OKLAHOMA
MONTHLY SUMMARY
MARCH 1992

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MARCH 1992 OKLAHOMA SUMMARY

March made a decidedly lamb-like entrance in 1992, remained milder than-usual despite some untimely freezing weather, then meekly exited cooler than it began and with the eastern third of the state badly in need of rainfall. The statewide average temperature for the month was 53.9 degrees, tied for the 22nd warmest March and 3.2 degrees above the 1961-1990 normal. Total precipitation across the state averaged 1.88 inches, a total that is .93 inch below normal. The year-to-date mean temperature of 47.9 degrees is 5.1 degrees above normal, the sixth highest average first-quarter temperature in the state's recorded history.

Total precipitation for the year, thus far, averages 4.31 inches, one and one-half inches below normal. Six of the state's nine climate divisions (CDs) have received below-average precipitation for the year. CDs 3 (northeast) and 6 (east central) each received less than 70 percent of normal precipitation during the first three months of the year.

The month began rather pleasantly with high temperatures across the state ranging from the upper 60s to the low 80s on the first three days. A disturbance in the upper atmosphere to the west of Oklahoma moved eastward through the state triggering thunderstorms on the 3rd and 4th in western and southern parts of the state, producing scattered incidents of golf ball sized hail and local rainfall reports of as much as 2.71 inches at the Chickasaw National Recreation Area near Sulphur.

Temperatures for the month peaked on the afternoon of the 7th when stations reported highs of 85 degrees. The warm, spring-like weather held on through the 9th as a strong upper disturbance moved towards the state bringing with it a reminder that winter had not ended, yet. Strong thunderstorms across the southern one-half of the state produced damaging hail and high winds in many areas. The first tornadoes of the 1992 spring season were reported near Ratliff City (accompanied by baseball sized hail) in Carter County and in the Pontotoc County community of Union Valley. Hartshorne reported 1.78 inches of rainfall and Grandfield reported 1.77 inches from these storms.

The cold front that entered northwestern Oklahoma on the 9th sped through the state on the 10th. Guymon and Arnett reported the lowest temperatures of the month, both 14 degrees on the 10th. Overnight low temperatures on the 10th through the 14th were commonly in the 20s in all but the southeastern third of the state. The state's fruit trees, which had bloomed early in response to the mild winter, received significant freeze damage. Winter wheat also received some damage from the cold.

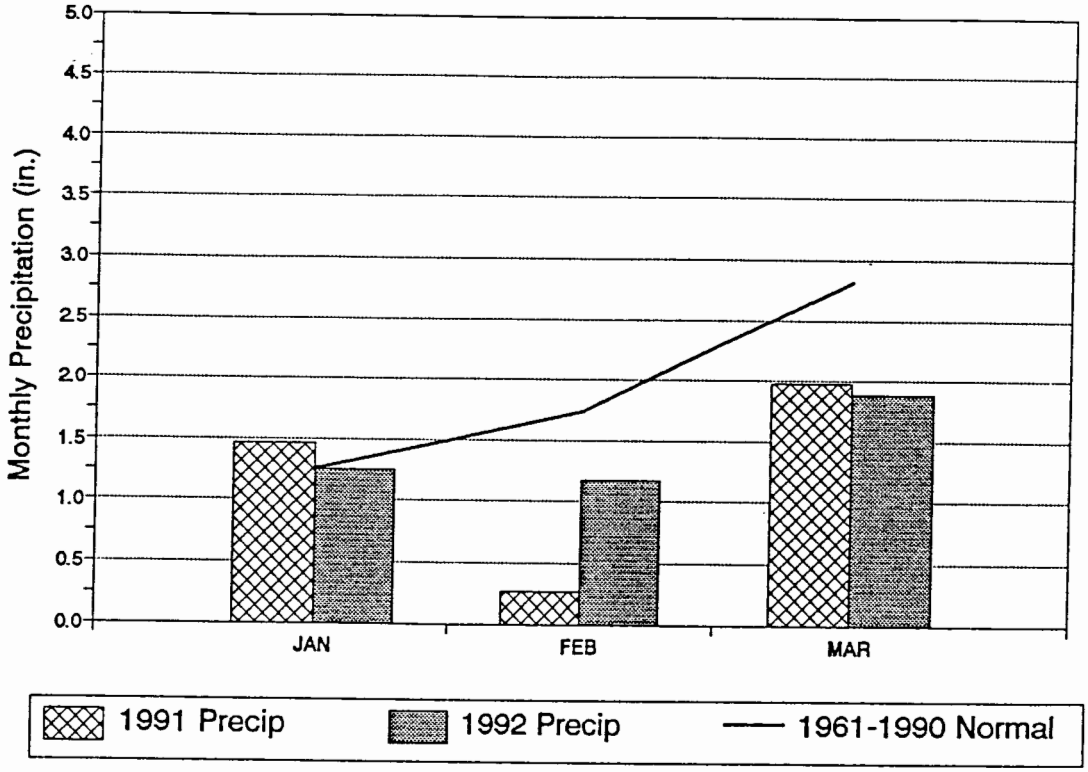
A warming trend began in the west at mid-month and scattered thunderstorm activity resumed on the 16th in the southwest, where thunderstorm related winds of as much as 69 miles per hour damaged property in Altus. Another cold front, accompanied by an upper-level storm system, entered the state on the 17th, triggering thunderstorms that produced large hail in northwestern Oklahoma, torrential rain and street flooding in Clinton (4.10 inches in 90 minutes) and 3.5 inches of rain at Blackwell. Large hail was reported at several east central locations on the 18th as the storm system moved through the state.

Winter gave evidence that it had not abandoned the state, just yet, as light snow was reported in several areas of northeastern Oklahoma on the morning of the 19th. Cooler weather prevailed through the 23rd. Thunderstorms set off by a weak upper-level disturbance produced large hail in Caddo County the night of the 21st and early morning on the 22nd in Lincoln County. As much as an inch of rain fell in parts of east central Oklahoma overnight.

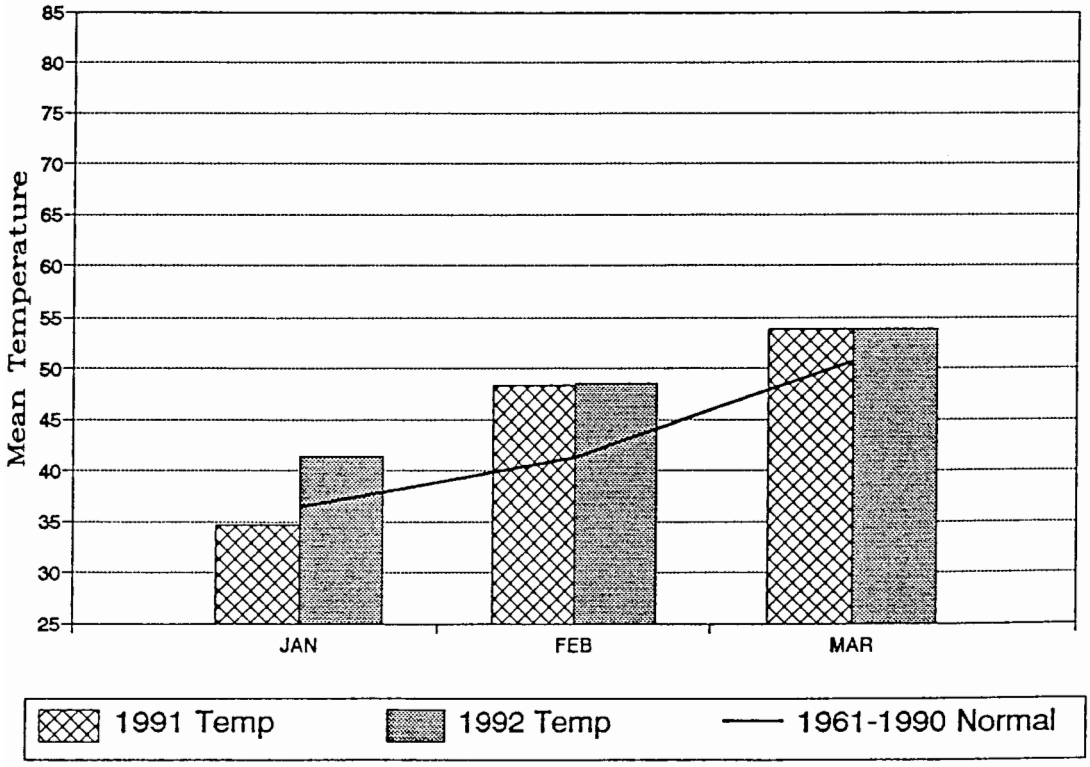
Another round of thunderstorms on the 24th produced scattered reports of large hail in western Oklahoma. Another cold front moved through the state on the 26th, only to return as a warm front on the 28th, in advance of a major upper disturbance and as part of a complex and developing frontal system. Thunderstorms in western Oklahoma dropped large hail on parts of Alfalfa, Major, Blaine, Comanche, Grady and Stephens Counties on the 28th, although reported rainfall amounts were all less than an inch. The system brought an early spring shot of wintery cold to the state as temperatures dipped into the 20s and low 30s at many locations on the 30th and 31st. The highest reported temperatures in the state on the 31st were in the upper 60s.

Howard L. Johnson

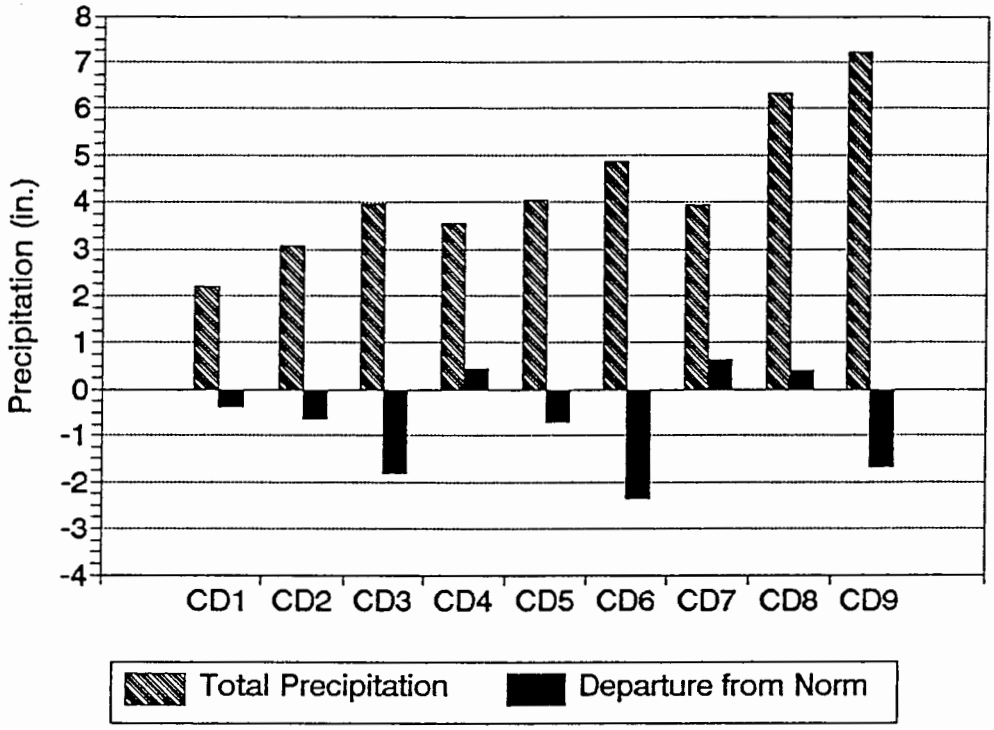
1991 and 1992 STATEWIDE PRECIPITATION
JANUARY THROUGH MARCH MONTHLY TOTALS



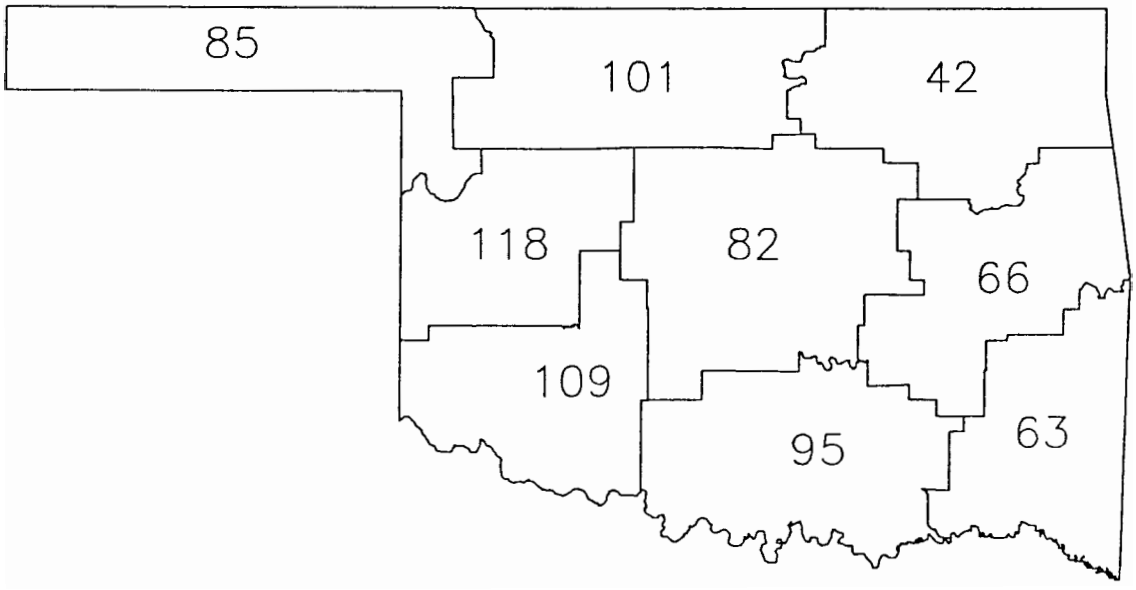
1991 and 1992 STATEWIDE TEMPERATURES
JANUARY THROUGH MARCH MONTHLY AVERAGES



CD Averaged Precipitation
January Through March 1992



MARCH 1992 CLIMATE DIVISION PERCENT OF NORMAL PRECIPITATION



EXTREME VALUES OF TEMPERATURE AND PRECIPITATION IN EACH CLIMATE DIVISION
MARCH, 1992

CD	MAX TEMP	DATE	LOCATION	MIN TEMP	DATE	LOCATION	24-HOUR PRECIP	DATE	LOCATION	MONTHLY PRECIP	LOCATION
1	82	7	GAGE FAA APT	14	10	ARNETT	.87	28	ARNETT	1.77	ARNETT
				14	10	GUYMON					
2	83	7	FREEDOM	16	10	FT SUPPLY	3.50	18	BLACKWELL	5.37	BLACKWELL
	83	16	FREEDOM								
3	83	7	MANNFORD	19	11	BARNSDALL	1.00	9	JAY TOWER	2.28	CLEVELAND
	83	7	RALSTON	19	11	KANSAS					
				19	11	HULAH DAM					
				19	11	PRYOR					
				19	11	RALSTON					
4	83	7	REYDON	18	10	HAMMON	4.10	18	CLINTON	4.98	CLINTON
				18	11	HAMMON					
5	85	7	NORMAN	19	11	STILLWATER	2.33	4	SEMINOLE	3.25	KONAWA
6	84	8	LAKE EUFAULA	17	11	STILWELL	1.78	9	HARTSHORNE	3.73	QUINTON
	84	7	MCALESTER								
	84	7	MCCURTAIN								
7	83	7	CARNEGIE	20	11	CARNEGIE	1.89	4	LAWTON	3.46	GRANDFIELD
				20	11	WICHITA MT					
8	85	7	TISHOMINGO	21	11	CHICKASAW RA	2.71	4	CHICKASAW RA	4.55	LEHIGH
				21	11	LINDSAY					
				21	11	PAULS VALLEY					
9	85	7	WILBURTON	20	11	POTEAU	1.74	18	HUGO	3.91	HUGO
				20	11	TUSKAHOMA					
				20	11	WILBURTON					

