

# OKLAHOMA MONTHLY CLIMATE SUMMARY

# OCTOBER 2001

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**Oklahoma Climatological Survey**

## MONTHLY SUMMARY FOR OCTOBER 2001

### **October 2001**

*Statewide average temperature = 60.6° F*

*Statewide average rainfall = 2.17 inches*

Western Oklahoma was very dry during October, offsetting substantial rain in the east during the first half of the month, leaving the state with less-than-normal monthly precipitation to accompany the lower than normal temperatures experienced in most areas. The statewide-averaged precipitation for October of 2.17 inches was 0.90 inches less than normal and ranks this as the state's 43<sup>rd</sup> driest October since 1892. The panhandle and west central climate divisions each recorded less than ten percent of normal precipitation for the month while the north central and southwest climate divisions both received less than one-fourth of the October normal precipitation. Only the panhandle division recorded a division-average temperature that was greater than normal. The statewide averaged temperature of 60.6 degrees was 1.5 degrees less than normal, ranking 24<sup>th</sup> over the 110 Octobers on record.

Total precipitation through the first ten months of 2001 has averaged 28.11 inches, statewide, falling 2.04 inches behind the normal accumulation and ranking as the 42<sup>nd</sup> driest such period. The persistent dryness in much of the state is illustrated by a June-through-October statewide averaged precipitation of 11.38 inches, 5.50 inches less than normal for the period and the 15<sup>th</sup> driest such period on record. The statewide-averaged temperature for the 10-month period is 63.5 degrees, 0.1 degree greater than normal and the 56<sup>th</sup> warmest of 110 such periods on record.

### **October Normals**

*Statewide average temperature = 62.1° F*

*Statewide average rainfall = 3.07 inches*

A rash of tornadoes, rare for October, struck western Oklahoma on October 9<sup>th</sup>. Cordell (Washita County) suffered 69 injuries, the destruction of 168 structures, and damage to 368 others when an F3 tornado swept through town. The storm caused approximately \$7 million in property loss and debris associated with the storm was deposited 160 miles to the northwest, near Perry (Noble). Two other F3 tornadoes missed heavily populated areas. One storm in Kiowa County traveled from near Gotebo to Mountain View, injuring one and destroying 5 houses and a school building. The other F3 tornado traversed a path from near Elk City in Beckham County to the vicinity of the Foss Reservoir Dam in Custer County. Ten lesser tornadoes were reported in Caddo, Beckham, Roger Mills, Washita, and Kiowa counties, all in western Oklahoma. The twelve tornadoes were the second most reported in the state during October since the beginning of reliable tornado records in 1950.

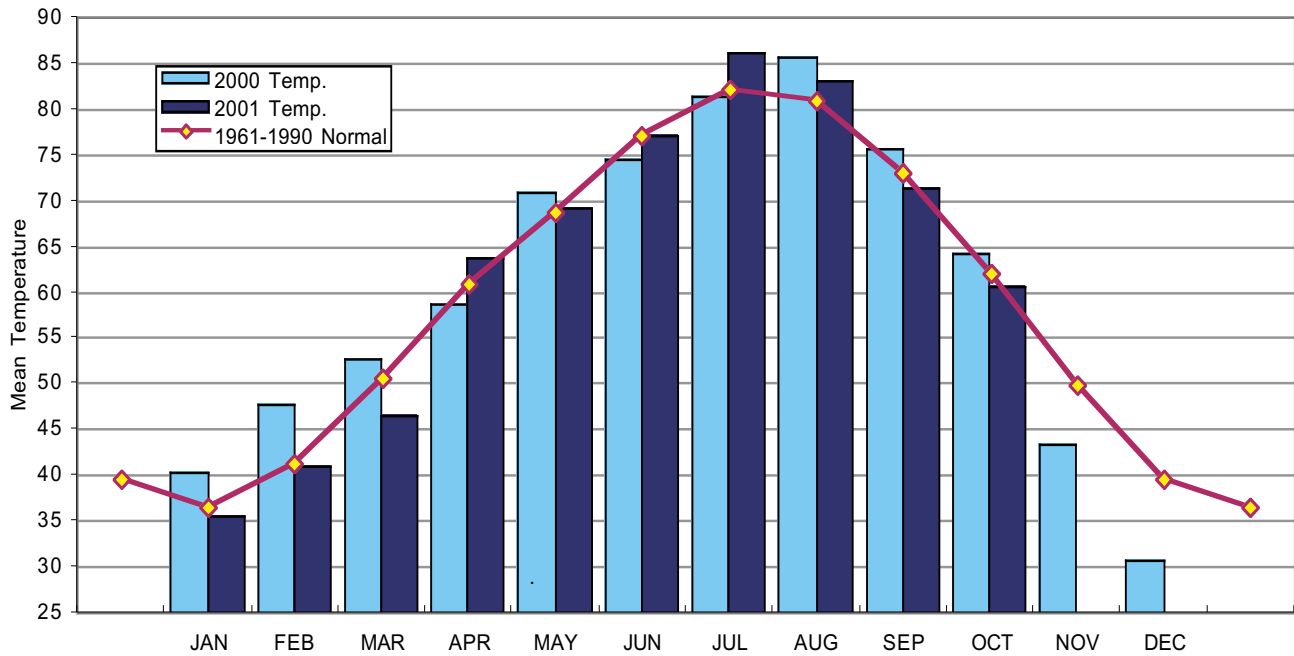
**(Continued on page 3)**

Other severe weather incidents reported on the 9<sup>th</sup> included: 69 mile-per-hour winds at Tinker air Force Base (Oklahoma), 61 mile-per-hour winds at the Arnett (Ellis) Mesonet site, and 2-inch hail near Cogar (Caddo). Large hail and strong thunderstorm winds were reported in eastern Oklahoma on the 10<sup>th</sup>. Thunderstorms in the southwest produced several incidents of large hail on the 12<sup>th</sup>.

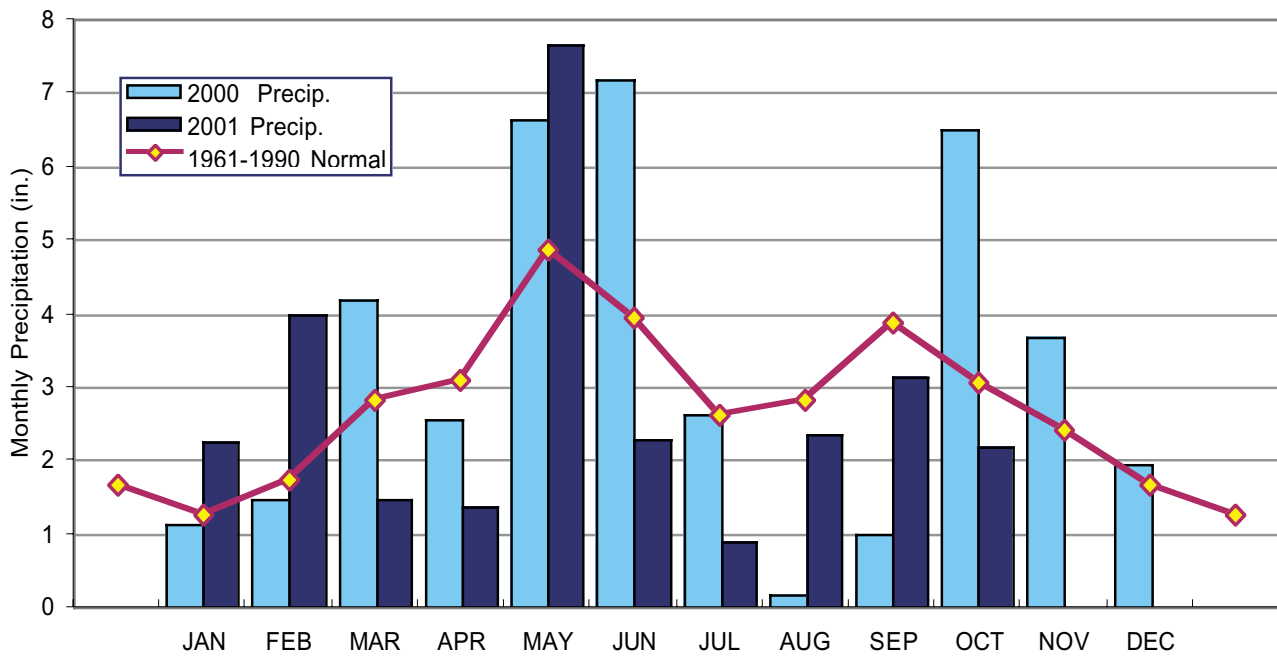
Virtually all of the precipitation was reported during the first half of the month. The greatest daily precipitation reports included: Tahlequah Mesonet (Cherokee) 10<sup>th</sup>, 4.33 inches; Madill (Marshall) 11<sup>th</sup>, Tishomingo (Johnston) 10<sup>th</sup>, 4.05 inches; Centrahoma (Coal) 11<sup>th</sup>, 3.90 inches; and Miami (Ottawa): 5<sup>th</sup>, 3.70 inches.

Howard L. Johnson  
Associate State Climatologist

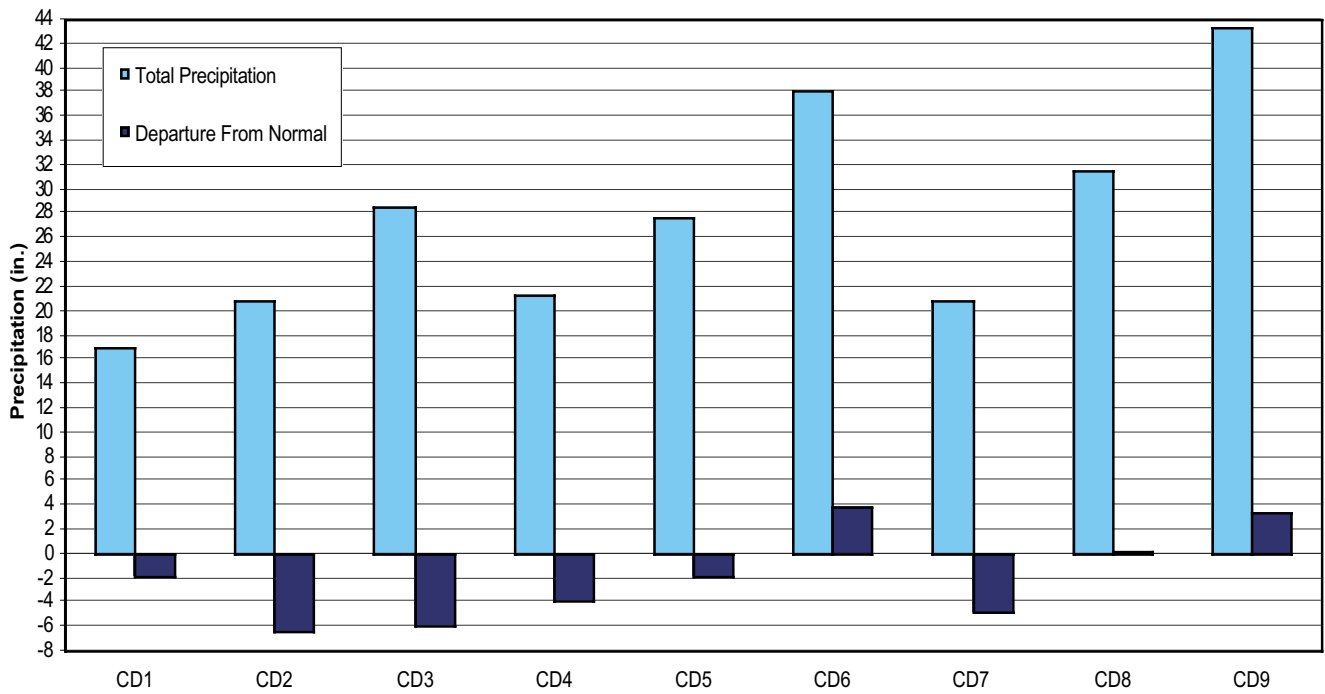
## 2000 AND 2001 STATEWIDE TEMPERATURES - MONTHLY AVERAGES



