

# OKLAHOMA MONTHLY SUMMARY NOVEMBER 1993

## TABLE OF CONTENTS

November 1993 Oklahoma Summary.....	2
Table of November 1992/1993 Comparisons.....	5
November 1993 Data Summary Tables.....	6
November 1993 State Map Summary.....	11
January Climatological Normals.....	14
90-Day National Weather Service Outlook.....	16
Explanation of Tables and Maps.....	17
January 1994 Oklahoma City Climate Calendar.....	19
January 1994 Tulsa Climate Calendar.....	20

### MONTHLY SUMMARY FOR NOVEMBER 1993

Monthly average temperatures during November averaged five degrees below normal across Oklahoma. The statewide average temperature for the month was 44.8 degrees Fahrenheit, making this the 6th coolest November in 101 years of weather records. The month brought the autumn 1993 average temperature for the state to 57.8 degrees, 3.8 degrees below the seasonal normal and the state's second lowest autumn average temperature since 1892. The average temperature for the first eleven months of the year is 60.6 degrees, 1.2 degrees below normal, ranking 1993 as the 6th coolest year on record thus far.

Precipitation for the month was below normal over most of the state, although some locally heavy rains in the extreme southeast at mid-month raised that region's average monthly total above the normal amount. The statewide average precipitation of 1.86 inches was .56 inch below normal. Autumn precipitation totaled 9.02 inches (.41 inch below normal). For the year thus far, statewide averaged total precipitation is 36.78 inches, 4.20 above normal.

The first third of the month was cool and, for the most part, dry. Some light snow was reported in the western Panhandle at Kenton on the 1st. A weak cold front moved through the state on the second, triggering some showers in the southeast. Dry air and strong winds fanned some grass fires in central Oklahoma on the 4th. A second cold front passed through the state on the 4th and 5th. Temperatures across the state remained below 40 degrees across the entire state on the 5th and overnight low temperatures reported on the morning of the 6th were all below freezing.

A weak cold front, supported by a strong upper-level disturbance, brought widespread precipitation and some heavy thunderstorms around mid-month. Kenton reported 3 inches of snow on the evening of the 12th. Thunderstorms developed by late morning of the 13th in southwestern Oklahoma. Large hail was reported in Caddo, Comanche and Tillman Counties, including a report of baseball sized hail near Medicine Park. Later in the afternoon, thunderstorms in McCurtain County produced tornadoes which caused slight damage near Valiant and greater damage near Watson and Plunketville and eastward to Mena, AR where substantial damage and several injuries were reported. Oktaha (Muskogee) reported 3.4 inches of precipitation and 3.27 inches were reported at Kansas (Delaware County). Several other locations reported daily precipitation amounts in excess of two inches.

Scattered areas reported traces of sleet or snow from the 14th through the 17th as colder air filtered southward. The main body of cold air was in place by the morning of the 20th, when overnight low temperatures were below 30 degrees statewide. A moderating trend followed with daytime temperatures climbing into the 70s on the 22nd and 23rd.

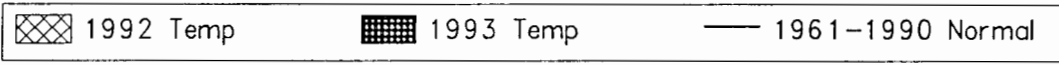
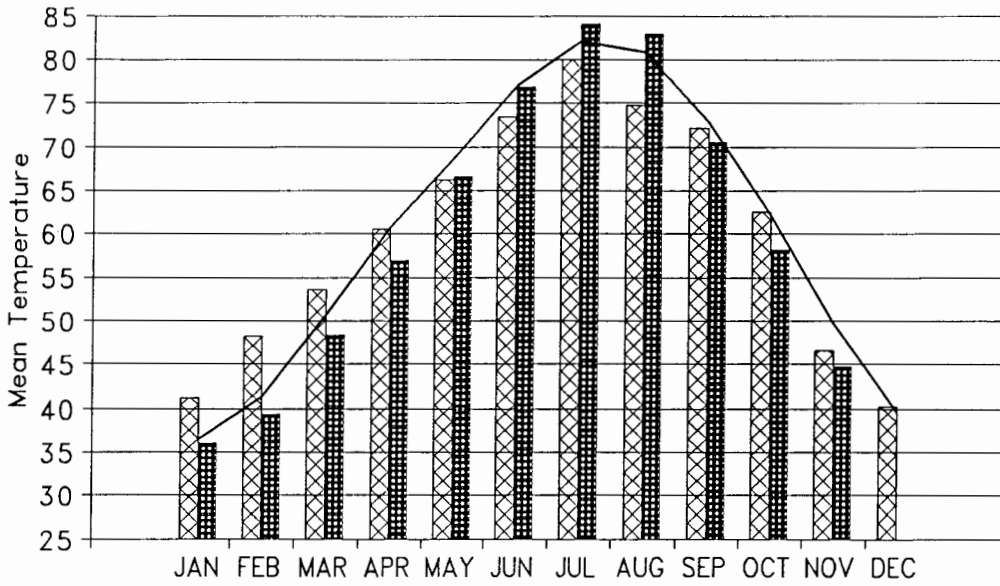
A mass of bitterly cold air moved into northern Oklahoma on the 23rd and spread across the state by evening of the 24th. The low temperature reported from Guymon on Thanksgiving Day was only 2 degrees. Temperatures of 5 degrees or lower were also reported at Kenton, Freedom and Hooker. The highest reported low temperature in the state on Thanksgiving Day was 27 degrees at Hugo and McCurtain.

Thanksgiving Day travel was impeded as an upper-level disturbance moved across the state on the 25th, producing widespread sleet and freezing rain across much of southern and eastern parts of the state. Wilburton reported 2 inches of sleet. Five people were killed in holiday traffic accidents attributable to the hazardous driving conditions.

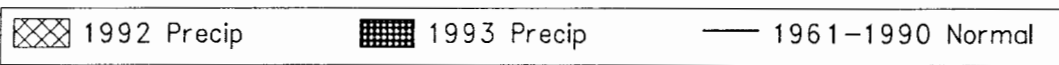
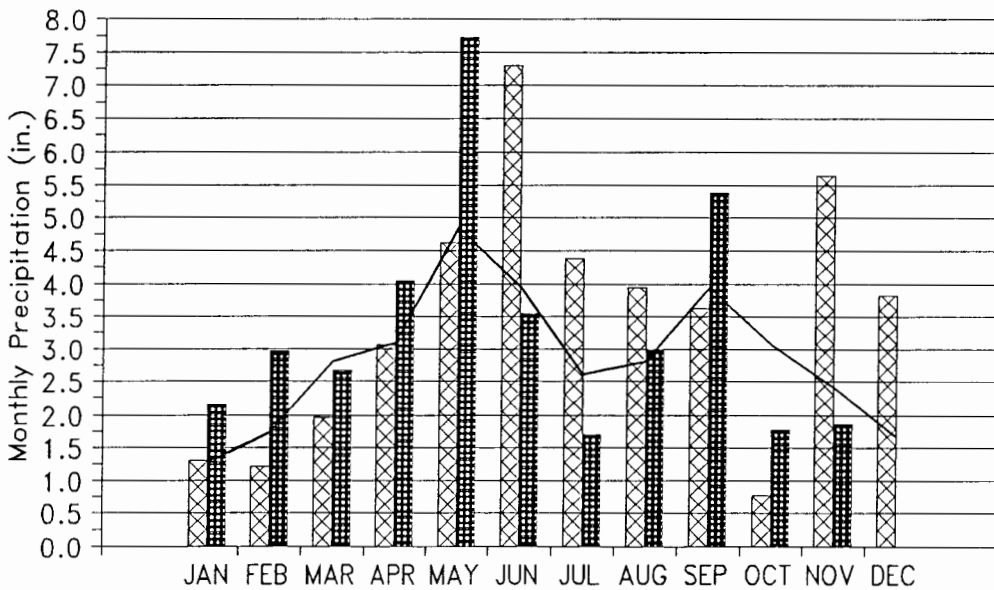
Travelers returning to their homes after the holidays enjoyed moderating temperatures and dry weather. Some light sleet and snow was reported at Tussy (Garvin County) on the afternoon of the 30th, but pleasant weather dominated the state at month's end.

Howard L. Johnson

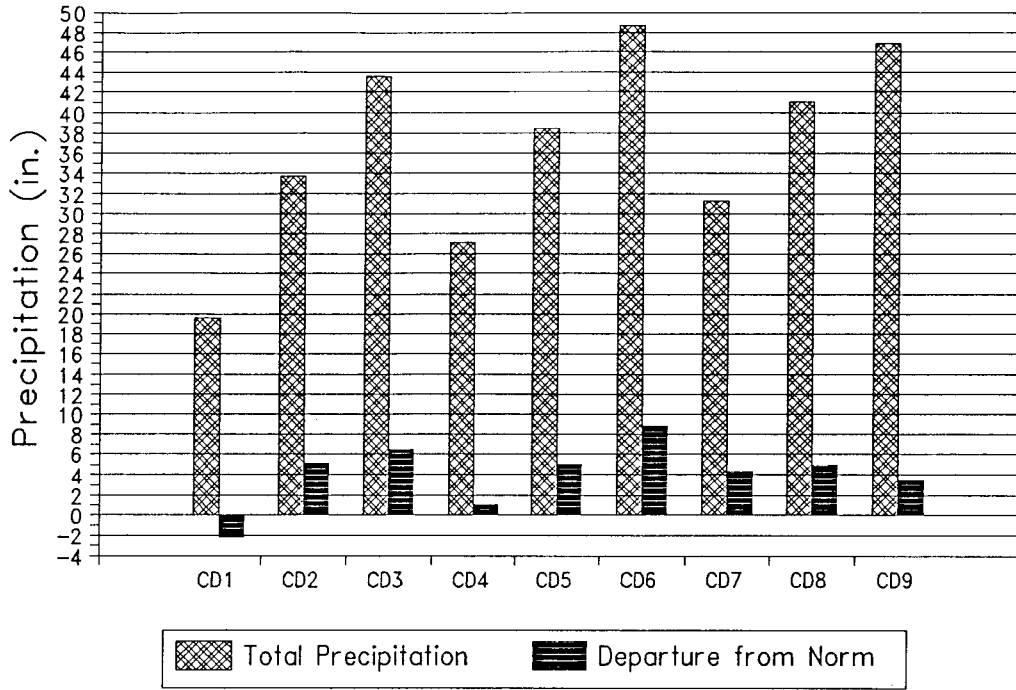
### 1992 and 1993 STATEWIDE TEMPERATURES Monthly Averages



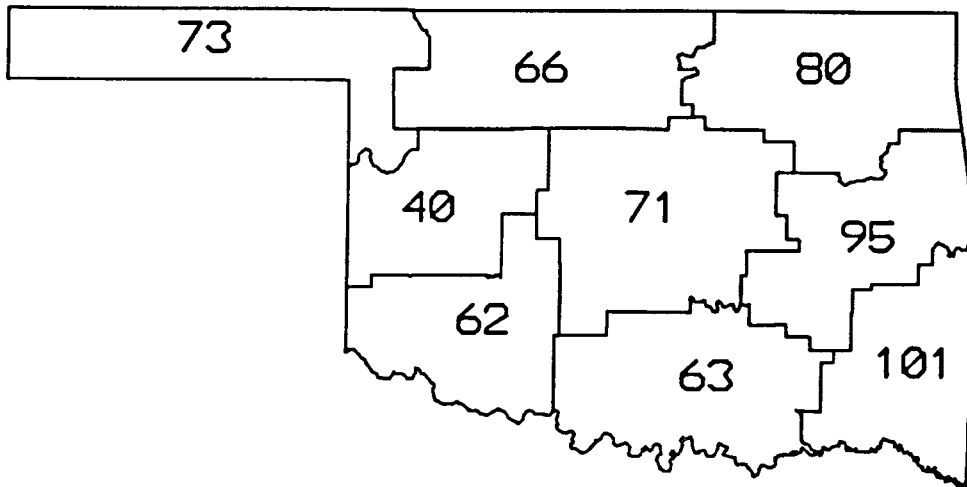
### 1992 and 1993 STATEWIDE PRECIPITATION Monthly Totals



