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 1987

December weather featured two major, paralyzing winter storm systems, and record-breaking precipitation amounts. Several stations Statewide received three times their average December precipitation, many setting records (see Table 1). 24-hour precipitation amounts alone exceeded average total monthly amounts at numerous stations.

Very few stations recorded any precipitation during the first 12 days of the month. The upper level flow changed drastically, however, and the first of a series of upper level lows formed off the west coast and moved through Oklahoma. This disturbance produced the first of the two major storm systems, striking Oklahoma on the 14th and blanketing the State with snow. Snowfall amounts varied from 3 inches in the southwest to over a foot in the Panhandle with lesser amounts in the east (see Table 2). Strong winds caused drifting which made numerous roads impassible and resulted in school and office closings . Oklahoma City recorded 8.3", its 4th largest 24-hour snowfall event on record, 3 inches shy of the March 19, 1924 record. The storm exhausted over 50% of the city's winter sand budget, and cost over $200,000 in wages, equipment, and supplies. In a 24-hour period ending at 7 a.m. on the 15th, Oklahoma City police worked over 150 motor vechicle accidents. State agriculture both benefited and suffered from the storm. Although more than half of the State's cotton harvest had been completed, the snowfall delayed the remaining harvest. The storm did, however, benefit the wheat crop, serving as a good insulator and providing needed moisture. The cold blanket also slowed greenbug and alfalfa weevil development. Some motel, hotel, and wrecking services also benefited from increased revenues generated by the incapacitating storm.

Strong northerly winds behind the system brought cooler air into the State. Most of the northern third of the State remained below freezing on the 15th. Either the 15th or the 16th was the coldest day of the month at most locations Statewide. Southerly winds and warmer air returned to the State by the 17th. Meanwhile a new low pressure system approached Oklahoma from the west. On the 19th when the system reached Oklahoma, above freezing temperatures spared the State additional snow. Heavy rain amounts on the 19th and 20th, and the consequent runoff, combined with melting snow to cause some minor flooding. The Illinois River rose above its flood stage near Tahlequah where a 2-day rainfall of 3.09" was recorded. Skiatook reported 2.08" of rain on the 19th and the nearby Bird Creek crested more than a foot above flood stage. Sam Creek overflowed its banks and flooded a house and some roads in the Muskogee area.

The State's 2nd major storm of the month, a paralyzing ice storm, began on Christmas day. The atmospheric conditions conducive to sleet and freezing rain developed as cold air wedged below warmer air. Precipitation beginning as snow melted while falling through the warmer, intermediate layer. The resulting rain then froze upon contact with cold exposed surfaces, coating cars, trees, and powerlines with ice. Many electrical wires collapsed under the weight of the ice. Others snapped as ice-laden tree limbs fell on them. Over 60,000 Oklahoma households experienced electricity outages. Line repair continued through the end of the year. Only southeastern Oklahoma, where rainfall averaged about 1", was spared from the ice (see Map 1). State police recorded five storm-related road deaths. Extensive damage occurred in the central Oklahoma and Tulsa areas. Downed wires and tree limbs lined many Cleveland County roads. Tulsa officials estimated area damages at $20 million including the collapse, due to ice accumulations, of a 1900-foot communications tower in nearby Coweta.

OCS DIRECTOR RETIRES

1988 will witness many changes at the OCS. The greatest impact will be felt from the retirement of OCS's founder and director, Amos Eddy, effective December 31, 1987. Dr. Eddy's dynamic personality and insight into the economic importance of Oklahoma's climate established our State as being in the forefront of innovative climatological research and applications in the U.S. and the World. His presence and leadership will be sorely missed. A nationwide search has been initiated by the University of Oklahoma to locate a candidate who will continue to support and expand the Survey's present service and research components. It is anticipated a successor will be named by July 1, 1988. Dr. Claude Duchon, Director of the School of Meteorology, has been named Interim Director until that time. All other OCS staff members will remain in place.

TABLE 1

Record-breaking December 1987 precipitation amounts for selected Oklahoma stations.

STATION	CD	DECEMBER PRECIPITATION 1987	PREVIOUS RECORD (Since 1954)	30-YEAR MEAN
Helena	2	3.56	2.91	0.88
Hollow	3	5.57	4.71	1.91
Watonga	4	4.08	3.24	1.01
Konawa	5	7.15	5.01	1.74
Eufaula	6	9.53	4.90	2.29
McAlester	6	8.34	6.73	2.45
Marietta	8	8.01	5.06	1.73
Ardmore	8	6.92	5.88	1.72
Fanshawe	9	10.91	10.03	3.00

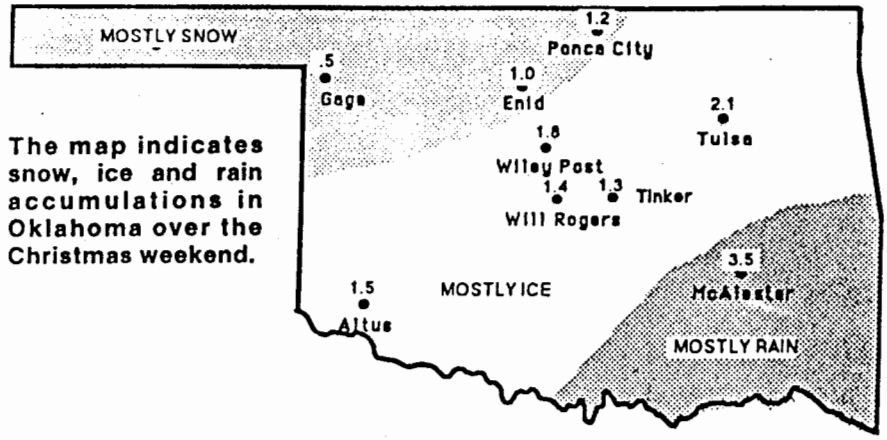
TABLE 2

STATE SNOWFALL FIGURES
In Inches

OKLA. CITY	8.3
TULSA	5
GAGE	5
HOBART	3
McALESTER	3
GUYMON	12
PONCA CITY	9
TINKER	8
ENID	7
LAWTON	4
ALTUS	7
PERRY	7
THOMAS	9
OKEENE	13
CALUMET	7
DUNCAN	3
EL RENO	8
GOTEBO	6
LOGAN	14
MANGUM	4
MOORELAND	12
SNYDER	4

(From the Daily Oklahoman December 16, 1987)

MAP 1



(From the Daily Oklahoman December 29, 1987)

