

OKLAHOMA MONTHLY CLIMATE SUMMARY

APRIL 2003

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Oklahoma Climatological Survey

MONTHLY SUMMARY FOR APRIL 2003

April 2003

Statewide average temperature = 60.7° F
Statewide average rainfall = 1.88 inches

Oklahoma's severe weather season perked up somewhat during April, while the state's precipitation deficit continued to increase. The National Weather Service's preliminary tornado count for April stands at eight. Although that figure falls below the 10 tornadoes that April normally sees, it remains as the most tornadoes the state has seen since October 2001, when 19 twisters touched down. Along with four tornadoes from March, the state's preliminary total of 12 for the year thus far falls only six short of the 18 experienced during all of 2002.

The increased severe weather activity did not ease the state's burgeoning rainfall deficit, however. According to data from the Oklahoma Mesonet, the statewide-averaged rainfall for the month was 1.88 inches, 1.44 inches below normal and ranked as the 17th driest April since record-keeping began in 1892. South central Oklahoma received 1.06 inches of rain on average, a scant 29 percent of the region's normal precipitation for the month. Southeastern regions fared little better – at 1.90 inches, they received on average 41 percent of normal precipitation. The only sections of the state that received near or above normal precipitation were west central and north central Oklahoma, with 2.32 inches and 2.73 inches, respectively.

April Normals

Statewide average temperature = 59.8° F
Statewide average rainfall = 3.32 inches

The lack of appreciable April rainfall only exacerbated the dry conditions already in place. Combined with deficits from January and March, 2003's statewide-average of 5.78 inches through April dipped 3.83 inches below normal, making it the 14th driest January-April period on record. Over the last 30 years, only 1996 was drier with 5.09 inches. The driest such period occurred during the Dust Bowl year of 1936, when the parched earth saw a paltry 2.35 inches of precipitation. Southeastern and south central Oklahoma have been hardest hit during 2003, with deficits of 7.72 and 6.82 inches, respectively, for the year.

The dry conditions had seemingly little effect on the state's winter wheat crop, where timing of precipitation is often more important than quantity. Officials at the Oklahoma Agricultural Statistics Service reported that 90 percent of the state's wheat was in fair to excellent condition, with only 10 percent rated as poor. During the same period last year, in the midst of drought conditions, the state's wheat crop was rated as 37 percent poor, with only 63 percent in the fair to excellent category. The conditions had deteriorated enough for the National Drought Mitigation Center to place all but north central Oklahoma in the "abnormally dry" category, one level below moderate drought.

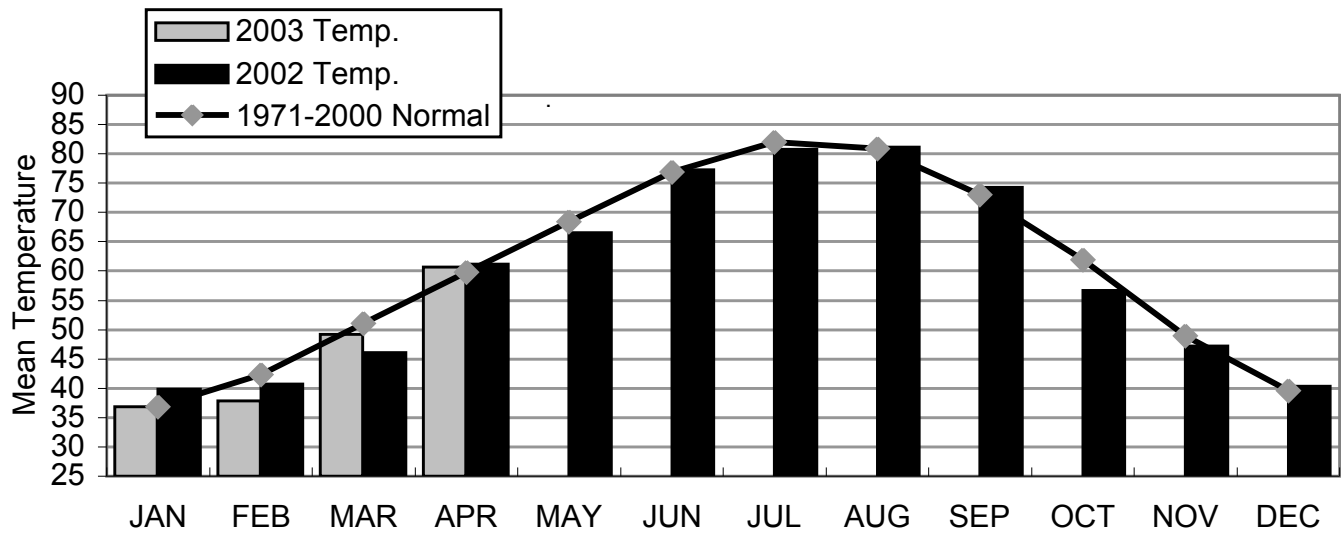
(Continued on page 3.)

Other than a bitter cold snap in the month's second week, April temperatures remained quite seasonable. The statewide-averaged temperature for the month of 60.7 degrees Fahrenheit was 0.9 degrees above normal. A strong cold front on the 7th dropped temperatures significantly below normal and brought a freeze to the entire state, interrupting pleasant weather of the first week. The coldest temperature of the month, 17 degrees, occurred at Ft. Supply (Woodward County) on the 9th. The last freezing temperature of the month, and possibly of the season, was recorded at the Boise City (Cimarron) Mesonet station on the 21st, when the temperature dipped down briefly to 32 degrees. Hooker (Texas) reached 97 degrees on the 14th for the state's warmest temperature of the month. This temperature also was the highest recorded by the Oklahoma Mesonet since Mangum (Greer) reached 104 degrees on September 18th, 2002.

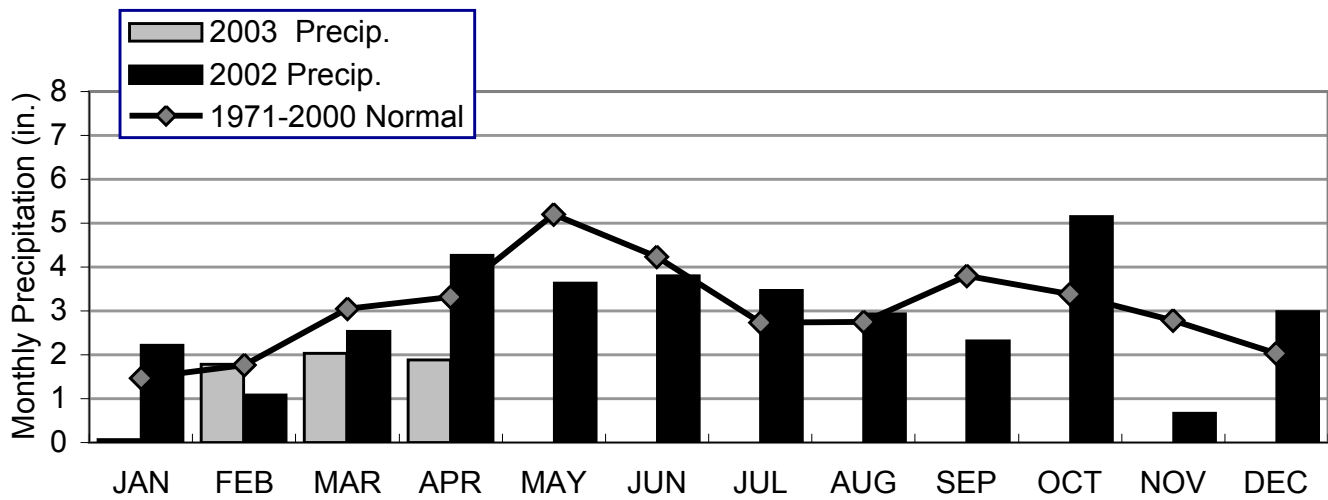
The 15th was the most active day for severe weather. On that day, severe storms across western Oklahoma spawned seven possible tornadoes, damaging businesses and homes in Beckham, Jackson, Roger Mills, and Washita counties. The Sweetwater (Beckham) school and its Superintendent's residence suffered damage from one of the twisters. The month's only significant tornado, rated F2 on the Fujita Scale, tracked 20 miles through Osage, Washington, and Nowata counties before moving into Kansas. The town of Dewey (Washington) was the hardest struck, with damage to 40 homes, 2 businesses destroyed, and with estimates of over \$1.5 million in damage.

Gary D. McManus

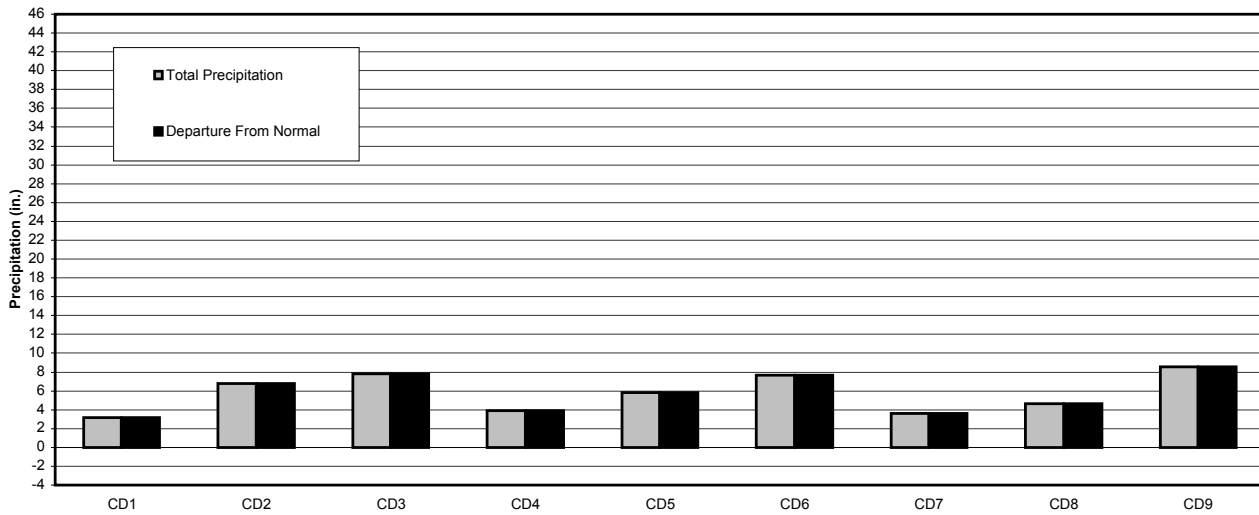
2002 AND 2003 STATEWIDE TEMPERATURES - MONTHLY AVERAGES