### CD Averaged Precipitation 1993 January through November Totals



### CD PERCENT OF NORMAL PRECIPITATION



NOVEMBER 1993

-5-  
 EXTREME VALUES OF TEMPERATURE AND PRECIPITATION IN EACH CLIMATE DIVISION  
 NOVEMBER, 1993

CD	MAX			MIN			24-HOUR			MONTHLY	
	TEMP	DATE	LOCATION	TEMP	DATE	LOCATION	PRECIP	DATE	LOCATION	PRECIP	LOCATION
1	77	3	BUFFALO	2	25	GUYMON	.70	12	KENTON	1.15	BUFFALO
2	77	12	ENID	3	26	FREEDOM	1.30	14	BILLINGS	2.82	RED ROCK
3	76	5	BIXBY	10	26	BARNSDALL	3.27	14	KANSAS	5.00	KANSAS
	76	4	MANNFORD	10	26	HULAH DAM					
				10	26	MANNFORD					
4	79	5	WEATHERFORD	6	26	HAMMON	.60	14	GEARY	.95	CANTON DAM
5	80	4	NORMAN	11	26	HENNESSEY	2.53	14	CRESCENT	4.43	CRESCENT
6	77	4	HANNA	11	4	OKMULGEE	4.00	14	SCRAPER	5.27	SALLISAW
	77	4	HOLDENVILLE								
	77	4	MCALESTER								
	77	4	MCCURTAIN								
7	79	4	CARNEGIE	6	26	ALTUS DAM	1.43	13	WICHITA MT W	2.60	ANADARKO
	79	4	CHATTANOOGA								
	79	4	FORT SILL								
8	79	5	DURANT	11	26	MARLOW	2.10	14	DURANT	4.06	DURANT
	79	4	MARLOW								
9	79	5	BROKEN BOW DA	13	27	SMITHVILLE	2.97	14	SPIRO	6.42	SPIRO
	79	5	IDABEL								
	79	14	IDABEL								

**TABLE OF 1992/1993 COMPARISONS**

Station	November Temperature (°F)		November Precipitation (in.)	
	1992	1993	1992	1993
Arnett	40.7	39.8	3.42	0.72
Enid	44.3	44.7	6.59	1.26
Mutual	41.9	40.8	4.35	0.23
Tulsa	46.7	45.0	4.99	1.63
Elk City	45.5	45.2	5.35	0.56
Oklahoma City	45.9	44.2	4.46	1.34
McAlester	51.0	47.9	5.55	3.34
Altus Irr Sta	49.2	47.5	5.27	1.02
Durant	50.8	45.8	4.35	4.06
Ada	48.3	45.8	3.55	2.19
Antlers	49.7	45.8	5.04	3.10

**EXTREMES**

Variable	Station	Division	Observation	Date
Minimum temperature (°F)	Guymon	1	2	25
Maximum temperature (°F)	Norman	5	80	4
Maximum 24-hour precipitation	Scraper	6	4.00"	14

**NOVEMBER 1993 SUMMARY FOR NORTHWEST DIVISION (CD1)**

NAME	ID	CD	DEV					HEAT		DEV		COOL		DEV		TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
			MEAN TEMP	NUM OBS	FROM NORM	MAX TEMP	MIN DAY	DEG DAY	FROM NORM	DEG DAY	DEG DAY	FROM NORM	FROM NORM	MAX						
ARNETT	332	1	39.8	29	-5.9	70.	4	8.	25	732.0	153.0	.0	.0	.720	30	-.71	.47	14		
BEAVER	593	1	39.0	30	-5.2	73.	23	4.	27	780.0	156.0	.0	.0	.841	30	-.18	.42	16		
BOISE CITY 2 E	908	1	41.3	30	-3.5	74.	3	3.	25	712.5	103.5	.0	.0	.473	30	-.25	.28	13		
BUFFALO	1243	1	43.8	30	-3.3	77.	3	10.	25	636.0	99.0	.5	.5	1.150	30	-.47	.45	16		
FARGO	3070	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.881	30	-.42	.56	14		
GAGE FAA APT	3407	1	42.8	29	-4.0	74.	3	6.	26	642.5	96.5	.0	.0	.804	30	-.27	.49	14		
GATE	3489	1	42.0	30	-3.5	75.	4	7.	25	690.0	105.0	.0	.0	.581	30	-.52	.24	16		
GOODWELL RES ST	3628	1	38.5	23	*****	73.	23	4.	25	609.5	*****	.0	*****	.750	27	*****	.44	15		
GUYMON	3835	1	40.4	23	*****	72.	3	2.	25	565.0	*****	.0	*****	.460	24	*****	.25	12		
HOOKER	4298	1	39.6	30	-5.0	71.	23	4.	25	762.5	150.5	.0	.0	.740	30	-.04	.59	14		
KENTON	4766	1	41.0	28	*****	73.	3	4.	24	671.5	*****	.0	*****	.801	28	*****	.70	12		
LAVERNE	5045	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.701	30	-.47	.30	14		
OPTIMA LAKE	6740	1	38.5	23	*****	73.	23	4.	25	609.5	*****	.0	*****	.750	27	*****	.44	15		
REGNIER	7534	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.703	31	.14	.50	14		
TURPIN 4 SSE	9017	1	38.9	30	*****	71.	23	5.	26	784.0	*****	.0	*****	.790	30	*****	.46	14		

**NOVEMBER 1993 SUMMARY FOR NORTH CENTRAL DIVISION (CD2)**

NAME	ID	CD	DEV					HEAT		DEV		COOL		DEV		TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
			MEAN TEMP	NUM OBS	FROM NORM	MAX TEMP	MIN DAY	DEG DAY	FROM NORM	DEG DAY	DEG DAY	FROM NORM	FROM NORM	MAX						
ALVA	193	2	43.8	28	*****	75.	12	11.	26	595.0	*****	1.0	*****	.400	30	*****	.23	16		
VANCE AFB	302	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.573	28	*****	.42	12		
BILLINGS	755	2	41.1	30	-6.3	72.	13	11.	26	716.5	188.5	.0	.0	2.061	30	-.21	1.30	14		
BLACKWELL 2E	818	2	43.2	30	-4.4	71.	4	12.	26	654.0	132.0	.0	.0	1.574	30	-.71	.64	14		
BRAMAN	1075	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.630	30	*****	.57	13		
CEDARDALE	1620	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.340	30	*****	.16	16		
CHEROKEE	1724	2	43.4	30	-4.5	75.	12	11.	26	650.0	137.0	1.0	1.0	.730	30	-.79	.26	12		
ENID	2912	2	44.7	30	-3.9	77.	12	13.	26	609.5	117.5	1.5	1.5	1.260	30	-.95	.53	14		
FT SUPPLY DAM	3304	2	40.2	29	-5.3	74.	4	8.	27	718.5	133.5	.0	.0	.921	30	-.34	.55	14		
FREEDOM	3358	2	38.7	30	-8.3	76.	4	3.	26	789.5	249.5	.0	.0	.970	30	-.38	.69	14		
GREAT SALT PLNS	3740	2	42.1	30	-4.7	76.	13	12.	26	687.0	141.0	.0	.0	.601	30	-1.23	.26	14		
HARDY	3909	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.632	30	*****	1.10	13		
HELENA 1 SSE	4019	2	40.6	30	-5.4	74.	13	8.	26	733.0	163.0	.0	.0	.662	30	-1.15	.32	14		
JEFFERSON	4573	2	44.1	30	-3.9	74.	12	6.	26	627.0	117.0	1.0	1.0	.581	30	-1.60	.27	13		
LAMONT	5013	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.340	30	*****	.74	14		
MEDFORD	5768	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.561	30	*****	.40	13		
MUTUAL	6139	2	40.8	30	-5.4	73.	13	8.	27	725.5	161.5	.0	.0	.230	30	-1.17	.12	16		
NEWKIRK	6278	2	43.9	29	-4.1	71.	4	11.	26	613.0	103.0	.0	.0	2.471	29	*****	1.30	17		
ORIENTA	6751	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.580	30	-1.14	.30	17		
PERRY	7012	2	45.8	30	-3.8	73.	4	13.	26	576.0	114.0	.0	.0	2.430	30	.31	.83	13		
PONCA CITY FAA	7201	2	44.9	30	-2.4	73.	4	13.	26	602.0	71.0	.0	.0	2.343	30	.08	1.04	17		
RED ROCK 1 NNE	7505	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.820	30	.73	1.04	13		
WAYNOKA	9404	2	42.7	30	-5.3	74.	12	5.	26	669.0	159.0	.0	.0	.350	30	-1.18	.18	16		
WOODWARD	9760	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.871	30	-.50	.67	14		

NOVEMBER 1993 SUMMARY FOR NORTHEAST DIVISION (CD3)

NAME	ID	CD	DEV				MIN		HEAT		DEV		COOL		DEV		TOT	NUM	DEV	
			MEAN	NUM	FROM	MAX	DAY	TEMP	DAY	DEG	FROM	DEG	FROM	DAY	NORM	PPT			OBS	FROM
BARNSDALL	535	3	43.5	29	-5.6	73.	4	10.	26	623.5	146.5	.0	.0	2.491	30	-.49	1.00	17		
BARTLESVILLE 2W	548	3	44.4	30	-4.8	75.	4	11.	26	617.0	143.0	.0	.0	2.601	30	-.12	.93	14		
BIXBY	782	3	42.4	30	-6.0	76.	5	15.	27	679.0	181.0	.0	.0	2.050	30	-1.09	1.52	14		
BURBANK	1256	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.171	30	-.37	1.05	16		
CHELSEA 4 S	1717	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.960	31	*****	2.18	14		
CLAREMORE	1828	3	41.9	30	-6.6	73.	5	13.	27	694.0	199.0	.0	.0	2.990	30	-.24	2.03	14		
CLEVELAND 5 WSW	1902	3	47.7	26	*****	74.	4	21.	6	450.0	*****	.0	*****	2.332	30	*****	.90	17		
FORAKER	3250	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.190	30	-1.39	.81	17		
HOLLOW	4258	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.711	30	-.79	1.79	14		
HOMINY	4289	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.341	30	-.29	1.05	17		
HULAH DAM	4393	3	42.7	20	*****	72.	5	10.	26	446.0	*****	.0	*****	2.160	30	-.51	.78	17		
JAY TOWER	4567	3	42.3	30	*****	72.	5	14.	26	680.0	*****	.0	*****	3.080	30	*****	1.20	14		
KANSAS 1 ESE	4672	3	44.0	30	-5.8	69.	4	13.	26	631.5	175.5	.0	.0	5.003	30	1.15	3.27	14		
KEYSTONE DAM	4812	3	42.8	28	*****	75.	5	14.	26	622.0	*****	.0	*****	1.964	26	*****	1.03	14		
LENAPAH	5118	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.580	30	*****	1.20	14		
MANNFORD 6 NW	5522	3	45.8	29	-4.1	76.	4	10.	26	557.0	104.0	.0	.0	2.360	29	*****	1.02	14		
MARAMEC	5540	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.232	30	-.40	1.14	14		
MIAMI	5855	3	41.4	24	*****	69.	12	11.	26	565.5	*****	.0	*****	1.831	28	*****	.90	17		
NOWATA	6485	3	42.8	29	-6.5	73.	4	11.	26	642.5	171.5	.0	.0	2.210	29	*****	.81	13		
ONETA 1 WNW	6713	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.130	30	*****	1.19	14		
PAWHUSKA	6935	3	44.4	30	-4.2	73.	4	12.	26	618.5	126.5	.0	.0	2.712	30	-.11	1.05	17		
PAWNEE	6940	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.670	30	-.86	.87	13		
PRYOR 6 N	7309	3	41.8	29	-6.1	72.	5	13.	27	671.5	158.5	.0	.0	2.124	30	-1.50	.91	17		
RALSTON	7390	3	44.9	30	-4.2	74.	4	12.	26	604.0	127.0	.0	.0	1.171	30	-1.37	.78	12		
RAMONA 4 N	7394	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.660	30	*****	.66	16		
SKIATOOK	8258	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.350	30	-.69	1.22	14		
SPAVINAW	8380	3	46.4	30	-4.9	72.	4	14.	26	558.5	143.5	.0	.0	2.304	30	-1.44	1.04	14		
TULSA WSO APT	8992	3	45.0	30	-4.9	74.	4	14.	26	600.5	147.5	.0	.0	1.634	30	-1.50	1.06	14		
UPPER SPAVINAW	9101	3	45.2	22	*****	68.	23	17.	25	435.5	*****	.5	*****	3.102	30	*****	1.60	14		
VINITA 2 N	9203	3	43.9	30	-4.6	70.	4	11.	26	634.0	139.0	.0	.0	2.161	30	-1.67	1.27	13		
WAGONER	9247	3	46.5	30	-4.5	72.	4	15.	26	556.5	131.5	1.0	1.0	2.482	30	-1.10	.96	17		
WANN	9298	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.560	30	*****	.97	14		
WYNONA	9792	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.280	30	*****	1.03	15		

