

OKLAHOMA MONTHLY SUMMARY NOVEMBER 1994

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MONTHLY SUMMARY FOR NOVEMBER 1994

Oklahoma experienced the wettest November in its recorded history in 1994. At least 21 stations, most of them in the eastern half of the state, established new monthly records with only four reporting stations in northwestern Oklahoma receiving below normal precipitation, according to preliminary data and records available at the Oklahoma Climatological Survey. The month's statewide average precipitation of 5.73 inches, 3.31 inches greater than normal, exceeded the previous record, set in 1909, by .01 inch. Year-to-date precipitation for the state is 35.16 inches, 2.58 inches above normal. Autumn precipitation totaled 11.49 inches, exceeding normal by 2.06 inches.

The average temperature for the month was 50.9 degrees, 1.1 degrees above normal. The year-to-date temperature is a normal 62.2 degrees. Autumn temperatures averaged 61.8 degrees, .2 degree greater than normal. Although the monthly average temperatures at a few stations in western Oklahoma were slightly below normal, average temperatures for each section of the state were greater than normal.

Waves developing along a cold front moving slowly through the state led to the development of heavy thunderstorms in eastern Oklahoma and widespread rain elsewhere from the 3rd through the 5th. Seventy-mile-per-hour winds were reported at Warner (Muskogee County) and large hail was reported in several counties of northeastern Oklahoma. Numerous roads were flooded in Sequoyah, LeFlore, Latimer and Haskell counties. McCurtain (Haskell County) reported 8.93 inches of rain over the three day period. Wilburton received 8.09 inches of rain over the same period and 7.63 inches was reported at Heavener. Most areas in east central Oklahoma received more than 5 inches.

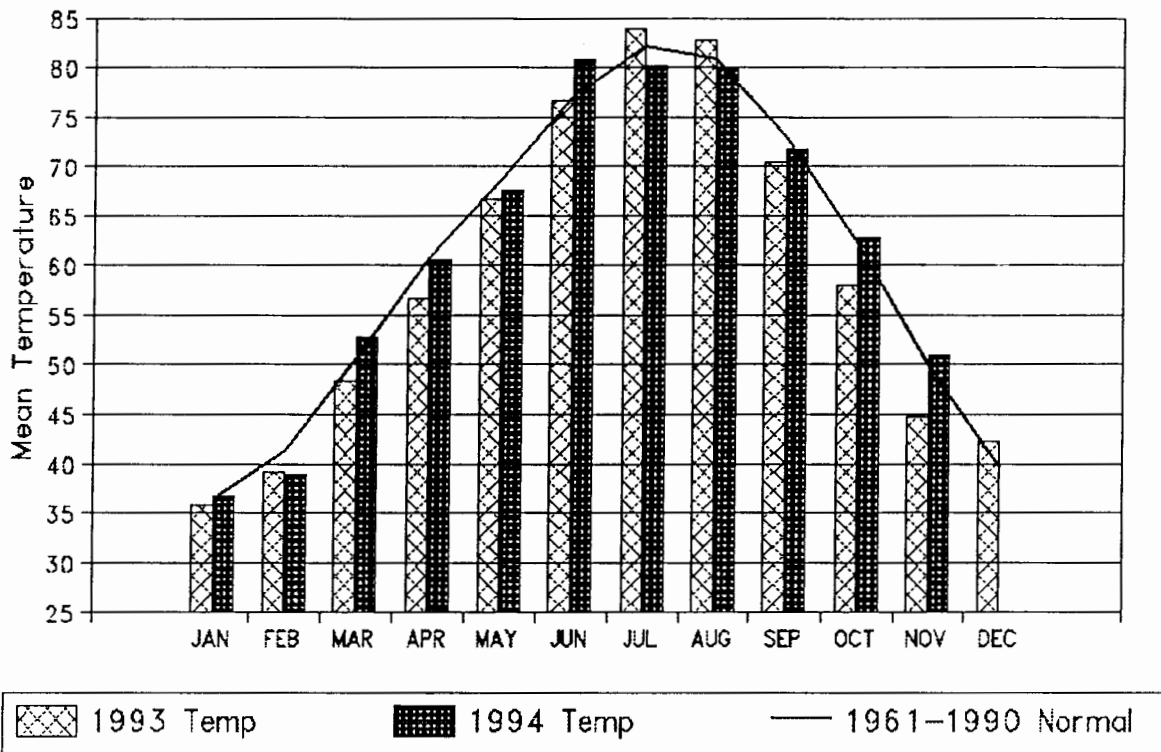
A rapidly moving cold front produced locally heavy rains on the evening of the 8th and the morning of the 9th. Flooding of streets and county roads was reported in LeFlore County at Pocola and Panama. Large hail was reported near Eldorado (Jackson), Roosevelt (Kiowa) and New Alluwe (Nowata). Another system on the 13th brought two-day precipitation totals of 5.12 inches at Bengal (Latimer), 4.99 inches at Tuskahoma (Pushmataha) and 4.07 inches at Boswell (Choctaw).

A very strong low pressure system developed in southwestern Kansas on the 19th and moved eastward along Oklahoma's northern border on the 20th. The heaviest rains fell in central and southwestern Oklahoma. Geary (Blaine) reported a two-day total precipitation of 6.08 inches. The Wichita Mountains Wildlife Refuge (Comanche) received 5.58 inches, Lookeba (Caddo) noted 5.53 inches, Kingfisher (Kingfisher County) received 5.25 inches and Colony (Custer) reported 5.21 inches. Very strong west to southwest winds swept across the state on the 20th after the precipitation ended. Twenty-two stations of the Oklahoma Mesonet (20 percent of the network stations), all in the western half of the state, recorded average wind speeds greater than 20 miles per hour for the day. Winds at the Weatherford (Custer) site averaged 24 miles per hour with a peak recorded gust of 64 miles per hour. Stations at Shawnee (Pottawatomie), El Reno (Canadian) and Hinton (Caddo) also recorded gusts of 60 miles per hour or greater. Power poles and 6 to 12 inch diameter tree limbs were blown down in Creek County (Depew and Bristow, respectively). A roof was blown off an outbuilding at Muldrow (Sequoyah).

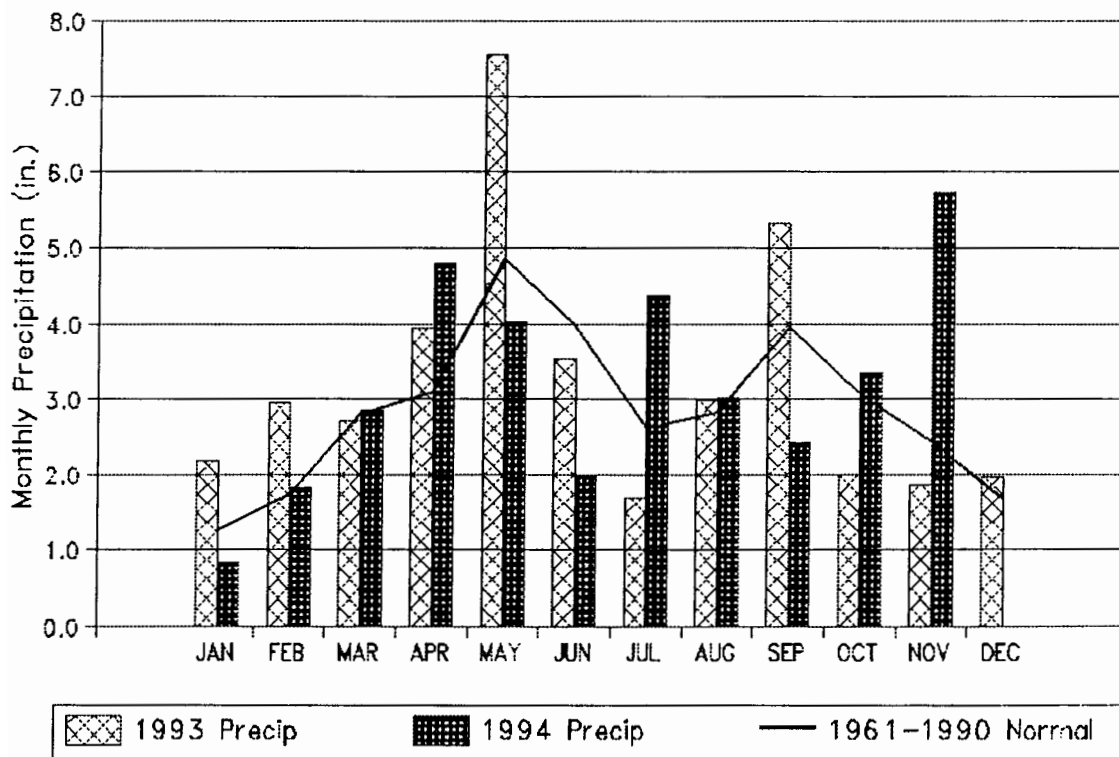
Temperatures reached their lowest values near the end of the month as several stations in northwestern Oklahoma reported low temperatures in the teens. Freedom (Woods) and Kenton (Cimarron) each reported temperatures less than 15 degrees on the 28th and Freedom reported 12 degrees on the 30th, the state's low for the month.

Howard L. Johnson

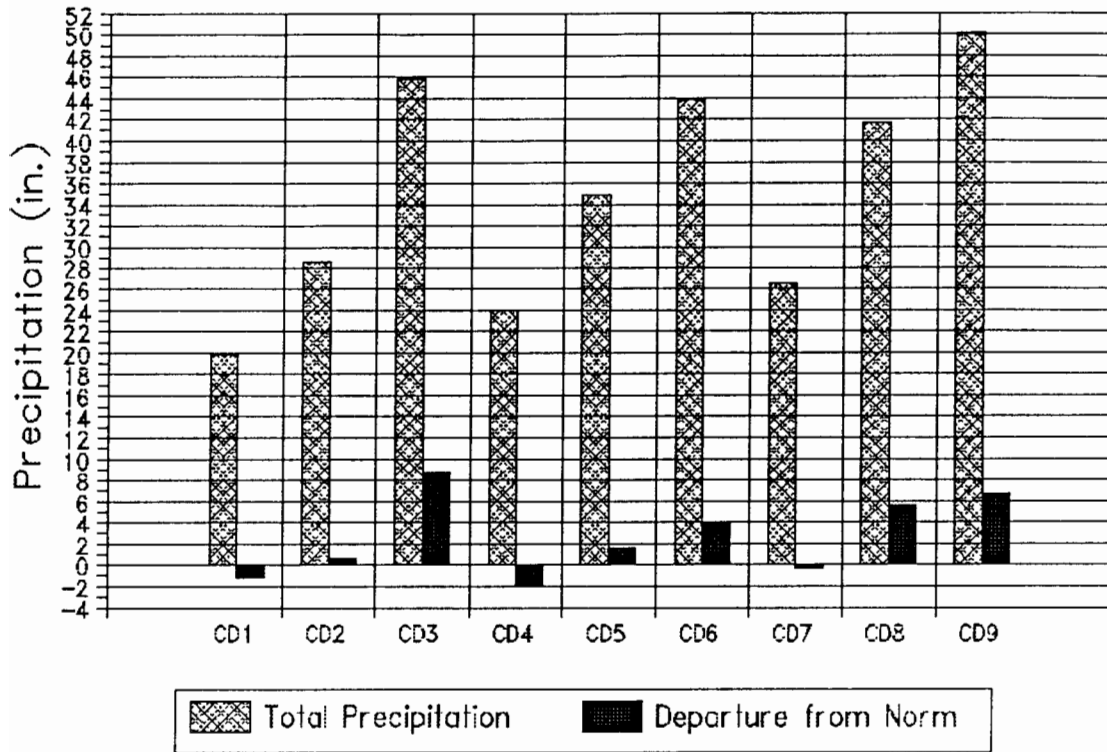
1993 and 1994 STATEWIDE TEMPERATURES Monthly Averages