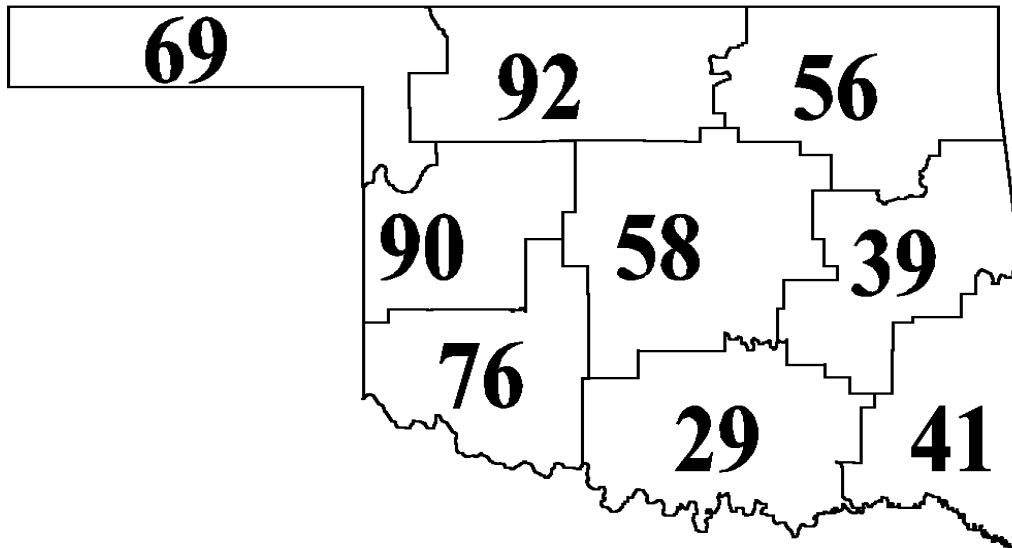
2002 AND 2003 STATEWIDE PRECIPITATION - MONTHLY TOTALS



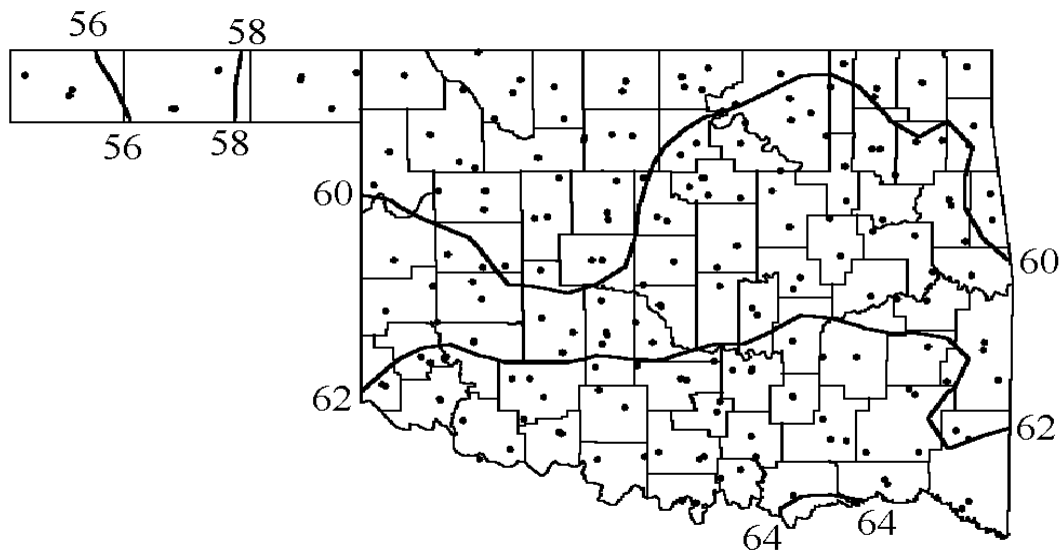
CLIMATE DIVISION AVERAGED PRECIPITATION - JANUARY THROUGH APRIL 2003



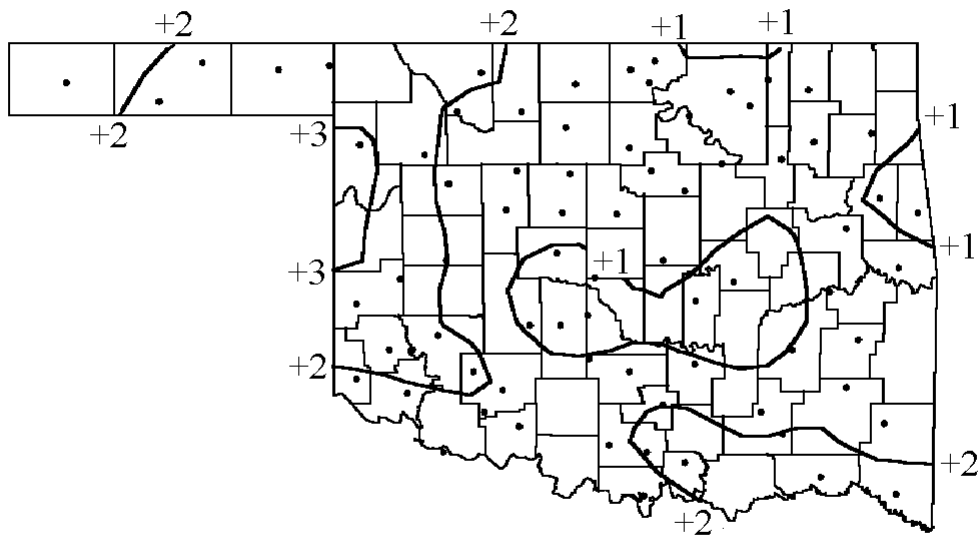
CLIMATE DIVISION PERCENT OF NORMAL PRECIPITATION - APRIL 2003



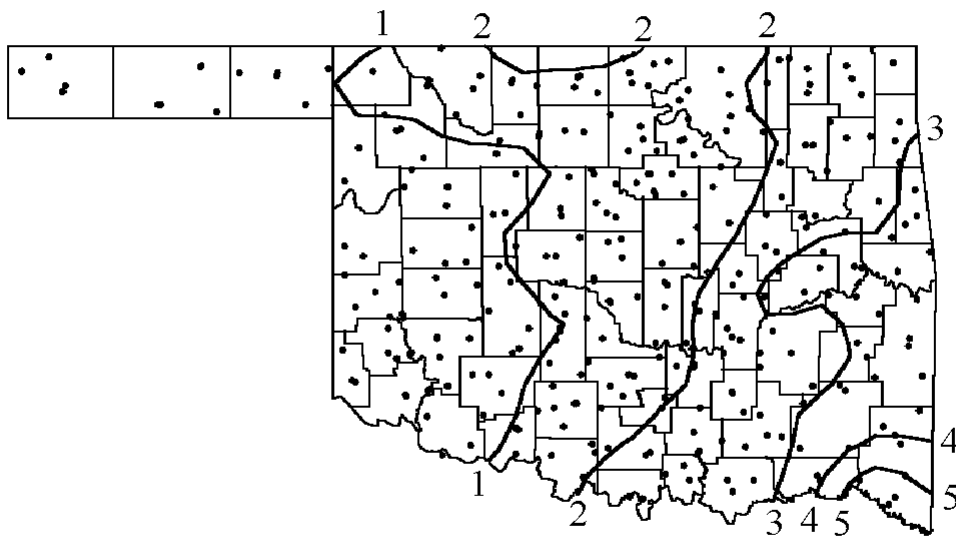
APRIL 2003 AVERAGE MONTHLY TEMPERATURE (°F)



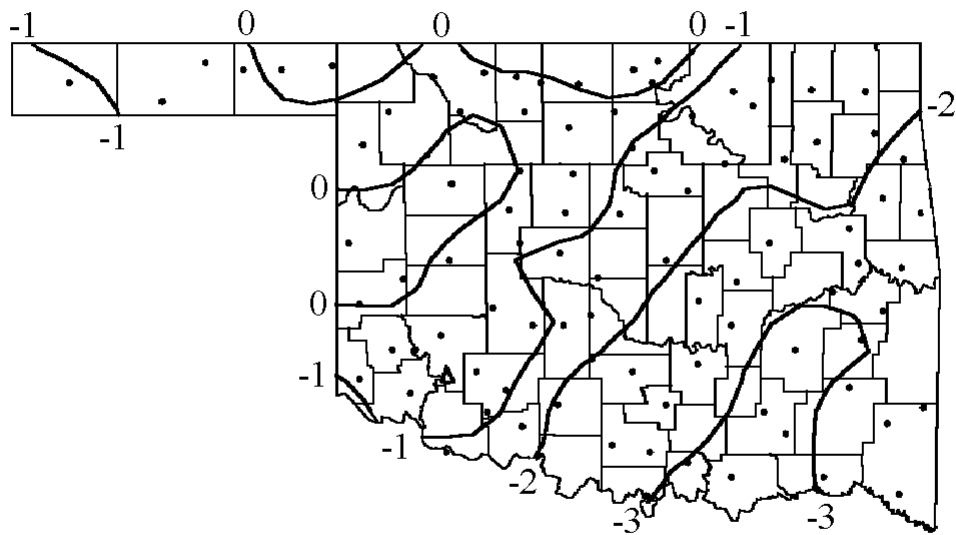
APRIL 2003 DEPARTURE FROM NORMAL TEMPERATURE (°F)



