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 MAY 1988

This month will be remembered as one of the driest May's ever recorded in Oklahoma. All reporting stations (except Pawnee - CD3) recorded below normal precipitation amounts. Although May's long-term average precipitation exceeds every other month's, many stations this month received precipitation totals less than their January (driest month) averages. May precipitation was the lowest in 39 years at many stations (see Table 1). Associated with this unseasonably dry weather was a lull in severe weather activity. Oklahoma experienced only one confirmed tornado, far below the May average of 18. Monthly mean temperatures were slightly above normal in the western CD's and southern CD's, and slightly below normal elsewhere.

The only tornado of the month was reported in Murray and Johnston Counties on the 2nd of May when a strong low pressure system moved eastward through the State. A surface front in Oklahoma separated very dry air to the west from moist air to the east. This dry line triggered strong thunderstorm development in south central Oklahoma. Severe storms also produced golfball-size hail in Johnston County.

Nearly 2 weeks of very dry weather followed these storms. Although the sunny days promoted wheat growth and pushed development ahead of the 5-year average, by the middle of the month the dry weather resulted in the lowest soil moisture supply since last summer, and a subsequent delay in cotton planting.

Rainfall from frontal thunderstorms provided relief to central and south central Oklahoma on the 15th. Some storms became destructive, however, producing 65 to 75 mph winds and golfball-size hail in Payne and Oklahoma Counties. Hail accumulations of several inches rendered some Oklahoma City area roads impassable.

Almost all reporting stations recorded rainfall during 4 days of showery weather from the 20th through the 23rd of May, as a low pressure system tracked directly over northern Oklahoma. Many stations in the northeastern two-thirds of the State reported more than an inch of rain during the period, while totals in the southwest averaged about .50 inch. In the Panhandle, where rainfall averaged less than one-half inch, the cold front resulted in maximum temperatures below 70 degrees for the first time in over two weeks. The front cooled the entire State as it slowly migrated eastward. High temperatures on the 23rd reached only into the 70's Statewide.

During the next several days Oklahoma experienced high pressure and mostly warm, dry weather. Thunderstorms delivered rain to western Oklahoma on May 30, but the Statewide monthly precipitation average remained much below normal. This lack of rainfall began to stress central Oklahoma alfalfa and wheat, although serious damage was not expected. The greatest risk of damage appeared to be in south central and southeastern sections of the State (see Drought Index Analysis discussion). Although the wheat crop should remain healthy for a mid-June harvest, the impact of the moisture stress on the young cotton crop will depend heavily on upcoming rainfall amounts (see 30 and 90-Day Outlook section).

TABLE 1

May 1988 Precipitation and Previous Record Low May Precipitation Amounts for Selected Oklahoma Stations.

(Period of Record: 1948 to Present)

CD	Station	1988+	Previous Lowest Amt.+	Year of Previous Low	Number of Years With May Precipitation Less Than 1988
1	Gage	.432	.240	1966	1
1	Fargo	.540	.210	1966	3
2	Woodward	.282	.070	1970	1
2	Mutual	.357*	.430	1966	0
3	Tulsa	1.184*	2.770	1951	0
3	Vinita	1.400	.760	1962	1
4	Hammon	.110*	.690	1966	0
4	Weatherford	.301*	.360	1958	0
5	Oklahoma City	.653*	.880	1966	0
5	El Reno	.620*	1.180	1966	0
6	Dewar	.881*	1.300	1962	0
6	Sallisaw	1.812	1.260	1951	1
7	Lawton	.303	.270	1984	1
7	Apache	.140*	.690	1966	0
8	Ada	.251*	.850	1966	0
8	Duncan	.340*	.570	1966	0
9	Antlers	.700*	.820	1963	0
9	Boswell	.295*	1.110	1963	0

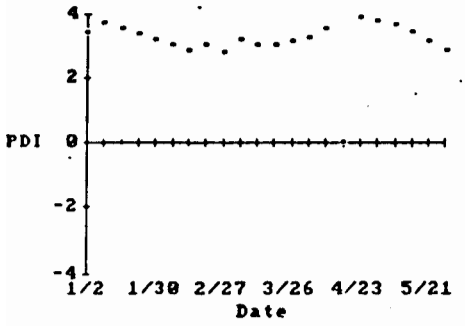
NOTE: * Denotes Record Low Precipitation In 1988
+ Values in Inches

DROUGHT INDEX ANALYSIS FOR OKLAHOMA

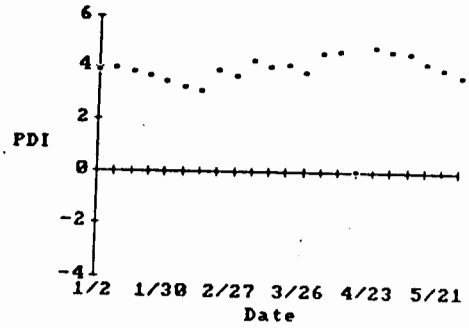
The Palmer Drought Index (PDI) is a meteorological drought index that classifies "spells" of weather. In general, the index is a measure of the moisture abnormality. The longer the spell of dry (wet) weather, the lower (higher) the index. Values of 0 to -0.5 are considered near normal, -0.5 to -1.0 an incipient drought, -1.0 to 2.0 a mild drought, -2.0 to -3.0 a moderate drought, -3.0 to -4.0 a severe drought, and -4.0 or below an extreme drought. Corresponding categories of moisture excess relate to positive values.

The Figures which follow contain weekly PDI values for each Oklahoma Climate Division through May, 1988. With the exception of Southeastern Oklahoma, heavy winter rain and snowfall resulted in excessively wet conditions leading into early spring. Unusually dry conditions have since prevailed throughout the spring. Moderate drought conditions, which became established during April, have persisted through all of May in Southeastern Oklahoma. Mild drought conditions developed in East Central Oklahoma during the second week of May. These conditions spread Northwestward throughout May, and by month's-end included all of Eastern, Central and South Central Oklahoma. Although widespread rainfall in early June has once again driven this area Southeastward, drought conditions could return unless more rainfall is received throughout the remainder of June.

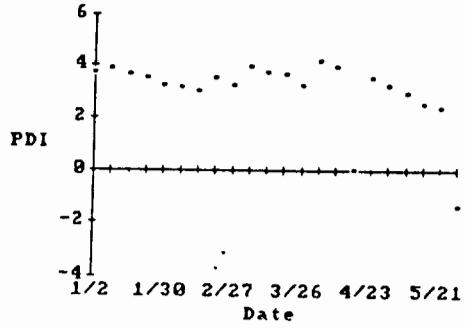
Panhandle



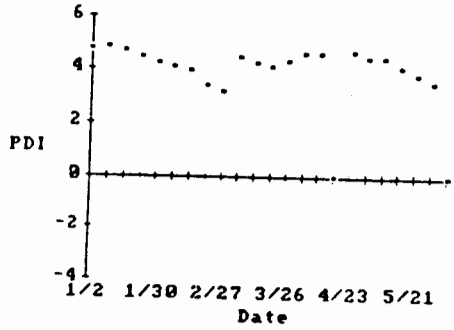
North Central



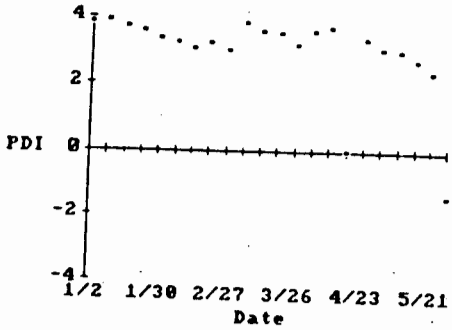
Northeastern



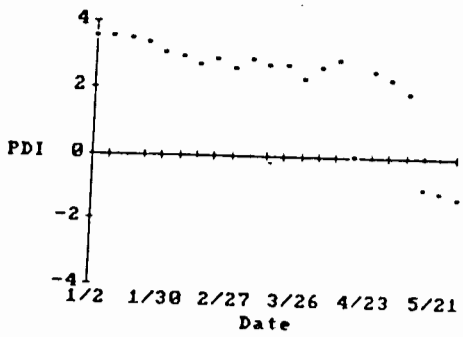
West Central



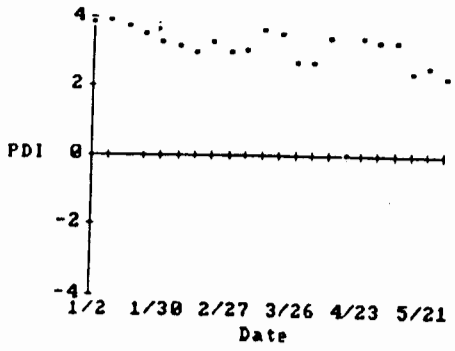
Central



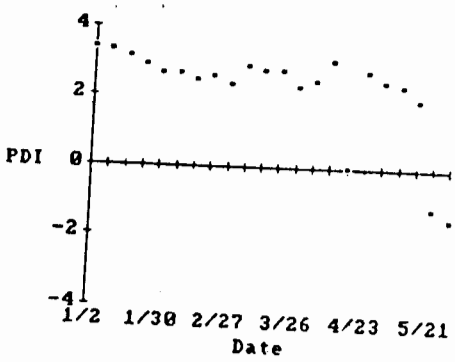
East Central



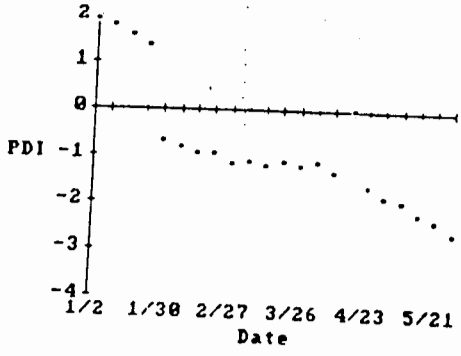
Southwestern



South Central



Southeastern



Weekly Palmer Drought Index values obtained from the National Oceanographic and Atmospheric Administration Climate Analysis Center (CAC), Washington, D.C.

