OKLAHOMA
MONTHLY SUMMARY
OCTOBER 1994

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MONTHLY SUMMARY FOR OCTOBER 1994

Oklahoma's temperature and precipitation were both slightly above normal in October. The statewide average precipitation for the month, 3.34 inches, was .27 inch greater than normal. Temperatures averaged 62.8 degrees, .7 degree above normal. Through the first 10 months of 1994, the average temperature in the state is a near-normal 63.3 degrees. Oklahoma reporting stations have received an average of 29.43 inches of precipitation during the year, so far. Precipitation across the state for the year is .72 inch less than normal.

Thunderstorms lashed many areas of north central Oklahoma on the 2nd. Dime to golf ball sized hail was reported in Woods, Woodward, Major, Alfalfa, Garfield and Kingfisher counties. Vance Air Force Base (Garfield) reported a wind gust of 76 miles per hour and 2.64 inches of rain. High water closed Highway 81 between Bison and Hennessey. Another round of thunderstorms developed in southwestern Oklahoma on the 3rd, producing large hail in several counties.

A strong cold front moved through the state on the 7th, triggering strong thunderstorms in eastern Oklahoma and bringing subfreezing temperatures to northwestern Oklahoma in its wake. Large hail was reported in Washington, Craig, Nowata, Okfuskee, Creek and Okmulgee counties. The Oklahoma Mesonet site near Vinita recorded a wind gust of 74 miles per hour. Jay Tower, Upper Spavinaw State Park, Miami, Chelsea, Bristow and Ashland each received over 3 inches of rain. Freedom, Waynoka, Guymon, Hammon, Kenton and Gage each reported a temperature of 32 degrees or less at least once from the 8th through the 13th.

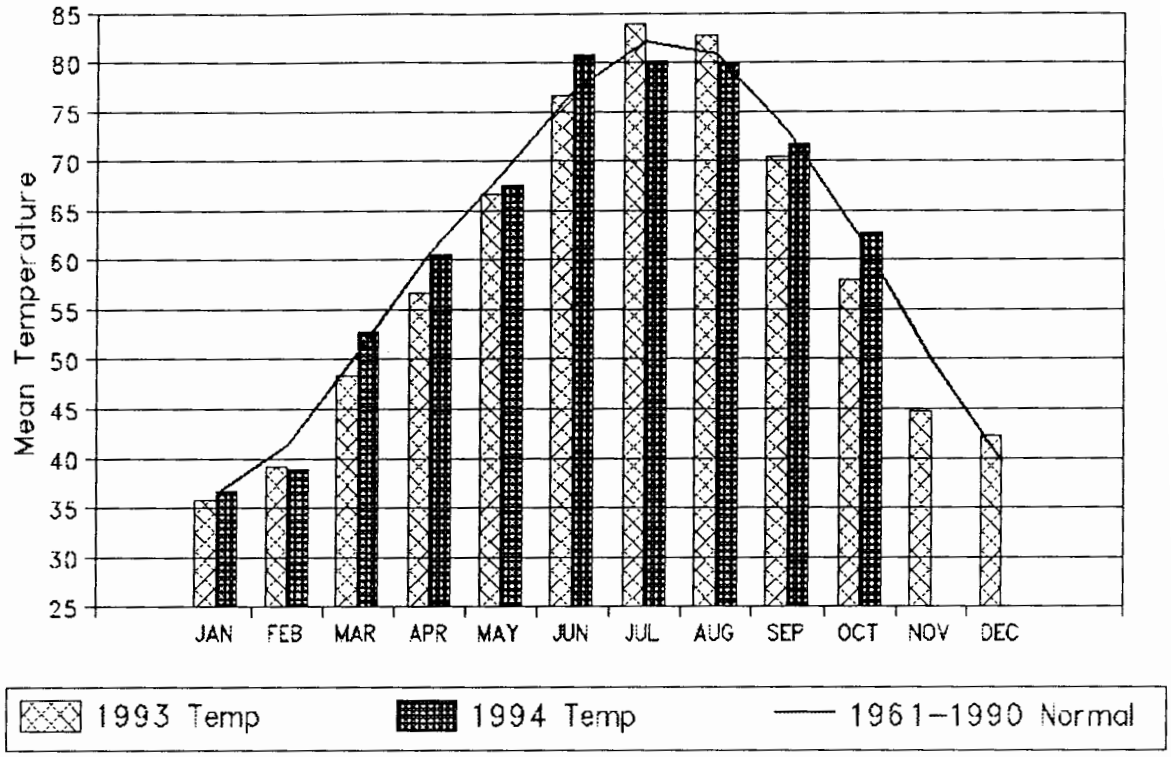
Another cold front entered the state on the 17th but stalled in its southeastward progression and lingered in the state through the 20th, leading to widespread precipitation. A pair of weak tornadoes touched down briefly five miles south of Aline (Alfalfa) and approximately six miles northwest of Ringwood (Major) on the 17th. Weatherford (Custer), Taloga (Dewey) and Short (Sequoyah) each reported one-day precipitation totals of more than 3 inches. Large hail and damaging winds were reported at several locations in northeastern Oklahoma during early morning on the 20th. Large tree limbs were reported down in Cookson (Cherokee) and large hail was reported in Washington, Tulsa, Rogers and Mayes counties. Afternoon and evening thunderstorms in southwestern Oklahoma on the 20th produced large hail in Roger Mills, Dewey, Greer and Jackson counties. Large hail and high winds were reported later that night in Comanche, Jefferson, Cotton, Love and Bryan counties.

The first hard freeze of the season was ushered in by a cold front that passed through the state on the 24th and 25th. The temperature at Freedom (Woods) dropped to 22 degrees on the 26th. Other low temperature reports included 24 degrees at Hulah Dam (Osage) and 25 degrees at Stilwell (Adair). Although far western and most of southern Oklahoma avoided freezing temperatures, several Oklahoma Mesonet stations in southeastern Oklahoma including those near Antlers, Clayton and Cloudy (all in Pushmataha County) and Mount Herman (McCurtain County), as well as the cooperative stations at Antlers and Tuskahoma (Pushmataha) reported subfreezing temperatures at least once on the 26th and 27th.

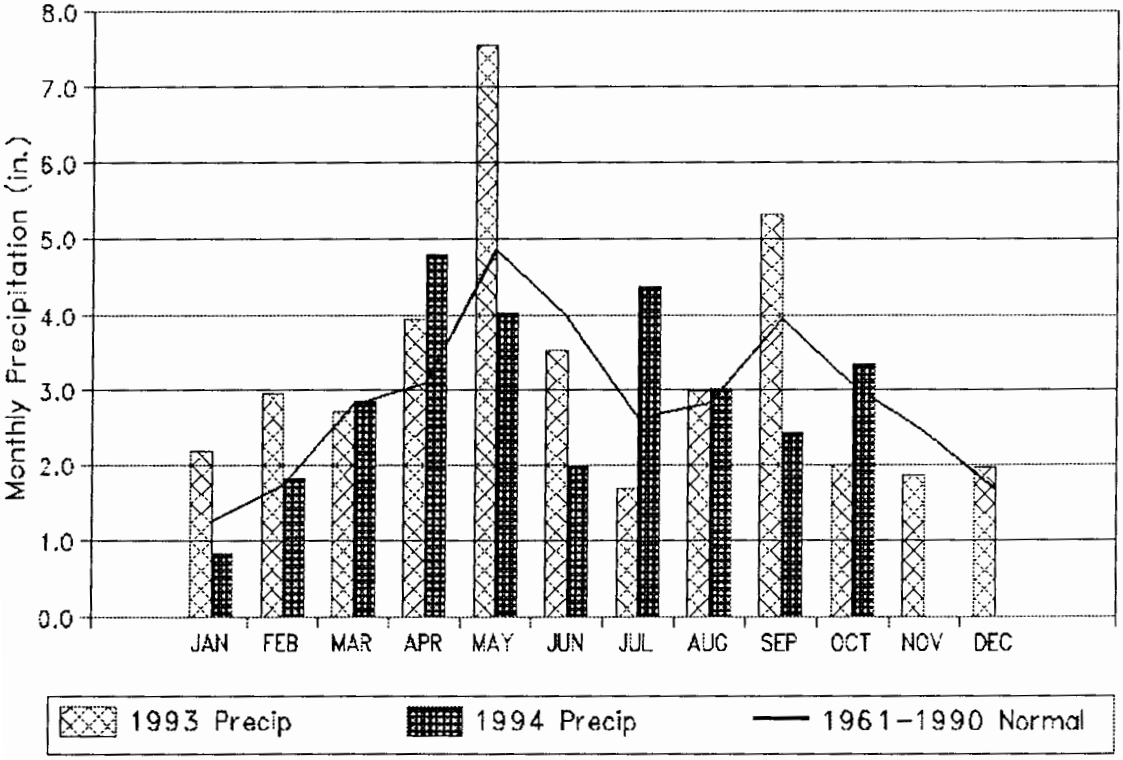
Thunderstorms provided fireworks in many areas on the night before Halloween. Trees and power lines were blown down in Butler (Custer), Perry (Noble) and Pawnee. Winds in Glenpool (Tulsa) tore awnings loose from some buildings. The Mesonet site near Weatherford (Custer) reported winds of 72 miles per hour.