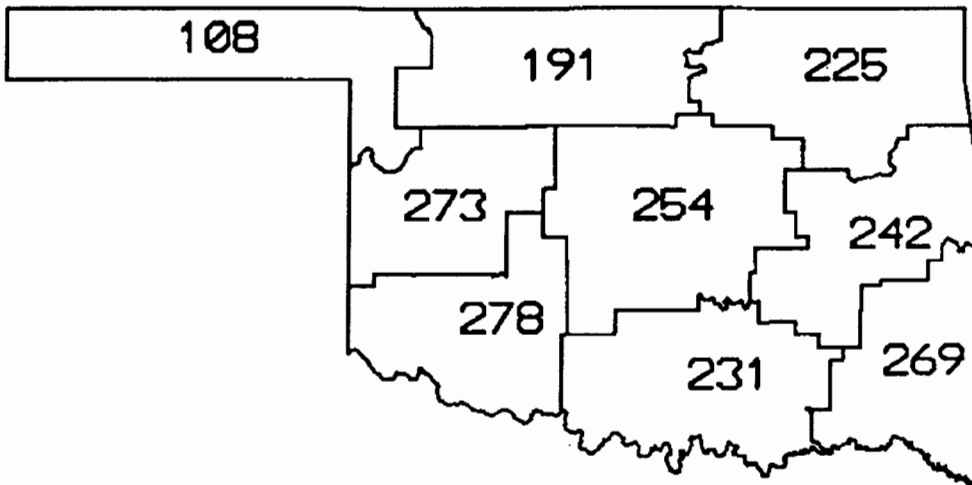
1993 and 1994 STATEWIDE PRECIPITATION Monthly Totals



CD Averaged Precipitation January through November 1994



CD PERCENT OF NORMAL PRECIPITATION



NOVEMBER 1994

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

CD	MAX			MIN			24-HOUR			MONTHLY	
	TEMP	DATE	LOCATION	TEMP	DATE	LOCATION	PRECIP	DATE	LOCATION	PRECIP	LOCATION
1	87	2	KENTON	14	29	KENTON	1.75	20	BEAVER	1.93	FARGO
2	82	8	FREEDOM	12	30	FREEDOM	4.34	20	ENID	5.20	HARDY
3	85	3	MANNFORD	19	30	HULAH DAM	4.80	5	KANSAS	9.42	SPAVINAW
4	87	2	REYDON	18	16	HAMMON	5.30	20	GEARY	7.06	GEARY
5	85	3	OKEMAH	20	30	PURCELL	5.10	20	KINGFISHER	9.35	OKEMAH
6	83	3	HOLDENVILLE	21	30	STILWELL	5.37	5	TAHLEQUAH	14.93	MCCURTAIN
7	86	4	ALTUS DAM	21	18	ANADARKO	4.95	20	WICHITA MT W	7.31	WICHITA MT W
	86	3	HOLLIS	21	30	WICHITA MT W					
8	86	3	MARLOW	21	30	PAULS VALLEY	4.60	6	PAULS VALLEY	9.88	DAISY
	86	3	WAURIKA								
9	83	4	IDABEL	19	30	SMITHVILLE	4.68	5	HEAVENER	15.46	WILBURTON
	83	4	PINE CREEK D								

TABLE OF 1993/1994 COMPARISONS

Station	NOVEMBER Temperature (°F)		NOVEMBER Precipitation (in.)	
	1993	1994	1993	1994
Arnett	39.8	44.7	0.72	1.79
Enid	44.7	49.5	1.26	4.81
Mutual	40.8	45.2	0.23	2.74
Tulsa	45.0	52.4	1.63	7.06
Elk City	45.2	50.2	0.56	4.46
Oklahoma City	44.2	50.0	1.34	5.72
McAlester	47.9	54.6	3.34	7.88
Altus Irr Sta	47.5	52.4	1.02	5.13
Durant	45.8	54.3	4.06	6.35
Ada	45.8	51.6	2.19	6.46
Hugo	48.6	55.9	3.14	6.71

EXTREMES

Variable	Station	Division	Observation	Date
Minimum temperature (°F)	Freedom	2	12	30
Maximum temperature (°F)	Kenton	1	87	2
	Reydon	4	87	2
Maximum 24-hour precipitation	Tahlequah	6	5.37"	5

NOVEMBER 1994 SUMMARY FOR NORTHWEST DIVISION (CD1)

NAME	ID	CD	DEV				MIN		HEAT		DEV		COOL		DEV		TOT	NUM	DEV	MAX	DAY
			MEAN	NUM	FROM	MAX	TEMP	DAY	DEG	FROM	DEG	FROM	DEG	FROM	PPT	OBS					
ARNETT	332	1	44.7	30	-1.0	80.	3	22.	28	609.0	30.0	.0	.0	1.791	30	.36	1.32	20			
BEAVER	593	1	43.8	30	-.4	83.	3	16.	30	635.5	11.5	.0	.0	1.770	30	.75	1.75	20			
BOISE CITY 2 E	908	1	43.0	30	-1.7	82.	2	16.	28	660.0	51.0	.0	.0	.383	30	-.34	.17	12			
BUFFALO	1243	1	48.3	30	1.2	80.	2	19.	28	501.0	-36.0	.0	.0	1.090	30	-.53	.70	19			
FARGO	3070	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.930	30	.63	1.56	20			
GAGE FAA APT	3407	1	47.1	30	.3	82.	2	16.	28	538.0	-8.0	1.0	1.0	1.671	30	.60	1.19	19			
GATE	3489	1	46.3	30	.8	81.	3	21.	28	561.5	-23.5	.0	.0	1.292	30	.19	1.29	20			
GOODWELL RES ST	3628	1	44.8	30	1.0	85.	3	18.	28	605.5	-30.5	.0	.0	.510	30	-.22	.26	20			
GUYMON	3835	1	43.8	24	*****	84.	2	17.	28	511.0	*****	1.5	*****	.012	29	*****	.01	9			
HOOKER	4298	1	44.2	30	-.4	84.	3	17.	28	625.5	13.5	.0	.0	.431	30	-.35	.31	20			
KENTON	4766	1	43.3	27	*****	87.	2	14.	29	588.0	*****	2.5	*****	.782	30	.17	.33	21			
LAVERNE	5045	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.910	30	-.26	.82	20			
REGNIER	7534	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.463	30	-.10	.26	20			
TURPIN 4 SSE	9017	1	42.5	30	*****	80.	3	16.	28	675.0	*****	.0	*****	.830	30	*****	.75	20			

NOVEMBER 1994 SUMMARY FOR NORTH CENTRAL DIVISION (CD2)

NAME	ID	CD	DEV				MIN		HEAT		DEV		COOL		DEV		TOT	NUM	DEV	MAX	DAY
			MEAN	NUM	FROM	MAX	TEMP	DAY	DEG	FROM	DEG	FROM	DEG	FROM	PPT	OBS					
ALVA	193	2	48.0	30	*****	76.	8	22.	28	509.5	*****	.0	*****	2.940	30	*****	2.77	20			
VANCE AFB	302	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.015	29	*****	2.76	20			
BILLINGS	755	2	48.4	30	1.0	74.	9	25.	30	498.0	-30.0	.0	.0	3.733	30	1.46	2.95	20			
BLACKWELL 2E	818	2	51.9	29	4.3	81.	4	29.	30	381.0	-141.0	.5	.5	4.021	30	1.74	2.95	20			
BRAMAN	1075	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.861	30	*****	3.95	20			
CEDARDALE	1620	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.861	28	*****	2.49	20			
CHEROKEE	1724	2	48.2	30	.3	74.	8	23.	30	504.5	-8.5	1.0	1.0	3.610	30	2.09	2.15	20			
ENID	2912	2	49.5	30	.9	72.	8	27.	28	465.0	-27.0	.0	.0	4.810	30	2.60	4.34	20			
FT SUPPLY DAM	3304	2	45.3	30	-.2	80.	3	21.	28	590.0	5.0	.0	.0	1.210	30	-.05	.89	20			
FREEDOM	3358	2	44.6	30	-2.4	82.	8	12.	30	612.0	72.0	.0	.0	1.702	30	.35	1.46	20			
GREAT SALT PLNS	3740	2	47.7	30	.9	74.	9	26.	30	518.0	-28.0	.0	.0	2.951	30	1.12	2.63	20			
HARDY	3909	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.203	30	*****	3.90	19			
HELENA 1 SSE	4019	2	46.6	30	.6	71.	9	25.	29	551.0	-19.0	.0	.0	3.442	30	1.63	3.15	20			
JEFFERSON	4573	2	49.1	30	1.1	75.	8	23.	28	478.5	-31.5	.5	.5	3.751	30	1.57	3.28	19			
LAMONT	5013	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.441	30	*****	3.77	20			
MEDFORD	5768	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.200	30	*****	3.62	19			
MUTUAL	6139	2	45.2	30	-1.0	77.	9	23.	28	593.0	29.0	.0	.0	2.740	30	1.34	2.25	20			
NEWKIRK	6278	2	49.6	30	1.6	74.	8	26.	23	463.0	-47.0	1.0	1.0	3.961	30	1.55	2.45	20			
ORIENTA	6751	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.290	30	1.57	2.95	20			
PERRY	7012	2	51.7	30	2.1	81.	3	26.	29	410.0	-52.0	11.5	11.5	4.250	30	2.13	2.00	20			
PONCA CITY FAA	7201	2	51.0	30	3.7	77.	8	26.	30	429.0	-102.0	8.5	8.5	3.723	30	1.46	1.87	20			
RED ROCK 1 NNE	7505	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.720	30	2.63	2.85	20			
WAYNOKA	9404	2	47.9	30	-.1	78.	8	19.	28	513.5	3.5	.0	.0	2.730	30	1.20	2.43	20			
WOODWARD	9760	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.563	30	.19	.75	20			

NOVEMBER 1994 SUMMARY FOR NORTHEAST DIVISION (CD3)

NAME	ID	CD	DEV					HEAT		DEV		COOL		DEV		TOT	NUM	DEV	MAX	DAY
			MEAN	NUM	FROM	MAX	MIN	DEG	FROM	DEG	FROM	DEG	FROM	FROM	FROM					
			TEMP	OBS	NORM	TEMP	DAY	TEMP	DAY	DAY	NORM	DAY	NORM	DAY	NORM	PPT	OBS	NORM	24-HR	DAY
BARNSDALL	535	3	51.1	30	2.0	84.	3	20.	30	431.0	-46.0	13.0	13.0	7.605	30	4.62	2.68	20		
BARTLESVILLE 2W	548	3	51.5	30	2.3	84.	3	24.	30	415.5	-58.5	11.0	11.0	6.580	30	3.86	3.12	20		
BIXBY	782	3	50.5	30	2.1	79.	4	25.	30	440.0	-58.0	4.0	4.0	6.850	30	3.71	2.00	5		
BURBANK	1256	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.504	30	1.96	1.74	20		
CHELSEA 4 S	1717	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	8.130	30	*****	2.38	20		
CLAREMORE	1828	3	50.4	30	1.9	78.	4	23.	30	442.5	-52.5	4.5	4.5	9.290	30	6.06	2.52	20		
CLEVELAND 5 WSW	1902	3	51.9	30	*****	83.	3	27.	29	403.0	*****	11.0	*****	6.730	30	*****	2.72	20		
FORAKER	3250	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.210	30	1.63	2.87	21		
HOLLOW	4258	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.380	30	.88	2.33	4		
HOMINY	4289	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.490	30	4.86	2.41	20		
HULAH DAM	4393	3	48.3	17	*****	83.	4	19.	30	284.5	*****	.5	*****	4.401	22	*****	2.61	19		
JAY TOWER	4567	3	51.5	30	*****	74.	9	27.	30	407.0	*****	3.0	*****	8.870	30	*****	2.80	5		
KANSAS 1 ESE	4672	3	51.2	30	1.4	71.	8	27.	30	415.5	-40.5	.0	.0	8.925	30	5.08	4.80	5		
KEYSTONE DAM	4812	3	51.0	24	*****	83.	4	22.	30	342.0	*****	5.5	*****	8.321	24	*****	3.04	5		
LENAPAH	5118	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.050	30	*****	3.64	20		
MANNFORD 6 NW	5523	3	52.1	30	2.2	85.	3	22.	29	402.5	-50.5	15.0	15.0	6.230	30	3.39	2.03	20		
MARAMEC	5540	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.742	30	4.11	2.82	20		
MIAMI	5855	3	51.1	28	*****	76.	4	25.	29	391.0	*****	2.0	*****	8.871	27	*****	2.90	21		
NOWATA	6485	3	50.5	30	1.2	78.	3	27.	30	442.0	-29.0	5.5	5.5	7.742	30	4.50	2.92	20		
PAWHUSKA	6935	3	51.3	30	2.7	83.	3	21.	30	424.5	-67.5	13.0	13.0	6.101	30	3.28	2.70	20		
PAWNEE	6940	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.920	30	2.39	2.23	20		
PRYOR 6 N	7309	3	50.1	30	2.2	75.	4	24.	30	450.0	-63.0	3.5	3.5	7.512	30	3.89	2.75	20		
RALSTON	7390	3	51.4	30	2.3	83.	3	21.	30	417.0	-60.0	10.0	10.0	3.951	30	1.41	2.70	19		
RAMONA 4 N	7394	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.310	30	*****	2.90	20		
SKIATOOK	8258	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	8.220	30	5.18	2.40	20		
SPAVINAW	8380	3	54.1	30	2.8	74.	3	29.	30	334.5	-80.5	8.0	8.0	9.421	30	5.68	3.60	5		
TULSA WSO APT	8992	3	52.4	30	2.5	79.	3	28.	29	386.0	-67.0	8.5	8.5	7.063	30	3.93	2.86	4		
UPPER SPAVINAW	9101	3	53.4	27	*****	71.	4	24.	30	320.5	*****	6.0	*****	9.323	28	*****	4.60	5		
VINITA 2 N	9203	3	50.9	30	2.4	74.	3	23.	30	424.5	-70.5	2.5	2.5	8.610	30	4.78	2.67	20		
WAGONER	9247	3	53.2	30	2.2	76.	3	27.	29	353.0	-72.0	.0	.0	7.990	30	4.41	4.74	5		
WANN	9298	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.411	30	*****	2.89	20		
WYONNA	9792	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.841	30	*****	3.05	20		