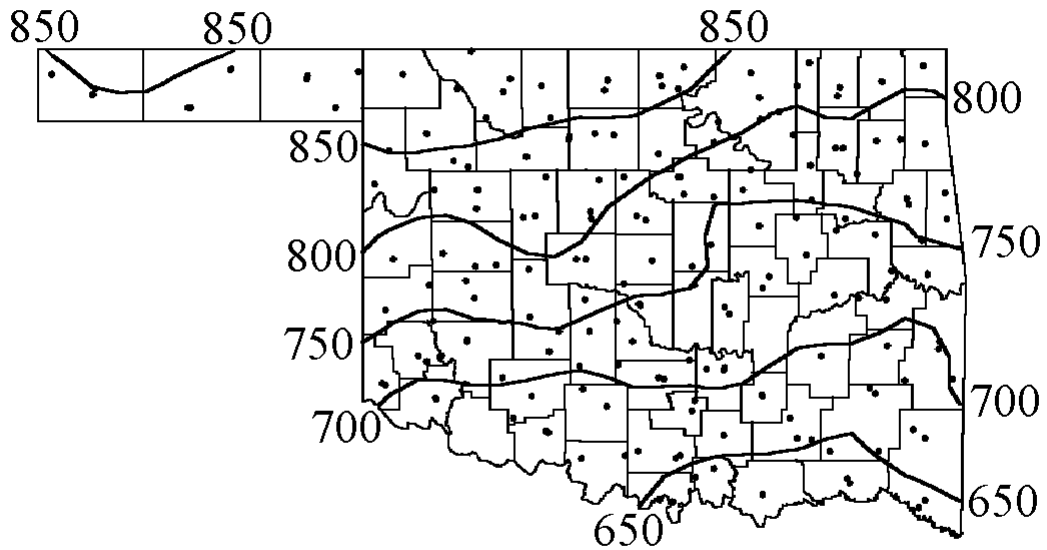
APRIL 2003 PRECIPITATION (INCHES)



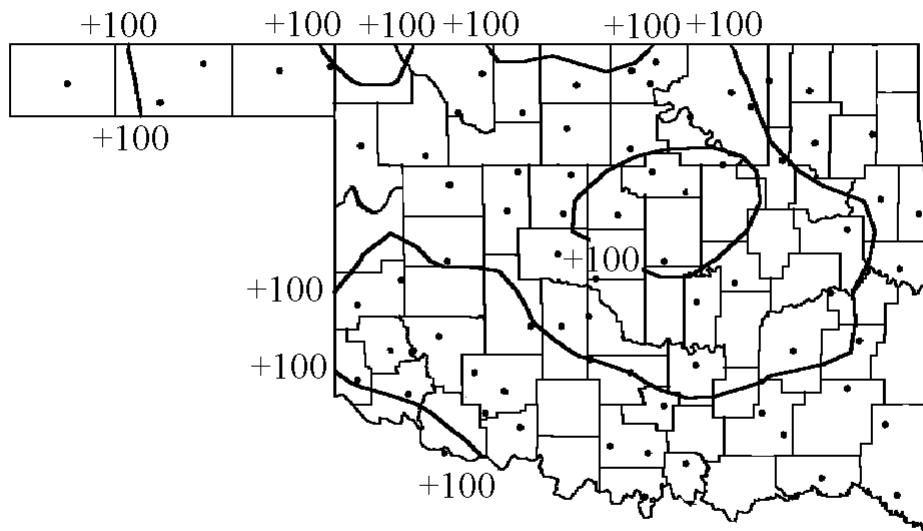
APRIL 2003 DEPARTURE FROM NORMAL PRECIPITATION (INCHES)



APRIL 2003 ACCUMULATED HEATING DEGREE DAYS (°F)



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



APRIL 2003 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		DAY	
					FROM NORM	MAX TEMP									FROM NORM	MAX 24-HR		
ARNETT	332	1	57.8	30	2.5	89	2	23	10	245	-64	29	12	1,540	30	-0.69	0.61	18
BEAVER	593	1	57.6	30	2.3	94	15	21	10	252	-60	30	11	2,040	30	0.22	1.47	16
BOISE CITY	908	1	55.8	30	1.8	86	14	24	7	286	-56	9	-3	0.383	30	-1.08	0.28	16
GAGE	3407	1	59.8	30	3.6	92	2	19	9	210	-71	54	37	0.612	30	-1.48	0.28	15
GATE	3489	1	58.5	30	2.1	92	15	25	9	235	-55	41	11	2,931	30	1.02	1.29	16
GOODWELL	3628	1	57.0	30	2.1	89	30	23	8	258	-64	18	0	0.470	30	-0.93	0.32	24
GUYMON	3835	1	54.5	16	*****	89	15	22	8	185	*****	17	*****	0.000	17	*****	0.00	23
HOOKER	4298	1	58.5	30	2.1	92	14	27	9	222	-61	26	3	0.990	30	-0.55	0.50	15
RANGE	7412	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.920	30	*****	0.31	23
REGNIER	7534	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.761	30	*****	0.32	16
TURPIN	9017	1	58.0	23	*****	92	15	23	9	186	*****	24	*****	1.340	30	-0.16	0.79	16

APRIL 2003 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		DAY	
					FROM NORM	MAX TEMP									FROM NORM	MAX 24-HR		
ALVA	193	2	59.2	30	2.5	89	14	26	12	214	-61	40	16	2,710	30	0.12	0.96	24
BILLINGS	755	2	59.2	27	*****	86	15	26	9	203	*****	46	*****	3,651	30	0.06	1.90	19
BLACKWELL 2E	818	2	58.8	30	2.5	85	19	21	8	220	-61	32	17	4,461	30	0.85	1.19	24
BRAMAN	1075	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3,370	30	*****	1.01	20
CHEROKEE	1724	2	56.7	27	*****	86	14	23	10	240	*****	17	*****	2,490	30	-0.18	2.00	24
ENID	2912	2	60.1	30	2.8	88	28	29	9	196	-57	50	28	2,373	30	-0.88	0.83	24
FT SUPPLY	3304	2	58.7	25	*****	91	4	17	9	193	*****	35	*****	1,840	30	-0.33	1.22	19
FREEDOM	3358	2	58.3	27	*****	91	2	22	9	219	*****	37	*****	1,830	30	-0.56	0.80	17
GREAT SALT P	3740	2	59.2	25	*****	85	19	28	12	175	*****	31	*****	2,660	30	-0.14	1.26	24
HELENA	4019	2	58.7	30	1.9	84	28	26	9	219	-52	28	5	2,591	30	-0.20	1.13	24
JEFFERSON	4573	2	57.6	30	0.7	85	19	22	9	249	-18	27	4	3,160	30	0.00	1.20	19
LAHOMA	4950	2	59.3	30	*****	87	15	25	9	202	*****	29	*****	2,520	30	*****	1.10	24
LAMONT	5013	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2,170	30	*****	0.71	19
MEDFORD	5768	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1,430	30	*****	0.65	19
MORRISON	6065	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2,240	30	*****	0.74	6
MUTUAL	6139	2	57.9	30	2.4	88	2	22	9	250	-57	36	16	2,280	30	-0.21	0.80	19
NEWKIRK	6278	2	56.5	30	0.8	84	15	24	10	281	-14	28	11	5,540	30	1.66	1.70	19
ORIENTA	6751	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3,381	30	*****	1.47	24
PERRY	7012	2	60.9	30	2.1	87	28	29	9	186	-30	63	34	2,201	30	-1.19	1.13	19
PONCA CITY	7201	2	59.1	30	0.2	87	14	24	9	226	11	50	18	3,893	30	0.38	2.25	19
RED ROCK	7505	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2,180	30	*****	0.93	18
WAYNOKA	9404	2	59.6	30	1.4	89	30	24	8	217	-25	54	18	2,291	30	0.02	0.94	23
WOODWARD	9760	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1,540	30	*****	0.68	19

APRIL 2003 SUMMARY FOR NORTHEAST CLIMATE DIVISION (CD3)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV		MIN TEMP	DAY	HEAT DEG	DEV FROM	COOL DEG	DEV FROM	TOT PPT	NUM OBS	DEV		DAY	
					FROM NORM	MAX TEMP									FROM NORM	Max 24-HR		
BARNSDALL	535	3	61.6	30	1.8	86	30	26	9	170	-22	68	34	1.780	31	-2.21	0.71	24
BARTLESVILLE	548	3	61.3	30	0.8	88	30	27	10	176	-1	63	22	1.700	30	-2.14	0.59	6
BIXBY	782	3	60.7	12	*****	88	13	30	9	69	*****	17	*****	1.351	27	*****	0.71	6
BURBANK	1256	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.222	30	*****	2.58	19
CHELSEA	1717	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.940	30	*****	0.87	24
CLAREMORE	1828	3	58.8	30	0.8	86	19	27	9	219	-14	33	12	2.813	31	-1.27	1.10	7
HOLLOW	4258	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.292	30	*****	0.98	24
HOMINY	4289	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.310	30	*****	0.45	24
KANSAS	4672	3	62.3	18	*****	85	18	23	12	88	*****	39	*****	1.880	30	-2.51	0.86	23
LENAPAH	5118	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.300	30	*****	0.69	24
MANNFORD	5522	3	62.6	29	1.3	88	18	27	9	148	-16	79	30	1.930	30	-1.70	0.76	16
MARAMEC	5540	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.590	30	*****	0.56	16
NOWATA	6485	3	61.4	30	1.3	85	27	28	9	158	-33	50	9	1.780	30	-2.17	0.70	24
PAWHUSKA	6935	3	61.2	30	1.3	86	30	28	10	184	-6	71	35	2.504	30	-2.00	0.80	6
PAWNEE	6940	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.600	30	*****	0.55	20
RALSTON	7390	3	60.0	30	1.7	86	18	23	9	194	-33	43	17	1.651	30	-2.11	0.65	6
SPAVINAW	8380	3	62.6	30	1.8	85	19	32	9	140	-21	69	34	2.704	30	-1.59	0.85	24
TULSA	8992	3	61.9	30	1.1	88	30	27	9	160	-19	68	18	2.162	30	-1.79	1.15	6
UPPER SPAV	9101	3	59.8	30	*****	86	30	26	10	195	*****	39	*****	2.542	30	*****	0.96	24
VINITA	9203	3	60.5	25	*****	86	18	28	10	143	*****	32	*****	2.850	30	-1.07	1.10	7
WANN	9298	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.970	30	*****	1.01	6

