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 JUNE 1986

May's wet weather continued for the first part of June as the upper level storm system responsible for the widespread precipitation remained over western Oklahoma. In an extreme case on the morning of the 3rd, the system delivered an estimated 6.5 inches of rain to Owasso within two hours. Other two-hour rainfall reports included Walters, 1.5 inches, and Duncan, 2.5 inches, which resulted in minor flooding.

During the next few days various areas across the State reported wet and damaging weather. On the 6th, a small funnel was reported near Cushing. The next day, winds uprooted trees and overturned a mobile home near Stilwell. In another storm near Woodward, winds gusted to 70 mph. On the 9th an unstable air mass entered Oklahoma from the northwest and produced hail in Beckham, Greer, Harmon, Kiowa, and Washita Counties in southwest Oklahoma. A possible tornado was sighted near Lone Wolf. Tapping the deep moist layer which existed over western Oklahoma, the storms produced 1.65 inches of rainfall at Hobart, 1.47 inches at Altus, and 1.33 inches at Durant.

The 10th of June marked the 18th consecutive day in which Oklahoma received rain. This time a cold front entered the State and met warm, unstable air ahead of a dry line. Thunderstorms producing small hail and gusty winds formed over central Oklahoma and moved into the northeastern section of the State where they tore roofs from buildings, and downed power lines which served some 10,000 Tulsans. As the front passed, cooler air behind it allowed many cities to record their monthly lowest readings, in the lower to mid 50's, the next few mornings.

Harvest delays caused by the unusually high number of rain days the first half of June became a major concern of many State wheat

farmers. Combines could not venture into soggy, often muddy fields. Excessive rains caused some mature wheat stalks to become brittle and collapse (lodge) which prevented harvesting of these plants. The wet weather also encouraged buttercup and other weed growth. At some farms, weeds were tall enough to cause wheat to fall off combines back into the fields. The weeds added even more moisture to the already water-laiden wheat. As a result, test weights below 60 pounds per bushel were common while other readings of less than 50 weight forced farmers to sell their wheat to dairies as feed at a lower price. Wet weather was also blamed for a 15% or more decrease in yields when compared to 1985 figures.

More rain dampened the State on the 14th as thunderstorms developed in northern Oklahoma and moved slowly southwestward. As a result of their slow movement these storms produced large amounts of rainfall at points along their paths. In response, the National Weather Service issued flash flood warnings for Noble, Kingfisher, and Garfield Counties in north central Oklahoma. Rainfall reports included Chickasha 1.23 inches, Redrock 1.42 inches, and Altus 2.14 inches. Baseball size hail was reported near Enid and smaller hail fell in Kay, Lincoln, Cleveland, and Osage Counties.

Two days later, on the 16th, thunderstorms from two different weather features produced rain in Oklahoma. In the southeast, 2.8 inches of rain fell on Tuskahoma in Pushmataha County as a result of an upper level storm system over that area. Meanwhile, storms moving in from Kansas produced rain in northwest and central Oklahoma. A severe storm in Elk City downed power lines and trees.

Another interesting weather scenario occurred on the 23rd when outflow from nocturnal Kansas thunderstorms aided the movement of a weak cold front into Oklahoma. Later in the day, the front collided with moist, heated air, and strong thunderstorms developed especially over central Oklahoma where El Reno reported 2 inches of rain from the storms and Oklahoma City received 1.5 inches in one hour. In the Woodward area, 3 inches of rain reportedly fell in less than one hour.

During the last week of the month typical summer flow developed as an upper level ridge strengthened over the State. (See related article in this summary.) Little rain was recorded and temperatures rose into the mid 90's or higher Statewide, with Buffalo recording the State's highest June 1986 temperature of 104 degrees on the 30th.

TABLE OF 1985/1986 JUNE COMPARISONS

Station	June Temperatures (F) 1985	1986	June Precipitaiton (in.) 1985	1986
Goodwell	72.4	74.3	1.973	2.662
Lahoma	72.9	77.8	4.5ØØ	7.88Ø
Mutual	74.6	76.3	3.Ø1Ø	4.97Ø
Tulsa	76.3	79.7	5.862	4.272
Elk City	75.9	76.6	5.161	4.375
Oklahoma City	76.6	78.9	8.347	3.112
McAlester	77.3	78.5	3.331	3.154
Altus Irr Sta	79.3	77.5	8.314	3.762
Durant	78.2	79.1	5.731	11.432
Ada	77.Ø	78.Ø	7.Ø54	4.41Ø
Tuskahoma	76.8	78.2	4.972	13.ØØ1

JUNE EXTREMES

Variable	Station	Division	Observation	Date
Minimum temperature (F)	Turpin	1	45	11
Maximum temperature (F)	Buffalo	1	1Ø4	3Ø
Maximum 24-hour precipitaiton	Willow	7	5.3Ø"	1Ø

THE INFUENCE OF UPPER-LEVEL ATMOSHERIC WAVES ON OKLAHOMA'S SPRING AND SUMMER WEATHER

BY
THOMAS DUNN
ROBERT J. SLADEWSKI

As typical, persistently hot, summer-time weather patterns become established across the State, the diversity of Oklahoma's weather is all but forgotten. Not a summer day goes by without at least a few sincere wishes for just one hour of wintry snow and ice to quell the sticky Oklahoma heat. Why is it that supplies of cool air and rain so common during other times of the year are few and far between during the middle of summer? The answer, in part, is due to the fact that our weather down near the surface is often affected by what takes place at very great heights in the atmosphere.

In a general sense, weather patterns at the Earth's surface are governed by patterns of airflow usually moving from west to east within the middle to upper atmosphere at altitudes from 15,ØØØ to 3Ø,ØØØ feet. The familiar surface weather features such as storm-bearing cold fronts or the prolonged occurrence of sunny skies associated with slow-moving high pressure systems are linked to variations in this prevailing middle-atmosphere circulation.

Superimposed on this westerly air current are numerous ridges and troughs which are much like the waves often seen on the surface of a wind-swept lake or pond, with the peaks of the waves representing ridges and the spaces in between any two peaks resembling troughs. Climatological studies have shown that the average geographical position of atmoshperic ridges and troughs can dictate the type of weather experienced at the surface. In this way, the average position of ridge and trough patterns in the atmosphere can, and often does, affect regional climates by favoring certain weather types.

For example, a strong upper level ridge located over the State usually results in prolonged heat and drought. Oklahoma's weather was under the influence of one such ridge during the summer of 198Ø and climate records for Oklahoma City confirm that there were 95 days with temperatures over 9Ø degrees compared to a normal amount of about 65 days. As might be expected, rainfall during that period was nearly 45% of normal.

A typical springtime weather pattern in Oklahoma is one dominated by an upper level trough located over the central plains. The trough position allows southerly intrusions of cool Canadian air masses into the warm and humid regions of the south-central plains states, usually ushering in rain and thunderstorms as well as statewide outbreaks of severe weather. In late spring the trough shifts eastward giving way to a developing warm ridge. This ridge inhibits the advance of cold fronts into Oklahoma giving rise to extended periods of warmer and drier weather. The ridge intensifies and becomes firmly entrenched within the wind flow pattern over the central plains during the summer and Oklahoma's weather returns to relentless hot and dry days (see Tables A and B), typically followed by sultry and often oppressive nights.

As our upper level ridge begins to break down, far less stressing temperatures will arrive. In Oklahoma City, September's monthly average temperature drops to a pleasant 73 degrees and October's further still, to a cool 62 degrees.

Tables A and B contain temperature and precipitation data for months April through October for cities representing the following 5 areas of Okalahoma: 1) northwest - Buffalo, 2) northeast - Tulsa, 3) central - Okalahoma City, 4) southwest - Hollis, and 5) southeast - Hugo.

Table A reveals that all sections of the State can expect temperatures 9Ø degrees or above at least 2 out of 3 days in the mid-summer months of July and August. As autumn approaches, this average falls to about one of every two days in September.

