

OKLAHOMA MONTHLY CLIMATE SUMMARY

NOVEMBER 2001

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Oklahoma Climatological Survey

MONTHLY SUMMARY FOR NOVEMBER 2001

November 2001

Statewide average temperature = 54.2° F
Statewide average rainfall = 1.80 inches

In marked contrast to last year, November 2001 was the 7th warmest November over the 110-year period of record in Oklahoma. The statewide-averaged temperature for the month, 54.2 degrees, is 4.4 degrees greater than normal. The warm month left the autumn (September-through-November) statewide-averaged seasonal temperature 0.4 degrees greater-than-normal at 62.0 degrees. The season, which included two relatively cool months, ranks as the 48th warmest autumn since record keeping began in 1892. Through its first 11 months, 2001 has a statewide-averaged temperature of 62.7 degrees, 0.5 degree less than normal and 40th greatest on record.

Precipitation was, for the most part, somewhat lacking during the month. Some relief was offered, however, from locally heavy rains in north central, northeastern, and southwestern Oklahoma, along with a post-Thanksgiving snowstorm in southwestern and central parts of the state. Northwestern and northern Oklahoma remained very dry, as has been the trend for several months. The statewide-averaged precipitation for the month totaled 1.80 inches, 0.62 inch less than normal, ranking the month near the middle (54th least of 110) of November's historical statewide totals. A few very wet months, particularly during the 1961-1990 period from which the normals are computed, have skewed the "normal" toward the wet end. Seasonal and monthly figures display this trend as well. Autumn total precipitation was 7.66 inches, 1.77 inches less than normal, but the season was only the 49th driest autumn on record. Total statewide-averaged precipitation through the first 11 months of the year was 29.91 inches, 2.67 inches less than normal and the 43rd least January-through-November precipitation on record. Should December precipitation not make up the deficit accrued through the first eleven months of the year, 2001 will be the first year with statewide annual precipitation less than the currently established normal since 1988.

November Normals

Statewide average temperature = 49.8° F
Statewide average rainfall = 2.42 inches

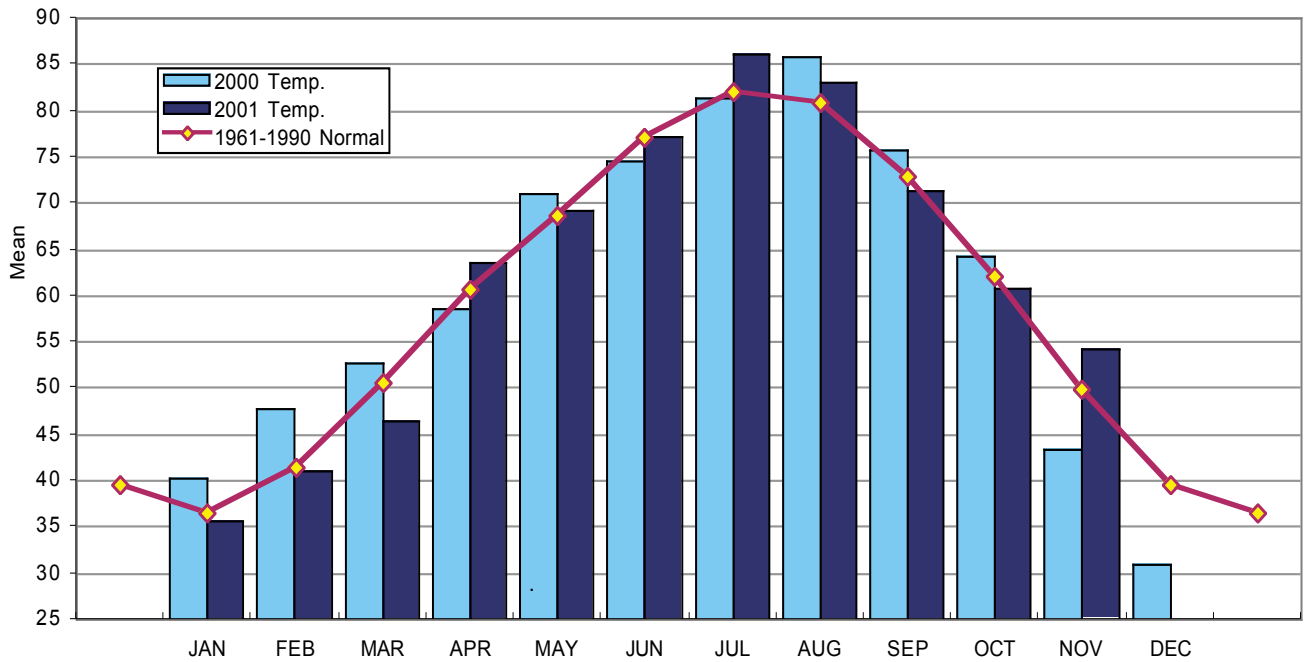
Locally heavy thunderstorms in north central and northeastern portions of the state on the 3rd produced several reports of substantial rain. The Haskell Mesonet site (Muskogee County) reported 3.81 inches of precipitation on the 3rd. Other reports from Mesonet sites on that date included: 3.64 inches at Skiatook (Osage), 3.53 inches at Pawnee (Pawnee), 3.37 inches at Wynona (Osage), and 2.81 inches at Porter (Wagoner). National Weather Service observers at Ingalls (Payne) and Billings (Noble) reported 3.50 and 3.10 inches, respectively. Harmon County received badly needed rainfall on the 15th when Vinson, Hollis, and the Hollis Mesonet site reported rainfall totaling 2.81, 2.52, and 2.77 inches, respectively.

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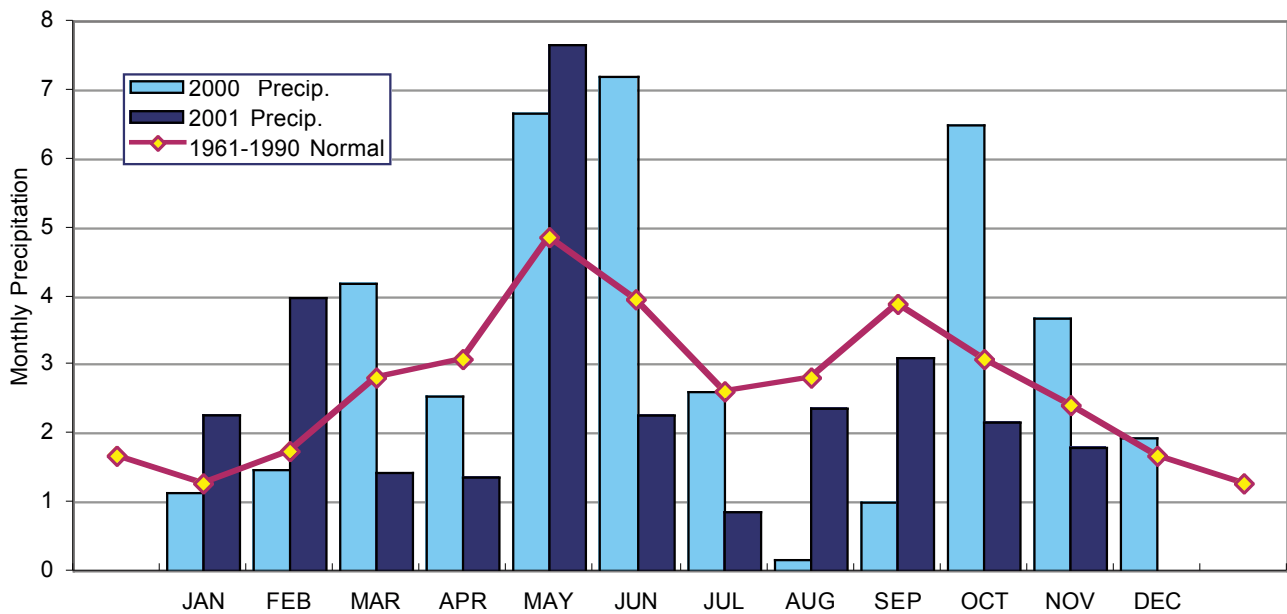
Oklahoma got its first real look at winter the week after Thanksgiving when a snowstorm struck southwestern and south central portions of the state, eventually extending through the central and northeastern portions as well. A band of heavy snow, including accumulations exceeding 6 inches, extended from around Frederick (Tillman) to Stroud (Lincoln). Frederick reported 12.50 inches of snow while Sedan (Kiowa) reported 9.5 inches, Chickasha (Grady) reported 8 inches, Lawton measured (Comanche) 7.5 inches, and Colony (Washita) reported 7.3 inches. Farther to the northeast, Norman (Cleveland) noted 6.9 inches and Stroud measured 7 inches of snow. Slick roads from the snow and some areas of freezing rain east of the snow band led to 5 traffic fatalities.

Howard L. Johnson
Associate State Climatologist

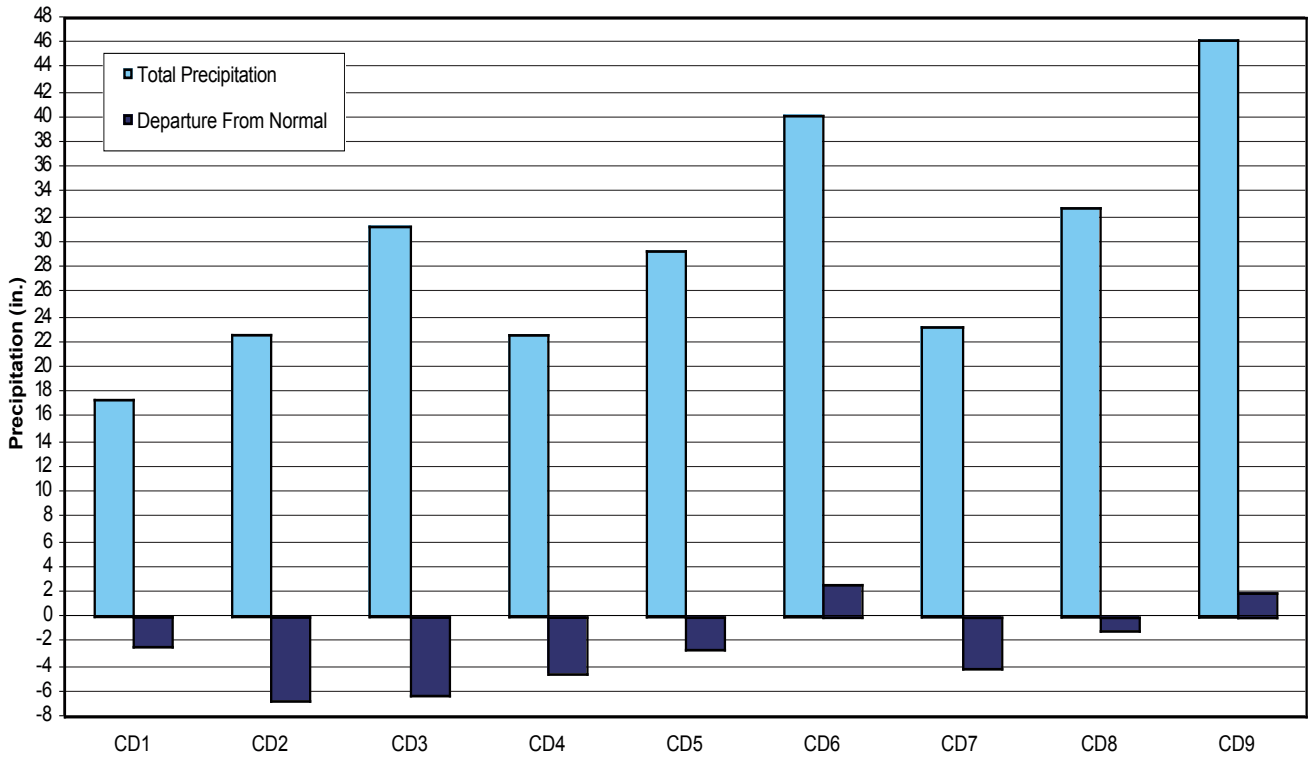
2000 AND 2001 STATEWIDE TEMPERATURES - MONTHLY AVERAGES