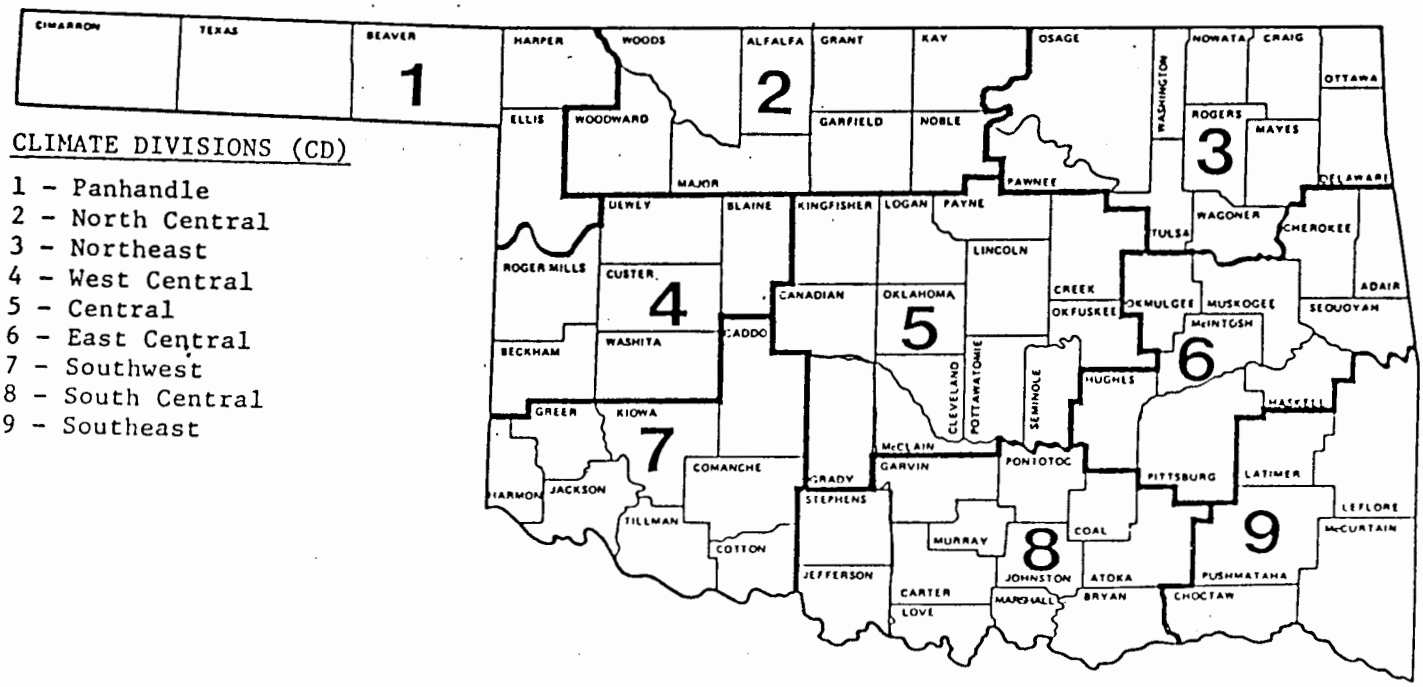
TABLE OF 1986/1987 COMPARISONS

Station	December Temperatures (F) 1986	1987	December Precipitation (in.) 1986	1987
Arnett	37.7	34.8	.701	2.460
Enid	39.3	38.0	1.462	3.260
Mutual	37.8	35.0	.660	1.700
Tulsa	40.1	41.8	.911	5.452
Elk City	39.5	38.4	.854	1.902
Oklahoma City	41.1	41.3	1.161	3.753
McAlester	41.8	44.0	1.353	8.342
Altus Irr. Sta.	43.4	39.9	.550	3.270
Durant	44.1	43.4	1.630	6.540
Ada	41.1	43.0	1.061	5.521
Antlers	45.3	46.8	.790	6.880

EXTREMES

Variable	Station	Division	Observation	Date
Minimum temperature (F)	Guymon	1	-10	27
	Kenton	1	-10	15
Maximum temperature (F)	Guymon	1	78	6
Maximum 24-Hour precipitation	Oswalt	8	3.13"	19

O K L A H O M A



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 summed. 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 summed. 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.

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.

1987 DECEMBER SUMMARY FOR NORTHWEST DIVISION (CD1)

NAME	ID	DIV	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	34.8	31	-2.4	73.	5	-2.	16	936.5	74.5	0.0	0.0	2.460	31	1.83	1.03	14
BEAVER	593	1	33.4	30	-2.8	74.	5	-5.	28	948.0	55.0	0.0	0.0	1.250	31	.80	.73	14
BUFFALO	1243	1	37.2	31	-1.3	75.	5	1.	16	860.5	38.5	0.0	0.0	1.300	28	.61	.55	15
FARGO	3070	1	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.200	31	1.55	.82	14
GAGE	3407	1	36.1	31	-.7	74.	5	-2.	16	895.0	21.0	0.0	0.0	1.312	31	.67	.30	19
GATE	3489	1	35.7	30	999.0	75.	4	3.	15	879.5	9999.0	0.0	9999.0	1.390	31	99.99	.98	13
GUYMON	3835	1	35.4	28	999.0	78.	6	-10.	27	830.0	9999.0	0.0	9999.0	.213	29	99.99	.15	26
KENTON	4766	1	33.0	30	-3.9	77.	4	-10.	15	960.5	89.5	0.0	0.0	.620	31	.32	.30	26
LAVERNE	5045	1	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.101	31	.43	.57	14
TURPIN	9017	1	33.7	30	999.0	73.	5	-5.	27	940.0	9999.0	0.0	9999.0	.360	30	99.99	.29	15

1987 DECEMBER SUMMARY FOR NORTH CENTRAL DIVISION (CD2)

NAME	ID	DIV	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	194	2	35.6	31	-2.5	68.	4	4.	16	912.0	78.0	0.0	0.0	2.530	31	1.72	.86	20
VANCE AFB	302	2	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.632	30	99.99	.63	25
BILLINGS	755	2	37.3	30	999.0	63.	6	3.	16	830.5	9999.0	0.0	9999.0	3.640	31	2.42	1.10	20
BLACKWELL	818	2	37.5	31	999.0	63.	5	4.	16	853.0	9999.0	0.0	9999.0	2.012	31	99.99	1.64	20
BRAMON	1075	2	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.660	31	99.99	1.52	20
CEDARDALE	1620	2	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.442	31	99.99	.67	14
CHEROKEE	1724	2	37.4	31	-.9	64.	5	8.	17	854.5	26.5	0.0	0.0	1.740	28	.87	1.35	19
ENID	2912	2	38.1	31	-1.2	64.	5	11.	16	832.5	35.5	0.0	0.0	3.260	29	2.23	1.51	20
FORT SUPPLY DAM	3304	2	33.3	30	-4.8	68.	3	-2.	17	951.0	117.0	0.0	0.0	1.912	29	1.29	.63	14
FREEDOM	3358	2	36.0	31	999.0	72.	4	1.	16	898.5	9999.0	0.0	9999.0	2.130	31	99.99	1.21	20
HARDY	3909	2	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.222	31	99.99	1.08	19
HELENA	4019	2	35.4	30	999.0	64.	4	3.	16	888.0	9999.0	0.0	9999.0	3.562	31	2.62	1.11	19
JEFFERSON	4753	2	37.0	31	999.0	65.	5	4.	16	866.5	9999.0	0.0	9999.0	3.721	31	99.99	1.22	19
LAHOMA RES.STA.	4950	2	39.2	27	999.0	51.	5	31.	31	696.0	9999.0	0.0	9999.0	0.000	0	99.99	99.99	0
MEDFORD	5768	2	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.611	31	99.99	.58	25
MUTUAL	6139	2	35.1	30	-2.7	70.	4	1.	16	898.0	55.0	0.0	0.0	1.700	31	1.04	.45	20
NEWKIRK	6278	2	37.1	31	-.5	61.	3	7.	16	866.0	17.0	0.0	0.0	4.100	31	2.88	1.30	20
PONCA CITY	7201	2	38.6	26	1.9	62.	6	5.	16	687.0	-190.0	0.0	0.0	1.870	27	.60	.68	19
RED ROCK	7505	2	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.511	31	2.22	1.22	20
RENFROW	7556	2	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.010	31	2.02	1.60	20
WAYNOKA	9404	2	36.0	31	-2.6	71.	4	-3.	16	899.5	81.5	0.0	0.0	1.480	31	.71	.91	20
WOODWARD	9760	2	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.551	31	.84	.81	20

1987 DECEMBER SUMMARY FOR NORTHEAST DIVISION (CD3)

NAME	ID	DIV	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	37.9	31	999.0	66.	3	-2.	16	839.0	9999.0	0.0	9999.0	2.690	27	1.07	1.30	20
BARTLESVILLE	548	3	38.4	31	-.6	66.	3	5.	17	823.5	17.5	0.0	0.0	3.460	31	1.98	1.15	20
BIXBY	782	3	40.6	27	.3	67.	3	11.	16	658.5	-107.5	0.0	0.0	3.731	31	1.90	1.73	19
BURBANK	1256	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.680	31	99.99	1.25	19
CHELSEA	1717	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	6.800	31	99.99	1.57	26
CLAREMORE	1828	3	42.3	30	3.3	70.	3	14.	17	681.0	-125.0	0.0	0.0	7.160	31	5.31	1.81	26
CLEVELAND	1902	3	38.2	26	999.0	65.	4	6.	16	697.0	9999.0	0.0	9999.0	5.720	27	99.99	1.60	28
FORAKER	3250	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.610	31	2.27	1.46	20
HOLLOW	4258	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.570	31	3.68	1.60	26
HOMINY	4289	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.470	31	2.19	1.19	20
HULAH DAM	4393	3	35.4	17	-1.8	64.	3	0.	16	503.0	-359.0	0.0	0.0	.270	28	-1.02	.15	14
JAY TOWER	4567	3	42.3	31	999.0	66.	4	12.	16	703.5	9999.0	0.0	9999.0	7.240	31	99.99	2.10	25
KANSAS	4672	3	40.5	31	999.0	64.	3	10.	16	759.5	9999.0	0.0	9999.0	8.263	31	99.99	2.04	20
LENAPAH	5118	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.440	31	99.99	1.60	27
MANNFORD	5522	3	40.0	30	999.0	66.	3	10.	16	750.5	9999.0	0.0	9999.0	4.880	31	99.99	1.28	20
MARAMEC	5540	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.800	31	2.57	1.75	27
MIAMI	5855	3	38.4	28	-.8	65.	4	6.	16	746.0	-54.0	0.0	0.0	4.880	28	2.73	1.64	19
NOWATA	6485	3	38.8	31	-.2	66.	3	4.	16	812.0	6.0	0.0	0.0	4.901	31	3.10	1.50	20
ONETA	6713	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	6.720	31	99.99	1.50	20
PAWHUSKA	6935	3	38.0	31	-.7	66.	3	2.	16	835.5	20.5	0.0	0.0	4.342	31	2.99	1.23	19
PAWHUSKA-2	6937	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.650	31	99.99	1.06	20
PRYOR	7309	3	38.8	30	-.6	67.	4	9.	18	785.5	-8.5	0.0	0.0	7.712	31	5.67	1.72	25
QUAPAW	7358	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.231	31	2.22	2.30	19
RALSTON	7390	3	38.9	31	999.0	64.	3	3.	16	810.0	9999.0	0.0	9999.0	4.210	31	2.85	1.05	20
RAMONA	7394	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.511	31	99.99	1.36	20
SKIATOOK	8258	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.680	31	2.23	2.08	19
SPAVINAW	8380	3	41.5	31	999.0	66.	3	12.	16	727.0	9999.0	0.0	9999.0	7.452	31	5.42	1.75	20
TULSA	8992	3	41.8	31	2.0	68.	3	15.	16	718.5	-62.5	0.0	0.0	5.452	31	3.63	1.90	19
UPPER SPAVINAW	9101	3	44.6	27	999.0	66.	4	15.	16	551.5	9999.0	0.0	9999.0	9.260	31	99.99	2.55	25
VINITA	9203	3	38.4	31	-.5	65.	3	1.	16	824.5	15.5	0.0	0.0	5.930	31	3.79	1.68	20
WAGONER	9247	3	41.9	31	.5	66.	8	15.	16	716.0	-16.0	0.0	0.0	6.242	31	4.18	1.69	20
WANN	9298	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.240	31	99.99	1.00	25

