

The Oklahoma Climatological Survey was established with its own budget and offices in the spring of 1980. The mission of the Survey is to provide a climatological archiving and information service to the State of Oklahoma. Although as many as 160 stations may appear in any one summary, it may not be possible to list every station report received at the Survey as we plan to have the summaries in the mail before the middle of each month. If you would like information about a station that does appear, please feel free to contact the Climate Survey. If you would like to know more about the services we offer or our plans for the future, please let us hear from you. You can help us by contributing to our newspaper clipping file. If you see an article in your local newspaper dealing with some impact of climate on your community, please clip it and send it to us along with the name of the newspaper and the date the article appeared.

OKLAHOMA CLIMATE SUMMARY DECEMBER 1986

Oklahoma received slightly less than its normal share of precipitation this December. Although the southeastern one-third of the State reported more rain than other areas, it still recorded only about half of its December average. Mean monthly temperatures were near normal over the entire State except in climate division 8 which reported a deviation of -1.7 degrees.

Oklahomans in the northwestern part of the State did not need to wait long for December's first snow. A strong upper level system produced a snow-generating surface low in the Enid area. Snowfall reports included 3 inches at Vici, 2.5 inches at Woodward and 2 inches at Gage. Since the ground in most areas was warmer than 32 degrees, most of the snow melted shortly after reaching the ground.

Another winter storm entered Oklahoma on the 7th. By the 8th, Texas County had received nearly 6 inches of snow, and Guymon reported an inch. The area also received freezing rain and ice pellets, and several minor vehicle accidents were reported. The front also delivered a steady, cold drizzle most of the day to the southwestern part of the state. By the time the front left the area, rainfall measurements included Duncan 1.4 inches, Comanche 1.22 inches, and Marlow .67 inches. These rains presented problems for peanut and cotton farmers in southern Oklahoma. Unharvested peanut plants began to decay forcing some farmers to abandon their crops. Some cotton which remained in the fields began to deteriorate and thus decline in market value. According to Stephens County OSU Extension Agent George Provence, the rain-weakened fibers could no

longer be sold for use in fine clothing and would thus demand a lesser price for use in rugs or upholstery. In addition, Provence noted that rain-soaked cotton bolls often fall from the plants and are passed over by the pickers, thereby producing an additional loss to farmers.

A few days of below normal temperatures followed the front. By the 13th, however, temperatures had recovered to near normal over most of the State. During the second half of the month, the northern two-thirds of the State received little or no precipitation. The southern one-third recorded slightly more, with totals typically being less than three-fourths of an inch. Much of this southern precipitation accompanied a front passing through the area on the 17th.

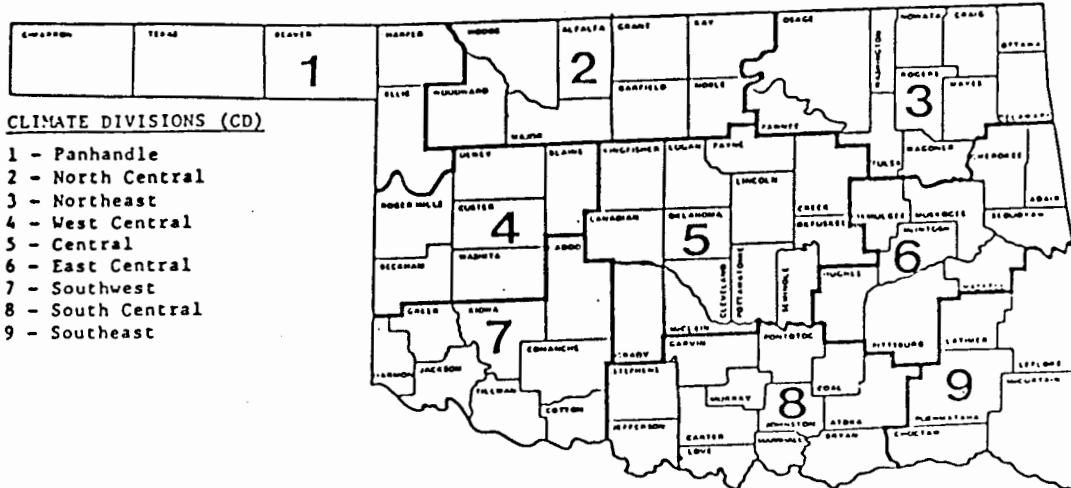
A most interesting snowfall occurred on the 28th in the Bethany area. The National Weather Service reported that moisture from a power plant in Mustang drifted over Bethany where it condensed and fell as snow. The Weather Service explained that a shallow layer of air saturated by the power plant steam was trapped near the ground by a higher layer of stable air. Over Bethany, where the temperatures were below freezing, the moisture in the lower air layer condensed into snow which precipitated and dusted the city.

TABLE OF 1985/1986 COMPARISONS

Station	December Temperatures (F)		December Precipitation (in.)	
	1985	1986	1985	1986
Goodwell	32.5	34.2	.010	.393
Lahoma	30.7	37.7	0.000	1.130
Mutual	32.4	37.8	.471	.660
Tulsa	34.3	40.1	1.794	.911
Elk City	34.1	39.5	.433	.854
Oklahoma City	35.1	41.1	.686	1.161
McAlester	36.2	41.8	1.962	1.353
Altus Irr. Sta.	38.0	43.4	.703	.550
Durant	39.1	44.1	.942	1.630
Ada	37.4	41.1	1.511	1.061
Tuskahoma	38.2	42.7	1.622	1.950

EXTREMES

Variable	Station	Division	Observation	Date
Minimum temperature (F)	Goodwell	1	0	11
Maximum temperature (F)	Guymon	1	66	30
	Cleveland	3	66	29
	Spavinaw Lake	3	66	1
	Hee Mt Tw	9	1.56"	8
Maximum 24-hour precipitation				



EXPLANATION OF TABLES

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

Station Name:

Station Identification Number: These are usually assigned by the National Climatic Data Center.

Climate Division: See the figure above.

Number of Temperature Observations: These are the actual number of temperature reports recorded at the station during the current month. Missing observations may result in artificially high or low mean monthly temperatures.

Deviation from Normal: The deviation of the observed mean monthly temperature from the monthly station normal. A positive value indicates the month was warmer than normal. A negative value indicates the month was cooler than normal. Normal monthly temperatures may be calculated by subtracting the deviation from the observed temperature.

Maximum Daily Maximum: The maximum daily maximum temperature observed during the current month and year and the day which it occurred.

Minimum Daily Minimum: The minimum daily minimum temperature observed during the current month and year and the day which it occurred.

Heating Degree Days: HDD are calculated each day of the month for which there is a temperature report and summed. They are a qualitative measure of how much heat was required to maintain an indoor temperature of 65 degrees. Missing observations may result in an artificially high or low value. For February 1984 HDD would be calculated as:

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

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

Cooling Degree Days: CDD are calculated each day of the month for which there is a temperature report and summed. They are a proxy measure of how much cooling was required to maintain an indoor temperature of 65 degrees. 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.

EXPLANATION OF MAPS

To give a Statewide perspective, a series of maps is produced each month from the information contained in the station tables. Each map is calculated using between 50 and 200 observations. Only stations with complete monthly records are used. Each observation is put into one of three categories and assigned a plus (+), minus (-), or a dot (.). The minus is the lowest numeric category, the dot is the middle and the plus the highest numeric category. If a map location has no report, a value is estimated. Each map is accompanied by its own legend. The categories will vary from month to month throughout the year. The categories for the deviations from normal maps will always remain constant. This is to facilitate comparisons between months and across years.