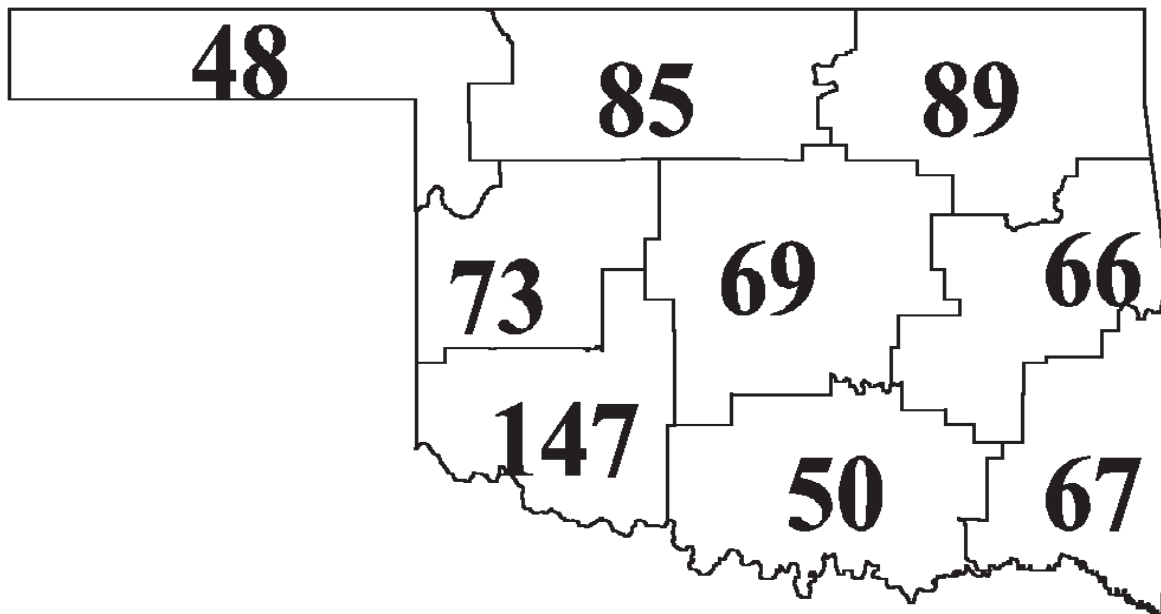
2000 AND 2001 STATEWIDE PRECIPITATION - MONTHLY TOTALS



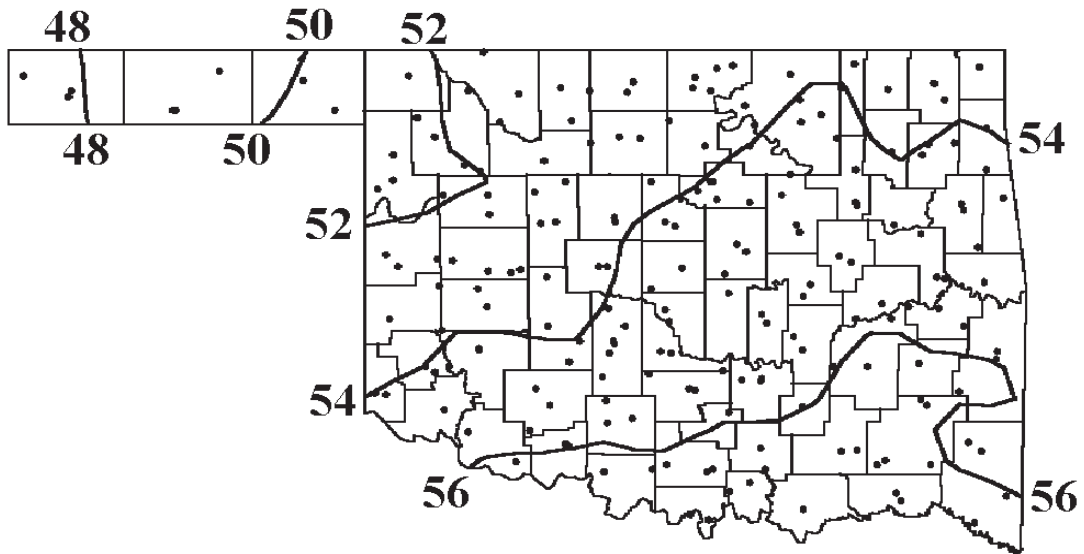
CLIMATE DIVISION AVERAGED PRECIPITATION - JANUARY THROUGH NOVEMBER 2001



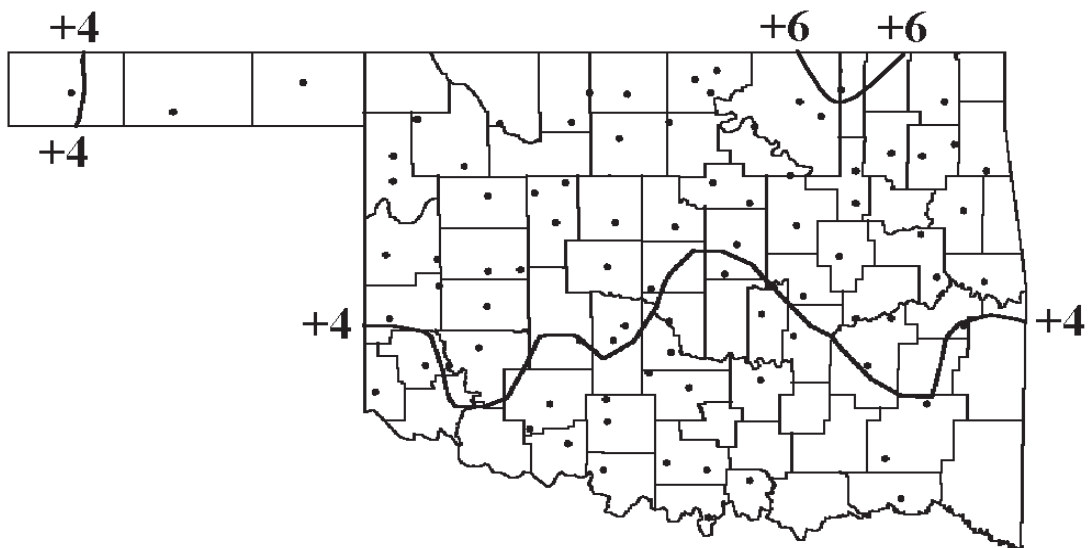
CLIMATE DIVISION PERCENT OF NORMAL PRECIPITATION - NOVEMBER 2001



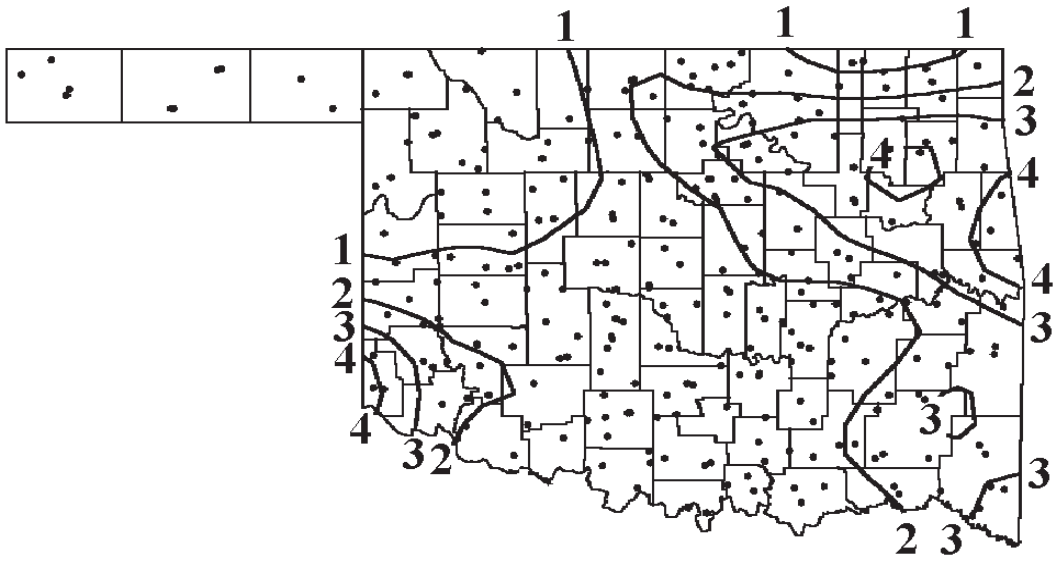
NOVEMBER 2001 AVERAGE MONTHLY TEMPERATURE (°F)



