

# OKLAHOMA MONTHLY SUMMARY JULY 1994

## TABLE OF CONTENTS

July 1994 Oklahoma Summary.....	2
Table of July 1993/1994 Comparisons.....	5
July 1994 Data Summary Tables.....	6
July 1994 State Map Summary.....	11
September Climatological Normals.....	14
90-Day National Weather Service Outlook.....	16
Explanation of Tables and Maps.....	17
September 1994 Oklahoma City Climate Calendar.....	19
September 1994 Tulsa Climate Calendar.....	20

## MONTHLY SUMMARY FOR JULY 1994

Most of Oklahoma received greater than normal precipitation during a cooler-than-normal July, although dry weather persisted in many places in the west. Temperatures averaged 80.1 degrees, two degrees below normal, during the month. Monthly precipitation across the state ranged from slightly over one-half inch at Elk City to more than 15 inches at Barnsdall. The statewide average of 4.36 inches was 1.74 inches above normal, the 15th greatest July precipitation since 1892. Records for total precipitation in July (all since 1948) were established at Barnsdall ( 15.44 inches), Pawhuska ( 11.49 inches), Claremore (10.59 inches), and Kingston (10.59 inches). The year-to-date precipitation of 20.65 inches for the state is .32 inch above normal. Temperatures through the first seven months of the year have averaged .1 degree greater than normal.

The first strong thunderstorms of the month produced hail in south central Oklahoma and strong winds in north central areas of the state early on the first. Strong thunderstorms developed late in the day on the first and continued overnight pounding much of north central and eastern Oklahoma with strong winds (including a gust to 82 miles per hour at Foraker in northern Osage County ). Western Oklahoma , in the meantime, continued under the effects of a heat wave, as Chattanooga (Comanche County) reported 108 degrees on the third and Buffalo (Harper County) reported 107 degrees on the first and the third.

Thunderstorms in southwestern Oklahoma late on the 5th introduced a two-week period during which heavy rains over the eastern two-thirds of the state led to local flooding in many areas. Small tornadoes were reported near Hominy and Foraker in Osage County and 85 mile per hour winds were reported west of Bartlesville on the 7th. Tragedy struck at Turner Falls (Murray County) when a car was swept off a low-water crossing while evacuating a campground, resulting in the drowning of two children. Daily precipitation reports included 4 inches at Tuskahoma (Pushmataha County) on the 9th, 3.7 inches near Loco (Stephens County) on the 10th and 4.2 inches at Kingston (Marshall County) on the 11th.

Storms on the 12th produced damaging winds in Sand Springs (Tulsa County) and a reported 5 inches of rain in Avant (Osage County). On the 14th, winds of 85 miles per hour at Stillwater and 82 miles per hour in Tulsa damaged property. Tulsa International Airport received 2.5 inches of rain in one hour. As much as 6 inches of rain were reported in the Idabel (McCurtain County) area and local flooding was reported in Muldrow (Sequoyah County). Pawhuska reported 3.52 inches and Blackwell (Kay County) 3.42 inches on the 13th. Broken Bow reported 3.74 inches on the 15th.

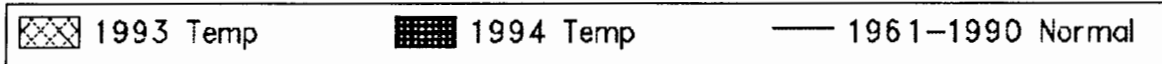
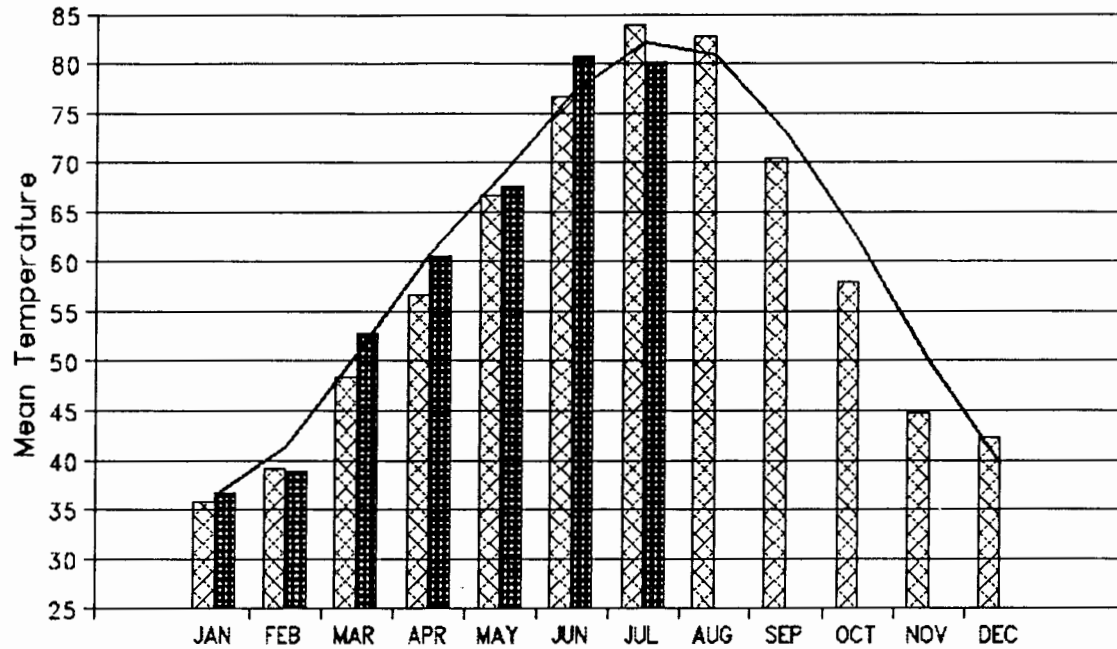
Hail and high wind struck Bartlesville and Dewey (Washington County) on the 17th. The same day, in McCurtain County in southeastern Oklahoma, a lightning strike killed 18 cattle near Bethel and 7 inches of rain was reported near Watson. Meanwhile, in the west, Buffalo reached 107 degrees on the 18th and Altus (Jackson County) and Mutual (Woodward County) each reported 105 degrees on the 19th.

Locally heavy rains from strong thunderstorms occurred in many locations again from the 20th through the 27th. The eastern Osage County community of Barnsdall continued to be a favorite target, reporting 3.57 inches on the 21st and another 3 inches on the 27th. Three-inch diameter hail was reported in northern Seminole County on the 24th, an apparent microburst damaged a mobile home north of Alva in Woods County and lightning started a grass fire in Caddo County near Apache. Hollis (Harmon County), Reydon (Roger Mills), Erick (Beckham) and Altus Dam (Kiowa) each warmed to 106 degrees on the 24th.

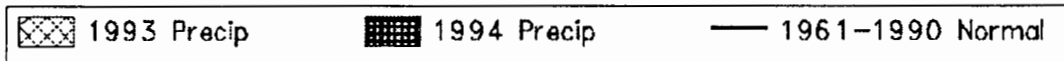
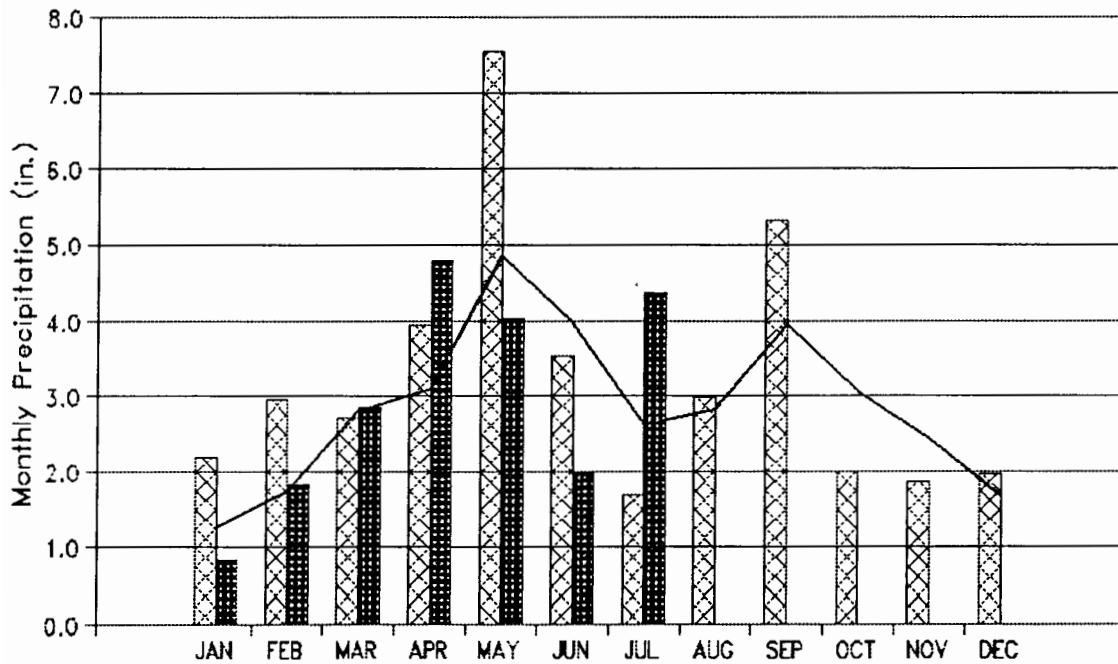
A significant cold front that had lingered across the state for several days finally moved through on the 27th, dropping overnight low temperatures into the 50s in many locations and to a July station record low of 48 degrees at Fort Supply (Woodward County) on the 27th. Temperatures remained below the century mark statewide for the remainder of the month and widely scattered thunderstorms returned to the state on the 30th and 31st.

Howard L. Johnson

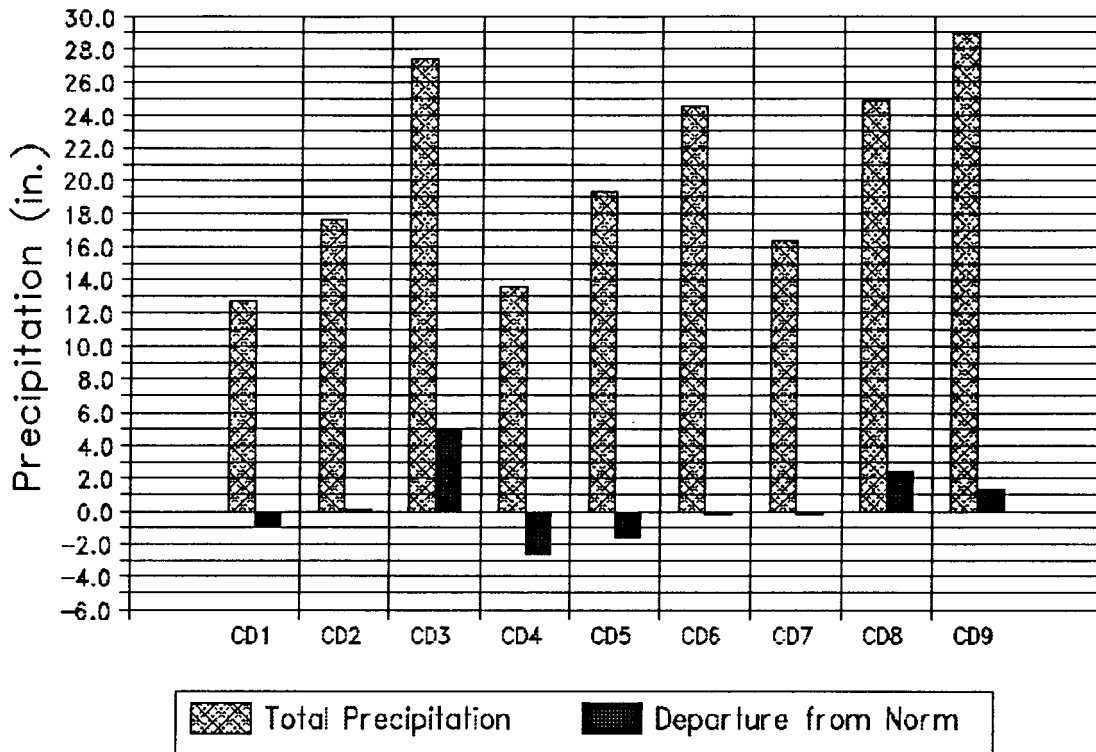
### 1993 and 1994 STATEWIDE TEMPERATURES Monthly Averages