NOVEMBER 1993 SUMMARY FOR WEST CENTRAL DIVISION (CD4)

NAME	ID	CD	DEV				MIN		HEAT		DEV		COOL		DEV		TOT	NUM	DEV	
			MEAN	NUM	FROM	MAX	DAY	TEMP	DAY	DEG	FROM	DEG	FROM	DAY	NORM	PPT			OBS	FROM
CANTON DAM	1445	4	41.7	29	-5.3	72.	13	11.	26	675.5	135.5	.0	.0	.951	28	*****	.48	14		
CHEYENNE	1738	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.450	30	-.99	.25	17		
CLINTON	1909	4	45.1	30	-4.4	76.	4	10.	26	597.0	132.0	.0	.0	.770	30	-1.05	.31	14		
COLONY	2039	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.911	30	*****	.57	14		
CORDELL	2125	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.810	30	-.94	.31	14		
ELK CITY 1 E	2849	4	45.2	30	-3.4	77.	4	11.	26	594.5	102.5	.0	.0	.560	30	-1.09	.19	16		
ERICK 4 E	2944	4	44.3	30	-4.7	77.	4	8.	26	622.5	139.5	.0	.0	.250	30	-1.08	.15	14		
GEARY	3497	4	45.5	30	-3.0	75.	4	15.	26	583.5	88.5	.0	.0	.920	30	-.76	.60	14		
HAMMON 1 NNE	3871	4	41.1	30	-5.3	75.	5	6.	26	716.5	158.5	.0	.0	.400	30	-1.22	.23	14		
LEEDEY	5090	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.220	30	-1.33	.11	17		
MACKIE 4 NNW	5463	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.590	30	*****	.43	14		
MORAVIA 2 NNE	6035	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.720	30	-.66	.34	16		
OKEENE	6629	4	44.2	30	-5.1	74.	4	12.	26	625.0	154.0	.0	.0	.860	30	-1.09	.33	14		
RETROP	7565	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.800	30	*****	.45	16		
REYDON	7579	4	47.9	18	*****	75.	4	15.	6	307.5	*****	.0	*****	.540	18	*****	.23	14		
SAYRE	7952	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.430	30	-.92	.17	16		
SWEETWATER 2 E	8652	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.550	30	*****	.40	13		
TALOGA	8708	4	43.3	30	-4.1	74.	4	9.	25	651.5	123.5	1.0	1.0	.510	30	-1.29	.30	16		
THOMAS	8815	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.800	30	*****	.33	12		
VICI	9172	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.460	31	-1.13	.26	14		
WATONGA	9364	4	44.3	30	-4.1	75.	4	11.	26	621.0	123.0	1.5	1.5	.730	30	-1.08	.45	13		
WEATHERFORD	9422	4	46.3	16	*****	79.	5	19.	6	299.5	*****	.0	*****	.740	30	-.96	.32	12		

NOVEMBER 1993 SUMMARY FOR CENTRAL DIVISION (CD5)

NAME	ID	CD	DEV					HEAT		DEV		COOL		DEV		TOT	NUM	DEV		DAY
			MEAN	NUM	FROM	MAX	MIN	DEG	FROM	DEG	FROM	DEG	FROM	FROM	NORM			FROM	NORM	
			TEMP	OBS	NORM	TEMP	DAY	TEMP	DAY	DAY	NORM	DAY	NORM	DAY	NORM	PPT	OBS	NORM	MAX	
AMBER	200	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	*****	1.380	30	*****	.95	14	
ARCADIA	288	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	*****	1.990	30	*****	1.05	15	
TINKER AFB	325	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	*****	1.305	30	*****	.35	17	
BLANCHARD 2 SSW	830	5	47.2	30	-4.0	79.	4	12.	26	533.0	119.0	.0	.0	.730	30	-1.37	.36	17		
BRISTOW	1144	5	46.0	30	-4.5	76.	4	13.	26	571.5	131.5	.0	-5.0	1.654	30	-1.24	1.10	14		
CHANDLER	1684	5	46.5	30	-4.4	77.	4	14.	26	553.5	130.5	.0	.0	1.480	30	-1.00	.88	14		
CHICKASHA EX ST	1750	5	46.5	30	-4.3	78.	4	13.	26	556.5	130.5	.0	.0	1.600	30	-1.35	.74	14		
COX CITY 1 E	2196	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.870	30	*****	.29	17		
CRESCENT	2242	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.430	30	*****	2.53	14		
CUSHING	2318	5	42.7	30	-6.6	74.	5	14.	27	669.0	198.0	.0	.0	1.770	30	-.81	.70	14		
EL RENO 1 N	2818	5	45.6	30	-3.3	74.	4	13.	26	582.0	99.0	.0	.0	2.260	30	.51	1.70	14		
GUTHRIE	3821	5	46.7	30	-3.6	75.	4	12.	26	548.5	107.5	.0	.0	2.251	30	-.04	.90	14		
HENNESSEY 4 ESE	4055	5	43.7	30	-5.0	75.	4	11.	26	639.5	150.5	.0	.0	1.420	30	-.52	.90	14		
INGALLS	4489	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.162	30	*****	.50	13		
KINGFISHER 2 SE	4861	5	44.9	30	-4.7	75.	4	12.	26	602.5	140.5	.0	.0	2.180	30	.27	1.10	14		
KONAWA	4915	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.082	30	-.65	.89	14		
MARSHALL	5589	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.390	30	.48	1.31	14		
MEEKER 4 W	5779	5	45.8	30	-4.6	76.	4	13.	26	575.0	137.0	.0	.0	1.360	30	-1.20	.61	16		
MULHALL	6110	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.280	30	*****	.92	14		
NORMAN 3 S	6386	5	45.2	30	-5.9	80.	4	12.	26	595.5	178.5	.0	.0	1.230	30	-1.25	.41	14		
OILTON 2 SE	6616	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.920	30	*****	.83	16		
OKEMAH	6638	5	46.1	30	-5.1	77.	4	15.	26	566.5	152.5	.0	.0	.711	27	*****	.60	17		
OKLAHOMA CTY WS	6661	5	44.2	30	-5.4	76.	4	13.	26	625.5	163.5	.0	.0	1.340	30	-.64	.54	12		
PERKINS	7003	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.820	30	-.62	.92	14		
PIEDMONT	7068	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.000	30	*****	1.04	14		
PRAGUE	7264	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.160	30	-1.51	.58	17		
PURCELL 5 SW	7327	5	46.2	30	-4.7	79.	4	11.	26	565.0	142.0	.0	.0	1.651	30	-.85	.85	17		
SEMINOLE	8042	5	47.2	30	-5.1	78.	4	16.	27	534.5	149.5	.0	.0	1.282	30	-1.64	.78	14		
SHAWNEE	8110	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.342	30	-1.55	.66	17		
STELLA	8479	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.460	30	*****	.42	14		
STILLWATER 2 W	8501	5	43.4	30	-5.1	76.	5	13.	26	648.5	153.5	.0	.0	2.181	30	-.07	.83	14		
STROUD 1 N	8563	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.871	30	*****	.73	14		
TECUMSEH	8751	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.200	30	*****	.62	17		
TROUSDALE	8960	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.210	30	*****	.70	2		
UNION CITY 1 SE	9086	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.531	30	-.77	.82	14		
WELTY 1 SSE	9479	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.602	30	*****	.95	14		
WEWOKA	9575	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.360	30	-1.43	.53	17		

NOVEMBER 1993 SUMMARY FOR EAST CENTRAL DIVISION (CD6)

NAME	ID	CD	DEV					HEAT		DEV		COOL		DEV		TOT	NUM	DEV		DAY
			MEAN	NUM	FROM	MAX	MIN	DEG	FROM	DEG	FROM	DEG	FROM	FROM	NORM			FROM	NORM	
			TEMP	OBS	NORM	TEMP	DAY	TEMP	DAY	DAY	NORM	DAY	NORM	DAY	NORM	PPT	OBS	NORM	MAX	
ASHLAND	364	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	*****	2.062	30	*****	.95	17	
BEGGS	631	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	*****	1.900	30	*****	1.17	14	
BOYNTON	1027	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	*****	2.962	30	*****	1.10	14	
CALVIN	1391	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	*****	2.770	30	-.20	2.77	16	
CHECOTAH	1711	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	*****	3.512	30	.20	2.32	14	
CLAYTON 14 WNW	1858	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	*****	4.011	30	*****	1.75	17	
DEWAR 2 NE	2485	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	*****	2.660	30	-.44	1.48	14	
DUSTIN	2690	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	*****	2.980	30	*****	1.87	14	
EUFULA	2993	6	47.7	30	-5.0	75.	4	20.	27	519.5	145.5	.0	-5.0	3.971	30	.53	2.27	14		
HANNA	3884	6	45.0	30	-6.8	77.	4	15.	27	601.5	202.5	.0	.0	3.714	30	.25	2.36	14		
HARTSHORNE	3946	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	*****	3.290	30	*****	1.39	14	
HASKELL	3956	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	*****	1.992	30	-1.50	.84	17	
HOLDENVILLE	4235	6	46.4	30	-5.5	77.	4	16.	26	558.5	161.5	.0	.0	2.160	30	-.82	1.03	14		
LAKE EUFAULA	4975	6	45.7	29	*****	76.	5	17.	26	561.0	*****	.0	*****	4.114	29	*****	2.02	13		
LYONS 2 N	5437	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	*****	4.592	30	.82	2.23	13	
MARBLE CITY	5546	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	*****	4.261	30	*****	2.00	14	
MCALISTER FAA	5664	6	47.9	29	-3.9	77.	4	20.	26	503.0	100.0	8.0	1.0	3.344	30	-.17	2.09	14		
MCCURTAIN 1 SE	5693	6	47.7	30	-5.0	77.	4	21.	27	518.0	143.0	.0	-6.0	4.605	30	.24	1.65	17		
MUSKOGEE	6130	6	45.5	30	-5.4	72.	5	17.	27	585.0	158.0	.0	.0	3.860	30	.31	2.00	14		
OKMULGEE W W	6670	6	41.6	29	-7.9	76.	5	11.	4	679.0	214.0	.0	.0	1.892	30	-1.27	.70	14		
OKTAH 2 NE	6678	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	*****	4.100	30	*****	3.40	14	
QUINTON	7372	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	*****	3.323	30	-.42	1.40	14	
SALLISAW 2 NE	7862	6	44.0	26	*****	69.	23	16.	27	546.0	*****	.0	*****	5.272	26	*****	2.80	14		
SCIPIO	7979	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	*****	3.170	30	*****	1.83	14	
SCRAPER	7993	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	*****	4.780	30	*****	4.00	14	
SHORT	8170	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	*****	3.810	30	*****	1.51	17	
TAHLEQUAH	8677	6	45.3	30	-4.9	71.	5	16.	26	590.0	141.0	.0	-5.0	4.590	30	1.01	3.63	14		
WEBBERS FALLS	9445	6	43.3	28	*****	74.	5	18.	27	609.0	*****	.0	*****	3.922	28	*****	2.07	14		
WESTVILLE	9523	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	*****	3.911	30	*****	2.56	14	
WETUMKA 3 NE	9571	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	*****	2.600	29	*****	1.42	14	



