

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 NOVEMBER 1986

November was notably cooler Statewide with climate division average temperatures ranging from 2 to 4.4 degrees below normal. Rainfall amounts exceeded monthly averages in all climate divisions as a result of 1 or 2 prolific rain producing systems during the month.

Many Oklahoma stations reported their monthly high temperatures on the first day of the month before a cold front moved through the State on that day. The front lowered temperatures to closer to normal for the next couple of days. A low later strengthened along the front in north Texas and the associated cloudy skies, cooler temperatures and heavy rains affected Oklahoma as the low moved northeastward. Rainfall amounts recorded on the 4th alone surpassed averages for the entire month of November for at least one station in each of the six western-most climate divisions. Amounts included Arnett 2.69 inches, Woodward 2.27 inches, Okeene 2.33 inches, Chickasha 1.86 inches, and Ada 2.71 inches.

On the 10th a massive high pressure system with record-breaking cold air began entering Oklahoma. Temperatures fell as rapidly as 12 degrees in two hours at Lawton on the 11th. Temperatures below 20 degrees were common Statewide the next two mornings. Enid's low of 15 degrees on the 11th broke the City's previous record by 2 degrees. Strong winds accompanying the arctic air mass lowered wind chill factors to -15 degrees in north central Oklahoma. Each climate division recorded its lowest temperature of the month on the 12th or 13th. On the 13th,

Miami, in climate division 3, reported the month's lowest temperature of 8 degrees.

Across the State, temperatures remained as much as 20 degrees below normal for several days as the weak southerly winds brought only a very gradual warming. These winds brought enough gulf moisture into the State to produce a very dense fog which blanketed much of Oklahoma on the 17th. Low visibility forced numerous commercial flight cancellations at the Oklahoma City and Tulsa airports. Low visibility also created hazards on the road, including an accident involving 23 vehicles in Pottawatomie County. In Oklahoma City alone traffic officers investigated 45 accidents in the two hour period from 7 to 9 a.m. Fog also developed the following morning. Clearing skies on the 20th helped temperatures rise to near normal.

Warmer temperatures did not last long, however, as a pair of cold fronts swept through the State over the next few days. These fronts produced little rainfall with reports varying from a trace in the north to near a quarter inch in the South. Greater rainfall fell on the 25th and 26th as a result of an upper level low to the southwest of Oklahoma and a surface front over the State. The reports of the greatest rainfall came from the southeastern two thirds of the State where 2 day totals included Elmore City 2.27 inches, Perry 2.37 inches, Antlers 2.35 inches, Pawhuska 2.16 inches, and Norman and Frederick 2.00 inches.

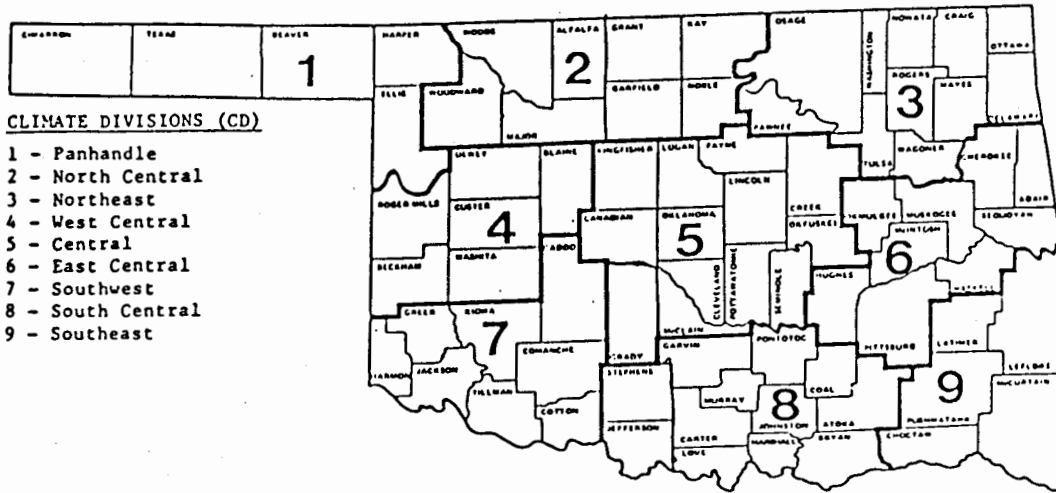
After the passage of the front and with the weakening of the upper level low the weather remained dry and temperatures increased to several degrees above normal Statewide for the remaining few days of November.