DECEMBER 1986 SUMMARY FOR NORTHEAST DIVISION (CD3)

NAME	ID	DIV	DEV							HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV		24-HR DAY
			MEAN TEMP	NUM OBS	FROM NORM	MAX TEMP	MIN DAY	TEMP DAY	DAY							FROM NORM	MAX	
BARNSDALL	535	3	38.2	31	999.0	56.	13	18.	11	830.0	9999.0	0.0	9999.0	1.582	31	-.04	.94	6
BIXBY	782	3	39.7	30	-5	57.	13	22.	11	757.5	-8.5	0.0	0.0	1.170	31	-.66	.75	9
CHELSEA	1717	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.021	31	99.99	.43	8
CLARENORE	1828	3	38.2	30	-8	55.	13	19.	11	805.0	-1.0	0.0	0.0	1.071	31	-.78	.38	9
CLEVELAND	1902	3	40.6	27	999.0	66.	29	20.	11	657.5	9999.0	0.0	9999.0	1.220	27	99.99	.90	7
FORAKER	3250	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.580	31	.24	1.22	7
HOLLOW	4258	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.091	31	-.80	.34	8
HOMINY	4289	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.410	31	.13	.68	7
HULAH DAM	4393	3	36.6	16	-.6	58.	14	12.	11	455.0	-407.0	0.0	0.0	0.000	31	-1.29	0.00	31
JAY TOWER	4567	3	41.4	28	999.0	61.	1	18.	11	660.5	9999.0	0.0	9999.0	.970	31	99.99	.42	9
KANSAS	4672	3	39.5	31	999.0	58.	1	18.	11	789.0	9999.0	0.0	9999.0	.962	31	99.99	.43	9
KEYSTONE DAM	4812	3	38.3	16	999.0	57.	6	15.	11	427.5	9999.0	0.0	9999.0	1.200	21	99.99	.50	7
LENAPAH	5118	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.020	31	99.99	.52	7
PAWNEE	5522	3	40.2	28	999.0	59.	25	18.	11	694.0	9999.0	0.0	9999.0	1.711	31	99.99	.82	7
MARAMEC	5540	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.981	31	-.25	.91	7
MIAMI	5855	3	35.9	30	-3.3	58.	13	15.	10	872.0	72.0	0.0	0.0	1.030	31	-1.12	.51	6
NOWATA	6485	3	39.0	31	.0	55.	20	20.	11	804.5	-1.5	0.0	0.0	1.130	31	-.67	.68	8
ONETA	6713	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.061	31	99.99	.42	9
PAWUSKA	6937	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.430	31	99.99	.92	7
PAWNEE	6940	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.040	31	-.21	.55	7
PRYOR	7309	3	38.2	30	-1.2	58.	3	18.	12	802.5	8.5	0.0	0.0	.881	31	-1.16	.33	9
QUAPAW	7358	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.493	31	-1.52	.49	8
RALSTON	7390	3	39.9	31	999.0	58.	20	20.	11	777.0	9999.0	0.0	9999.0	1.390	31	.03	.90	7
RAMONA	7394	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.200	31	99.99	.70	7
SKIATOOK	8258	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.340	31	-.11	.80	7
SPAVINAW	8380	3	40.6	31	999.0	63.	1	18.	11	757.0	9999.0	0.0	9999.0	.963	31	-1.07	.43	9
STILWELL	8506	3	40.1	31	999.0	58.	1	18.	11	771.5	9999.0	0.0	9999.0	.852	31	-1.86	.31	8
SPAVINAW LAKE	8382	3	41.4	30	999.0	66.	1	18.	12	709.0	9999.0	0.0	9999.0	.962	30	99.99	.43	9
TULSA	8992	3	40.1	31	.3	57.	13	22.	11	772.5	-8.5	0.0	0.0	.911	31	-.91	.35	7
UPPER SPAVINAW	9101	3	42.8	27	999.0	60.	12	23.	12	599.0	9999.0	0.0	9999.0	1.002	31	99.99	.51	9
VINITA	9203	3	38.7	31	-.2	56.	14	18.	11	815.0	6.0	0.0	0.0	.930	31	-1.21	.75	9
WAGONER	9247	3	40.9	31	-.5	56.	13	19.	11	747.5	15.5	0.0	0.0	1.121	31	-.94	.41	9
WANN	9298	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.930	31	99.99	.67	7
WYNONA	9792	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.651	31	99.99	1.10	7

Note: 9999.0, 999.0, 99.99 indicate missing records.

Trace = .001

DECEMBER 1986 SUMMARY FOR WEST CENTRAL DIVISION (CD4)

NAME	ID	DIV	DEV				HEAT		DEV		COOL		DEV		TOT PPT	NUM OBS	FROM NORM	MAX 24-HR	DAY
			MEAN TEMP	NUM OBS	FROM NORM	MAX TEMP	DEG DAY	FROM NORM	DEG DAY	FROM NORM	DEG DAY	FROM NORM							
CLINTON	1909	4	42.2	31	2.3	59.	30	22.	30	707.0	-71.0	0.0	0.0	.840	31	-.07	.53	9	
COLONY	2039	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.360	31	99.99	.92	9	
CORDELL	2125	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.800	31	-.11	.49	9	
ELK CITY	2849	4	39.5	31	999.0	57.	29	20.	30	791.0	9999.0	0.0	9999.0	.854	31	.14	.43	9	
ERICK	2944	4	40.6	31	.3	59.	29	22.	30	755.0	-11.0	0.0	0.0	.562	31	-.12	.30	9	
GEARY	3497	4	39.6	29	-.6	55.	5	23.	27	738.0	-31.0	0.0	0.0	.900	30	-.12	.90	9	
HAMMON	3871	4	39.3	30	.3	59.	26	21.	10	771.0	-35.0	0.0	0.0	.450	31	-.26	.40	9	
LEEDY	5090	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	0.000	31	-.69	0.00	31	
MORAVIA	6035	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.570	31	-.23	.37	9	
OKEENE	6629	4	40.3	31	.0	56.	5	23.	30	765.5	-.5	0.0	0.0	.610	31	-.25	.40	9	
RETROP	7565	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.720	31	99.99	.51	9	
REYDON	7579	4	40.1	28	999.0	59.	30	19.	10	698.0	9999.0	0.0	9999.0	.521	28	-.10	.29	7	
SAYRE	7952	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.250	31	-.35	.14	8	
SWEETWATER	8652	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.770	31	99.99	.47	7	
TALOGA	8708	4	39.0	31	.3	59.	1	19.	30	806.0	-9.0	0.0	0.0	.820	31	.19	.32	9	
VICI	9172	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.240	31	99.99	.73	7	
WATONCA	9364	4	39.7	31	999.0	55.	30	23.	30	783.5	9999.0	0.0	9999.0	.624	31	-.38	.33	9	
WEATHERFORD	9422	4	40.0	30	-.3	57.	30	22.	30	751.5	-17.5	0.0	0.0	.641	31	-.22	.39	9	

Note: 9999.0, 999.0, 99.99 indicate missing records.