NOVEMBER 1993 SUMMARY FOR SOUTHWEST DIVISION (CD7)

NAME	ID	CD	DEV				HEAT			DEV		COOL		DEV		TOT	NUM	DEV	MAX	24-HR	DAY
			MEAN	NUM	FROM	MAX	DEG	FROM	DEG	FROM	DEG	FROM	DEG	FROM	FROM						
			TEMP	OBS	NORM	TEMP	DAY	TEMP	DAY	DAY	NORM	DAY	NORM	DAY	NORM	PPT	OBS	NORM			
ALTUS IRR STA	179	7	47.5	30	-4.5	78.	4	12.	26	525.5	138.5	2.0	2.0	1.020	30	-.29	.58	14			
ALTUS DAM	184	7	41.9	30	-7.7	77.	5	6.	26	692.0	230.0	.0	.0	.820	30	-.54	.38	14			
ANADARKO	224	7	44.9	29	-5.0	77.	4	12.	26	584.0	131.0	.0	.0	2.600	29	*****	1.16	14			
APACHE	260	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.370	30	-.44	.96	14			
ALTUS AFB	447	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.664	30	*****	.40	14			
CARNEGIE 2 ENE	1504	7	46.3	30	-3.8	79.	4	10.	26	562.0	115.0	.0	.0	1.250	30	-.35	.64	14			
CHATTANOOGA	1706	7	46.9	30	-4.7	79.	4	12.	26	542.5	140.5	.5	.5	.710	30	-.83	.30	13			
DUNCAN 11 W	2668	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.842	30	*****	.28	13			
FREDERICK	3353	7	44.6	29	-6.1	75.	5	13.	26	591.0	162.0	.0	.0	.580	29	*****	.50	16			
GRANDFIELD 4 NW	3709	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.470	30	-1.15	.28	14			
HEADRICK	3998	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.920	30	*****	.59	14			
HOBART FAA APT	4204	7	45.3	30	-4.8	75.	4	12.	26	592.0	145.0	.0	.0	.921	30	-.49	.62	14			
HOLLIS	4249	7	45.5	30	-5.1	78.	4	10.	26	585.5	153.5	.0	.0	.580	30	-.53	.24	14			
LAWTON	5063	7	44.7	30	-5.9	78.	5	18.	25	608.0	176.0	.0	.0	.720	30	-1.08	.33	13			
FORT SILL	5068	7	47.0	30	*****	79.	4	19.	25	540.5	*****	.0	*****	1.485	30	*****	.70	18			
LOOKEBA 2 ENE	5329	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.381	30	-.41	.86	14			
MANGUM RES STA	5509	7	47.0	30	-3.8	76.	4	9.	26	539.5	113.5	.0	.0	.750	30	-.51	.47	14			
RANDLETT 9 E	7403	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.812	30	*****	.40	14			
ROOSEVELT	7727	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.050	30	-.43	.71	14			
SEDAN	8016	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.190	30	*****	.56	14			
SNYDER	8299	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.021	30	-.52	.43	13			
VINSON 3 WNW	9212	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.460	30	-.76	.18	16			
WALTERS	9278	7	47.4	30	-5.0	76.	4	15.	26	530.0	147.0	1.5	1.5	.950	30	-1.14	.27	14			
WICHITA MT WLR	9629	7	42.2	29	-6.7	77.	5	16.	27	662.5	179.5	.0	.0	1.830	29	*****	1.43	13			
WILLOW	9668	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.740	30	*****	.37	16			

NOVEMBER 1993 SUMMARY FOR SOUTH CENTRAL DIVISION (CD8)

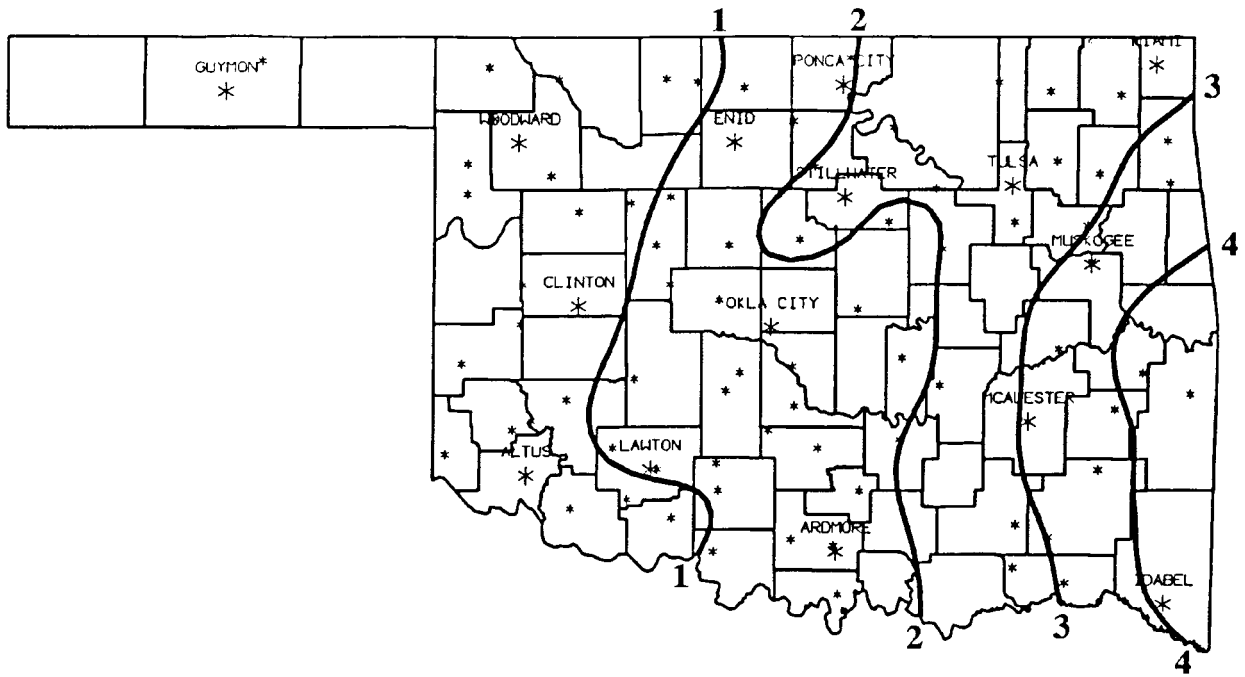
NAME	ID	CD	DEV				HEAT			DEV		COOL		DEV		TOT	NUM	DEV	MAX	24-HR	DAY
			MEAN	NUM	FROM	MAX	DEG	FROM	DEG	FROM	DEG	FROM	DEG	FROM	FROM						
			TEMP	OBS	NORM	TEMP	DAY	TEMP	DAY	DAY	NORM	DAY	NORM	DAY	NORM	PPT	OBS	NORM			
ADA	17	8	45.8	30	-6.3	75.	4	15.	26	576.5	183.5	.0	-6.0	2.190	30	-.61	.97	14			
ALLEN	147	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.270	30	*****	1.05	14			
ARDMORE	292	8	48.7	30	-5.8	76.	4	19.	26	490.5	168.5	1.5	-5.5	2.050	30	-.38	.86	13			
ATOKA DAM	394	8	48.8	19	*****	76.	15	24.	8	307.5	*****	.0	*****	3.272	19	*****	1.62	15			
BOKCHITO	917	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.830	30	*****	.81	16			
CANEY	1437	8	43.7	16	*****	65.	28	18.	26	341.0	*****	.0	*****	2.850	16	*****	1.35	17			
CENTRAHOMA	1648	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.550	30	*****	1.40	14			
CHICKASAW NRA	1745	8	45.0	30	-5.6	76.	5	15.	26	602.0	170.0	3.0	3.0	2.000	30	-.67	.85	14			
COLEMAN	2011	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.570	30	*****	.85	17			
COMANCHE	2054	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.810	30	-1.27	.31	16			
DAISY 4 ENE	2354	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.861	30	-1.14	1.28	17			
DUNCAN	2660	8	45.3	30	-6.1	76.	5	14.	26	590.5	178.5	.0	.0	1.140	30	-1.01	.51	14			
DURANT USDA	2678	8	45.8	30	-6.2	79.	5	19.	26	577.0	180.0	2.5	-4.5	4.060	30	.92	2.10	14			
FARRIS 3 WNW	3083	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.530	30	-1.08	1.03	16			
GRADY	3688	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.430	30	*****	.80	14			
HEALDTON	4001	8	47.5	30	-4.8	78.	12	17.	26	526.5	140.5	3.0	3.0	.891	30	-1.37	.32	17			
HENNEPIN	4052	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.491	30	*****	.71	14			
KETCHUM RANCH	4780	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.180	30	*****	.65	16			
KINGSTON	4865	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.720	29	*****	1.05	16			
LEHIGH	5108	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.655	30	*****	.85	17			
LINDSAY 2 W	5216	8	46.8	30	-4.5	77.	4	13.	26	546.5	135.5	.0	.0	.941	30	-1.28	.29	17			
LOCO 6 SE	5247	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.770	30	*****	.31	16			
MADILL	5468	8	49.6	29	-4.2	78.	4	18.	26	449.0	107.0	1.0	-5.0	2.380	30	-.42	.83	15			
MARIETTA	5563	8	48.8	30	-4.8	78.	12	15.	26	489.0	140.0	3.0	-4.0	1.460	30	-1.14	.60	16			
MARLOW 1 WSW	5581	8	47.9	30	-3.6	79.	4	11.	26	512.5	107.5	.0	.0	.572	30	-1.57	.28	14			
MCGEE CREEK DAM	5713	8	46.7	30	*****	76.	5	18.	27	549.5	*****	.0	*****	2.731	30	*****	1.07	17			
PAULS VALLEY	6926	8	46.8	30	-5.3	78.	4	14.	27	545.5	153.5	.5	.5	1.622	30	-.91	.58	14			
PONTOTOC	7214	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.440	30	-.52	.77	16			
TISHOMINGO NWLR	8884	8	48.8	22	*****	78.	4	12.	26	358.0	*****	2.5	*****	2.670	22	*****	1.04	15			
TUSSY	9032	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.530	30	*****	.34	13			
WAURIKA	9395	8	47.0	30	-6.1	76.	4	16.	26	539.5	176.5	.0	-6.0	.000	30	-1.82	.00	30			
WAURIKA DAM	9399	8	47.2	19	*****	76.	15	20.	1	338.0	*****	.0	*****	.830	21	*****	.36	16			