APRIL 2003 SUMMARY FOR WEST CENTRAL CLIMATE DIVISION (CD4)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV		MIN TEMP	DAY	HEAT DEG	DEV FROM	COOL DEG	DEV FROM	TOT PPT	NUM OBS	DEV		DAY	
					FROM NORM	MAX TEMP									FROM NORM	MAX 24-HR		
CLINTON	1909	4	60.6	30	2.2	89	28	26	9	171	-64	38	4	2.030	30	-0.53	0.90	19
COLONY	2039	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.140	30	*****	0.14	25
CORDELL	2125	4	59.3	30	*****	88	28	24	10	208	*****	37	*****	2.151	30	*****	0.98	19
ELK CITY	2849	4	60.1	29	2.8	92	2	30	9	181	-70	38	21	2.880	30	0.43	1.16	19
ERICK	2944	4	60.5	30	3.1	91	2	26	10	184	-65	50	29	2.190	30	0.00	0.90	24
GEARY	3497	4	60.1	28	*****	87	26	30	8	188	*****	49	*****	1.550	30	-1.20	0.80	18
MORAVIA	6035	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.060	30	*****	1.00	19
OKEENE	6629	4	61.1	30	1.5	88	30	26	9	179	-23	61	22	2.760	30	-0.03	0.74	19
RETROP	7565	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.050	30	*****	0.92	19
REYDON	7579	4	60.2	27	*****	91	2	28	8	173	*****	44	*****	3.820	30	1.45	3.21	16
SAYRE	7952	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.010	30	*****	0.71	16
SWEETWATER	8652	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.821	30	*****	1.20	16
TALOGA	8708	4	57.7	29	1.2	87	28	20	9	229	-48	19	-4	4.070	30	1.31	2.20	24
THOMAS	8815	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.380	30	*****	0.94	18
VICI	9172	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.612	30	*****	1.29	16
WATONGA	9364	4	58.9	30	1.7	86	28	26	10	221	-38	37	14	2.582	30	-0.23	0.92	6

APRIL 2003 SUMMARY FOR CENTRAL CLIMATE DIVISION (CD5)

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		
AMBER	200	5	*****	0	*****	***	0	****	0	*****	*****	*****	*****	2.820	30	*****	0.84	23
ARCADIA	288	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.150	30	*****	1.02	6
BLANCHARD	830	5	61.5	30	-0.1	86	28	31	9	160	12	56	11	2.161	30	-1.13	0.84	16
BRISTOW	1144	5	62.7	28	*****	87	30	28	10	133	*****	68	*****	2.290	28	*****	1.15	7
CHANDLER	1684	5	60.7	27	*****	87	16	28	10	163	*****	47	*****	1.730	28	*****	0.50	6
CHICKASHA EXP	1750	5	62.6	30	0.2	88	27	26	9	130	-7	59	1	2.490	30	-1.02	0.80	15
COX CITY	2196	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.980	30	*****	0.38	16
CRESCENT	2242	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.892	30	*****	1.23	19
CUSHING	2318	5	61.7	30	2.1	87	19	30	9	159	-41	59	23	2.250	30	-1.48	1.34	6
EDMOND	2788	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.290	30	*****	0.45	5
EL RENO	2818	5	58.6	30	0.4	86	28	25	9	227	-5	35	9	1.150	30	-1.84	0.70	16
GUTHRIE	3821	5	60.1	30	1.5	87	28	22	10	204	-23	57	25	1.960	30	-1.17	0.82	16
HENNESSEY	4055	5	57.3	30	0.7	85	28	20	8	251	-23	21	-1	2.880	30	-0.31	1.05	19
INGALLS	4489	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.760	30	*****	0.72	16
KINGFISHER	4861	5	59.3	30	2.2	87	27	26	10	208	-52	38	14	3.390	30	0.16	2.20	19
KONAWA	4915	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.400	30	*****	1.40	24
MARSHALL	5589	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.000	30	*****	1.44	19
MEEKER	5779	5	60.1	29	2.6	85	28	27	10	182	-65	38	19	1.762	30	-1.59	0.57	16
MULHALL	6110	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.170	30	*****	0.75	16
NORMAN NWS	6386	5	61.2	30	*****	86	27	29	9	165	*****	50	*****	3.060	30	*****	1.45	6
OKEMAH	6638	5	62.9	30	0.0	86	30	30	9	115	-3	52	-2	1.290	30	-2.70	0.69	24
OKLAHOMA CTY	6659	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.962	30	*****	0.61	15
OKLAHOMA CTY	6661	5	59.9	30	0.2	86	27	29	9	183	-14	30	-9	1.562	30	-1.44	0.50	19
PERKINS	7003	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.440	30	*****	0.66	16
PIEDMONT	7068	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.810	30	*****	1.05	16
PRAGUE	7264	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.591	30	*****	1.33	6
SEMINOLE	8042	5	60.5	30	-0.3	86	20	28	10	166	1	32	-8	0.924	30	-3.13	0.72	24
SHAWNEE	8110	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.520	30	*****	1.01	6
STELLA	8479	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.480	30	*****	1.50	6
STILLWATER	8501	5	61.1	30	2.2	88	15	26	9	173	-41	56	26	1.472	31	-1.98	0.51	17
STROUD	8563	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.991	30	*****	0.40	6
TECUMSEH	8751	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.830	30	*****	1.10	5
UNION CITY	9086	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.652	30	*****	1.26	6
WANETTE	9291	5	60.9	28	*****	85	28	25	9	156	*****	42	*****	2.630	30	*****	2.10	24
WEWOKA	9575	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.152	30	*****	1.00	24

APRIL 2003 SUMMARY FOR EAST CENTRAL CLIMATE DIVISION (CD6)

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		
ASHLAND	364	6	*****	0	*****	***	0	****	0	*****	*****	*****	*****	0.571	30	*****	0.30	24
CHECOTAH	1711	6	63.3	28	*****	88	18	28	9	128	*****	82	*****	0.951	30	*****	0.71	24
CALVIN	1391	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.700	30	*****	0.35	19
CLAYTON	1858	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.010	30	*****	0.65	20
DEWAR	2485	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.431	30	*****	0.72	24
DUSTIN	2690	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.800	30	*****	1.90	16
HASKELL	3956	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.570	30	*****	0.70	7
HOLDENVILLE	4235	6	61.4	26	*****	87	29	27	8	132	*****	39	*****	1.701	30	-2.50	0.90	22
LAKE EUFAULA	4975	6	60.8	30	1.3	86	19	31	10	173	-18	47	22	1.560	30	-2.72	1.13	20
LYONS	5437	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.190	30	*****	1.02	24
MCALESTER	5664	6	62.5	30	1.0	85	18	26	9	134	-10	59	21	0.745	30	-3.43	0.50	19
MCCURTAIN	5693	6	63.6	27	*****	88	18	30	10	122	*****	84	*****	1.871	30	-2.74	0.90	24
MUSKOGEE	6130	6	61.1	30	1.4	87	18	27	9	176	-11	59	33	2.170	30	-1.80	0.96	23
OKMULGEE	6670	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.320	30	-2.89	0.73	23
OKTAHA	6678	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.541	30	*****	0.79	24
SALLISAW	7862	6	61.9	30	2.5	88	19	31	10	151	-42	58	33	3.300	30	-1.07	2.04	20
SCPIO	7979	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.240	30	*****	1.00	20
SHORT	8170	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.040	30	*****	1.70	20
STILWELL	8506	6	58.2	30	-0.3	83	18	25	10	228	13	23	2	0.740	30	-4.05	0.64	20
TAHLEQUAH	8677	6	61.0	30	0.8	85	30	26	10	170	-7	51	16	1.821	30	-2.26	1.02	24
WEBBERS FALL	9445	6	59.3	28	*****	88	19	27	10	193	*****	34	*****	1.330	31	-2.93	0.68	24
WETUMKA	9571	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.353	30	*****	0.92	24

APRIL 2003 SUMMARY FOR SOUTHWEST CLIMATE DIVISION (CD7)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV		MIN DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV		DAY
					FROM NORM	MAX TEMP										FROM NORM	MAX 24-HR	
ALTUS	179	7	62.0	30	1.2	93	27	24	9	141	-31	50	4	2.570	30	0.14	1.91	19
ALTUS DAM	184	7	64.8	30	3.8	94	28	28	10	106	-67	98	51	2.170	30	-0.34	0.92	16
ANADARKO	224	7	58.7	30	0.5	88	29	23	10	230	1	42	19	2.630	30	0.11	1.07	19
APACHE	260	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.370	30	*****	1.30	19
CARNEGIE	1504	7	60.4	27	*****	92	28	25	9	166	*****	43	*****	1.510	30	-1.28	0.69	16
CHATTANOOGA	1706	7	61.0	30	1.2	93	28	26	10	170	-23	49	12	2.581	30	-0.08	1.64	24
DUNCAN 11 W	2668	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.721	30	*****	0.20	16
FREDERICK	3353	7	64.6	26	*****	95	27	32	9	69	*****	59	*****	1.420	29	*****	0.75	17
HEADRICK	3998	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.601	30	*****	0.60	12
HOBART	4204	7	60.4	29	0.8	88	27	24	9	174	-28	42	2	2.560	30	0.03	1.33	15
HOLLIS	4249	7	62.6	30	1.6	94	27	23	9	135	-36	64	14	1.361	30	-1.25	0.93	19
LAWTON	5063	7	62.7	29	1.3	92	28	31	9	117	-42	49	1	1.620	30	-1.29	0.85	24
LOOKEBA	5329	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.020	30	*****	1.34	19
MANGUM	5509	7	62.4	29	2.8	94	28	25	10	136	-62	60	23	1.591	30	-0.66	1.10	19
RANDLETT	7403	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.240	30	*****	0.54	16
ROOSEVELT	7727	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.600	30	*****	1.43	19
SEDAN	8016	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.150	30	*****	1.12	19
SNYDER	8299	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.450	30	*****	1.00	19
VINSON	9212	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.970	30	*****	1.18	19
WALTERS	9278	7	63.3	30	2.7	92	29	29	10	117	-57	67	26	1.220	30	-1.69	0.54	16
WICHITA MT	9629	7	62.8	29	3.9	91	28	28	9	125	-93	63	30	3.620	30	0.73	1.36	19
WILLOW	9668	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.290	30	*****	1.09	19