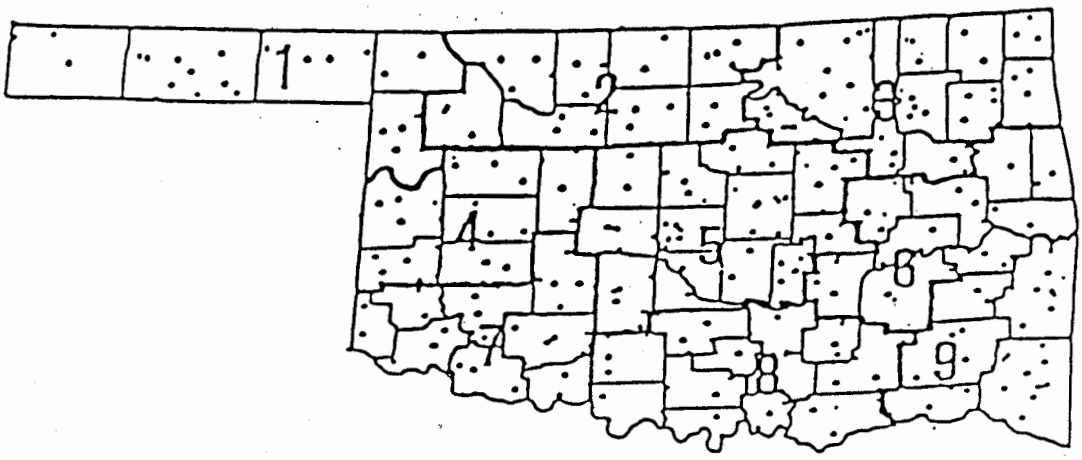
As shown in Table B, all areas of Oklahoma experience a marked decrease in monthly rainfall following the spring to summer transition.

Table A: Average number of days with temperature exceeding 9Ø degrees Farenheit.

	April	May	June	July	Aug	Sept	Oct
Buffalo	2	7	19	27	26	14	4
Tulsa	Ø	2	13	24	22	1Ø	1
Oklahoma City	Ø	2	11	23	22	9	1
Hollis	4	1Ø	22	26	27	16	4
Hugo	Ø	2	15	26	26	13	2

Table B: Average monthly precipitation (inches).

	April	May	June	July	Aug	Sept	Oct
Buffalo	2.15	4.55	3.52	3.35	3.24	2.76	2.Ø2
Tulsa	3.87	5.63	4.37	3.49	3.Ø1	4.37	3.58
Oklahoma City	2.81	5.64	4.ØØ	2.96	2.48	3.43	3.2Ø
Hollis	2.Ø6	4.14	3.24	1.59	2.Ø6	2.72	2.56
Hugo	4.17	5.93	4.62	2.74	3.56	4.87	4.25



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 provides the general station distribution and the locations of the climate divisions. Each station table contains the following:

station name:
station identification number: These are usually assigned by the National Climatic Data Center.
climate division: See the figure above.
mean monthly temperature:
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 a 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 an indoor temperature of 65 degree. Missing observations may result in an artificially high or low value. For June, CDD would be calculted as:

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 recieved. A negative valued 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 station 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 catory, 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.

JUNE 1986 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	77.8	30	999.0	94.	29	57.	14	0.0	9999.0	383.5	9999.0	6.170	30	1.63	2.60	22
BARTLESVILLE	548	3	78.9	30	1.9	97.	29	57.	13	0.0	0.0	418.0	58.0	5.571	30	1.48	2.02	6
BIXBY	782	3	78.4	29	1.5	95.	29	59.	12	0.0	0.0	388.0	27.0	2.550	30	-2.19	.78	4
BURBANK	1256	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.140	30	99.99	1.25	23
CHELSEA	1717	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.740	30	99.99	3.36	4
CLAREMORE	1828	3	77.8	29	1.5	94.	29	58.	12	0.0	0.0	372.0	33.0	5.660	30	1.03	2.11	6
CLEVELAND	1902	3	78.4	30	999.0	96.	30	58.	12	0.0	9999.0	401.0	9999.0	3.950	30	99.99	2.43	4
FORAKER	3250	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.460	30	-.73	1.00	3
HOLLOW	4258	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.360	30	-.22	1.76	28
HOMINY	4289	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.850	30	.70	2.45	4
JAY TOWER	4567	3	77.4	30	999.0	94.	18	58.	12	0.0	9999.0	372.0	9999.0	6.760	30	99.99	.95	28
KANSAS	4672	3	76.2	30	999.0	91.	29	54.	12	0.0	9999.0	336.0	9999.0	3.790	30	99.99	1.33	6
KEYSTONE DAM	4912	3	76.3	29	999.0	97.	27	58.	12	0.0	9999.0	328.5	9999.0	2.030	30	99.99	.53	4
LENAPAH	5118	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.931	30	99.99	.83	6
MANNFORD	5522	3	78.0	29	999.0	99.	27	55.	12	0.0	9999.0	377.5	9999.0	2.351	29	99.99	1.26	23
MARAMEC	5540	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.292	30	-.61	.93	9
MIAMI	5855	3	78.9	29	2.7	95.	28	54.	11	0.0	-7.0	404.0	61.0	5.940	30	1.06	2.73	27
NOWATA	6485	3	78.7	30	2.2	96.	22	59.	12	0.0	0.0	410.5	61.5	4.701	30	-.08	1.65	23
ONETA	6713	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.292	30	99.99	1.31	6
PAWHUSKA	6937	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.802	30	99.99	1.80	4
PAWNEE	6940	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.141	30	1.12	2.25	25
PRYOR	7309	3	74.0	27	-2.4	93.	29	48.	24	2.5	2.5	244.5	-102.5	4.223	30	-.45	1.22	9
QUAPAW	7358	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.150	30	-1.62	1.05	28
RALSTON	7390	3	79.6	30	999.0	98.	29	57.	12	0.0	9999.0	438.5	9999.0	2.230	30	-2.16	.95	6
RAMONA	7394	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.260	30	99.99	2.16	2
SKIATOOK	8258	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.930	30	1.62	1.15	2
SPAVINAW	8380	3	78.6	30	999.0	94.	30	61.	2	0.0	9999.0	408.0	9999.0	5.872	30	1.09	1.15	6
SPAVINAW LAKE AG	8382	3	78.1	30	999.0	94.	30	59.	6	0.0	9999.0	392.0	9999.0	6.632	30	99.99	1.15	6
TULSA	8992	3	79.7	30	2.0	96.	29	63.	12	0.0	0.0	442.0	61.0	4.272	30	-.30	1.35	23
UPPER SPAVINAW	9101	3	82.0	29	999.0	100.	25	59.	12	0.0	9999.0	493.0	9999.0	5.363	30	99.99	1.91	2
VINITA	9203	3	77.8	23	1.8	94.	22	58.	13	0.0	-7.0	294.0	-43.0	6.190	23	1.32	2.50	27
WAGONER	9247	3	78.9	30	1.7	95.	29	60.	20	0.0	0.0	417.5	51.5	3.851	30	-1.24	2.36	6
WANN	9298	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.870	30	99.99	2.76	6
WYNONA	9792	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.696	30	99.99	2.54	4

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

JUNE 1986 SUMMARY FOR NORTHWEST DIVISION (CD1)

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
ARNETT	332	1	75.6	29	-.1	97.	29	56.	12	0.0	-7.0	307.5	-20.5	3.495	30	.20	1.25	15
BOISE CITY	908	1	73.1	30	-.4	98.	30	51.	11	6.0	-4.0	249.0	-16.0	5.240	30	3.25	2.95	2
BUFFALO	1243	1	78.2	30	-.2	104.	30	54.	25	0.0	-6.0	396.0	-12.0	3.710	30	.11	1.35	2
FARGO	3070	1	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.370	30	2.16	1.67	7
GAGE	3407	1	75.5	30	-1.1	98.	30	51.	12	0.0	0.0	314.5	-38.5	3.853	29	1.08	1.38	15
GATE	3489	1	78.5	29	999.0	104.	28	55.	11	0.0	9999.0	391.5	9999.0	2.160	30	99.99	.73	1
GOODWELL	3628	1	74.3	29	-.3	100.	29	53.	11	.5	-10.5	271.5	-27.5	2.662	30	.36	.81	2
GUYMON	3835	1	75.9	29	999.0	102.	30	52.	11	.5	9999.0	316.5	9999.0	3.314	30	99.99	.79	9
HOOKER	4298	1	75.2	30	-.4	100.	30	55.	12	0.0	-10.0	305.5	-22.5	3.000	30	.05	.70	9
KENTON	4766	1	71.3	29	-2.4	96.	29	51.	11	11.5	-2.5	195.0	-80.0	4.160	30	2.34	1.86	2
LAVERNE	5045	1	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.680	30	.71	1.47	7
REGNIER	7534	1	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.900	30	3.10	1.84	2
TURPIN	9017	1	76.2	29	999.0	102.	29	45.	11	1.0	9999.0	327.0	9999.0	1.870	30	99.99	.53	9