NOVEMBER 1994 SUMMARY FOR WEST CENTRAL DIVISION (CD4)

NAME	ID	CD	DEV					HEAT		DEV		COOL		DEV		TOT	NUM	DEV	MAX	DAY
			MEAN	NUM	FROM	MAX	MIN	DEG	FROM	DEG	FROM	DEG	FROM	FROM	FROM					
			TEMP	OBS	NORM	TEMP	DAY	TEMP	DAY	DAY	NORM	DAY	NORM	DAY	NORM	PPT	OBS	NORM	24-HR	DAY
CANTON DAM	1445	4	47.0	28	*****	74.	9	26.	23	504.5	*****	.0	*****	4.671	26	*****	4.30	21		
CHEYENNE	1738	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.600	30	2.16	3.60	20		
CLINTON	1909	4	49.6	30	.1	82.	3	25.	30	467.0	2.0	6.0	6.0	4.722	30	2.90	3.41	20		
COLONY	2039	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.600	30	*****	3.74	20		
CORDELL	2125	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.770	30	3.02	2.67	20		
ELK CITY 1 E	2849	4	50.2	27	*****	85.	1	25.	28	404.0	*****	5.0	*****	4.462	28	*****	2.09	20		
ERICK 4 E	2944	4	49.3	30	.3	84.	3	22.	29	474.0	-9.0	1.5	1.5	2.241	30	.91	1.11	20		
GEARY	3497	4	52.7	30	4.2	83.	3	33.	30	376.5	-118.5	7.0	7.0	7.060	30	5.38	5.30	20		
HAMMON 1 NNE	3871	4	46.6	30	.2	82.	4	18.	16	551.5	-6.5	.0	.0	4.281	30	2.66	3.23	20		
LEEDEY	5090	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.970	30	1.42	2.48	20		
MACKIE 4 NNW	5463	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.810	30	*****	.95	20		
MORAVIA 2 NNE	6035	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.980	30	2.60	2.15	20		
OKEENE	6629	4	48.8	30	-.5	73.	8	26.	28	486.5	15.5	.0	.0	3.900	30	1.95	3.40	20		
RETROP	7565	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.370	30	*****	2.93	20		
REYDON	7579	4	59.5	20	*****	87.	2	38.	18	132.0	*****	22.0	*****	2.060	20	*****	.87	19		
SAYRE	7952	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.790	30	2.44	2.44	20		
2 SWEETWATER 2 E	8652	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.532	30	*****	3.10	19		
TALOGA	8708	4	48.0	30	.6	74.	3	19.	30	510.0	-18.0	.0	.0	3.512	30	1.71	3.19	20		
THOMAS	8815	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.470	30	*****	2.15	19		
VICI	9172	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.420	30	.83	2.08	20		
WATONGA	9364	4	49.5	30	1.1	80.	3	27.	23	464.5	-33.5	1.0	1.0	5.083	30	3.27	3.80	20		
WEATHERFORD	9422	4	48.9	29	1.2	81.	4	28.	29	468.0	-51.0	.0	.0	5.480	30	3.78	3.40	20		

NOVEMBER 1994 SUMMARY FOR CENTRAL DIVISION (CD5)

NAME	ID	CD	DEV					HEAT		DEV		COOL		DEV		TOT	NUM	DEV	
			MEAN	NUM	FROM	MAX	MIN	DEG	FROM	DEG	FROM	DEG	FROM	FROM	MAX			DAY	
			TEMP	OBS	NORM	TEMP	DAY	TEMP	DAY	DAY	NORM	DAY	NORM	PPT	OBS	NORM	24-HR	DAY	
AMBER	200	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.310	30	*****	2.10	20	
ARCADIA	288	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.352	30	*****	2.90	20	
TINKER AFB	325	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.485	30	*****	1.92	20	
BLANCHARD 2 SSW	830	5	52.2	30	1.0	83.	3	28.	30	398.5	-15.5	13.0	13.0	4.246	30	2.15	2.00	5	
BRISTOW	1144	5	51.9	30	1.4	83.	3	22.	30	402.5	-37.5	10.5	5.5	7.064	30	4.17	2.12	5	
CHANDLER	1684	5	53.3	30	2.4	84.	3	29.	30	358.0	-65.0	7.5	7.5	5.200	30	2.72	2.15	5	
CHICKASHA EX ST	1750	5	50.6	30	-.2	82.	4	23.	30	439.5	13.5	8.5	8.5	4.700	30	2.75	1.87	4	
COX CITY 1 E	2196	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.630	30	*****	2.00	5	
CRESCENT	2242	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.950	30	*****	4.25	20	
CUSHING	2318	5	50.3	30	1.0	84.	4	29.	24	443.5	-27.5	2.5	2.5	7.380	30	4.80	3.45	20	
EL RENO 1 N	2818	5	51.0	30	2.1	83.	3	26.	30	431.0	-52.0	12.0	12.0	6.630	30	4.88	4.25	20	
GUTHRIE	3821	5	52.7	30	2.4	84.	3	26.	30	383.5	-57.5	15.5	15.5	6.500	30	4.21	3.16	20	
HENNESSEY 4 ESE	4055	5	48.8	30	.1	75.	8	25.	30	488.5	-.5	2.0	2.0	5.330	30	3.39	4.12	20	
INGALLS	4489	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.780	30	*****	2.70	20	
KINGFISHER 2 SE	4861	5	50.2	30	.6	79.	3	26.	30	448.0	-14.0	3.0	3.0	6.321	30	4.41	5.10	20	
KONAWA	4915	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.841	30	5.11	3.44	5	
MARSHALL	5589	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.920	30	3.01	3.65	20	
MEEKER 4 W	5779	5	52.3	30	1.9	83.	3	25.	29	391.5	-46.5	12.0	12.0	6.630	30	4.07	2.38	4	
MULHALL	6110	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.580	30	*****	2.34	20	
NORMAN 3 S	6386	5	51.5	30	.4	84.	3	25.	30	415.0	-2.0	10.5	10.5	4.666	30	2.19	2.48	5	
OILTON 2 SE	6616	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.702	30	*****	2.35	4	
OKEMAH	6638	5	54.8	30	3.6	85.	3	32.	30	318.0	-96.0	12.0	12.0	9.350	30	6.41	4.30	5	
OKLAHOMA CTY WS	6661	5	50.0	30	.5	83.	3	24.	30	457.0	-5.0	8.5	8.5	5.724	30	3.74	2.17	20	
PERKINS	7003	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.970	30	3.53	2.97	20	
PIEDMONT	7068	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.610	30	*****	3.36	20	
PRAGUE	7264	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.790	30	4.12	2.52	20	
PURCELL 5 SW	7327	5	51.9	30	1.0	84.	3	20.	30	402.5	-20.5	9.0	9.0	3.803	30	1.30	1.70	5	
SEMINOLE	8042	5	53.5	30	1.2	82.	3	24.	30	356.5	-28.5	11.0	11.0	9.192	30	6.27	4.77	5	
SHAWNEE	8110	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.173	30	2.28	2.44	5	
STILLWATER 2 W	8501	5	49.9	30	1.4	83.	4	22.	30	453.5	-41.5	1.5	1.5	4.872	30	2.62	2.26	20	
STROUD 1 N	8563	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.410	30	*****	2.52	20	
TECUMSEH	8751	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.060	30	*****	1.80	4	
TROUSDALE	8960	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.790	30	*****	3.86	5	
UNION CITY 1 SE	9086	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.313	30	3.01	2.54	20	
WELTY 1 SSE	9479	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.433	30	*****	2.50	5	
WEWOKA	9575	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	8.750	30	5.96	3.47	5	

NOVEMBER 1994 SUMMARY FOR EAST CENTRAL DIVISION (CD6)

NAME	ID	CD	DEV					HEAT		DEV		COOL		DEV		TOT	NUM	DEV	
			MEAN	NUM	FROM	MAX	MIN	DEG	FROM	DEG	FROM	DEG	FROM	FROM	MAX			DAY	
			TEMP	OBS	NORM	TEMP	DAY	TEMP	DAY	DAY	NORM	DAY	NORM	PPT	OBS	NORM	24-HR	DAY	
ASHLAND	364	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.461	30	*****	2.67	5	
BEGGS	631	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.411	30	*****	3.05	5	
BOYNTON	1027	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.711	25	*****	3.10	5	
CALVIN	1391	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.300	30	1.33	2.05	4	
CHECOTAH	1711	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	8.403	30	5.09	4.02	5	
CLAYTON 14 WNW	1858	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	9.560	30	*****	2.40	15	
DUSTIN	2690	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.660	30	*****	2.63	5	
EUFULA	2993	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.052	30	3.61	2.00	5	
HANNA	3884	6	53.7	30	2.0	80.	3	23.	29	348.5	-50.5	9.0	9.0	7.650	30	4.19	3.84	5	
HARTSHORNE	3946	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	10.780	30	*****	3.14	5	
HASKELL	3956	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	8.910	30	5.42	3.69	5	
HOLDENVILLE	4235	6	52.9	30	1.0	83.	3	23.	30	373.5	-23.5	10.0	10.0	5.770	30	2.79	2.45	5	
LAKE EUFAULA	4975	6	50.4	18	*****	75.	5	27.	30	262.0	*****	.0	*****	5.512	18	*****	3.80	5	
LYONS 2 N	5437	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	8.860	30	5.09	2.19	5	
MARBLE CITY	5546	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.541	30	*****	3.67	5	
MCALLESTER FAA	5664	6	54.6	30	2.8	80.	3	26.	30	330.0	-73.0	18.0	11.0	7.881	30	4.37	2.34	14	
MCCURTAIN 1 SE	5693	6	54.4	30	1.7	77.	8	25.	30	322.0	-53.0	4.5	-1.5	14.932	30	10.57	4.78	4	
MUSKOGEE	6130	6	52.6	30	1.7	76.	3	27.	30	375.0	-52.0	3.0	3.0	6.301	30	2.75	2.17	5	
OKMULGEE W W	6670	6	50.3	30	.8	81.	4	23.	30	443.5	-21.5	2.5	2.5	9.082	29	*****	2.08	4	
OKTAHA 2 NE	6678	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	9.180	30	*****	5.25	5	
SCIPIO	7979	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.480	30	*****	3.10	5	
SHORT	8170	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	10.790	30	*****	3.51	5	
STILWELL 1 NE	8506	6	51.4	30	1.4	71.	8	21.	30	407.5	-42.5	.0	.0	8.420	30	4.64	4.41	5	
TAHLEQUAH	8677	6	52.5	30	2.3	72.	2	23.	30	378.5	-70.5	2.0	-3.0	11.341	30	7.76	5.37	5	
WEBBERS FALLS	9445	6	51.6	30	1.4	76.	3	25.	30	406.0	-38.0	5.0	5.0	8.540	30	5.17	3.18	5	
WESTVILLE	9523	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.670	30	*****	.75	19	
WETUMKA 3 NE	9571	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	9.140	30	5.93	4.16	5	

NOVEMBER 1994 SUMMARY FOR SOUTHWEST DIVISION (CD7)