APRIL 2003 SUMMARY FOR SOUTH CENTRAL CLIMATE DIVISION (CD8)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV		MIN DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV		DAY
					FROM NORM	MAX TEMP										FROM NORM	MAX 24-HR	
ADA	17	8	62.3	30	1.4	87	19	26	9	122	-37	41	5	1.160	30	-2.59	0.71	24
ALLEN	147	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.420	30	*****	0.82	16
ARDMORE	292	8	65.7	30	3.5	90	19	32	8	70	-64	91	41	0.350	30	-2.82	0.25	23
ATOKA DAM	394	8	62.4	30	1.0	85	28	27	10	129	-25	51	7	0.611	30	-3.55	0.19	24
BOKCHITO	917	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.750	30	*****	0.50	19
CANEY	1437	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.930	30	*****	0.31	7
CENTRAHOMA	1648	8	61.9	30	*****	84	14	28	9	132	*****	38	*****	0.950	30	*****	0.55	24
CHICKASAW	1745	8	62.6	30	1.9	89	30	25	9	132	-34	61	24	2.470	30	-1.13	1.23	15
COLEMAN	2011	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.000	30	*****	0.00	30
COMANCHE	2054	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.803	30	*****	1.00	24
DAISY	2354	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.130	30	*****	0.52	20
DUNCAN	2660	8	62.8	27	*****	88	28	32	9	115	*****	56	*****	0.780	30	-2.61	0.34	16
DURANT	2678	8	63.6	28	*****	85	28	28	10	83	*****	45	*****	0.373	30	-3.75	0.25	24
ELMORE CITY	2872	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.850	30	*****	1.37	24
GRADY	3688	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.400	30	*****	0.55	16
HEALDTON	4001	8	62.5	30	1.2	88	28	28	9	123	-34	49	4	1.451	30	-1.84	1.20	16
HENNEPIN	4052	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.740	30	*****	1.37	24
KETCHUM RAN	4780	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.980	30	*****	0.24	23
KINGSTON	4865	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.400	30	*****	0.20	7
LEHIGH	5108	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.253	30	*****	0.07	19
LINDSAY	5216	8	61.1	30	1.3	87	27	26	9	169	-23	52	16	0.880	30	-2.66	0.34	15
LOCO	5247	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.890	30	*****	0.52	24
MADILL	5468	8	64.2	29	3.1	87	28	31	9	89	-64	65	29	0.260	30	-3.27	0.13	24
MARIETTA 5 SW	5563	8	61.7	30	0.1	89	20	25	9	139	-6	40	0	0.360	30	-2.97	0.20	6
MARLOW	5581	8	65.8	30	*****	89	27	25	9	83	*****	106	*****	0.870	30	*****	0.31	16
MC GEE CREEK	5713	8	63.8	30	2.3	86	15	32	9	91	-51	56	19	1.180	30	-3.44	0.54	20
PAULS VALLEY	6926	8	61.6	30	1.4	87	28	25	9	153	-28	51	15	1.090	30	-2.31	0.65	24
PONTOTOC	7214	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.630	30	*****	1.00	5
TISHOMINGO	8884	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.300	30	*****	0.20	23
TUSSY	9032	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.461	30	*****	2.06	25
WAURIKA	9395	8	64.8	30	0.8	90	27	29	9	100	-5	93	23	1.193	30	-1.70	0.90	23

APRIL 2003 SUMMARY FOR SOUTHEAST CLIMATE DIVISION (CD9)

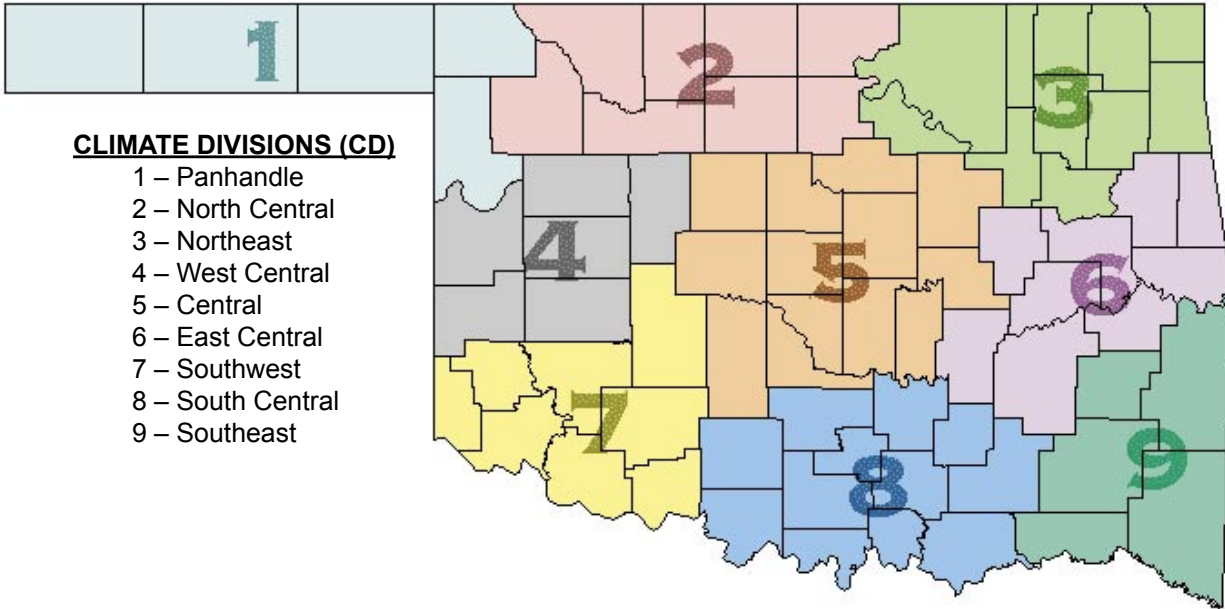
NAME	ID	CD	MEAN				DEV				HEAT				DEV				COOL				DEV			
			TEMP	NUM	FROM	MAX	FROM	MAX	TEMP	DAY	MIN	TEMP	DAY	DEG	FROM	DEG	FROM	DEG	FROM	TOT	NUM	FROM	MAX	FROM	MAX	FROM
BATTIEST	567	9	58.0	30	0.3	85	18	22	8	217	-19	8	-9	2,905	30	-2.08	0.84	23								
BENGAL	670	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2,290	30	*****	1.52	20								
BROKEN BOW	1162	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2,010	30	*****	1.34	24								
CARTER TWR	1544	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1,050	30	*****	0.58	5								
HUGO	4384	9	64.3	30	2.8	84	24	30	9	86	-53	65	32	1,060	30	-2.82	0.63	6								
IDABEL	4451	9	64.8	30	3.2	89	19	36	9	82	-62	76	36	1,830	30	-2.51	1.00	24								
PAGE	6842	9	61.2	30	*****	86	19	26	10	174	*****	59	*****	2,510	30	*****	0.88	24								
SMITHVILLE	8285	9	60.2	28	*****	88	19	25	10	160	*****	26	*****	2,415	30	-2.41	1.38	24								
SPIRO	8416	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2,010	30	*****	0.93	24								
TUSKAHOMA	9023	9	63.8	30	2.1	86	18	27	10	116	-26	80	38	2,290	30	-2.51	1.42	7								
VALLIANT	9118	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1,600	30	*****	0.97	24								
WILBURTON	9634	9	62.3	30	1.1	87	18	29	1	142	-6	60	27	1,020	30	-3.72	0.87	19								
WISTER	9724	9	62.8	30	*****	91	30	28	11	141	*****	74	*****	1,650	30	*****	0.72	25								

APRIL 2003 CLIMATE DIVISION SUMMARY

NAME	CD	MEAN				DEV				HEAT				DEV				COOL				DEV				
		TEMP	NUM	FROM	MAX	FROM	MAX	TEMP	DAY	MIN	TEMP	DAY	DEG	FROM	DEG	FROM	DEG	FROM	TOT	NUM	FROM	MAX	FROM	MAX	FROM	MAX
PANHANDLE	1	57.9	7	2.5	94	15	19	9	244	-66	29	11	1,200	10	-0.55	1.47	16									
NORTH CENTRAL	2	58.9	11	1.9	91	2	17	9	223	-43	40	16	2,730	23	-0.24	2.25	19									
NORTHEAST	3	61.1	10	1.4	88	30	23	9	174	-19	58	24	2,230	20	-1.77	2.58	19									
WEST CENTRAL	4	59.7	7	1.9	92	2	20	9	196	-48	40	13	2,320	16	-0.27	3.21	16									
CENTRAL	5	60.5	13	1.0	88	15	20	8	178	-21	45	10	1,970	33	-1.44	2.20	19									
EAST CENTRAL	6	60.9	6	1.0	88	19	25	10	172	-9	49	21	1,680	22	-2.62	2.04	20									
SOUTHWEST	7	62.1	10	2.1	95	27	23	9	145	-45	58	18	1,990	21	-0.63	1.91	19									
SOUTH CENTRAL	8	63.1	13	1.9	90	27	25	9	118	-37	61	19	1,060	31	-2.54	2.06	25									
SOUTHEAST	9	62.4	7	2.2	91	30	22	8	137	-36	60	31	1,900	13	-2.70	1.52	20									

