

# OKLAHOMA MONTHLY CLIMATE SUMMARY

# MARCH 2002

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**Oklahoma Climatological Survey**

## MONTHLY SUMMARY FOR MARCH 2002

### **March 2002**

*Statewide average temperature = 46.1° F*

*Statewide average rainfall = 2.58 inches*

Oklahoma continued to experience the climatological version of “the rich get richer, and the poor get poorer” during March. Even as the northwestern one-third of the state continued in the throes of a severe drought, whose beginnings can be traced back to June 2001, the southeastern one-third impressively soared past its normal March rainfall total. Combine this precipitation incongruity with below normal temperatures statewide, and the end result is a decidedly bleak month, regardless of the location.

The statewide-averaged temperature of 46.1 degrees was 4.9 degrees less than normal, establishing the month as the 18<sup>th</sup> coldest March in the 111 years of record. The cold March weather ensured that the year-to-date statewide-averaged temperature would fall short of normal, although not significantly. The January-March statewide-averaged temperature of 42.3 degrees was 1.1 degrees below normal, making this the 39<sup>th</sup> coldest such period on record. The precipitation surplus in the southeast managed to bring the state’s composite total to near-normal with 2.58 inches for the month, 0.48 inches below normal, making this the 44<sup>th</sup> wettest March on record. The statewide-averaged monthly precipitation of 21.18 inches for June 2001 through March 2002 is still 6.94 inches below normal, the 22<sup>nd</sup> driest such period since record keeping began in 1892.

### **March Normals**

*Statewide average temperature = 51.0° F*

*Statewide average rainfall = 3.06 inches*

The magnitude of the regional precipitation discrepancy is quite striking. The panhandle climate division’s precipitation total barely wet the raingage with 0.05 inches, a scant 3 percent of its established normal for March, ranking this month as the 13<sup>th</sup> driest since record keeping began in 1892. Four of the climate division’s National Weather Service cooperative observing stations reported no precipitation for the month: Buffalo (Harper County), Turpin (Beaver), and Goodwell and Guymon (both in Texas County). The maximum daily precipitation amount for that climate division was a scant 0.19 inches, which fell on the 25<sup>th</sup> in Kenton (Cimarron). The other northern and western climate divisions fared almost as poorly. The north- and west-central climate divisions finished the month 20 and 21 percent of the established precipitation normals for the month, while the northeast climate division was only slightly better with 51 percent of normal.

The southeast climate division lies at the opposite end of the spectrum. Its precipitation total of 8.70 inches was nearly double the region’s normal precipitation amount, exceeding normal rainfall by 4.30 inches. The maximum 24-hour rainfall recorded in the state was 5.66 inches on March 19<sup>th</sup> at Antlers (Pushmataha), which is more than the panhandle climate division’s station-average precipitation total of 0.64 inches for the entire month. Other daily rainfall amounts from the same day include: 5.56 inches near Honobia (LeFlore), 5.34 inches at Tuskahoma (Pushmataha), 4.92 inches at Page (LeFlore), and 4.46 inches at Bokchito (Bryan). Antlers’ 8.88 inches in total precipitation was in the middle of the pack within its own climate division, however. In that respect, Idabel (McCurtain) led the entire state with

**(Continued on page 3.)**

10.83 inches of rain, followed by Valliant (McCurtain) with 9.78 inches, and Spiro (LeFlore) and Tuskahoma (Pushmataha) with 9.46 and 9.47 inches, respectively. The east- and south-central climate divisions ended the month with greater than normal precipitation as well, both being 115 percent of normal.

The highest temperature for the month was 92 degrees, recorded at the Altus (Jackson) mesonet site on the 13th, and also reported by the cooperative observer at Erick (Beckham) on the 14<sup>th</sup>. The first week of March was decidedly cold, particularly in northeastern Oklahoma, where sub-zero minimum temperatures were common. Vinita (Craig) wins the prize for the lowest temperature with -4 degrees reported on the 3<sup>rd</sup> and 4<sup>th</sup> days of the month. By the 6<sup>th</sup>, temperatures had rebounded statewide and did not dip below double-digits for the remainder of the month.

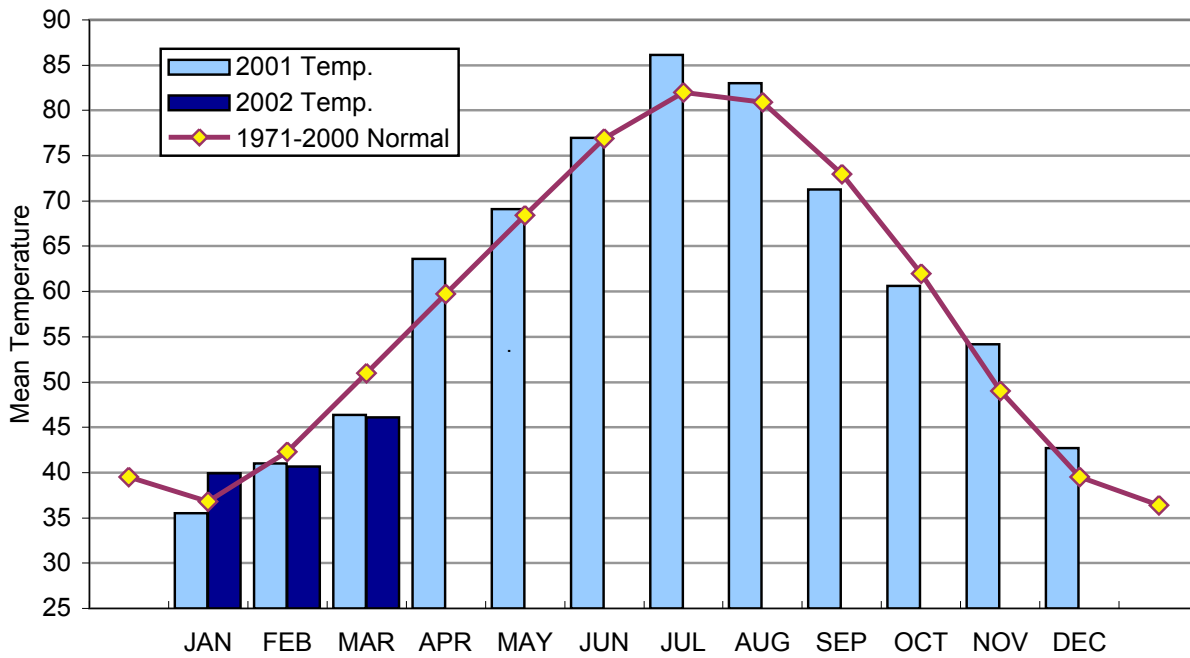
The frigid weather of the first week was associated with the only significant winter storm of the month. A cold front traversed the state the evening of the 1<sup>st</sup>, bringing with it strong winds, snow, and freezing rain. The low temperatures, along with winds gusting up to 40 mph, dropped wind chill values to -15 degrees in some places. The greatest snowfall amounts reported included: 7.25 inches at Spavinaw (Mayes), 6.5 inches at Tulsa (Tulsa), 6 inches at Wagoner (Wagoner) and Vinita (Craig), and some localized reports near Pryor (Mayes) of up to 9 inches. Slippery roads resulted in 9 fatalities and dozens of traffic accidents.

Severe weather made its presence known with three separate bouts of storminess. The first round struck on the evening of the 8<sup>th</sup> and the early-morning hours of the 9<sup>th</sup>, associated with a dryline in western Oklahoma. High winds were the predominate severe indicator, with some tree and minor structural damage being reported in the northeast. Thunderstorms formed in eastern Oklahoma once again on the 15<sup>th</sup> with hail being reported covering the ground near Kinta (Haskell). The final bout of severe weather occurred on the 24<sup>th</sup> and the morning of the 25<sup>th</sup>, generally in central and eastern Oklahoma. Hail up to 1¾ inches in diameter was reported in Moore (Cleveland) and near Lebanon (Marshall), while the Norman (Cleveland) Mesonet site recorded a peak wind gust of 76 mph.

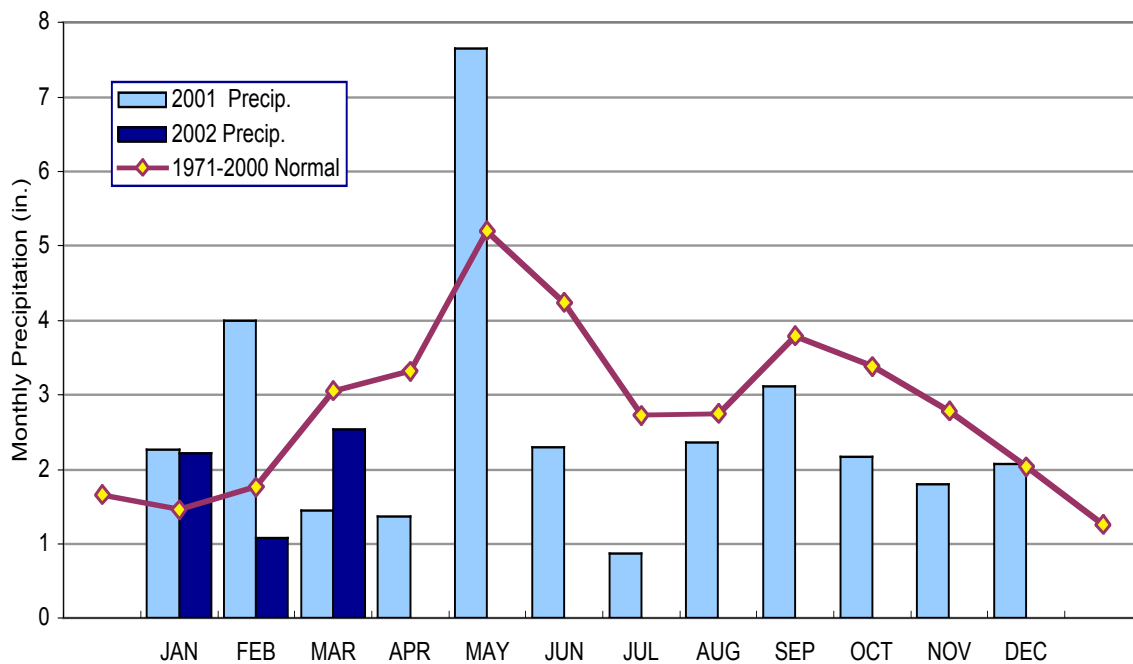
Flooding associated with the heavy rainfall in southeastern Oklahoma on the 19<sup>th</sup> closed numerous roads, particularly in Choctaw, LeFlore, Pittsburg, and Pushmataha counties. State highways were reported under water near Ord and Frogville (both in McCurtain county), and a bridge was washed out seven miles north of Soper (Choctaw).