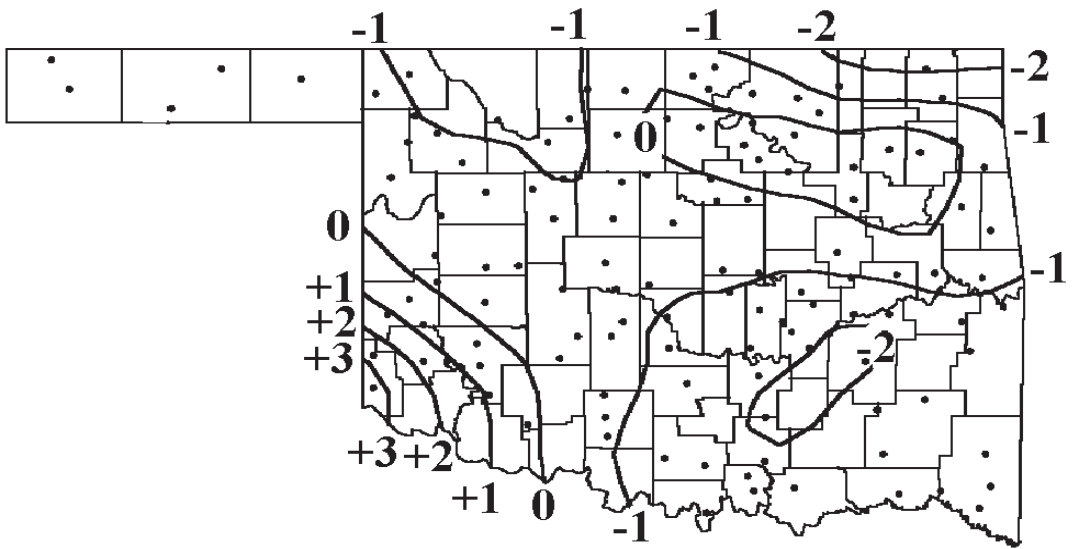
NOVEMBER 2001 DEPARTURE FROM NORMAL TEMPERATURE (°F)



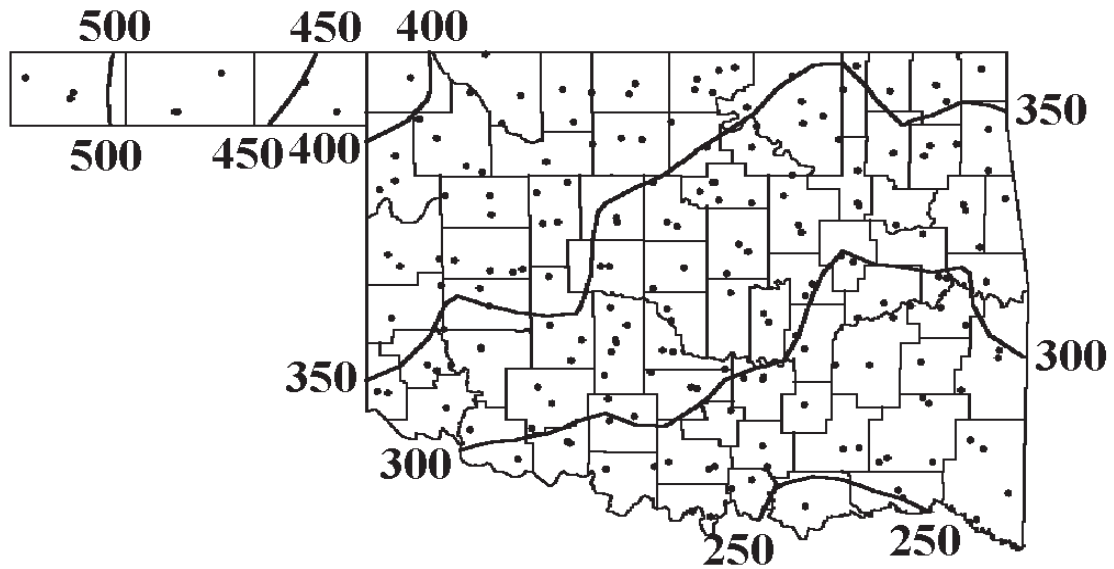
NOVEMBER 2001 TOTAL PRECIPITATION (INCHES)



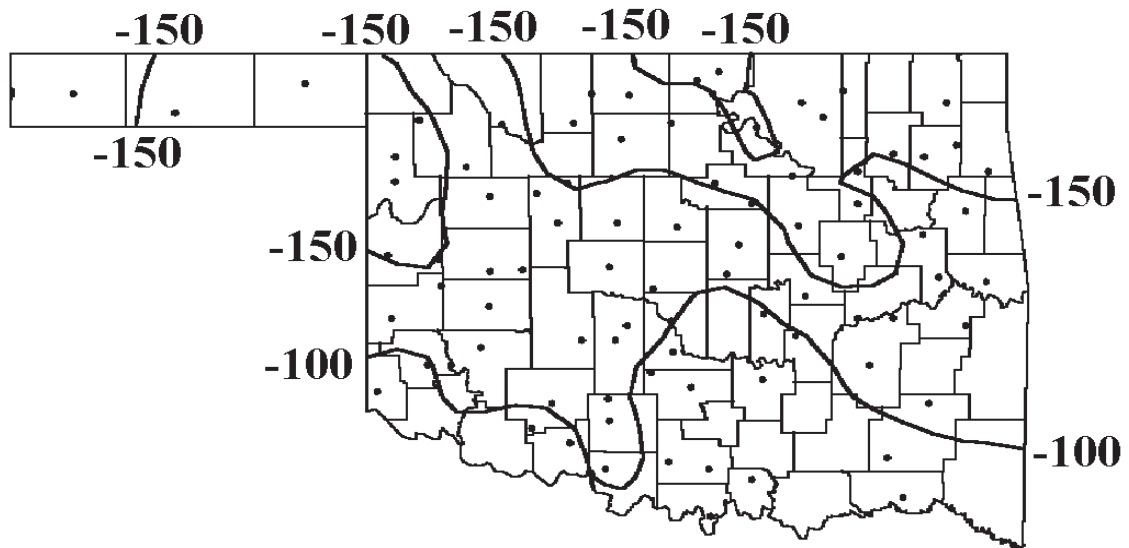
NOVEMBER 2001 DEPARTURE FROM NORMAL PRECIPITATION (INCHES)



NOVEMBER 2001 ACCUMULATED HEATING DEGREE DAYS (°F)



NOVEMBER 2001 DEPARTURE FROM NORMAL HEATING DEGREE DAYS (°F)



NOVEMBER 2001 SUMMARY FOR PANHANDLE CLIMATE DIVISION (CD1)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV		MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV		
					FROM NORM	MAX TEMP									FROM NORM	MAX 24-HR	
ARNETT	332	1	51.0	30	5.3	79	1	12	30	420	-159	1	1	0.620	30	-0.81	0.36
BEAVER	593	1	49.2	30	5.0	84	1	10	30	473	-151	0	0	0.671	30	-0.35	0.50
BOISE CITY	908	1	48.1	30	3.4	79	7	9	28	508	-101	0	0	0.682	30	-0.04	0.47
BUFFALO	1243	1	55.6	28 *	****	84	7	17	30	270	*****	7	*****	0.420	30	-1.20	0.40
FARGO	3070	1	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	0.313	30	-0.99	0.21
GAGE	3407	1	52.4	29	5.6	80	7	9	29	370	-177	4	4	0.367	29	****	0.14
GATE	3489	1	50.2	25 *	****	86	1	11	29	378	*****	8	*****	0.331	26	****	0.29
GOODWELL	3628	1	50.0	30	6.2	87	1	11	29	452	-185	1	1	0.570	30	-0.16	0.20
GUYMON	3835	1	50.4	25 *	****	86	1	9	29	366	*****	1	*****	1.470	25	*****	0.80
HOOKER	4298	1	49.7	27 *	****	81	7	12	30	414	*****	0	*****	0.521	30	-0.26	0.22
LAVERNE	5045	1	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	0.453	30	-0.72	0.31
REGNIER	7534	1	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	0.272	30	-0.29	0.17
TURPIN	9017	1	48.8	16 *	****	85	1	13	29	260	*****	1	*****	0.700	18	****	0.58

NOVEMBER 2001 SUMMARY FOR NORTH CENTRAL CLIMATE DIVISION (CD2)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV		MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV		
					FROM NORM	MAX TEMP									FROM NORM	MAX 24-HR	
VANCE AFB	302	2	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	0.051	28	****	0.03
BILLINGS	755	2	53.2	30	5.8	80	2	19	29	361	-167	7	7	3.681	30	1.41	3.10
BLACKWELL 2E	818	2	53.1	30	5.5	80	2	20	30	362	-160	6	6	1.482	30	-0.80	0.55
BRAMAN	1075	2	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	1.120	30	****	0.51
CEDARDALE	1620	2	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	0.463	30	****	0.17
CHEROKEE	1724	2	51.5	28 *	****	80	7	16	30	379	*****	0	*****	0.843	29	****	0.52
ENID	2912	2	53.9	30	5.3	81	2	19	29	339	-154	6	6	1.199	30	-1.01	0.83
FT SUPPLY	3304	2	50.6	30	5.1	81	1	7	29	433	-152	2	2	0.302	30	-0.96	0.14
FREEDOM	3358	2	42.5	13 *	****	74	18	11	30	293	*****	0	*****	0.210	13	****	0.21
GREAT SALT P	3740	2	53.4	30	6.6	81	2	18	30	357	-189	9	9	0.710	30	-1.12	0.53
HARDY	3909	2	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	2.210	30	****	1.78
HELENA	4019	2	52.8	30	6.8	81	2	15	29	373	-197	6	6	0.153	30	-1.66	0.07
JEFFERSON	4573	2	52.5	30	4.5	83	2	16	29	383	-127	7	7	2.300	30	0.12	1.31
LAMONT	5013	2	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	3.116	30	****	2.38
MEDFORD	5768	2	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	2.640	30	****	2.05
MORRISON	6065	2	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	3.650	30	****	2.22
MUTUAL	6139	2	51.5	30	5.3	78	7	14	30	405	-159	1	1	0.710	30	-0.69	0.27
NEWKIRK	6278	2	52.2	30	4.2	79	2	18	30	388	-123	4	4	1.783	30	-0.63	1.13
ORIENTA	6751	2	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	0.961	30	-0.76	0.38
PERRY	7012	2	54.1	27 *	****	80	2	21	29	302	*****	8	*****	2.291	28	****	1.60
PONCA CITY	7201	2	53.3	30	6.0	80	1	18	29	365	-167	12	12	1.213	30	-1.05	0.58
RED ROCK	7505	2	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	3.292	30	1.20	2.30
WAYNOKA	9404	2	51.9	30	3.9	80	7	14	29	397	-114	4	4	0.442	30	-1.09	0.14
WOODWARD	9760	2	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	0.223	30	-1.15	0.18