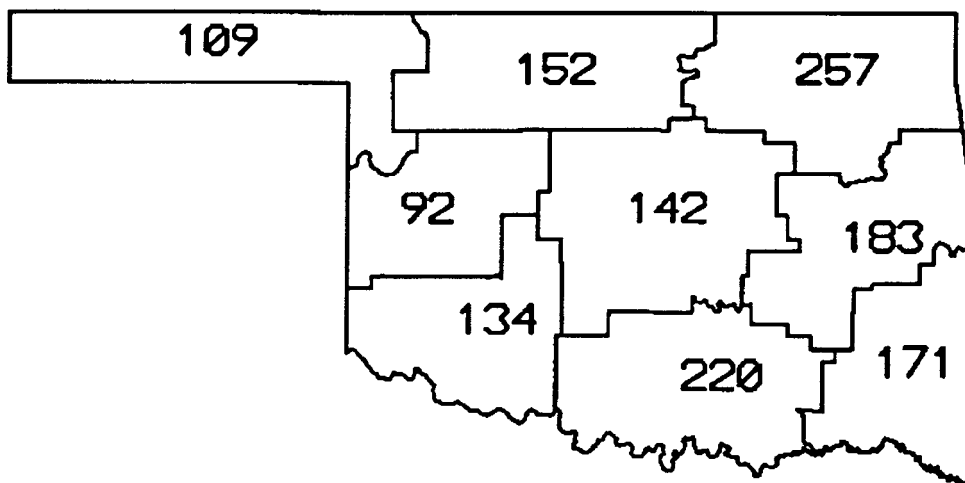
### 1993 and 1994 STATEWIDE PRECIPITATION Monthly Totals



### CD Averaged Precipitation January through July 1994



### CD PERCENT OF NORMAL PRECIPITATION



JULY 1994

EXTREME VALUES OF TEMPERATURE AND PRECIPITATION IN EACH CLIMATE DIVISION  
JULY, 1994

CD	MAX			MIN			24-HOUR			MONTHLY	
	TEMP	DATE	LOCATION	TEMP	DATE	LOCATION	PRECIP	DATE	LOCATION	PRECIP	LOCATION
1	107	1	BUFFALO	49	8	BOISE CITY	1.33	17	BEAVER	4.45	HOOKER
	107	3	BUFFALO								
	107	18	BUFFALO								
2	105	19	MUTUAL	52	28	FT SUPPLY DAM	3.42	13	BLACKWELL	9.12	NEWKIRK
3	102	5	UPPER SPAVIN	52	28	JAY TOWER	3.57	21	BARNSDALL	15.44	BARNSDALL
4	106	23	ERICK	53	27	ERICK	1.85	16	TALOGA	3.06	TALOGA
	106	23	REYDON	53	27	HAMMON					
				53	28	HAMMON					
				53	29	HAMMON					
5	104	23	GUTHRIE	54	28	PURCELL	2.52	15	OKEMAH	6.26	STELLA
6	102	18	EUFAULA	53	27	STILWELL	3.25	15	WETUMKA	9.92	STILWELL
7	106	24	ALTUS DAM	55	28	WICHITA MT WLR	2.37	23	FORT SILL	4.89	ANADARKO
	106	23	HOLLIS								
8	101	10	MADILL	54	27	MARLOW	4.20	11	KINGSTON	9.95	KINGSTON
	101	24	MARLOW	54	28	MARLOW					
	101	25	WAURIKA								
	101	4	WAURIKA DAM								
	101	25	WAURIKA DAM								
9	99	18	WILBURTON	53	29	TUSKAHOMA	5.09	15	IDABEL	11.16	CARNASAW TWR

TABLE OF 1993/1994 COMPARISONS

Station	JULY Temperature (°F)		JULY Precipitation (in.)	
	1993	1994	1993	1994
Arnett	79.7	78.0	1.58	3.01
Enid	84.4	81.9	3.94	2.22
Mutual	82.8	80.3	0.93	1.78
Tulsa	84.7	79.5	2.42	10.69
Elk City	82.4	81.5	2.54	0.61
Oklahoma City	83.6	79.9	1.24	2.17
McAlester	86.9	79.6	0.09	6.92
Altus Irr Sta	85.7	82.4	1.73	1.65
Durant	84.5	80.1	0.01	8.47
Ada	84.5	80.2	0.25	4.36
Hugo	85.6	80.5	0.11	5.58

EXTREMES

Variable	Station	Division	Observation	Date
Minimum temperature (°F)	Boise City	1	49	8
Maximum temperature (°F)	Buffalo	1	107	18
Maximum 24-hour precipitation	Idabel	9	5.09"	15

**JULY 1994 SUMMARY FOR NORTHWEST DIVISION (CD1)**

NAME	ID	CD	DEV				MIN		DAY	HEAT	DEV	COOL	DEV	TOT	NUM	DEV		MAX	DAY
			DEG	FROM	DEG	FROM	DAY	NORM		DAY	NORM	PPT	OBS			NORM	24-HR		
ARNETT	332	1	78.0	28	*****	98.	24	57.	9	.0	*****	365.0	*****	3.011	29	*****	.97	26	
BEAVER	593	1	79.0	31	-1.7	105.	4	53.	28	.0	.0	434.0	-53.0	2.521	31	-.34	1.33	17	
BOISE CITY 2 E	908	1	77.5	31	-.4	103.	1	49.	8	.0	.0	387.5	-12.5	2.486	31	-.26	1.05	29	
BUFFALO	1243	1	83.0	31	-.2	107.	18	55.	27	.0	.0	557.5	-6.5	2.200	31	-.79	.70	21	
FARGO	3070	1	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	1.801	31	-.24	.57	26	
GAGE FAA APT	3407	1	79.5	31	-2.4	102.	19	52.	27	.0	.0	449.0	-75.0	1.942	31	.07	.80	26	
GATE	3489	1	79.9	31	-1.9	105.	4	56.	8	.0	.0	460.5	-60.5	3.681	31	1.25	1.28	17	
GOODWELL RES ST	3628	1	78.4	31	-.1	106.	2	50.	8	.0	.0	416.5	-2.5	1.961	31	-.56	.44	26	
GUYMON	3835	1	78.9	29	*****	104.	19	52.	8	.0	*****	402.0	*****	2.071	25	*****	.58	3	
HOOKER	4298	1	77.8	31	-2.2	104.	2	53.	8	.0	.0	397.5	-67.5	4.450	31	2.16	1.03	26	
KENTON	4766	1	76.9	31	-.6	104.	2	50.	8	.0	.0	369.0	-19.0	1.700	31	-1.64	.55	4	
LAVERNE	5045	1	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	3.711	31	1.18	1.20	17	
OPTIMA LAKE	6740	1	78.7	31	*****	105.	2	53.	8	.0	*****	426.0	*****	3.541	31	*****	1.05	26	
REGNIER	7534	1	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	1.862	31	-.48	.52	15	
TURPIN 4 SSE	9017	1	78.4	31	*****	105.	2	53.	8	.0	*****	415.5	*****	2.760	31	*****	.64	17	

**JULY 1994 SUMMARY FOR NORTH CENTRAL DIVISION (CD2)**

NAME	ID	CD	DEV				MIN		DAY	HEAT	DEV	COOL	DEV	TOT	NUM	DEV		MAX	DAY
			DEG	FROM	DEG	FROM	DAY	NORM		DAY	NORM	PPT	OBS			NORM	24-HR		
ALVA	193	2	81.3	31	*****	104.	3	57.	27	.0	*****	506.0	*****	5.620	31	*****	2.28	25	
VANCE AFB	302	2	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	2.123	29	*****	.66	16	
BILLINGS	755	2	79.3	31	-4.0	99.	2	56.	29	.0	.0	442.0	-125.0	3.902	31	.77	1.25	21	
BLACKWELL 2E	818	2	79.7	29	*****	100.	1	59.	27	.0	*****	426.5	*****	8.450	31	5.31	3.42	13	
BRAMAN	1075	2	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	5.070	31	*****	1.54	31	
CEDARDALE	1620	2	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	2.913	31	*****	1.47	16	
CHEROKEE	1724	2	81.9	31	-2.2	104.	2	57.	28	.0	.0	525.0	-67.0	3.911	31	1.17	1.25	25	
ENID	2912	2	81.9	31	-1.4	102.	3	59.	28	.0	.0	523.0	-44.0	2.220	31	-.54	.79	21	
FT SUPPLY DAM	3304	2	79.3	30	-1.4	101.	20	52.	28	.0	.0	429.5	-57.5	3.832	31	1.64	1.04	21	
FREEDOM	3358	2	78.5	31	-4.5	104.	4	53.	28	.0	.0	419.0	-139.0	4.260	31	1.90	1.13	16	
GREAT SALT PLNS	3740	2	79.9	31	-3.1	103.	2	57.	27	.0	.0	462.0	-96.0	4.140	31	1.45	1.02	13	
HARDY	3909	2	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	5.970	31	*****	2.20	10	
HELENA 1 SSE	4019	2	80.5	31	-1.4	104.	2	58.	28	.0	.0	481.0	-43.0	3.832	31	1.21	1.08	25	
JEFFERSON	4573	2	80.7	31	-2.8	101.	18	55.	27	.0	.0	485.5	-88.5	3.970	31	.64	1.72	20	
LAMONT	5013	2	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	3.970	31	*****	2.02	21	
MEDFORD	5768	2	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	1.465	31	*****	.55	15	
MUTUAL	6139	2	80.3	31	-1.5	105.	19	55.	28	.0	.0	475.0	-46.0	1.780	31	-.57	.59	16	
NEWKIRK	6278	2	78.8	31	-3.7	99.	1	56.	29	.0	.0	428.0	-115.0	9.120	31	5.84	2.48	21	
ORIENTA	6751	2	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	3.170	31	.57	1.08	26	
PERRY	7012	2	80.9	31	-1.8	99.	23	57.	28	.0	.0	493.5	-55.5	2.410	31	-.68	.86	15	
PONCA CITY FAA	7201	2	80.9	31	-1.6	100.	19	58.	27	.0	.0	491.5	-51.5	6.871	31	3.17	1.73	21	
RED ROCK 1 NNE	7505	2	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	3.900	31	1.01	1.47	21	
WAYNOKA	9404	2	81.0	31	-2.2	104.	3	55.	27	.0	.0	495.0	-69.0	5.040	31	2.61	1.86	21	
WOODWARD	9760	2	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	4.374	31	1.78	1.53	12	

**JULY 1994 SUMMARY FOR NORTHEAST DIVISION (CD3)**

NAME	ID	CD	DEV				MIN	HEAT		DEV		COOL		DEV		TOT	NUM	DEV		24-HR	DAY
			MEAN	NUM	FROM	MAX		DEG	DEG	FROM	DEG	FROM	DEG	FROM	NORM			NORM	NORM		
BARNSDALL	535	3	78.2	31	-4.0	97.	1	55.	29	.0	.0	408.5	-124.5	15.442	31	12.51	3.57	21			
BARTLESVILLE 2W	548	3	79.0	31	-3.1	97.	4	57.	28	.0	.0	435.0	-95.0	7.413	31	4.81	2.45	13			
BIXBY	782	3	78.6	31	-2.4	95.	24	58.	30	.0	.0	422.5	-73.5	8.530	31	5.66	2.20	21			
BURBANK	1256	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.881	31	3.64	1.90	21			
CHELSEA 4 S	1717	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.290	31	*****	2.52	13			
CLAREMORE	1828	3	77.9	31	-3.3	96.	1	57.	27	.0	.0	399.5	-102.5	10.590	31	7.62	3.05	8			
CLEVELAND 5 WSW	1902	3	78.8	31	*****	97.	7	57.	29	.0	*****	429.0	*****	6.580	29	*****	1.51	15			
FORAKER	3250	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	12.400	31	9.33	2.80	21			
HOLLOW	4258	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.810	31	2.65	1.55	21			
HOMINY	4289	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.892	31	3.82	1.64	27			
HULAH DAM	4393	3	78.1	19	*****	97.	6	56.	29	.0	*****	248.5	*****	6.071	25	*****	1.90	21			
JAY TOWER	4567	3	77.9	31	*****	100.	2	52.	28	.0	*****	400.0	*****	5.100	31	*****	2.00	13			
KANSAS 1 ESE	4672	3	77.3	30	-2.6	93.	1	57.	29	.0	.0	368.5	-93.5	5.963	31	3.35	1.54	8			
KEYSTONE DAM	4812	3	78.3	28	*****	98.	1	55.	29	.0	*****	373.0	*****	5.721	30	*****	2.23	15			
LENAPAH	5118	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.520	31	*****	1.40	21			
MANNFORD 6 NW	5522	3	79.3	28	*****	97.	1	55.	31	.0	*****	399.0	*****	6.301	31	3.53	1.95	15			
MARAMEC	5540	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.560	31	2.77	1.41	15			
MIAMI	5855	3	76.7	31	-3.4	97.	2	53.	28	.0	.0	363.0	-105.0	6.830	31	3.30	1.14	13			
NOWATA	6485	3	77.7	31	-4.2	98.	1	58.	27	.0	.0	392.5	-131.5	6.310	24	*****	2.22	20			
PAWHUSKA	6935	3	78.1	31	-3.5	95.	19	56.	29	.0	.0	407.5	-107.5	11.490	31	8.31	3.52	13			
PAWNEE	6940	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.330	31	1.60	1.25	21			
PRYOR 6 N	7309	3	77.4	31	-3.3	96.	2	57.	29	.0	.0	383.0	-104.0	10.272	31	7.52	2.36	25			
RALSTON	7390	3	78.3	31	-3.6	97.	2	55.	29	.0	.0	412.5	-111.5	5.180	31	2.24	1.40	21			
RAMONA 4 N	7394	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.830	31	*****	3.10	14			
SKIATOOK	8258	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	8.620	31	5.48	2.20	21			
SPAVINAW	8380	3	79.9	31	-2.1	97.	1	57.	27	.0	.0	461.0	-66.0	4.680	31	1.66	1.45	8			
TULSA WSO APT	8992	3	79.5	31	-3.8	96.	23	60.	27	.0	.0	449.0	-118.0	10.691	31	7.60	3.13	14			
UPPER SPAVINAW	9101	3	79.8	31	*****	102.	5	58.	29	.0	*****	459.0	*****	5.420	31	*****	1.70	25			
VINITA 2 N	9203	3	80.0	12	*****	97.	1	60.	9	.0	*****	180.0	*****	6.321	31	3.36	1.72	15			
WAGONER	9247	3	78.9	31	-3.0	94.	19	58.	27	.0	.0	431.0	-93.0	7.280	31	4.45	1.63	8			
WANN	9298	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.670	31	*****	2.22	21			
WYNONA	9792	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.280	31	*****	1.81	21			