1987 DECEMBER SUMMARY FOR WEST CENTRAL DIVISION (CD4)

NAME	ID	DIV	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	36.7	17	-2.8	68.	7	3.	16	481.5	-309.5	0.0	0.0	2.780	22	1.95	1.40	21
CHEYENNE	1738	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.602	31	99.99	.60	14
CLINTON	1909	4	40.0	31	.1	72.	3	5.	16	773.5	-4.5	0.0	0.0	3.121	30	2.21	.80	20
COLONY	2039	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.690	25	99.99	1.74	19
ELK CITY	2849	4	38.4	31	999.0	72.	3	5.	16	826.0	9999.0	0.0	9999.0	1.902	31	1.19	.54	20
ERICK	2944	4	37.7	31	-2.6	73.	3	3.	16	847.0	81.0	0.0	0.0	2.322	31	1.64	.78	19
GEARY	3497	4	37.3	31	-2.9	66.	4	3.	16	859.0	90.0	0.0	0.0	1.370	31	.35	1.30	20
HAMMON	3871	4	35.3	30	-3.7	72.	4	0.	15	891.5	85.5	0.0	0.0	3.650	31	2.94	1.50	15
LEEDEY	5090	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.000	30	.31	1.00	14
MACKIE	5463	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.090	31	99.99	.54	27
MORAVIA	6035	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.253	31	1.45	.74	19
OKEENE	6629	4	37.9	31	-2.4	65.	5	6.	16	839.5	73.5	0.0	0.0	2.950	31	2.09	1.10	20
RETROP	7565	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.000	31	99.99	.75	26
REYDON	7579	4	38.0	31	999.0	74.	4	2.	27	837.5	9999.0	0.0	9999.0	1.271	31	.65	.77	19
SAYRE	7952	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.320	31	.72	.71	19
SWEETWATER	8652	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.111	31	99.99	.81	19
TALOGA	8708	4	36.9	31	-1.8	69.	3	5.	15	871.0	56.0	0.0	0.0	2.342	31	1.71	.47	14
THOMAS	8815	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.650	31	99.99	1.70	20
VICI	9172	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.060	31	99.99	.62	20
WATONGA	9364	4	37.6	31	999.0	67.	4	4.	16	848.5	9999.0	0.0	9999.0	4.084	31	3.08	1.10	20
WEATHERFORD	9422	4	38.1	30	-2.1	69.	3	8.	16	806.5	37.5	0.0	0.0	3.144	31	2.28	1.15	26

1987 DECEMBER SUMMARY FOR CENTRAL DIVISION (CD5)

NAME	ID	DIV	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	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.230	31	99.99	1.04	20
ARCADIA	288	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.710	31	99.99	1.00	20
TINKER AFB	325	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.724	30	99.99	1.30	19
BLANCHARD	830	5	40.9	31	999.0	68.	3	9.	16	747.5	9999.0	0.0	9999.0	4.662	31	99.99	1.20	20
BRISTOW	1144	5	40.9	31	.1	66.	5	9.	16	746.0	-4.0	0.0	0.0	7.011	31	5.42	1.06	26
CHANDLER	1684	5	40.5	31	-1.0	65.	4	11.	16	758.0	29.0	0.0	0.0	2.750	29	1.36	1.03	15
CHICKASHA	1750	5	38.9	31	-2.7	69.	5	1.	17	809.0	84.0	0.0	0.0	3.711	31	2.63	1.13	25
COX CITY	2196	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	6.140	31	99.99	1.30	24
CRESCENT	2242	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.830	31	99.99	.65	14
CUSHING	2318	5	38.7	30	-.8	64.	3	12.	16	787.5	-3.5	0.0	0.0	2.930	31	1.62	1.16	15
EL RENO	2818	5	38.6	31	-1.5	65.	5	5.	16	819.0	47.0	0.0	0.0	3.800	31	2.77	1.05	20
GUTHRIE	3821	5	40.2	31	.2	70.	5	6.	16	768.5	-6.5	0.0	0.0	2.700	29	1.50	1.20	20
HENNESSEY	4055	5	37.8	31	-1.5	65.	5	3.	16	844.0	47.0	0.0	0.0	2.850	31	1.86	.93	20
INGALLS	4489	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.215	31	99.99	.45	15
KINGFISHER	4861	5	38.5	31	-1.4	66.	5	5.	16	823.0	45.0	0.0	0.0	3.690	31	2.55	1.07	20
KINGFISHER CREEK	4862	5	38.6	31	999.0	66.	5	5.	16	819.0	9999.0	0.0	9999.0	3.680	31	99.99	1.07	20
KINGFISHER UJC	4864	5	38.7	31	999.0	66.	5	5.	16	816.5	9999.0	0.0	9999.0	3.680	31	99.99	1.07	20
KONAWA	4915	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	7.150	31	5.29	1.55	25
MARSHALL	5589	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.120	31	1.98	1.40	20
MEEKER	5779	5	41.1	31	.3	66.	4	10.	16	742.0	-8.0	0.0	0.0	1.900	29	.47	1.90	19
MULHALL	6110	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.250	31	99.99	.85	20
NORMAN	6386	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.481	31	3.13	1.16	26
OILTON	6616	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.890	31	99.99	.97	20
OKEMAH	6638	5	41.3	31	-.7	65.	3	16.	16	736.0	23.0	0.0	0.0	6.680	31	4.85	1.59	20
OKLAHOMA CITY	6661	5	41.3	31	1.4	67.	6	13.	16	735.0	-43.0	0.0	0.0	3.753	31	2.55	1.20	19
PERKINS	7003	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.740	31	2.39	1.49	29
PIEDMONT	7068	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.830	28	99.99	1.06	20
PRAGUE	7264	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	6.003	31	4.45	2.08	26
PURCELL	7327	5	40.5	31	-.5	68.	3	10.	16	760.5	16.5	0.0	0.0	5.292	31	3.83	1.26	19
SEMINOLE	8042	5	42.6	31	-.4	69.	3	16.	16	695.0	13.0	0.0	0.0	6.300	31	4.52	1.56	26
SHAWNEE	8110	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.591	31	4.06	1.72	26
STELLA	8479	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.660	31	99.99	.98	25
STILLWATER	8501	5	38.0	30	-1.7	65.	5	3.	16	808.5	27.5	0.0	0.0	3.810	31	2.59	.91	20
STROUD	8563	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.070	31	99.99	1.32	20
TECUMSEH	8751	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.311	31	99.99	.92	19
TROUSDALE	8960	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.240	31	99.99	1.50	19
UNION CITY	9086	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.611	31	2.27	1.33	20
WELTY	9479	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	6.201	31	99.99	1.35	26
WEWOKA	9575	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	7.100	31	5.32	1.92	25