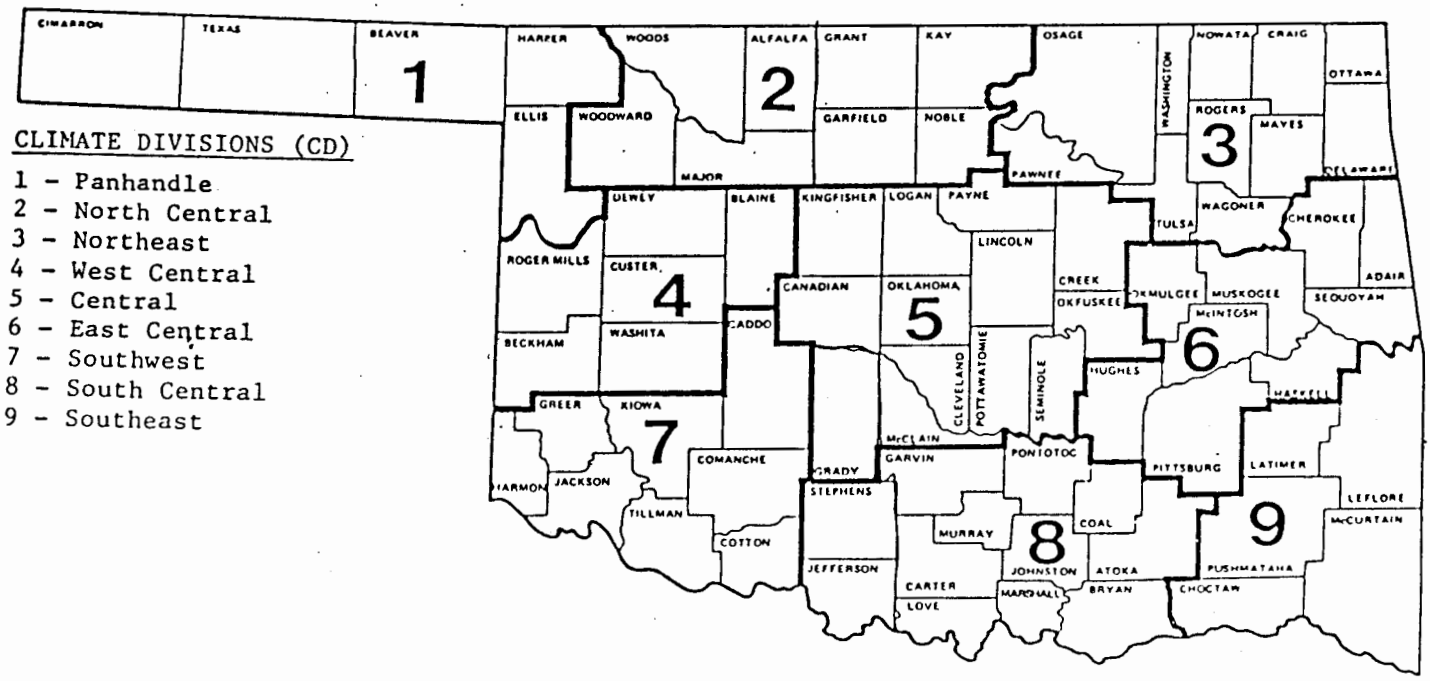
TABLE OF 1987/1988 COMPARISONS

Station	May Temperatures (F) 1987	1988	May Precipitation (in.) 1987	1988
Arnett	67.6	66.2	6.812	.482
Enid	72.5	70.4	10.280	1.050
Mutual	68.2	66.6	6.700	.350
Tulsa	74.8	70.9	10.191	1.184
Elk City	68.6	68.0	9.081	1.474
Oklahoma City	73.1	70.1	11.595	.653
McAlester	73.4	69.6	8.211	1.144
Altus Irr. Sta.	73.5	71.0	10.000	1.730
Durant	74.4	68.6	8.290	.990
Ada	72.5	71.0	10.272	.251
Antlers	73.8	70.0	7.460	.700

EXTREMES

Variable	Station	Division	Observation	Date
Minimum temperature (F)	Buffalo	1	34	5
Maximum temperature (F)	Mangum	7	97	15
Maximum 24-hour precipitation	Lyons	6	2.95"	21

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.

MAY 1988 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 24-HR DAY
ARNETT	332	1	66.2	30	-.1	90.	17	39.	4	73.0	-14.0	110.0	-18.0	.482	31	-3.66	.19	31
BEAVER	593	1	65.1	30	-1.2	93.	17	36.	5	89.5	-4.5	91.0	-43.0	1.590	31	-1.67	.61	31
BOISE CITY	980	1	62.2	31	999.0	89.	17	32.	2	134.0	9999.0	48.5	9999.0	6.210	31	1.26	3.05	31
BUFFALO	1243	1	68.0	31	-.5	93.	13	34.	5	49.0	-14.0	142.0	-29.0	1.241	31	-3.15	.80	31
FARGO	3070	1	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.540	31	-3.42	.40	31
GAGE	3407	1	66.6	31	.1	89.	17	40.	9	73.0	-14.0	121.5	-12.5	.423	31	-3.24	.21	31
GATE	3489	1	67.2	30	999.0	93.	16	38.	3	64.0	9999.0	131.0	9999.0	1.420	30	99.99	.85	31
GOODWELL RES STA	3628	1	61.8	30	-2.8	91.	18	37.	4	140.0	21.0	45.5	-63.5	2.493	31	-.38	1.40	31
GUYMON	3835	1	64.3	30	999.0	92.	17	36.	4	116.0	9999.0	94.0	9999.0	1.585	30	99.99	.91	31
HOOKER	4298	1	63.8	30	-1.6	92.	17	37.	5	108.0	11.0	71.5	-37.5	1.670	31	-1.76	1.23	31
KENTON	4766	1	61.1	30	-2.4	90.	17	31.	4	165.5	49.5	48.0	-21.0	2.510	31	.02	.81	31
LAVERNE	5045	1	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.543	31	-2.85	.38	31
OPTIMA LAKE	6740	1	64.3	20	999.0	92.	17	40.	5	55.0	9999.0	42.0	9999.0	1.590	30	99.99	1.18	31
REGNIER	7534	1	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.070	31	3.15	3.00	31
TURPIN	9017	1	64.9	30	999.0	91.	17	35.	4	95.5	9999.0	91.5	9999.0	1.840	31	99.99	1.12	31

MAY 1988 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 24-HR DAY
ALVA	194	2	69.7	31	1.6	94.	13	41.	5	27.5	-29.5	173.0	20.0	1.280	31	-2.78	.72	21
VANCE AFB	302	2	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.482	31	99.99	.18	21
BILLINGS	755	2	68.1	30	999.0	91.	13	42.	5	36.5	9999.0	129.5	9999.0	1.031	31	-3.57	.75	23
BLACKWELL	818	2	68.6	31	999.0	90.	18	46.	9	30.5	9999.0	143.5	9999.0	1.954	31	99.99	1.37	23
BRAMAN	1075	2	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.193	31	99.99	.41	22
CEDARDALE	1620	2	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.630	31	99.99	.34	24
CHEROKEE	1724	2	71.0	31	2.3	93.	13	43.	4	21.0	-24.0	205.5	45.5	1.500	31	-2.35	1.40	21
ENID	2912	2	70.4	31	1.4	91.	17	46.	5	21.5	-18.5	189.0	25.0	1.050	31	-3.96	.82	21
FT SUPPLY	3304	2	66.2	30	-1.3	88.	24	37.	4	72.0	3.0	107.0	-40.0	7.560	31	3.85	6.90	9
FREEDOM	3358	2	68.5	31	999.0	91.	17	39.	4	37.5	9999.0	147.5	9999.0	.380	31	99.99	.28	22
GSP DAM	3740	2	69.9	30	999.0	92.	17	44.	4	24.0	9999.0	170.0	9999.0	.801	23	-2.78	.29	21
HARDY	3989	2	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.165	31	99.99	.67	20
HELENA	4019	2	66.9	30	999.0	91.	17	43.	5	54.5	9999.0	110.5	9999.0	1.291	31	-3.05	.85	21
JEFFERSON	4573	2	70.5	31	1.8	92.	18	43.	5	19.0	-28.0	191.0	29.0	2.183	31	-1.74	1.63	31
LAMONT	5013	2	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.470	31	99.99	.98	21
MEDFORD	5768	2	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.523	31	99.99	.95	31
MORRISON	6065	2	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.240	31	99.99	1.62	23
MUTUAL	6139	2	66.6	30	-.5	90.	17	42.	5	58.0	-21.0	106.0	-39.0	.350	31	-3.97	.35	24
NEWKIRK	6278	2	69.7	31	1.5	89.	17	47.	9	24.5	-26.5	170.5	19.5	1.062	31	-3.66	.45	23
ORIENTA	6751	2	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.920	31	99.99	.50	21
PERRY	7012	2	71.7	31	2.4	91.	18	48.	4	13.5	-24.5	222.5	50.5	2.071	31	-3.21	1.14	23
PONCA CITY	7201	2	70.2	21	2.5	91.	18	46.	5	23.5	-41.5	133.0	-15.0	.151	24	-4.34	.06	21
RED ROCK	7505	2	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.320	31	-3.31	.90	23
RENFROW	7556	2	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.110	31	-2.72	.33	29
SEMINOLE	8042	2	71.9	31	1.5	92.	18	48.	5	7.5	-15.5	222.0	31.0	.800	31	-4.55	.55	30
WAYNOKA	8404	2	69.0	31	-.1	92.	17	37.	4	42.0	-6.0	165.5	-9.5	.530	31	-3.91	.41	22
WOODWARD	9760	2	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.282	31	-3.79	.16	20

MAY 1988 SUMMARY FOR NORTHEAST DIVISION (CD3)