Trace = .001

DECEMBER 1936 SUMMARY FOR CENTRAL DIVISION (CD5)

NAME	ID	DIV	DEV						HEAT		DEV		COOL		DEV		TUT	NUM	FROM	MAX	24-HR	DAY
			MEAN	NUM	FROM	MAX	MIN	DAY	TEMP	TEMP	DEG	FROM	DEG	FROM	PPT	OBS						
AMBER	200	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.980	31	99.99	.51	7				
ARCADIA	288	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.230	31	99.99	.54	7				
TINKER AFB	325	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.251	31	99.99	.65	7				
BLANCHARD	830	5	41.6	31	999.0	58.	31	24.	11	726.5	9999.0	0.0	9999.0	.962	31	99.99	.88	7				
CHANDLER	1684	5	40.5	31	-1.0	57.	12	21.	12	758.0	29.0	0.0	0.0	1.221	31	-1.17	.58	6				
BRISTOW	1144	5	40.6	31	-2	58.	13	19.	11	756.0	6.0	0.0	0.0	1.430	31	-1.16	.78	6				
CHICKASHA RES.	1750	5	42.0	30	.4	58.	31	23.	30	691.0	-34.0	0.0	0.0	1.200	31	.12	.58	8				
COX CITY	2196	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.030	31	99.99	.96	6				
CRESCENT	2242	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.590	31	99.99	.55	7				
CUSHING	2318	5	39.6	28	.1	57.	20	23.	10	710.5	-80.5	0.0	0.0	.930	31	-1.38	.75	7				
EL RENO	2818	5	39.6	31	-5	57.	20	22.	11	787.5	15.5	0.0	0.0	.661	31	-1.37	.32	9				
GUTHRIE	3021	5	41.3	31	1.3	58.	5	21.	11	734.5	-40.5	0.0	0.0	1.720	31	.52	.70	9				
HENNESSEY	4055	5	39.9	31	.6	55.	5	25.	27	779.0	-18.0	0.0	0.0	.880	31	-1.11	.42	7				
INGALLS	4489	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.401	31	99.99	.97	7				
KINGFISHER	4861	5	40.1	31	.2	59.	1	23.	30	771.0	-7.0	0.0	0.0	.800	31	-1.33	.45	9				
GFISHER CREEK	4862	5	40.5	30	999.0	56.	28	23.	30	736.5	9999.0	0.0	9999.0	.800	31	99.99	.45	9				
KINGFISHER	4864	5	40.5	30	999.0	56.	28	23.	30	736.5	9999.0	0.0	9999.0	.770	31	99.99	.45	9				
KONAWA	4915	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.062	31	-1.80	.31	7				
MARSHALL	5589	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.680	31	-1.46	.56	7				
MEEKER	5779	5	40.9	31	.1	58.	1	21.	30	748.5	-1.5	0.0	0.0	.830	31	-1.60	.48	7				
MULHALL	6110	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.140	31	99.99	.68	7				
NORMAN	6386	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.182	31	-1.17	.81	7				
OILTON	6616	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.350	31	99.99	.61	7				
OKEMAH	6638	5	40.4	29	-1.6	58.	1	23.	11	713.0	0.0	0.0	0.0	1.141	31	-1.69	.48	9				
OKLAHOMA CITY	6661	5	41.1	31	1.2	59.	13	24.	11	742.0	-36.0	0.0	0.0	1.161	31	-1.04	.56	7				
PERKINS	7003	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.230	31	-1.12	.72	7				
FURCELL	7327	5	40.5	31	-5	57.	31	22.	31	758.0	14.0	0.0	0.0	2.010	31	.55	1.08	7				
PRASUE	7264	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.922	31	-1.63	.50	9				
PIEDMONT	7068	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.711	31	99.99	.41	9				
SEMINOLE	8042	5	42.6	31	-4	59.	30	24.	30	693.5	11.5	0.0	0.0	1.350	31	-1.43	.63	9				
SHAWNEE	8110	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.592	31	.06	.87	7				
STELLA	8479	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.120	31	99.99	.60	7				
STILLWATER	8501	5	38.6	30	-1.2	56.	20	20.	30	793.0	12.0	0.0	0.0	1.440	31	.22	.51	6				
STROUD	8563	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.550	31	99.99	.74	7				
TECUMSEH	8751	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.283	31	99.99	.48	7				
THOMAS	8815	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.730	31	99.99	.40	9				
TROUSEDALE	8960	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.070	31	99.99	.57	7				
UNION CITY	9086	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.712	31	-1.63	.38	7				
WELTY	9479	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.060	31	99.99	.50	9				
WENOKA	9575	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.830	31	-1.95	.32	7				

Note: 9999.0, 999.0, 99.99 indicate missing records.
Trace = .001

DECEMBER 1936 SUMMARY FOR EAST CENTRAL DIVISION (CD6)

NAME	ID	DIV	DEV			HEAT			COOL			DEV			TOT PPT	NUM OBS	FROM NORM	MAX 24-HR DAY
			MEAN TEMP	NUM OBS	FROM NORM	MAX TEMP	DEG DAY	FROM NORM	MIN DAY	DEG DAY	FROM NORM	DEG DAY	FROM NORM					
MCALLESTER	5664	6	41.8	31	-2	57.	6	23.	11	720.5	7.5	0.0	0.0	1.353	31	-1.03	.99	8
ASHLAND	364	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.111	31	99.99	.68	8
BEGGS	631	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.500	31	99.99	.69	7
BOYTON	1027	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.181	31	99.99	.42	9
CALVIN	1391	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.625	31	-1.34	.25	7
CHECOTAH	1711	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.030	31	-1.00	.51	8
DEWAR	2485	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.990	31	-.80	.45	9
DUSTIN	2690	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.000	31	99.99	.35	8
EUFULA	2993	6	42.3	31	999.0	58.	13	25.	11	702.5	9999.0	0.0	9999.0	.980	31	-1.46	.47	8
HANNA	3884	6	41.2	31	999.0	58.	5	21.	11	737.5	9999.0	0.0	9999.0	.890	31	-1.21	.35	8
HARTSHORNE	3946	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.172	31	99.99	.64	8
HASKELL	3956	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.431	31	-.54	.65	7
HOLDENVILLE	4235	6	41.4	31	-1.5	58.	29	23.	31	733.0	48.0	0.0	0.0	.941	31	-.89	.37	8
LYONS	5437	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.100	31	-2.21	.10	7
MCCURTAIN	5693	6	43.0	31	999.0	62.	1	19.	11	681.5	9999.0	0.0	9999.0	1.523	31	-1.12	1.10	8
MUSKOGEE	6130	6	41.0	31	-.7	59.	1	19.	11	743.0	21.0	0.0	0.0	1.330	31	-.91	.71	7
OKMULGEE WATER WORK	6670	6	39.8	30	-2.1	58.	12	18.	11	755.5	39.5	0.0	0.0	.960	31	-1.09	.57	7
OKTAHA	6678	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.845	31	99.99	.36	8
SALLISAW	7862	6	41.4	31	-.8	57.	21	20.	11	731.5	24.5	0.0	0.0	1.350	31	-1.12	.90	8
SCIPID	7979	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.740	31	99.99	.62	8
QUINTON	7372	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.671	31	-.69	1.16	6
SCRAPER	7993	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.930	31	99.99	.36	8
SHORT	8170	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.271	31	99.99	.83	8
TAHLEQUAH	8677	6	40.4	31	-.4	57.	17	16.	11	762.5	12.5	0.0	0.0	.831	31	-1.63	.34	8
WEBBERS FALLS	9445	6	40.7	30	.3	59.	13	21.	11	729.5	-33.5	0.0	0.0	.930	31	-1.36	.45	8
WESTVILLE	9523	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.990	31	99.99	.35	9
WETUMKA	9571	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.086	31	-.80	.38	8

Note: 9999.0, 999.0, 99.99 indicate missing records.