NOVEMBER 2001 SUMMARY FOR NORTHEAST CLIMATE DIVISION (CD3)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV		DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV	
					FROM NORM	MAX TEMP										FROM NORM	MAX 24-HR
BARNSDALL	535	3	54.4	30	5.3	78	1	22	20	327	-151	8	8	2.743	30	-0.24	2.00
BARTLESVILLE	548	3	55.3	30	6.1	79	7	21	20	302	-173	10	10	0.503	30	-2.22	0.29
BIXBY	782	3	53.1	30	4.7	79	1	26	28	361	-137	5	5	3.280	30	0.14	1.90
BURBANK	1256	3	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	1.850	30	-0.69	1.28
CHELSEA	1717	3	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	2.780	30	*****	1.33
CLAREMORE	1828	3	53.5	30	5.0	77	8	26	21	351	-145	4	4	5.210	30	1.98	1.52
HOLLOW	4258	3	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	0.842	30	-2.66	0.47
HOMINY	4289	3	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	3.552	30	0.92	2.20
KANSAS	4672	3	55.3	30	5.5	75	5	27	28	292	-165	2	2	3.060	30	-0.79	1.40
LENAPAH	5118	3	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	0.610	30	*****	0.28
MANNFORD	5522	3	55.5	30	5.6	78	2	24	28	296	-157	11	11	3.270	30	0.43	1.51
MARAMEC	5540	3	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	4.260	30	1.63	2.70
MIAMI	5855	3	52.6	27 *	****	76	6	27	27	334	*****	1	*****	1.780	28	*****	0.90
NOWATA	6485	3	55.8	26 *	****	77	7	24	21	244	*****	5	*****	1.640	27	*****	1.45
PAWHUSKA	6935	3	55.5	30	6.9	79	1	24	20	294	-199	8	8	2.751	30	-0.07	1.50
PAWNEE	6940	3	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	3.830	30	1.30	1.95
PRYOR	7309	3	53.3	30	5.4	76	8	25	21	356	-158	5	5	4.092	30	0.47	1.47
RALSTON	7390	3	53.1	30	4.0	80	1	19	20	361	-117	3	3	2.002	30	-0.54	1.24
SPAVINAW	8380	3	56.8	30	5.5	75	7	28	28	254	-162	7	7	5.031	30	1.29	2.15
TULSA	8992	3	55.2	30	5.3	78	1	27	28	304	-149	9	9	3.444	30	0.31	1.93
UPPER SPAV	9101	3	53.6	28 *	****	76	7	23	21	322	*****	3	*****	2.821	28	*****	1.22
VINITA	9203	3	54.2	30	5.7	74	7	25	29	328	-168	4	4	2.360	30	-1.47	0.82
WANN	9298	3	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	0.470	30	*****	0.24

NOVEMBER 2001 SUMMARY FOR WEST CENTRAL CLIMATE DIVISION (CD4)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV		DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV	
					FROM NORM	MAX TEMP										FROM NORM	MAX 24-HR
CANTON DAM	1445	4	52.3	30	5.3	82	2	17	29	383	-157	2	2	0.971	30	-0.81	0.57
CLINTON	1909	4	53.3	30	3.8	81	6	16	30	352	-114	1	1	1.331	30	-0.49	0.49
COLONY	2039	4	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	1.281	30	*****	0.54
CORDELL	2125	4	53.2	30	4.0	86	2	17	30	363	-111	9	9	1.733	30	-0.02	0.73
ELK CITY	2849	4	53.6	29	5.0	86	2	17	30	337	-156	7	7	1.470	30	-0.18	0.73
ERICK	2944	4	53.1	30	4.2	85	2	16	30	366	-118	8	8	1.780	30	0.45	0.82
HAMMON	3871	4	52.3	30	5.9	83	2	14	30	382	-177	1	1	1.000	30	-0.62	0.58
LEEDEY	5090	4	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	1.160	30	-0.39	0.52
MACKIE	5463	4	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	0.320	30	*****	0.32
MORAVIA	6035	4	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	1.831	30	0.45	0.87
OKEENE	6629	4	54.8	30	5.5	82	1	17	29	316	-156	10	10	0.601	30	-1.35	0.35
RETROP	7565	4	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	1.910	30	*****	0.77
REYDON	7579	4	52.3	29	4.7	84	2	15	30	370	-153	1	1	1.310	29	*****	0.60
SAYRE	7952	4	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	1.662	30	0.31	0.54
SWEETWATER	8652	4	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	0.951	30	*****	0.50
TALOGA	8708	4	50.8	30	3.4	81	2	14	30	426	-103	0	0	0.732	30	-1.07	0.49
THOMAS	8815	4	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	0.960	30	*****	0.41
WATONGA	9364	4	52.8	30	4.4	83	1	14	30	370	-128	3	3	0.872	30	-0.94	0.46
WEATHERFORD	9422	4	53.9	30	6.2	85	2	14	29	345	-174	12	12	0.611	30	-1.09	0.45

NOVEMBER 2001 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
AMBER	200	5	*****	0*	****	****	0	****	0	*****	*****	*****	*****	0.720	30	*****	0.26
BLANCHARD	830	5	56.6	30	5.4	81	1	21	29	268	-147	17	17	1.360	30	-0.74	0.52
BRISTOW	1144	5	55.2	29	4.7	78	7	25	28	294	-147	10	5	2.700	29	*****	1.40
CHANDLER	1684	5	55.0	29	4.1	80	2	23	29	302	-122	11	11	1.341	29	*****	0.59
CHICKASHA EXP	1750	5	55.7	30	4.9	82	1	20	29	295	-132	15	15	1.831	30	-0.12	0.46
COX CITY	2196	5	*****	0*	****	****	0	****	0	*****	*****	*****	*****	0.960	30	*****	0.38
CUSHING	2318	5	54.9	30	5.6	79	2	24	29	310	-161	7	7	1.941	30	-0.64	1.45
EDMOND	2788	5	*****	0*	****	****	0	****	0	*****	*****	*****	*****	1.281	30	*****	0.80
EL RENO	2818	5	55.0	30	6.1	82	2	23	30	308	-175	8	8	4.100	30	2.35	1.60
GUTHRIE	3821	5	54.2	30	3.9	81	2	20	30	333	-109	9	9	1.503	30	-0.79	1.02
HENNESSEY	4055	5	52.4	28*	****	81	2	15	28	352	*****	0	*****	1.121	30	-0.82	0.72
INGALLS	4489	5	*****	0*	****	****	0	****	0	*****	*****	*****	*****	4.300	30	*****	3.50
KINGFISHER	4861	5	54.2	30	4.6	82	2	17	29	326	-136	3	3	1.260	30	-0.65	0.60
KONAWA	4915	5	*****	0*	****	****	0	****	0	*****	*****	*****	*****	1.000	30	-1.73	0.40
MARSHALL	5589	5	*****	0*	****	****	0	****	0	*****	*****	*****	*****	1.330	30	-0.58	0.56
MEEKER	5779	5	53.6	29	3.2	79	2	22	29	338	-101	7	7	2.160	30	-0.40	0.81
NORMAN NWS	6386	5	54.2	30	3.1	79	1	20	28	333	-85	9	9	1.043	30	-1.44	0.38
OKEMAH	6638	5	55.8	30	4.6	77	2	24	28	284	-130	10	10	1.610	30	-1.33	1.21
OKLAHOMA CTY F.	6659	5	*****	0*	****	****	0	****	0	*****	*****	*****	*****	0.883	30	*****	0.36
OKLAHOMA CTY	6661	5	53.8	30	4.2	80	1	21	28	343	-119	8	8	1.064	30	-0.92	0.37
PERKINS	7003	5	*****	0*	****	****	0	****	0	*****	*****	*****	*****	1.280	30	-1.16	1.18
PIEDMONT	7068	5	*****	0*	****	****	0	****	0	*****	*****	*****	*****	0.251	30	*****	0.14
PRAGUE	7264	5	*****	0*	****	****	0	****	0	*****	*****	*****	*****	1.460	30	-1.21	0.59
PURCELL	7327	5	54.3	29	3.4	78	3	21	29	323	-101	12	12	1.220	30	-1.28	0.76
SEMINOLE	8042	5	55.0	29	2.7	79	3	24	30	301	-84	12	12	2.252	30	-0.67	0.95
SHAWNEE	8110	5	*****	0*	****	****	0	****	0	*****	*****	*****	*****	1.740	30	-1.15	0.62
STELLA	8479	5	*****	0*	****	****	0	****	0	*****	*****	*****	*****	1.350	30	*****	0.90
STILLWATER	8501	5	54.4	30	5.9	79	2	23	29	327	-168	9	9	1.960	30	-0.29	0.86
STROUD	8563	5	*****	0*	****	****	0	****	0	*****	*****	*****	*****	3.740	30	*****	1.63
TECUMSEH	8751	5	*****	0*	****	****	0	****	0	*****	*****	*****	*****	0.520	30	*****	0.52
UNION CITY	9086	5	*****	0*	****	****	0	****	0	*****	*****	*****	*****	1.372	30	-0.93	0.65
TROUSDALE	8960	5	54.8	26*	****	80	2	23	29	278	*****	14	*****	1.550	26	*****	0.60
WELTY	9479	5	*****	0*	****	****	0	****	0	*****	*****	*****	*****	3.090	30	*****	1.57
WEWOKA	9575	5	*****	0*	****	****	0	****	0	*****	*****	*****	*****	1.531	30	-1.26	0.44

