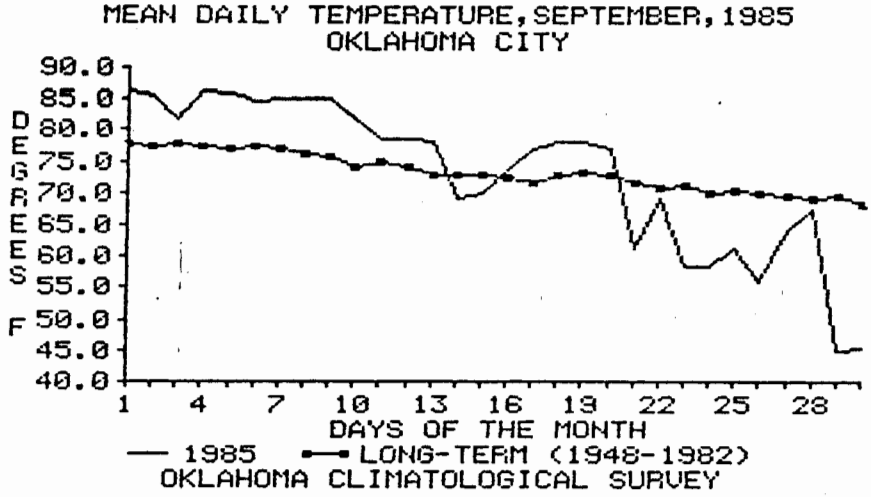
The Oklahoma Climatological Survey was established with its own budget and offices in the spring of 1980. The mission of the Survey is to provide a climatological archiving and information service to the State of Oklahoma. Although as many as 160 stations may appear in any one Summary, it may not be 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 SEPTEMBER 1985

September 1985 illustrates how rapidly the seasons can change in Oklahoma. Early September continued the series of extremely hot days, which began the end of August. This warm period extended through early September with no significant precipitation reports. But by month's end, most of the State was experiencing abnormally cool temperatures and locally heavy rainfall. National Climatic Data Center figures place the likelihood of temperatures at or below 32 degrees in the Panhandle and north central portions of the State prior to October at less than 1 in 10. That is, we would expect these or cooler temperatures this early in the Fall fewer than 10 times in 100 years. Historical temperature records also indicate these temperatures arrived 3 to 4 weeks earlier than normally expected (mid- to late-October). The lowest temperature in the State, 27 degrees, was reported on September 30 at Guymon. The result of this wide variation in temperatures throughout September is nearly normal mean monthly temperatures but above normal total energy cost, reflected by total degree days (heating plus cooling). The pattern of mean daily temperatures at Oklahoma City during September 1985 and their relationship to long term average conditions is provided in the figure below and is "typical" for the State.



Two daily temperature records were tied in Oklahoma City (1924 to present), two new records were set and one new 24-hour precipitation record was set (see table below).

Oklahoma City Daily Data Reports
for September, 1985

Date	Record	Previous Record	Year	New Record
23	24-hour precipitation	.54"	1968	.71"
24	lowest daily min temp	48	1942	46
*29	lowest daily max temp	47	1945	
30	highest daily max temp	57	1945	54
*30	highest daily min temp	37	1972	

* Tied record.

September precipitation was above normal in all but east central, south central and southeastern portions of the State. New total monthly precipitation records for September were set at Goodwell, Fargo, Woodward and Reydon. Drought indices indicate improved moisture conditions in southeastern Oklahoma. Protracted drought conditions are not anticipated for any other portions of the State (information provided by Climate Analysis Center, NOAA).

Sunday, September 8, thunderstorms containing from 60 to 85 mph winds were reported near Clinton. Two funnels were sited during the storm but storm damage was attributed to high winds. The Clinton Municipal Airport manager reported recording a wind speed of 88 mph at 7:20 pm. A second day of thunderstorms was reported on Monday, September 9. High winds, hail and heavy rain moved through east central Oklahoma. Wind gusts up to 70 mph were reported in Henryetta between 5 and 6 pm. Locally high winds and heavy rains continued through Tuesday, September 10 when a thunderstorm containing 50 mph winds and heavy rain moved through the area of Davis Air Field at Muskogee, in northeastern Oklahoma.

Rains soaked much of Oklahoma on Friday, September 13. The 24-hour maximum precipitation event was reported at Chelsea in northeastern Oklahoma where 4.92 inches of rain were reported. Reports of high winds accompained most precipitation observations. Wind gusts up to 63 mph were reported on the east side of Altus in southwestern Oklahoma.

Violent weather again moved into the State the evening of September 22. Severe thunderstorm warnings were issued for Cotton and Comache Counties as a storm system pushed northward from north Texas into southwestern Oklahoma. The town of Geronimo reported tennis ball-size hail and 60 mph winds in association with the heavy thunderstorms. 54 mph winds were reported at Lawton. Norman reported lightning, 40 mph winds and golfball to baseball-size hail. Two tornadoes were spotted south of the northwestern Oklahoma town of Cherokee which resulted in some locally heavy damage.

The month ended on a chilly note when temperatures dropped into the 30's. The Panhandle reported snow mixed with freezing rain on the 29th. The cold front which preceded these cool temperatures also brought hours of steady rain to most sections of the State. Southwestern Oklahoma reported brief torrential downpours and pea-size hail.

TABLE OF 1984/1985 SEPTMBER COMPARISONS

Station	September Temperatures (F) 1984	1985	September Precipitation (in.) 1984	1985
Goodwell	67.2	67.6	1.345	7.273
Lahoma	71.2	72.8	.461	3.640
Mutual	70.6	69.9	.500	4.480
Tulsa	71.7	75.0	2.771	3.292
Elk City	70.6	71.6	.222	2.743
Oklahoma City	71.4	73.1	1.017	4.592
McAlester	72.3	74.8	4.943	3.350
Altus Irr. Sta.	73.7	76.7	.341	4.711
Durant	74.1	76.9	1.010	1.981
Ada	73.6	75.3	2.230	2.672
Tuskahoma	71.9	76.2	7.721	3.570

SEPTEMBER EXTREMES

Variable	Station	Division	Observation	Date
Minimum temperature (F)	Boise City	1	25	30
Maximum temperature (F)	Atoka Dam	8	112	7
Maximum 24-hour precipitation	Chelsea	3	4.92"	14

An Analysis of Operational Weather Modification Activities in Oklahoma

The Oklahoma Climatological Survey recently completed a study assessing the effectiveness of a group of weather modification projects in southwestern Oklahoma. The study pertained to operations conducted in Cotton County during the 1976 to 1978 growing seasons and in Cotton, Tillman, Kiowa, and Comanche Counties at various times in 1981 and 1982. Clouds were seeded with silver iodide crystals released from ground level in an effort to increase rainfall. All activities were conducted by a private contractor paid with funds raised by local sponsoring groups. The contractor was licensed by the Oklahoma Water Resources Board which also provided permits for the project as required under state law. No operations were conducted in the area during 1979 and 1980.

The results of the study, while not conclusive, did indicate that the average rainfall over and downwind of the targeted counties was approximately 10% greater than in the surrounding unseeded area on days when rain fell in both areas. The increased rainfall in the target area appears to have occurred on days with light to moderate rainfall. Further study indicated that the rainfall advantage observed did not appear during periods when no seeding operations were active. The apparent rain increase cannot definitely be ascribed to cloud seeding in the absence of confirming physical or statistical evidence.

A study by the Illinois State Water Survey of a similar activity in northwestern Oklahoma (1976-1982) failed to uncover any evidence of increased rainfall in the targeted areas. Some evidence of an increase in rainfall downwind of that target area was obtained.

The evaluation of the cloud seeding projects in southwestern Oklahoma was commissioned by the Oklahoma Water Resources Board. Copies of the report by OCS to the OWRB, "An Evaluation of Operational Weather Projects in Oklahoma", by Howard L. Johnson, Clement J. Todd and Robert Sladewski, may be obtained from OCS.