TABLE OF 1991/1992 COMPARISON

Station	March Temperature (F) 1991	1992	March Precipitation (in.) 1991	1992
Arnett	49.1	50.1	.82	1.77
Enid	50.7	53.1	1.28	1.27
Mutual	50.0	50.7	1.25	1.94
Tulsa	56.4	55.9	1.02	1.14
Elk City	54.8	54.5	1.67	2.14
Oklahoma City	55.3	54.9	1.59	1.01
McAlester	55.7	55.5	2.38	2.27
Altus Irr Sta	56.0	55.5	1.59	.92
Durant	55.0	55.5	2.74	3.20
Ada	55.1	54.3	2.09	3.41
Antlers	56.5	55.9	4.56	2.13

EXTREMES

Variable	Station	Division	Observation	Date
Minimum temperature (F)	Boise City	1	10	10
Maximum temperature (F)	Buffalo	1	89	7
Maximum 24-hour precipitaion	Clinton	4	4.10"	18

MARCH 1992 SUMMARY FOR NORTHWEST DIVISION (CD1)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
ARNETT	332	1	50.1	31	4.3	79.	8	14.	10	463.0	-132.0	.0	.0	1.773	31	.14	.87	28
BEAVER	593	1	49.4	31	4.8	81.	3	13.	10	483.5	-148.5	.0	.0	.552	31	-.90	.41	28
BOISE CITY 2 E	908	1	48.3	31	3.0	76.	16	10.	10	518.5	-92.5	.0	.0	.113	31	-.77	.05	31
BUFFALO	1243	1	53.2	31	4.2	89.	7	15.	10	371.5	-134.5	7.0	-3.0	1.050	31	-.81	.30	31
FARGO	3070	1	*****	0	*****	****	0	****	0	******	******	******	******	1.100	31	-.53	.57	28
GAGE FAA APT	3407	1	52.5	31	4.5	82.	7	16.	10	386.5	-147.5	.0	-7.0	1.083	31	-.43	.66	28
GATE	3489	1	52.0	31	6.2	83.	3	18.	10	404.5	-197.5	1.0	-6.0	.335	31	-1.35	.29	28
GOODWELL RES ST	3628	1	48.9	31	5.0	79.	17	15.	10	500.0	-154.0	.0	.0	.488	31	-.38	.33	4
GUYMON	3835	1	50.9	26	*****	80.	2	14.	10	367.0	******	.0	******	.391	28	*****	.32	4
HOOKER	4298	1	49.0	31	3.1	80.	3	14.	10	494.5	-97.5	.0	.0	.471	31	-.69	.30	28
KENTON	4766	1	47.2	30	4.2	75.	16	16.	10	535.0	-147.0	.0	.0	.310	31	-.47	.25	31
LAVERNE	5045	1	*****	0	*****	****	0	****	0	******	******	******	******	.552	31	-1.15	.35	28
OPTIMA LAKE	6740	1	50.1	31	*****	80.	17	15.	10	463.0	******	.0	******	.613	31	*****	.33	4
REGNIER	7534	1	*****	0	*****	****	0	****	0	******	******	******	******	.256	31	-.47	.20	8
TURPIN 4 SSE	9017	1	49.5	31	*****	80.	3	14.	10	479.5	******	.0	******	.331	31	*****	.23	28

MARCH 1992 SUMMARY FOR NORTH CENTRAL DIVISION (CD2)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
ALVA	193	2	53.6	31	*****	82.	1	21.	10	352.5	******	.5	******	1.670	31	*****	.60	9
VANCE AFB	302	2	*****	0	*****	****	0	****	0	******	******	******	******	1.553	30	*****	.58	4
BILLINGS	755	2	51.9	31	4.1	80.	8	20.	23	408.5	-132.5	1.0	-7.0	1.796	31	-.89	1.05	4
BLACKWELL 2E	818	2	51.4	31	3.3	77.	7	23.	11	421.0	-109.0	.0	-6.0	5.372	31	2.97	3.50	18
BRAMAN	1075	2	*****	0	*****	****	0	****	0	******	******	******	******	2.882	31	*****	1.39	18
CEDARDALE	1620	2	*****	0	*****	****	0	****	0	******	******	******	******	1.292	31	*****	.43	4
CHEROKEE	1724	2	54.2	31	4.7	79.	1	21.	10	333.5	-156.5	.0	-9.0	2.540	31	.10	.80	28
ENID	2912	2	53.1	30	3.2	78.	1	22.	10	356.5	-121.5	.0	-10.0	1.270	31	-1.02	.66	4
FT SUPPLY DAM	3304	2	52.1	31	6.1	81.	17	16.	10	399.5	-196.5	.0	-7.0	1.161	31	-.46	.57	29
FREEDOM	3358	2	53.7	31	5.0	83.	16	17.	10	354.0	-161.0	4.0	-6.0	.892	31	-.97	.42	28
GREAT SALT PLNS	3740	2	52.2	31	5.2	81.	2	22.	10	398.0	-166.0	.0	-6.0	1.043	28	*****	.44	4
HARDY	3909	2	*****	0	*****	****	0	****	0	******	******	******	******	2.311	31	*****	1.10	17
HELENA 1 SSE	4019	2	51.4	31	5.1	79.	8	18.	10	422.0	-158.0	.0	.0	.740	31	-1.65	.31	4
JEFFERSON	4573	2	51.5	31	2.4	79.	7	18.	11	418.5	-81.5	.0	-7.0	1.703	31	-.89	.57	17
LAMONT	5013	2	*****	0	*****	****	0	****	0	******	******	******	******	1.251	31	*****	.62	4
MEDFORD	5768	2	*****	0	*****	****	0	****	0	******	******	******	******	3.421	31	*****	1.83	17
MORRISON	6065	2	*****	0	*****	****	0	****	0	******	******	******	******	.870	31	*****	.64	4
MUTUAL	6139	2	50.7	31	4.5	78.	2	18.	10	442.0	-141.0	.0	.0	1.940	31	-.12	.69	18
NEWKIRK	6278	2	51.8	31	3.0	79.	7	22.	11	409.0	-103.0	.0	-10.0	3.402	31	1.03	2.15	18
ORIENTA	6751	2	*****	0	*****	****	0	****	0	******	******	******	******	1.340	31	-.75	.35	4
PERRY	7012	2	55.0	31	4.5	81.	7	24.	10	317.5	-146.5	6.0	-8.0	2.290	31	-.42	1.90	4
PONCA CITY FAA	7201	2	54.7	31	6.8	82.	7	23.	11	325.0	-213.0	6.0	-2.0	2.413	31	-.12	1.12	4
RED ROCK 1 NNE	7505	2	*****	0	*****	****	0	****	0	******	******	******	******	1.310	31	-1.28	.90	4
WAYNOKA	9404	2	53.3	31	3.9	82.	7	18.	10	362.5	-131.5	1.0	-9.0	1.370	31	-.54	.63	4
WOODWARD	9760	2	*****	0	*****	****	0	****	0	******	******	******	******	1.001	31	-.82	.41	4

MARCH 1992 SUMMARY FOR NORTHEAST DIVISION (CD3)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
BARNSDALL	535	3	52.6	31	2.5	80.	7	19.	11	387.0	-85.0	3.0	-7.0	.872	31	-2.83	.31	18
BARTLESVILLE 2W	548	3	52.6	31	2.4	81.	7	21.	23	387.5	-80.5	4.0	-5.0	.803	31	-2.45	.29	5
BIXBY	782	3	52.1	30	3.6	82.	8	22.	12	391.0	-129.0	3.5	-4.5	1.400	31	-1.75	.37	4
BURBANK	1256	3	*****	0	*****	****	0	****	0	******	******	******	******	1.064	31	-1.93	.45	31
CHELSEA 4 S	1717	3	*****	0	*****	****	0	****	0	******	******	******	******	.930	31	*****	.51	5
CLAREMORE	1828	3	51.7	31	3.7	80.	8	20.	11	414.0	-118.0	2.5	-2.5	.940	31	-2.64	.46	5
CLEVELAND 5 WSW	1902	3	54.5	29	*****	82.	7	22.	11	308.5	******	5.0	******	2.280	31	*****	.77	9
FORAKER	3250	3	*****	0	*****	****	0	****	0	******	******	******	******	1.340	31	-1.48	.48	4
HOLLOW	4258	3	*****	0	*****	****	0	****	0	******	******	******	******	1.714	31	-1.97	.89	5
HOMINY	4289	3	*****	0	*****	****	0	****	0	******	******	******	******	1.173	31	-2.27	.38	18
HULAH DAM	4393	3	51.9	19	*****	82.	9	19.	11	255.0	******	5.5	******	1.090	23	*****	.53	5
JAY TOWER	4567	3	50.3	31	*****	80.	8	20.	12	460.5	******	4.0	******	1.510	31	*****	1.00	9
KANSAS 1 ESE	4672	3	52.3	30	1.8	78.	6	19.	11	384.5	-79.5	2.0	-10.0	1.096	30	*****	.65	9
KEYSTONE DAM	4812	3	51.8	28	*****	82.	9	20.	11	376.0	******	5.5	******	.972	27	*****	.58	4
LENAPAH	5118	3	*****	0	*****	****	0	****	0	******	******	******	******	1.530	31	*****	.69	5
MANNFORD 6 NW	5522	3	54.4	30	3.5	83.	7	20.	11	322.5	-125.5	3.5	-7.5	1.271	31	-2.03	.68	4
MARAMEC	5540	3	*****	0	*****	****	0	****	0	******	******	******	******	1.480	31	-1.72	.98	4
MIAMI	5855	3	50.6	31	2.7	80.	8	20.	12	449.0	-88.0	3.0	-4.0	2.332	31	-1.76	1.25	19
NOWATA	6485	3	53.1	31	3.5	79.	7	21.	11	374.5	-109.5	4.5	-1.5	1.360	31	-2.25	.79	4
ONETA 1 WNW	6713	3	*****	0	*****	****	0	****	0	******	******	******	******	1.460	31	*****	.43	9
PAWHUSKA	6935	3	53.3	31	3.7	81.	8	20.	11	368.5	-117.5	6.0	-3.0	1.301	31	-1.95	.50	5
PAWNEE	6940	3	*****	0	*****	****	0	****	0	******	******	******	******	1.090	31	-2.00	.70	4
PRYOR 6 N	7309	3	50.5	31	2.5	80.	8	19.	11	452.0	-82.0	4.0	-3.0	.646	31	-2.92	.24	5
RALSTON	7390	3	55.1	31	5.1	83.	7	19.	11	315.0	-157.0	7.0	.0	1.080	31	-1.99	.55	5
RAMONA 4 N	7394	3	*****	0	*****	****	0	****	0	******	******	******	******	1.623	31	*****	.70	6
SKIATOOK	8258	3	*****	0	*****	****	0	****	0	******	******	******	******	.500	31	-2.78	.18	19
SPAVINAW	8380	3	54.4	31	3.2	81.	7	22.	11	336.5	-103.5	9.0	-3.0	.822	31	-2.76	.49	9
TULSA WSO APT	8992	3	55.9	31	5.3	81.	7	27.	11	287.5	-169.5	5.5	-5.5	1.144	31	-2.32	.77	4
UPPER SPAVINAW	9101	3	51.6	31	*****	81.	7	22.	23	415.0	******	.0	******	1.535	31	*****	.92	9
VINITA 2 N	9203	3	51.9	31	3.0	80.	8	19.	11	409.0	-97.0	2.5	-4.5	1.170	31	-2.78	.57	18
WAGONER	9247	3	54.2	31	2.5	80.	7	22.	11	337.0	-88.0	2.5	-10.5	1.852	31	-1.72	.76	9
WANN	9298	3	*****	0	*****	****	0	****	0	******	******	******	******	1.000	31	*****	.35	5
WYNONA	9792	3	*****	0	*****	****	0	****	0	******	******	******	******	1.171	31	*****	.66	18