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 APRIL 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	60.1	90	1	22	9	198	50	1.14	.43	15	Goodwell	56.2	87	14	23	8	271	8	.55	.37	23
Beaver	58.9	95	14	21	9	227	44	1.93	1.37	15	Hooker	57.9	97	14	20	9	238	25	.90	.45	15
Boise City	53.6	85	14	22	7	344	2	.75	.35	23	Kenton	54.4	85	14	25	8	323	3	.42	.24	23
Buffalo	58.7	92	2	23	9	237	48	1.01	.68	15	Slapout	59.0	94	14	25	9	216	37	2.25	1.23	23
NORTH CENTRAL																					
Blackwell	59.2	85	14	23	9	210	37	4.34	1.78	19	Medford	58.9	84	30	24	9	216	34	2.72	1.12	23
Breckenridge	59.2	84	30	27	9	208	35	2.16	1.02	19	Medkirk	*****	***	***	***	***	*****	*****	4.74	2.10	19
Cherokee	58.7	87	30	23	9	225	35	3.57	1.58	23	Red Rock	60.2	86	14	25	9	****	*****	1.24	.47	5
Fairview	59.8	87	27	24	9	206	49	3.02	1.37	19	Seiling	59.4	87	1	19	9	219	49	*****	*****	***
Freedom	59.2	88	2	23	9	223	48	1.65	1.02	19	Woodward	60.2	90	1	26	9	204	59	1.40	.74	19
Lahoma	58.2	85	30	25	9	224	21	2.40	1.06	23	Alva	58.7	88	30	21	9	234	44	2.56	.88	19
May Ranch	58.9	90	2	27	9	231	47	2.22	1.37	19											
NORTHEAST																					
Bixby	60.8	87	30	28	9	173	48	1.48	.75	23	Pryor	59.2	86	18	26	10	213	38	2.63	1.35	6
Burbank	61.4	86	18	27	9	****	****	2.47	1.88	19	Skiatook	60.6	84	18	28	8	186	54	1.92	.65	16
Copan	59.6	85	18	27	9	208	45	2.85	.67	6	Vinita	58.3	84	18	26	10	228	28	2.37	1.30	6
Foraker	59.5	86	18	26	9	210	46	2.82	1.14	19	Wynona	60.1	86	13	28	9	197	51	1.98	.61	6
Jay	60.2	85	18	26	10	****	****	1.62	1.00	23	Porter	61.6	87	18	29	9	152	52	1.41	.66	23
Miami	59.0	84	18	28	10	224	43	3.79	1.82	6	Inola	59.9	86	18	27	10	191	38	1.43	.66	23
Nowata	58.8	85	18	25	10	224	39	1.95	.60	23	Claremore	61.1	87	18	28	9	174	57	1.95	.91	6
Pawnee	60.9	87	30	27	9	180	58	1.92	.87	19											
WEST CENTRAL																					
Bessie	61.1	89	27	28	9	169	52	1.78	1.04	19	Putnam	59.5	86	27	24	9	208	42	3.48	1.46	23
Butler	60.9	91	1	22	9	182	58	3.02	1.13	19	Retrop	61.2	90	27	27	9	167	53	2.37	1.16	19
Camargo	58.9	90	1	21	9	222	40	2.41	1.25	15	Watonga	59.4	84	30	28	9	208	41	2.82	1.06	23
Cheyenne	61.1	89	1	30	7	170	52	2.25	1.30	15	Weatherford	59.3	85	27	26	9	205	34	2.64	.96	23
Erick	60.6	90	30	22	9	180	48	2.08	.77	15											
CENTRAL																					
Bowlegs	61.2	86	19	25	9	162	47	1.88	1.69	23	Oilton	59.8	85	30	23	9	197	42	1.96	.88	6
Bristow	59.9	86	30	26	9	194	43	1.89	1.07	6	Okemah	60.9	84	30	28	10	163	39	1.45	.94	23
Chandler	61.3	85	30	28	9	163	51	1.59	.80	6	Perkins	61.0	87	14	28	9	175	54	1.72	.66	15
Chickasha	60.5	89	27	26	9	****	****	2.26	.75	6	Shawnee	61.3	85	27	28	9	157	47	2.16	1.47	6
El Reno	59.4	87	27	23	9	207	40	1.97	.98	19	Spencer	61.6	86	27	26	9	161	60	1.60	.51	15
Guthrie	61.6	87	27	27	9	165	63	2.35	1.21	15	Stillwater	60.7	87	18	26	9	187	57	1.40	.52	19
Kingfisher	59.2	85	27	25	9	210	36	3.07	1.81	19	Washington	62.0	87	27	30	9	135	45	1.05	.41	6
Marena	61.5	86	27	28	9	****	****	1.48	.50	15	Ninnekah	61.9	88	27	28	9	****	****	2.20	.64	6
Marshall	60.1	86	27	24	9	195	48	1.89	.98	19	Acme	62.5	89	27	23	9	142	67	.74	.37	15
Minco	60.4	86	27	28	9	176	39	3.34	1.45	6	Norman	62.0	87	27	28	9	149	58	3.10	1.53	6
EAST CENTRAL																					
Calvin	62.4	85	14	24	10	****	****	1.43	.79	23	Stigler	61.5	87	18	28	10	153	49	2.44	1.95	19
Cookson	60.1	86	18	26	10	181	35	2.31	1.15	23	Stuart	62.3	84	30	27	9	****	****	1.50	.60	19
Eufaula	61.6	85	18	30	9	151	50	1.56	.62	23	Tahlequah	59.9	85	18	26	10	190	36	*****	*****	***
Haskell	60.4	86	18	26	9	172	33	1.41	.66	23	Webbers Falls	62.6	90	18	30	10	139	66	1.79	.93	19
McAlester	62.4	85	18	26	9	138	60	.86	.60	19	Westville	59.6	84	18	26	10	197	34	1.85	.83	23
Okmulgee	60.8	86	30	26	9	173	47	1.81	.65	23	Hectorville	61.8	86	30	30	9	153	57	1.27	.60	6
Sallisaw	61.7	87	18	28	10	148	49	2.68	1.51	19											
SOUTHWEST																					
Altus	63.4	96	27	24	9	125	78	2.52	1.95	19	Medicine Park	63.3	90	27	32	9	****	****	1.86	1.01	19
Fort Cobb	61.6	91	27	26	9	161	60	*****	*****	***	Tipton	63.5	95	27	23	9	****	****	1.63	.64	19
Hinton	59.7	86	27	25	9	198	39	1.89	.86	19	Walters	64.1	93	27	27	9	106	78	.74	.30	19
Hobart	60.5	88	27	24	9	179	44	2.57	1.27	15	Apache	60.7	87	27	27	9	170	41	2.27	.73	19
Hollis	62.1	92	27	23	9	148	63	1.50	.58	19	Grandfield	63.1	94	27	26	9	****	****	1.15	.40	23
Mangum	62.0	93	27	22	9	150	59	1.92	1.02	19											
SOUTH CENTRAL																					
Ada	62.5	87	19	27	9	134	59	1.06	.61	23	Pauls Valley	63.1	87	27	28	9	119	63	1.40	.85	23
Ardmore	64.0	89	19	29	9	105	74	.46	.33	23	Ringling	63.2	88	27	28	9	116	63	.93	.71	15
Burneyville	63.5	90	19	23	9	122	76	.40	.19	15	Sulphur	62.4	86	19	25	9	132	53	1.67	.75	23
Byars	62.6	86	19	29	9	129	57	1.37	1.04	23	Tishomingo	62.4	84	13	28	9	123	46	1.10	.86	23
Centrahoma	61.9	84	30	24	9	144	49	.99	.70	23	Waurika	64.1	90	27	28	9	102	74	1.68	1.21	23
Durant	64.5	85	30	31	9	95	80	.54	.35	19	Vanoss	62.6	88	19	27	9	134	62	.98	.64	23
Ketchum Ranch	63.2	87	27	29	9	116	61	.87	.38	23	Bee	62.9	83	30	28	9	****	****	.34	.13	19
Lane	63.1	83	30	28	10	118	60	1.27	.80	19	Newport	*****	***	***	***	***	*****	*****	1.14	.88	15
Madill	63.7	88	19	27	9	109	71	.48	.31	23											
SOUTHEAST																					
Antlers	62.6	85	13	23	10	138	65	.66	.43	19	Mt Herman	62.2	83	18	29	10	124	39	3.04	1.03	23
Clayton	63.1	86	18	29	10	119	63	1.67	.79	19	Talihina	62.9	87	18	30	10	125	62	2.01	1.15	6
Cloudy	62.5	85	18	29	9	121	45	1.11	.55	6	Wilburton	*****	***	***	***	***	*****	*****	*****	*****	***
Hugo	63.8	84	18	30	9	97	62	.96	.30	4	Wister	61.0	87	18	26	10	162	42	2.13	.92	19
Idabel	62.9	86	28	31	10	109	47	1.71	.97	23	Broken Bow	*****	***	***	***	***	*****	*****	*****	*****	***

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

CD	MAX TEMP	DATE	LOCATION	MIN TEMP	DATE	LOCATION	24-HOUR PRECIP	DATE	LOCATION	MONTHLY PRECIP	LOCATION
1	94	15	BEAVER	19	9	GAGE	1.47	16	BEAVER	2.93	GAGE
2	91	3	FT SUPPLY	17	9	FT SUPPLY	2.25	19	PONCA CITY	5.54	NEWKIRK
	91	4	FT SUPPLY								
	91	2	FREEDOM								
3	88	14	BARTLESVILLE	23	12	KANSAS	2.58	19	BURBANK	4.22	BURBANK
	88	18	BARTLESVILLE	23	9	RALSTON					
	88	30	BARTLESVILLE								
	88	1	BIXBY								
	88	2	BIXBY								
4	92	2	ELK CITY	20	9	TALOGA	3.21	16	REYDON	4.07	TALOGA
5	88	27	CHICKASHA EX	20	8	HENNESSEY	2.20	19	KINGFISHER	3.39	KINGFISHER
	88	15	STILLWATER								
6	88	18	CHECOTAH	25	10	STILWELL	2.04	20	SALLISAW	3.30	SALLISAW
	88	18	MCCURTAIN								
	88	19	SALLISAW								
	88	19	WEBBERS FALL								
7	95	27	FREDERICK	23	9	ANADARKO	1.91	19	ALTUS	3.62	WICHITA MT
				23	10	ANADARKO					
				23	9	HOLLIS					
8	90	19	ARDMORE	25	9	CHICKASAW	2.06	25	TUSSY	2.63	PONTOTOC
	90	27	WAURIKA			MARIETTA					
						MARLOW					
						PAULS VALLEY					
9	91	30	WISTER	22	8	BATTIEST	1.52	20	BENGAL	2.90	BATTIEST

