

OKLAHOMA MONTHLY CLIMATE SUMMARY

JANUARY 2003

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Oklahoma Climatological Survey

MONTHLY SUMMARY FOR JANUARY 2003

January 2003

Statewide average temperature = 36.8° F

Statewide average rainfall = 0.07 inches

In terms of cold weather, Oklahoma dodged the proverbial bullet during January. While frigid temperatures and a steady procession of snowstorms paralyzed the country's northeast, Oklahoma faced only intermittent bouts with the bone-chilling cold. For the most part, the periodic intrusions of arctic air shifted quickly to the northeast, which often left the state with relatively warm temperatures and bright sunshine. Unfortunately, the tranquil weather came with a price, as the shift of the storm systems to the north limited the state's precipitation for the month. Data from the National Weather Service's Cooperative Observing Network indicated that the month was the 2nd-driest and 43rd-coolest January the state has experienced since record-keeping began in 1892.

The statewide-averaged temperature finished equal to normal at 36.8 degrees. The month began on an odd note, with light snow falling across northern Oklahoma even as temperatures across the southeast soared into the upper 60s. A mere two days later, the same areas that had snow experienced the upper 60s. That pattern set the tone for the remainder of the month, as rapidly moving weather systems traveled through the state every few days. An extended cold period did actually occur during the 21st through the 24th when an extremely cold dome of arctic air settled over the state. During this time, maximum temperatures in the northern areas of the state struggled to reach the 20s. Another preview of spring soon replaced the single-digit lows and below-zero wind chills, however, when highs once again reached into the 70s on the 28th.

January Normals

Statewide average temperature = 36.8° F

Statewide average rainfall = 1.46 inches

The high temperature for the month, 79 degrees, occurred on the 28th at Hollis (Harmon County) and on the 29th at Erick (Beckham). Tulsa (Tulsa) set a record high of 75 degrees on the 8th, which broke the old record of 71 degrees, set in 1923. The lowest temperature reported in the state was 1 degree, which occurred at Cherokee (Alfalfa) on the 24th and Tulsa on the 26th.

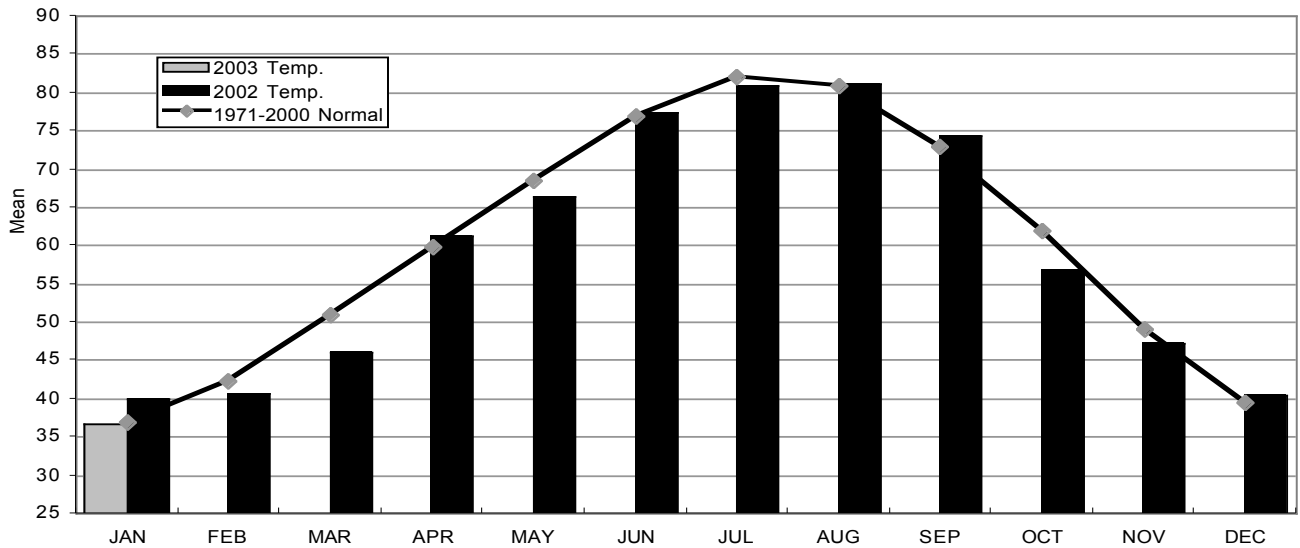
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With minimal snowfall and a scant few days with significant rainfall, the statewide-averaged precipitation was a paltry 0.07 inches, 1.39 inches below normal. Only January 1986 was drier with 0.04 inches of precipitation. All regions of the state received less than 0.16 inches of precipitation on average. Southeastern Oklahoma had the most at 0.15 inches, while south central regions saw the least with 0.02 inches. Vici (Dewey), Fargo (Ellis), Frederick (Tillman), and Idabel (McCurtain) were the only locales in the state that reported precipitation totaling at least 0.40 inches – Vici led the pack with 0.45 inches. Of the 196 cooperative observing stations reporting during January, 96 received a trace or less of precipitation, and 57 received none at all.

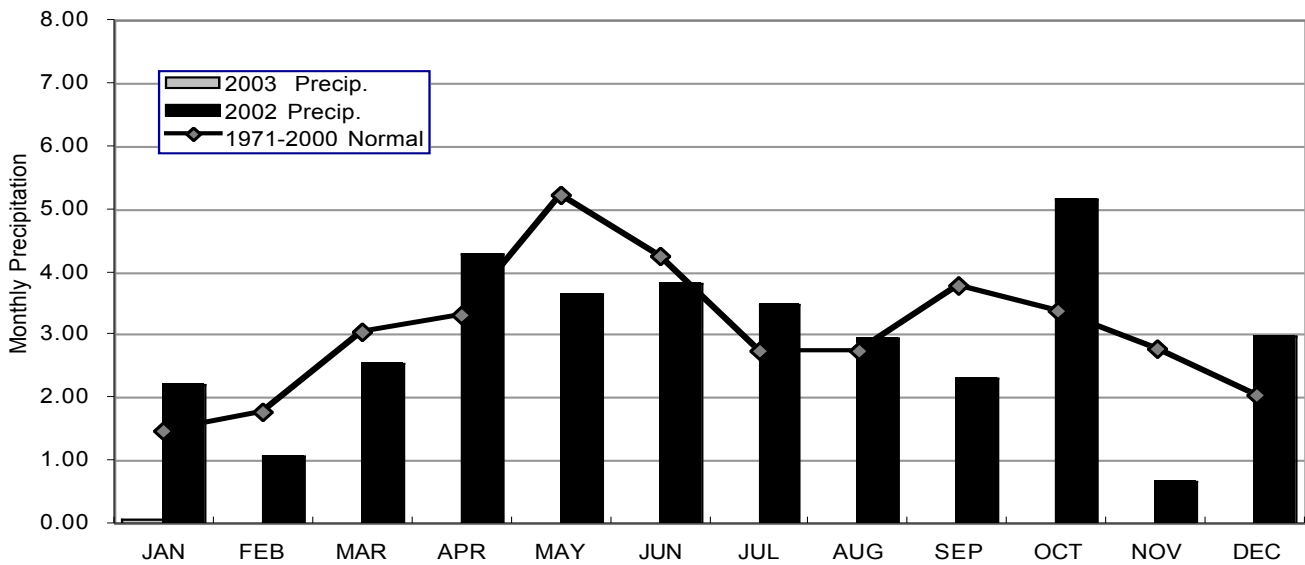
The month's snowfall totals were due in large part to a single storm system on the 1st of the month. Snowfall totals across the state were generally less than an inch. Woodward and Ft. Supply (Woodward County) did exceed that amount, however, with 3.8 and 2.0 inches, respectively.

Gary D. McManus

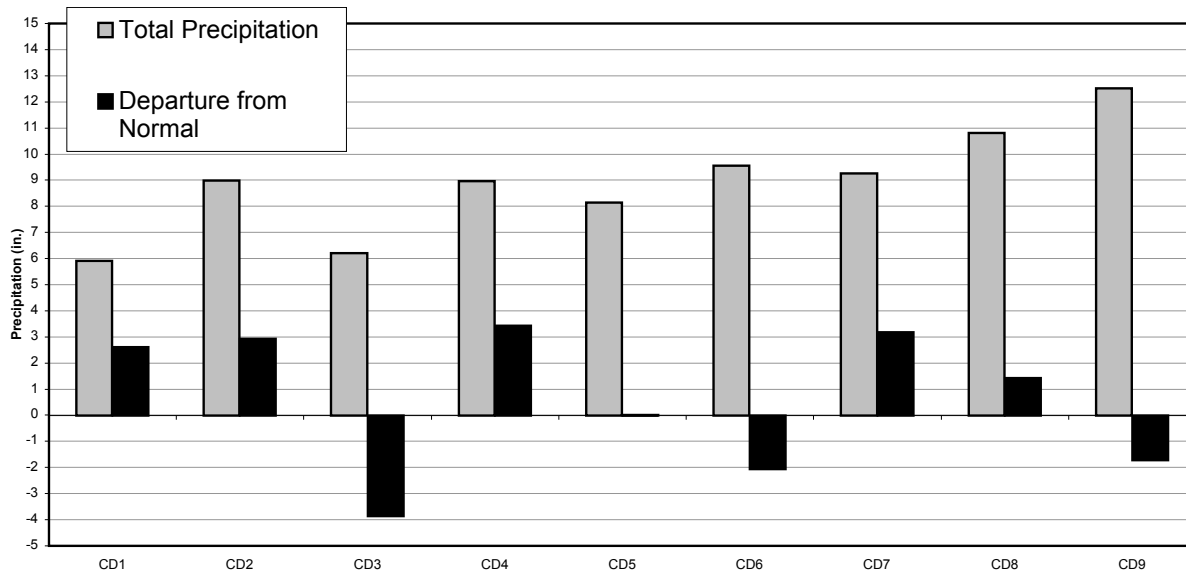
2002 AND 2003 STATEWIDE TEMPERATURES - MONTHLY AVERAGES