MARCH 1992 SUMMARY FOR WEST CENTRAL DIVISION (CD4)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
CANTON DAM	1445	4	51.2	29	*****	80.	8	20.	10	400.0	******	.0	******	1.023	29	*****	.25	4
CHEYENNE	1738	4	*****	0	*****	****	0	****	0	******	******	******	******	.900	31	-.70	.35	4
CLINTON	1909	4	54.8	31	4.0	80.	7	20.	10	316.5	-132.5	.0	-9.0	4.981	31	2.95	4.10	18
COLONY	2039	4	*****	0	*****	****	0	****	0	******	******	******	******	1.510	31	*****	.65	18
CORDELL	2125	4	*****	0	*****	****	0	****	0	******	******	******	******	1.980	31	.03	.98	18
ELK CITY 1 E	2849	4	54.3	31	4.3	79.	7	20.	10	330.5	-141.5	.0	-7.0	2.141	31	.10	1.38	4
ERICK 4 E	2944	4	54.4	31	4.2	81.	7	20.	10	330.0	-135.0	.0	-6.0	2.200	31	.50	.78	18
GEARY	3497	4	53.3	31	3.4	80.	7	22.	10	361.5	-113.5	.0	-7.0	1.330	31	-.74	.54	18
HAMMON 1 NNE	3871	4	50.8	28	*****	80.	8	18.	11	396.5	******	.0	******	1.552	29	*****	.93	4
LEEDEY	5090	4	*****	0	*****	****	0	****	0	******	******	******	******	1.320	31	-.40	.92	4
MACKIE 4 NNW	5463	4	*****	0	*****	****	0	****	0	******	******	******	******	1.380	31	*****	.62	4
MORAVIA 2 NNE	6035	4	*****	0	*****	****	0	****	0	******	******	******	******	2.940	31	1.13	2.00	4
OKEENE	6629	4	53.7	31	3.2	79.	7	21.	10	352.5	-105.5	2.0	-7.0	2.020	31	-.12	.84	4
RETROP	7565	4	*****	0	*****	****	0	****	0	******	******	******	******	2.010	31	*****	.99	18
REYDON	7579	4	55.3	31	6.5	83.	7	19.	10	302.5	-207.5	1.0	-7.0	1.441	31	-.14	.60	4
SAYRE	7952	4	*****	0	*****	****	0	****	0	******	******	******	******	1.790	31	.26	.69	4
SWEETWATER 2 E	8652	4	*****	0	*****	****	0	****	0	******	******	******	******	1.600	31	*****	.79	3
TALOGA	8708	4	52.0	31	3.1	78.	7	20.	23	402.0	-104.0	.0	-7.0	2.080	31	.17	.98	4
THOMAS	8815	4	*****	0	*****	****	0	****	0	******	******	******	******	.950	31	*****	.41	27
VICI	9172	4	*****	0	*****	****	0	****	0	******	******	******	******	.840	31	-1.39	.60	4
WATONGA	9364	4	53.8	31	4.2	82.	7	22.	10	350.0	-134.0	2.5	-4.5	1.380	31	-.83	.51	4
WEATHERFORD	9422	4	53.5	31	5.5	80.	8	22.	11	357.5	-169.5	.0	.0	2.180	31	.27	1.13	18

MARCH 1992 SUMMARY FOR CENTRAL DIVISION (CD5)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
AMBER	200	5	*****	0	*****	****	0	****	0	******	******	******	******	1.760	31	*****	.90	24
ARCADIA	288	5	*****	0	*****	****	0	****	0	******	******	******	******	.980	31	*****	.52	4
TINKER AFB	325	5	*****	0	*****	****	0	****	0	******	******	******	******	1.046	31	*****	.72	4
BLANCHARD 2 SSW	830	5	55.1	31	2.6	83.	7	23.	11	310.0	-91.0	4.0	-9.0	.754	31	-1.94	.48	5
BRISTOW	1144	5	54.5	31	2.8	82.	7	20.	11	333.5	-90.5	8.5	-3.5	2.303	31	-.74	1.02	4
CHANDLER	1684	5	55.3	29	*****	86.	7	21.	11	294.0	******	13.0	******	1.840	31	-1.08	.96	4
CHICKASHA EX ST	1750	5	53.7	31	1.5	81.	7	20.	11	349.5	-59.5	.0	-12.0	.901	31	-1.60	.67	4
COX CITY 1 E	2196	5	*****	0	*****	****	0	****	0	******	******	******	******	1.650	31	*****	.71	4
CRESCENT	2242	5	*****	0	*****	****	0	****	0	******	******	******	******	2.570	31	*****	1.80	5
CUSHING	2318	5	53.8	31	5.0	80.	8	24.	12	351.5	-159.5	4.5	-4.5	1.510	31	-1.59	.80	4
EL RENO 1 N	2818	5	53.9	31	3.6	78.	7	23.	10	345.5	-117.5	.5	-7.5	2.650	31	.31	2.02	4
GUTHRIE	3821	5	55.9	31	4.6	84.	7	23.	11	292.5	-143.5	11.5	.5	2.442	31	-.38	1.20	4
HENNESSEY 2 SE	4055	5	52.2	31	2.4	76.	7	22.	11	395.5	-83.5	.0	-8.0	2.130	31	-.22	.89	4
INGALLS	4489	5	*****	0	*****	****	0	****	0	******	******	******	******	1.135	31	*****	.62	4
KINGFISHER 2 SE	4861	5	53.7	31	2.8	81.	7	22.	11	353.0	-93.0	2.5	-6.5	1.760	31	-.49	.96	4
KONAWA	4915	5	*****	0	*****	****	0	****	0	******	******	******	******	3.250	31	.04	1.76	4
MARSHALL	5589	5	*****	0	*****	****	0	****	0	******	******	******	******	1.510	31	-.96	1.10	4
MULHALL	6110	5	*****	0	*****	****	0	****	0	******	******	******	******	1.420	31	*****	1.26	4
NORMAN 3 S	6386	5	55.9	31	3.5	85.	7	23.	11	285.0	-119.0	2.5	-10.5	1.943	31	-.95	1.00	4
OILTON 2 SE	6616	5	*****	0	*****	****	0	****	0	******	******	******	******	1.500	31	*****	.89	3
OKEMAH	6638	5	55.4	31	3.4	83.	7	26.	11	304.5	-112.5	5.5	-8.5	2.582	31	-.57	1.22	4
OKLAHOMA CTY WS	6661	5	54.9	31	4.6	82.	7	26.	10	317.5	-146.5	3.5	-5.5	1.015	31	-1.69	.60	4
PERKINS	7003	5	*****	0	*****	****	0	****	0	******	******	******	******	1.310	31	-1.59	.72	4
PIEDMONT	7068	5	*****	0	*****	****	0	****	0	******	******	******	******	2.520	31	*****	1.83	4
PRAGUE	7264	5	*****	0	*****	****	0	****	0	******	******	******	******	1.681	31	-1.50	1.10	4
PURCELL 5 SW	7327	5	54.2	31	1.7	82.	7	21.	11	334.5	-65.5	.5	-11.5	2.562	31	-.57	1.55	4
SEMINOLE	8042	5	55.7	31	2.3	84.	7	24.	11	294.0	-84.0	4.5	-13.5	3.030	31	-.24	2.33	4
SHAWNEE	8110	5	*****	0	*****	****	0	****	0	******	******	******	******	1.880	31	-1.31	1.15	4
STELLA	8479	5	*****	0	*****	****	0	****	0	******	******	******	******	2.060	31	*****	1.07	4
STILLWATER 2 W	8501	5	53.1	31	4.9	81.	7	19.	11	374.5	-152.5	6.5	.5	.954	31	-1.84	.62	4
STROUD 1 N	8563	5	*****	0	*****	****	0	****	0	******	******	******	******	2.383	31	*****	.92	4
TECUMSEH	8751	5	*****	0	*****	****	0	****	0	******	******	******	******	2.030	31	*****	1.30	4
TROUSDALE	8960	5	*****	0	*****	****	0	****	0	******	******	******	******	2.300	31	*****	1.28	4
UNION CITY 1 SE	9086	5	*****	0	*****	****	0	****	0	******	******	******	******	1.942	31	-.97	1.81	4
WELTY 1 SSE	9479	5	*****	0	*****	****	0	****	0	******	******	******	******	1.721	31	*****	1.03	4
WEWOKA	9575	5	*****	0	*****	****	0	****	0	******	******	******	******	2.620	31	-.63	.95	4

MARCH 1992 SUMMARY FOR EAST CENTRAL DIVISION (CD6)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
ASHLAND	364	6	*****	0	*****	****	0	****	0	******	******	******	******	2.511	31	*****	.75	18
BEGGS	631	6	*****	0	*****	****	0	****	0	******	******	******	******	2.630	31	*****	1.18	22
BOYNTON	1027	6	*****	0	*****	****	0	****	0	******	******	******	******	1.991	31	*****	1.06	22
CALVIN	1391	6	*****	0	*****	****	0	****	0	******	******	******	******	2.444	31	-1.36	1.16	18
CHECOTAH	1711	6	*****	0	*****	****	0	****	0	******	******	******	******	2.211	31	-1.49	.73	5
DEWAR 2 NE	2485	6	*****	0	*****	****	0	****	0	******	******	******	******	2.230	31	-1.32	.69	18
DUSTIN	2690	6	*****	0	*****	****	0	****	0	******	******	******	******	1.990	31	*****	.64	9
EUFAULA	2993	6	55.3	30	1.9	83.	7	27.	11	290.5	-87.5	1.0	-18.0	2.740	30	*****	.70	4
HANNA	3884	6	54.3	31	1.6	82.	7	21.	11	333.5	-63.5	1.0	-15.0	1.901	31	-2.17	.96	18
HARTSHORNE	3946	6	*****	0	*****	****	0	****	0	******	******	******	******	3.330	31	*****	1.78	9
HASKELL	3956	6	*****	0	*****	****	0	****	0	******	******	******	******	2.530	31	-1.07	.86	9
HOLDENVILLE	4235	6	54.7	31	2.2	82.	7	21.	11	320.5	-79.5	2.5	-9.5	1.460	31	-1.88	.59	4
LAKE EUFAULA	4975	6	54.9	31	*****	84.	8	25.	11	324.5	******	12.0	******	2.710	31	*****	.83	4
LYONS 2 N	5437	6	*****	0	*****	****	0	****	0	******	******	******	******	2.402	31	-1.85	.83	22
MARBLE CITY	5546	6	*****	0	*****	****	0	****	0	******	******	******	******	2.433	31	*****	.58	9
MCALESTER FAA	5664	6	55.5	31	3.3	84.	7	21.	11	298.5	-112.5	3.5	-10.5	2.272	31	-1.73	.78	9
MCCURTAIN 1 SE	5693	6	56.8	31	3.3	84.	7	27.	23	266.5	-110.5	12.0	-8.0	2.294	31	-1.82	.92	9
MUSKOGEE	6130	6	54.2	31	2.2	80.	8	23.	11	342.5	-73.5	8.5	-4.5	1.951	31	-1.60	.56	22
OKMULGEE W W	6670	6	52.0	30	2.4	82.	7	22.	12	392.0	-95.0	1.0	-8.0	2.232	30	*****	.75	9
OKTAHA 2 NE	6678	6	*****	0	*****	****	0	****	0	******	******	******	******	2.480	31	*****	.72	23
QUINTON	7372	6	*****	0	*****	****	0	****	0	******	******	******	******	3.731	31	-.27	1.22	19
SALLISAW 2 NE	7862	6	53.7	29	*****	82.	7	23.	23	329.5	******	.5	******	2.100	31	-2.14	.70	19
SCIPIO	7979	6	*****	0	*****	****	0	****	0	******	******	******	******	2.970	31	*****	.93	18
SCRAPER	7993	6	*****	0	*****	****	0	****	0	******	******	******	******	1.420	31	*****	.50	9
SHORT	8170	6	*****	0	*****	****	0	****	0	******	******	******	******	2.872	31	*****	.58	5
STILWELL 1 NE	8506	6	52.5	31	2.0	81.	7	17.	11	389.0	-72.0	2.0	-9.0	2.212	31	-2.07	.55	9
TAHLEQUAH	8677	6	54.1	31	3.0	79.	8	19.	11	344.5	-98.5	6.0	-6.0	1.801	31	-2.29	.48	22
WEBBERS FALLS	9445	6	51.8	31	1.8	82.	8	22.	11	410.0	-62.0	.0	-7.0	2.490	31	-1.46	.70	18
WESTVILLE	9523	6	*****	0	*****	****	0	****	0	******	******	******	******	1.681	31	*****	.44	5
WETUMKA 3 NE	9571	6	*****	0	*****	****	0	****	0	******	******	******	******	1.930	31	-1.67	.64	4