**JULY 1994 SUMMARY FOR WEST CENTRAL DIVISION (CD4)**

NAME	ID	CD	DEV				MIN	HEAT		DEV		COOL		DEV		TOT	NUM	DEV		24-HR	DAY
			MEAN	NUM	FROM	MAX		DEG	DEG	FROM	DEG	FROM	DEG	FROM	NORM			NORM	NORM		
CANTON DAM	1445	4	79.1	31	-3.0	100.	6	56.	28	.0	.0	437.5	-92.5	2.300	31	-.05	1.32	16			
CHEYENNE	1738	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.870	31	.14	1.34	6			
CLINTON	1909	4	82.0	31	-1.8	105.	23	57.	27	.0	.0	527.0	-56.0	.890	31	-1.20	.51	26			
COLONY	2039	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.861	31	*****	.88	16			
CORDELL	2125	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.412	31	-.52	.86	9			
ELK CITY 1 E	2849	4	81.5	31	-.4	105.	23	57.	27	.0	.0	512.5	-11.5	.606	31	-1.28	.35	26			
ERICK 4 E	2944	4	80.5	31	-1.2	106.	23	53.	27	.0	.0	480.5	-37.5	2.181	31	.49	.79	6			
GEARY	3497	4	82.5	31	.3	103.	23	65.	27	.0	.0	543.5	10.5	1.950	31	-.11	.74	25			
HAMMON 1 NNE	3871	4	79.5	26	*****	103.	20	53.	29	.0	*****	376.5	*****	.541	26	*****	.54	26			
LEEDEY	5090	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.630	31	-1.15	.25	26			
MACKIE 4 NNW	5463	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.720	31	*****	.74	12			
MORAVIA 2 NNE	6035	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.623	31	-.14	.57	6			
OKEENE	6629	4	81.3	31	-2.2	102.	1	57.	27	.0	.0	504.0	-70.0	2.250	31	-.11	.97	21			
RETROP	7565	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.240	31	*****	.83	9			
REYDON	7579	4	83.5	31	2.9	106.	23	61.	27	.0	.0	575.0	91.0	2.212	31	.41	1.28	26			
SAYRE	7952	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.080	31	-.59	.42	26			
SWEETWATER 2 E	8652	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.860	31	*****	1.05	6			
TALOGA	8708	4	80.5	31	-1.5	102.	3	54.	27	.0	.0	482.0	-45.0	3.062	31	.83	1.85	16			
THOMAS	8815	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.480	31	*****	.54	15			
VICI	9172	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.361	31	-.80	.40	24			
WATONGA	9364	4	81.4	31	-1.0	102.	1	57.	27	.0	.0	507.5	-31.5	2.542	31	.27	1.11	16			
WEATHERFORD	9422	4	82.1	31	.0	103.	23	61.	26	.0	.0	530.0	.0	1.070	31	-1.03	.55	15			

JULY 1994 SUMMARY FOR CENTRAL DIVISION (CD5)

NAME	ID	CD	DEV						HEAT		DEV		COOL		DEV		TOT PPT	NUM OBS	DEV	
			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	DAY				
AMBER	200	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.130	31	*****	.81	15		
TINKER AFB	325	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.033	30	*****	.91	16		
BLANCHARD 2 SSW	830	5	81.0	30	-1.6	101.	1	59.	28	.0	.0	480.5	-65.5	2.965	31	.39	1.31	8		
BRISTOW	1144	5	79.4	31	-2.6	97.	23	55.	29	.0	.0	446.5	-80.5	6.121	31	3.38	1.74	21		
CHANDLER	1684	5	80.5	31	-2.0	99.	24	57.	29	.0	.0	481.5	-61.5	4.821	31	2.11	1.33	15		
CHICKASHA EX ST	1750	5	81.6	31	-1.3	100.	24	57.	28	.0	.0	515.0	-40.0	2.422	31	.33	.85	9		
COX CITY 1 E	2196	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.290	31	*****	1.53	9		
CRESCENT	2242	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.540	31	*****	1.07	16		
CUSHING	2318	5	79.4	30	-2.5	97.	24	60.	29	.0	.0	432.0	-92.0	2.730	31	-.39	.80	26		
EL RENO 1 N	2818	5	81.2	31	-1.1	101.	24	57.	27	.0	.0	501.5	-34.5	1.680	31	-.60	.98	16		
GUTHRIE	3821	5	83.0	31	-.3	104.	23	58.	28	.0	.0	557.0	-10.0	2.611	31	.28	1.22	15		
HENNESSEY 4 ESE	4055	5	81.2	31	-2.1	103.	1	57.	27	.0	.0	502.5	-64.5	2.670	31	.12	.83	16		
INGALLS	4489	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.681	31	*****	1.80	25		
KINGFISHER 2 SE	4861	5	81.1	31	-2.3	102.	23	56.	28	.0	.0	498.5	-71.5	1.700	31	-.35	1.11	16		
KONAWA	4915	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.941	31	1.92	1.54	9		
MARSHALL	5589	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.560	31	1.29	1.02	15		
MEEKER 4 W	5779	5	80.4	31	-1.5	98.	24	55.	29	.0	.0	476.5	-47.5	3.280	31	1.03	1.65	14		
MULHALL	6110	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.670	31	*****	1.05	15		
NORMAN 3 S	6386	5	79.9	31	-2.3	101.	24	57.	27	.0	.0	460.5	-72.5	4.150	31	1.39	1.77	10		
OILTON 2 SE	6616	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.460	23	*****	1.10	14		
OKEMAH	6638	5	80.6	31	-1.0	98.	23	60.	29	.0	.0	483.0	-32.0	4.280	31	1.12	2.52	15		
OKLAHOMA CTY WS	6661	5	79.9	31	-2.1	102.	1	58.	28	.0	.0	461.5	-65.5	2.174	31	-.44	.69	16		
PERKINS	7003	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.820	31	2.16	1.52	15		
PIEDMONT	7068	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.060	31	*****	1.10	15		
PRAGUE	7264	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.511	31	1.55	2.24	16		
PURCELL 5 SW	7327	5	80.4	31	-2.4	100.	24	54.	28	.0	.0	476.0	-76.0	3.712	31	.95	1.20	10		
SEMINOLE	8042	5	81.7	31	-1.7	100.	23	59.	29	.0	.0	517.5	-52.5	3.671	31	1.15	1.78	14		
SHAWNEE	8110	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.800	31	.63	1.43	15		
STELLA	8479	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.260	31	*****	2.46	9		
STILLWATER 2 W	8501	5	80.2	31	-1.4	99.	24	57.	29	.0	.0	472.0	-43.0	3.391	31	.49	1.05	21		
STROUD 1 N	8563	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.711	31	*****	1.31	15		
TECUMSEH	8751	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.240	31	*****	1.09	15		
TROUSDALE	8960	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.090	31	*****	1.42	14		
UNION CITY 1 SE	9086	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.402	31	.10	.71	15		
WELTY 1 SSE	9479	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.591	31	*****	1.82	15		
WEWOKA	9575	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.090	31	1.72	1.83	15		

JULY 1994 SUMMARY FOR EAST CENTRAL DIVISION (CD6)

NAME	ID	CD	DEV						HEAT		DEV		COOL		DEV		TOT PPT	NUM OBS	DEV	
			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	DAY				
ASHLAND	364	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.753	31	*****	1.11	14		
BEGGS	631	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.610	31	*****	1.70	14		
CALVIN	1391	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.730	31	1.66	1.10	10		
CHECOTAH	1711	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.941	31	.90	1.22	15		
CLAYTON 14 WNW	1858	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.910	31	*****	1.12	27		
DEWAR 2 NE	2485	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.370	31	1.99	2.48	16		
DUSTIN	2690	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.310	31	*****	1.10	21		
EUFULA	2993	6	84.7	31	1.4	102.	18	67.	10	.0	.0	610.0	43.0	2.501	31	-.79	.60	27		
HANNA	3884	6	79.6	31	-2.2	97.	1	55.	29	.0	.0	452.5	-68.5	4.570	31	1.76	.77	22		
HARTSHORNE	3946	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.550	31	*****	1.13	22		
HASKELL	3956	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.200	31	1.59	1.74	21		
HOLDENVILLE	4235	6	79.9	31	-2.0	99.	23	55.	29	.0	.0	462.0	-62.0	5.460	31	2.68	1.29	15		
LAKE EUFAULA	4975	6	78.1	14	*****	98.	24	57.	29	.0	*****	183.0	*****	4.041	31	*****	1.47	15		
LYONS 2 N	5437	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.460	31	4.55	1.88	8		
MARBLE CITY	5546	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.117	31	*****	1.15	15		
MCALESTER FAA	5664	6	79.6	31	-2.3	96.	23	56.	29	.0	.0	453.0	-71.0	6.922	31	4.25	2.09	6		
MCCURTAIN 1 SE	5693	6	80.6	31	-1.8	101.	18	56.	29	.0	.0	484.0	-55.0	4.903	31	1.73	1.35	7		
MUSKOGEE	6130	6	79.8	31	-2.4	99.	2	59.	30	.0	.0	459.0	-74.0	5.120	31	2.48	1.43	20		
OKMULGEE W W	6670	6	78.3	30	-2.4	98.	1	55.	29	.0	.0	399.0	-88.0	7.230	30	*****	2.80	15		
OKTAHA 2 NE	6678	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.310	31	*****	2.32	13		
SALLISAW 2 NE	7862	6	78.9	31	-2.9	96.	24	58.	29	.0	.0	431.0	-90.0	2.800	31	-.20	1.20	2		
SCIPPIO	7979	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.270	31	*****	.92	15		
SHORT	8170	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.720	31	*****	2.73	7		
STILWELL 1 NE	8506	6	76.1	31	-3.8	94.	1	53.	27	.0	.0	344.0	-118.0	9.920	31	6.87	2.04	8		
TAHLEQUAH	8677	6	77.2	31	-3.3	95.	1	54.	28	.0	.0	378.0	-103.0	8.761	31	5.78	2.20	8		
WEBBERS FALLS	9445	6	78.4	30	-3.3	97.	25	57.	30	.0	.0	403.5	-114.5	6.650	31	4.17	1.82	14		
WETUMKA 3 NE	9571	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.990	31	3.07	3.25	15		



JULY 1994 SUMMARY FOR SOUTHWEST DIVISION (CD7)