Gary D. McManus

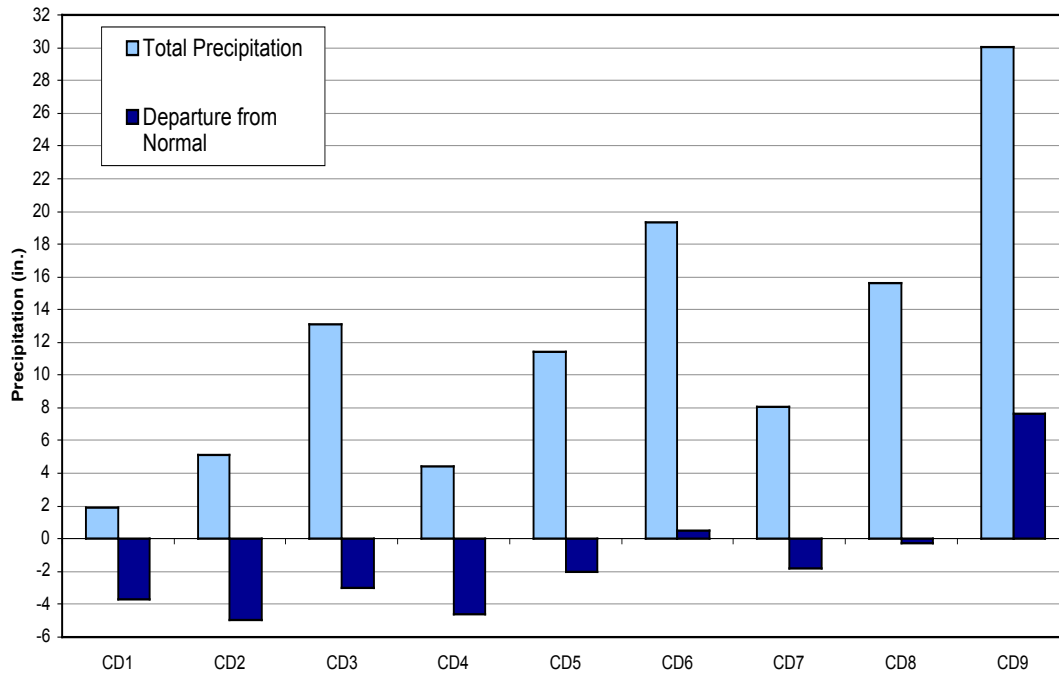
## 2001 AND 2002 STATEWIDE TEMPERATURES - MONTHLY AVERAGES



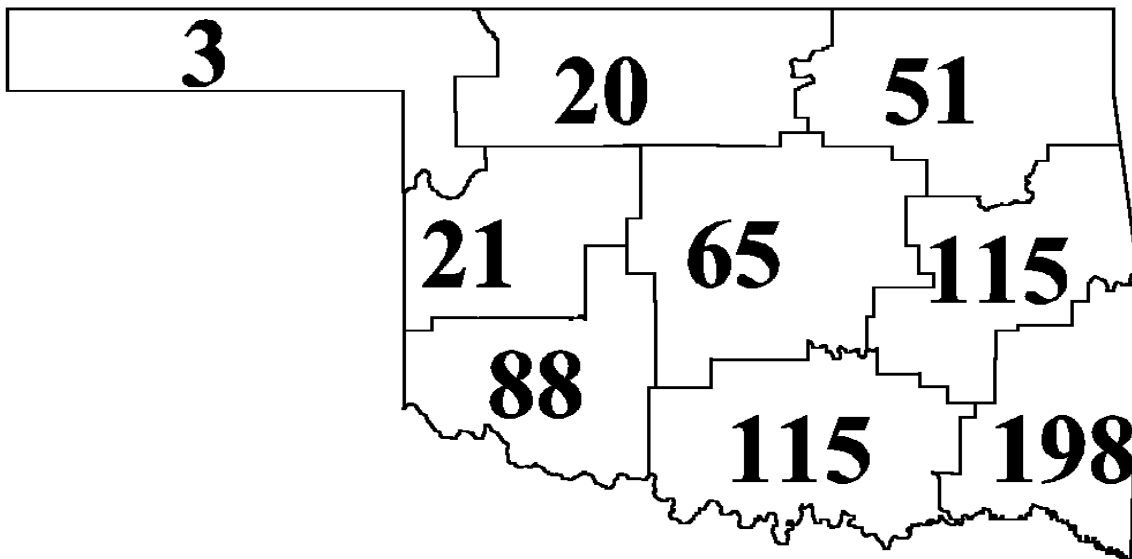
## 2001 AND 2002 STATEWIDE PRECIPITATION - MONTHLY TOTALS



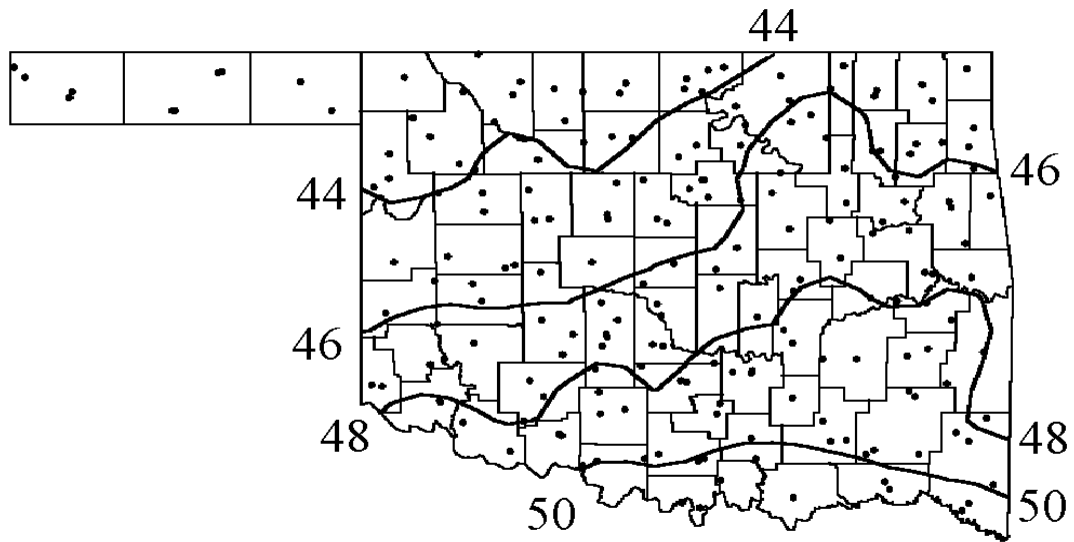
CLIMATE DIVISION AVERAGED PRECIPITATION - OCTOBER 2001 THROUGH MARCH 2002



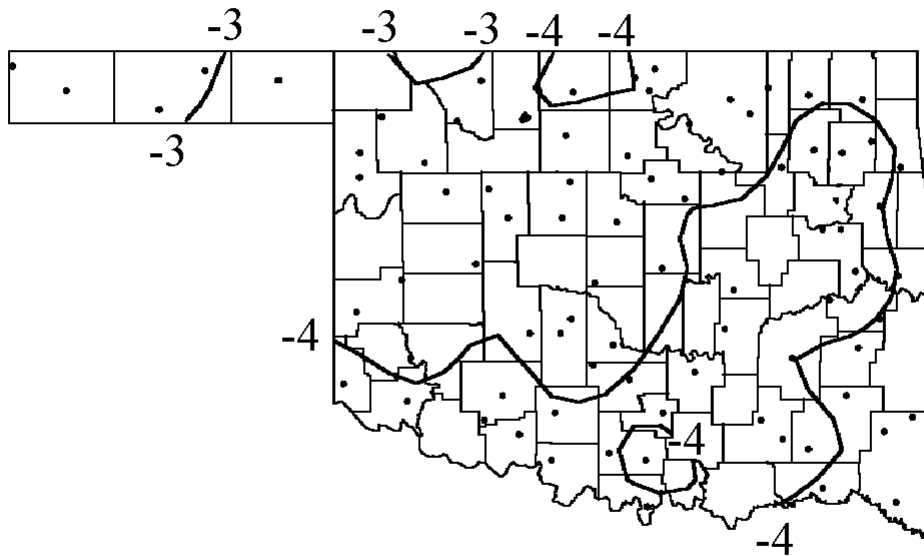
CLIMATE DIVISION PERCENT OF NORMAL PRECIPITATION - MARCH 2002



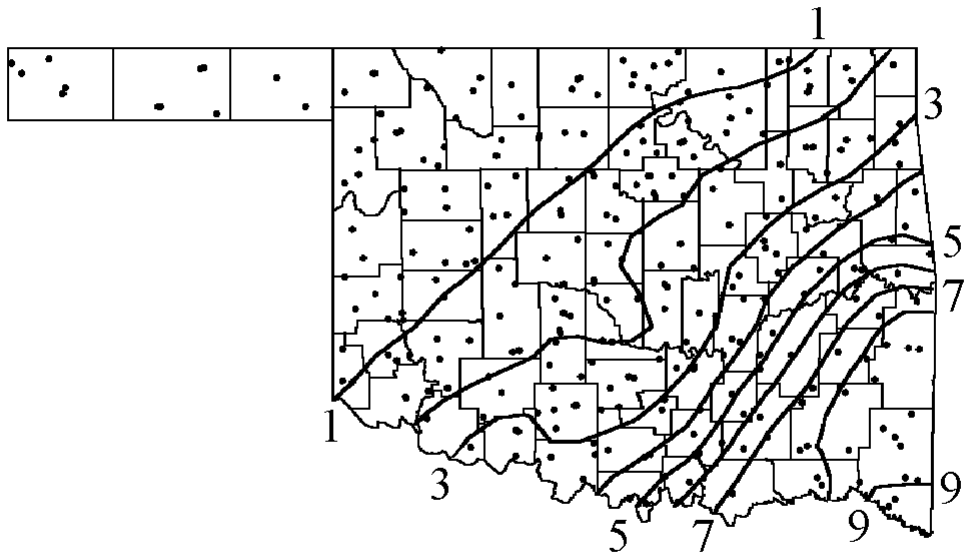
MARCH 2002 AVERAGE MONTHLY TEMPERATURE (°F)



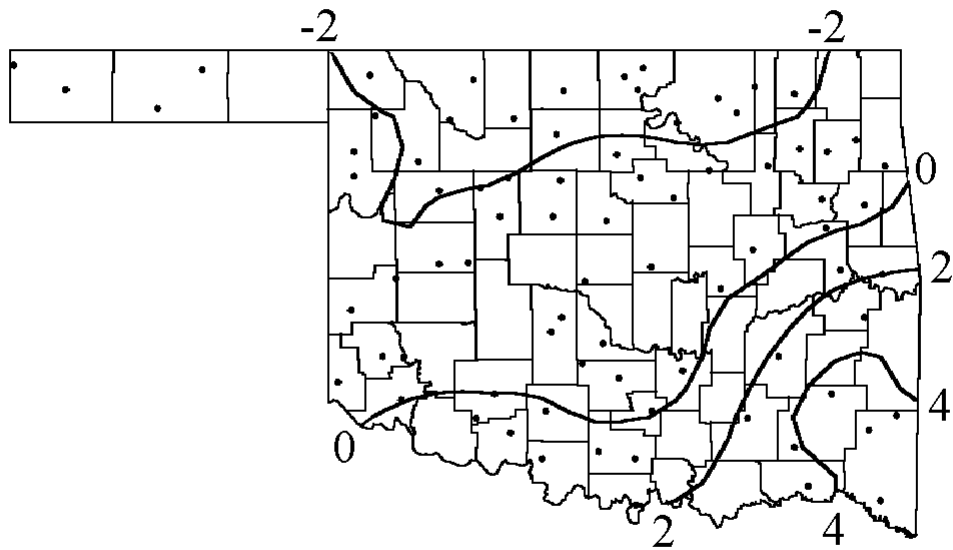
MARCH 2002 DEPARTURE FROM NORMAL TEMPERATURE (°F)