TABLE OF 1985/1986 COMPARISONS

Station	November Temperatures (F)		November Precipitation (in.)	
	1985	1986	1985	1986
Goodwell	40.0	41.9	.391	2.144
Lahoma	43.3	41.3	2.740	2.481
Mutual	41.3	41.7	1.432	3.231
Tulsa	48.9	44.2	5.747	2.934
Elk City	43.4	43.9	1.092	1.785
Oklahoma City	46.7	45.6	3.268	4.635
McAlester	52.7	48.0	5.355	2.661
Altus Irr. Sta.	49.9	48.8	1.063	2.670
Durant	55.5	50.3	3.552	4.850
Ada	51.0	47.3	2.383	4.972
Tuskahoma	54.9	49.4	9.692	2.991

EXTREMES

Variable	Station	Division	Observation	Date
Minimum temperature (F)	Miami	3	8	13
Maximum temperature (F)	Durant	1	80	1
Maximum 24-hour precipitation	Bokchito	8	3.00"	25



EXPLANATION OF TABLES

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

- Station Name:
- Station Identification Number: These are usually assigned by the National Climatic Data Center.
- Climate Division: See the figure above.
- Number of Temperature Observations: These are the actual number of temperature reports recorded at the station during the current month. Missing observations may result in artificially high or low mean monthly temperatures.
- Deviation from Normal: The deviation of the observed mean monthly temperature from the monthly station normal. A positive value indicates the month was warmer than normal. A negative value indicates the month was cooler than normal. Normal monthly temperatures may be calculated by subtracting the deviation from the observed temperature.
- Maximum Daily Maximum: The maximum daily maximum temperature observed during the current month and year and the day which it occurred.
- Minimum Daily Minimum: The minimum daily minimum temperature observed during the current month and year and the day which it occurred.
- Heating Degree Days: HDD are calculated each day of the month for which there is a temperature report and summed. They are a qualitative measure of how much heat was required to maintain an indoor temperature of 65 degrees. Missing observations may result in an artificially high or low value. For February 1984 HDD would be calculated as:

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

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

Cooling Degree Days: CDD are calculated each day of the month for which there is a temperature report and summed. They are a proxy measure of how much cooling was required to maintain an indoor temperature of 65 degrees. Missing observations may result in an artificially high or low value. For June, CDD would be calculated as:

$$\sum_{i=1}^{30} ((TMAX_i + TMIN_i)/2 - 65)$$

Deviation from normal cooling Degree Days: A positive value indicates higher than normal cooling requirements for the month as a whole. A negative value indicates lower than normal cooling requirements for the month as a whole. Normal cooling degree days may be found by subtracting the deviation from the observed cooling degree days.

Total Precipitation: Often incorrectly referred to as mean precipitation, this value is the sum of all precipitation reported during the month at a station. If snow occurred, it is to be melted and its water equivalent recorded.

Number of Precipitation Observations: The number of days a rain or no-rain observation was reported. Missing observations frequently result in artificially low total precipitation values.

Deviation from Normal Precipitation: A positive value indicates more rain than normal was received. A negative value indicates less than was expected rainfall was received. Normal rainfall may be calculated by subtracting the deviation from monthly total.

Maximum 24-Hour Report and Day: The maximum amount of precipitation recorded during the station's 24-hour observation period for the current month and year and the day on which it was recorded.

The second set of tables contain similar information but are the average or extreme over all the stations reporting in each climate division.