NOVEMBER 2001 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
ASHLAND	364	6	*****	0*	****	****	0	****	0	*****	*****	*****	*****	1.270	30	*****	0.44
CALVIN	1391	6	*****	0*	****	****	0	****	0	*****	*****	*****	*****	1.100	30	-1.87	0.30
CHECOTAH	1711	6	*****	0*	****	****	0	****	0	*****	*****	*****	*****	2.710	30	-0.60	1.46
CLAYTON	1858	6	*****	0*	****	****	0	****	0	*****	*****	*****	*****	2.630	30	*****	0.60
DEWAR	2485	6	*****	0*	****	****	0	****	0	*****	*****	*****	*****	2.551	30	-0.55	1.35
DUSTIN	2690	6	*****	0*	****	****	0	****	0	*****	*****	*****	*****	0.990	30	*****	0.32
EUFAULA	2993	6	57.5	30	4.8	77	1	25	28	239	-135	13	8	0.920	30	-2.52	0.40
HANNA	3884	6	55.4	30	3.7	78	6	22	29	305	-94	16	16	1.014	30	-2.45	0.34
HOLDENVILLE	4235	6	55.5	30	3.6	82	2	26	28	304	-94	18	18	0.872	30	-2.11	0.31
LAKE EUFAULA	4975	6	55.0	30*	****	77	2	27	29	306	*****	8	*****	1.590	30	*****	0.37
LYONS	5437	6	*****	0*	****	****	0	****	0	*****	*****	*****	*****	3.990	30	0.22	0.91
MCALESTER	5664	6	56.2	30	4.4	80	1	25	20	284	-120	19	12	1.264	30	-2.25	0.52
MCCURTAIN	5693	6	56.0	30	3.3	78	1	28	21	277	-98	9	3	2.492	30	-1.87	0.65
MUSKOGEE	6130	6	55.1	29	4.2	78	1	28	20	298	-130	10	10	3.334	29	*****	1.49
OKMULGEE	6670	6	57.8	30	8.3	80	1	32	28	233	-232	18	18	2.571	30	-0.59	1.84
SALLISAW	7862	6	56.0	30	4.5	75	8	30	30	275	-128	6	6	4.610	30	0.50	2.00
SCPIO	7979	6	*****	0*	****	****	0	****	0	*****	*****	*****	*****	1.620	30	*****	0.46
SHORT	8170	6	*****	0*	****	****	0	****	0	*****	*****	*****	*****	5.930	30	*****	2.52
TAHLEQUAH	8677	6	54.9	30	4.7	75	7	25	20	308	-142	5	-1	3.051	30	-0.53	0.80
WEBBERS FALL	9445	6	55.1	30	4.9	78	8	25	21	305	-139	7	7	3.040	30	-0.33	1.20
WETUMKA	9571	6	*****	0*	****	****	0	****	0	*****	*****	*****	*****	1.412	30	-1.80	0.32

NOVEMBER 2001 SUMMARY FOR SOUTHWEST CLIMATE DIVISION (CD7)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV		MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV		
					FROM NORM	MAX TEMP									FROM NORM	MAX 24-HR	
ALTUS DAM	184	7	56.0	30	6.4	86	2	22	29	289	-174	18	18	2.100	30	0.74	0.67
ANADARKO	224	7	52.6	30	2.7	83	2	15	29	377	-76	4	4	1.142	30	-0.59	0.57
APACHE	260	7	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	1.180	30	-0.63	0.40
ALTUS AFB	447	7	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	0.210	28	*****	0.08
CHATTANOOGA	1706	7	54.8	30	3.2	87	2	14	30	328	-74	22	22	1.630	30	0.09	0.46
DUNCAN 11 W	2668	7	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	1.830	30	*****	0.51
FREDERICK	3353	7	54.0	28 *	****	88	1	18	29	326	*****	18	*****	2.120	28	*****	0.65
HEADRICK	3998	7	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	1.700	30	*****	0.63
HOBART	4204	7	54.0	30	3.9	88	1	13	29	346	-102	17	17	1.274	30	-0.14	0.59
HOLLIS	4249	7	54.1	30	3.5	90	1	15	29	339	-94	12	12	4.870	30	3.76	2.52
LAWTON	5063	7	54.8	29	4.2	85	2	20	29	312	-121	16	16	2.110	29	*****	0.61
LOOKEBA	5329	7	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	0.782	30	-1.01	0.45
MANGUM	5509	7	52.9	30	2.1	89	2	10	30	373	-53	10	10	2.810	30	1.55	1.54
ROOSEVELT	7727	7	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	2.680	30	1.20	1.00
SEDAN	8016	7	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	2.040	30	*****	0.76
SNYDER	8299	7	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	2.720	30	1.18	0.96
VINSON	9212	7	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	5.170	30	3.95	2.81
WALTERS	9278	7	54.7	29	2.3	84	2	21	29	312	-71	14	14	1.440	29	*****	0.52

NOVEMBER 2001 SUMMARY FOR SOUTH CENTRAL CLIMATE DIVISION (CD8)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV		MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV		
					FROM NORM	MAX TEMP									FROM NORM	MAX 24-HR	
ADA	17	8	55.1	30	3.0	78	3	24	29	309	-85	12	6	0.771	30	-2.03	0.25
ALLEN	147	8	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	1.300	30	*****	1.30
ARDMORE	292	8	57.0	30	2.5	82	3	25	28	264	-58	25	18	0.840	30	-1.59	0.60
ATOKA DAM	394	8	55.0	28 *	****	81	4	26	21	290	*****	11	*****	1.732	28	*****	0.80
BOKCHITO	917	8	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	0.960	30	*****	0.75
CANEY	1437	8	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	2.150	30	*****	0.60
CENTRAHOMA	1648	8	55.7	27 *	****	80	2	24	21	269	*****	17	*****	0.550	27	*****	0.30
CHICKASAW	1745	8	54.7	25 *	****	81	5	24	28	270	*****	13	*****	0.650	27	*****	0.20
COLEMAN	2011	8	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	0.400	30	*****	0.20
COMANCHE	2054	8	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	0.690	30	-1.39	0.40
DAISY	2354	8	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	2.131	30	-1.87	0.61
DUNCAN	2660	8	55.8	30	4.4	82	4	21	29	293	-119	17	17	1.481	30	-0.67	0.44
DURANT	2678	8	56.9	28 *	****	83	3	26	20	241	*****	14	*****	1.860	30	-1.28	0.47
ELMORE CITY	2872	8	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	1.720	30	*****	0.70
GRADY	3688	8	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	1.210	30	*****	0.81
HEALDTON	4001	8	55.8	30	3.5	83	4	23	30	297	-90	19	19	1.100	30	-1.16	0.35
HENNEPIN	4052	8	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	1.640	30	*****	0.71
KETCHUM RAN	4780	8	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	0.930	30	*****	0.24
KINGSTON	4865	8	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	1.100	30	-1.73	0.60
LEHIGH	5108	8	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	1.804	30	*****	1.05
LINDSAY	5216	8	53.7	29	2.4	81	1	20	29	341	-71	13	13	1.920	29	*****	0.75
LOCO	5247	8	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	1.080	30	*****	0.40
MADILL	5468	8	56.8	30	3.0	82	4	27	29	266	-77	19	13	1.452	30	-1.35	1.13
MARIETTA 5 SW	5563	8	55.3	30	1.7	81	4	22	22	304	-45	14	7	0.930	30	-1.67	0.58
MARLOW	5581	8	56.3	30	4.8	83	1	21	29	282	-124	21	21	1.400	30	-0.74	0.34
MCGEE CREEK	5713	8	57.3	30 *	****	82	4	29	30	250	*****	21	*****	2.822	30	*****	0.80
PAULS VALLEY	6926	8	54.8	30	2.7	81	3	22	29	322	-71	16	16	1.144	30	-1.39	0.35
PONTOTOC	7214	8	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	0.660	30	-2.30	0.50
TISHOMINGO	8884	8	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	0.560	30	-2.46	0.36
TUSSY	9032	8	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	2.020	30	*****	1.70
WAURIKA	9395	8	58.0	29	4.9	83	3	23	28	228	-135	25	19	0.561	29	*****	0.29

NOVEMBER 2001 SUMMARY FOR SOUTHEAST CLIMATE DIVISION (CD9)

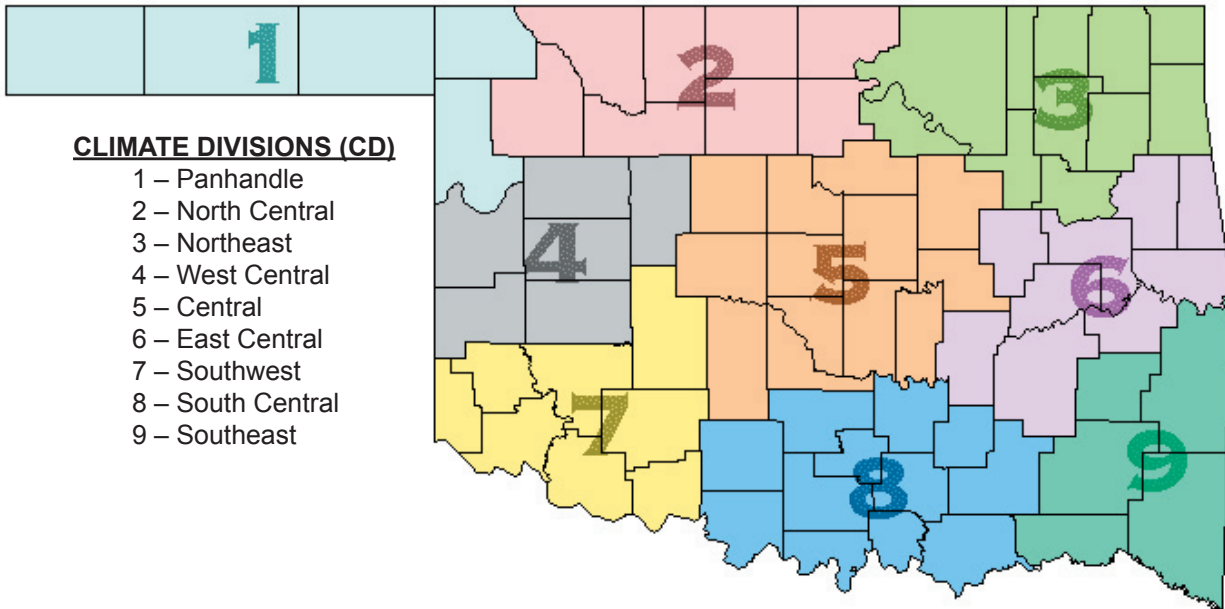
NAME	ID	CD	MEAN TEMP	NUM OBS	DEV		MIN TEMP	DAY	HEAT		DEV		COOL		TOT PPT	NUM OBS	DEV	
					FROM NORM	MAX TEMP			DEG DAY	FROM NORM	DEG DAY	FROM NORM	DEG DAY	FROM NORM			MAX 24-HR	
ANTLERS	256	9	55.8	30	2.8	81	4	23	21	286	-80	10	4	2.730	30	-1.00	1.15	
BATTIEST	567	9	53.1	29 *	****	80	4	21	22	351	*****	6	*****	2.760	29	*****	0.73	
BENGAL	670	9	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	3.400	30	*****	0.86	
BROKEN BOW	1162	9	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	3.000	30	-1.24	1.22	
CARTER TWR	1544	9	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	2.720	30	-1.56	0.85	
FANSHAWE	3065	9	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	2.560	30	-1.95	0.80	
HUGO	4384	9	57.5	30	3.2	83	5	26	20	243	-87	17	8	1.680	30	-2.27	0.50	
IDABEL	4451	9	58.1	28 *	****	77	3	30	29	202	*****	7	*****	3.670	30	-0.43	1.38	
PAGE	6842	9	56.0	24 *	****	77	4	23	20	225	*****	9	*****	4.560	25	*****	2.30	
SMITHVILLE	8285	9	52.6	27 *	****	79	4	20	22	345	*****	10	*****	3.321	28	*****	0.85	
SPIRO	8416	9	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	2.200	30	-2.22	0.63	
TUSKAHOMA	9023	9	57.2	30	4.3	79	3	23	21	256	-114	23	17	3.770	30	-0.36	1.72	
VALLIANT	9118	9	*****	0 *	****	****	0	****	0	*****	*****	*****	*****	2.590	30	-1.57	0.62	
WISTER	9724	9	58.1	30 *	****	84	2	23	30	246	*****	39	*****	2.380	30	*****	0.56	