NAME	ID	CD	DEV				MIN		HEAT		DEV		COOL		DEV		TOT	NUM	DEV	MAX	DAY
			MEAN	NUM	FROM	MAX	TEMP	DAY	DEG	FROM	DEG	FROM	DEG	FROM	PPT	OBS					
ALTUS IRR STA	179	7	52.4	30	.3	85.	3	27.	30	388.0	1.0	10.0	10.0	5.130	30	3.82	2.98	20			
ALTUS DAM	184	7	50.5	30	.9	86.	4	24.	30	443.0	-19.0	7.5	7.5	3.670	30	2.31	1.83	20			
ANADARKO	224	7	54.4	14	****	83.	3	21.	18	151.0	*****	2.0	*****	5.330	15	*****	3.58	20			
APACHE	260	7	****	0	****	****	0	****	0	*****	*****	*****	*****	5.690	30	3.88	2.86	20			
ALTUS AFB	447	7	****	0	****	****	0	****	0	*****	*****	*****	*****	3.091	30	*****	1.02	20			
CARNEGIE 2 ENE	1504	7	51.2	29	1.1	83.	3	29.	30	412.0	-35.0	11.0	11.0	6.702	30	5.10	4.30	19			
CHATTANOOGA	1706	7	53.3	28	****	84.	3	26.	28	335.5	*****	8.0	*****	2.590	28	*****	1.46	5			
DUNCAN 11 W	2668	7	****	0	****	****	0	****	0	*****	*****	*****	*****	3.942	30	*****	3.01	5			
FREDERICK	3353	7	51.5	29	.8	84.	4	29.	30	400.0	-29.0	8.0	8.0	3.360	30	1.76	2.10	21			
GRANDFIELD 4 NW	3709	7	****	0	****	****	0	****	0	*****	*****	*****	*****	4.120	30	2.50	2.78	5			
HEADRICK	3998	7	****	0	****	****	0	****	0	*****	*****	*****	*****	2.901	30	*****	1.06	4			
HOBART FAA APT	4204	7	51.1	30	1.0	83.	3	29.	28	428.0	-19.0	10.5	10.5	3.540	30	2.13	1.37	20			
HOLLIS	4249	7	50.5	30	.0	86.	3	24.	28	442.5	10.5	9.0	9.0	2.620	30	1.51	1.20	20			
LAWTON	5063	7	51.7	28	****	84.	4	28.	28	380.0	*****	8.5	*****	3.270	28	*****	1.55	5			
FORT SILL	5068	7	51.8	30	****	82.	3	26.	30	401.5	*****	6.5	*****	2.954	30	*****	1.19	4			
LOOKEBA 2 ENE	5329	7	****	0	****	****	0	****	0	*****	*****	*****	*****	6.500	30	4.71	4.93	20			
MANGUM RES STA	5509	7	50.5	30	-.3	85.	3	24.	29	443.0	17.0	8.5	8.5	3.360	30	2.10	1.44	20			
RANDLETT 9 E	7403	7	****	0	****	****	0	****	0	*****	*****	*****	*****	3.110	30	*****	2.20	5			
ROOSEVELT	7727	7	****	0	****	****	0	****	0	*****	*****	*****	*****	5.410	30	3.93	3.56	20			
SEDAN	8016	7	****	0	****	****	0	****	0	*****	*****	*****	*****	5.590	30	*****	3.40	20			
SNYDER	8299	7	****	0	****	****	0	****	0	*****	*****	*****	*****	5.652	30	4.11	4.03	20			
VINSON 3 WNW	9212	7	****	0	****	****	0	****	0	*****	*****	*****	*****	2.350	30	1.13	.84	20			
WALTERS	9278	7	53.3	29	.9	83.	3	24.	30	351.5	-31.5	11.5	11.5	4.510	30	2.42	3.50	5			
WICHITA MT WLR	9629	7	47.8	30	-1.1	81.	4	21.	30	519.0	36.0	3.0	3.0	7.312	30	5.42	4.95	20			
WILLOW	9668	7	****	0	****	****	0	****	0	*****	*****	*****	*****	4.001	30	*****	1.98	20			

NOVEMBER 1994 SUMMARY FOR SOUTH CENTRAL DIVISION (CD8)

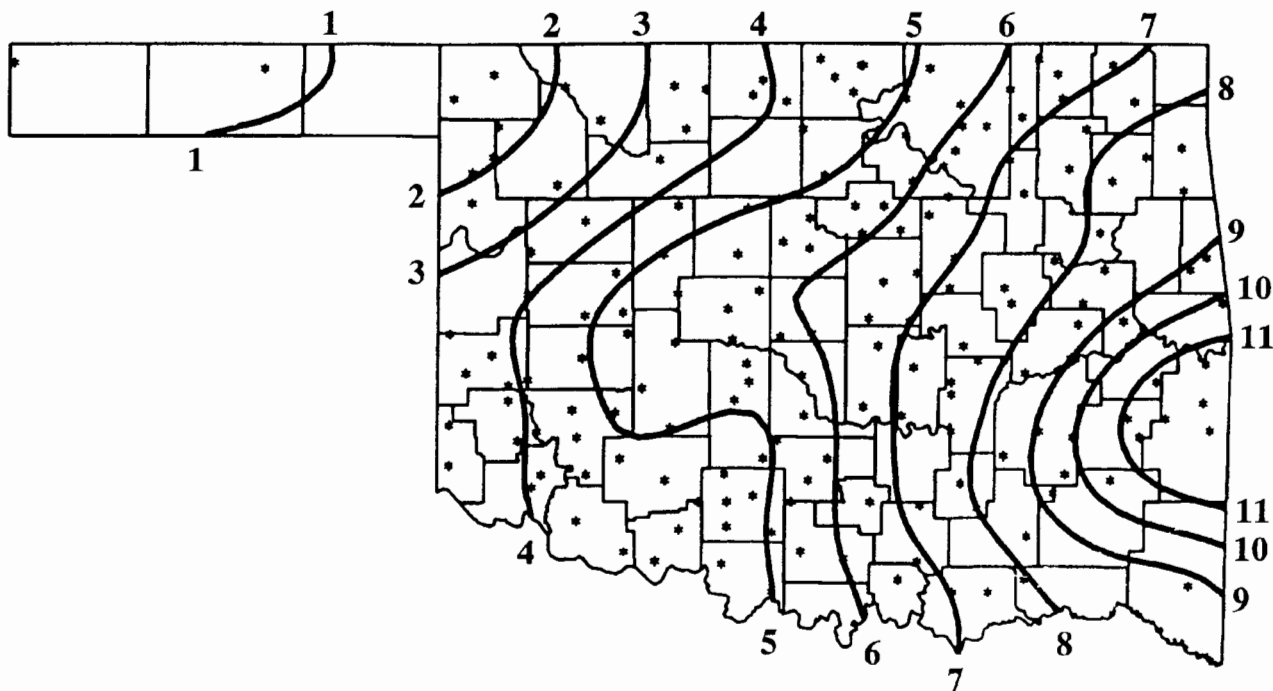
NAME	ID	CD	DEV				MIN		HEAT		DEV		COOL		DEV		TOT	NUM	DEV	MAX	DAY
			MEAN	NUM	FROM	MAX	TEMP	DAY	DEG	FROM	DEG	FROM	DEG	FROM	PPT	OBS					
ADA	17	8	51.6	30	-.5	82.	3	27.	30	406.0	13.0	3.0	-3.0	6.460	30	3.66	2.28	5			
ALLEN	147	8	****	0	****	****	0	****	0	*****	*****	*****	*****	7.520	30	*****	3.05	5			
ARDMORE	292	8	54.9	30	.4	83.	3	28.	30	318.5	-3.5	16.5	9.5	6.380	30	3.95	1.81	20			
ATOKA DAM	394	8	54.1	19	****	80.	7	26.	30	214.5	*****	6.5	*****	7.311	19	*****	1.72	7			
BOKCHITO	917	8	****	0	****	****	0	****	0	*****	*****	*****	*****	6.880	30	*****	3.50	15			
CANEY	1437	8	****	0	****	****	0	****	0	*****	*****	*****	*****	6.790	30	*****	2.32	14			
CENTRAHOMA	1648	8	****	0	****	****	0	****	0	*****	*****	*****	*****	7.900	30	*****	2.90	5			
CHICKASAW NRA	1745	8	54.1	30	3.5	85.	4	27.	30	341.0	-91.0	14.5	14.5	6.620	30	3.95	1.95	21			
COLEMAN	2011	8	****	0	****	****	0	****	0	*****	*****	*****	*****	7.330	30	*****	2.00	14			
COMANCHE	2054	8	****	0	****	****	0	****	0	*****	*****	*****	*****	3.900	30	1.82	3.26	4			
DAISY 4 ENE	2354	8	****	0	****	****	0	****	0	*****	*****	*****	*****	9.882	30	5.88	2.66	15			
DUNCAN	2660	8	52.0	30	.6	83.	4	28.	30	400.0	-12.0	9.5	9.5	4.372	30	2.22	2.76	5			
DURANT USDA	2678	8	54.3	30	2.3	83.	4	26.	30	337.0	-60.0	15.5	8.5	6.350	30	3.21	1.97	15			
ELMORE CITY	2872	8	****	0	****	****	0	****	0	*****	*****	*****	*****	5.510	30	*****	3.27	5			
FARRIS 3 WNW	3083	8	****	0	****	****	0	****	0	*****	*****	*****	*****	6.640	30	3.03	2.32	15			
GRADY	3688	8	****	0	****	****	0	****	0	*****	*****	*****	*****	4.670	30	*****	1.75	14			
HEALDTON	4001	8	53.9	30	1.6	85.	3	26.	30	347.0	-39.0	15.0	15.0	6.701	30	4.44	1.92	20			
HENNEPIN	4052	8	****	0	****	****	0	****	0	*****	*****	*****	*****	5.240	30	*****	2.30	5			
KETCHUM RANCH	4780	8	****	0	****	****	0	****	0	*****	*****	*****	*****	6.411	30	*****	4.30	4			
KINGSTON	4865	8	****	0	****	****	0	****	0	*****	*****	*****	*****	1.930	25	*****	1.15	5			
LEHIGH	5108	8	****	0	****	****	0	****	0	*****	*****	*****	*****	8.953	30	*****	2.25	5			
LINDSAY 2 W	5216	8	52.3	30	1.0	82.	3	23.	30	395.0	-16.0	12.5	12.5	3.496	30	1.28	1.96	5			
LOCO 6 SE	5247	8	****	0	****	****	0	****	0	*****	*****	*****	*****	5.140	30	*****	2.00	5			
MADILL	5468	8	54.7	30	.9	82.	3	26.	30	327.5	-14.5	17.0	11.0	5.381	30	2.58	3.34	13			
MARIETTA	5563	8	55.5	30	1.9	84.	3	29.	30	305.5	-43.5	21.5	14.5	5.310	30	2.71	1.34	20			
MARLOW 1 WSW	5581	8	53.7	30	2.2	86.	3	26.	30	352.5	-52.5	13.5	13.5	3.523	30	1.38	2.30	5			
MCGEE CREEK DAM	5713	8	53.7	30	****	81.	4	26.	30	346.5	*****	8.5	*****	7.071	30	*****	1.94	15			
PAULS VALLEY	6926	8	52.9	30	.8	85.	3	21.	30	377.5	-14.5	15.0	15.0	7.100	30	4.57	4.60	6			
PONTOTOC	7214	8	****	0	****	****	0	****	0	*****	*****	*****	*****	7.711	30	4.75	2.41	4			
TISHOMINGO NWLR	8884	8	53.7	20	****	83.	3	25.	30	247.0	*****	21.0	*****	7.360	30	4.34	1.95	14			
TUSSY	9032	8	****	0	****	****	0	****	0	*****	*****	*****	*****	3.940	30	*****	2.30	5			
WAURIKA	9395	8	54.1	30	1.0	86.	3	27.	30	335.5	-27.5	8.5	2.5	3.420	30	1.60	1.79	4			
WAURIKA DAM	9399	8	53.8	21	****	85.	4	27.	30	248.0	*****	12.5	*****	2.221	29	*****	1.28	4			

NOVEMBER 1994 SUMMARY FOR SOUTHEAST DIVISION (CD9)