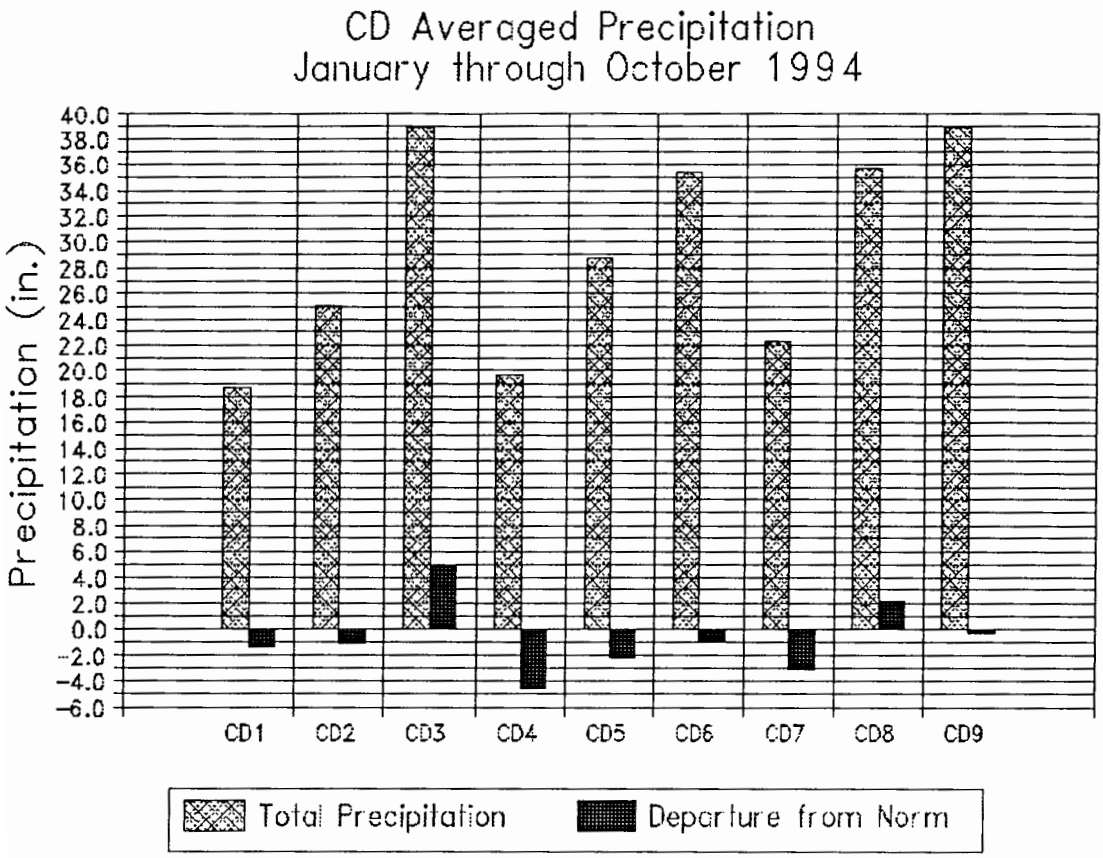
Howard L. Johnson

1993 and 1994 STATEWIDE TEMPERATURES
Monthly Averages

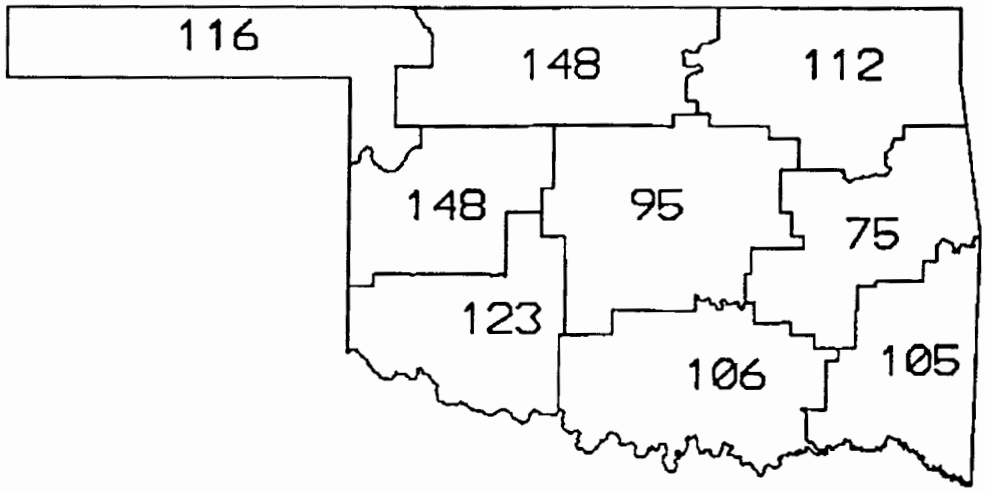


1993 and 1994 STATEWIDE PRECIPITATION
Monthly Totals





CD PERCENT OF NORMAL PRECIPITATION



OCTOBER 1994

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

CD	MAX TEMP	DATE	LOCATION	MIN TEMP	DATE	LOCATION	24-HOUR PRECIP	DATE	LOCATION	MONTHLY PRECIP	LOCATION
1	99	1	BUFFALO	27	26	GAGE	1.57	5	LAVERNE	3.66	GATE
2	96	1	ALVA	22	26	FREEDOM	2.64	17	ORIENTA	7.63	HELENA
				22	27	FREEDOM					
3	90	1	BARTLESVILLE	24	26	HULAH DAM	3.45	8	JAY TOWER	7.14	LENAPAH
	90	1	BIXBY				3.45	8	UPPER SPAVIN		
	90	3	HULAH DAM								
	90	1	JAY TOWER								
4	92	1	REYDON	28	26	HAMMON	3.60	16	WEATHERFORD	6.22	TALOGA
	92	2	REYDON								
5	91	1	GUTHRIE	29	26	BRISTOW	3.11	8	BRISTOW	6.40	SHAWNEE
	91	1	HENNESSEY								
	91	1	KINGFISHER								
6	95	1	MCCURTAIN	25	26	STILWELL	3.00	8	ASHLAND	5.25	CLAYTON
	95	1	WEBBERS FALLS								
7	98	3	CHATTANOOGA	29	27	ANADARKO	3.50	17	HOLLIS	5.86	RANDLETT
8	93	3	ATOKA DAM	31	26	ADA	2.80	7	KETCHUM RANCH	6.53	MADILL
	93	1	MCGEE CREEK	31	26	PAULS VALLEY					
	93	4	WAURIKA DAM								
9	95	5	BEAR MT TWR	26	27	SMITHVILLE	4.30	8	SMITHVILLE	7.38	SMITHVILLE
	95	1	IDABEL								

TABLE OF 1993/1994 COMPARISONS

	OCTOBER Temperature (°F)		OCTOBER Precipitation (in.)	
Station	1993	1994	1993	1994
Arnett	54.6	59.2	0.24	1.83
Enid	58.6	62.5	0.20	4.23
Mutual	56.5	59.5	0.18	2.07
Tulsa	57.6	63.7	0.98	3.58
Elk City	59.3	65.2	0.51	2.67
Oklahoma City	57.1	62.6	0.47	1.89
McAlester	61.0	65.3	3.17	3.02
Altus Irr Sta	60.8	65.0	0.94	1.83
Durant	59.3	65.0	4.40	6.49
Ada	58.8	63.6	0.95	2.78
Hugo	61.2	65.0	7.96	5.91

EXTREMES

Variable	Station	Division	Observation	Date
Minimum temperature (°F)	Freedom	2	22	27
Maximum temperature (°F)	Buffalo	1	99	1
Maximum 24-hour precipitation	Smithville	9	4.30"	8

OCTOBER 1994 SUMMARY FOR NORTHWEST DIVISION (CD1)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
ARNETT	332	1	59.2	31	.4	88.	2	33.	27	214.0	-9.0	35.5	4.5	1.832	31	.00	.81	31
BEAVER	593	1	59.9	31	2.3	94.	1	32.	10	199.5	-47.5	40.0	23.0	1.820	31	.63	.60	31
BOISE CITY 2 E	908	1	57.4	31	.2	90.	1	31.	9	247.5	-6.5	11.5	-1.5	.811	31	-.05	.35	16
BUFFALO	1243	1	61.9	31	.3	99.	1	28.	26	168.5	12.5	72.0	21.0	1.600	31	-.34	.55	5
FARGO	3070	1	*****	0	*****	****	0	****	0	******	******	******	******	1.701	31	.06	.77	31
GAGE FAA APT	3407	1	59.8	31	-.6	90.	1	27.	26	215.5	30.5	54.5	12.5	1.476	31	-.08	.86	31
GATE	3489	1	60.7	31	1.4	94.	1	35.	26	178.5	-26.5	45.5	17.5	3.664	31	2.25	1.55	17
GUYMON	3835	1	59.0	26	*****	83.	12	31.	9	174.5	******	18.5	******	.321	26	*****	.22	5
HOOKER	4298	1	58.1	31	-.1	93.	1	33.	27	232.5	-7.5	19.5	-9.5	1.110	31	.17	.43	31
KENTON	4766	1	56.6	31	.9	93.	1	32.	9	272.0	-27.0	12.5	1.5	1.075	31	.12	.52	14
LAVERNE	5045	1	*****	0	*****	****	0	****	0	******	******	******	******	3.072	31	1.66	1.57	5
OPTIMA LAKE	6740	1	57.9	31	*****	94.	1	32.	26	249.0	******	28.0	******	1.690	31	*****	.55	31
REGNIER	7534	1	*****	0	*****	****	0	****	0	******	******	******	******	1.471	31	.71	.45	15
TURPIN 4 SSE	9017	1	57.4	31	*****	92.	1	33.	10	253.0	******	17.5	******	1.671	31	*****	.53	31

OCTOBER 1994 SUMMARY FOR NORTH CENTRAL DIVISION (CD2)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
ALVA	193	2	61.9	31	*****	96.	1	31.	27	164.5	******	68.0	******	1.960	31	*****	1.11	31
VANCE AFB	302	2	*****	0	*****	****	0	****	0	******	******	******	******	4.574	30	*****	2.13	3
BILLINGS	755	2	61.8	31	.9	90.	2	29.	27	169.5	2.5	70.0	30.0	2.741	31	.01	.90	31
BLACKWELL 2E	818	2	64.0	31	2.8	93.	1	36.	26	103.0	-53.0	71.5	32.5	3.190	31	.49	1.53	31
BRAMAN	1075	2	*****	0	*****	****	0	****	0	******	******	******	******	3.620	31	*****	1.60	31
CEDARDALE	1620	2	*****	0	*****	****	0	****	0	******	******	******	******	4.320	31	*****	1.25	31
CHEROKEE	1724	2	61.5	31	-.7	93.	1	33.	26	168.0	34.0	60.5	13.5	5.191	31	3.28	2.55	17
ENID	2912	2	62.5	31	.1	91.	1	35.	26	143.0	6.0	65.5	9.5	4.230	31	1.12	1.03	17
FT SUPPLY DAM	3304	2	60.0	29	*****	91.	3	34.	9	192.5	******	46.5	******	2.620	31	1.08	1.38	5
FREEDOM	3358	2	57.8	31	-3.2	94.	2	22.	27	263.5	102.5	39.5	2.5	1.840	31	-.02	.72	31
GREAT SALT PLNS	3740	2	61.5	31	.9	94.	2	34.	26	172.0	-5.0	62.0	21.0	6.750	31	4.69	2.16	17
HARDY	3909	2	*****	0	*****	****	0	****	0	******	******	******	******	2.404	31	*****	1.10	30
HELENA 1 SSE	4019	2	61.2	31	1.4	93.	2	34.	26	176.5	-16.5	59.0	28.0	7.630	31	5.54	2.35	17
JEFFERSON	4573	2	62.0	31	.0	95.	1	30.	26	160.0	18.0	67.5	18.5	4.531	31	1.88	1.66	30
LAMONT	5013	2	*****	0	*****	****	0	****	0	******	******	******	******	2.980	31	*****	1.39	31
MEDFORD	5768	2	*****	0	*****	****	0	****	0	******	******	******	******	4.990	31	*****	1.51	30
MORRISON	6065	2	*****	0	*****	****	0	****	0	******	******	******	******	2.340	31	*****	.75	18
MUTUAL	6139	2	59.5	31	.1	93.	2	34.	26	218.5	15.5	48.5	19.5	2.070	31	.39	.77	31
NEWKIRK	6278	2	62.0	31	.4	90.	1	31.	26	154.5	7.5	61.0	20.0	2.500	31	-.73	1.34	31
ORIENTA	6751	2	*****	0	*****	****	0	****	0	******	******	******	******	5.180	31	3.30	2.64	17
PERRY	7012	2	63.0	31	.2	90.	1	32.	26	141.0	14.0	80.5	21.5	1.650	31	-1.13	.63	31
PONCA CITY FAA	7201	2	63.2	31	2.5	92.	1	32.	26	130.5	-40.5	73.5	35.5	1.595	31	-1.33	.86	31
RED ROCK 1 NNE	7505	2	*****	0	*****	****	0	****	0	******	******	******	******	1.400	31	-1.39	.63	31
WAYNOKA	9404	2	60.8	31	-.9	93.	1	29.	26	190.0	25.0	59.5	-3.5	3.050	31	1.30	1.01	5
WOODWARD	9760	2	*****	0	*****	****	0	****	0	******	******	******	******	2.303	31	.43	1.12	31

OCTOBER 1994 SUMMARY FOR NORTHEAST DIVISION (CD3)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
BARNSDALL	535	3	61.1	31	-.3	87.	1	26.	26	166.0	7.0	46.0	-4.0	2.511	31	-.68	.82	8
BARTLESVILLE 2W	548	3	62.3	31	.7	90.	1	28.	26	147.5	-2.5	64.5	19.5	4.971	31	1.67	1.70	21
BIXBY	782	3	63.0	31	2.5	90.	1	31.	27	136.5	-40.5	76.0	38.0	3.580	31	-.12	2.00	8
BURBANK	1256	3	*****	0	*****	****	0	****	0	******	******	******	******	2.692	31	-.40	.90	31
CHELSEA 4 S	1717	3	*****	0	*****	****	0	****	0	******	******	******	******	5.140	31	*****	3.18	8
CLAREMORE	1828	3	62.1	31	1.7	88.	1	31.	27	150.5	-30.5	60.5	21.5	6.140	31	2.58	2.46	19
CLEVELAND 5 WSW	1902	3	63.1	31	*****	87.	1	31.	26	134.0	******	76.0	******	1.970	31	*****	.95	8
FORAKER	3250	3	*****	0	*****	****	0	****	0	******	******	******	******	2.310	31	-1.13	.85	31
HOLLOW	4258	3	*****	0	*****	****	0	****	0	******	******	******	******	5.290	31	1.66	2.55	8
HOMINY	4289	3	*****	0	*****	****	0	****	0	******	******	******	******	1.864	31	-1.10	.84	8
HULAH DAM	4393	3	58.9	20	*****	90.	3	24.	26	143.5	******	21.5	******	3.191	22	*****	1.14	31
JAY TOWER	4567	3	62.1	31	*****	90.	1	27.	27	166.5	******	77.5	******	5.030	31	*****	3.45	8
KANSAS 1 ESE	4672	3	61.8	28	*****	83.	6	29.	26	140.0	******	50.5	******	4.126	30	*****	2.30	8
KEYSTONE DAM	4812	3	62.2	25	*****	89.	2	27.	27	133.5	******	63.5	******	3.102	26	*****	1.91	8
LENAPAH	5118	3	*****	0	*****	****	0	****	0	******	******	******	******	7.140	31	*****	2.80	21
MANNFORD 6 NW	5522	3	63.1	28	*****	88.	1	28.	26	120.5	******	68.0	******	2.671	29	*****	1.03	19
MARAMEC	5540	3	*****	0	*****	****	0	****	0	******	******	******	******	1.630	31	-1.39	.67	8
MIAMI	5855	3	59.7	29	*****	89.	4	26.	27	190.0	******	37.0	******	6.191	31	2.46	2.47	8
NOWATA	6485	3	62.0	31	.7	88.	1	30.	26	152.0	-8.0	57.5	12.5	5.680	31	2.34	1.97	31
PAWHUSKA	6935	3	61.7	31	.5	88.	1	28.	26	161.5	4.5	58.5	19.5	3.901	31	.70	1.01	7
PAWNEE	6940	3	*****	0	*****	****	0	****	0	******	******	******	******	1.830	31	-1.00	.60	8
PRYOR 6 N	7309	3	61.5	31	1.5	87.	1	29.	27	160.5	-32.5	53.5	15.5	5.073	31	1.26	1.86	8
RALSTON	7390	3	62.2	31	.6	89.	2	28.	26	153.0	11.0	66.0	29.0	2.641	31	-.25	.60	31
RAMONA 4 N	7394	3	*****	0	*****	****	0	****	0	******	******	******	******	2.740	31	*****	1.04	17
SKIATOOK	8258	3	*****	0	*****	****	0	****	0	******	******	******	******	3.170	31	-.01	1.80	8
SPAVINAW	8380	3	65.1	31	2.0	87.	4	36.	26	96.5	-30.5	100.5	32.5	5.072	31	1.38	1.79	8
TULSA WSO APT	8992	3	63.7	31	1.5	88.	6	34.	26	126.5	-17.5	87.5	30.5	3.584	31	-.08	1.32	7
UPPER SPAVINAW	9101	3	63.8	28	*****	88.	3	29.	26	109.5	******	76.5	******	5.595	30	*****	3.45	8
VINITA 2 N	9203	3	62.1	28	*****	86.	6	29.	26	137.0	******	56.0	******	6.870	30	*****	2.37	8
WAGONER	9247	3	63.8	31	.9	87.	6	33.	26	113.5	-22.5	76.0	5.0	2.342	31	-1.78	.96	8
WANN	9298	3	*****	0	*****	****	0	****	0	******	******	******	******	4.500	31	*****	1.17	21
WYNONA	9792	3	*****	0	*****	****	0	****	0	******	******	******	******	2.440	31	*****	.61	8

