

OKLAHOMA MONTHLY SUMMARY AUGUST 1992

TABLE OF CONTENTS

August 1992 Oklahoma Summary.....	2
Table of August 1991/1992 Comparisons.....	6
August 1992 Data Summary Tables.....	7
August 1992 State Map Summary.....	13
October Climatological Normals.....	16
90-Day National Weather Service Outlook.....	18
Explanation of Tables and Maps.....	19
October 1992 Oklahoma City Climate Calendar.....	21
October 1993 Tulsa Climate Calendar.....	22

MONTHLY SUMMARY FOR AUGUST 1992

Oklahoma's cool, wet summer of 1992 continued through August. Temperatures averaged nearly 6 degrees below normal and precipitation averaged over an inch above normal during the month. The cool weather was prevalent, except for a few days during the month's second week when temperatures in many places in the west reached triple digits. Precipitation was especially great in north central and central parts of the state, but was below normal at several locations in southeast and south central Oklahoma.

The statewide average temperature of 75 degrees was the second lowest August temperature in the 101 years of Oklahoma weather records. The only cooler August occurred in 1915 when the average temperature was 73.9 degrees. The three summer months of June, July and August averaged 76.3 degrees, 3.7 degrees below the 30-year average. This was the state's third lowest summer temperature since 1892. Only the summers of 1915 and 1906 have produced lower average temperatures. The year-to-date statewide average temperature is 62.6 degrees, two-tenths of a degree above normal.

The statewide average precipitation for the month was 4.01 inches, exceeding the 30-year normal by 1.19 inches. Summer 1992 precipitation averaged 15.56 inches across the state, the fifth greatest statewide summer (June, July and August) precipitation, exceeding the 1961-1990 normal by 6.17 inches. Stations in the state's north central and central climate divisions received precipitation averaging over twice their normal amounts during the month. Six reporting locations (Marshall, Holdenville, Lookeba, Stillwater, Enid and Perry) each received more than three times their average August precipitation. Eight locations reported eight inches or more of precipitation for the month. Ten reports of four or more inches of rainfall in one day have been received. Three stations in extreme southern Oklahoma (Madill, Kingston and Marietta) received less than one inch of precipitation during the month. A total of 11 stations, all in the southern part of the state, received less than half their normal August precipitation.

August 1992 began with thunderstorms producing large hail in Alfalfa and Woodward Counties and damaging winds in Jefferson, Love and McClain Counties. Widespread and locally heavy precipitation over the first week of the month produced flooding in Noble, Payne, Grant, Garfield and Kay Counties on the 3rd and 4th. Perry reported 5.17 inches of rain for the 24 hours ending the morning of the 4th. Several other locations in north central Oklahoma reported daily amounts in excess of three inches during that period. The heavy rains moved into east central Oklahoma overnight on the 4th and through the morning of the 5th. Beggs reported 5.22 inches on the 5th, the greatest official report of daily precipitation during the month. Reports on the same day from Dewar, Dustin, Wetumka and Checotah exceeded four inches. An unofficial report from the Henryetta area indicated that precipitation in excess of 8 inches had fallen. Flooding was reported in Pawnee, Okfuskee, Pittsburg and southern Okmulgee County. Ashland reported 3.86 inches on the 6th, coincident with reports in excess of two inches at Lehigh, Durant, McAlester and Trosdale. More rain fell in the same general area on the 6th including 4.4 inches at Wewoka, most of it in one and one-half hours, and 4.34 inches was reported at Holdenville. Minor flooding was reported in Seminole and Hughes Counties.

The state's weather was relatively quiescent from the 7th through the 10th. Temperatures in the west exceeded the 100 degree mark for the only time all month, topped by a 107 degree reading at Buffalo on the 9th. A cold front entered the state on the 10th, producing another round of thunderstorms. Wind damage was reported across much of northern Oklahoma late on the 10th and early on the 11th. Thunderstorm-associated winds of up to 80 miles per hour were reported at Leach in Delaware County and near Rose in Mayes County. Power lines were reported down in Tulsa and Rogers Counties. Precipitation totaling 4.43 inches at Marshall and 3.9 inches at Enid led to minor flooding in southern and central Garfield County.

Generally cloudy, cool (for August) weather settled in for the remainder of the month. Daily precipitation amounts in excess of three inches were reported at Taloga and Mutual on the 18th, Thomas on the 19th and at Lookeba, Altus, Snyder, and Weatherford on the 26th. From the 12th on to the end of the month, high temperatures were generally in the upper 80s to the lower 90s. Cloudy, rainy weather held high temperatures into the 60s at several locations in western Oklahoma from the 17th through the 19th, 25th through the 27th and on the 30th and 31st. Temperatures failed to reach the 90s anywhere in the state on the 14th, 16th, 18th and 19th. Low temperatures in the 40s, most unusual in Oklahoma during August were reported on the 17th, 27th, 28th (as far south as Tuskahoma) and 29th. The lowest reported temperature was 41 degrees at the Wichita Mountains Wildlife Refuge on the 29th.

Oklahoma's Summer of 1992 in Perspective

Coolest Summers		Hottest Summers	
1915	75.5°F	1934	85.8°F
1906	76.2°F	1936	85.0°F
1992	76.3°F	1980	84.8°F
1950	76.7°F	1954	84.8°F
1989	77.1°F	1952	83.5°F
Wettest Summers		Driest Summers	
1950	17.25"	1936	2.79"
1895	16.40"	1954	4.11"
1915	16.39"	1980	4.59"
1906	16.01"	1943	4.67"
1992	15.56"	1894	4.78"

1992 statewide averages of temperature and precipitation have been computed on the basis of the 182 reporting locations whose daily precipitation and temperature (in 82 instances) reports were available to the Climatological Survey as of September 15, 1992. The numbers we are presenting are subject to revision upon receipt of more complete data.

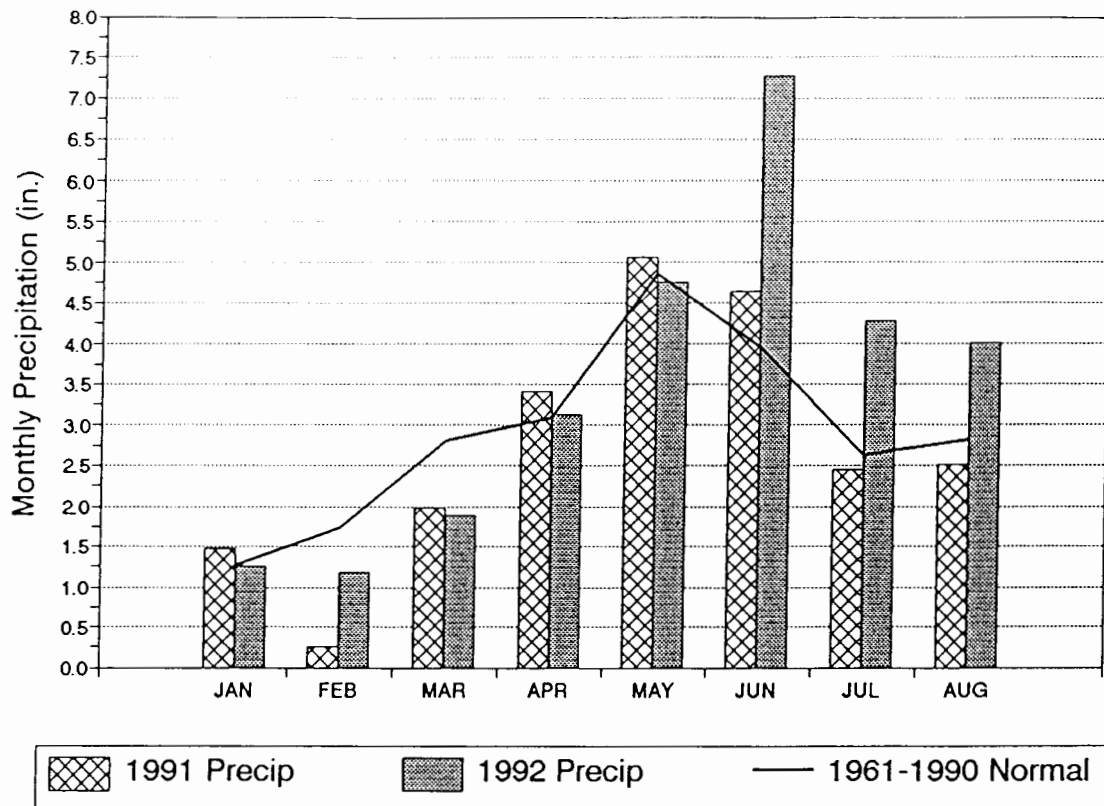
The vast majority of the station data is collected by National Weather Service Cooperative Observers. The data are made available to us by the National Weather Service Forecast Office in Oklahoma City and the National Weather Service Office in Tulsa. We very much appreciate their assistance and cooperation, and we place a very high value on the efforts and dedicated service of the Cooperative Observers.

DATA SOURCE BOOK FOR EPA PERMITTING PROGRAM

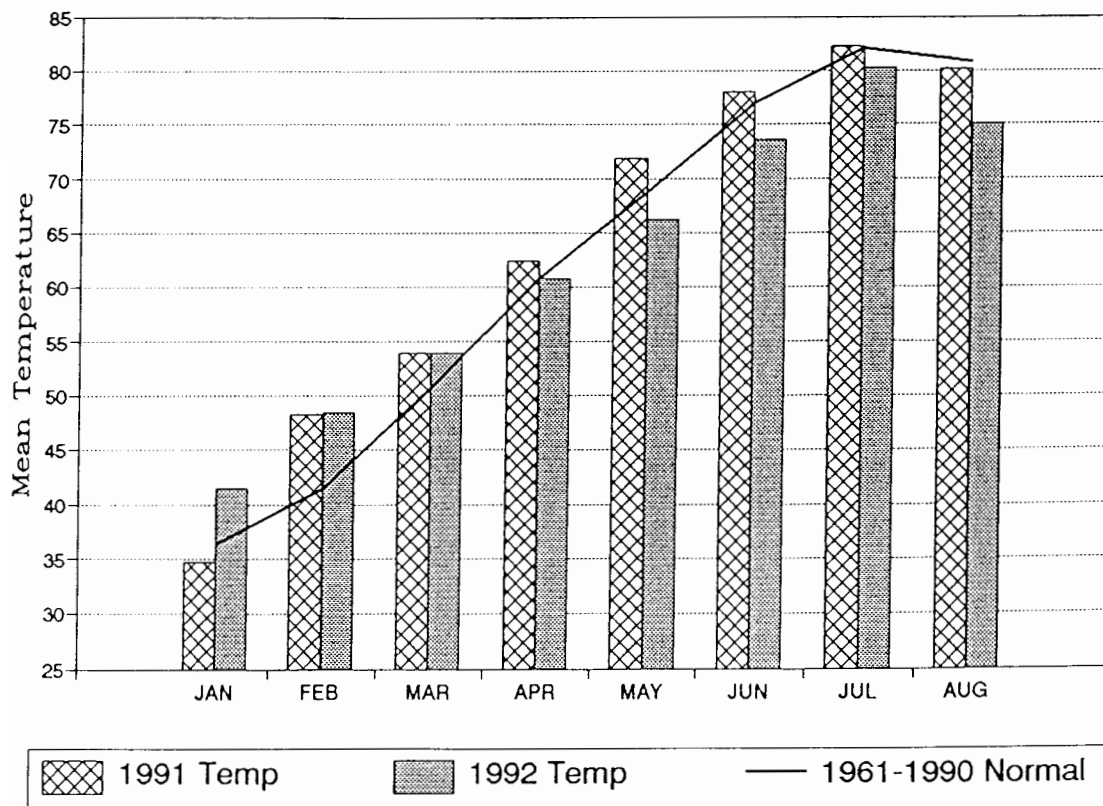
OCS recently obtained a copy of **The ESA National Precipitation Databook** by Dr. Jerry R. Perrich, published by Cahners Publishing Company. This rather large volume contains a summary of precipitation statistics appropriate to the U.S. EPA Storm Water Permitting Program that were generated by the National Climate Data Center at the request of EPA. Storm statistics presented for over 3,000 locations in all 50 states include: mean total precipitation, average storm duration, mean number of storm events, mean storm depth, mean storm intensity, mean maximum storm intensity and the average time between storm midpoints.

Due to copyright restrictions, we cannot provide copies of the tabular data, but we now are able to respond to potential users of the data.

