

OKLAHOMA MONTHLY SUMMARY JUNE 1992

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JUNE 1992 MONTHLY SUMMARY

Heavy rains and damaging thunderstorms repeatedly hit Oklahoma during June, making the month the sixth wettest since 1892. Over an inch of rain was reported somewhere in the state on 25 days during the month, with over two inches falling on 15 days. The statewide-average was 7.27 inches, which is 3.32 inches above normal. Every region of the state recorded above-normal precipitation. Only Hooker, Miami and Spavinaw reported below-normal precipitation, among 129 stations which have 30-year normals. Seminole, Wewoka and Muskogee led all reporting stations with over twelve inches of rain for the month.

Grey skies kept temperatures cool. The highest reading of the month was 103 degrees at Clinton on the 18th, and maximum temperatures climbed above 100 degrees at only 15 reporting stations over six days. Minimum temperatures fell as low as 37 degrees at Stillwater on the 2nd. The statewide-average temperature of 73.6 degrees, which is 3.4 degrees below normal, tied for the fifth coolest on record.

A cold front, stalled south of the Red River, kept much of Oklahoma cool during the early part of the month. Record low temperatures were reported during the first two days of the month. The stalled front also provided a focus for rainshower development. Precipitation totals in excess of three inches were reported at Oneta on the 3rd, and Boynton and Tahlequah on the 6th. A two-day total of 6.03 inches was reported at Muskogee on the 5th-6th.

Thunderstorms developed across western portions of the state in advance of a cold front on the 5th. Baseball-size hail was reported in Stephens County and strong winds caused damage across Carter and Grady counties. Although the front cleared the state quickly, a pocket of cold air remained aloft, making the air unstable enough to allow for daily development of thunderstorms. No part of the state was spared from the inundation, which lasted until mid-month. Daily rainfall totals in excess of two inches were common from all parts of the state through the 15th. The heavy rains stopped the wheat harvest in many parts of the state, and caused flooding of major creeks and rivers.

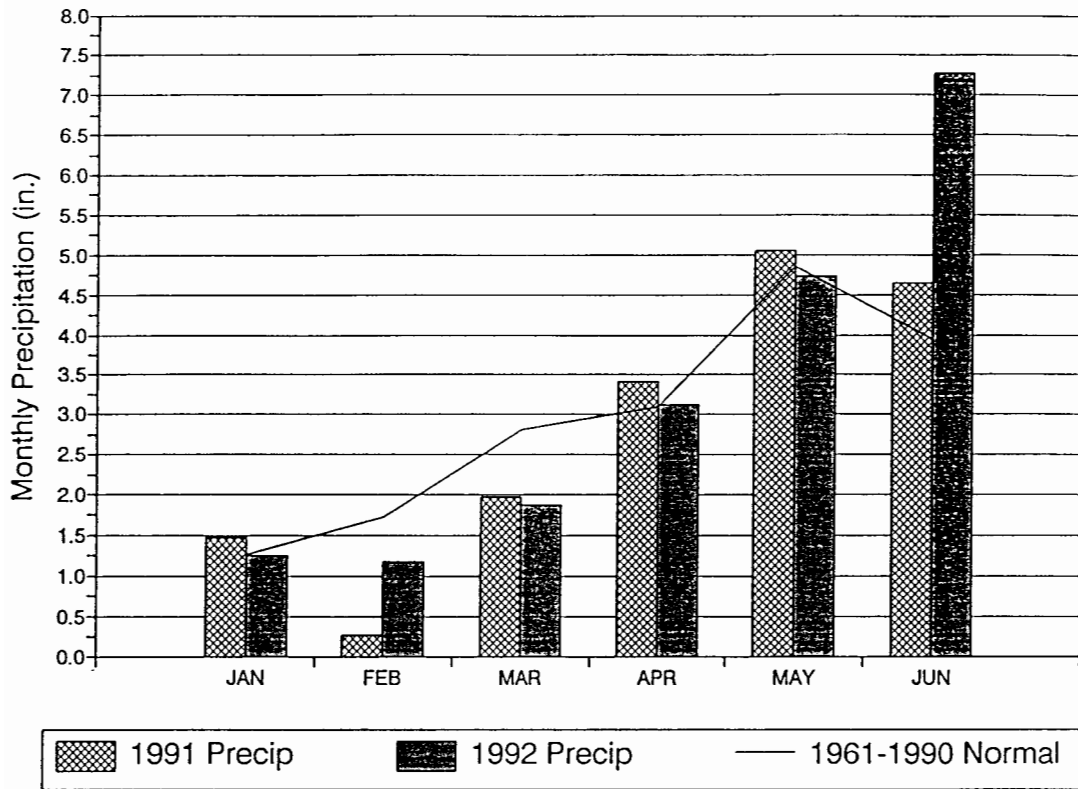
Skies finally cleared on the 15th, allowing maximum temperatures to rise above the 100-degree mark on the 17th and 18th. A new storm system began affecting Oklahoma's weather on the 18th, as thunderstorms developed across northwest Oklahoma. Two tornadoes were produced in Major and Kingfisher counties by the storms as they sped southeastward. A third tornado was produced near Maramec in Pawnee County. None of the tornadoes produced much damage. Although tornadic activity ceased before the storms arrived in the Oklahoma City Metro Area, large hail and winds gusting over 70 mph produced substantial damage.

A more substantial and widespread storm complex developed during the morning of the 19th in south central Kansas, moving southeastward across much of northeast Oklahoma during the afternoon. Wind gusts of 70-80 mph were reported as the storms swept across an eleven-county area at speeds of over 50 mph. The most damaging winds hit Tulsa, Creek and Pawnee counties, where wind speeds as high as 100 mph were reported. Throughout the area, trees were uprooted, fences and powerlines were blown down and roofs were damaged. Heavy rains, including 4.12 inches at Beggs and 3.50 inches at Claremore, filled rivers to their banks.

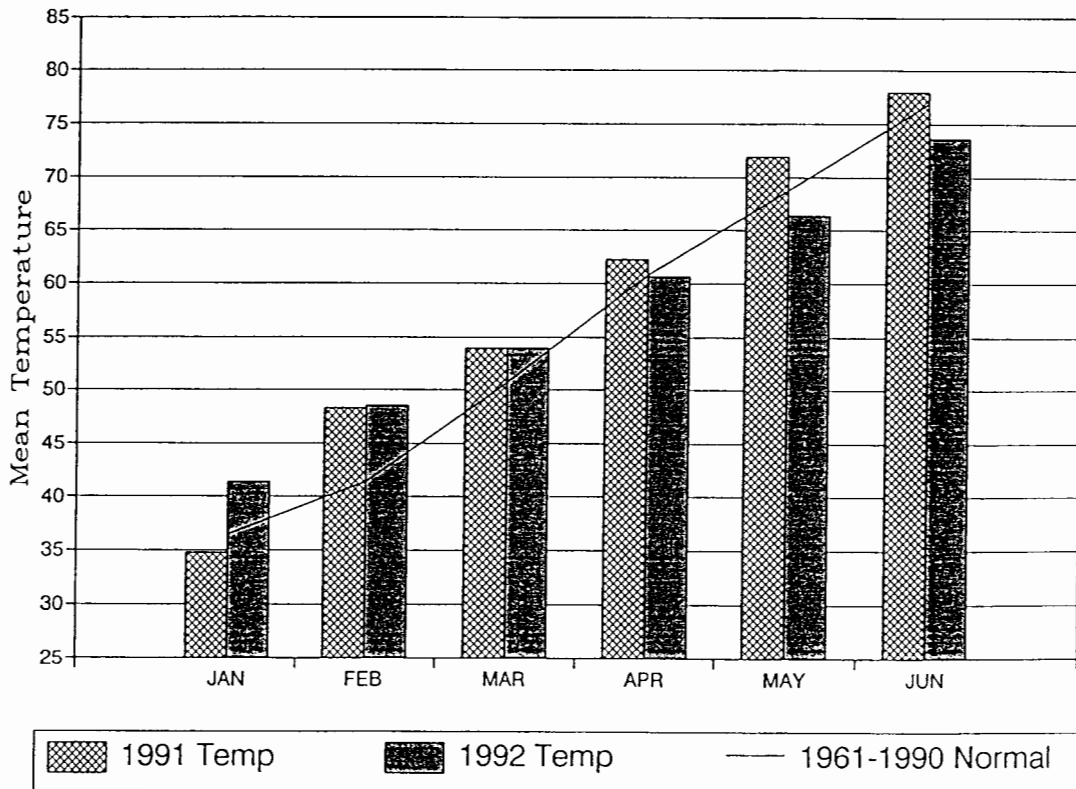
Thunderstorms continued to plague Oklahoma for the remainder of the month. Strong winds, large hail and heavy rains were an almost daily occurrence across all parts of the state. Already saturated from previous storms, the ground was not able to absorb the rains, resulting in flash flooding. Carter, Bryan and Creek counties were especially hard-hit on the 28th. At the end of the month the cool, wet weather showed no signs of letting up.

Mark A. Shafer

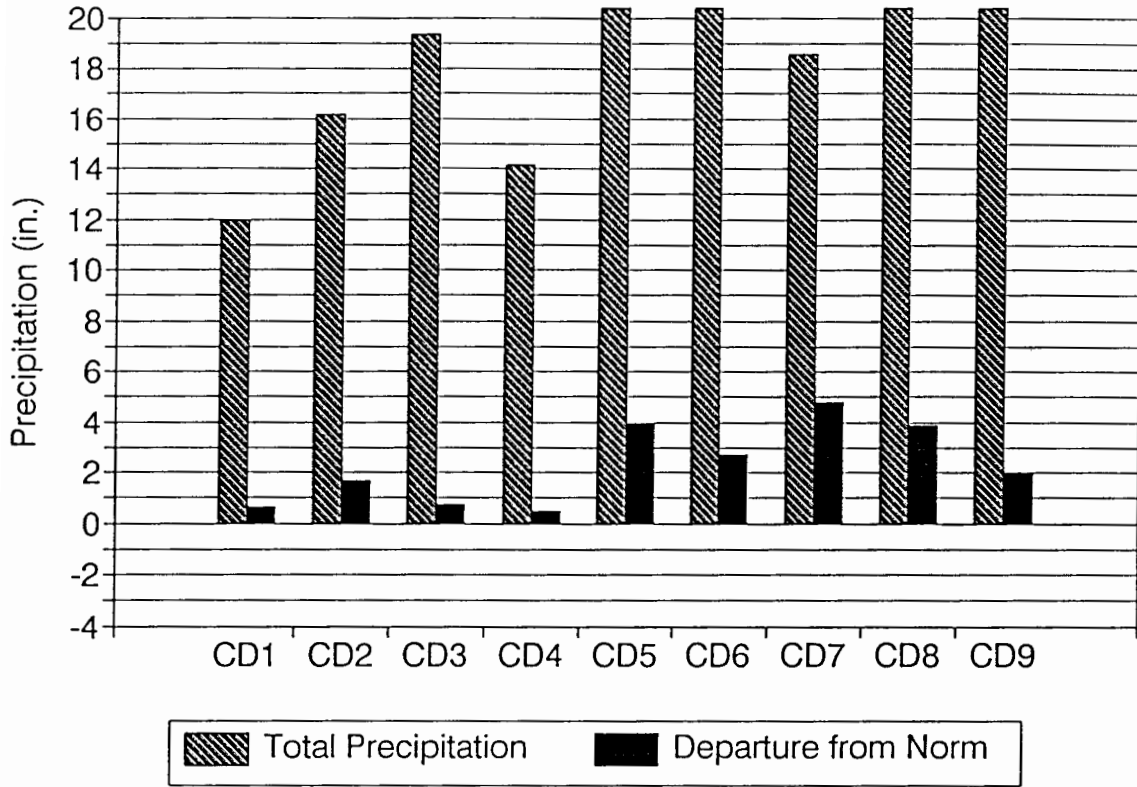
1991 and 1992 STATEWIDE PRECIPITATION January Through June Monthly Totals



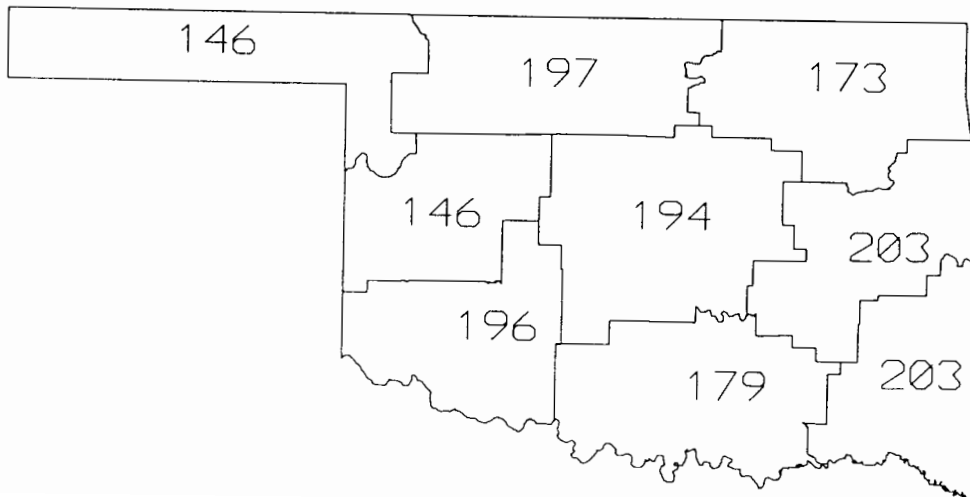
1991 and 1992 STATEWIDE TEMPERATURES January Through Jun Monthly Averages