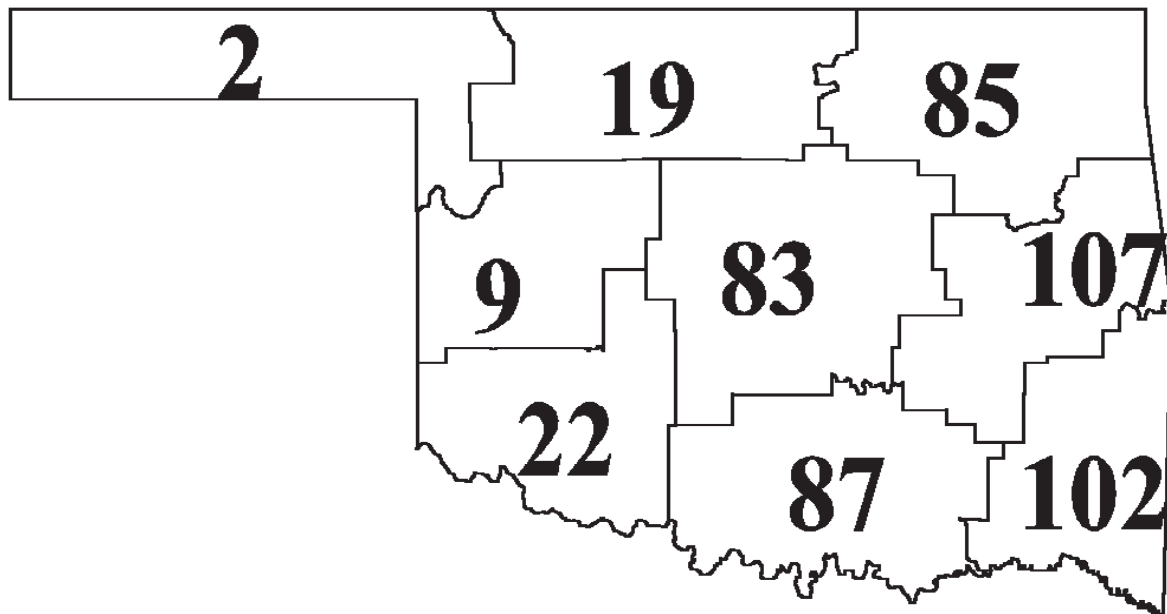
## 2000 AND 2001 STATEWIDE PRECIPITATION - MONTHLY TOTALS



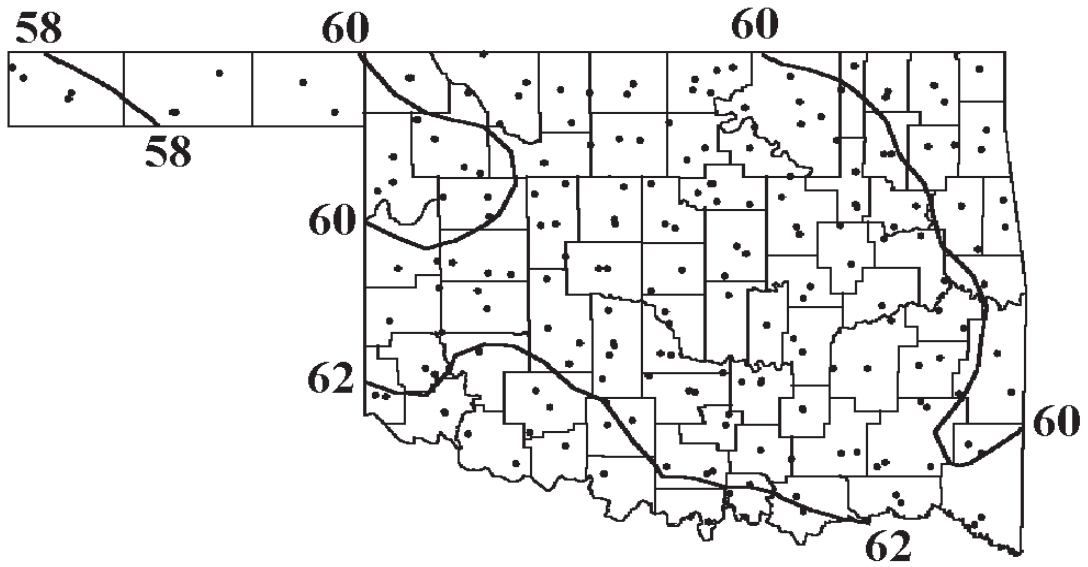
## CLIMATE DIVISION AVERAGED PRECIPITATION - JANUARY THROUGH OCTOBER 2001



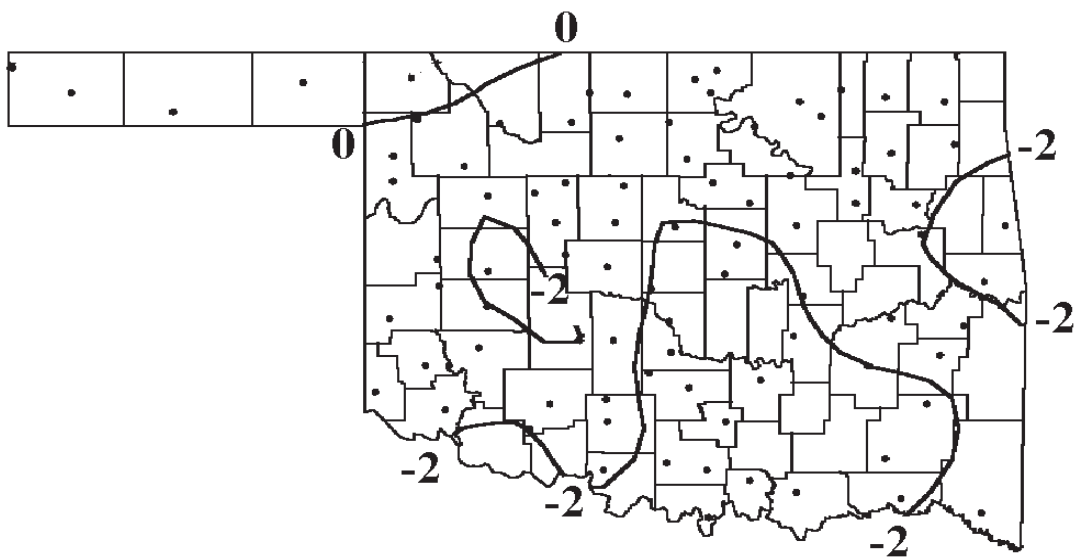
## CLIMATE DIVISION PERCENT OF NORMAL PRECIPITATION - OCTOBER 2001



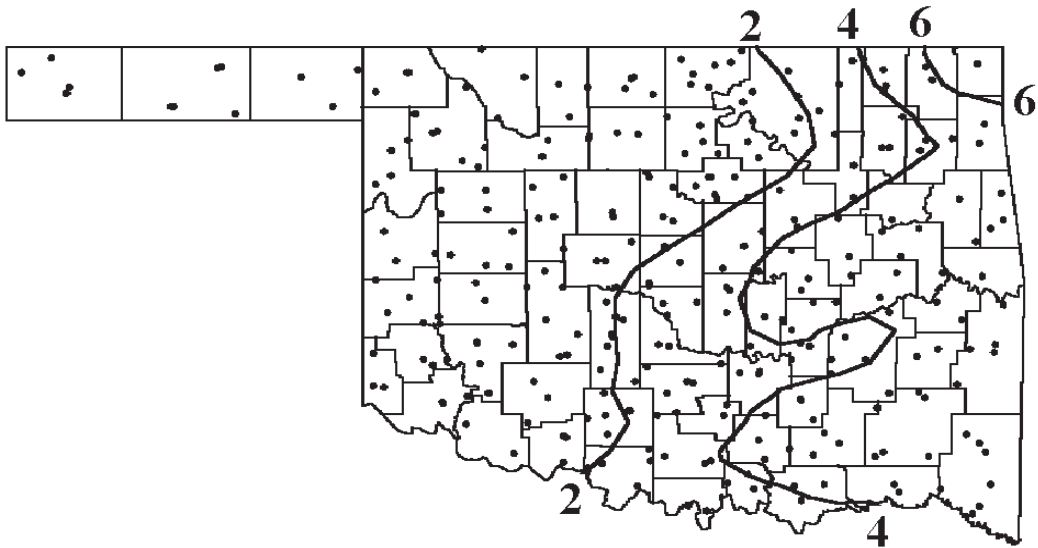
OCTOBER 2001 AVERAGE MONTHLY TEMPERATURE (°F)