JUNE 1986 SUMMARY FOR NORTH CENTRAL DIVISION (CD2)

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
ALVA	194	2	76.9	30	-1.2	100.	13	54.	12	0.0	-5.0	357.0	-41.0	4.130	30	.33	2.30	3
BILLINGS	755	2	78.1	29	999.0	99.	28	60.	12	0.0	9999.0	378.5	9999.0	7.042	30	2.93	1.96	15
BLACKWELL	818	2	79.4	30	999.0	102.	27	59.	12	0.0	9999.0	433.0	9999.0	4.231	30	99.99	1.47	7
BRAMAN	1075	2	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.812	29	99.99	2.02	23
CEDARDALE	1620	2	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.640	30	99.99	.88	23
ENID	2912	2	78.5	30	-.0	97.	29	59.	12	0.0	0.0	404.0	-1.0	7.090	30	2.97	1.85	23
FT SUPPLY DAM	3304	2	75.4	29	-1.5	95.	29	55.	12	0.0	-6.0	300.5	-62.5	3.810	30	.87	1.33	7
FREEDOM	3358	2	77.7	30	999.0	100.	29	55.	12	0.0	9999.0	379.5	9999.0	2.480	30	99.99	1.08	2
GREAT SALT PAINS	DA3740	2	78.3	29	999.0	98.	29	62.	16	0.0	9999.0	385.0	9999.0	6.660	27	3.17	1.67	3
HARDY	3909	2	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.443	30	99.99	1.92	22
HELENA	4019	2	78.2	29	999.0	99.	29	57.	12	0.0	9999.0	382.0	9999.0	5.284	30	1.33	1.77	16
JEFFERSON	4753	2	80.0	30	999.0	100.	28	56.	12	0.0	9999.0	449.0	9999.0	5.921	30	99.99	1.56	6
LAHOMA AG	4950	2	77.8	29	999.0	99.	29	59.	12	0.0	9999.0	370.5	9999.0	7.880	30	99.99	3.17	23
LAMONT	5013	2	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.110	30	99.99	1.16	7
MEDFORD	5768	2	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.521	30	99.99	1.33	2
MORRISON	6065	2	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.730	30	99.99	1.30	23
MUTUAL	6139	2	76.3	29	-.9	98.	29	56.	19	0.0	-6.0	327.0	-45.0	4.970	30	1.80	1.78	24
NEWKIRK	6278	2	78.5	30	1.0	97.	27	59.	12	0.0	0.0	404.5	29.5	7.952	30	3.36	1.91	2
ORIENTA	6751	2	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.760	30	99.99	.65	7
PERRY	7012	2	77.4	30	-.7	100.	27	54.	12	0.0	0.0	372.0	-21.0	5.220	30	1.09	1.87	15
PONCA CITY FAA	7201	2	80.1	29	2.9	100.	27	59.	12	0.0	0.0	439.0	73.0	4.181	28	.01	1.09	7
REDROCK	7505	2	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	7.010	30	2.98	1.82	23
RENFROW	7556	2	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.150	30	-.78	1.36	7
WAYNOKA	9404	2	77.3	29	-1.2	99.	30	53.	12	0.0	0.0	356.0	-49.0	3.100	30	-.65	1.09	3
WOODWARD	9760	2	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.360	30	-.78	.72	3

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

JUNE 1986 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	77.4	29	-.3	98.	29	55.	12	0.0	0.0	360.5	-20.5	2.570	29	-1.13	.67	3
CHEYENNE	1738	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.000	26	99.99	.90	7
CLINTON	1909	4	79.9	30	1.5	103.	28	58.	12	0.0	0.0	448.5	46.5	2.471	30	-.88	.53	17
COLONY	2039	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.321	30	99.99	1.62	10
CORDELL	2125	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	6.183	30	3.11	2.52	10
ELK CITY	2849	4	76.6	30	999.0	99.	15	55.	12	0.0	9999.0	349.0	9999.0	4.375	30	1.06	1.31	7
ERICK	2944	4	76.5	30	-1.2	97.	30	55.	13	0.0	0.0	345.0	-40.0	4.430	30	1.46	.91	2
GEARY	3497	4	76.8	27	-1.0	96.	28	60.	12	0.0	0.0	317.5	-66.5	5.230	28	1.42	2.60	14
HAMMON	3871	4	76.3	29	-1.8	100.	28	56.	13	0.0	-6.0	329.0	-70.0	5.750	30	2.79	2.25	2
LEEDEY	5090	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.610	30	1.37	1.12	7
MORAVIA	6035	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	7.030	30	4.04	2.03	21
OKEENE	6629	4	78.7	30	-.3	100.	28	58.	12	0.0	0.0	410.5	-9.5	3.070	30	-.90	1.10	15
RETROP	7565	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	11.471	30	99.99	4.10	10
REYDON	7579	4	78.1	20	999.0	98.	29	57.	12	0.0	9999.0	261.5	9999.0	2.670	26	-.64	.81	15
SAYRE	7952	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	6.061	30	2.89	1.75	2
SWEETWATER	8652	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.960	30	99.99	1.06	10
TALOGA	8708	4	78.0	30	.5	99.	29	59.	12	0.0	0.0	389.0	14.0	5.582	30	2.31	3.40	2
THOMAS	8815	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.920	30	99.99	1.76	15
VICI	9172	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.024	30	99.99	1.28	8
WATONGA	9364	4	77.5	30	999.0	98.	28	56.	12	0.0	9999.0	375.0	9999.0	4.671	30	.90	1.80	15
WEATHERFORD	9422	4	78.8	29	.5	103.	28	60.	24	0.0	0.0	401.0	2.0	4.103	29	.47	1.56	15

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

JUNE 1986 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	2.080	30	99.99	.47	15
ARCADIA	288	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.821	30	99.99	.85	15
TINKER AFB	325	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.443	30	99.99	.76	5
BLANCHARD	830	5	78.1	29	999.0	96.	28	60.	12	0.0	9999.0	378.5	9999.0	1.931	30	99.99	.60	10
BRISTOW	1144	5	78.9	30	1.7	99.	28	59.	12	0.0	0.0	417.0	51.0	2.041	30	-2.32	.77	4
CHANDLER	1684	5	78.3	30	.8	97.	28	61.	12	0.0	0.0	400.5	25.5	3.810	30	.01	1.83	16
CHICKSAHA	1750	5	79.5	30	.7	100.	28	58.	12	0.0	0.0	434.5	20.5	3.820	30	.73	1.23	15
COX CITY	2196	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.420	30	99.99	.53	14
CRESCENT	2242	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.642	30	99.99	.42	15
CUSHING	2318	5	78.7	29	1.8	98.	29	64.	2	0.0	0.0	398.5	36.5	2.121	30	-2.17	.70	9
EL RENO	2818	5	78.0	30	.6	99.	28	53.	15	0.0	0.0	389.0	17.0	6.090	30	2.46	1.80	24
GUTHRIE	3821	5	79.8	30	1.9	99.	29	58.	12	0.0	0.0	444.5	57.5	2.510	30	-1.45	1.06	2
HENNESSEY	4055	5	78.2	30	-.3	99.	27	57.	12	0.0	0.0	395.5	-9.5	7.663	30	3.76	3.43	15
INGALLS	4489	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.933	30	99.99	.87	7
KINGFISHER	4861	5	79.2	30	.7	100.	28	59.	12	0.0	0.0	427.5	19.5	2.930	30	-.83	.94	15
KONAWA	4915	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.180	30	.46	1.74	6
MARSHALL	5589	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.231	30	-1.77	.67	17
MEEKER	5779	5	77.5	29	.3	97.	29	60.	12	0.0	0.0	361.5	-4.5	4.230	30	.53	1.51	1
MULHALL	6110	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.950	30	99.99	1.54	23
NORMAN	6386	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.353	30	-.27	1.04	15
OILTON	6616	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.240	30	99.99	.46	23
OKEMAH	6638	5	78.6	30	1.5	96.	28	62.	12	0.0	0.0	408.0	45.0	3.540	30	-.93	1.10	26
OKLAHOMA CITY	6661	5	78.9	30	1.9	98.	28	64.	12	0.0	0.0	416.0	56.0	3.112	30	-.76	.70	21
PERKINS	7003	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.890	30	-.28	1.54	15
PIEDMONT	7068	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.791	30	99.99	1.51	15
PRAGUE	7264	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.011	30	-.77	1.11	6
PURCELL	7327	5	78.0	30	-.0	96.	28	57.	12	0.0	0.0	389.0	-1.0	7.200	30	3.61	1.45	17
SEMINOLE	8042	5	79.8	30	1.3	98.	28	61.	12	0.0	0.0	443.0	38.0	9.860	30	6.06	2.40	24
SHAWNEE	8110	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.421	30	-1.53	.47	17
STELLA	8479	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.740	30	99.99	1.58	2
STILLWATER	8501	5	76.7	29	-.3	96.	28	56.	13	0.0	0.0	339.0	-21.0	3.320	30	-.60	1.35	23
STROUD	8563	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.472	30	99.99	1.02	15
TECUMSEH	8751	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.872	30	99.99	.85	15
TROUSDALE	8960	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.830	30	99.99	1.20	6
UNION CITY	9086	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	6.110	29	1.90	2.03	24
WELTY	9479	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.891	30	99.99	.80	6
WEWOKA	9575	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.841	30	1.63	1.33	6