CD Averaged Precipitation January Through June 1992



JUNE 1992 CLIMATE DIVISION PERCENT OF NORMAL PRECIPITATION



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

CD	MAX			MIN			24-HOUR			MONTHLY	
	TEMP	DATE	LOCATION	TEMP	DATE	LOCATION	PRECIP	DATE	LOCATION	PRECIP	LOCATION
1	98	25	HOOKER	48	2	HOOKER	2.90	28	BUFFALO	9.69	GUYMON
2	101	24	ALVA	50	4	MUTUAL	3.37	15	BRAMAN	10.64	RED ROCK
	101	24	CHEROKEE	50	4	WAYNOKA					
3	96	19	JAY TOWER	46	1	HULAH DAM	3.50	20	CLAREMORE	11.12	BARNSDALL
4	103	18	CLINTON	46	1	CANTON DAM	2.52	10	OKEENE	10.07	OKEENE
							2.52	10	TALOGA		
5	99	24	HENNESSEY	37	2	STILLWATER	3.13	29	BRISTOW	12.48	WEWOKA
	99	24	NORMAN								
6	95	25	LAKE EUFAULA	48	2	MUSKOGEE	4.12	20	BEGGS	12.87	MUSKOGEE
	95	17	MCALESTER								
	95	18	MCCURTAIN								
	95	18	TAHLEQUAH								
7	101	27	ALTUS DAM	37	9	CARNEGIE	2.50	2	ROOSEVELT	9.37	ROOSEVELT
	101	24	HOLLIS								
8	98	24	WAURIKA	53	3	CHICKASAW NRA	10.00	29	LINDSAY	13.20	LINDSAY
				53	4	CHICKASAW NRA					
				53	3	MARLOW					
9	94	24	ANTLERS	55	5	WILBURTON	3.09	11	VALLIANT	11.10	VALLIANT
	94	24	BOSWELL								
	94	18	POTEAU								

TABLE OF 1991/1992 COMPARISON

Station	June Temperature (F)		June Precipitation (in.)	
	1991	1992	1991	1992
Arnett	75.1	69.2	2.47	6.00
Enid	78.7	73.0	4.35	9.39
Mutual	76.9	71.7	2.86	4.31
Tulsa	80.5	75.1	3.62	8.66
Elk City	77.6	73.3	4.60	4.61
Oklahoma City	78.5	74.1	3.85	6.35
McAlester	78.4	75.3	4.04	7.21
Altus Irr Sta	79.5	76.2	11.04	6.07
Durant	78.2	75.3	12.52	10.12
Ada	77.0	73.7	5.42	7.54
Antlers	78.0	75.0	8.47	8.82

EXTREMES

Variable	Station	Division	Observation	Date
Minimum temperature (F)	Kenton	1	44	3
Maximum temperature (F)	Alva	2	101	24
	Cherokee	2	101	24
	Hollis	7	101	24
	Beggs	6	4.12"	20
Maximum 24-hour precipitation	Beggs	6	4.12"	20

JUNE 1992 SUMMARY FOR NORTHWEST DIVISION (CD1)

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										
ARNETT	332	1	69.2	28	*****	92.	25	51.	2	26.0	*****	144.5	*****	6.002	30	2.30	1.09	6
BEAVER	593	1	69.7	30	-5.2	97.	25	48.	3	24.5	16.5	164.5	-140.5	5.352	30	1.86	1.24	28
BOISE CITY 2 E	908	1	68.7	30	-4.4	97.	30	46.	2	34.0	26.0	144.5	-106.5	3.640	23	*****	1.33	5
BUFFALO	1243	1	72.9	30	-4.6	97.	19	51.	2	6.5	6.5	243.0	-132.0	4.180	30	.19	2.90	28
FARGO	3070	1	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	4.173	30	.86	.77	28
GAGE FAA APT	3407	1	70.8	30	-5.5	97.	24	49.	4	11.5	11.5	184.5	-154.5	3.403	30	.49	.58	2
GATE	3489	1	70.9	30	-5.4	98.	17	51.	2	13.5	8.5	191.0	-153.0	5.243	30	2.33	1.11	21
GOODWELL RES ST	3628	1	69.7	30	-3.4	97.	25	49.	17	12.0	4.0	153.0	-98.0	6.483	30	3.80	1.96	8
GUYMON	3835	1	70.5	30	****	97.	30	49.	2	15.0	*****	180.0	*****	9.690	30	*****	1.92	5
HOOKER	4298	1	69.7	30	-5.1	98.	25	48.	2	18.0	12.0	158.5	-141.5	2.420	30	-.52	.94	8
KENTON	4766	1	68.5	30	-3.4	95.	25	44.	3	28.0	16.0	133.5	-85.5	3.840	29	*****	1.62	26
LAVERNE	5045	1	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	4.033	30	.96	1.12	21
OPTIMA LAKE	6740	1	70.1	30	****	99.	25	49.	2	12.0	*****	164.5	*****	3.946	29	*****	.94	8
REGNIER	7534	1	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	6.820	30	4.58	1.94	6
TURPIN 4 SSE	9017	1	69.8	30	****	97.	17	49.	2	20.0	*****	162.5	*****	5.462	29	*****	1.34	21

JUNE 1992 SUMMARY FOR NORTH CENTRAL DIVISION (CD2)

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										
ALVA	193	2	73.5	30	*****	101.	24	53.	4	5.5	*****	261.0	*****	9.290	30	*****	2.97	6
VANCE AFB	302	2	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	7.352	30	*****	1.56	28
BILLINGS	755	2	72.5	30	-4.6	95.	25	52.	3	8.0	8.0	232.0	-131.0	9.264	30	5.11	1.77	15
BLACKWELL 2E	818	2	73.0	30	-4.2	97.	24	52.	3	6.5	6.5	245.5	-120.5	8.161	30	4.25	2.85	15
BRAMAN	1075	2	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	7.543	30	*****	3.37	15
CEDARDALE	1620	2	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	5.491	30	*****	1.17	28
CHEROKEE	1724	2	73.8	29	-4.9	101.	24	52.	4	9.0	9.0	264.5	-146.5	8.950	30	5.13	2.71	25
ENID	2912	2	73.3	28	*****	97.	25	53.	3	7.0	*****	240.0	*****	9.390	30	5.25	2.02	25
FT SUPPLY DAM	3304	2	69.6	30	-5.7	93.	25	51.	4	18.0	12.0	157.0	-158.0	6.114	30	3.12	1.50	28
GREAT SALT PLNS	3740	2	72.1	30	-5.2	100.	25	53.	30	11.0	11.0	223.0	-146.0	8.343	30	4.84	1.70	25
HARDY	3909	2	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	6.481	30	*****	1.80	14
HELENA 1 SSE	4019	2	72.1	30	-4.2	99.	25	51.	4	8.0	8.0	221.0	-118.0	6.515	30	2.69	1.38	28
JEFFERSON	4573	2	74.0	30	-4.4	97.	24	53.	3	5.0	5.0	275.0	-127.0	8.582	30	4.54	2.23	5
LAMONT	5013	2	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	6.390	30	*****	1.29	20
MEDFORD	5768	2	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	7.231	30	*****	1.47	14
MORRISON	6065	2	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	8.200	30	*****	1.83	15
MUTUAL	6139	2	71.1	30	-4.8	99.	25	50.	4	17.0	17.0	199.0	-132.0	4.310	30	1.00	1.26	28
NEWKIRK	6278	2	71.3	30	-5.7	94.	24	52.	3	12.5	12.5	203.0	-157.0	8.794	30	4.34	3.10	15
ORIENTA	6751	2	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	5.770	30	2.06	1.42	6
PERRY	7012	2	73.8	30	-3.9	96.	18	54.	3	3.5	3.5	267.0	-114.0	8.232	30	4.34	1.41	15
PONCA CITY FAA	7201	2	73.8	30	-3.2	97.	24	53.	3	3.0	3.0	268.0	-92.0	7.131	30	3.21	2.74	15
RED ROCK 1 NNE	7505	2	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	10.640	30	6.55	2.90	20
WAYNOKA	9404	2	72.2	30	-5.6	100.	24	50.	4	3.0	3.0	218.5	-165.5	5.470	30	1.98	1.18	6
WOODWARD	9760	2	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	5.201	30	2.02	1.30	28

JUNE 1992 SUMMARY FOR NORTHEAST DIVISION (CD3)

NAME	ID	CD	DEV					HEAT		DEV		COOL		DEV		DEV		
			MEAN TEMP	NUM OBS	FROM NORM	MAX TEMP	MIN DAY	DEG DAY	FROM NORM	DEG DAY	FROM NORM	DEG DAY	TOT PPT	NUM OBS	FROM NORM	MAX 24-HR	DAY	
BARNSDALL	535	3	72.2	30	-4.6	92.	24	53.	3	6.5	6.5	223.0	-131.0	11.123	30	6.38	2.22	20
BARTLESVILLE 2W	548	3	73.3	30	-3.6	95.	24	54.	7	4.0	4.0	251.5	-102.5	6.521	30	2.47	1.10	15
BIXBY	782	3	73.2	30	-2.7	94.	27	55.	3	3.5	3.5	248.5	-78.5	6.411	30	1.79	1.51	20
BURBANK	1256	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	9.712	30	5.41	2.47	14
CHELSEA 4 S	1717	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.660	30	*****	1.25	15
CLAREMORE	1828	3	72.5	30	-3.1	93.	25	55.	7	2.5	2.5	227.0	-91.0	10.210	30	5.61	3.50	20
CLEVELAND 5 WSW	1902	3	73.3	30	*****	94.	26	54.	3	3.5	*****	253.0	*****	7.720	30	*****	1.75	15
FORAKER	3250	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.031	30	2.13	1.57	20
HOLLOW	4258	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.161	30	.49	1.95	3
HOMINY	4289	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	8.762	30	4.87	2.04	20
HULAH DAM	4393	3	71.5	22	*****	93.	25	46.	1	13.0	*****	156.5	*****	6.440	26	*****	1.98	3
JAY TOWER	4567	3	73.9	30	*****	96.	19	56.	22	6.0	*****	274.5	*****	5.380	30	*****	1.92	3
KANSAS 1 ESE	4672	3	71.6	27	*****	90.	18	52.	1	5.0	*****	182.5	*****	7.221	30	2.23	2.50	6
KEYSTONE DAM	4812	3	71.3	30	-4.3	92.	25	52.	3	10.5	10.5	200.0	-118.0	9.110	30	5.01	1.91	15
LENAPAH	5118	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.390	30	*****	2.00	6
MANNFORD 6 NW	5522	3	72.4	30	-4.2	93.	18	53.	4	5.5	5.5	226.5	-121.5	8.931	30	5.05	1.93	15
MARAMEC	5540	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	10.390	30	6.59	2.43	15
MIAMI	5855	3	71.3	30	-3.6	91.	19	53.	22	10.5	10.5	198.5	-98.5	4.532	30	-.09	1.22	3
NOWATA	6485	3	71.8	30	-4.6	92.	24	55.	7	2.0	2.0	207.0	-135.0	7.972	30	3.41	1.80	23
ONETA 1 WNW	6713	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	10.400	30	*****	3.09	3
PAWHUSKA	6935	3	72.4	30	-3.8	92.	24	53.	7	6.5	6.5	227.5	-108.5	8.450	30	3.91	2.24	20
PAWNEE	6940	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	8.201	30	4.36	2.25	15
PRYOR 6 N	7309	3	71.9	30	-3.4	91.	26	54.	22	2.0	2.0	209.5	-99.5	5.106	30	.12	2.15	2
RALSTON	7390	3	72.9	30	-4.0	95.	24	53.	5	5.0	5.0	241.5	-115.5	9.122	30	4.97	1.90	15
RAMONA 4 N	7394	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.601	30	*****	1.56	20
SKIATOOK	8258	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	8.720	30	4.52	1.64	15
SPAVINAW	8380	3	74.2	30	-2.4	91.	25	57.	22	.0	.0	275.5	-72.5	4.204	30	-.70	1.42	3
TULSA WSO APT	8992	3	75.1	30	-2.6	94.	24	56.	3	.5	.5	304.5	-76.5	8.661	30	4.22	1.96	30
UPPER SPAVINAW	9101	3	71.4	23	*****	94.	17	52.	22	4.0	*****	150.5	*****	6.852	30	*****	2.53	3
VINITA 2 N	9203	3	72.0	19	*****	90.	18	53.	7	3.0	*****	136.0	*****	5.870	22	*****	2.51	3
WAGONER	9247	3	74.1	30	-2.6	94.	26	57.	22	.0	.0	272.0	-79.0	8.593	30	3.17	2.31	15
WANN	9298	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.011	30	*****	1.25	3
WYNONA	9792	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	10.212	30	*****	2.00	15