1987 DECEMBER SUMMARY FOR EAST CENTRAL DIVISION (CD6)

NAME	ID	DIV	MEAN TEMP	NUM OBS	DEV FROM NORM	MAX TEMP	MAX DAY	MIN TEMP	MIN DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	MAX DAY
ASHLAND	364	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	8.980	31	99.99	2.12	19
BEGGS	631	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	6.390	31	99.99	1.25	20
CALVIN	1391	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	7.801	31	5.84	2.00	19
CHECOTAH	1711	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	8.471	31	6.36	2.04	19
DEWAR	2485	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	7.280	31	5.41	1.75	26
DUSTIN	2690	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	7.110	31	99.99	2.38	20
EUFAULA	2993	6	43.5	31	999.0	66.	3	19.	16	668.0	9999.0	0.0	9999.0	9.530	31	7.09	2.13	19
HANNA	3084	6	42.7	31	999.0	68.	8	17.	16	691.5	9999.0	0.0	9999.0	8.730	31	6.63	2.30	19
HARTSHORNE	3946	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	8.380	31	99.99	2.18	26
HASKELL	3956	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	7.430	31	5.46	1.75	25
HOLDENVILLE	4235	6	42.1	31	-.8	69.	3	15.	16	708.5	23.5	0.0	0.0	7.840	31	6.01	1.80	26
LAKE EUFALA	4975	6	43.3	30	999.0	66.	8	22.	16	652.0	9999.0	0.0	9999.0	9.610	31	99.99	2.91	26
LYONS	5437	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	9.143	31	6.83	2.70	24
MCALESTER	5664	6	44.0	31	2.0	68.	3	18.	16	650.5	-62.5	0.0	0.0	8.342	31	5.96	2.52	19
MCCURTAIN	5693	6	43.9	31	999.0	67.	3	20.	21	655.5	9999.0	0.0	9999.0	7.840	31	5.20	1.60	26
MUSKOGEE	6130	6	42.6	30	.9	67.	4	16.	16	673.0	-49.0	0.0	0.0	3.420	28	1.18	.93	13
OKMULGEE	6670	6	41.3	31	-.6	67.	3	17.	17	734.0	18.0	0.0	0.0	7.722	31	5.67	2.37	19
OKTAHA	6678	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	9.500	31	99.99	2.47	19
QUINTON	7372	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	7.760	31	5.40	2.00	19
SALLISAW	7862	6	42.6	31	.4	69.	3	18.	16	695.5	-11.5	0.0	0.0	8.151	31	5.68	1.48	25
SCIPIO	7979	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	9.320	31	99.99	1.95	19
SCRAPER	7993	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	9.060	31	99.99	2.09	20
SHORT	8170	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	8.511	31	99.99	2.05	25
STILLWELL	8306	6	41.2	31	999.0	64.	8	14.	16	736.5	9999.0	0.0	9999.0	8.223	31	99.99	1.87	26
TAHLEQUAH	8677	6	39.9	31	-.9	66.	3	9.	16	777.0	27.0	0.0	0.0	6.971	31	4.51	2.10	20
WEBBERS FALLS	9445	6	41.6	30	1.2	67.	3	17.	17	701.0	-62.0	0.0	0.0	9.820	31	7.53	2.11	26
WESTVILLE	9523	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	7.150	31	99.99	1.75	25
WETUMKA	9571	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	8.533	31	6.64	1.98	19

1987 DECEMBER SUMMARY FOR SOUTHWEST DIVISION (CD7)

NAME	ID	DIV	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	39.9	31	-2.9	72.	3	8.	16	779.0	91.0	0.0	0.0	3.27	31	2.40	1.75	26
ALTUS DAM	184	7	39.6	30	999.0	70.	4	8.	16	763.0	9999.0	0.0	9999.0	1.73	26	.88	.76	20
ANADARKO	224	7	38.0	27	-3.2	69.	5	7.	16	729.0	-9.0	0.0	0.0	3.64	31	2.45	1.03	25
ALTUS AFB	447	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.83	28	99.99	1.40	25
CARNEGIE	1504	7	39.2	31	-1.9	69.	4	3.	16	799.5	58.5	0.0	0.0	3.77	31	2.71	1.44	26
CHATTANOOGA	1706	7	41.4	30	-1.0	73.	3	13.	15	707.0	6.0	0.0	0.0	3.48	31	2.40	1.74	19
DUNCAN	2668	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.72	31	99.99	1.20	19
FREDERICK	3353	7	40.4	30	-3.4	72.	3	13.	16	737.0	80.0	0.0	0.0	2.37	31	1.35	.72	25
GRANDFIELD	3709	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.39	29	1.14	.84	19
HOBART	4204	7	39.5	31	-.4	70.	3	4.	16	791.0	13.0	0.0	0.0	2.96	31	2.15	1.36	19
HOLLIS	4249	7	39.2	27	-3.0	75.	3	4.	16	697.5	-9.5	0.0	0.0	1.79	27	1.06	1.04	19
LAWTON FIRE DEPT.	5063	7	40.1	30	-2.1	71.	2	15.	15	746.5	39.5	0.0	0.0	3.482	31	2.26	1.06	19
FT.SILL	5068	7	40.2	30	999.0	69.	2	15.	16	742.5	9999.0	0.0	9999.0	2.782	31	1.56	1.66	19
LOCO	5247	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.86	31	99.99	1.28	25
LOOKEBA	5329	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.37	31	99.99	1.45	20
MANGUM	5509	7	39.2	31	-2.7	73.	3	6.	15	800.5	84.5	0.0	0.0	2.55	31	1.79	.67	19
RANDLETT	7403	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.66	29	99.99	1.78	25
ROOSEVELT	7727	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.75	20	.78	1.03	19
SEDAN	8016	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.542	31	99.99	1.54	26
SNYDER	8299	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.151	31	2.13	1.30	25
VINSON	9212	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.97	31	1.19	.77	19
WALTERS	9278	7	44.1	19	.6	72.	3	14.	15	396.5	-270.5	0.0	0.0	1.60	18	.18	1.15	19
WICHITA	9629	7	40.7	30	-.5	75.	3	11.	16	728.5	-9.5	0.0	0.0	3.50	31	2.38	2.00	18
WILLOW	9668	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.671	31	99.99	.85	19

1987 DECEMBER SUMMARY FOR SOUTH CENTRAL DIVISION (CD8)

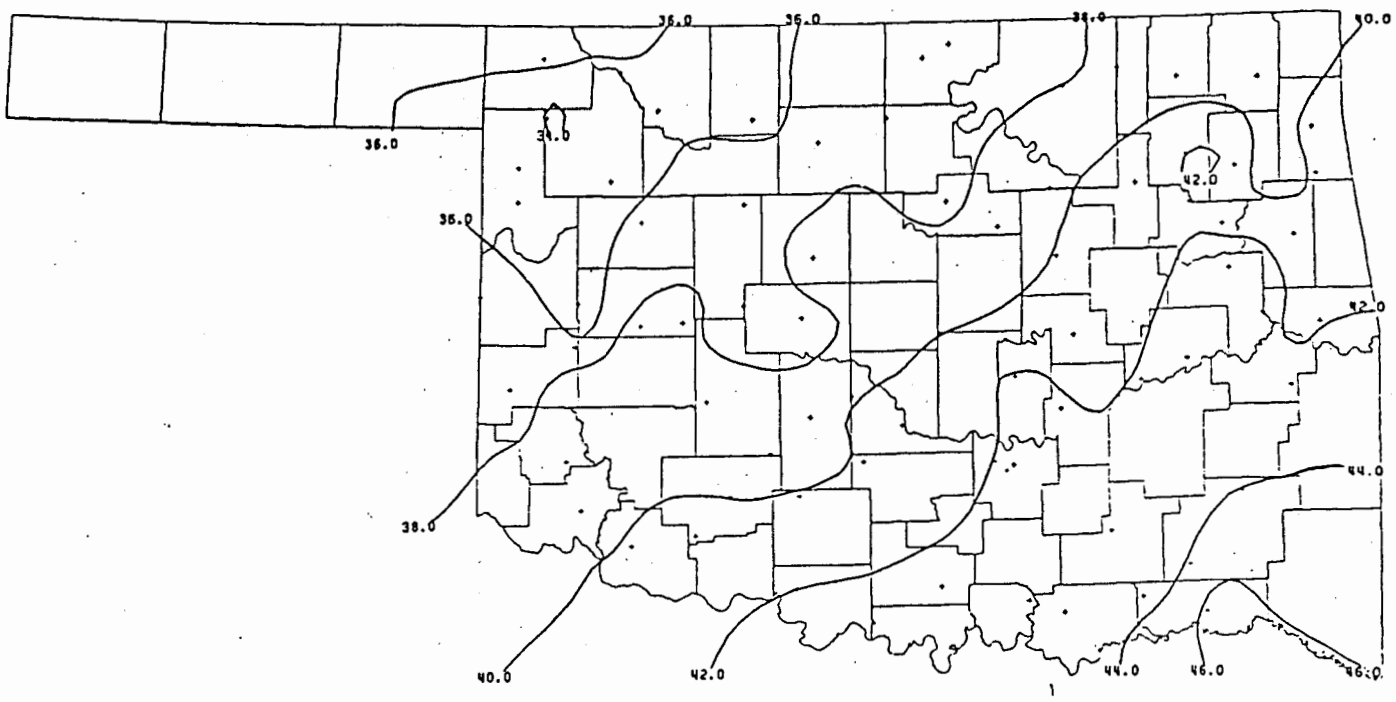
NAME	ID	DIV	MEAN TEMP	NUM OBS	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
ADA	17	8	43.0	31	-.5	69.	3	16.	16	680.5	13.5	0.0	0.0	5.521	31	3.58	2.37	19
ARDMORE	292	8	44.1	31	-2.1	69.	6	17.	15	648.0	65.0	0.0	0.0	6.920	31	5.21	2.73	19
ATOKA DAM	394	8	42.1	30	999.0	69.	3	22.	16	687.0	9999.0	0.0	9999.0	6.290	31	99.99	3.01	21
BOKCHITO	917	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	8.020	31	99.99	2.00	26
CANEY	1437	8	46.4	17	999.0	72.	2	22.	16	315.5	9999.0	0.0	9999.0	2.210	19	99.99	1.18	7
CENTRAHOMA	1648	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	7.730	31	99.99	2.50	25
CHICKASAW	1745	8	41.2	30	999.0	71.	3	14.	16	715.5	9999.0	0.0	9999.0	6.611	31	99.99	2.15	19
COLEMAN	2011	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	6.000	31	99.99	1.45	20
COMANCHE	2054	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	6.110	31	99.99	1.93	25
DAISY	2354	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	9.172	31	6.51	1.80	26
DUNCAN	2660	8	999.0	0	-43.7	999.	0	999.	0	999.0	-660.0	999.0	0.0	5.460	31	4.11	1.75	26
DURANT	2678	8	43.4	30	999.0	70.	4	20.	17	648.5	9999.0	0.0	9999.0	6.540	31	4.36	1.91	21
ELMORE CITY	2872	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.000	31	99.99	2.50	25
FARRIS	3083	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	7.230	31	99.99	1.81	26
GRADY	3688	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.520	27	99.99	1.32	26
HEALDTON	4001	8	43.5	28	999.0	73.	5	15.	15	601.5	9999.0	0.0	9999.0	7.081	31	5.47	2.81	19
KINGSTON	4865	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	8.010	31	6.00	2.80	25
LEHIGH	5108	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.652	31	99.99	1.62	26
LINDSAY	5216	8	40.9	31	999.0	69.	3	11.	16	748.5	9999.0	0.0	9999.0	4.632	31	3.16	1.80	19
MADILL	5468	8	43.8	30	-1.0	73.	4	20.	16	634.5	8.5	0.0	0.0	7.070	31	5.10	2.05	6
MARIETTA	5563	8	44.4	31	-.4	72.	3	19.	16	637.5	11.5	0.0	0.0	8.010	31	6.31	2.00	6
MARLOW	5581	8	40.9	31	999.0	71.	4	8.	16	748.5	9999.0	0.0	9999.0	5.261	31	3.90	1.55	20
MCGEE CREEK	5713	8	43.9	30	999.0	71.	4	20.	16	632.5	9999.0	0.0	9999.0	7.170	31	99.99	1.87	26
OSWALT	6787	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.950	31	99.99	3.13	19
PAULS VALLEY	6926	8	41.8	31	-1.0	71.	3	13.	16	718.5	30.5	0.0	0.0	5.810	31	4.10	1.55	25
PONTOTOC	7214	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.970	25	4.10	2.10	20
TISHOMINGO	8884	8	42.7	17	999.0	72.	2	18.	16	378.5	9999.0	0.0	9999.0	6.530	21	4.45	2.20	28
WAURIKA	9395	8	43.9	31	-.7	75.	3	15.	15	653.0	21.0	0.0	0.0	4.621	31	3.14	2.08	25
WAURIKA LAKE	9399	8	41.4	17	999.0	74.	6	14.	15	401.0	9999.0	0.0	9999.0	3.030	21	99.99	1.97	21