NOVEMBER 2001 CLIMATE DIVISION SUMMARY

NAME	CD	MEAN TEMP	NUM OBS	DEV		MIN TEMP	DAY	HEAT		DEV		COOL		TOT PPT	NUM OBS	DEV	
				FROM NORM	MAX TEMP			DEG DAY	FROM NORM	DEG DAY	FROM NORM	DEG DAY	FROM NORM			MAX 24-HR	
CLIMATE DIVISION 1	1	50.1	5	4.8	87	1	9	29	444	-147	1	1	0.500	9	-0.54	0.80	
CLIMATE DIVISION 2	2	52.6	11	5.1	83	2	7	29	378	-149	6	6	1.580	20	-0.28	3.10	
CLIMATE DIVISION 3	3	54.6	12	5.5	80	1	19	20	319	-159	6	6	2.800	20	-0.33	2.70	
CLIMATE DIVISION 4	4	52.9	11	4.7	86	2	14	29	364	-139	5	5	1.180	18	-0.44	0.87	
CLIMATE DIVISION 5	5	54.8	15	4.4	82	2	15	28	312	-128	10	9	1.650	31	-0.75	3.50	
CLIMATE DIVISION 6	6	55.9	11	4.5	82	2	22	29	285	-129	12	9	2.280	20	-1.18	2.52	
CLIMATE DIVISION 7	7	54.2	8	3.5	90	1	10	30	334	-94	14	14	2.280	14	0.73	2.81	
CLIMATE DIVISION 8	8	56.0	11	3.6	83	3	20	29	287	-96	18	15	1.310	26	-1.33	1.70	
CLIMATE DIVISION 9	9	56.3	5	3.6	84	2	20	22	276	-98	19	14	2.790	11	-1.40	2.30	

Note: The above climate division summary contains similar information to the preceding tables but are the averages or extremes over all of the stations reporting in each climate division.

CLIMATE DIVISION MAP



EXPLANATION OF TABLES

The tables appearing on the preceding pages contain the following information for each station or climate division:

Station Name: The name of the observing site.

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

Climate Division: See the figure above.

Number of Temperature Observations: These numbers 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 Temperature: The maximum daily maximum temperature observed during the current month and year and the day on which it occurred.

Minimum Daily Temperature: The minimum daily minimum temperature observed during the current month and year and the day on 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. HDD 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. See the equation to the right for the HDD calculation.

Deviation from Normal Heating Degree Days: The difference between the actual HDD and the normal HDD for the month. 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. CDD 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. See the equation to the right for the CDD calculation.

Deviation from Normal Cooling Degree Days: The difference between the actual HDD and the normal HDD for the month. 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: The difference between the actual rainfall and the normal rainfall for the month. 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.

Heating Degree Days Calculation

NumDays

$$\sum_{i=1} \text{NumDays} \left(65 - \left(\frac{TMAX_i + TMIN_i}{2} \right) \right)$$

Where NumDays = the number of days in the month of interest (e.g., NumDays = 31 for January)

Cooling Degree Days Calculation

NumDays

$$\sum_{i=1} \text{NumDays} \left(\left(\frac{TMAX_i + TMIN_i}{2} \right) - 65 \right)$$

Where NumDays = the number of days in the month of interest (e.g., NumDays = 30 for June)

MESONET MONTHLY SUMMARY FOR NOVEMBER 2001

NAME	MEAN MAX		MIN		HDD	CDD	TOT MAX			NAME	MEAN MAX		MIN		HDD	CDD	TOT MAX				
	TEMP	TEMP	DAY	TEMP			DAY	PPT	24-HR		DAY	TEMP	TEMP	DAY			TEMP	DAY	PPT	24-HR	DAY
PANHANDLE																					
Arnett	52.1	78	1	12	29	388	1	0.67	0.43	16	Goodwell	48.7	80	7	13	28	490	0	0.72	0.23	8
Beaver	50.5	82	7	9	29	442	6	0.60	0.35	17	Hooker	48.9	81	7	10	29	483	0	0.50	0.24	8
Boise City	46.8	79	7	11	28	547	0	0.50	0.22	15	Kenton	46.8	79	7	8	28	547	0	0.46	0.19	8
Buffalo	51.9	81	7	10	29	403	10	0.47	0.37	17	Slapout	51.4	81	7	11	29	409	0	0.69	0.38	17
NORTH CENTRAL																					
Alva	52.5	81	7	13	29	381	5	0.67	0.27	23	May Ranch	52.6	79	6	13	29	378	5	0.13	0.05	17
Blackwell	52.5	79	1	20	29	382	7	1.26	0.63	18	Medford	52.5	80	1	17	29	381	7	2.69	2.23	3
Breckenridge	52.8	80	1	19	29	370	5	2.07	1.23	3	Newkirk	52.9	78	1	19	29	368	5	1.45	0.91	3
Cherokee	53.0	80	1	17	29	366	7	*****	*****	**	Red Rock	53.8	80	1	19	29	344	8	3.12	2.48	3
Fairview	53.4	81	1	17	29	355	7	0.69	0.43	17	Seiling	52.0	80	1	14	29	390	1	0.52	0.19	23
Freedom	52.6	79	1	11	29	377	4	0.20	0.11	16	Woodward	53.1	79	6	12	29	362	4	0.17	0.10	16
Lahoma	52.0	81	1	16	29	395	4	0.50	0.29	17											
NORTHEAST																					
Bixby	54.3	78	1	26	20	327	5	3.88	2.78	3	Nowata	52.4	76	7	21	20	383	4	1.51	0.99	3
Burbank	53.3	80	1	20	20	357	7	1.78	1.09	3	Pawnee	54.0	79	1	23	20	334	6	4.34	3.53	3
Claremore	56.7	78	7	24	20	****	****	4.25	2.52	3	Porter	55.3	77	1	27	28	301	9	4.36	2.81	3
Copan	53.8	77	1	24	20	344	6	0.41	0.19	23	Pryor	53.2	76	7	25	20	360	5	4.48	2.16	3
Foraker	52.8	78	1	23	27	369	4	0.83	0.44	3	Skiatook	54.5	76	1	24	28	321	5	4.91	3.64	3
Jay	53.4	75	6	24	20	351	2	3.19	1.04	3	Vinita	52.0	75	6	23	20	391	3	0.81	0.38	18
Miami	52.7	75	7	24	20	370	2	1.17	0.44	18	Wynona	54.4	80	1	25	28	325	7	3.83	3.37	3
WEST CENTRAL																					
Bessie	54.1	86	1	14	29	339	12	1.57	0.63	17	Putnam	52.4	81	1	16	29	380	3	0.53	0.24	17
Butler	53.6	85	1	15	29	350	9	0.77	0.53	17	Retrop	54.2	86	1	14	29	338	13	1.56	0.53	14
Camargo	51.9	79	1	13	29	394	0	0.62	0.31	17	Watonga	52.8	83	1	16	29	370	6	0.84	0.41	17
Cheyenne	53.1	83	1	17	29	361	4	0.96	0.49	17	Weatherford	53.1	85	1	14	29	364	8	0.88	0.60	17
Erick	52.6	86	1	14	29	377	5	1.78	0.82	14											
CENTRAL																					
Acme	55.0	82	1	20	28	319	18	1.59	0.57	17	Minco	53.8	81	1	19	28	346	10	1.61	1.13	17
Bowlegs	54.9	79	2	25	28	318	14	1.87	0.52	19	Ninnekah	54.8	83	1	21	28	322	15	1.09	0.48	17
Bristow	53.9	78	1	24	20	340	8	2.84	1.34	3	Norman	54.3	80	1	21	28	328	7	0.54	0.18	30
Chandler	54.9	79	1	23	28	313	10	1.62	0.99	3	Oilton	53.5	78	1	20	20	350	6	1.91	0.82	3
Chickasha	54.3	83	1	21	28	336	13	1.07	0.38	19	Okemah	55.0	77	1	26	20	312	11	1.78	1.19	3
El Reno	52.5	83	1	17	29	378	4	1.22	0.66	17	Perkins	54.3	80	1	23	28	329	7	2.32	1.78	3
Guthrie	54.7	80	1	20	29	317	8	1.61	1.05	3	Shawnee	54.8	78	1	23	28	318	11	1.69	0.83	3
Kingfisher	53.2	82	1	17	29	360	5	1.19	0.54	17	Spencer	55.1	79	1	21	28	307	10	1.37	0.44	19
Marena	54.0	80	1	22	28	336	6	1.74	1.18	3	Stillwater	53.5	80	1	23	20	348	4	1.90	1.37	3
Marshall	53.3	80	1	17	29	358	7	1.36	0.93	3	Washington	54.8	80	1	21	28	318	12	1.90	0.92	3
EAST CENTRAL																					
Calvin	55.0	79	1	25	30	313	14	2.11	0.89	3	Sallisaw	55.3	76	1	26	20	296	5	3.53	1.32	3
Cookson	54.5	74	1	23	20	320	5	3.74	1.01	3	Stigler	54.9	78	1	24	20	313	9	2.26	0.52	8
Eufaula	56.5	78	1	28	28	267	12	1.55	0.74	30	Stuart	56.4	79	2	27	28	274	17	1.30	0.78	30
Haskell	57.3	77	1	28	20	****	****	5.96	3.81	3	Tahlequah	53.9	74	1	25	20	337	4	3.00	0.97	3
Hectorville	58.3	78	1	30	30	****	****	3.90	2.27	3	Webbers Falls	56.3	79	1	28	20	273	11	3.94	2.00	3
McAlester	56.1	79	1	25	20	286	19	1.52	0.71	30	Westville	54.2	73	1	27	27	327	2	4.84	1.41	3
Okmulgee	54.5	78	1	24	20	326	12	2.03	0.83	3											
SOUTHWEST																					
Altus	55.5	90	1	13	29	305	19	2.37	1.26	17	Hollis	54.8	90	1	15	29	321	14	4.58	2.77	14
Apache	54.2	83	1	19	28	338	13	1.23	0.65	17	Mangum	54.2	89	1	13	29	340	16	0.35	0.17	29
Fort Cobb	54.1	85	1	15	29	339	13	0.94	0.43	17	Medicine Park	55.5	85	1	19	28	304	20	1.97	1.12	3
Grandfield	56.5	88	1	19	29	284	30	0.67	0.24	30	Tipton	55.6	89	1	8	29	306	23	1.53	0.98	17
Hinton	53.3	86	1	13	29	357	8	1.25	0.57	17	Walters	56.2	86	1	22	28	293	28	0.98	0.21	30
Hobart	53.8	87	1	13	29	350	14	1.41	0.61	17											
SOUTH CENTRAL																					
Ada	55.9	79	1	25	28	290	16	0.79	0.45	30	Lane	56.7	81	3	26	21	270	21	1.67	0.39	28
Ardmore	57.2	82	3	25	28	258	22	1.11	0.38	30	Madill	57.5	83	3	26	28	249	23	1.07	0.53	27
Bee	57.0	81	3	25	21	260	20	*****	*****	**	Pauls Valley	56.2	80	1	23	28	284	19	0.93	0.49	30
Burneyville	57.0	84	3	24	20	263	22	1.02	0.33	27	Ringling	56.1	82	3	23	28	285	18	1.05	0.39	30
Byars	55.9	79	1	23	28	292	18	0.99	0.52	30	Sulphur	55.9	80	2	25	20	293	19	1.23	0.51	19
Centrahoma	55.6	79	1	23	20	299	16	1.24	0.70	30	Tishomingo	56.0	81	3	23	21	288	18	1.09	0.32	27
Durant	58.6	81	3	29	28	208	22	1.49	0.53	9	Vanoss	56.1	81	3	24	28	287	20	1.07	0.56	30
Ketchum Ranch	55.3	81	1	21	28	310	17	1.06	0.39	30	Waurika	56.7	85	3	22	28	275	25	1.66	0.73	30
SOUTHWEST																					
Antlers	55.8	81	3	20	21	291	15	2.85	1.02	4	Idabel	57.1	81	3	26	21	255	18	3.23	1.45	28
Broken Bow	55.7	82	3	23	21	288	9	3.13	1.63	28	Mt Herman	55.7	79	3	26	21	290	12	2.82	0.85	28
Clayton	56.4	80	1	25	21	274	17	2.64	1.08	4	Talihina	56.2	78	1	23	21	278	14	*****	*****	**
Cloudy	56.8	80	3	25	21	263	17	2.86	0.69	9	Wilburton	55.7	79	1	24	20	294	16	2.13	0.54	28