JUNE 1992 SUMMARY FOR WEST CENTRAL DIVISION (CD4)

NAME	ID	CD	DEV					HEAT		DEV		COOL		DEV		DEV		
			MEAN TEMP	NUM OBS	FROM NORM	MAX TEMP	MIN DAY	DEG DAY	FROM NORM	DEG DAY	FROM NORM	DEG DAY	TOT PPT	NUM OBS	FROM NORM	MAX 24-HR	DAY	
CANTON DAM	1445	4	71.2	30	-5.2	98.	25	53.	4	13.0	13.0	198.0	-144.0	7.011	30	3.19	2.10	10
CHEYENNE	1738	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.930	30	-.66	.72	3
CLINTON	1909	4	76.1	30	-2.2	100.	24	53.	4	1.5	1.5	334.5	-64.5	4.501	30	.35	1.86	28
COLONY	2039	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.680	30	*****	2.30	28
CORDELL	2125	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.442	30	2.59	1.75	28
ELK CITY 1 E	2849	4	73.3	29	-3.7	95.	24	52.	4	1.5	1.5	241.0	-119.0	4.610	30	.74	.87	6
ERICK 4 E	2944	4	73.0	30	-3.7	97.	24	52.	4	1.5	1.5	242.0	-109.0	4.721	30	1.02	.68	20
GEARY	3497	4	73.3	30	-3.6	96.	24	55.	3	1.5	1.5	249.0	-105.0	5.600	30	1.35	1.82	28
HAMMON 1 NNE	3871	4	71.3	27	*****	96.	25	48.	4	12.5	*****	183.5	*****	3.773	29	*****	1.61	28
LEEDEY	5090	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.700	30	.18	1.32	28
MACKIE 4 NNW	5463	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.530	30	*****	.96	28
MORAVIA 2 NNE	6035	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.340	30	2.54	1.57	20
OKEENE	6629	4	73.6	30	-4.7	99.	24	54.	4	3.0	3.0	260.0	-139.0	10.070	30	5.92	2.52	10
RETROP	7565	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.470	30	*****	1.35	28
REYDON	7579	4	72.7	30	-2.7	96.	14	51.	5	3.0	3.0	234.0	-82.0	3.890	30	.37	1.12	28
SAYRE	7952	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.870	30	1.21	1.05	1
SWEETWATER 2 E	8652	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.480	29	*****	.80	20
TALOGA	8708	4	72.8	30	-4.0	99.	24	51.	4	6.5	6.5	239.5	-114.5	6.753	30	3.04	2.52	10
THOMAS	8815	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.930	30	*****	1.72	28
VICI	9172	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.322	30	1.78	1.75	28
WATONGA	9364	4	73.7	30	-3.5	98.	24	54.	4	1.0	1.0	261.0	-105.0	6.594	30	2.54	1.48	28
WEATHERFORD	9422	4	73.5	30	-3.6	98.	25	53.	14	4.0	4.0	260.0	-103.0	4.682	30	.67	1.75	28

JUNE 1992 SUMMARY FOR CENTRAL DIVISION (CD5)

NAME	ID	CD	DEV					HEAT		DEV		COOL		DEV		TOT PPT	NUM OBS	DEV		24-HR DAY
			MEAN TEMP	NUM OBS	FROM NORM	MAX TEMP	MIN DAY	DEG DAY	FROM NORM	DEG DAY	FROM NORM	DEG DAY	FROM NORM	FROM NORM	MAX					
AMBER	200	5	****	0	****	****	0	****	0	****	****	****	****	4.930	30	****	1.39	28		
TINKER AFB	325	5	****	0	****	****	0	****	0	****	****	****	****	7.463	30	****	2.15	25		
BLANCHARD 2 SSW	830	5	74.4	30	-2.7	94.	24	54.	3	2.5	2.5	283.5	-79.5	4.492	30	.48	.80	28		
BRISTOW	1144	5	73.0	30	-3.9	94.	18	54.	3	3.5	3.5	244.0	-113.0	9.553	30	5.68	3.13	29		
CHANDLER	1684	5	74.3	29	-2.7	94.	24	55.	1	5.0	5.0	275.0	-85.0	9.370	30	5.34	3.00	20		
CHICKASHA EX	ST1750	5	74.6	30	-3.8	96.	24	54.	3	2.0	2.0	289.0	-113.0	6.720	30	3.01	1.62	28		
COX CITY 1 E	2196	5	****	0	****	****	0	****	0	****	****	****	****	5.290	30	****	1.46	6		
CRESCENT	2242	5	****	0	****	****	0	****	0	****	****	****	****	11.380	30	****	2.40	19		
CUSHING	2318	5	71.8	28	****	93.	25	57.	7	8.0	****	198.0	****	7.090	30	2.82	2.00	20		
EL RENO 1 N	2818	5	74.0	30	-3.0	97.	24	54.	3	2.5	2.5	272.5	-87.5	7.760	30	3.37	1.82	28		
GUTHRIE	3821	5	74.9	30	-3.0	97.	17	56.	3	2.5	2.5	300.0	-87.0	8.481	30	4.25	1.23	25		
HENNESSEY 2 SE	4055	5	73.4	30	-4.4	99.	24	53.	3	3.5	3.5	256.0	-128.0	6.570	30	2.39	1.20	25		
INGALLS	4489	5	****	0	****	****	0	****	0	****	****	****	****	7.425	30	****	1.66	20		
KINGFISHER 2 SE	4861	5	73.8	30	-4.3	98.	24	54.	4	3.0	3.0	268.5	-124.5	9.810	30	5.54	1.33	24		
KONAWA	4915	5	****	0	****	****	0	****	0	****	****	****	****	9.271	30	5.19	1.78	2		
MARSHALL	5589	5	****	0	****	****	0	****	0	****	****	****	****	8.050	30	4.07	1.25	6		
MEEKER 4 W	5779	5	72.6	29	-4.1	91.	24	56.	22	3.0	3.0	222.5	-128.5	7.760	30	3.58	1.72	19		
NORMAN 3 S	6386	5	74.3	30	-2.8	99.	24	55.	22	2.0	2.0	282.5	-83.5	5.830	30	1.74	.95	28		
OILTON 2 SE	6616	5	****	0	****	****	0	****	0	****	****	****	****	8.711	23	****	2.30	14		
OKEMAH	6638	5	74.6	30	-2.1	95.	18	58.	22	2.5	2.5	290.0	-61.0	10.731	30	6.54	2.60	20		
OKLAHOMA CTY	WS6661	5	74.1	30	-2.6	95.	24	54.	3	2.0	2.0	273.5	-77.5	6.353	30	2.04	1.63	28		
PERKINS	7003	5	****	0	****	****	0	****	0	****	****	****	****	6.840	30	2.41	1.44	20		
PIEDMONT	7068	5	****	0	****	****	0	****	0	****	****	****	****	7.840	30	****	2.00	25		
PRAGUE	7264	5	****	0	****	****	0	****	0	****	****	****	****	9.552	30	5.75	1.75	11		
PURCELL 5 SW	7327	5	74.1	30	-3.6	94.	24	54.	3	2.5	2.5	274.0	-107.0	5.232	30	1.00	1.35	28		
SEMINOLE	8042	5	74.9	30	-3.4	95.	19	57.	22	1.0	1.0	298.5	-100.5	12.110	30	7.90	2.50	20		
SHAWNEE	8110	5	****	0	****	****	0	****	0	****	****	****	****	8.300	30	3.98	1.80	25		
STELLA	8479	5	****	0	****	****	0	****	0	****	****	****	****	7.040	30	****	1.36	25		
STILLWATER 2 W	8501	5	72.6	30	-3.6	93.	25	48.	4	10.0	10.0	236.5	-99.5	8.011	30	4.01	1.44	6		
STROUD 1 N	8563	5	****	0	****	****	0	****	0	****	****	****	****	7.114	30	****	2.02	20		
TECUMSEH	8751	5	****	0	****	****	0	****	0	****	****	****	****	7.921	30	****	1.90	25		
TROUSDALE	8960	5	****	0	****	****	0	****	0	****	****	****	****	5.550	30	****	1.56	25		
UNION CITY 1 SE	9086	5	****	0	****	****	0	****	0	****	****	****	****	5.600	30	.91	1.28	28		
WELTY 1 SSE	9479	5	****	0	****	****	0	****	0	****	****	****	****	11.634	30	****	3.00	20		
WEWOKA	9575	5	****	0	****	****	0	****	0	****	****	****	****	12.481	30	8.42	2.70	25		

JUNE 1992 SUMMARY FOR EAST CENTRAL DIVISION (CD6)

NAME	ID	CD	DEV					HEAT		DEV		COOL		DEV		TOT PPT	NUM OBS	DEV		24-HR DAY
			MEAN TEMP	NUM OBS	FROM NORM	MAX TEMP	MIN DAY	DEG DAY	FROM NORM	DEG DAY	FROM NORM	DEG DAY	FROM NORM	FROM NORM	MAX					
ASHLAND	364	6	****	0	****	****	0	****	0	****	****	****	****	11.020	30	****	2.57	25		
BEGGS	631	6	****	0	****	****	0	****	0	****	****	****	****	9.730	30	****	4.12	20		
BOYNTON	1027	6	****	0	****	****	0	****	0	****	****	****	****	6.840	21	****	3.15	6		
CALVIN	1391	6	****	0	****	****	0	****	0	****	****	****	****	9.384	30	4.85	3.00	25		
CHECOTAH	1711	6	****	0	****	****	0	****	0	****	****	****	****	7.232	30	3.34	1.50	20		
CLAYTON 15 WNW	1858	6	****	0	****	****	0	****	0	****	****	****	****	10.380	30	****	1.49	29		
DEWAR 2 NE	2485	6	****	0	****	****	0	****	0	****	****	****	****	5.610	30	1.66	1.88	6		
DUSTIN	2690	6	****	0	****	****	0	****	0	****	****	****	****	6.230	30	****	1.57	20		
EUFULA	2993	6	75.5	28	****	92.	24	57.	3	.0	****	293.5	****	7.370	30	3.34	1.58	5		
HANNA	3884	6	73.8	30	-3.3	93.	18	55.	3	1.5	1.5	267.0	-99.0	8.373	30	4.66	1.62	6		
HARTSHORNE	3946	6	****	0	****	****	0	****	0	****	****	****	****	9.110	30	****	1.55	29		
HASKELL	3956	6	****	0	****	****	0	****	0	****	****	****	****	8.530	30	3.83	1.77	15		
HOLDENVILLE	4235	6	74.2	30	-2.6	93.	19	55.	3	2.0	2.0	277.5	-76.5	10.700	30	7.01	2.34	2		
LAKE EUFAULA	4975	6	74.6	29	****	95.	25	58.	3	2.5	****	281.0	****	6.514	30	****	1.41	6		
LYONS 2 N	5437	6	****	0	****	****	0	****	0	****	****	****	****	7.492	30	3.03	1.95	6		
MARBLE CITY	5546	6	****	0	****	****	0	****	0	****	****	****	****	5.877	30	****	1.67	6		
MCALESTER FAA	5664	6	75.3	30	-1.9	95.	17	55.	3	.0	.0	308.0	-58.0	7.212	30	3.23	1.24	29		
MCCURTAIN 1 SE	5693	6	75.7	30	-1.7	95.	18	57.	22	.0	.0	322.0	-50.0	6.543	30	2.37	1.53	3		
MUSKOGEE	6130	6	74.0	29	-3.0	91.	25	57.	22	.0	.0	261.5	-98.5	12.871	30	8.58	3.05	6		
OKMULGEE W W	6670	6	72.2	30	-3.9	93.	20	54.	4	5.0	5.0	222.0	-111.0	8.110	30	3.88	3.50	6		
OKTAH 2 NE	6678	6	****	0	****	****	0	****	0	****	****	****	****	6.800	30	****	1.89	6		
QUINTON	7372	6	****	0	****	****	0	****	0	****	****	****	****	8.502	30	4.27	1.47	2		
SALLISAW 2 NE	7862	6	74.3	30	-2.8	91.	24	57.	24	2.0	2.0	280.0	-83.0	8.773	30	5.21	2.90	15		
SCIPIO	7979	6	****	0	****	****	0	****	0	****	****	****	****	7.270	30	****	1.11	20		
SCRAPER	7993	6	****	0	****	****	0	****	0	****	****	****	****	9.140	30	****	2.29	6		
SHORT	8170	6	****	0	****	****	0	****	0	****	****	****	****	6.141	30	****	1.40	15		
STILWELL 1 NE	8506	6	72.4	30	-2.6	92.	18	54.	22	1.0	1.0	223.0	-77.0	8.692	30	4.47	1.99	15		
TAHLEQUAH	8677	6	73.0	30	-2.6	95.	18	56.	22	.5	.5	240.5	-77.5	10.871	30	6.34	3.35	6		
WEBBERS FALLS	9445	6	73.0	30	-3.7	93.	25	57.	22	2.0	2.0	242.0	-109.0	7.470	30	3.80	1.99	6		
WESTVILLE	9523	6	****	0	****	****	0	****	0	****	****	****	****	6.269	30	****	2.05	20		
WETUMKA 3 NE	9571	6	****	0	****	****	0	****	0	****	****	****	****	8.670	30	4.57	1.45	20		