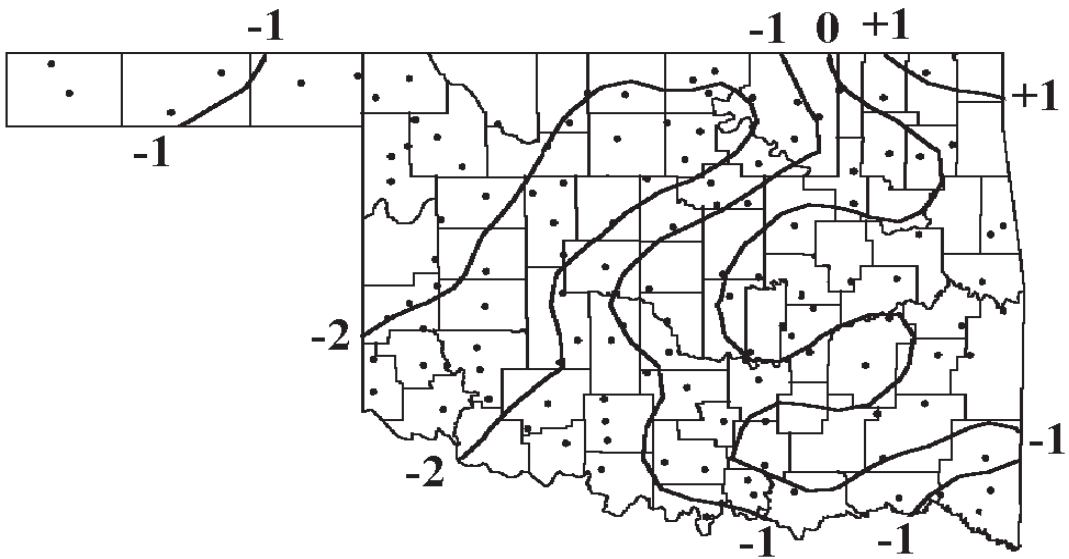
OCTOBER 2001 DEPARTURE FROM NORMAL TEMPERATURE (°F)



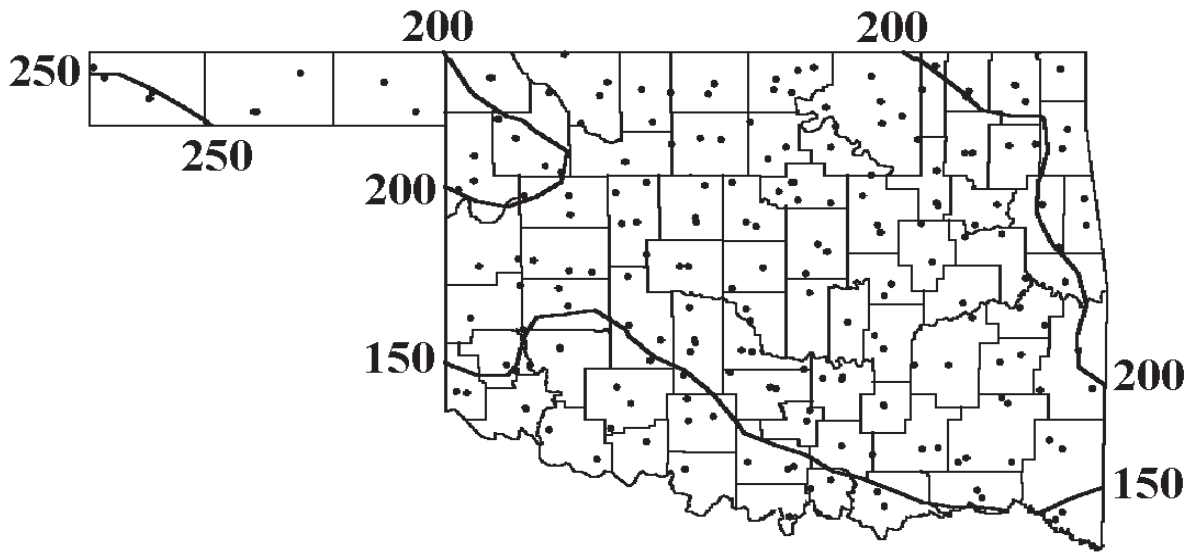
OCTOBER 2001 TOTAL PRECIPITATION (INCHES)



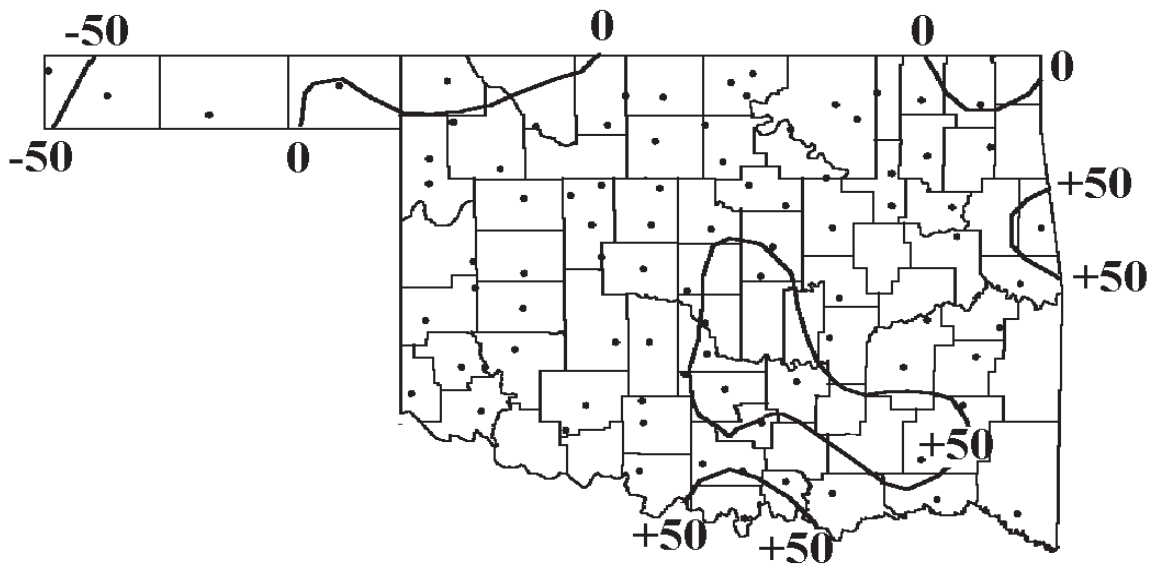
OCTOBER 2001 DEPARTURE FROM NORMAL PRECIPITATION (INCHES)



OCTOBER 2001 ACCUMULATED HEATING DEGREE DAYS (°F)



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





## OCTOBER 2001 SUMMARY FOR PANHANDLE CLIMATE DIVISION (CD1)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV		MIN	HEAT DEG	DEV FROM	COOL DEG	DEV FROM	TOT PPT	NUM OBS	DEV		24-HR	DAY	
					FROM NORM	MAX TEMP								FROM NORM	MAX			
ARNETT	332	1	58.0	31	-0.8	85	5	28	17	226	3	8	0.000	31	-1.83	0.00	31	
BEAVER	593	1	57.4	31	-0.2	89	10	20	17	267	20	32	0.150	31	-1.04	0.15	9	
BOISE CITY	908	1	58.2	31	1.0	88	28	28	28	224	-31	13	0	0.051	31	-0.81	0.05	27
BUFFALO	1243	1	65.7	31	4.1	94	4	30	26	78	-79	101	50	0.000	31	-1.94	0.00	31
FARGO	3070	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.000	31	-1.64	0.00	31
GAGE	3407	1	59.2	31	-1.2	88	4	26	16	219	34	38	-5	0.012	31	-1.55	0.00	28
GATE	3489	1	59.0	29	*****	88	12	32	17	194	*****	21	*****	0.120	31	-1.29	0.10	9
GOODWELL	3628	1	58.7	31	1.9	91	9	28	16	229	-40	32	18	0.000	31	-0.96	0.00	31
GUYMON	3835	1	60.0	29	*****	89	10	27	26	189	*****	43	*****	0.000	30	*****	0.00	31
HOOKER	4298	1	60.3	29	*****	91	8	31	14	174	*****	38	*****	0.000	31	-0.94	0.00	31
KENTON	4766	1	57.9	30	2.2	87	2	23	13	231	-69	19	8	0.140	30	*****	0.14	12
LAVERNE	5045	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.020	31	-1.39	0.02	5
RANGE	7412	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.010	31	*****	0.01	8
REGNIER	7534	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.004	31	-0.76	0.00	28
TURPIN	9017	1	57.3	23	*****	92	1	27	17	201	*****	24	*****	0.000	24	*****	0.00	31

## OCTOBER 2001 SUMMARY FOR NORTH CENTRAL CLIMATE DIVISION (CD2)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV		MIN	HEAT DEG	DEV FROM	COOL DEG	DEV FROM	TOT PPT	NUM OBS	DEV		24-HR	DAY	
					FROM NORM	MAX TEMP								FROM NORM	MAX			
ALVA	193	2	60.3	31	*****	90	5	32	28	183	*****	36	*****	0.000	31	*****	0.00	31
VANCE AFB	302	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.031	28	*****	0.03	10
BILLINGS	755	2	60.2	31	-0.7	85	5	31	27	179	12	30	-10	0.650	31	-2.08	0.55	13
BLACKWELL 2E	818	2	60.0	31	-1.2	86	5	32	17	180	24	25	-15	1.241	31	-1.46	0.86	5
BRAMAN	1075	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.080	31	*****	1.02	5
CEDARDALE	1620	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.711	31	*****	0.70	9
CHEROKEE	1724	2	59.3	26	*****	86	5	28	16	167	*****	18	*****	0.200	27	*****	0.20	5
ENID	2912	2	60.7	31	-1.7	89	3	35	16	164	27	30	-26	0.134	31	-2.98	0.13	10
FT SUPPLY	3304	2	57.4	31	-1.5	88	4	23	16	252	41	17	-5	0.031	31	-1.51	0.03	4
FREEDOM	3358	2	60.5	7	*****	89	5	28	25	43	*****	11	*****	0.020	7	*****	0.02	5
GREAT SALT P	3740	2	60.5	31	-0.1	88	5	32	27	174	-3	36	-6	0.200	31	-1.86	0.12	10
HARDY	3909	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.811	31	*****	1.71	5
HELENA	4019	2	59.4	31	-0.4	87	5	29	17	196	3	22	-10	0.151	31	-1.94	0.15	10
JEFFERSON	4573	2	59.4	31	-2.6	88	5	27	28	205	63	31	-18	0.310	31	-2.34	0.16	5
LAHOMA	4950	2	61.4	27	*****	89	5	32	26	128	*****	29	*****	0.000	31	*****	0.00	31
LAMONT	5013	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.530	31	*****	0.50	5
MEDFORD	5768	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.970	31	*****	0.75	5
MORRISON	6065	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.100	31	*****	0.10	10
MUTUAL	6139	2	58.8	31	-0.6	87	5	32	27	213	10	21	-9	0.280	31	-1.40	0.23	10
NEWKIRK	6278	2	60.2	30	-1.4	85	5	30	28	178	31	33	-9	0.911	31	-2.32	0.82	5
ORIENTA	6751	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.002	31	-1.88	0.00	10
PERRY	7012	2	61.2	30	-1.6	86	5	35	15	156	29	42	-17	0.050	31	-2.73	0.03	10
PONCA CITY	7201	2	60.6	31	-0.1	86	4	28	27	180	9	44	6	0.992	31	-1.93	0.64	4
RED ROCK	7505	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.070	31	-2.72	0.07	9
WAYNOKA	9404	2	59.3	31	-2.4	89	4	27	15	206	41	31	-33	0.004	31	-1.75	0.00	10
WOODWARD	9760	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.000	31	-1.87	0.00	31