MARCH 1992 SUMMARY FOR SOUTHWEST DIVISION (CD7)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
ALTUS IRR STA	179	7	55.5	28	*****	80.	26	24.	10	268.5	******	2.0	******	.920	31	-.64	.64	4
ALTUS DAM	184	7	55.0	31	4.2	82.	8	26.	12	315.5	-133.5	5.5	-3.5	1.470	31	-.26	.81	18
ANADARKO	224	7	54.0	29	*****	81.	7	21.	11	318.0	******	.0	******	1.980	31	-.19	1.08	4
APACHE	260	7	*****	0	*****	****	0	****	0	******	******	******	******	1.320	31	-1.03	1.05	4
ALTUS AFB	447	7	*****	0	*****	****	0	****	0	******	******	******	******	.484	30	*****	.30	4
CARNEGIE 2 ENE	1504	7	54.5	31	3.1	83.	7	20.	11	326.0	-104.0	1.5	-6.5	.820	31	-1.18	.45	4
CHATTANOOGA	1706	7	55.0	29	*****	79.	26	26.	11	290.5	******	.0	******	2.690	29	*****	1.23	4
DUNCAN 12 W	2668	7	*****	0	*****	****	0	****	0	******	******	******	******	2.333	31	*****	.85	8
FREDERICK	3353	7	54.5	30	2.9	80.	9	25.	10	314.0	-112.0	.0	-11.0	1.250	30	*****	.93	4
GRANDFIELD 4 NW	3709	7	*****	0	*****	****	0	****	0	******	******	******	******	3.460	31	1.34	1.77	9
HOBART FAA APT	4204	7	54.2	31	2.7	78.	26	21.	11	336.5	-91.5	2.5	-7.5	1.321	31	-.35	.49	4
HOLLIS	4249	7	55.2	24	*****	82.	16	22.	11	240.0	******	4.0	******	1.031	26	*****	.73	4
HOLLISTER	4250	7	*****	0	*****	****	0	****	0	******	******	******	******	2.980	31	*****	1.75	4
LAWTON	5063	7	55.6	31	4.3	88.	8	27.	11	292.5	-141.5	2.5	-7.5	2.860	31	.73	1.89	4
FORT SILL	5068	7	55.5	31	*****	79.	26	27.	10	296.0	******	.0	******	2.822	31	*****	1.17	3
LOOKEBA 2 ENE	5329	7	*****	0	*****	****	0	****	0	******	******	******	******	1.952	31	-.23	.64	4
MANGUM RES STA	5509	7	56.4	31	3.4	80.	26	22.	10	270.0	-117.0	2.5	-12.5	1.680	31	.15	1.01	18
RANDLETT 9 E	7403	7	*****	0	*****	****	0	****	0	******	******	******	******	.850	31	*****	.55	4
ROOSEVELT	7727	7	*****	0	*****	****	0	****	0	******	******	******	******	.570	31	-1.16	.36	4
SEDAN	8016	7	*****	0	*****	****	0	****	0	******	******	******	******	.380	31	*****	.21	4
SNYDER	8299	7	*****	0	*****	****	0	****	0	******	******	******	******	.503	31	-1.29	.27	5
VINSON 3 WNW	9212	7	*****	0	*****	****	0	****	0	******	******	******	******	1.391	31	-.08	.61	4
WALTERS	9278	7	55.4	31	1.4	82.	7	26.	11	298.0	-60.0	.0	-17.0	2.970	31	.42	1.08	8
WICHITA MT WLR	9629	7	53.0	30	3.4	78.	9	20.	11	359.5	-128.5	.0	-11.0	.840	30	*****	.65	4
WILLOW	9668	7	*****	0	*****	****	0	****	0	******	******	******	******	1.990	31	*****	1.17	4

MARCH 1992 SUMMARY FOR SOUTH CENTRAL DIVISION (CD8)

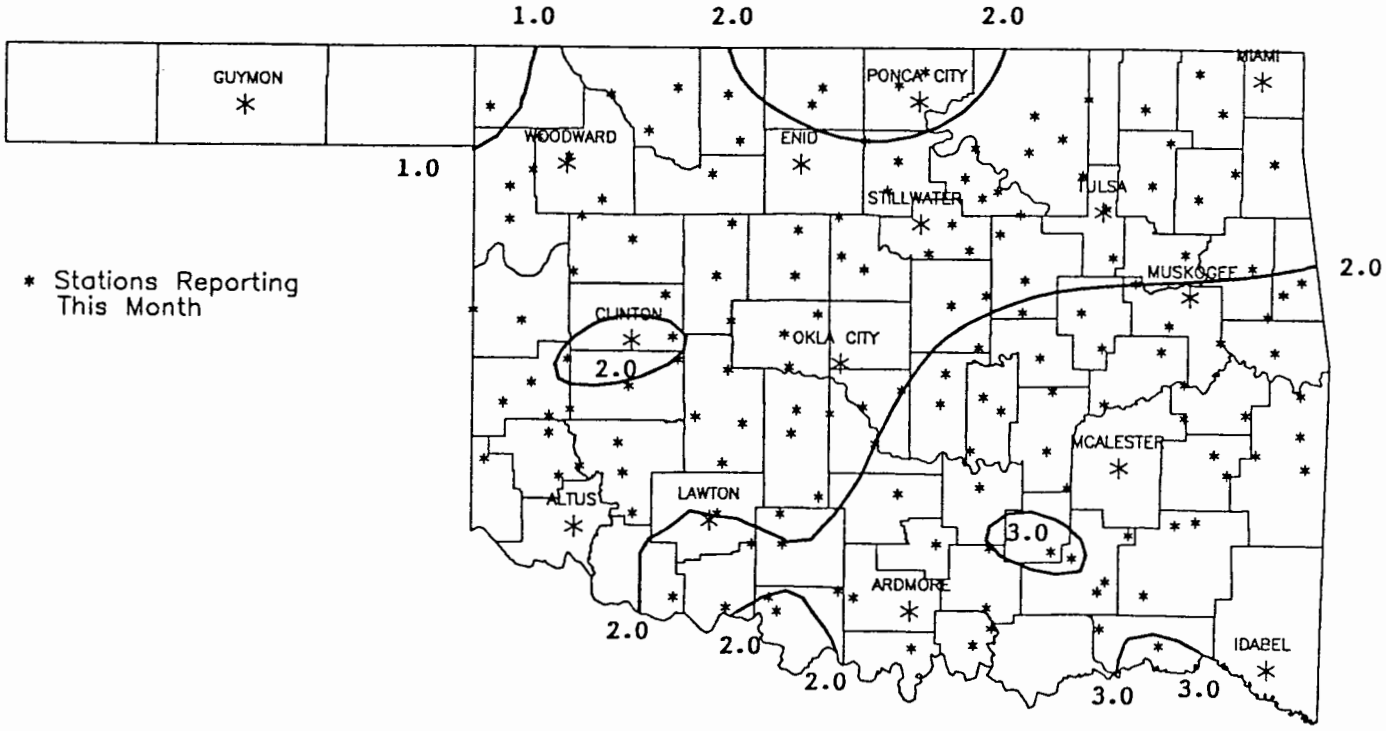
NAME	ID	CD	MEAN TEMP	NUM OBS	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
ADA	17	8	54.3	31	1.4	82.	7	23.	11	331.0	-61.0	.0	-17.0	3.410	31	.15	1.57	4
ALLEN	147	8	*****	0	*****	****	0	****	0	******	******	******	******	3.630	31	*****	1.50	9
ARDMORE	292	8	56.8	31	1.3	83.	7	27.	11	259.5	-60.5	4.0	-22.0	2.700	31	-.40	1.20	4
ATOKA DAM	394	8	52.5	31	.3	79.	8	25.	23	386.5	-24.5	.0	-15.0	4.002	31	.41	1.19	4
BOKCHITO	917	8	*****	0	*****	****	0	****	0	******	******	******	******	1.900	31	*****	.83	4
CANEY	1437	8	56.3	31	*****	80.	7	30.	23	273.5	******	3.5	******	3.720	31	*****	1.50	18
CENTRAHOMA	1648	8	*****	0	*****	****	0	****	0	******	******	******	******	1.750	31	*****	.60	4
CHICKASAW NRA	1745	8	55.0	31	3.7	84.	7	21.	11	311.5	-124.5	2.5	-8.5	4.350	31	.91	2.71	4
COLEMAN	2011	8	*****	0	*****	****	0	****	0	******	******	******	******	2.010	31	*****	.79	5
COMANCHE	2054	8	*****	0	*****	****	0	****	0	******	******	******	******	2.450	31	-.18	1.55	9
DAISY 4 ENE	2354	8	*****	0	*****	****	0	****	0	******	******	******	******	2.933	31	-1.45	.87	4
DUNCAN	2660	8	55.4	31	3.6	82.	8	26.	11	300.0	-121.0	3.5	-8.5	1.430	31	-1.16	.54	9
DURANT USDA	2678	8	55.5	31	3.2	84.	8	22.	11	302.5	-108.5	7.5	-9.5	3.200	31	-.54	1.03	18
ELMORE CITY	2872	8	*****	0	*****	****	0	****	0	******	******	******	******	1.830	30	*****	.82	3
FARRIS 3 WNW	3083	8	*****	0	*****	****	0	****	0	******	******	******	******	2.780	31	-.99	.91	18
GRADY	3688	8	*****	0	*****	****	0	****	0	******	******	******	******	3.170	31	*****	1.95	3
HEALDTON	4001	8	55.4	31	1.6	82.	7	24.	11	303.5	-62.5	4.5	-14.5	2.990	31	.08	1.50	4
HENNEPIN	4052	8	*****	0	*****	****	0	****	0	******	******	******	******	3.072	31	*****	1.56	9
KETCHUM RANCH	4780	8	*****	0	*****	****	0	****	0	******	******	******	******	2.480	31	*****	1.00	8
KINGSTON	4865	8	*****	0	*****	****	0	****	0	******	******	******	******	1.280	31	-2.28	.52	4
LEHIGH	5108	8	*****	0	*****	****	0	****	0	******	******	******	******	4.554	31	*****	.90	9
LINDSAY 2 W	5216	8	54.5	26	*****	81.	7	21.	11	274.5	******	2.5	******	1.783	26	*****	1.02	4
LOCO 6 SE	5247	8	*****	0	*****	****	0	****	0	******	******	******	******	1.960	31	*****	1.19	18
MADILL	5468	8	56.5	31	2.1	83.	7	25.	11	267.0	-82.0	3.0	-17.0	1.940	31	-1.56	1.02	3
MARIETTA	5563	8	57.3	31	2.7	83.	7	25.	11	244.0	-98.0	5.5	-14.5	1.792	31	-1.52	.82	4
MARLOW 1 WSW	5581	8	56.1	31	3.1	83.	7	23.	11	285.5	-100.5	10.5	-3.5	1.201	31	-1.24	.44	9
MCGEE CREEK DAM	5713	8	54.5	31	*****	84.	8	24.	11	328.5	******	3.0	******	3.011	31	*****	.84	4
PAULS VALLEY	6926	8	55.5	31	2.1	84.	7	21.	11	301.0	-73.0	5.0	-10.0	1.411	31	-1.51	.73	4
PONTOTOC	7214	8	*****	0	*****	****	0	****	0	******	******	******	******	2.771	31	-.88	1.25	3
TISHOMINGO NWLR	8884	8	55.5	26	*****	85.	7	25.	11	252.0	******	5.5	******	1.930	31	-1.77	.55	9
TUSSY	9032	8	*****	0	*****	****	0	****	0	******	******	******	******	3.380	31	*****	1.20	8
WAURIKA	9395	8	56.0	31	1.2	84.	7	26.	11	283.5	-55.5	3.0	-20.0	1.802	31	-.56	1.32	9
WAURIKA DAM	9399	8	56.0	31	*****	84.	8	25.	11	284.0	******	4.5	******	1.501	31	*****	1.02	4

MARCH 1992 SUMMARY FOR SOUTHEAST DIVISION (CD9)

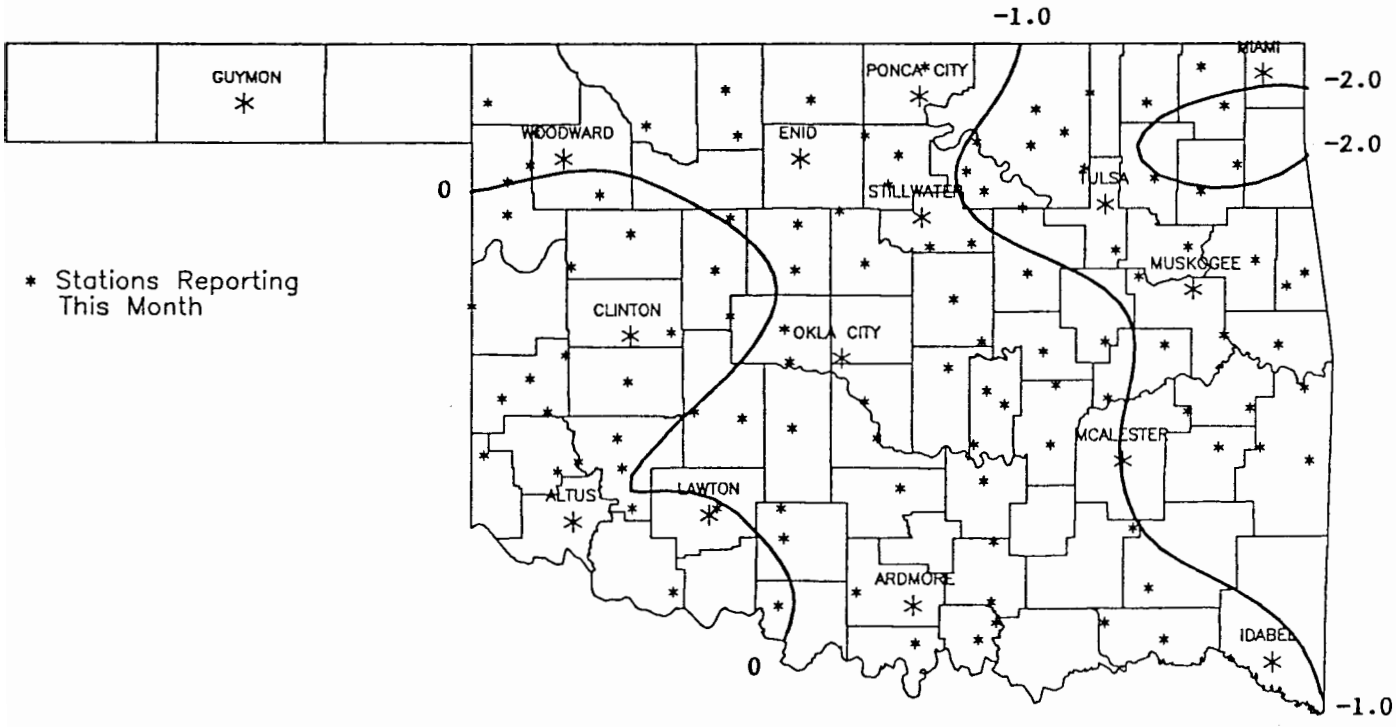
NAME	ID	CD	MEAN TEMP	NUM OBS	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
ANTLERS	256	9	56.1	31	2.2	84.	7	23.	11	281.5	-81.5	6.5	-12.5	2.130	31	-1.66	.66	17
BATTIEST 1 SSW	567	9	53.0	31	*****	81.	7	20.	11	372.0	******	.0	******	5.370	31	*****	2.44	18
BEAR MT TWR	584	9	55.5	31	.8	82.	8	26.	23	302.5	-37.5	6.5	-14.5	4.921	31	.18	2.33	18
BENGAL	670	9	*****	0	*****	****	0	****	0	******	******	******	******	2.051	31	*****	.66	4
BOSWELL 4 NNW	980	9	56.5	31	2.3	84.	7	27.	23	270.0	-81.0	6.0	-10.0	3.256	31	-.52	1.06	4
BROKEN BOW 1 N	1162	9	*****	0	*****	****	0	****	0	******	******	******	******	5.770	31	.88	2.14	19
BROKEN BOW DAM	1168	9	53.7	31	1.5	85.	8	24.	11	352.0	-53.0	1.0	-8.0	7.233	31	1.92	3.42	18
CARNASAW TWR	1499	9	*****	0	*****	****	0	****	0	******	******	******	******	6.970	31	1.71	3.08	18
CARTER TWR	1544	9	*****	0	*****	****	0	****	0	******	******	******	******	5.570	31	.71	2.56	18
FANSHAWE	3065	9	*****	0	*****	****	0	****	0	******	******	******	******	1.680	31	-2.65	.55	18
FLAGPOLE TWR	3169	9	*****	0	*****	****	0	****	0	******	******	******	******	2.040	31	*****	1.20	9
HEAVENER 1 SE	4008	9	*****	0	*****	****	0	****	0	******	******	******	******	2.260	31	-1.82	.90	18
HEE MT TWR	4017	9	*****	0	*****	****	0	****	0	******	******	******	******	3.612	31	-1.61	1.48	18
HUGO	4384	9	57.4	31	1.9	83.	7	27.	11	245.0	-71.0	8.5	-12.5	3.911	31	-.28	1.74	18
IDABEL	4451	9	54.7	31	1.3	84.	8	25.	11	321.0	-50.0	1.5	-10.5	4.341	31	-.51	1.44	4
POTEAU W W	7254	9	53.6	31	*****	83.	8	20.	11	354.5	******	.0	******	2.175	31	*****	.56	17
SMITHVILLE 1 W	8285	9	53.6	17	*****	86.	7	25.	24	200.5	******	7.5	******	3.604	23	*****	1.65	17
SPIRO	8416	9	*****	0	*****	****	0	****	0	******	******	******	******	2.010	31	-2.30	.71	18
TUSKAHOMA	9023	9	56.0	31	2.0	83.	7	20.	11	289.5	-69.5	11.0	-7.0	2.142	31	-1.99	.69	18
VALLIANT 3 W	9118	9	*****	0	*****	****	0	****	0	******	******	******	******	5.431	31	.97	3.34	18
WILBURTON 9 ENE	9634	9	54.5	31	1.8	85.	7	20.	11	328.0	-68.0	1.0	-13.0	3.444	31	-.73	.90	3