OCTOBER 1994 SUMMARY FOR WEST CENTRAL DIVISION (CD4)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
CANTON DAM	1445	4	59.7	28	*****	90.	2	36.	26	183.0	******	35.5	******	4.260	28	*****	2.12	17
CHEYENNE	1738	4	*****	0	*****	****	0	****	0	******	******	******	******	1.100	31	-.98	.50	15
CLINTON	1909	4	62.4	31	-.1	90.	2	33.	26	157.0	29.0	75.0	24.0	3.153	31	.33	1.77	17
COLONY	2039	4	*****	0	*****	****	0	****	0	******	******	******	******	3.011	31	*****	1.03	17
CORDELL	2125	4	*****	0	*****	****	0	****	0	******	******	******	******	3.551	31	1.03	1.93	17
ELK CITY 1 E	2849	4	65.2	24	*****	90.	2	41.	12	62.0	******	66.0	******	2.671	25	*****	1.77	17
ERICK 4 E	2944	4	61.5	31	.0	91.	2	31.	26	169.5	27.5	59.5	26.5	2.620	31	.46	1.08	17
GEARY	3497	4	65.2	27	*****	90.	3	39.	31	80.5	******	87.0	******	.900	27	*****	.54	8
HAMMON 1 NNE	3871	4	58.7	30	-.8	89.	3	28.	26	224.5	21.5	34.0	1.0	2.301	30	*****	1.35	17
LEEDEY	5090	4	*****	0	*****	****	0	****	0	******	******	******	******	3.150	31	1.25	1.15	9
MACKIE 4 NNW	5463	4	*****	0	*****	****	0	****	0	******	******	******	******	2.380	31	*****	1.06	6
MORAVIA 2 NNE	6035	4	*****	0	*****	****	0	****	0	******	******	******	******	3.630	31	1.24	1.50	17
OKEENE	6629	4	61.6	31	-1.2	91.	1	33.	26	165.5	40.5	60.5	3.5	5.480	31	3.03	2.25	17
RETROP	7565	4	*****	0	*****	****	0	****	0	******	******	******	******	3.270	31	*****	1.40	17
REYDON	7579	4	66.2	31	5.6	92.	2	38.	26	68.5	-103.5	105.0	69.0	1.552	31	-.10	.78	5
SAYRE	7952	4	*****	0	*****	****	0	****	0	******	******	******	******	2.631	31	.47	1.53	17
SWEETWATER 2 E	8652	4	*****	0	*****	****	0	****	0	******	******	******	******	1.361	31	*****	.60	21
TALOGA	8708	4	60.2	31	-.5	90.	2	30.	26	204.0	41.0	55.5	26.5	6.222	31	4.22	3.50	17
THOMAS	8815	4	*****	0	*****	****	0	****	0	******	******	******	******	4.240	31	*****	1.97	17
VICI	9172	4	*****	0	*****	****	0	****	0	******	******	******	******	2.440	31	.48	.90	31
WATONGA	9364	4	62.1	31	.4	91.	1	34.	26	159.0	12.0	69.5	24.5	2.682	31	.30	.86	17
WEATHERFORD	9422	4	61.9	30	1.2	91.	2	35.	25	165.0	-2.0	72.5	38.5	4.631	30	*****	3.60	16

OCTOBER 1994 SUMMARY FOR CENTRAL DIVISION (CD5)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
AMBER	200	5	*****	0	*****	****	0	****	0	******	******	******	******	2.280	31	*****	.84	8
ARCADIA	288	5	*****	0	*****	****	0	****	0	******	******	******	******	3.080	31	*****	1.47	18
TINKER AFB	325	5	*****	0	*****	****	0	****	0	******	******	******	******	2.442	30	*****	1.01	7
BLANCHARD 2 SSW	830	5	64.4	31	1.0	89.	2	34.	26	110.0	-11.0	90.0	19.0	2.342	31	-1.03	1.20	8
BRISTOW	1144	5	63.0	31	.0	87.	3	29.	26	133.5	2.5	73.0	4.0	4.523	31	1.37	3.11	8
CHANDLER	1684	5	64.1	27	*****	88.	2	33.	26	98.0	******	73.5	******	1.540	28	*****	.82	8
CHICKASHA EX ST	1750	5	64.2	31	1.2	90.	4	33.	26	121.0	-4.0	97.0	34.0	3.590	31	.34	1.10	8
COX CITY 1 E	2196	5	*****	0	*****	****	0	****	0	******	******	******	******	5.250	31	*****	2.84	8
CRESCENT	2242	5	*****	0	*****	****	0	****	0	******	******	******	******	2.130	31	*****	.60	8
CUSHING	2318	5	63.2	30	1.6	88.	1	36.	27	123.0	-31.0	70.0	21.0	1.100	30	*****	.72	18
EL RENO 1 N	2818	5	62.9	30	.8	88.	3	33.	26	136.5	.5	74.0	28.0	3.320	31	.80	1.44	4
GUTHRIE	3821	5	64.6	31	1.5	91.	1	33.	26	107.0	-12.0	94.5	34.5	2.010	30	*****	.78	8
HENNESSEY 4 ESE	4055	5	62.1	31	-.1	91.	1	33.	26	152.0	9.0	62.5	6.5	3.102	31	.76	.68	31
INGALLS	4489	5	*****	0	*****	****	0	****	0	******	******	******	******	2.441	31	*****	.79	8
KINGFISHER 2 SE	4861	5	62.3	31	-.5	91.	1	31.	26	153.0	29.0	70.0	14.0	1.690	31	-.64	.60	6
KONAWA	4915	5	*****	0	*****	****	0	****	0	******	******	******	******	4.361	31	.29	2.34	8
MARSHALL	5589	5	*****	0	*****	****	0	****	0	******	******	******	******	3.170	31	.42	.98	4
MEEKER 4 W	5779	5	62.9	31	.2	86.	4	31.	26	137.5	3.5	73.0	11.0	2.890	31	-.65	1.61	7
MULHALL	6110	5	*****	0	*****	****	0	****	0	******	******	******	******	2.280	31	*****	.62	31
NORMAN 3 S	6386	5	64.0	31	.7	90.	3	33.	26	126.5	14.5	95.5	36.5	3.080	31	-.15	1.65	8
OILTON 2 SE	6616	5	*****	0	*****	****	0	****	0	******	******	******	******	2.722	31	*****	1.25	18
OKEMAH	6638	5	66.4	31	3.3	90.	3	39.	27	74.0	-51.0	118.5	51.5	3.110	31	-.73	2.00	8
OKLAHOMA CTY WS	6661	5	62.6	31	.6	88.	3	35.	26	141.5	4.5	66.5	22.5	1.886	31	-1.34	.88	7
PERKINS	7003	5	*****	0	*****	****	0	****	0	******	******	******	******	2.150	31	-.82	.78	8
PIEDMONT	7068	5	*****	0	*****	****	0	****	0	******	******	******	******	1.550	31	*****	.65	8
PRAGUE	7264	5	*****	0	*****	****	0	****	0	******	******	******	******	3.354	31	-.48	2.00	7
PURCELL 5 SW	7327	5	63.6	31	.4	89.	4	31.	26	128.5	9.5	86.0	23.0	5.002	31	1.06	2.30	8
SEMINOLE	8042	5	65.0	31	.6	88.	4	33.	26	100.0	6.0	98.5	23.5	2.720	31	-1.13	1.43	8
SHAWNEE	8110	5	*****	0	*****	****	0	****	0	******	******	******	******	6.400	31	2.33	2.94	8
STILLWATER 2 W	8501	5	62.0	31	1.5	89.	1	30.	27	158.0	-10.0	64.5	36.5	1.910	31	-.92	.47	8
STROUD 1 N	8563	5	*****	0	*****	****	0	****	0	******	******	******	******	3.673	31	*****	2.66	8
TECUMSEH	8751	5	*****	0	*****	****	0	****	0	******	******	******	******	3.230	31	*****	2.00	7
TROUSDALE	8960	5	*****	0	*****	****	0	****	0	******	******	******	******	3.660	31	*****	1.92	9
UNION CITY 1 SE	9086	5	*****	0	*****	****	0	****	0	******	******	******	******	1.982	31	-1.29	.76	8
WELTY 1 SSE	9479	5	*****	0	*****	****	0	****	0	******	******	******	******	3.153	31	*****	2.34	8
WEWOKA	9575	5	*****	0	*****	****	0	****	0	******	******	******	******	3.550	31	-.16	1.80	8

OCTOBER 1994 SUMMARY FOR EAST CENTRAL DIVISION (CD6)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
ASHLAND	364	6	*****	0	*****	****	0	****	0	******	******	******	******	3.802	31	*****	3.00	8
BEGGS	631	6	*****	0	*****	****	0	****	0	******	******	******	******	3.181	31	*****	2.24	8
BOYNTON	1027	6	*****	0	*****	****	0	****	0	******	******	******	******	1.842	31	*****	1.22	8
CALVIN	1391	6	*****	0	*****	****	0	****	0	******	******	******	******	1.900	31	-2.20	1.20	8
CHECOTAH	1711	6	*****	0	*****	****	0	****	0	******	******	******	******	2.152	31	-2.08	1.54	8
CLAYTON 14 WNW	1858	6	*****	0	*****	****	0	****	0	******	******	******	******	5.250	31	*****	2.92	8
DUSTIN	2690	6	*****	0	*****	****	0	****	0	******	******	******	******	2.550	31	*****	1.64	8
EUFAULA	2993	6	*****	0	*****	****	0	****	0	******	******	******	******	3.344	31	-.78	1.73	8
HANNA	3884	6	63.8	31	.8	90.	3	30.	27	119.0	1.0	82.5	26.5	3.185	31	-.97	1.64	8
HARTSHORNE	3946	6	*****	0	*****	****	0	****	0	******	******	******	******	3.340	31	*****	2.28	8
HASKELL	3956	6	*****	0	*****	****	0	****	0	******	******	******	******	2.230	31	-1.84	1.42	8
HOLDENVILLE	4235	6	63.9	31	.3	89.	4	31.	26	124.0	8.0	89.5	16.5	2.950	31	-1.25	1.71	8
LAKE EUFAULA	4975	6	63.8	29	*****	93.	1	32.	26	124.5	******	90.0	******	2.872	31	*****	1.71	8
LYONS 2 N	5437	6	*****	0	*****	****	0	****	0	******	******	******	******	3.630	31	.15	1.35	8
MARBLE CITY	5546	6	*****	0	*****	****	0	****	0	******	******	******	******	4.004	31	*****	2.70	9
MCALESTER FAA	5664	6	65.3	31	2.2	91.	3	31.	26	107.5	-22.5	116.0	45.0	3.022	31	-1.56	1.53	7
MCCURTAIN 1 SE	5693	6	64.5	31	.8	95.	1	30.	27	113.0	-2.0	98.0	23.0	3.426	31	-.47	2.37	8
MUSKOGEE	6130	6	64.3	31	1.7	88.	6	31.	26	108.0	-26.0	85.0	25.0	2.350	31	-1.80	1.42	8
OKMULGEE W W	6670	6	62.3	29	*****	89.	4	28.	27	148.0	******	68.5	******	3.402	29	*****	1.89	8
OKTAHA 2 NE	6678	6	*****	0	*****	****	0	****	0	******	******	******	******	2.140	31	*****	1.55	8
SALLISAW 2 NE	7862	6	65.9	30	2.7	89.	6	37.	11	77.0	-48.0	104.5	35.5	.620	23	*****	.62	21
SCIPIO	7979	6	*****	0	*****	****	0	****	0	******	******	******	******	2.710	31	*****	1.65	8
SHORT	8170	6	*****	0	*****	****	0	****	0	******	******	******	******	4.620	31	*****	1.75	8
STILWELL 1 NE	8506	6	61.2	31	-.1	87.	1	25.	26	173.5	13.5	55.0	10.0	3.280	31	-.80	2.21	8
TAHLEQUAH	8677	6	62.0	19	*****	90.	1	27.	26	113.5	******	56.0	******	3.060	31	-1.15	2.18	8
WEBBERS FALLS	9445	6	63.6	31	2.2	95.	1	27.	27	134.0	-19.0	91.5	50.5	2.092	31	-2.43	1.56	8
WETUMKA 3 NE	9571	6	*****	0	*****	****	0	****	0	******	******	******	******	3.100	31	-.74	1.41	8