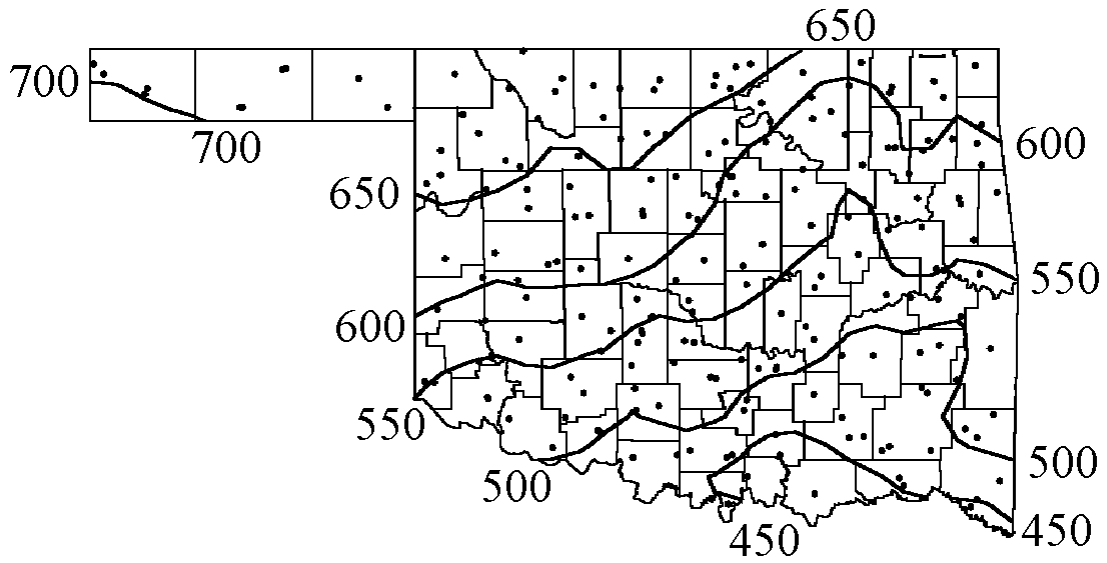
MARCH 2002 PRECIPITATION (INCHES)



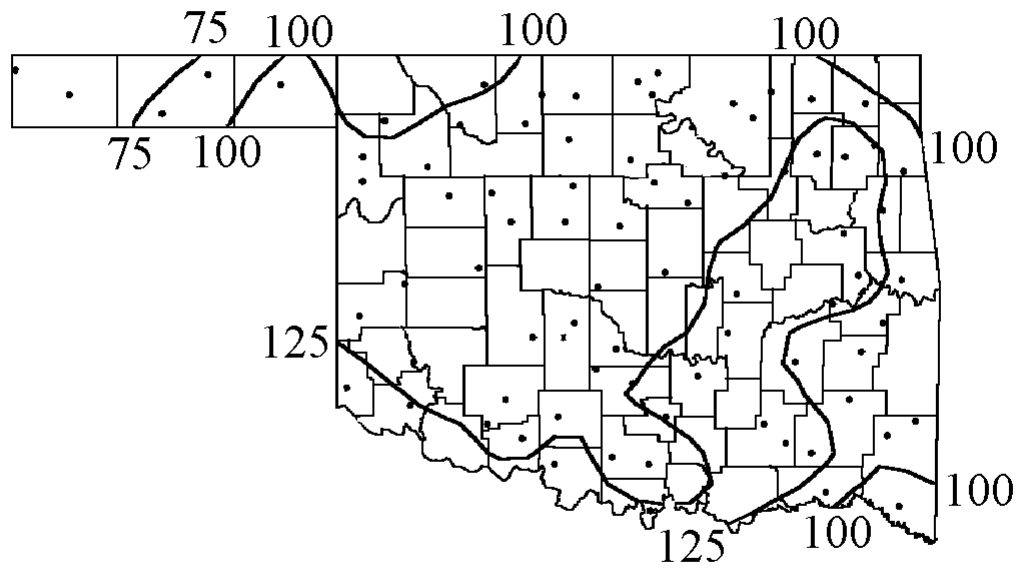
MARCH 2002 DEPARTURE FROM NORMAL PRECIPITATION (INCHES)



MARCH 2002 ACCUMULATED HEATING DEGREE DAYS (°F)



MARCH 2002 DEPARTURE FROM NORMAL HEATING DEGREE DAYS (°F)





## MARCH 2002 SUMMARY FOR PANHANDLE CLIMATE DIVISION (CD1)

NAME	ID	CD	MEAN	NUM	DEV		MIN	DAY	HEAT	DEV	COOL	DEV	TOT	NUM	DEV	MAX	DAY	
			TEMP	OBS	FROM	MAX			DEG	FROM	DEG	FROM		FROM	OBS			FROM
ARNETT	332	1	41.7	31	-4.1	89	14	1	4	724	128	0	0	0.021	31	-1.93	0.02	2
BEAVER	593	1	40.7	30	-4.8	84	24	0	4	730	125	0	0	0.031	30	*****	0.02	20
BOISE CITY	908	1	44.6	31	-1.2	84	13	3	2	632	37	0	0	0.003	31	-1.19	0.00	25
BUFFALO	1243	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.000	31	-2.14	0.00	31
FARGO	3070	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.060	31	*****	0.06	2
GAGE	3407	1	43.6	31	-3.2	91	13	0	3	668	103	4	4	0.014	31	-1.92	0.01	18
GATE	3489	1	43.7	26	*****	83	29	13	4	555	*****	0	*****	0.052	29	*****	0.05	19
GOODWELL	3628	1	43.0	31	-2.9	86	23	3	2	684	91	0	0	0.000	31	-1.10	0.00	31
GUYMON	3835	1	42.6	27	*****	85	24	4	3	605	*****	0	*****	0.000	28	*****	0.00	31
HOOKER	4298	1	45.0	31	-2.4	85	23	4	3	619	73	0	0	0.020	31	-1.40	0.02	2
KENTON	4766	1	43.7	31	-3.0	84	13	7	2	659	89	0	0	0.192	31	-0.77	0.19	25
LAVERNE	5045	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.180	31	*****	0.11	2
RANGE	7412	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.012	31	*****	0.01	1
REGNIER	7534	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.051	31	*****	0.05	25
TURPIN	9017	1	43.2	22	*****	83	28	2	4	480	*****	0	*****	0.000	23	*****	0.00	30

## MARCH 2002 SUMMARY FOR NORTH CENTRAL CLIMATE DIVISION (CD2)

NAME	ID	CD	MEAN	NUM	DEV		MIN	DAY	HEAT	DEV	COOL	DEV	TOT	NUM	DEV	MAX	DAY	
			TEMP	OBS	FROM	MAX			DEG	FROM	DEG	FROM		FROM	OBS			FROM
ALVA	193	2	44.0	31	-2.4	85	14	3	3	653	75	2	2	0.380	31	-1.98	0.22	2
BILLINGS	755	2	43.4	28	*****	82	14	0	3	606	*****	0	*****	0.750	30	*****	0.40	19
BLACKWELL 2E	818	2	42.9	31	-3.7	82	14	2	3	686	114	0	0	0.550	31	-2.33	0.20	19
BRAMAN	1075	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.810	31	*****	0.52	2
CEDARDALE	1620	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.301	31	*****	0.15	19
CHEROKEE	1724	2	42.9	29	*****	85	14	0	5	641	*****	1	*****	0.151	30	*****	0.15	9
ENID	2912	2	44.7	30	-2.5	82	14	2	3	612	59	3	3	0.631	31	-1.92	0.22	2
FT SUPPLY	3304	2	43.0	31	-2.7	88	14	1	3	682	81	0	0	0.210	31	-1.95	0.14	19
FREEDOM	3358	2	41.7	27	*****	83	13	-3	2	630	*****	0	*****	0.450	28	*****	0.36	18
GREAT SALT P	3740	2	43.6	30	-4.2	85	14	2	3	646	110	4	4	0.080	30	*****	0.08	20
HARDY	3909	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.610	31	*****	0.26	18
HELENA	4019	2	42.6	31	-4.8	85	14	0	4	694	147	0	0	0.360	31	-2.53	0.29	2
JEFFERSON	4573	2	42.0	31	-4.8	82	14	-1	4	712	146	0	0	0.302	31	-2.72	0.18	9
LAHOMA	4950	2	44.8	29	*****	85	14	0	3	589	*****	3	*****	0.420	31	*****	0.15	9
LAMONT	5013	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.300	31	*****	0.14	8
MEDFORD	5768	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.481	31	*****	0.24	2
MORRISON	6065	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.830	31	*****	0.75	19
MUTUAL	6139	2	42.5	31	-3.7	85	14	1	3	700	116	2	2	0.250	31	-2.05	0.20	19
NEWKIRK	6278	2	41.5	31	-4.2	79	14	-3	4	729	132	0	0	0.410	31	-2.41	0.25	19
ORIENTA	6751	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.300	31	*****	0.15	2
PERRY	7012	2	45.3	31	-3.4	82	14	5	3	614	108	5	4	1.202	31	-1.67	0.66	19
PONCA CITY	7201	2	44.4	31	-4.8	81	13	0	3	640	146	0	-2	0.284	31	-2.66	0.15	18
RED ROCK	7505	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.150	31	*****	0.44	18
WAYNOKA	9404	2	44.0	31	-4.0	86	13	0	2	658	127	5	4	0.290	31	-2.00	0.22	18
WOODWARD	9760	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.112	31	*****	0.10	2

## MARCH 2002 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	47.6	31	-2.4	83	14	2	3	545	78	5	4	0.992	31	-2.63	0.55	19
BARTLESVILLE	548	3	46.9	30	-4.0	85	14	4	4	551	110	7	6	0.990	31	-2.44	0.35	2
BIXBY	782	3	49.0	23	****	80	28	21	23	370	*****	2	*****	3.420	24	*****	1.46	24
BURBANK	1256	3	****	0	****	****	0	****	0	*****	*****	*****	*****	0.801	31	****	0.52	18
CHELSEA	1717	3	****	0	****	****	0	****	0	*****	*****	*****	*****	2.200	31	****	1.05	25
CLAREMORE	1828	3	43.3	31	-5.4	79	15	-3	4	674	166	0	0	2.152	31	-1.63	0.52	25
HOLLOW	4258	3	****	0	****	****	0	****	0	*****	*****	*****	*****	1.170	31	****	0.45	2
HOMINY	4289	3	****	0	****	****	0	****	0	*****	*****	*****	*****	1.800	31	****	0.85	19
KANSAS	4672	3	47.1	30	-3.7	76	14	1	3	540	99	4	3	4.040	31	-0.27	1.15	18
LENAPAH	5118	3	****	0	****	****	0	****	0	*****	*****	*****	*****	1.450	31	****	0.69	9
MANNFORD	5522	3	49.4	31	-2.4	85	14	3	3	492	77	8	4	1.820	31	-1.73	0.96	19
MARAMEC	5540	3	****	0	****	****	0	****	0	*****	*****	*****	*****	2.321	31	****	1.43	19
MIAMI	5855	3	46.5	16	****	70	16	8	5	296	*****	0	*****	2.100	27	****	0.75	3
NOWATA	6485	3	47.4	31	-3.4	80	14	2	4	549	107	4	3	1.590	31	-2.23	1.02	19
PAWHUSKA	6935	3	48.0	31	-2.2	83	14	5	4	535	75	7	6	1.202	31	-2.45	0.47	19
PAWNEE	6940	3	****	0	****	****	0	****	0	*****	*****	*****	*****	2.370	31	****	1.07	19
PRYOR	7309	3	43.1	31	-6.1	76	15	2	5	679	187	0	0	2.161	31	-1.85	0.59	19
RALSTON	7390	3	45.8	31	-2.6	83	14	2	4	600	83	3	3	1.131	31	-2.31	0.64	19
SPAVINAW	8380	3	47.9	31	-4.0	75	29	-2	3	534	127	3	1	2.490	31	-1.35	0.57	20
TULSA	8992	3	47.2	31	-4.2	80	14	7	4	553	116	1	-10	2.395	31	-1.17	0.70	2
UPPER SPAV	9101	3	44.3	30	****	78	14	0	4	622	*****	0	*****	2.651	30	****	0.65	19
VINITA	9203	3	46.3	30	-3.6	75	14	-4	3	565	95	3	3	2.671	30	****	0.95	2
WAGONER	9247	3	47.6	31	-4.6	76	14	0	3	542	143	3	0	3.920	31	0.29	1.29	19
WANN	9298	3	****	0	****	****	0	****	0	*****	*****	*****	*****	0.571	31	****	0.18	2