NAME	ID	CD	DEV					HEAT		DEV		COOL		DEV		TOT	NUM	DEV	MAX	24-HR	DAY
			MEAN	NUM	FROM	MAX	MIN	DEG	DAY	FROM	DEG	DAY	FROM	NORM	FROM						
ALTUS IRR STA	179	7	82.4	31	-2.1	104.	23	60.	28	.0	.0	539.0	-66.0	1.650	31	-.11	1.09	9			
ALTUS DAM	184	7	83.5	31	-.7	106.	24	60.	27	.0	.0	572.5	-22.5	1.960	31	.05	.92	6			
ANADARKO	224	7	79.4	31	-3.4	98.	1	56.	26	.0	.0	446.5	-105.5	4.890	26	****	1.83	16			
APACHE	260	7	****	0	****	****	0	****	0	****	****	****	****	2.940	31	.91	1.10	16			
ALTUS AFB	447	7	****	0	****	****	0	****	0	****	****	****	****	.143	26	****	.14	26			
CARNEGIE 2 ENE	1504	7	80.9	29	****	101.	24	58.	27	.0	****	462.5	****	.741	31	-1.26	.33	26			
CHATTANOOGA	1706	7	82.5	30	-1.8	105.	25	58.	28	.0	.0	524.5	-73.5	1.990	31	-.13	1.01	6			
DUNCAN 11 W	2668	7	****	0	****	****	0	****	0	****	****	****	****	3.231	31	****	.95	9			
FREDERICK	3353	7	83.1	12	****	104.	24	63.	28	.0	****	217.0	****	2.840	30	****	1.44	9			
GRANDFIELD 4 NW	3709	7	****	0	****	****	0	****	0	****	****	****	****	3.100	31	1.12	1.30	6			
HEADRICK	3998	7	****	0	****	****	0	****	0	****	****	****	****	2.830	31	****	1.22	8			
HOBART FAA APT	4204	7	82.1	31	-1.6	105.	23	59.	27	.0	.0	531.5	-48.5	1.837	31	-.24	.69	9			
HOLLIS	4249	7	82.1	31	-2.1	106.	23	59.	27	.0	.0	530.0	-65.0	2.860	31	1.24	1.06	9			
LAWTON	5063	7	81.7	31	-1.8	103.	25	56.	8	.0	.0	517.0	-57.0	2.640	31	.74	1.17	15			
FORT SILL	5068	7	80.9	31	****	101.	24	60.	28	.0	****	494.0	****	4.857	31	****	2.37	23			
LOOKEBA 2 ENE	5329	7	****	0	****	****	0	****	0	****	****	****	****	1.992	31	.10	1.02	16			
MANGUM RES STA	5509	7	81.4	31	-2.8	102.	23	58.	28	.0	.0	507.5	-87.5	2.320	31	.29	1.03	6			
RANDLETT 9 E	7403	7	****	0	****	****	0	****	0	****	****	****	****	3.340	31	****	1.60	10			
ROOSEVELT	7727	7	****	0	****	****	0	****	0	****	****	****	****	3.410	31	1.35	1.69	23			
SEDAN	8016	7	****	0	****	****	0	****	0	****	****	****	****	.820	31	****	.30	6			
SNYDER	8299	7	****	0	****	****	0	****	0	****	****	****	****	4.101	31	2.04	2.00	9			
VINSON 3 WNW	9212	7	****	0	****	****	0	****	0	****	****	****	****	3.211	31	1.58	1.40	9			
WALTERS	9278	7	80.7	31	-3.4	101.	25	57.	28	.0	.0	486.0	-106.0	4.290	31	1.93	1.62	9			
WICHITA MT WLR	9629	7	79.0	27	****	101.	25	55.	28	.0	****	377.0	****	2.770	31	.46	1.08	9			
WILLOW	9668	7	****	0	****	****	0	****	0	****	****	****	****	2.210	31	****	.65	2			

JULY 1994 SUMMARY FOR SOUTH CENTRAL DIVISION (CD8)

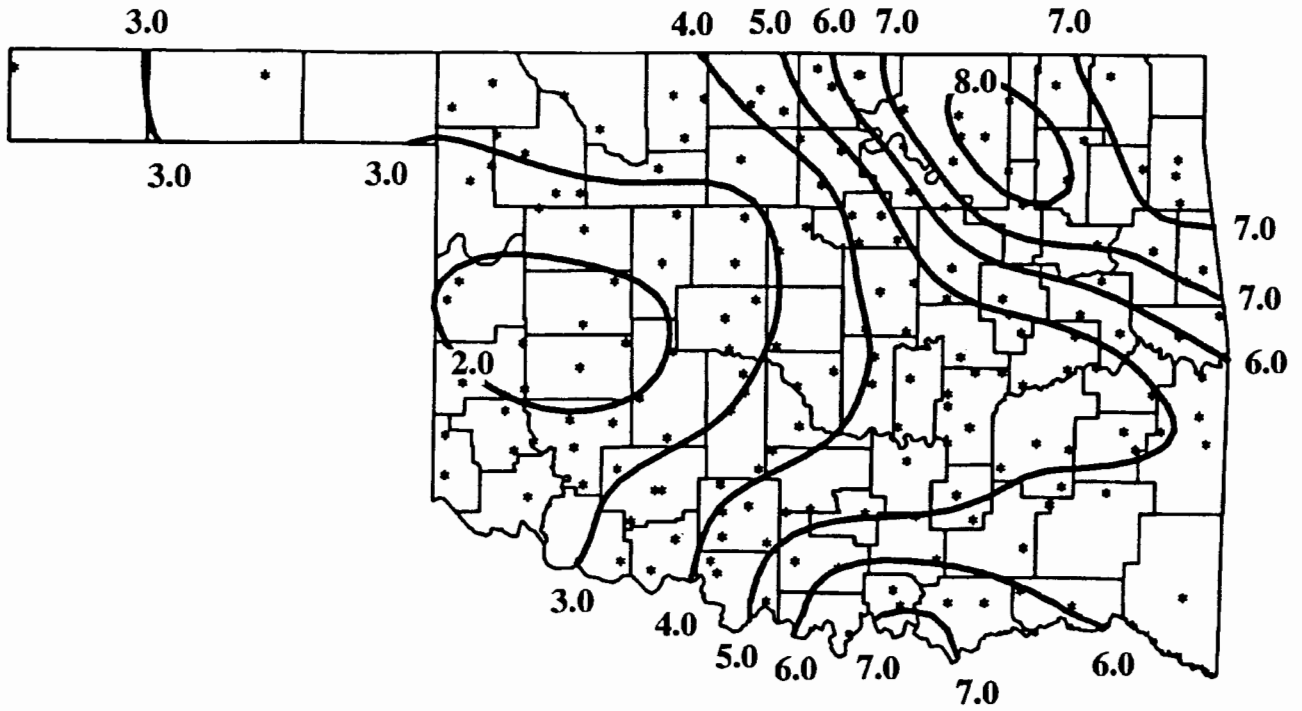
NAME	ID	CD	DEV					HEAT		DEV		COOL		DEV		TOT	NUM	DEV	MAX	24-HR	DAY
			MEAN	NUM	FROM	MAX	MIN	DEG	DAY	FROM	DEG	DAY	FROM	NORM	FROM						
ADA	17	8	80.2	31	-2.0	97.	27	57.	28	.0	.0	472.0	-61.0	4.361	31	1.95	2.28	15			
ALLEN	147	8	****	0	****	****	0	****	0	****	****	****	****	3.590	31	****	1.05	15			
ARDMORE	292	8	80.3	30	-3.7	96.	25	59.	28	.0	.0	460.5	-128.5	6.760	31	4.63	1.94	9			
ATOKA DAM	394	8	80.4	20	****	100.	25	60.	29	.0	****	309.0	****	4.071	20	****	1.59	11			
BOKCHITO	917	8	****	0	****	****	0	****	0	****	****	****	****	6.010	31	****	1.54	13			
CENTRAHOMA	1648	8	****	0	****	****	0	****	0	****	****	****	****	4.350	31	****	.80	10			
CHICKASAW NRA	1745	8	81.0	31	-1.1	98.	25	56.	28	.0	.0	496.5	-33.5	4.321	31	1.65	2.30	9			
COLEMAN	2011	8	****	0	****	****	0	****	0	****	****	****	****	3.810	31	****	.70	10			
COMANCHE	2054	8	****	0	****	****	0	****	0	****	****	****	****	2.700	31	.75	1.31	8			
DAISY 4 ENE	2354	8	****	0	****	****	0	****	0	****	****	****	****	4.401	31	.97	1.49	14			
DUNCAN	2660	8	79.9	31	-3.2	98.	25	59.	28	.0	.0	462.0	-99.0	5.440	31	3.19	2.37	9			
DURANT USDA	2678	8	80.1	31	-2.2	98.	25	57.	28	.0	.0	469.5	-66.5	8.470	31	6.18	2.00	10			
ELMORE CITY	2872	8	****	0	****	****	0	****	0	****	****	****	****	4.480	31	****	2.00	10			
FARRIS 3 WNW	3083	8	****	0	****	****	0	****	0	****	****	****	****	3.230	31	.60	.60	11			
GRADY	3688	8	****	0	****	****	0	****	0	****	****	****	****	5.310	31	****	2.96	10			
HEALDTON	4001	8	79.9	31	-3.0	98.	24	57.	28	.0	.0	462.5	-92.5	6.700	31	4.73	3.25	9			
HENNEPIN	4052	8	****	0	****	****	0	****	0	****	****	****	****	6.320	31	****	1.98	10			
KETCHUM RANCH	4780	8	****	0	****	****	0	****	0	****	****	****	****	2.640	31	****	1.10	9			
KINGSTON	4865	8	****	0	****	****	0	****	0	****	****	****	****	9.951	31	7.84	4.20	11			
LEHIGH	5108	8	****	0	****	****	0	****	0	****	****	****	****	7.053	31	****	1.50	31			
LINDSAY 2 W	5216	8	80.3	31	-2.4	100.	24	59.	29	.0	.0	474.5	-74.5	3.940	31	1.88	1.75	10			
LOCO 6 SE	5247	8	****	0	****	****	0	****	0	****	****	****	****	7.310	31	****	3.70	10			
MADILL	5468	8	80.5	31	-2.8	101.	10	60.	27	.0	.0	480.0	-87.0	7.780	31	5.59	3.30	9			
MARIETTA	5563	8	81.2	31	-2.0	98.	24	59.	28	.0	.0	502.5	-61.5	6.901	31	4.79	2.58	10			
MARLOW 1 WSW	5581	8	80.2	31	-2.1	101.	24	54.	28	.0	.0	470.0	-66.0	5.000	31	2.68	2.71	9			
MC GEE CREEK DAM	5713	8	79.2	27	****	99.	25	58.	29	.0	****	383.5	****	4.280	31	****	1.05	15			
PAULS VALLEY	6928	8	80.2	31	-3.1	96.	24	55.	28	.0	.0	471.0	-96.0	4.970	31	2.71	2.50	10			
PONTOTOC	7214	8	****	0	****	****	0	****	0	****	****	****	****	3.440	31	.90	.78	30			
TISHOMINGO NWLR	8884	8	80.8	20	****	99.	18	59.	29	.0	****	317.0	****	2.831	21	****	1.76	11			
TUSSY	9032	8	****	0	****	****	0	****	0	****	****	****	****	2.440	31	****	.87	9			
WAURIKA	9395	8	81.7	31	-2.6	101.	25	57.	28	.0	.0	519.0	-79.0	3.174	31	1.36	1.20	9			
WAURIKA DAM	9399	8	81.7	30	****	101.	25	58.	28	.0	****	501.0	****	3.904	31	****	1.37	10			