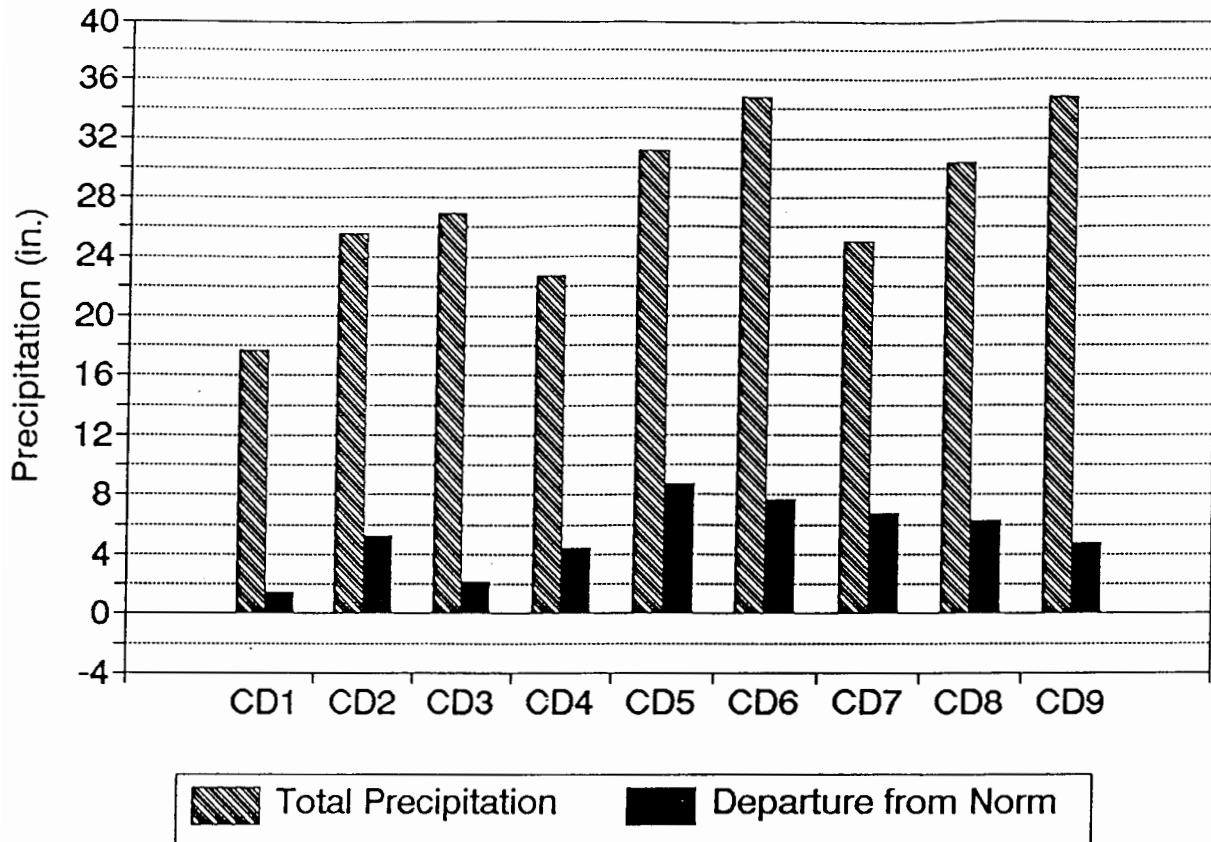
1991 and 1992 STATEWIDE PRECIPITATION January Through August Monthly Totals



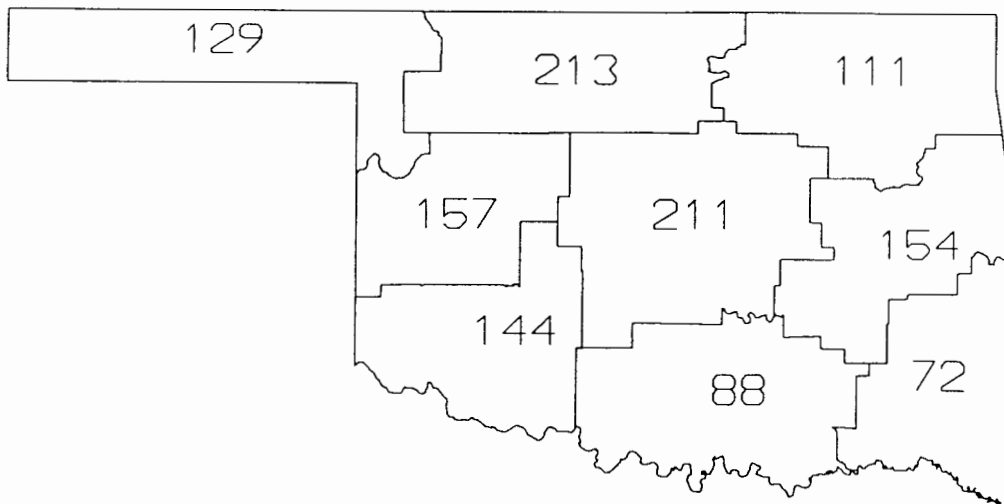
1991 and 1992 STATEWIDE TEMPERATURES January Through August Monthly Averages



CD Averaged Precipitation January Through August 1992



AUGUST 1992 CLIMATE DIVISION PERCENT OF NORMAL PRECIPITATION



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

CD	MAX			MIN			24-HOUR			MONTHLY	
	TEMP	DATE	LOCATION	TEMP	DATE	LOCATION	PRECIP	DATE	LOCATION	PRECIP	LOCATION
1	107	9	BUFFALO	49	27	GUYMON	1.35	11	ARNETT	3.81	GUYMON
2	103	8	MUTUAL	48	27	FREEDOM	5.17	4	PERRY	9.88	PERRY
	103	11	MUTUAL	48	28	FREEDOM					
3	98	11	JAY TOWER	48	28	PRYOR	3.17	5	MANNFORD	7.72	MARAMEC
4	101	8	REYDON	50	20	ERICK	3.25	26	WEATHERFORD	7.41	WEATHERFORD
	101	9	REYDON	50	27	ERICK					
5	98	10	KINGFISHER	51	28	BRISTOW	4.43	11	MARSHALL	10.15	MARSHALL
6	95	11	LAKE EUFAULA	48	28	TAHLEQUAH	5.22	5	BEGGS	9.44	HOLDENVILLE
	95	10	MCCURTAIN								
7	102	10	HOLLIS	41	29	WICHITA MTNS	3.67	26	LOOKEBA	8.19	LOOKEBA
8	100	10	WAURIKA	50	28	CHICKASAW NRA	2.90	6	LEHIGH	3.75	ALLEN
				50	29	CHICKASAW NRA					
				50	28	PAULS VALLEY					
				50	29	PAULS VALLEY					
9	96	23	BOSWELL	47	28	TUSKAHOMA	1.85	4	WILBURTON	3.38	BENGAL

TABLE OF 1991/1992 COMPARISONS

Station	August Temperature (F)		August Precipitation (in.)	
	1991	1992	1991	1992
Arnett	76.9	71.8	3.08	3.21
Enid	81.8	70.3	2.28	9.72
Mutual	79.6	73.6	2.39	4.72
Tulsa	83.2	76.8	1.17	3.07
Elk City	79.8	74.2	4.00	3.04
Oklahoma City	81.4	74.1	2.65	5.82
McAlester	80.1	77.3	2.18	5.38
Altus Irr Sta	80.0	77.2	1.98	5.45
Durant	80.5	75.6	2.00	3.00
Ada	79.7	75.2	1.45	2.69
Antlers	79.7	75.5	4.18	2.16

EXTREMES

Variable	Station	Division	Observation	Date
Minimum temperature (F)	Smithville	9	45	28
Maximum temperature (F)	Buffalo	1	107	9
Maximum 24-hour precipitation	Beggs	6	5.22"	5

AUGUST 1992 SUMMARY FOR NORTHWEST DIVISION (CD1)

NAME	ID	CD	DEV				HEAT				COOL				DEV			
			MEAN	NUM	FROM	MAX	MIN	DEG	FROM	DEG	FROM	DEG	FROM	TOT	NUM	FROM	MAX	
TEMP	OBS	NORM	TEMP	DAY	TEMP	DAY	DAY	NORM	DAY	NORM	DAY	NORM	PPT	OBS	NORM	24-HR	DAY	
ARNETT	332	1	71.8	31	-6.8	99.	11	51.	28	22.0	22.0	232.5	-189.5	3.212	31	.80	1.35	11
BEAVER	593	1	72.8	31	-5.8	103.	9	50.	28	19.0	19.0	261.0	-161.0	2.631	31	-.32	.78	25
BOISE CITY 2 E	908	1	73.1	31	-2.4	102.	9	46.	27	8.5	8.5	259.0	-67.0	3.441	31	.99	2.02	11
BUFFALO	1243	1	77.1	31	-4.2	107.	9	51.	27	2.0	2.0	376.5	-128.5	3.240	31	-.22	1.08	18
FARGO	3070	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.710	31	1.00	1.10	18
GAGE FAA APT	3407	1	74.1	31	-6.0	103.	7	52.	27	5.0	5.0	288.0	-180.0	3.435	31	.92	1.33	11
GATE	3489	1	74.2	31	-5.5	100.	10	51.	19	10.5	10.5	295.5	-160.5	3.452	27	*****	1.14	4
GOODWELL RES ST	3628	1	72.0	31	-4.4	101.	9	51.	16	15.0	15.0	231.5	-121.5	2.754	31	.59	.86	25
GUYMON	3835	1	72.8	31	*****	100.	9	49.	27	14.0	*****	255.0	*****	3.811	31	*****	.93	17
HOOKER	4298	1	72.1	31	-5.6	101.	9	50.	28	22.0	22.0	241.0	-153.0	3.321	31	1.01	.77	18
KENTON	4766	1	72.2	31	-3.0	99.	10	48.	27	7.0	7.0	230.0	-89.0	1.411	31	-1.23	.70	11
LAVERNE	5045	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.710	31	.85	1.19	17
OPTIMA LAKE	6740	1	72.1	31	*****	102.	9	48.	27	22.0	*****	242.0	*****	2.442	31	*****	1.16	17
REGNIER	7534	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.930	31	1.05	.69	11
TURPIN 4 SSE	9017	1	72.3	31	*****	101.	10	50.	28	23.0	*****	249.0	*****	3.610	31	*****	1.75	11

AUGUST 1992 SUMMARY FOR NORTH CENTRAL DIVISION (CD2)

NAME	ID	CD	DEV				HEAT				COOL				DEV			
			MEAN	NUM	FROM	MAX	MIN	DEG	FROM	DEG	FROM	DEG	FROM	TOT	NUM	FROM	MAX	
TEMP	OBS	NORM	TEMP	DAY	TEMP	DAY	DAY	NORM	DAY	NORM	DAY	NORM	PPT	OBS	NORM	24-HR	DAY	
ALVA	193	2	75.8	31	*****	100.	9	55.	27	.5	*****	336.5	*****	5.680	31	*****	2.97	4
VANCE AFB	302	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.770	28	*****	2.55	4
BILLINGS	755	2	73.6	31	-7.4	94.	11	56.	19	3.0	3.0	268.5	-227.5	8.683	31	5.55	3.70	3
BLACKWELL 2E	818	2	74.8	30	-6.3	96.	10	56.	28	.0	.0	293.0	-206.0	5.353	31	2.16	2.15	5
BRAMAN	1075	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.901	29	*****	2.35	5
CEDARDALE	1620	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.292	31	*****	1.93	18
CHEROKEE	1724	2	77.0	31	-5.2	100.	9	56.	27	.0	.0	373.5	-159.5	3.493	31	.47	1.55	4
ENID	2912	2	71.3	31	-10.4	93.	10	52.	5	2.0	2.0	198.0	-320.0	9.720	31	6.54	3.90	11
FT SUPPLY DAM	3304	2	72.8	31	-6.3	101.	8	51.	27	16.5	16.5	258.5	-178.5	4.063	31	1.24	1.58	18
FREEDOM	3358	2	71.8	26	*****	98.	11	48.	28	11.5	*****	189.0	*****	4.221	31	1.22	2.27	4
GREAT SALT PLNS	3740	2	74.5	31	-6.4	98.	11	56.	28	2.5	2.5	296.0	-197.0	6.822	31	3.55	3.68	4
HARDY	3909	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.633	31	*****	1.25	25
HELENA 1 SSE	4019	2	74.0	31	-6.3	100.	11	55.	19	3.5	3.5	284.0	-190.0	6.560	31	3.80	1.88	4
JEFFERSON	4573	2	75.1	31	-6.6	99.	10	55.	27	.0	.0	312.0	-206.0	7.160	31	3.93	2.39	10
LAMONT	5013	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.991	28	*****	1.20	26
MEDFORD	5768	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.540	31	*****	3.28	3
MUTUAL	6139	2	73.6	31	-6.4	103.	11	51.	19	12.0	12.0	277.5	-187.5	4.720	31	2.52	3.02	18
NEWKIRK	6278	2	73.7	31	-7.2	95.	10	56.	17	.0	.0	271.0	-222.0	6.404	31	2.95	1.74	26
ORIENTA	6751	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.520	31	4.78	1.73	30
PERRY	7012	2	75.6	31	-6.1	97.	10	58.	19	.0	.0	329.5	-188.5	9.880	31	6.62	5.17	4
PONCA CITY FAA	7201	2	75.9	31	-4.9	97.	10	57.	15	.0	.0	338.0	-152.0	8.524	31	5.10	2.89	26
RED ROCK 1 NNE	7505	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.470	31	3.64	1.80	5
WAYNOKA	9404	2	74.9	31	-6.5	100.	7	53.	19	2.0	2.0	310.0	-198.0	3.610	31	.69	.99	31
WOODWARD	9760	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.261	31	1.35	2.37	18