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

JUNE 1986 SUMMARY FOR EAST CENTRAL DIVISION (CD6)

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
MCALESTER	5664	6	78.5	30	.7	96.	27	63.	12	0.0	0.0	404.0	20.0	3.154	30	-.51	1.36	6
ASHLAND	364	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.561	30	99.99	.46	4
BEGGS	631	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.090	30	99.99	.87	11
BOYNTON	1027	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.252	30	99.99	1.65	6
CALVIN	1391	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.325	30	-2.21	.72	5
CHECOTAH	1711	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.562	30	-1.49	1.09	6
CLAYTON	1858	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	7.393	30	99.99	1.27	2
DEWAR	2485	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.830	30	-1.24	.69	1
DUSTIN	2690	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.410	30	99.99	.96	26
EUFAULA	2993	6	79.3	30	999.0	95.	27	62.	12	0.0	9999.0	428.0	9999.0	4.120	30	0.00	1.40	6
HANNA	3884	6	78.4	30	999.0	95.	29	60.	12	0.0	9999.0	402.5	9999.0	4.475	30	.49	1.95	4
HARTSHORNE	3946	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.463	30	99.99	1.20	17
HASKELL	3956	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.955	30	-.87	1.09	7
HOLDENVILLE	4235	6	77.8	30	.3	96.	28	60.	13	0.0	0.0	385.5	10.5	3.200	30	-.63	1.84	6
LAKE EUFAULA	4975	6	78.4	29	999.0	95.	29	64.	19	0.0	9999.0	389.5	9999.0	5.550	30	99.99	1.85	26
LYONS	5437	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.630	30	.17	2.10	5
MCCURTAIN	5693	6	78.3	30	999.0	93.	29	61.	19	0.0	9999.0	400.5	9999.0	6.984	30	2.70	2.05	6
MUSKOGEE	6130	6	79.1	30	1.6	95.	28	59.	12	0.0	0.0	422.0	47.0	2.830	30	-1.77	1.56	5
OKMULGEE WATER WORK	6670	6	78.0	30	.7	96.	29	59.	12	0.0	0.0	390.5	21.5	2.614	30	-2.10	.80	3
OKTAHA	6678	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.290	30	99.99	.97	2
QUINTON	7372	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.676	30	1.65	1.53	3
SALLISAW	7862	6	78.2	30	.8	93.	22	58.	12	0.0	0.0	397.0	25.0	4.082	30	-.25	1.11	6
SCIPIO	7979	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	7.000	30	99.99	2.26	5
SCRAPER	7993	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.100	30	99.99	1.00	7
SHORT	8170	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.971	30	99.99	1.27	28
STILWELL	8506	6	76.7	30	999.0	92.	29	58.	12	0.0	9999.0	350.5	9999.0	4.232	30	-.25	1.47	6
TAHLEQUAH	8677	6	77.8	30	1.7	95.	29	61.	19	0.0	0.0	383.5	50.5	5.231	30	.60	2.20	9
WEBBERS FALLS	9445	6	78.7	29	1.6	96.	27	60.	12	0.0	0.0	396.0	33.0	3.160	30	-.93	1.33	6
WESTVILLE	9523	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.422	30	99.99	.63	6
WETUMKA	9571	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.146	30	-2.17	.47	5

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

JUNE 1986 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	78.3	30	-2.2	100.	29	52.	5	0.0	0.0	400.5	-64.5	3.760	30	.82	1.27	5
ALTUS DAM	184	7	78.3	29	999.0	101.	28	57.	12	0.0	9999.0	385.0	9999.0	5.990	30	2.51	2.14	15
ANADARKO	224	7	77.8	30	-.7	99.	28	57.	12	0.0	0.0	383.5	-21.5	2.860	30	-.60	.95	10
ALTUS AFB	447	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.054	30	99.99	1.03	5
CARNEGIE	1504	7	78.3	30	-.9	100.	28	56.	12	0.0	0.0	400.0	-26.0	3.720	30	.64	1.03	10
CHATTANOOGA	1706	7	79.5	30	-.4	99.	28	60.	13	0.0	0.0	434.5	-12.5	2.661	30	-.14	.67	17
DUNCAN	2668	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.282	30	99.99	1.15	11
FLETCHER	3191	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.840	30	99.99	.85	17
FREDERICK	3353	7	79.7	29	-1.3	103.	29	62.	11	0.0	0.0	427.5	-52.5	2.894	30	-.06	1.40	17
GRANDFIELD	3709	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.190	30	1.01	2.28	15
HOBART	4204	7	78.5	27	-.4	101.	28	58.	12	0.0	0.0	364.5	-52.5	3.411	29	.51	1.65	10
HOLLIS	4249	7	79.2	30	-1.8	102.	28	59.	12	0.0	0.0	424.5	-55.5	6.752	30	3.77	3.90	5
LAWTON	5063	7	79.1	29	.1	99.	28	61.	12	0.0	0.0	410.0	-10.0	2.730	30	-.84	1.27	24
FORT SILL	5068	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.382	30	-.19	1.12	23
LOCO	5247	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	9.990	30	99.99	2.40	4
LOOKEBA	5329	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.430	30	99.99	1.03	17
MANGUM RS ST	5509	7	79.5	30	-.3	103.	29	58.	12	0.0	0.0	434.0	-10.0	4.950	30	2.10	2.23	22
RANDLETT	7403	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.922	28	99.99	1.75	10
ROOSEVELT	7727	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.740	30	.45	1.03	15
SEDAN	8016	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.641	30	99.99	1.25	10
SYNDER	8299	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.310	30	.43	1.56	15
VINSON	9212	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.650	30	2.82	1.75	23
WALTERS	9278	7	79.1	30	-.9	98.	28	59.	13	0.0	0.0	424.0	-26.0	3.981	30	.39	1.52	3
WICHITA MT WL REF	9629	7	77.5	29	-.2	99.	28	53.	12	0.0	0.0	362.0	-19.0	1.000	30	-2.46	.25	17
WILLOW	9668	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	11.121	30	99.99	5.30	10