NEW PUBLICATION

The first in a series of Oklahoma Climatological Summaries, CLIMOCS, is being released this month by OCS. CLIMOCS is a summary of all Oklahoma stations having any data between 1954 and 1983 and is designed to update and complement the 1985 NOAA/NESDIS/NCDC publication "Climatography of the United States, No. 20 (1951 - 1980)." CLIMOCS contains climatological summary tables of monthly mean and extremes for nearly 300 cooperative stations (see example which follows). CLIMOCS is available for the entire State of Oklahoma at a cost of $10.00 per copy or .10 cents per station requested plus postage. Similar information is available for other states. Please contact OCS for price information. Price will vary with the number of stations available in each state.

In addition to the tables provided in CLIMOCS, monthly and annual summaries for the 30-year period for each cooperative station are available. These summaries contain means and totals for each month and year for temperature (if observed), precipitation and snowfall. Please contact the Survey for cost estimates.

ADA (3400017)

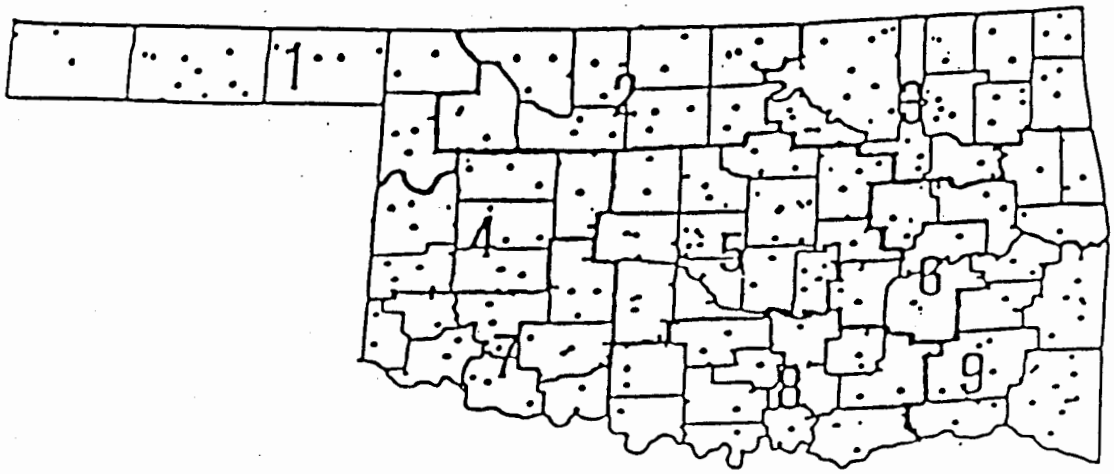
CLIMATOLOGICAL SUMMARY

MEANS AND EXTREMES FOR THE PERIOD 1954 TO 1983

MONTH	TEMPERATURE (DEG F)													PRECIPITATION TOTALS (IN)															
	MEANS			EXTREMES						MEAN NUMBER OF DAYS										SNOW, SLEET						MEAN NUMBER OF DAYS			
										MAX		MIN																	
	DAILY MAXIMUM	DAILY MINIMUM	MONTHLY	RECORD HIGHEST	YEAR	DAY	RECORD LOWEST	YEAR	DAY	90 and ABOVE	32 and BELOW	32 and BELOW	0 and BELOW	MEAN	GREATEST MONTHLY	YEAR	GREATEST DAILY	YEAR	DAY	MEAN	MAXIMUM MONTHLY	YEAR	GREATEST DEPTH	YEAR	DAY	0.10 or MORE	0.50 or MORE	1.00 or MORE	GLAZE DAYS
JAN	50.1	28.0	39.1	79	57	9	-2	62	10	0	3	20	0	1.45	3.95	68	1.68	68	19	1.6	10.0	77	8.0	77	9	3	0	0	2
FEB	56.1	32.4	44.2	85	56	24	0	78	18	0	1	14	0	1.91	4.25	75	2.52	83	1	1.7	14.0	78	5.0	78	7	3	1	0	1
MAR	64.5	40.1	52.3	95	74	31	9	60	3	0	0	7	0	2.75	8.05	73	3.14	77	27	0.8	8.0	68	8.0	68	12	4	2	0	0
APR	74.6	50.7	62.7	98	72	12	22	75	3	0	0	0	0	3.60	9.11	57	3.08	63	27	0.0	0.0	54	0.0	0	0	5	2	0	0
MAY	80.6	58.4	69.5	99	67	11	34	54	3	1	0	0	0	6.28	14.61	57	5.37	83	14	0.0	0.0	54	0.0	0	0	7	3	2	0
JUN	87.8	66.1	77.0	105	80	28	47	54	4	12	0	0	0	4.07	10.78	73	3.05	57	15	0.0	0.0	54	0.0	0	0	5	2	1	0
JUL	94.0	71.3	82.7	108	54	12	0	55	14	24	0	0	0	2.46	7.83	59	2.28	75	27	0.0	0.0	54	0.0	0	0	3	1	0	0
AUG	93.5	69.3	81.4	110	64	5	52	67	12	23	0	0	0	3.08	8.86	58	3.94	58	21	0.0	0.0	55	0.0	0	0	3	1	1	0
SEP	86.3	62.6	74.4	103	56	16	39	72	30	11	0	0	0	4.24	11.24	70	4.72	70	23	0.0	0.0	54	0.0	0	0	4	2	1	0
OCT	76.6	51.9	64.3	97	63	4	24	57	27	1	0	0	0	4.27	12.42	70	5.80	70	8	0.0	0.0	54	0.0	0	0	4	2	1	0
NOV	63.6	40.4	52.0	86	55	13	10	76	29	0	0	6	0	2.51	6.86	73	2.80	64	19	0.2	3.0	80	3.0	80	17	3	1	0	0
DEC	54.0	32.0	43.0	85	55	24	-2	83	24	0	1	16	0	1.92	5.15	71	2.33	62	20	0.6	8.5	58	6.0	75	25	3	1	0	1
YEAR	73.5	50.3	61.9							72	5	63	0	38.54						5.0						47	18	6	4

NOTE: MISSING VALUES ARE INDICATED BY 999.

SOURCE: THE OKLAHOMA CLIMATOLOGICAL SURVEY, NORMAN, OKLAHOMA



EXPLANATION OF TABLES

Two kinds of tables appear in this summary. The first is a set of tables containing all reporting stations grouped by climate division. The figure above 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 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 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.

SEPTEMBER 1985 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	70.9	29	.0	100.	7	30.	30	84.0	53.0	256.0	48.0	3.791	30	1.88	2.40	21
BEAVER	593	1	71.5	29	.6	104.	3	29.	30	88.0	57.0	277.5	69.5	3.831	30	2.31	1.10	19
BOISE CITY	908	1	65.5	30	-2.6	95.	1	25.	30	135.5	98.5	150.5	20.5	3.473	30	1.91	1.05	11
BUFFALO	1243	1	72.7	30	-.4	105.	7	30.	30	84.0	65.0	316.5	51.5	4.320	30	1.52	1.10	11
FARGO	3070	1	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.720	30	3.90	2.80	21
GAGE	3407	1	70.8	30	-.5	99.	7	31.	30	103.5	77.5	278.5	63.5	4.986	30	3.39	2.72	21
GATE	3489	1	68.7	27	999.0	105.	4	31.	29	114.0	9999.0	215.0	9999.0	3.375	30	99.99	1.42	10
GOODWELL RES STA.	3628	1	67.6	29	-1.9	99.	1	28.	30	120.5	81.5	195.5	21.5	7.273	30	6.00	2.94	12
HOOKER	4298	1	68.8	30	-1.1	101.	1	30.	30	123.0	94.0	236.5	60.5	9.070	30	7.45	3.04	19
KENTON	4766	1	65.9	29	-3.0	97.	1	28.	30	126.0	94.0	151.5	2.5	1.890	30	.38	.70	12
LAVERNE	5045	1	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.271	30	1.26	.83	11
GUYMON	3835	1	68.9	30	999.0	103.	1	27.	30	122.5	9999.0	239.5	9999.0	6.921	30	99.99	2.85	12
REGNIER	7534	1	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.553	30	1.14	1.34	11
TURPIN	9017	1	69.7	29	999.0	101.	3	30.	30	103.0	9999.0	238.0	9999.0	4.000	30	99.99	.86	29