OCTOBER 1994 SUMMARY FOR SOUTHWEST DIVISION (CD7)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
ALTUS IRR STA	179	7	65.0	31	.4	94.	6	33.	26	117.0	17.0	118.5	30.5	1.830	31	-.54	.45	8
ALTUS DAM	184	7	63.7	31	1.2	93.	4	35.	27	140.0	8.0	100.0	45.0	1.850	31	-.89	.57	8
ANADARKO	224	7	63.0	31	.6	90.	4	29.	27	143.5	14.5	80.5	32.5	1.720	30	*****	.78	1
APACHE	260	7	*****	0	*****	****	0	****	0	******	******	******	******	3.850	31	1.04	.80	21
ALTUS AFB	447	7	*****	0	*****	****	0	****	0	******	******	******	******	.674	30	*****	.46	31
CARNEGIE 2 ENE	1504	7	63.3	30	.3	90.	2	34.	26	134.5	16.5	83.0	27.0	2.044	31	-.35	.66	7
CHATTANOOGA	1706	7	65.0	29	*****	98.	3	36.	26	103.5	******	103.0	******	4.020	29	*****	1.61	21
DUNCAN 11 W	2668	7	*****	0	*****	****	0	****	0	******	******	******	******	5.252	31	*****	1.93	24
FREDERICK	3353	7	65.4	29	*****	96.	4	39.	27	104.0	******	115.0	******	3.140	29	*****	1.04	8
GRANDFIELD 4 NW	3709	7	*****	0	*****	****	0	****	0	******	******	******	******	3.130	31	.26	1.32	21
HEADRICK	3998	7	*****	0	*****	****	0	****	0	******	******	******	******	1.290	31	*****	.46	7
HOBART FAA APT	4204	7	63.5	31	.6	92.	3	35.	26	140.0	13.0	92.0	30.0	3.551	31	.90	1.70	17
HOLLIS	4249	7	63.6	31	.3	94.	3	36.	26	127.5	9.5	85.0	20.0	4.982	31	2.81	3.50	17
LAWTON	5063	7	64.2	30	1.6	93.	4	38.	27	123.0	-7.0	97.5	41.5	3.331	30	*****	1.32	8
FORT SILL	5068	7	63.2	31	*****	93.	3	37.	26	139.5	******	83.0	******	3.941	31	*****	1.54	7
LOOKEBA 2 ENE	5329	7	*****	0	*****	****	0	****	0	******	******	******	******	2.041	31	-.69	.63	8
MANGUM RES STA	5509	7	63.5	31	-.3	92.	6	33.	26	141.5	31.5	94.0	21.0	2.070	31	-.59	.62	8
RANDLETT 9 E	7403	7	*****	0	*****	****	0	****	0	******	******	******	******	5.860	31	*****	2.64	8
ROOSEVELT	7727	7	*****	0	*****	****	0	****	0	******	******	******	******	1.680	31	-.88	.50	21
SEDAN	8016	7	*****	0	*****	****	0	****	0	******	******	******	******	3.660	31	*****	1.00	4
SNYDER	8299	7	*****	0	*****	****	0	****	0	******	******	******	******	2.260	31	-.27	.50	8
VINSON 3 WNW	9212	7	*****	0	*****	****	0	****	0	******	******	******	******	3.610	31	1.41	2.35	17
WALTERS	9278	7	65.9	26	*****	92.	2	36.	26	86.0	******	109.0	******	4.720	28	*****	2.20	21
WICHITA MT WLR	9629	7	61.3	31	-.2	89.	3	31.	27	179.5	25.5	64.0	18.0	3.020	31	.04	.82	5
WILLOW	9668	7	*****	0	*****	****	0	****	0	******	******	******	******	4.450	31	*****	1.51	17

OCTOBER 1994 SUMMARY FOR SOUTH CENTRAL DIVISION (CD8)

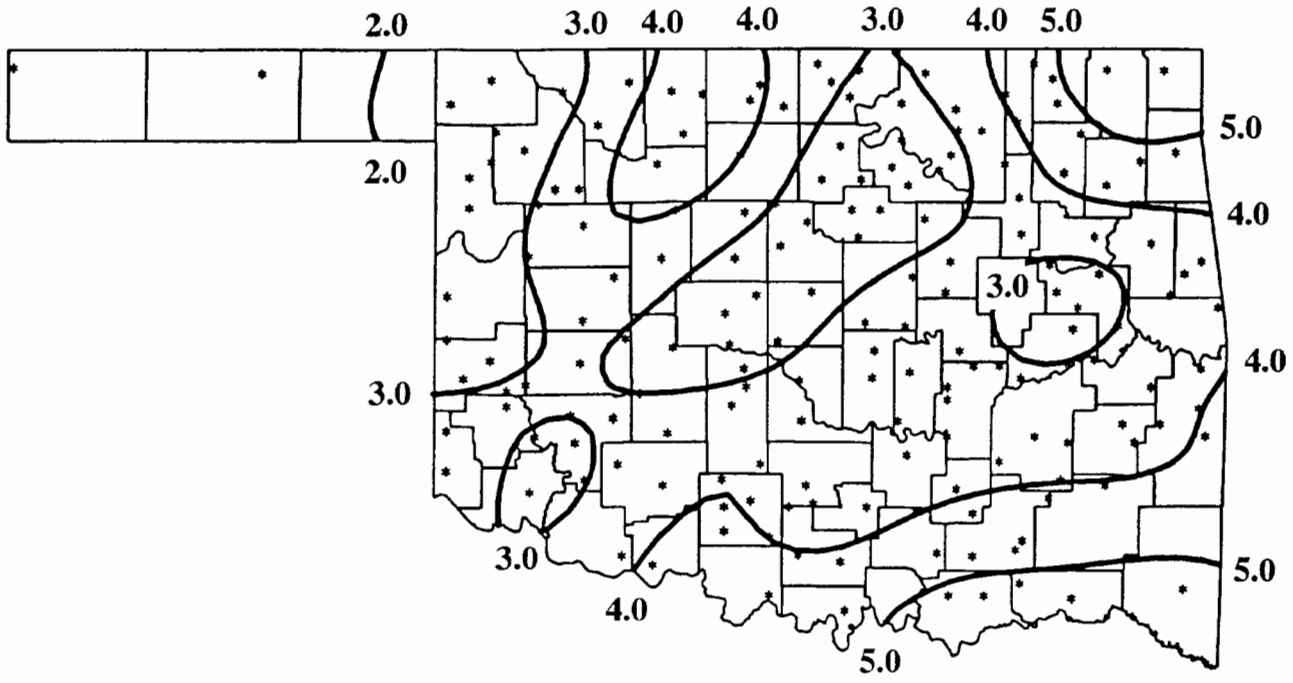
NAME	ID	CD	MEAN TEMP	NUM OBS	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
ADA	17	8	63.6	31	.0	87.	4	31.	26	139.0	11.0	96.5	12.5	2.781	31	-1.46	1.10	8
ALLEN	147	8	*****	0	*****	****	0	****	0	******	******	******	******	3.800	31	*****	2.00	6
ARDMORE	292	8	65.8	30	-.3	88.	3	36.	26	89.0	10.0	114.0	1.0	3.400	31	-.44	1.36	8
ATOKA DAM	394	8	64.6	21	*****	93.	3	34.	28	87.5	******	79.5	******	3.420	21	*****	1.66	10
BOKCHITO	917	8	*****	0	*****	****	0	****	0	******	******	******	******	4.850	31	*****	1.79	8
CANEY	1437	8	*****	0	*****	****	0	****	0	******	******	******	******	6.150	31	*****	2.23	8
CENTRAHOMA	1648	8	*****	0	*****	****	0	****	0	******	******	******	******	3.650	31	*****	2.00	8
CHICKASAW NRA	1745	8	65.9	31	3.5	90.	5	33.	26	103.5	-24.5	132.5	84.5	2.821	31	-1.70	1.21	8
COLEMAN	2011	8	*****	0	*****	****	0	****	0	******	******	******	******	4.840	31	*****	2.00	8
COMANCHE	2054	8	*****	0	*****	****	0	****	0	******	******	******	******	4.960	31	1.79	2.43	8
DAISY 4 ENE	2354	8	*****	0	*****	****	0	****	0	******	******	******	******	3.912	31	-.60	2.07	9
DUNCAN	2660	8	64.9	31	1.7	90.	4	38.	27	111.0	-11.0	107.0	41.0	2.690	31	-.67	.55	8
DURANT USDA	2678	8	65.0	31	1.6	92.	1	32.	26	115.0	-1.0	116.5	50.5	6.490	31	2.31	2.12	21
ELMORE CITY	2872	8	*****	0	*****	****	0	****	0	******	******	******	******	3.060	31	*****	1.88	8
FARRIS 3 WNW	3083	8	*****	0	*****	****	0	****	0	******	******	******	******	5.120	31	.88	2.26	8
GRADY	3688	8	*****	0	*****	****	0	****	0	******	******	******	******	4.630	31	*****	1.80	21
HEALDTON	4001	8	64.5	31	.5	91.	3	34.	26	121.0	19.0	105.5	34.5	3.340	31	-.24	1.52	8
HENNEPIN	4052	8	*****	0	*****	****	0	****	0	******	******	******	******	3.210	31	*****	1.79	8
KETCHUM RANCH	4780	8	*****	0	*****	****	0	****	0	******	******	******	******	3.910	31	*****	2.80	7
KINGSTON	4865	8	*****	0	*****	****	0	****	0	******	******	******	******	5.180	31	.91	1.63	21
LEHIGH	5108	8	*****	0	*****	****	0	****	0	******	******	******	******	3.304	31	*****	1.85	8
LINDSAY 2 W	5216	8	64.0	29	*****	89.	3	33.	27	120.5	******	92.5	******	5.140	30	*****	2.72	8
LOCO 6 SE	5247	8	*****	0	*****	****	0	****	0	******	******	******	******	3.970	31	*****	1.56	8
MADILL	5468	8	65.7	29	*****	90.	8	34.	26	89.0	******	108.0	******	6.530	30	*****	2.29	23
MARIETTA	5563	8	65.9	31	.7	91.	4	35.	26	96.0	13.0	123.0	33.0	5.770	31	2.07	1.74	8
MARLOW 1 WSW	5581	8	65.0	31	1.6	92.	3	32.	26	108.0	-10.0	108.5	40.5	4.900	31	1.32	2.29	8
MCGEE CREEK DAM	5713	8	65.3	31	*****	93.	1	34.	27	106.5	******	117.0	******	4.982	31	*****	2.61	8
PAULS VALLEY	6926	8	64.4	31	.4	91.	3	31.	26	123.5	23.5	103.5	34.5	4.220	31	.29	2.70	7
PONTOTOC	7214	8	*****	0	*****	****	0	****	0	******	******	******	******	4.541	31	.33	1.56	7
TISHOMINGO NWLR	8884	8	65.2	20	*****	91.	4	32.	26	87.0	******	91.0	******	6.010	21	*****	2.20	8
TUSSY	9032	8	*****	0	*****	****	0	****	0	******	******	******	******	3.300	31	*****	1.95	8
WAURIKA	9395	8	65.7	31	.6	92.	5	35.	26	105.5	19.5	126.5	37.5	3.382	31	.42	1.41	7
WAURIKA DAM	9399	8	66.3	28	*****	93.	4	36.	26	79.5	******	115.0	******	5.311	29	*****	2.32	21

OCTOBER 1994 SUMMARY FOR SOUTHEAST DIVISION (CD9)