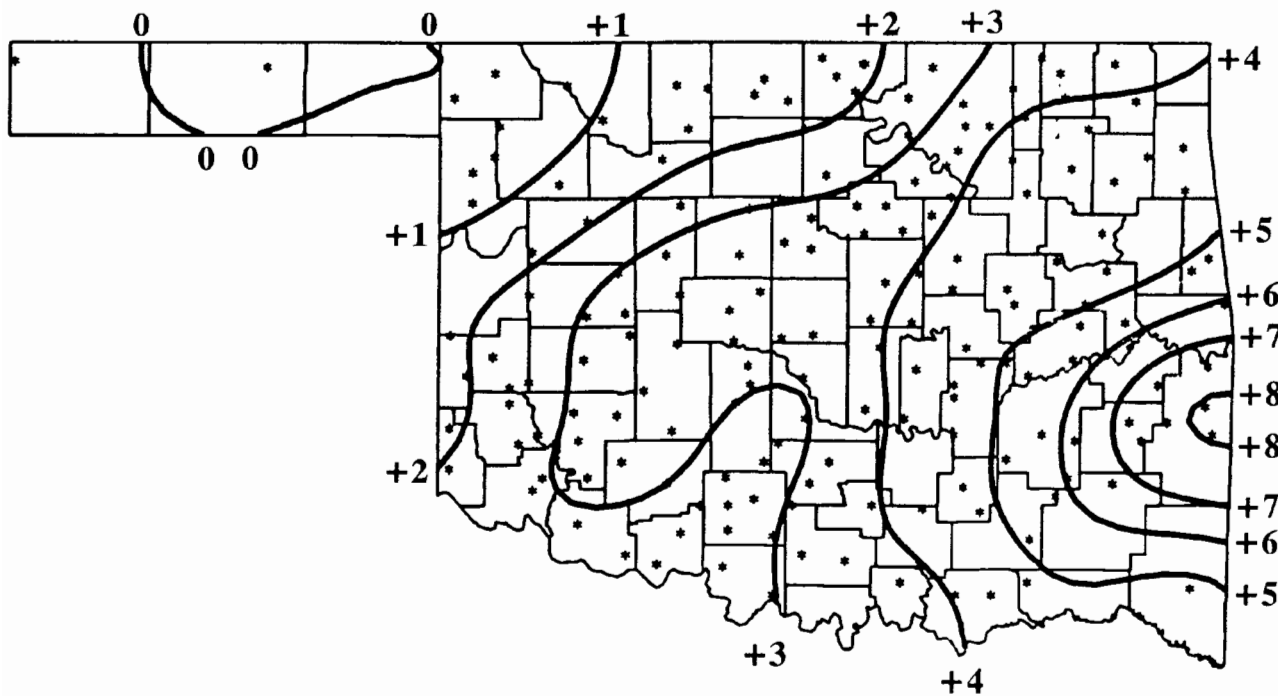
NAME	ID	CD	DEV					HEAT		DEV		COOL		DEV		TOT	NUM	FROM	MAX	24-HR	DAY
			MEAN	NUM	FROM	MAX	MIN	DEG	FROM	DEG	FROM	DEG	FROM	DEG	FROM						
ANTLERS	256	9	54.2	30	1.2	81.	4	23.	30	339.0	-27.0	14.0	8.0	.000	1	*****	.00	21			
BATTIEST 1 SSW	567	9	51.7	30	*****	76.	3	21.	30	407.0	*****	7.5	*****	5.200	30	*****	1.90	5			
BEAR MT TWR	584	9	55.9	21	*****	79.	4	32.	30	197.0	*****	5.5	*****	7.491	23	*****	2.44	5			
BENGAL	670	9	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	11.590	30	*****	3.26	5			
BOSWELL 4 NNW	980	9	55.7	30	2.4	81.	3	24.	30	296.5	-62.5	18.0	10.0	8.975	30	5.33	3.88	15			
BROKEN BOW 1 N	1162	9	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	6.880	30	2.64	3.50	5			
BROKEN BOW DAM	1168	9	54.9	30	2.6	80.	4	29.	30	310.0	-71.0	6.5	6.5	6.500	28	*****	3.32	6			
CARNASAW TWR	1499	9	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	5.700	29	*****	4.15	7			
CARTER TWR	1544	9	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	6.860	30	2.58	3.50	7			
FANSHAWE	3065	9	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	9.270	30	4.76	2.84	5			
HEAVENER 1 SE	4008	9	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	14.280	30	9.99	4.68	5			
HEE MT TWR	4017	9	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	8.901	30	4.54	4.00	5			
HUGO	4384	9	55.9	29	1.6	81.	3	28.	29	279.0	-51.0	14.5	5.5	6.710	29	*****	2.10	5			
IDABEL	4451	9	54.9	30	2.4	83.	4	27.	30	313.0	-67.0	11.0	6.0	6.142	30	2.04	3.32	5			
PINE CREEK DAM	7080	9	56.0	21	*****	83.	4	28.	30	201.0	*****	11.0	*****	4.873	26	*****	1.90	5			
POTEAU W W	7254	9	53.9	30	*****	79.	4	26.	29	340.5	*****	8.0	*****	9.711	30	*****	2.00	5			
SMITHVILLE 1 W	8285	9	52.4	30	1.6	76.	4	19.	30	386.0	-40.0	7.5	7.5	6.126	30	1.75	2.60	4			
SPIRO	8416	9	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	13.060	30	8.64	3.27	4			
TUSKAHOMA	9023	9	54.3	30	1.4	79.	3	21.	30	331.0	-38.0	11.0	5.0	11.081	30	6.95	2.88	15			
VALLIANT 3 W	9118	9	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	6.202	30	2.04	2.27	5			
WILBURTON 9 ENE	9634	9	53.3	30	2.0	75.	8	23.	30	359.0	-56.0	7.0	7.0	15.462	30	11.17	4.07	4			

NOVEMBER 1994 CLIMATE DIVISION SUMMARY

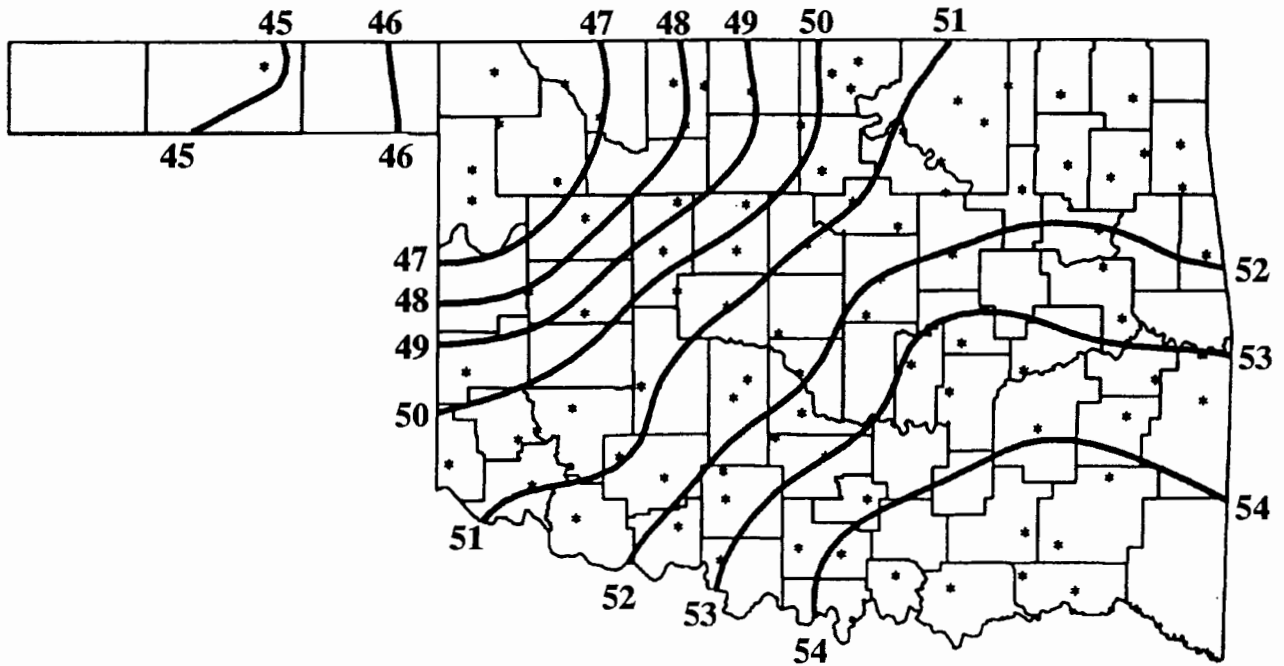
CLIMATE	MEAN	NUM	DEV			HEAT		DEV		COOL		DEV		DEV		TOT	NUM	FROM	MAX	24-HR	DAY
			FROM	MAX	MIN	DEGREE	FROM	DEGREE	FROM	DEGREE	FROM	DEGREE	FROM	DEGREE							
1	45.0	9	-.1	87.0	2	14.0	29	601.2	3.6	.1	1.07	13	.06	1.75	20						
2	48.3	15	.9	82.0	8	12.0	30	501.1	-25.9	1.5	1.5	3.54	22	1.68	4.34	20					
3	51.5	16	2.4	85.0	3	19.0	30	411.8	-65.2	7.0	7.0	6.85	28	3.76	4.80	5					
4	49.2	8	.9	87.0	2	18.0	16	474.8	-27.9	1.9	1.9	4.14	19	2.53	5.30	20					
5	51.6	16	1.2	85.0	3	20.0	30	411.7	-28.0	8.7	8.4	6.01	36	3.61	5.10	20					
6	52.7	9	1.5	83.0	3	21.0	30	376.1	-42.2	6.0	3.7	8.08	24	4.62	5.37	5					
7	51.1	10	.4	86.0	3	21.0	30	422.9	-7.9	8.6	8.6	4.34	22	2.78	4.95	20					
8	53.7	13	1.3	86.0	3	21.0	30	353.0	-29.2	13.1	9.8	6.13	30	3.43	4.60	6					
9	54.1	10	1.4	83.0	4	19.0	30	336.1	-39.0	10.5	5.8	9.32	15	5.10	4.68	5					



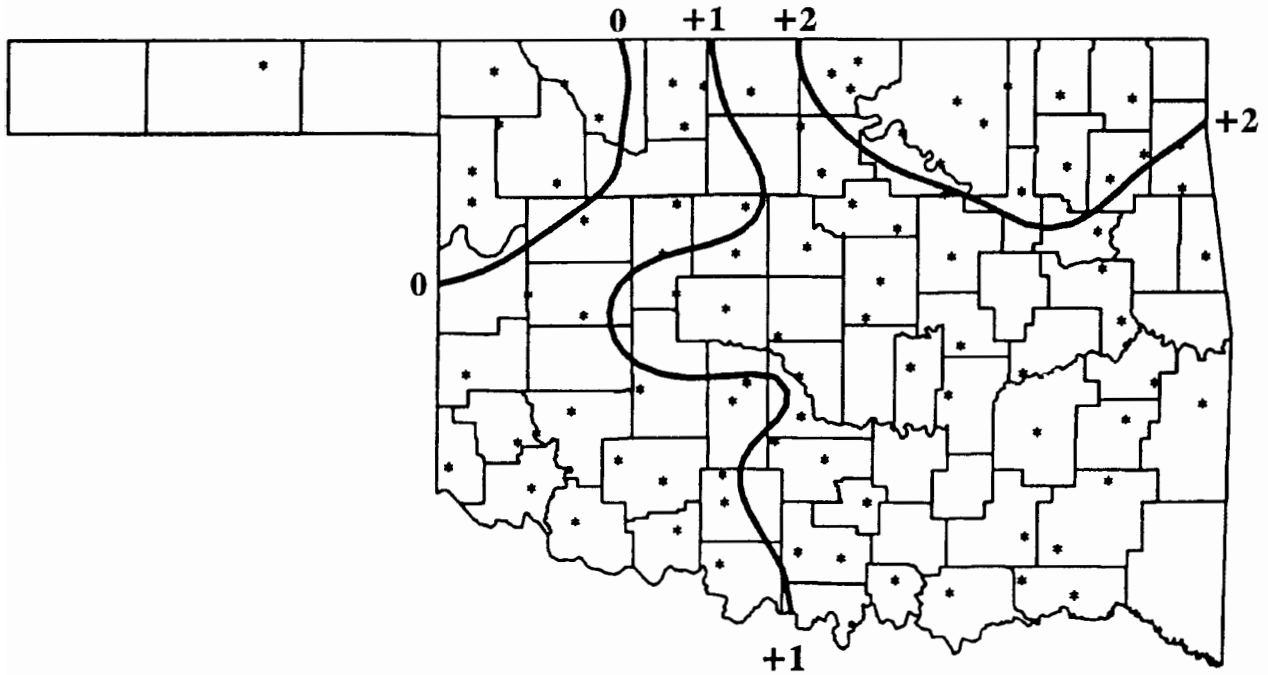
NOVEMBER 1994 TOTAL PRECIPITATION
(Inches)