**NOVEMBER 1993 SUMMARY FOR SOUTHEAST DIVISION (CD9)**

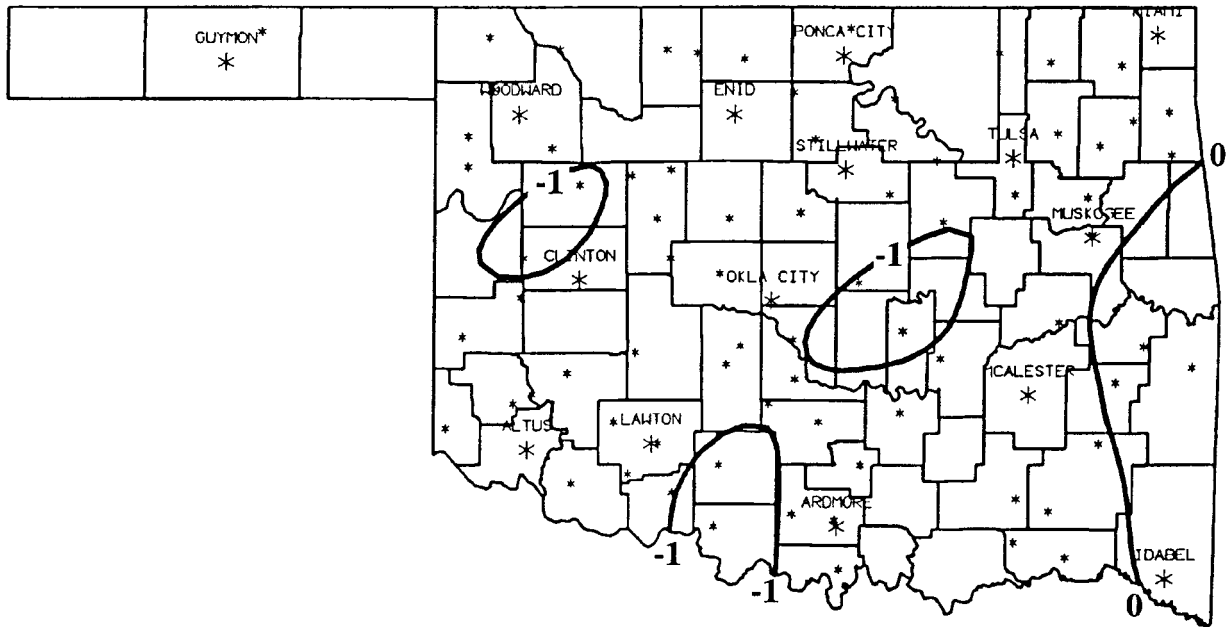
NAME	ID	CD	DEV						HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY	
			MEAN TEMP	NUM OBS	FROM NORM	MAX TEMP	MIN DAY	TEMP DAY										
ANTLERS	256	9	45.8	29	-7.2	77.	4	15.	27	556.5	190.5	.5	-5.5	3.100	30	-.63	1.70	17
BATTIEST 1 SSW	567	9	44.9	29	*****	74.	13	14.	27	587.0	*****	4.0	*****	3.571	29	*****	1.70	17
BEAR MT TWR	584	9	46.5	10	*****	71.	15	22.	8	185.5	*****	.0	*****	5.270	25	*****	2.02	14
BENGAL	670	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.761	30	*****	1.29	14
BOSWELL 4 NNW	980	9	47.5	29	-5.8	77.	4	18.	27	512.0	153.0	5.5	-2.5	2.322	30	-1.33	1.16	17
BROKEN BOW 1 N	1162	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.160	30	.92	1.66	14
BROKEN BOW DAM	1168	9	48.1	30	-4.2	79.	5	19.	27	514.5	133.5	6.5	6.5	4.951	30	.48	1.43	14
CARTER TWR	1544	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.170	30	-.11	1.62	17
FANSHAW	3065	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.870	30	-.64	1.43	16
HEAVENER 1 SE	4008	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.962	30	-.33	1.50	17
HEE MT TWR	4017	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.560	30	1.20	1.83	14
HUGO	4384	9	48.6	30	-5.7	77.	13	19.	27	492.5	162.5	1.0	-8.0	3.141	30	-.81	.87	17
IDABEL	4451	9	49.5	30	-3.0	79.	14	19.	27	469.5	89.5	6.0	1.0	4.243	30	.14	1.29	14
POTEAU W W	7254	9	46.2	30	*****	77.	13	17.	6	566.5	*****	3.5	*****	3.671	30	*****	1.55	16
SMITHVILLE 1 W	8285	9	45.1	30	-5.7	74.	13	13.	28	602.5	176.5	5.0	5.0	5.204	30	.82	1.85	14
SPIRO	8416	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.420	30	2.00	2.97	14
TUSKAHOMA	9023	9	47.0	30	-5.9	77.	13	17.	26	541.5	172.5	1.0	-5.0	4.362	30	.23	1.63	14
VALLIANT 3 W	9118	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.850	30	.69	2.45	17
WILBURTON 9 ENE	9634	9	46.1	30	-5.2	75.	13	17.	27	567.5	152.5	.0	.0	5.061	30	.77	2.25	13

**NOVEMBER 1993 CLIMATE DIVISION SUMMARY**

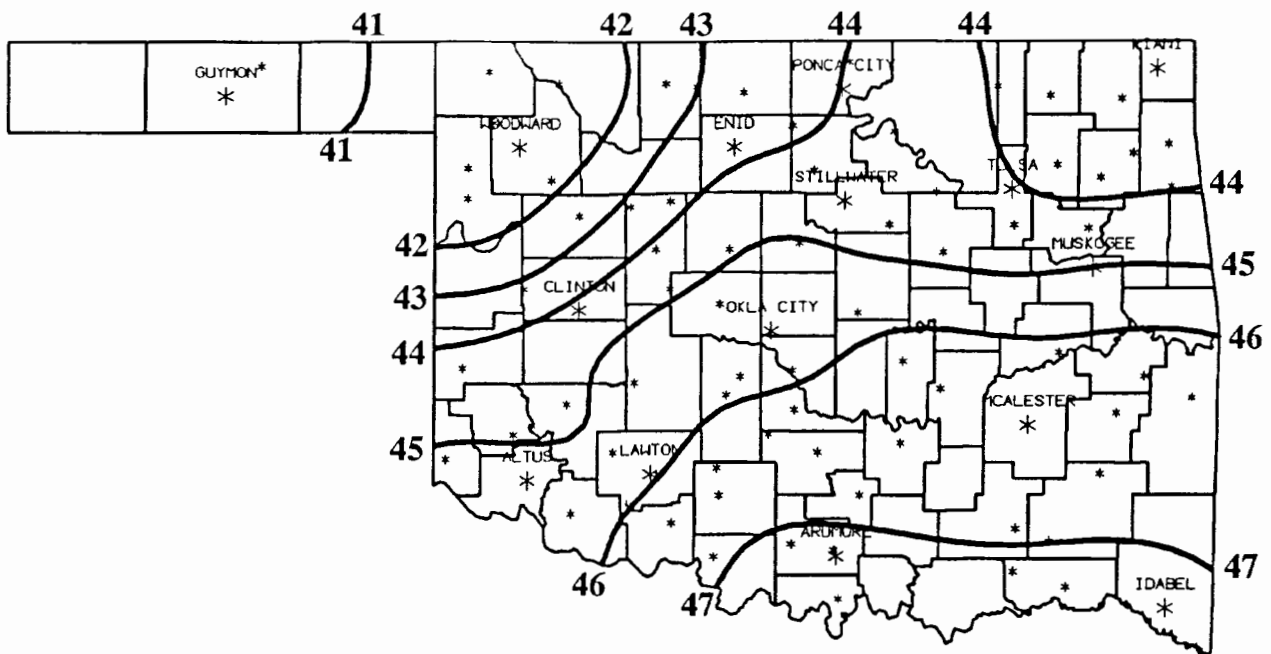
CLIMATE DIV	MEAN TEMP	NUM STA	DEV						HEAT DEGREE DAYS	DEV FROM NORM	COOL DEGREE DAYS	DEV FROM NORM	TOT PPT	NUM STA	DEV FROM NORM	MAX 24-HR	DAY
			FROM NORM	MAX TEMP	MIN TEMP	DAY	TEMP DAY	DAY									
1	40.9	8	-4.2	77.0	3	2.0	25	717.4	119.8	.1	.1	.76	11	-.25	.70	12	
2	42.6	14	-4.8	77.0	12	3.0	26	669.3	142.3	.3	.3	1.18	22	-.68	1.30	17	
3	44.0	15	-5.1	76.0	4	10.0	26	624.5	147.5	.1	.1	2.39	29	-.69	3.27	14	
4	43.9	9	-4.4	79.0	5	6.0	26	631.9	129.3	.3	.3	.62	20	-.98	.60	14	
5	45.5	16	-4.9	80.0	4	11.0	26	585.4	145.7	.0	-.3	1.69	36	-.71	2.53	14	
6	45.9	9	-5.5	77.0	4	11.0	4	568.4	154.9	.9	-1.4	3.39	26	-.08	4.00	14	
7	45.5	13	-5.2	79.0	4	6.0	26	581.2	150.4	.3	.3	.91	22	-.65	1.43	13	
8	47.1	13	-5.4	79.0	4	11.0	26	538.0	155.8	1.1	-2.2	1.70	27	-1.00	2.10	14	
9	46.9	10	-5.8	79.0	14	13.0	28	541.0	165.9	3.3	-1.4	4.34	17	.14	2.97	14	



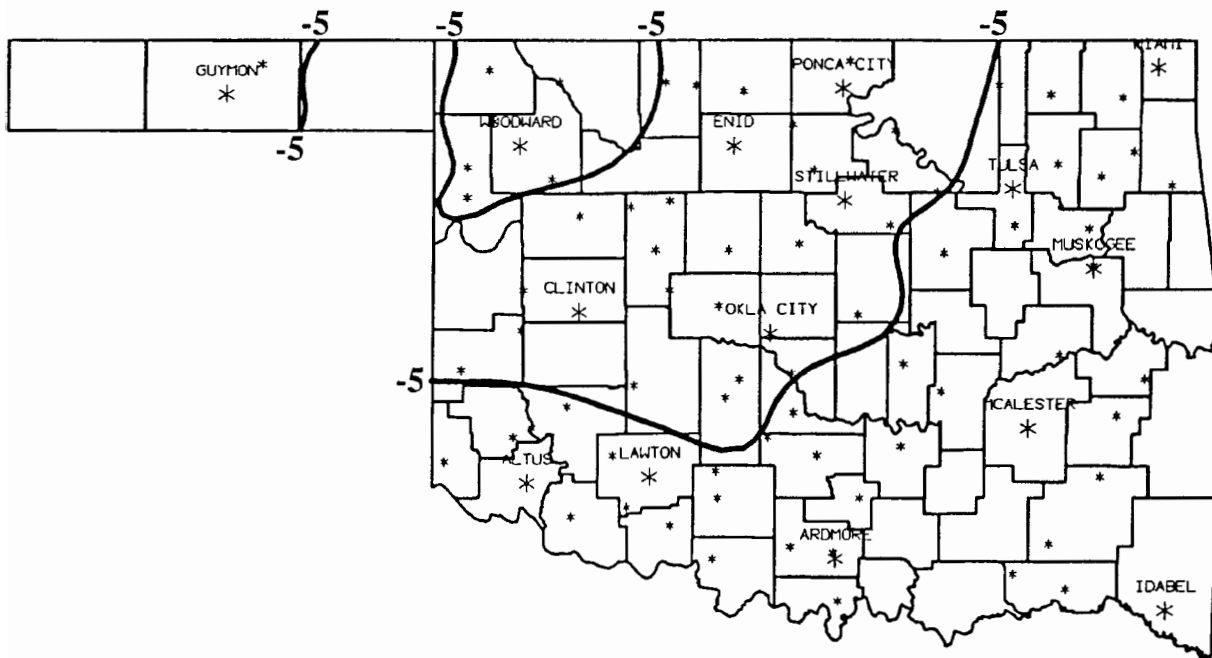
NOVEMBER 1993 TOTAL PRECIPITATION  
(Inches)