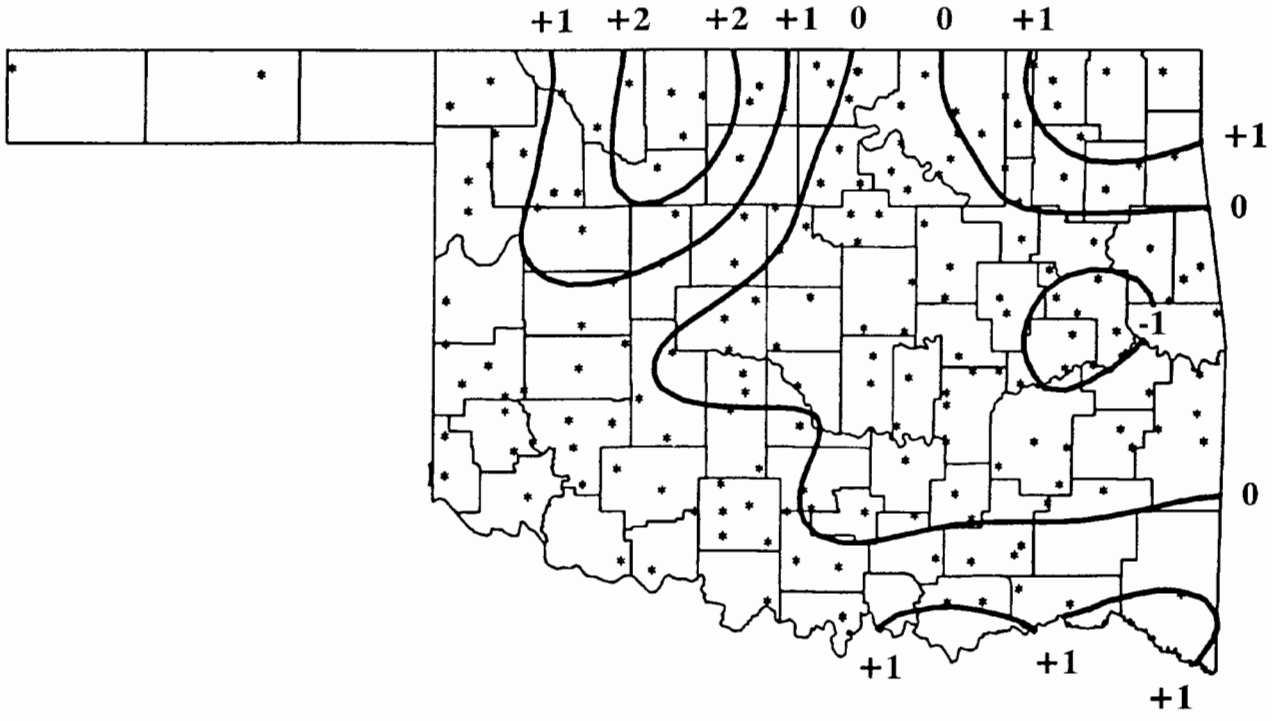
NAME	ID	CD	MEAN TEMP	NUM OBS	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
ANTLERS	256	9	64.2	31	.9	91.	2	30.	27	124.0	4.0	98.5	31.5	5.000	31	.42	1.50	7
BATTIEST 1 SSW	567	9	62.1	31	*****	89.	4	28.	27	161.5	******	71.0	******	6.460	31	*****	3.45	8
BEAR MT TWR	584	9	65.7	22	*****	95.	5	35.	28	68.5	******	84.5	******	4.981	30	*****	3.50	8
BENGAL	670	9	*****	0	*****	****	0	****	0	******	******	******	******	3.322	31	*****	2.12	8
BOSWELL 4 NNW	980	9	65.3	31	1.5	90.	1	34.	27	103.5	-2.5	112.5	43.5	4.251	31	.06	1.46	21
BROKEN BOW 1 N	1162	9	*****	0	*****	****	0	****	0	******	******	******	******	6.150	31	1.82	2.52	21
BROKEN BOW DAM	1168	9	65.0	31	2.4	94.	3	34.	27	113.0	-18.0	112.0	55.0	5.320	31	1.00	1.88	7
CARNASAW TWR	1499	9	*****	0	*****	****	0	****	0	******	******	******	******	3.370	22	*****	2.57	26
CARTER TWR	1544	9	*****	0	*****	****	0	****	0	******	******	******	******	6.040	31	.98	3.85	8
FANSHAWE	3065	9	*****	0	*****	****	0	****	0	******	******	******	******	4.990	31	1.10	2.22	8
HEAVENER 1 SE	4008	9	*****	0	*****	****	0	****	0	******	******	******	******	3.570	31	-.50	2.64	1
HEE MT TWR	4017	9	*****	0	*****	****	0	****	0	******	******	******	******	5.123	31	-.08	2.85	9
HUGO	4384	9	65.0	31	.2	89.	2	34.	27	101.0	9.0	100.0	14.0	5.913	31	1.67	2.80	21
IDABEL	4451	9	64.4	31	1.0	95.	1	34.	28	121.0	6.0	103.0	38.0	5.880	31	1.41	1.90	21
PINE CREEK DAM	7080	9	65.2	31	*****	92.	1	34.	26	109.5	******	114.5	******	4.954	31	*****	2.40	21
POTEAU W W	7254	9	63.8	31	*****	93.	1	27.	27	139.0	******	101.5	******	5.323	31	*****	2.10	7
SMITHVILLE 1 W	8285	9	61.8	31	.7	89.	4	26.	27	166.5	6.5	66.0	27.0	7.378	31	1.83	4.30	8
SPIRO	8416	9	*****	0	*****	****	0	****	0	******	******	******	******	3.945	31	.12	1.97	8
TUSKAHOMA	9023	9	64.6	31	.8	92.	4	27.	27	119.5	11.5	108.5	38.5	3.771	31	-.44	2.40	8
VALLIANT 3 W	9118	9	*****	0	*****	****	0	****	0	******	******	******	******	5.493	31	1.49	2.00	21
WILBURTON 9 ENE	9634	9	63.7	31	1.4	93.	1	27.	27	134.5	-5.5	94.0	37.0	2.663	31	-1.65	1.28	7

OCTOBER 1994 CLIMATE DIVISION SUMMARY

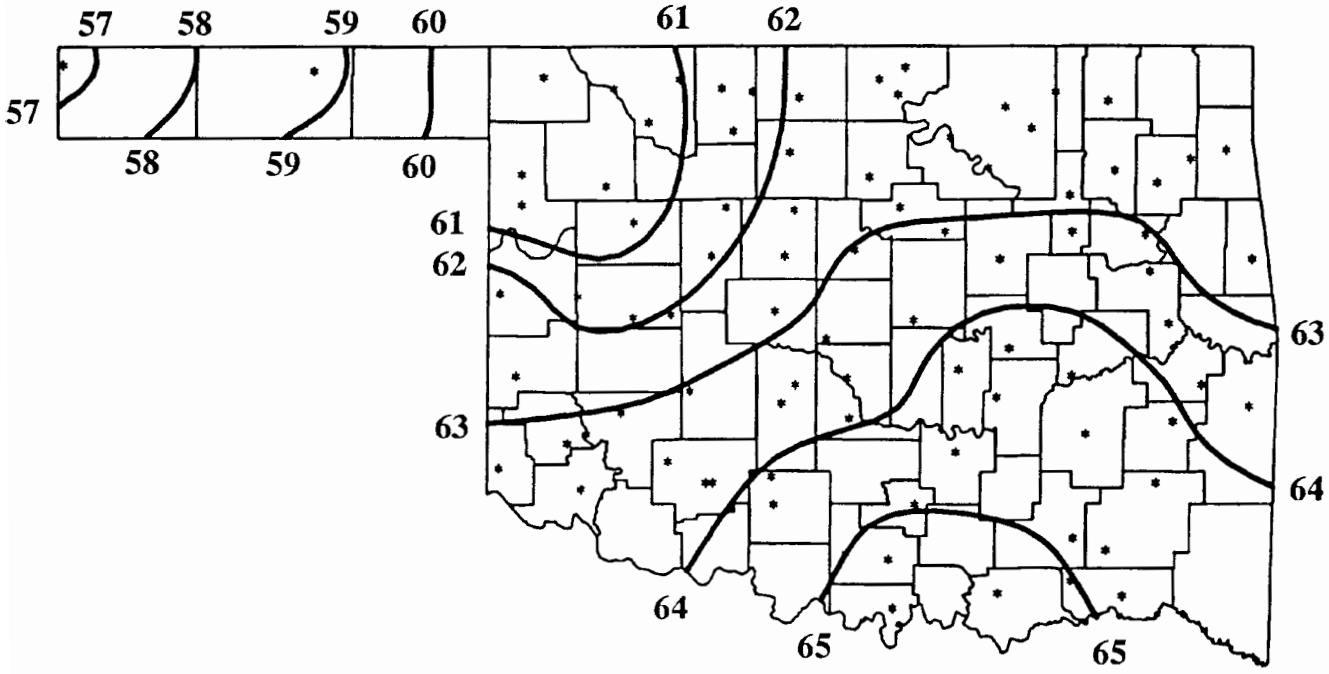
CLIMATE DIV	MEAN TEMP	NUM STA	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEGREE DAYS	DEV FROM NORM	COOL DEGREE DAYS	DEV FROM NORM	TOT PPT	NUM STA	DEV FROM NORM	MAX 24-HR	DAY
1	58.9	10	.3	99.0	1	27.0	26	223.0	-3.1	33.7	5.9	1.77	13	.45	1.57	5
2	61.6	14	.5	96.0	1	22.0	27	168.2	4.4	63.3	21.1	3.38	24	1.05	2.64	17
3	62.6	13	1.5	90.0	1	24.0	26	143.4	-21.7	69.2	23.2	3.82	26	.41	3.45	8
4	61.8	8	.4	92.0	2	28.0	26	164.1	9.5	66.4	24.6	3.09	17	.89	3.60	16
5	63.6	15	.8	91.0	1	29.0	26	126.8	-1.0	82.2	25.0	3.11	32	-.14	3.11	8
6	64.1	8	1.3	95.0	1	25.0	26	119.5	-13.9	90.3	27.3	3.04	25	-1.09	3.00	8
7	63.4	10	.2	98.0	3	29.0	27	138.6	19.4	89.8	24.5	3.18	19	.51	3.50	17
8	65.1	11	1.1	93.0	4	31.0	26	110.7	5.4	113.7	38.3	4.18	28	.27	2.80	7
9	64.1	11	.8	95.0	1	26.0	27	126.6	6.5	98.3	31.9	5.03	19	.61	4.30	8



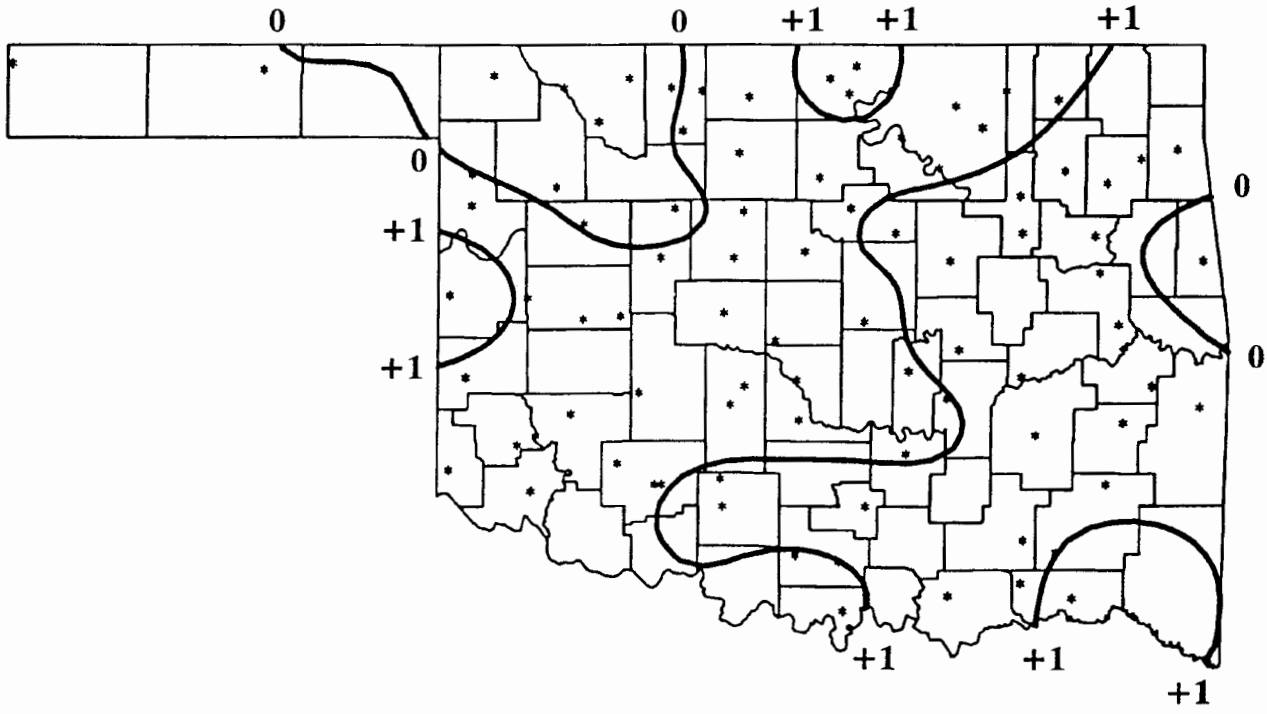
OCTOBER 1994 TOTAL PRECIPITATION
(Inches)



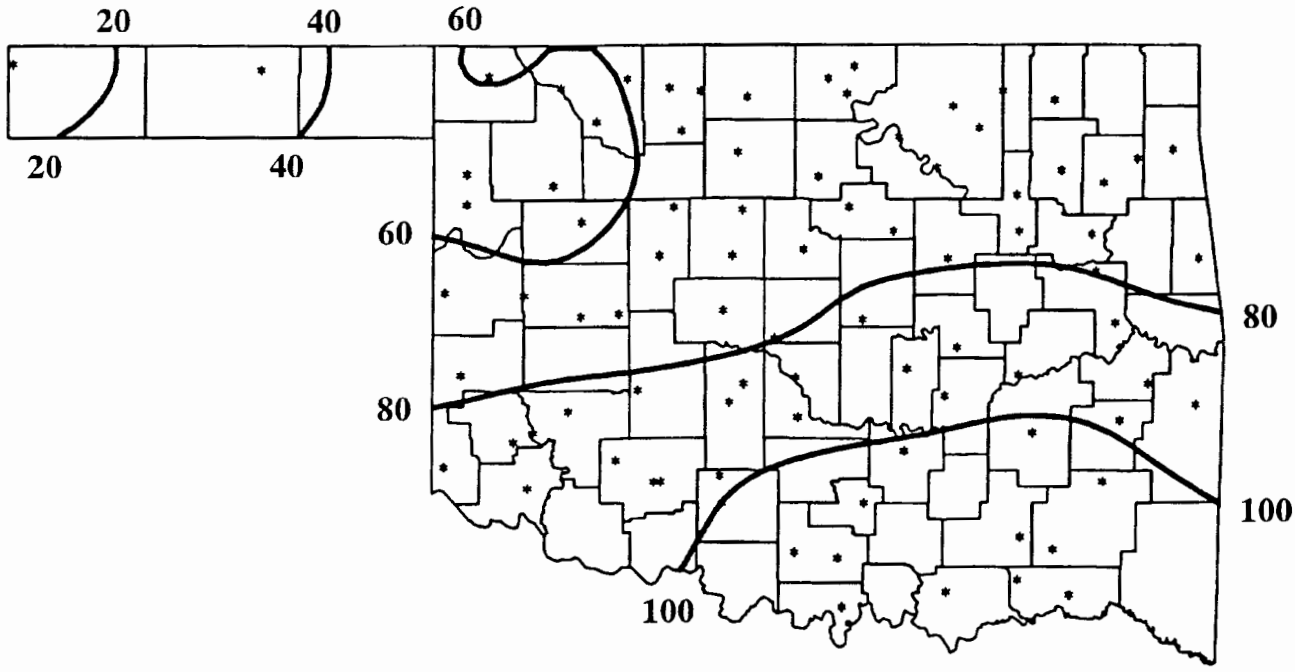
OCTOBER 1994 DEVIATION FROM NORMAL PRECIPITATION
(Inches)