#### EXPLANATION OF MAPS

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

NOVEMBER 1936 SUMMARY FOR NORTHWEST DIVISION (CD1)

NAME	ID	DIV	DEV				HEAT		DEV		COOL		DEV		TOT PPT	NUM OBS	DEV		24-HR DAY
			MEAN TEMP	NUM OBS	FROM NORM	MAX TEMP	MIN DAY	DEG DAY	FROM NORM	DEG DAY	FROM NORM	DEG DAY	FROM NORM	FROM NORM			MAX		
ARNETT	332	1	42.4	29	-3.3	71.	28	9.	14	656.0	77.0	0.0	0.0	3.071	30	1.98	2.69	4	
BEAVER	593	1	42.7	29	-1.9	75.	29	9.	14	647.5	35.5	0.0	0.0	2.130	30	1.24	1.24	4	
BOISE CITY	908	1	43.0	30	-.9	73.	17	14.	13	659.0	26.0	0.0	0.0	2.100	30	1.47	1.20	4	
BUFFALO	1243	1	44.6	30	-2.4	75.	19	10.	13	612.5	72.5	0.0	0.0	3.550	30	2.22	2.00	4	
FARGO	3070	1	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.620	30	1.60	2.02	4	
GAGE	3407	1	43.2	30	-2.0	72.	29	9.	13	652.5	61.5	0.0	0.0	2.523	30	1.60	2.03	4	
GATE	3489	1	43.9	29	999.0	76.	18	10.	12	612.0	9999.0	0.0	9999.0	2.610	30	99.99	1.31	3	
GOODWELL RES. STA.	3620	1	41.9	29	-2.4	76.	19	9.	14	671.0	50.0	0.0	0.0	2.144	30	1.50	.93	5	
BUYMON	3835	1	43.0	30	999.0	78.	19	10.	13	660.0	9999.0	0.0	9999.0	1.982	30	99.99	.79	4	
HOOKER	4298	1	42.6	30	-1.5	75.	20	10.	14	671.0	44.0	0.0	0.0	1.500	30	.74	.73	4	
KENTON	4766	1	41.1	29	-2.8	74.	17	15.	11	693.0	60.0	0.0	0.0	2.040	30	1.51	.66	4	
LAVERNE	5045	1	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.611	30	1.62	1.57	4	
REGNIER	7534	1	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.650	30	1.14	.75	4	

NOVEMBER 1986 SUMMARY FOR NORTH CENTRAL DIVISION (CD2)