NAME	ID	DIV	MEAN TEMP	DEV 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	DEV NUM OBS	DEV FROM NORM	MAX 24-HR	MAX 24-HR DAY
BARNSDALL	535	3	68.8	31	999.0	89.	13	43.	5	19.5	9999.0	137.0	9999.0	1.204	31	-4.07	.52	21
BARTLESVILLE	548	3	69.7	31	1.0	91.	13	43.	26	18.5	-17.5	165.5	15.5	1.170	31	-3.50	.35	21
BIXBY	782	3	68.7	30	.1	91.	17	43.	5	25.5	-17.5	136.0	-19.0	1.110	31	-3.54	.91	23
BURBANK	1256	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.933	31	99.99	.73	31
CHELSEA	1717	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.081	31	99.99	.50	23
CLAREMORE	1828	3	68.0	30	.1	90.	17	43.	26	24.5	-38.5	114.0	-38.0	1.173	31	-3.50	.37	23
CLEVELAND	1902	3	69.2	24	999.0	89.	17	45.	4	11.5	9999.0	113.5	9999.0	1034*3	29	99.99	99.90	1
FORAKER	3250	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.400	31	-3.42	.58	23
HOLLOW	4258	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.210	31	-3.65	.52	23
HOMINY	4289	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.121	31	-1.52	1.35	23
HULAH DAM	4393	3	66.5	15	-.8	89.	15	43.	26	20.0	-45.0	42.5	-93.5	1.271	21	-3.04	.40	22
JAY TOWER	4567	3	69.0	28	999.0	90.	20	44.	6	17.0	9999.0	128.0	9999.0	1.420	28	99.99	.80	22
KANSAS	4672	3	67.6	31	999.0	86.	17	44.	5	28.5	9999.0	108.5	9999.0	2.563	31	99.99	1.75	22
KEYSTONE DAM	4812	3	69.1	30	999.0	92.	13	44.	5	18.0	9999.0	140.5	9999.0	1.313	31	99.99	1.00	23
LENAPAH	5118	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.170	31	99.99	.45	23
MANNFORD	5522	3	70.6	30	999.0	92.	17	46.	5	8.5	9999.0	176.0	9999.0	3.560	30	99.99	1.63	23
MARAMEC	5540	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.421	31	-1.59	1.10	23
MIAMI	5855	3	67.4	30	-.5	87.	10	42.	5	24.0	-34.0	95.5	-52.5	1.871	31	-3.16	.91	23
NOWATA	6485	3	69.2	31	1.0	89.	13	44.	6	21.5	-24.5	151.5	6.5	1.490	31	-3.13	.59	22
ONETA	6713	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.913	31	99.99	2.27	23
PAWHUSKA	6935	3	69.2	31	1.0	89.	13	44.	5	18.5	-29.5	147.5	.5	3.782	31	-.98	2.07	23
PAWHUSKA 2	6937	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.892	31	99.99	1.12	23
PAWNEE	6940	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.430	31	.59	1.86	23
PRYOR	7309	3	66.6	30	-1.5	89.	17	42.	26	34.0	-21.0	81.0	-70.0	2.073	31	-2.81	1.16	21
QUAPAW	7358	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.840	31	-4.34	.49	16
RALSTON	7390	3	71.0	31	999.0	92.	13	47.	5	8.5	9999.0	193.0	9999.0	3.251	31	-1.47	1.90	16
RAMONA	7394	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.680	31	99.99	.46	20
SKIATOOK	8258	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.450	31	-3.22	.76	21
SPAVINAW	8380	3	69.3	31	999.0	87.	18	44.	5	16.5	9999.0	150.0	9999.0	1.834	31	-3.23	.89	23
TULSA	8992	3	70.9	31	1.8	90.	17	49.	5	13.0	-27.0	194.5	27.5	1.184	31	-3.96	.75	23
UPPER SPAVINAW	9101	3	71.5	30	999.0	95.	30	44.	5	7.5	9999.0	202.0	9999.0	1.593	31	99.99	.83	22
VINITA	9203	3	67.0	30	-.6	88.	13	40.	5	31.5	-30.5	92.5	-50.5	1.400	30	-3.95	.82	23
WAGONER	9247	3	69.8	31	.6	89.	17	47.	5	15.0	-15.0	165.0	4.0	2.733	31	-2.10	1.84	23
WANN	9298	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.390	31	99.99	.67	24
WYNONA	9792	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.574	31	99.99	1.00	23

MAY 1988 SUMMARY FOR WEST CENTRAL DIVISION (CD4)

NAME	ID	DIV	MEAN TEMP	DEV 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	DEV NUM OBS	DEV FROM NORM	MAX 24-HR	MAX DAY
CANTON DAM	1445	4	68.1	30	-.4	89.	17	43.	5	39.5	-10.5	131.5	-27.5	1.752	31	-3.20	1.02	21
CHEYENNE	1738	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.081	31	99.99	.08	31
CLINTON	1909	4	70.2	31	1.2	92.	17	43.	4	18.0	-23.0	180.0	15.0	1.021	31	-3.98	.41	31
COLONY	2039	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.740	31	99.99	.25	21
CORDELL	2125	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.430	31	-4.25	.15	2
ELK CITY	2849	4	68.0	31	999.0	93.	16	39.	7	40.5	9999.0	132.5	9999.0	1.474	31	-3.46	.96	31
ERICK	2944	4	67.9	31	-.6	91.	17	41.	4	36.5	-9.5	127.0	-27.0	.464	31	-3.95	.24	21
GEARY	3497	4	67.2	29	-1.7	88.	17	38.	9	50.5	10.5	115.5	-44.5	.800	29	-4.00	.60	21
HAMMON	3871	4	67.0	30	-1.3	90.	17	40.	3	46.0	-17.0	106.0	-59.0	.110	31	-4.45	.05	20
LEEDEY	5090	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.340	31	-4.44	.18	24
MACKIE	5463	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.080	31	99.99	.08	31
MORAVIA	6035	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.560	31	-4.19	.46	21
OKEENE	6629	4	69.7	31	.2	91.	17	45.	5	21.5	-14.5	168.5	-7.5	.750	31	-4.24	.52	21
RETROP	7565	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.710	31	99.99	.65	21
REYDON	7579	4	68.0	31	999.0	91.	17	41.	4	47.5	9999.0	141.5	9999.0	1.583	31	-2.71	1.47	31
SAYRE	7952	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.301	31	-4.11	.17	21
SWEETWATER	8652	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.410	31	99.99	.17	31
TALOGA	8708	4	68.4	31	.5	92.	15	41.	5	42.5	-13.5	148.0	2.0	.601	31	-4.53	.35	24
THOMAS	8815	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.350	31	99.99	.60	30
VICI	9172	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.921	31	99.99	1.64	31
WATONGA	9364	4	69.3	31	999.0	90.	17	43.	5	31.0	9999.0	163.0	9999.0	.862	31	-4.12	.62	21
WEATHERFORD	9422	4	69.8	31	.5	93.	18	41.	3	30.0	-3.0	177.5	10.5	.301	31	-4.42	.12	24

MAY 1988 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	.070	31	99.99	.07	22
ARCADIA	288	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.262	31	99.99	.82	16
TINKER AFB	325	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.341	31	99.99	.96	16
BLANCHARD	830	5	70.6	30	999.0	90.	17	46.	5	10.0	9999.0	178.0	9999.0	.203	31	99.99	.13	24
BRISTOW	1144	5	70.3	29	1.2	92.	17	47.	26	12.5	-19.5	166.5	7.5	1.191	31	-4.54	.54	23
CHANDLER	1684	5	69.8	30	.7	90.	20	42.	5	15.5	-16.5	161.0	-2.0	1.240	30	-4.17	.49	24
CHICKASHA	1750	5	70.1	31	-.1	93.	17	43.	5	18.5	-5.5	178.0	-8.0	.391	31	-4.73	.23	22
COX CITY	2196	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.300	31	99.99	.90	31
CRESCENT	2242	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.640	31	99.99	.27	23
CUSHING	2318	5	70.1	24	1.6	90.	17	50.	4	15.5	-33.5	137.0	-21.0	1.501	28	-3.85	.85	23
EL RENO	2818	5	69.5	31	.8	91.	17	44.	5	21.5	-15.5	159.5	7.5	.620	31	-4.55	.27	24
GUTHRIE	3821	5	71.7	31	2.4	92.	17	45.	5	11.5	-22.5	219.0	52.0	.620	31	-4.80	.37	24
HENNESSEY	4055	5	69.3	31	.1	90.	17	43.	5	28.0	-13.0	161.0	-11.0	1.051	31	-4.27	.99	3
INGALLS	4489	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.451	31	99.99	1.02	21
KINGFISHER	4861	5	69.6	31	.2	91.	17	44.	5	27.0	-8.0	169.5	-1.5	.180	31	-4.76	.07	24
KINGFISHER CREEK	4862	5	69.5	31	999.0	91.	17	44.	5	27.0	9999.0	166.0	9999.0	.180	31	99.99	.07	24
KINGFISHER UJC	4864	5	69.6	31	999.0	91.	17	44.	5	24.0	9999.0	166.0	9999.0	.180	31	99.99	.07	24
KONAWA	4915	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.732	31	-5.37	.60	30
MARSHALL	5589	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.370	31	-4.88	.37	24
MEEKER	5779	5	69.5	31	.5	88.	17	44.	5	15.0	-20.0	156.0	-3.0	.890	31	-4.75	.43	16
MULHALL	6110	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.894	31	99.99	.35	24
NORMAN	6386	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.183	31	-5.71	.10	22
OILTON	6616	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.200	31	99.99	.68	21
OKEMAH	6638	5	69.6	31	.5	90.	17	47.	3	15.5	-11.5	159.5	5.5	1.321	31	-3.70	.81	23
OKLAHOMA CITY	6661	5	70.1	31	1.7	96.	17	47.	5	19.5	-21.5	179.0	32.0	.653	31	-4.85	.39	16
PERKINS	7003	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.910	31	-2.29	1.45	16
PIEDMONT	7068	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.330	31	99.99	.10	24
PRAGUE	7264	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.311	31	-3.95	.94	23
PURCELL	7327	5	69.3	31	-.2	90.	17	44.	5	14.5	-20.5	148.0	-27.0	.253	31	-5.77	.25	16
SHAWNEE	8110	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.200	31	-4.81	.48	24
STELLA	8479	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.630	31	99.99	.40	22
STILLWATER	8501	5	68.9	30	.5	90.	17	43.	5	22.0	-26.0	140.0	-14.0	3.141	31	-1.94	1.40	16
STROUD	8563	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.683	31	99.99	.18	24
TROUSDALE	8960	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.760	31	99.99	.72	17
UNION CITY	9086	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.151	31	-5.75	.09	23
WELTY	9479	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.501	31	99.99	.50	23
WEWOKA	9575	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.061	31	-4.27	.70	24

MAY 1988 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	1.120	31	99.99	.55	24
BEGGS	631	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.600	31	99.99	.60	24
BOYNTON	1027	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.961	31	99.99	1.77	23
CALVIN	1391	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.622	31	-5.20	.46	23
CHECOTAH	1711	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.373	31	-4.01	.80	23
DEWAR	2485	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.881	31	-4.23	.71	24
DUSTIN	2690	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.610	31	99.99	.33	23
EUFAULA	2993	6	70.7	31	999.0	90.	17	49.	5	7.5	9999.0	184.5	9999.0	1.260	31	-4.22	.39	23
HANNA	3884	6	68.8	31	999.0	91.	17	45.	27	18.5	9999.0	135.0	9999.0	1.063	31	-4.38	.39	3
HARTSHORNE	3946	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.433	31	99.99	.87	24
HASKELL	3956	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.050	31	-3.92	.62	23
HOLDENVILLE	4235	6	69.8	31	.1	92.	17	45.	5	14.5	-8.5	164.5	-4.5	1.293	31	-4.31	.63	24
LAKE EUFAULA	4975	6	70.2	30	999.0	90.	19	49.	26	8.0	9999.0	162.5	9999.0	1.360	31	99.99	.90	23
LYONS	5437	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.702	31	-1.61	2.95	21
MCALESTER	5664	6	69.6	31	.1	91.	17	47.	10	19.0	-15.0	162.0	-12.0	1.144	31	-4.48	.49	22
MCCURTAIN	5693	6	70.8	31	999.0	91.	31	45.	26	6.5	9999.0	186.0	9999.0	1.071	31	-4.60	.63	23
MUSKOGEE	6130	6	70.2	31	.7	90.	17	45.	26	14.0	-18.0	174.0	2.0	2.320	31	-2.71	.84	22
OKMULGEE WATER WORK	6670	6	68.5	29	-.8	91.	17	45.	27	19.0	-11.0	120.5	-42.5	.914	29	-4.17	.75	23
OKTAHA	6678	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.550	31	99.99	2.04	23
QUINTON	7372	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.584	31	-4.99	.47	23
SALLISAW	7862	6	68.9	31	-.8	91.	16	42.	5	16.0	-9.0	138.0	-32.0	1.812	31	-3.66	.90	23
SCIPIO	7979	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.260	31	99.99	.59	23
SCRAPER	7993	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.820	31	99.99	2.20	21
SHORT	8170	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.271	31	99.99	.61	21
STILWELL	8506	6	68.2	31	999.0	89.	16	39.	5	32.0	9999.0	130.0	9999.0	1.757	31	-3.87	.90	23
TAHLEQUAH	8677	6	67.9	31	-.3	90.	17	39.	5	30.5	-25.5	119.5	-35.5	3.180	31	-2.29	1.70	21
WEBBERS FALLS	9445	6	68.3	30	-.7	90.	17	45.	5	15.5	-20.5	115.5	-44.5	3.330	31	-1.98	2.34	23
WESTVILLE	9523	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.240	31	99.99	.60	23
WETUMKA	9571	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.986	31	-4.43	.71	23