MARCH 1992 CLIMATE DIVISION SUMMARY

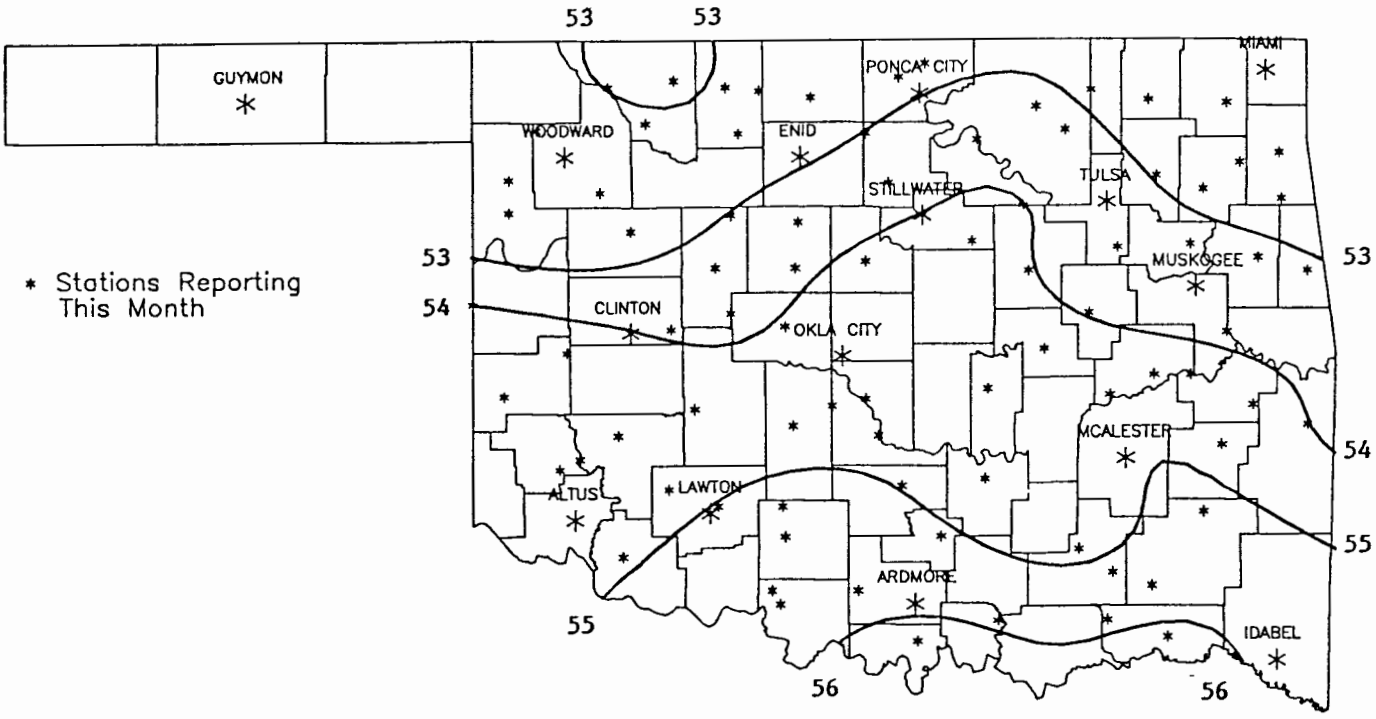
CLIMATE DIV	MEAN TEMP	NUM STA	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEGREE DAYS	DEV FROM NORM	COOL DEGREE DAYS	DEV FROM NORM	TOT PPT	NUM STA	DEV FROM NORM	MAX 24-HR	DAY
1	50.0	11	4.3	89.0	7	10.0	10	463.6	-137.3	.7	-1.9	.64	14	-.68	.87	28
2	52.7	15	4.4	83.0	16	16.0	10	381.3	-144.1	1.2	-6.4	1.92	23	-.35	3.50	18
3	52.7	17	3.3	83.0	7	19.0	11	381.8	-107.6	3.9	-4.3	1.28	30	-2.15	1.25	19
4	53.9	9	4.5	83.0	7	18.0	11	344.8	-144.5	.6	-6.1	1.85	20	-.06	4.10	18
5	54.4	14	3.1	86.0	7	19.0	11	331.5	-104.3	3.9	-7.2	1.88	36	-.99	2.33	4
6	54.2	11	2.4	84.0	7	17.0	11	337.5	-85.1	4.5	-8.8	2.32	28	-1.55	1.78	9
7	54.9	9	2.9	88.0	8	20.0	11	312.0	-101.5	1.6	-9.7	1.73	20	-.21	1.89	4
8	55.5	15	2.2	85.0	7	21.0	11	297.4	-80.5	4.0	-12.9	2.60	31	-.65	2.71	4
9	55.1	10	1.5	86.0	7	20.0	11	311.6	-57.6	4.2	-11.7	3.82	20	-.75	3.42	18



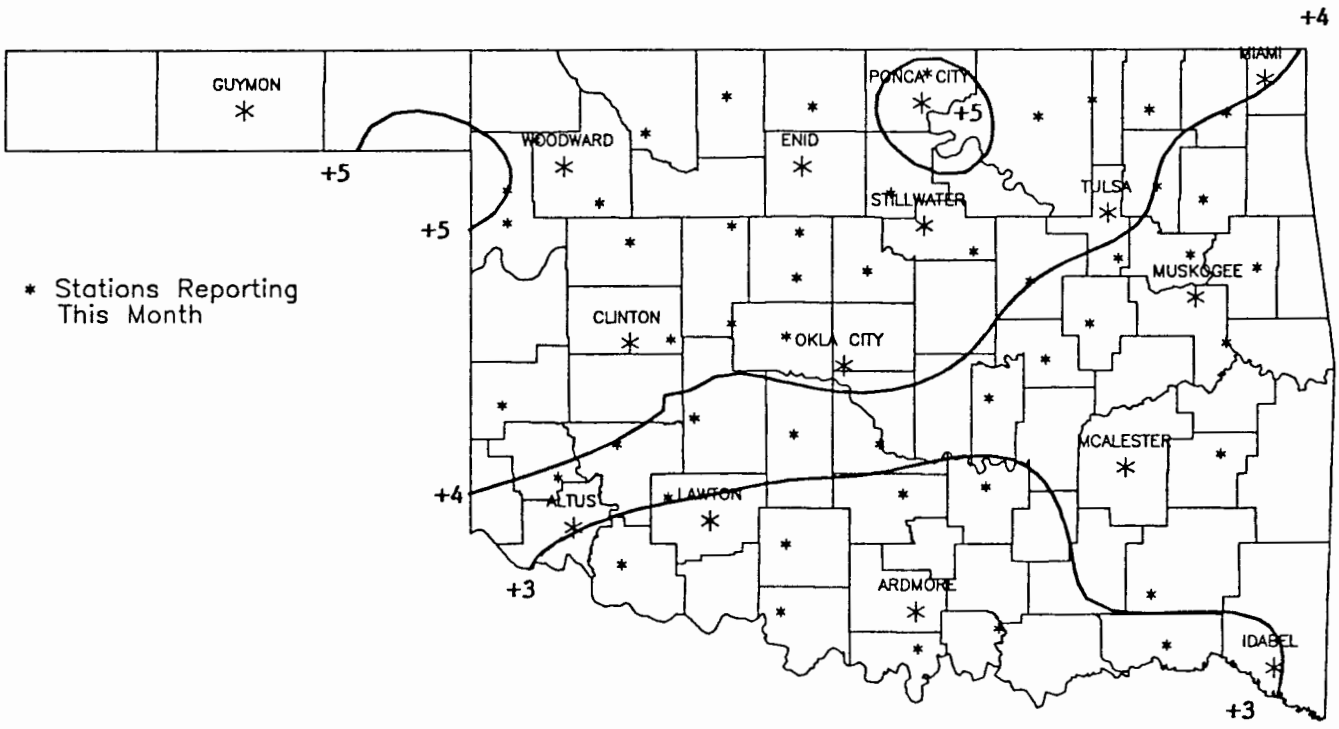
MARCH 1992 TOTAL PRECIPITATION
(Inches)



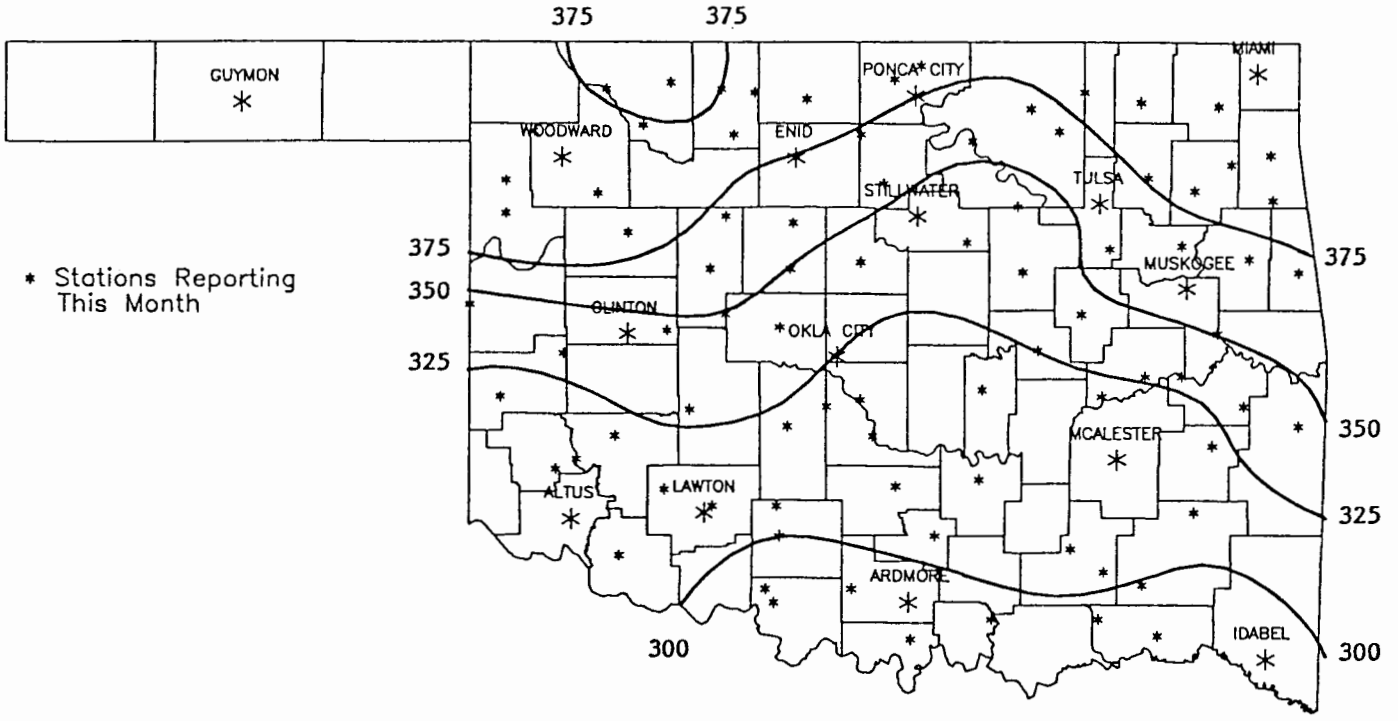
MARCH 1992 DEVIATION FROM NORMAL PRECIPITATION
(Inches)