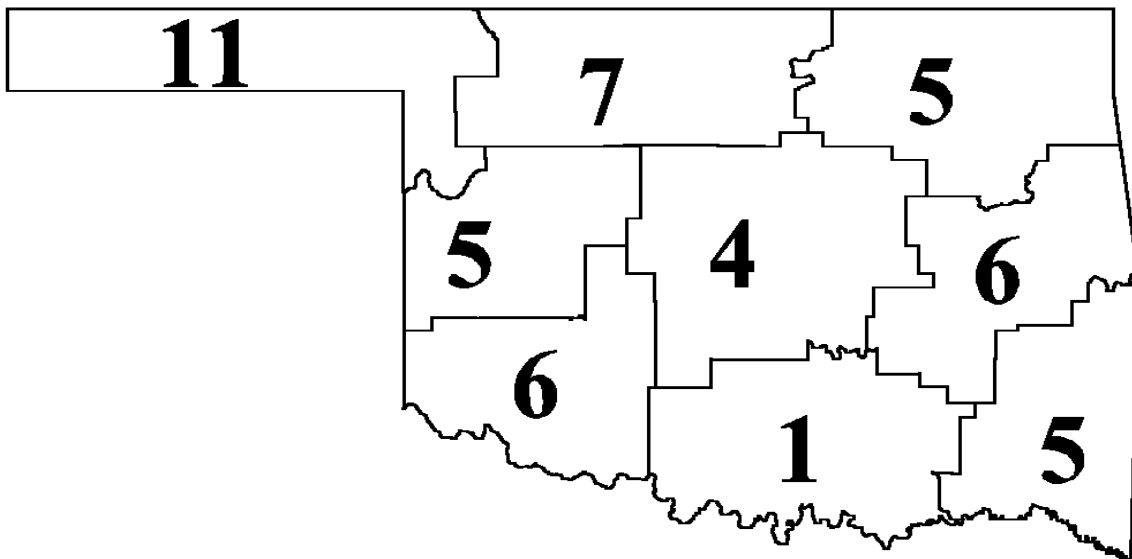
2002 AND 2003 STATEWIDE PRECIPITATION - MONTHLY TOTALS



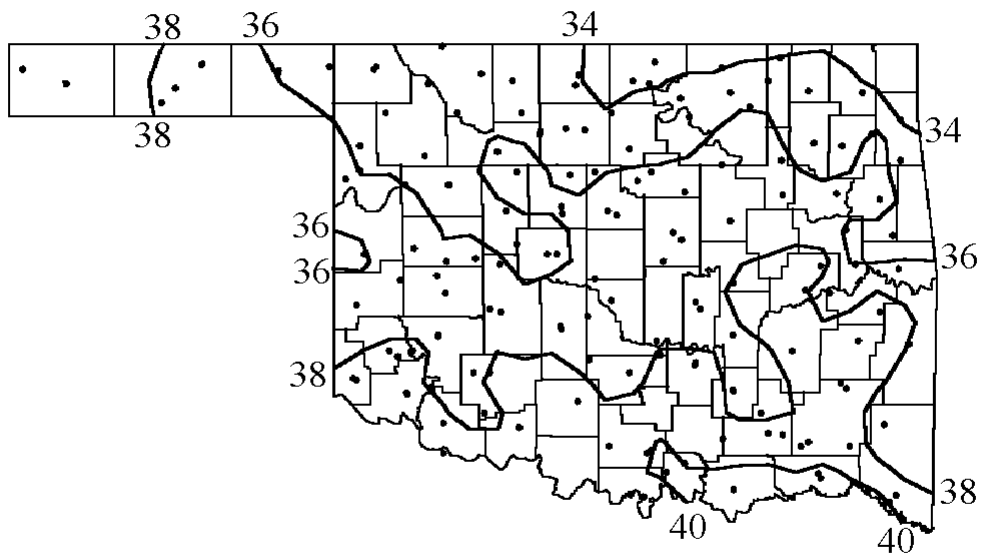
CLIMATE DIVISION AVERAGED PRECIPITATION - OCTOBER 2002 THROUGH JANUARY 2003



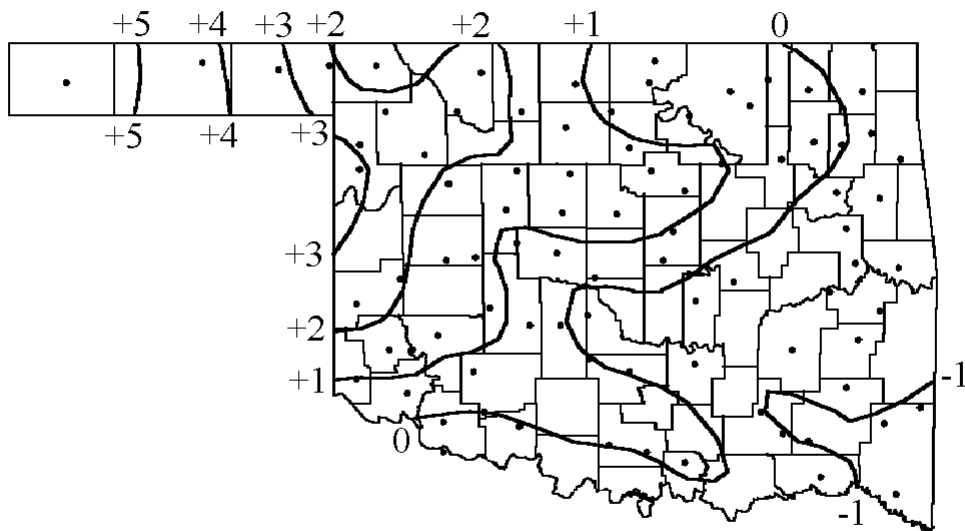
CLIMATE DIVISION PERCENT OF NORMAL PRECIPITATION - JANUARY 2003



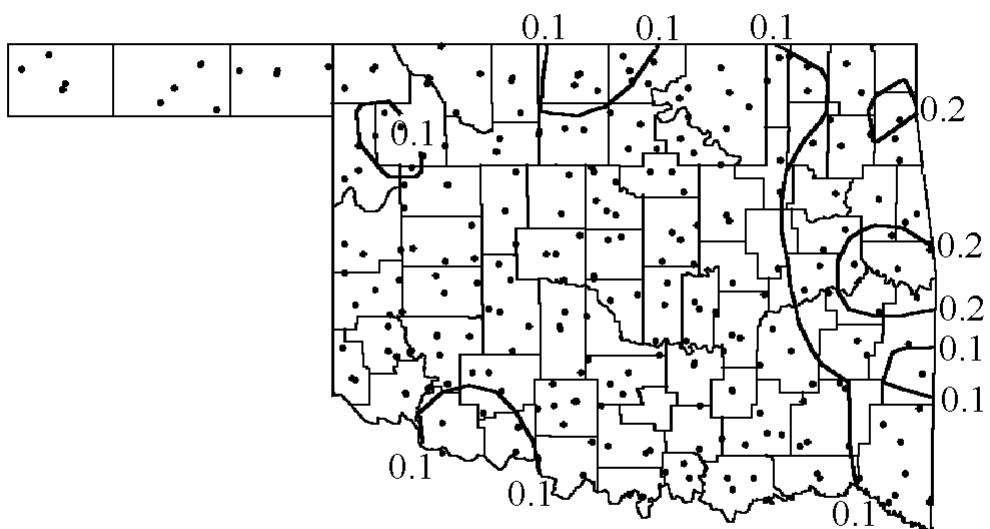
JANUARY 2003 AVERAGE MONTHLY TEMPERATURE (°F)



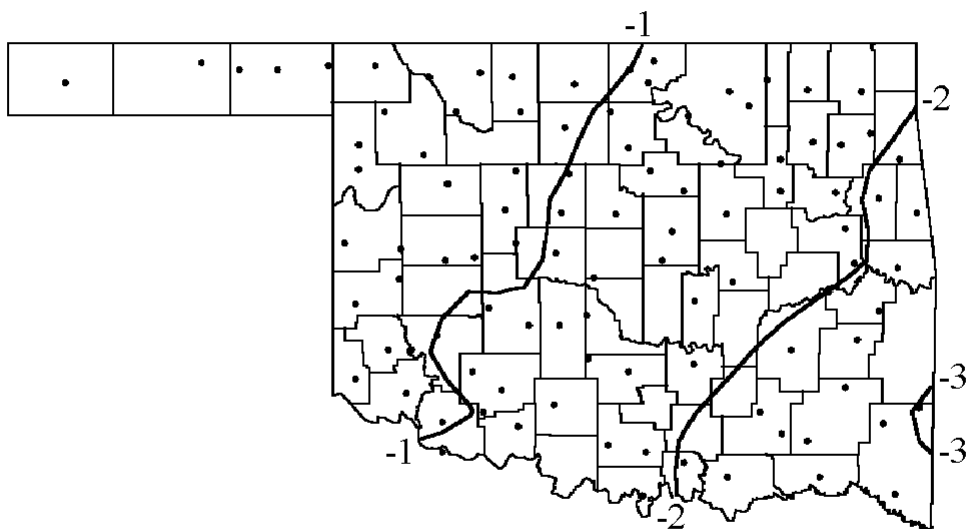
JANUARY 2003 DEPARTURE FROM NORMAL TEMPERATURE (°F)



