		25.2	61	1907	-11	1892		1.13	2.76	1894	

*The most tornadoes reported in January for Oklahoma was (4) in 1967.

TULSA CLIMATE CALENDAR
 DATA COURTESY OF NATIONAL WEATHER SERVICE NORMAN

MONTH January

The data on this calendar is for Tulsa.
 Normal values are calculated for the period 1961-1990.
 Temperature extremes are for the period 1905-1999.
 Precipitation extremes are for the period 1888-1999.

Day	Avg. Temp	Avg. High	Record High	Year	Lowest Max	Year	2001	Avg. Low	Highest Min	Year	Record Low	Year	2001	Avg. Ppt.	Greatest Ppt.	Year	2001
1	35	45	73	1910	13	1974		25	59	1910	0	1928		0.05	0.70	1925	
2	35	45	76	1997	10	1911		25	56	1997	2	1911		0.05	0.90	1951	
3	35	45	75	1997	14	1959		25	58	1997	-2	1919		0.05	1.12	1971	
4	35	45	70	1956	12	1959		25	63	1955	-8	1947		0.05	1.96	1932	
5	35	45	73	1984	16	1940		25	55	1916	-7	1947		0.05	1.28	1929	
6	35	45	69	1907	15	1913		25	53	1907	0	1912		0.05	0.93	1910	
7	35	45	77	1965	15	1968		25	64	1907	-5	1912		0.05	1.05	1935	
8	35	45	71	1923	17	1970		25	51	1939	-5	1988		0.05	1.92	1907	
9	35	45	69	1909	10	1977		25	46	1939	0	1977		0.05	0.94	1930	
10	35	45	75	1911	13	1962		25	48	1916	-5	1977		0.05	1.70	1922	
11	35	45	80	1911	-2	1918		24	52	1911	-6	1977		0.05	1.95	1905	
12	35	45	73	1960	3	1912		24	57	1960	-13	1918		0.05	2.10	1916	
13	35	45	75	1907	11	1916		24	51	1959	-12	1916		0.05	1.50	1927	
14	35	45	75	1952	13	1979		24	51	1953	-4	1916		0.05	0.65	1937	
15	35	45	69	1914	18	1972		24	53	1980	0	1905		0.05	0.76	1949	
16	35	45	78	1938	14	1930		24	55	1935	1	1930		0.04	1.90	1932	
17	35	45	73	1952	10	1930		24	55	1973	-3	1930		0.05	0.50	1926	
18	35	45	72	1951	12	1940		25	53	1923	-14	1930		0.05	0.88	1968	
19	35	45	75	1951	14	1970		25	48	1954	-5	1943		0.05	1.50	1980	
20	35	45	77	1986	15	1984		25	51	1923	-3	1985		0.05	1.63	1904	
21	35	45	75	1957	15	1935		25	57	1957	-1	1918		0.05	2.20	1916	
22	35	45	78	1909	16	1962		25	57	1909	-16	1930		0.05	0.84	1999	
23	35	46	78	1909	12	1963		25	54	1967	-8	1930		0.05	1.42	1953	
24	35	46	79	1950	15	1940		25	51	1919	-4	1906		0.05	0.67	1938	
25	35	46	74	1952	18	1940		25	55	1944	2	1940		0.05	1.89	1989	
26	36	46	71	1911	20	1957		25	55	1944	7	1963		0.05	0.62	1967	
27	36	46	74	1914	21	1948		25	55	1999	1	1963		0.05	1.01	1916	
28	36	46	82	1909	21	1972		26	59	1968	3	1948		0.05	0.69	1989	
29	36	47	76	1947	14	1966		26	50	1988	-2	1949		0.05	1.43	1939	
30	36	47	74	1931	15	1949		26	58	1988	-6	1949		0.05	1.73	1975	
31	36	47	76	1989	7	1918		26	48	1923	-5	1979		0.05	2.13	1983	
MONTH	35.2	45.4	82	1909	-2	1918		24.9	64	1907	-16	1930		0.05	2.20	1916	

* The average number of tornadoes reported in January for Oklahoma is (0.2).