## OCTOBER 2001 SUMMARY FOR NORTHEAST CLIMATE DIVISION (CD3)

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		DAY	
					FROM NORM	MAX TEMP									FROM NORM	MAX 24-HR		
BARNSDALL	535	3	60.3	31	-1.1	86	4	28	27	187	28	42	-8	1.731	31	-1.46	1.73	10
BARTLESVILLE	548	3	60.7	31	-0.9	87	4	27	27	171	21	37	-8	3.871	31	0.57	2.03	5
BIXBY	782	3	59.5	31	-1.0	86	23	31	27	201	24	32	-6	3.350	31	-0.35	1.93	10
BURBANK	1256	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.840	31	-2.25	0.70	5
CHELSEA	1717	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.780	31	*****	1.15	11
CLAREMORE	1828	3	59.1	30	-1.3	85	5	29	28	209	28	33	-6	2.701	31	-0.86	1.07	11
HOLLOW	4258	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.340	31	1.71	2.75	10
HOMINY	4289	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.751	31	-1.21	1.50	10
KANSAS	4672	3	59.5	26	*****	81	24	34	17	166	*****	23	*****	4.990	27	*****	1.68	11
LENAPAH	5118	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.990	31	*****	2.82	5
MANNFORD	5522	3	60.7	30	-1.4	86	4	30	27	167	23	38	-17	2.190	30	*****	0.96	10
MARAMEC	5540	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.462	31	-1.56	1.01	10
MIAMI	5855	3	60.0	25	*****	83	23	31	27	153	*****	27	*****	6.790	29	*****	3.70	4
NOWATA	6485	3	60.7	31	-0.6	85	4	30	27	172	12	39	-7	3.490	31	0.15	1.57	5
PAWHUSKA	6935	3	61.1	31	-0.1	86	4	28	27	167	10	47	8	1.860	31	-1.34	1.10	5
PRYOR	7309	3	59.7	29	*****	85	5	30	28	192	*****	38	*****	3.771	31	-0.04	1.35	11
RALSTON	7390	3	59.5	31	-2.1	86	4	24	27	211	69	41	4	0.321	31	-2.57	0.20	13
SPAVINAW	8380	3	61.7	31	-1.4	82	5	33	27	145	18	44	-25	3.472	31	-0.22	1.24	11
TULSA	8992	3	61.9	31	-0.3	86	23	32	27	149	5	53	-4	2.811	31	-0.85	1.33	10
UPPER SPAV	9101	3	59.2	30	*****	85	12	28	27	213	*****	39	*****	4.340	31	*****	1.15	12
VINITA	9203	3	61.0	30	0.5	82	4	33	17	154	-24	35	-3	4.370	30	*****	1.50	10
WAGONER	9247	3	61.8	30	-1.1	83	23	32	27	144	8	48	-23	6.280	30	*****	2.11	9
WANN	9298	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.021	31	*****	2.53	5

## OCTOBER 2001 SUMMARY FOR WEST CENTRAL CLIMATE DIVISION (CD4)

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		DAY	
					FROM NORM	MAX TEMP									FROM NORM	MAX 24-HR		
CANTON DAM	1445	4	59.5	31	-0.9	86	5	29	17	196	18	25	-12	0.051	31	-1.97	0.05	10
CLINTON	1909	4	59.3	31	-3.2	86	5	32	17	189	61	13	-38	0.012	31	-2.81	0.01	10
COLONY	2039	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.090	31	*****	0.09	10
CORDELL	2125	4	60.1	30	-2.3	87	24	31	17	177	48	29	-20	0.300	31	-2.22	0.30	10
ELK CITY	2849	4	60.6	31	-0.9	88	24	37	28	161	3	25	-25	0.080	31	-1.91	0.08	10
ERICK	2944	4	60.1	31	-1.4	88	5	31	17	182	40	31	-3	0.150	31	-2.01	0.12	10
GEARY	3497	4	60.5	31	-1.2	86	23	33	16	166	14	27	-22	0.302	31	-1.94	0.30	10
HAMMON	3871	4	58.6	30	-0.9	86	24	31	27	209	6	18	-16	1.510	31	-0.47	1.51	10
LEEDEY	5090	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.120	31	-1.78	0.10	10
MACKIE	5463	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.000	31	*****	0.00	31
MORAVIA	6035	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.101	31	-2.29	0.10	12
OKEENE	6629	4	62.9	31	0.1	87	4	34	27	117	-8	51	-6	0.000	31	-2.45	0.00	31
RETROP	7565	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.060	31	*****	0.06	12
REYDON	7579	4	60.7	25	*****	85	24	34	6	130	*****	23	*****	0.150	25	*****	0.15	10
SAYRE	7952	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.060	31	-2.10	0.06	10
SWEETWATER	8652	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.000	31	*****	0.00	31
TALOGA	8708	4	58.0	31	-2.7	87	22	26	16	232	69	15	-15	0.172	31	-1.83	0.12	10
THOMAS	8815	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.630	31	*****	0.63	10
WATONGA	9364	4	60.2	31	-1.5	85	24	32	17	178	31	30	-16	0.052	31	-2.33	0.05	10

## OCTOBER 2001 SUMMARY FOR CENTRAL CLIMATE DIVISION (CD5)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV		DAY	MIN TEMP	DAY	HEAT DEG		DEV		COOL DEG		TOT PPT	NUM OBS	DEV		DAY
					FROM NORM	MAX TEMP				DAY	DEG	FROM NORM	DAY	DEG	FROM NORM			DAY	DEG	
AMBER	200	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	*****	1.280	31	*****	0.74	11	
BLANCHARD	830	5	62.1	28	*****	85	23	35	16	119	*****	39	*****	3.043	31	-0.33	1.69	13		
BRISTOW	1144	5	61.3	31	-1.7	86	23	30	27	163	32	48	-21	4.120	31	0.97	1.92	10		
CHANDLER	1684	5	60.0	30	-2.8	85	24	33	27	184	58	34	-24	2.970	30	*****	1.13	11		
CHICKASHA EXP	1750	5	62.5	31	-0.5	86	23	33	26	131	6	55	-8	1.730	31	-1.52	0.94	13		
COX CITY	2196	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.680	31	*****	1.19	10		
CUSHING	2318	5	60.6	31	-1.0	85	5	32	27	168	14	33	-17	2.130	31	-0.76	1.51	10		
EDMOND	2788	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.050	31	*****	1.80	9		
EL RENO	2818	5	61.6	31	-0.5	85	24	36	27	151	15	46	0	0.220	31	-2.30	0.12	10		
GUTHRIE	3821	5	60.3	31	-2.8	84	5	32	17	183	64	38	-22	2.160	31	-0.55	1.05	10		
HENNESSEY	4055	5	60.2	30	-2.0	86	4	30	16	178	35	34	-22	0.150	30	*****	0.15	9		
INGALLS	4489	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.150	31	*****	0.75	12		
KINGFISHER	4861	5	61.5	31	-1.3	86	28	33	27	147	23	37	-19	0.050	31	-2.28	0.05	10		
KONAWA	4915	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.550	31	0.48	2.30	10		
MARSHALL	5589	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.250	31	-2.50	0.25	13		
MEEKER	5779	5	59.3	31	-3.4	83	5	30	28	208	74	30	-33	3.150	31	-0.39	1.61	11		
MULHALL	6110	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.180	31	*****	0.18	12		
NORMAN NWS	6386	5	60.2	30	-3.1	83	4	35	26	175	63	29	-30	2.671	31	-0.56	1.54	10		
OKEMAH	6638	5	61.5	31	-1.6	83	23	37	6	143	18	35	-33	6.450	31	2.61	2.81	11		
OKLAHOMA CTY	6659	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.562	31	*****	2.35	10		
OKLAHOMA CTY	6661	5	60.2	31	-1.8	85	4	35	16	176	39	26	-19	3.562	31	0.33	2.35	9		
PERKINS	7003	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.560	31	-1.41	1.13	10		
PIEDMONT	7068	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.310	31	*****	1.31	13		
PRAGUE	7264	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.260	31	0.43	2.64	11		
PURCELL	7327	5	60.9	31	-2.3	84	5	32	7	162	43	34	-30	3.160	31	-0.78	1.44	10		
SEMINOLE	8042	5	60.2	29	*****	85	5	34	27	170	*****	31	*****	4.880	29	*****	2.06	10		
SHAWNEE	8110	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.921	31	-0.15	2.26	11		
STELLA	8479	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.950	31	*****	2.30	11		
STILLWATER	8501	5	60.6	31	0.1	86	9	30	26	175	7	40	12	0.971	31	-1.86	0.51	13		
STROUD	8563	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.990	31	*****	1.29	10		
TUCUMSEH	8751	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.520	31	*****	2.00	10		
UNION CITY	9086	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.170	31	-0.10	1.26	10		
TROUSDALE	8960	5	59.7	29	*****	84	24	32	27	193	*****	39	*****	2.220	29	*****	1.60	11		
WELTY	9479	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.270	31	*****	2.80	11		
WEWOKA	9575	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.860	31	1.15	2.88	11		

## OCTOBER 2001 SUMMARY FOR EAST CENTRAL CLIMATE DIVISION (CD6)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV		DAY	MIN TEMP	DAY	HEAT DEG		DEV		COOL DEG		TOT PPT	NUM OBS	DEV		DAY
					FROM NORM	MAX TEMP				DAY	DEG	FROM NORM	DAY	DEG	FROM NORM			DAY	DEG	
ASHLAND	364	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.980	31	*****	3.20	11		
CALVIN	1391	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.800	31	-0.30	2.50	12		
CHECOTAH	1711	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.700	31	0.47	3.25	11		
CLAYTON	1858	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.340	31	*****	2.80	11		
DEWAR	2485	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.150	31	1.19	3.40	11		
DUSTIN	2690	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.061	31	*****	2.70	11		
EUFULA	2993	6	63.7	30	-0.9	83	4	41	16	101	-3	63	-29	3.450	31	-0.67	2.50	11		
HOLDENVILLE	4235	6	61.3	31	-2.3	85	23	35	6	161	45	46	-27	4.020	31	-0.18	2.60	10		
LAKE EUFAULA	4975	6	62.6	25	*****	83	24	41	17	100	*****	41	*****	3.500	25	*****	2.68	11		
LYONS	5437	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.520	31	1.04	2.91	11		
MCALESTER	5664	6	61.1	31	-2.0	83	23	34	16	172	42	51	-21	2.980	31	-1.60	1.56	10		
MCCURTAIN	5693	6	62.4	31	-1.3	83	23	35	26	141	26	61	-15	4.601	31	0.70	2.70	11		
MUSKOGEE	6130	6	60.1	31	-2.5	84	23	34	27	179	45	28	-32	3.990	31	-0.16	2.48	10		
OKTAHA	6678	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.190	31	*****	3.58	11		
SALLISAW	7862	6	61.2	31	-2.0	83	24	34	27	159	34	42	-28	5.530	31	1.09	3.30	11		
SCIPIO	7979	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.600	31	*****	2.61	11		
STILWELL	8506	6	57.4	31	-3.9	80	22	28	28	242	82	7	-39	4.960	31	0.88	3.00	11		
WEBBERS FALL	9445	6	61.3	27	*****	86	24	30	28	143	*****	42	*****	3.760	27	*****	2.96	11		
WETUMKA	9571	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.781	31	0.94	3.26	11		