EXTREME VALUES OF TEMPERATURE AND PRECIPITATION IN EACH CLIMATE DIVISION NOVEMBER 2001

CD	MAX TEMP	DATE	LOCATION	MIN TEMP	DATE	LOCATION	24-HOUR PRECIP	DATE	LOCATION	MONTHLY PRECIP	LOCATION
1	87	1	GOODWELL	9	28	BOISE CITY	.80	17	GUYMON	1.47	GUYMON
				9	29	GAGE					
				9	29	GUYMON					
2	83	2	JEFFERSON	7	28	FT SUPPLY	3.10	3	BILLINGS	3.68	BILLINGS
				7	29	FT SUPPLY					
3	80	1	RALSTON	19	20	RALSTON	2.70	3	MARAMEC	5.21	CLAREMORE
4	86 86	2	CORDELL ELK CITY	14	29	HAMMON	.87	18	MORAVIA	1.91	RETROP
				14	30	HAMMON					
				14	29	TALOGA					
				14	30	TALOGA					
				14	29	WATONGA					
5	82 82 82	1 2 2	CHICKASHA EX EL RENO KINGFISHER	15	28	HENNESSEY	3.50	4	INGALLS	4.30	INGALLS
6	82	2	HOLDENVILLE	22	29	HANNA	2.52	24	SHORT	5.93	SHORT
7	90	1	HOLLIS	10	30	MANGUM	2.81	15	VINSON	5.17	VINSON
8	83 83 83 83 83	3 3 4 1 1	DURANT HEALDTON HEALDTON MARLOW WAURIKA	20	29	LINDSAY	1.70	3	TUSSY	2.82	MCGEE CREEK
9	84	2	WISTER	20	21	SMITHVILLE	2.30	4	PAGE	4.56	PAGE
				20	22	SMITHVILLE					

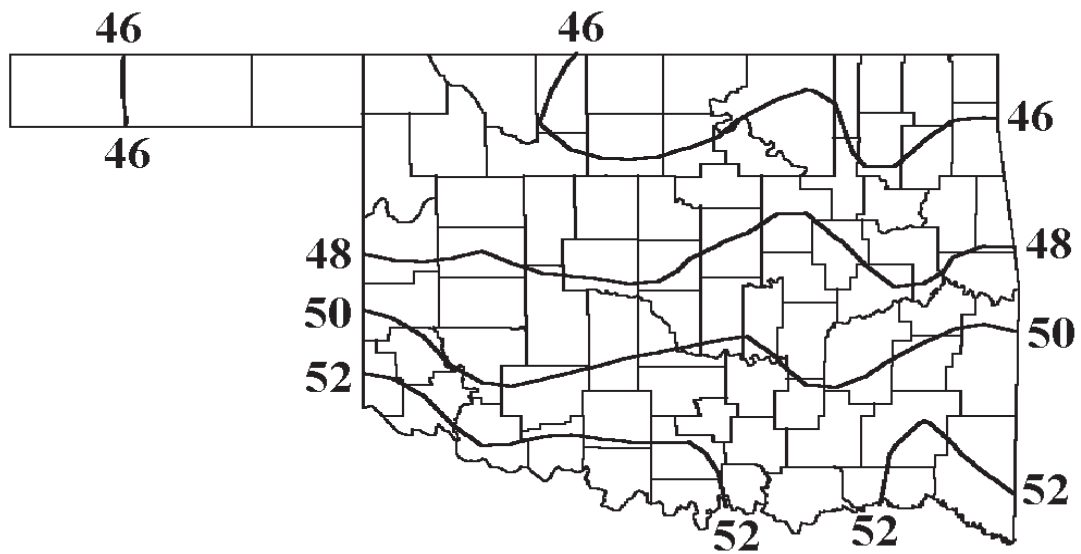
TABLE OF 2000/2001 COMPARISONS

Station	NOVEMBER Temperature (F)		NOVEMBER Precipitation (in.)	
	2000	2001	2000	2001
Arnett	39.7	51.0	0.26	0.62
Enid	42.9	53.9	2.27	1.20
Tulsa	43.8	55.2	3.51	3.44
Elk City	41.6	53.6	1.87	1.47
Oklahoma City	43.3	53.8	2.79	1.06
McAlester	45.2	56.2	5.27	1.26
Altus Irr Station	44.2	56.0	2.28	2.10
Ardmore	47.5	57.0	6.66	0.84
Idabel	48.8	58.1	17.01	3.67

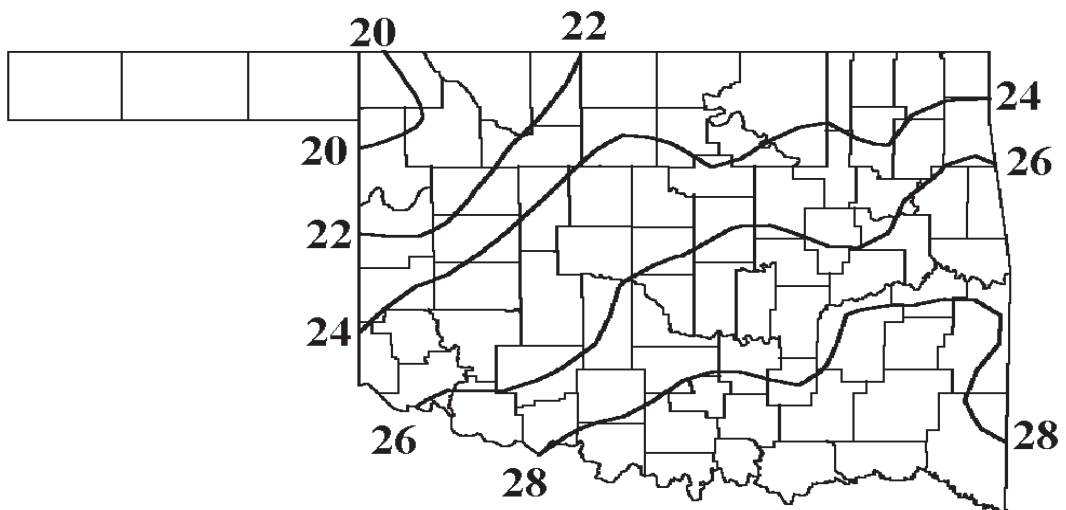
NOVEMBER 2001 STATEWIDE EXTREMES

VARIABLE	STATION	DIVISION	OBSERVATION	DATE
Minimum temperature (F)	Fort Supply	2	7	28
	Fort Supply	2	7	29
Maximum temperature (F)	Hollis	7	90	1
Maximum 24-hour Precipitation	Ingalls	5	3.50	4

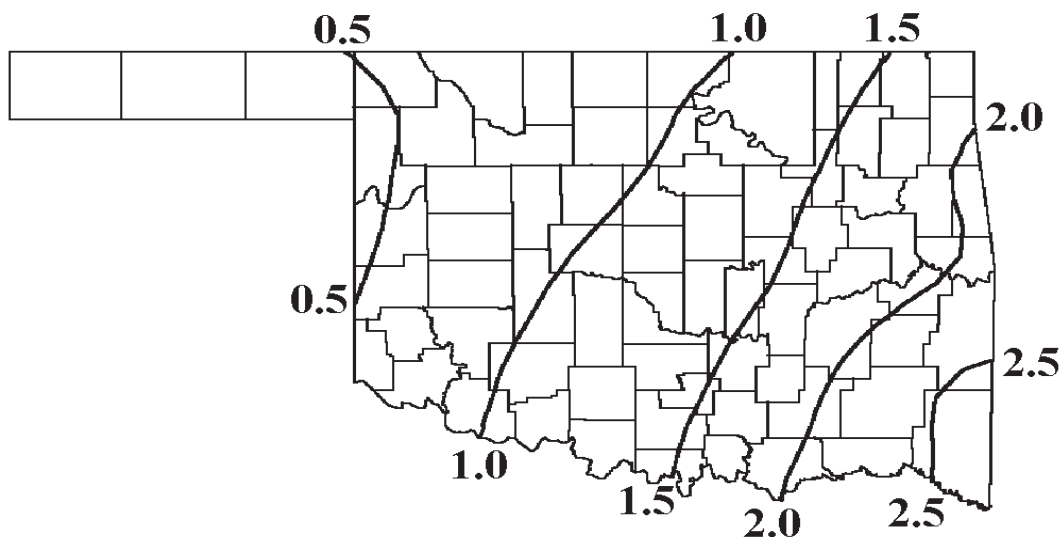
JANUARY NORMAL DAILY MAXIMUM TEMPERATURE (°F)