## MARCH 2002 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	44.9	31	-3.0	86	14	3	3	630	100	7	7	0.480	31	-2.05	0.25	19
CLINTON	1909	4	44.7	20	****	86	14	4	3	409	*****	2	*****	0.572	31	-1.94	0.55	19
CORDELL	2125	4	45.1	31	****	88	15	6	3	619	*****	2	*****	1.211	31	****	1.07	19
ELK CITY	2849	4	45.0	31	-2.7	88	15	5	3	625	86	3	3	0.460	31	-1.97	0.39	19
ERICK	2944	4	44.7	31	-3.1	92	14	6	4	630	97	2	2	0.380	31	-1.68	0.22	19
GEARY	3497	4	41.9	26	****	83	14	5	2	600	*****	0	*****	0.750	26	****	0.60	18
HAMMON	3871	4	44.3	27	****	89	14	2	3	562	*****	4	*****	0.480	27	****	0.28	19
LEEDEY	5090	4	****	0	****	****	0	****	0	*****	*****	*****	*****	0.110	31	****	0.11	19
MACKIE	5463	4	****	0	****	****	0	****	0	*****	*****	*****	*****	0.000	31	****	0.00	31
MORAVIA	6035	4	****	0	****	****	0	****	0	*****	*****	*****	*****	0.581	31	****	0.53	19
OKEENE	6629	4	48.2	28	****	82	13	1	3	480	*****	8	*****	0.541	31	-2.09	0.22	19
RETROP	7565	4	****	0	****	****	0	****	0	*****	*****	*****	*****	0.650	31	****	0.60	19
REYDON	7579	4	41.2	25	****	90	14	3	4	595	*****	1	*****	0.140	25	****	0.14	19
SAYRE	7952	4	****	0	****	****	0	****	0	*****	*****	*****	*****	0.560	31	****	0.34	19
SWEETWATER	8652	4	****	0	****	****	0	****	0	*****	*****	*****	*****	0.131	31	****	0.13	19
TALOGA	8708	4	43.5	31	-3.5	86	14	2	4	671	112	4	4	0.371	31	-1.98	0.22	2
THOMAS	8815	4	****	0	****	****	0	****	0	*****	*****	*****	*****	0.440	31	****	0.26	20
WATONGA	9364	4	43.7	31	-3.7	85	14	3	4	663	117	3	3	0.891	31	-1.88	0.52	19
WEATHERFORD	9422	4	45.2	31	-4.2	85	14	6	3	617	134	3	3	0.820	31	-1.45	0.73	19

## MARCH 2002 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 FROM NORM	MAX 24-HR	DAY	
					FROM NORM	MAX TEMP												
AMBER	200	5	*****	0	*****	****	0	****	0	*****	*****	*****	2.180	31	*****	1.27	19	
BLANCHARD	830	5	50.4	31	-2.5	88	14	6	3	463	85	11	8	2.135	31	-0.64	1.00	19
BRISTOW	1144	5	50.3	28	*****	82	14	2	4	421	*****	11	*****	2.860	30	*****	1.65	19
CHANDLER	1684	5	*****	0	*****	****	0	****	0	*****	*****	*****	2.120	31	-1.01	0.89	19	
CHICKASHA EXP	1750	5	50.8	31	-2.4	86	14	8	3	451	83	10	8	1.911	31	-0.91	1.41	19
COX CITY	2196	5	*****	0	*****	****	0	****	0	*****	*****	*****	2.370	31	*****	1.43	19	
CUSHING	2318	5	45.1	30	-4.8	84	15	6	4	597	126	1	-2	1.860	31	-1.35	1.28	19
EDMOND	2788	5	*****	0	*****	****	0	****	0	*****	*****	*****	1.810	31	*****	0.70	17	
EL RENO	2818	5	49.7	18	*****	85	15	16	6	277	*****	1	*****	1.830	18	*****	1.20	19
GUTHRIE	3821	5	45.1	31	-3.6	85	15	3	3	623	116	5	5	1.640	31	-1.66	1.14	19
HENNESSEY	4055	5	43.0	31	-3.9	82	15	3	4	683	122	0	0	0.930	31	-1.78	0.49	19
INGALLS	4489	5	*****	0	*****	****	0	****	0	*****	*****	*****	1.562	31	*****	1.01	19	
KINGFISHER	4861	5	43.6	30	-4.0	79	29	6	3	642	102	0	0	1.360	31	-1.30	0.76	19
KONAWA	4915	5	*****	0	*****	****	0	****	0	*****	*****	*****	0.690	30	*****	0.55	19	
MARSHALL	5589	5	*****	0	*****	****	0	****	0	*****	*****	*****	0.780	31	*****	0.47	19	
MEEKER	5779	5	44.9	31	-3.2	83	15	5	4	624	100	2	2	2.901	31	-0.37	1.64	19
MULHALL	6110	5	*****	0	*****	****	0	****	0	*****	*****	*****	1.200	31	*****	0.92	18	
NORMAN NWS	6386	5	46.1	30	*****	85	14	6	3	568	*****	2	*****	1.651	30	*****	0.84	19
OKEMAH	6638	5	49.1	31	-4.9	79	14	6	3	496	148	4	-2	3.370	31	-0.14	1.41	19
OKLAHOMA CTY F.	6659	5	*****	0	*****	****	0	****	0	*****	*****	*****	2.191	31	*****	0.65	18	
OKLAHOMA CTY	6661	5	46.0	31	-5.0	85	14	6	3	590	144	1	-6	2.241	31	-0.66	0.61	19
PERKINS	7003	5	*****	0	*****	****	0	****	0	*****	*****	*****	1.920	31	*****	1.52	19	
PIEDMONT	7068	5	*****	0	*****	****	0	****	0	*****	*****	*****	1.680	31	*****	1.33	19	
PRAGUE	7264	5	*****	0	*****	****	0	****	0	*****	*****	*****	2.840	31	*****	1.32	19	
PURCELL	7327	5	47.3	31	-2.8	86	15	7	3	551	88	2	2	1.621	31	-1.94	1.36	19
SEMINOLE	8042	5	44.6	29	*****	80	30	7	5	595	*****	4	*****	2.272	30	*****	1.77	25
SHAWNEE	8110	5	*****	0	*****	****	0	****	0	*****	*****	*****	2.441	31	*****	1.38	19	
STELLA	8479	5	*****	0	*****	****	0	****	0	*****	*****	*****	2.350	31	*****	1.75	19	
STILLWATER	8501	5	46.6	30	-2.7	85	15	13	4	557	70	4	4	1.920	31	-1.30	1.31	19
TECUMSEH	8751	5	*****	0	*****	****	0	****	0	*****	*****	*****	1.590	31	*****	1.59	9	
UNION CITY	9086	5	*****	0	*****	****	0	****	0	*****	*****	*****	2.032	31	*****	1.29	19	
WANETTE	9291	5	47.4	29	*****	84	15	7	3	512	*****	1	*****	1.660	29	*****	0.70	20
WELTY	9479	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0	*****	*****	0	0
WEWOKA	9575	5	*****	0	*****	****	0	****	0	*****	*****	*****	3.071	31	*****	1.63	19	

## MARCH 2002 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 FROM NORM	MAX 24-HR	DAY	
					FROM NORM	MAX TEMP												
ASHLAND	364	6	*****	0	*****	****	0	****	0	*****	*****	*****	5.701	31	*****	2.23	20	
BEGGS	631	6	****	0	*****	****	0	****	0	*****	*****	*****	3.000	31	*****	1.35	19	
CALVIN	1391	6	*****	0	*****	****	0	****	0	*****	*****	*****	4.450	31	*****	2.00	19	
CHECOTAH	1711	6	*****	0	*****	****	0	****	0	*****	*****	*****	3.930	31	*****	1.46	20	
CLAYTON	1858	6	*****	0	*****	****	0	****	0	*****	*****	*****	6.680	31	*****	2.38	19	
DEWAR	2485	6	*****	0	*****	****	0	****	0	*****	*****	*****	4.291	31	*****	2.10	19	
DUSTIN	2690	6	*****	0	*****	****	0	****	0	*****	*****	*****	4.191	31	*****	1.23	31	
EUFULA	2993	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0	*****	*****	0	0
HOLDENVILLE	4235	6	45.3	30	-4.6	83	14	5	2	592	124	3	3	4.380	30	*****	2.00	25
LAKE EUFAULA	4975	6	45.6	30	-4.8	79	15	9	3	583	127	1	-2	5.301	30	*****	2.27	19
LYONS	5437	6	*****	0	*****	****	0	****	0	*****	*****	*****	4.681	31	*****	1.70	19	
MCALESTER	5664	6	49.7	31	-3.6	81	14	6	4	483	115	10	5	6.150	31	2.18	2.85	19
MCCURTAIN	5693	6	50.5	31	-3.5	79	14	5	4	460	110	11	3	8.197	31	3.94	2.95	19
MUSKOGEE	6130	6	45.7	31	-4.7	78	14	3	3	600	145	0	0	3.020	31	-0.65	1.13	19
OKMULGEE	6670	6	48.5	27	*****	80	14	9	4	449	*****	4	*****	3.100	31	-0.67	1.15	18
OKTAHA	6678	6	*****	0	*****	****	0	****	0	*****	*****	*****	5.100	31	*****	1.83	20	
SALLISAW	7862	6	46.1	31	-4.1	77	15	7	3	586	126	1	0	6.260	31	2.11	2.23	20
SCIOPI	7979	6	*****	0	*****	****	0	****	0	*****	*****	*****	4.250	31	*****	1.78	20	
SHORT	8170	6	*****	0	*****	****	0	****	0	*****	*****	*****	3.460	31	*****	1.20	20	
STILWELL	8506	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0	*****	*****	0	0
TAHLEQUAH	8677	6	48.2	31	-3.3	76	28	1	3	525	104	4	2	2.872	31	-1.28	1.27	20
WEBBERS FALL	9445	6	45.0	30	-5.6	79	15	4	4	600	153	0	-1	5.810	31	1.62	1.90	20
WETUMKA	9571	6	*****	0	*****	****	0	****	0	*****	*****	*****	2.782	31	*****	1.00	19	