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

JUNE 1986 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	78.1	30	.4	96.	29	59.	1	0.0	0.0	392.5	11.5	4.410	30	.68	2.30	17
ALLEN	147	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.230	30	99.99	1.20	4
ARDMORE	292	8	79.0	30	-1.3	95.	29	64.	12	0.0	0.0	420.5	-38.5	4.550	30	1.28	1.90	4
ATOKA DAM	394	8	79.6	28	999.0	96.	28	63.	12	0.0	9999.0	409.5	9999.0	5.860	30	99.99	2.31	5
BOKCHITO	917	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	10.180	30	99.99	4.65	9
CANEY	1437	8	78.3	29	999.0	96.	27	64.	2	0.0	9999.0	386.0	9999.0	6.680	30	99.99	1.86	5
CHICKASAW-NRA	1745	8	77.6	29	999.0	96.	28	57.	12	0.0	9999.0	365.5	9999.0	3.450	30	99.99	1.88	17
COMANCHE	2054	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.283	30	99.99	2.18	5
DAISY	2354	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.300	30	-2.18	.53	17
DURANT	2678	8	79.0	29	999.0	98.	28	63.	12	0.0	9999.0	406.5	9999.0	11.432	30	7.71	3.40	17
ELMORE CITY	2872	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.251	30	99.99	1.80	22
FARRIS	3083	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.990	30	99.99	1.00	11
GRADY	3688	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	7.580	30	99.99	3.29	5
HEALDTON	4001	8	78.8	30	999.0	96.	28	60.	12	0.0	9999.0	414.0	9999.0	5.570	30	1.86	1.64	17
HENNEPIN	4052	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.760	30	99.99	.91	17
KINGSTON	4865	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.880	30	2.26	2.15	5
LEHIGH	5108	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	8.725	30	99.99	2.80	2
LINDSAY	5220	8	78.7	29	999.0	98.	29	58.	12	0.0	9999.0	398.0	9999.0	3.650	30	99.99	1.28	16
MADILL	5468	8	79.2	30	.3	96.	28	64.	12	0.0	0.0	426.5	9.5	5.791	30	1.94	1.75	23
MARIETTA	5563	8	79.6	30	.9	97.	29	62.	12	0.0	0.0	437.0	26.0	5.631	30	2.00	1.81	5
MARLOW	5581	8	77.7	30	999.0	96.	28	57.	11	0.0	9999.0	382.0	9999.0	4.890	30	1.07	1.65	4
OSWALT	6787	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	8.460	30	99.99	4.00	4
PAULS VALLEY	6926	8	78.5	30	-1.0	94.	30	60.	12	0.0	0.0	405.0	-30.0	2.432	30	-.94	1.80	16
PONTOTOC	7214	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.870	30	1.32	1.73	4
TISHOMINGO	8884	8	78.5	16	999.0	98.	29	59.	12	0.0	9999.0	215.5	9999.0	6.710	21	3.25	2.88	17
TUSSY	9032	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.720	30	99.99	1.15	16
WAURIKA	9395	8	79.0	30	-1.1	97.	30	63.	12	0.0	0.0	421.0	-32.0	5.540	30	2.29	2.97	5

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

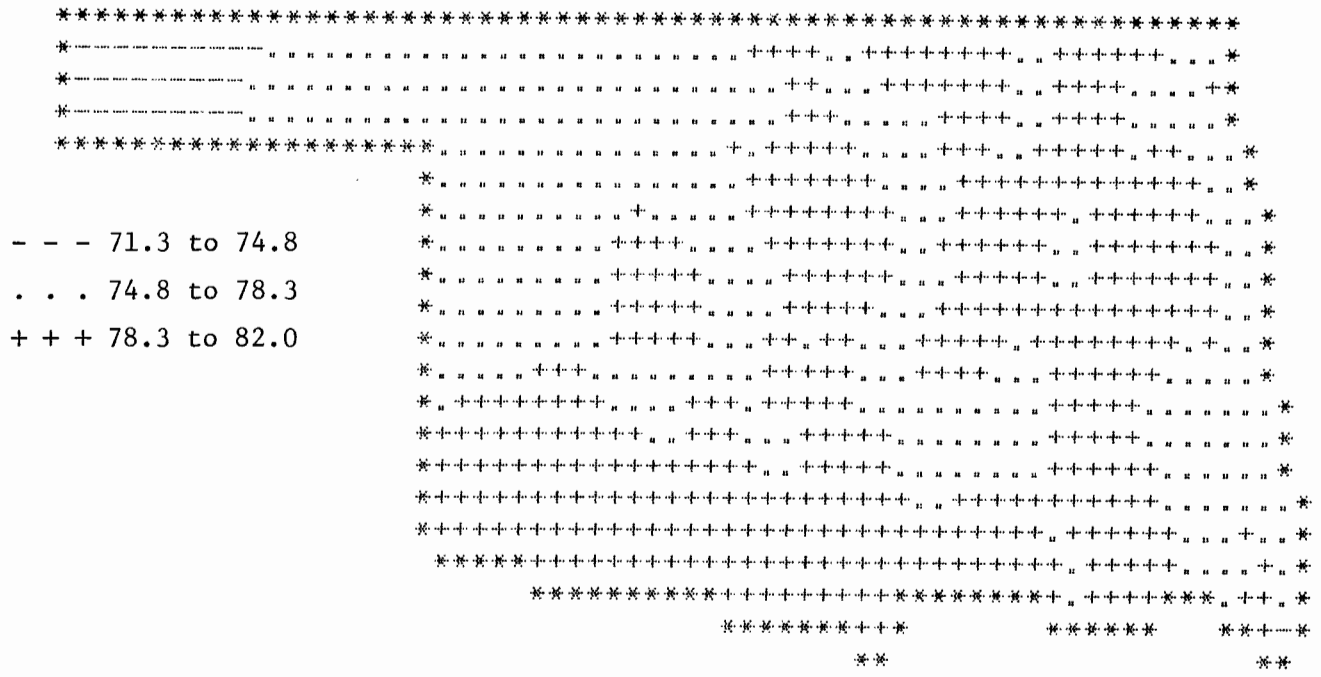
JUNE 1986 SUMMARY FOR SOUTHEASTERN DIVISION (CD9)

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	79.0	30	1.5	94.	29	60.	12	0.0	0.0	419.5	44.5	4.080	30	.11	1.23	16
BATTIEST	567	9	77.0	29	999.0	93.	27	58.	19	0.0	9999.0	348.0	9999.0	6.262	30	99.99	1.67	17
BEAR MT TW	584	9	77.0	29	999.0	98.	29	55.	12	0.0	9999.0	347.5	9999.0	6.181	30	2.56	1.65	2
BENGAL	670	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	10.050	30	99.99	2.47	6
BOSWELL	980	9	78.2	30	999.0	95.	28	61.	12	0.0	9999.0	394.5	9999.0	7.431	30	3.81	1.61	8
BROKEN BOW	1162	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	6.650	30	2.84	2.50	16
BROKEN BOW DAM	1168	9	78.4	29	999.0	97.	24	60.	20	0.0	9999.0	390.0	9999.0	2.640	30	99.99	.95	1
BUFFALO MT	1251	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	7.090	30	99.99	2.38	6
CARNASAW TOWER	1499	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.480	30	-.55	1.14	1
CARTER MT	1544	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	6.890	30	3.04	2.50	16
FANSHAWE	3065	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	6.610	30	2.40	2.33	6
HEAVENER	4008	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.910	30	.91	1.10	6
HUGO	4384	9	79.0	30	.3	95.	27	64.	12	0.0	0.0	419.0	8.0	5.100	30	.58	1.50	17
IDABEL	4451	9	78.6	29	.7	95.	27	64.	20	0.0	0.0	393.0	6.0	4.390	30	.70	1.62	1
JADIE TOWER	4560	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.120	30	99.99	2.49	4
HEE MT TOWER	4017	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	6.730	30	99.99	1.67	8
POTEAU WATER WORKS	7254	9	77.9	29	999.0	94.	28	58.	18	0.0	9999.0	375.5	9999.0	5.740	30	99.99	1.30	4
SMITHVILLE	8285	9	76.0	30	999.0	92.	27	55.	19	0.0	9999.0	330.0	9999.0	4.910	30	99.99	.76	11
SOBAL TOWER	8305	9	76.8	26	999.0	91.	30	64.	1	0.0	9999.0	306.0	9999.0	4.371	26	.41	1.81	1
SPIRO	8416	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.980	30	2.43	1.47	6
TUSKAHOMA	9023	9	78.2	30	999.0	93.	28	58.	12	0.0	9999.0	396.5	9999.0	13.001	30	99.99	2.90	3
VALLIANT	9118	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.013	30	1.31	1.62	1
WILBURTON	9634	9	78.1	30	1.1	96.	30	60.	20	0.0	0.0	391.5	31.5	10.081	30	6.14	2.80	5
WISTER DAM	9719	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	7.000	12	99.99	3.63	6
ZOE	9985	9	76.5	29	999.0	94.	27	56.	13	0.0	9999.0	332.5	9999.0	5.150	30	1.30	1.75	2