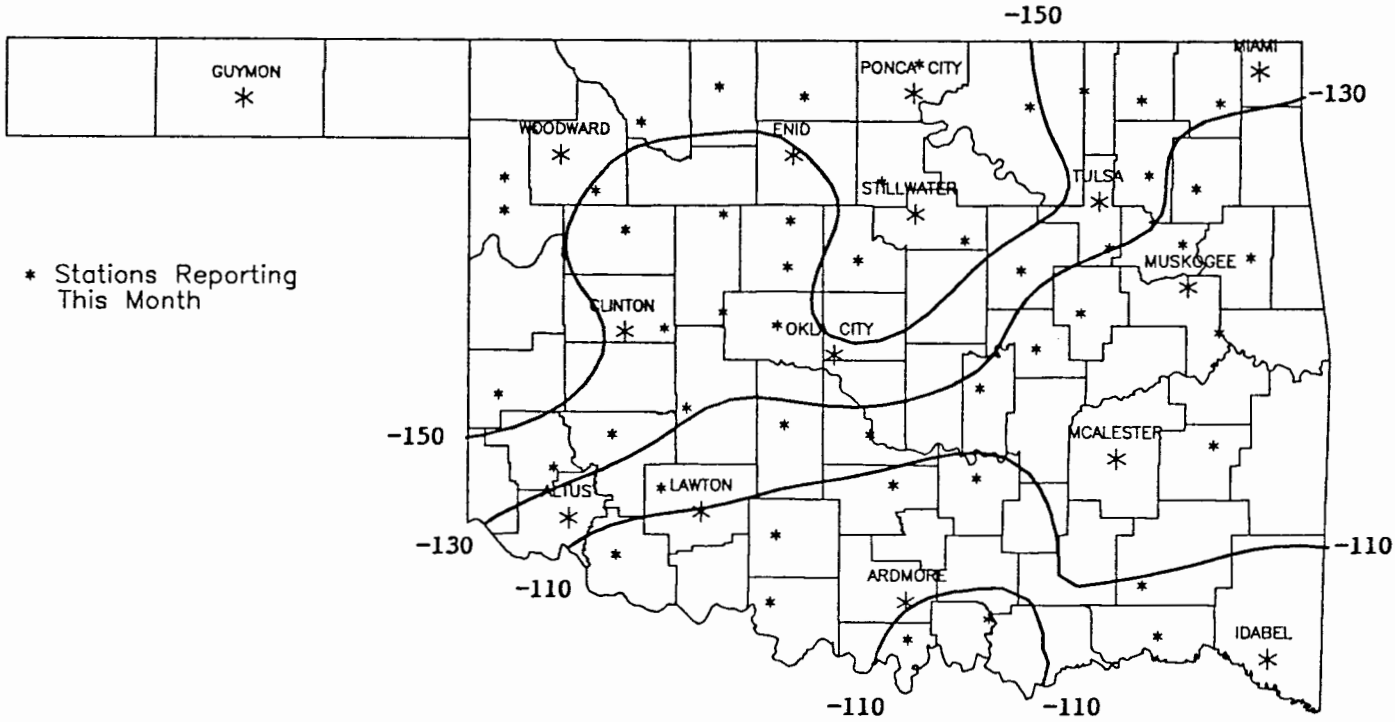
MARCH 1992 AVERAGE MONTHLY TEMPERATURES
(Degrees F)



MARCH 1992 DEVIATION FROM NORMAL TEMPERATURES
(Degrees F)

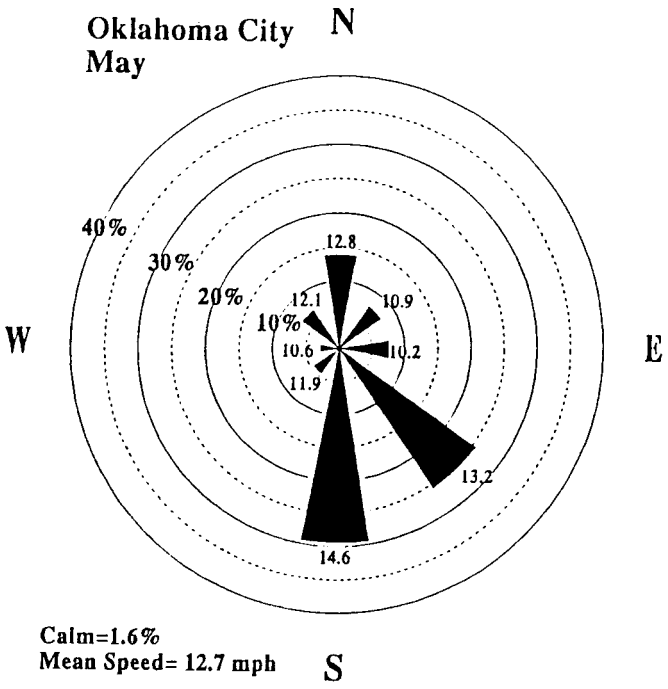


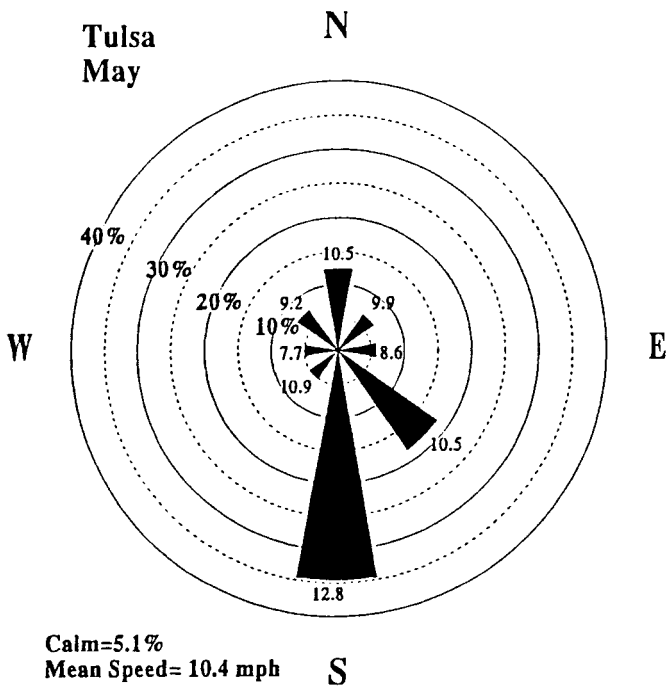
MARCH 1992 HEATING DEGREE DAYS



MARCH 1992 DEVIATION FROM NORMAL HEATING DEGREE DAYS

May wind roses for Oklahoma City and Tulsa. Percents represent the percentage of winds coming from a direction. The numbers at the end of the bars indicate the average speed (miles per hour) of winds from that direction.





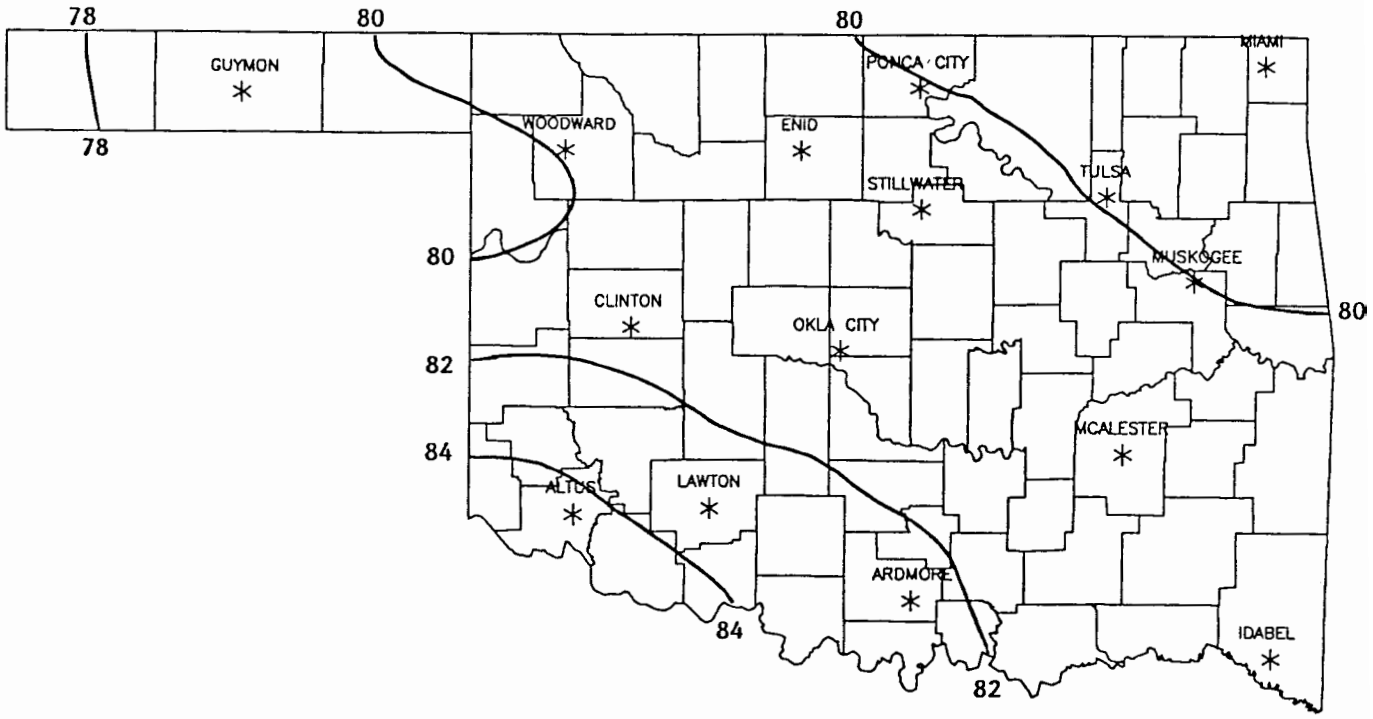
MAY 1992 SUNRISE AND SUNSET

OKLAHOMA CITY

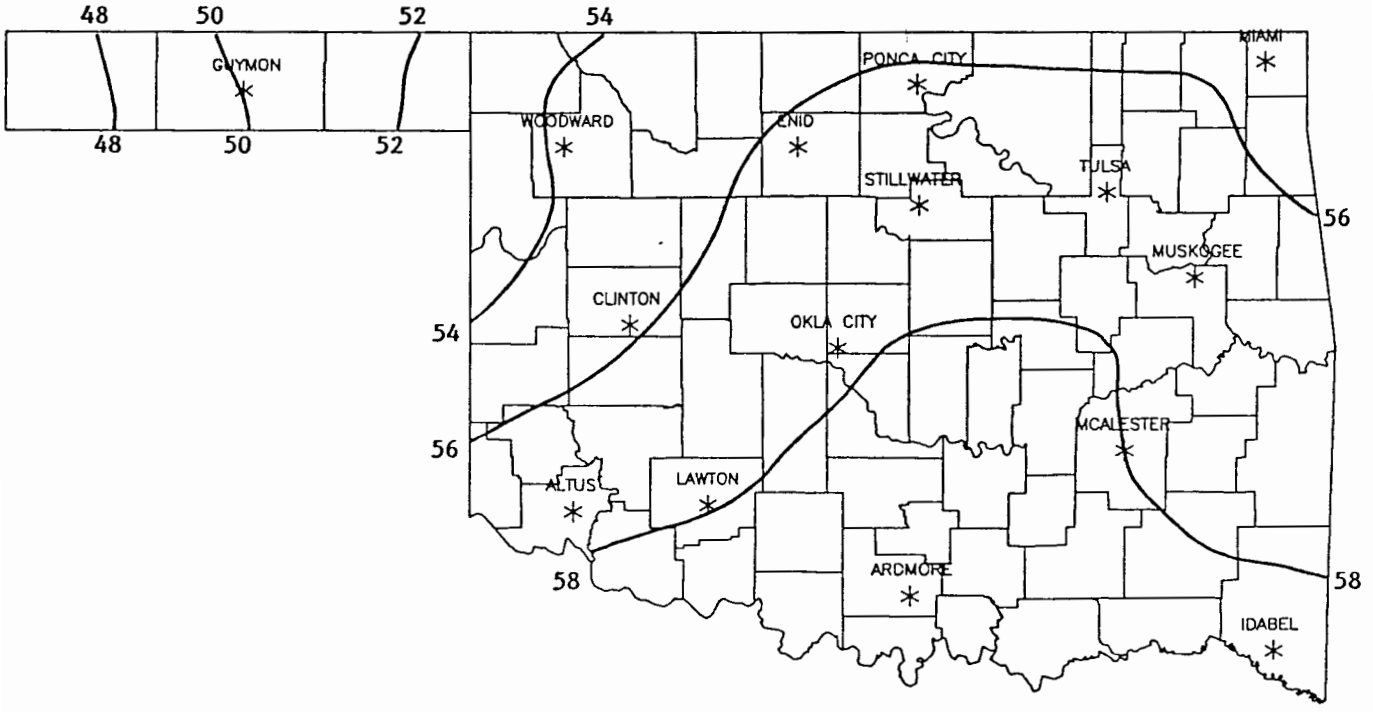
DATE	SUNRISE	SUNSET	DAYLIGHT
92 5 1	6:39AM	8:15PM CDT	13 hrs 36 mins
92 5 2	6:38AM	8:16PM CDT	13 hrs 38 mins
92 5 3	6:37AM	8:17PM CDT	13 hrs 40 mins
92 5 4	6:36AM	8:18PM CDT	13 hrs 41 mins
92 5 5	6:35AM	8:18PM CDT	13 hrs 43 mins
92 5 6	6:34AM	8:19PM CDT	13 hrs 45 mins
92 5 7	6:33AM	8:20PM CDT	13 hrs 47 mins
92 5 8	6:33AM	8:21PM CDT	13 hrs 48 mins
92 5 9	6:32AM	8:22PM CDT	13 hrs 50 mins
92 510	6:31AM	8:22PM CDT	13 hrs 52 mins
92 511	6:30AM	8:23PM CDT	13 hrs 53 mins
92 512	6:29AM	8:24PM CDT	13 hrs 55 mins
92 513	6:28AM	8:25PM CDT	13 hrs 56 mins
92 514	6:28AM	8:25PM CDT	13 hrs 58 mins
92 515	6:27AM	8:26PM CDT	13 hrs 59 mins
92 516	6:26AM	8:27PM CDT	14 hrs 1 mins
92 517	6:26AM	8:28PM CDT	14 hrs 2 mins
92 518	6:25AM	8:28PM CDT	14 hrs 4 mins
92 519	6:24AM	8:29PM CDT	14 hrs 5 mins
92 520	6:24AM	8:30PM CDT	14 hrs 6 mins
92 521	6:23AM	8:31PM CDT	14 hrs 7 mins
92 522	6:23AM	8:31PM CDT	14 hrs 9 mins
92 523	6:22AM	8:32PM CDT	14 hrs 10 mins
92 524	6:22AM	8:33PM CDT	14 hrs 11 mins
92 525	6:21AM	8:33PM CDT	14 hrs 12 mins
92 526	6:21AM	8:34PM CDT	14 hrs 13 mins
92 527	6:20AM	8:35PM CDT	14 hrs 15 mins
92 528	6:20AM	8:35PM CDT	14 hrs 16 mins
92 529	6:19AM	8:36PM CDT	14 hrs 17 mins
92 530	6:19AM	8:37PM CDT	14 hrs 18 mins
92 531	6:19AM	8:37PM CDT	14 hrs 19 mins