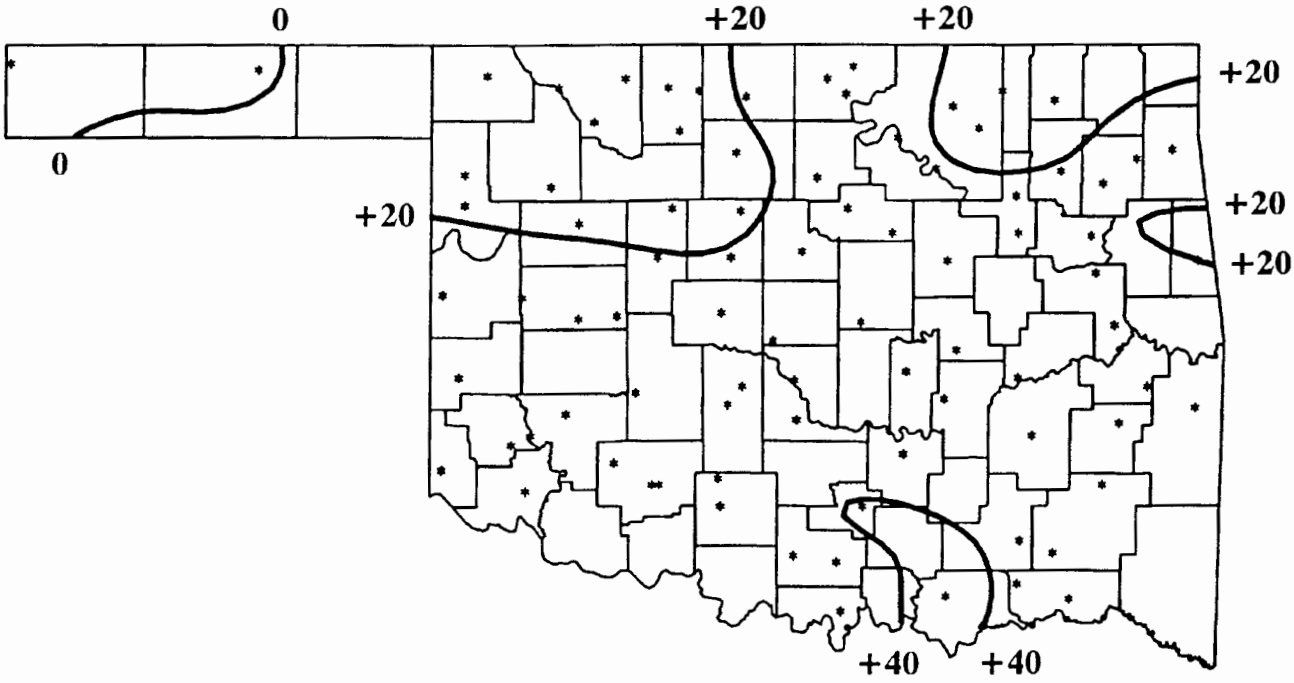
OCTOBER 1994 AVERAGE MONTHLY TEMPERATURES
(Degrees F)



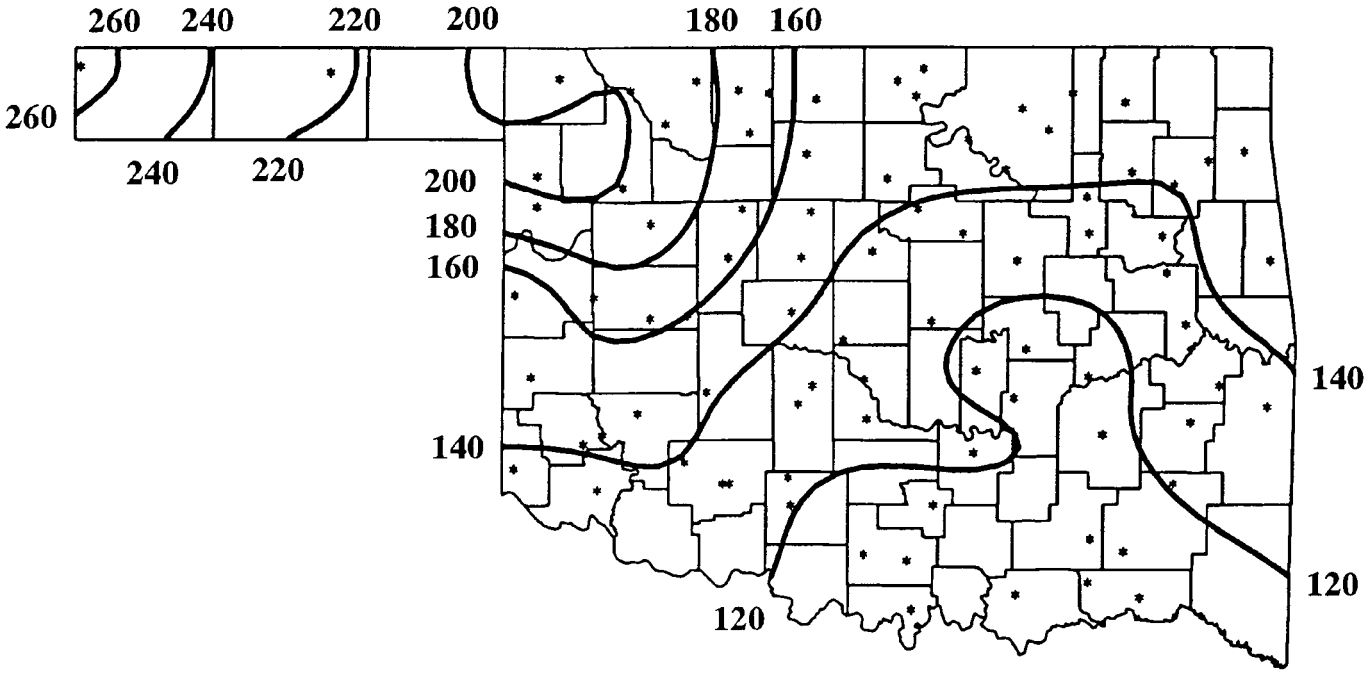
OCTOBER 1994 DEVIATION FROM NORMAL TEMPERATURES
(Degrees F)



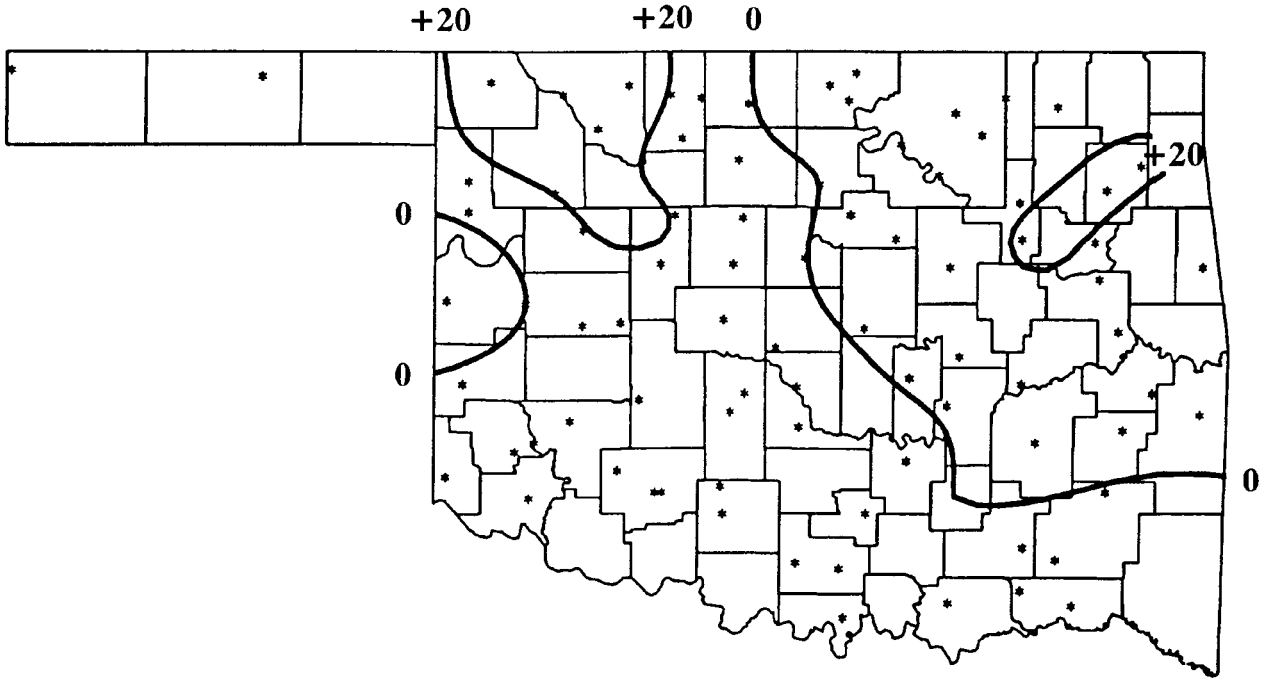
OCTOBER 1994 COOLING DEGREE DAYS



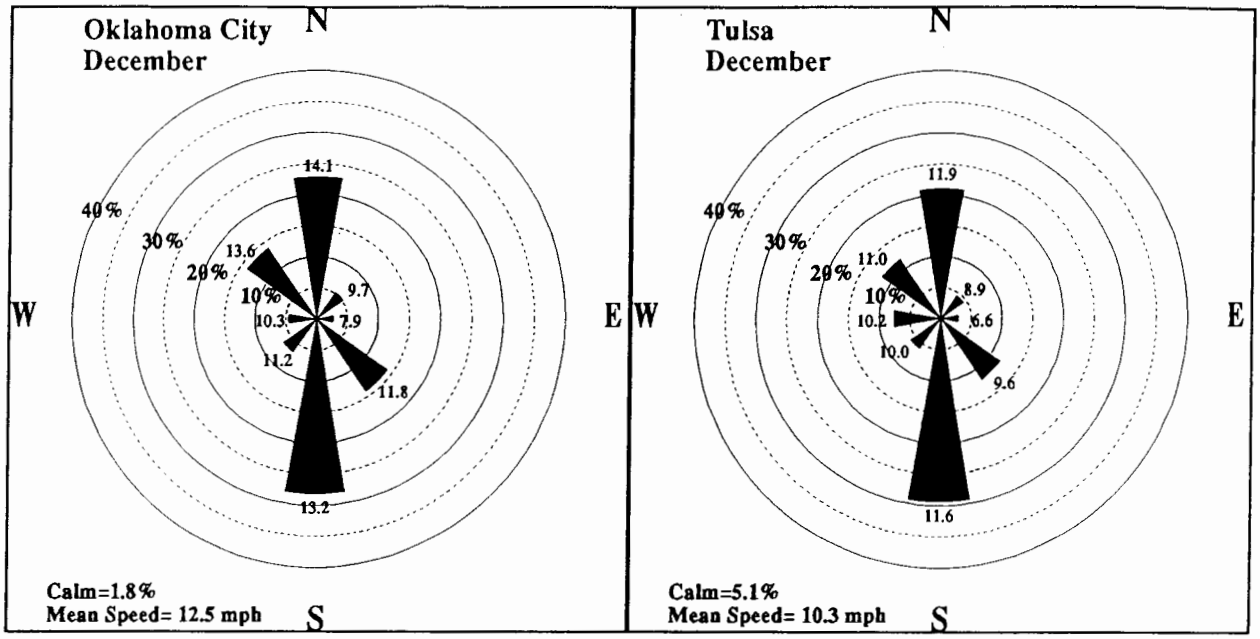
OCTOBER 1994 DEVIATION FROM NORMAL COOLING DEGREE DAYS



OCTOBER 1994 HEATING DEGREE DAYS



OCTOBER 1994 DEVIATION FROM NORMAL HEATING DEGREE DAYS



December 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.