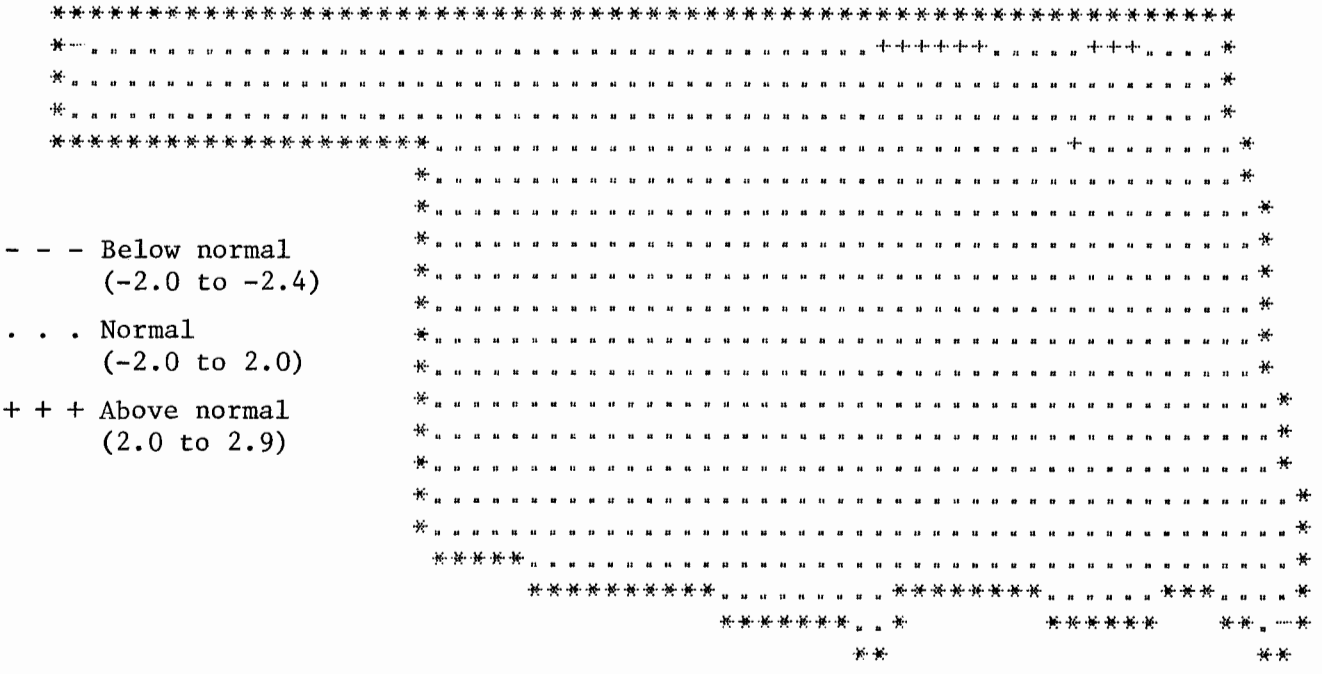
JUNE 1986 CLIMATE DIVISION SUMMARY

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	75.4	10	-.1	104.0	28	45.0	11	2.0	-6.3	307.4	-14.9	3.65	13	.98	2.95	2
2	78.0	15	.2	102.0	27	53.0	12	0.0	-2.1	382.5	-2.1	4.94	25	1.13	3.17	23
3	78.2	18	1.5	100.0	25	48.0	24	.1	-1.4	390.4	36.7	4.45	33	-.07	3.36	4
4	77.7	10	-.4	103.0	28	55.0	13	0.0	-.8	372.5	-20.6	4.52	21	1.15	4.10	10
5	78.5	15	.9	100.0	28	53.0	15	0.0	0.0	402.8	21.9	3.66	37	-.24	3.43	15
6	78.3	12	1.0	96.0	27	58.0	12	0.0	0.0	395.8	28.5	3.96	30	-.32	2.26	5
7	78.7	12	-.9	103.0	29	52.0	5	0.0	0.0	404.2	-33.6	4.25	25	1.09	5.30	10
8	78.7	13	-.5	98.0	29	57.0	11	0.0	0.0	404.9	-21.1	5.50	26	1.85	4.65	9
9	77.8	12	.0	98.0	29	55.0	19	0.0	0.0	378.1	-5.1	5.98	24	2.09	3.63	6

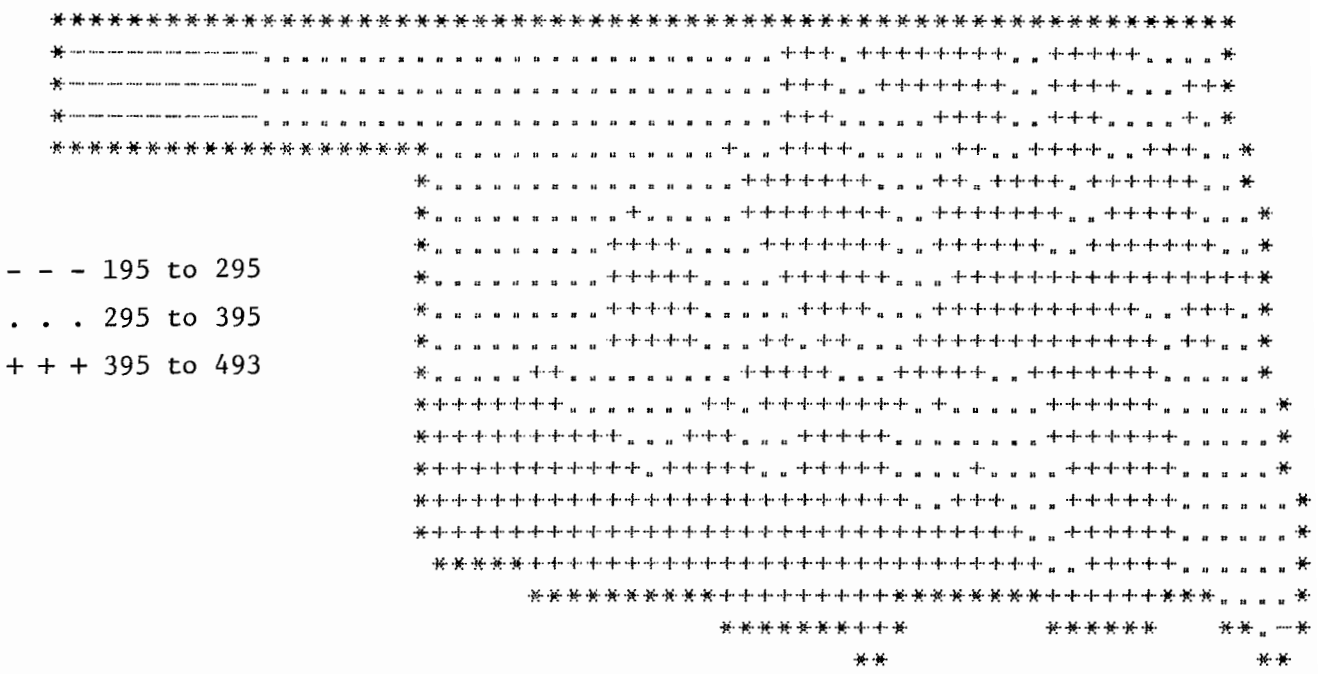
NOTE: 9999.0, 999.0, 99.99 indicate missing records.
Trace = .001