MAY 1988 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	71.0	31	-.6	96.	15	45.	4	16.0	-2.0	282.5	-19.5	1.730	31	-2.92	1.20	1
ALTUS DAM	184	7	70.4	30	999.0	95.	15	49.	5	21.0	9999.0	182.5	9999.0	.381	31	-4.40	.16	20
ANADARKO	224	7	70.0	24	-.0	91.	17	43.	5	8.0	-18.0	127.0	-54.0	0.000	24	-4.89	0.00	31
APACHE	260	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.140	31	99.99	.09	2
ALTUS AFB	447	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.317	31	99.99	.10	21
CARNEGIE	1504	7	70.0	31	-.0	91.	17	44.	5	15.5	-8.5	169.0	-10.0	.410	31	-4.71	.32	20
CHATTANOOGA	1706	7	70.5	29	-.3	93.	16	43.	4	13.5	-4.5	173.0	-25.0	0.000	29	-4.76	0.00	31
DUNCAN	2668	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.171	31	99.99	.17	23
FREDRICK	3353	7	71.1	30	-1.2	94.	17	46.	4	12.5	-2.5	196.0	-45.0	.320	31	-4.42	.25	19
HOLLIS	4249	7	70.3	29	-1.5	96.	15	47.	10	20.5	1.5	175.0	-55.0	.520	29	-3.55	.34	21
HOBART	4204	7	69.6	31	.5	93.	17	41.	4	28.0	-11.0	170.0	4.0	.735	31	-4.24	.23	24
LAWTON	5063	7	70.9	30	.3	92.	17	49.	4	11.0	-11.0	189.5	-5.5	.303	31	-5.39	.28	31
FT SILL	5068	7	69.7	30	999.0	89.	14	50.	5	11.5	9999.0	151.0	9999.0	.365	31	-5.33	.33	31
LOCO	5247	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.872	31	99.99	.81	30
LOOKEBA	5329	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.650	31	99.99	.27	21
MANGUM RES STA	5509	7	71.0	31	.0	97.	15	43.	4	6.0	-18.0	192.5	-17.5	.462	31	-4.26	.30	21
RANDLETT	7403	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	0.000	31	99.99	0.00	31
ROOSEVELT	7727	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.651	31	-4.60	.26	20
SEDAN	8016	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.920	31	99.99	.50	21
SNYDER	8299	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.031	31	-3.97	.68	20
VINSON	9212	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.510	31	-4.13	.15	21
WALTERS	9278	7	71.0	31	-.5	92.	18	46.	5	12.5	-4.5	198.5	-20.5	.001	31	-5.31	.00	31
WICHITA MT WF RF	9629	7	70.4	30	1.2	93.	17	43.	5	15.5	-14.5	176.5	16.5	.440	31	-4.80	.37	20
WILLOW	9668	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.681	31	99.99	.46	21

MAY 1988 SUMMARY FOR SOUTH CENTRAL DIVISION (CD8)

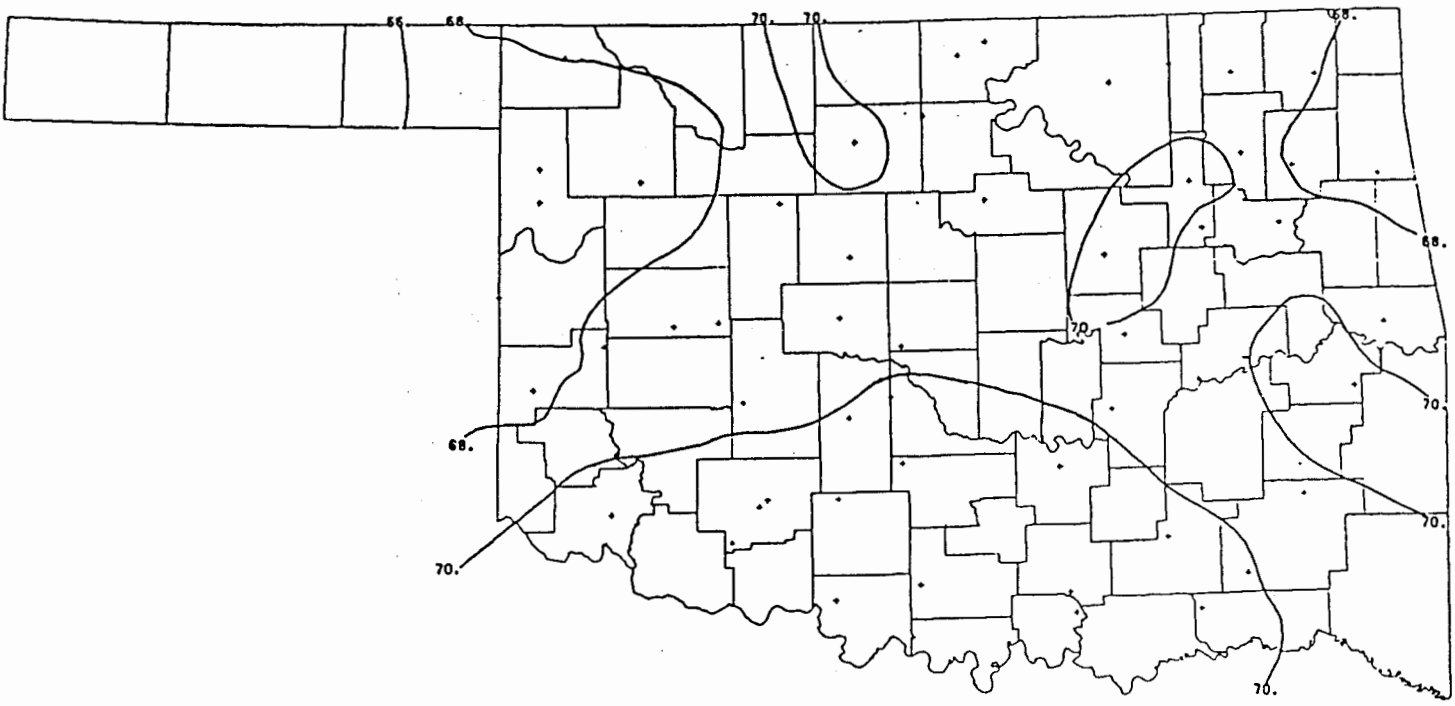
NAME	ID	DIV	MEAN TEMP	NUM OBS	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
ADA	17	8	71.1	31	1.4	96.	19	47.	5	7.5	-15.5	197.0	29.0	.251	31	-5.38	.13	30
ALLEN	147	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.800	31	99.99	.60	31
ARDMORE	292	8	71.1	31	-1.3	90.	17	48.	3	7.0	0.0	197.5	-38.5	.590	31	-4.05	.30	16
ATOKA DAM	394	8	70.4	30	999.0	95.	17	45.	4	20.0	9999.0	181.5	9999.0	.300	31	99.99	.21	31
BOKCHITO	917	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.470	31	99.99	.75	20
CANEY	1437	8	71.3	30	999.0	91.	16	50.	5	5.0	9999.0	195.0	9999.0	.650	31	99.99	.20	21
CENTRAHOMA	1640	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.170	31	99.99	.17	29
CHICKASAW	1745	8	69.1	30	999.0	89.	17	44.	5	23.0	9999.0	144.5	9999.0	.671	31	99.99	.31	16
COLEMAN	2011	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.700	31	99.99	.70	30
COMMANCHE	2054	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.142	31	99.99	.11	8
DAISY	2354	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.982	31	-5.32	.51	24
DUNCAN	2660	8	69.9	30	-1.0	90.	18	48.	4	12.0	-5.0	158.5	-41.5	.340	31	-5.28	.17	31
DURANT	2678	8	68.6	30	999.0	89.	18	47.	5	21.0	9999.0	128.5	9999.0	.990	31	-4.01	.46	21
ELMORE CITY	2872	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.054	31	99.99	.05	31
FARRIS	3083	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.180	31	99.99	.18	25
GRADY	3688	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.250	31	99.99	.15	29
HEALDTON	4001	8	70.4	31	999.0	92.	17	44.	5	13.5	9999.0	180.0	9999.0	.192	31	-4.66	.08	12
HENNEPIN	4052	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.316	31	99.99	1.11	31
KINGSTON	4865	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.330	31	-3.71	.71	21
LEHIGH	5108	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.633	31	99.99	.48	30
LINDSAY	5216	8	70.0	30	999.0	90.	17	43.	5	14.5	9999.0	165.5	9999.0	.105	30	-6.18	.06	16
MADILL	5468	8	70.9	31	.0	91.	17	48.	5	8.0	-5.0	191.0	-5.0	.950	31	-4.15	.30	23
MARIETTA	5563	8	71.5	31	.7	92.	17	49.	3	6.0	-9.0	208.0	13.0	.750	31	-3.80	.33	21
MARLOW	5581	8	70.4	31	999.0	90.	17	43.	4	16.0	9999.0	182.5	9999.0	.252	31	-5.76	.19	30
MCGEE CREEK	5713	8	70.7	30	999.0	93.	18	44.	6	14.0	9999.0	184.0	9999.0	.500	31	99.99	.38	24
OSWALT	6787	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	0.000	31	99.99	0.00	31
PAULS VALLEY	6926	8	70.3	31	-.8	92.	17	43.	5	10.5	-7.5	175.5	-31.5	.141	31	-5.32	.05	23
PONTOTOC	7214	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.500	31	-5.23	.50	2
TISHOMINGO	8884	8	70.2	30	999.0	93.	16	45.	5	10.5	9999.0	168.0	9999.0	.341	31	-4.54	.14	16
TUSSY	9032	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.064	31	99.99	.06	24
WAURIKA	9395	8	71.6	31	-.3	93.	17	46.	5	7.5	-5.5	212.0	-15.0	.150	31	-4.70	.15	7
WAURIKA DAM	9399	8	70.2	28	999.0	92.	17	45.	4	16.0	9999.0	163.0	9999.0	.251	31	99.99	.08	12