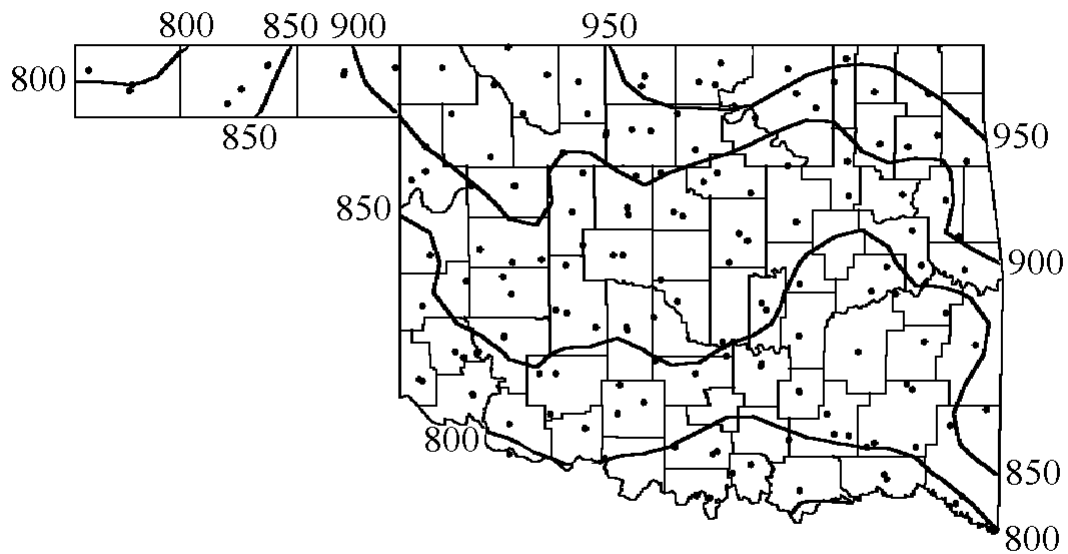
JANUARY 2003 PRECIPITATION (INCHES)



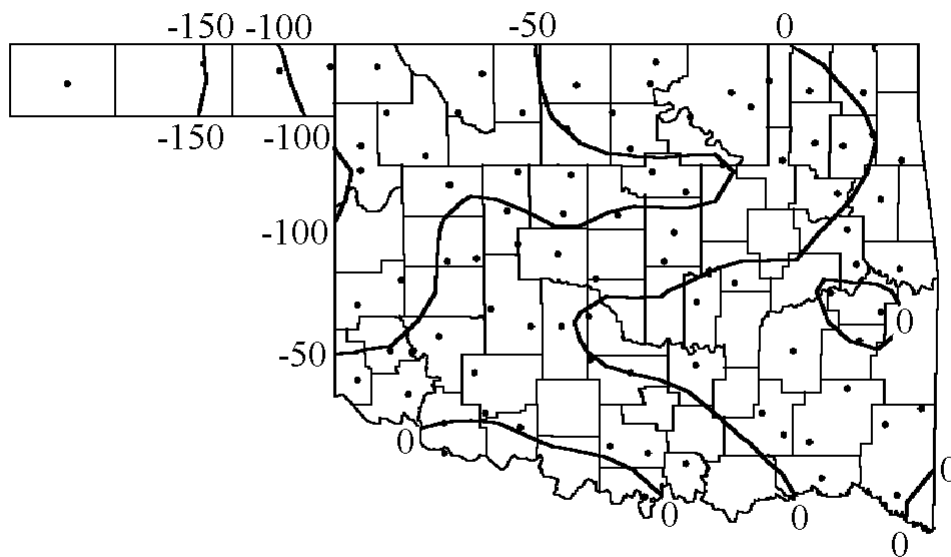
JANUARY 2003 DEPARTURE FROM NORMAL PRECIPITATION (INCHES)



JANUARY 2003 ACCUMULATED HEATING DEGREE DAYS (°F)



JANUARY 2003 DEPARTURE FROM NORMAL HEATING DEGREE DAYS (°F)



JANUARY 2003 SUMMARY FOR PANHANDLE CLIMATE DIVISION (CD1)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV FROM NORM	MAX TEMP	MIN TEMP	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	35.8	31	3.4	76	21	9	24	906	-106	0	0	0.03	31	-0.60	0.02	1
BEAVER	593	1	35.1	31	3.3	74	9	5	16	927	-105	0	0	0.00	31	-0.53	0.00	2
BOISE CITY	908	1	40.3	31	5.9	74	8	13	23	767	-183	0	0	0.00	31	-0.39	0.00	1
BUFFALO	1243	1	35.5	31	0.5	74	9	9	24	915	-15	0	0	0.05	31	-0.49	0.05	2
FARGO	3070	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.40	31	*****	0.40	2
GAGE	3407	1	35.8	31	2.9	75	8	9	16	906	-91	0	0	0.01	31	-0.49	0.00	17
GATE	3489	1	35.7	31	2.1	76	9	10	24	908	-67	0	0	0.02	31	-0.69	0.02	2
HUYMON	3835	1	36.8	30	*****	75	9	13	23	846	*****	0	*****	0.00	31	*****	0.00	31
HOOKER	4298	1	38.1	30	4.3	72	27	13	23	808	-160	0	0	0.05	31	-0.44	0.05	1
LAVERNE	5045	1	38.7	27	*****	78	9	11	23	710	*****	0	*****	0.07	31	*****	0.06	2
RANGE	7412	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.11	31	*****	0.11	2
REGNIER	7534	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.00	31	*****	0.00	1
TURPIN	9017	1	37.5	23	*****	72	9	13	24	632	*****	0	*****	0.00	31	-0.45	0.00	31

JANUARY 2003 SUMMARY FOR NORTH CENTRAL CLIMATE DIVISION (CD2)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV FROM NORM	MAX TEMP	MIN TEMP	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	34.7	31	2.8	75	9	8	24	940	-86	0	0	0.00	31	-0.81	0.00	16
BILLINGS	755	2	33.9	31	0.7	69	21	7	24	963	-23	0	0	0.12	31	-1.06	0.11	16
BLACKWELL 2E	818	2	33.8	29	*****	70	9	5	24	904	*****	0	*****	0.07	31	-0.89	0.07	2
BRAMAN	1075	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.30	31	*****	0.21	16
CEDARDALE	1620	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.00	31	*****	0.00	16
CHEROKEE	1724	2	33.2	29	*****	74	9	1	24	922	*****	0	*****	0.00	31	-0.97	0.00	10
ENID	2912	2	34.6	31	1.5	71	9	7	24	941	-50	0	0	0.09	31	-1.05	0.09	16
FREEDOM	3358	2	35.9	29	*****	77	8	8	21	844	*****	0	*****	0.00	31	-0.75	0.00	1
FT SUPPLY	3304	2	34.4	30	2.8	76	9	6	17	918	-117	0	0	0.20	31	-0.41	0.20	2
GREAT SALT P	3740	2	34.4	27	*****	73	9	8	24	826	*****	0	*****	0.00	30	*****	0.00	30
LAHOMA	4950	2	35.5	31	*****	74	9	8	23	914	*****	0	*****	0.04	31	*****	0.04	16
HELENA	4019	2	34.6	31	1.7	73	9	8	24	942	-57	0	0	0.20	31	-0.76	0.10	16
JEFFERSON	4573	2	33.5	31	0.9	72	9	6	24	978	-29	0	0	0.12	31	-0.90	0.12	16
LAMONT	5013	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.05	31	*****	0.05	2
MEDFORD	5768	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.18	31	*****	0.16	16
MORRISON	6065	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.00	31	*****	0.00	31
MUTUAL	6139	2	35.4	31	2.5	75	9	8	24	919	-77	0	0	0.02	31	-0.74	0.01	16
NEWKIRK	6278	2	32.0	31	0.8	68	9	3	24	1023	-26	0	0	0.00	31	-1.02	0.00	2
ORIENTA	6751	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.02	31	*****	0.02	16
PERRY	7012	2	35.3	30	1.1	71	9	7	24	890	-68	0	0	0.09	31	-1.03	0.09	16
PONCA CITY	7201	2	34.0	31	0.2	69	8	5	23	960	-9	0	0	0.00	31	-1.18	0.00	30
RED ROCK	7505	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.01	31	*****	0.01	15
WAYNOKA	9404	2	35.4	31	2.4	78	8	8	22	918	-74	0	0	0.00	31	-0.74	0.00	15
WOODWARD	9760	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.09	31	*****	0.09	1

JANUARY 2003 SUMMARY FOR NORTHEAST CLIMATE DIVISION (CD3)

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		DAY
					FROM NORM	MAX TEMP										FROM NORM	MAX 24-HR	
BARNSDALL	535	3	35.9	31	1.3	73	8	5	23	903	-40	0	0	0.00	31	-1.50	0.00	31
BARTLESVILLE	548	3	35.2	31	-0.2	74	8	4	23	923	4	0	0	0.00	31	-1.44	0.00	2
BIXBY	782	3	35.7	29	*****	74	8	8	24	849	*****	0	*****	0.00	31	-1.46	0.00	31
BURBANK	1256	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.00	31	*****	0.00	16
CHELSEA	1717	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.00	31	*****	0.00	31
CLAREMORE	1828	3	34.3	31	0.6	73	9	8	24	951	-20	0	0	0.13	31	-1.62	0.08	16
HOLLOW	4258	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.08	31	*****	0.08	16
HOMINY	4289	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.00	31	*****	0.00	16
KANSAS	4672	3	35.4	31	-1.1	68	8	5	23	918	33	0	0	0.07	31	-2.29	0.04	15
LENAPAH	5118	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.16	31	*****	0.16	16
MANNFORD	5522	3	37.8	30	1.4	75	8	7	23	815	-75	0	0	0.00	31	-1.53	0.00	31
MARAMEC	5540	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.00	31	*****	0.00	31
NOWATA	6485	3	36.1	31	0.6	73	8	5	23	895	-22	0	0	0.00	31	-1.75	0.00	31
PAWHUSKA	6935	3	35.8	31	1.0	73	8	4	23	905	-33	0	0	0.00	31	-1.45	0.00	16
PAWNEE	6940	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.04	31	*****	0.04	15
PRYOR	7309	3	34.3	31	0.3	68	9	7	24	952	-10	0	0	0.22	31	-1.75	0.17	16
RALSTON	7390	3	33.7	31	0.0	73	8	5	23	971	-2	0	0	0.00	31	-1.29	0.00	31
SPAVINAW	8380	3	37.3	30	-0.1	67	21	6	23	831	-27	0	0	0.36	31	-1.61	0.12	17
TULSA	8992	3	36.6	31	0.2	75	8	1	26	881	-18	0	0	0.14	31	-1.46	0.10	1
UPPER SPAV	9101	3	34.5	28	*****	68	8	8	23	853	*****	0	*****	0.15	31	*****	0.11	16
VINITA	9203	3	34.1	31	-0.6	65	20	4	23	957	16	0	0	0.20	31	-1.68	0.11	2
WAGONER	9247	3	36.9	30	-0.5	70	9	8	23	844	-13	0	0	0.15	31	-1.80	0.15	16
WANN	9298	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.13	31	*****	0.13	16