1987 DECEMBER SUMMARY FOR SOUTHEAST DIVISION (CD9)

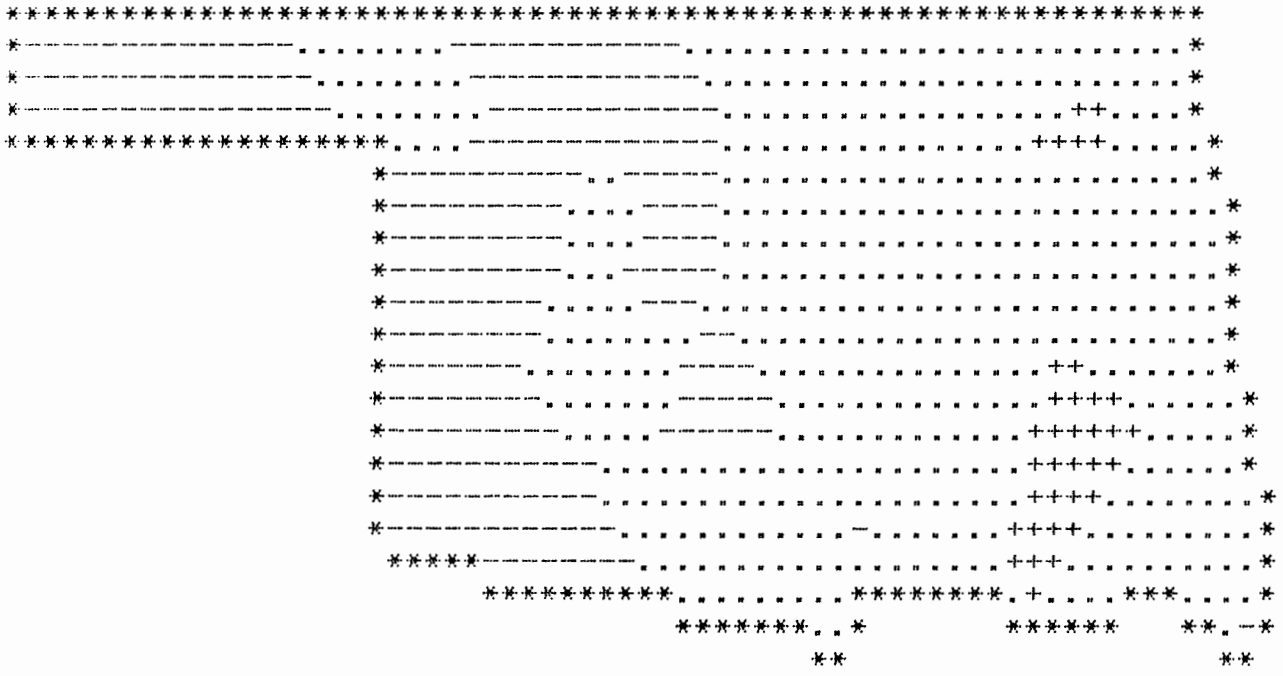
NAME	ID	DIV	MEAN TEMP	NUM OBS	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
ANTLERS	256	9	46.8	31	3.1	73.	5	30.	17	563.0	-97.0	0.0	0.0	6.88	31	3.86	1.39	25
BENGAL	670	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	8.18	31	99.99	2.67	26
BOSWELL	980	9	45.5	31	999.0	70.	4	20.	16	604.5	9999.0	0.0	9999.0	6.55	31	3.91	2.02	26
BROKEN BOW DAM	1168	9	44.8	30	999.0	72.	3	21.	30	607.0	9999.0	0.0	9999.0	7.86	31	99.99	2.70	26
FANSHAWE	3065	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	10.91	31	7.97	2.41	26
HEAVENER	4008	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	9.73	31	6.51	2.14	26
HUGO	4384	9	46.2	31	.5	71.	3	21.	16	582.0	-16.0	0.0	0.0	6.19	31	3.11	1.90	26
IDABEL	4451	9	45.3	30	.3	73.	11	23.	17	589.5	-30.5	0.0	0.0	7.02	31	3.55	2.10	26
POTEAU	7254	9	42.7	30	999.0	69.	1	18.	17	667.5	9999.0	0.0	9999.0	9.90	31	99.99	1.92	25
SMITHVILLE	8285	9	42.8	31	999.0	69.	4	15.	17	688.5	9999.0	0.0	9999.0	4.51	27	99.99	2.25	20
SPIRO	8416	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	8.35	31	5.56	2.33	26
TUSKAHOMA	9023	9	44.3	31	999.0	70.	3	17.	17	642.0	9999.0	0.0	9999.0	5.39	31	99.99	1.74	26
TUSSY	9032	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.89	31	99.99	1.39	25