Trace = .001

DECEMBER 1986 SUMMARY FOR SOUTHWEST DIVISION (CD7)

NAME	ID	DIV	DEV			MIN	DAY	TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	FROM NORM	MAX	24-HR DAY
			MEAN TEMP	NUM OBS	FROM NORM													
ALTUS IRR STA	179	7	43.4	31	.6	61.	2	23.	30	671.0	-17.0	0.0	0.0	.550	31	-.32	.18	7
ALTUS DAM	184	7	42.0	30	999.0	59.	2	25.	31	689.5	9999.0	0.0	9999.0	.950	31	.10	.42	9
ANADARKO	224	7	41.0	27	-.2	57.	29	19.	27	648.5	-89.5	0.0	0.0	.520	28	-.67	.23	9
ALTUS AFB	447	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.410	31	99.99	.21	7
CARNEGIE	1504	7	40.9	31	-.2	59.	30	20.	30	748.0	7.0	0.0	0.0	.403	31	-.66	.40	9
CHATTANOOGA	1706	7	42.7	31	.3	59.	29	27.	31	692.5	-8.5	0.0	0.0	1.040	31	-.04	.71	8
DUNCAN	2668	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.561	31	99.99	.67	7
FLETCHER	3191	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.700	31	99.99	.52	7
FREDERICK	3353	7	41.0	30	-2.0	60.	29	23.	12	695.5	38.5	0.0	0.0	1.111	31	.09	.55	7
GRANDFIELD	3709	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.070	31	-.38	.43	8
HOBART	4204	7	41.5	31	1.6	60.	2	25.	27	729.0	-49.0	0.0	0.0	.462	31	-.35	.35	7
HOLLIS	4249	7	41.1	28	-1.1	63.	2	22.	30	669.5	-37.5	0.0	0.0	.020	28	.09	.69	18
LAWTON	5063	7	41.0	30	-.4	59.	28	26.	29	695.5	-11.5	0.0	0.0	.052	29	-.37	.51	6
FT SILL	5068	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.221	31	.00	.47	7
LOCO	5247	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.860	31	99.99	.90	7
LOOKABA	5329	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.690	31	99.99	.43	9
MANGUM RS ST	5509	7	41.2	31	-.7	61.	2	24.	30	736.5	20.5	0.0	0.0	.000	31	.12	.40	9
ROOSEVELT	7727	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.780	31	-.19	.44	7
SEDAN	8016	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.200	31	99.99	.18	7
SNYDER	8299	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.930	19	-.09	.64	7
TUSSY	9032	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.940	31	99.99	.96	7
VINSON	9212	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.600	31	-.18	.34	9
WALTERS	9278	7	43.0	31	-.5	59.	30	26.	30	682.5	15.5	0.0	0.0	1.390	31	-.03	.54	8
WICHITA MT REF	9629	7	39.6	30	-1.6	59.	29	18.	31	761.0	23.0	0.0	0.0	1.730	31	.61	1.43	8
WILLOW	9668	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.781	31	99.99	.47	9

DECEMBER 1986 SUMMARY FOR SOUTH CENTRAL DIVISION (CD8)

NAME	ID	DIV	DEV			MIN	DAY	TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	FROM NORM	MAX	24-HR DAY
			MEAN TEMP	NUM OBS	FROM NORM													
ADA	17	8	41.1	31	-2.4	57.	6	23.	12	740.5	73.5	0.0	0.0	1.061	31	-.00	.40	9
ALLEN	147	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.700	31	99.99	.45	8
ARDMORE	292	8	43.4	31	-2.0	59.	6	28.	31	670.5	87.5	0.0	0.0	1.840	31	.13	1.14	7
ATOKA DAM	394	8	42.0	30	999.0	58.	12	27.	11	666.5	9999.0	0.0	9999.0	2.063	31	99.99	1.41	8
BOKCHITO	917	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.850	31	99.99	.77	8
CANEY	1437	8	42.7	19	999.0	56.	5	30.	13	424.0	9999.0	0.0	9999.0	2.160	21	99.99	.07	8
CHICKASAW NRA	1745	8	41.0	30	999.0	57.	29	21.	30	721.5	9999.0	0.0	9999.0	1.681	31	99.99	.53	8
COLEMAN	2011	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.520	31	99.99	.55	8
COMANCHE	2054	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.852	31	99.99	.02	7
DAISY	2354	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.215	31	-.44	1.36	8
DURANT USDA	2678	8	44.1	30	999.0	60.	12	26.	30	628.0	9999.0	0.0	9999.0	1.630	31	-.55	.60	8
ELMORE CITY	2872	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.152	31	99.99	.60	7
FARRIS	3083	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.660	31	99.99	.64	8
HENNEPIN	4052	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.480	31	99.99	.70	6
GRADY	3688	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.600	31	99.99	.01	8
HEALDTON	4001	8	42.3	27	999.0	60.	6	22.	31	613.5	9999.0	0.0	9999.0	2.261	31	.65	.06	7
KINGSTON	4865	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.500	31	.49	.67	8
LEHIGH	5100	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.202	31	99.99	.05	8
LINDSAY	5220	8	40.0	31	999.0	58.	6	24.	30	750.5	9999.0	0.0	9999.0	0.000	31	99.99	0.00	31
MADILL	5468	8	43.0	31	-1.0	58.	5	22.	20	600.5	54.5	0.0	0.0	1.711	31	-.26	.66	7
MARIETTA	5563	8	43.9	31	-.9	60.	6	26.	30	654.0	28.0	0.0	0.0	1.570	31	-.13	.47	7
MARLOW	5581	8	42.0	31	999.0	59.	31	22.	30	712.5	9999.0	0.0	9999.0	1.490	31	.13	.68	7
PAULS VALLEY	6926	8	41.5	31	-1.3	58.	6	22.	31	727.0	39.0	0.0	0.0	1.593	31	-.12	.56	9
PONTOTOC	7214	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.252	31	-.62	1.25	7
TISHOMINGO	8884	8	42.0	16	999.0	58.	28	23.	31	355.0	9999.0	0.0	9999.0	2.310	31	.23	1.11	8
MAURIKA	9395	8	43.5	31	-1.1	62.	31	25.	30	667.5	35.5	0.0	0.0	1.230	31	-.25	.71	7

Note: 9999.0, 999.0, 99.99 indicate missing records. Trace = .001

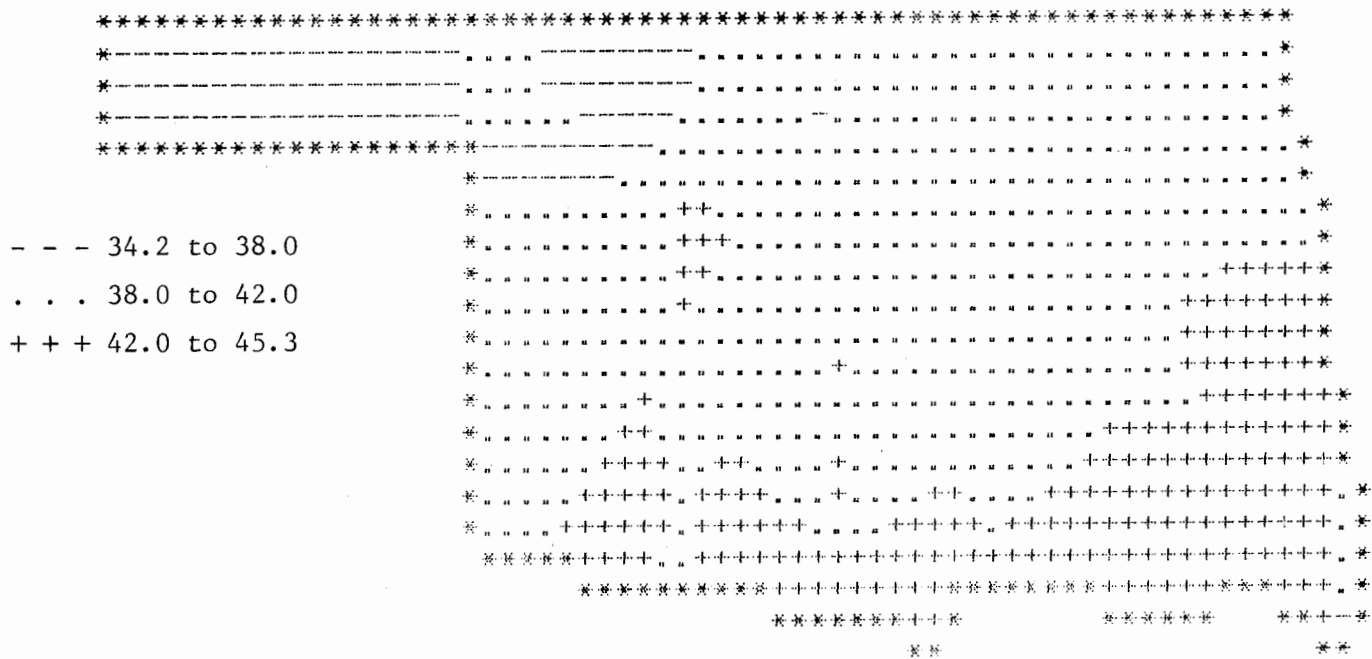
DECEMBER 1986 SUMMARY FOR SOUTHEAST DIVISION (CD9)