## OCTOBER 2001 SUMMARY FOR SOUTHWEST CLIMATE DIVISION (CD7)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV		MIN DAY	MIN TEMP	MIN DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV		DAY
					FROM NORM	MAX TEMP										FROM NORM	MAX 24-HR	
ALTUS	179	7	62.4	31	-2.2	92	4	30	16	117	17	35	-54	0.030	31	-2.34	0.03	10
ALTUS DAM	184	7	63.4	31	0.9	89	5	31	17	117	-16	67	12	0.230	31	-2.51	0.23	10
ANADARKO	224	7	59.1	31	-3.3	86	5	30	27	216	87	33	-15	0.700	31	-2.00	0.30	13
APACHE	260	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.220	31	-2.59	0.22	11
ALTUS AFB	447	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.000	28	*****	0.00	31
CHATTANOOGA	1706	7	61.4	31	-2.9	89	24	35	7	152	60	39	-32	1.180	31	-1.54	0.60	11
DUNCAN 11 W	2668	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.970	31	*****	0.90	10
FREDERICK	3353	7	62.0	29	*****	91	22	37	18	132	*****	45	*****	0.100	29	*****	0.06	9
HEADRICK	3998	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.000	31	*****	0.00	31
HOBART	4204	7	62.5	31	-0.4	89	4	31	16	132	5	55	-7	0.132	31	-2.52	0.13	9
HOLLIS	4249	7	63.2	31	-0.1	91	9	31	16	111	-8	56	-10	0.010	31	-2.16	0.01	10
LAWTON	5063	7	61.4	31	-1.2	89	24	36	16	149	19	38	-19	1.560	31	-1.42	1.06	10
LOOKEBA	5329	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.960	31	-1.77	0.96	10
MANGUM	5509	7	59.0	31	-4.8	89	23	29	16	204	94	16	-57	0.010	31	-2.65	0.01	9
RANDLETT	7403	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.070	31	*****	0.39	11
ROOSEVELT	7727	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.020	31	-2.54	0.02	10
SEDAN	8016	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.230	31	*****	0.23	10
SNYDER	8299	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.100	31	-2.43	0.10	10
VINSON	9212	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.060	31	-2.14	0.06	12
WALTERS	9278	7	61.3	27	*****	89	24	36	17	140	*****	41	*****	2.240	31	-1.00	1.00	11
WICHITA MT	9629	7	61.3	29	*****	87	24	31	16	147	*****	40	*****	0.000	30	*****	0.00	31

## OCTOBER 2001 SUMMARY FOR SOUTH CENTRAL CLIMATE DIVISION (CD8)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV		MIN DAY	MIN TEMP	MIN DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV		DAY
					FROM NORM	MAX TEMP										FROM NORM	MAX 24-HR	
ADA	17	8	60.0	31	-3.6	83	23	35	17	184	56	30	-54	3.821	31	-0.42	2.53	11
ALLEN	147	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.000	31	*****	2.35	10
ARDMORE	292	8	63.8	31	-2.3	87	23	39	6	111	32	73	-40	3.890	31	0.05	2.77	11
ATOKA	391	8	60.0	29	*****	85	24	34	27	179	*****	34	*****	5.241	31	*****	2.94	11
BOKCHITO	917	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.420	31	*****	3.02	11
CANEY	1437	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.890	31	*****	3.27	11
CENTRAHOMA	1648	8	61.0	31	*****	85	24	37	26	171	*****	46	*****	5.100	31	*****	3.90	11
CHICKASAW	1745	8	61.1	31	-1.3	86	24	33	16	166	38	47	-2	3.790	31	-0.73	2.10	11
COLEMAN	2011	8	61.4	31	*****	86	23	37	5	151	*****	39	*****	4.600	31	*****	3.45	11
COMANCHE	2054	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.990	31	-2.18	0.77	11
DAISY	2354	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.301	31	0.79	3.02	11
DUNCAN	2660	8	62.2	31	-1.0	86	5	36	18	131	9	44	-23	2.590	31	-0.77	1.16	13
DURANT	2678	8	62.0	31	-1.4	88	23	36	29	148	32	55	-11	4.680	31	0.50	3.33	10
ELMORE CITY	2872	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.920	31	*****	2.92	11
GRADY	3688	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.850	31	*****	2.55	10
HEALDTON	4001	8	61.3	31	-2.7	87	24	37	17	157	55	43	-29	3.270	31	-0.31	2.10	11
HENNEPIN	4052	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.790	31	*****	1.84	11
KETCHUM RAN	4780	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.250	31	*****	1.55	10
KINGSTON	4865	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.300	31	-1.97	1.80	11
LEHIGH	5108	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.303	31	*****	1.30	12
LINDSAY	5216	8	60.4	31	-3.0	85	4	34	26	180	70	37	-24	1.960	31	-1.69	0.87	9
LOCO	5247	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.920	31	*****	1.51	11
MADILL	5468	8	63.2	31	-1.8	89	25	38	27	128	39	73	-17	5.390	31	1.09	4.12	11
MARIETTA	5563	8	60.7	31	-4.5	88	24	33	27	183	100	50	-41	1.940	31	-1.76	1.29	11
MARLOW	5581	8	63.1	31	-0.3	89	4	32	16	110	-8	52	-16	2.310	31	-1.27	1.13	11
MCGEE CREEK	5713	8	61.7	30	*****	85	24	39	17	143	*****	43	*****	4.480	30	*****	2.55	11
PAULS VALLEY	6926	8	59.9	31	-4.1	85	5	33	27	192	92	33	-37	3.240	31	-0.69	2.40	11
PONTOTOC	7214	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.710	31	0.50	3.15	10
TISHOMINGO	8884	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.970	31	0.60	4.05	10
TUSSY	9032	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.700	31	*****	0.70	9
WAURIKA	9395	8	63.9	31	-1.2	89	23	35	16	95	9	61	-28	1.351	31	-1.61	0.85	10

## OCTOBER 2001 SUMMARY FOR SOUTHEAST CLIMATE DIVISION (CD9)

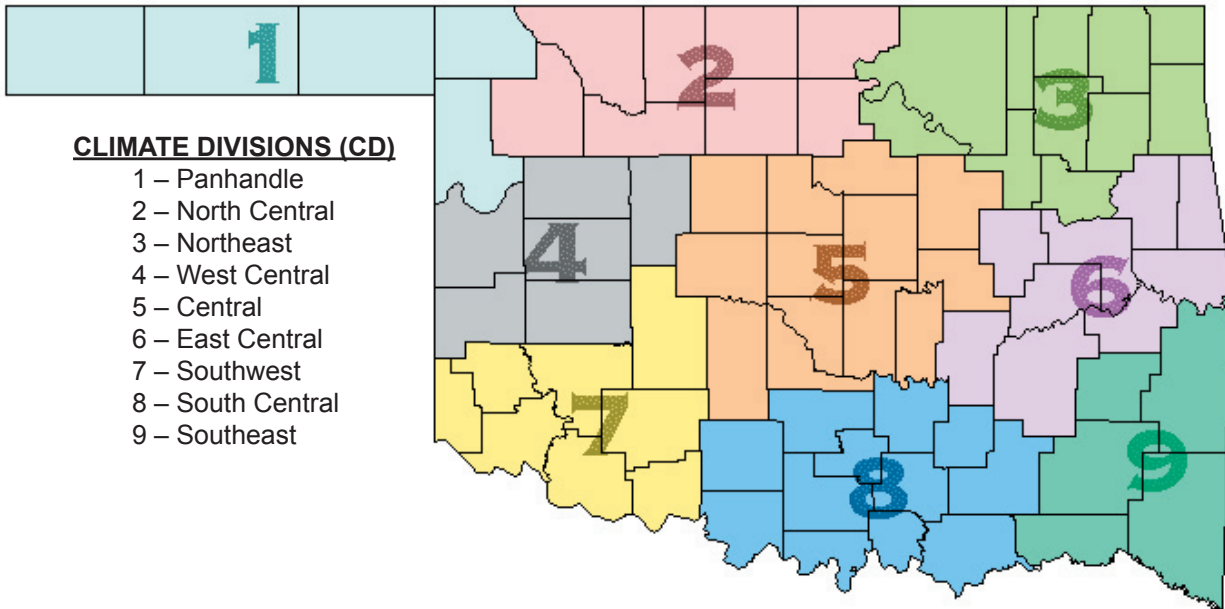
NAME	ID	CD	MEAN TEMP	NUM OBS	FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	DEG DAY	FROM NORM	DEG DAY	FROM NORM	TOT PPT	NUM OBS	FROM NORM	MAX 24-HR	DAY
ANTLERS	256	9	59.7	31	-3.6	84	24	32	27	206	86	43	-24	4.460	31	-0.12	2.70	11
BATTIEST	567	9	56.6	30	*****	80	24	29	17	269	*****	18	*****	3.511	31	*****	1.32	11
BROKEN BOW	1162	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.760	31	0.43	1.70	13
CARNASAW	1499	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.060	26	*****	0.06	6
CARTER TWR	1544	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.690	31	-1.37	2.00	13
FANSHAWE	3065	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.000	31	2.11	2.59	11
HUGO	4384	9	62.6	31	-2.2	85	24	36	18	126	34	53	-33	3.511	31	-0.73	1.97	15
IDABEL	4451	9	62.4	31	-1.0	86	1	40	17	115	-1	33	-32	6.850	31	2.38	3.21	13
PAGE	6842	9	60.0	30	*****	79	25	28	27	191	*****	41	*****	4.550	30	*****	3.20	11
SMITHVILLE	8285	9	57.0	28	*****	81	24	27	28	245	*****	21	*****	2.842	30	*****	1.17	11
SPIRO	8416	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.670	31	-0.15	2.44	11
TUSKAHOMA	9023	9	61.7	31	-2.1	84	23	31	17	160	52	57	-14	5.150	31	0.94	2.48	11
VALLIANT	9118	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.850	31	-0.15	1.93	13
WILBURTON	9634	9	60.2	31	-2.1	82	23	32	26	183	43	33	-24	4.730	31	0.42	2.66	10
WISTER	9724	9	59.7	24	*****	81	31	33	17	134	*****	6	*****	4.240	31	*****	2.00	11