1987 DECEMBER CLIMATE DIVISION SUMMARY

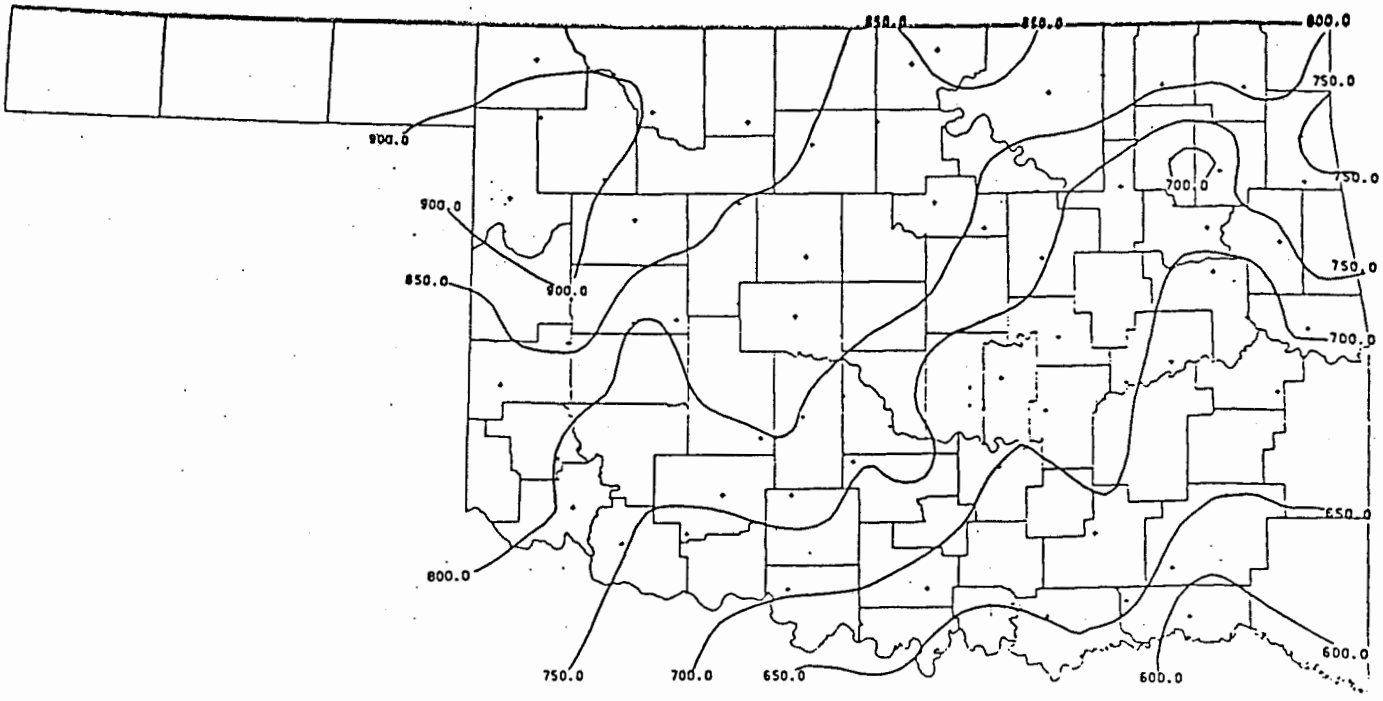
CLIMATE DIV	MEAN TEMP	NUM STA	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEGREE DAYS	DEV FROM NORM	COOL DEGREE DAYS	DEV FROM NORM	TOT PPT	NUM STA	DEV FROM NORM	MAX 24-HR	DAY
1	34.9	8	-2.2	78.0	6	-10.0	15	906.2	41.8	0.0	0.0	1.22	10	.64	1.03	14
2	36.5	13	-1.5	72.0	4	-3.0	16	865.1	30.1	0.0	0.0	2.59	21	1.63	1.64	20
3	40.2	17	.9	70.0	3	-2.0	16	749.5	-48.4	0.0	0.0	5.07	32	3.37	2.55	25
4	37.7	10	-2.0	74.0	4	0.0	15	840.0	57.5	0.0	0.0	2.22	19	1.44	1.74	19
5	39.8	17	-.8	70.0	5	1.0	17	777.4	22.7	0.0	0.0	4.21	39	2.82	2.08	26
6	42.4	12	.7	69.0	3	9.0	16	695.2	-27.0	0.0	0.0	8.11	28	5.91	2.91	26
7	39.8	12	-2.2	75.0	3	3.0	16	751.7	39.2	0.0	0.0	2.85	22	1.83	2.00	18
8	42.8	13	-1.5	75.0	3	8.0	16	673.4	33.1	0.0	0.0	6.42	25	4.61	3.13	19
9	44.8	8	.0	73.0	11	15.0	17	618.0	-8.0	0.0	0.0	7.34	13	4.31	2.70	26



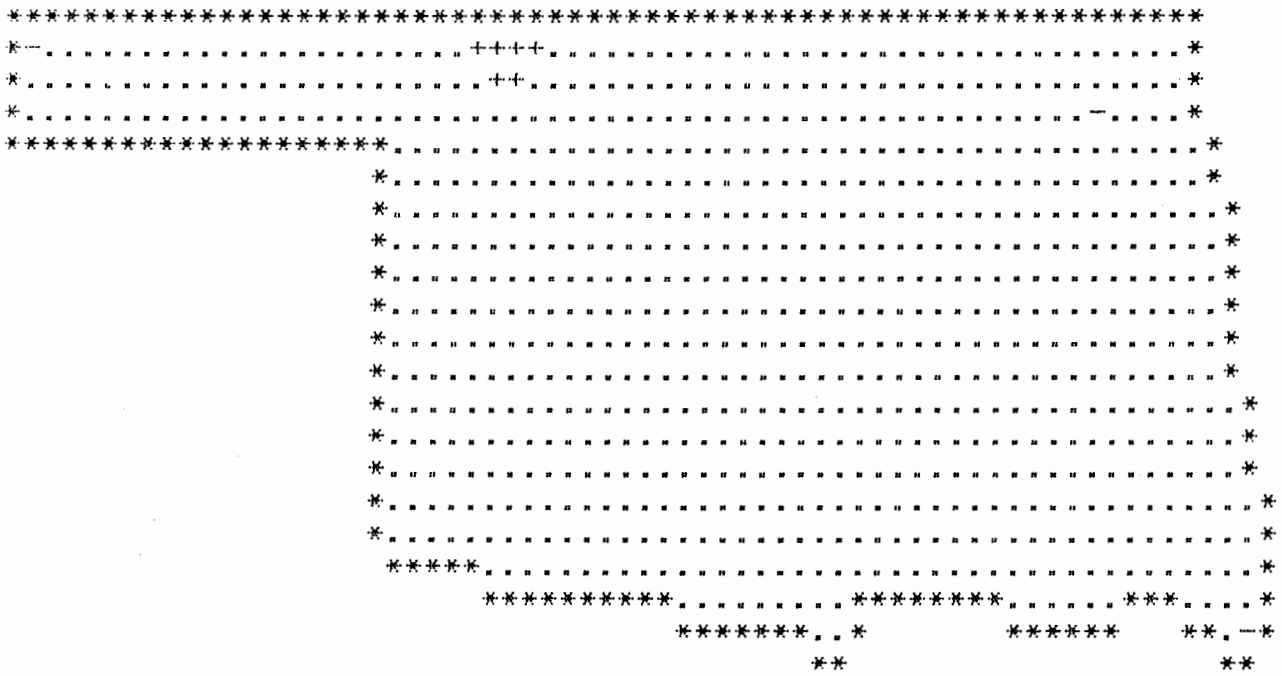
DECEMBER 1987 AVERAGE MONTHLY TEMPERATURE
(Degrees F)



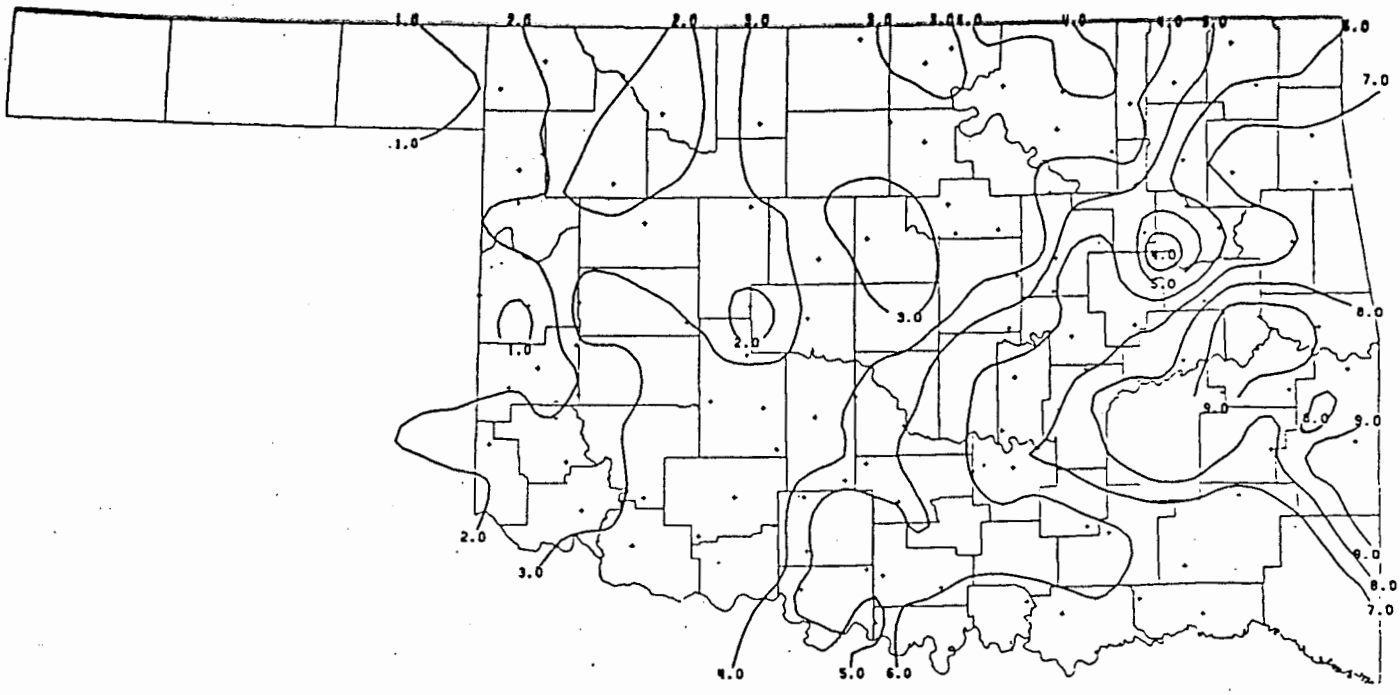
DECEMBER 1987 DEVIATION FROM NORMAL TEMPERATURES