JANUARY 2003 SUMMARY FOR WEST CENTRAL CLIMATE DIVISION (CD4)

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		DAY
					FROM NORM	MAX TEMP										FROM NORM	MAX 24-HR	
CLINTON	1909	4	35.9	31	0.7	78	29	10	24	902	-23	0	0	0.01	31	-1.04	0.01	16
COLONY	2039	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.00	31	*****	0.00	31
CORDELL	2125	4	36.0	31	*****	73	29	11	24	899	*****	0	*****	0.00	31	*****	0.00	16
ELK CITY	2849	4	37.0	31	2.5	78	29	9	24	868	-81	0	0	0.02	31	-0.83	0.02	16
ERICK	2944	4	37.5	31	2.6	79	29	10	24	852	-82	0	0	0.00	31	-0.65	0.00	16
GEARY	3497	4	35.5	30	-0.5	68	28	9	23	884	-14	0	0	0.25	31	-0.56	0.25	11
HAMMON	3871	4	34.2	29	*****	73	9	9	24	894	*****	0	*****	0.00	31	-0.84	0.00	31
LEEDEY	5090	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.00	31	*****	0.00	31
MORAVIA	6035	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.00	31	*****	0.00	31
OKEENE	6629	4	38.3	31	2.4	73	8	9	23	828	-75	0	0	0.00	31	-0.91	0.00	31
RETROP	7565	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.00	31	*****	0.00	31
REYDON	7579	4	36.7	26	*****	77	21	10	24	736	*****	0	*****	0.00	31	-0.64	0.00	31
SAYRE	7952	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.00	31	*****	0.00	31
SWEETWATER	8652	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.00	31	*****	0.00	31
TALOGA	8708	4	34.7	31	1.3	75	21	9	24	940	-43	0	0	0.01	31	-0.80	0.01	16
THOMAS	8815	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.00	31	*****	0.00	31
VICI	9172	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.40	31	*****	0.32	2
WATONGA	9364	4	35.4	31	1.3	71	28	9	23	918	-43	0	0	0.06	31	-1.05	0.06	16
WEATHERFORD	9422	4	36.9	31	1.8	71	29	10	23	872	-56	0	0	0.02	31	-0.96	0.02	12

JANUARY 2003 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	****	****	****	****	0.26	31	****	0.26	15
ARCADIA	288	5	****	0	****	****	0	****	0	****	****	****	****	0.00	31	****	0.00	28
BLANCHARD	830	5	37.3	31	-1.7	73	29	10	25	858	49	0	0	0.08	31	-1.17	0.05	15
BRISTOW	1144	5	39.4	29	****	74	8	9	24	743	****	0	****	0.00	31	-1.39	0.00	31
CHANDLER	1684	5	36.3	31	0.6	73	29	8	25	891	-19	0	0	0.00	31	-1.37	0.00	16
CHICKASHA EX	1750	5	39.5	31	0.9	73	28	10	24	792	-29	0	0	0.05	31	-1.22	0.05	16
COX CITY	2196	5	****	0	****	****	0	****	0	****	****	****	****	0.00	31	****	0.00	31
CRESCENT	2242	5	****	0	****	****	0	****	0	****	****	****	****	0.08	31	****	0.08	16
CUSHING	2318	5	37.0	30	1.8	74	9	8	24	839	-86	0	0	0.00	31	-1.24	0.00	2
EDMOND	2788	5	****	0	****	****	0	****	0	****	****	****	****	0.04	31	****	0.03	15
EL RENO	2818	5	35.3	30	0.6	71	29	10	24	890	-53	0	0	0.00	31	-1.12	0.00	31
GUTHRIE	3821	5	36.1	31	1.5	72	29	8	24	897	-47	0	0	0.09	31	-1.24	0.09	16
HENNESSEY	4055	5	34.9	31	1.7	68	29	7	11	935	-53	0	0	0.01	31	-0.94	0.01	2
INGALLS	4489	5	****	0	****	****	0	****	0	****	****	****	****	0.10	31	****	0.10	16
KINGFISHER	4861	5	36.1	31	2.2	71	9	10	24	895	-71	0	0	0.00	31	-1.10	0.00	31
KONAWA	4915	5	****	0	****	****	0	****	0	****	****	****	****	0.00	31	****	0.00	31
MARSHALL	5589	5	****	0	****	****	0	****	0	****	****	****	****	0.00	31	****	0.00	31
MEEKER	5779	5	35.6	31	1.2	73	29	8	24	911	-40	0	0	0.06	31	-1.13	0.06	16
MULHALL	6110	5	****	0	****	****	0	****	0	****	****	****	****	0.11	31	****	0.11	16
NORMAN NWS	6386	5	37.2	31	****	72	28	10	23	862	****	0	****	0.05	31	****	0.05	15
OKEMAH	6638	5	38.7	31	-0.8	71	8	10	24	817	24	0	-1	0.14	31	-1.57	0.10	16
OKLAHOMA CTY	6659	5	****	0	****	****	0	****	0	****	****	****	****	0.02	31	****	0.02	15
OKLAHOMA CTY	6661	5	36.8	31	0.1	71	28	9	24	875	-9	0	0	0.01	31	-1.27	0.00	30
PRAGUE	7264	5	****	0	****	****	0	****	0	****	****	****	****	0.06	31	****	0.06	16
PIEDMONT	7068	5	****	0	****	****	0	****	0	****	****	****	****	0.05	31	****	0.05	28
SEMINOLE	8042	5	36.5	31	-0.8	71	21	10	24	885	26	0	0	0.00	31	-1.67	0.00	31
SHAWNEE	8110	5	****	0	****	****	0	****	0	****	****	****	****	0.12	31	****	0.12	16
STELLA	8479	5	****	0	****	****	0	****	0	****	****	****	****	0.00	31	****	0.00	31
STILLWATER	8501	5	36.2	31	1.7	72	9	8	23	892	-53	0	0	0.08	31	-1.22	0.08	16
STROUD	8563	5	****	0	****	****	0	****	0	****	****	****	****	0.00	31	****	0.00	31
TECUMSEH	8751	5	****	0	****	****	0	****	0	****	****	****	****	0.00	31	****	0.00	31
UNION CITY	9086	5	****	0	****	****	0	****	0	****	****	****	****	0.06	31	****	0.06	16
WANETTE	9291	5	36.1	30	****	73	29	10	24	868	****	0	****	0.00	31	****	0.00	31
WEWOKA	9575	5	****	0	****	****	0	****	0	****	****	****	****	0.07	31	****	0.07	16

JANUARY 2003 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	****	****	****	****	0.00	31	****	0.00	31
CALVIN	1391	6	****	0	****	****	0	****	0	****	****	****	****	0.00	31	****	0.00	31
CHECOTAH	1711	6	39.1	30	****	71	8	10	23	777	****	0	****	0.13	31	****	0.08	2
CLAYTON	1858	6	****	0	****	****	0	****	0	****	****	****	****	0.12	31	****	0.12	16
DEWAR	2485	6	****	0	****	****	0	****	0	****	****	****	****	0.03	31	****	0.03	2
DUSTIN	2690	6	****	0	****	****	0	****	0	****	****	****	****	0.00	31	****	0.00	31
LAKE EUFAULA	4975	6	36.5	31	0.5	69	21	9	24	883	-15	0	0	0.20	31	-1.97	0.20	2
LYONS	5437	6	****	0	****	****	0	****	0	****	****	****	****	0.29	31	****	0.17	2
MCALESTER	5664	6	38.3	31	-0.6	70	20	12	24	827	18	0	0	0.07	31	-2.21	0.03	16
MCCURTAIN	5693	6	40.1	30	0.1	72	8	11	24	746	-31	0	-1	0.20	31	-2.45	0.20	2
MUSKOGEE	6130	6	35.6	31	-0.5	70	8	10	23	913	17	0	0	0.18	31	-1.76	0.11	1
OKTAHA	6678	6	****	0	****	****	0	****	0	****	****	****	****	0.11	31	****	0.11	2
SALLISAW	7862	6	36.3	31	-0.4	69	9	12	24	890	11	0	0	0.30	31	-1.95	0.27	2
SCIPIO	7979	6	****	0	****	****	0	****	0	****	****	****	****	0.00	31	****	0.00	31
SHORT	8170	6	****	0	****	****	0	****	0	****	****	****	****	0.21	31	****	0.12	17
STILWELL	8506	6	38.3	27	****	59	31	16	17	722	****	0	****	0.04	31	-2.41	0.04	14
TAHLEQUAH	8677	6	36.7	31	-0.1	69	8	7	23	878	3	0	0	0.10	31	-2.28	0.05	17
WEBBERS FALL	9445	6	35.6	31	-0.6	70	9	9	24	913	19	0	0	0.33	31	-1.91	0.21	2