## OCTOBER 2001 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	59.3	7	0.9	94	4	20	17	210	-21	34	8	0.030	12	-1.26	0.15	9
CLIMATE DIVISION 2	2	59.8	13	-1.2	90	5	23	16	189	26	30	-12	0.440	23	-1.88	1.71	5
CLIMATE DIVISION 3	3	60.6	13	-0.8	87	4	24	27	176	16	40	-7	2.940	18	-0.53	3.70	4
CLIMATE DIVISION 4	4	60.0	10	-1.4	88	5	26	16	180	27	26	-17	0.200	18	-1.99	1.51	10
CLIMATE DIVISION 5	5	60.8	14	-2.0	86	9	30	26	167	39	37	-20	2.710	31	-0.54	2.88	11
CLIMATE DIVISION 6	6	61.0	7	-1.9	86	24	28	28	165	35	42	-23	4.390	17	0.27	3.58	11
CLIMATE DIVISION 7	7	61.5	8	-1.7	92	4	29	16	149	30	42	-24	0.600	18	-2.07	1.06	10
CLIMATE DIVISION 8	8	61.7	15	-2.4	89	23	32	16	150	45	48	-28	3.420	30	-0.49	4.12	11
CLIMATE DIVISION 9	9	60.5	7	-2.7	86	1	27	28	179	56	40	-24	4.540	12	0.11	3.21	13

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**

$$\sum_{i=1} \text{NumDays} \left( 65 - \left( \frac{\text{TMAX}_i + \text{TMIN}_i}{2} \right) \right)$$

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

### **Cooling Degree Days Calculation**

**NumDays**

$$\sum_{i=1} \text{NumDays} \left( \left( \frac{\text{TMAX}_i + \text{TMIN}_i}{2} \right) - 65 \right)$$

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

# MESONET MONTHLY SUMMARY FOR OCTOBER 2001

NAME	MEAN MAX			MIN			TOT MAX				NAME	MEAN MAX			MIN			TOT MAX			
	TEMP	TEMP	DAY	TEMP	DAY	HDD	CDD	PPT	24-HR	DAY		TEMP	TEMP	DAY	TEMP	DAY	HDD	CDD	PPT	24-HR	DAY
<b>PANHANDLE</b>																					
Arnett	59.9	87	4	27	16	189	31	0.00	0.00	1	Goodwell	57.7	89	8	29	13	260	33	0.00	0.00	1
Beaver	59.0	91	8	24	16	233	47	0.14	0.14	8	Hooker	58.0	90	8	27	16	250	32	0.00	0.00	1
Boise City	55.8	87	7	26	13	300	15	0.08	0.05	12	Kenton	56.6	87	2	24	25	284	24	0.04	0.04	12
Buffalo	60.2	89	4	27	27	197	47	0.10	0.09	4	Slapout	59.6	88	4	32	6	200	33	0.01	0.01	5
<b>NORTH CENTRAL</b>																					
Alva	61.2	90	4	29	27	175	57	*****	*****	**	May Ranch	60.9	88	4	35	26	168	40	0.24	0.23	4
Blackwell	60.1	85	3	29	27	183	32	1.08	0.93	4	Medford	60.6	87	3	30	16	178	41	0.50	0.47	4
Breckenridge	60.6	85	3	30	16	172	37	0.13	0.11	9	Newkirk	60.4	86	4	31	27	179	36	1.40	0.94	4
Cherokee	61.0	90	4	29	16	176	51	0.27	0.27	9	Red Rock	60.6	86	4	29	16	178	41	0.27	0.21	9
Fairview	61.7	88	4	33	26	154	52	0.55	0.54	4	Seiling	59.7	86	4	30	16	198	33	0.73	0.70	9
Freedom	60.7	89	4	27	16	188	55	0.10	0.08	4	Woodward	60.4	87	4	33	16	188	44	0.00	0.00	1
Lahoma	60.4	86	4	33	16	177	33	0.00	0.00	1											
<b>NORTHEAST</b>																					
Bixby	59.9	85	23	30	27	193	35	3.64	2.14	10	Nowata	58.5	84	3	24	27	231	29	4.96	1.74	5
Burbank	60.2	86	4	27	27	188	38	0.20	0.10	9	Pawnee	60.5	85	4	29	16	179	40	0.42	0.31	12
Claremore	60.0	87	4	30	27	190	36	2.23	1.05	10	Porter	60.6	85	23	33	27	170	33	6.95	3.50	9
Copan	59.6	87	4	29	27	202	33	3.06	1.22	5	Pryor	58.4	83	3	26	27	230	25	2.88	1.08	10
Foraker	59.7	87	4	30	27	195	32	2.48	1.75	4	Skiatook	61.3	85	4	35	16	156	41	2.29	1.39	9
Jay	58.7	82	23	26	27	224	30	4.54	1.39	10	Vinita	58.3	84	3	26	27	232	24	7.73	3.17	9
Miami	58.6	82	4	28	27	225	26	8.07	3.46	9	Wynona	60.7	87	4	30	26	174	40	1.53	1.35	9
<b>WEST CENTRAL</b>																					
Bessie	62.3	87	4	36	6	134	51	0.05	0.04	11	Putnam	60.4	85	4	32	16	171	29	0.59	0.59	9
Butler	61.3	88	4	30	16	161	47	0.52	0.52	9	Retrop	62.8	88	4	35	16	124	55	0.07	0.06	9
Camargo	59.3	86	4	28	16	203	26	0.21	0.21	9	Watonga	60.9	86	4	35	16	163	37	0.44	0.44	9
Cheyenne	61.3	86	4	37	25	157	43	0.25	0.23	9	Weatherford	62.0	86	4	35	16	132	40	0.26	0.22	9
Erick	60.4	88	9	29	16	182	39	0.07	0.03	9											
<b>CENTRAL</b>																					
Acme	61.5	87	4	31	6	155	48	1.78	0.98	9	Minco	60.9	85	4	37	6	159	31	2.15	1.07	12
Bowlegs	59.9	83	4	33	26	191	32	4.00	2.05	10	Ninnekah	61.6	86	4	34	16	152	46	1.46	0.68	12
Bristow	59.5	85	4	29	26	205	33	3.85	2.09	10	Norman	60.5	83	4	36	26	170	31	2.13	0.92	12
Chandler	60.6	83	4	34	16	168	33	3.20	1.53	10	Oilton	59.1	85	4	26	27	216	33	1.70	0.77	10
Chickasha	61.0	89	4	31	6	168	45	1.56	0.93	12	Okemah	60.0	83	4	33	26	189	32	6.65	2.74	10
El Reno	59.6	85	4	27	6	202	34	0.62	0.44	12	Perkins	61.2	86	4	33	27	158	40	1.18	0.70	10
Guthrie	61.8	84	4	34	16	144	45	1.28	1.24	12	Shawnee	61.2	84	4	37	26	154	36	4.08	2.52	10
Kingfisher	60.9	85	4	29	16	172	45	0.03	0.03	9	Spencer	61.2	83	4	33	16	158	40	1.71	0.66	10
Marena	60.9	84	4	33	16	159	32	0.72	0.37	12	Stillwater	60.2	85	4	29	26	184	36	0.95	0.50	12
Marshall	60.5	84	3	28	16	180	41	0.29	0.23	12	Washington	60.6	83	4	38	16	162	25	3.54	1.57	9
<b>EAST CENTRAL</b>																					
Calvin	59.7	84	23	33	26	195	30	3.06	1.87	10	Sallisaw	60.0	84	23	31	27	188	34	5.12	2.33	10
Cookson	59.1	82	23	28	27	211	28	4.65	2.34	10	Stigler	59.4	84	23	31	26	204	29	4.18	2.11	10
Eufaula	61.9	84	23	37	6	139	44	3.80	2.54	10	Stuart	61.2	83	23	36	6	159	41	3.77	1.96	10
Haskell	59.7	85	23	32	27	192	27	6.86	3.15	9	Tahlequah	58.7	82	23	30	27	218	24	6.41	4.33	10
Hectorville	61.8	85	23	35	16	143	43	3.13	1.51	10	Webbers Falls	61.2	87	23	31	27	163	46	3.31	1.98	10
McAlester	61.0	83	4	33	16	174	50	3.16	1.66	10	Westville	58.5	80	23	30	27	219	17	5.18	3.30	10
Okmulgee	59.6	85	23	30	27	195	28	6.95	2.89	10											
<b>SOUTHWEST</b>																					
Altus	63.0	90	4	30	16	121	58	0.02	0.02	9	Hollis	62.6	91	9	31	16	129	53	0.00	0.00	1
Apache	61.6	86	4	36	6	144	38	0.27	0.17	10	Mangum	61.0	89	4	29	16	169	45	0.01	0.01	9
Fort Cobb	61.9	87	4	32	16	139	43	0.18	0.15	9	Medicine Park	63.7	88	23	41	16	93	51	0.24	0.17	10
Grandfield	63.7	91	23	37	6	104	65	2.40	1.83	10	Tipton	63.1	91	23	30	16	122	64	0.05	0.03	9
Hinton	61.1	86	4	32	16	159	38	0.28	0.28	9	Walters	63.2	90	4	35	6	110	54	1.76	0.89	10
Hobart	61.9	88	4	30	16	144	49	0.12	0.12	9											
<b>SOUTH CENTRAL</b>																					
Ada	60.6	84	4	33	16	174	38	3.58	2.23	10	Lane	61.0	85	23	37	17	167	42	3.96	1.42	11
Ardmore	62.3	85	23	36	16	130	48	3.97	2.21	10	Madill	62.2	87	23	36	16	136	51	5.90	3.15	10
Bee	****	***	**	***	**	*****	****	*****	*****	12	Pauls Valley	61.5	84	4	35	6	151	42	3.05	2.00	10
Burneyville	62.0	88	23	35	25	149	55	3.28	1.89	10	Ringling	****	***	**	***	**	*****	****	2.62	1.72	10
Byars	62.0	83	4	39	16	136	42	3.48	2.42	10	Sulphur	60.8	85	23	34	16	171	42	3.51	2.27	10
Centrahoma	59.8	86	23	32	6	199	38	4.81	3.04	10	Tishomingo	60.2	86	23	35	17	180	32	3.50	1.87	10
Durant	62.3	86	23	40	16	137	54	4.09	1.66	12	Vanoss	61.1	84	4	34	26	163	43	3.59	2.46	10
Ketchum Ranch	61.8	85	4	38	16	137	38	2.16	1.51	10	Waurika	63.0	89	23	35	6	117	53	1.37	0.97	10
<b>SOUTHEAST</b>																					
Antlers	59.3	85	23	30	17	219	41	3.89	1.32	12	Idabel	60.8	84	4	35	17	165	34	5.14	1.62	12
Broken Bow	****	***	**	***	**	*****	****	*****	*****	**	Mt Herman	59.9	80	1	32	16	190	31	3.37	0.99	12
Clayton	60.9	84	23	33	17	170	42	5.10	2.02	10	Talihina	60.8	83	4	31	17	173	44	6.07	1.55	10
Cloudy	60.2	83	23	33	17	180	31	3.53	1.03	12	Wilburton	59.9	83	23	32	16	197	39	4.98	2.00	10
Hugo	61.4	85	23	37	17	158	46	4.40	1.91	11	Wister	58.1	82	23	29	26	238	24	5.12	1.59	11