TULSA

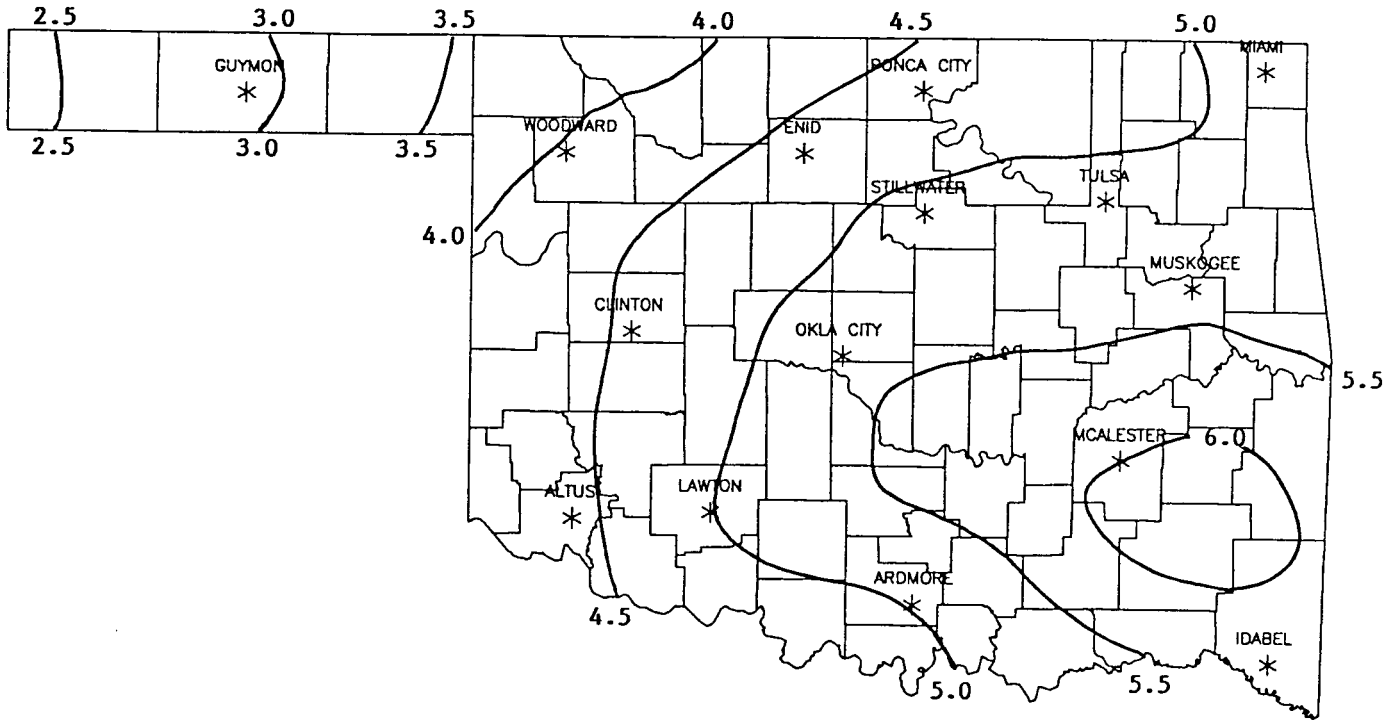
DATE	SUNRISE	SUNSET	DAYLIGHT
92 5 1	6:31AM	8:10PM CDT	13 hrs 39 mins
92 5 2	6:30AM	8:11PM CDT	13 hrs 41 mins
92 5 3	6:29AM	8:11PM CDT	13 hrs 42 mins
92 5 4	6:28AM	8:12PM CDT	13 hrs 44 mins
92 5 5	6:27AM	8:13PM CDT	13 hrs 46 mins
92 5 6	6:26AM	8:14PM CDT	13 hrs 48 mins
92 5 7	6:25AM	8:15PM CDT	13 hrs 50 mins
92 5 8	6:24AM	8:15PM CDT	13 hrs 51 mins
92 5 9	6:23AM	8:16PM CDT	13 hrs 53 mins
92 510	6:22AM	8:17PM CDT	13 hrs 55 mins
92 511	6:22AM	8:18PM CDT	13 hrs 56 mins
92 512	6:21AM	8:19PM CDT	13 hrs 58 mins
92 513	6:20AM	8:19PM CDT	14 hrs 0 mins
92 514	6:19AM	8:20PM CDT	14 hrs 1 mins
92 515	6:18AM	8:21PM CDT	14 hrs 3 mins
92 516	6:18AM	8:22PM CDT	14 hrs 4 mins
92 517	6:17AM	8:23PM CDT	14 hrs 6 mins
92 518	6:16AM	8:23PM CDT	14 hrs 7 mins
92 519	6:16AM	8:24PM CDT	14 hrs 8 mins
92 520	6:15AM	8:25PM CDT	14 hrs 10 mins
92 521	6:14AM	8:26PM CDT	14 hrs 11 mins
92 522	6:14AM	8:26PM CDT	14 hrs 12 mins
92 523	6:13AM	8:27PM CDT	14 hrs 14 mins
92 524	6:13AM	8:28PM CDT	14 hrs 15 mins
92 525	6:12AM	8:28PM CDT	14 hrs 16 mins
92 526	6:12AM	8:29PM CDT	14 hrs 17 mins
92 527	6:11AM	8:30PM CDT	14 hrs 18 mins
92 528	6:11AM	8:31PM CDT	14 hrs 20 mins
92 529	6:11AM	8:31PM CDT	14 hrs 21 mins
92 530	6:10AM	8:32PM CDT	14 hrs 22 mins
92 531	6:10AM	8:32PM CDT	14 hrs 23 mins



MAY 30-YEAR MEAN DAILY MAXIMUM TEMPERATURES



MAY 30-YEAR MEAN DAILY MINIMUM TEMPERATURES



MAY 30-YEAR MEAN MONTHLY PRECIPITATION

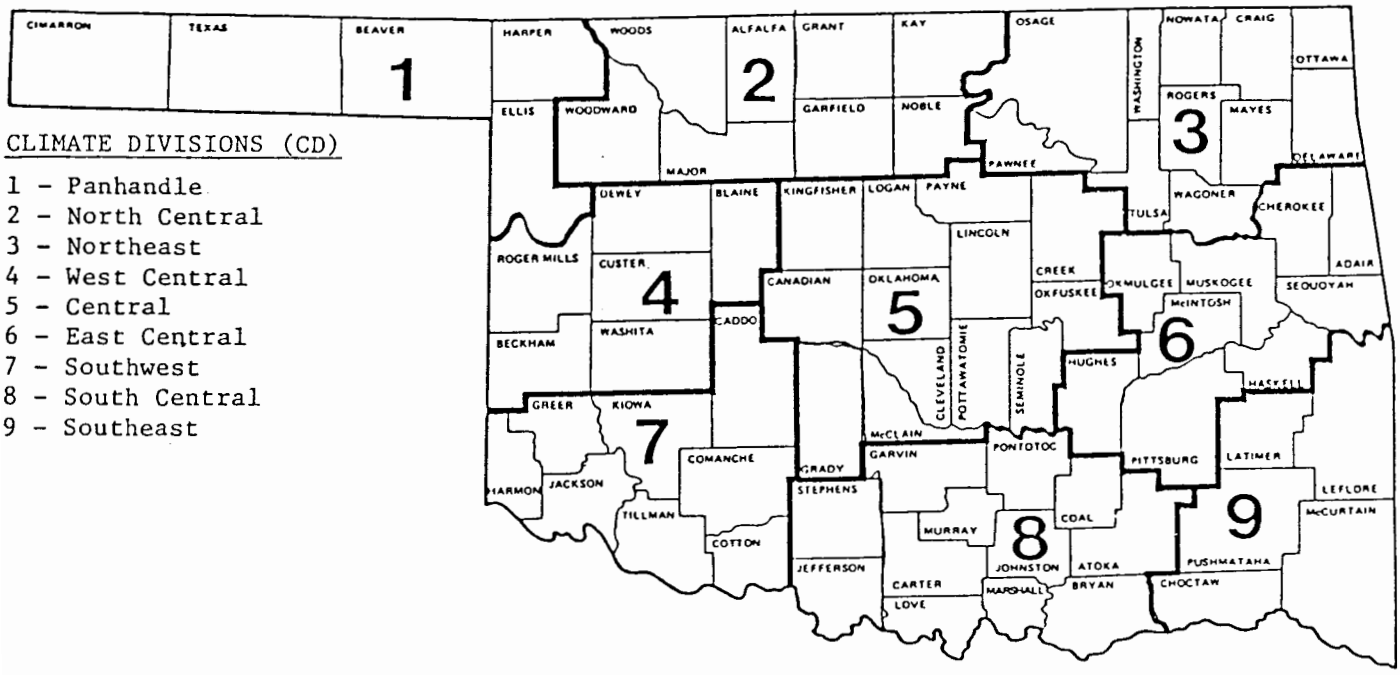
90-DAY NATIONAL WEATHER SERVICE OUTLOOK

(April - June 1992)

Precipitation - Below Normal Statewide

Temperature - Above Normal Statewide

O K L A H O M A



CLIMATE DIVISIONS (CD)

1 - Panhandle
2 - North Central
3 - Northeast
4 - West Central
5 - Central
6 - East Central
7 - Southwest
8 - South Central
9 - Southeast

EXPLANATION OF TABLES

Two kinds of tables appear in this summary. The first is a set of tables containing all reporting stations grouped by climate division. The figure above shows the locations of the climate divisions. Each table contains the following information for each station:

Station Name:

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

Climate Division: See the figure above.

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

Minimum Daily Minimum: The minimum daily minimum temperature observed during the current month and year and the day which it occurred.

Heating Degree Days: HDD are calculated each day of the month for which there is a temperature report and summed. They 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. For February 1984 HDD would be calculated as:

$$\sum_{i=1}^{29} 65-((TMAX_i + TMIN_i)/2)$$

Deviation from Normal Heating Degree Days: 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 summed. They 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. For June, CDD would be calculated as:

$$\sum_{i=1}^{30} ((TMAX_i + TMIN_i)/2)-65$$

Deviation from Normal Cooling Degree Days: 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 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: 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 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.

The second set of tables contain similar information but are the average or extreme over all the stations reporting in each climate division.

OKLAHOMA CITY CLIMATE CALENDAR

May 1992

The data on this calendar are for Oklahoma City. Normal values are calculated for the period 1961-1990. Extremes are found for the period of record (1891-present).