JUNE 1992 SUMMARY FOR SOUTHWEST DIVISION (CD7)

NAME	ID	CD	DEV					HEAT		DEV		COOL		DEV		TOT	NUM	DEV	MAX	DAY
			MEAN	NUM	FROM	MAX	MIN	DEG	FROM	DEG	FROM	DEG	FROM	DEG	FROM					
ALTUS IRR STA	179	7	76.2	30	-3.7	100.	24	56.	4	.0	.0	335.5	-111.5	6.070	30	2.56	1.08	28		
ALTUS DAM	184	7	73.2	30	-5.8	97.	25	56.	3	8.5	8.5	253.0	-164.0	9.000	30	5.29	2.45	20		
ANADARKO	224	7	72.9	27	*****	93.	25	53.	8	2.0	*****	214.0	*****	3.461	29	*****	1.40	27		
APACHE	260	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.760	30	3.83	1.80	27		
ALTUS AFB	447	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.413	27	*****	1.65	28		
CARNEGIE 2 ENE	1504	7	74.3	19	*****	97.	19	52.	4	.0	*****	176.5	*****	8.960	30	4.96	1.66	9		
CHATTANOOGA	1706	7	76.6	30	-2.8	100.	25	56.	4	.0	.0	349.0	-83.0	7.520	30	4.13	2.42	8		
DUNCAN 12 W	2668	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.162	30	*****	1.54	5		
FREDERICK	3353	7	74.1	30	-5.1	100.	25	57.	3	5.5	5.5	277.0	-149.0	8.620	30	5.17	1.27	28		
GRANDFIELD 4 NW	3709	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.430	30	2.63	1.65	6		
HOBART FAA APT	4204	7	74.7	29	-3.9	100.	24	53.	4	.0	.0	282.0	-126.0	7.481	30	4.41	1.70	6		
HOLLIS	4249	7	76.2	29	-3.4	101.	24	55.	4	.0	.0	324.5	-113.5	7.411	29	*****	2.26	28		
LAWTON	5063	7	75.1	29	-3.2	99.	25	58.	4	2.0	2.0	295.5	-103.5	8.211	30	4.59	1.76	8		
LOOKEBA 2 ENE	5329	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.461	30	.30	1.49	28		
MANGUM RES STA	5509	7	74.9	30	-4.6	100.	24	53.	4	.5	.5	298.0	-137.0	6.430	30	2.66	1.51	28		
RANDLETT 9 E	7403	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	8.301	30	*****	2.02	20		
ROOSEVELT	7727	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	9.370	30	5.71	2.50	2		
SEDAN	8016	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.790	30	*****	1.26	20		
SNYDER	8299	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.271	26	*****	1.60	20		
VINSON 3 WNW	9212	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.601	30	4.14	1.67	20		
WALTERS	9278	7	76.1	30	-3.2	98.	24	56.	4	.0	.0	333.5	-95.5	5.890	30	1.75	1.24	8		
WICHITA MT WLR	9629	7	72.1	29	-4.6	93.	18	51.	1	8.0	8.0	215.0	-136.0	4.430	30	.61	1.00	20		
WILLOW	9668	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.222	26	*****	2.45	20		

JUNE 1992 SUMMARY FOR SOUTH CENTRAL DIVISION (CD8)

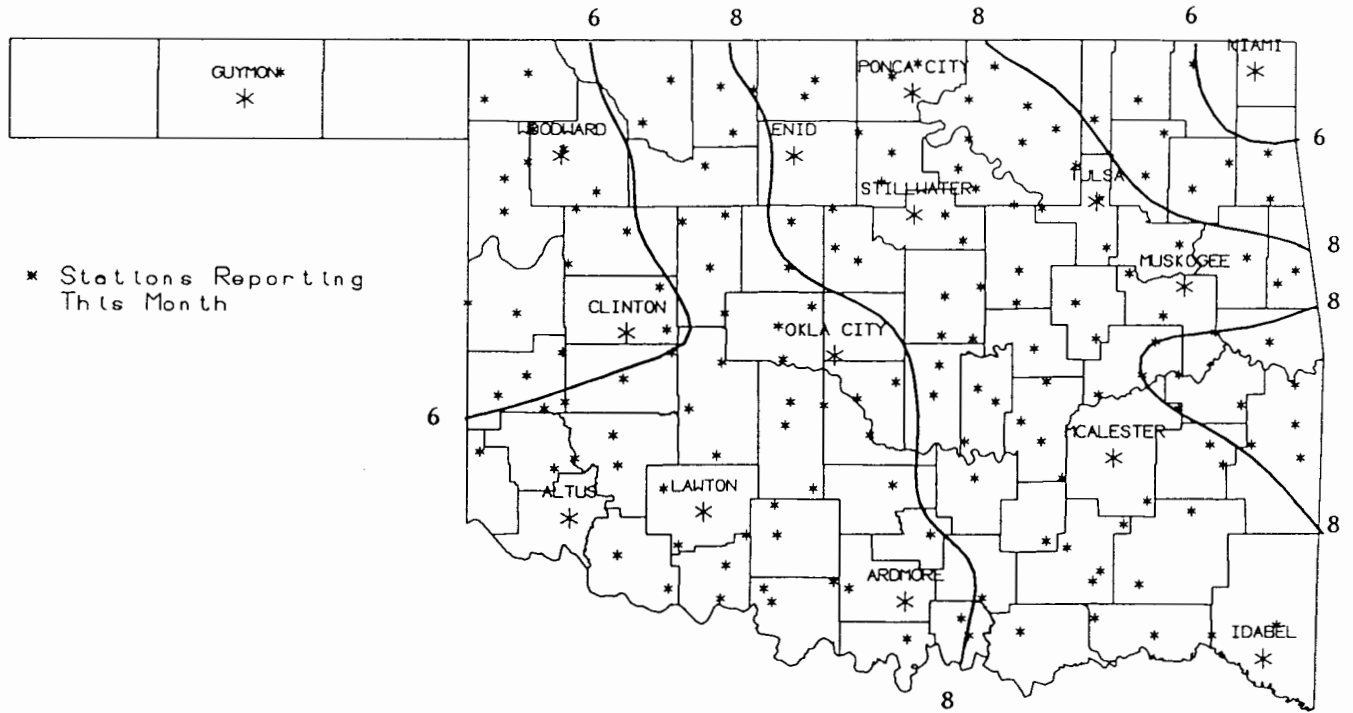
NAME	ID	CD	DEV					HEAT		DEV		COOL		DEV		TOT	NUM	DEV	MAX	DAY
			MEAN	NUM	FROM	MAX	MIN	DEG	FROM	DEG	FROM	DEG	FROM	DEG	FROM					
ADA	17	8	73.7	30	-3.2	92.	24	56.	4	2.5	2.5	262.5	-94.5	7.540	30	3.44	1.51	25		
ALLEN	147	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	8.300	30	*****	1.60	25		
ARDMORE	292	8	75.2	30	-4.1	93.	25	51.	1	4.0	4.0	310.5	-118.5	7.371	28	*****	1.73	25		
ATOKA DAM	394	8	75.0	21	*****	94.	25	58.	3	.0	*****	211.0	*****	6.071	30	1.85	1.60	29		
BOKCHITO	917	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.600	30	*****	2.02	29		
CANEY	1437	8	76.0	30	*****	94.	30	60.	4	.0	*****	330.5	*****	6.310	30	*****	1.12	6		
CENTRAHOMA	1648	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.950	30	*****	1.20	25		
CHICKASAW NRA	1745	8	73.5	30	-3.4	92.	25	53.	4	1.0	1.0	255.5	-101.5	8.660	30	4.70	2.25	25		
COLEMAN	2011	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.270	30	*****	1.32	29		
COMANCHE	2054	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.265	30	3.45	1.34	6		
DAISY 4 ENE	2354	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	9.711	30	5.45	2.50	28		
DUNCAN	2660	8	74.6	30	-3.3	95.	25	56.	4	.0	.0	287.0	-100.0	7.180	30	3.20	1.33	6		
DURANT USDA	2678	8	75.3	29	-2.2	93.	25	57.	3	.0	.0	298.5	-76.5	10.120	30	5.53	1.93	29		
ELMORE CITY	2872	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.290	29	*****	1.20	27		
FARRIS 3 WNW	3083	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	8.040	30	3.86	1.39	9		
GRADY	3688	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.350	30	*****	1.20	5		
HEALDTON	4001	8	74.4	30	-3.6	93.	24	56.	4	.0	.0	282.0	-108.0	6.290	30	2.12	1.26	6		
HENNEPIN	4052	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.470	30	*****	2.06	6		
KETCHUM RANCH	4780	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.690	30	*****	1.80	28		
KINGSTON	4865	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	8.620	30	4.54	1.52	29		
LEHIGH	5108	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.753	30	*****	2.60	29		
LINDSAY 2 W	5216	8	71.8	16	*****	93.	29	55.	29	1.0	*****	109.5	*****	3.203	15	*****	1.16	6		
LOCO 6 SE	5247	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.630	30	*****	1.38	9		
MADILL	5468	8	76.2	30	-2.2	97.	29	56.	3	.0	.0	336.0	-66.0	6.580	30	2.07	1.74	25		
MARIETTA	5563	8	76.4	30	-1.7	96.	24	57.	4	.0	.0	342.0	-51.0	6.850	30	2.85	1.28	29		
MARLOW 1 WSW	5581	8	75.8	29	-1.3	96.	25	53.	3	.5	.5	315.0	-48.0	7.420	30	3.24	1.72	8		
MCGEE CREEK DAM	5713	8	74.5	30	*****	95.	20	57.	4	.0	*****	284.5	*****	10.101	30	*****	1.56	25		
PAULS VALLEY	6928	8	74.9	30	-3.4	95.	24	54.	4	1.0	1.0	299.5	-99.5	9.833	30	5.93	3.20	25		
PONTOTOC	7214	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.831	29	*****	1.34	25		
TISHOMINGO NWLR	8884	8	74.7	23	*****	95.	19	55.	4	.5	*****	222.5	*****	7.690	30	3.09	2.05	25		
TUSSY	9032	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	8.790	30	*****	2.01	29		
WAURIKA	9395	8	76.6	30	-2.7	98.	24	57.	4	.0	.0	348.5	-80.5	4.532	30	.80	1.25	6		
WAURIKA DAM	9399	8	75.7	30	*****	96.	25	56.	3	.0	*****	322.0	*****	6.371	30	*****	1.30	8		

JUNE 1992 SUMMARY FOR SOUTHEAST DIVISION (CD9)