NAME	ID	DIV	DEV				HEAT		DEV		COOL		DEV		TOT PPT	NUM OBS	DEV		24-HR DAY
			MEAN TEMP	NUM OBS	FROM NORM	MAX TEMP	MIN DAY	DEG DAY	FROM NORM	DEG DAY	FROM NORM	DEG DAY	FROM NORM	FROM NORM			MAX		
ALVA	194	2	43.0	30	-4.4	73.	29	9.	13	659.5	131.5	0.0	0.0	2.040	30	.84	1.52	4	
BILLINGS	755	2	42.8	29	999.0	67.	7	12.	14	645.0	9999.0	0.0	9999.0	3.812	30	1.92	1.70	4	
BLACKWELL	818	2	42.5	29	999.0	65.	29	9.	13	653.0	9999.0	0.0	9999.0	2.362	30	99.99	1.30	4	
CEDARDALE	1620	2	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.071	30	99.99	2.06	4	
CHEROKEE	1724	2	44.1	30	-3.2	70.	1	12.	13	628.0	97.0	0.0	0.0	1.961	30	.68	1.80	4	
ENID	2912	2	42.9	30	-5.6	67.	29	11.	13	663.5	168.5	0.0	0.0	3.230	30	1.45	1.81	4	
FT SUPPLY DAM	3304	2	41.7	29	-5.4	70.	28	8.	13	676.0	139.0	0.0	0.0	2.720	29	1.80	1.85	4	
FREEDOM	3358	2	42.9	28	999.0	72.	29	9.	13	618.0	9999.0	0.0	9999.0	2.280	30	99.99	1.41	4	
GSP DAM	3740	2	42.7	29	999.0	69.	7	9.	14	645.5	9999.0	0.0	9999.0	2.400	30	.95	1.63	4	
HARDY	3909	2	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.164	30	99.99	1.44	4	
HELENA	4019	2	42.4	29	999.0	67.	29	12.	14	655.0	9999.0	0.0	9999.0	2.912	30	1.37	1.86	4	
JEFFERSON	4573	2	43.2	30	-4.6	68.	29	12.	13	654.0	138.0	0.0	0.0	3.100	30	1.18	1.71	3	
LAHOMA AG	4950	2	41.3	25	999.0	71.	3	10.	14	592.5	9999.0	0.0	9999.0	2.481	29	99.99	1.64	4	
LAMONT	5013	2	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.361	30	99.99	1.38	4	
MEDFORD	5768	2	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.570	30	99.99	.95	2	
MORRISON	6065	2	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.300	30	99.99	2.06	26	
MUTUAL	6139	2	41.7	29	-4.9	69.	29	10.	13	676.5	124.5	0.0	0.0	3.231	30	2.08	2.45	4	
NEWKIRK	6270	2	43.8	30	-3.6	67.	8	9.	13	634.5	106.5	0.0	0.0	3.090	30	1.15	1.65	4	
ORIENTA	6751	2	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.740	30	99.99	1.64	4	
PERRY	7012	2	44.9	30	-4.7	71.	1	12.	13	602.0	140.0	0.0	0.0	5.070	30	3.27	2.37	26	
PONCA CITY	7201	2	44.1	28	-2.5	66.	29	11.	13	586.0	34.0	0.0	0.0	2.493	29	.44	.91	26	
RED ROCK	7505	2	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.450	30	2.73	2.00	26	
WAYNOKA	9404	2	42.2	30	-5.7	71.	7	9.	13	683.0	170.0	0.0	0.0	2.700	30	1.42	2.02	4	
WOODWARD	9760	2	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.021	30	1.93	2.27	4	

Note: 9999.0, 999.0, 99.99 indicate missing records.