MAY 1988 SUMMARY FOR SOUTHEAST DIVISION (CD9)

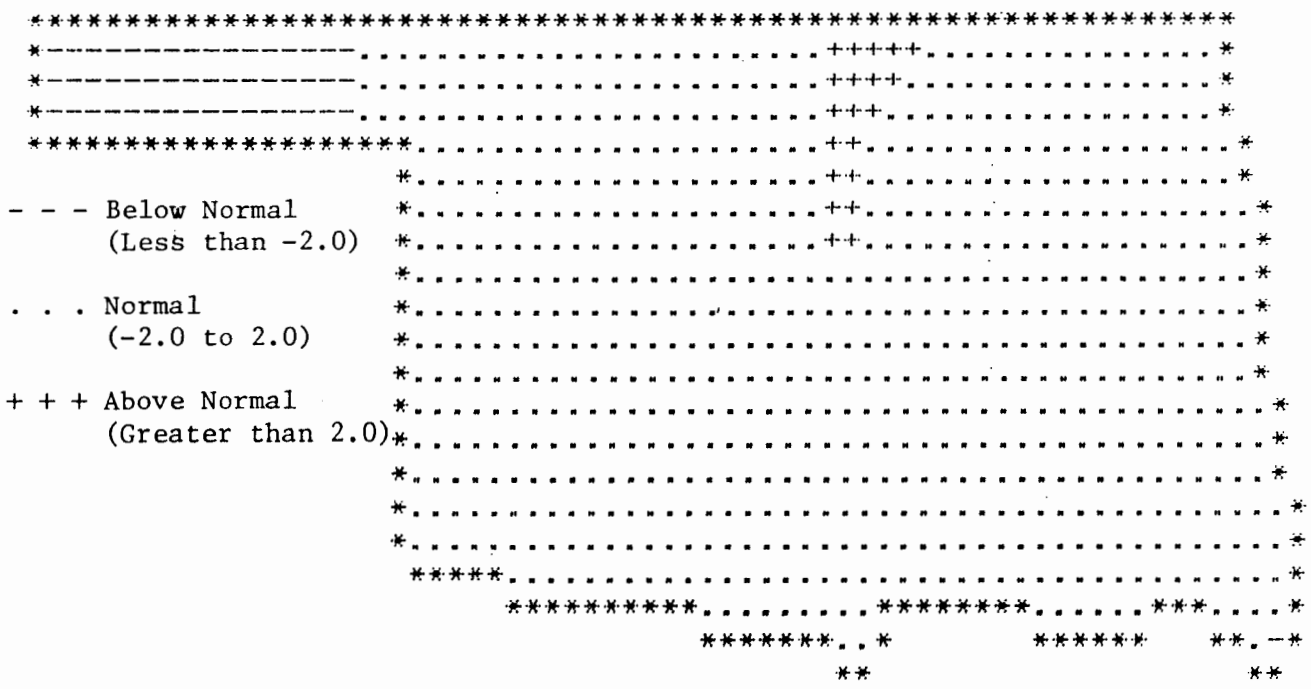
NAME	ID	DIV	MEAN TEMP	NUM OBS	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
ANTLERS	256	9	70.0	31	.2	91.	31	45.	27	10.5	-15.5	165.5	-8.5	.700	31	-5.24	.41	12
BENGAL	670	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.791	31	99.99	.51	23
BOSWELL	980	9	70.3	31	999.0	91.	17	44.	5	14.0	9999.0	177.5	9999.0	.295	31	-4.65	.10	21
BKN BOW	1162	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.280	31	-4.41	.50	9
BKN BOW DAM	1168	9	68.9	30	999.0	94.	17	44.	27	16.0	9999.0	134.5	9999.0	1.080	31	99.99	.60	21
CARNASAW	1499	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.110	31	-5.23	.72	21
CARTER TW	1544	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.050	31	-4.89	.60	19
FANSHAWE	3065	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.291	31	-4.62	.70	21
HEAVENER	4008	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.473	31	-3.05	1.22	23
HEE MT TW	4017	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.050	31	99.99	.57	23
HUGO	4384	9	71.0	31	-.3	90.	31	49.	5	5.5	-3.5	191.5	-13.5	.751	31	-4.91	.40	9
IDABEL	4451	9	69.5	30	-1.0	90.	17	48.	26	8.0	-7.0	143.0	-43.0	1.820	31	-3.85	.81	21
POTEAU	7254	9	69.0	30	999.0	90.	30	43.	25	8.0	9999.0	127.5	9999.0	4.010	31	99.99	2.45	22
SMITHVILLE	8285	9	66.0	31	999.0	92.	17	36.	26	45.0	9999.0	76.0	9999.0	2.680	31	99.99	1.04	23
SPIRO	8416	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.160	31	-3.20	1.19	23
TUSKAHOMA	9023	9	69.4	31	999.0	92.	18	39.	26	20.5	9999.0	157.0	9999.0	.542	31	99.99	.24	23
VALLIANT	9118	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.860	31	-4.64	.42	9

MAY 1988 CLIMATE DIVISION SUMMARY

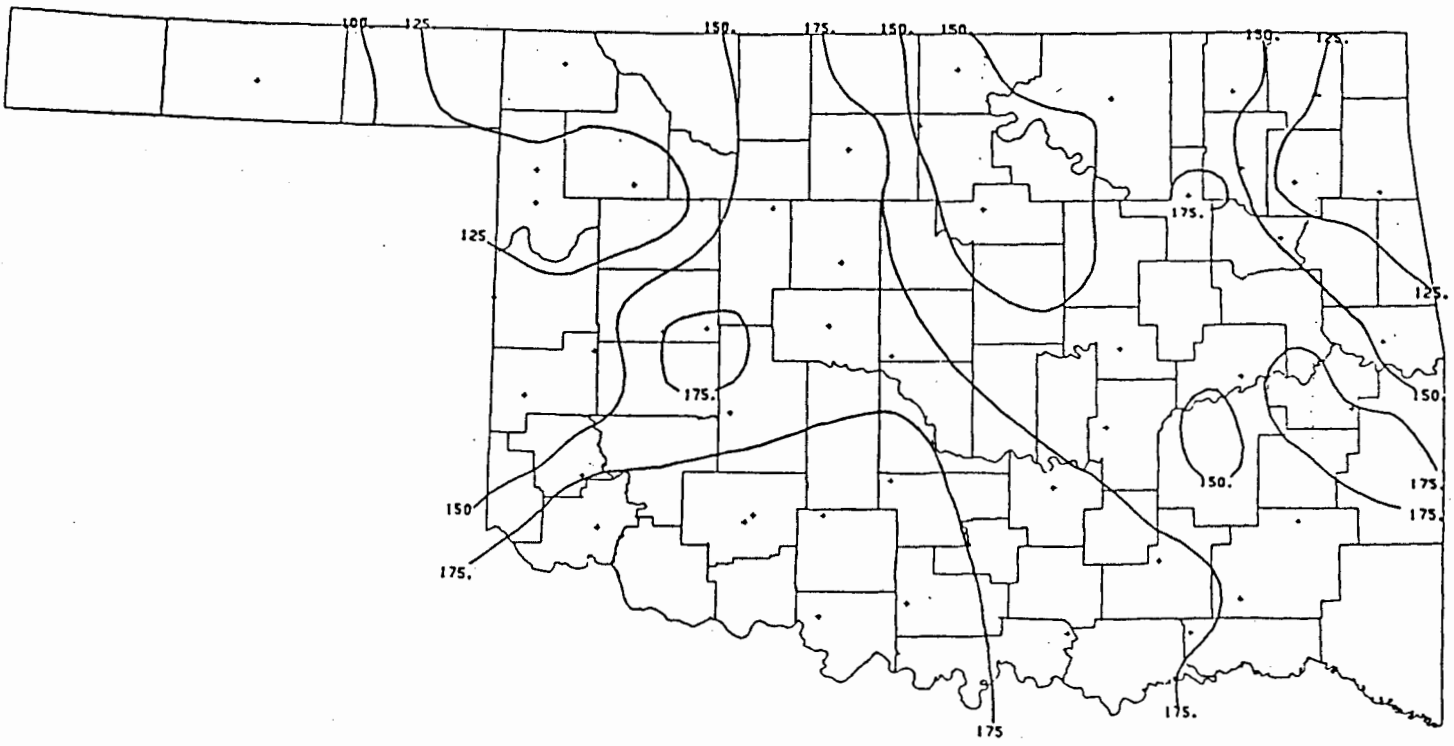
CLIMATE DIV	MEAN TEMP	NUM STA	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEGREE DAYS	DEV FROM NORM	COOL DEGREE DAYS	DEV FROM NORM	TOT PPT	NUM STA	DEV FROM NORM	MAX 24-HR	DAY
1	64.7	11	-1.2	93.0	16	31.0	4	100.7	6.0	90.4	-31.6	1.95	15	-1.55	3.05	31
2	69.2	15	.7	94.0	13	37.0	4	32.6	-18.5	163.5	2.8	1.46	25	-2.91	6.90	9
3	69.1	18	.8	95.0	30	40.0	5	19.4	-30.2	143.2	-7.2	5.02	34	.16	99.90	1
4	68.5	11	-.2	93.0	18	38.0	9	36.7	-8.9	144.6	-16.9	.76	22	-4.00	1.64	31
5	69.8	15	.8	93.0	17	42.0	5	18.8	-17.4	167.1	4.3	.94	37	-4.53	1.45	16
6	69.3	12	.0	92.0	17	39.0	5	16.7	-17.0	149.3	-16.8	1.57	29	-3.84	2.95	21
7	70.5	12	-.2	97.0	15	41.0	4	15.3	-7.6	181.3	-18.8	.50	23	-4.47	1.20	1
8	70.5	17	-.6	96.0	19	43.0	5	12.5	-2.7	178.4	-25.8	.50	32	-4.83	1.11	31
9	69.3	8	-1.3	94.0	17	36.0	26	15.9	-.7	146.6	-41.8	1.47	17	-4.21	2.45	22