AUGUST 1992 SUMMARY FOR NORTHEAST DIVISION (CD3)

NAME	ID	CD	DEV					HEAT		DEV		COOL		DEV		TOT		DEV	
			MEAN	NUM	FROM	MAX	MIN	DEG	FROM	DEG	FROM	DEG	FROM	DEG	PPT	NUM	FROM	MAX	24-HR
			TEMP	OBS	NORM	TEMP	DAY	TEMP	DAY	DAY	NORM	DAY	NORM		OBS	NORM			
BARNSDALL	535	3	73.7	31	-7.0	96.	10	51.	17	.5	.5	270.0	-217.0	2.670	31	-.78	.74	11	
BARTLESVILLE 2W	548	3	74.4	31	-6.1	97.	10	52.	17	.0	.0	292.5	-188.5	3.835	31	.68	1.80	11	
BIXBY	782	3	73.6	29	*****	95.	10	51.	28	2.0	*****	252.0	*****	2.680	30	*****	1.72	5	
BURBANK	1256	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.143	31	2.73	2.35	26	
CHELSEA 4 S	1717	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.570	31	*****	1.54	11	
CLAREMORE	1828	3	74.0	31	-5.7	94.	11	52.	28	.5	.5	279.5	-176.5	2.790	31	-.28	1.07	5	
CLEVELAND 5 WSW	1902	3	74.9	31	*****	96.	10	55.	28	.0	*****	306.5	*****	4.950	31	*****	2.65	4	
FORAKER	3250	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.203	31	2.74	1.78	11	
HOLLOW	4258	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.013	31	-1.20	.95	4	
HOMINY	4289	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.491	31	.21	.88	4	
HULAH DAM	4393	3	73.2	21	*****	97.	11	51.	17	.0	*****	171.5	*****	2.871	30	*****	1.02	4	
JAY TOWER	4567	3	74.5	31	*****	98.	11	50.	28	3.0	*****	298.0	*****	2.690	31	*****	1.20	4	
KANSAS 1 ESE	4672	3	72.5	31	-6.4	91.	10	50.	28	2.5	2.5	235.5	-195.5	2.361	31	-1.45	1.37	4	
KEYSTONE DAM	4812	3	73.4	30	-6.3	95.	11	53.	28	.0	.0	253.5	-202.5	2.911	30	*****	.76	11	
LENAPAH	5118	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.310	31	*****	.64	3	
MANNFORD 6 NW	5522	3	74.2	31	-6.6	94.	29	54.	28	.0	.0	284.5	-205.5	6.120	31	2.84	3.17	5	
MARAMEC	5540	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.721	31	4.54	2.84	5	
MIAMI	5855	3	72.8	31	-5.6	93.	11	50.	28	3.5	3.5	245.5	-169.5	.891	31	-3.08	.81	2	
NOWATA	6485	3	74.5	31	-6.0	95.	12	52.	15	.5	.5	295.0	-186.0	4.031	31	.71	1.64	10	
ONETA 1 WNW	6713	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.690	31	*****	1.12	5	
PAWHUSKA	6935	3	73.6	31	-6.6	95.	11	52.	17	.0	.0	267.5	-203.5	4.491	31	.91	1.09	27	
PAWNEE	6940	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	9.590	31	6.38	4.50	5	
PRYOR 6 N	7309	3	72.3	31	-6.9	93.	11	48.	28	5.0	5.0	231.0	-209.0	2.763	31	-.51	1.32	4	
RALSTON	7390	3	74.9	31	-5.6	96.	11	53.	16	.0	.0	305.5	-175.5	5.613	31	2.30	2.10	4	
RAMONA 4 N	7394	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.642	31	*****	3.00	11	
SKIATOOK	8258	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.810	31	.65	1.42	4	
SPAVINAW	8380	3	75.5	31	-5.3	94.	11	54.	28	.0	.0	326.0	-164.0	2.144	31	-1.77	1.40	4	
TULSA WSO APT	8992	3	76.8	31	-4.7	97.	10	57.	16	.0	.0	364.5	-147.5	3.072	31	-.05	.98	11	
UPPER SPAVINAW	9101	3	74.6	31	*****	94.	10	50.	17	.0	*****	298.0	*****	1.753	31	*****	1.10	4	
VINITA 2 N	9203	3	74.0	31	-5.0	93.	10	49.	17	1.5	1.5	281.0	-153.0	1.980	31	-1.80	1.29	4	
WAGONER	9247	3	74.8	31	-6.0	94.	11	51.	28	.0	.0	304.0	-186.0	2.490	31	-.54	1.08	5	
WANN	9298	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.980	31	*****	1.14	4	
WYONONA	9792	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.042	31	*****	1.00	11	

AUGUST 1992 SUMMARY FOR WEST CENTRAL DIVISION (CD4)

NAME	ID	CD	DEV					HEAT		DEV		COOL		DEV		TOT		DEV	
			MEAN	NUM	FROM	MAX	MIN	DEG	FROM	DEG	FROM	DEG	FROM	DEG	PPT	NUM	FROM	MAX	24-HR
			TEMP	OBS	NORM	TEMP	DAY	TEMP	DAY	DAY	NORM	DAY	NORM		OBS	NORM			
CANTON DAM	1445	4	73.3	31	-6.9	98.	11	55.	19	7.0	7.0	265.0	-206.0	7.200	31	4.79	2.74	30	
CHEYENNE	1738	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.650	31	.32	2.20	18	
CLINTON	1909	4	75.7	31	-6.7	99.	8	55.	29	.0	.0	331.0	-208.0	2.831	31	-.34	.72	18	
COLONY	2039	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.911	31	*****	1.98	26	
CORDELL	2125	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.231	31	4.15	2.00	31	
ELK CITY 1 E	2849	4	74.2	31	-5.9	97.	8	54.	19	4.5	4.5	289.5	-178.5	3.041	31	.16	1.83	18	
ERICK 4 E	2944	4	74.5	31	-5.6	98.	10	50.	27	2.0	2.0	297.0	-171.0	1.550	31	-.96	.99	26	
GEARY	3497	4	74.7	26	*****	96.	10	57.	19	3.0	*****	254.0	*****	5.210	31	3.01	1.70	26	
HAMMON 1 NNE	3871	4	72.9	30	-7.0	99.	9	51.	21	11.5	11.5	247.5	-214.5	1.721	30	*****	.47	31	
LEEDEY	5090	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.870	31	1.32	1.35	11	
MACKIE 4 NNW	5463	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.940	31	*****	.87	18	
MORAVIA 2 NNE	6035	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.143	31	-1.37	.54	18	
OKEENE	6629	4	74.8	31	-7.1	100.	10	56.	29	.0	.0	303.5	-220.5	6.780	31	4.05	1.76	26	
RETROP	7565	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.930	31	*****	.93	18	
REYDON	7579	4	76.1	31	-2.8	101.	9	52.	20	.0	.0	344.0	-87.0	1.561	31	-.77	.56	18	
SAYRE	7952	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.130	31	-.29	.81	18	
SWEETWATER 2 E	8652	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.491	30	*****	.22	11	
TALOGA	8708	4	74.5	31	-5.8	100.	10	52.	19	2.5	2.5	298.5	-175.5	4.853	31	2.42	3.05	18	
THOMAS	8815	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.140	31	*****	3.10	19	
VICI	9172	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.220	31	.94	1.65	18	
WATONGA	9364	4	74.7	31	-6.2	98.	8	54.	19	2.0	2.0	303.5	-189.5	5.732	31	3.44	1.53	26	
WEATHERFORD	9422	4	74.7	31	-5.8	100.	11	54.	19	7.5	7.5	309.5	-171.5	7.411	31	4.57	3.25	26	

AUGUST 1992 SUMMARY FOR CENTRAL DIVISION (CD5)

NAME	ID	CD	DEV			MIN	DAY	TEMP	DAY	HEAT		DEV		COOL		DEV		TOT	NUM	DEV	MAX	DAY
			MEAN	NUM	FROM					MAX	DEG	FROM	DEG	FROM	DEG	FROM	PPT					
AMBER	200	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	*****	4.790	31	*****	.94	27			
ARCADIA	288	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	*****	7.430	31	*****	2.40	26			
TINKER AFB	325	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	*****	4.282	30	*****	1.61	5			
BLANCHARD 2 SSW	830	5	74.9	31	-6.9	93.	7	56.	28	.0	.0	307.5	-213.5	3.502	31	.77	.52	19				
BRISTOW	1144	5	74.4	31	-6.5	94.	10	51.	28	.0	.0	291.0	-202.0	7.293	31	4.63	3.40	3				
CHANDLER	1684	5	74.7	31	-6.7	93.	10	54.	19	.0	.0	300.5	-207.5	4.064	31	1.44	1.80	5				
CHICKASHA EX ST	1750	5	74.9	31	-6.2	96.	10	54.	28	.0	.0	308.0	-191.0	5.130	31	2.37	1.55	14				
COX CITY 1 E	2196	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.380	31	*****	2.23	15				
CRESCENT	2242	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.230	31	*****	1.93	4				
CUSHING	2318	5	73.6	29	*****	94.	11	53.	22	.0	*****	248.5	*****	6.550	29	*****	3.25	4				
EL RENO 1 N	2818	5	75.1	31	-5.8	95.	7	55.	19	.0	.0	314.5	-178.5	5.020	31	2.23	1.04	4				
GUTHRIE	3821	5	76.3	31	-5.9	97.	8	56.	28	.0	.0	350.5	-182.5	6.730	31	4.46	1.73	4				
HENNESSEY 2 SE	4055	5	74.3	31	-7.3	95.	10	55.	19	.0	.0	287.0	-228.0	7.950	31	5.09	1.60	11				
INGALLS	4489	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.614	31	*****	2.55	4				
KINGFISHER 2 SE	4861	5	74.7	31	-7.2	98.	10	54.	19	.0	.0	300.5	-223.5	4.910	31	2.21	1.10	26				
KONAWA	4915	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.210	31	1.22	1.65	6				
MARSHALL	5589	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	10.150	31	7.58	4.43	11				
MEEKER 4 W	5779	5	73.7	28	*****	90.	7	54.	16	.0	*****	243.0	*****	3.630	31	1.17	1.01	3				
MULHALL	6110	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.700	31	*****	1.46	4				
NORMAN 3 S	6386	5	74.8	30	-6.4	96.	7	53.	16	.0	.0	294.5	-207.5	5.701	31	2.84	.92	6				
OILTON 2 SE	6616	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.421	31	*****	4.00	4				
OKEMAH	6638	5	76.0	31	-4.9	94.	10	58.	29	.0	.0	340.5	-152.5	4.371	31	1.73	2.65	5				
OKLAHOMA CTY WS	6661	5	74.8	31	-6.3	94.	7	57.	19	1.0	1.0	304.5	-194.5	5.825	31	3.22	1.22	4				
PERKINS	7003	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.000	31	4.46	2.76	26				
PIEDMONT	7068	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.750	31	*****	1.31	27				
PRAGUE	7264	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.661	31	1.23	1.30	5				
PURCELL 5 SW	7327	5	75.1	31	-6.8	93.	11	52.	28	.0	.0	314.5	-209.5	4.750	31	2.06	1.60	2				
SEMINOLE	8042	5	76.2	31	-6.4	94.	11	54.	28	.0	.0	348.0	-198.0	2.700	31	.06	.68	7				
SHAWNEE	8110	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.711	31	.21	1.10	5				
STELLA	8479	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.670	31	*****	.72	6				
STILLWATER 2 W	8501	5	74.6	31	-5.7	96.	11	54.	19	1.5	1.5	300.0	-174.0	8.500	31	5.74	3.31	4				
STROUD 1 N	8563	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.313	31	*****	1.57	5				
TECUMSEH	8751	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.780	31	*****	1.50	5				
TROUSDALE	8960	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.050	31	*****	2.20	6				
UNION CITY 1 SE	9086	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.040	31	4.16	1.54	11				
WELTY 1 SSE	9479	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.562	31	*****	3.35	5				
WEWOKA	9575	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.980	31	5.21	4.40	7				

AUGUST 1992 SUMMARY FOR EAST CENTRAL DIVISION (CD6)