NAME	ID	DIV	DEV						HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV			
			MEAN TEMP	NUM OBS	FROM NORM	MAX TEMP	MIN DAY	MAX DAY							FROM NORM	MAX 24-HR		
ANTLERS	256	9	45.3	31	1.6	59.	25	32.	30	612.0	-48.0	0.0	0.0	.790	31	-2.23	.67	7
BATTIEST	567	9	42.8	30	999.0	64.	1	22.	11	664.5	9999.0	0.0	9999.0	2.191	31	99.99	1.04	7
BENGAL	670	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.010	31	99.99	.92	9
BOSWELL	980	9	43.7	31	999.0	58.	25	25.	30	660.0	9999.0	0.0	9999.0	1.832	31	-.81	.40	18
BROKEN BOW	1162	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.520	31	-1.30	1.00	7
BROKEN BOW DAM	1168	9	43.0	30	999.0	64.	24	26.	12	635.5	9999.0	0.0	9999.0	2.240	31	99.99	.79	8
BUFFALO MT TW	1251	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.440	31	99.99	.87	9
CARNASAW TOWER	1499	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.170	31	-1.73	.85	8
CARTER MT	1544	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.440	31	-1.47	.89	9
FANSHAW	3065	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.210	31	-1.73	.85	8
HEAVENER	4008	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.412	31	-1.81	.77	8
HEE MT TW	4017	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.651	26	99.99	1.56	8
HUGO	4284	9	44.1	31	999.0	58.	24	25.	11	648.5	9999.0	0.0	9999.0	1.990	31	99.99	.72	17
IDABEL	4451	9	43.3	30	-1.7	59.	25	26.	12	650.0	30.0	0.0	0.0	2.571	31	-.90	.72	18
JADIE TOWER	4560	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.511	31	99.99	.80	19
POTEAU	7254	9	40.7	30	999.0	60.	12	20.	10	730.5	9999.0	0.0	9999.0	2.672	31	99.99	1.04	7
SMITHVILLE	8285	9	42.8	26	999.0	60.	1	21.	11	577.0	9999.0	0.0	9999.0	2.720	26	99.99	1.45	8
SPIRO	8416	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.030	31	-.76	1.32	8
TUSKAHOMA	9023	9	42.7	31	999.0	62.	1	20.	30	692.5	9999.0	0.0	9999.0	1.950	31	99.99	.98	8
VALLIANT	9118	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.450	31	-1.15	.70	18
WILBURTON	9634	9	41.2	31	-1.7	58.	25	20.	12	737.5	52.5	0.0	0.0	1.833	31	-1.04	1.03	7
WISTER DAM	9719	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.040	8	99.99	.04	19
ZOE	9985	9	40.6	28	999.0	65.	2	19.	11	683.0	9999.0	0.0	9999.0	1.720	29	-1.69	.48	10

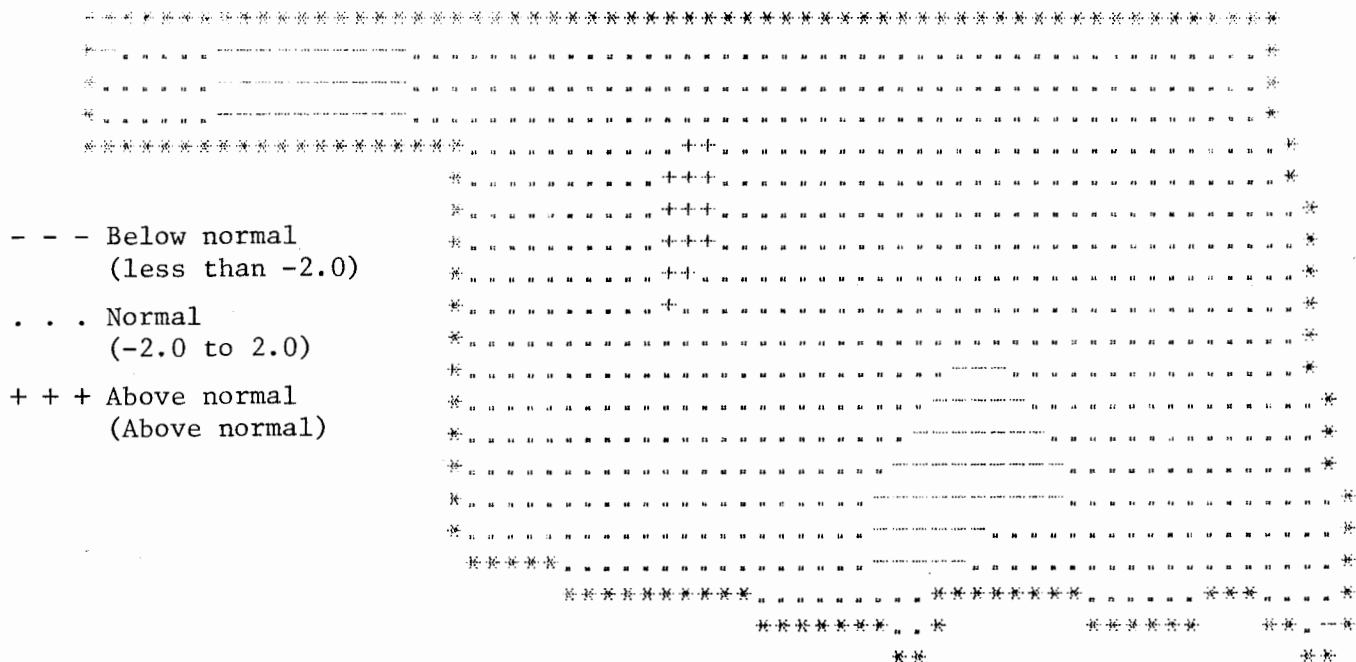
DECEMBER 1986 CLIMATE DIVISION SUMMARY

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 TEMP	MIN DAY	MAX DAY	FROM NORM	MAX 24-HR								
1	36.3	10	-.7	66.0	30	0.0	11	876.3	6.3	0.0	0.0	.67	13	.18	1.20	7
2	38.6	16	.3	61.0	12	15.0	30	807.4	-19.6	0.0	0.0	1.07	26	-.11	1.15	7
3	39.8	18	.4	66.0	1	12.0	11	756.7	-38.4	0.0	0.0	1.09	33	-.66	1.22	7
4	40.0	10	.2	59.0	1	19.0	30	756.7	-24.6	0.0	0.0	.70	18	-.09	.92	9
5	40.6	17	-.1	59.0	30	19.0	11	743.2	-11.4	0.0	0.0	1.13	40	-.26	1.08	7
6	41.3	10	-.4	62.0	1	16.0	11	729.7	7.4	0.0	0.0	1.07	27	-1.13	1.16	6
7	41.7	12	-.4	63.0	2	18.0	31	701.6	-11.0	0.0	0.0	.93	24	-.09	1.43	8
8	42.4	12	-2.0	62.0	31	21.0	30	686.0	49.0	0.0	0.0	1.58	25	-.29	1.41	8
9	42.8	10	-1.0	65.0	2	19.0	11	671.4	16.4	0.0	0.0	1.86	22	-1.44	1.56	8