**JULY 1994 SUMMARY FOR SOUTHEAST DIVISION (CD9)**

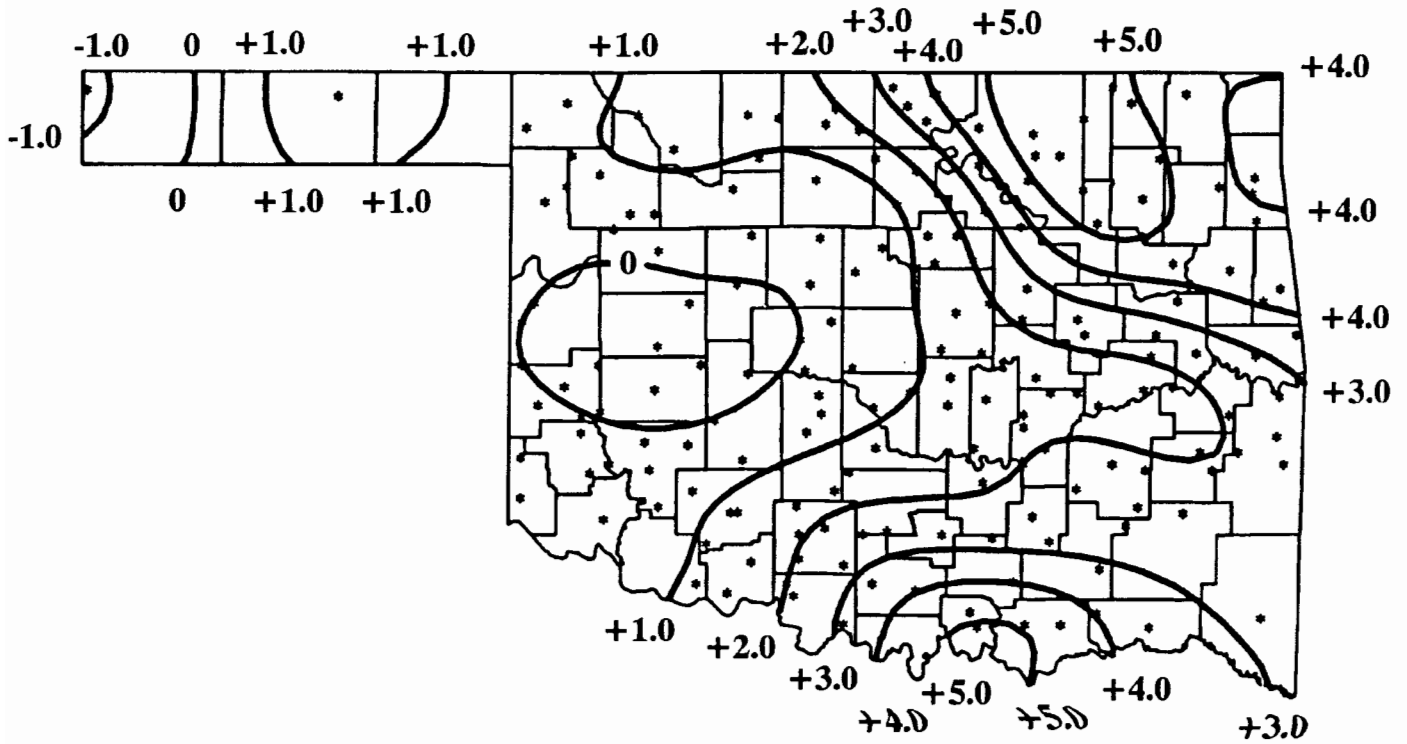
NAME	ID	CD	DEV						HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV		24-HR DAY	
			MEAN TEMP	NUM OBS	FROM NORM	MAX TEMP	MIN TEMP	DAY							FROM NORM	MAX		
ANTLERS	256	9	79.1	31	-2.2	96.	24	56.	28	.0	.0	437.0	-68.0	5.500	31	2.23	1.20	7
BATTIEST 1 SSW	567	9	75.9	18	*****	95.	1	54.	29	.0	*****	195.5	*****	9.010	31	*****	3.08	13
BENGAL	670	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.111	31	*****	.88	7
BOSWELL 4 MNW	980	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.822	31	4.30	1.40	11
BROKEN BOW 1 N	1162	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.570	31	3.04	3.74	15
BROKEN BOW DAM	1168	9	79.4	31	-1.1	97.	2	60.	31	.0	.0	446.5	-34.5	10.011	31	6.11	4.83	15
CARNASAW TWR	1499	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	11.160	31	7.15	4.00	15
CARTER TWR	1544	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	8.860	31	4.87	2.25	15
FANSHAWE	3065	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.230	31	.62	1.05	27
HEAVENER 1 SE	4008	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.552	31	3.11	1.95	22
HEE MT TWR	4017	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	9.670	31	5.85	2.95	15
HUGO	4384	9	80.5	31	-1.8	96.	24	61.	28	.0	.0	481.0	-55.0	5.580	31	2.79	.99	13
IDABEL	4451	9	79.7	31	-1.2	95.	25	61.	28	.0	.0	457.0	-36.0	9.193	31	5.85	5.09	15
POTEAU W W	7254	9	79.3	31	*****	98.	19	56.	29	.0	*****	442.5	*****	3.140	31	*****	.90	6
SMITHVILLE 1 W	8285	9	76.6	31	-2.6	95.	3	54.	29	.0	.0	359.0	-81.0	6.905	31	2.59	3.10	14
SPIRO	8416	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.871	31	4.63	2.22	7
TUSKAHOMA	9023	9	79.2	31	-2.5	94.	24	53.	29	.0	.0	440.5	-77.5	7.610	31	3.90	4.00	9
VALLIANT 3 W	9118	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.231	31	3.77	3.10	22
WILBURTON 9 ENE	9634	9	80.3	31	-.9	99.	18	57.	28	.0	.0	473.5	-28.5	4.312	31	.55	1.23	21

**JULY 1994 CLIMATE DIVISION SUMMARY**

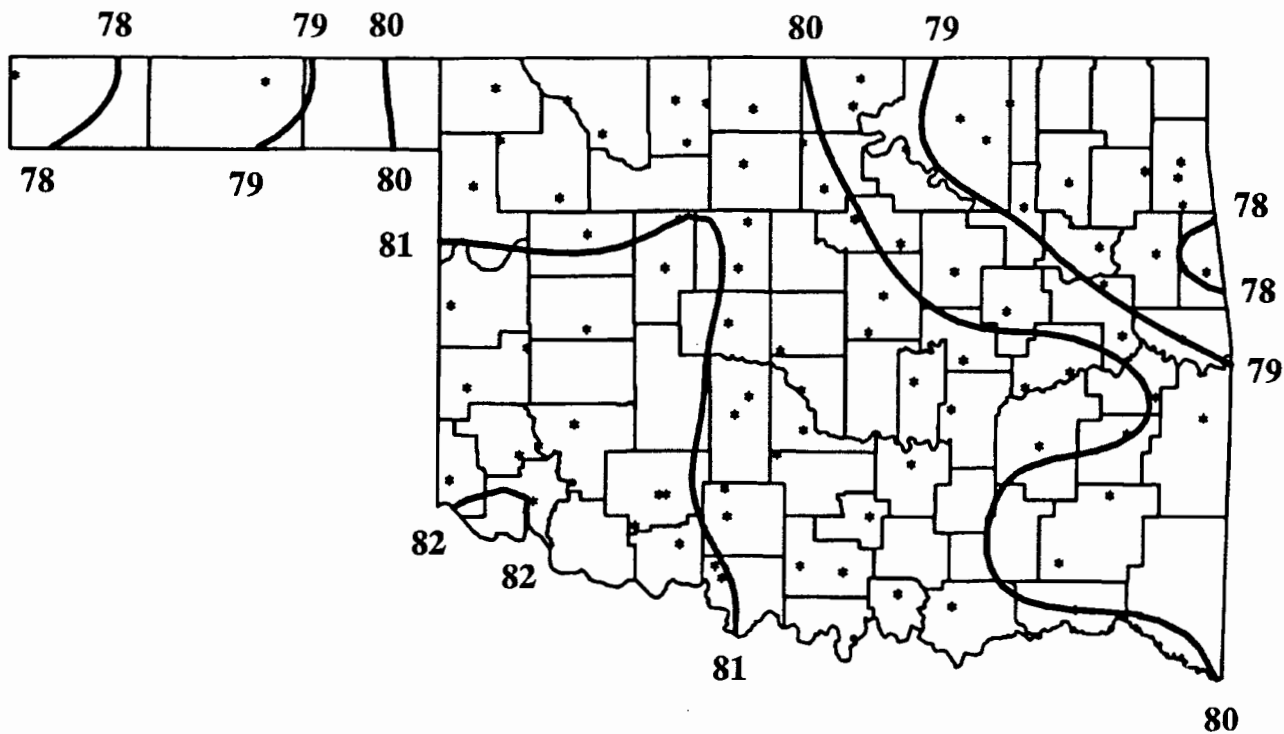
CLIMATE DIV	MEAN TEMP	NUM STA	DEV				HEAT DEGREE DAYS	DEV FROM NORM	COOL DEGREE DAYS	DEV FROM NORM	TOT PPT	NUM STA	DEV		24-HR DAY	
			FROM NORM	MAX TEMP	MIN TEMP	DAY							FROM NORM	MAX		
1	78.9	10	-1.3	107.0	18	49.0	8	.0	.0	431.3	-40.4	2.66	13	.18	1.33	17
2	80.4	14	-2.3	105.0	19	52.0	28	.0	.0	475.4	-73.4	4.36	23	1.54	3.42	13
3	78.4	16	-3.0	102.0	5	52.0	28	.0	.0	413.8	-94.9	7.49	28	4.56	3.57	21
4	81.4	10	-.9	106.0	23	53.0	29	.0	.0	510.0	-27.4	1.77	21	-.22	1.85	16
5	80.7	16	-1.7	104.0	23	54.0	28	.0	.0	485.1	-53.3	3.58	34	1.05	2.52	15
6	79.4	11	-2.3	102.0	18	53.0	27	.0	.0	443.3	-72.8	5.23	26	2.32	3.25	15
7	81.7	10	-2.1	106.0	23	55.0	28	.0	.0	514.8	-66.0	2.69	22	.69	2.37	23
8	80.6	13	-2.4	101.0	25	54.0	28	.0	.0	480.1	-76.0	5.10	30	2.77	4.20	11
9	79.3	8	-1.9	99.0	18	53.0	29	.0	.0	442.1	-57.8	7.07	19	3.53	5.09	15



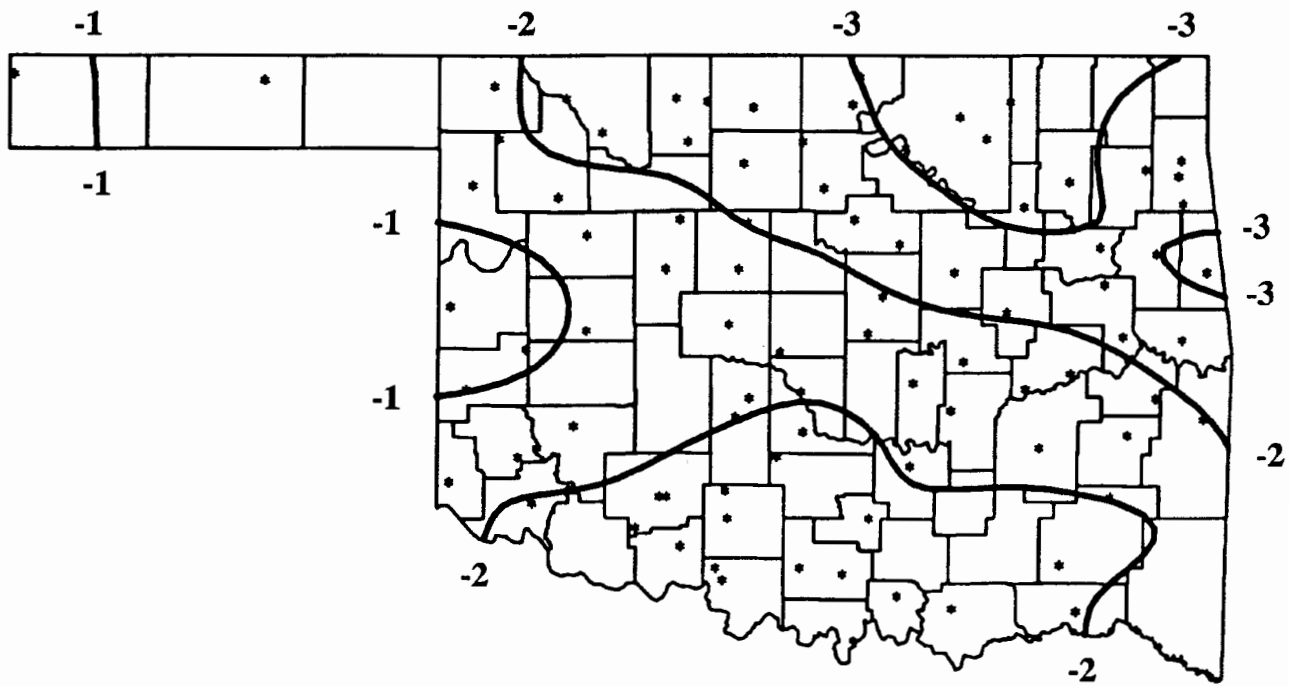
**JULY 1994 TOTAL PRECIPITATION  
(Inches)**



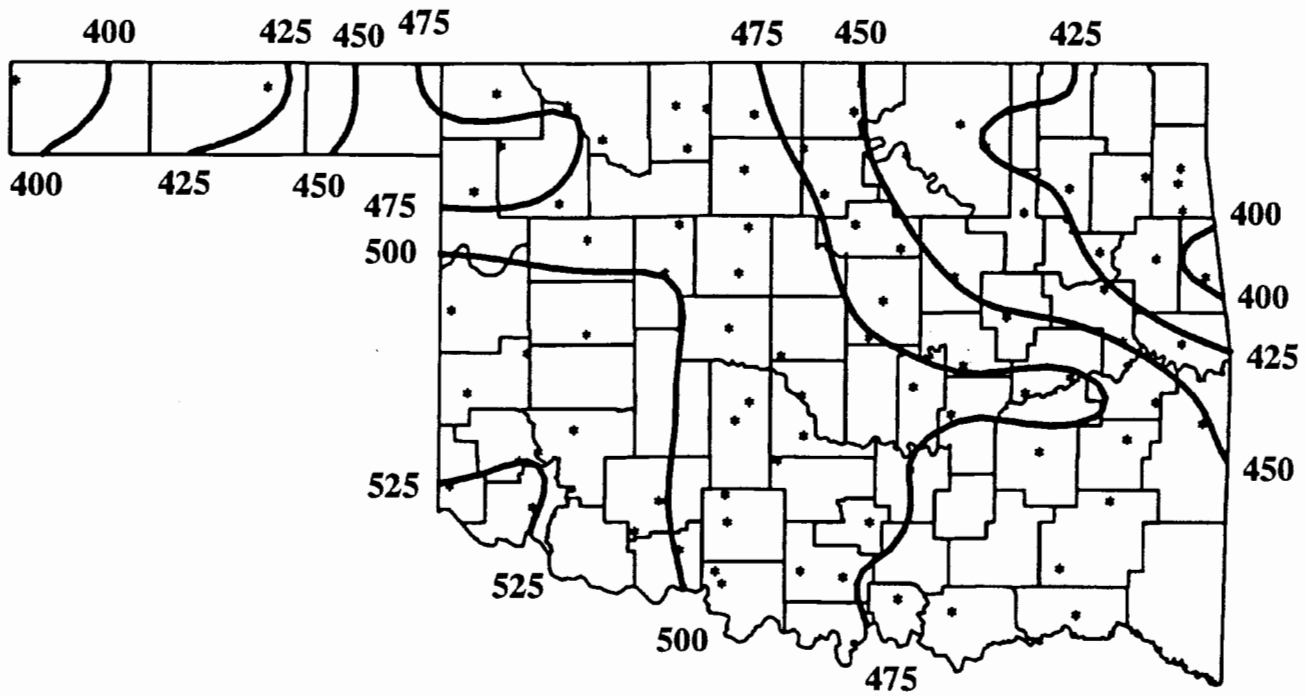
**JULY 1994 DEVIATION FROM NORMAL PRECIPITATION  
(Inches)**