Trace = .001

### NOVEMBER 1936 SUMMARY FOR NORTHEAST DIVISION (CD3)

NAME	ID	DIV	DEV			HEAT		DEV		COOL		DEV		TOT PPT	NUM OBS	DEV		24-HR DAY
			MEAN TEMP	NUM OBS	FROM NORM	MAX TEMP	DAY	DEG	FROM NORM	DEG	FROM NORM	DEG	FROM NORM			MAX		
BARNSDALL	535	3	43.7	29	999.0	70.	1	10.	13	618.5	9999.0	0.0	9999.0	4.083	30	1.76	1.64	25
BARTLESVILLE	548	3	43.5	30	-4.8	72.	1	11.	13	646.5	145.5	0.0	0.0	3.940	30	1.69	1.65	26
BIXBY	782	3	43.0	27	-5.7	76.	1	12.	14	593.0	104.0	0.0	0.0	3.390	29	.66	.94	26
CHELSEA	1717	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.270	30	99.99	1.03	26
CLAREMORE	1828	3	42.8	29	-5.6	74.	1	13.	14	645.0	147.0	0.0	0.0	3.362	30	.57	1.35	26
CLEVELAND	1902	3	45.0	26	999.0	73.	1	10.	13	498.5	9999.0	0.0	9999.0	1.540	26	99.99	1.17	4
HOLLOW	4258	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.041	30	.05	1.16	26
HOMINY	4289	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.350	30	2.29	1.07	26
KANSAS	4672	3	45.6	30	999.0	73.	1	9.	13	581.0	9999.0	0.0	9999.0	2.469	30	99.99	.76	4
KEYSTONE	4812	3	41.1	14	999.0	73.	1	7.	13	335.0	9999.0	0.0	9999.0	3.290	21	99.99	1.14	26
LENAPAH	5118	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.320	30	99.99	1.85	25
MANNFORD	5522	3	44.8	30	999.0	75.	1	10.	13	606.5	9999.0	0.0	9999.0	3.740	30	99.99	1.42	26
MARAMEC	5540	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.200	30	2.19	2.11	26
MIAMI	5855	3	41.0	29	-7.4	68.	16	8.	13	676.5	198.5	0.0	0.0	2.150	30	-.80	.74	25
NOWATA	6485	3	43.8	29	-4.0	74.	1	10.	13	616.0	124.0	0.0	0.0	3.870	30	1.32	1.25	26
ONETA	6713	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.273	30	99.99	.87	26
PAWUSKA	6937	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.321	30	99.99	2.16	26
PAWNEE	6940	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.120	30	2.24	2.00	26
PRYOR	7309	3	40.7	23	-7.5	69.	17	10.	14	560.0	56.0	0.0	0.0	2.986	30	.09	1.03	26
RAMONA	7394	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.580	30	99.99	1.41	26
RALSTON	7390	3	45.1	30	999.0	69.	29	11.	13	597.5	9999.0	0.0	9999.0	4.330	30	2.38	2.30	26
SKIATOOK	8258	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.480	30	1.13	1.15	25
SPAVINAW LAKE	8382	3	47.0	29	999.0	75.	2	9.	14	522.0	9999.0	0.0	9999.0	2.643	29	99.99	.70	11
STILWELL	8506	3	46.3	30	999.0	73.	1	10.	13	560.5	9999.0	0.0	9999.0	3.335	30	.08	1.52	5
TULSA	8992	3	44.2	30	-5.0	74.	1	13.	13	624.0	150.0	0.0	0.0	2.934	30	.37	1.03	26
VINITA	9203	3	44.2	30	-3.7	73.	1	11.	13	624.5	111.5	0.0	0.0	2.840	30	-.12	.86	26
WAGONER	9247	3	46.2	30	-3.9	74.	1	12.	13	565.5	118.5	0.0	0.0	3.310	30	.11	1.14	26
WANN	9290	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.380	30	99.99	1.66	25
WYMONA	9792	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.224	30	99.99	2.00	26

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

NOVEMBER 1936 SUMMARY FOR WEST CENTRAL DIVISION (CD4)

NAME	ID	DIV	DEV				HEAT		DEV		COOL		DEV		TOT PPT	NUM OBS	FROM NORM	MAX 24-HR	DAY
			MEAN TEMP	NUM OBS	FROM NORM	MAX TEMP	DEG DAY	FROM NORM	DEG DAY	FROM NORM	DEG DAY								
CANTON DAM	1445	4	42.6	29	-5.8	69.	7	11.	13	648.5	150.5	0.0	0.0	2.860	30	1.30	2.27	4	
CLINTON	1909	4	46.3	30	-2.2	72.	7	14.	13	560.0	65.0	0.0	0.0	2.971	30	1.50	1.65	4	
COLONY	2039	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.910	30	99.99	1.04	4	
CORDELL	2125	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.230	30	.84	1.34	4	
ELK CITY	2849	4	43.9	30	999.0	70.	15	12.	12	633.5	9999.0	0.0	9999.0	1.785	30	.43	1.40	4	
ERICK	2944	4	45.3	30	-3.1	72.	17	14.	13	591.5	93.5	0.0	0.0	2.401	30	1.41	2.23	4	
GEARY	3497	4	42.2	27	-6.6	67.	29	13.	14	616.0	130.0	0.0	0.0	3.000	30	1.59	2.00	4	
HAMMON	3871	4	42.6	29	-4.9	70.	29	12.	13	651.0	126.0	0.0	0.0	2.670	30	1.28	2.25	4	
MORAVIA	6035	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.810	30	.76	1.27	4	
OKEENE	6629	4	44.2	30	-4.9	69.	29	14.	13	624.0	147.0	0.0	0.0	3.450	30	1.85	2.33	4	
RETROP	7565	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.890	30	99.99	1.30	4	
REYDON	7579	4	44.6	20	999.0	72.	17	10.	13	407.5	9999.0	0.0	9999.0	2.190	20	1.23	2.10	4	
SAYRE	7952	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.730	30	.64	1.73	4	
REYDON	7975	4	44.6	20	999.0	72.	17	10.	13	407.5	9999.0	0.0	9999.0	2.190	20	99.99	2.10	4	
SWEETWATER	8652	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.860	30	99.99	1.76	4	
TALOGA	8700	4	42.9	30	-4.1	70.	29	10.	12	664.0	124.0	0.0	0.0	2.790	30	1.32	2.22	4	
THOMAS	8815	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.730	30	99.99	1.83	4	
VICI	9172	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.391	30	99.99	2.62	4	
WATONGA	9364	4	44.4	30	999.0	69.	29	13.	13	617.0	9999.0	0.0	9999.0	2.932	30	1.51	1.80	4	
WEATHERFORD	9422	4	43.7	29	-5.2	70.	7	13.	14	618.0	135.0	0.0	0.0	2.474	30	1.11	1.69	4	