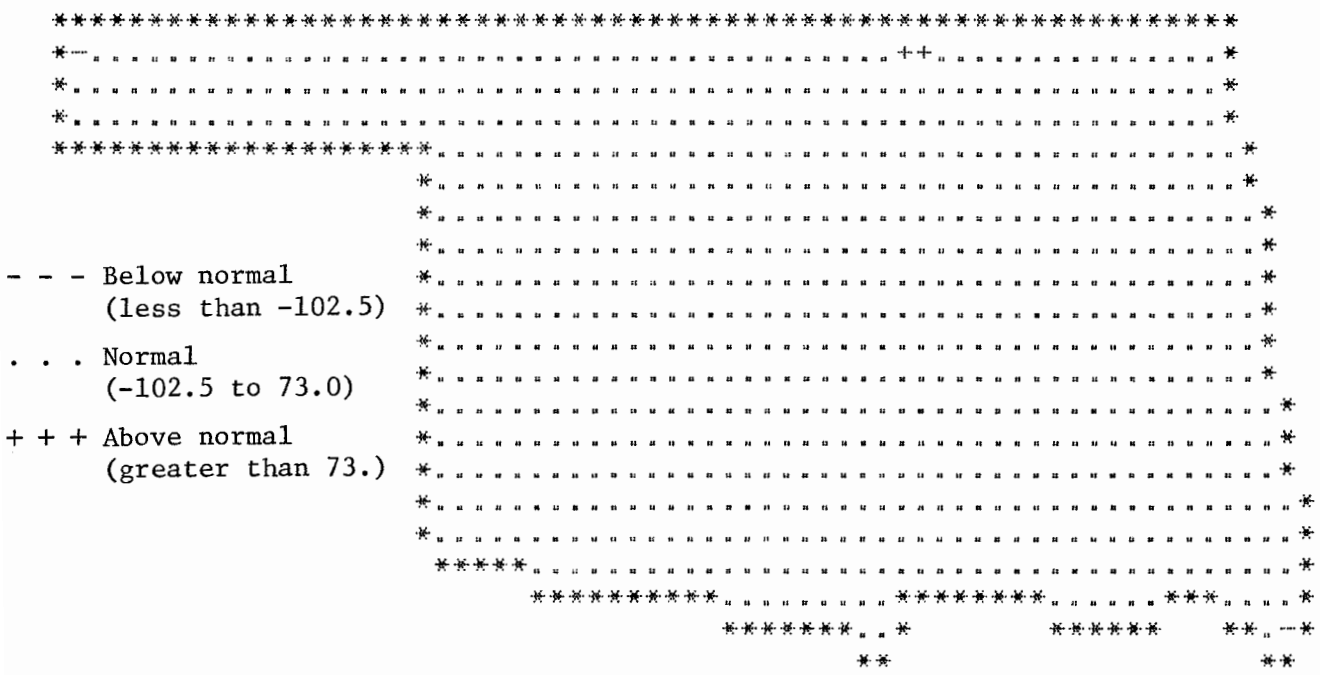
JUNE 1986 AVERAGE MONTHLY TEMPERATURE
(DEGREES F)



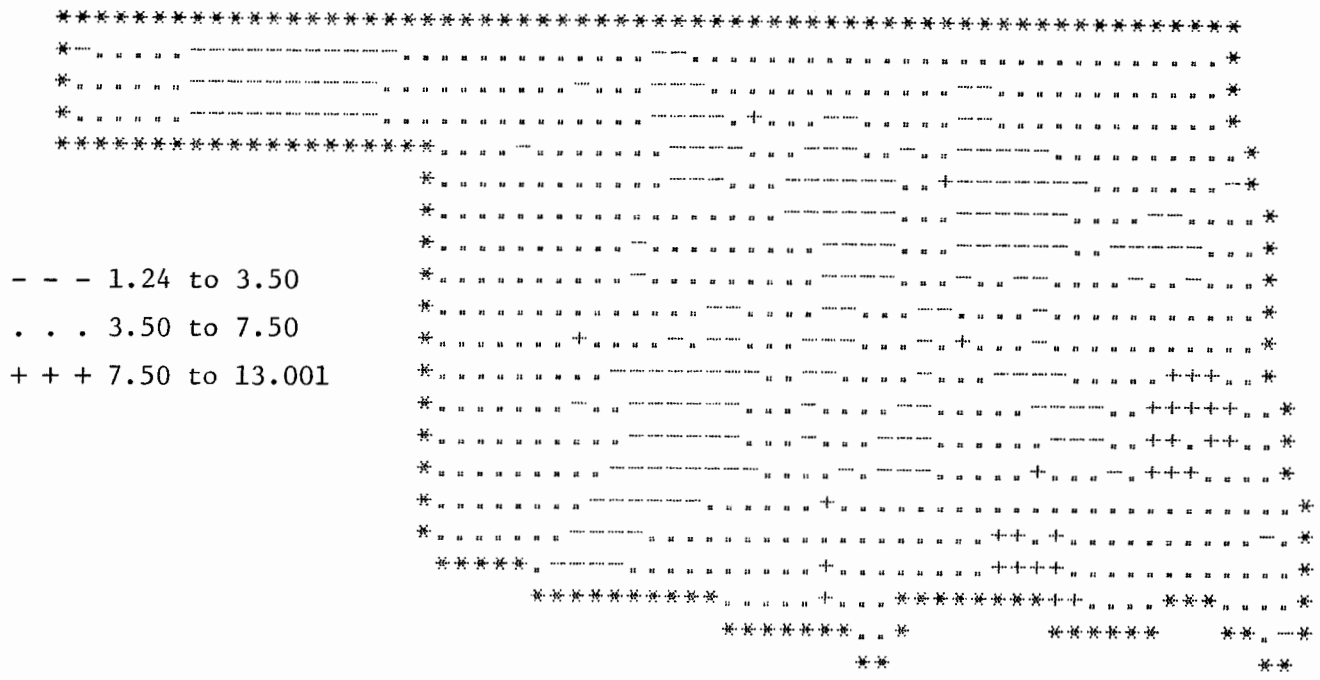
JUNE 1986 DEVIATION FROM NORMAL TEMPERATURE



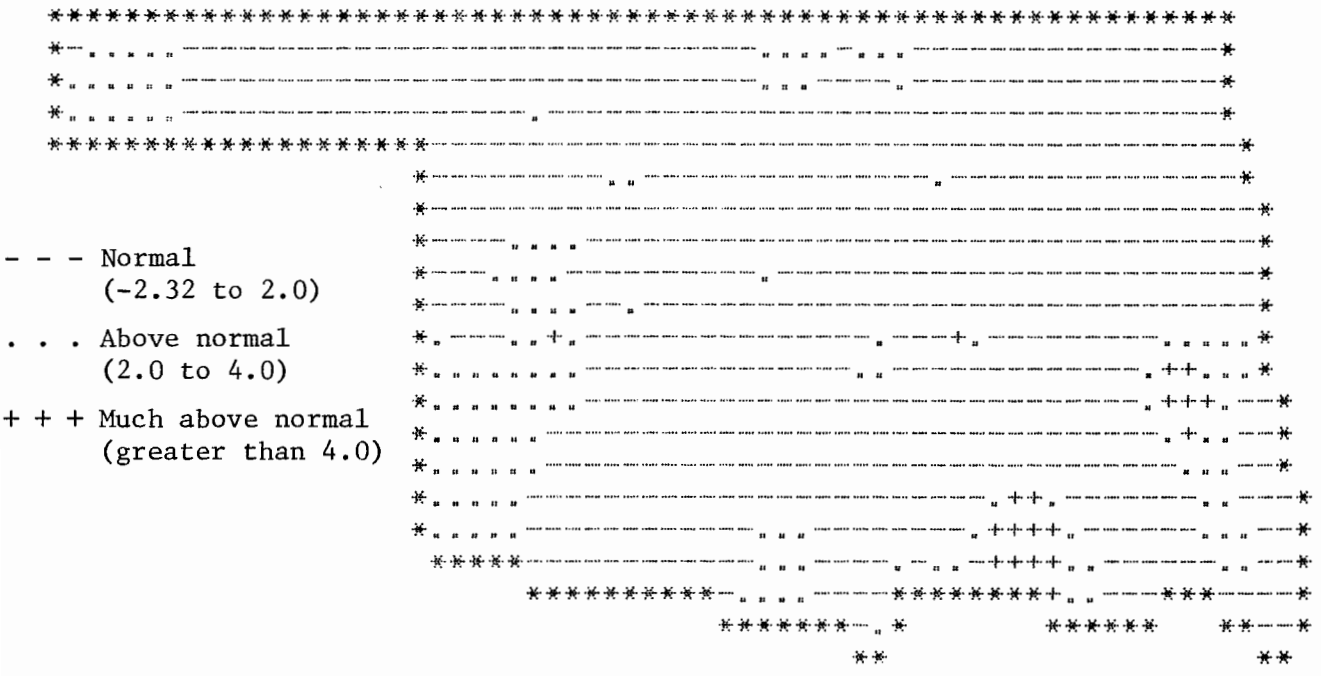
JUNE 1986 TOTAL COOLING DEGREE DAYS



JUNE 1986 DEVIATION FROM NORMAL COOLING DEGREE DAYS



JUNE 1986 TOTAL PRECIPITATION
(INCHES)



JUNE 1986 DEVIATION FROM NORMAL PRECIPITATION

AUGUST 1986
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).