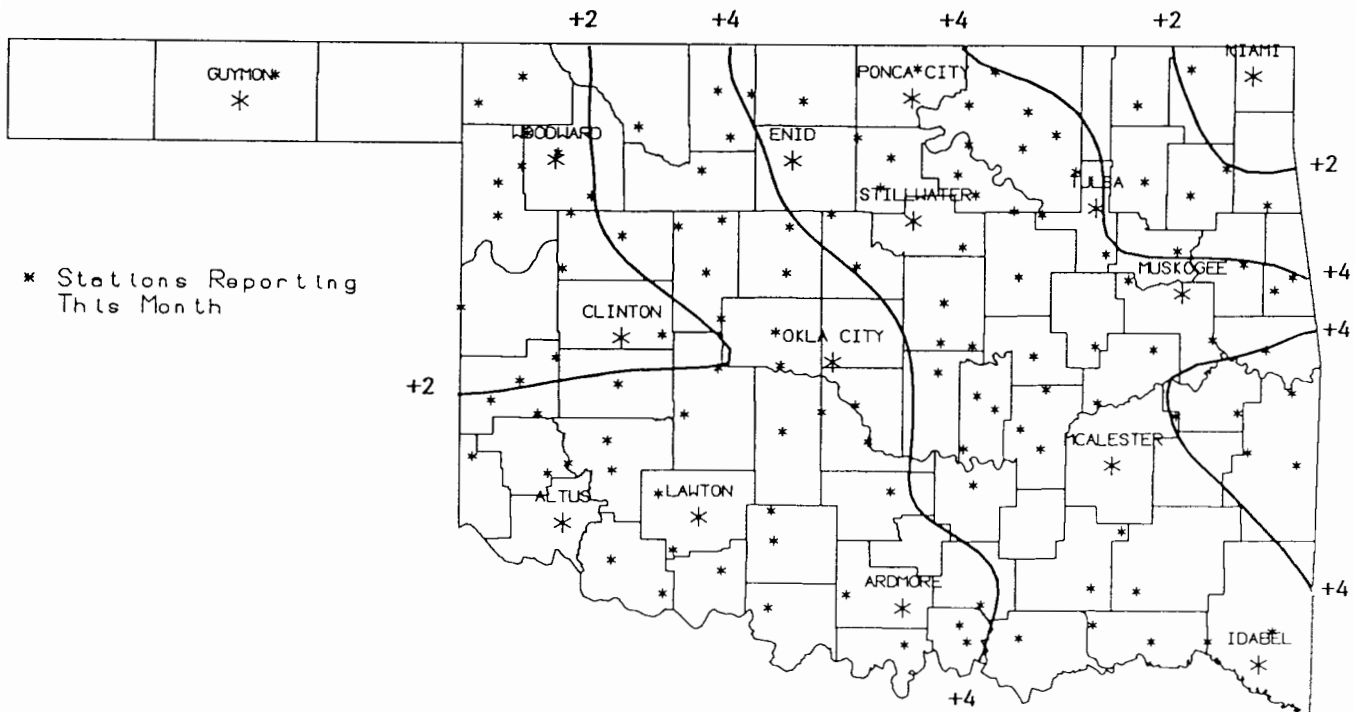
NAME	ID	CD	DEV					HEAT		DEV		COOL		DEV		TOT PPT	NUM OBS	FROM NORM	MAX 24-HR	DAY
			MEAN TEMP	NUM OBS	FROM NORM	MAX TEMP	MIN TEMP	DAY	DEG DAY	FROM NORM	DEG DAY	FROM NORM	DEG DAY	FROM NORM	MAX 24-HR					
ANTLERS	256	9	75.0	30	-2.2	94.	24	57.	4	.0	.0	301.0	-65.0	8.820	30	4.34	2.26	25		
BATTIEST 1 SSW	567	9	71.2	30	*****	88.	24	52.	4	4.0	*****	191.0	*****	7.110	29	*****	1.32	3		
BENGAL	670	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	9.950	30	*****	1.48	3		
BOSWELL 4 NNW	980	9	75.8	30	-1.6	94.	24	58.	3	.0	.0	324.0	-48.0	10.624	30	6.51	1.72	10		
BROKEN BOW 1 N	1162	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.200	31	2.86	1.02	14		
BROKEN BOW DAM	1168	9	74.9	30	-1.5	93.	24	56.	22	.0	.0	298.0	-44.0	8.391	29	*****	1.57	29		
CARNASAW TWR	1499	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	9.990	25	*****	2.84	11		
CARTER TWR	1544	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.920	30	1.65	.82	20		
FANSHAW	3065	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	9.640	30	5.41	2.45	3		
FLAGPOLE TWR	3169	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	10.470	22	*****	2.96	15		
HEAVENER 1 SE	4008	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.590	30	2.52	1.39	14		
HEE MT TWR	4017	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.430	30	2.17	1.75	9		
HUGO	4384	9	75.9	30	-2.2	93.	24	59.	4	.0	.0	327.5	-65.5	9.960	30	5.21	2.20	29		
IDABEL	4451	9	74.9	30	-2.1	94.	25	56.	3	.0	.0	298.0	-62.0	8.430	30	4.14	1.86	11		
JADIE TOWER	4560	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.760	30	*****	1.68	30		
POTEAU W W	7254	9	73.9	30	*****	94.	19	56.	7	.0	*****	268.0	*****	6.344	30	*****	1.05	29		
SMITHVILLE 1 W	8285	9	71.9	30	-3.2	89.	24	53.	6	3.0	3.0	209.0	-94.0	7.005	30	2.79	1.70	9		
SPIRO	8416	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.630	30	2.10	1.87	20		
TUSKAHOMA	9023	9	74.2	30	-2.9	92.	18	56.	7	.5	.5	277.5	-85.5	9.450	30	4.67	2.25	3		
VALLIANT 3 W	9118	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	11.103	30	7.11	3.09	11		
WILBURTON 9 ENE	9634	9	74.3	30	-2.0	93.	24	55.	5	1.0	1.0	280.0	-59.0	8.430	30	4.31	1.92	14		

JUNE 1992 CLIMATE DIVISION SUMMARY

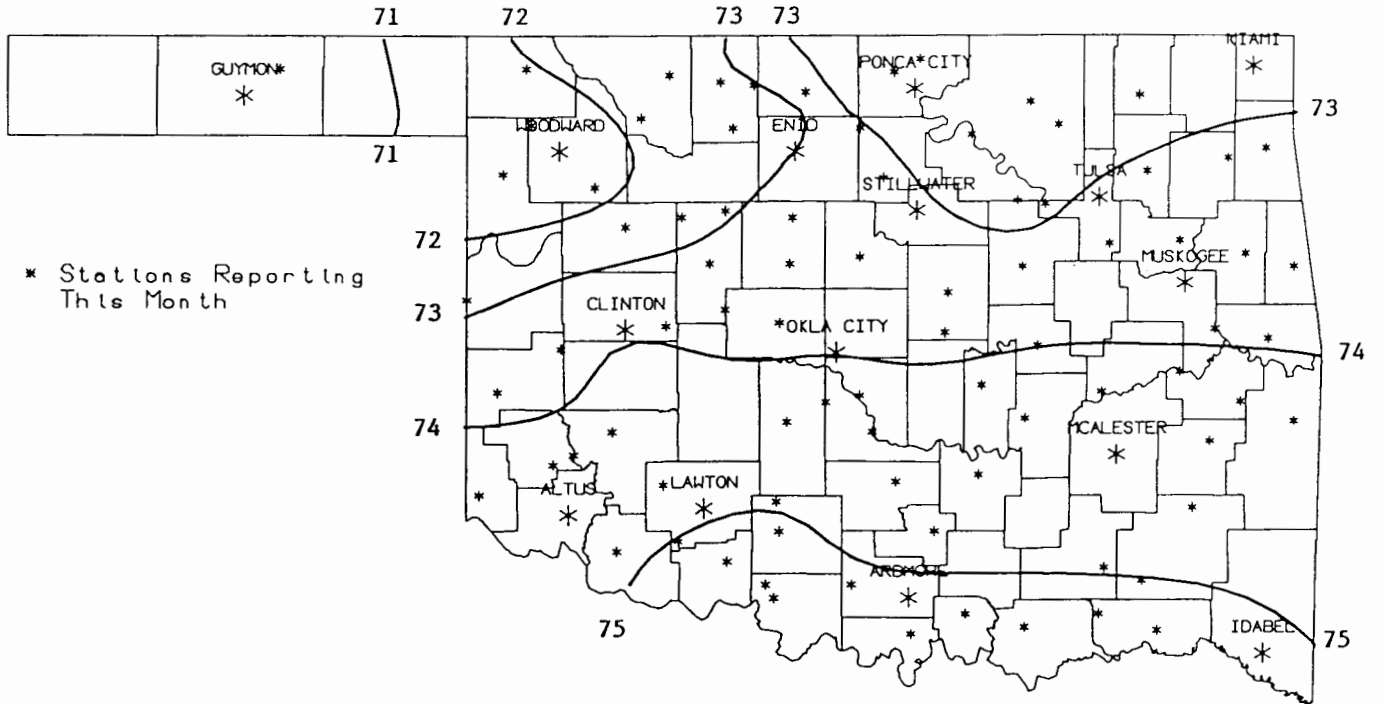
CLIMATE DIV	MEAN TEMP	NUM STA	DEV					HEAT DEGREE		DEV		COOL DEGREE		DEV		TOT PPT	NUM STA	FROM NORM	MAX 24-HR	DAY
			FROM NORM	MAX TEMP	MIN TEMP	DAY	DEG DAYS	FROM NORM	DEG DAYS	FROM NORM	DEG DAYS	FROM NORM	MAX 24-HR							
1	70.1	11	-4.6	99.0	25	44.0	3	17.7	12.5	170.9	-126.8	5.25	11	2.24	2.90	28				
2	72.5	13	-4.7	101.0	24	50.0	4	8.5	8.0	233.4	-133.9	7.45	24	3.68	3.37	15				
3	72.9	16	-3.2	96.0	19	46.0	1	4.3	4.3	240.0	-91.4	7.62	31	3.21	3.50	20				
4	73.3	10	-3.8	100.0	24	48.0	4	3.7	3.7	251.9	-110.6	5.58	20	1.76	2.52	10				
5	74.0	15	-3.2	99.0	24	48.0	4	3.2	3.2	271.1	-93.6	7.93	34	3.77	3.13	29				
6	73.9	11	-2.9	95.0	18	54.0	22	1.5	1.5	265.9	-86.2	8.23	30	4.12	4.12	20				
7	74.9	10	-3.8	101.0	24	51.0	1	2.5	2.5	296.3	-114.7	7.19	18	3.50	2.50	2				
8	75.2	14	-2.7	98.0	24	51.0	1	.6	.6	305.3	-82.1	7.45	29	3.33	3.20	25				
9	74.2	10	-2.6	94.0	19	52.0	4	.9	.9	277.4	-77.4	8.19	17	3.93	3.09	11				



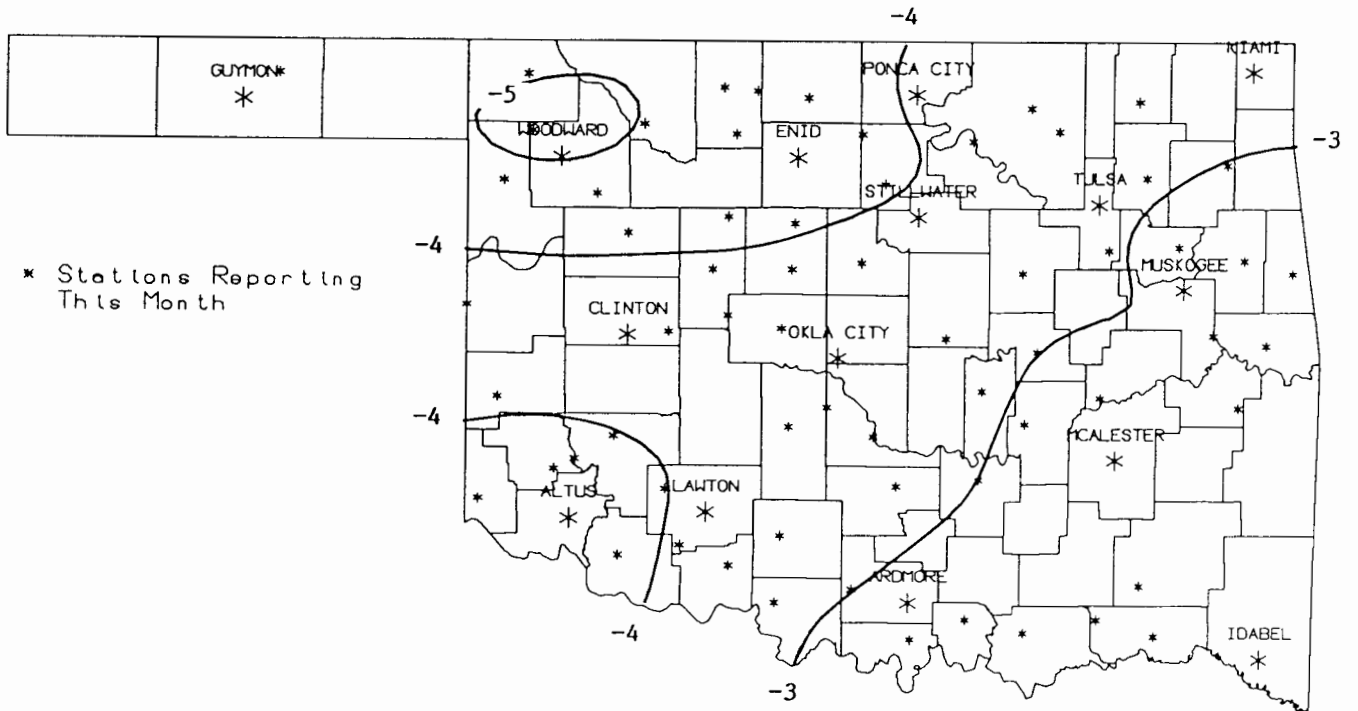
**JUNE 1992 TOTAL PRECIPITATION
(Inches)**