SEPTEMBER 1985 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	71.6	30	-1.6	102.	7	32.	30	88.5	68.5	287.0	21.0	6.150	30	3.68	2.48	23
BILLINGS	755	2	73.9	29	999.0	105.	1	35.	30	48.5	9999.0	306.0	9999.0	4.770	30	.55	1.05	29
BLACKWELL	818	2	73.1	30	999.0	107.	1	36.	30	67.5	9999.0	309.5	9999.0	3.905	30	99.99	.97	23
BRAMAN	1075	2	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.294	30	99.99	1.18	23
CEDARDALE	1620	2	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.530	30	99.99	1.63	11
CHEROKEE POWER PLAN	1724	2	74.9	30	1.4	106.	4	35.	30	62.0	47.0	358.0	88.0	5.720	30	3.05	1.95	23
ENID	2912	2	71.4	30	-2.4	102.	1	33.	30	86.0	71.0	278.0	-1.0	4.500	30	1.29	1.39	21
FORT SUPPLY DAM	3304	2	71.0	29	-1.2	102.	7	31.	30	83.0	58.0	257.5	16.5	5.463	30	3.49	2.09	21
FREEDOM	3358	2	72.8	30	999.0	102.	3	31.	30	73.0	9999.0	308.0	9999.0	5.180	30	99.99	3.09	21
GREAT SALT PLAINS	D3740	2	72.1	29	999.0	104.	4	34.	30	84.5	9999.0	289.0	9999.0	6.167	30	3.19	2.87	23
HARDY	3909	2	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	8.392	30	99.99	1.91	13
HELENA	4019	2	72.8	29	999.0	103.	8	36.	30	70.0	9999.0	297.0	9999.0	5.700	30	2.83	1.65	21
JEFFERSON	4573	2	73.8	30	.2	105.	1	33.	30	67.0	52.0	331.5	58.5	5.603	30	2.47	1.39	20
MEDFORD	5768	2	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.463	30	99.99	1.60	20
LAHOMA AG	4950	2	72.8	27	999.0	107.	1	34.	30	60.0	9999.0	269.5	9999.0	3.640	28	99.99	2.03	22
LAMONT	5013	2	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.031	30	99.99	1.02	23
MORRISON	6065	2	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.790	30	99.99	1.58	23
MUTUAL	6139	2	69.9	26	-2.4	102.	5	31.	30	87.5	69.5	216.0	-21.0	4.480	30	2.00	2.75	21
NEWKIRK	6278	2	73.1	30	.3	103.	1	34.	30	56.0	34.0	299.5	43.5	4.910	30	1.37	1.15	13
ORIENTA	6751	2	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.930	30	99.99	.72	25
PERRY	7012	2	73.3	30	-.9	105.	1	33.	30	58.5	43.5	306.5	15.5	5.690	30	1.95	1.58	23
PONCA CITY	7201	2	74.0	30	1.7	106.	1	37.	30	66.0	38.0	337.0	90.0	4.013	30	.17	1.35	23
RED ROCK	7505	2	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.550	30	-.17	1.10	23
RENFROW	7556	2	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.851	30	2.64	1.40	11
WAYNOKA	9404	2	72.2	30	-1.2	101.	4	31.	30	63.5	47.5	279.0	11.0	5.720	30	3.22	1.82	23
WOODWARD	9760	2	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	6.431	30	4.40	3.57	21

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

SEPTEMBER 1985 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	78.5	22	999.0	109.	1	39.	30	21.5	9999.0	318.0	9999.0	8.081	25	3.36	2.75	23
BARTLESVILLE	548	3	74.0	30	1.2	106.	1	39.	30	45.5	27.5	314.5	62.5	6.241	30	2.11	2.11	14
BIXBY	7820	3	73.7	28	999.0	106.	2	42.	27	48.5	9999.0	292.0	9999.0	4.230	28	99.99	1.25	25
BURBANK	1256	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	6.460	30	99.99	1.91	23
CHELSEA	1717	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	8.210	30	99.99	4.92	14
CLAREMORE	1828	3	74.0	29	1.3	107.	1	43.	30	38.0	12.0	298.0	41.0	5.411	30	1.53	1.92	14
CLEVELAND	1902	3	74.7	27	999.0	107.	1	37.	30	44.0	9999.0	306.5	9999.0	3.090	27	99.99	1.14	12
FORAKER	3250	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	6.420	30	2.34	2.05	23
HOLLOW	4258	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.981	30	1.14	2.29	23
HOMINY	4289	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.820	30	.34	1.64	23
HULAH DAM	4393	3	71.7	15	-.3	102.	8	39.	30	39.5	10.5	139.5	-99.5	7.530	29	3.70	2.00	29
JAY TOWER	4567	3	73.4	30	999.0	101.	1	41.	26	42.0	9999.0	295.0	9999.0	4.220	30	99.99	1.37	14
KANSAS	4672	3	71.2	30	999.0	97.	1	41.	30	49.5	9999.0	235.0	9999.0	3.575	30	99.99	.95	14
KEYSTON DAM	4812	3	72.9	29	999.0	105.	4	39.	30	44.0	9999.0	272.0	9999.0	5.560	30	99.99	1.50	23
LENAPAH	5118	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	6.291	30	99.99	2.04	14
MANNFORD	5522	3	75.1	30	999.0	107.	1	38.	30	47.0	9999.0	348.5	9999.0	5.450	30	99.99	1.24	23
MARAMEC	5540	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.320	30	1.40	1.32	23
MIAMI	5855	3	70.3	29	-2.3	99.	7	31.	30	69.0	42.0	224.0	-31.0	4.201	30	-.40	.98	22
NOWATA	6485	3	73.3	29	.4	107.	1	42.	30	55.5	34.5	295.0	37.0	8.170	30	3.86	2.93	14
ONETA	6713	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.922	30	99.99	1.02	25
PAWHUSKA	6937	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	6.431	30	99.99	2.00	14
PAWNEE	6940	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.860	30	.49	.90	23
PRYOR	7309	3	72.3	29	-.3	104.	1	42.	27	43.5	19.5	255.5	3.5	6.721	30	2.56	2.97	14
QUAPAW	7358	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.032	30	-.77	.98	23
RALSTON	7390	3	73.4	30	999.0	107.	1	36.	30	50.0	9999.0	302.5	9999.0	6.070	30	2.21	1.75	10
RAMONA	7394	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	6.200	30	99.99	1.54	23
SKIATOOK	8258	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	6.571	30	2.24	1.27	23
SPAVINAW	8380	3	74.9	30	999.0	105.	1	40.	26	38.0	9999.0	335.5	9999.0	3.513	30	-.87	1.07	14
SPAVINAW LAKE	8382	3	76.7	28	999.0	105.	2	40.	27	18.5	9999.0	346.5	9999.0	3.263	28	99.99	1.07	14
TULSA	8992	3	75.0	30	1.2	105.	1	43.	30	37.5	19.5	338.0	56.0	3.292	30	-1.08	.96	14
UPPER SPAVINAW	9101	3	75.5	29	999.0	101.	4	40.	27	29.0	9999.0	333.0	9999.0	4.021	30	99.99	1.76	14
VINITA	9203	3	74.0	30	1.7	102.	1	40.	24	32.5	5.5	301.5	55.5	5.540	30	.79	1.37	14
WAGONER	9247	3	74.9	30	1.0	102.	1	44.	30	42.0	25.0	338.5	54.5	5.390	30	1.30	2.44	14
WANN	9298	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	6.051	25	99.99	2.95	14
WYNONA	9792	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	6.111	30	99.99	1.17	29