JANUARY 2003 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		DAY	
					FROM NORM	MAX TEMP									FROM NORM	MAX 24-HR		
ALTUS	179	7	38.3	31	1.0	76	20	14	23	827	-32	0	0	0.00	31	-0.96	0.00	31
ALTUS DAM	184	7	38.7	31	1.6	77	29	14	24	815	-50	0	0	0.00	31	-1.02	0.00	31
ANADARKO	224	7	34.8	31	-0.1	70	29	9	24	936	2	0	0	0.00	31	-1.09	0.00	16
APACHE	260	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.00	31	*****	0.00	12
CARNEGIE	1504	7	37.4	31	2.5	70	28	10	22	856	-79	0	0	0.00	31	-1.09	0.00	31
CHATTANOOGA	1706	7	37.0	31	-0.2	73	29	13	25	867	4	0	0	0.34	31	-0.72	0.28	12
DUNCAN 11 W	2668	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.00	31	*****	0.00	11
FREDERICK	3353	7	38.5	31	0.1	72	29	13	24	822	-5	0	0	0.42	31	-0.71	0.42	13
HEADRICK	3998	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.00	31	*****	0.00	31
HOBART	4204	7	37.2	31	0.3	73	28	12	23	862	-11	0	0	0.01	31	-0.93	0.00	30
HOLLIS	4249	7	38.7	31	0.6	79	28	12	24	817	-19	0	0	0.00	31	-0.63	0.00	15
LAWTON	5063	7	38.3	29	*****	73	29	13	23	774	*****	0	*****	0.07	31	-1.08	0.07	12
LOOKEBA	5329	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.07	31	*****	0.04	16
MANGUM	5509	7	38.3	31	1.8	78	29	13	24	829	-57	0	0	0.00	31	-0.90	0.00	31
RANDLETT	7403	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.23	31	*****	0.13	13
ROOSEVELT	7727	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.00	31	*****	0.00	31
SEDAN	8016	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.00	31	*****	0.00	13
SNYDER	8299	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.00	31	*****	0.00	31
VINSON	9212	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.00	31	*****	0.00	12
WALTERS	9278	7	38.3	31	0.2	74	29	13	25	827	-9	0	0	0.05	31	-1.40	0.05	13
WICHITA MT	9629	7	36.8	31	1.0	71	29	3	25	874	-32	0	0	0.06	31	-1.32	0.04	12
WILLOW	9668	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.00	31	*****	0.00	28

JANUARY 2003 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		DAY	
					FROM NORM	MAX TEMP									FROM NORM	MAX 24-HR		
ADA	17	8	38.4	31	-0.4	71	20	11	24	825	10	0	0	0.00	31	-1.85	0.00	31
ALLEN	147	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.00	31	*****	0.00	31
ARDMORE	292	8	40.3	31	0.3	75	20	14	23	765	-13	0	0	0.00	31	-1.84	0.00	12
ATOKA DAM	394	8	37.2	31	-1.6	73	21	11	25	863	49	0	0	0.00	31	-2.15	0.00	17
BOKCHITO	917	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.25	31	*****	0.25	13
CANEY	1437	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.00	31	*****	0.00	31
CENTRAHOMA	1648	8	37.3	31	*****	71	21	11	25	858	*****	0	*****	0.00	31	*****	0.00	31
COLEMAN	2011	8	38.6	30	*****	71	20	10	23	793	*****	0	*****	0.00	31	*****	0.00	31
COMANCHE	2054	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.00	31	*****	0.00	31
DAISY	2354	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.01	31	*****	0.00	28
DURANT	2678	8	39.8	22	*****	75	20	12	23	556	*****	0	*****	0.00	31	-2.23	0.00	28
DUNCAN	2660	8	38.6	27	*****	73	29	13	25	713	*****	0	*****	0.01	31	-1.39	0.01	13
ELMORE CITY	2872	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.00	31	*****	0.00	31
GRADY	3688	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.00	31	*****	0.00	31
HEALDTON	4001	8	39.0	31	0.4	77	21	12	25	807	-11	0	0	0.00	31	-1.69	0.00	13
HENNEPIN	4052	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.00	31	*****	0.00	31
KETCHUM RAN	4780	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.00	31	*****	0.00	31
KINGSTON	4865	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.11	31	*****	0.11	16
LINDSAY	5216	8	36.8	31	0.2	73	28	12	24	876	-8	0	0	0.08	31	-1.46	0.08	16
LOCO	5247	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.00	31	*****	0.00	31
MADILL	5468	8	40.0	30	1.2	72	21	13	24	751	-61	0	0	0.00	31	-2.14	0.00	13
MARIETTA	5563	8	37.9	30	-2.0	75	21	12	25	814	34	0	0	0.00	31	-1.73	0.00	31
MARLOW	5581	8	41.2	31	*****	74	28	12	23	738	*****	0	*****	0.01	31	*****	0.01	13
MC GEE CREEK	5713	8	38.5	30	-0.5	71	21	13	24	795	-12	0	0	0.06	31	-2.46	0.04	16
PAULS VALLEY	6926	8	37.0	31	-0.1	76	29	10	25	868	2	0	0	0.02	31	-1.65	0.02	16
PONTOTOC	7214	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.08	31	*****	0.08	15
TISHOMINGO	8884	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.00	31	*****	0.00	31
TUSSY	9032	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.00	31	*****	0.00	14
WAURIKA	9395	8	39.8	30	-2.1	78	20	13	24	755	39	0	0	0.00	31	-1.26	0.00	28

JANUARY 2003 SUMMARY FOR SOUTHEAST CLIMATE DIVISION (CD9)

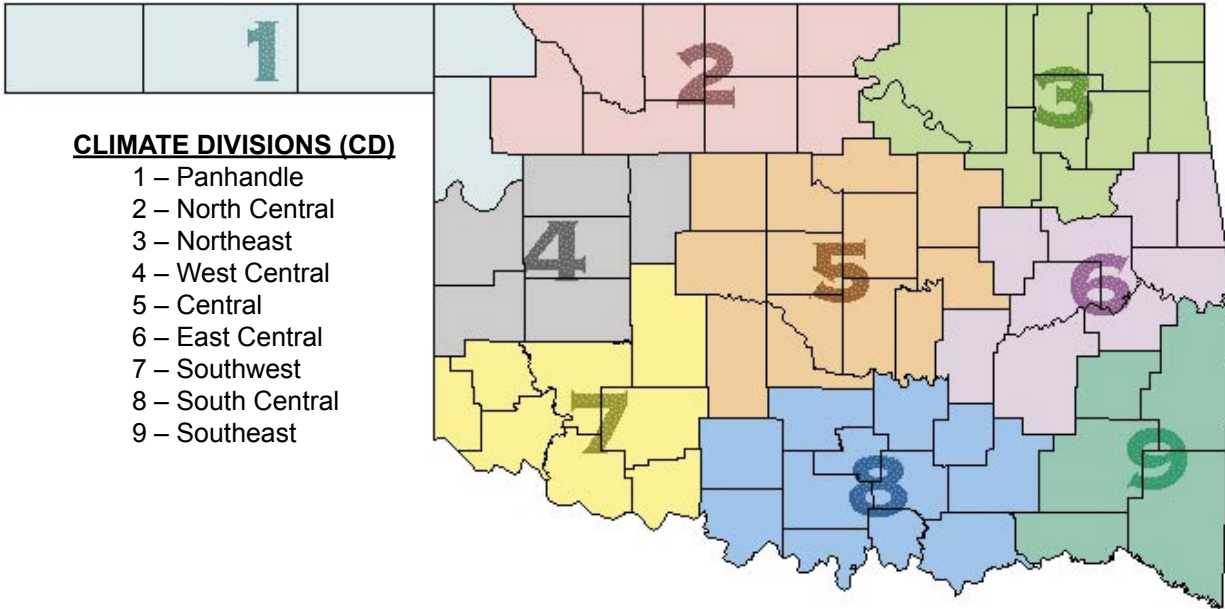
NAME	ID	CD	MEAN TEMP	NUM OBS	DEV		MIN TEMP	DAY	HEAT DEG	DEV FROM NORM	COOL DEG	DEV FROM NORM	TOT PPT	NUM OBS	DEV		DAY	
					FROM NORM	MAX TEMP									FROM NORM	MAX 24-HR		
ANTLERS	256	9	37.8	31	-2.4	71	21	13	24	842	74	0	0	0.00	31	-2.15	0.00	16
BATTIEST	567	9	35.7	30	-1.3	69	20	9	24	878	8	0	0	0.28	31	-2.96	0.15	15
BENGAL	670	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.12	31	*****	0.07	2
BROKEN BOW	1162	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.18	31	*****	0.10	16
CARTER TWR	1544	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.20	31	*****	0.20	21
HUGO	4384	9	40.4	31	0.3	73	21	15	24	764	-9	0	0	0.01	31	-2.57	0.00	31
PAGE	6842	9	36.0	28	*****	71	9	8	24	812	*****	0	*****	0.00	31	*****	0.00	31
IDABEL	4451	9	38.8	31	-1.9	71	21	17	25	812	59	0	0	0.45	31	-2.71	0.45	21
SMITHVILLE	8285	9	35.9	31	-1.2	68	21	9	24	902	36	0	0	0.11	31	-3.19	0.08	16
SPIRO	8416	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.39	31	*****	0.27	2
TUSKAHOMA	9023	9	40.6	31	-0.1	70	20	10	24	756	1	0	0	0.07	31	-2.45	0.05	16
VALLIANT	9118	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.12	31	*****	0.06	16
WILBURTON	9634	9	39.1	31	-0.2	71	8	9	24	802	6	0	0	0.20	31	-2.56	0.20	16
WISTER	9724	9	37.9	31	*****	69	21	11	24	839	*****	0	*****	0.00	31	*****	0.00	31

JANUARY 2003 CLIMATE DIVISION SUMMARY

NAME	CD	MEAN TEMP	NUM OBS	DEV		MIN TEMP	DAY	HEAT DEG	DEV FROM NORM	COOL DEG	DEV FROM NORM	TOT PPT	NUM OBS	DEV		DAY	
				FROM NORM	MAX TEMP									FROM NORM	MAX 24-HR		
PANHANDLE	1	36.6	8	3.6	78	9	5	16	873	-118	0	0	0.06	13	-0.47	0.40	2
NORTH CENTRAL	2	34.5	12	1.9	78	8	1	24	942	-64	0	0	0.07	23	-0.87	0.21	16
NORTHEAST	3	35.7	13	0.3	75	8	1	26	903	-17	0	0	0.08	23	-1.63	0.17	16
WEST CENTRAL	4	36.4	9	1.6	79	29	9	23	884	-54	0	0	0.04	19	-0.82	0.32	2
CENTRAL	5	36.6	15	0.6	74	9	7	11	874	-26	0	0	0.05	34	-1.25	0.26	15
EAST CENTRAL	6	37.3	8	0.2	72	8	7	23	853	-12	0	0	0.13	18	-2.17	0.27	2
SOUTHWEST	7	37.6	11	0.7	79	28	3	25	848	-22	0	0	0.06	22	-1.01	0.42	13
SOUTH CENTRAL	8	38.6	13	-0.3	78	20	10	25	808	-2	0	0	0.02	29	-1.81	0.25	13
SOUTHEAST	9	38.3	8	-1.0	73	21	8	24	824	27	0	0	0.15	14	-2.66	0.45	21