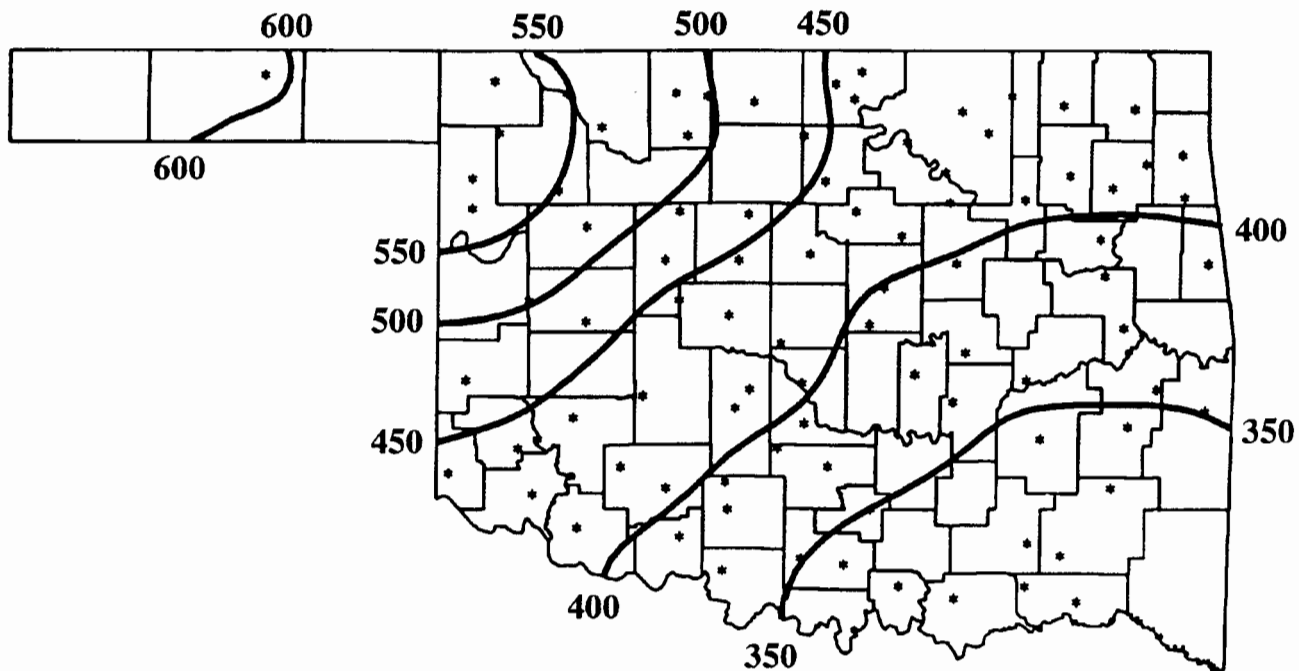
NOVEMBER 1994 DEVIATION FROM NORMAL PRECIPITATION
(Inches)



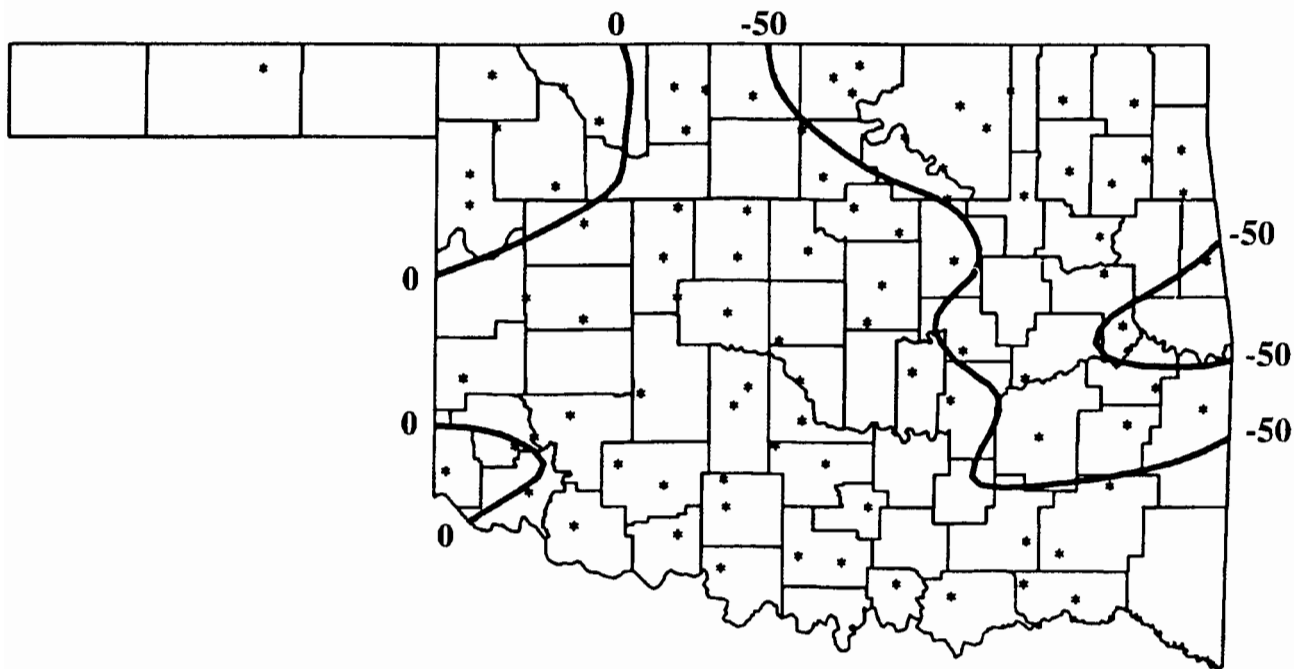
NOVEMBER 1994 AVERAGE MONTHLY TEMPERATURES
(Degrees F)



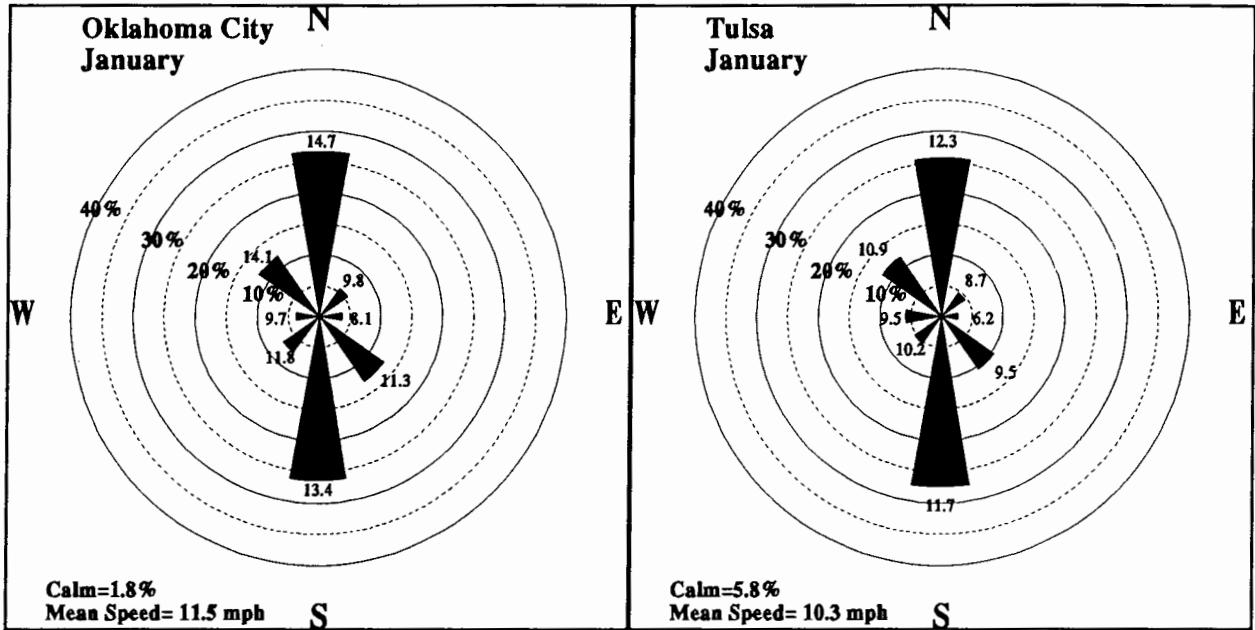
NOVEMBER 1994 DEVIATION FROM NORMAL TEMPERATURES
(Degrees F)



NOVEMBER 1994 HEATING DEGREE DAYS



NOVEMBER 1994 DEVIATION FROM NORMAL HEATING DEGREE DAYS



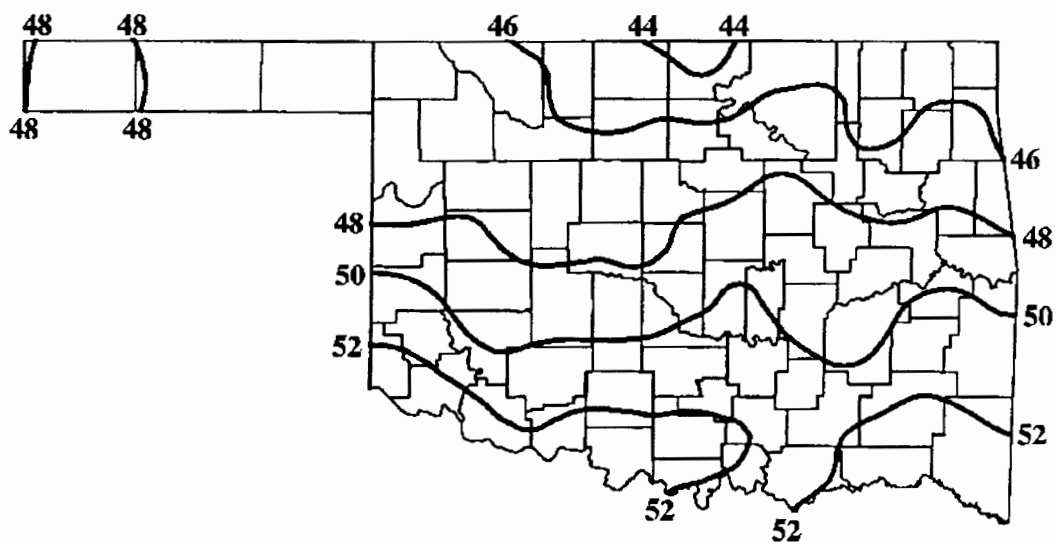
January Wind Roses for Oklahoma City and Tulsa. Percents represent the frequency of winds from each direction. The numbers at the ends of the bars indicate the average wind speed (miles per hour) from that direction.