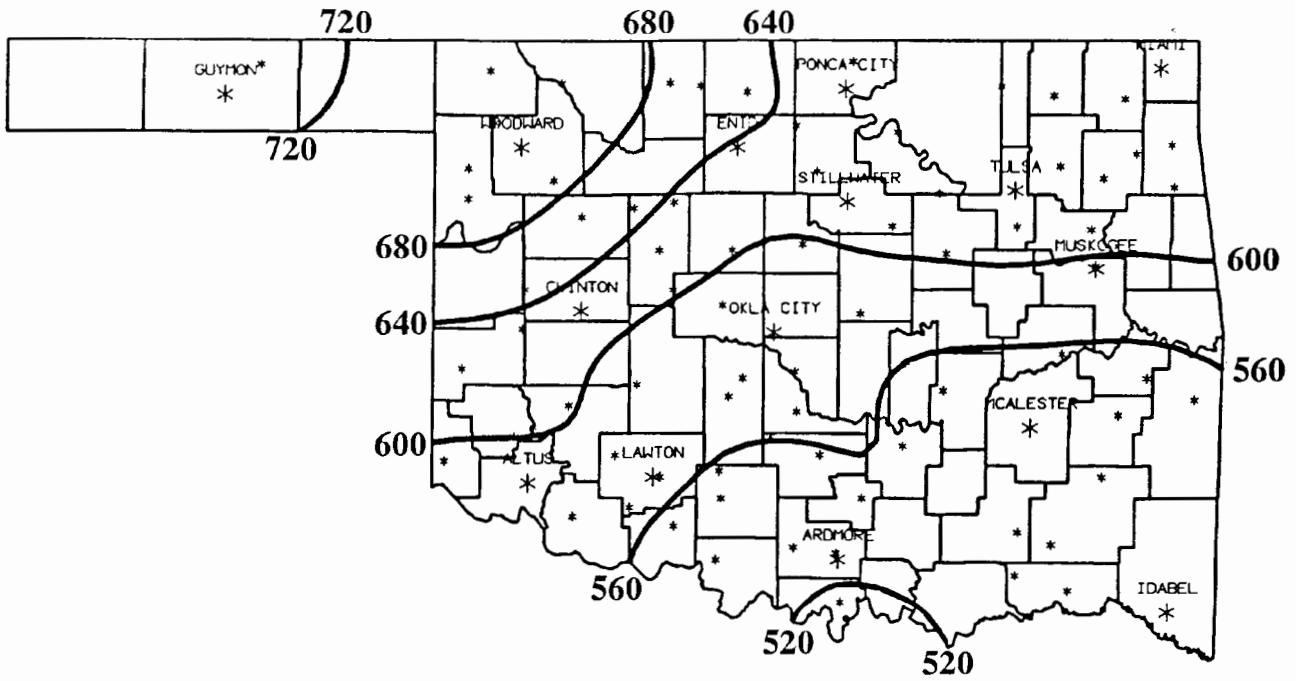
NOVEMBER 1993 DEVIATION FROM NORMAL PRECIPITATION  
(Inches)



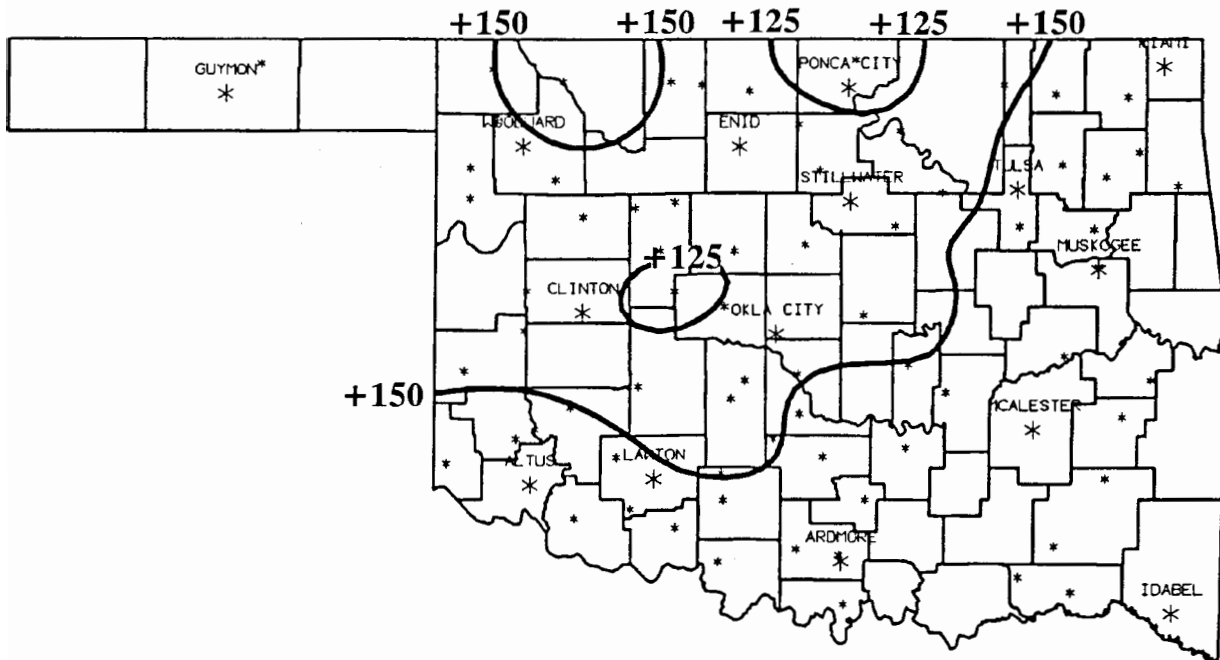
NOVEMBER 1993 AVERAGE MONTHLY TEMPERATURES  
(Degrees F)



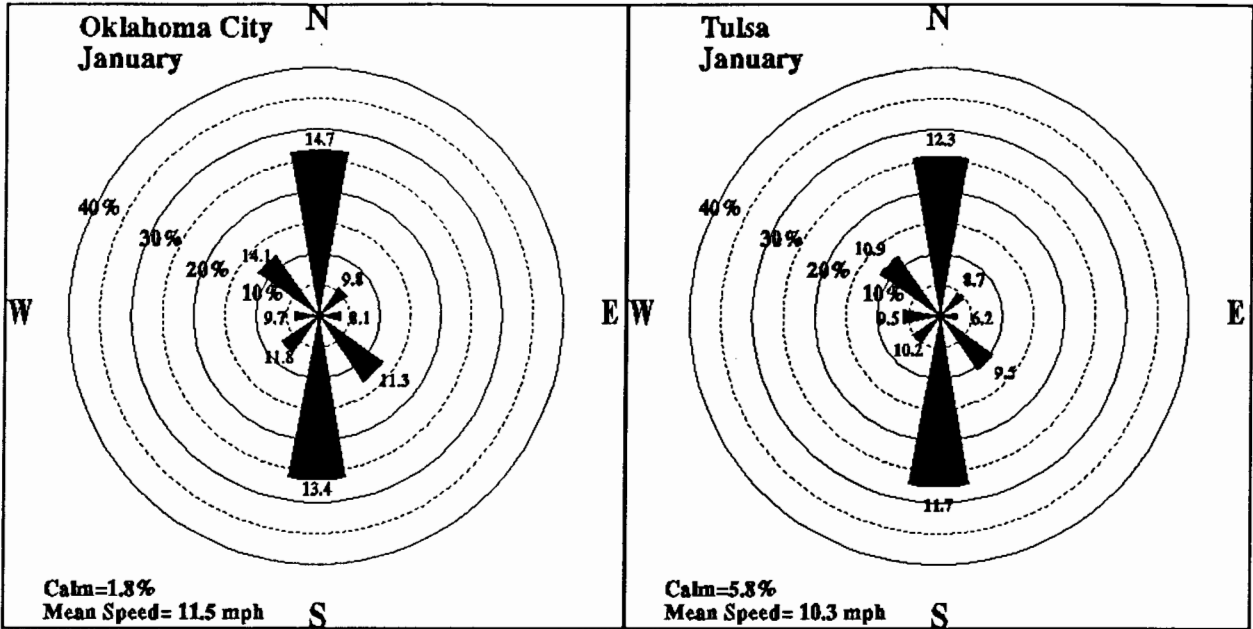
NOVEMBER 1993 DEVIATION FROM NORMAL TEMPERATURES  
(Degrees F)



NOVEMBER 1993 HEATING DEGREE DAYS



NOVEMBER 1993 DEVIATION FROM NORMAL HEATING DEGREE DAYS



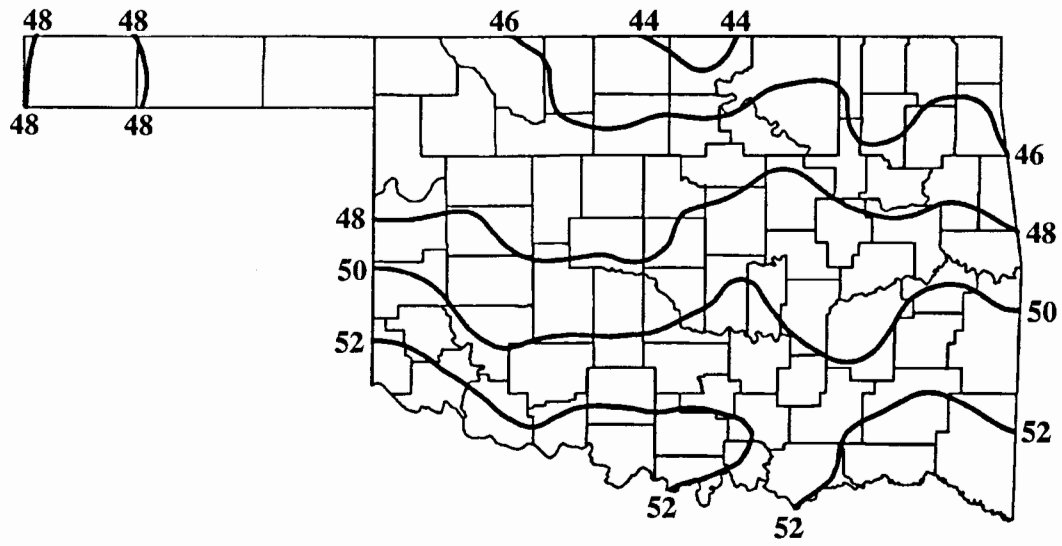
**January Wind Roses for Oklahoma City and Tulsa.** Percents represent the frequency of winds from each direction. The numbers at the ends of the bars indicate the average wind speed (miles per hour) from that direction.