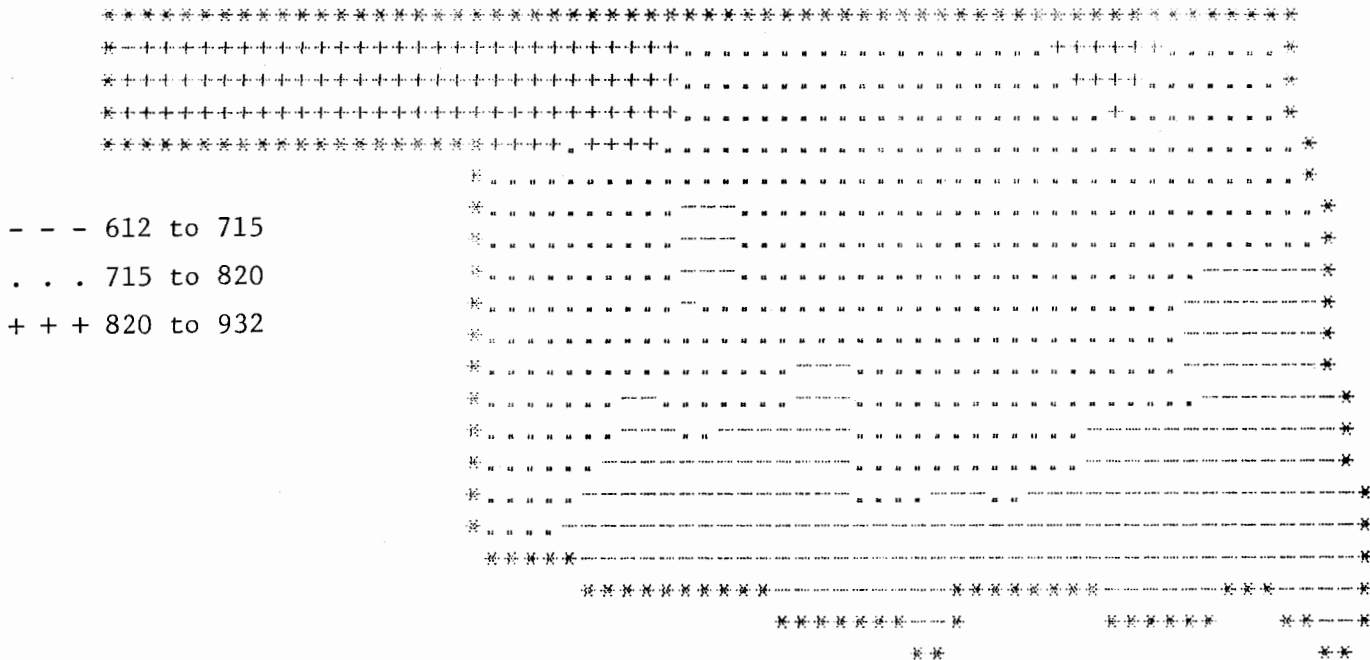
Note: 9999.0, 999.0, 99.99 indicate missing records.
Trace = .001



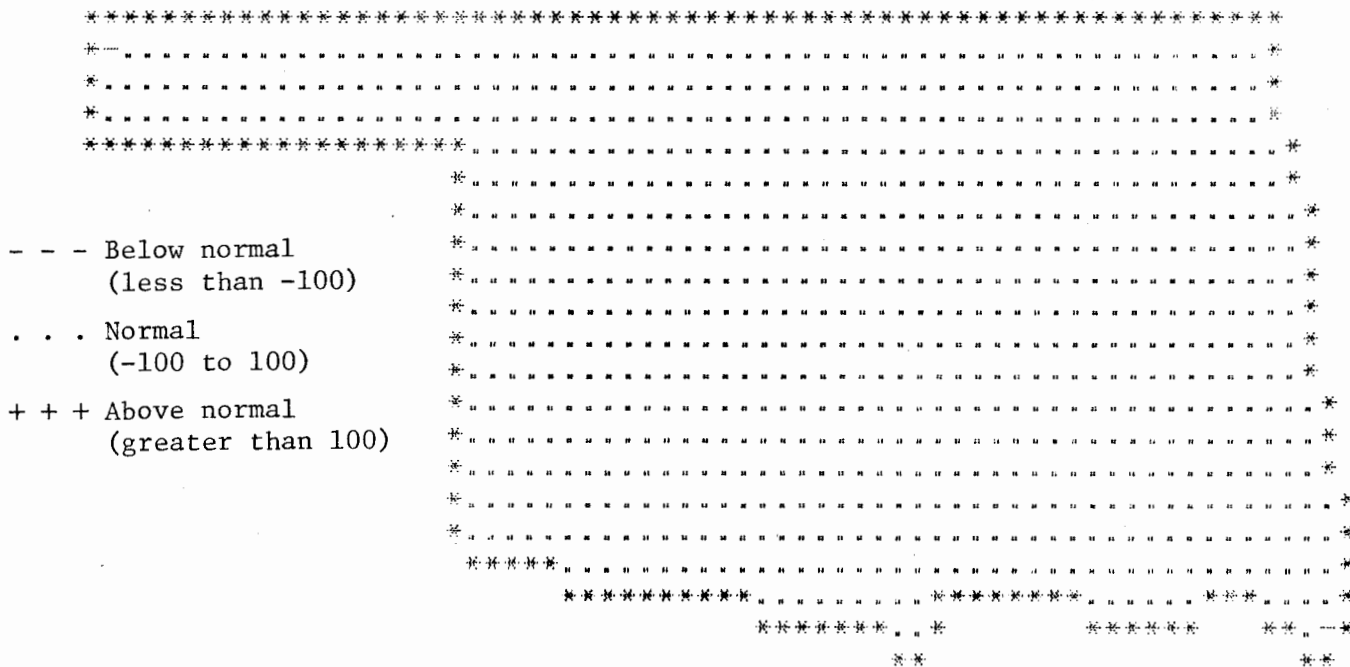
DECEMBER 1986 AVERAGE MONTHLY TEMPERATURE
(DEGREES F)