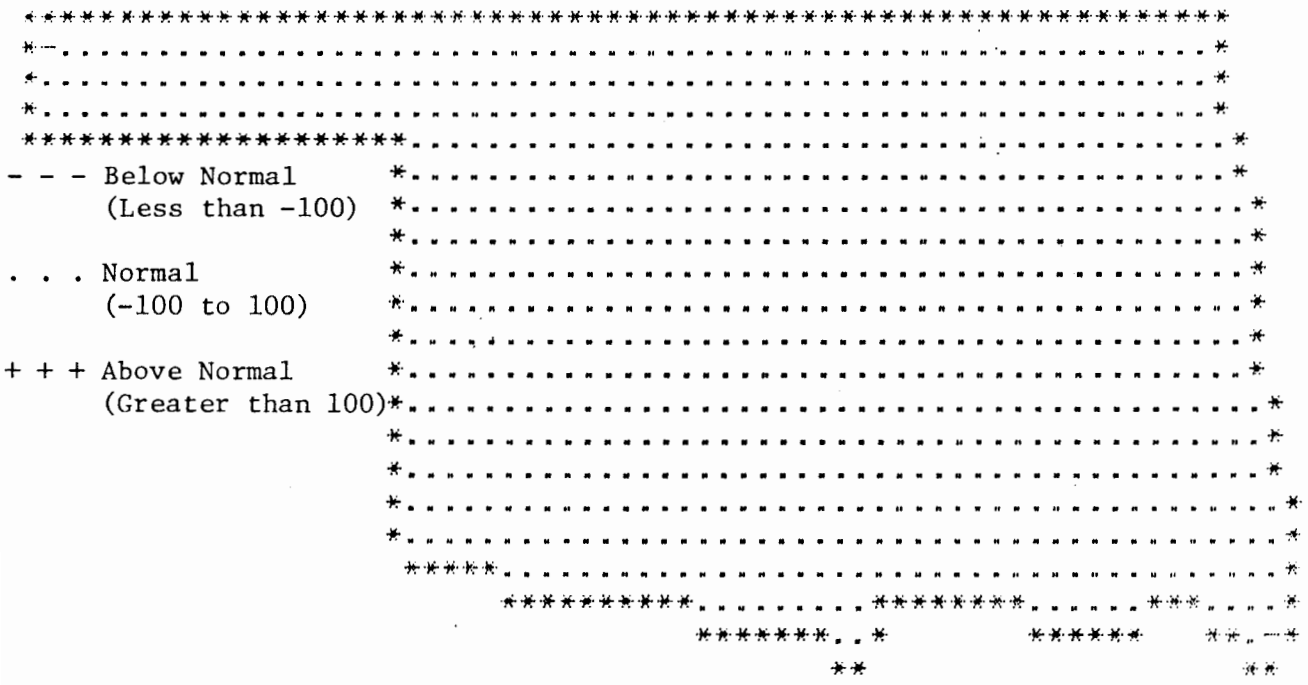
MAY 1988 AVERAGE MONTHLY TEMPERATURE
(Degrees F)



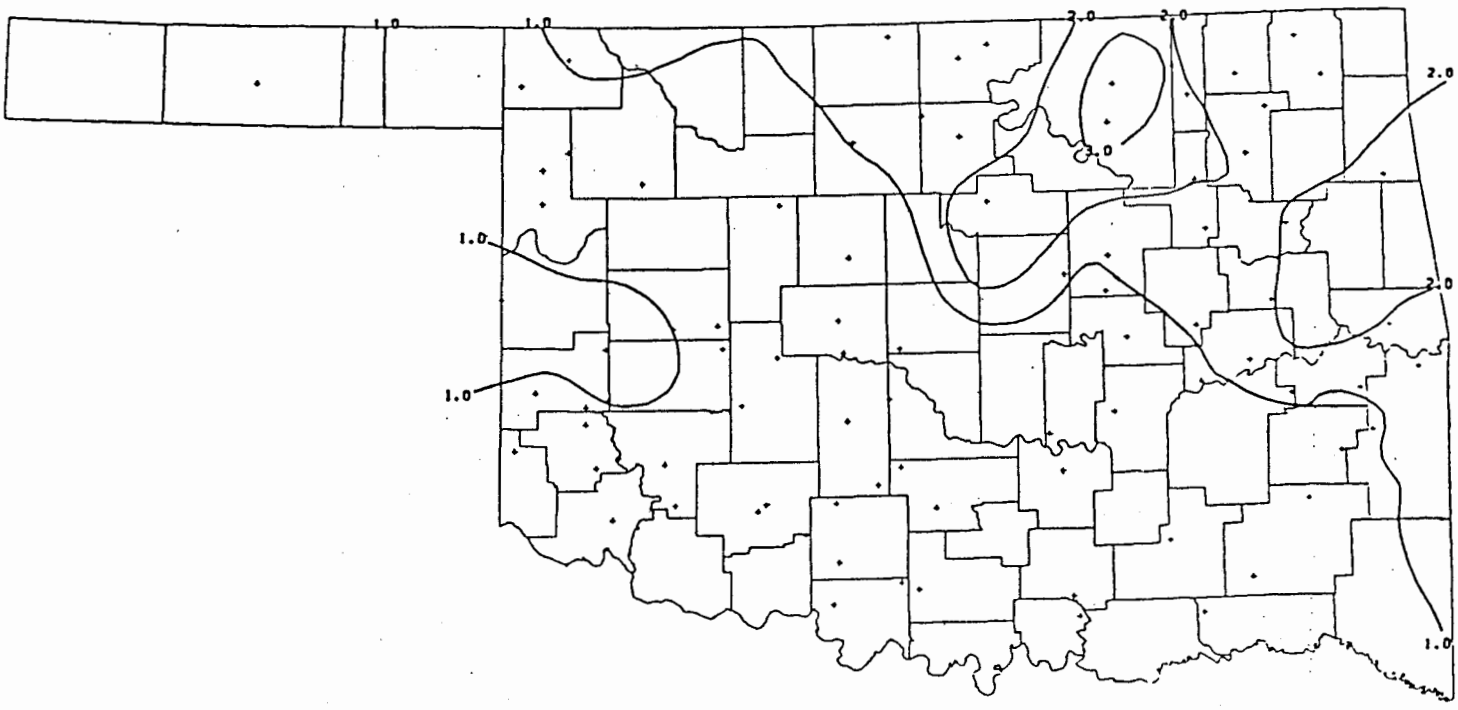
MAY 1988 DEVIATION FROM NORMAL TEMPERATURES



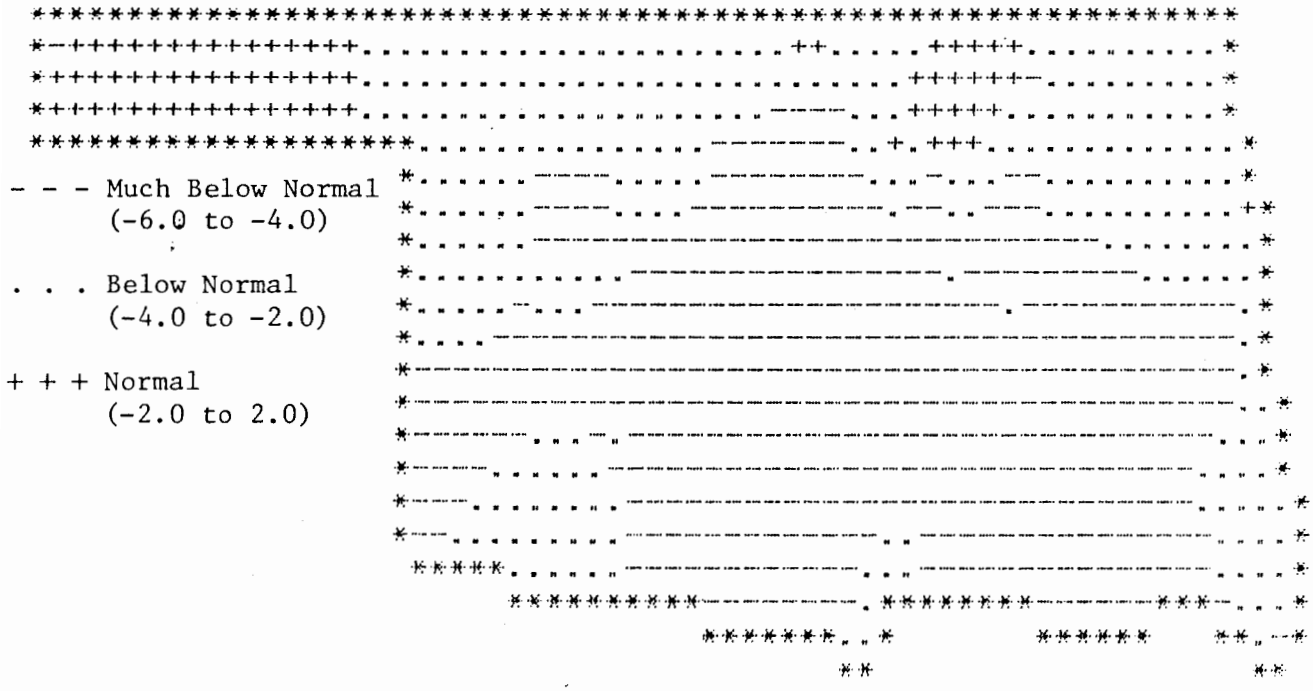
MAY 1988 TOTAL COOLING DEGREE DAYS



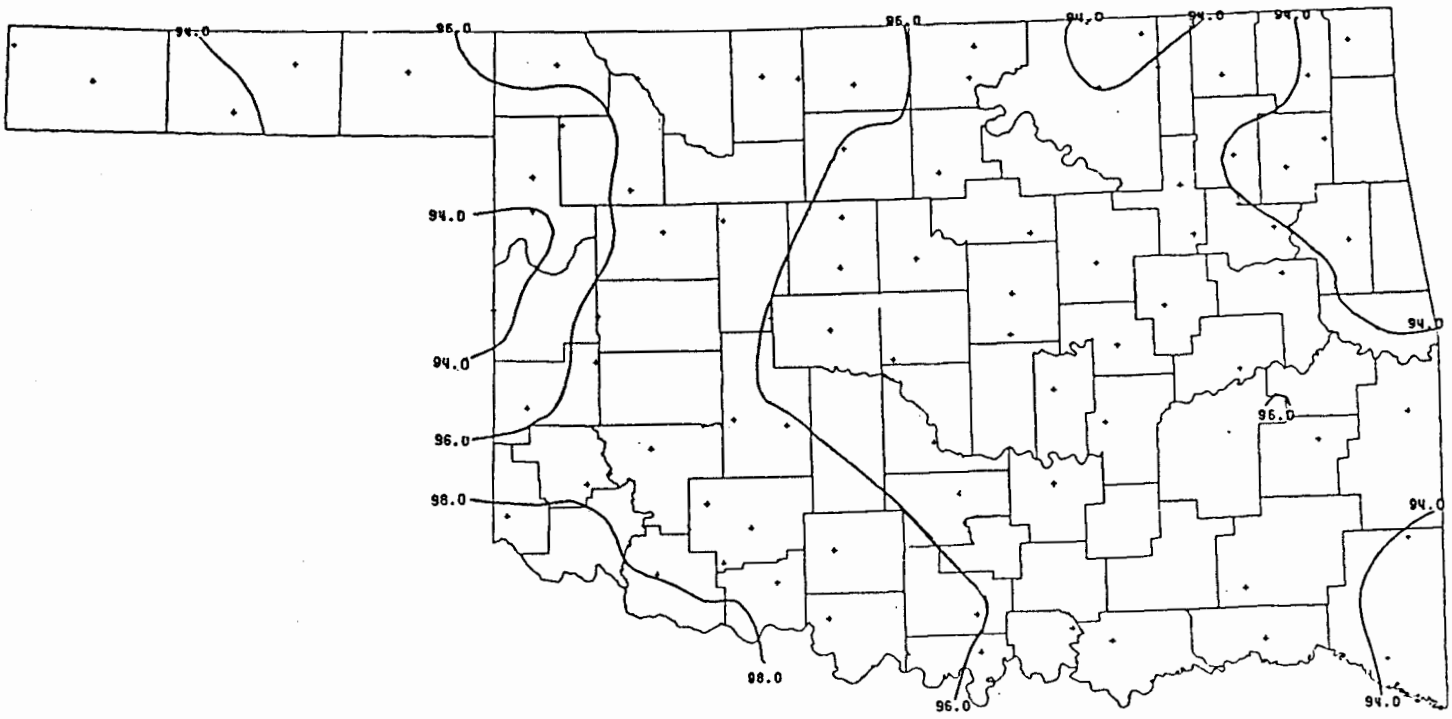
MAY 1988 DEVIATION FROM NORMAL COOLING DEGREE DAYS