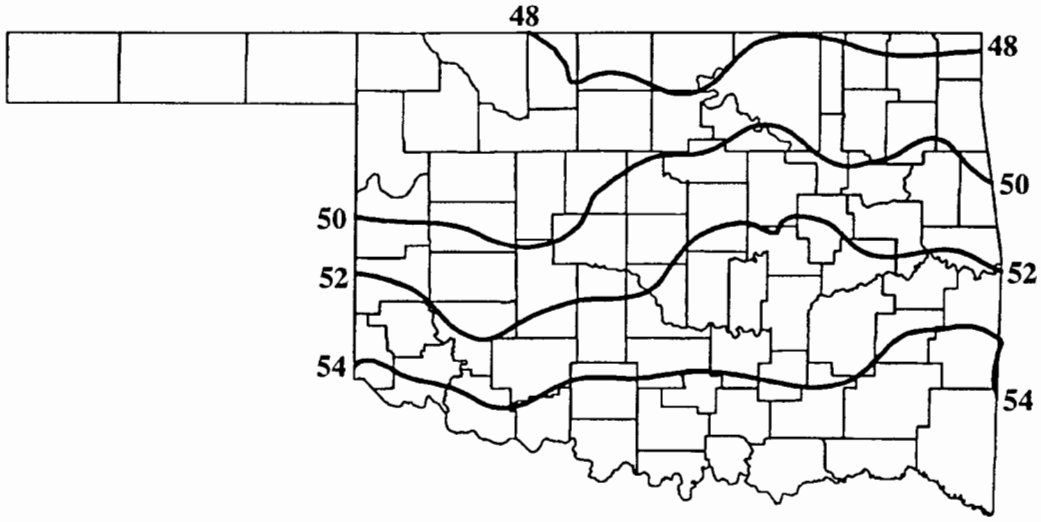
DECEMBER 1994 SUNRISE AND SUNSET

OKLAHOMA CITY

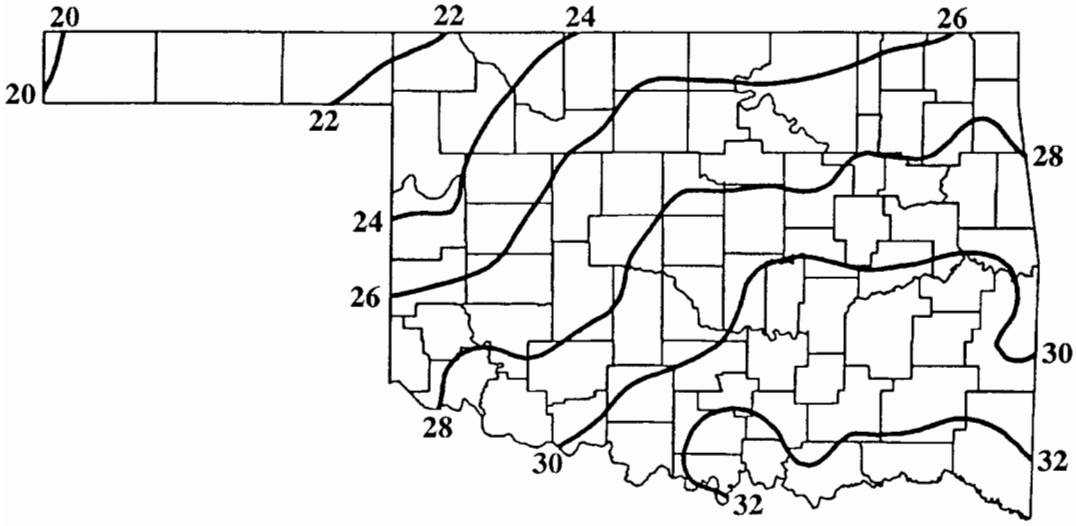
DATE	SUNRISE	SUNSET	DAYLIGHT
9412 1	7:19AM	5:21PM CST	10 hrs 1 mins
9412 2	7:20AM	5:21PM CST	10 hrs 0 mins
9412 3	7:21AM	5:21PM CST	10 hrs 0 mins
9412 4	7:22AM	5:20PM CST	9 hrs 59 mins
9412 5	7:23AM	5:20PM CST	9 hrs 58 mins
9412 6	7:23AM	5:20PM CST	9 hrs 57 mins
9412 7	7:24AM	5:20PM CST	9 hrs 56 mins
9412 8	7:25AM	5:20PM CST	9 hrs 55 mins
9412 9	7:26AM	5:21PM CST	9 hrs 55 mins
941210	7:27AM	5:21PM CST	9 hrs 54 mins
941211	7:27AM	5:21PM CST	9 hrs 54 mins
941212	7:28AM	5:21PM CST	9 hrs 53 mins
941213	7:29AM	5:21PM CST	9 hrs 53 mins
941214	7:29AM	5:21PM CST	9 hrs 52 mins
941215	7:30AM	5:22PM CST	9 hrs 52 mins
941216	7:31AM	5:22PM CST	9 hrs 51 mins
941217	7:31AM	5:22PM CST	9 hrs 51 mins
941218	7:32AM	5:23PM CST	9 hrs 51 mins
941219	7:32AM	5:23PM CST	9 hrs 51 mins
941220	7:33AM	5:23PM CST	9 hrs 50 mins
941221	7:33AM	5:24PM CST	9 hrs 50 mins
941222	7:34AM	5:24PM CST	9 hrs 50 mins
941223	7:34AM	5:25PM CST	9 hrs 50 mins
941224	7:35AM	5:25PM CST	9 hrs 50 mins
941225	7:35AM	5:26PM CST	9 hrs 50 mins
941226	7:36AM	5:26PM CST	9 hrs 51 mins
941227	7:36AM	5:27PM CST	9 hrs 51 mins
941228	7:36AM	5:27PM CST	9 hrs 51 mins
941229	7:37AM	5:28PM CST	9 hrs 51 mins
941230	7:37AM	5:29PM CST	9 hrs 52 mins
941231	7:37AM	5:29PM CST	9 hrs 52 mins

TULSA

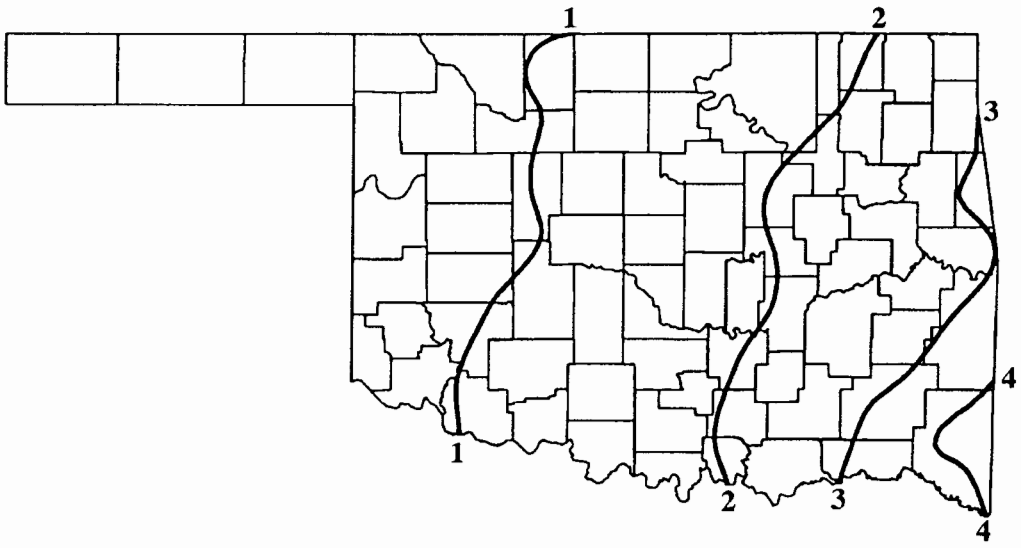
DATE	SUNRISE	SUNSET	DAYLIGHT
9412 1	7:14AM	5:12PM CST	9 hrs 58 mins
9412 2	7:15AM	5:12PM CST	9 hrs 57 mins
9412 3	7:16AM	5:12PM CST	9 hrs 56 mins
9412 4	7:17AM	5:12PM CST	9 hrs 55 mins
9412 5	7:18AM	5:12PM CST	9 hrs 54 mins
9412 6	7:19AM	5:12PM CST	9 hrs 53 mins
9412 7	7:19AM	5:12PM CST	9 hrs 52 mins
9412 8	7:20AM	5:12PM CST	9 hrs 52 mins
9412 9	7:21AM	5:12PM CST	9 hrs 51 mins
941210	7:22AM	5:12PM CST	9 hrs 50 mins
941211	7:22AM	5:12PM CST	9 hrs 50 mins
941212	7:23AM	5:12PM CST	9 hrs 49 mins
941213	7:24AM	5:12PM CST	9 hrs 48 mins
941214	7:25AM	5:13PM CST	9 hrs 48 mins
941215	7:25AM	5:13PM CST	9 hrs 48 mins
941216	7:26AM	5:13PM CST	9 hrs 47 mins
941217	7:26AM	5:13PM CST	9 hrs 47 mins
941218	7:27AM	5:14PM CST	9 hrs 47 mins
941219	7:28AM	5:14PM CST	9 hrs 46 mins
941220	7:28AM	5:15PM CST	9 hrs 46 mins
941221	7:29AM	5:15PM CST	9 hrs 46 mins
941222	7:29AM	5:15PM CST	9 hrs 46 mins
941223	7:30AM	5:16PM CST	9 hrs 46 mins
941224	7:30AM	5:16PM CST	9 hrs 46 mins
941225	7:31AM	5:17PM CST	9 hrs 46 mins
941226	7:31AM	5:17PM CST	9 hrs 46 mins
941227	7:31AM	5:18PM CST	9 hrs 47 mins
941228	7:32AM	5:19PM CST	9 hrs 47 mins
941229	7:32AM	5:19PM CST	9 hrs 47 mins
941230	7:32AM	5:20PM CST	9 hrs 48 mins
941231	7:32AM	5:20PM CST	9 hrs 48 mins



December Normal Daily Maximum Temperatures (°F)



December Normal Daily Minimum Temperatures (°F)



December Normal Monthly Precipitation (inches)

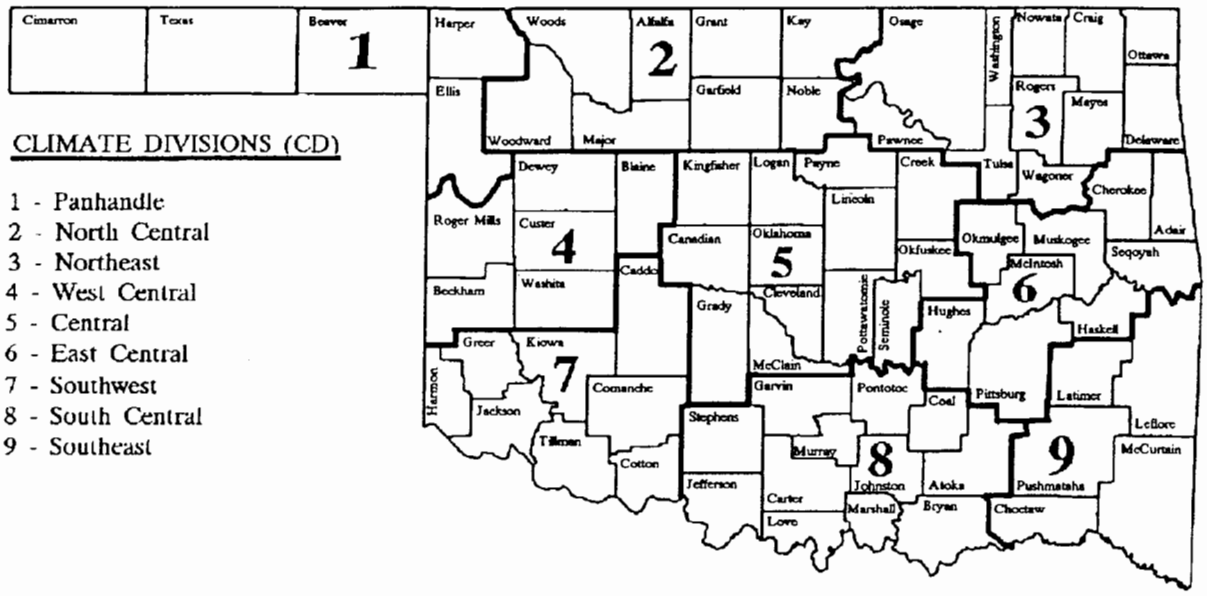
90-DAY NATIONAL WEATHER SERVICE OUTLOOK

(November 1994-January 1995)

Precipitation - Near Normal North
Greater than Normal Elsewhere

Temperature - Near Normal Panhandle
Above 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 that 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

December 1994

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
55.1 max		55.9 max		56.3 max		55.5 max		56.3 max		52.2 max		52.3 max	
33.4 min		33.4 min		32.7 min		33.7 min		33.9 min		32.7 min		30.4 min	
.02 ppt		.07 ppt		.02 ppt		.03 ppt		.04 ppt		.02 ppt		.05 ppt	
21 hdd		20 hdd		21 hdd		20 hdd		20 hdd		23 hdd		24 hdd	
0 cdd		0 cdd		0 cdd		0 cdd		0 cdd		0 cdd		0 cdd	
Highest Max 76-1982		Highest Max 77-1975		Highest Max 77-1916		Highest Max 75-1954		Highest Max 77-1975		Highest Max 77-1939		Highest Max 80-1966	
Lowest Max 20-1985		Lowest Max 20-1919		Lowest Max 15-1897		Lowest Max 25-1972		Lowest Max 31-1992		Lowest Max 19-1972		Lowest Max 19-1909	
Lowest Min 12-1985		Lowest Min 10-1985		Lowest Min 6-1897		Lowest Min 6-1897		Lowest Min 9-1950		Lowest Min 4-1950		Lowest Min 5-1950	
Highest Min 57-1933		Highest Min 56-1951		Highest Min 54-1913		Highest Min 53-1913		Highest Min 59-1980		Highest Min 63-1980		Highest Min 54-1894	
Greatest ppt .60-1913		Greatest ppt 1.59-1953		Greatest ppt 1.39-1947		Greatest ppt 2.59-1930		Greatest ppt 1.00-1935		Greatest ppt 2.78-1892		Greatest ppt 1.23-1980	