NAME	ID	CD	DEV							HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
			MEAN TEMP	NUM OBS	FROM NORM	MAX TEMP	MIN TEMP	DAY	DAY									
ASHLAND	364	6	****	0	****	****	0	****	0	****	****	****	5.722	31	****	3.86	6	
BEGGS	631	6	****	0	****	****	0	****	0	****	****	****	6.360	31	****	5.22	5	
BOYNTON	1027	6	****	0	****	****	0	****	0	****	****	****	2.422	31	****	1.70	5	
CALVIN	1391	6	****	0	****	****	0	****	0	****	****	****	4.732	31	2.32	2.20	6	
CHECOTAH	1711	6	****	0	****	****	0	****	0	****	****	****	5.581	31	2.74	4.08	5	
CLAYTON 15 WNW	1858	6	****	0	****	****	0	****	0	****	****	****	3.392	31	****	1.61	6	
DEWAR 2 NE	2485	6	****	0	****	****	0	****	0	****	****	****	5.280	31	2.77	4.75	5	
DUSTIN	2690	6	****	0	****	****	0	****	0	****	****	****	5.640	31	****	4.44	5	
EUFULA	2993	6	****	0	****	****	0	****	0	****	****	****	3.240	30	****	2.52	5	
HANNA	3884	6	74.5	31	-6.5	92.	10	51.	28	.0	.0	294.0	-202.0	5.152	31	2.59	3.61	5
HARTSHORNE	3946	6	****	0	****	****	0	****	0	****	****	****	5.360	31	****	2.46	5	
HASKELL	3956	6	****	0	****	****	0	****	0	****	****	****	3.880	31	1.36	3.05	5	
HOLDENVILLE	4235	6	75.0	31	-6.5	92.	10	52.	28	.0	.0	311.5	-200.5	9.440	31	6.92	4.34	7
LAKE EUFAULA	4975	6	75.3	30	****	95.	11	56.	28	.0	****	308.5	****	4.472	30	****	2.94	5
LYONS 2 N	5437	6	****	0	****	****	0	****	0	****	****	****	3.071	31	-.09	1.86	5	
MARBLE CITY	5546	6	****	0	****	****	0	****	0	****	****	****	3.101	31	****	1.69	5	
MCALESTER FAA	5664	6	77.3	31	-4.0	94.	10	52.	28	.0	.0	380.5	-124.5	5.383	31	2.33	2.46	6
MCCURTAIN 1 SE	5693	6	76.0	31	-5.4	95.	10	51.	28	.0	.0	339.5	-168.5	2.060	31	-.85	.97	5
MUSKOGEE	6130	6	75.2	31	-5.9	93.	11	52.	29	.0	.0	316.5	-182.5	2.240	31	-.60	1.61	4
OKMULGEE W W	6670	6	73.8	30	-5.8	94.	11	51.	28	2.5	2.5	267.0	-186.0	4.312	30	****	3.01	5
OKTAHA 2 NE	6678	6	****	0	****	****	0	****	0	****	****	****	3.660	31	****	2.97	5	
QUINTON	7372	6	****	0	****	****	0	****	0	****	****	****	1.884	31	-1.18	.79	5	
SALLISAW 2 NE	7862	6	74.0	31	-7.0	92.	10	50.	28	.0	.0	277.5	-218.5	1.080	31	-2.31	.76	4
SCIPIO	7979	6	****	0	****	****	0	****	0	****	****	****	5.740	31	****	3.65	5	
SCRAPER	7993	6	****	0	****	****	0	****	0	****	****	****	2.850	31	****	1.46	5	
SHORT	8170	6	****	0	****	****	0	****	0	****	****	****	3.390	31	****	1.21	27	
STILWELL 1 NE	8506	6	72.7	31	-6.1	93.	10	47.	28	6.0	6.0	245.5	-182.5	2.763	31	-1.13	1.90	5
TAHLEQUAH	8677	6	73.6	31	-6.2	93.	10	48.	28	.5	.5	268.0	-191.0	1.871	31	-1.84	1.10	4
WEBBERS FALLS	9445	6	74.0	31	-6.2	94.	11	50.	29	.5	.5	280.5	-190.5	3.970	31	1.08	2.78	5
WESTVILLE	9523	6	****	0	****	****	0	****	0	****	****	****	5.290	31	****	2.95	4	
WETUMKA 3 NE	9571	6	****	0	****	****	0	****	0	****	****	****	6.340	31	3.75	4.16	5	

AUGUST 1992 SUMMARY FOR SOUTHWEST DIVISION (CD7)

NAME	ID	CD	DEV							HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
			MEAN TEMP	NUM OBS	FROM NORM	MAX TEMP	MIN TEMP	DAY	DAY									
ALTUS IRR STA	179	7	77.2	31	-5.6	101.	9	55.	20	.0	.0	378.5	-173.5	5.450	31	3.00	3.50	26
ALTUS DAM	184	7	75.1	31	-7.4	98.	11	58.	28	9.0	9.0	321.0	-222.0	3.190	31	.80	1.47	26
ANADARKO	224	7	74.6	31	-6.8	96.	11	53.	19	.0	.0	296.5	-211.5	6.041	30	****	1.45	27
APACHE	260	7	****	0	****	****	0	****	0	****	****	****	5.360	31	2.93	1.90	26	
ALTUS AFB	447	7	****	0	****	****	0	****	0	****	****	****	3.203	29	****	1.98	26	
CARNEGIE 2 ENE	1504	7	75.3	31	-6.5	97.	10	53.	28	.0	.0	318.5	-202.5	6.110	31	3.79	2.00	26
CHATTANOOGA	1706	7	78.2	31	-4.9	101.	10	54.	28	.0	.0	410.5	-150.5	.871	31	-1.81	.51	31
DUNCAN 12 W	2668	7	****	0	****	****	0	****	0	****	****	****	1.314	31	****	.55	31	
FREDERICK	3353	7	76.3	31	-6.7	98.	11	57.	28	.0	.0	351.5	-206.5	3.200	31	.49	2.50	26
GRANDFIELD 4 NW	3709	7	****	0	****	****	0	****	0	****	****	****	.840	31	-1.62	.35	26	
HOBART FAA APT	4204	7	75.8	30	-6.2	100.	10	56.	20	1.0	1.0	325.5	-201.5	4.310	30	****	1.04	27
HOLLIS	4249	7	78.3	23	****	102.	10	52.	28	.0	****	307.0	****	.500	23	****	.39	11
HOLLISTER	4250	7	****	0	****	****	0	****	0	****	****	****	2.110	31	****	1.56	26	
LAWTON	5063	7	76.6	31	-5.7	99.	11	57.	28	.5	.5	360.5	-175.5	1.900	31	-.31	.56	27
FORT SILL	5068	7	76.3	31	****	99.	10	57.	28	.0	****	351.5	****	2.152	31	****	.72	31
LOOKEBA 2 ENE	5329	7	****	0	****	****	0	****	0	****	****	****	8.190	31	5.61	3.67	26	
MANGUM RES STA	5509	7	75.0	29	****	100.	10	53.	30	1.0	****	292.0	****	3.000	31	.72	.97	26
RANDLETT 9 E	7403	7	****	0	****	****	0	****	0	****	****	****	1.750	31	****	1.36	1	
ROOSEVELT	7727	7	****	0	****	****	0	****	0	****	****	****	5.510	31	3.13	1.95	26	
SEDAN	8016	7	****	0	****	****	0	****	0	****	****	****	4.860	31	****	1.95	26	
SNYDER	8299	7	****	0	****	****	0	****	0	****	****	****	5.404	31	2.89	3.30	26	
VINSON 3 WNW	9212	7	****	0	****	****	0	****	0	****	****	****	.900	31	-1.39	.36	26	
WALTERS	9278	7	78.4	29	****	99.	10	54.	28	.0	****	389.5	****	.440	25	****	.35	18
WICHITA MT WLR	9629	7	73.7	29	****	95.	11	51.	15	11.5	****	262.5	****	2.740	31	.58	1.10	26
WILLOW	9668	7	****	0	****	****	0	****	0	****	****	****	2.181	31	****	1.15	31	

AUGUST 1992 SUMMARY FOR SOUTH CENTRAL DIVISION (CD8)

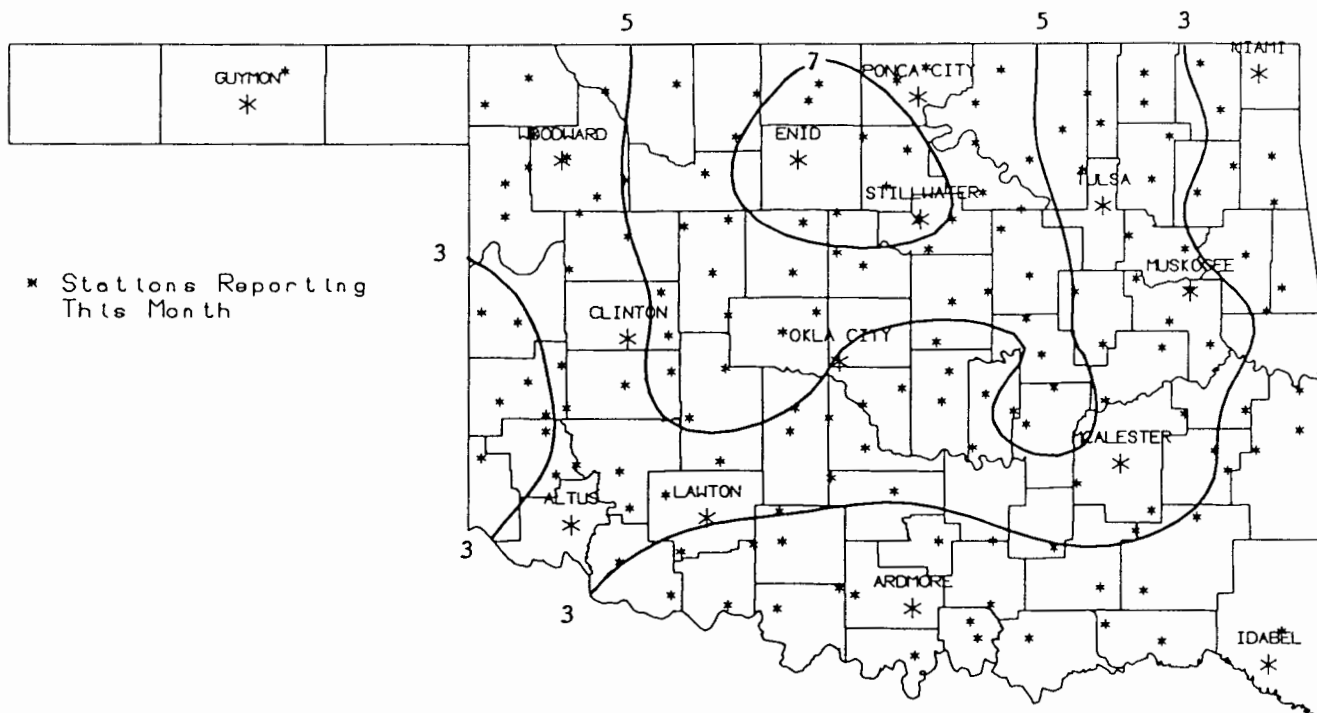
NAME	ID	CD	DEV					HEAT				COOL				DEV			
			MEAN	NUM	FROM	MAX	MIN	DEG	DEG	FROM	DEG	DEG	FROM	DEG	DEG	TOT	NUM	FROM	MAX
TEMP	OBS	NORM	TEMP	DAY	TEMP	DAY	DAY	NORM	DAY	NORM	DAY	NORM	PPT	OBS	NORM	24-HR	DAY		
ADA	17	8	75.2	31	-6.1	92.	10	54.	28	.0	.0	315.0	-190.0	2.691	31	-.24	1.52	6	
ALLEN	147	8	****	0	****	****	0	****	0	****	****	****	****	3.750	31	****	1.30	15	
ARDMORE	292	8	76.9	28	****	94.	10	57.	28	.0	****	334.0	****	1.021	28	****	.60	14	
ATOKA DAM	394	8	76.7	21	****	95.	11	53.	28	.0	****	246.5	****	2.620	21	****	1.68	6	
BOKCHITO	917	8	****	0	****	****	0	****	0	****	****	****	****	3.520	31	****	2.01	7	
CANEY	1437	8	77.3	31	****	98.	6	58.	28	.0	****	382.5	****	2.330	31	****	1.78	6	
CENTRAHOMA	1648	8	****	0	****	****	0	****	0	****	****	****	****	3.150	31	****	2.00	6	
CHICKASAW NRA	1745	8	76.1	31	-5.5	95.	30	50.	29	.0	.0	345.5	-169.5	.950	31	-1.18	.40	19	
COLEMAN	2011	8	****	0	****	****	0	****	0	****	****	****	****	1.570	31	****	1.28	4	
COMANCHE	2054	8	****	0	****	****	0	****	0	****	****	****	****	2.061	31	-.69	.78	3	
DAISY 4 ENE	2354	8	****	0	****	****	0	****	0	****	****	****	****	2.672	31	-.53	1.61	6	
DUNCAN	2660	8	75.8	31	-6.3	96.	8	55.	28	1.5	1.5	336.5	-193.5	3.360	31	.93	1.83	14	
DURANT USDA	2678	8	75.6	31	-5.9	95.	11	52.	28	.0	.0	329.5	-182.5	3.000	31	.39	2.70	6	
ELMORE CITY	2872	8	****	0	****	****	0	****	0	****	****	****	****	2.030	30	****	.52	13	
FARRIS 3 WNW	3083	8	****	0	****	****	0	****	0	****	****	****	****	2.590	31	.33	1.28	6	
GRADY	3688	8	****	0	****	****	0	****	0	****	****	****	****	2.020	31	****	.83	2	
HEALDTON	4001	8	76.9	14	****	95.	29	51.	28	.0	****	166.0	****	1.911	31	-.53	.87	2	
HENNEPIN	4052	8	****	0	****	****	0	****	0	****	****	****	****	1.040	31	****	.37	14	
KETCHUM RANCH	4780	8	****	0	****	****	0	****	0	****	****	****	****	2.030	31	****	.66	18	
KINGSTON	4865	8	****	0	****	****	0	****	0	****	****	****	****	.670	31	-1.93	.33	15	
LEHIGH	5108	8	****	0	****	****	0	****	0	****	****	****	****	3.554	31	****	2.90	6	
LINDSAY 2 W	5216	8	75.3	31	-6.3	95.	10	52.	28	.0	.0	319.0	-196.0	2.421	31	-.01	.55	15	
LOCO 6 SE	5247	8	****	0	****	****	0	****	0	****	****	****	****	2.390	31	****	1.24	2	
MADILL	5468	8	77.1	31	-5.7	94.	10	53.	28	.0	.0	376.0	-176.0	.670	31	-1.91	.26	14	
MARIETTA	5563	8	77.7	31	-4.9	96.	10	54.	28	.0	.0	394.5	-151.5	.710	31	-1.96	.23	19	
MARLOW 1 WSW	5581	8	75.8	31	-5.6	97.	10	52.	28	.0	.0	334.0	-174.0	3.131	31	.53	.71	27	
MCGEE CREEK DAM	5713	8	75.3	31	****	95.	11	52.	28	.0	****	319.0	****	1.990	31	****	1.34	6	
PAULS VALLEY	6926	8	75.5	31	-6.9	94.	11	50.	29	.0	.0	325.5	-213.5	2.851	31	.65	1.30	1	
PONTOTOC	7214	8	****	0	****	****	0	****	0	****	****	****	****	2.330	31	-.40	1.60	5	
TISHOMINGO NWLR	8884	8	75.0	20	****	95.	7	53.	28	.0	****	199.5	****	.871	31	-1.76	.37	2	
TUSSY	9032	8	****	0	****	****	0	****	0	****	****	****	****	3.240	31	****	2.18	15	
WAURIKA	9395	8	77.8	31	-5.5	100.	10	53.	28	.0	.0	395.5	-171.5	2.550	31	-.10	1.38	2	
WAURIKA DAM	9399	8	77.3	27	****	98.	10	53.	28	.0	****	331.5	****	1.712	29	****	.58	27	