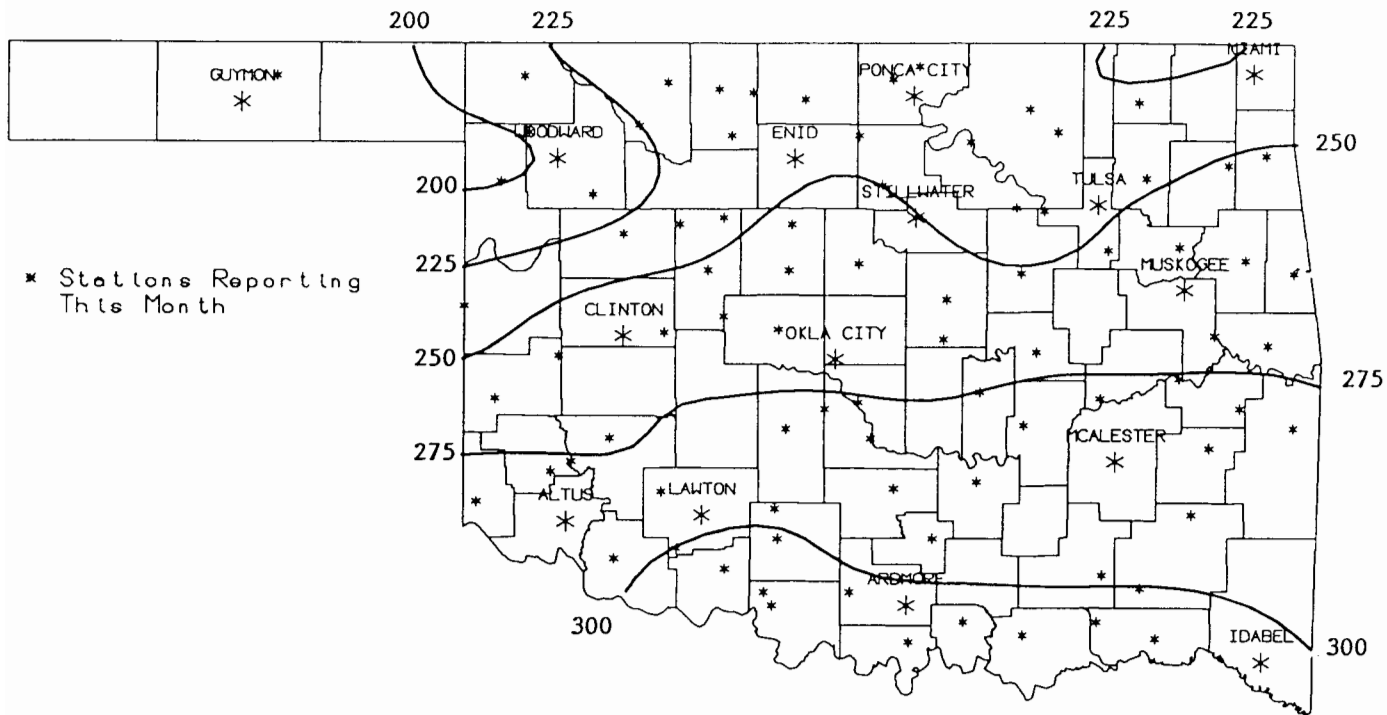
**JUNE 1992 DEVIATION FROM NORMAL PRECIPITATION
(Inches)**



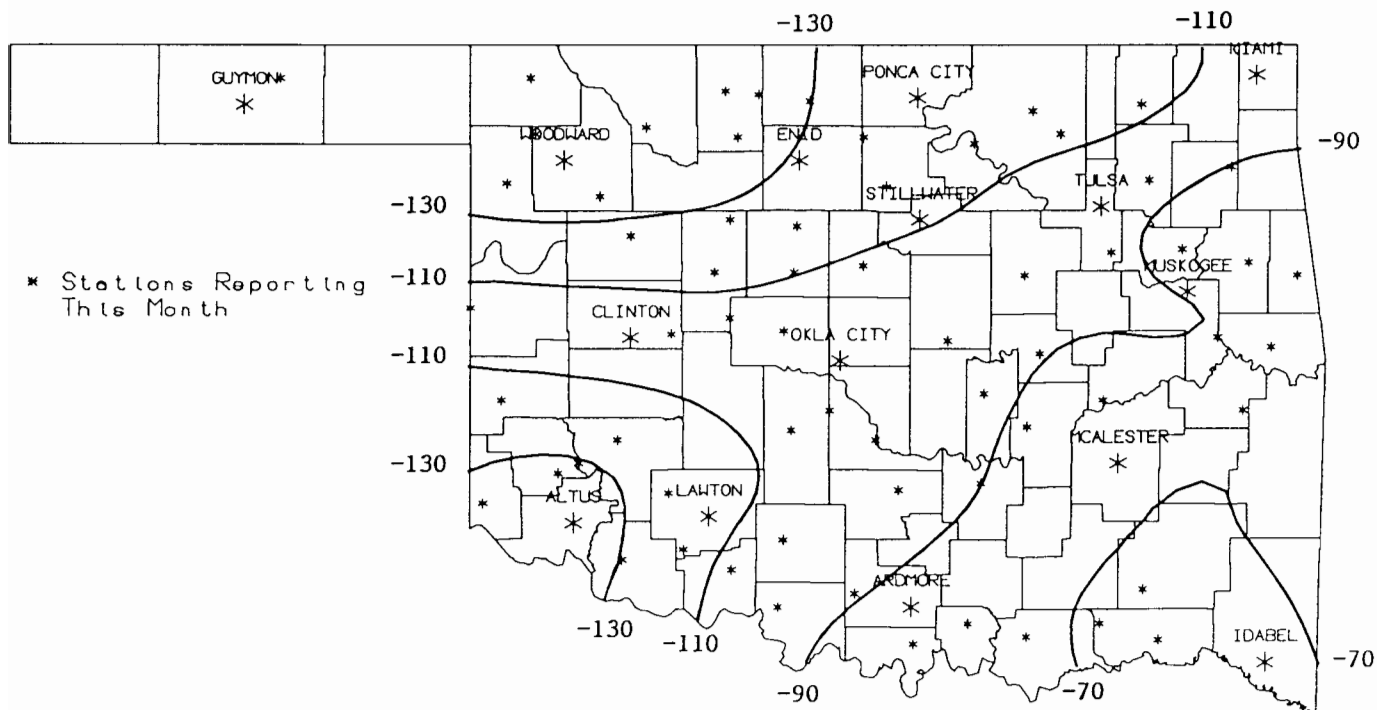
**JUNE 1992 AVERAGE MONTHLY TEMPERATURES
(Degrees F)**



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

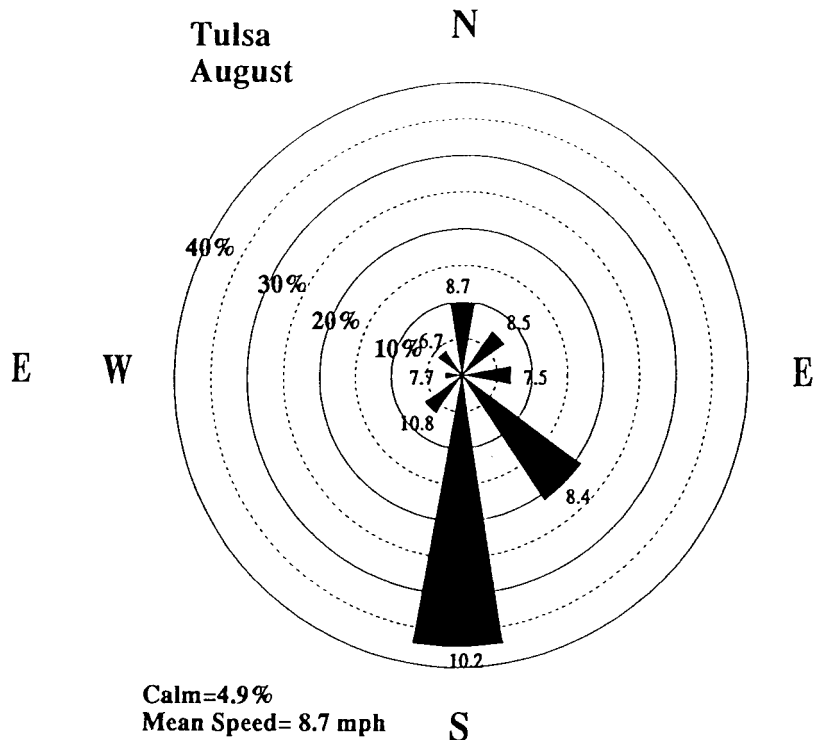
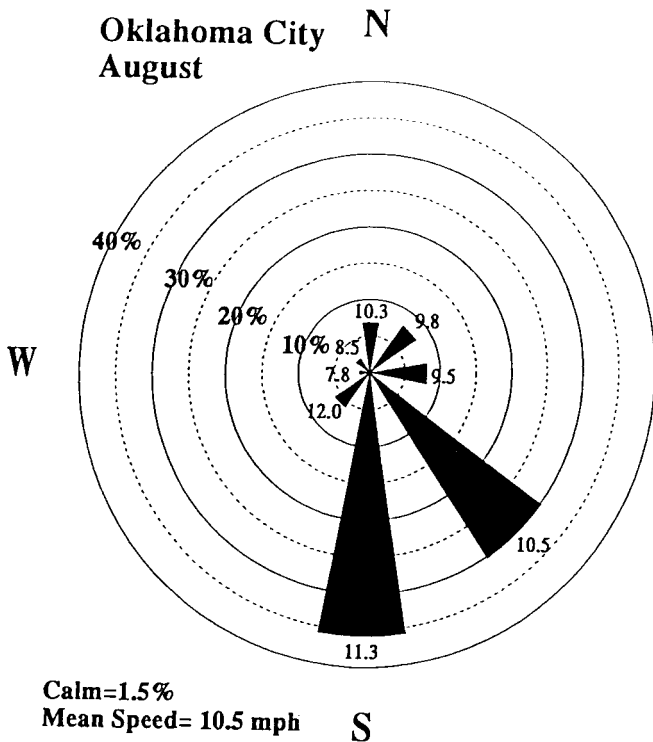


JUNE 1992 COOLING DEGREE DAYS



JUNE 1992 DEVIATION FROM NORMAL COOLING DEGREE DAYS

August 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.