## MARCH 2002 SUMMARY FOR SOUTHWEST CLIMATE DIVISION (CD7)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV		DAY	MIN TEMP	DAY	HEAT DEG		DEV		COOL DEG		DEV		TOT PPT	NUM OBS	DEV		DAY
					FROM NORM	MAX TEMP				DAY	DAY	FROM NORM	DEG	FROM NORM	DEG	FROM NORM	DEG			FROM NORM	MAX	
ALTUS	179	7	47.2	31	-4.1	90	14	7	3	556	129	3	3	1.680	31	-0.10	0.93	19				
ALTUS DAM	184	7	48.0	30	-3.4	90	14	10	3	518	92	9	8	1.480	31	-0.58	1.20	19				
ANADARKO	224	7	44.9	30	-3.8	86	15	6	3	606	100	3	3	1.841	30	****	1.37	19				
APACHE	260	7	****	0	****	****	0	****	0	*****	*****	*****	*****	1.540	31	****	1.12	19				
CARNEGIE	1504	7	46.4	27	****	88	14	4	3	512	*****	9	*****	1.510	30	****	1.39	19				
CHATTANOOGA	1706	7	45.8	30	-4.5	91	14	5	3	577	122	1	1	3.610	31	1.12	1.24	19				
DUNCAN 11 W	2668	7	****	0	****	****	0	****	0	*****	*****	*****	*****	2.970	31	****	1.82	19				
FREDERICK	3353	7	46.9	29	****	90	14	11	3	526	*****	2	*****	4.230	29	****	1.72	30				
HEADRICK	3998	7	****	0	****	****	0	****	0	*****	*****	*****	*****	1.310	31	****	0.89	19				
HOBART	4204	7	48.2	29	****	87	13	12	4	492	*****	4	*****	1.231	29	****	0.85	19				
HOLLIS	4249	7	47.1	31	-5.2	91	13	6	3	561	165	7	6	0.880	31	-0.67	0.68	19				
LAWTON	5063	7	47.5	30	-5.0	89	15	11	3	529	133	3	1	1.940	31	-0.60	1.12	19				
LOOKEBA	5329	7	****	0	****	****	0	****	0	*****	*****	*****	*****	1.540	31	****	1.25	19				
MANGUM	5509	7	45.7	28	****	88	14	7	4	541	*****	1	*****	1.280	31	-0.43	0.71	19				
RANDLETT	7403	7	****	0	****	****	0	****	0	*****	*****	*****	*****	3.222	31	****	1.34	31				
ROOSEVELT	7727	7	****	0	****	****	0	****	0	*****	*****	*****	*****	1.490	31	****	1.22	19				
SEDAN	8016	7	****	0	****	****	0	****	0	*****	*****	*****	*****	1.500	31	****	1.25	19				
SNYDER	8299	7	****	0	****	****	0	****	0	*****	*****	*****	*****	1.570	31	****	1.21	19				
VINSON	9212	7	****	0	****	****	0	****	0	*****	*****	*****	*****	0.770	31	****	0.35	31				
WALTERS	9278	7	46.7	30	-4.7	89	15	10	4	549	127	1	1	4.600	31	1.88	2.10	19				
WICHITA MT	9629	7	46.8	27	****	88	14	6	4	493	*****	1	*****	1.610	28	****	0.97	19				

## MARCH 2002 SUMMARY FOR SOUTH CENTRAL CLIMATE DIVISION (CD8)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV		DAY	MIN TEMP	DAY	HEAT DEG		DEV		COOL DEG		DEV		TOT PPT	NUM OBS	DEV		DAY
					FROM NORM	MAX TEMP				DAY	DAY	FROM NORM	DEG	FROM NORM	DEG	FROM NORM	DEG			FROM NORM	MAX	
ADA	17	8	47.9	31	-4.8	81	14	5	3	532	147	0	-3	2.890	31	-0.79	1.04	20				
ALLEN	147	8	****	0	****	****	0	****	0	*****	*****	*****	*****	4.000	31	****	2.00	19				
ARDMORE	292	8	51.4	30	-1.8	85	14	12	3	417	45	9	4	4.050	31	0.88	1.66	19				
ATOKA	391	8	****	0	****	****	0	****	0	*****	*****	*****	*****	*****	0	****	****	0				
ATOKA DAM	394	8	47.1	31	-5.5	82	15	9	3	558	167	4	-2	6.260	31	2.41	3.18	19				
BOKCHITO	917	8	****	0	****	****	0	****	0	*****	*****	*****	*****	6.930	31	****	4.46	19				
CANEY	1437	8	****	0	****	****	0	****	0	*****	*****	*****	*****	6.650	31	****	3.51	19				
CENTRAHOMA	1648	8	47.4	28	****	82	15	8	3	495	*****	1	*****	4.200	28	****	2.00	20				
CHICKASAW	1745	8	47.6	31	-4.4	83	15	7	3	543	139	3	2	3.430	31	-0.47	1.16	20				
COLEMAN	2011	8	****	0	****	****	0	****	0	*****	*****	*****	*****	5.760	31	****	4.11	19				
COMANCHE	2054	8	****	0	****	****	0	****	0	*****	*****	*****	*****	1.810	31	****	0.75	30				
DAISY	2354	8	****	0	****	****	0	****	0	*****	*****	*****	*****	6.843	31	****	2.96	19				
DUNCAN	2660	8	48.1	31	-4.1	87	15	10	3	525	126	2	0	3.220	31	0.43	1.22	19				
DURANT	2678	8	49.4	28	****	83	14	12	2	447	*****	11	*****	6.612	29	****	3.05	18				
ELMORE CITY	2872	8	****	0	****	****	0	****	0	*****	*****	*****	*****	2.750	31	****	1.38	19				
GRADY	3688	8	****	0	****	****	0	****	0	*****	*****	*****	*****	3.190	31	****	1.65	20				
HEALDTON	4001	8	47.5	30	-4.8	87	15	9	3	526	123	2	-5	3.450	31	0.25	1.42	20				
HENNEPIN	4052	8	****	0	****	****	0	****	0	*****	*****	*****	*****	1.930	31	****	1.00	20				
KETCHUM RAN	4780	8	****	0	****	****	0	****	0	*****	*****	*****	*****	3.060	31	****	1.55	19				
KINGSTON	4865	8	****	0	****	****	0	****	0	*****	*****	*****	*****	5.910	31	****	3.90	19				
LEHIGH	5108	8	****	0	****	****	0	****	0	*****	*****	*****	*****	5.954	31	****	2.45	20				
LINDSAY	5216	8	47.0	31	-3.3	87	14	10	3	561	104	1	1	2.300	31	-0.60	1.14	18				
LOCO	5247	8	****	0	****	****	0	****	0	*****	*****	*****	*****	2.980	31	****	1.30	20				
MADILL	5468	8	48.8	29	****	84	15	12	4	477	*****	7	*****	5.660	30	****	2.60	19				
MARIETTA 5 SW	5563	8	48.1	31	-4.8	83	15	11	4	530	151	5	3	5.480	31	2.11	2.31	19				
MARLOW	5581	8	51.7	30	****	88	14	7	3	409	*****	9	*****	3.191	30	****	1.53	19				
MCGEE CREEK	5713	8	48.0	30	-5.1	83	30	11	4	515	139	4	-3	7.381	30	****	4.00	19				
PAULS VALLEY	6926	8	46.1	31	-4.6	86	15	8	4	588	143	1	1	2.691	31	-0.40	1.25	19				
PONTOTOC	7214	8	****	0	****	****	0	****	0	*****	*****	*****	*****	4.340	31	****	1.83	19				
TISHOMINGO	8884	8	****	0	****	****	0	****	0	*****	*****	*****	*****	5.500	31	****	2.70	18				
TUSSY	9032	8	****	0	****	****	0	****	0	*****	*****	*****	*****	2.071	31	****	0.83	20				
WAURIKA	9395	8	53.1	31	-2.6	90	14	12	3	385	86	15	5	2.090	31	-0.48	1.00	30				

## MARCH 2002 SUMMARY FOR SOUTHEAST CLIMATE DIVISION (CD9)

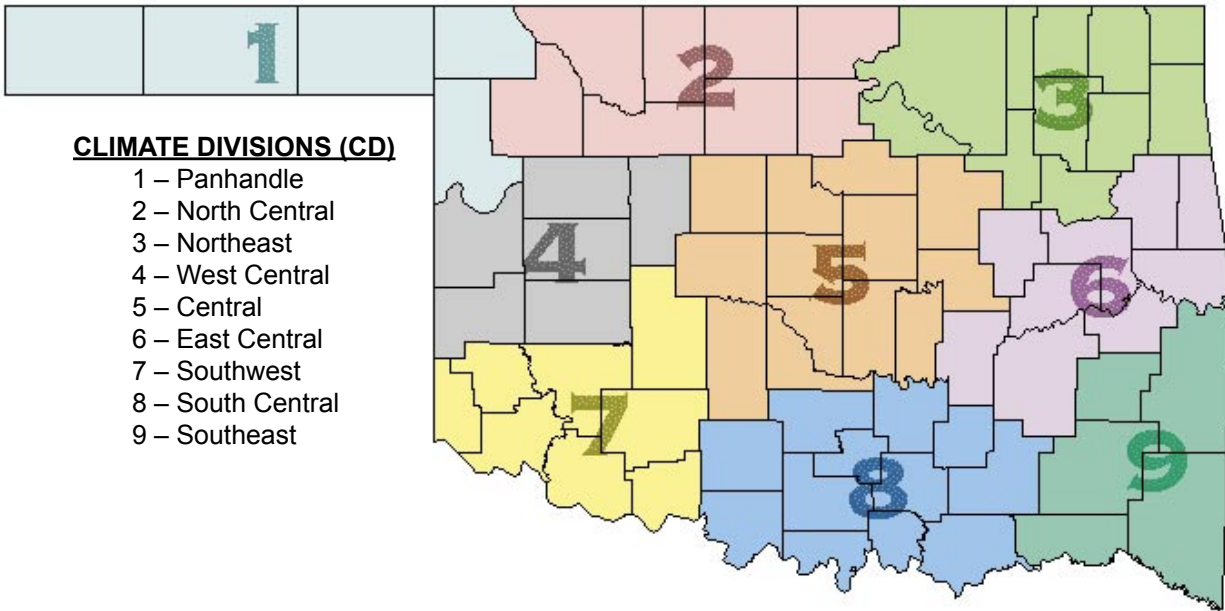
NAME	ID	CD	MEAN				MIN				HEAT		DEV		COOL		DEV		TOT	PPT	DEV		
			TEMP	NUM	OBS	NORM	TEMP	DAY	TEMP	DAY	DEG	DAY	FROM	NORM	DEG	DAY	FROM	NORM			NUM	OBS	FROM
ANTLERS	256	9	47.6	31	-6.3	83	30	12	4	544	194	4	-1	9.082	31	5.32	5.66	19					
BATTIEST	567	9	45.8	30	-3.6	82	30	6	5	577	93	2	2	8.531	31	3.80	3.21	19					
BENGAL	670	9	****	0	****	****	0	****	0	*****	*****	*****	*****	7.550	31	*****	3.10	19					
BROKEN BOW	1162	9	****	0	****	****	0	****	0	*****	*****	*****	*****	7.850	31	*****	3.36	20					
CARTER TWR	1544	9	****	0	****	****	0	****	0	*****	*****	*****	*****	7.770	31	*****	2.55	20					
FANSHAWE	3065	9	****	0	****	****	0	****	0	*****	*****	*****	*****	8.170	31	*****	3.41	19					
HEAVENER	4008	9	****	0	****	****	0	****	0	*****	*****	*****	*****	9.480	31	*****	3.54	20					
HUGO	4384	9	49.9	31	-3.0	83	30	12	3	470	92	2	1	10.291	31	6.17	4.20	9					
IDABEL	4451	9	50.4	30	-3.4	85	29	17	4	444	91	7	1	10.831	31	6.35	3.25	20					
PAGE	6842	9	43.2	24	*****	80	30	4	5	525	*****	1	*****	8.240	25	*****	4.92	19					
POTEAU	7254	9	****	0	****	****	0	****	0	*****	*****	*****	*****	*****	0	*****	*****	0					
SMITHVILLE	8285	9	45.9	31	-4.5	83	30	6	4	593	139	0	0	8.913	31	3.65	4.31	19					
SPIRO	8416	9	****	0	****	****	0	****	0	*****	*****	*****	*****	9.460	31	*****	2.88	19					
TUSKAHOMA	9023	9	51.5	31	-2.5	82	29	6	3	431	84	11	5	9.470	31	5.31	5.38	19					
VALLIANT	9118	9	****	0	****	****	0	****	0	*****	*****	*****	*****	9.481	31	*****	3.00	19					
WILBURTON	9634	9	49.5	30	-3.6	80	14	5	4	469	95	3	-2	8.541	30	*****	3.25	18					
WISTER	9724	9	47.5	30	****	78	30	6	4	528	*****	2	*****	8.940	31	*****	4.02	19					