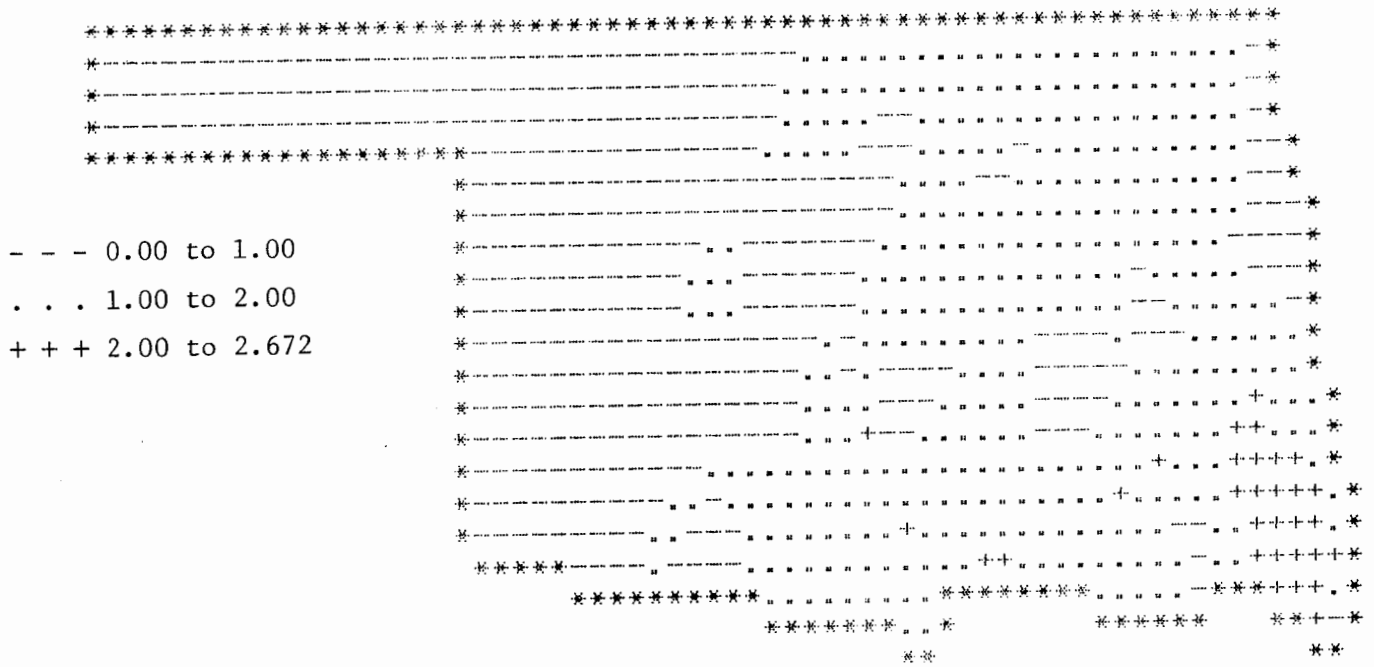
DECEMBER 1986 DEVIATION FROM NORMAL TEMPERATURES



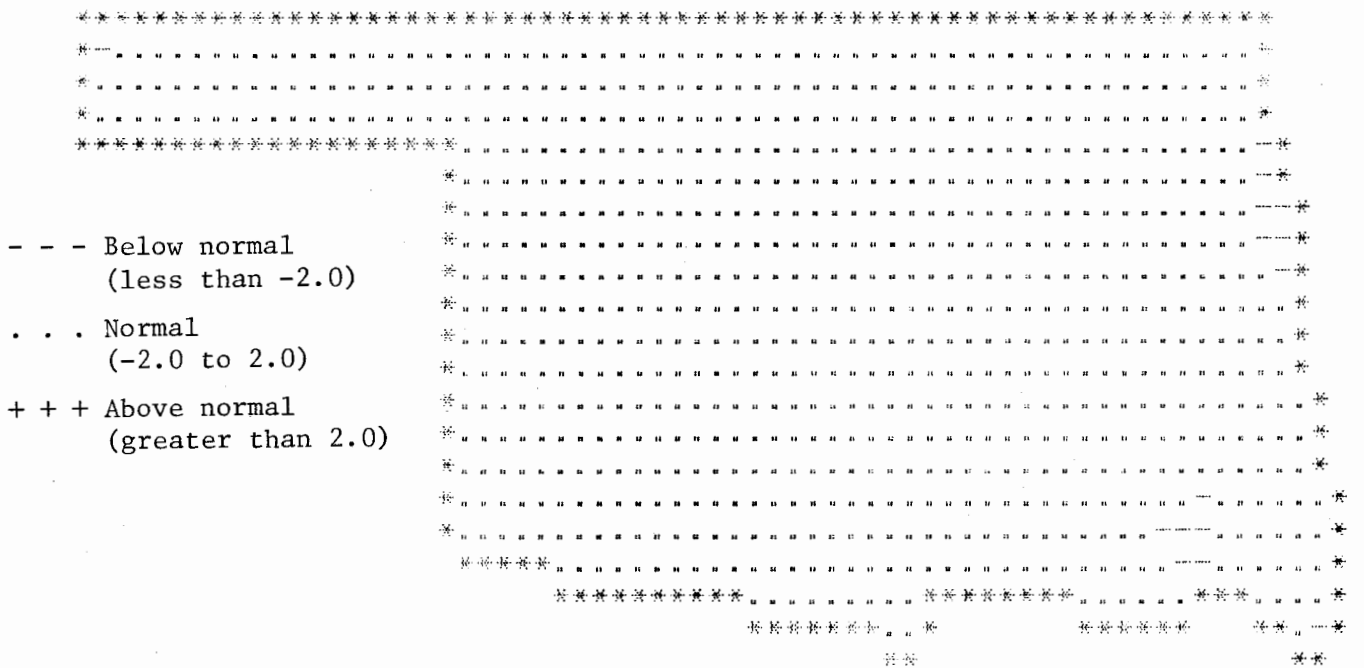
DECEMBER 1986 TOTAL HEATING DEGREE DAYS



DECEMBER 1986 DEVIATION FROM NORMAL HEATING DEGREE DAYS



DECEMBER 1986 TOTAL PRECIPITATION
(INCHES)



DECEMBER 1986 DEVIATION FROM NORMAL PRECIPITATION

FEBRUARY 1987 CLIMATE CALENDAR

The data on this calendar are for Oklahoma City.
Normal values are calculated for the period
1950-1979. Extremes are found for the period
of record (1924-present).