AUGUST 1992 SUMMARY FOR SOUTHEAST DIVISION (CD9)

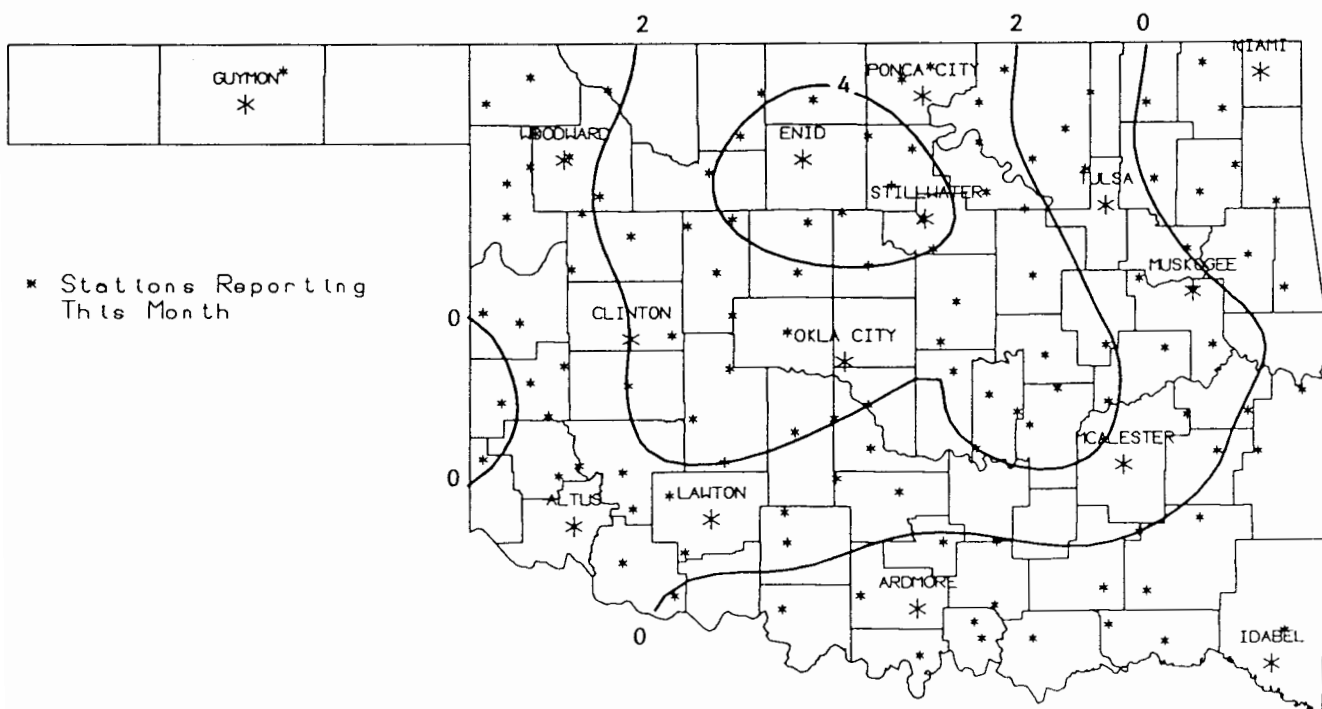
NAME	ID	CD	DEV					HEAT				COOL				DEV			
			MEAN	NUM	FROM	MAX	MIN	DEG	DEG	FROM	DEG	DEG	FROM	DEG	DEG	TOT	NUM	FROM	MAX
TEMP	OBS	NORM	TEMP	DAY	TEMP	DAY	DAY	NORM	DAY	NORM	DAY	NORM	PPT	OBS	NORM	24-HR	DAY		
ANTLERS	256	9	75.5	31	-5.7	93.	10	51.	28	.0	.0	324.0	-178.0	2.160	31	-.63	.96	5	
BATTIEST 1 SSW	567	9	72.5	31	****	90.	10	46.	28	4.0	****	238.0	****	3.160	31	****	1.85	6	
BEAR MT TWR	584	9	75.6	19	****	95.	27	54.	31	.0	****	200.5	****	1.270	25	****	1.22	6	
BENGAL	670	9	****	0	****	****	0	****	0	****	****	****	****	3.380	31	****	1.53	6	
BOSWELL 4 NNW	980	9	76.6	31	-4.7	96.	23	50.	28	.0	.0	359.5	-145.5	1.737	31	-.77	1.70	6	
BROKEN BOW 1 N	1162	9	****	0	****	****	0	****	0	****	****	****	****	.860	31	-2.07	.69	5	
BROKEN BOW DAM	1168	9	76.9	31	-3.3	95.	11	53.	29	.0	.0	368.0	-103.0	2.020	31	-1.09	1.02	13	
CARNASAW TWR	1499	9	****	0	****	****	0	****	0	****	****	****	****	.770	31	-2.18	.58	6	
CARTER TWR	1544	9	****	0	****	****	0	****	0	****	****	****	****	1.090	31	-2.56	.90	6	
FANSHAW	3065	9	****	0	****	****	0	****	0	****	****	****	****	2.710	31	-.35	1.19	1	
FLAGPOLE TWR	3169	9	****	0	****	****	0	****	0	****	****	****	****	2.480	31	****	1.55	3	
HEAVENER 1 SE	4008	9	****	0	****	****	0	****	0	****	****	****	****	1.591	31	-1.75	.92	10	
HEE MT TWR	4017	9	****	0	****	****	0	****	0	****	****	****	****	1.500	31	-1.43	1.18	6	
HUGO	4384	9	76.7	31	-5.1	93.	11	55.	28	.0	.0	362.5	-158.5	1.082	31	-1.59	.54	6	
IDABEL	4451	9	75.9	31	-4.6	95.	11	53.	28	.0	.0	338.0	-143.0	.643	31	-1.92	.34	6	
POTEAU W W	7254	9	75.2	31	****	94.	11	49.	29	.0	****	316.5	****	1.211	31	****	.53	4	
SMITHVILLE 1 W	8285	9	72.9	31	-5.7	91.	10	45.	28	5.5	5.5	249.5	-172.5	1.703	31	-1.63	1.70	5	
SPIRO	8416	9	****	0	****	****	0	****	0	****	****	****	****	1.690	31	-.64	.65	11	
TUSKAHOMA	9023	9	74.6	31	-6.5	92.	10	47.	28	.5	.5	297.5	-201.5	2.472	31	-.83	1.20	6	
VALLIANT 3 W	9118	9	****	0	****	****	0	****	0	****	****	****	****	1.165	31	-1.29	.80	6	
WILBURTON 9 ENE	9634	9	74.5	31	-5.9	94.	10	48.	28	.0	.0	295.5	-181.5	3.102	31	.00	1.85	4	

AUGUST 1992 CLIMATE DIVISION SUMMARY

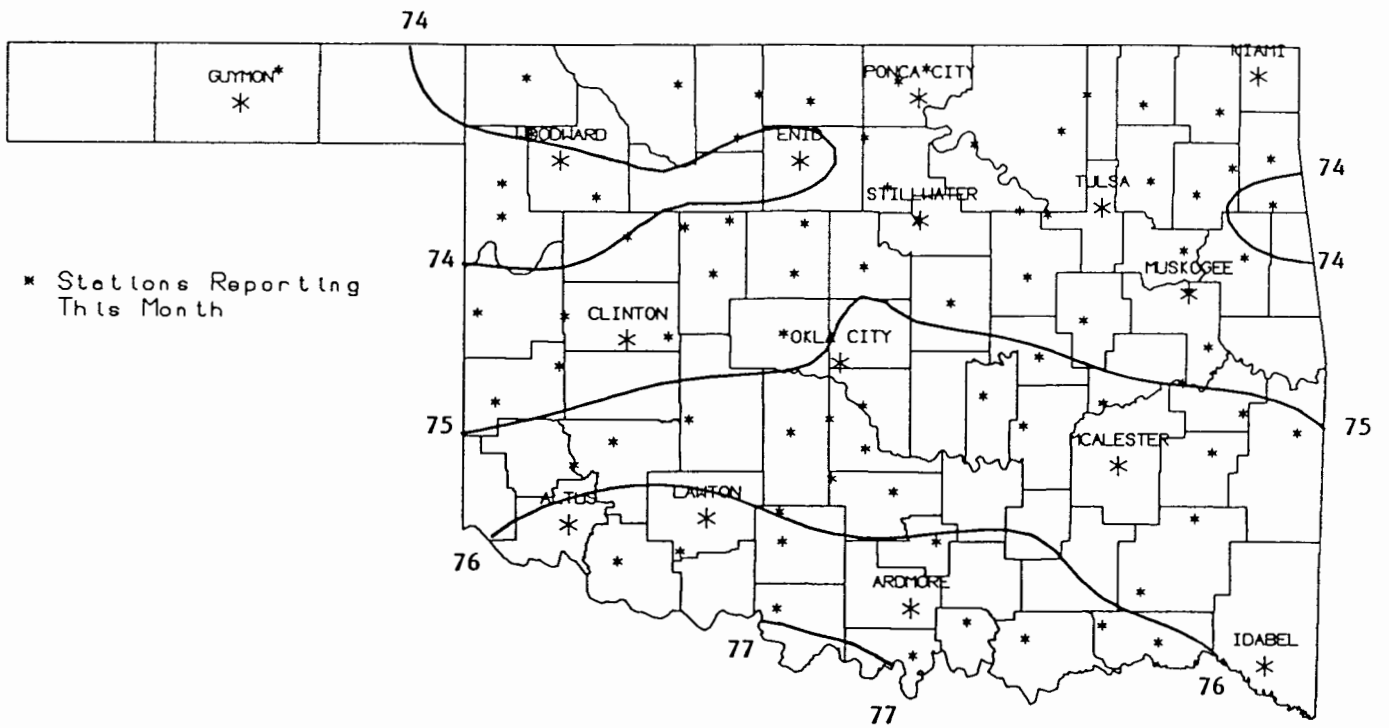
CLIMATE DIV	MEAN TEMP	NUM STA	DEV				HEAT DEGREE DAYS	DEV FROM NORM	COOL DEGREE DAYS	DEV FROM NORM	TOT PPT	NUM STA	DEV		24-HR DAY	
			FROM NORM	MAX TEMP	DAY	MIN TEMP							DAY	FROM NORM		MAX
1	73.0	12	-5.1	107.0	9	46.0	27	14.2	14.2	263.4	-143.8	3.12	14	.52	2.02	11
2	74.5	14	-6.5	103.0	11	48.0	28	3.0	3.0	296.1	-199.1	6.17	21	3.15	5.17	4
3	74.2	18	-5.8	98.0	11	48.0	28	.9	.9	285.4	-179.1	3.83	30	.50	4.50	5
4	74.5	10	-6.1	101.0	9	50.0	27	3.7	3.7	298.9	-186.9	4.07	20	1.48	3.25	26
5	75.1	14	-6.2	98.0	10	51.0	28	.2	.2	311.5	-194.1	5.50	35	2.87	4.43	11
6	74.7	11	-6.0	95.0	10	47.0	28	.9	.9	299.0	-188.3	4.20	28	1.31	5.22	5
7	76.2	9	-6.1	102.0	10	51.0	15	1.2	1.2	346.0	-190.3	3.35	20	.92	3.67	26
8	76.2	12	-6.0	100.0	10	50.0	29	.1	.1	347.7	-185.5	2.28	29	-.30	2.90	6
9	75.1	10	-5.6	96.0	23	45.0	28	1.0	1.0	314.9	-171.1	1.83	20	-1.15	1.85	4