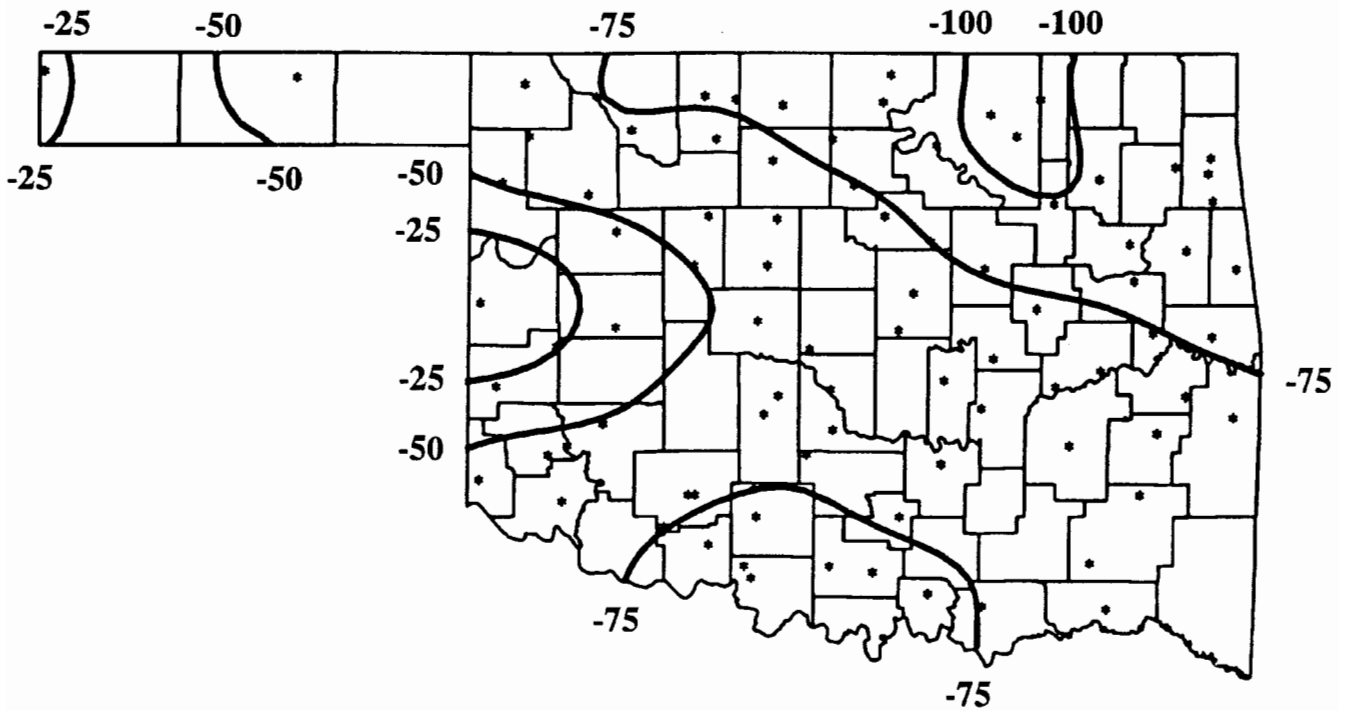
**JULY 1994 AVERAGE MONTHLY TEMPERATURES  
(Degrees F)**



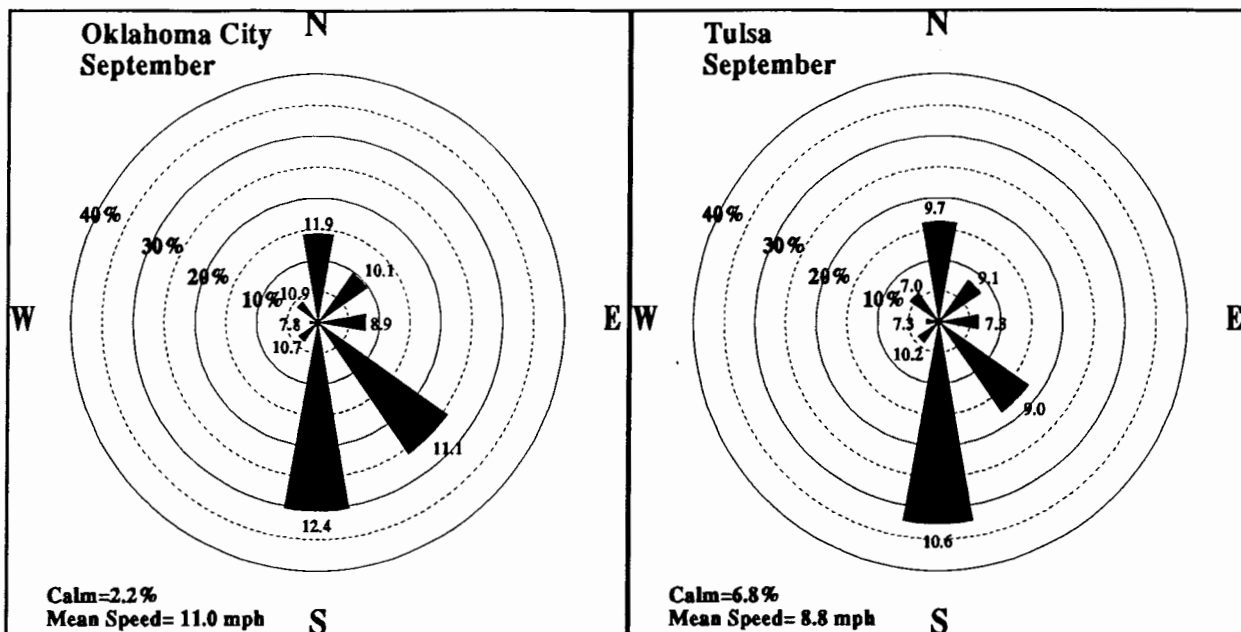
**JULY 1994 DEVIATION FROM NORMAL TEMPERATURES  
(Degrees F)**



JULY 1994 COOLING DEGREE DAYS



JULY 1994 DEVIATION FROM NORMAL COOLING DEGREE DAYS



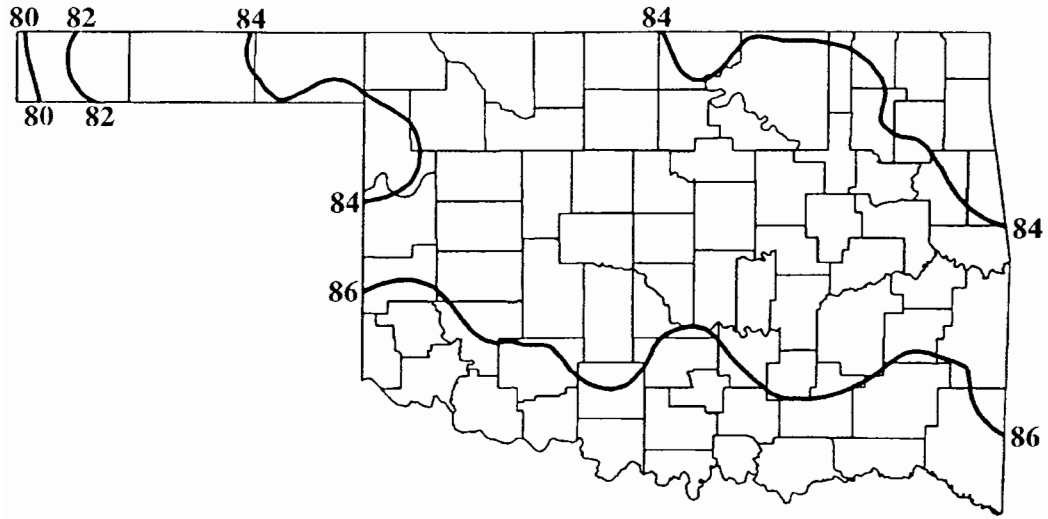
**September Wind Roses for Oklahoma City and Tulsa.** Percents represent the frequency of winds from each direction. The numbers at the ends of the bars indicate the average wind speed (miles per hour) from that direction.