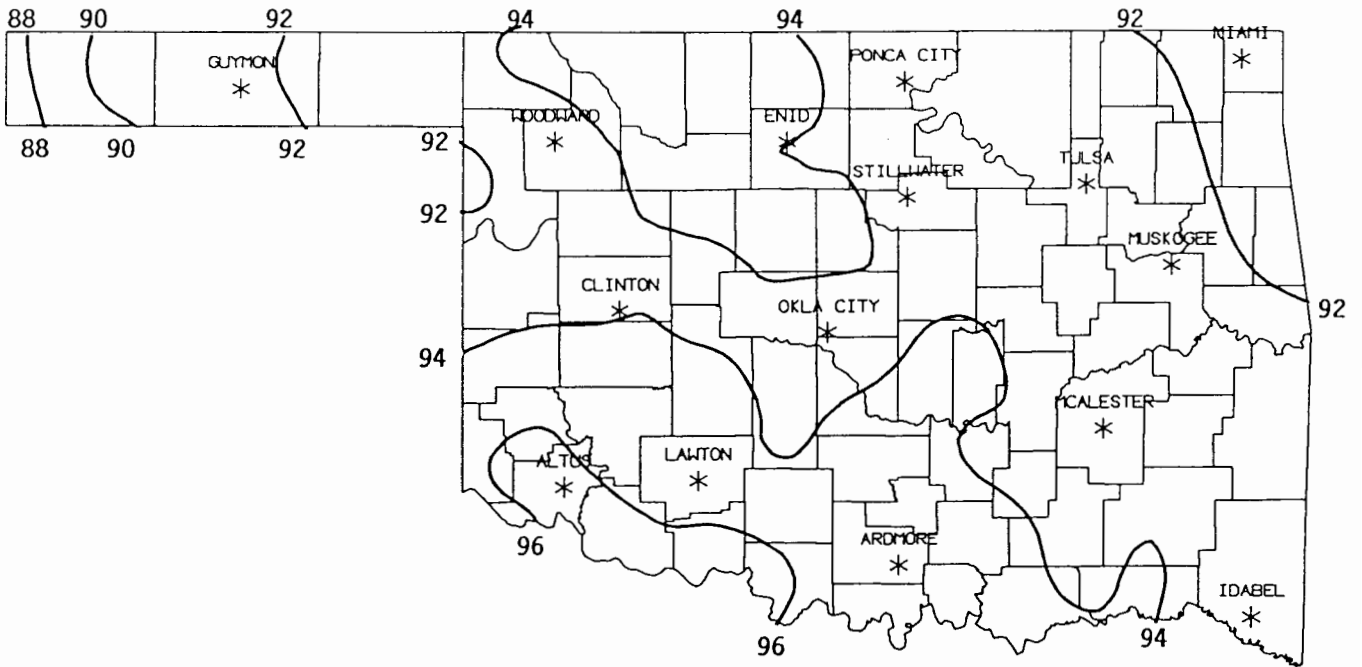
AUGUST 1992 SUNRISE AND SUNSET

OKLAHOMA CITY

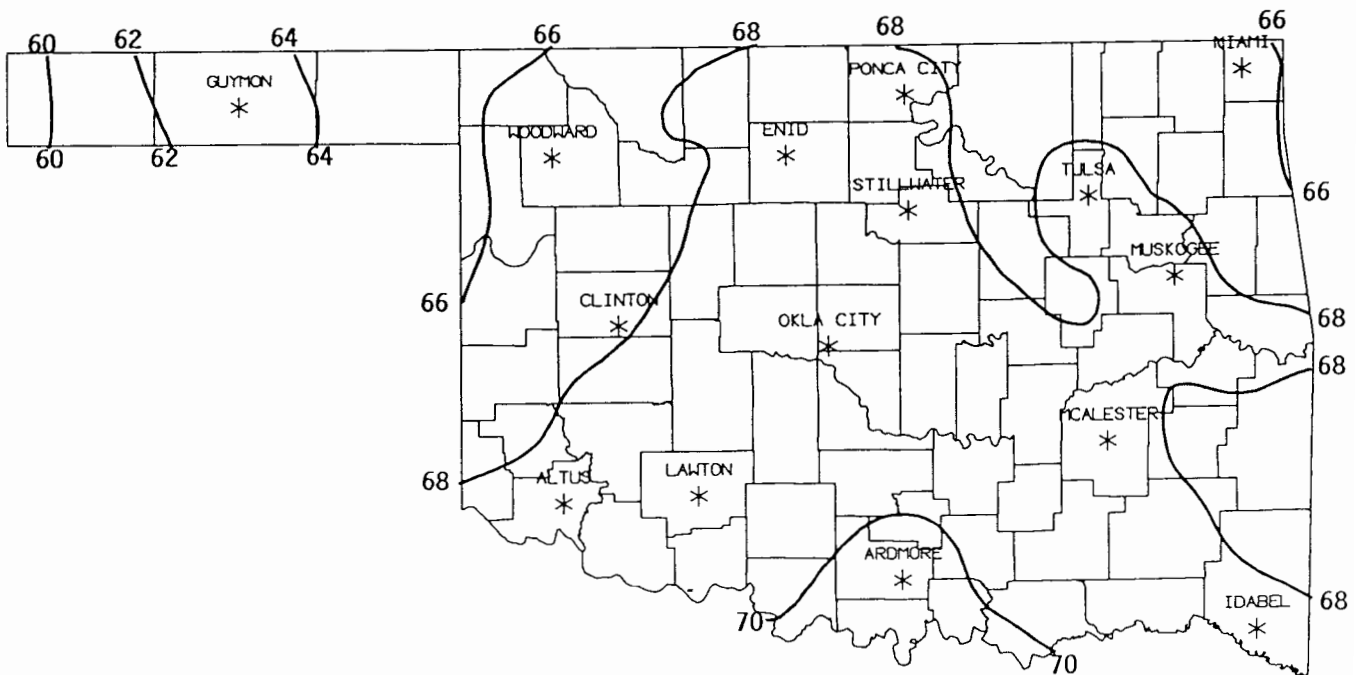
DATE	SUNRISE	SUNSET	DAYLIGHT
92 8 1	6:40AM	8:34PM CDT	13 hrs 54 mins
92 8 2	6:41AM	8:33PM CDT	13 hrs 52 mins
92 8 3	6:41AM	8:32PM CDT	13 hrs 51 mins
92 8 4	6:42AM	8:31PM CDT	13 hrs 49 mins
92 8 5	6:43AM	8:30PM CDT	13 hrs 47 mins
92 8 6	6:43AM	8:29PM CDT	13 hrs 46 mins
92 8 7	6:44AM	8:28PM CDT	13 hrs 44 mins
92 8 8	6:45AM	8:27PM CDT	13 hrs 42 mins
92 8 9	6:46AM	8:26PM CDT	13 hrs 41 mins
92 8 10	6:46AM	8:25PM CDT	13 hrs 39 mins
92 8 11	6:47AM	8:24PM CDT	13 hrs 37 mins
92 8 12	6:48AM	8:23PM CDT	13 hrs 35 mins
92 8 13	6:49AM	8:22PM CDT	13 hrs 33 mins
92 8 14	6:49AM	8:21PM CDT	13 hrs 31 mins
92 8 15	6:50AM	8:20PM CDT	13 hrs 30 mins
92 8 16	6:51AM	8:18PM CDT	13 hrs 28 mins
92 8 17	6:51AM	8:17PM CDT	13 hrs 26 mins
92 8 18	6:52AM	8:16PM CDT	13 hrs 24 mins
92 8 19	6:53AM	8:15PM CDT	13 hrs 22 mins
92 8 20	6:54AM	8:14PM CDT	13 hrs 20 mins
92 8 21	6:54AM	8:12PM CDT	13 hrs 18 mins
92 8 22	6:55AM	8:11PM CDT	13 hrs 16 mins
92 8 23	6:56AM	8:10PM CDT	13 hrs 14 mins
92 8 24	6:57AM	8: 9PM CDT	13 hrs 12 mins
92 8 25	6:57AM	8: 7PM CDT	13 hrs 10 mins
92 8 26	6:58AM	8: 6PM CDT	13 hrs 8 mins
92 8 27	6:59AM	8: 5PM CDT	13 hrs 6 mins
92 8 28	6:59AM	8: 3PM CDT	13 hrs 4 mins
92 8 29	7: 0AM	8: 2PM CDT	13 hrs 2 mins
92 8 30	7: 1AM	8: 1PM CDT	13 hrs 0 mins
92 8 31	7: 2AM	7:59PM CDT	12 hrs 58 mins

TULSA

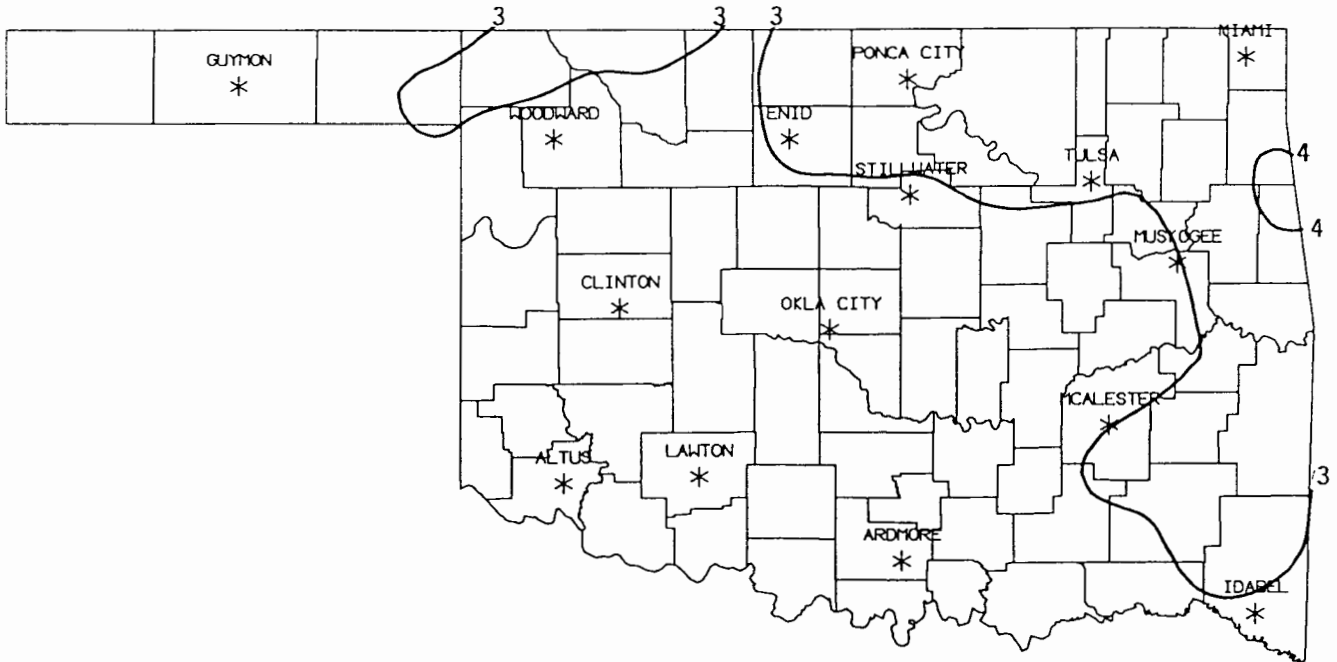
DATE	SUNRISE	SUNSET	DAYLIGHT
92 8 1	6:31AM	8:28PM CDT	13 hrs 57 mins
92 8 2	6:32AM	8:28PM CDT	13 hrs 55 mins
92 8 3	6:33AM	8:27PM CDT	13 hrs 54 mins
92 8 4	6:34AM	8:26PM CDT	13 hrs 52 mins
92 8 5	6:34AM	8:25PM CDT	13 hrs 50 mins
92 8 6	6:35AM	8:24PM CDT	13 hrs 49 mins
92 8 7	6:36AM	8:23PM CDT	13 hrs 47 mins
92 8 8	6:37AM	8:22PM CDT	13 hrs 45 mins
92 8 9	6:37AM	8:21PM CDT	13 hrs 43 mins
92 8 10	6:38AM	8:20PM CDT	13 hrs 42 mins
92 8 11	6:39AM	8:19PM CDT	13 hrs 40 mins
92 8 12	6:40AM	8:18PM CDT	13 hrs 38 mins
92 8 13	6:40AM	8:16PM CDT	13 hrs 36 mins
92 8 14	6:41AM	8:15PM CDT	13 hrs 34 mins
92 8 15	6:42AM	8:14PM CDT	13 hrs 32 mins
92 8 16	6:43AM	8:13PM CDT	13 hrs 30 mins
92 8 17	6:44AM	8:12PM CDT	13 hrs 28 mins
92 8 18	6:44AM	8:10PM CDT	13 hrs 26 mins
92 8 19	6:45AM	8: 9PM CDT	13 hrs 24 mins
92 8 20	6:46AM	8: 8PM CDT	13 hrs 22 mins
92 8 21	6:47AM	8: 7PM CDT	13 hrs 20 mins
92 8 22	6:47AM	8: 5PM CDT	13 hrs 18 mins
92 8 23	6:48AM	8: 4PM CDT	13 hrs 16 mins
92 8 24	6:49AM	8: 3PM CDT	13 hrs 14 mins
92 8 25	6:50AM	8: 1PM CDT	13 hrs 12 mins
92 8 26	6:50AM	8: 0PM CDT	13 hrs 10 mins
92 8 27	6:51AM	7:59PM CDT	13 hrs 8 mins
92 8 28	6:52AM	7:57PM CDT	13 hrs 6 mins
92 8 29	6:53AM	7:56PM CDT	13 hrs 3 mins
92 8 30	6:53AM	7:55PM CDT	13 hrs 1 mins
92 8 31	6:54AM	7:53PM CDT	12 hrs 59 mins



AUGUST 30-YEAR MEAN DAILY MAXIMUM TEMPERATURE



AUGUST 30-YEAR MEAN DAILY MINIMUM TEMPERATURE



AUGUST 30-YEAR MEAN MONTHLY PRECIPITATION

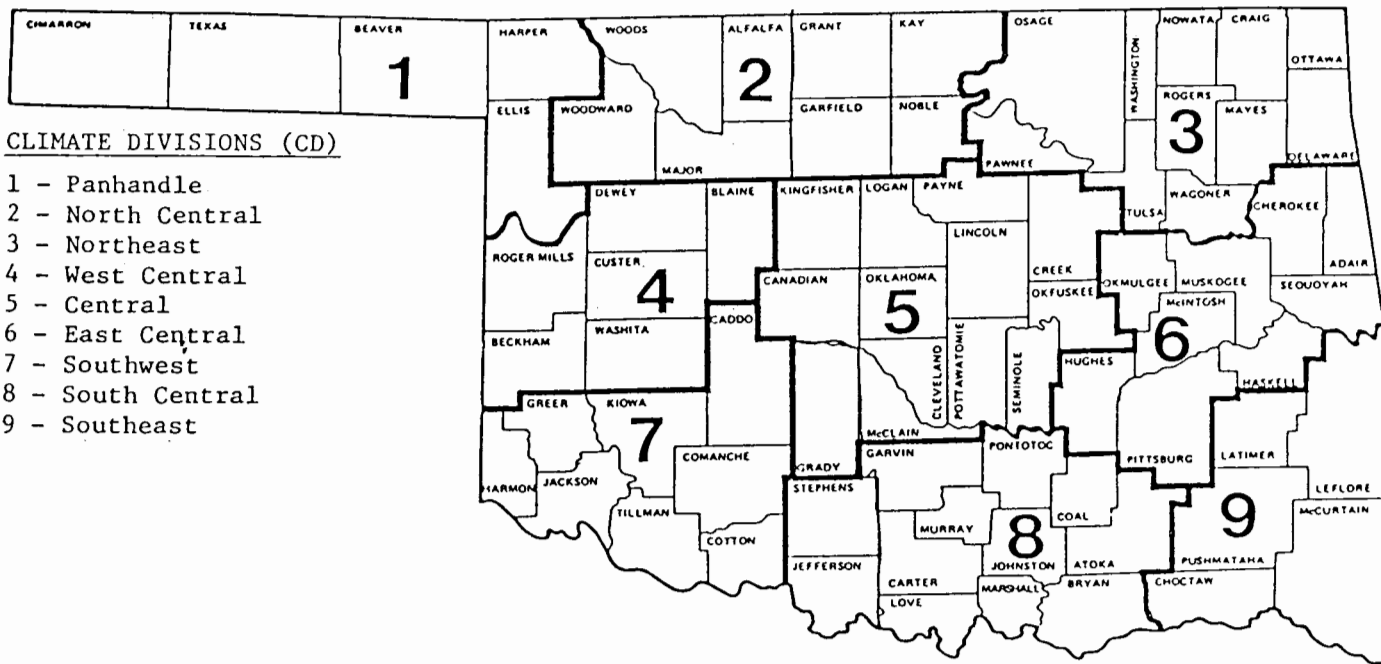
90-DAY NATIONAL WEATHER SERVICE OUTLOOK

(July - September 1992)