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

SEPTEMBER 1985 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	74.2	28	.8	102.	8	33.	30	51.5	36.5	309.0	42.0	2.901	28	-.23	1.05	29
CHEYENNE	1738	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.400	30	99.99	1.30	29
CLINTON	1909	4	75.5	30	1.9	106.	8	38.	30	49.5	33.5	365.5	91.5	4.312	30	1.31	1.66	29
COLONY	2039	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.110	30	99.99	2.62	29
CORDELL	2125	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.990	30	1.19	2.67	29
ELK CITY	2849	4	71.6	30	999.0	98.	8	32.	30	70.0	9999.0	267.5	9999.0	2.743	30	.16	1.44	21
ERICK	2944	4	73.5	30	.4	101.	9	34.	30	59.0	46.0	313.5	57.5	3.450	30	.64	1.91	29
GEARY	3497	4	73.6	30	-.2	103.	1	36.	30	49.5	30.5	307.5	24.5	4.350	30	1.13	2.30	29
HAMMON	3871	4	73.0	29	.5	101.	8	32.	30	64.0	42.0	297.0	50.0	3.020	30	.31	2.00	21
LEEDEY	5090	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.201	30	1.97	2.35	21
MORAVIA	6035	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.710	30	-.06	1.12	29
OKEENE	6629	4	75.2	30	.9	105.	4	35.	30	54.0	37.0	359.5	63.5	5.550	30	2.62	2.01	21
RETROP	7565	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.210	30	99.99	1.86	29
REYDON	7579	4	71.7	25	999.0	100.	8	31.	30	69.5	9999.0	236.0	9999.0	5.740	30	3.40	3.30	21
SAYRE	7952	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.410	30	.97	1.08	21
SWEETWATER	8652	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.290	30	99.99	3.65	21
TALOGA	8708	4	73.1	30	.5	103.	5	31.	30	59.5	40.5	303.0	56.0	2.331	30	-.30	1.01	21
THOMAS	8815	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.030	30	99.99	1.30	21
WATONGA	9364	4	73.5	30	999.0	103.	1	35.	30	67.0	9999.0	321.5	9999.0	2.964	30	.01	1.59	29
WEATHERFORD	9422	4	74.8	29	1.1	105.	3	33.	30	55.5	40.5	341.0	65.0	2.493	30	-.79	1.66	29

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

SEPTEMBER 1985 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	4.010	30	99.99	1.88	29
ARCADIA	288	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.121	30	99.99	2.00	23
BLANCHARD	830	5	74.8	30	999.0	102.	1	37.	30	41.0	9999.0	335.0	9999.0	6.510	30	99.99	2.35	14
BRISTOW	1144	5	74.5	30	.8	107.	1	40.	30	41.0	19.0	325.5	42.5	3.541	30	-.46	1.16	24
CHANDLER	1684	5	71.6	22	-2.5	101.	9	38.	30	41.5	23.5	187.5	-103.5	4.501	22	.71	1.50	25
CHICKASHA S C RES.	1750	5	75.0	30	1.1	104.	1	37.	30	55.5	42.5	355.0	75.0	4.270	30	.79	2.48	29
COX CITY	2196	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.270	30	99.99	2.25	22
CRESCENT	2242	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.961	30	99.99	1.76	14
CUSHING	2318	5	73.6	29	.0	104.	1	37.	30	48.5	28.5	298.0	20.0	6.110	30	2.22	1.20	14
EL RENO	2818	5	72.2	30	-1.2	103.	1	35.	30	49.5	34.5	264.5	-2.5	6.090	30	2.48	2.40	29
GUTHRIE	3821	5	76.0	30	1.9	106.	1	38.	30	30.5	15.5	360.5	72.5	6.290	30	2.31	2.22	23
HENNESSEY	4055	5	72.1	30	-1.8	104.	1	35.	30	77.0	63.0	289.0	8.0	4.990	30	1.60	1.65	29
INGALLS	4489	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.641	30	99.99	1.64	25
KINGFISHER	4861	5	73.8	30	-.3	104.	1	37.	30	61.0	47.0	326.5	36.5	5.920	30	2.32	1.86	29
KINGFISHER CREEK	4862	5	74.1	29	999.0	103.	3	37.	30	43.0	9999.0	308.0	9999.0	5.920	30	99.99	1.86	29
UNCLE JOHNS CREEK	K4864	5	73.9	29	999.0	103.	3	37.	30	47.0	9999.0	305.0	9999.0	5.920	30	99.99	1.86	29
KONAWA	4915	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.181	30	.06	1.25	30
MARSHALL	5589	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.340	30	1.83	1.30	14
MEEKER 5W	5779	5	74.0	28	.3	104.	1	38.	30	44.5	27.5	297.0	19.0	7.040	28	3.18	2.36	22
MULHALL	6110	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.120	30	99.99	.89	25
NORMAN	6386	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.401	30	1.67	2.37	14
OILTON	6616	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.710	31	99.99	1.44	23
OKEMAH	6638	5	75.8	30	1.7	107.	1	42.	30	36.0	19.0	361.0	71.0	3.270	30	-.53	.95	25
OKLAHOMA CITY	6661	5	73.1	30	-.2	102.	1	37.	30	69.5	54.5	312.0	48.0	4.592	30	1.18	1.84	14
PERKINS	7003	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.650	30	1.43	1.73	23
PIEDMONT	7068	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	6.972	30	99.99	2.41	23
PRAGUE	7265	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.440	30	99.99	1.00	25
PURCELL	7327	5	75.5	30	1.3	104.	2	39.	30	35.5	23.5	351.0	63.0	5.212	30	1.24	2.00	14
SEMINOLE	8042	5	76.7	30	1.5	105.	1	43.	30	29.5	19.5	379.0	63.0	4.000	30	-.02	1.03	14
SHAWNEE	8110	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.240	30	-.50	1.37	29
STILLWATER	8501	5	74.1	29	1.0	105.	4	37.	30	57.0	39.0	321.0	60.0	5.991	30	2.06	1.33	25
STROUD	8563	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.083	30	99.99	1.52	11
STELLA	8479	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.190	30	99.99	1.57	29
TECUMSEH	8751	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.681	30	99.99	.72	23
TROUSDALE	8960	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.090	30	99.99	1.07	23
UNION CITY	9086	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.900	30	1.14	2.99	29
WELTY	9479	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.870	30	99.99	1.20	30
WEWOKA	9575	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.221	30	-.90	.93	30
TINKER AFB	325	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.601	29	99.99	1.28	14

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

SEPTEMBER 1985 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
ASHLAND	364	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.350	30	99.99	.66	23
BEGGS	631	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.540	30	99.99	1.25	29
BOYNTON	1027	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.330	30	99.99	1.00	25
CALVIN	1391	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.320	30	-1.00	.87	23
CHECOTAH	1711	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.072	30	-1.39	.93	30
CLAYTON	1858	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.950	30	99.99	1.50	29
DEWAR	2485	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.423	30	.11	.96	26
DUSTIN	2690	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.620	30	99.99	1.23	25
EUFUALA	2993	6	74.1	21	999.0	96.	10	48.	27	6.5	9999.0	198.0	9999.0	3.721	21	-.48	1.00	25
HANNA	3884	6	74.8	30	999.0	105.	1	42.	27	40.0	9999.0	333.5	9999.0	3.601	30	-.56	.95	30
HARTSHORNE	3946	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.910	30	99.99	.75	30
HASKELL	3956	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.740	30	-1.23	1.23	25
LAKE EUFAULA	4975	6	74.8	29	999.0	104.	2	43.	27	30.0	9999.0	315.5	9999.0	4.020	30	99.99	.77	25
LYONS	5437	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.552	30	-.71	1.25	13
MCALESTER	5664	6	74.8	30	.6	102.	1	44.	30	35.0	19.0	328.0	36.0	3.530	30	-1.43	.92	26
MCCURTAIN	5693	6	75.4	30	999.0	104.	1	40.	30	29.0	9999.0	342.0	9999.0	6.532	30	2.07	3.65	14
HOLDENVILLE	4235	6	74.8	30	.3	104.	1	42.	30	38.0	27.0	333.5	34.5	2.770	30	-1.23	.80	30
MUSKOGEE	6130	6	74.7	30	.5	105.	1	43.	30	61.0	44.0	350.5	57.5	4.331	30	.21	1.50	29
OKMULGEE WATER WORK	6670	6	75.3	30	1.8	105.	5	40.	27	38.0	22.0	347.0	76.0	3.453	30	-.35	1.20	29
OKTAHA	6678	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.001	30	99.99	.78	25
QUINTON	7372	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.121	30	-1.29	.70	29
SALLISAW 2NE	7862	6	74.3	29	.1	100.	4	41.	27	28.5	18.5	298.0	12.0	3.633	30	-.78	.92	30
SCIPIO	7979	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.760	30	99.99	.95	13
SCRAPER	7993	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.590	30	99.99	3.04	14
SHORT 1	8170	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.111	30	99.99	.98	30
STILWELL	8506	6	72.3	30	999.0	97.	1	40.	30	51.5	9999.0	270.5	9999.0	3.077	30	-1.23	.72	25
TAHLEQUAH	8677	6	73.2	30	.3	102.	1	40.	26	50.0	26.0	294.5	33.5	5.990	30	1.65	2.00	14
WEBBERS FALLS 5 WSW	9445	6	74.4	29	.9	102.	3	42.	25	37.5	22.5	311.0	41.0	4.870	30	.53	1.19	14
WESTVILLE	9523	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.632	30	99.99	1.03	25
WETUMKA	9571	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.385	30	-.63	1.33	30