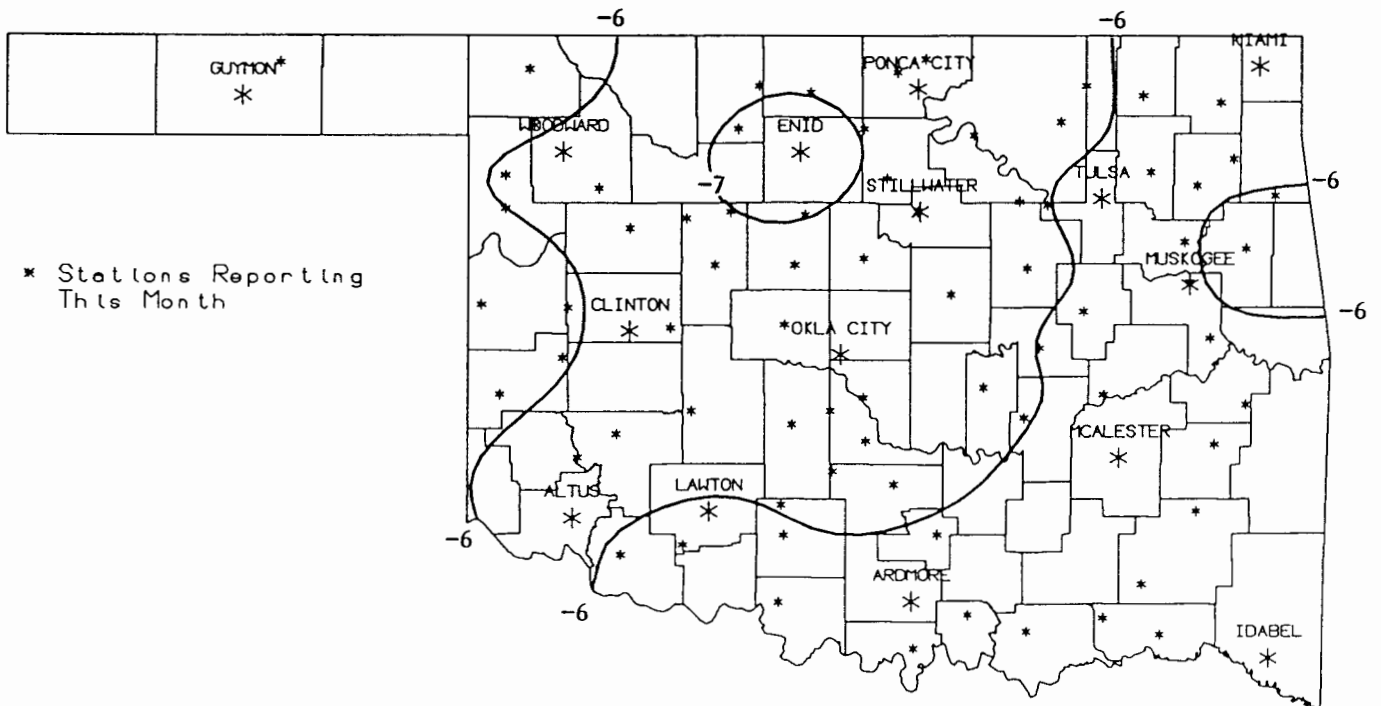
**AUGUST 1992 TOTAL PRECIPITATION
(Inches)**



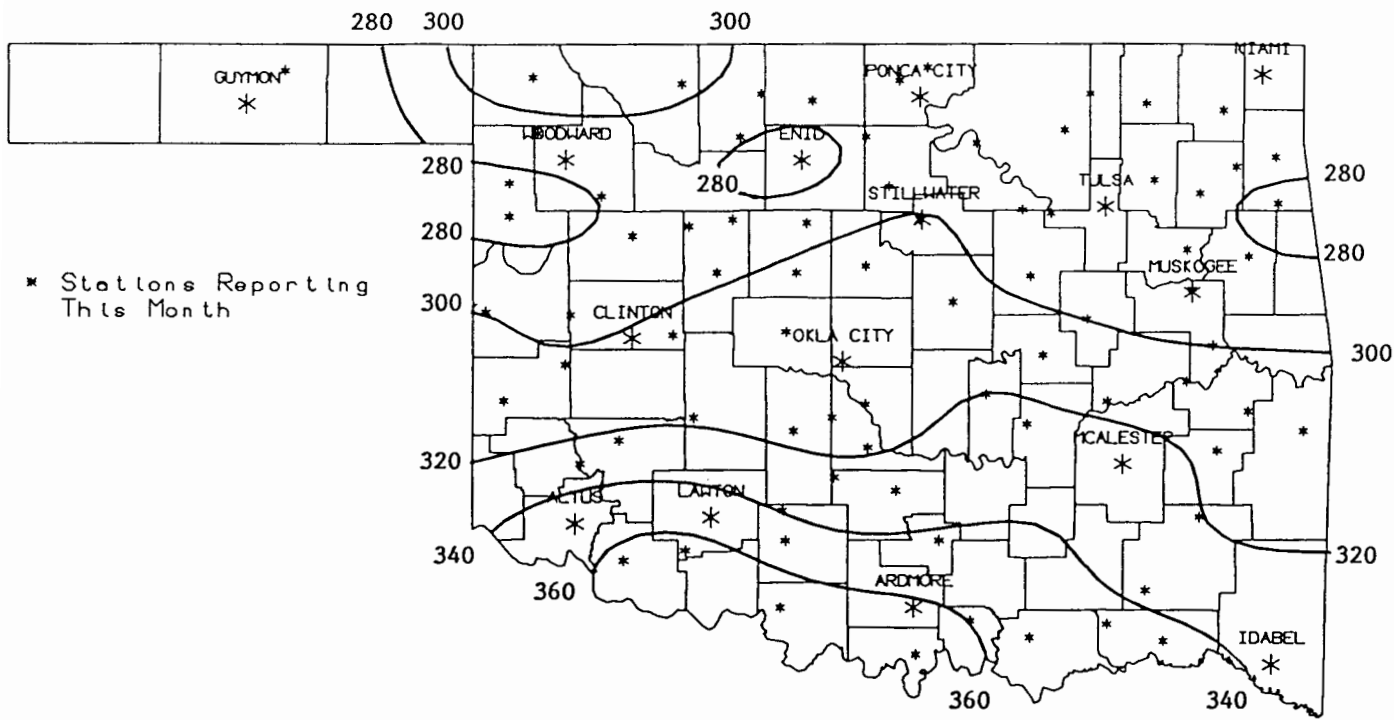
**AUGUST 1992 DEVIATION FROM NORMAL PRECIPITATION
(Inches)**



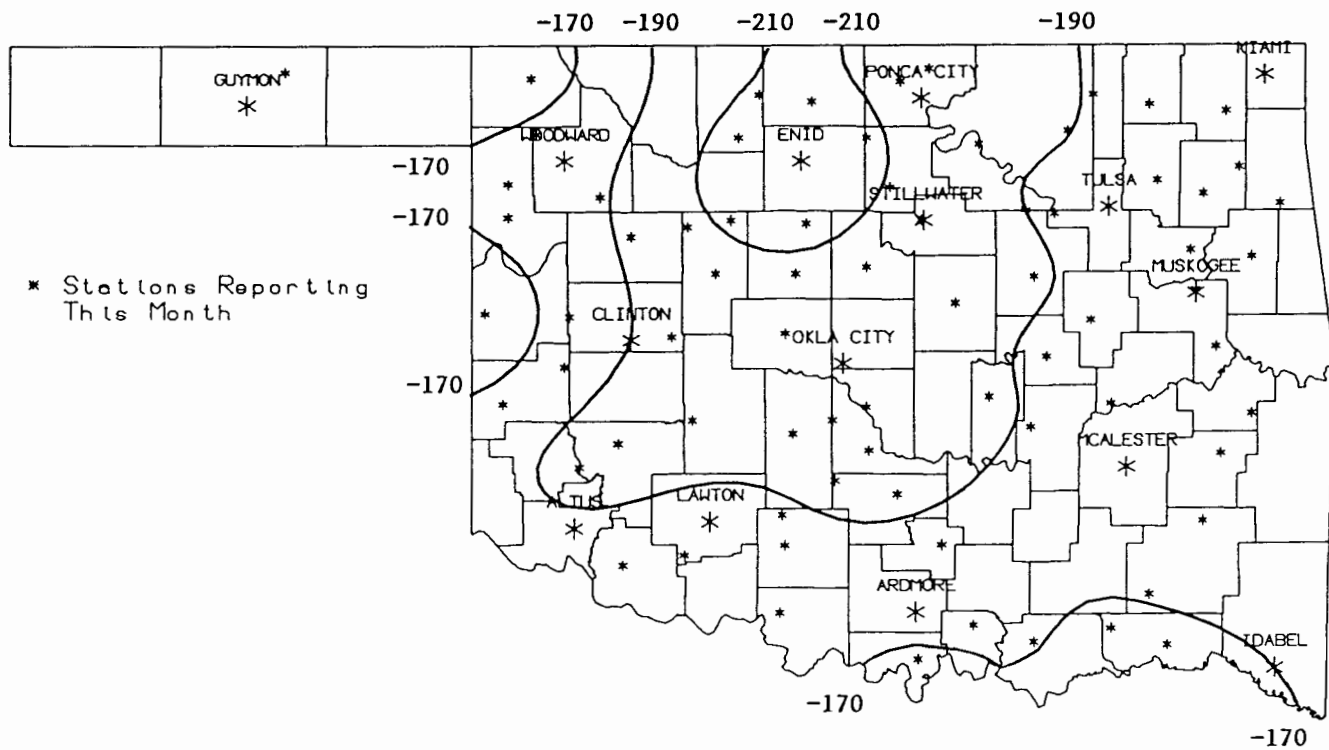
**AUGUST 1992 AVERAGE MONTHLY TEMPERATURES
(Degrees F)**



**AUGUST 1992 DEVIATION FROM NORMAL TEMPERATURES
(Degrees F)**

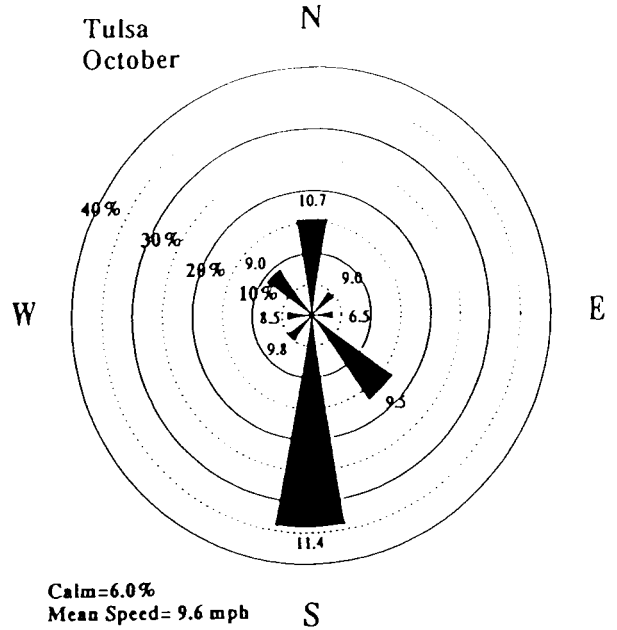
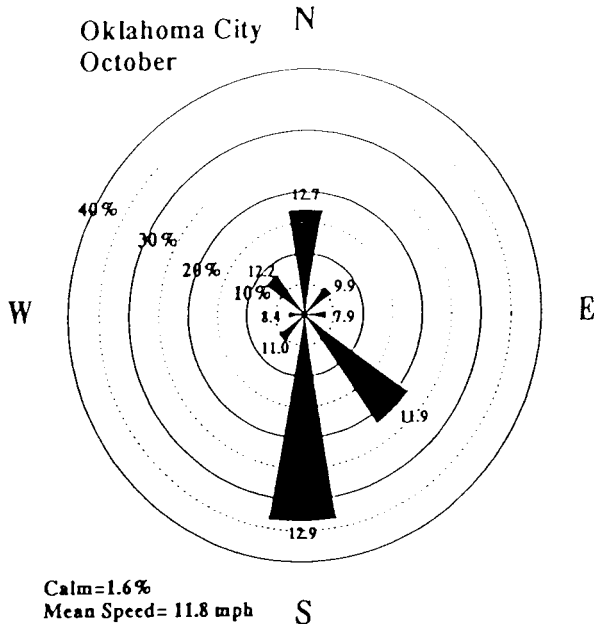


AUGUST 1992 COOLING DEGREE DAYS



AUGUST 1992 DEVIATION FROM NORMAL COOLING DEGREE DAYS

October 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.