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

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

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

Cooling Degree Days Calculation

NumDays

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

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

MESONET MONTHLY SUMMARY FOR JANUARY 2003

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
PANHANDLE																					
Arnett	37.3	76	8	11	23	860	0	.00	.00	1	Goodwell	38.0	74	8	13	22	836	0	.03	.03	2
Beaver	36.0	76	8	12	22	899	0	.00	.00	1	Hooker	37.3	75	8	14	23	857	0	.01	.01	2
Boise City	37.7	74	8	14	23	845	0	.00	.00	1	Kenton	39.5	73	8	14	22	791	0	.03	.03	1
Buffalo	36.1	77	8	13	24	****	****	.07	.07	2	Slapout	36.7	76	8	12	23	877	0	.03	.03	2
NORTH CENTRAL																					
Blackwell	33.8	69	8	5	23	967	0	.12	.09	15	Medford	34.6	70	8	7	23	941	0	.14	.14	15
Breckenridge	35.3	69	8	8	23	920	0	.14	.14	15	Newkirk	33.5	69	8	3	23	976	0	.13	.08	15
Cherokee	35.3	74	8	9	23	922	0	.11	.11	15	Red Rock	35.1	73	8	7	23	928	0	.07	.06	15
Fairview	36.6	74	8	10	23	880	0	.02	.02	15	Seiling	36.3	74	20	8	23	889	0	.01	.01	15
Freedom	35.5	75	8	7	23	915	0	.01	.01	15	Woodward	37.5	76	8	8	23	853	0	.09	.09	2
Lahoma	34.9	72	8	9	23	932	0	.06	.06	15	Alva	35.1	77	8	8	23	927	0	.00	.00	1
May Ranch	35.5	73	8	6	23	916	0	.00	.00	1											
NORTHEAST																					
Bixby	36.4	73	8	9	23	885	0	.15	.06	2	Pryor	34.2	67	8	7	23	955	0	.19	.08	16
Burbank	35.7	72	8	13	22	****	****	.12	.08	15	Skiatook	35.2	72	8	5	23	****	****	.05	.04	16
Copan	33.7	72	8	3	23	970	0	.12	.12	16	Vinita	32.1	69	8	4	23	1021	0	.09	.04	16
Foraker	33.5	72	8	3	23	976	0	.02	.01	15	Wynona	34.4	73	8	5	23	947	0	.03	.03	15
Jay	33.4	70	8	5	23	978	0	.29	.10	3	Porter	37.1	72	8	9	23	866	0	.14	.07	1
Miami	32.0	67	8	4	23	1023	0	.17	.11	18	Inola	35.2	71	8	8	23	925	0	.13	.06	16
Nowata	33.1	73	8	5	23	990	0	.15	.15	16	Claremore	36.2	74	8	8	23	894	0	.14	.08	2
Pawnee	35.8	73	8	7	23	906	0	.06	.06	15											
WEST CENTRAL																					
Bessie	37.2	74	28	10	23	861	0	.03	.03	15	Putnam	36.5	72	28	9	23	884	0	.03	.03	15
Butler	37.0	76	28	10	23	869	0	.02	.02	15	Retrop	37.5	75	28	11	23	851	0	.01	.01	14
Camargo	36.3	76	8	9	23	889	0	.00	.00	1	Watonga	35.9	71	28	9	23	902	0	.06	.05	15
Cheyenne	38.4	75	28	9	23	825	0	.00	.00	1	Weatherford	36.0	71	28	10	23	900	0	.03	.02	15
Erick	37.1	79	28	10	23	866	0	.00	.00	1											
CENTRAL																					
Bowlegs	37.3	71	20	10	24	858	0	.08	.05	15	Oilton	35.6	75	8	8	24	911	0	.10	.06	15
Bristow	36.0	73	8	8	24	898	0	.10	.07	15	Okemah	36.8	71	8	10	24	873	0	.13	.06	15
Chandler	37.2	73	28	9	23	861	0	.10	.09	15	Perkins	36.7	72	8	9	23	877	0	.10	.10	15
Chickasha	36.6	73	28	10	24	881	0	.06	.06	15	Shawnee	37.6	72	28	10	23	851	0	.08	.07	15
El Reno	35.4	71	8	9	23	917	0	.02	.02	15	Spencer	37.7	72	28	9	23	846	0	.05	.05	15
Guthrie	37.3	70	28	10	23	859	0	.10	.10	15	Stillwater	36.2	73	8	9	23	891	0	.08	.07	15
Kingfisher	36.4	69	28	11	23	888	0	****	****	***	Washington	38.0	73	28	10	24	836	0	.09	.09	15
Marena	36.5	72	8	8	23	884	0	****	****	***	Ninnekah	37.4	73	28	11	24	855	0	.01	.01	15
Marshall	35.7	70	8	9	23	907	0	.16	.16	15	Acme	37.5	73	28	10	24	852	0	.01	.01	15
Minco	36.5	71	28	10	24	883	0	.02	.02	15	Norman	37.8	73	28	11	23	843	0	.05	.05	15
EAST CENTRAL																					
Calvin	37.7	72	8	10	24	848	0	.06	.03	15	Stigler	37.6	71	8	11	24	851	0	.24	.14	1
Cookson	35.4	69	8	8	24	919	0	.27	.11	2	Stuart	38.5	71	8	11	24	821	0	.03	.02	15
Eufaula	38.6	71	8	11	24	820	0	.17	.06	1	Tahlequah	35.6	68	8	8	23	911	0	.16	.05	1
Haskell	****	***	***	***	***	****	****	****	****	***	Webbers Falls	37.3	70	20	12	24	858	0	.21	.11	1
McAlester	38.2	70	20	11	24	831	0	.06	.03	16	Westville	35.1	68	8	7	23	926	0	.13	.04	1
Okmulgee	37.1	73	8	8	24	863	0	.12	.05	1	Hectorville	37.4	73	8	9	23	854	0	.13	.06	15
Sallisaw	36.5	70	8	12	23	882	0	.39	.16	2											
SOUTHWEST																					
Altus	38.6	76	28	14	23	819	0	.00	.00	1	Medicine Park	39.4	72	28	11	24	794	0	.04	.03	12
Fort Cobb	37.2	71	28	11	24	863	0	.01	.01	14	Tipton	38.7	76	20	15	23	815	0	.03	.02	12
Hinton	36.1	69	28	10	23	895	0	.05	.03	15	Walters	39.1	76	20	13	23	802	0	.13	.13	12
Hobart	36.7	73	28	12	23	877	0	.02	.01	14	Apache	36.9	70	28	10	24	870	0	.01	.01	15
Hollis	37.9	79	28	10	23	840	0	.00	.00	1	Grandfield	39.7	77	20	15	23	784	0	.19	.18	12
Mangum	36.9	77	28	12	23	871	0	.00	.00	1											
SOUTH CENTRAL																					
Ada	38.5	72	20	11	24	823	0	.10	.09	15	Pauls Valley	39.3	75	28	11	24	797	0	.06	.06	15
Ardmore	40.4	74	20	12	24	762	0	.00	.00	1	Ringling	39.6	77	20	13	24	786	0	.00	.00	1
Burneyville	39.9	77	20	12	24	779	0	.00	.00	1	Sulphur	38.1	73	20	12	23	835	0	.06	.06	15
Byars	38.8	73	20	11	23	813	0	.15	.14	15	Tishomingo	38.7	71	20	12	24	814	0	.01	.01	16
Centrahoma	37.9	70	8	11	24	841	0	.07	.05	15	Waurika	40.2	78	20	12	24	768	0	.00	.00	1
Durant	41.0	74	20	13	24	745	0	.00	.00	1	Vanoss	38.4	73	20	11	24	824	0	.11	.10	15
Ketchum Ranch	38.6	73	28	12	24	817	0	.03	.02	15	Bee	39.8	72	8	13	24	783	0	.00	.00	1
Lane	39.5	71	20	12	24	791	0	.02	.02	16	Newport	40.6	75	20	12	24	757	0	.00	.00	1
Madill	40.6	74	20	13	24	758	0	.00	.00	1											
SOUTHEAST																					
Antlers	38.2	73	20	9	24	831	0	.02	.01	16	Mt Herman	39.1	69	20	14	24	804	0	.25	.16	16
Clayton	39.5	71	20	11	24	791	0	.05	.03	16	Talihina	38.9	70	20	10	24	810	0	.05	.03	16
Cloudy	39.2	70	20	15	24	799	0	.07	.04	16	Wilburton	37.8	71	8	10	24	844	0	.13	.04	1
Hugo	40.8	72	20	16	24	751	0	.01	.01	16	Wister	37.3	70	8	10	24	860	0	.13	.06	2
Idabel	40.8	71	20	17	24	750	0	.06	.03	16											

EXTREME VALUES OF TEMPERATURE AND PRECIPITATION IN EACH CLIMATE DIVISION JANUARY 2003

CD	MAX TEMP	DATE	LOCATION	MIN TEMP	DATE	LOCATION	24-HOUR PRECIP	DATE	LOCATION	MONTHLY PRECIP	LOCATION
1	78	9	LAVERNE	5	16	BEAVER	.40	2	FARGO	.40	FARGO
2	78	8	WAYNOKA	1	24	CHEROKEE	.21	16	BRAMAN	.30	BRAMAN
3	75 75	8 8	MANNFORD TULSA	1	26	TULSA	.17	16	PRYOR	.36	SPAVINAW
4	79	29	ERICK	9 9 9 9 9	23 24 22 23 23	ELK CITY ELK CITY GEARY GEARY HAMMON	.32	2	VICI	.40	VICI
5	74 74	8 9	BRISTOW CUSHING	7	11	HENNESSEY	.26	15	AMBER	.26	AMBER
6	72	8	MCCURTAIN	7	23	TAHLEQUAH	.27	2	SALLISAW	.33	WEBBERS FALL
7	79	28	HOLLIS	3	25	WICHITA MT	.42	13	FREDERICK	.42	FREDERICK
8	78	20	WAURIKA	10 10 10	23 24 25	COLEMAN PAULS VALLEY PAULS VALLEY	.25	13	BOKCHITO	.25	BOKCHITO
9	73	21	HUGO	8	24	PAGE	.45	21	IDABEL	.45	IDABEL