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

SEPTEMBER 1985 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 RSCH STA	179	7	76.7	30	1.3	103.	4	38.	30	25.5	18.5	375.5	56.5	4.711	30	1.86	2.25	29
ANADARKO	224	7	75.1	27	.6	103.	1	35.	30	40.0	27.0	313.5	15.5	4.940	27	1.60	4.08	29
ALTUS AFB	447	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.152	30	99.99	2.15	29
CARNEGIE 2ENE	1504	7	75.4	30	1.0	103.	4	36.	30	40.5	26.5	352.5	56.5	5.231	30	1.87	3.85	29
CHATTANOOGA	1706	7	77.0	30	1.3	106.	1	39.	30	31.0	23.0	391.5	62.5	3.680	30	.61	2.41	29
DUNCAN 12W	2668	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.330	30	99.99	1.73	29
FLETCHER	3191	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	6.192	30	99.99	3.75	29
FREDERICK	3353	7	76.2	29	-.4	105.	3	38.	30	28.0	21.0	354.0	-1.0	5.150	30	2.15	4.00	29
GRANDFIELD	3709	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.760	30	.31	1.60	14
HOBART	4204	7	74.9	30	1.1	104.	3	36.	30	64.0	48.0	360.5	80.5	4.250	30	1.38	2.44	29
HOLLIS	4249	7	76.4	28	1.1	103.	3	37.	30	32.5	26.5	353.0	38.0	3.820	29	1.14	2.47	30
LAWTON	5063	7	74.6	29	-.5	104.	3	38.	30	41.5	35.5	318.5	9.5	6.770	30	3.79	3.60	29
FORT SILL	5068	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	6.191	30	3.21	3.61	29
LOCO	5247	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.842	30	99.99	1.76	14
LOOKEBA	5329	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.790	30	99.99	2.83	29
MANGUM RS ST	5509	7	75.9	30	1.0	108.	4	36.	30	43.5	37.5	371.0	68.0	4.030	30	1.25	2.82	29
ROOSEVELT	7727	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.130	30	2.35	4.16	29
SEDAN	8016	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.890	30	99.99	2.08	14
SNYDER	8299	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.071	30	2.26	2.93	29
VINSON	9212	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.190	30	1.32	1.68	20
WALTERS	9278	7	77.0	30	.8	107.	1	38.	30	26.0	13.0	385.5	36.5	2.370	30	-.89	.97	29
WICHITA MT WL REF	9629	7	72.7	29	-1.0	103.	3	35.	30	60.5	47.5	282.5	8.5	6.360	30	3.25	2.70	29
WILLOW	9668	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.220	30	99.99	1.33	29

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

SEPTEMBER 1985 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	75.3	30	.7	104.	1	42.	30	31.5	19.5	339.5	39.5	2.672	30	-1.34	1.05	29
ALLEN	147	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.540	30	99.99	.95	23
ARDMORE	292	8	77.3	30	.1	106.	1	44.	30	23.5	23.5	393.5	22.5	2.941	30	-.99	1.94	14
ATOKA DAM	394	8	77.3	29	999.0	112.	7	47.	30	17.5	9999.0	375.5	9999.0	1.700	30	99.99	.70	12
BOKCHITO	917	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.760	30	99.99	.82	30
CANEY	1437	8	76.8	6	999.0	100.	1	42.	30	7.5	9999.0	78.5	9999.0	1.250	8	99.99	1.20	29
CENTRAHOMA	1648	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.690	30	99.99	.45	28
CHICKASAW NAT'L REC	1745	8	76.6	29	999.0	107.	1	43.	30	19.0	9999.0	355.5	9999.0	2.640	30	99.99	.90	14
COMANCHE	2054	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.420	30	99.99	1.52	29
DAISY 4 ENE	2354	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.060	30	-1.64	1.56	12
DUNCAN	2660	8	75.4	29	-.3	102.	1	39.	30	26.5	18.5	327.0	-2.0	3.821	28	.17	2.22	30
DURANT USDA	2678	8	76.9	29	999.0	107.	1	44.	24	13.0	9999.0	357.0	9999.0	1.981	30	-3.63	.75	30
ELMORE CITY	2872	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.384	30	99.99	1.85	19
FARRIS	3083	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.120	30	99.99	1.70	11
GRADY	3688	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.190	30	99.99	1.78	29
HENNEPIN	4052	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.390	30	99.99	2.07	13
KINGSTON	4865	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.090	30	-2.58	.72	30
LEHIGH	5108	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.842	30	99.99	.60	30
MADILL	5468	8	76.9	30	1.0	106.	1	44.	30	25.5	18.5	383.0	49.0	2.580	30	-2.02	.90	30
MARIETTA	5563	8	77.7	30	1.8	107.	1	44.	30	20.0	10.0	401.0	64.0	3.290	30	-.70	1.57	29
MARLOW	5581	8	75.4	30	999.0	103.	1	37.	30	38.0	9999.0	351.5	9999.0	4.840	30	1.18	1.79	29
OSWALT	6787	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.750	30	99.99	3.00	14
PAULS VALLEY	6926	8	76.1	30	.5	105.	1	41.	30	32.0	23.0	364.0	37.0	7.772	30	4.10	3.50	13
PONTOTOC	7214	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.750	30	-2.37	1.10	29
TISHOMINGO	8884	8	75.0	18	999.0	106.	2	41.	24	16.5	9999.0	196.0	9999.0	2.120	22	-2.75	1.50	30
TUSSY	9032	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.761	30	99.99	1.04	23
WAURIKA	9395	8	76.9	30	.4	104.	1	40.	30	23.0	17.0	380.5	29.5	1.830	30	-1.57	1.47	29

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

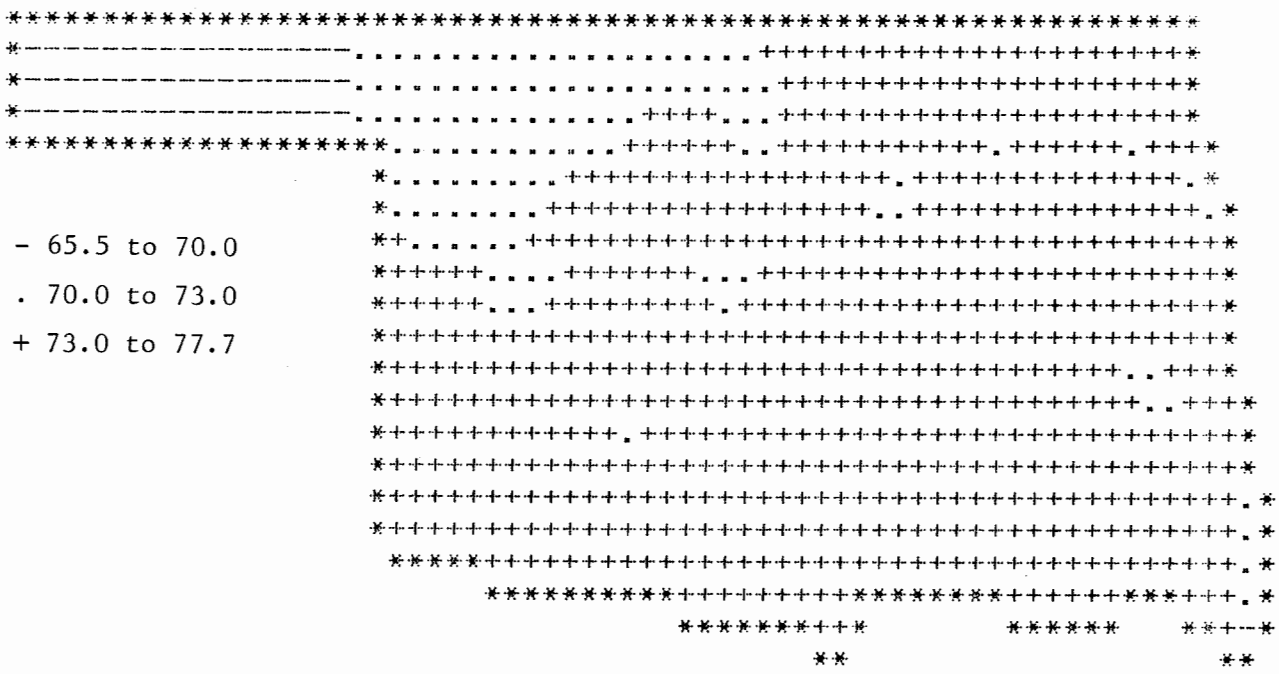
SEPTEMBER 1985 SUMMARY FOR SOUTHEAST DIVISION (CD9)