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



## NOVEMBER 1936 SUMMARY FOR CENTRAL DIVISION (CD5)

NAME	ID	DIV	DEV				MIN DAY	HEAT DAY	DEV FROM NORM	COOL DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
			MEAN TEMP	NUM OBS	FROM NORM	MAX TEMP										
AMBER	200	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	4.250	30	99.99	1.96	4
ARCADIA	288	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	4.580	30	99.99	1.95	26
TINKER AFB	325	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	5.214	30	99.99	2.03	26
BLANCHARD	830	5	47.4	30	999.0	71.	1	14.	13	529.0	9999.0	4.514	30	99.99	1.73	26
BRISTOW	1144	5	45.3	30	-4.4	75.	1	12.	13	590.0	126.0	3.603	30	1.27	1.20	3
CHANDLER	1684	5	45.9	30	-4.5	73.	1	12.	13	572.0	129.0	4.590	30	2.50	1.52	4
CHICKASHA	1750	5	47.5	30	-2.5	70.	22	15.	13	524.0	74.0	5.120	30	3.57	1.86	4
COX CITY	2196	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	4.170	30	99.99	1.63	3
CRESCENT	2242	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	1.950	30	99.99	1.62	4
DUSHING	2318	5	44.3	25	-4.6	70.	1	11.	13	516.5	33.5	3.771	26	1.76	1.60	26
EL REND	2818	5	44.3	30	-4.2	69.	22	12.	13	619.5	124.5	3.230	30	1.59	1.63	4
GUTHRIE	3821	5	46.1	29	-3.2	73.	29	13.	13	549.5	78.5	4.802	29	3.00	2.00	26
HENNESSEY	4055	5	44.0	30	-4.5	67.	29	14.	13	631.5	136.5	3.130	30	1.50	1.86	4
INGALLS	4489	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	3.352	30	99.99	1.25	4
KINGFISHER	4861	5	43.3	29	-5.6	68.	22	14.	13	628.5	145.5	3.640	30	2.11	1.41	4
KINGFISHER CREEK	4862	5	43.8	29	999.0	68.	21	14.	13	615.0	9999.0	3.640	30	99.99	1.41	4
UJC KINGFISHER	4864	5	43.1	29	999.0	68.	21	14.	13	635.0	9999.0	3.640	30	99.99	1.41	4
STILLWATER	8501	5	43.3	29	-5.6	68.	1	12.	13	629.5	146.5	4.211	30	2.43	1.91	26
KONAWA	4915	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	4.402	31	2.26	2.22	3
MARSHALL	5589	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	3.860	30	2.23	1.55	4
MEEKER	5779	5	45.2	30	-4.1	70.	1	12.	13	594.5	123.5	4.740	30	2.69	1.65	25
MULHALL	6110	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	3.761	30	99.99	1.61	27
NORMAN	6386	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	4.631	30	2.59	1.69	27
OILTON	6616	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	4.380	30	99.99	1.46	26
OKEMAH	6638	5	45.4	30	-5.3	75.	1	12.	13	587.5	158.5	3.391	30	.95	1.42	4
OKLAHOMA CITY	6661	5	45.6	30	-3.2	69.	22	14.	13	581.5	95.5	4.635	30	3.10	1.92	26
PERKINS	7003	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	4.560	30	2.49	2.02	26
PIEDMONT	7068	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	4.290	30	99.99	1.70	4
PRAGUE	7264	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	3.562	30	1.35	1.45	4
PURCELL	7327	5	46.3	30	-3.3	71.	17	14.	13	561.0	94.0	4.572	30	2.51	1.70	4
SEMINOLE	8042	5	47.9	30	-3.8	77.	1	14.	13	514.0	110.0	4.370	30	1.85	1.81	4
SHAWNEE	8110	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	4.651	30	2.31	1.72	26
STELLA	8479	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	4.590	30	99.99	1.56	26
STROUD	8563	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	3.931	30	99.99	1.24	26
TECUMSEH	8751	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	4.392	30	99.99	1.55	4
TROUSDALE	8960	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	4.120	30	99.99	1.80	4
UNION CITY	9086	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	4.050	30	1.99	1.71	4
WELTY	9479	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	3.801	30	99.99	1.35	4
WENOKA	9575	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	3.881	30	1.65	1.76	4