## MARCH 2002 CLIMATE DIVISION SUMMARY

NAME	CD	MEAN				MIN				HEAT		DEV		COOL		DEV		TOT	PPT	DEV		
		TEMP	NUM	OBS	NORM	TEMP	DAY	TEMP	DAY	DEG	DAY	FROM	NORM	DEG	DAY	FROM	NORM			NUM	OBS	FROM
PANHANDLE	1	43.2	7	-3.3	91	13	0	3	673	100	1	0	0.050	11	-1.52	0.19	25					
NORTH CENTRAL	2	43.4	12	-3.7	88	14	-3	4	669	112	2	1	0.530	21	-2.14	0.75	19					
NORTHEAST	3	46.6	14	-3.7	85	14	-4	3	570	109	3	2	1.880	20	-1.85	1.46	24					
WEST CENTRAL	4	44.6	7	-3.6	92	14	1	3	636	115	3	3	0.510	16	-1.87	1.07	19					
CENTRAL	5	46.5	12	-3.6	88	14	2	4	570	108	3	2	2.000	27	-1.11	1.77	25					
EAST CENTRAL	6	47.0	8	-4.3	83	14	1	3	553	126	3	1	4.630	19	0.59	2.95	19					
SOUTHWEST	7	46.7	7	-4.0	91	13	4	3	557	114	4	3	1.960	16	-0.27	2.10	19					
SOUTH CENTRAL	8	48.6	12	-3.9	90	14	5	3	507	115	4	1	4.060	26	0.64	4.46	19					
SOUTHEAST	9	48.5	8	-3.9	85	29	4	5	507	113	4	1	8.990	14	4.61	5.66	19					

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**

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

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

### **Cooling Degree Days Calculation**

**NumDays**

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

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

# MESONET MONTHLY SUMMARY FOR MARCH 2002

NAME PANHANDLE	MEAN TEMP	MAX TEMP	MIN DAY	MIN TEMP	DAY	HDD	CDD	TOT PPT	MAX 24 HR	DAY	NAME	MEAN TEMP	MAX TEMP	MIN DAY	MIN TEMP	DAY	HDD	CDD	TOT PPT	MAX 24-HR	DAY
Arnett	44.3	90	13	3	3	646	5	0.01	0.01	19	Goodwell	42.1	84	23	2	3	711	0	0.00	0.00	1
Beaver	43.3	84	23	0	3	673	1	0.02	0.02	19	Hooker	42.6	85	23	1	3	695	0	0.00	0.00	1
Boise City	40.6	83	13	1	3	756	0	0.01	0.01	16	Kenton	41.4	84	13	7	2	732	0	0.05	0.05	25
Buffalo	43.3	84	28	1	3	672	0	0.09	0.05	18	Slapout	43.7	83	28	0	3	661	1	0.09	0.05	3
<b>NORTH CENTRAL</b>																					
Alva	43.7	86	13	0	3	659	0	0.22	0.14	18	May Ranch	42.7	80	28	1	3	693	0	0.34	0.29	18
Blackwell	43.6	82	13	0	3	662	0	0.48	0.22	18	Medford	43.2	81	13	0	3	676	0	0.25	0.22	8
Breckenridge	43.7	81	13	3	3	659	0	0.64	0.24	18	Newkirk	44.0	79	13	0	3	652	0	0.69	0.32	18
Cherokee	43.6	85	13	1	3	664	0	0.16	0.07	3	Red Rock	45.4	81	13	3	3	608	1	1.42	0.62	18
Fairview	45.0	86	13	2	3	624	3	0.30	0.14	3	Seiling	44.4	86	13	0	3	641	2	0.16	0.07	3
Freedom	43.6	82	28	0	3	664	0	0.42	0.35	18	Woodward	44.7	86	13	3	3	633	4	0.07	0.03	19
Lahoma	43.4	83	13	0	3	671	0	0.35	0.10	19											
<b>NORTHEAST</b>																					
Bixby	47.5	80	14	2	4	544	3	2.99	0.80	19	Nowata	44.1	79	14	-1	3	647	0	1.06	0.31	19
Burbank	44.6	81	14	3	3	632	0	1.01	0.60	18	Pawnee	45.4	83	14	3	3	607	0	2.23	0.97	18
Claremore	46.2	81	14	-1	3	582	1	2.49	0.55	24	Porter	47.9	78	14	5	4	532	2	3.21	0.85	18
Copan	45.0	83	14	5	3	622	0	0.64	0.15	4	Pryor	45.1	75	13	-1	4	616	0	1.90	0.47	19
Foraker	43.9	82	14	3	3	655	0	0.74	0.31	18	Skiatook	46.2	82	14	5	3	582	0	2.02	0.68	24
Inola	46.1	76	13	0	4	587	0	2.54	0.65	19	Vinita	44.1	76	14	-4	4	649	0	2.18	0.87	24
Jay	45.2	76	14	0	4	613	0	2.70	0.60	19	Wynona	45.7	83	14	5	3	598	0	1.60	0.59	18
Miami	44.2	75	13	-3	4	645	0	2.35	0.76	24											
<b>WEST CENTRAL</b>																					
Bessie	46.5	87	13	7	3	575	1	0.96	0.87	19	Putnam	44.6	85	13	0	3	634	1	0.33	0.19	19
Butler	46.0	88	13	1	3	590	1	0.43	0.37	19	Retrop	47.0	89	13	6	3	564	5	0.65	0.58	19
Camargo	44.3	89	13	2	3	644	2	0.08	0.06	19	Watonga	44.8	83	13	1	3	627	2	0.62	0.43	19
Cheyenne	45.6	89	13	6	3	605	4	0.24	0.24	19	Weatherford	45.0	84	13	4	3	621	0	0.71	0.54	19
Erick	46.0	91	13	6	3	591	2	0.33	0.33	19											
<b>CENTRAL</b>																					
Acme	47.6	86	14	7	3	544	4	2.29	1.22	19	Minco	45.8	86	14	7	3	596	2	2.26	0.86	19
Bowlegs	48.2	81	14	5	3	525	5	2.23	0.88	19	Ninnekah	47.1	88	14	9	3	540	4	1.79	0.95	19
Bristow	46.4	81	14	1	4	579	3	2.35	1.00	18	Norman	46.6	85	14	6	3	572	3	0.41	0.41	30
Chandler	46.9	83	14	5	3	563	3	2.12	0.89	18	Oilton	45.5	83	14	1	4	607	3	2.02	0.94	18
Chickasha	47.0	87	14	9	3	526	5	1.98	1.11	19	Okemah	48.0	79	14	3	3	531	4	3.41	1.01	18
El Reno	44.8	85	14	1	3	627	0	1.51	0.86	18	Perkins	45.9	82	14	5	3	592	1	1.63	0.97	18
Guthrie	46.7	83	14	5	3	571	3	1.81	0.99	18	Shawnee	47.3	83	14	8	3	553	4	2.33	0.89	19
Kingfisher	45.4	83	14	6	3	607	0	1.15	0.60	19	Spencer	46.8	85	14	5	3	569	4	2.06	0.74	18
Marena	45.7	83	14	4	3	598	1	1.75	1.00	18	Stillwater	45.8	83	14	6	3	597	3	1.89	1.09	18
Marshall	45.0	82	13	3	3	621	0	1.09	0.48	18	Washington	47.2	85	14	7	3	554	3	2.23	1.02	18
<b>EAST CENTRAL</b>																					
Calvin	48.7	80	14	7	3	510	5	2.84	1.82	19	Sallisaw	48.4	78	14	4	3	517	3	6.30	2.76	19
Cookson	47.0	76	14	1	4	561	3	7.57	2.25	19	Stigler	48.9	79	14	6	3	507	7	7.03	2.85	19
Eufaula	49.2	80	14	7	3	497	6	4.65	1.77	19	Stuart	49.9	80	14	7	3	475	7	4.26	2.38	19
Haskell	47.2	78	14	3	3	552	2	3.12	1.04	19	Tahlequah	46.4	75	14	1	3	578	1	3.72	1.15	19
Hectorville	48.4	79	14	4	3	517	2	3.02	0.84	18	Webbers Falls	48.9	79	14	6	4	502	3	4.73	1.78	19
McAlester	50.0	81	14	6	3	474	9	6.54	2.97	19	Westville	46.4	75	28	2	3	577	1	5.30	1.43	19
Okmulgee	47.6	80	14	2	4	544	3	3.33	1.06	18											
<b>SOUTHWEST</b>																					
Altus	48.6	92	13	8	3	514	6	1.61	0.92	19	Hollis	48.3	91	13	9	3	522	3	0.76	0.59	19
Apache	46.5	85	14	6	3	574	2	1.53	0.72	19	Mangum	47.2	91	13	3	3	558	5	1.33	0.79	19
Fort Cobb	47.0	86	13	6	3	563	4	1.79	0.84	19	Medicine Park	48.4	87	13	9	3	519	5	1.64	0.87	19
Grandfield	49.1	90	13	8	3	500	7	3.42	1.43	19	Tipton	48.8	91	13	9	3	509	7	2.00	0.86	19
Hinton	45.7	84	13	5	3	600	1	1.21	0.78	19	Walters	49.3	89	14	11	3	496	8	4.10	1.67	19
Hobart	46.3	87	13	5	3	585	4	1.03	0.85	19											
<b>SOUTH CENTRAL</b>																					
Ada	49.1	82	14	5	3	500	7	2.96	1.45	19	Lane	50.8	81	14	12	3	448	7	7.84	4.02	19
Ardmore	51.2	84	14	11	3	438	11	4.53	2.08	19	Madill	52.2	84	14	12	3	410	12	5.26	2.50	19
Bee	49.5	80	29	11	3	346	5	3.63	2.34	19	Pauls Valley	49.9	86	14	9	3	479	11	1.93	1.11	19
Burneyville	52.4	86	14	11	3	409	19	4.37	2.13	19	Ringling	50.2	86	14	9	3	469	9	3.68	1.68	30
Byars	49.0	84	14	7	3	501	7	2.39	1.42	19	Sulphur	50.4	81	14	10	4	446	8	2.89	1.42	19
Centrahoma	50.0	81	14	8	3	472	8	4.55	2.27	19	Tishomingo	50.4	81	14	9	3	460	6	3.02	1.10	18
Durant	51.7	82	14	12	3	423	10	7.68	3.75	18	Vanoss	49.2	82	14	6	3	498	8	2.75	1.38	19
Ranch	48.8	87	14	10	3	507	5	3.00	1.94	19	Waurika	51.0	90	14	12	3	448	13	2.80	1.43	19
<b>SOUTHEAST</b>																					
Antlers	50.2	84	29	8	4	467	9	8.54	3.99	18	Idabel	51.4	83	29	14	3	431	10	10.48	5.46	30
Broken Bow	50.2	83	29	12	4	462	4	8.52	3.26	30	Mt Herman	49.3	78	29	9	3	489	3	8.50	3.85	19
Clayton	50.7	81	14	11	3	450	8	7.68	3.58	19	Talihina	50.6	82	29	8	3	458	12	8.99	4.01	19
Cloudy	50.0	83	29	12	3	471	5	8.02	2.79	19	Wilburton	49.6	80	14	2	3	486	9	7.65	3.33	19
Hugo	51.4	82	14	11	3	428	7	6.83	3.18	19	Wister	49.2	79	14	5	4	498	7	9.30	4.11	19