Normal 8	Actual	Normal 9	Actual	Normal 10	Actual	Normal 11	Actual	Normal 12	Actual	Normal 13	Actual	Normal 14	Actual
49.7 max		48.9 max		50.3 max		49.2 max		48.8 max		48.0 max		49.1 max	
29.9 min		28.6 min		29.7 min		28.6 min		27.3 min		27.8 min		28.5 min	
.07 ppt		.01 ppt		.08 ppt		.03 ppt		.01 ppt		.05 ppt		.07 ppt	
25 hdd		26 hdd		25 hdd		26 hdd		27 hdd		27 hdd		26 hdd	
0 cdd		0 cdd		0 cdd		0 cdd		0 cdd		0 cdd		0 cdd	
Highest Max 71-1970		Highest Max 73-1915		Highest Max 74-1896		Highest Max 75-1939		Highest Max 73-1973		Highest Max 79-1921		Highest Max 74-1933	
Lowest Max 17-1917		Lowest Max 15-1919		Lowest Max 22-1917		Lowest Max 21-1961		Lowest Max 17-1932		Lowest Max 17-1958		Lowest Max 10-1901	
Lowest Min 1-1917		Lowest Min 3-1919		Lowest Min 3-1919		Lowest Min 5-1917		Lowest Min 6-1932		Lowest Min 4-1917		Lowest Min -2-1901	
Highest Min 61-1946		Highest Min 56-1946		Highest Min 58-1965		Highest Min 52-1946		Highest Min 45-1939		Highest Min 62-1929		Highest Min 64-1948	
Greatest ppt 1.00-1956		Greatest ppt 1.93-1911		Greatest ppt 1.06-1960		Greatest ppt 1.17-1923		Greatest ppt 1.33-1892		Greatest ppt 1.80-1984		Greatest ppt 1.37-1902	

Normal 15	Actual	Normal 16	Actual	Normal 17	Actual	Normal 18	Actual	Normal 19	Actual	Normal 20	Actual	Normal 21	Actual
47.4 max		50.1 max		50.4 max		49.5 max		49.9 max		49.6 max		47.8 max	
27.1 min		27.4 min		28.4 min		28.6 min		29.1 min		27.6 min		25.5 min	
.06 ppt		.03 ppt		.06 ppt		.03 ppt		.04 ppt		.04 ppt		.03 ppt	
28 hdd		26 hdd		26 hdd		26 hdd		25 hdd		26 hdd		28 hdd	
0 cdd		0 cdd		0 cdd		0 cdd		0 cdd		0 cdd		0 cdd	
Highest Max 75-1948		Highest Max 73-1939		Highest Max 75-1939		Highest Max 69-1982		Highest Max 75-1978		Highest Max 73-1966		Highest Max 68-1966	
Lowest Max 19-1901		Lowest Max 21-1932		Lowest Max 21-1964		Lowest Max 19-1983		Lowest Max 8-1924		Lowest Max 15-1924		Lowest Max 11-1983	
Lowest Min 3-1989		Lowest Min 7-1989		Lowest Min 2-1979		Lowest Min 4-1924		Lowest Min -2-1924		Lowest Min 2-1924		Lowest Min -2-1983	
Highest Min 59-1929		Highest Min 56-1929		Highest Min 45-1939		Highest Min 47-1939		Highest Min 54-1978		Highest Min 51-1890		Highest Min 53-1994	
Greatest ppt 1.53-1984		Greatest ppt .56-1931		Greatest ppt 1.68-1959		Greatest ppt 2.20-1898		Greatest ppt 1.10-1987		Greatest ppt .85-1984		Greatest ppt 1.26-1907	

Normal 22	Actual	Normal 23	Actual	Normal 24	Actual	Normal 25	Actual	Normal 26	Actual	Normal 27	Actual	Normal 28	Actual
49.6 max		49.8 max		49.1 max		47.9 max		49.7 max		49.5 max		48.4 max	
27.6 min		28.6 min		27.1 min		26.7 min		27.8 min		28.4 min		29.7 min	
.03 ppt		.03 ppt		.09 ppt		.03 ppt		.02 ppt		.06 ppt		.06 ppt	
26 hdd		26 hdd		27 hdd		28 hdd		26 hdd		26 hdd		26 hdd	
0 cdd		0 cdd		0 cdd		0 cdd		0 cdd		0 cdd		0 cdd	
Highest Max 75-1896		Highest Max 72-1982		Highest Max 86-1955		Highest Max 73-1922		Highest Max 68-1968		Highest Max 75-1946		Highest Max 73-1947	
Lowest Max 4-1989		Lowest Max 10-1983		Lowest Max 3-1983		Lowest Max 13-1983		Lowest Max 18-1892		Lowest Max 15-1894		Lowest Max 21-1925	
Lowest Min -4-1989		Lowest Min -8-1989		Lowest Min 0-1983		Lowest Min -1-1983		Lowest Min 2-1892		Lowest Min 3-1924		Lowest Min -1-1924	
Highest Min 55-1893		Highest Min 57-1965		Highest Min 54-1893		Highest Min 49-1936		Highest Min 56-1936		Highest Min 56-1946		Highest Min 59-1984	
Greatest ppt 2.01-1932		Greatest ppt 1.80-1932		Greatest ppt 1.47-1914		Greatest ppt 1.05-1987		Greatest ppt 1.15-1940		Greatest ppt 1.06-1927		Greatest ppt 1.85-1979	

Normal 29	Actual	Normal 30	Actual	Normal 31	Actual
48.8 max		45.0 max		45.4 max	
28.0 min		26.3 min		25.7 min	
.04 ppt		.03 ppt		.09 ppt	
27 hdd		29 hdd		29 hdd	
0 cdd		0 cdd		0 cdd	
Highest Max 77-1951		Highest Max 74-1951		Highest Max 80-1951	
Lowest Max 12-1917		Lowest Max 14-1990		Lowest Max 10-1927	
Lowest Min 3-1983		Lowest Min 3-1990		Lowest Min 1-1968	
Highest Min 60-1992		Highest Min 55-1965		Highest Min 55-1965	
Greatest ppt .23-1972		Greatest ppt .40-1899		Greatest ppt 2.55-1984	

DECEMBER AVERAGES

TEMPERATURE	:	39.6°F
PRECIPITATION	:	1.34"
HEATING DEGREE DAYS	:	786
COOLING DEGREE DAYS	:	0

TULSA CLIMATE CALENDAR

December 1994

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

Normal 1		Actual	Normal 2		Actual	Normal 3		Actual	Normal 4		Actual	Normal 5		Actual	Normal 6		Actual	Normal 7		Actual
55.0	max		56.0	max		56.0	max		55.0	max		56.0	max		51.0	max		52.0	max	
34.0	min		34.0	min		33.0	min		34.0	min		34.0	min		31.0	min		31.0	min	
.02	ppt		.03	ppt		.04	ppt		.05	ppt		.07	ppt		.06	ppt		.04	ppt	
20	hdd		20	hdd		20	hdd		20	hdd		20	hdd		24	hdd		24	hdd	
0	cdd		0	cdd		0	cdd		0	cdd		0	cdd		0	cdd		0	cdd	
Highest Max	77-1950		Highest Max	76-1956		Highest Max	77-1916		Highest Max	77-1906		Highest Max	77-1989		Highest Max	77-1966		Highest Max	80-1966	
Lowest Max	26-1985		Lowest Max	24-1985		Lowest Max	33-1964		Lowest Max	27-1972		Lowest Max	32-1992		Lowest Max	18-1972		Lowest Max	26-1950	
Lowest Min	14-1985		Lowest Min	11-1985		Lowest Min	15-1929		Lowest Min	20-1945		Lowest Min	10-1950		Lowest Min	3-1950		Lowest Min	4-1950	
Highest Min	59-1982		Highest Min	58-1951		Highest Min	49-1962		Highest Min	55-1960		Highest Min	61-1980		Highest Min	64-1980		Highest Min	53-1991	
Greatest ppt	.54-1993		Greatest ppt	.73-1953		Greatest ppt	.84-1973		Greatest ppt	.82-1960		Greatest ppt	1.11-1975		Greatest ppt	1.15-1974		Greatest ppt	77-1980	

Normal 8		Actual	Normal 9		Actual	Normal 10		Actual	Normal 11		Actual	Normal 12		Actual	Normal 13		Actual	Normal 14		Actual
50.0	max		48.0	max		50.0	max		50.0	max		48.0	max		47.0	max		49.0	max	
30.0	min		29.0	min		29.0	min		30.0	min		28.0	min		27.0	min		28.0	min	
.08	ppt		.04	ppt		.20	ppt		.04	ppt		.02	ppt		.07	ppt		.15	ppt	
25	hdd		26	hdd		25	hdd		25	hdd		27	hdd		28	hdd		26	hdd	
0	cdd		0	cdd		0	cdd		0	cdd		0	cdd		0	cdd		0	cdd	
Highest Max	73-1991		Highest Max	75-1993		Highest Max	73-1929		Highest Max	76-1929		Highest Max	73-1924		Highest Max	80-1948		Highest Max	74-1933	
Lowest Max	24-1978		Lowest Max	23-1977		Lowest Max	23-1972		Lowest Max	29-1976		Lowest Max	20-1962		Lowest Max	22-1958		Lowest Max	25-1963	
Lowest Min	-3-1917		Lowest Min	0-1917		Lowest Min	3-1919		Lowest Min	4-1917		Lowest Min	3-1962		Lowest Min	4-1917		Lowest Min	4-1958	
Highest Min	46-1987		Highest Min	48-1993		Highest Min	54-1965		Highest Min	50-1991		Highest Min	44-1991		Highest Min	44-1975		Highest Min	64-1948	
Greatest ppt	1.01-1956		Greatest ppt	1.12-1971		Greatest ppt	1.73-1960		Greatest ppt	.49-1954		Greatest ppt	.58-1991		Greatest ppt	2.33-1984		Greatest ppt	3.02-1971	

Normal 15		Actual	Normal 16		Actual	Normal 17		Actual	Normal 18		Actual	Normal 19		Actual	Normal 20		Actual	Normal 21		Actual
48.0	max		50.0	max		50.0	max		49.0	max		50.0	max		49.0	max		48.0	max	
28.0	min		28.0	min		29.0	min		29.0	min		29.0	min		28.0	min		27.0	min	
.04	ppt		.05	ppt		.03	ppt		.04	ppt		.11	ppt		.05	ppt		.03	ppt	
27	hdd		26	hdd		25	hdd		26	hdd		25	hdd		27	hdd		27	hdd	
0	cdd		0	cdd		0	cdd		0	cdd		0	cdd		0	cdd		0	cdd	
Highest Max	77-1948		Highest Max	77-1908		Highest Max	78-1908		Highest Max	72-1939		Highest Max	70-1967		Highest Max	75-1966		Highest Max	70-1979	
Lowest Max	19-1951		Lowest Max	21-1989		Lowest Max	23-1954		Lowest Max	23-1981		Lowest Max	9-1983		Lowest Max	19-1983		Lowest Max	17-1963	
Lowest Min	-1-1989		Lowest Min	3-1989		Lowest Min	2-1932		Lowest Min	4-1964		Lowest Min	-1-1924		Lowest Min	3-1924		Lowest Min	0-1989	
Highest Min	47-1957		Highest Min	48-1977		Highest Min	46-1957		Highest Min	44-1978		Highest Min	55-1978		Highest Min	49-1967		Highest Min	44-1979	
Greatest ppt	.64-1984		Greatest ppt	.85-1961		Greatest ppt	1.05-1990		Greatest ppt	.55-1973		Greatest ppt	1.90-1987		Greatest ppt	1.44-1991		Greatest ppt	47-1949	

Normal 22		Actual	Normal 23		Actual	Normal 24		Actual	Normal 25		Actual	Normal 26		Actual	Normal 27		Actual	Normal 28		Actual
50.0	max		50.0	max		48.0	max		47.0	max		48.0	max		48.0	max		47.0	max	
29.0	min		30.0	min		27.0	min		27.0	min		28.0	min		29.0	min		29.0	min	
.05	ppt		.05	ppt		.14	ppt		.05	ppt		.04	ppt		.12	ppt		.02	ppt	
25	hdd		25	hdd		27	hdd		28	hdd		27	hdd		26	hdd		27	hdd	
0	cdd		0	cdd		0	cdd		0	cdd		0	cdd		0	cdd		0	cdd	
Highest Max	71-1982		Highest Max	73-1982		Highest Max	80-1955		Highest Max	73-1922		Highest Max	69-1971		Highest Max	77-1946		Highest Max	74-1928	
Lowest Max	7-1983		Lowest Max	9-1983		Lowest Max	5-1983		Lowest Max	12-1983		Lowest Max	23-1983		Lowest Max	29-1983		Lowest Max	25-1983	
Lowest Min	-6-1989		Lowest Min	-8-1989		Lowest Min	-2-1983		Lowest Min	-2-1983		Lowest Min	9-1914		Lowest Min	8-1925		Lowest Min	0-1924	
Highest Min	55-1979		Highest Min	60-1982		Highest Min	54-1982		Highest Min	51-1971		Highest Min	54-1971		Highest Min	47-1984		Highest Min	62-1984	
Greatest ppt	1.51-1966		Greatest ppt	.71-1973		Greatest ppt	2.80-1965		Greatest ppt	1.29-1987		Greatest ppt	.97-1987		Greatest ppt	1.25-1954		Greatest ppt	.30-1954	

Normal 29		Actual	Normal 30		Actual	Normal 31		Actual
49.0	max		46.0	max		46.0	max	
28.0	min		27.0	min		26.0	min	
.07	ppt		.05	ppt		.13	ppt	
26	hdd		28	hdd		29	hdd	
0	cdd		0	cdd		0	cdd	
Highest Max	71-1984		Highest Max	77-1951		Highest Max	78-1951	
Lowest Max	22-1983		Lowest Max	16-1990		Lowest Max	19-1976	
Lowest Min	3-1983		Lowest Min	2-1983		Lowest Min	0-1969	
Highest Min	52-1992		Highest Min	58-1965		Highest Min	54-1965	
Greatest ppt	.88-1990		Greatest ppt	.35-1974		Greatest ppt	3.27-1984	

DECEMBER AVERAGES

TEMPERATURE	:	39.6°F
PRECIPITATION	:	1.98"
HEATING DEGREE DAYS	:	781
COOLING DEGREE DAYS	:	0