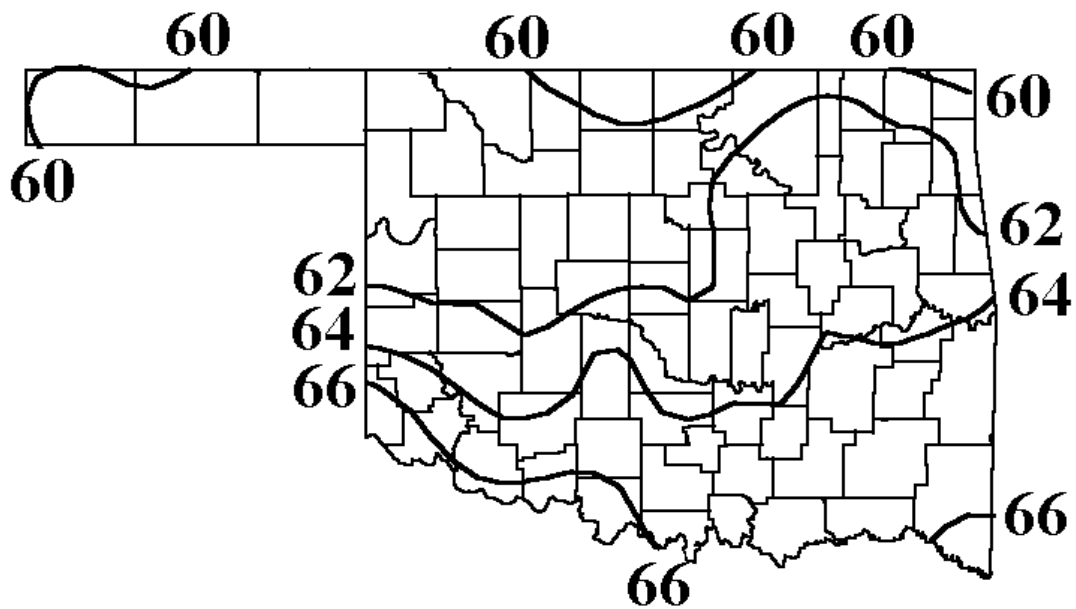
TABLE OF 2002/2003 COMPARISONS

Station	FEBRUARY Temperature (F)		FEBRUARY Precipitation (in.)	
	2002	2003	2002	2003
Arnett	36.3	35.8	1.21	0.03
Enid	38.9	34.6	2.07	0.09
Tulsa	40.3	36.6	2.67	0.14
Elk City	40.1	37.0	1.16	0.02
Oklahoma City	40.0	36.8	2.62	0.01
McAlester	41.7	38.3	3.36	0.07
Altus Irr Station	41.0	38.3	1.75	0.0
Ardmore	44.6	40.3	0.95	0.0
Idabel	45.6	38.8	3.03	0.45

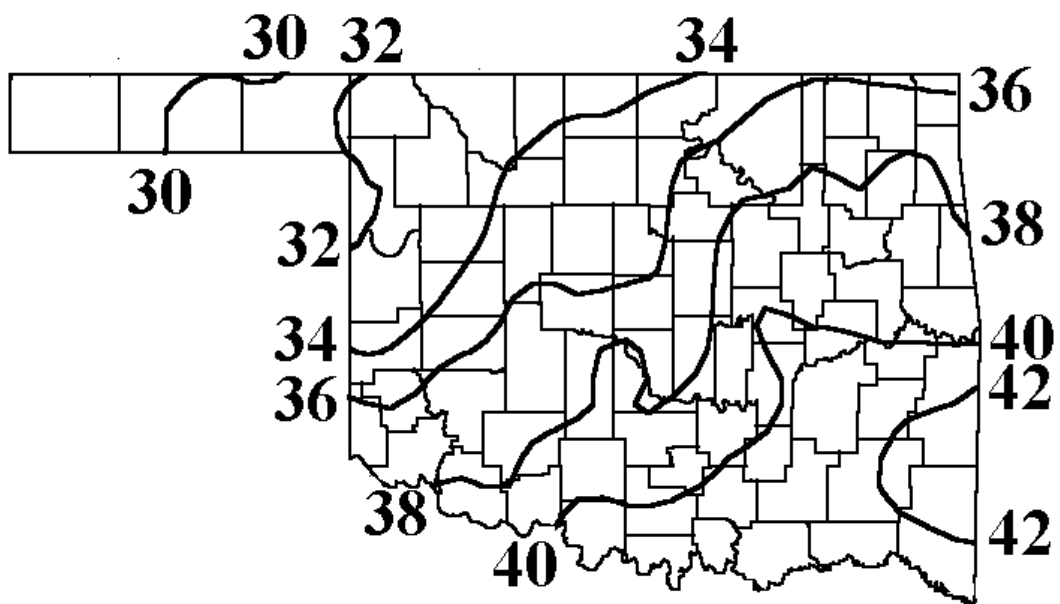
JANUARY 2003 STATEWIDE EXTREMES

VARIABLE	STATION	DIVISION	OBSERVATION	DATE
Minimum temperature (F)	Cherokee	2	01	24
Maximum temperature (F)	Hollis	7	79	28
	Erick	4	79	29
Maximum 24-hour Precipitation	Idabel	9	0.45	21

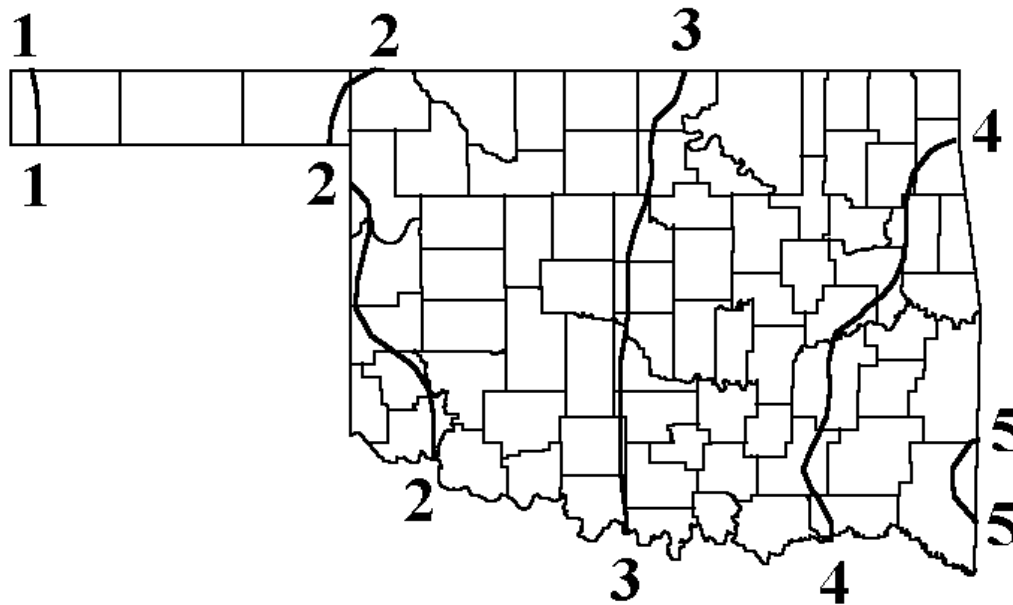
MARCH NORMAL DAILY MAXIMUM TEMPERATURE (°F)



MARCH NORMAL DAILY MINIMUM TEMPERATURE (°F)



MARCH NORMAL MONTHLY PRECIPITATION (INCHES)



MARCH TORNADO STATISTICS

The most tornadoes reported in **MARCH** for Oklahoma was (17) in 1991.

The average number of tornadoes in **MARCH** for Oklahoma is (3.6).

OUTLOOK FOR MARCH 2003 THROUGH MAY 2003

BASED ON SEASONAL OUTLOOK PROVIDED BY THE CLIMATE PREDICTION CENTER

Temperature: Below Normal Temperatures Statewide

Precipitation: Near Normal Precipitation Statewide

OKLAHOMA CITY CLIMATE CALENDAR

MARCH

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 1905-2001.
 Precipitation extremes are for the period 1888-2001.