**SEPTEMBER 1994 SUNRISE AND SUNSET**

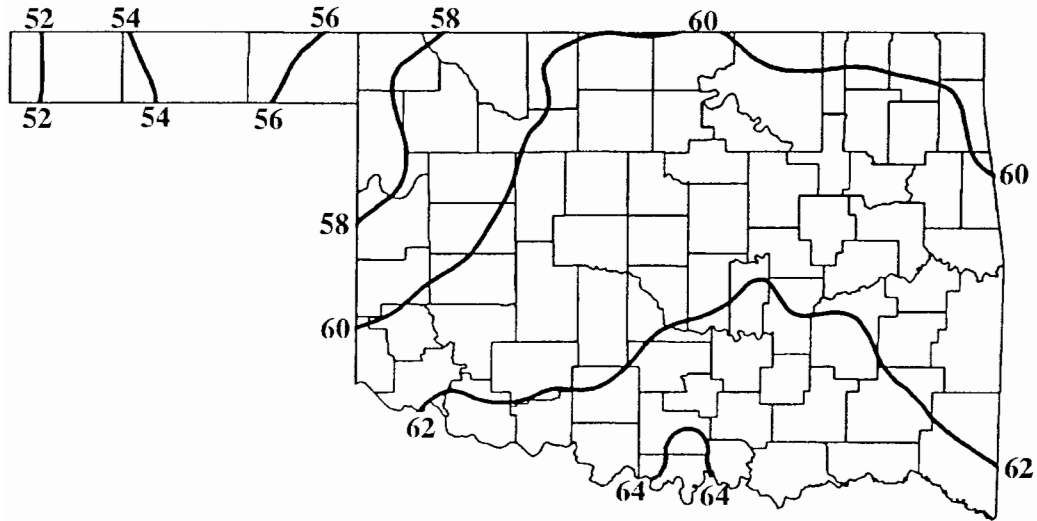
**OKLAHOMA CITY**

**TULSA**

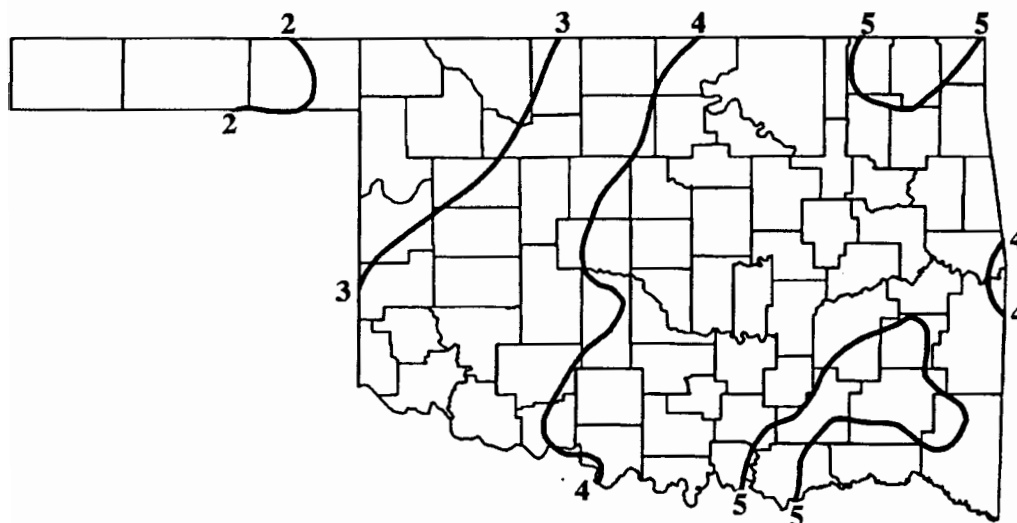
DATE	SUNRISE	SUNSET	DAYLIGHT	DATE	SUNRISE	SUNSET	DAYLIGHT
94 9 1	7: 2AM	7:59PM CDT	12 hrs 58 mins	94 9 1	6:54AM	7:53PM CDT	12 hrs 59 mins
94 9 2	7: 2AM	7:58PM CDT	12 hrs 56 mins	94 9 2	6:55AM	7:52PM CDT	12 hrs 57 mins
94 9 3	7: 3AM	7:56PM CDT	12 hrs 53 mins	94 9 3	6:56AM	7:50PM CDT	12 hrs 55 mins
94 9 4	7: 4AM	7:55PM CDT	12 hrs 51 mins	94 9 4	6:56AM	7:49PM CDT	12 hrs 53 mins
94 9 5	7: 4AM	7:54PM CDT	12 hrs 49 mins	94 9 5	6:57AM	7:48PM CDT	12 hrs 50 mins
94 9 6	7: 5AM	7:52PM CDT	12 hrs 47 mins	94 9 6	6:58AM	7:46PM CDT	12 hrs 48 mins
94 9 7	7: 6AM	7:51PM CDT	12 hrs 45 mins	94 9 7	6:59AM	7:45PM CDT	12 hrs 46 mins
94 9 8	7: 7AM	7:49PM CDT	12 hrs 43 mins	94 9 8	6:59AM	7:43PM CDT	12 hrs 44 mins
94 9 9	7: 7AM	7:48PM CDT	12 hrs 41 mins	94 9 9	7: 0AM	7:42PM CDT	12 hrs 42 mins
94 9 10	7: 8AM	7:46PM CDT	12 hrs 38 mins	94 9 10	7: 1AM	7:40PM CDT	12 hrs 39 mins
94 9 11	7: 9AM	7:45PM CDT	12 hrs 36 mins	94 9 11	7: 2AM	7:39PM CDT	12 hrs 37 mins
94 9 12	7: 9AM	7:44PM CDT	12 hrs 34 mins	94 9 12	7: 2AM	7:37PM CDT	12 hrs 35 mins
94 9 13	7:10AM	7:42PM CDT	12 hrs 32 mins	94 9 13	7: 3AM	7:36PM CDT	12 hrs 33 mins
94 9 14	7:11AM	7:41PM CDT	12 hrs 30 mins	94 9 14	7: 4AM	7:34PM CDT	12 hrs 30 mins
94 9 15	7:12AM	7:39PM CDT	12 hrs 28 mins	94 9 15	7: 5AM	7:33PM CDT	12 hrs 28 mins
94 9 16	7:12AM	7:38PM CDT	12 hrs 25 mins	94 9 16	7: 5AM	7:31PM CDT	12 hrs 26 mins
94 9 17	7:13AM	7:36PM CDT	12 hrs 23 mins	94 9 17	7: 6AM	7:30PM CDT	12 hrs 24 mins
94 9 18	7:14AM	7:35PM CDT	12 hrs 21 mins	94 9 18	7: 7AM	7:28PM CDT	12 hrs 21 mins
94 9 19	7:15AM	7:33PM CDT	12 hrs 19 mins	94 9 19	7: 8AM	7:27PM CDT	12 hrs 19 mins
94 9 20	7:15AM	7:32PM CDT	12 hrs 16 mins	94 9 20	7: 8AM	7:25PM CDT	12 hrs 17 mins
94 9 21	7:16AM	7:30PM CDT	12 hrs 14 mins	94 9 21	7: 9AM	7:24PM CDT	12 hrs 15 mins
94 9 22	7:17AM	7:29PM CDT	12 hrs 12 mins	94 9 22	7:10AM	7:22PM CDT	12 hrs 12 mins
94 9 23	7:18AM	7:27PM CDT	12 hrs 10 mins	94 9 23	7:11AM	7:21PM CDT	12 hrs 10 mins
94 9 24	7:18AM	7:26PM CDT	12 hrs 8 mins	94 9 24	7:11AM	7:19PM CDT	12 hrs 8 mins
94 9 25	7:19AM	7:24PM CDT	12 hrs 5 mins	94 9 25	7:12AM	7:18PM CDT	12 hrs 5 mins
94 9 26	7:20AM	7:23PM CDT	12 hrs 3 mins	94 9 26	7:13AM	7:16PM CDT	12 hrs 3 mins
94 9 27	7:21AM	7:21PM CDT	12 hrs 1 mins	94 9 27	7:14AM	7:15PM CDT	12 hrs 1 mins
94 9 28	7:21AM	7:20PM CDT	11 hrs 59 mins	94 9 28	7:15AM	7:13PM CDT	11 hrs 59 mins
94 9 29	7:22AM	7:19PM CDT	11 hrs 57 mins	94 9 29	7:15AM	7:12PM CDT	11 hrs 56 mins
94 9 30	7:23AM	7:17PM CDT	11 hrs 54 mins	94 9 30	7:16AM	7:10PM CDT	11 hrs 54 mins



September Normal Daily Maximum Temperatures (°F)



September Normal Daily Minimum Temperatures (°F)



**September Normal Monthly Precipitation (inches)**

**90-DAY NATIONAL WEATHER SERVICE OUTLOOK**

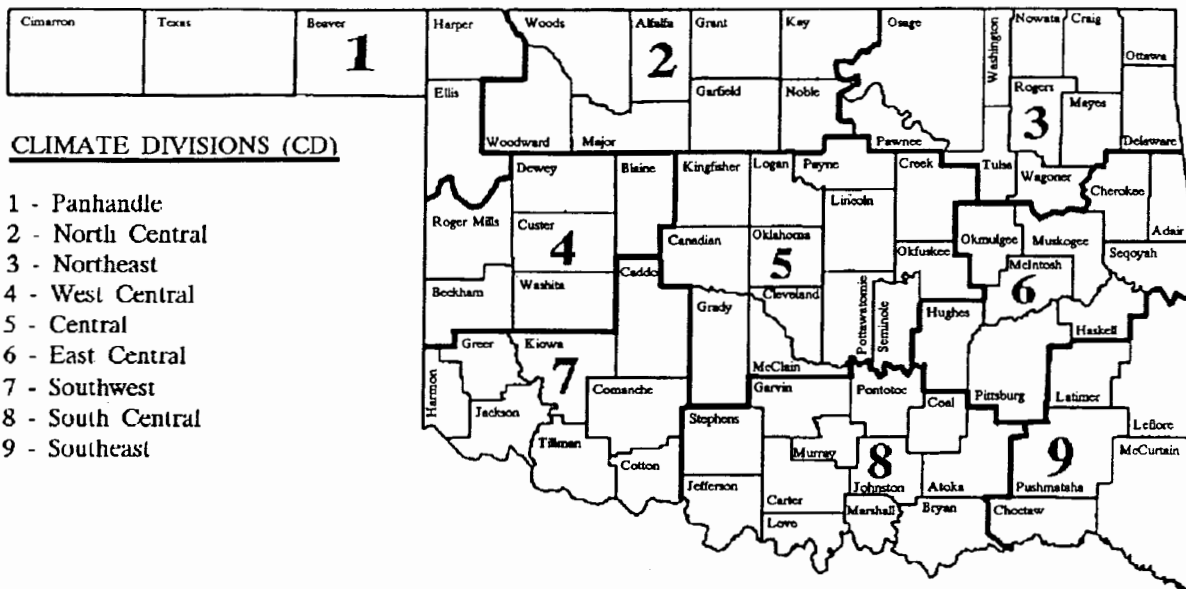
**(AUGUST 1994 - OCTOBER 1994)**

**Precipitation - Near Normal Statewide**

**Temperature - Near Normal Statewide**



# OKLAHOMA



## 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 the average temperature for the day is less than 65 degrees. Daily values are summed to arrive at a monthly total. They are a qualitative measure of how much heat was required to maintain a comfortable indoor temperature. Missing observations may result in an artificially high or low value. For February 1984 HDD would be calculated as:

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

Deviation from Normal Heating Degree Days: A positive value indicates higher than normal heating requirements for the month as a whole. A negative value indicates lower than normal heating requirements for the month as a whole. Normal HDD may be calculated by subtracting the deviation from observed HDD.

Cooling Degree Days: CDD are calculated each day of the month for which there is a temperature report and the average temperature for the day exceeds 65 degrees. Daily values are summed to give a monthly total. 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**

**September 1994**

Normal	1	Actual	Normal	2	Actual	Normal	3	Actual	Normal	4	Actual	Normal	5	Actual	Normal	6	Actual	Normal	7	Actual
89.8	max		88.5	max		89.8	max		87.0	max		88.5	max		89.2	max		88.2	max	
66.4	min		66.4	min		65.8	min		63.4	min		66.1	min		66.0	min		66.0	min	
0.15	ppt		0.12	ppt		0.25	ppt		0.04	ppt		0.05	ppt		0.03	ppt		0.07	ppt	
0	hdd		0	hdd		0	hdd		0	hdd		0	hdd		0	hdd		0	hdd	
13	cdd		13	cdd		13	cdd		10	cdd		12	cdd		13	cdd		12	cdd	
	Highest Max	105-1951		Highest Max	105-1951		Highest Max	105-1947		Highest Max	106-1947		Highest Max	105-1931		Highest Max	106-1947		Highest Max	102-1936
	Lowest Max	69-1932		Lowest Max	69-1932		Lowest Max	71-1974		Lowest Max	66-1961		Lowest Max	64-1962		Lowest Max	71-1918		Lowest Max	66-1962
	Lowest Min	53-1956		Lowest Min	52-1974		Lowest Min	47-1974		Lowest Min	46-1974		Lowest Min	47-1974		Lowest Min	51-1974		Lowest Min	49-1898
	Highest Min	80-1951		Highest Min	78-1951		Highest Min	80-1939		Highest Min	79-1970		Highest Min	77-1939		Highest Min	76-1970		Highest Min	77-1936
	Greatest ppt	2.59-1974		Greatest ppt	4.08-1991		Greatest ppt	3.16-1926		Greatest ppt	1.74-1940		Greatest ppt	1.65-1992		Greatest ppt	2.20-1995		Greatest ppt	1.37-1905
Normal	8	Actual	Normal	9	Actual	Normal	10	Actual	Normal	11	Actual	Normal	12	Actual	Normal	13	Actual	Normal	14	Actual
88.1	max		87.5	max		86.3	max		87.0	max		85.2	max		83.9	max		83.3	max	
65.0	min		64.6	min		63.6	min		63.4	min		63.3	min		61.8	min		62.1	min	
0.03	ppt		0.06	ppt		0.09	ppt		0.04	ppt		0.22	ppt		0.18	ppt		0.20	ppt	
0	hdd		0	hdd		0	hdd		0	hdd		0	hdd		1	hdd		1	hdd	
12	cdd		11	cdd		10	cdd		10	cdd		10	cdd		9	cdd		9	cdd	
	Highest Max	101-1922		Highest Max	99-1970		Highest Max	101-1936		Highest Max	100-1909		Highest Max	102-1930		Highest Max	102-1965		Highest Max	102-1965
	Lowest Max	73-1993		Lowest Max	67-1929		Lowest Max	64-1929		Lowest Max	80-1998		Lowest Max	64-1989		Lowest Max	53-1989		Lowest Max	58-1975
	Lowest Min	48-1957		Lowest Min	51-1952		Lowest Min	47-1962		Lowest Min	48-1940		Lowest Min	45-1898		Lowest Min	45-1902		Lowest Min	47-1993
	Highest Min	80-1896		Highest Min	77-1996		Highest Min	77-1938		Highest Min	78-1978		Highest Min	78-1930		Highest Min	78-1978		Highest Min	77-1965
	Greatest ppt	3.27-1993		Greatest ppt	1.88-1891		Greatest ppt	2.40-1925		Greatest ppt	2.36-1906		Greatest ppt	3.03-1961		Greatest ppt	1.88-1985		Greatest ppt	3.61-1957
Normal	15	Actual	Normal	16	Actual	Normal	17	Actual	Normal	18	Actual	Normal	19	Actual	Normal	20	Actual	Normal	21	Actual
83.2	max		83.6	max		82.3	max		84.5	max		83.9	max		83.8	max		81.6	max	
62.5	min		62.2	min		62.2	min		62.0	min		62.5	min		61.1	min		60.7	min	
0.12	ppt		0.12	ppt		0.14	ppt		0.09	ppt		0.07	ppt		0.17	ppt		0.14	ppt	
1	hdd		1	hdd		1	hdd		1	hdd		0	hdd		1	hdd		1	hdd	
9	cdd		8	cdd		8	cdd		9	cdd		9	cdd		8	cdd		7	cdd	
	Highest Max	100-1965		Highest Max	101-1978		Highest Max	99-1972		Highest Max	99-1952		Highest Max	98-1954		Highest Max	100-1954		Highest Max	97-1980
	Lowest Max	57-1903		Lowest Max	59-1903		Lowest Max	58-1973		Lowest Max	53-1971		Lowest Max	56-1971		Lowest Max	52-1899		Lowest Max	61-1934
	Lowest Min	44-1993		Lowest Min	44-1993		Lowest Min	44-1903		Lowest Min	42-1981		Lowest Min	44-1971		Lowest Min	41-1971		Lowest Min	39-1983
	Highest Min	76-1956		Highest Min	76-1955		Highest Min	78-1978		Highest Min	78-1978		Highest Min	76-1978		Highest Min	76-1954		Highest Min	76-1931
	Greatest ppt	2.35-1925		Greatest ppt	1.97-1991		Greatest ppt	1.42-1936		Greatest ppt	3.10-1923		Greatest ppt	1.81-1942		Greatest ppt	3.82-1990		Greatest ppt	2.04-1990
Normal	22	Actual	Normal	23	Actual	Normal	24	Actual	Normal	25	Actual	Normal	26	Actual	Normal	27	Actual	Normal	28	Actual
82.3	max		81.1	max		80.4	max		80.9	max		80.3	max		80.5	max		80.0	max	
59.8	min		59.0	min		58.3	min		58.7	min		58.2	min		58.5	min		58.0	min	
0.27	ppt		0.06	ppt		0.17	ppt		0.06	ppt		0.15	ppt		0.11	ppt		0.05	ppt	
1	hdd		1	hdd		2	hdd		1	hdd		1	hdd		2	hdd		2	hdd	
7	cdd		6	cdd		6	cdd		6	cdd		5	cdd		6	cdd		6	cdd	
	Highest Max	96-1956		Highest Max	97-1931		Highest Max	98-1939		Highest Max	97-1939		Highest Max	98-1977		Highest Max	96-1953		Highest Max	104-1953
	Lowest Max	52-1915		Lowest Max	55-1925		Lowest Max	56-1974		Lowest Max	53-1926		Lowest Max	46-1926		Lowest Max	47-1927		Lowest Max	53-1984
	Lowest Min	45-1975		Lowest Min	40-1895		Lowest Min	36-1989		Lowest Min	41-1989		Lowest Min	35-1912		Lowest Min	38-1942		Lowest Min	37-1896
	Highest Min	76-1931		Highest Min	75-1931		Highest Min	74-1958		Highest Min	74-1933		Highest Min	72-1923		Highest Min	72-1923		Highest Min	73-1977
	Greatest ppt	7.53-1970		Greatest ppt	1.47-1988		Greatest ppt	3.87-1959		Greatest ppt	1.41-1893		Greatest ppt	1.74-1973		Greatest ppt	1.75-1936		Greatest ppt	2.88-1945
Normal	29	Actual	Normal	30	Actual	Normal	30	Actual	Normal	30	Actual	Normal	30	Actual	Normal	30	Actual	Normal	30	Actual
79.8	max		79.2	max		79.2	max		79.2	max		79.2	max		79.2	max		79.2	max	
56.9	min		55.1	min		55.1	min		55.1	min		55.1	min		55.1	min		55.1	min	
0.10	ppt		0.09	ppt		0.09	ppt		0.09	ppt		0.09	ppt		0.09	ppt		0.09	ppt	
2	hdd		2	hdd		2	hdd		2	hdd		2	hdd		2	hdd		2	hdd	
5	cdd		5	cdd		5	cdd		5	cdd		5	cdd		5	cdd		5	cdd	
	Highest Max	98-1953		Highest Max	100-1977		Highest Max	100-1977		Highest Max	100-1977		Highest Max	100-1977		Highest Max	96-1953		Highest Max	104-1953
	Lowest Max	47-1945		Lowest Max	54-1985		Lowest Max	54-1985		Lowest Max	54-1985		Lowest Max	54-1985		Lowest Max	47-1927		Lowest Max	53-1984
	Lowest Min	39-1916		Lowest Min	36-1995		Lowest Min	36-1995		Lowest Min	36-1989		Lowest Min	35-1912		Lowest Min	38-1942		Lowest Min	37-1896
	Highest Min	71-1933		Highest Min	72-1977		Highest Min	72-1977		Highest Min	71-1933		Highest Min	72-1923		Highest Min	72-1923		Highest Min	73-1977
	Greatest ppt	2.90-1995		Greatest ppt	1.79-1985		Greatest ppt	1.79-1985		Greatest ppt	1.79-1985		Greatest ppt	1.74-1973		Greatest ppt	1.75-1936		Greatest ppt	2.88-1945