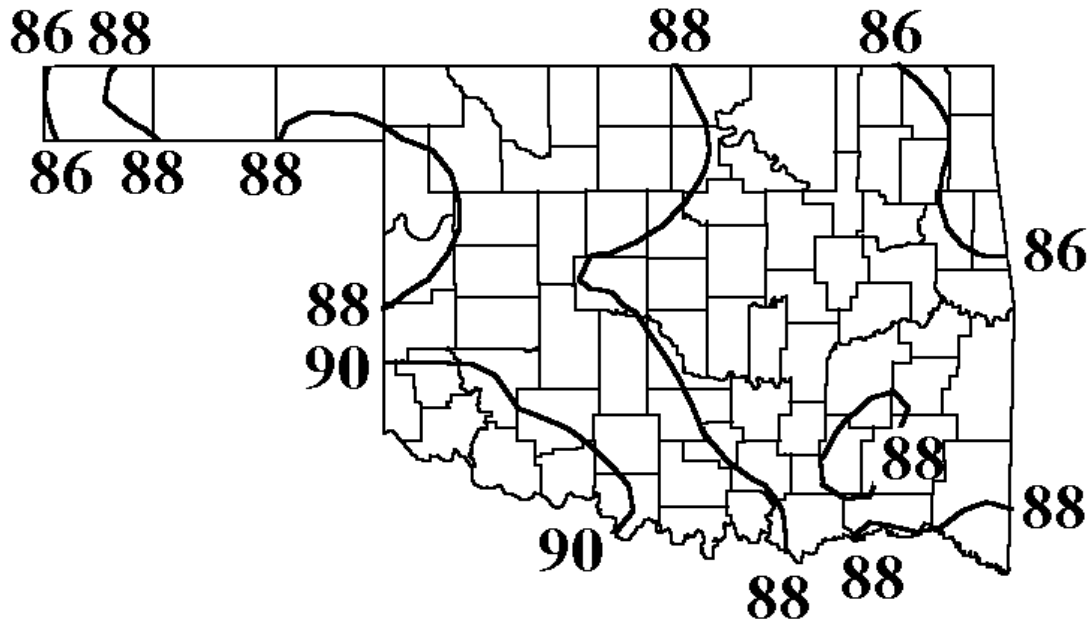
TABLE OF 2002/2003 COMPARISONS

Station	APRIL Temperature (F)		APRIL Precipitation (in.)	
	2002	2003	2002	2003
Arnett	57.7	57.8	2.39	1.54
Enid	60.3	60.1	2.55	2.37
Tulsa	62.4	61.9	3.61	2.16
Elk City	58.8	60.1	3.78	2.88
Oklahoma City	61.0	59.9	5.10	1.56
McAlester	63.5	62.5	5.79	0.75
Altus Irr Station	62.4	62.0	4.51	2.57
Ardmore	65.4	65.7	5.75	0.35
Idabel	65.4	64.8	2.94	1.83

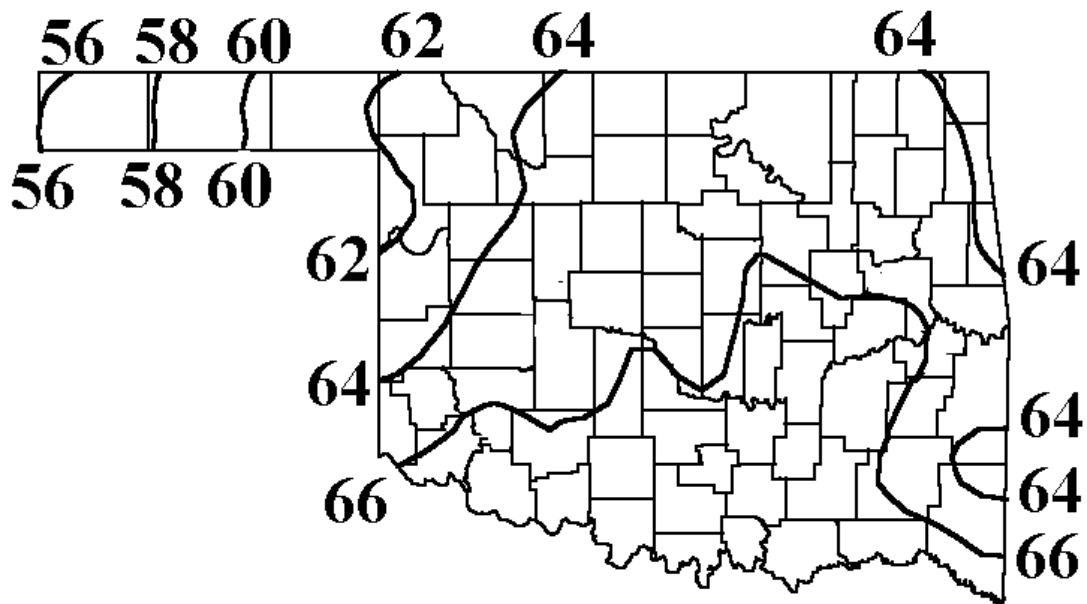
APRIL 2003 STATEWIDE EXTREMES

VARIABLE	STATION	DIVISION	OBSERVATION	DATE
Minimum temperature (F)	Frederick	7	95	27
Maximum temperature (F)	Ft. Supply	2	17	9
Maximum 24-hour Precipitation	Reydon	4	3.21	16

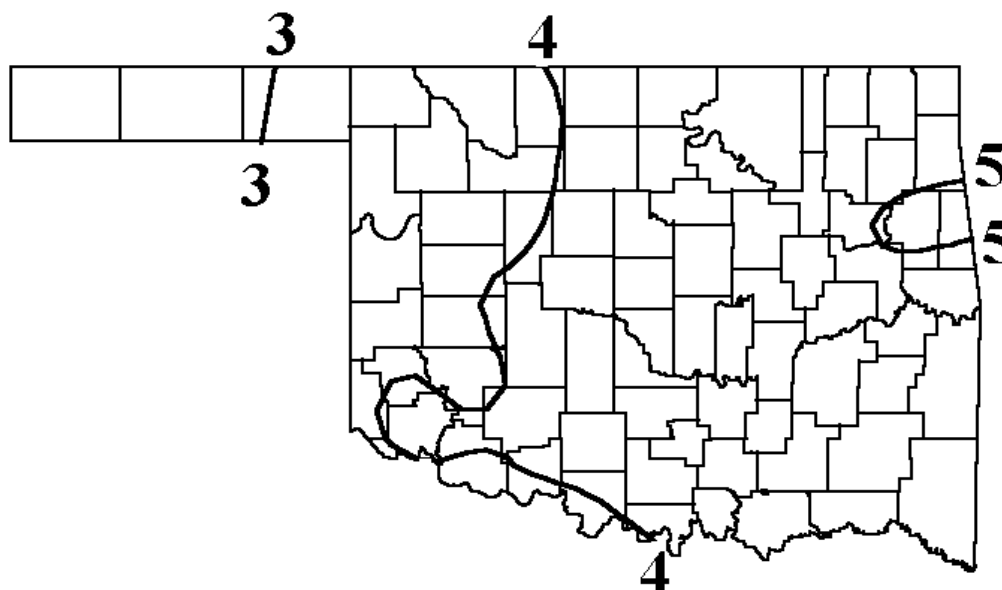
JUNE NORMAL DAILY MAXIMUM TEMPERATURE (°F)



JUNE NORMAL DAILY MINIMUM TEMPERATURE (°F)



JUNE NORMAL MONTHLY PRECIPITATION (INCHES)



JUNE TORNADO STATISTICS

The most tornadoes reported in **JUNE** for Oklahoma was **(28)** in **1995**.

The average number of tornadoes in **JUNE** for Oklahoma is **(9)**.