JANUARY 1995 SUNRISE AND SUNSET

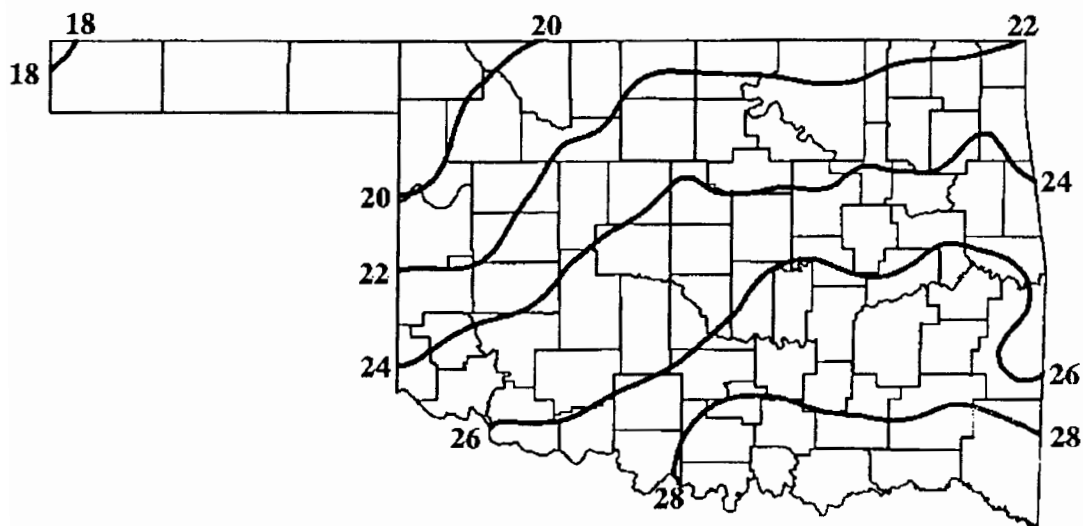
OKLAHOMA CITY

TULSA

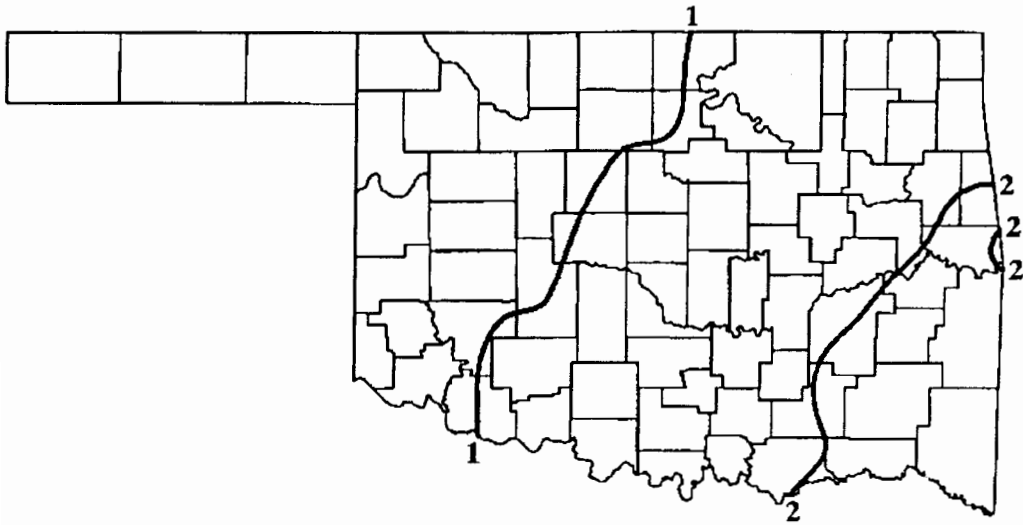
DATE	SUNRISE	SUNSET	DAYLIGHT	DATE	SUNRISE	SUNSET	DAYLIGHT
95 1 1	7:38AM	5:30PM CST	9 hrs 53 mins	95 1 1	7:33AM	5:21PM CST	9 hrs 49 mins
95 1 2	7:38AM	5:31PM CST	9 hrs 53 mins	95 1 2	7:33AM	5:22PM CST	9 hrs 49 mins
95 1 3	7:38AM	5:31PM CST	9 hrs 54 mins	95 1 3	7:33AM	5:23PM CST	9 hrs 50 mins
95 1 4	7:38AM	5:32PM CST	9 hrs 54 mins	95 1 4	7:33AM	5:23PM CST	9 hrs 50 mins
95 1 5	7:38AM	5:33PM CST	9 hrs 55 mins	95 1 5	7:33AM	5:24PM CST	9 hrs 51 mins
95 1 6	7:38AM	5:34PM CST	9 hrs 56 mins	95 1 6	7:33AM	5:25PM CST	9 hrs 52 mins
95 1 7	7:38AM	5:35PM CST	9 hrs 56 mins	95 1 7	7:33AM	5:26PM CST	9 hrs 52 mins
95 1 8	7:38AM	5:35PM CST	9 hrs 57 mins	95 1 8	7:33AM	5:27PM CST	9 hrs 53 mins
95 1 9	7:38AM	5:36PM CST	9 hrs 58 mins	95 1 9	7:33AM	5:27PM CST	9 hrs 54 mins
95 1 10	7:38AM	5:37PM CST	9 hrs 59 mins	95 1 10	7:33AM	5:28PM CST	9 hrs 55 mins
95 1 11	7:38AM	5:38PM CST	10 hrs 0 mins	95 1 11	7:33AM	5:29PM CST	9 hrs 56 mins
95 1 12	7:38AM	5:39PM CST	10 hrs 1 mins	95 1 12	7:33AM	5:30PM CST	9 hrs 57 mins
95 1 13	7:38AM	5:40PM CST	10 hrs 2 mins	95 1 13	7:33AM	5:31PM CST	9 hrs 58 mins
95 1 14	7:38AM	5:40PM CST	10 hrs 3 mins	95 1 14	7:33AM	5:32PM CST	9 hrs 59 mins
95 1 15	7:38AM	5:41PM CST	10 hrs 4 mins	95 1 15	7:33AM	5:33PM CST	10 hrs 0 mins
95 1 16	7:37AM	5:42PM CST	10 hrs 5 mins	95 1 16	7:32AM	5:34PM CST	10 hrs 1 mins
95 1 17	7:37AM	5:43PM CST	10 hrs 6 mins	95 1 17	7:32AM	5:35PM CST	10 hrs 2 mins
95 1 18	7:37AM	5:44PM CST	10 hrs 7 mins	95 1 18	7:32AM	5:35PM CST	10 hrs 4 mins
95 1 19	7:37AM	5:45PM CST	10 hrs 8 mins	95 1 19	7:31AM	5:36PM CST	10 hrs 5 mins
95 1 20	7:36AM	5:46PM CST	10 hrs 10 mins	95 1 20	7:31AM	5:37PM CST	10 hrs 6 mins
95 1 21	7:36AM	5:47PM CST	10 hrs 11 mins	95 1 21	7:31AM	5:38PM CST	10 hrs 8 mins
95 1 22	7:35AM	5:48PM CST	10 hrs 12 mins	95 1 22	7:30AM	5:39PM CST	10 hrs 9 mins
95 1 23	7:35AM	5:49PM CST	10 hrs 14 mins	95 1 23	7:30AM	5:40PM CST	10 hrs 10 mins
95 1 24	7:35AM	5:50PM CST	10 hrs 15 mins	95 1 24	7:29AM	5:41PM CST	10 hrs 12 mins
95 1 25	7:34AM	5:51PM CST	10 hrs 17 mins	95 1 25	7:29AM	5:42PM CST	10 hrs 13 mins
95 1 26	7:34AM	5:52PM CST	10 hrs 18 mins	95 1 26	7:28AM	5:43PM CST	10 hrs 15 mins
95 1 27	7:33AM	5:53PM CST	10 hrs 20 mins	95 1 27	7:28AM	5:44PM CST	10 hrs 17 mins
95 1 28	7:32AM	5:54PM CST	10 hrs 21 mins	95 1 28	7:27AM	5:45PM CST	10 hrs 18 mins
95 1 29	7:32AM	5:55PM CST	10 hrs 23 mins	95 1 29	7:27AM	5:46PM CST	10 hrs 20 mins
95 1 30	7:31AM	5:56PM CST	10 hrs 24 mins	95 1 30	7:26AM	5:47PM CST	10 hrs 21 mins
95 1 31	7:31AM	5:57PM CST	10 hrs 26 mins	95 1 31	7:25AM	5:48PM CST	10 hrs 23 mins



January Normal Daily Maximum Temperatures (°F)



January Normal Daily Minimum Temperatures (°F)



January Normal Monthly Precipitation (inches)

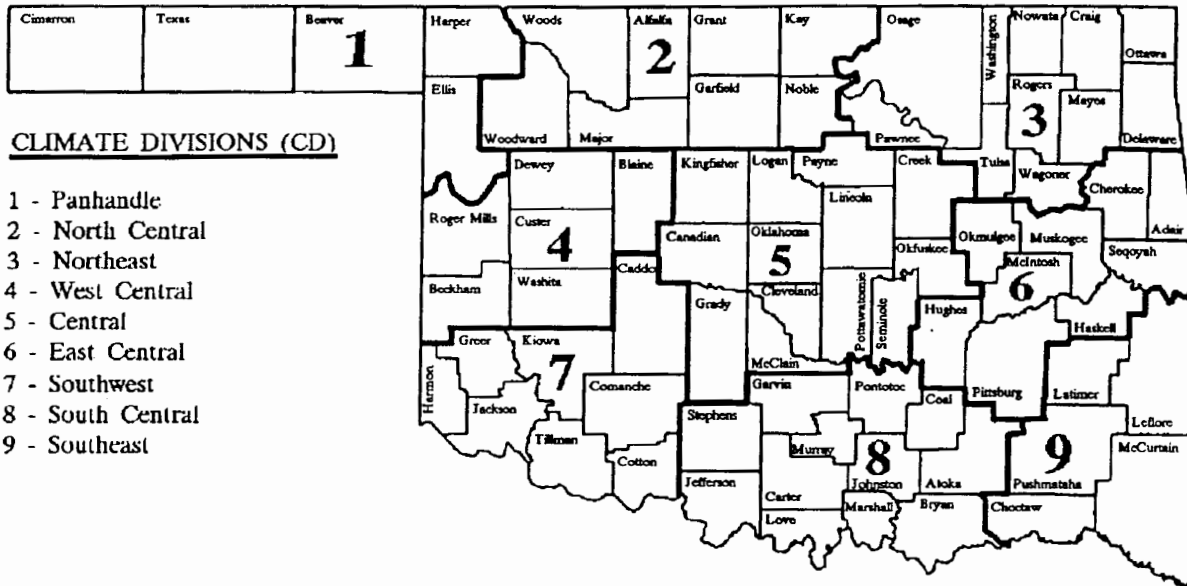
90-DAY NATIONAL WEATHER SERVICE OUTLOOK

(November 1994-January 1995)

Precipitation - Greater than Normal Statewide

**Temperature - Above Normal Southeast
Near Normal Elsewhere**

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 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.