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	75.2	30	.8	110.	1	39.	27	30.5	21.5	335.5	44.5	6.250	30	.98	2.22	12
BATTIEST	567	9	73.9	30	999.0	106.	1	36.	27	35.0	9999.0	302.0	9999.0	4.742	30	99.99	2.52	30
BEAR MT.	584	9	76.8	27	999.0	108.	3	41.	27	20.5	9999.0	339.5	9999.0	6.272	27	1.03	3.20	12
BOSWELL	980	9	75.5	30	999.0	106.	1	43.	30	22.0	9999.0	338.0	9999.0	4.614	30	-.30	1.56	8
BENGAL	670	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.760	30	99.99	2.58	14
BROKEN BOW	1162	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.210	30	-2.51	1.03	13
BROKEN BOW DAM	1168	9	75.3	29	999.0	108.	1	39.	27	22.5	9999.0	321.5	9999.0	2.714	30	99.99	.86	13
BUFFALO MT. TOWER	1251	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.970	30	99.99	1.07	13
CARNASAW TOWER	1499	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.900	30	-2.09	.92	13
CARTER MT.	1544	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.600	30	-.36	1.15	10
HEE MT. TOWER	4017	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.132	30	99.99	1.05	30
HUGO	4384	9	75.0	30	-.8	108.	1	40.	27	27.0	27.0	326.0	-2.0	2.170	30	-2.98	.98	12
IDABEL	4451	9	75.3	29	.4	107.	1	42.	28	20.5	14.5	320.0	17.0	3.571	30	-.96	1.59	14
JADIE TOWER	4560	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.250	30	99.99	.61	30
SMITHVILLE	8285	9	70.9	25	999.0	105.	1	33.	26	42.0	9999.0	189.5	9999.0	3.690	25	99.99	1.20	29
SOBEL TOWER	8305	9	73.8	30	999.0	104.	1	44.	30	32.5	9999.0	295.5	9999.0	4.220	30	-1.20	2.15	13
TUSKAHOMA	9023	9	76.2	30	999.0	107.	1	37.	27	32.5	9999.0	369.0	9999.0	3.570	30	99.99	1.21	30
VALLIANT	9118	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.100	30	.12	1.62	13
WILBURTON	9634	9	70.4	30	-3.3	105.	1	35.	27	76.0	60.0	238.0	-39.0	5.700	30	.76	1.80	11
WISTER DAM	9717	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.040	19	99.99	1.14	30

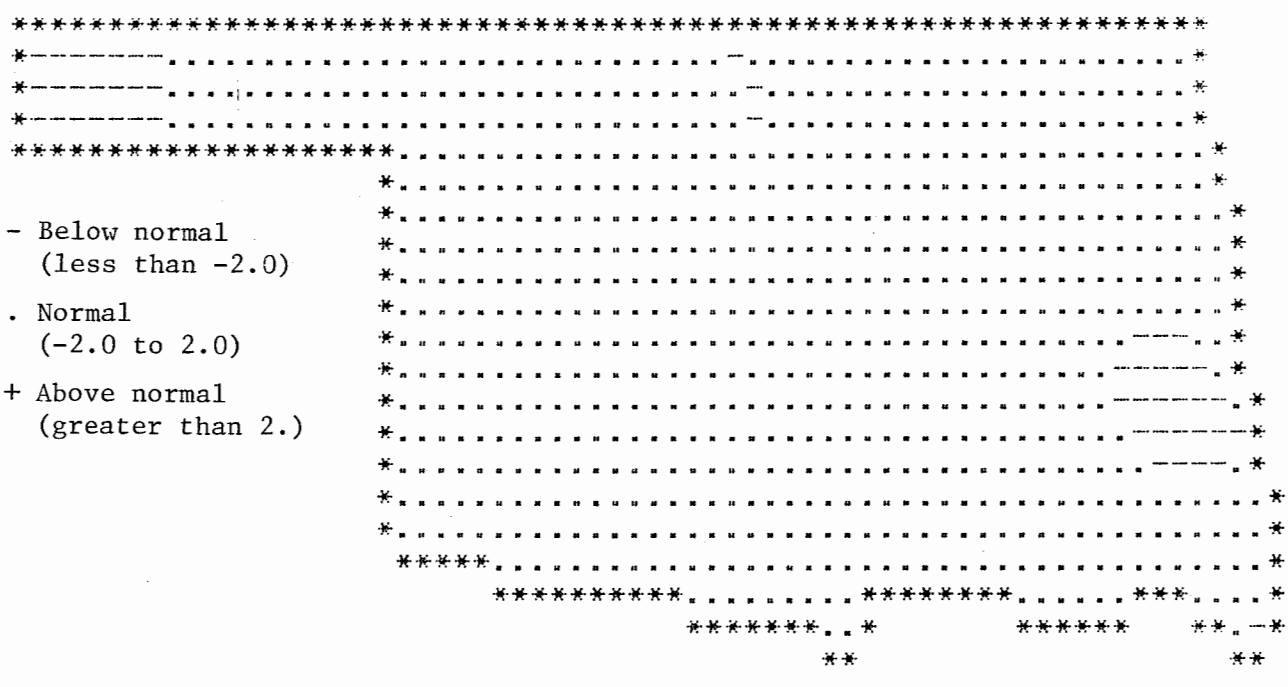
Note: 9999.0, 999.0, 99.99 indicate missing records. .001 = Trace