**EXTREME VALUES OF TEMPERATURE AND PRECIPITATION IN EACH CLIMATE DIVISION  
MARCH 2002**

CD	MAX TEMP	DATE	LOCATION	MIN TEMP	DATE	LOCATION	24-HOUR PRECIP	DATE	LOCATION	MONTHLY PRECIP	LOCATION
1	91	13	GAGE	0	3	BEAVER	.19	25	KENTON	.19	KENTON
				0	4	BEAVER					
				0	3	GAGE					
2	88	14	FT SUPPLY	-3	2	FREEDOM	.75	19	MORRISON	1.83	MORRISON
				-3	3	NEWKIRK					
				-3	4	NEWKIRK					
3	85	14	BARTLESVILLE	-4	3	VINITA	1.46	24	BIXBY	4.04	KANSAS
	85	14	MANNFORD								
4	92	14	ERICK	1	3	OKEENE	1.07	19	CORDELL	1.21	CORDELL
5	88	14	BLANCHARD	2	4	BRISTOW	1.77	25	SEMINOLE	3.37	OKEMAH
6	83	14	HOLDENVILLE	1	3	TAHLEQUAH	2.95	19	MCCURTAIN	8.20	MCCURTAIN
7	91	14	CHATTANOOGA	4	3	CARNEGIE	2.10	19	WALTERS	4.60	WALTERS
	91	13	HOLLIS								
8	90	14	WAURIKA	5	3	ADA	4.46	19	BOKCHITO	7.38	MCGEE CREEK
9	85	29	IDABEL	4	4	PAGE	5.66	19	ANTLERS	10.83	IDABEL
				4	5	PAGE					

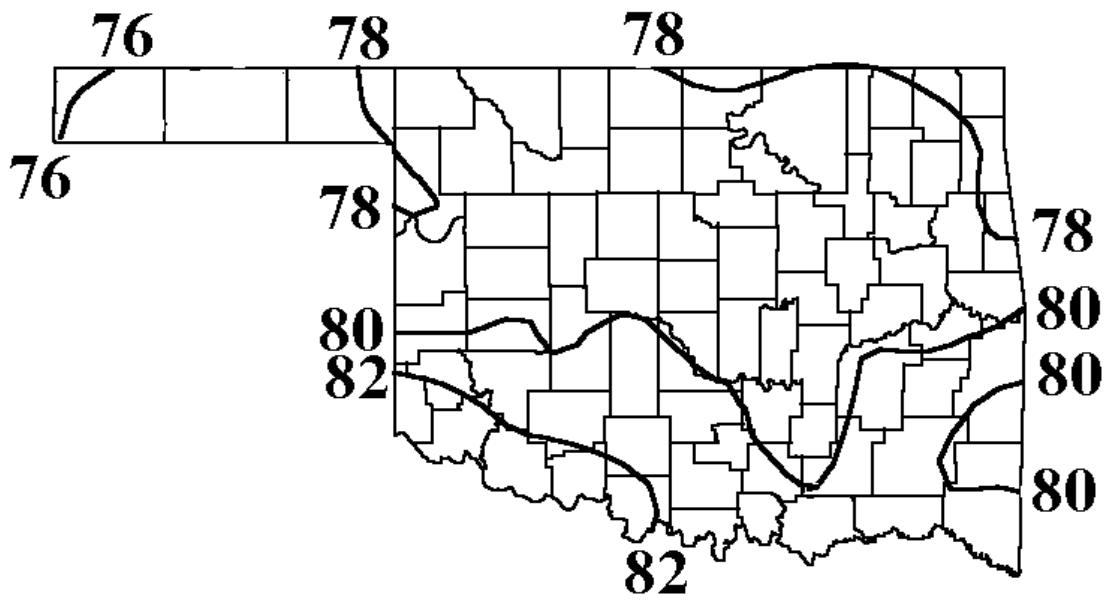
**TABLE OF 2001/2002 COMPARISONS**

Station	MARCH Temperature ( F )		MARCH Precipitation (in.)	
	2001	2002	2001	2002
Arnett	43.0	41.7	1.10	0.02
Enid	44.6	44.7	1.49	0.63
Tulsa	47.1	47.2	0.78	2.40
Elk City	44.8	45.0	2.36	0.46
Oklahoma City	46.6	46.0	1.02	2.24
McAlester	48.9	49.7	1.86	6.15
Altus Irr Station	47.8	47.2	0.96	1.68
Ardmore	50.7	51.4	0.48	4.05
Idabel	51.2	50.4	4.78	10.83

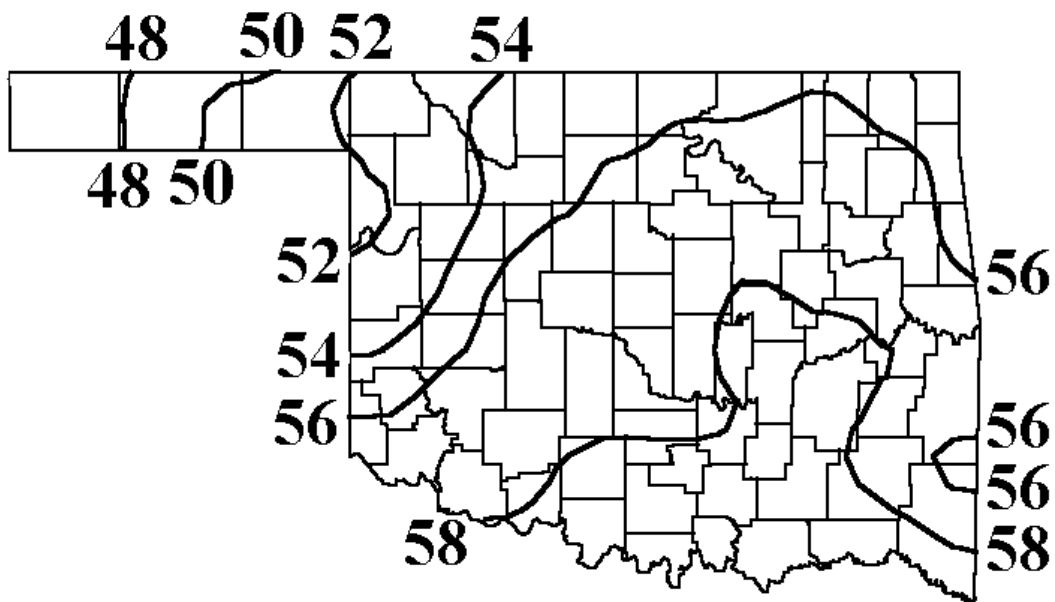
**MARCH 2002 STATEWIDE EXTREMES**

VARIABLE	STATION	DIVISION	OBSERVATION	DATE
Minimum temperature ( F )	Vinita	3	-4	3
Maximum temperature ( F )	Erick	4	92	14
Maximum 24-hour Precipitation	Antlers	9	5.66"	19

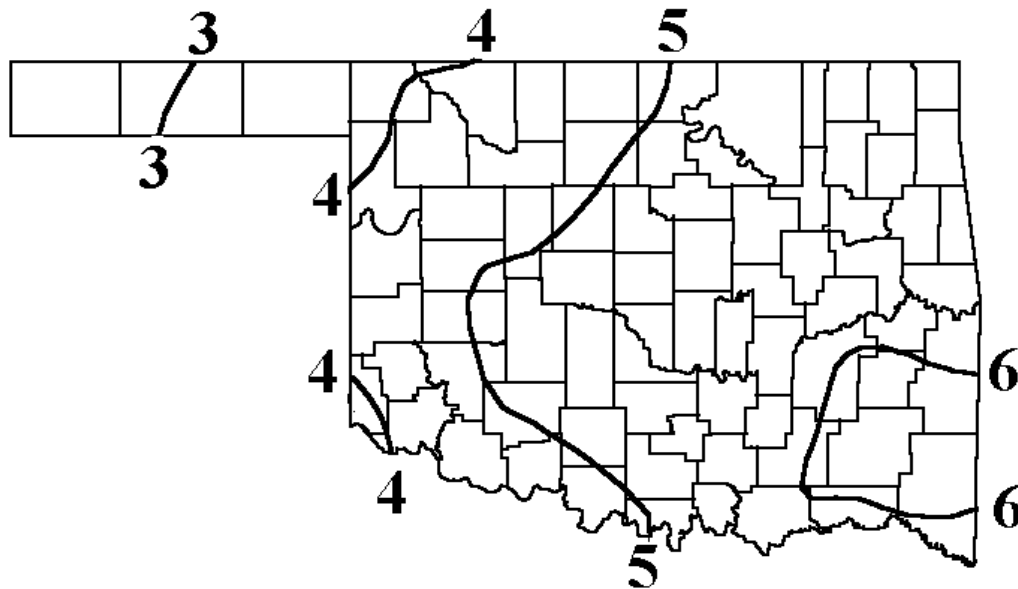
MAY NORMAL DAILY MAXIMUM TEMPERATURE (°F)



MAY NORMAL DAILY MINIMUM TEMPERATURE (°F)



## MAY NORMAL MONTHLY PRECIPITATION (INCHES)



## MAY TORNADO STATISTICS

The most tornadoes reported in **MAY** for Oklahoma was **(91)** in **1999**.

The average number of tornadoes in **MAY** for Oklahoma is **(20)**.