OKLAHOMA CITY CLIMATE CALENDAR

January 1995

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

Normal 1	Actual	Normal 2	Actual	Normal 3	Actual	Normal 4	Actual	Normal 5	Actual	Normal 6	Actual	Normal 7	Actual
46.5 max 28.5 min .02 ppt 29 hdd 0 cdd Highest Max 74-1910 Lowest Max 19-1979 Lowest Min 2-1928 Highest Min 51-1966 Greatest ppt .63-1992	_____	47.1 max 27.4 min .07 ppt 28 hdd 0 cdd Highest Max 70-1964 Lowest Max 19-1911 Lowest Min -2-1911 Highest Min 56-1950 Greatest ppt 1.01-1951	_____	45.5 max 25.0 min .06 ppt 30 hdd 0 cdd Highest Max 71-1939 Lowest Max 10-1919 Lowest Min -9-1911 Highest Min 52-1922 Greatest ppt 1.03-1908	_____	43.8 max 25.2 min .02 ppt 31 hdd 0 cdd Highest Max 72-1927 Lowest Max 11-1959 Lowest Min -7-1947 Highest Min 60-1955 Greatest ppt 1.81-1932	_____	46.8 max 26.5 min .05 ppt 28 hdd 0 cdd Highest Max 71-1927 Lowest Max 18-1924 Lowest Min -2-1912 Highest Min 48-1946 Greatest ppt 1.00-1952	_____	47.9 max 25.1 min .02 ppt 29 hdd 0 cdd Highest Max 68-1921 Lowest Max 14-1909 Lowest Min -2-1912 Highest Min 52-1907 Greatest ppt 1.02-1934	_____	44.9 max 24.2 min .01 ppt 30 hdd 0 cdd Highest Max 73-1965 Lowest Max 15-1913 Lowest Min -3-1912 Highest Min 61-1907 Greatest ppt .93-1944	_____
Normal 8	Actual	Normal 9	Actual	Normal 10	Actual	Normal 11	Actual	Normal 12	Actual	Normal 13	Actual	Normal 14	Actual
46.9 max 23.5 min .03 ppt 30 hdd 0 cdd Highest Max 71-1923 Lowest Max 11-1937 Lowest Min -4-1988 Highest Min 49-1949 Greatest ppt 1.45-1935	_____	44.8 max 23.5 min .02 ppt 31 hdd 0 cdd Highest Max 70-1902 Lowest Max 9-1977 Lowest Min -2-1977 Highest Min 45-1956 Greatest ppt .57-1907	_____	42.6 max 22.7 min .02 ppt 32 hdd 0 cdd Highest Max 75-1990 Lowest Max 13-1962 Lowest Min -3-1977 Highest Min 47-1928 Greatest ppt .66-1905	_____	44.1 max 22.6 min .01 ppt 32 hdd 0 cdd Highest Max 77-1911 Lowest Max 2-1919 Lowest Min -7-1918 Highest Min 50-1988 Greatest ppt 1.10-1916	_____	46.5 max 25.1 min .03 ppt 30 hdd 0 cdd Highest Max 73-1935 Lowest Max 6-1912 Lowest Min -7-1912 Highest Min 51-1960 Greatest ppt .78-1927	_____	47.0 max 25.3 min .02 ppt 29 hdd 0 cdd Highest Max 79-1928 Lowest Max 11-1905 Lowest Min -4-1916 Highest Min 51-1952 Greatest ppt .79-1992	_____	48.3 max 26.3 min .02 ppt 28 hdd 0 cdd Highest Max 75-1928 Lowest Max 12-1905 Lowest Min -1-1905 Highest Min 50-1928 Greatest ppt .46-1899	_____
Normal 15	Actual	Normal 16	Actual	Normal 17	Actual	Normal 18	Actual	Normal 19	Actual	Normal 20	Actual	Normal 21	Actual
49.2 max 25.5 min .02 ppt 28 hdd 0 cdd Highest Max 77-1914 Lowest Max 14-1930 Lowest Min -2-1905 Highest Min 53-1969 Greatest ppt 1.07-1932	_____	46.5 max 25.5 min .04 ppt 29 hdd 0 cdd Highest Max 76-1894 Lowest Max 11-1930 Lowest Min 0-1930 Highest Min 57-1990 Greatest ppt .70-1990	_____	47.6 max 26.1 min .04 ppt 28 hdd 0 cdd Highest Max 73-1894 Lowest Max 8-1930 Lowest Min -9-1930 Highest Min 52-1994 Greatest ppt 1.16-1926	_____	46.4 max 25.7 min .10 ppt 29 hdd 0 cdd Highest Max 74-1951 Lowest Max 8-1992 Lowest Min -9-1930 Highest Min 48-1895 Greatest ppt 1.07-1968	_____	44.1 max 25.1 min .09 ppt 30 hdd 0 cdd Highest Max 75-1914 Lowest Max 12-1902 Lowest Min -11-1992 Highest Min 54-1904 Greatest ppt 2.76-1894	_____	45.9 max 25.0 min .02 ppt 30 hdd 0 cdd Highest Max 80-1986 Lowest Max 18-1984 Lowest Min 1-1985 Highest Min 53-1921 Greatest ppt 1.29-1904	_____	45.6 max 26.0 min .08 ppt 29 hdd 0 cdd Highest Max 71-1967 Lowest Max 12-1954 Lowest Min -3-1930 Highest Min 56-1921 Greatest ppt 1.40-1932	_____
Normal 22	Actual	Normal 23	Actual	Normal 24	Actual	Normal 25	Actual	Normal 26	Actual	Normal 27	Actual	Normal 28	Actual
47.3 max 25.5 min .03 ppt 29 hdd 0 cdd Highest Max 79-1967 Lowest Max 16-1962 Lowest Min -8-1930 Highest Min 50-1921 Greatest ppt .39-1920	_____	46.8 max 25.1 min .02 ppt 29 hdd 0 cdd Highest Max 75-1909 Lowest Max 13-1953 Lowest Min -1-1953 Highest Min 51-1957 Greatest ppt 1.16-1921	_____	50.1 max 27.2 min .02 ppt 26 hdd 0 cdd Highest Max 81-1950 Lowest Max 8-1894 Lowest Min -8-1894 Highest Min 51-1944 Greatest ppt .37-1949	_____	49.2 max 27.9 min .08 ppt 26 hdd 0 cdd Highest Max 77-1952 Lowest Max 15-1905 Lowest Min -3-1894 Highest Min 58-1944 Greatest ppt 1.26-1949	_____	46.4 max 26.5 min .03 ppt 29 hdd 0 cdd Highest Max 72-1953 Lowest Max 12-1897 Lowest Min 0-1902 Highest Min 54-1911 Greatest ppt 1.25-1916	_____	45.8 max 25.3 min .03 ppt 29 hdd 0 cdd Highest Max 72-1914 Lowest Max 17-1951 Lowest Min 9-1963 Highest Min 56-1914 Greatest ppt .82-1985	_____	47.1 max 26.0 min .02 ppt 28 hdd 0 cdd Highest Max 78-1893 Lowest Max 21-1948 Lowest Min 5-1948 Highest Min 60-1968 Greatest ppt .44-1989	_____
Normal 29	Actual	Normal 30	Actual	Normal 31	Actual								
48.1 max 25.2 min .06 ppt 28 hdd 0 cdd Highest Max 76-1911 Lowest Max 13-1966 Lowest Min -1-1895 Highest Min 51-1992 Greatest ppt 1.84-1982	_____	46.9 max 26.2 min .07 ppt 28 hdd 0 cdd Highest Max 74-1917 Lowest Max 17-1949 Lowest Min -1-1895 Highest Min 55-1988 Greatest ppt 1.34-1982	_____	48.4 max 27.8 min .06 ppt 27 hdd 0 cdd Highest Max 83-1911 Lowest Max 6-1918 Lowest Min -1-1979 Highest Min 52-1911 Greatest ppt 1.98-1923	_____								

JANUARY AVERAGES

TEMPERATURE : 36.1 °F
 PRECIPITATION : 1.20"
 HEATING DEGREE DAYS : 899
 COOLING DEGREE DAYS : 0

TULSA CLIMATE CALENDAR

January 1995

The data on this calendar are for Tulsa. Normal values are calculated for the period 1948-1992. Temperatures extremes are for the period 1905-1994; precipitation extremes are for the period 1948-1994.

Normal 1	Actual	Normal 2	Actual	Normal 3	Actual	Normal 4	Actual	Normal 5	Actual	Normal 6	Actual	Normal 7	Actual		
46.0 max 26.0 min .03 ppt 28 hdd 0 cdd	Actual	47.0 max 27.0 min .06 ppt 28 hdd 0 cdd	Actual	46.0 max 24.0 min .11 ppt 30 hdd 0 cdd	Actual	44.0 max 25.0 min .03 ppt 30 hdd 0 cdd	Actual	45.0 max 25.0 min .02 ppt 29 hdd 0 cdd	Actual	45.0 max 25.0 min .01 ppt 29 hdd 0 cdd	Actual	44.0 max 24.0 min .01 ppt 31 hdd 0 cdd	Actual		
Highest Max 73-1910 Lowest Max 13-1974 Lowest Min 0-1928 Highest Min 53-1966 Greatest ppt .50-1965		Highest Max 72-1950 Lowest Max 25-1979 Lowest Min 2-1911 Highest Min 55-1950 Greatest ppt .90-1951		Highest Max 71-1955 Lowest Max 14-1959 Lowest Min -2-1919 Highest Min 52-1955 Greatest ppt 1.12-1971		Highest Max 70-1956 Lowest Max 12-1959 Lowest Min -8-1947 Highest Min 63-1955 Greatest ppt .82-1963		Highest Max 73-1984 Lowest Max 19-1987 Lowest Min -7-1947 Highest Min 48-1992 Greatest ppt .50-1962		Highest Max 69-1907 Lowest Max 20-1979 Lowest Min 0-1912 Highest Min 47-1955 Greatest ppt .61-1988		Highest Max 77-1965 Lowest Max 15-1968 Lowest Min -5-1912 Highest Min 49-1965 Greatest ppt .17-1973			
Normal 8	Actual	Normal 9	Actual	Normal 10	Actual	Normal 11	Actual	Normal 12	Actual	Normal 13	Actual	Normal 14	Actual		
47.0 max 24.0 min .03 ppt 29 hdd 0 cdd	Actual	44.0 max 24.0 min .06 ppt 31 hdd 0 cdd	Actual	42.0 max 22.0 min .02 ppt 33 hdd 0 cdd	Actual	44.0 max 22.0 min .01 ppt 32 hdd 0 cdd	Actual	45.0 max 25.0 min .02 ppt 30 hdd 0 cdd	Actual	47.0 max 25.0 min .02 ppt 29 hdd 0 cdd	Actual	48.0 max 27.0 min .05 ppt 27 hdd 0 cdd	Actual		
Highest Max 71-1923 Lowest Max 17-1970 Lowest Min -5-1988 Highest Min 46-1954 Greatest ppt .78-1987		Highest Max 69-1909 Lowest Max 10-1977 Lowest Min 0-1977 Highest Min 45-1990 Greatest ppt .57-1977		Highest Max 76-1990 Lowest Max 13-1962 Lowest Min -5-1977 Highest Min 45-1960 Greatest ppt .30-1949		Highest Max 80-1911 Lowest Max 21-1973 Lowest Min -6-1977 Highest Min 43-1960 Greatest ppt .17-1949		Highest Max 73-1960 Lowest Max 11-1963 Lowest Min -13-1918 Highest Min 57-1960 Greatest ppt .42-1960		Highest Max 75-1907 Lowest Max 23-1992 Lowest Min -12-191 Highest Min 51-1959 Greatest ppt .41-1951		Highest Max 75-1952 Lowest Max 13-1970 Lowest Min -14-1930 Highest Min 48-1954 Greatest ppt .88-1968		Highest Max 75-1957 Lowest Max 16-1970 Lowest Min -1-1918 Highest Min 57-1967 Greatest ppt .55-1973	
Normal 15	Actual	Normal 16	Actual	Normal 17	Actual	Normal 18	Actual	Normal 19	Actual	Normal 20	Actual	Normal 21	Actual		
48.0 max 25.0 min .03 ppt 28 hdd 0 cdd	Actual	44.0 max 24.0 min .03 ppt 31 hdd 0 cdd	Actual	44.0 max 25.0 min .04 ppt 30 hdd 0 cdd	Actual	44.0 max 25.0 min .10 ppt 30 hdd 0 cdd	Actual	43.0 max 25.0 min .08 ppt 31 hdd 0 cdd	Actual	44.0 max 25.0 min .04 ppt 30 hdd 0 cdd	Actual	45.0 max 26.0 min .07 ppt 29 hdd 0 cdd	Actual		
Highest Max 69-1990 Lowest Max 18-1972 Lowest Min 0-1905 Highest Min 53-1980 Greatest ppt .76-1949		Highest Max 78-1998 Lowest Max 16-1977 Lowest Min 1-1920 Highest Min 58-1990 Greatest ppt .66-1990		Highest Max 73-1952 Lowest Max 11-1978 Lowest Min -3-1930 Highest Min 55-1973 Greatest ppt .45-1984		Highest Max 72-1951 Lowest Max 13-1970 Lowest Min -14-1930 Highest Min 48-1972 Greatest ppt .88-1968		Highest Max 75-1951 Lowest Max 14-1970 Lowest Min -5-1943 Highest Min 48-1954 Greatest ppt 1.95-1990		Highest Max 77-1986 Lowest Max 15-1984 Lowest Min -3-1985 Highest Min 45-1973 Greatest ppt .61-1958		Highest Max 75-1957 Lowest Max 16-1970 Lowest Min -1-1918 Highest Min 57-1967 Greatest ppt .55-1973			
Normal 22	Actual	Normal 23	Actual	Normal 24	Actual	Normal 25	Actual	Normal 26	Actual	Normal 27	Actual	Normal 28	Actual		
46.0 max 26.0 min .07 ppt 28 hdd 0 cdd	Actual	45.0 max 25.0 min .08 ppt 30 hdd 0 cdd	Actual	50.0 max 28.0 min .02 ppt 27 hdd 0 cdd	Actual	50.0 max 28.0 min .10 ppt 26 hdd 0 cdd	Actual	46.0 max 26.0 min .06 ppt 28 hdd 0 cdd	Actual	43.0 max 25.0 min .07 ppt 31 hdd 0 cdd	Actual	47.0 max 24.0 min .01 ppt 29 hdd 0 cdd	Actual		
Highest Max 78-1909 Lowest Max 16-1962 Lowest Min -16-1920 Highest Min 53-1965 Greatest ppt .53-1956		Highest Max 78-1909 Lowest Max 12-1963 Lowest Min -8-1930 Highest Min 54-1967 Greatest ppt 1.42-1953		Highest Max 79-1950 Lowest Max 20-1948 Lowest Min -4-1906 Highest Min 48-1994 Greatest ppt .21-1949		Highest Max 74-1952 Lowest Max 19-1949 Lowest Min 2-1940 Highest Min 49-1981 Greatest ppt 1.89-1989		Highest Max 71-1911 Lowest Max 20-1957 Lowest Min 7-1963 Highest Min 45-1994 Greatest ppt .52-1967		Highest Max 74-1914 Lowest Max 21-1948 Lowest Min 1-1963 Highest Min 52-1968 Greatest ppt .85-1968		Highest Max 82-1909 Lowest Max 21-1972 Lowest Min 3-1948 Highest Min 59-1968 Greatest ppt .69-1989			
Normal 29	Actual	Normal 30	Actual	Normal 31	Actual										
47.0 max 25.0 min .08 ppt 29 hdd 0 cdd	Actual	45.0 max 25.0 min .10 ppt 30 hdd 0 cdd	Actual	46.0 max 25.0 min .11 ppt 29 hdd 0 cdd	Actual										
Highest Max 76-1947 Lowest Max 14-1966 Lowest Min -2-1949 Highest Min 50-1982 Greatest ppt .99-1969		Highest Max 74-1931 Lowest Max 15-1949 Lowest Min -6-1949 Highest Min 58-1987 Greatest ppt 1.73-1975		Highest Max 76-1989 Lowest Max 12-1985 Lowest Min -5-1979 Highest Min 43-1973 Greatest ppt 2.13-1983											

JANUARY AVERAGES

TEMPERATURE : 35.3°F
 PRECIPITATION : 1.57"
 HEATING DEGREE DAYS : 912
 COOLING DEGREE DAYS : 0