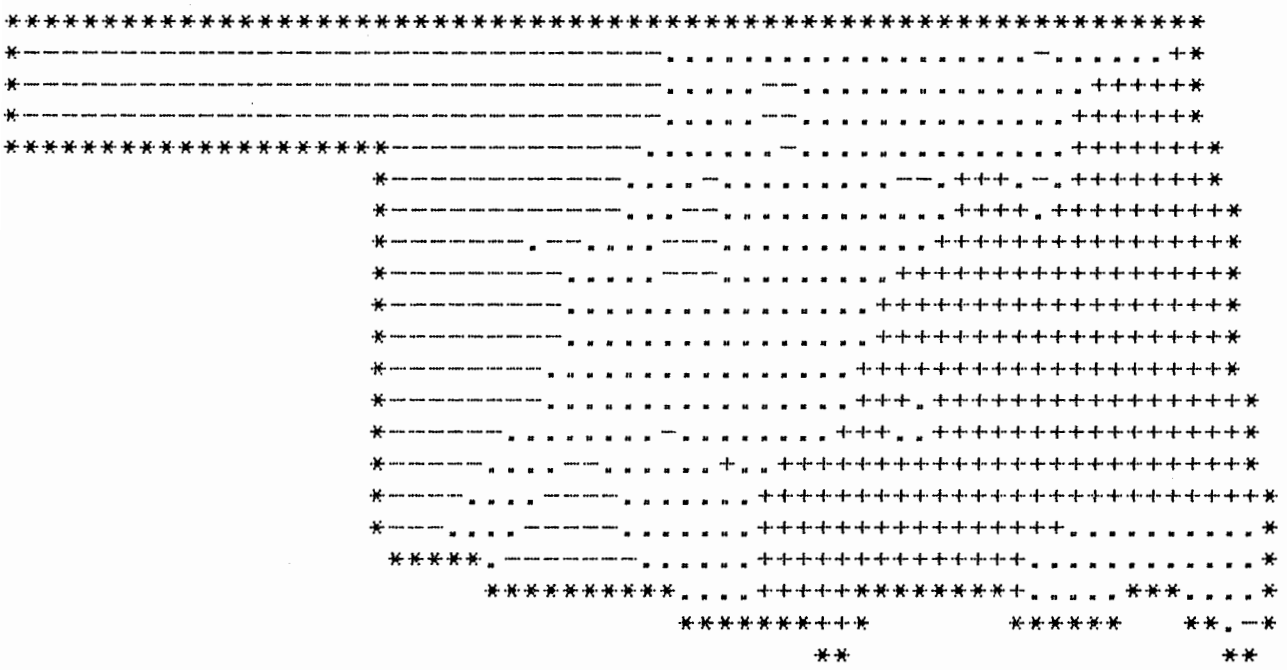
DECEMBER 1987 TOTAL HEATING DEGREE DAYS



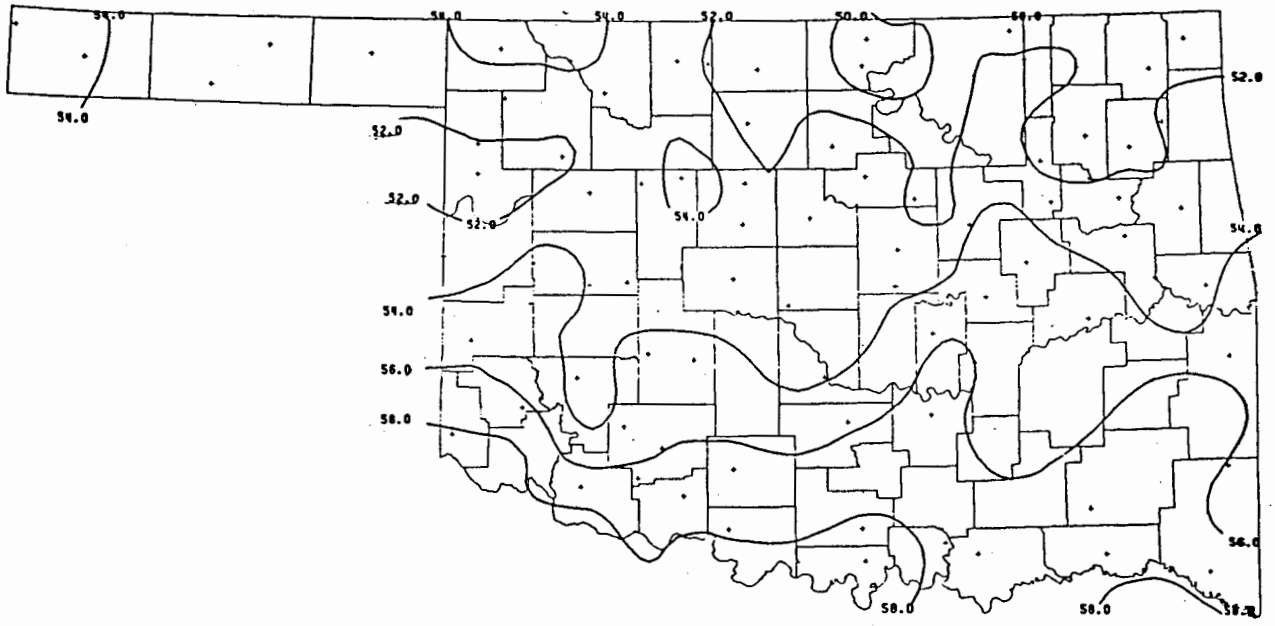
DECEMBER 1987 DEVIATION FROM NORMAL HEATING DEGREE DAYS



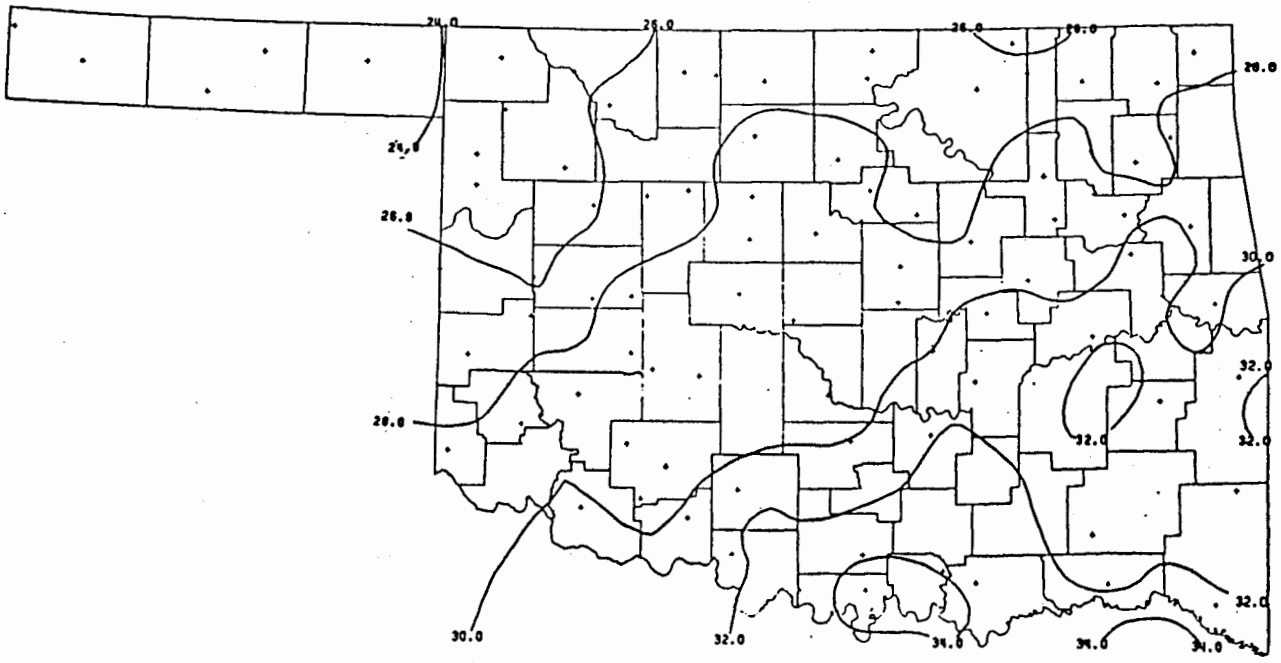
DECEMBER 1987 TOTAL PRECIPITATION
(Inches)