OUTLOOK FOR JUNE 2003 THROUGH AUGUST 2003

BASED ON SEASONAL OUTLOOK PROVIDED BY THE CLIMATE PREDICTION CENTER

Temperature: Near Normal Temperature Statewide

Precipitation: Near Normal Precipitation Statewide

OKLAHOMA CITY CLIMATE CALENDAR

JUNE

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	73	83		99	1998	58	1903	62		75	1943	48	1982	0.17		3.37	1962
2	73	84		105	1998	56	1919	63		74	1980	46	1917	0.17		1.66	1973
3	73	84		98	1998	64	1919	63		75	1925	49	1919	0.17		6.75	1932
4	74	84		95	1913	62	1928	63		75	1911	47	1954	0.17		3.90	1904
5	74	84		99	1917	66	1892	64		75	1980	48	1919	0.17		1.48	1927
6	74	85		102	1911	69	1983	64		75	1990	50	1998	0.16		3.01	1941
7	75	85		100	1911	66	1891	64		78	1980	51	1983	0.16		1.44	1908
8	75	85		100	1988	64	1913	64		76	1984	52	1915	0.16		2.60	1974
9	75	86		100	1933	60	1913	65		77	1953	53	1996	0.16		2.56	1995
10	75	86		99	1934	68	1955	65		76	1953	50	1955	0.16		4.48	1945
11	76	86		100	1953	68	1898	65		75	1953	51	1955	0.15		1.61	1951
12	76	86		104	1953	72	1903	65		78	1958	50	1896	0.15		4.74	1944
13	76	87		101	1924	70	1927	66		78	1958	52	1906	0.15		4.56	1989
14	77	87		106	1953	63	1927	66		78	1953	51	1947	0.15		3.95	1930
15	77	87		105	1953	71	1908	66		79	1953	55	1969	0.15		3.01	1930
16	77	88		106	1911	70	1961	66		77	1953	50	1917	0.14		3.59	1955
17	77	88		102	1924	68	2000	67		78	1990	53	1912	0.14		1.85	1975
18	77	88		101	1936	68	1912	67		78	1924	53	1912	0.14		0.93	1957
19	78	88		101	1953	70	1920	67		80	1953	55	1926	0.14		1.68	1987
20	78	89		105	1953	73	1905	67		80	1998	51	1976	0.13		2.28	1958
21	78	89		104	1953	69	1902	68		79	1953	56	1906	0.13		3.28	1948
22	78	89		107	1936	73	1912	68		79	1998	50	1902	0.13		2.38	1957
23	79	89		101	1934	68	1921	68		77	1934	58	1958	0.13		2.79	1908
24	79	90		104	1911	74	1909	68		78	1953	54	1957	0.13		2.06	1948
25	79	90		105	1980	68	1967	68		82	1911	51	1974	0.12		2.29	1960
26	79	90		104	1918	69	1904	68		81	1933	50	1958	0.12		1.70	1985
27	79	90		103	1994	75	1904	69		79	1947	52	1974	0.12		2.19	1907
28	80	90		105	1980	78	2001	69		78	1986	56	1974	0.12		3.10	1988
29	80	91		103	1925	76	1908	69		78	1998	54	1923	0.11		2.00	1987
30	80	91		102	1925	73	1923	69		80	1980	58	1923	0.11		2.33	1981
MONTH	76.7	87.3		107	1936	56	1919	66.1		82	1911	46	1917	4.31		6.75	1932

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

TULSA CLIMATE CALENDAR

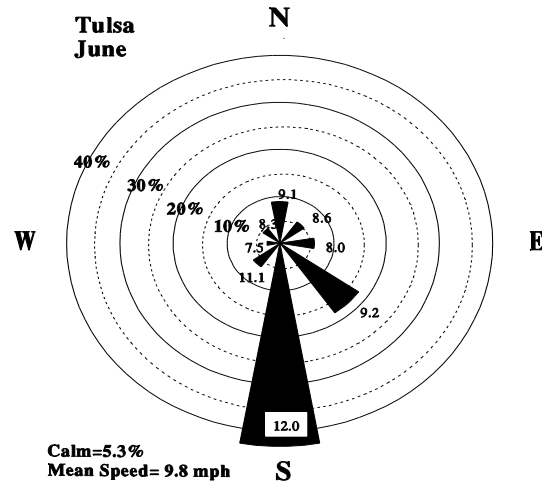
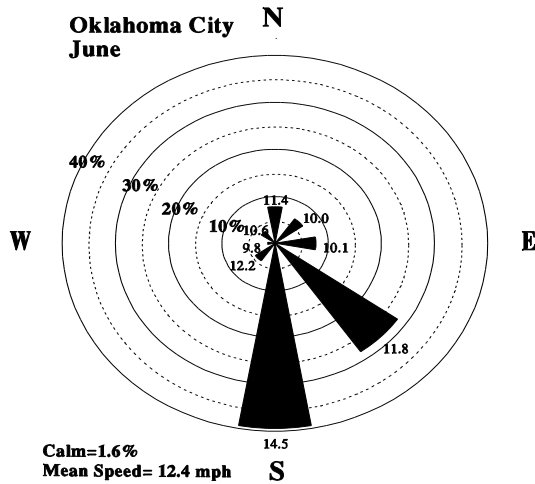
JUNE

The data on this calendar are for Tulsa, Oklahoma.
 Normal values are calculated for the period 1971-2000.
 Temperature extremes are for the period 1905-2001.
 Precipitation extremes are for the period 1888-2001.

Day	Avg. Temp.	Ave. High	Record High	Lowest Max	Year	Ave. Low	2003	Highest Min.	Year	Record Low	Year	Avg. Precip.	2003	Greatest Precip.	Year
1	74	84	98	69	1934	64		77	1980	51	1982	0.18		2.83	1962
2	74	84	102	59	1911	64		76	1980	49	1907	0.17		2.14	1973
3	75	84	101	58	1911	65		77	1925	52	1946	0.17		2.29	1926
4	75	85	102	66	1911	65		76	2001	49	1954	0.17		2.87	1985
5	75	85	102	70	1911	65		78	1980	49	1919	0.17		3.11	1952
6	75	85	106	73	1911	65		76	1980	50	2000	0.17		2.65	1974
7	76	86	100	69	1911	66		79	1980	51	1935	0.16		5.80	1919
8	76	86	104	67	1911	66		79	1984	52	1915	0.16		4.90	1974
9	76	86	105	60	1911	66		79	1981	56	1996	0.16		4.88	1941
10	76	86	108	70	1911	66		80	1911	54	1955	0.16		2.10	1904
11	77	87	100	69	1924	67		80	1911	51	1955	0.16		2.09	1945
12	77	87	99	73	1953	67		77	1958	50	1913	0.15		1.63	1944
13	77	87	101	69	1924	67		80	1958	52	1985	0.15		0.94	1927
14	77	87	107	69	1911	67		78	1991	51	1942	0.15		2.58	1961
15	78	88	102	71	1924	68		78	1911	52	1933	0.15		2.66	1981
16	78	88	106	73	1911	68		78	1953	50	1917	0.15		1.26	1943
17	78	88	102	68	1925	68		79	1932	52	1960	0.15		3.97	1980
18	78	88	104	70	1918	68		80	1953	54	1912	0.14		1.50	1978
19	79	89	106	71	1918	69		80	1953	51	1912	0.14		2.00	1905
20	79	89	107	77	1918	69		82	1998	53	1976	0.14		1.45	1978
21	79	89	107	73	1936	69		80	1934	54	1961	0.14		4.37	1948
22	79	89	106	75	1936	69		78	1936	56	1935	0.14		1.67	1985
23	80	90	103	69	1934	70		81	1925	57	1920	0.13		2.79	1995
24	80	90	104	72	1933	70		80	1980	55	1974	0.13		5.30	1921
25	80	90	105	70	1933	70		80	1980	52	1974	0.13		1.98	1967
26	80	90	105	74	1918	70		80	1998	53	1974	0.13		2.77	1948
27	80	91	102	77	1980	70		80	1980	53	1968	0.13		2.57	1904
28	81	91	106	77	1925	71		80	1980	58	1985	0.12		2.75	1977
29	81	91	105	78	1925	71		80	1980	57	1923	0.12		1.99	1995
30	81	91	107	76	1925	71		80	1980	57	1943	0.12		2.90	1942
MONTH	77.7	87.7	108	58	1911	67.7		82	1998	49	1907	0.15		5.80	1919

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

JUNE WIND ROSES



June 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.

JUNE SUNRISE/SUNSET TIMES FOR 2003

ALL TIMES ARE CENTRAL STANDARD TIME

OKLAHOMA CITY

DATE	SUNRISE	SUNSET
6/1/03	5:16 AM	7:40 PM
6/2/03	5:16 AM	7:41 PM
6/3/03	5:16 AM	7:41 PM
6/4/03	5:15 AM	7:42 PM
6/5/03	5:15 AM	7:42 PM
6/6/03	5:15 AM	7:43 PM
6/7/03	5:15 AM	7:43 PM
6/8/03	5:15 AM	7:44 PM
6/9/03	5:14 AM	7:44 PM
6/10/03	5:14 AM	7:45 PM
6/11/03	5:14 AM	7:45 PM
6/12/03	5:14 AM	7:46 PM
6/13/03	5:14 AM	7:46 PM
6/14/03	5:14 AM	7:47 PM
6/15/03	5:14 AM	7:47 PM
6/16/03	5:14 AM	7:47 PM
6/17/03	5:14 AM	7:48 PM
6/18/03	5:15 AM	7:48 PM
6/19/03	5:15 AM	7:48 PM
6/20/03	5:15 AM	7:48 PM
6/21/03	5:15 AM	7:49 PM
6/22/03	5:15 AM	7:49 PM
6/23/03	5:16 AM	7:49 PM
6/24/03	5:16 AM	7:49 PM
6/25/03	5:16 AM	7:49 PM
6/26/03	5:16 AM	7:49 PM
6/27/03	5:17 AM	7:49 PM
6/28/03	5:17 AM	7:49 PM
6/29/03	5:18 AM	7:49 PM
6/30/03	12:00 AM	7:49 PM

TULSA

DATE	SUNRISE	SUNSET
6/1/03	5:08 AM	7:35 PM
6/2/03	5:08 AM	7:36 PM
6/3/03	5:07 AM	7:37 PM
6/4/03	5:07 AM	7:37 PM
6/5/03	5:07 AM	7:38 PM
6/6/03	5:07 AM	7:38 PM
6/7/03	5:07 AM	7:39 PM
6/8/03	5:06 AM	7:39 PM
6/9/03	5:06 AM	7:40 PM
6/10/03	5:06 AM	7:40 PM
6/11/03	5:06 AM	7:41 PM
6/12/03	5:06 AM	7:41 PM
6/13/03	5:06 AM	7:42 PM
6/14/03	5:06 AM	7:42 PM
6/15/03	5:06 AM	7:42 PM
6/16/03	5:06 AM	7:43 PM
6/17/03	5:06 AM	7:43 PM
6/18/03	5:06 AM	7:43 PM
6/19/03	5:06 AM	7:44 PM
6/20/03	5:07 AM	7:44 PM
6/21/03	5:07 AM	7:44 PM
6/22/03	5:07 AM	7:44 PM
6/23/03	5:07 AM	7:45 PM
6/24/03	5:08 AM	7:45 PM
6/25/03	5:08 AM	7:45 PM
6/26/03	5:08 AM	7:45 PM
6/27/03	5:09 AM	7:45 PM
6/28/03	5:09 AM	7:45 PM
6/29/03	5:09 AM	7:45 PM
6/30/03	5:10 AM	7:45 PM

ADD ONE HOUR FOR CENTRAL DAYLIGHT TIME

CONTACT INFORMATION



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