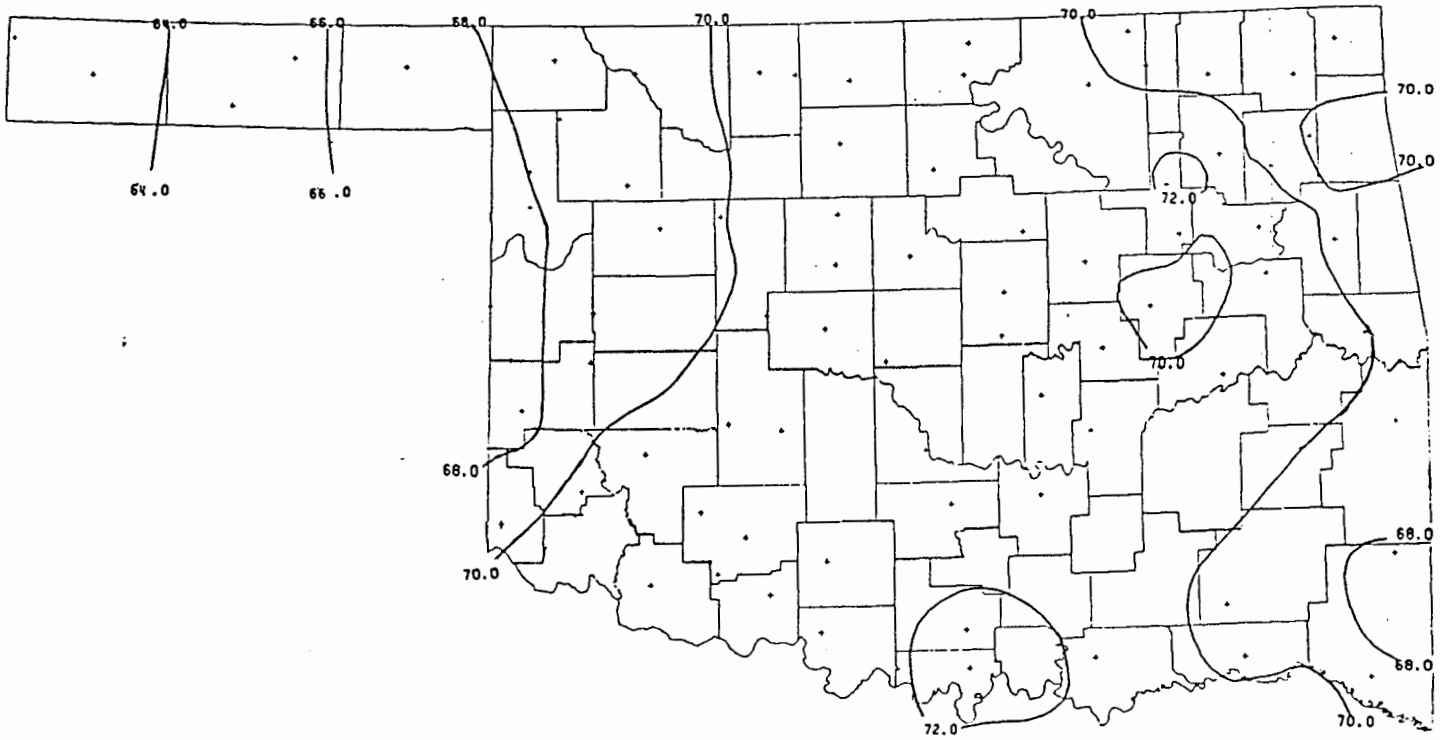
MAY 1988 TOTAL PRECIPITATION
(Inches)



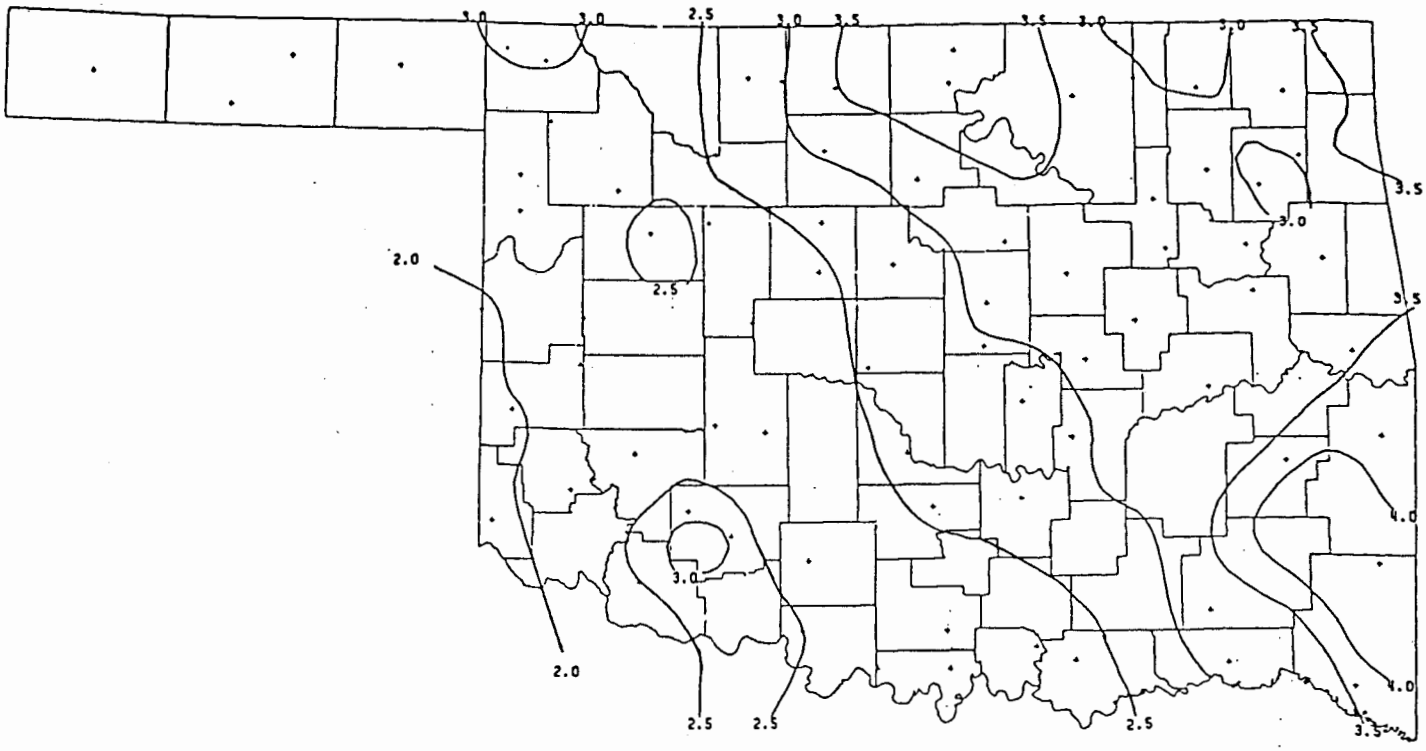
MAY 1988 DEVIATION FROM NORMAL PRECIPITATION



30-YEAR MEAN JULY DAILY MAXIMUM TEMPERATURE



30-YEAR MEAN JULY DAILY MINIMUM TEMPERATURE



30-YEAR MEAN JULY PRECIPITATION

NATIONAL WEATHER SERVICE 30 and 90-DAY OUTLOOK

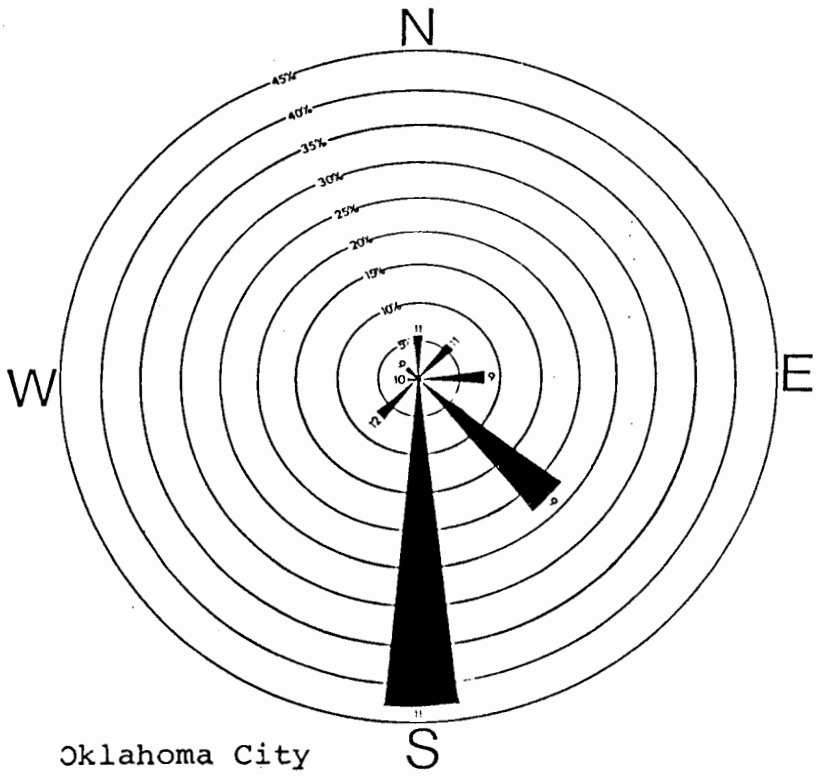
30-Day Outlook (June)

Precipitation - Near normal Statewide.
Temperature - Above normal in the north and near normal elsewhere.