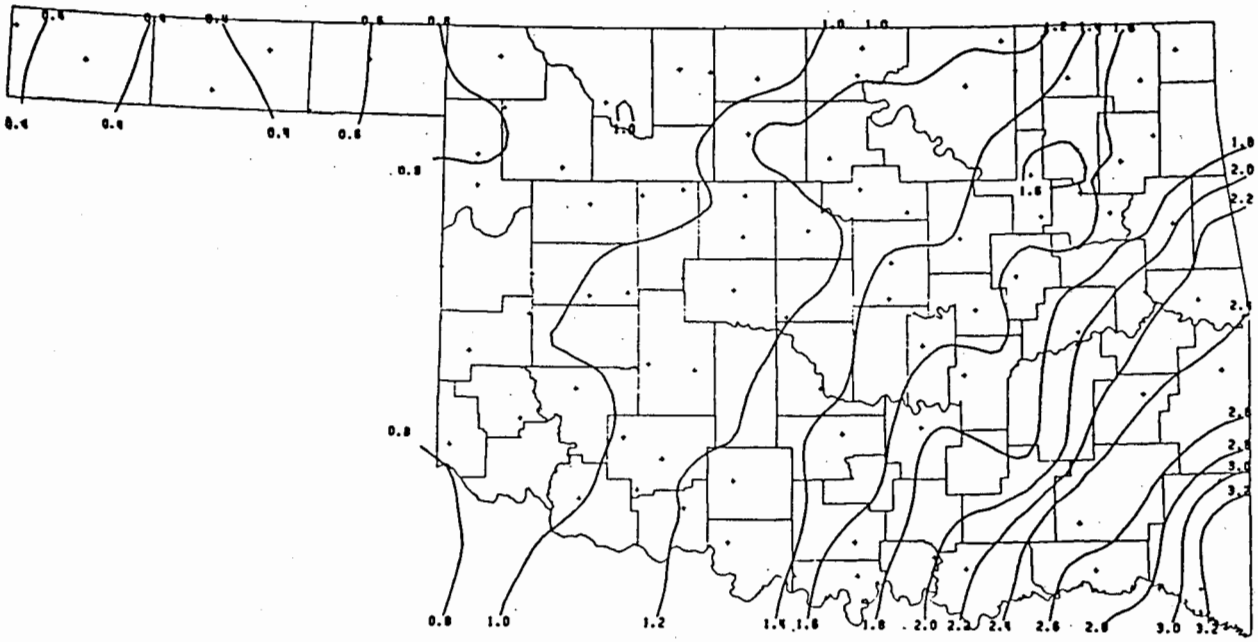
DECEMBER 1987 DEVIATION FROM NORMAL PRECIPITATION



30-YEAR MEAN FEBRUARY DAILY MAXIMUM TEMPERATURE



30-YEAR MEAN FEBRUARY DAILY MINIMUM TEMPERATURE

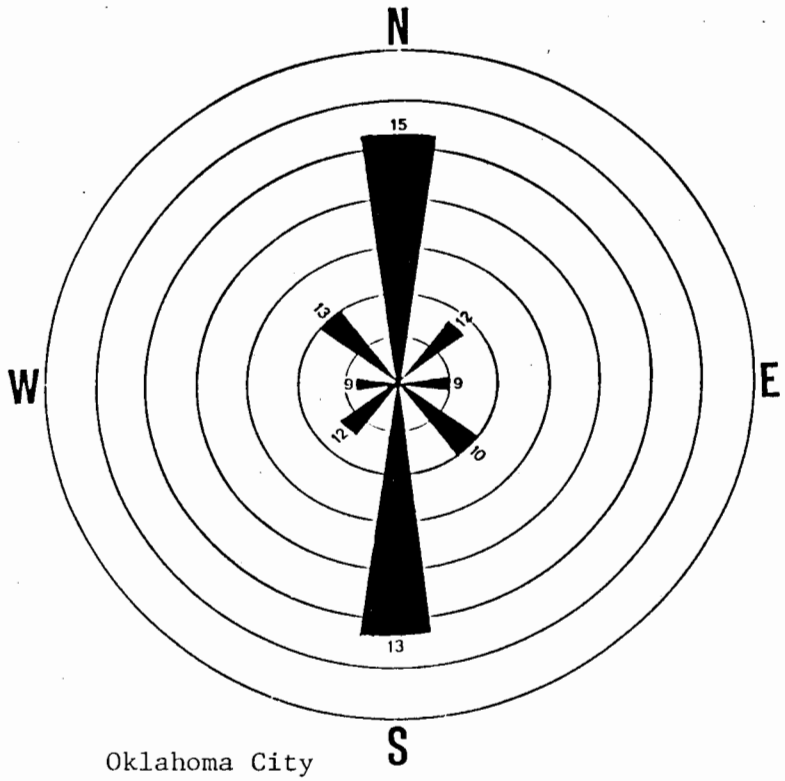


30-YEAR MEAN FEBRUARY PRECIPITATION

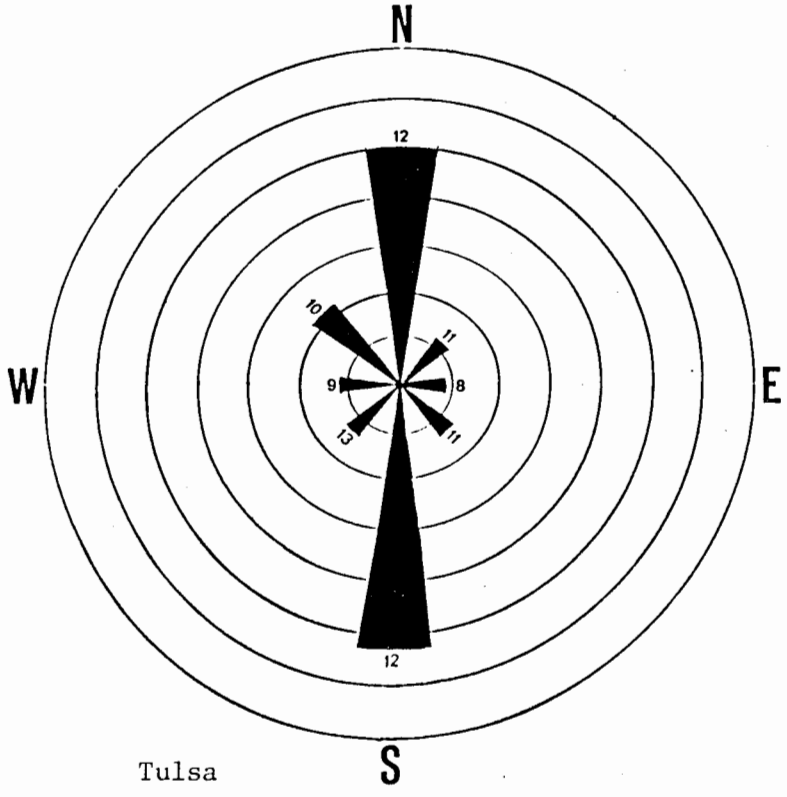
	BUFFALO		TULSA		OKLAHOMA CITY		ALTUS IRR		HUGO	
	AVG TEMP	CHANGE FROM PREVIOUS MONTH	AVG TEMP	CHANGE FROM PREVIOUS MONTH	AVG TEMP	CHANGE FROM PREVIOUS MONTH	AVG TEMP	CHANGE FROM PREVIOUS MONTH	AVG TEMP	CHANGE FROM PREVIOUS MONTH
JAN	34.3	-3.7	34.8	-4.6	35.4	-4.1	39.0	-2.6	41.8	-3.5
FEB	40.0	5.7	40.4	5.6	40.6	5.2	44.0	5.0	46.7	4.9
MAR	48.1	8.1	49.5	9.1	49.2	8.6	52.4	8.4	54.6	7.9
APR	59.9	11.8	61.4	11.9	60.4	11.2	63.3	10.9	63.9	9.3
MAY	68.4	8.5	69.1	7.7	68.1	7.7	71.3	8.0	71.1	7.2

January is typically Oklahoma's coldest month of the year. As spring approaches, temperatures begin to increase. The above table reveals the long-term mean monthly temperatures (°F) and the change from the mean of the previous month for five selected stations. February is the first month to show an increase. The greatest warming occurs in April.

February wind roses for Oklahoma City and Tulsa for 10-year (1965-1974) mean winds (data adapted from NOAA Airport Climatology Series). Percents represent the percentage of winds coming from a direction. The numbers at the end of the bars indicate the average speed of winds from that direction. Graphics by Tim Johnson.



Oklahoma City



Tulsa