**JANUARY 1994 SUNRISE AND SUNSET**

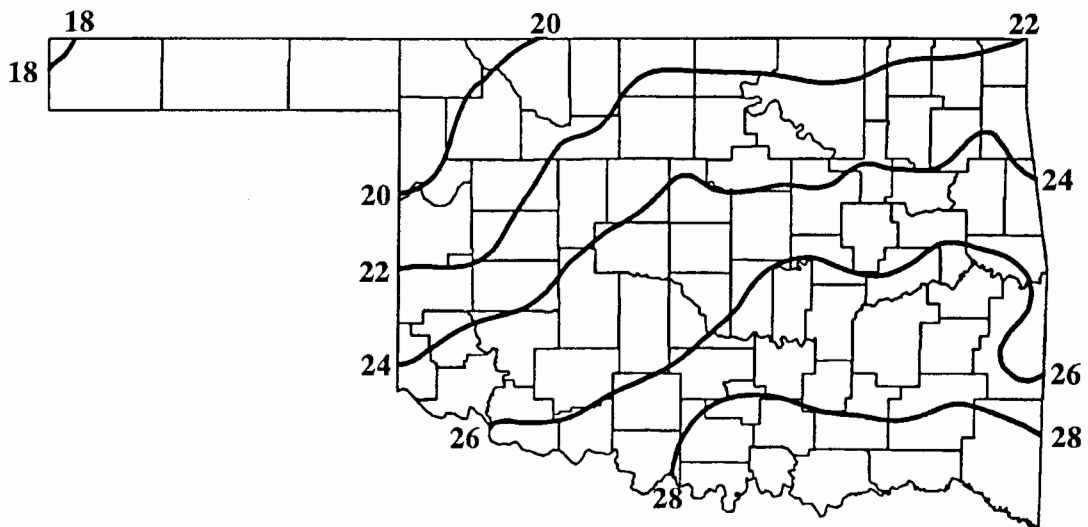
**OKLAHOMA CITY**

**TULSA**

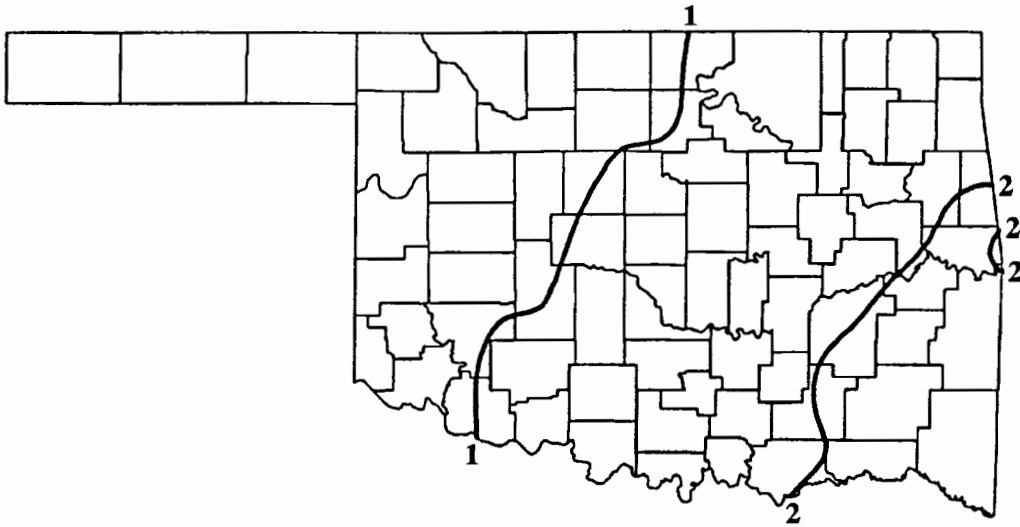
DATE	SUNRISE	SUNSET	DAYLIGHT	DATE	SUNRISE	SUNSET	DAYLIGHT
94 1 1	7:38AM	5:30PM cst	9 hrs 53 mins	94 1 1	7:33AM	5:21PM cst	9 hrs 49 mins
94 1 2	7:38AM	5:31PM cst	9 hrs 53 mins	94 1 2	7:33AM	5:22PM cst	9 hrs 49 mins
94 1 3	7:38AM	5:31PM cst	9 hrs 54 mins	94 1 3	7:33AM	5:23PM cst	9 hrs 50 mins
94 1 4	7:38AM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

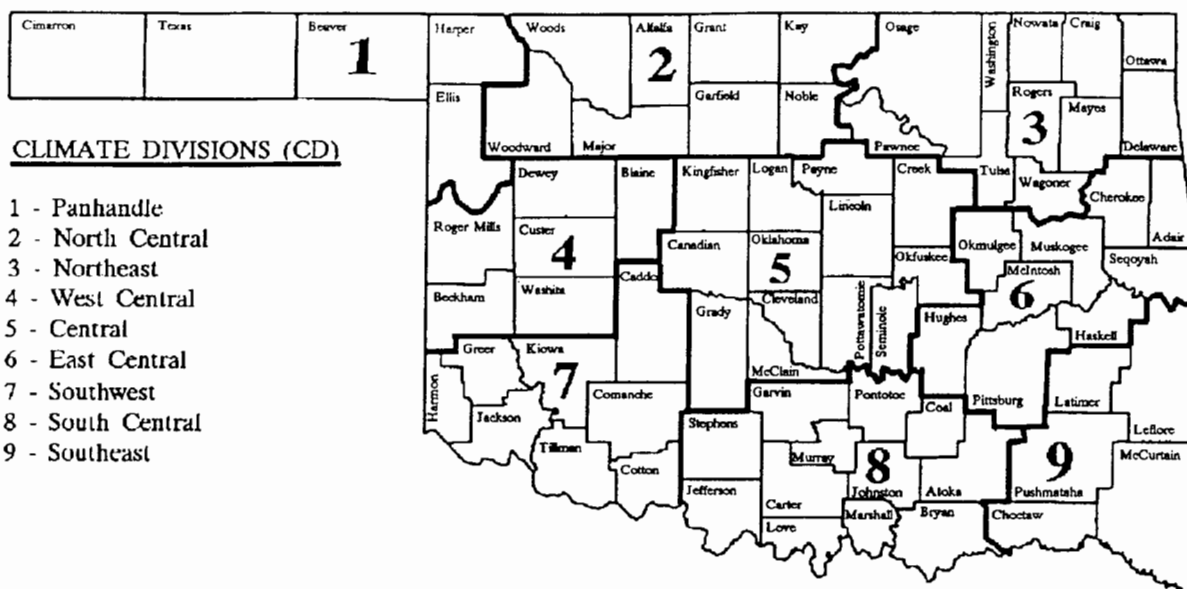
(DECEMBER 1993 - FEBRUARY 1994)

Precipitation - Greater Than Normal Statewide

Temperature - Near Normal Statewide



# OKLAHOMA



## EXPLANATION OF TABLES

Two kinds of tables appear in this summary. The first is a set of tables containing all reporting stations grouped by climate division. The figure above shows the locations of the climate divisions. Each table contains the following information for each station:

- Station Name:**
- Station Identification Number:** These are usually assigned by the National Climatic Data Center.
- Climate Division:** See the figure above.
- Number of Temperature Observations:** These are the actual number of temperature reports recorded at the station during the current month. Missing observations may result in artificially high or low mean monthly temperatures.
- Deviation from Normal:** The deviation of the observed mean monthly temperature from the monthly station normal. A positive value indicates the month was warmer than normal. A negative value indicates the month was cooler than normal. Normal monthly temperatures may be calculated by subtracting the deviation from the observed temperature.
- Maximum Daily Maximum:** The maximum daily maximum temperature observed during the current month and year and the day which it occurred.
- Minimum Daily Minimum:** The minimum daily minimum temperature observed during the current month and year and the day which it occurred.
- Heating Degree Days:** HDD are calculated each day of the month for which there is a temperature report and the average temperature for the day exceeds 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 is less than 65 degrees. Daily values are summed to give a monthly total. They are a proxy measure of how much cooling was required to maintain a comfortable indoor temperature. Missing observations may result in an artificially high or low value. For June, CDD would be calculated as:

$$\sum_{i=1}^{30} ((TMAX_i + TMIN_i) / 2) - 65$$

Deviation from Normal Cooling Degree Days: A positive value indicates higher than normal cooling requirements for the month as a whole. A negative value indicates lower than normal cooling requirements for the month as a whole. Normal cooling degree days may be found by subtracting the deviation from the observed cooling degree days.

Total Precipitation: Often incorrectly referred to as mean precipitation, this value is the sum of all precipitation reported during the month at a station. If snow occurred, it is to be melted and its water equivalent recorded.

Number of Precipitation Observations: The number of days a rain or no-rain observation was reported. Missing observations frequently result in artificially low total precipitation values.

Deviation from Normal Precipitation: A positive value indicates more rain than normal was received. A negative value indicates less than was expected rainfall was received. Normal rainfall may be calculated by subtracting the deviation from monthly total.

Maximum 24-Hour Report and Day: The maximum amount of precipitation recorded during the station's 24-hour observation period for the current month and year and the day on which it was recorded.

The second set of tables contain similar information but are the average or extreme over all the stations reporting in each climate division.