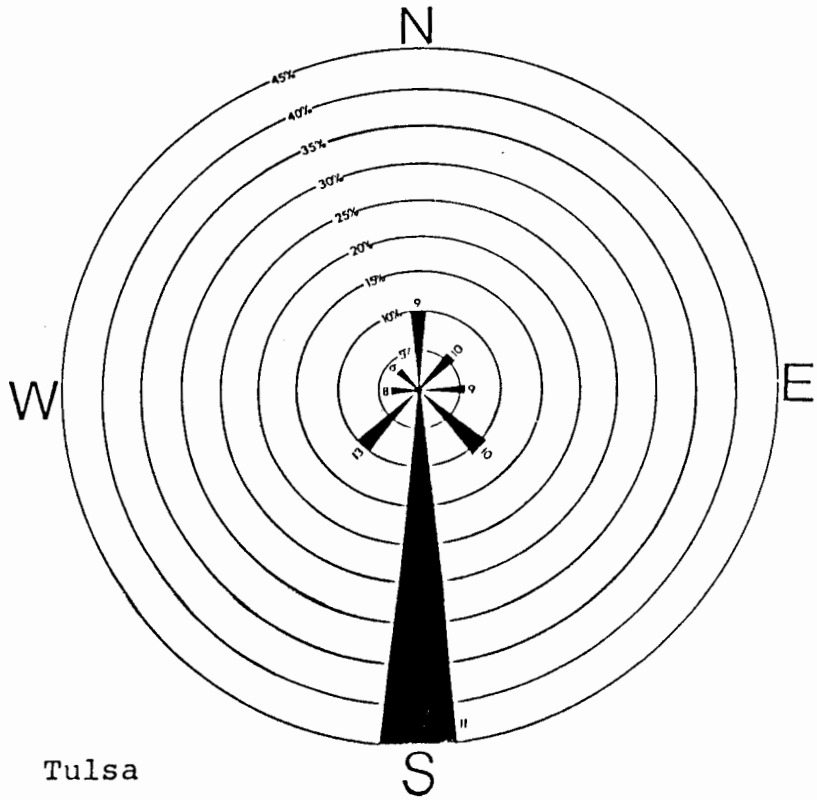
90-Day Outlook (June-August)

Precipitation - Above normal in the far western Panhandle and near normal elsewhere.
Temperature - Below normal in the Panhandle and near normal elsewhere.

July 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

JULY 1988
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
90.6	max	____
69.5	min	____
.264	pcpn	____
0	HDD	____
15	CDD	____
Highest Max		102-1980
Lowest Max		69-1951
Lowest Min		57-1951
Highest Min		78-1931
Greatest pcpn		3.35-1940

Normal	2	Actual
92.6	max	____
70.4	min	____
.059	pcpn	____
0	HDD	____
17	CDD	____
Highest Max		105-1948
Lowest Max		81-1948
Lowest Min		61-1945
Highest Min		78-1980
Greatest pcpn		1.61-1972

Normal	3	Actual
92.9	max	____
71.0	min	____
.078	pcpn	____
0	HDD	____
17	CDD	____
Highest Max		103-1980
Lowest Max		80-1941
Lowest Min		62-1968
Highest Min		78-1933
Greatest pcpn		2.97-1947

Normal	4	Actual
91.4	max	____
69.2	min	____
.093	pcpn	____
0	HDD	____
16	CDD	____
Highest Max		102-1934
Lowest Max		76-1972
Lowest Min		59-1940
Highest Min		80-1933
Greatest pcpn		.95-1960

Normal	5	Actual
91.4	max	____
68.8	min	____
.139	pcpn	____
0	HDD	____
15	CDD	____
Highest Max		102-1966
Lowest Max		77-1958
Lowest Min		57-1942
Highest Min		80-1933
Greatest pcpn		3.21-1979

Normal	6	Actual
92.1	max	____
69.5	min	____
.070	pcpn	____
0	HDD	____
16	CDD	____
Highest Max		102-1953
Lowest Max		73-1958
Lowest Min		55-1972
Highest Min		77-1986
Greatest pcpn		1.84-1929

Normal	7	Actual
93.0	max	____
69.9	min	____
.081	pcpn	____
0	HDD	____
17	CDD	____
Highest Max		105-1970
Lowest Max		76-1960
Lowest Min		57-1952
Highest Min		77-1963
Greatest pcpn		1.39-1953

Normal	8	Actual
93.1	max	____
70.3	min	____
.047	pcpn	____
0	HDD	____
17	CDD	____
Highest Max		105-1964
Lowest Max		82-1958
Lowest Min		57-1958
Highest Min		78-1931
Greatest pcpn		1.32-1959

Normal	9	Actual
93.1	max	____
70.4	min	____
.045	pcpn	____
0	HDD	____
17	CDD	____
Highest Max		106-1964
Lowest Max		81-1961
Lowest Min		61-1952
Highest Min		80-1933
Greatest pcpn		1.88-1926

Normal	10	Actual
93.2	max	____
69.9	min	____
.066	pcpn	____
0	HDD	____
17	CDD	____
Highest Max		104-1933
Lowest Max		76-1953
Lowest Min		58-1961
Highest Min		80-1933
Greatest pcpn		1.90-1945

Normal	11	Actual
93.4	max	____
70.4	min	____
.031	pcpn	____
0	HDD	____
17	CDD	____
Highest Max		107-1933
Lowest Max		76-1953
Lowest Min		58-1931
Highest Min		81-1933
Greatest pcpn		.83-1940

Normal	12	Actual
92.6	max	____
70.1	min	____
.091	pcpn	____
0	HDD	____
17	CDD	____
Highest Max		107-1954
Lowest Max		64-1953
Lowest Min		56-1953
Highest Min		82-1933
Greatest pcpn		1.80-1926

Normal	13	Actual
93.2	max	____
69.8	min	____
.161	pcpn	____
0	HDD	____
17	CDD	____
Highest Max		106-1954
Lowest Max		73-1953
Lowest Min		56-1975
Highest Min		81-1934
Greatest pcpn		2.10-1963

Normal	14	Actual
92.9	max	____
69.6	min	____
.077	pcpn	____
0	HDD	____
17	CDD	____
Highest Max		107-1954
Lowest Max		80-1926
Lowest Min		58-1926
Highest Min		80-1934
Greatest pcpn		.71-1961

Normal	15	Actual
92.1	max	____
70.4	min	____
.096	pcpn	____
0	HDD	____
16	CDD	____
Highest Max		108-1936
Lowest Max		80-1952
Lowest Min		59-1967
Highest Min		82-1936
Greatest pcpn		1.70-1938

Normal	16	Actual
93.2	max	____
70.5	min	____
.056	pcpn	____
0	HDD	____
17	CDD	____
Highest Max		106-1980
Lowest Max		74-1967
Lowest Min		64-1926
Highest Min		79-1939
Greatest pcpn		.61-1953

Normal	17	Actual
93.2	max	____
70.3	min	____
.171	pcpn	____
0	HDD	____
17	CDD	____
Highest Max		106-1980
Lowest Max		80-1950
Lowest Min		63-1967
Highest Min		79-1943
Greatest pcpn		1.71-1959

Normal	18	Actual
93.2	max	____
71.5	min	____
.029	pcpn	____
0	HDD	____
18	CDD	____
Highest Max		108-1936
Lowest Max		72-1967
Lowest Min		64-1931
Highest Min		81-1936
Greatest pcpn		.70-1931

Normal	19	Actual
92.9	max	____
71.3	min	____
.078	pcpn	____
0	HDD	____
17	CDD	____
Highest Max		109-1936
Lowest Max		74-1953
Lowest Min		63-1931
Highest Min		82-1936
Greatest pcpn		.81-1953

Normal	20	Actual
93.0	max	____
70.3	min	____
.073	pcpn	____
0	HDD	____
17	CDD	____
Highest Max		107-1936
Lowest Max		77-1944
Lowest Min		60-1970
Highest Min		77-1930
Greatest pcpn		1.15-1973

Normal	21	Actual
92.7	max	____
70.1	min	____
.181	pcpn	____
0	HDD	____
17	CDD	____
Highest Max		107-1939
Lowest Max		78-1970
Lowest Min		54-1970
Highest Min		80-1981
Greatest pcpn		1.64-1950

Normal	22	Actual
92.9	max	____
70.7	min	____
.124	pcpn	____
0	HDD	____
17	CDD	____
Highest Max		107-1974
Lowest Max		79-1960
Lowest Min		57-1970
Highest Min		79-1981
Greatest pcpn		1.00-1960

Normal	23	Actual
92.7	max	____
70.2	min	____
.217	pcpn	____
0	HDD	____
17	CDD	____
Highest Max		104-1943
Lowest Max		77-1947
Lowest Min		55-1970
Highest Min		79-1943
Greatest pcpn		3.02-1960

Normal	24	Actual
93.2	max	____
71.2	min	____
.107	pcpn	____
0	HDD	____
17	CDD	____
Highest Max		106-1943
Lowest Max		73-1947
Lowest Min		61-1927
Highest Min		78-1934
Greatest pcpn		2.92-1975

Normal	25	Actual
93.9	max	____
71.5	min	____
.092	pcpn	____
0	HDD	____
18	CDD	____
Highest Max		106-1977
Lowest Max		78-1926
Lowest Min		66-1927
Highest Min		83-1934
Greatest pcpn		1.48-1950

Normal	26	Actual
93.4	max	____
71.7	min	____
.091	pcpn	____
0	HDD	____
18	CDD	____
Highest Max		106-1978
Lowest Max		75-1959
Lowest Min		64-1933
Highest Min		78-1930
Greatest pcpn		.88-1978

Normal	27	Actual
93.9	max	____
71.1	min	____
.137	pcpn	____
0	HDD	____
18	CDD	____
Highest Max		105-1986
Lowest Max		75-1959
Lowest Min		65-1933
Highest Min		78-1931
Greatest pcpn		1.88-1977

Normal	28	Actual
92.3	max	____
70.8	min	____
.204	pcpn	____
0	HDD	____
17	CDD	____
Highest Max		108-1986
Lowest Max		75-1981
Lowest Min		61-1931
Highest Min		80-1946
Greatest pcpn		5.75-1981

Normal	29	Actual
92.9	max	____
70.4	min	____
.205	pcpn	____
0	HDD	____
17	CDD	____
Highest Max		108-1986
Lowest Max		82-1927
Lowest Min		57-1931
Highest Min		79-1966
Greatest pcpn		2.02-1975

Normal	30	Actual
93.1	max	____
70.7	min	____
.046	pcpn	____
0	HDD	____
17	CDD	____
Highest Max		108-1986
Lowest Max		79-1933
Lowest Min		57-1971
Highest Min		80-1986
Greatest pcpn		.71-1936

Normal	31	Actual
92.6	max	____
70.4	min	____
.069	pcpn	____
0	HDD	____
17	CDD	____
Highest Max		107-1980
Lowest Max		83-1933
Lowest Min		53-1971
Highest Min		79-1943
Greatest pcpn		1.07-1978