## EXTREME VALUES OF TEMPERATURE AND PRECIPITATION IN EACH CLIMATE DIVISION OCTOBER 2001

CD	MAX TEMP	DATE	LOCATION	MIN TEMP	DATE	LOCATION	24-HOUR PRECIP	DATE	LOCATION	MONTHLY PRECIP	LOCATION
1	94	4	BUFFALO	20	17	BEAVER	.15	9	BEAVER	.15	BEAVER
2	90	5	ALVA	23 23	15 16	FT SUPPLY FT SUPPLY	1.71	5	HARDY	1.81	HARDY
3	87	4	BARTLESVILLE	24	27	RALSTON	3.70	4	MIAMI	6.79	MIAMI
4	88 88	24 5	ELK CITY ERICK	26	16	TALOGA	1.51	10	HAMMON	1.51	HAMMON
5	86 86 86 86 86	23 4 23 3 4	BRISTOW CHICKASHA EX CHICKASHA EX HENNESSEY HENNESSEY	30 30 30 30 30	27 15 16 28 26	BRISTOW HENNESSEY HENNESSEY MEEKER STILLWATER	2.88	11	WEWOKA	6.45	OKEMAH
6	86	24	WEBBERS FALL	28	28	STILWELL	3.58	11	OKTAHA	5.53	SALLISAW
7	92	4	ALTUS	29	16	MANGUM	1.06	10	LAWTON	2.24	WALTERS
8	89 89 89 89	24 25 4 23	MADILL MADILL MARLOW WAURIKA	32	16	MARLOW	4.12	11	MADILL	5.39	MADILL
9	86	1	IDABEL	27	28	SMITHVILLE	3.21	13	IDABEL	6.85	IDABEL

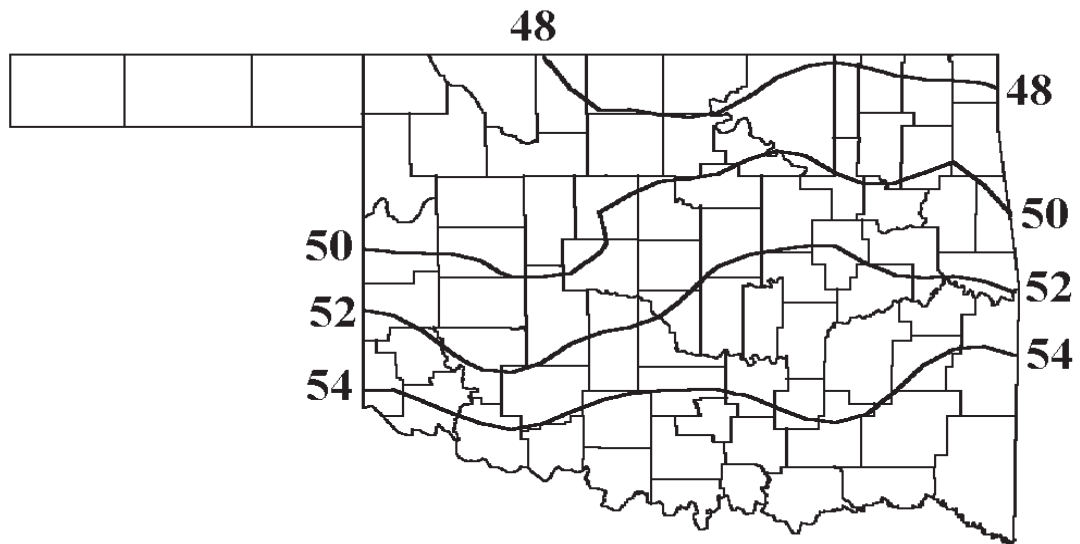
### TABLE OF 2000/2001 COMPARISONS

Station	OCTOBER Temperature ( F)		OCTOBER Precipitation (in.)	
	2000	2001	2000	2001
Arnett	59.9	58.0	11.30	0.00
Enid	63.4	60.7	6.62	0.13
Tulsa	66.1	61.9	6.32	2.81
Elk City	62.4	60.6	3.72	0.08
Oklahoma City	64.1	60.2	8.40	3.56
McAlester	65.7	61.1	4.46	2.98
Altus Irr Station	64.2	62.4	7.95	0.03
Ardmore	68.4	63.8	11.26	3.89
Idabel	67.1	62.4	2.53	6.85

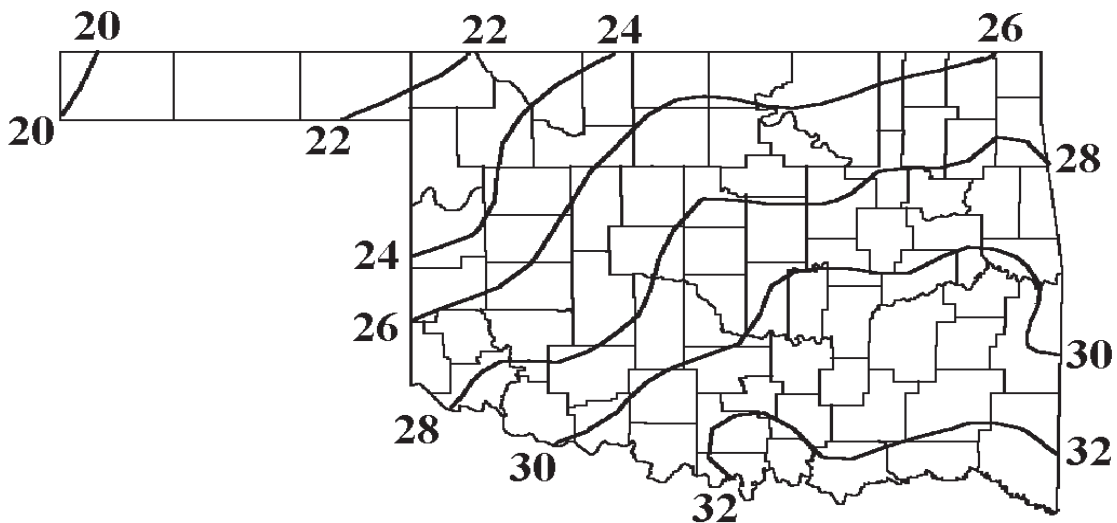
### OCTOBER 2001 STATEWIDE EXTREMES

VARIABLE	STATION	DIVISION	OBSERVATION	DATE
Minimum temperature ( F)	Beaver	1	20	17
Maximum temperature ( F)	Buffalo	1	94	4
Maximum 24-hour Precipitation	Madill	8	4.12	11

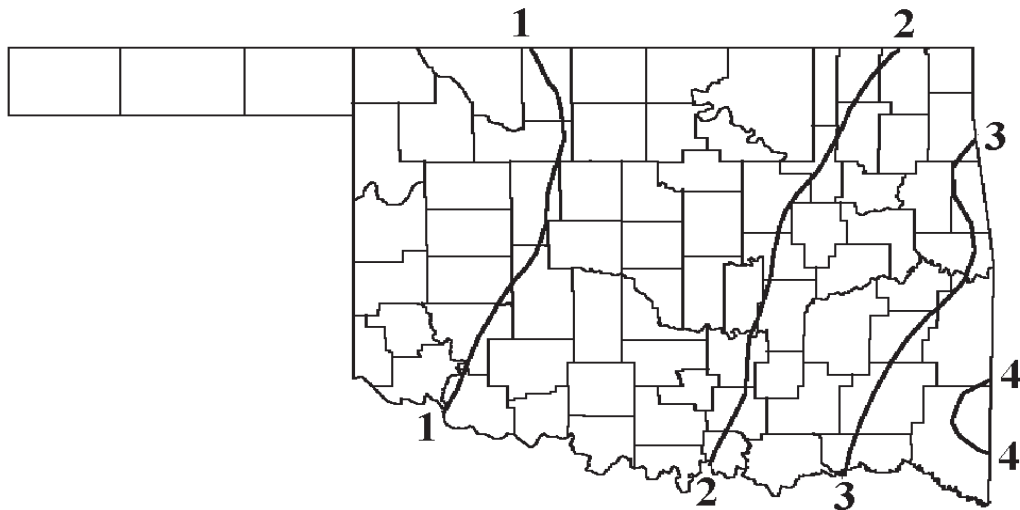
DECEMBER NORMAL DAILY MAXIMUM TEMPERATURE (°F)



DECEMBER NORMAL DAILY MINIMUM TEMPERATURE (°F)



## DECEMBER NORMAL MONTHLY PRECIPITATION (INCHES)



## DECEMBER TORNADO STATISTICS

The most tornadoes reported in **DECEMBER** for Oklahoma was **(4)** in **1982**.

The average number of tornadoes in **DECEMBER** for Oklahoma is **(0.4)**.