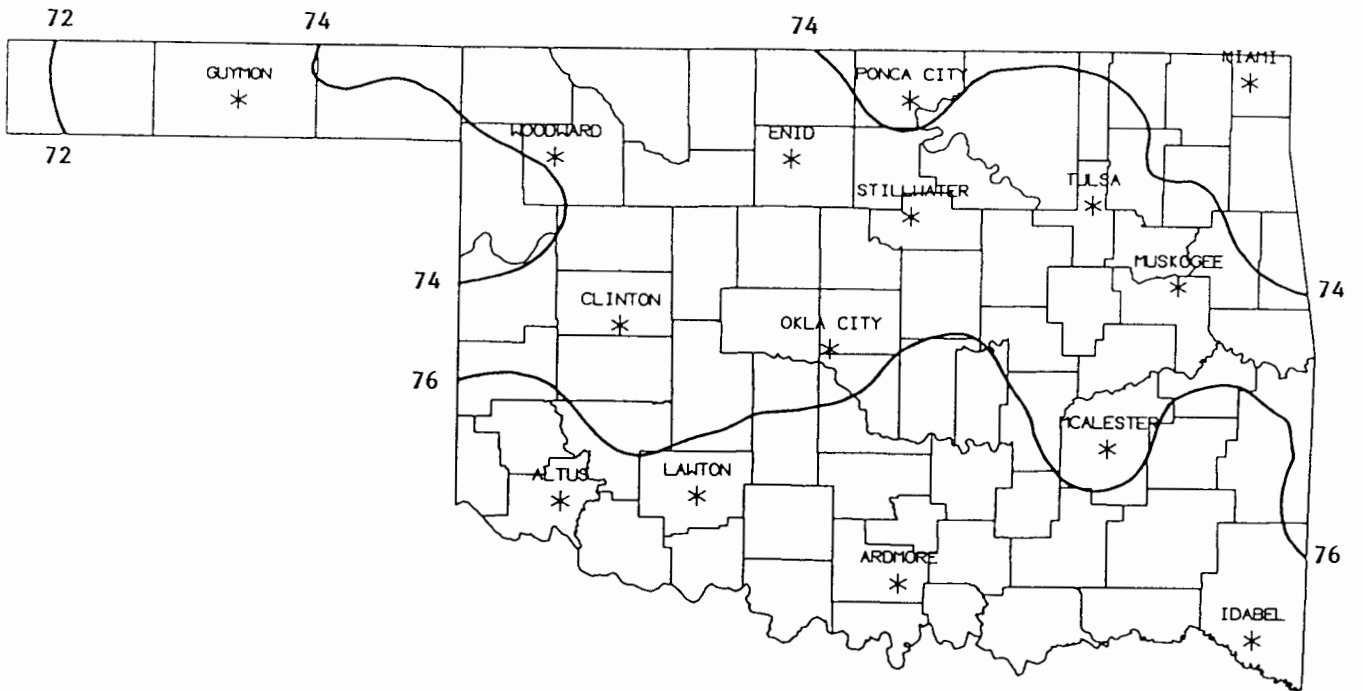
OCTOBER 1992 SUNRISE AND SUNSET

OKLAHOMA CITY

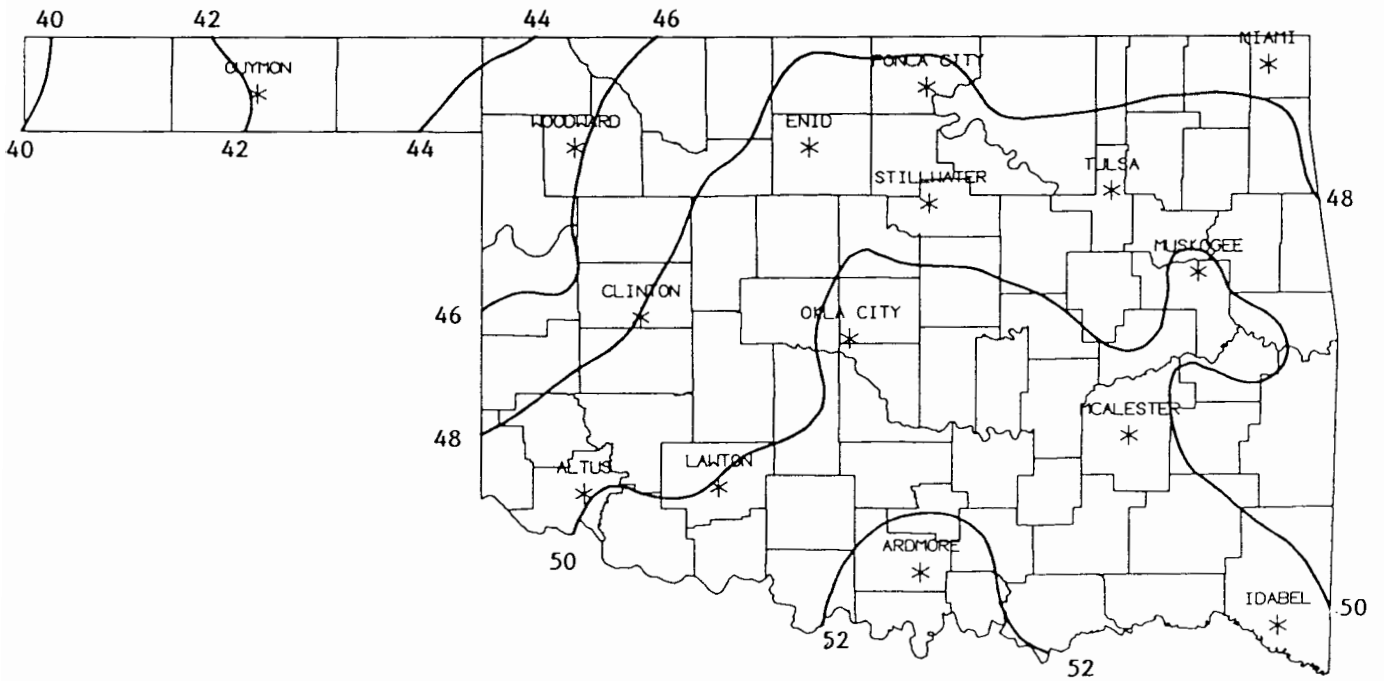
TULSA

DATE	SUNRISE	SUNSET	DAYLIGHT
9210 1	7:24AM	7:14PM CDT	11 hrs 50 mins
9210 2	7:25AM	7:13PM CDT	11 hrs 48 mins
9210 3	7:26AM	7:11PM CDT	11 hrs 46 mins
9210 4	7:27AM	7:10PM CDT	11 hrs 43 mins
9210 5	7:28AM	7: 9PM CDT	11 hrs 41 mins
9210 6	7:28AM	7: 7PM CDT	11 hrs 39 mins
9210 7	7:29AM	7: 6PM CDT	11 hrs 37 mins
9210 8	7:30AM	7: 5PM CDT	11 hrs 35 mins
9210 9	7:31AM	7: 3PM CDT	11 hrs 32 mins
921010	7:32AM	7: 2PM CDT	11 hrs 30 mins
921011	7:32AM	7: 1PM CDT	11 hrs 28 mins
921012	7:33AM	6:59PM CDT	11 hrs 26 mins
921013	7:34AM	6:58PM CDT	11 hrs 24 mins
921014	7:35AM	6:57PM CDT	11 hrs 22 mins
921015	7:36AM	6:55PM CDT	11 hrs 19 mins
921016	7:37AM	6:54PM CDT	11 hrs 17 mins
921017	7:38AM	6:53PM CDT	11 hrs 15 mins
921018	7:39AM	6:52PM CDT	11 hrs 13 mins
921019	7:39AM	6:50PM CDT	11 hrs 11 mins
921020	7:40AM	6:49PM CDT	11 hrs 9 mins
921021	7:41AM	6:48PM CDT	11 hrs 7 mins
921022	7:42AM	6:47PM CDT	11 hrs 5 mins
921023	7:43AM	6:46PM CDT	11 hrs 3 mins
921024	7:44AM	6:45PM CDT	11 hrs 1 mins
921025	7:45AM	6:44PM CDT	10 hrs 59 mins
921026	6:46AM	5:43PM CST	10 hrs 57 mins
921027	6:47AM	5:42PM CST	10 hrs 55 mins
921028	6:48AM	5:40PM CST	10 hrs 53 mins
921029	6:49AM	5:39PM CST	10 hrs 51 mins
921030	6:50AM	5:38PM CST	10 hrs 49 mins
921031	6:51AM	5:38PM CST	10 hrs 47 mins

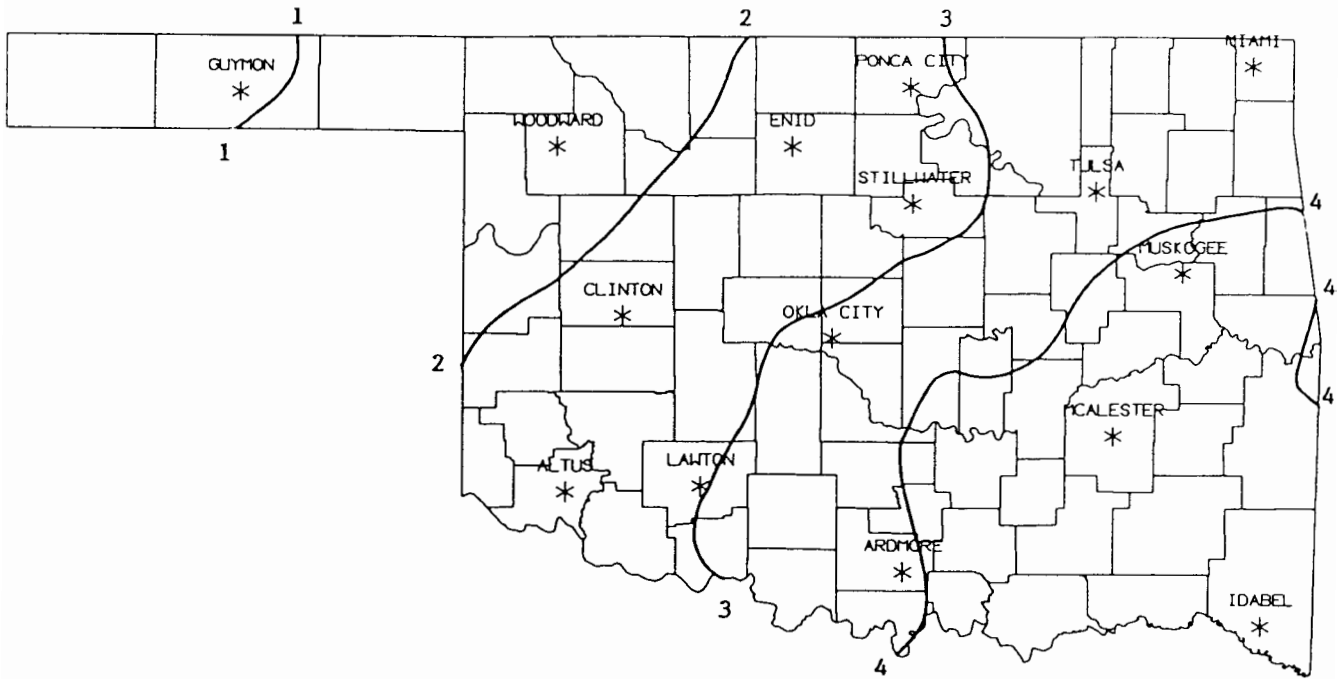
DATE	SUNRISE	SUNSET	DAYLIGHT
9210 1	7:18AM	7: 7PM CDT	11 hrs 49 mins
9210 2	7:19AM	7: 6PM CDT	11 hrs 47 mins
9210 3	7:19AM	7: 4PM CDT	11 hrs 45 mins
9210 4	7:20AM	7: 3PM CDT	11 hrs 43 mins
9210 5	7:21AM	7: 1PM CDT	11 hrs 40 mins
9210 6	7:22AM	7: 0PM CDT	11 hrs 38 mins
9210 7	7:23AM	6:59PM CDT	11 hrs 36 mins
9210 8	7:24AM	6:57PM CDT	11 hrs 34 mins
9210 9	7:24AM	6:56PM CDT	11 hrs 31 mins
921010	7:25AM	6:55PM CDT	11 hrs 29 mins
921011	7:26AM	6:53PM CDT	11 hrs 27 mins
921012	7:27AM	6:52PM CDT	11 hrs 25 mins
921013	7:28AM	6:51PM CDT	11 hrs 23 mins
921014	7:29AM	6:49PM CDT	11 hrs 20 mins
921015	7:30AM	6:48PM CDT	11 hrs 18 mins
921016	7:31AM	6:47PM CDT	11 hrs 16 mins
921017	7:32AM	6:45PM CDT	11 hrs 14 mins
921018	7:32AM	6:44PM CDT	11 hrs 12 mins
921019	7:33AM	6:43PM CDT	11 hrs 9 mins
921020	7:34AM	6:42PM CDT	11 hrs 7 mins
921021	7:35AM	6:40PM CDT	11 hrs 5 mins
921022	7:36AM	6:39PM CDT	11 hrs 3 mins
921023	7:37AM	6:38PM CDT	11 hrs 1 mins
921024	7:38AM	6:37PM CDT	10 hrs 59 mins
921025	7:39AM	6:36PM CDT	10 hrs 57 mins
921026	6:40AM	5:35PM CST	10 hrs 55 mins
921027	6:41AM	5:34PM CST	10 hrs 53 mins
921028	6:42AM	5:33PM CST	10 hrs 51 mins
921029	6:43AM	5:32PM CST	10 hrs 49 mins
921030	6:44AM	5:31PM CST	10 hrs 47 mins
921031	6:45AM	5:30PM CST	10 hrs 45 mins