SEPTEMBER 1985 CLIMATE DIVISION SUMMARY

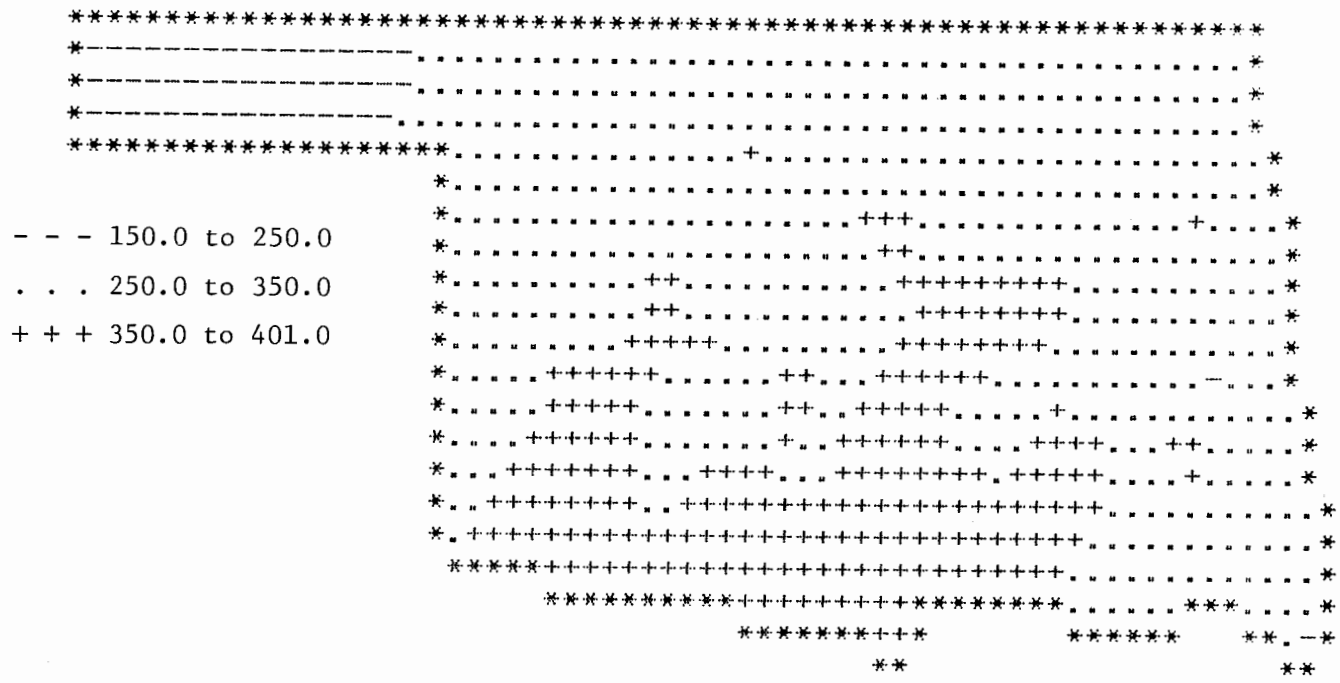
CLIMATE DIV	MEAN TEMP	NUM STA	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEGREE DAYS	DEV FROM NORM	COOL DEGREE DAYS	DEV FROM NORM	TOT PPT	NUM STA	DEV FROM NORM	MAX 24-HR	DAY
1	69.2	11	-1.1	105.0	4	25.0	30	109.5	79.0	232.3	41.6	4.61	14	2.88	3.04	19
2	72.8	15	-.3	107.0	1	31.0	30	68.9	50.0	300.9	38.1	5.23	26	2.19	3.57	21
3	73.8	18	1.0	109.0	1	31.0	30	43.0	20.0	301.7	43.4	5.37	33	1.06	4.92	14
4	73.8	10	.4	106.0	8	31.0	30	58.0	41.0	318.5	50.2	3.66	20	.87	3.65	21
5	74.3	16	.4	107.0	1	35.0	30	47.9	32.2	324.2	41.7	4.96	38	1.15	2.99	29
6	74.4	11	.6	105.0	5	40.0	26	39.9	24.3	320.4	38.6	3.77	29	-.50	3.65	14
7	75.6	11	.6	108.0	4	35.0	30	39.4	29.5	350.7	39.2	4.66	23	1.64	4.16	29
8	76.5	11	.6	112.0	7	37.0	30	24.5	17.1	366.2	30.6	3.07	25	-1.23	3.50	13
9	74.7	10	.0	110.0	1	33.0	26	31.9	24.1	318.5	18.7	4.15	18	-.86	3.20	12



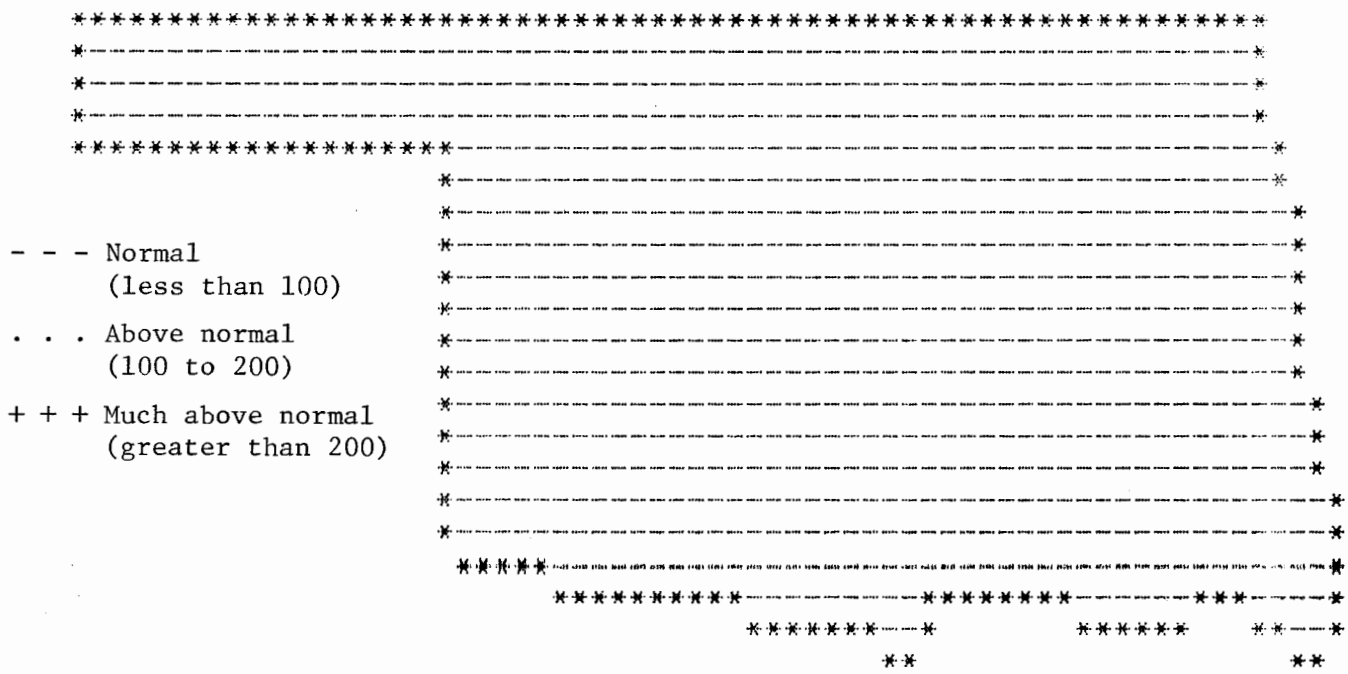
SEPTEMBER 1985 AVERAGE MONTHLY TEMPERATURE
(DEGREES F)



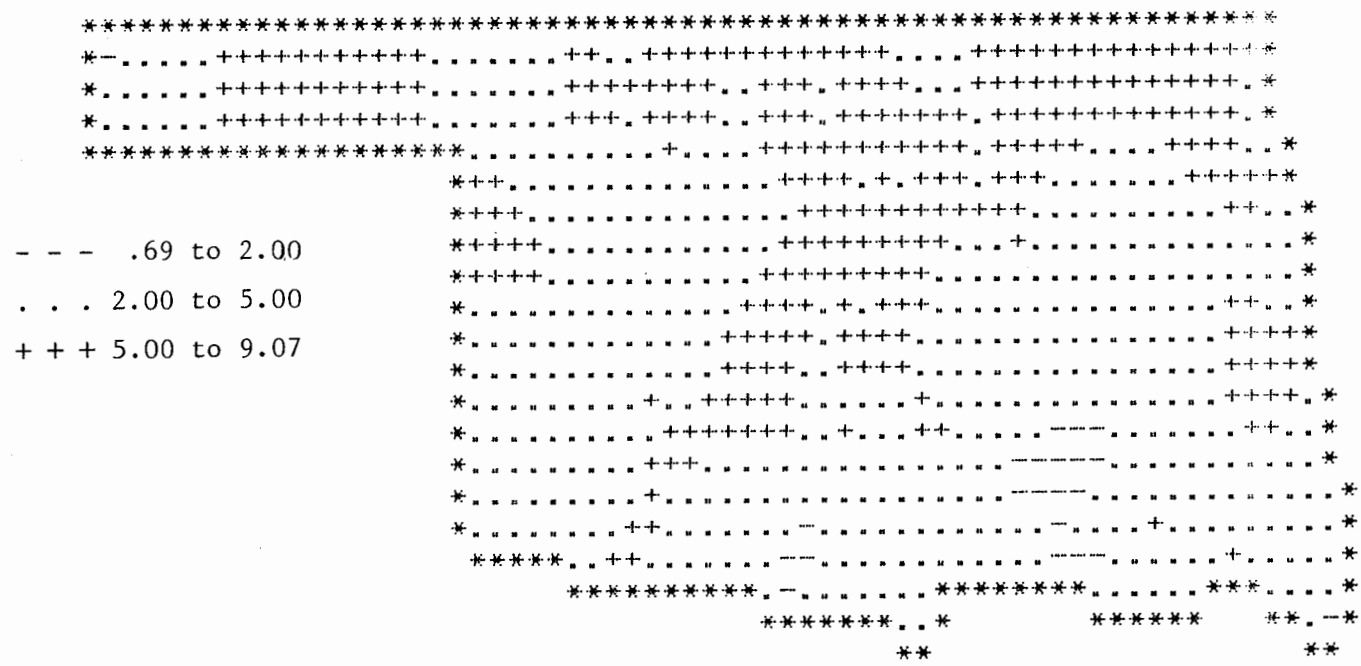
SEPTEMBER 1985 DEVIATION FROM NORMAL TEMPERATURES