1		2		3		4		5		6		7	
Normal	48.8	Normal	46.8	Normal	49.4	Normal	53.5	Normal	51.3	Normal	47.2	Normal	47.7
max	28.1	max	26.0	max	26.8	max	29.3	max	30.2	max	28.1	max	25.4
min	-.024	min	-.012	min	.075	min	.084	min	.064	min	.025	min	.037
pcpn	26	pcpn	28	pcpn	27	pcpn	23	pcpn	24	pcpn	27	pcpn	28
HDD	0	HDD	0	HDD	0	HDD	0	HDD	0	HDD	0	HDD	0
CDD	74-1986	CDD	75-1934	CDD	78-1934	CDD	77-1962	CDD	77-1948	CDD	72-1931	CDD	76-1932
Highest Max	Lowest Max	Highest Max	Lowest Max	Highest Max	Lowest Max	Highest Max	Lowest Max	Highest Max	Lowest Max	Highest Max	Lowest Max	Highest Max	Lowest Max
16-1985	24-1985	16-1985	24-1985	19-1982	19-1982	19-1982	19-1982	16-1982	16-1982	16-1982	25-1975	6-1933	6-1933
Lowest Min	Lowest Min	Lowest Min	Lowest Min	Lowest Min	Lowest Min	Lowest Min	Lowest Min	Lowest Min	Lowest Min	Lowest Min	Lowest Min	Lowest Min	Lowest Min
-1-1951	3-1951	8-1972	8-1972	4-1936	4-1936	4-1936	4-1936	6-1933	6-1933	6-1933	6-1933	6-1933	6-1933
Highest Min	Highest Min	Highest Min	Highest Min	Highest Min	Highest Min	Highest Min	Highest Min	Highest Min	Highest Min	Highest Min	Highest Min	Highest Min	Highest Min
59-1986	58-1986	58-1986	58-1986	58-1927	58-1927	58-1927	58-1927	57-1938	57-1938	57-1938	54-1931	47-1931	47-1931
Greatest pcpn	Greatest pcpn	Greatest pcpn	Greatest pcpn	Greatest pcpn	Greatest pcpn	Greatest pcpn	Greatest pcpn	Greatest pcpn	Greatest pcpn	Greatest pcpn	Greatest pcpn	Greatest pcpn	Greatest pcpn
1.88-1983	.88-1943	.88-1943	.88-1943	1.13-1960	1.13-1960	1.32-1964	1.32-1964	.75-1958	.75-1958	.60-1979	.60-1979	.84-1980	.84-1980
8		9		10		11		12		13		14	
Normal	51.5	Normal	53.7	Normal	56.1	Normal	50.7	Normal	53.4	Normal	53.9	Normal	51.9
max	28.6	max	28.7	max	28.9	max	29.8	max	30.2	max	30.9	max	32.0
min	-.045	min	-.021	min	.031	min	.081	min	.094	min	.037	min	.069
pcpn	25	pcpn	24	pcpn	22	pcpn	25	pcpn	23	pcpn	22	pcpn	23
HDD	0	HDD	0	HDD	0	HDD	0	HDD	0	HDD	0	HDD	0
CDD	73-1938	CDD	84-1932	CDD	76-1954	CDD	82-1962	CDD	84-1962	CDD	82-1962	CDD	81-1954
Highest Max	Lowest Max	Highest Max	Lowest Max	Highest Max	Lowest Max	Highest Max	Lowest Max	Highest Max	Lowest Max	Highest Max	Lowest Max	Highest Max	Lowest Max
12-1929	17-1929	17-1929	17-1929	16-1933	16-1933	25-1972	25-1972	17-1948	17-1948	30-1933	30-1933	30-1933	21-1936
Lowest Min	Lowest Min	Lowest Min	Lowest Min	Lowest Min	Lowest Min	Lowest Min	Lowest Min	Lowest Min	Lowest Min	Lowest Min	Lowest Min	Lowest Min	Lowest Min
-5-1933	-3-1979	-3-1979	-3-1979	4-1929	4-1929	58-1930	58-1930	7-1986	7-1986	12-1936	12-1936	12-1936	1-1936
Highest Min	Highest Min	Highest Min	Highest Min	Highest Min	Highest Min	Highest Min	Highest Min	Highest Min	Highest Min	Highest Min	Highest Min	Highest Min	Highest Min
53-1966	51-1932	51-1932	51-1932	52-1932	52-1932	1.12-1977	1.12-1977	2.21-1978	2.21-1978	50-1926	50-1926	50-1926	54-1954
Greatest pcpn	Greatest pcpn	Greatest pcpn	Greatest pcpn	Greatest pcpn	Greatest pcpn	Greatest pcpn	Greatest pcpn	Greatest pcpn	Greatest pcpn	Greatest pcpn	Greatest pcpn	Greatest pcpn	Greatest pcpn
.62-1966	.24-1959	.24-1959	.24-1959	.50-1953	.50-1953	.88-1946	.88-1946	.46-1969	.46-1969	.46-1969	.46-1969	.89-1938	.89-1938
15		16		17		18		19		20		21	
Normal	50.2	Normal	50.8	Normal	53.0	Normal	52.7	Normal	51.2	Normal	53.3	Normal	49.2
max	29.9	max	28.5	max	29.0	max	30.7	max	30.0	max	30.3	max	28.6
min	-.047	min	-.023	min	.035	min	.044	min	.055	min	.063	min	.092
pcpn	25	pcpn	25	pcpn	24	pcpn	23	pcpn	24	pcpn	23	pcpn	26
HDD	0	HDD	0	HDD	0	HDD	0	HDD	0	HDD	0	HDD	0
CDD	81-1954	CDD	75-1959	CDD	78-1970	CDD	78-1986	CDD	83-1986	CDD	80-1976	CDD	84-1981
Highest Max	Lowest Max	Highest Max	Lowest Max	Highest Max	Lowest Max	Highest Max	Lowest Max	Highest Max	Lowest Max	Highest Max	Lowest Max	Highest Max	Lowest Max
25-1936	17-1979	17-1979	17-1979	17-1936	17-1936	24-1936	24-1936	21-1929	21-1929	26-1929	26-1929	28-1938	28-1938
Lowest Min	Lowest Min	Lowest Min	Lowest Min	Lowest Min	Lowest Min	Lowest Min	Lowest Min	Lowest Min	Lowest Min	Lowest Min	Lowest Min	Lowest Min	Lowest Min
9-1936	7-1979	7-1979	7-1979	8-1936	8-1936	-1-1978	-1-1978	8-1978	8-1978	12-1939	12-1939	9-1939	9-1939
Highest Min	Highest Min	Highest Min	Highest Min	Highest Min	Highest Min	Highest Min	Highest Min	Highest Min	Highest Min	Highest Min	Highest Min	Highest Min	Highest Min
53-1976	48-1976	48-1976	48-1976	50-1926	50-1926	53-1971	53-1971	48-1930	48-1930	51-1930	51-1930	54-1930	54-1930
Greatest pcpn	Greatest pcpn	Greatest pcpn	Greatest pcpn	Greatest pcpn	Greatest pcpn	Greatest pcpn	Greatest pcpn	Greatest pcpn	Greatest pcpn	Greatest pcpn	Greatest pcpn	Greatest pcpn	Greatest pcpn
.93-1938	2.16-1940	2.16-1940	2.16-1940	.88-1961	.88-1961	.88-1946	.88-1946	.68-1954	.68-1954	1.31-1985	1.31-1985	1.63-1971	1.63-1971
22		23		24		25		26		27		28	
Normal	51.6	Normal	52.9	Normal	52.8	Normal	57.0	Normal	57.9	Normal	58.7	Normal	57.3
max	29.5	max	31.1	max	30.1	max	32.8	max	32.2	max	33.0	max	34.0
min	-.047	min	-.010	min	-.049	min	.010	min	.011	min	.087	min	.020
pcpn	24	pcpn	23	pcpn	23	pcpn	20	pcpn	20	pcpn	19	pcpn	19
HDD	0	HDD	0	HDD	0	HDD	0	HDD	0	HDD	0	HDD	0
CDD	83-1982	CDD	80-1930	CDD	81-1956	CDD	82-1986	CDD	81-1976	CDD	81-1976	CDD	81-1972
Highest Max	Lowest Max	Highest Max	Lowest Max	Highest Max	Lowest Max	Highest Max	Lowest Max	Highest Max	Lowest Max	Highest Max	Lowest Max	Highest Max	Lowest Max
24-1968	31-1928	31-1928	31-1928	19-1960	19-1960	19-1960	19-1960	21-1934	21-1934	25-1962	25-1962	24-1962	24-1962
Lowest Min	Lowest Min	Lowest Min	Lowest Min	Lowest Min	Lowest Min	Lowest Min	Lowest Min	Lowest Min	Lowest Min	Lowest Min	Lowest Min	Lowest Min	Lowest Min
11-1963	11-1965	11-1965	11-1965	7-1965	7-1965	50-1951	50-1951	11-1934	11-1934	61-1981	61-1981	7-1962	7-1962
Highest Min	Highest Min	Highest Min	Highest Min	Highest Min	Highest Min	Highest Min	Highest Min	Highest Min	Highest Min	Highest Min	Highest Min	Highest Min	Highest Min
56-1949	51-1930	51-1930	51-1930	58-1930	58-1930	.94-1952	.94-1952	59-1981	59-1981	54-1930	54-1930	53-1932	53-1932
Greatest pcpn	Greatest pcpn	Greatest pcpn	Greatest pcpn	Greatest pcpn	Greatest pcpn	Greatest pcpn	Greatest pcpn	Greatest pcpn	Greatest pcpn	Greatest pcpn	Greatest pcpn	Greatest pcpn	Greatest pcpn
1.15-1985	.81-1985	.81-1985	.81-1985	.81-1985	.81-1985	.74-1936	.74-1936	.50-1945	.50-1945	1.32-1966	1.32-1966	.52-1927	.52-1927