OCTOBER 30-YEAR MEAN DAILY MAXIMUM TEMPERATURE



OCTOBER 30-YEAR MEAN DAILY MINIMUM TEMPERATURE



OCTOBER 30-YEAR MEAN MONTHLY PRECIPITATION

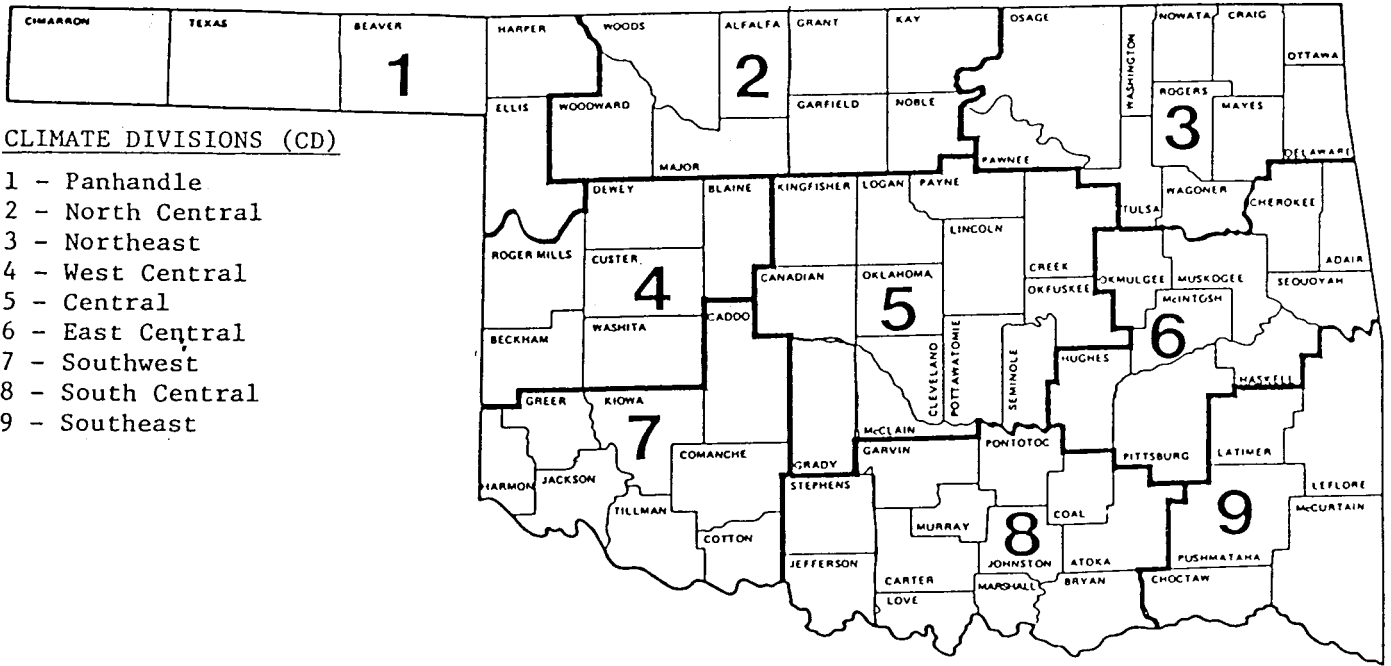
90-DAY NATIONAL WEATHER SERVICE OUTLOOK

(September - November 1992)

**Precipitation - Above Normal West
Near Normal Elsewhere**

Temperature - Below 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:

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

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.

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).

OKLAHOMA CITY CLIMATE CALENDAR

October 1992

Normal 1	Actual	Normal 2	Actual	Normal 3	Actual	Normal 4	Actual	Normal 5	Actual	Normal 6	Actual	Normal 7	Actual		
80.2 max 54.6 min .08 ppt 2 hdd 5 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	97-1928 61-1985 38-1958 74-1911 2-28-1959	80.3 max 55.6 min .26 ppt 2 hdd 5 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	97-1951 57-1902 41-1975 73-1911 4-52-1955	79.2 max 55.9 min .18 ppt 2 hdd 4 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	96-1951 56-1959 40-1975 73-1954 1-59-1981	77.8 max 55.9 min .10 ppt 2 hdd 4 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	96-1931 51-1902 40-1891 75-1911 2-22-1955	77.7 max 53.4 min .10 ppt 2 hdd 4 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	95-1947 53-1988 38-1992 69-1981 1-74-1970	74.8 max 53.8 min .08 ppt 3 hdd 3 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	94-1939 55-1891 40-1976 72-1931 1-38-1989	75.5 max 52.2 min .08 ppt 3 hdd 2 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	94-1979 50-1976 32-1952 73-1939 1-41-1967		
Normal 8	Actual	Normal 9	Actual	Normal 10	Actual	Normal 11	Actual	Normal 12	Actual	Normal 13	Actual	Normal 14	Actual		
76.0 max 53.5 min .05 ppt 4 hdd 3 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	94-1979 50-1970 38-1976 71-1949 30-1978	77.1 max 52.8 min .08 ppt 3 hdd 3 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	96-1965 52-1909 34-1892 72-1949 2-09-1961	76.9 max 52.4 min .04 ppt 3 hdd 3 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	95-1965 49-1985 35-1979 71-1973 94-1985	76.5 max 51.5 min .11 ppt 3 hdd 3 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	94-1979 51-1987 35-1896 65-1972 1-88-1981	76.6 max 53.4 min .05 ppt 4 hdd 4 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	94-1978 47-1966 34-1987 70-1928 2-45-1923	77.4 max 53.8 min .06 ppt 3 hdd 4 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	90-1963 52-1969 36-1893 72-1899 1-44-1923	76.2 max 52.9 min .08 ppt 3 hdd 3 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	91-1950 47-1923 32-1969 70-1999 2-45-1956		
Normal 15	Actual	Normal 16	Actual	Normal 17	Actual	Normal 18	Actual	Normal 19	Actual	Normal 20	Actual	Normal 21	Actual		
74.2 max 52.4 min .09 ppt 4 hdd 2 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	92-1962 54-1914 38-1974 68-1968 1-46-1953	74.6 max 50.0 min .06 ppt 5 hdd 2 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	95-1917 54-1941 31-1977 67-1965 1-08-1981	73.2 max 49.8 min .07 ppt 5 hdd 2 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	96-1972 51-1925 33-1976 68-1934 1-43-1942	72.1 max 49.1 min .15 ppt 5 hdd 1 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	91-1932 50-1989 33-1898 67-1934 2-34-1960	71.5 max 47.3 min .14 ppt 7 hdd 1 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	92-1894 46-1925 25-1917 68-1979 4-98-1983	72.0 max 48.4 min .23 ppt 6 hdd 1 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	93-1979 42-1910 26-1976 72-1979 5-45-1983	71.8 max 48.8 min .15 ppt 6 hdd 1 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	90-1978 46-1930 30-1917 66-1941 3-70-1972		
Normal 22	Actual	Normal 23	Actual	Normal 24	Actual	Normal 25	Actual	Normal 26	Actual	Normal 27	Actual	Normal 28	Actual		
71.3 max 49.2 min .13 ppt 6 hdd 1 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	87-1939 42-1936 31-1898 65-1941 1-87-1953	69.6 max 48.7 min .06 ppt 7 hdd 1 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	89-1927 45-1895 25-1917 67-1934 1-58-1920	69.0 max 46.3 min .05 ppt 8 hdd 0 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	88-1927 48-1949 32-1917 68-1939 1-44-1920	68.7 max 46.0 min .06 ppt 8 hdd 0 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	87-1939 43-1957 29-1957 68-1939 1-65-1989	70.4 max 46.3 min .04 ppt 7 hdd 1 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	92-1891 42-1936 26-1957 71-1939 3-76-1918	69.3 max 46.4 min .09 ppt 8 hdd 1 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	86-1922 43-1919 22-1957 66-1940 3-19-1984	67.7 max 45.6 min .07 ppt 9 hdd 0 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	89-1938 34-1925 22-1925 65-1961 1-38-1991		
Normal 29	Actual	Normal 30	Actual	Normal 31	Actual	OCTOBER AVERAGES									
69.4 max 46.8 min .08 ppt 7 hdd 1 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	89-1950 34-1925 22-1917 67-1961 1-61-1941	69.1 max 46.4 min .19 ppt 8 hdd 1 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	87-1937 41-1991 16-1917 67-1946 2-84-1974	67.8 max 46.7 min .12 ppt 9 hdd 1 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	86-1938 36-1991 25-1925 65-1982 1-82-1972	TEMPERATURE : 62.1°F									
								PRECIPITATION : 3.13"							
								HEATING DEGREE DAYS : 155							
								COOLING DEGREE DAYS : 67							

TULSA CLIMATE CALENDAR

The data on this calendar are for Tulsa. Normal values are calculated for the period 1948-1991. Temperature extremes are for the period 1905-1992; precipitation extremes are for the period 1948-1991.

October 1992

Normal 1	Actual	Normal 2	Actual	Normal 3	Actual	Normal 4	Actual	Normal 5	Actual	Normal 6	Actual	Normal 7	Actual	
81.0 54.0 .08 2 5 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	97-1910 62-1985 38-1985 66-1971 2.95-1986	81.0 56.0 .18 2 5 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	96-1978 65-1981 39-1975 73-1954 5.45-1959	80.0 56.0 .05 2 5 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	95-1963 63-1959 39-1987 74-1983 1.46-1990	80.0 56.0 .12 2 5 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	97-1931 64-1950 39-1968 70-1954 2.17-1955	78.0 55.0 .18 2 4 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	95-1947 50-1988 37-1984 73-1981 2.17-1970	77.0 53.0 .12 3 3 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	98-1939 57-1988 35-1932 68-1990 3.24-1951	77.0 53.0 .05 3 3 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	98-1979 52-1988 33-1952 67-1970 1.12-1962	
77.0 53.0 .06 3 3 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	97-1979 56-1990 32-1952 72-1979 1.61-1970	78.0 53.0 .03 3 4 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	97-1963 53-1990 32-1917 70-1973 91-1968	77.0 52.0 .03 4 3 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	95-1963 58-1987 30-1925 72-1973 61-1949	78.0 52.0 .17 3 3 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	94-1979 50-1987 30-1906 69-1962 2.20-1973	76.0 54.0 .18 3 4 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	94-1978 49-1986 32-1921 71-1962 3.37-1959	77.0 54.0 .09 3 3 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	92-1963 54-1986 32-1917 71-1956 1.30-1981	77.0 53.0 .19 3 3 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	92-1963 59-1974 34-1937 69-1968 1.85-1984	
75.0 52.0 .10 4 3 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	91-1963 60-1970 38-1966 69-1968 1.36-1967	74.0 50.0 .06 5 2 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	93-1917 58-1976 32-1966 69-1965 68-1984	75.0 49.0 .04 5 2 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	90-1947 52-1966 30-1976 66-1988 97-1983	74.0 49.0 .14 5 2 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	91-1932 51-1989 29-1948 65-1979 1.94-1960	73.0 48.0 .08 6 2 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	89-1940 50-1976 27-1917 73-1979 1.73-1983	74.0 49.0 .30 5 2 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	91-1979 53-1972 30-1976 76-1979 4.96-1971	74.0 49.0 .13 5 2 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	92-1978 53-1984 30-1917 66-1963 2.99-1972	
73.0 50.0 .16 5 1 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	88-1963 57-1984 31-1911 63-1953 1.20-1953	70.0 49.0 .09 6 1 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	92-1939 50-1981 26-1937 70-1991 1.24-1970	69.0 46.0 .05 8 1 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	88-1921 50-1972 24-1917 65-1963 63-1984	69.0 46.0 .11 8 1 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	91-1939 48-1957 31-1925 65-1963 1.43-1954	71.0 46.0 .06 7 1 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	90-1950 46-1957 27-1957 60-1991 1.61-1991	70.0 46.0 .11 8 1 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	88-1922 51-1970 27-1957 64-1984 1.35-1973	69.0 45.0 .12 8 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	86-1922 43-1980 23-1925 62-1991 2.45-1974	
69.0 46.0 .14 8 1 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	90-1950 46-1976 23-1913 66-1961 1.28-1967	70.0 48.0 .19 7 1 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	90-1937 43-1991 15-1917 64-1977 1.73-1974	69.0 49.0 .16 7 1 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	87-1950 41-1991 21-1925 68-1962 3.12-1981	Normal 29	Actual	Normal 30	Actual	Normal 31	Actual	OCTOBER AVERAGES		
												TEMPERATURE	:	62.6°F
												PRECIPITATION	:	3.59"
												HEATING DEGREE DAYS	:	146
												COOLING DEGREE DAYS	:	78