Day	Avg. Temp.	Ave. High	2003	Record High	Year	Lowest Max	Year	Ave. Low	2003	Highest Min.	Year	Record Low	Year	Avg. Precip.	2003	Greatest Precip.	Year
1	45	57		85	1976	20	1980	34		56	1940	4	1913	0.08		1.71	1948
2	46	57		88	1904	23	1943	34		62	1976	6	1922	0.08		2.04	1988
3	46	57		84	1955	18	1960	34		59	1992	3	1960	0.08		1.46	1985
4	46	58		84	1938	18	1960	35		60	1938	8	1960	0.08		0.67	1933
5	46	58		91	1991	24	1920	35		59	1921	10	1960	0.08		2.13	1894
6	47	58		83	1974	21	1943	35		58	1911	8	1943	0.08		1.45	1973
7	47	59		83	1925	22	1932	35		61	1974	7	1920	0.09		1.33	1905
8	48	59		84	1911	26	1932	36		60	1897	9	1967	0.09		1.82	1994
9	48	60		89	1911	29	1932	36		61	1986	11	1932	0.09		0.88	1913
10	48	60		89	1955	26	1932	36		61	1990	4	1948	0.09		1.48	1974
11	49	60		93	1967	16	1948	37		61	1911	1	1948	0.09		2.16	1902
12	49	61		90	1967	27	1950	37		59	1972	4	1948	0.09		1.81	1999
13	49	61		90	1967	34	1924	37		66	1918	14	1950	0.09		1.39	1922
14	50	61		84	1996	26	1895	38		56	1955	13	1895	0.09		1.04	1990
15	50	62		84	1943	28	1892	38		58	1919	13	1895	0.09		2.34	1944
16	50	62		84	1908	28	1892	38		56	1945	18	1895	0.09		1.71	1998
17	51	62		91	1908	24	1892	39		59	1992	11	1892	0.09		0.85	1905
18	51	63		89	1907	30	1965	39		62	1898	9	1923	0.09		0.52	1998
19	51	63		97	1907	26	1965	39		63	1921	10	1923	0.09		1.73	1903
20	52	63		92	1907	33	1913	40		64	1935	12	1965	0.09		2.18	1985
21	52	64		95	1916	29	1955	40		64	1907	16	1913	0.09		1.23	1921
22	52	64		89	1995	33	1913	40		63	1907	13	1955	0.09		1.37	1979
23	53	64		88	1929	36	1974	41		64	1907	20	1898	0.09		2.35	1984
24	53	65		91	1929	30	1990	41		64	1904	23	1965	0.09		1.82	1920
25	53	65		88	1976	33	1964	42		64	1907	18	1955	0.09		1.65	1922
26	54	66		85	1972	33	1937	42		67	1907	13	1955	0.09		2.02	1938
27	54	66		90	1895	32	1899	42		68	1907	13	1913	0.09		2.09	1912
28	54	66		88	1928	36	1931	43		62	1985	16	1931	0.09		2.84	1988
29	55	67		87	1895	34	1887	43		65	1963	19	1894	0.09		0.99	1897
30	55	67		88	1904	28	1926	43		65	1895	22	1987	0.08		1.82	1963
31	56	67		94	1940	40	1901	44		62	1967	20	1926	0.08		1.29	1988
MONTH	50.3	62		97	1907	16	1948	38.5		68	1907	1	1948	2.71		2.84	1988

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

TULSA CLIMATE CALENDAR

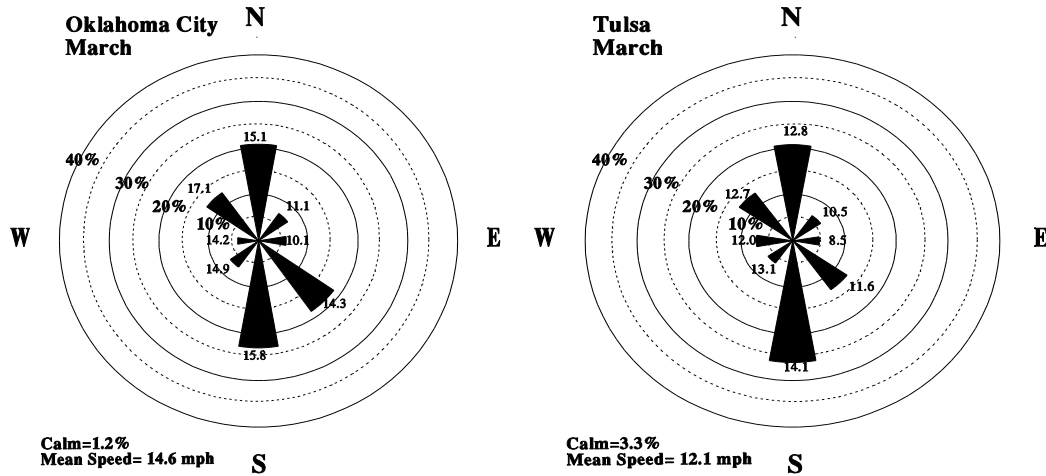
MARCH

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

Day	Avg. Temp.	Ave. High	2003	Record High	Year	Lowest Max	Year	Ave. Low	2003	Highest Min.	2003	Record Low	Year	Avg. Precip.	2003	Greatest Precip.	Year
1	45	56		81	1967	26	1980	34		61	1932	9	1962	0.09		1.63	1973
2	45	56		84	1976	21	1943	34		59	1970	7	1943	0.10		2.06	1988
3	46	57		82	1955	25	1960	34		64	1960	3	1943	0.10		1.45	1953
4	46	57		83	1938	18	1960	35		57	1992	6	1960	0.10		1.53	1915
5	46	58		88	1991	20	1960	35		60	1956	5	1960	0.10		1.16	1933
6	47	58		87	1974	24	1943	35		64	1916	13	1943	0.10		1.57	1973
7	47	58		83	1925	31	1996	36		66	1974	6	1920	0.10		2.72	1998
8	48	59		87	1925	24	1932	36		63	1974	5	1967	0.11		1.67	1994
9	48	59		88	1911	28	1932	37		61	1925	8	1996	0.11		1.95	1922
10	48	60		91	1955	29	1948	37		60	1955	4	1948	0.11		1.91	1974
11	49	60		94	1967	17	1948	37		62	1967	-1	1948	0.11		1.97	1935
12	49	61		91	1967	29	1950	38		63	1967	-3	1948	0.11		1.85	1902
13	49	61		92	1967	33	1975	38		64	1938	12	1948	0.11		1.40	1937
14	50	61		85	1977	30	1906	38		58	1944	13	1975	0.11		1.56	1945
15	50	62		84	1921	30	1906	39		64	1905	21	1970	0.11		2.64	1944
16	51	62		86	1908	31	1906	39		58	1982	22	1962	0.12		1.34	1998
17	51	63		88	1916	34	1970	39		59	1992	20	1906	0.12		1.45	1977
18	51	63		99	1907	30	1965	40		63	1933	12	1923	0.12		1.29	1905
19	52	63		96	1907	32	1965	40		65	1921	8	1923	0.12		1.15	1968
20	52	64		92	1907	39	1983	41		68	1921	11	1965	0.12		1.70	1909
21	53	64		98	1916	32	1912	41		66	1907	18	1974	0.12		3.25	1921
22	53	65		94	1995	40	1952	41		67	1995	15	1955	0.12		1.25	1926
23	53	65		91	1907	33	1974	42		61	1994	21	1968	0.12		2.50	1969
24	54	65		91	1929	30	1965	42		62	1910	19	1966	0.12		2.00	1913
25	54	66		88	1910	28	1965	42		66	1935	18	1955	0.12		3.18	1920
26	54	66		87	1918	34	1955	43		70	1991	14	1955	0.12		2.48	1922
27	55	66		88	1956	36	1913	43		69	1907	13	1913	0.12		1.86	1975
28	55	67		90	1963	37	1931	43		69	1985	17	1931	0.12		2.55	1912
29	56	67		90	1967	34	1987	44		67	1963	24	1944	0.12		2.15	1918
30	56	68		86	1981	35	1926	44		66	1967	21	1964	0.11		1.78	1973
31	56	68		96	1974	44	1926	45		68	1917	24	1926	0.11		1.21	1957
MONTH	51	62		99	1907	17	1948	39		70	1991	-3	1948	0.11		3.25	1921

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

MARCH WIND ROSES



March 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.

MARCH SUNRISE/SUNSET TIMES FOR 2003

ALL TIMES ARE CENTRAL STANDARD TIME

OKLAHOMA CITY			TULSA		
DATE	SUNRISE	SUNSET	DATE	SUNRISE	SUNSET
3/1/03	7:39 AM	5:28 PM	3/1/03	7:35 AM	5:20 PM
3/2/03	7:40 AM	5:29 PM	3/2/03	7:35 AM	5:21 PM
3/3/03	7:40 AM	5:30 PM	3/3/03	7:35 AM	5:22 PM
3/4/03	7:40 AM	5:30 PM	3/4/03	7:35 AM	5:22 PM
3/5/03	7:40 AM	5:31 PM	3/5/03	7:35 AM	5:23 PM
3/6/03	7:40 AM	5:32 PM	3/6/03	7:35 AM	5:24 PM
3/7/03	7:40 AM	5:33 PM	3/7/03	7:35 AM	5:25 PM
3/8/03	7:40 AM	5:34 PM	3/8/03	7:35 AM	5:26 PM
3/9/03	7:40 AM	5:35 PM	3/9/03	7:35 AM	5:27 PM
3/10/03	7:40 AM	5:36 PM	3/10/03	7:35 AM	5:28 PM
3/11/03	7:40 AM	5:37 PM	3/11/03	7:35 AM	5:29 PM
3/12/03	7:40 AM	5:38 PM	3/12/03	7:35 AM	5:30 PM
3/13/03	7:39 AM	5:39 PM	3/13/03	7:35 AM	5:31 PM
3/14/03	7:39 AM	5:39 PM	3/14/03	7:34 AM	5:32 PM
3/15/03	7:39 AM	5:40 PM	3/15/03	7:34 AM	5:33 PM
3/16/03	7:39 AM	5:41 PM	3/16/03	7:34 AM	5:34 PM
3/17/03	7:38 AM	5:42 PM	3/17/03	7:33 AM	5:35 PM
3/18/03	7:38 AM	5:43 PM	3/18/03	7:33 AM	5:36 PM
3/19/03	7:38 AM	5:44 PM	3/19/03	7:33 AM	5:37 PM
3/20/03	7:37 AM	5:45 PM	3/20/03	7:32 AM	5:38 PM
3/21/03	7:37 AM	5:46 PM	3/21/03	7:32 AM	5:39 PM
3/22/03	7:36 AM	5:47 PM	3/22/03	7:31 AM	5:40 PM
3/23/03	7:36 AM	5:48 PM	3/23/03	7:31 AM	5:41 PM
3/24/03	7:35 AM	5:50 PM	3/24/03	7:30 AM	5:42 PM
3/25/03	7:35 AM	5:51 PM	3/25/03	7:30 AM	5:43 PM
3/26/03	7:34 AM	5:52 PM	3/26/03	7:29 AM	5:44 PM
3/27/03	7:33 AM	5:53 PM	3/27/03	7:28 AM	5:45 PM
3/28/03	7:33 AM	5:54 PM	3/28/03	7:28 AM	5:46 PM
3/29/03	7:32 AM	5:55 PM	3/29/03	7:27 AM	5:47 PM
3/30/03	7:31 AM	5:56 PM	3/30/03	7:26 AM	5:48 PM
3/31/03	7:31 AM	5:57 PM	3/31/03	7:26 AM	5:49 PM

CONTACT INFORMATION



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