## OUTLOOK FOR MAY 2002 THROUGH JULY 2002

BASED ON SEASONAL OUTLOOK PROVIDED BY THE CLIMATE PREDICTION CENTER

**Temperature: Near Normal Temperature Statewide**

**Precipitation: Above Normal Precipitation in Northern Part of State  
Near Normal Precipitation in Southern Part of State**

**OKLAHOMA CITY CLIMATE CALENDAR**

**MAY**

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

Day	Avg. Temp.	Ave. High	Record High	Year	Lowest Max	Year	Ave. Low	2002	Highest Min.	Year	Record Low	Year	Avg. Precip.	2002	Greatest Precip.	Year
1	64	76	93	1948	53	1966	53		66	1938	33	1909	0.13		1.63	1954
2	65	76	94	1943	51	1994	54		69	1959	39	1961	0.14		2.99	1990
3	65	76	95	1920	49	1978	54		70	1949	32	1954	0.14		3.58	1898
4	65	76	93	1955	44	1935	54		72	1950	34	1907	0.15		3.60	1898
5	66	76	94	1940	50	1935	55		69	1940	37	1917	0.15		4.24	1899
6	66	77	92	1918	48	1908	55		70	1986	37	1944	0.16		2.61	1930
7	66	77	93	1955	55	1893	55		71	1927	39	1917	0.16		2.27	1892
8	66	77	96	1918	50	1943	55		70	1927	37	1917	0.16		6.64	1993
9	66	77	93	1895	55	1943	56		70	1963	40	1923	0.16		3.37	1943
10	67	78	96	1967	53	1954	56		71	1963	40	1924	0.17		4.71	1950
11	67	78	94	1923	54	1954	56		70	1963	37	1981	0.17		2.85	1920
12	67	78	93	1992	55	1914	56		72	1956	39	1979	0.17		2.26	1982
13	68	78	95	1984	49	1953	57		69	1991	39	1971	0.17		2.58	1983
14	68	78	92	1952	55	1934	57		70	1998	41	1953	0.17		2.48	1986
15	68	79	90	1966	48	1945	57		72	1999	38	1907	0.18		3.59	1920
16	68	79	92	1966	56	1920	58		75	1974	42	1945	0.18		1.81	1986
17	69	79	96	1966	61	1986	58		74	1974	40	1945	0.18		3.17	1951
18	69	79	95	1956	59	1943	58		72	1996	45	1976	0.18		1.50	1902
19	69	80	96	1973	61	1943	59		72	1996	40	1894	0.18		3.35	1955
20	69	80	94	1990	63	1942	59		74	1902	43	1981	0.18		2.74	1979
21	69	80	95	1953	56	1968	59		73	1953	42	1892	0.18		2.81	1922
22	70	81	98	1939	57	1892	59		74	1953	42	1931	0.18		3.09	1952
23	70	81	99	1939	60	1963	60		76	1996	42	1892	0.18		4.16	1908
24	70	81	94	1939	59	1995	60		74	1996	42	1935	0.18		4.06	1903
25	71	81	93	1990	59	1995	60		72	1965	47	1947	0.18		1.49	1968
26	71	82	96	1953	58	1950	61		74	1916	45	1901	0.18		3.22	1995
27	72	82	96	1927	59	1893	61		74	1912	42	1907	0.18		5.38	1987
28	72	82	93	1895	52	1992	61		71	1942	43	1947	0.18		2.33	1987
29	72	82	94	1985	57	1902	62		73	1989	39	1947	0.18		5.63	1970
30	72	83	104	1985	64	1915	62		74	1974	45	1947	0.18		1.67	1958
31	73	83	98	1934	54	1903	62		74	1991	44	1983	0.17		2.14	1892
<b>MONTH</b>	<b>68.4</b>	<b>79.1</b>	<b>104</b>	<b>1985</b>	<b>44</b>	<b>1935</b>	<b>57.7</b>		<b>76</b>	<b>1996</b>	<b>32</b>	<b>1954</b>	<b>5.22</b>		<b>6.64</b>	<b>1993</b>

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

**TULSA CLIMATE CALENDAR**

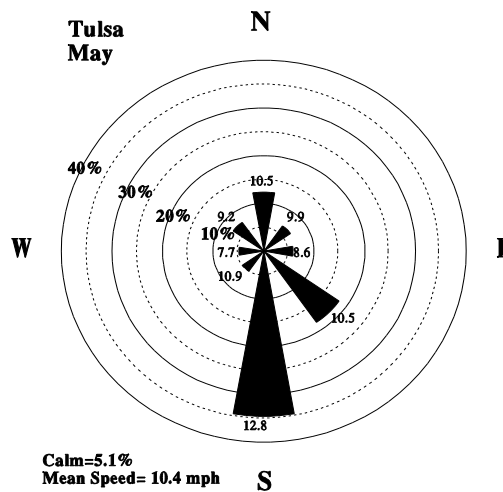
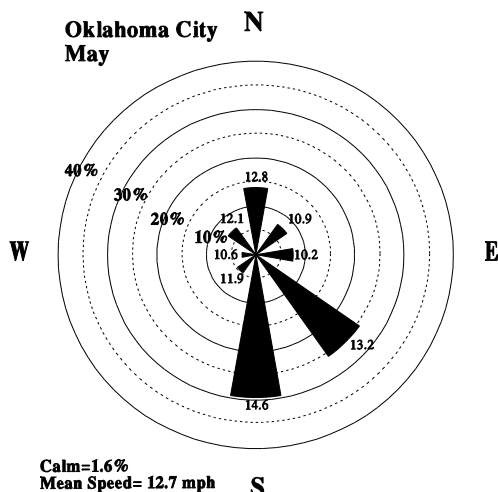
**MAY**

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	Year	Lowest Max	Year	Ave. Low	2002	Highest Min.	Year	Record Low	Year	Avg. Precip.	2002	Greatest Precip.	Year
1	66	77	89	1948	53	1966	55		71	1936	32	1909	0.16		2.10	1944
2	66	77	94	1943	50	1994	55		69	1959	32	1909	0.16		1.70	1980
3	66	77	96	1920	52	1978	55		69	2001	36	1976	0.16		2.19	1979
4	66	77	96	1920	51	1935	55		72	1950	36	1954	0.17		2.30	1999
5	67	77	92	1952	51	1935	56		71	1964	36	1907	0.17		2.88	1913
6	67	77	90	1952	59	1944	56		71	1986	36	1944	0.17		2.83	2000
7	67	78	93	1918	52	1910	56		72	2000	40	1931	0.17		4.09	1995
8	67	78	97	1918	53	1943	56		71	1996	37	1938	0.18		3.66	1961
9	67	78	93	1918	61	1924	57		72	1948	38	1923	0.18		6.15	1943
10	68	78	93	1963	54	1924	57		71	1963	41	1909	0.18		4.36	1950
11	68	78	94	1980	58	1912	57		74	1956	39	1924	0.18		2.83	1992
12	68	79	91	1992	57	1939	57		75	1956	40	1960	0.18		4.05	1982
13	69	79	93	1911	51	1953	58		72	1991	41	1971	0.18		4.47	1933
14	69	79	93	1911	54	1907	58		71	1998	44	1976	0.18		2.51	1956
15	69	79	95	1911	52	1945	58		72	1996	35	1907	0.19		2.05	1910
16	69	80	94	1931	52	1945	59		74	1974	40	1907	0.19		1.40	1943
17	69	80	94	1911	65	1935	59		76	1974	40	1945	0.19		1.89	1928
18	70	80	94	1987	65	1952	59		74	1996	45	1976	0.19		2.48	1960
19	70	80	94	1911	65	1981	60		74	1996	46	1968	0.19		3.91	1949
20	70	80	94	1956	64	1967	60		71	1982	42	1981	0.19		2.50	1902
21	71	81	95	1925	56	1968	60		73	1962	45	1915	0.19		1.90	1978
22	71	81	93	1953	56	1917	61		77	1953	44	1931	0.19		2.10	1902
23	71	81	94	2000	62	1963	61		75	1953	41	1917	0.19		1.47	1947
24	71	82	94	1911	63	1956	61		75	1996	42	1935	0.19		3.16	1908
25	72	82	94	1911	64	1995	61		75	1996	45	1925	0.19		1.80	1974
26	72	82	94	1926	60	1992	62		73	1916	44	1925	0.19		2.40	1984
27	72	82	94	1911	65	1992	62		75	1912	45	1961	0.18		6.95	1984
28	72	83	94	1926	53	1992	62		73	1991	45	1947	0.18		2.08	1905
29	72	83	98	1926	62	1947	62		76	1989	40	1947	0.18		1.60	1903
30	73	83	98	1934	59	1964	63		76	1989	45	1947	0.18		2.71	1976
31	73	83	100	1934	63	1907	63		77	1991	49	1930	0.18		2.50	1926
<b>MONTH</b>	<b>69.3</b>	<b>79.71</b>	<b>100</b>	<b>1934</b>	<b>50</b>	<b>1994</b>	<b>58.74</b>		<b>77</b>	<b>1991</b>	<b>32</b>	<b>1909</b>	<b>0.18</b>		<b>6.95</b>	<b>1984</b>

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

## MAY WIND ROSES



**May 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.

## MAY SUNRISE/SUNSET TIMES FOR 2002

ALL TIMES ARE CENTRAL STANDARD TIME

OKLAHOMA CITY			TULSA		
DATE	SUNRISE	SUNSET	DATE	SUNRISE	SUNSET
5/1/02	5:39 AM	7:16 PM	5/1/02	5:31 AM	7:11 PM
5/2/02	5:37 AM	7:17 PM	5/2/02	5:30 AM	7:12 PM
5/3/02	5:36 AM	7:18 PM	5/3/02	5:29 AM	7:13 PM
5/4/02	5:35 AM	7:19 PM	5/4/02	5:28 AM	7:14 PM
5/5/02	5:34 AM	7:20 PM	5/5/02	5:27 AM	7:15 PM
5/6/02	5:33 AM	7:20 PM	5/6/02	5:26 AM	7:15 PM
5/7/02	5:32 AM	7:21 PM	5/7/02	5:25 AM	7:16 PM
5/8/02	5:32 AM	7:22 PM	5/8/02	5:24 AM	7:17 PM
5/9/02	5:31 AM	7:23 PM	5/9/02	5:23 AM	7:18 PM
5/10/02	5:30 AM	7:24 PM	5/10/02	5:22 AM	7:19 PM
5/11/02	5:29 AM	7:25 PM	5/11/02	5:21 AM	7:20 PM
5/12/02	5:28 AM	7:25 PM	5/12/02	5:20 AM	7:20 PM
5/13/02	5:27 AM	7:26 PM	5/13/02	5:19 AM	7:21 PM
5/14/02	5:26 AM	7:27 PM	5/14/02	5:19 AM	7:22 PM
5/15/02	5:26 AM	7:28 PM	5/15/02	5:18 AM	7:23 PM
5/16/02	5:25 AM	7:29 PM	5/16/02	5:17 AM	7:24 PM
5/17/02	5:24 AM	7:29 PM	5/17/02	5:16 AM	7:25 PM
5/18/02	5:23 AM	7:30 PM	5/18/02	5:15 AM	7:25 PM
5/19/02	5:23 AM	7:31 PM	5/19/02	5:15 AM	7:26 PM
5/20/02	5:22 AM	7:32 PM	5/20/02	5:14 AM	7:27 PM
5/21/02	5:21 AM	7:32 PM	5/21/02	5:13 AM	7:28 PM
5/22/02	5:21 AM	7:33 PM	5/22/02	5:13 AM	7:28 PM
5/23/02	5:20 AM	7:34 PM	5/23/02	5:12 AM	7:29 PM
5/24/02	5:20 AM	7:35 PM	5/24/02	5:12 AM	7:30 PM
5/25/02	5:19 AM	7:35 PM	5/25/02	5:11 AM	7:31 PM
5/26/02	5:19 AM	7:36 PM	5/26/02	5:11 AM	7:31 PM
5/27/02	5:18 AM	7:37 PM	5/27/02	5:10 AM	7:32 PM
5/28/02	5:18 AM	7:37 PM	5/28/02	5:10 AM	7:33 PM
5/29/02	5:17 AM	7:38 PM	5/29/02	5:09 AM	7:33 PM
5/30/02	5:17 AM	7:39 PM	5/30/02	5:09 AM	7:34 PM
5/31/02	5:16 AM	7:39 PM	5/31/02	5:08 AM	7:35 PM

ADD ONE HOUR FOR CENTRAL DAYLIGHT TIME

## CONTACT INFORMATION

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