Normal 1	Actual	Normal 2	Actual	Normal 3	Actual	Normal 4	Actual	Normal 5	Actual	Normal 6	Actual	Normal 7	Actual
73.0 max		74.0 max		75.0 max		77.0 max		77.0 max		77.0 max		77.0 max	
53.0 min		52.0 min		54.0 min		54.0 min		57.0 min		56.0 min		55.0 min	
.09 ppt		.19 ppt		.10 ppt		.12 ppt		.15 ppt		.10 ppt		.06 ppt	
4 hdd		4 hdd		3 hdd		2 hdd		1 hdd		2 hdd		2 hdd	
1 cdd		2 cdd		3 cdd		3 cdd		4 cdd		3 cdd		3 cdd	
Highest Max	93-1948	Highest Max	94-1943	Highest Max	95-1920	Highest Max	93-1955	Highest Max	94-1940	Highest Max	92-1918	Highest Max	93-1955
Lowest Max	53-1966	Lowest Max	52-1954	Lowest Max	49-1978	Lowest Max	44-1935	Lowest Max	50-1935	Lowest Max	48-1908	Lowest Max	55-1893
Lowest Min	33-1909	Lowest Min	39-1961	Lowest Min	32-1954	Lowest Min	34-1907	Lowest Min	37-1917	Lowest Min	37-1944	Lowest Min	37-1917
Highest Min	66-1938	Highest Min	69-1959	Highest Min	70-1949	Highest Min	72-1950	Highest Min	69-1940	Highest Min	70-1986	Highest Min	71-1927
Greatest ppt	1.63-1954	Greatest ppt	2.99-1990	Greatest ppt	3.58-1898	Greatest ppt	3.60-1898	Greatest ppt	4.24-1899	Greatest ppt	2.61-1930	Greatest ppt	2.27-1892
Normal 8	**Actual**	**Normal 9**	**Actual**	**Normal 10**	**Actual**	**Normal 11**	**Actual**	**Normal 12**	**Actual**	**Normal 13**	**Actual**	**Normal 14**	**Actual**
78.0 max		78.0 max		76.0 max		77.0 max		77.0 max		77.0 max		78.0 max	
55.0 min		56.0 min		56.0 min		56.0 min		56.0 min		56.0 min		56.0 min	
.11 ppt		.15 ppt		.31 ppt		.07 ppt		.19 ppt		.18 ppt		.14 ppt	
2 hdd		2 hdd		2 hdd		3 hdd		2 hdd		2 hdd		2 hdd	
4 cdd		4 cdd		3 cdd		4 cdd		4 cdd		4 cdd		4 cdd	
Highest Max	96-1918	Highest Max	93-1895	Highest Max	96-1967	Highest Max	94-1923	Highest Max	90-1986	Highest Max	95-1984	Highest Max	92-1952
Lowest Max	50-1943	Lowest Max	55-1943	Lowest Max	53-1954	Lowest Max	54-1954	Lowest Max	55-1914	Lowest Max	49-1953	Lowest Max	55-1934
Lowest Min	37-1917	Lowest Min	40-1923	Lowest Min	40-1924	Lowest Min	37-1981	Lowest Min	39-1979	Lowest Min	39-1971	Lowest Min	41-1953
Highest Min	70-1927	Highest Min	70-1963	Highest Min	71-1963	Highest Min	70-1963	Highest Min	72-1956	Highest Min	68-1974	Highest Min	70-1899
Greatest ppt	3.09-1955	Greatest ppt	3.37-1943	Greatest ppt	4.71-1950	Greatest ppt	2.85-1920	Greatest ppt	2.26-1982	Greatest ppt	2.58-1983	Greatest ppt	2.48-1986
Normal 15	**Actual**	**Normal 16**	**Actual**	**Normal 17**	**Actual**	**Normal 18**	**Actual**	**Normal 19**	**Actual**	**Normal 20**	**Actual**	**Normal 21**	**Actual**
79.0 max		81.0 max		79.0 max		80.0 max		81.0 max		80.0 max		81.0 max	
58.0 min		59.0 min		59.0 min		59.0 min		58.0 min		59.0 min		60.0 min	
.14 ppt		.19 ppt		.35 ppt		.11 ppt		.22 ppt		.28 ppt		.15 ppt	
2 hdd		1 hdd		1 hdd		1 hdd		1 hdd		1 hdd		1 hdd	
5 cdd		5 cdd		5 cdd		5 cdd		6 cdd		5 cdd		6 cdd	
Highest Max	90-1966	Highest Max	92-1966	Highest Max	96-1966	Highest Max	95-1956	Highest Max	96-1973	Highest Max	94-1990	Highest Max	95-1953
Lowest Max	48-1945	Lowest Max	56-1920	Lowest Max	61-1986	Lowest Max	59-1943	Lowest Max	61-1943	Lowest Max	63-1942	Lowest Max	56-1968
Lowest Min	38-1907	Lowest Min	42-1945	Lowest Min	40-1945	Lowest Min	45-1976	Lowest Min	40-1894	Lowest Min	43-1981	Lowest Min	42-1892
Highest Min	71-1990	Highest Min	75-1974	Highest Min	74-1974	Highest Min	72-1938	Highest Min	71-1933	Highest Min	74-1902	Highest Min	73-1953
Greatest ppt	3.59-1920	Greatest ppt	1.81-1986	Greatest ppt	3.17-1951	Greatest ppt	1.50-1902	Greatest ppt	3.35-1955	Greatest ppt	2.74-1979	Greatest ppt	2.81-1922
Normal 22	**Actual**	**Normal 23**	**Actual**	**Normal 24**	**Actual**	**Normal 25**	**Actual**	**Normal 26**	**Actual**	**Normal 27**	**Actual**	**Normal 28**	**Actual**
81.0 max		81.0 max		81.0 max		83.0 max		82.0 max		81.0 max		81.0 max	
61.0 min		61.0 min		61.0 min		62.0 min		61.0 min		60.0 min		61.0 min	
.18 ppt		.20 ppt		.12 ppt		.15 ppt		.32 ppt		.37 ppt		.20 ppt	
1 hdd		1 hdd		0 hdd		0 hdd		1 hdd		1 hdd		0 hdd	
6 cdd		6 cdd		6 cdd		7 cdd		7 cdd		6 cdd		7 cdd	
Highest Max	98-1939	Highest Max	99-1939	Highest Max	94-1939	Highest Max	93-1990	Highest Max	96-1953	Highest Max	96-1927	Highest Max	93-1895
Lowest Max	57-1892	Lowest Max	60-1963	Lowest Max	63-1947	Lowest Max	63-1925	Lowest Max	58-1950	Lowest Max	59-1893	Lowest Max	53-1907
Lowest Min	42-1931	Lowest Min	42-1892	Lowest Min	42-1935	Lowest Min	47-1947	Lowest Min	45-1901	Lowest Min	42-1907	Lowest Min	43-1947
Highest Min	74-1953	Highest Min	72-1953	Highest Min	72-1989	Highest Min	72-1965	Highest Min	74-1916	Highest Min	74-1912	Highest Min	71-1942
Greatest ppt	3.09-1952	Greatest ppt	4.16-1908	Greatest ppt	4.06-1903	Greatest ppt	1.49-1968	Greatest ppt	2.00-1959	Greatest ppt	5.38-1987	Greatest ppt	2.33-1987
Normal 29	**Actual**	**Normal 30**	**Actual**	**Normal 31**	**Actual**								
83.0 max		83.0 max		82.0 max									
62.0 min		63.0 min		63.0 min									
.30 ppt		.20 ppt		.22 ppt									
0 hdd		0 hdd		1 hdd									
8 cdd		8 cdd		8 cdd									
Highest Max	94-1985	Highest Max	104-1985	Highest Max	98-1934								
Lowest Max	57-1902	Lowest Max	64-1915	Lowest Max	54-1903								
Lowest Min	39-1947	Lowest Min	45-1947	Lowest Min	44-1983								
Highest Min	73-1989	Highest Min	74-1974	Highest Min	74-1991								
Greatest ppt	5.63-1970	Greatest ppt	1.67-1958	Greatest ppt	2.14-1892								

MAY AVERAGES

TEMPERATURE	:	68.5°F
PRECIPITATION	:	5.66"
HEATING DEGREE DAYS	:	46
COOLING DEGREE DAYS	:	152

TULSA CLIMATE CALENDAR

May 1992

The data on this calendar are for Tulsa. Normal values are calculated for the period 1948-1991. Temperature extremes are for the period 1905-1991; precipitation extremes are for the period 1948-1991.

Normal 1	Actual	Normal 2	Actual	Normal 3	Actual	Normal 4	Actual	Normal 5	Actual	Normal 6	Actual	Normal 7	Actual
74.0 max		75.0 max		76.0 max		78.0 max		78.0 max		78.0 max		78.0 max	
54.0 min		53.0 min		54.0 min		55.0 min		58.0 min		58.0 min		56.0 min	
.17 ppt		.15 ppt		.12 ppt		.09 ppt		.18 ppt		.16 ppt		.14 ppt	
3 hdd		3 hdd		3 hdd		2 hdd		1 hdd		2 hdd		2 hdd	
3 cdd		2 cdd		3 cdd		4 cdd		5 cdd		5 cdd		4 cdd	
Highest Max	89-1948	Highest Max	94-1943	Highest Max	96-1920	Highest Max	96-1920	Highest Max	92-1952	Highest Max	90-1952	Highest Max	93-1918
Lowest Max	53-1966	Lowest Max	58-1990	Lowest Max	52-1978	Lowest Max	56-1953	Lowest Max	63-1953	Lowest Max	61-1960	Lowest Max	58-1972
Lowest Min	32-1909	Lowest Min	32-1909	Lowest Min	36-1976	Lowest Min	36-1954	Lowest Min	36-1907	Lowest Min	36-1944	Lowest Min	40-1931
Highest Min	67-1987	Highest Min	69-1959	Highest Min	67-1987	Highest Min	72-1950	Highest Min	71-1964	Highest Min	71-1986	Highest Min	72-1986
Greatest ppt	1.20-1978	Greatest ppt	2.78-1990	Greatest ppt	2.19-1979	Greatest ppt	1.66-1961	Greatest ppt	2.87-1960	Greatest ppt	2.50-1973	Greatest ppt	1.49-1978

Normal 8	Actual	Normal 9	Actual	Normal 10	Actual	Normal 11	Actual	Normal 12	Actual	Normal 13	Actual	Normal 14	Actual
78.0 max		78.0 max		77.0 max		77.0 max		77.0 max		77.0 max		78.0 max	
56.0 min		57.0 min		58.0 min		57.0 min		57.0 min		57.0 min		56.0 min	
.14 ppt		.13 ppt		.39 ppt		.16 ppt		.19 ppt		.25 ppt		.25 ppt	
2 hdd		2 hdd		2 hdd		2 hdd		2 hdd		2 hdd		2 hdd	
4 cdd		5 cdd		4 cdd		5 cdd		4 cdd		4 cdd		4 cdd	
Highest Max	97-1918	Highest Max	93-1918	Highest Max	93-1963	Highest Max	94-1980	Highest Max	90-1911	Highest Max	93-1911	Highest Max	93-1911
Lowest Max	62-1972	Lowest Max	64-1954	Lowest Max	59-1966	Lowest Max	60-1968	Lowest Max	62-1966	Lowest Max	51-1953	Lowest Max	62-1956
Lowest Min	37-1938	Lowest Min	38-1923	Lowest Min	41-1909	Lowest Min	39-1924	Lowest Min	40-1960	Lowest Min	41-1971	Lowest Min	44-1976
Highest Min	71-1986	Highest Min	72-1948	Highest Min	71-1963	Highest Min	74-1956	Highest Min	75-1956	Highest Min	72-1991	Highest Min	70-1991
Greatest ppt	3.66-1981	Greatest ppt	1.70-1965	Greatest ppt	4.36-1950	Greatest ppt	2.76-1980	Greatest ppt	4.05-1982	Greatest ppt	3.05-1975	Greatest ppt	2.51-1956

Normal 15	Actual	Normal 16	Actual	Normal 17	Actual	Normal 18	Actual	Normal 19	Actual	Normal 20	Actual	Normal 21	Actual
79.0 max		81.0 max		81.0 max		81.0 max		81.0 max		81.0 max		82.0 max	
57.0 min		59.0 min		60.0 min		60.0 min		60.0 min		59.0 min		61.0 min	
.10 ppt		.10 ppt		.18 ppt		.23 ppt		.18 ppt		.19 ppt		.22 ppt	
1 hdd		1 hdd		0 hdd		1 hdd		1 hdd		1 hdd		1 hdd	
5 cdd		6 cdd		6 cdd		6 cdd		6 cdd		6 cdd		8 cdd	
Highest Max	95-1911	Highest Max	94-1931	Highest Max	94-1911	Highest Max	94-1987	Highest Max	94-1911	Highest Max	94-1956	Highest Max	95-1925
Lowest Max	58-1976	Lowest Max	66-1981	Lowest Max	67-1969	Lowest Max	65-1952	Lowest Max	65-1981	Lowest Max	64-1967	Lowest Max	56-1968
Lowest Min	35-1907	Lowest Min	40-1907	Lowest Min	40-1945	Lowest Min	45-1976	Lowest Min	46-1968	Lowest Min	42-1981	Lowest Min	45-1915
Highest Min	69-1963	Highest Min	74-1974	Highest Min	76-1974	Highest Min	72-1974	Highest Min	74-1987	Highest Min	71-1982	Highest Min	73-1962
Greatest ppt	1.15-1989	Greatest ppt	1.27-1959	Greatest ppt	1.58-1986	Greatest ppt	2.48-1960	Greatest ppt	3.91-1949	Greatest ppt	1.89-1967	Greatest ppt	1.90-1978

Normal 22	Actual	Normal 23	Actual	Normal 24	Actual	Normal 25	Actual	Normal 26	Actual	Normal 27	Actual	Normal 28	Actual
82.0 max		81.0 max		81.0 max		83.0 max		82.0 max		83.0 max		82.0 max	
62.0 min		62.0 min		62.0 min		62.0 min		62.0 min		61.0 min		62.0 min	
.11 ppt		.18 ppt		.26 ppt		.18 ppt		.36 ppt		.35 ppt		.26 ppt	
0 hdd		0 hdd		0 hdd		0 hdd		0 hdd		0 hdd		0 hdd	
8 cdd		7 cdd		7 cdd		8 cdd		7 cdd		8 cdd		7 cdd	
Highest Max	93-1953	Highest Max	93-1939	Highest Max	94-1911	Highest Max	94-1911	Highest Max	94-1926	Highest Max	94-1911	Highest Max	94-1926
Lowest Max	64-1963	Lowest Max	62-1963	Lowest Max	63-1956	Lowest Max	68-1956	Lowest Max	65-1976	Lowest Max	65-1950	Lowest Max	66-1984
Lowest Min	44-1931	Lowest Min	41-1917	Lowest Min	42-1935	Lowest Min	45-1925	Lowest Min	44-1925	Lowest Min	45-1961	Lowest Min	45-1947
Highest Min	77-1953	Highest Min	75-1953	Highest Min	75-1953	Highest Min	75-1953	Highest Min	72-1953	Highest Min	73-1953	Highest Min	73-1991
Greatest ppt	1.24-1971	Greatest ppt	1.45-1952	Greatest ppt	2.01-1974	Greatest ppt	1.80-1974	Greatest ppt	2.40-1984	Greatest ppt	6.95-1984	Greatest ppt	1.54-1981

Normal 29	Actual	Normal 30	Actual	Normal 31	Actual
83.0 max		83.0 max		83.0 max	
62.0 min		63.0 min		63.0 min	
.09 ppt		.15 ppt		.10 ppt	
0 hdd		1 hdd		0 hdd	
8 cdd		9 cdd		9 cdd	
Highest Max	98-1926	Highest Max	98-1934	Highest Max	100-1934
Lowest Max	69-1964	Lowest Max	59-1964	Lowest Max	68-1981
Lowest Min	40-1947	Lowest Min	45-1947	Lowest Min	49-1930
Highest Min	75-1982	Highest Min	75-1974	Highest Min	77-1991
Greatest ppt	1.32-1981	Greatest ppt	2.71-1976	Greatest ppt	1.00-1987

MAY AVERAGES

TEMPERATURE	:	69.2°F
PRECIPITATION	:	5.76"
HEATING DEGREE DAYS	:	37
COOLING DEGREE DAYS	:	177