Precipitation - Near Normal Northeast
Above Normal Elsewhere

Temperature - Below Normal Statewide

OKLAHOMA



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
 August 1992

Normal 1	Actual	Normal 2	Actual	Normal 3	Actual	Normal 4	Actual	Normal 5	Actual	Normal 6	Actual	Normal 7	Actual
93.0 71.0 0.7 0 17 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	108-1980 72-1950 56-1971 83-1934 1-32-1904	93.0 70.0 0.3 0 17 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	110-1980 80-1898 57-1971 81-1932 1-41-1894	94.0 71.0 0.6 0 17 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	106-1930 72-1907 58-1973 80-1944 1-82-1890	93.0 71.0 0.9 0 17 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	105-1918 75-1978 58-1973 82-1980 1-32-1985	94.0 71.0 0.4 0 17 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	106-1984 76-1920 55-1894 80-1923 0-1976	95.0 72.0 1.1 0 18 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	107-1951 75-1971 56-1894 80-1980 1-38-1965	94.0 71.0 0.13 0 17 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	107-1946 76-1989 59-1894 82-1951 2-15-1939
Normal 8	Actual	Normal 9	Actual	Normal 10	Actual	Normal 11	Actual	Normal 12	Actual	Normal 13	Actual	Normal 14	Actual
93.0 70.0 1.0 0 17 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	106-1970 75-1912 54-1989 82-1951 2-60-1912	93.0 70.0 1.5 0 16 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	109-1936 75-1927 58-1908 80-1970 1-83-1915	93.0 70.0 0.9 0 16 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	112-1936 71-1989 62-1917 81-1937 1-18-1977	93.0 70.0 0.2 0 16 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	113-1936 73-1988 56-1931 82-1936 2-86-1892	93.0 69.0 0.4 0 16 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	110-1936 72-1920 56-1987 83-1936 1-85-1901	93.0 70.0 1.1 0 17 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	107-1935 73-1989 54-1987 83-1936 1-67-1989	92.0 71.0 0.14 0 17 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	106-1956 68-1989 60-1967 79-1943 1-93-1989
Normal 15	Actual	Normal 16	Actual	Normal 17	Actual	Normal 18	Actual	Normal 19	Actual	Normal 20	Actual	Normal 21	Actual
93.0 71.0 2.0 0 17 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	107-1956 77-1942 60-1920 81-1954 2-69-1945	94.0 71.0 0.5 0 17 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	107-1956 79-1964 62-1920 81-1934 1-32-1981	93.0 71.0 0.3 0 17 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	108-1909 76-1932 61-1897 82-1934 0-93-1932	92.0 70.0 0.13 0 16 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	104-1918 73-1915 57-1943 81-1934 2-87-1966	91.0 69.0 0.10 0 15 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	106-1934 72-1915 56-1932 80-1954 0-87-1977	92.0 69.0 0.08 0 15 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	105-1911 65-1950 56-1950 81-1934 1-83-1983	93.0 69.0 0.10 0 16 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	105-1911 74-1920 51-1956 81-1934 1-20-1979
Normal 22	Actual	Normal 23	Actual	Normal 24	Actual	Normal 25	Actual	Normal 26	Actual	Normal 27	Actual	Normal 28	Actual
92.0 69.0 0.3 0 15 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	104-1922 72-1920 56-1956 80-1922 3-17-1934	91.0 68.0 0.6 0 15 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	105-1980 70-1966 49-1891 80-1988 2-27-1924	92.0 69.0 0.6 0 15 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	107-1922 73-1966 50-1891 78-1936 1-11-1918	92.0 69.0 0.2 0 15 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	102-1988 72-1934 58-1966 78-1936 1-81-1934	92.0 68.0 0.6 0 15 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	104-1982 76-1944 53-1910 78-1936 1-16-1896	92.0 69.0 0.07 0 15 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	104-1982 69-1987 58-1906 78-1963 1-53-1941	90.0 68.0 0.07 0 14 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	103-1984 68-1988 58-1906 80-1951 1-44-1900
Normal 29	Actual	Normal 30	Actual	Normal 31	Actual	AUGUST AVERAGES							
91.0 68.0 0.7 0 14 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	106-1984 76-1968 50-1893 79-1951 2-33-1935	92.0 68.0 0.4 0 15 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	105-1947 70-1915 49-1915 78-1947 1-32-1928	90.0 68.0 0.16 0 14 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	104-1990 72-1986 51-1915 79-1980 2-35-1866	TEMPERATURE : 81.1°F							
HEATING DEGREE DAYS : 0							PRECIPITATION : 2.51"						
COOLING DEGREE DAYS : 495													

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.

TULSA CLIMATE CALENDAR

August 1992

<p>Normal 1 Actual</p> <p>93.0 max 72.0 min .07 ppt 0 hdd 18 cdd</p> <p>Highest Max 110-1923 Lowest Max 76-1950 Lowest Min 59-1925 Highest Min 66-1980 Greatest ppt 82-1958</p>	<p>Normal 2 Actual</p> <p>94.0 max 72.0 min .03 ppt 0 hdd 18 cdd</p> <p>Highest Max 108-1980 Lowest Max 82-1978 Lowest Min 57-1971 Highest Min 84-1980 Greatest ppt 82-1978</p>	<p>Normal 3 Actual</p> <p>94.0 max 71.0 min .02 ppt 0 hdd 18 cdd</p> <p>Highest Max 110-1923 Lowest Max 82-1971 Lowest Min 57-1976 Highest Min 81-1987 Greatest ppt 50-1981</p>	<p>Normal 4 Actual</p> <p>93.0 max 71.0 min 0 ppt 17 hdd 17 cdd</p> <p>Highest Max 111-1923 Lowest Max 72-1978 Lowest Min 52-1920 Highest Min 84-1980 Greatest ppt 2-03-1957</p>	<p>Normal 5 Actual</p> <p>95.0 max 71.0 min .03 ppt 0 hdd 18 cdd</p> <p>Highest Max 110-1964 Lowest Max 82-1948 Lowest Min 57-1920 Highest Min 82-1980 Greatest ppt 40-1986</p>	<p>Normal 6 Actual</p> <p>95.0 max 72.0 min .08 ppt 0 hdd 19 cdd</p> <p>Highest Max 109-1956 Lowest Max 70-1948 Lowest Min 60-1920 Highest Min 82-1980 Greatest ppt 87-1981</p>	<p>Normal 7 Actual</p> <p>95.0 max 72.0 min .08 ppt 0 hdd 18 cdd</p> <p>Highest Max 109-1925 Lowest Max 78-1989 Lowest Min 60-1920 Highest Min 81-1980 Greatest ppt 1-01-1954</p>	
<p>Normal 8 Actual</p> <p>94.0 max 72.0 min .16 ppt 0 hdd 18 cdd</p> <p>Highest Max 111-1935 Lowest Max 81-1989 Lowest Min 57-1989 Highest Min 82-1970 Greatest ppt 2-43-1973</p>	<p>Normal 9 Actual</p> <p>93.0 max 71.0 min .18 ppt 0 hdd 17 cdd</p> <p>Highest Max 114-1936 Lowest Max 79-1974 Lowest Min 59-1989 Highest Min 80-1980 Greatest ppt 2-65-1974</p>	<p>Normal 10 Actual</p> <p>93.0 max 71.0 min .18 ppt 0 hdd 17 cdd</p> <p>Highest Max 115-1936 Lowest Max 82-1986 Lowest Min 55-1920 Highest Min 81-1980 Greatest ppt 2-19-1979</p>	<p>Normal 11 Actual</p> <p>93.0 max 71.0 min .05 ppt 0 hdd 17 cdd</p> <p>Highest Max 114-1936 Lowest Max 74-1968 Lowest Min 58-1931 Highest Min 80-1983 Greatest ppt 91-1966</p>	<p>Normal 12 Actual</p> <p>93.0 max 70.0 min .07 ppt 0 hdd 17 cdd</p> <p>Highest Max 113-1936 Lowest Max 79-1968 Lowest Min 62-1987 Highest Min 80-1987 Greatest ppt 1-30-1948</p>	<p>Normal 13 Actual</p> <p>94.0 max 71.0 min .15 ppt 0 hdd 18 cdd</p> <p>Highest Max 114-1936 Lowest Max 74-1961 Lowest Min 54-1967 Highest Min 84-1980 Greatest ppt 1-37-1949</p>	<p>Normal 14 Actual</p> <p>92.0 max 71.0 min .25 ppt 0 hdd 17 cdd</p> <p>Highest Max 110-1923 Lowest Max 70-1961 Lowest Min 53-1920 Highest Min 83-1980 Greatest ppt 1-95-1948</p>	
<p>Normal 15 Actual</p> <p>93.0 max 71.0 min .20 ppt 0 hdd 17 cdd</p> <p>Highest Max 109-1936 Lowest Max 72-1961 Lowest Min 57-1929 Highest Min 83-1954 Greatest ppt 2-19-1969</p>	<p>Normal 16 Actual</p> <p>93.0 max 71.0 min .08 ppt 0 hdd 18 cdd</p> <p>Highest Max 109-1956 Lowest Max 77-1964 Lowest Min 60-1920 Highest Min 82-1983 Greatest ppt 1-42-1957</p>	<p>Normal 17 Actual</p> <p>93.0 max 71.0 min .11 ppt 0 hdd 18 cdd</p> <p>Highest Max 109-1909 Lowest Max 74-1957 Lowest Min 53-1920 Highest Min 84-1956 Greatest ppt 1-35-1970</p>	<p>Normal 18 Actual</p> <p>93.0 max 71.0 min .07 ppt 0 hdd 17 cdd</p> <p>Highest Max 109-1919 Lowest Max 81-1981 Lowest Min 54-1943 Highest Min 82-1954 Greatest ppt 74-1980</p>	<p>Normal 19 Actual</p> <p>92.0 max 70.0 min .05 ppt 0 hdd 16 cdd</p> <p>Highest Max 108-1934 Lowest Max 75-1977 Lowest Min 56-1932 Highest Min 80-1980 Greatest ppt 73-1987</p>	<p>Normal 20 Actual</p> <p>92.0 max 69.0 min .10 ppt 0 hdd 16 cdd</p> <p>Highest Max 106-1935 Lowest Max 66-1950 Lowest Min 53-1967 Highest Min 78-1983 Greatest ppt 5-37-1989</p>	<p>Normal 21 Actual</p> <p>92.0 max 69.0 min .08 ppt 0 hdd 16 cdd</p> <p>Highest Max 108-1936 Lowest Max 80-1950 Lowest Min 54-1950 Highest Min 80-1987 Greatest ppt 1-31-1966</p>	
<p>Normal 22 Actual</p> <p>91.0 max 69.0 min .08 ppt 0 hdd 15 cdd</p> <p>Highest Max 106-1936 Lowest Max 72-1961 Lowest Min 50-1920 Highest Min 77-1987 Greatest ppt 1-14-1971</p>	<p>Normal 23 Actual</p> <p>91.0 max 69.0 min .05 ppt 0 hdd 15 cdd</p> <p>Highest Max 108-1936 Lowest Max 68-1966 Lowest Min 51-1920 Highest Min 78-1983 Greatest ppt 1-11-1977</p>	<p>Normal 24 Actual</p> <p>92.0 max 69.0 min .07 ppt 0 hdd 16 cdd</p> <p>Highest Max 107-1936 Lowest Max 79-1966 Lowest Min 53-1920 Highest Min 80-1983 Greatest ppt 2-18-1972</p>	<p>Normal 25 Actual</p> <p>92.0 max 69.0 min .02 ppt 0 hdd 16 cdd</p> <p>Highest Max 105-1978 Lowest Max 83-1985 Lowest Min 57-1966 Highest Min 80-1983 Greatest ppt 63-1975</p>	<p>Normal 26 Actual</p> <p>92.0 max 69.0 min .07 ppt 0 hdd 16 cdd</p> <p>Highest Max 104-1978 Lowest Max 76-1964 Lowest Min 52-1910 Highest Min 81-1978 Greatest ppt 1-91-1987</p>	<p>Normal 27 Actual</p> <p>92.0 max 69.0 min .08 ppt 0 hdd 16 cdd</p> <p>Highest Max 105-1913 Lowest Max 70-1987 Lowest Min 50-1910 Highest Min 80-1983 Greatest ppt 1-00-1974</p>	<p>Normal 28 Actual</p> <p>91.0 max 68.0 min .19 ppt 0 hdd 15 cdd</p> <p>Highest Max 104-1963 Lowest Max 70-1988 Lowest Min 53-1967 Highest Min 82-1980 Greatest ppt 2-12-1984</p>	
<p>Normal 29 Actual</p> <p>91.0 max 69.0 min 1.0 ppt 0 hdd 15 cdd</p> <p>Highest Max 107-1984 Lowest Max 70-1974 Lowest Min 51-1931 Highest Min 79-1984 Greatest ppt 2-36-1955</p>	<p>Normal 30 Actual</p> <p>91.0 max 69.0 min .03 ppt 0 hdd 15 cdd</p> <p>Highest Max 107-1947 Lowest Max 72-1968 Lowest Min 50-1915 Highest Min 79-1983 Greatest ppt 71-1991</p>	<p>Normal 31 Actual</p> <p>90.0 max 69.0 min .15 ppt 0 hdd 14 cdd</p> <p>Highest Max 106-1951 Lowest Max 74-1966 Lowest Min 48-1915 Highest Min 84-1980 Greatest ppt 1-86-1962</p>	AUGUST AVERAGES				
TEMPERATURE						: 81.5°F	
PRECIPITATION						: 2.94"	
HEATING DEGREE DAYS						: 0	
COOLING DEGREE DAYS						: 518	