## OUTLOOK FOR DECEMBER 2001 THROUGH FEBRUARY 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

## DECEMBER

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	2001	Record High	Year	Lowest Max	Year	Ave. Low	2001	Highest Min.	Year	Record Low	Year	Avg. Precip.	2001	Greatest Precip.	Year
1	44	54		76	1982	20	1985	33		57	1933	12	1985	0.05		0.60	1913
2	43	54		77	1975	20	1919	32		56	1951	10	1985	0.05		1.59	1953
3	43	53		77	1916	15	1897	32		54	1913	6	1897	0.05		1.39	1947
4	43	53		75	1954	25	1972	32		53	1913	6	1897	0.05		2.59	1930
5	42	53		77	1975	31	1992	31		59	1980	9	1950	0.05		1.00	1935
6	42	52		77	1939	19	1972	31		63	1980	4	1950	0.05		2.78	1892
7	42	52		80	1966	19	1909	31		54	1894	5	1950	0.05		1.23	1980
8	41	52		71	1970	17	1917	30		61	1946	1	1917	0.05		1.00	1956
9	41	52		73	1915	15	1919	30		56	1946	3	1919	0.05		1.93	1911
10	41	51		75	1996	22	1917	30		58	1965	3	1919	0.05		1.06	1960
11	40	51		75	1939	21	1961	30		52	1991	5	1917	0.05		1.37	1991
12	40	51		73	1973	17	1932	29		45	1991	6	1932	0.05		1.33	1892
13	40	50		79	1921	17	1958	29		62	1929	4	1917	0.05		1.80	1984
14	39	50		74	1933	10	1901	29		64	1948	-2	1901	0.05		1.37	1902
15	39	50		75	1948	19	1901	29		59	1929	3	1989	0.05		1.53	1984
16	39	50		73	1939	21	1932	28		56	1929	7	1989	0.05		0.56	1931
17	39	49		75	1939	21	1964	28		45	1939	2	1979	0.04		1.68	1959
18	38	49		69	1982	19	1983	28		47	1939	4	1924	0.04		2.20	1898
19	38	49		75	1978	8	1924	28		54	1978	-2	1924	0.04		1.97	1991
20	38	49		73	1966	15	1924	27		51	1890	2	1924	0.04		1.43	1991
21	38	48		68	1966	11	1983	27		53	1894	-2	1983	0.04		1.26	1907
22	38	48		75	1896	4	1989	27		55	1893	-4	1989	0.04		2.01	1932
23	37	48		72	1982	10	1983	27		57	1965	-8	1989	0.04		1.80	1932
24	37	48		86	1955	3	1983	27		54	1893	0	1983	0.04		1.47	1914
25	37	48		73	1922	13	1983	26		49	1936	-1	1983	0.04		1.05	1987
26	37	48		68	1968	18	1892	26		56	1936	2	1892	0.04		1.15	1940
27	37	47		75	1946	15	1894	26		56	1946	3	1924	0.04		1.06	1927
28	37	47		73	1947	21	1925	26		59	1984	-1	1924	0.04		1.85	1979
29	36	47		77	1951	12	1917	26		60	1992	3	1983	0.04		0.23	1972
30	36	47		74	1951	14	1990	26		55	1965	3	1990	0.04		0.40	1899
31	36	47		80	1951	10	1927	26		55	1965	1	1968	0.04		2.55	1984
<b>MONTH</b>	<b>39.3</b>	<b>49.9</b>		<b>86</b>	<b>1955</b>	<b>3</b>	<b>1983</b>	<b>28.6</b>		<b>64</b>	<b>1948</b>	<b>-8</b>	<b>1989</b>	<b>1.40</b>		<b>2.78</b>	<b>1892</b>

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

# TULSA CLIMATE CALENDAR

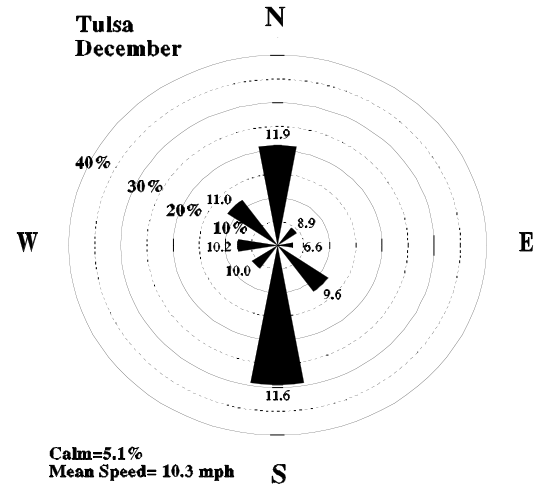
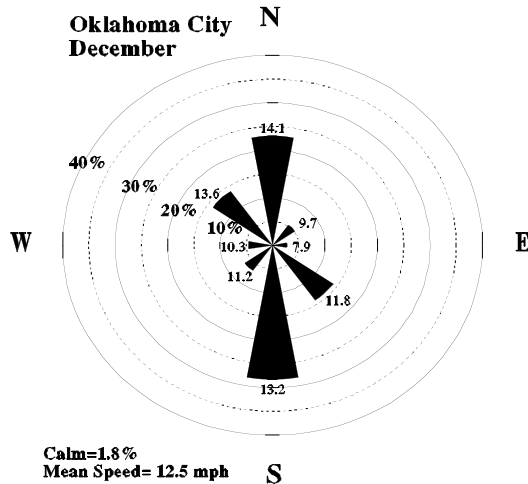
## DECEMBER

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 1888-2000.

Day	Avg. Temp.	Ave. High	2001	Record High	Year	Lowest Max	Year	Ave. Low	2001	Highest Min.	Year	Record Low	Year	Avg. Precip.	2001	Greatest Precip.	Year
1	44	53		77	1950	26	1985	34		59	1982	14	1985	0.09		1.48	1909
2	43	53		76	1995	24	1985	33		58	1951	11	1985	0.09		1.40	1913
3	43	53		77	1916	27	1919	33		60	1998	15	1929	0.09		1.12	1999
4	42	52		77	1906	27	1972	32		58	1922	20	1945	0.08		1.65	1999
5	42	52		77	1989	32	1992	32		61	1980	10	1950	0.08		1.14	1913
6	42	52		77	1966	18	1972	32		64	1980	3	1950	0.08		1.65	1935
7	41	51		80	1966	19	1909	31		55	1916	4	1950	0.08		1.48	1926
8	41	51		73	1991	19	1909	31		61	1946	-3	1917	0.08		1.01	1956
9	41	50		75	1993	22	1937	31		58	1946	0	1917	0.08		1.71	1999
10	40	50		74	1996	22	1917	30		56	1996	3	1919	0.08		1.73	1960
11	40	50		76	1929	27	1917	30		53	1929	4	1917	0.07		0.87	1946
12	40	50		73	1924	19	1932	30		51	1939	3	1962	0.07		1.82	1923
13	39	49		80	1948	19	1917	29		54	1927	4	1917	0.07		2.33	1984
14	39	49		74	1933	20	1926	29		64	1948	4	1958	0.07		3.02	1971
15	39	49		77	1948	19	1951	29		58	1929	-1	1989	0.07		0.72	1930
16	39	48		77	1908	15	1932	29		52	1929	3	1989	0.07		0.85	1961
17	38	48		78	1908	23	1964	28		61	1908	2	1932	0.07		1.00	1959
18	38	48		72	1939	23	1981	28		48	1939	4	1964	0.07		0.85	1934
19	38	48		70	1967	9	1983	28		55	1978	-1	1924	0.07		1.90	1987
20	38	47		75	1966	17	1924	28		49	1967	3	1924	0.06		1.44	1991
21	37	47		70	1979	15	1916	27		48	1941	0	1989	0.06		1.03	1997
22	37	47		71	1982	7	1989	27		55	1979	-6	1989	0.06		1.51	1966
23	37	47		73	1982	9	1983	27		60	1982	-8	1989	0.06		4.23	1932
24	37	47		80	1955	5	1983	27		54	1982	-2	1983	0.06		2.80	1965
25	36	46		73	1922	12	1983	26		51	1971	-2	1983	0.06		1.29	1987
26	36	46		69	1971	23	1983	26		57	1936	9	1914	0.06		0.97	1987
27	36	46		77	1946	27	1915	26		55	1946	8	1925	0.06		1.62	1943
28	36	46		74	1928	20	1917	26		62	1984	0	1924	0.06		0.98	1927
29	36	46		71	1984	12	1917	26		52	1992	3	1983	0.06		0.84	1971
30	36	46		77	1951	20	1946	26		58	1965	2	1983	0.05		0.36	1922
31	35	46		78	1951	18	1927	25		54	1965	0	1969	0.05		3.27	1984
<b>MONTH</b>	<b>38.9</b>	<b>48.8</b>		<b>80</b>	<b>1966</b>	<b>5</b>	<b>1983</b>	<b>28.9</b>		<b>64</b>	<b>1980</b>	<b>-8</b>	<b>1989</b>	<b>0.07</b>		<b>4.23</b>	<b>1932</b>

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

## DECEMBER WIND ROSES



**December 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.

## DECEMBER SUNRISE/SUNSET TIMES FOR 2001

ALL TIMES ARE CENTRAL STANDARD TIME

### OKLAHOMA CITY

DATE	SUNRISE	SUNSET
12/1/01	7:21 AM	5:17 PM
12/2/01	7:22 AM	5:17 PM
12/3/01	7:23 AM	5:17 PM
12/4/01	7:24 AM	5:17 PM
12/5/01	7:25 AM	5:17 PM
12/6/01	7:25 AM	5:17 PM
12/7/01	7:26 AM	5:17 PM
12/8/01	7:27 AM	5:17 PM
12/9/01	7:28 AM	5:17 PM
12/10/01	7:29 AM	5:17 PM
12/11/01	7:29 AM	5:18 PM
12/12/01	7:30 AM	5:18 PM
12/13/01	7:31 AM	5:18 PM
12/14/01	7:31 AM	5:18 PM
12/15/01	7:32 AM	5:19 PM
12/16/01	7:33 AM	5:19 PM
12/17/01	7:33 AM	5:19 PM
12/18/01	7:34 AM	5:20 PM
12/19/01	7:35 AM	5:20 PM
12/20/01	7:35 AM	5:21 PM
12/21/01	7:36 AM	5:21 PM
12/22/01	7:36 AM	5:22 PM
12/23/01	7:37 AM	5:22 PM
12/24/01	7:37 AM	5:23 PM
12/25/01	7:37 AM	5:23 PM
12/26/01	7:38 AM	5:24 PM
12/27/01	7:38 AM	5:25 PM
12/28/01	7:38 AM	5:25 PM
12/29/01	7:39 AM	5:26 PM
12/30/01	7:39 AM	5:27 PM
12/31/01	7:39 AM	5:28 PM

### TULSA

DATE	SUNRISE	SUNSET
12/1/01	7:16 AM	5:09 PM
12/2/01	7:17 AM	5:09 PM
12/3/01	7:18 AM	5:09 PM
12/4/01	7:19 AM	5:09 PM
12/5/01	7:20 AM	5:09 PM
12/6/01	7:21 AM	5:09 PM
12/7/01	7:22 AM	5:09 PM
12/8/01	7:22 AM	5:09 PM
12/9/01	7:23 AM	5:09 PM
12/10/01	7:24 AM	5:09 PM
12/11/01	7:25 AM	5:10 PM
12/12/01	7:25 AM	5:10 PM
12/13/01	7:26 AM	5:10 PM
12/14/01	7:27 AM	5:10 PM
12/15/01	7:28 AM	5:11 PM
12/16/01	7:28 AM	5:11 PM
12/17/01	7:29 AM	5:11 PM
12/18/01	7:29 AM	5:12 PM
12/19/01	7:30 AM	5:12 PM
12/20/01	7:31 AM	5:13 PM
12/21/01	7:31 AM	5:13 PM
12/22/01	7:32 AM	5:14 PM
12/23/01	7:32 AM	5:14 PM
12/24/01	7:32 AM	5:15 PM
12/25/01	7:33 AM	5:15 PM
12/26/01	7:33 AM	5:16 PM
12/27/01	7:34 AM	5:17 PM
12/28/01	7:34 AM	5:17 PM
12/29/01	7:34 AM	5:18 PM
12/30/01	7:34 AM	5:19 PM
12/31/01	7:35 AM	5:19 PM

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