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

OKLAHOMA CITY CLIMATE CALENDAR

January 1994

Normal	1	Actual	Normal	2	Actual	Normal	3	Actual	Normal	4	Actual	Normal	5	Actual	Normal	6	Actual	Normal	7	Actual		
46.5	max		47.1	max		45.6	max		43.8	max		46.8	max		47.8	max		44.9	max			
26.5	min		27.4	min		25.0	min		25.2	min		25.1	min		26.5	min		24.2	min			
.02	ppt		.07	ppt		.06	ppt		.02	ppt		.05	ppt		.02	ppt		.01	ppt			
29	hdd		28	hdd		30	hdd		31	hdd		28	hdd		29	hdd		30	hdd			
0	cdd		0	cdd		0	cdd		0	cdd		0	cdd		0	cdd		0	cdd			
Highest Max		74-1910	Highest Max		70-1964	Highest Max		71-1939	Highest Max		72-1927	Highest Max		71-1927	Highest Max		68-1921	Highest Max		73-1965		
Lowest Max		13-1979	Lowest Max		13-1911	Lowest Max		10-1919	Lowest Max		11-1959	Lowest Max		18-1924	Lowest Max		14-1909	Lowest Max		15-1913		
Lowest Min		2-1928	Lowest Min		-2-1911	Lowest Min		-9-1911	Lowest Min		-7-1947	Lowest Min		-2-1959	Lowest Min		-2-1912	Lowest Min		3-1912		
Highest Min		51-1966	Highest Min		56-1950	Highest Min		52-1922	Highest Min		50-1955	Highest Min		48-1946	Highest Min		52-1907	Highest Min		61-1907		
Greatest ppt		.63-1892	Greatest ppt		1.01-1961	Greatest ppt		1.03-1908	Greatest ppt		1.81-1932	Greatest ppt		1.00-1962	Greatest ppt		1.02-1934	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		44.8	max		42.6	max		44.1	max		46.5	max		47.0	max		48.3	max			
23.5	min		23.5	min		22.7	min		22.6	min		25.1	min		25.3	min		26.3	min			
.03	ppt		.02	ppt		.02	ppt		.01	ppt		.03	ppt		.01	ppt		.02	ppt			
30	hdd		31	hdd		32	hdd		32	hdd		30	hdd		29	hdd		28	hdd			
0	cdd		0	cdd		0	cdd		0	cdd		0	cdd		0	cdd		0	cdd			
Highest Max		71-1923	Highest Max		70-1902	Highest Max		75-1990	Highest Max		77-1911	Highest Max		73-1928	Highest Max		73-1928	Highest Max		75-1928		
Lowest Max		11-1937	Lowest Max		9-1977	Lowest Max		13-1962	Lowest Max		2-1918	Lowest Max		6-1912	Lowest Max		11-1905	Lowest Max		12-1905		
Lowest Min		-4-1988	Lowest Min		-2-1977	Lowest Min		-3-1977	Lowest Min		-7-1918	Lowest Min		-7-1912	Lowest Min		-4-1916	Lowest Min		-1-1905		
Highest Min		49-1949	Highest Min		45-1966	Highest Min		47-1928	Highest Min		50-1898	Highest Min		51-1960	Highest Min		51-1962	Highest Min		50-1928		
Greatest ppt		1.45-1935	Greatest ppt		.57-1907	Greatest ppt		.66-1905	Greatest ppt		1.10-1916	Greatest ppt		.78-1927	Greatest ppt		.79-1992	Greatest ppt		.46-1898		
Normal	15	Actual	Normal	16	Actual	Normal	17	Actual	Normal	18	Actual	Normal	19	Actual	Normal	20	Actual	Normal	21	Actual		
49.2	max		46.5	max		47.6	max		46.4	max		44.1	max		45.9	max		45.6	max			
25.5	min		25.5	min		26.1	min		25.7	min		25.1	min		25.0	min		26.0	min			
.02	ppt		.04	ppt		.04	ppt		.10	ppt		.09	ppt		.02	ppt		.08	ppt			
28	hdd		29	hdd		28	hdd		29	hdd		30	hdd		30	hdd		29	hdd			
0	cdd		0	cdd		0	cdd		0	cdd		0	cdd		0	cdd		0	cdd			
Highest Max		77-1914	Highest Max		76-1894	Highest Max		73-1894	Highest Max		74-1951	Highest Max		75-1914	Highest Max		80-1986	Highest Max		71-1967		
Lowest Max		14-1930	Lowest Max		11-1930	Lowest Max		8-1930	Lowest Max		8-1892	Lowest Max		12-1962	Lowest Max		18-1984	Lowest Max		12-1954		
Lowest Min		-2-1905	Lowest Min		0-1930	Lowest Min		-9-1930	Lowest Min		-9-1930	Lowest Min		-11-1892	Lowest Min		1-1985	Lowest Min		-3-1930		
Highest Min		59-1959	Highest Min		57-1990	Highest Min		52-1894	Highest Min		48-1895	Highest Min		54-1904	Highest Min		53-1921	Highest Min		56-1921		
Greatest ppt		1.07-1932	Greatest ppt		.70-1990	Greatest ppt		1.16-1926	Greatest ppt		1.07-1968	Greatest ppt		2.76-1894	Greatest ppt		1.29-1904	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		46.8	max		50.1	max		49.2	max		46.4	max		45.8	max		47.1	max			
25.5	min		25.1	min		27.2	min		27.9	min		26.5	min		25.3	min		26.0	min			
.03	ppt		.02	ppt		.02	ppt		.08	ppt		.03	ppt		.03	ppt		.02	ppt			
29	hdd		29	hdd		26	hdd		26	hdd		29	hdd		29	hdd		28	hdd			
0	cdd		0	cdd		0	cdd		0	cdd		0	cdd		0	cdd		0	cdd			
Highest Max		79-1967	Highest Max		75-1909	Highest Max		81-1950	Highest Max		77-1952	Highest Max		72-1953	Highest Max		72-1914	Highest Max		78-1893		
Lowest Max		16-1962	Lowest Max		13-1963	Lowest Max		8-1894	Lowest Max		15-1905	Lowest Max		12-1897	Lowest Max		17-1961	Lowest Max		21-1948		
Lowest Min		-8-1930	Lowest Min		-1-1963	Lowest Min		-8-1894	Lowest Min		-3-1894	Lowest Min		0-1902	Lowest Min		3-1963	Lowest Min		5-1948		
Highest Min		50-1921	Highest Min		51-1967	Highest Min		51-1944	Highest Min		58-1944	Highest Min		54-1911	Highest Min		56-1914	Highest Min		60-1968		
Greatest ppt		.39-1920	Greatest ppt		1.16-1921	Greatest ppt		.37-1949	Greatest ppt		1.26-1949	Greatest ppt		1.25-1916	Greatest ppt		.62-1985	Greatest ppt		.44-1989		
Normal	29	Actual	Normal	30	Actual	Normal	31	Actual	Normal	31	Actual	Normal	31	Actual	JANUARY AVERAGES					Normal	31	Actual
48.1	max		46.9	max		48.4	max		49.2	max		46.4	max		45.8	max		47.1	max			
26.2	min		26.2	min		27.8	min		27.9	min		26.5	min		25.3	min		26.0	min			
.06	ppt		.07	ppt		.06	ppt		.08	ppt		.03	ppt		.03	ppt		.02	ppt			
28	hdd		28	hdd		27	hdd		26	hdd		29	hdd		29	hdd		28	hdd			
0	cdd		0	cdd		0	cdd		0	cdd		0	cdd		0	cdd		0	cdd			
Highest Max		76-1911	Highest Max		74-1917	Highest Max		83-1911	Highest Max		77-1952	Highest Max		72-1953	Highest Max		72-1914	Highest Max		78-1893		
Lowest Max		13-1966	Lowest Max		17-1949	Lowest Max		6-1918	Lowest Max		15-1905	Lowest Max		12-1897	Lowest Max		17-1961	Lowest Max		21-1948		
Lowest Min		-1-1895	Lowest Min		-1-1895	Lowest Min		-1-1978	Lowest Min		-3-1894	Lowest Min		0-1902	Lowest Min		3-1963	Lowest Min		5-1948		
Highest Min		51-1982	Highest Min		55-1988	Highest Min		52-1911	Highest Min		58-1944	Highest Min		54-1911	Highest Min		56-1914	Highest Min		60-1968		
Greatest ppt		1.84-1982	Greatest ppt		1.34-1982	Greatest ppt		1.98-1923	Greatest ppt		.37-1949	Greatest ppt		1.25-1916	Greatest ppt		.62-1985	Greatest ppt		.44-1989		

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

**TULSA CLIMATE CALENDAR**

The data on this calendar are for Tulsa. Normal values are calculated for the period 1948-1991.

Temperature extremes are for the period 1905-1992; precipitation extremes are for the period 1948-1992.

**January 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 .06 ppt 28 hdd 0 cdd	73-1910	47.0 max 27.0 min .06 ppt 28 hdd 0 cdd	72-1950	46.0 max 24.0 min .11 ppt 30 hdd 0 cdd	71-1955	44.0 max 25.0 min .03 ppt 30 hdd 0 cdd	70-1956	46.0 max 25.0 min .02 ppt 29 hdd 0 cdd	73-1984	46.0 max 25.0 min .01 ppt 29 hdd 0 cdd	46.0 max 25.0 min .01 ppt 31 hdd 0 cdd	44.0 max 24.0 min .01 ppt 31 hdd 0 cdd	77-1965
Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	73-1910 13-1974 0-1928 53-1966 50-1965	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	72-1950 25-1979 2-1911 55-1950 50-1961	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	71-1955 14-1959 -2-1919 52-1955 1-12-1971	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	70-1956 12-1959 -8-1947 63-1955 82-1963	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	73-1984 19-1987 -7-1947 48-1992 50-1962	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	69-1907 20-1979 0-1912 47-1965 61-1988	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	77-1965 15-1968 5-1912 49-1965 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	71-1923	44.0 max 24.0 min .06 ppt 31 hdd 0 cdd	69-1909	42.0 max 22.0 min .02 ppt 33 hdd 0 cdd	76-1990	44.0 max 22.0 min .01 ppt 32 hdd 0 cdd	80-1911	45.0 max 25.0 min .02 ppt 30 hdd 0 cdd	73-1960	47.0 max 25.0 min .02 ppt 29 hdd 0 cdd	47.0 max 25.0 min .02 ppt 29 hdd 0 cdd	48.0 max 27.0 min .05 ppt 27 hdd 0 cdd	75-1952
Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	71-1923 17-1970 -5-1988 46-1954 78-1987	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	69-1909 10-1977 0-1977 45-1990 57-1977	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	76-1990 13-1962 -5-1977 45-1960 30-1949	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	80-1911 21-1973 -6-1977 43-1960 17-1949	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	73-1960 11-1963 -12-1918 57-1960 42-1960	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	75-1907 23-1982 -12-191 51-1959 41-1951	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	75-1952 13-1979 -4-1916 51-1953 64-1961
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	69-1990	44.0 max 24.0 min .03 ppt 31 hdd 0 cdd	78-1938	44.0 max 25.0 min .04 ppt 30 hdd 0 cdd	73-1952	44.0 max 25.0 min .10 ppt 30 hdd 0 cdd	72-1951	43.0 max 25.0 min .08 ppt 31 hdd 0 cdd	75-1951	44.0 max 25.0 min .04 ppt 30 hdd 0 cdd	44.0 max 25.0 min .07 ppt 29 hdd 0 cdd	45.0 max 26.0 min .07 ppt 29 hdd 0 cdd	76-1967
Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	69-1990 18-1972 0-1905 53-1980 76-1949	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	78-1938 16-1977 1-1930 58-1990 66-1990	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	73-1952 11-1978 -3-1930 55-1973 45-1984	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	72-1951 13-1970 -14-1930 48-1972 88-1968	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	75-1951 14-1970 -5-1943 48-1954 185-1990	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	77-1986 15-1984 -3-1985 45-1973 61-1958	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	76-1967 16-1970 -1-1918 57-1957 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	78-1909	45.0 max 25.0 min .08 ppt 30 hdd 0 cdd	78-1909	50.0 max 26.0 min .02 ppt 27 hdd 0 cdd	79-1950	50.0 max 26.0 min .10 ppt 26 hdd 0 cdd	74-1952	46.0 max 26.0 min .06 ppt 28 hdd 0 cdd	71-1911	43.0 max 25.0 min .07 ppt 31 hdd 0 cdd	43.0 max 25.0 min .07 ppt 31 hdd 0 cdd	47.0 max 24.0 min .01 ppt 29 hdd 0 cdd	82-1909
Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	78-1909 16-1962 -15-1930 53-1965 53-1956	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	78-1909 12-1963 -8-1930 54-1967 1-42-1953	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	79-1950 20-1948 -4-1906 45-1950 21-1949	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	74-1952 18-1949 2-1940 49-1981 189-1989	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	71-1911 20-1957 7-1963 44-1952 62-1967	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	74-1914 21-1948 1-1963 52-1968 85-1968	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	82-1909 21-1972 3-1948 59-1968 69-1989
Normal 29	Actual	Normal 30	Actual	Normal 31	Actual	<b>JANUARY AVERAGES</b>							
47.0 max 25.0 min .08 ppt 29 hdd 0 cdd	76-1947	45.0 max 25.0 min .10 ppt 30 hdd 0 cdd	74-1931	46.0 max 25.0 min .11 ppt 29 hdd 0 cdd	76-1989	TEMPERATURE : 35.3°F							
Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	76-1947 14-1966 -2-1949 50-1982 99-1969	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	74-1931 15-1949 -6-1949 58-1987 1-73-1975	Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	76-1989 12-1985 -5-1979 43-1973 2-13-1983	PRECIPITATION : 1.57"							
						HEATING DEGREE DAYS : 912							
						COOLING DEGREE DAYS : 0							