Note: 9999.0, 999.0, 99.99 indicate missing records.

Trace = .001

NOVEMBER 1986 SUMMARY FOR EAST CENTRAL DIVISION (CD6)

NAME	ID	DIV	DEV						HEAT	DEV	COOL	DEV	TOT	NUM	FROM	MAX	24-HR	DAY
			MEAN	NUM	FROM	MAX	MIN	DAY	DEG	FROM	DEG	FROM						
MCALESTER	5664	6	48.0	30	-2.8	77.	1	16.	13	509.5	76.5	.5	-6.5	2.661	30	-.41	1.00	26
ASHLAND	364	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.812	30	99.99	1.30	4
BEGGS	631	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.700	30	99.99	1.54	4
BOYNTON	1027	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.411	30	99.99	1.05	4
CALVIN	1391	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.133	30	2.44	1.75	4
CHECOTAH	1711	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.411	30	.57	1.13	5
DEWAR	2485	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.580	30	.89	1.16	4
DUSTIN	2650	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.760	30	99.99	1.55	4
EUFULA	2993	6	48.4	30	999.0	75.	1	16.	13	498.5	9999.0	0.0	9999.0	3.960	30	1.00	1.55	4
HANNA	3884	6	46.5	30	999.0	75.	1	14.	13	556.0	9999.0	0.0	9999.0	4.071	30	1.13	1.40	4
HARTSHORNE	3946	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.343	30	99.99	1.00	4
HASKELL	3956	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.681	30	.79	1.10	4
HOLDENVILLE	4235	6	46.8	30	-4.6	75.	1	14.	13	546.5	133.5	0.0	0.0	4.471	30	2.07	1.94	4
LAKE EUFAULA	4975	6	46.4	29	999.0	75.	1	15.	14	539.0	9999.0	0.0	9999.0	3.880	30	99.99	1.33	4
LYONS	5437	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.450	30	.50	2.10	6
MCCURTAIN	5693	6	48.8	30	999.0	76.	1	15.	13	487.0	9999.0	0.0	9999.0	3.263	30	-.32	.95	5
MUSKOGEE	6130	6	46.1	30	-4.0	76.	1	13.	13	566.0	119.0	0.0	0.0	3.040	30	.06	1.29	3
OKMULGEE WATER	6670	6	42.9	29	-7.7	68.	2	13.	13	641.5	209.5	0.0	0.0	3.530	30	.90	2.07	3
OKTAHA	6678	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.080	30	99.99	1.22	4
QUINTON	7372	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.944	30	.70	1.12	3
SALLISAW	7862	6	47.6	30	-3.1	76.	1	14.	13	522.0	88.0	0.0	-5.0	4.202	30	.79	1.40	5
SCIFIO	7979	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.040	30	99.99	1.20	4
SCRAPER	7993	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.760	30	99.99	1.06	4
SHORT	8170	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.493	30	99.99	1.70	5
TAHLEQUAH	8677	6	46.6	30	.3	78.	1	10.	13	552.5	76.5	0.0	-5.0	3.271	30	.07	1.07	5
WEBBERS FALLS	9445	6	46.1	29	-3.2	77.	1	15.	14	549.5	78.5	0.0	0.0	3.720	30	.73	1.26	5
WESTVILLE	9523	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.281	30	99.99	1.23	5
WETUMKA	9571	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.646	30	.88	1.35	4