**SEPTEMBER AVERAGES**

TEMPERATURE : 73.2°F  
 PRECIPITATION : 3.47"  
 HEATING DEGREE DAYS : 22  
 COOLING DEGREE DAYS : 270

The data on this calendar are for Tulsa. Normal values are calculated for the period 1948-1992. Temperature extremes are for the period 1905-1993; precipitation extremes are for the period 1948-1993.

**TULSA CLIMATE CALENDAR**

**September 1994**

Normal 1		Actual		Normal 2		Actual		Normal 3		Actual		Normal 4		Actual		Normal 5		Actual		Normal 6		Actual		Normal 7		Actual		
90.0	max			89.0	max			89.0	max			89.0	max			88.0	max			89.0	max			87.0	max			
67.0	min			67.0	min			67.0	min			67.0	min			67.0	min			67.0	min			67.0	min			
.16	ppt			.18	ppt			.19	ppt			.22	ppt			.10	ppt			.16	ppt			.06	ppt			
0	hdd			0	hdd			0	hdd			0	hdd			0	hdd			0	hdd			0	hdd			
14	cdd			13	cdd			14	cdd			14	cdd			13	cdd			13	cdd			12	cdd			
	Highest Max	105-1985			Highest Max	109-1939			Highest Max	109-1939				Highest Max	107-1947				Highest Max	107-1913					Highest Max	106-1936		
	Lowest Max	77-1974			Lowest Max	68-1974			Lowest Max	70-1974				Lowest Max	66-1967				Lowest Max	70-1962					Lowest Max	69-1962		
	Lowest Min	48-1957			Lowest Min	51-1974			Lowest Min	47-1934				Lowest Min	46-1974				Lowest Min	49-1974					Lowest Min	52-1974		
	Highest Min	78-1982			Highest Min	78-1985			Highest Min	76-1963				Highest Min	78-1983				Highest Min	79-1985					Highest Min	80-1990		
	Greatest ppt	2.24-1974			Greatest ppt	2.06-1974			Greatest ppt	3.27-1962				Greatest ppt	2.80-1971				Greatest ppt	1.16-1977					Greatest ppt	4.05-1971		
	Normal 8				Normal 9				Normal 10				Normal 11				Normal 12				Normal 13				Normal 14			
88.0	max			88.0	max			87.0	max			87.0	max			86.0	max			86.0	max			84.0	max			
66.0	min			65.0	min			64.0	min			64.0	min			63.0	min			62.0	min			62.0	min			
.07	ppt			.13	ppt			.03	ppt			.14	ppt			.15	ppt			.16	ppt			.25	ppt			
0	hdd			0	hdd			0	hdd			0	hdd			0	hdd			0	hdd			1	hdd			
12	cdd			12	cdd			10	cdd			10	cdd			10	cdd			9	cdd			10	cdd			
	Highest Max	103-1925			Highest Max	102-1909			Highest Max	105-1936				Highest Max	103-1909				Highest Max	102-1930					Highest Max	103-1965		
	Lowest Max	72-1993			Lowest Max	77-1962			Lowest Max	75-1999				Lowest Max	74-1957				Lowest Max	68-1989					Lowest Max	55-1989		
	Lowest Min	50-1955			Lowest Min	51-1943			Lowest Min	48-1958				Lowest Min	45-1940				Lowest Min	48-1959					Lowest Min	49-1960		
	Highest Min	78-1983			Highest Min	76-1991			Highest Min	75-1991				Highest Min	77-1983				Highest Min	77-1991					Highest Min	77-1978		
	Greatest ppt	1.45-1984			Greatest ppt	2.67-1951			Greatest ppt	.74-1958				Greatest ppt	1.88-1977				Greatest ppt	1.75-1988					Greatest ppt	2.45-1993		
	Normal 15				Normal 16				Normal 17				Normal 18				Normal 19				Normal 20				Normal 21			
83.0	max			84.0	max			83.0	max			85.0	max			85.0	max			85.0	max			82.0	max			
62.0	min			63.0	min			63.0	min			62.0	min			62.0	min			62.0	min			61.0	min			
.25	ppt			.25	ppt			.09	ppt			.11	ppt			.20	ppt			.07	ppt			.07	ppt			
1	hdd			0	hdd			1	hdd			1	hdd			0	hdd			0	hdd			1	hdd			
8	cdd			9	cdd			9	cdd			9	cdd			10	cdd			9	cdd			8	cdd			
	Highest Max	103-1956			Highest Max	103-1956			Highest Max	101-1931				Highest Max	100-1952				Highest Max	100-1954					Highest Max	102-1954		
	Lowest Max	60-1949			Lowest Max	67-1966			Lowest Max	61-1971				Lowest Max	58-1971				Lowest Max	58-1971					Lowest Max	62-1975		
	Lowest Min	42-1993			Lowest Min	44-1993			Lowest Min	44-1981				Lowest Min	42-1981				Lowest Min	45-1991					Lowest Min	38-1918		
	Highest Min	79-1956			Highest Min	77-1956			Highest Min	79-1978				Highest Min	80-1978				Highest Min	79-1954					Highest Min	76-1964		
	Greatest ppt	2.87-1962			Greatest ppt	5.78-1971			Greatest ppt	1.32-1971				Greatest ppt	2.39-1971				Greatest ppt	4.30-1974					Greatest ppt	1.05-1990		
	Normal 22				Normal 23				Normal 24				Normal 25				Normal 26				Normal 27				Normal 28			
82.0	max			82.0	max			81.0	max			81.0	max			82.0	max			80.0	max			80.0	max			
59.0	min			59.0	min			60.0	min			60.0	min			59.0	min			59.0	min			58.0	min			
.16	ppt			.13	ppt			.14	ppt			.11	ppt			.14	ppt			.10	ppt			.03	ppt			
1	hdd			1	hdd			1	hdd			1	hdd			1	hdd			1	hdd			2	hdd			
7	cdd			6	cdd			6	cdd			6	cdd			7	cdd			6	cdd			6	cdd			
	Highest Max	99-1921			Highest Max	101-1931			Highest Max	99-1931				Highest Max	99-1939				Highest Max	96-1954					Highest Max	102-1953		
	Lowest Max	61-1989			Lowest Max	63-1974			Lowest Max	58-1974				Lowest Max	66-1962				Lowest Max	57-1984					Lowest Max	54-1984		
	Lowest Min	44-1918			Lowest Min	44-1989			Lowest Min	37-1989				Lowest Min	43-1926				Lowest Min	37-1912					Lowest Min	35-1942		
	Highest Min	73-1993			Highest Min	79-1986			Highest Min	76-1958				Highest Min	76-1986				Highest Min	73-1991					Highest Min	73-1977		
	Greatest ppt	3.78-1970			Greatest ppt	1.90-1968			Greatest ppt	1.84-1959				Greatest ppt	2.07-1959				Greatest ppt	1.70-1973					Greatest ppt	1.09-1961		
	Normal 29				Normal 30				Normal 30				Normal 30				Normal 30				Normal 30				Normal 30			
80.0	max			79.0	max			79.0	max			79.0	max			79.0	max			79.0	max			80.0	max			
57.0	min			55.0	min			55.0	min			55.0	min			55.0	min			55.0	min			58.0	min			
.16	ppt			.09	ppt			.09	ppt			.09	ppt			.09	ppt			.09	ppt			.03	ppt			
2	hdd			2	hdd			2	hdd			2	hdd			2	hdd			2	hdd			2	hdd			
6	cdd			5	cdd			5	cdd			5	cdd			6	cdd			5	cdd			6	cdd			
	Highest Max	98-1953			Highest Max	99-1979			Highest Max	99-1931				Highest Max	99-1939				Highest Max	96-1954					Highest Max	102-1953		
	Lowest Max	57-1984			Lowest Max	56-1959			Lowest Max	58-1974				Lowest Max	66-1962				Lowest Max	57-1984					Lowest Max	54-1984		
	Lowest Min	37-1916			Lowest Min	35-1984			Lowest Min	37-1989				Lowest Min	43-1926				Lowest Min	37-1912					Lowest Min	35-1942		
	Highest Min	73-1955			Highest Min	72-1977			Highest Min	76-1958				Highest Min	76-1986				Highest Min	73-1991					Highest Min	73-1977		
	Greatest ppt	4.45-1986			Greatest ppt	1.85-1959			Greatest ppt	1.84-1959				Greatest ppt	2.07-1959				Greatest ppt	1.70-1973					Greatest ppt	1.09-1961		

**SEPTEMBER AVERAGES**

TEMPERATURE : 73.6°F  
 PRECIPITATION : 4.10"  
 HEATING DEGREE DAYS : 17  
 COOLING DEGREE DAYS : 283