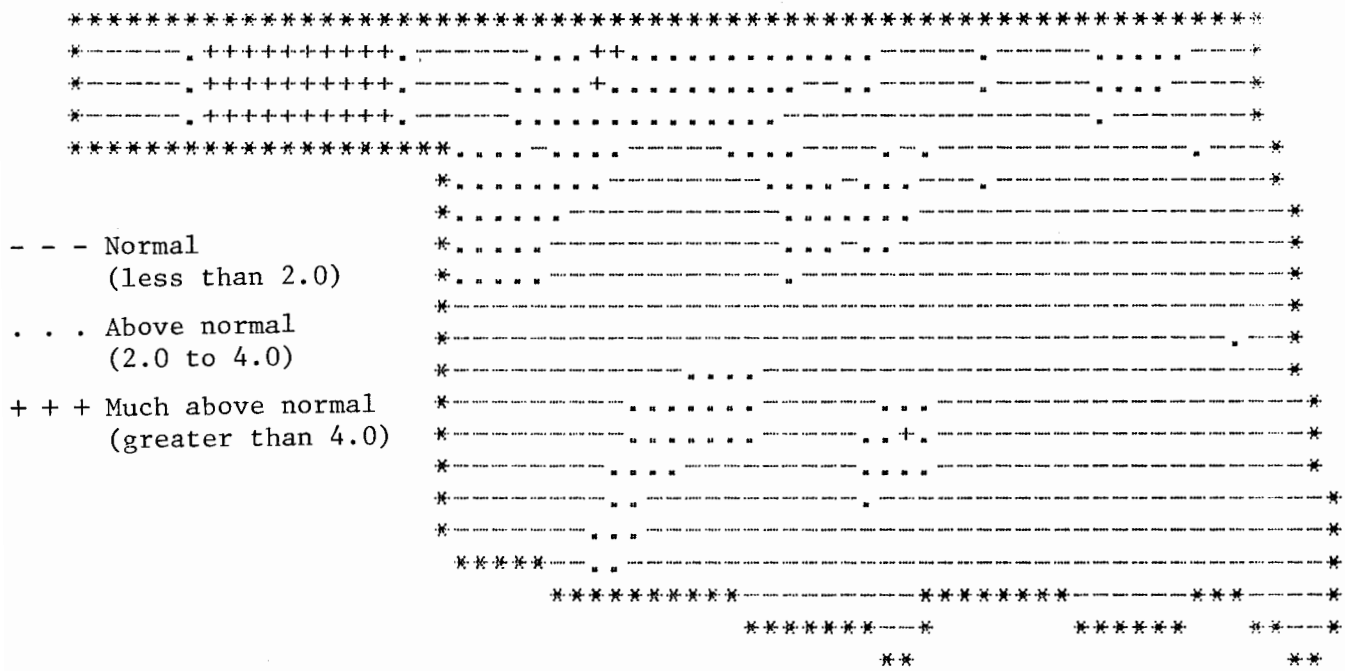
SEPTEMBER 1985 TOTAL COOLING DEGREE DAYS



SEPTEMBER 1985 DEVIATION FROM NORMAL COOLING DEGREE DAYS



SEPTEMBER 1985 TOTAL PRECIPITATION
(INCHES)



SEPTEMBER 1985 DEVIATION FROM NORMAL PRECIPITATION

NOVEMBER 1985
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).

Day	Normal	Actual	Highest Max	Lowest Max	Lowest Min	Highest Min	Greatest pcpn
1	66.5 max 44.2 min .063 pcpn	____ ____ ____	84-1982	35-1951	29-1966	68-1982	1.05-1981
2	62.6 max 41.2 min .123 pcpn	____ ____ ____	81-1978	31-1951	22-1966	62-1983	1.51-1951
3	59.8 max 40.0 min .119 pcpn	____ ____ ____	82-1931	40-1954	21-1939	61-1959	1.51-1964
4	62.3 max 40.1 min .056 pcpn	____ ____ ____	81-1978	47-1956	23-1936	56-1964	1.35-1956
5	60.6 max 40.5 min .065 pcpn	____ ____ ____	81-1945	35-1951	23-1951	59-1965	.99-1946
6	61.6 max 41.0 min .033 pcpn	____ ____ ____	85-1945	39-1959	20-1959	59-1965	.68-1978
7	61.9 max 39.6 min .030 pcpn	____ ____ ____	86-1980	44-1968	26-1959	61-1966	1.03-1944
8	62.4 max 39.7 min .041 pcpn	____ ____ ____	87-1980	40-1953	23-1955	66-1966	.33-1981
9	61.3 max 38.3 min .021 pcpn	____ ____ ____	82-1934	37-1958	25-1955	60-1984	1.15-1977
10	62.9 max 38.1 min .012 pcpn	____ ____ ____	81-1980	33-1950	20-1950	58-1964	1.17-1937
11	63.6 max 39.4 min .006 pcpn	____ ____ ____	79-1949	43-1968	19-1950	63-1982	.37-1940
12	64.4 max 39.6 min .059 pcpn	____ ____ ____	78-1938	33-1976	20-1940	58-1951	.49-1957
13	64.2 max 41.3 min .036 pcpn	____ ____ ____	80-1967	34-1976	12-1940	61-1973	.82-1970
14	62.4 max 40.7 min .025 pcpn	____ ____ ____	79-1973	30-1959	15-1959	63-1973	.95-1947
15	63.1 max 40.3 min .112 pcpn	____ ____ ____	80-1965	37-1978	15-1940	61-1971	1.70-1968
16	59.5 max 40.0 min .033 pcpn	____ ____ ____	82-1941	33-1955	14-1932	64-1958	3.94-1931
17	59.1 max 37.3 min .041 pcpn	____ ____ ____	77-1966	32-1959	11-1959	54-1975	1.70-1984
18	58.4 max 37.5 min .068 pcpn	____ ____ ____	80-1930	37-1972	17-1951	57-1979	1.37-1964
19	60.1 max 37.1 min .158 pcpn	____ ____ ____	78-1979	34-1972	18-1937	60-1977	1.70-1934
20	58.8 max 35.1 min .064 pcpn	____ ____ ____	79-1982	35-1972	19-1937	59-1979	1.74-1979
21	58.9 max 35.9 min .030 pcpn	____ ____ ____	80-1927	31-1964	20-1964	53-1966	1.17-1931
22	58.2 max 35.4 min .033 pcpn	____ ____ ____	78-1966	38-1957	18-1926	60-1966	1.54-1931
23	58.0 max 34.9 min .030 pcpn	____ ____ ____	79-1973	35-1970	19-1950	60-1966	1.62-1931
24	55.6 max 35.0 min .092 pcpn	____ ____ ____	76-1942	36-1950	15-1950	60-1966	.77-1944
25	60.8 max 36.6 min .025 pcpn	____ ____ ____	84-1965	39-1982	20-1950	62-1966	2.01-1940
26	58.1 max 34.9 min .097 pcpn	____ ____ ____	79-1970	32-1952	13-1975	50-1966	.97-1935
27	52.5 max 32.0 min .033 pcpn	____ ____ ____	76-1927	33-1958	16-1976	56-1960	1.28-1982
28	49.1 max 30.1 min .010 pcpn	____ ____ ____	81-1949	30-1952	15-1976	48-1962	.54-1968
29	51.9 max 29.0 min .008 pcpn	____ ____ ____	80-1927	34-1974	13-1976	51-1975	.61-1930
30	53.5 max 30.7 min .005 pcpn	____ ____ ____	74-1933	38-1983	13-1976	56-1970	.08-1939