Normal	1	Actual
92.9	max	
69.8	min	
.051	pcpn	
0	HDD	
17	CDD	
Highest Max		108-1930
Lowest Max		73-1930
Lowest Min		58-1971
Highest Min		83-1934
Greatest pcpn		.52-1950

Normal	2	Actual
93.0	max	
69.9	min	
.039	pcpn	
0	HDD	
17	CDD	
Highest Max		110-1980
Lowest Max		82-1973
Lowest Min		57-1971
Highest Min		81-1932
Greatest pcpn		1.01-1927

Normal	3	Actual
94.0	max	
70.3	min	
.019	pcpn	
0	HDD	
17	CDD	
Highest Max		106-1930
Lowest Max		78-1927
Lowest Min		59-1973
Highest Min		80-1943
Greatest pcpn		.47-1933

Normal	4	Actual
92.0	max	
70.1	min	
.073	pcpn	
0	HDD	
16	CDD	
Highest Max		104-1937
Lowest Max		75-1978
Lowest Min		58-1973
Highest Min		82-1980
Greatest pcpn		1.32-1985

Normal	5	Actual
94.4	max	
70.8	min	
.021	pcpn	
0	HDD	
18	CDD	
Highest Max		106-1964
Lowest Max		81-1978
Lowest Min		60-1949
Highest Min		79-1970
Greatest pcpn		.60-1976

Normal	6	Actual
95.1	max	
71.2	min	
.093	pcpn	
0	HDD	
18	CDD	
Highest Max		106-1929
Lowest Max		76-1971
Lowest Min		62-1949
Highest Min		80-1962
Greatest pcpn		1.38-1965

Normal	7	Actual
94.6	max	
70.8	min	
.116	pcpn	
0	HDD	
18	CDD	
Highest Max		107-1946
Lowest Max		84-1971
Lowest Min		60-1957
Highest Min		82-1951
Greatest pcpn		2.15-1939

Normal	8	Actual
94.4	max	
70.4	min	
.099	pcpn	
0	HDD	
18	CDD	
Highest Max		106-1970
Lowest Max		78-1939
Lowest Min		61-1957
Highest Min		82-1951
Greatest pcpn		1.27-1952

Normal	9	Actual
93.8	max	
69.4	min	
.121	pcpn	
0	HDD	
17	CDD	
Highest Max		109-1936
Lowest Max		75-1927
Lowest Min		59-1974
Highest Min		80-1970
Greatest pcpn		1.19-1974

Normal	10	Actual
93.6	max	
70.0	min	
.116	pcpn	
0	HDD	
17	CDD	
Highest Max		112-1936
Lowest Max		76-1929
Lowest Min		64-1959
Highest Min		81-1936
Greatest pcpn		1.18-1977

Normal	11	Actual
93.0	max	
69.1	min	
.030	pcpn	
0	HDD	
16	CDD	
Highest Max		113-1936
Lowest Max		73-1968
Lowest Min		59-1931
Highest Min		82-1936
Greatest pcpn		.75-1929

Normal	12	Actual
92.7	max	
68.4	min	
.047	pcpn	
0	HDD	
16	CDD	
Highest Max		110-1936
Lowest Max		81-1964
Lowest Min		56-1967
Highest Min		83-1936
Greatest pcpn		.55-1961

Normal	13	Actual
92.9	max	
69.2	min	
.080	pcpn	
0	HDD	
16	CDD	
Highest Max		107-1936
Lowest Max		80-1971
Lowest Min		54-1967
Highest Min		83-1936
Greatest pcpn		1.24-1968

Normal	14	Actual
92.9	max	
70.2	min	
.106	pcpn	
0	HDD	
17	CDD	
Highest Max		106-1956
Lowest Max		76-1985
Lowest Min		60-1967
Highest Min		79-1943
Greatest pcpn		1.43-1971

Normal	15	Actual
92.6	max	
70.2	min	
.267	pcpn	
0	HDD	
17	CDD	
Highest Max		107-1956
Lowest Max		77-1940
Lowest Min		61-1963
Highest Min		81-1954
Greatest pcpn		2.69-1945

Normal	16	Actual
93.5	max	
70.8	min	
.027	pcpn	
0	HDD	
17	CDD	
Highest Max		107-1956
Lowest Max		79-1964
Lowest Min		64-1963
Highest Min		81-1934
Greatest pcpn		1.42-1981

Normal	17	Actual
92.9	max	
70.2	min	
.036	pcpn	
0	HDD	
17	CDD	
Highest Max		105-1956
Lowest Max		76-1932
Lowest Min		62-1942
Highest Min		82-1934
Greatest pcpn		.93-1932

Normal	18	Actual
92.0	max	
69.4	min	
.170	pcpn	
0	HDD	
16	CDD	
Highest Max		103-1984
Lowest Max		78-1927
Lowest Min		57-1943
Highest Min		81-1934
Greatest pcpn		2.87-1966

Normal	19	Actual
90.4	max	
68.5	min	
.101	pcpn	
0	HDD	
15	CDD	
Highest Max		106-1934
Lowest Max		75-1927
Lowest Min		56-1932
Highest Min		80-1936
Greatest pcpn		.87-1977

Normal	20	Actual
90.9	max	
68.2	min	
.055	pcpn	
0	HDD	
15	CDD	
Highest Max		104-1934
Lowest Max		67-1950
Lowest Min		56-1950
Highest Min		81-1934
Greatest pcpn		1.38-1937

Normal	21	Actual
91.7	max	
67.8	min	
.141	pcpn	
0	HDD	
15	CDD	
Highest Max		103-1984
Lowest Max		80-1951
Lowest Min		51-1956
Highest Min		81-1934
Greatest pcpn		1.40-1983

Normal	22	Actual
90.1	max	
67.9	min	
.037	pcpn	
0	HDD	
14	CDD	
Highest Max		101-1936
Lowest Max		76-1961
Lowest Min		56-1956
Highest Min		79-1948
Greatest pcpn		3.17-1934

Normal	23	Actual
90.3	max	
67.8	min	
.091	pcpn	
0	HDD	
14	CDD	
Highest Max		105-1980
Lowest Max		70-1966
Lowest Min		59-1949
Highest Min		78-1936
Greatest pcpn		2.27-1934

Normal	24	Actual
91.1	max	
68.2	min	
.057	pcpn	
0	HDD	
15	CDD	
Highest Max		105-1963
Lowest Max		73-1966
Lowest Min		55-1961
Highest Min		78-1936
Greatest pcpn		.75-1972

Normal	25	Actual
91.4	max	
68.0	min	
.033	pcpn	
0	HDD	
15	CDD	
Highest Max		102-1936
Lowest Max		72-1934
Lowest Min		58-1966
Highest Min		78-1936
Greatest pcpn		1.81-1934

Normal	26	Actual
91.5	max	
67.4	min	
.026	pcpn	
0	HDD	
15	CDD	
Highest Max		101-1938
Lowest Max		76-1934
Lowest Min		55-1962
Highest Min		78-1936
Greatest pcpn		.42-1948

Normal	27	Actual
91.5	max	
68.4	min	
.045	pcpn	
0	HDD	
15	CDD	
Highest Max		103-1984
Lowest Max		80-1946
Lowest Min		58-1944
Highest Min		78-1936
Greatest pcpn		1.53-1941

Normal	28	Actual
90.8	max	
68.5	min	
.088	pcpn	
0	HDD	
15	CDD	
Highest Max		104-1982
Lowest Max		76-1944
Lowest Min		52-1944
Highest Min		78-1938
Greatest pcpn		1.28-1959

Normal	29	Actual
90.3	max	
68.4	min	
.089	pcpn	
0	HDD	
15	CDD	
Highest Max		106-1984
Lowest Max		70-1935
Lowest Min		57-1931
Highest Min		75-1937
Greatest pcpn		2.33-1935

Normal	30	Actual
90.6	max	
68.0	min	
.011	pcpn	
0	HDD	
15	CDD	
Highest Max		105-1947
Lowest Max		74-1968
Lowest Min		54-1946
Highest Min		75-1956
Greatest pcpn		1.32-1928

Normal	31	Actual
88.9	max	
66.8	min	
.222	pcpn	
0	HDD	
13	CDD	
Highest Max		104-1947
Lowest Max		73-1976
Lowest Min		57-1968
Highest Min		76-1952
Greatest pcpn		2.35-1966