JANUARY NORMAL DAILY MINIMUM TEMPERATURE (°F)



JANUARY NORMAL MONTHLY PRECIPITATION (INCHES)



JANUARY TORNADO STATISTICS

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

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

OUTLOOK FOR JANUARY 2002 THROUGH MARCH 2002

BASED ON SEASONAL OUTLOOK PROVIDED BY THE CLIMATE PREDICTION CENTER

Temperature: Above Normal Temperature Statewide

Precipitation: Above Normal Precipitation Statewide

OKLAHOMA CITY CLIMATE CALENDAR

JANUARY

The data on this calendar are for Oklahoma City, Oklahoma.
 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.	Ave. High	Record High	Lowest Max	Year	Ave. Low	2002	Highest Min.	Year	Record Low	Year	Avg. Precip.	2002	Greatest Precip.	Year
1	36	47	74	13	1910	25		51	1966	2	1928	0.04		0.63	1892
2	36	47	78	13	1997	25		56	1950	-2	1911	0.04		1.01	1951
3	36	47	78	10	1997	25		56	1997	-9	1911	0.04		1.03	1908
4	36	47	72	11	1927	25		60	1955	-7	1947	0.04		2.02	1998
5	36	46	71	18	1927	25		48	1946	-2	1959	0.04		1.00	1962
6	36	46	68	14	1921	25		52	1907	-2	1912	0.04		1.02	1934
7	36	46	73	15	1965	25		61	1907	-3	1912	0.04		0.93	1944
8	36	46	71	11	1923	25		49	1949	-4	1988	0.03		1.45	1939
9	35	46	70	9	1902	25		49	1900	-2	1977	0.03		0.62	1993
10	35	46	75	13	1990	25		45	1898	-3	1977	0.03		0.66	1905
11	35	46	77	2	1911	25		50	1898	-7	1918	0.03		1.10	1916
12	35	46	73	6	1935	25		51	1960	-7	1912	0.03		0.78	1927
13	35	46	74	11	1996	25		51	1952	-4	1916	0.03		0.79	1992
14	35	46	75	12	1928	25		50	1928	-1	1905	0.03		0.46	1898
15	35	46	77	14	1914	25		53	1969	-2	1905	0.03		0.65	1949
16	35	46	76	11	1894	25		57	1990	0	1930	0.03		0.70	1990
17	36	46	73	8	1894	25		52	1894	-9	1930	0.03		1.16	1926
18	36	46	74	8	1951	25		48	1895	-9	1930	0.03		1.07	1968
19	36	47	75	12	1914	25		54	1904	-11	1892	0.04		2.76	1894
20	36	47	80	18	1886	25		53	1921	1	1985	0.04		1.29	1904
21	36	47	71	12	1967	25		56	1921	-3	1930	0.04		1.40	1932
22	36	47	79	16	1967	25		50	1921	-8	1930	0.04		0.39	1920
23	36	47	75	13	1909	25		51	1967	-1	1963	0.04		1.16	1921
24	36	47	81	8	1950	25		51	1944	-8	1894	0.04		0.37	1949
25	36	47	77	15	1952	25		58	1944	-3	1894	0.04		1.26	1949
26	36	47	72	12	1953	26		54	1911	0	1902	0.04		1.25	1916
27	37	48	72	17	1914	26		56	1914	3	1963	0.04		0.62	1985
28	37	48	78	21	1893	26		60	1968	5	1948	0.04		0.44	1989
29	37	48	76	13	1911	26		51	1982	-1	1895	0.04		1.84	1982
30	37	48	74	16	1917	26		55	1988	-1	1895	0.04		1.34	1982
31	37	48	83	6	1911	26		52	1911	-1	1979	0.04		1.98	1923
MONTH	35.9	46.7	83	2	1911	25.2		61	1907	-11	1892	1.13		2.76	1894

DATA COURTESY OF NATIONAL WEATHER SERVICE – NORMAN
 Temperatures are in degrees Fahrenheit; precipitation is in inches.

TULSA CLIMATE CALENDAR

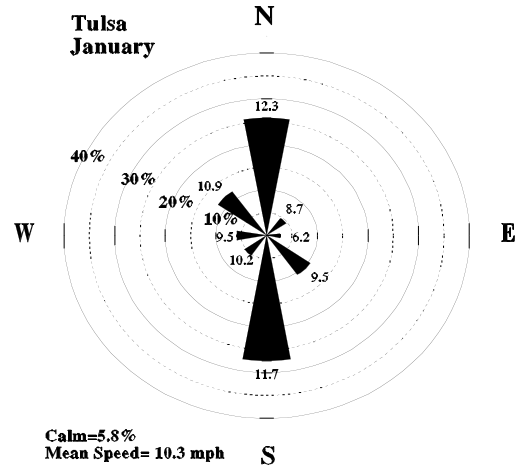
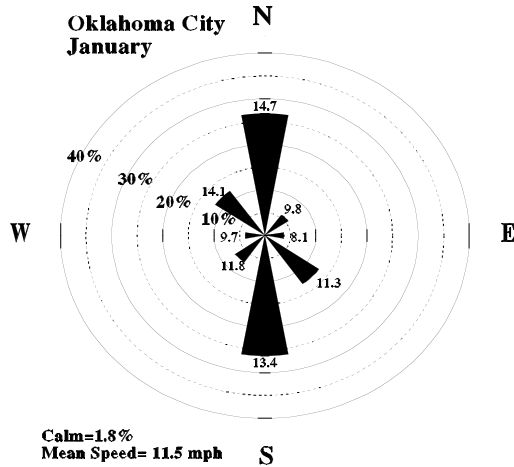
JANUARY

The data on this calendar are for Tulsa, Oklahoma.
 Normal values are calculated for the period 1961-1990.
 Temperature extremes are for the period 1905-2000.
 Precipitation extremes are for the period 1888-2001.

Day	Avg. Temp.	Ave. High	2002	Record High	Year	Lowest Max	Year	Ave. Low	2002	Highest Min.	Year	Record Low	Year	Avg. Precip.	2002	Greatest Precip.	Year
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	2001	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		74	2000	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		1.07	2001
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	45.387		82	1909	2	1918	24.903		64	1907	-16	1930	0.05		2.20	1916

DATA COURTESY OF NATIONAL WEATHER SERVICE – TULSA
 Temperatures are in degrees Fahrenheit; precipitation is in inches.

JANUARY WIND ROSES



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 2002

ALL TIMES ARE CENTRAL STANDARD TIME

OKLAHOMA CITY			TULSA		
DATE	SUNRISE	SUNSET	DATE	SUNRISE	SUNSET
1/1/02	7:39 AM	5:28 PM	1/1/02	7:35 AM	5:20 PM
1/2/02	7:40 AM	5:29 PM	1/2/02	7:35 AM	5:21 PM
1/3/02	7:40 AM	5:30 PM	1/3/02	7:35 AM	5:22 PM
1/4/02	7:40 AM	5:31 PM	1/4/02	7:35 AM	5:23 PM
1/5/02	7:40 AM	5:32 PM	1/5/02	7:35 AM	5:24 PM
1/6/02	7:40 AM	5:33 PM	1/6/02	7:35 AM	5:25 PM
1/7/02	7:40 AM	5:33 PM	1/7/02	7:35 AM	5:25 PM
1/8/02	7:40 AM	5:34 PM	1/8/02	7:35 AM	5:26 PM
1/9/02	7:40 AM	5:35 PM	1/9/02	7:35 AM	5:27 PM
1/10/02	7:40 AM	5:36 PM	1/10/02	7:35 AM	5:28 PM
1/11/02	7:40 AM	5:37 PM	1/11/02	7:35 AM	5:29 PM
1/12/02	7:39 AM	5:38 PM	1/12/02	7:35 AM	5:30 PM
1/13/02	7:39 AM	5:39 PM	1/13/02	7:34 AM	5:31 PM
1/14/02	7:39 AM	5:40 PM	1/14/02	7:34 AM	5:32 PM
1/15/02	7:39 AM	5:41 PM	1/15/02	7:34 AM	5:33 PM
1/16/02	7:38 AM	5:42 PM	1/16/02	7:34 AM	5:34 PM
1/17/02	7:38 AM	5:43 PM	1/17/02	7:33 AM	5:35 PM
1/18/02	7:38 AM	5:44 PM	1/18/02	7:33 AM	5:36 PM
1/19/02	7:37 AM	5:45 PM	1/19/02	7:33 AM	5:37 PM
1/20/02	7:37 AM	5:46 PM	1/20/02	7:32 AM	5:38 PM
1/21/02	7:37 AM	5:47 PM	1/21/02	7:32 AM	5:39 PM
1/22/02	7:36 AM	5:48 PM	1/22/02	7:31 AM	5:40 PM
1/23/02	7:36 AM	5:49 PM	1/23/02	7:31 AM	5:41 PM
1/24/02	7:35 AM	5:50 PM	1/24/02	7:30 AM	5:42 PM
1/25/02	7:34 AM	5:51 PM	1/25/02	7:29 AM	5:43 PM
1/26/02	7:34 AM	5:52 PM	1/26/02	7:29 AM	5:44 PM
1/27/02	7:33 AM	5:53 PM	1/27/02	7:28 AM	5:45 PM
1/28/02	7:33 AM	5:54 PM	1/28/02	7:27 AM	5:47 PM
1/29/02	7:32 AM	5:55 PM	1/29/02	7:27 AM	5:48 PM
1/30/02	7:31 AM	5:56 PM	1/30/02	7:26 AM	5:49 PM
1/31/02	7:30 AM	5:57 PM	1/31/02	7:25 AM	5:50 PM

CONTACT INFORMATION



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