Note: 9999.0, 999.0, 99.99 indicate missing records.

Trace = .001

NOVEMBER 1986 SUMMARY FOR SOUTHWEST DIVISION (CD7)

NAME	ID	DIV	DEV					HEAT		DEV		COOL		DEV		TOT	NUM	FROM	MAX	DAY
			MEAN	NUM	FROM	MAX	MIN	DEG	FROM	DEG	FROM	DEG	FROM	DEG	FROM					
ALTUS IRR STA	179	7	48.8	30	-2.4	78.	8	17.	13	487.5	73.5	2.0	2.0	2.670	30	1.65	1.36	4		
ALTUS DAM	184	7	46.9	29	999.0	73.	7	18.	14	523.5	9999.0	0.0	9999.0	2.261	30	1.24	1.45	4		
ANADARKO	224	7	44.8	27	-4.9	69.	8	15.	13	544.5	85.5	0.0	0.0	3.790	30	2.21	1.84	4		
ALTUS AFB	447	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.085	30	99.99	1.02	4		
CARNEGIE	1504	7	46.2	30	-3.3	73.	7	10.	12	563.0	98.0	0.0	0.0	2.760	30	1.44	1.24	4		
CHATTANOOGA	1706	7	48.5	30	-2.4	72.	7	18.	13	495.0	72.0	0.0	0.0	3.790	30	2.42	2.13	26		
DUNCAN	2668	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.331	30	99.99	1.64	4		
FREDERICK	3353	7	47.2	29	-5.0	74.	7	17.	13	517.5	128.5	0.0	-5.0	4.231	30	2.82	1.84	4		
GRANDFIELD	3709	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.410	30	1.86	1.70	25		
HOBART	4204	7	46.1	28	-2.4	73.	7	15.	13	528.0	33.0	0.0	0.0	2.091	28	1.01	1.27	4		
HOLLIS	4249	7	47.6	29	-2.8	77.	16	16.	13	505.5	67.5	0.0	0.0	1.271	29	.39	.99	4		
LAWTON	5063	7	46.8	27	-4.1	73.	6	17.	12	491.5	63.5	0.0	0.0	3.781	23	2.03	1.57	3		
FT SILL	5068	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.362	30	3.61	1.93	5		
LOCO	5247	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.890	30	99.99	2.10	4		
LOOKEBA	5329	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.430	30	99.99	1.53	4		
MANGUM RS STA	5509	7	47.4	30	-2.8	73.	7	17.	13	528.0	84.0	0.0	0.0	1.770	30	.86	1.26	4		
ROOSEVELT	7727	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.260	9	1.02	1.45	4		
SEDAN	8016	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.140	30	99.99	1.90	4		
SYNDER	8299	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.423	30	2.19	1.52	4		
VINSON	9212	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.820	30	.80	1.48	4		
WALTERS	9278	7	49.2	30	-2.5	75.	7	18.	14	473.5	58.5	0.0	-6.0	4.130	30	2.30	2.20	4		
WILLOW	9668	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.050	30	99.99	1.42	4		

NOVEMBER 1986 SUMMARY FOR SOUTH CENTRAL DIVISION (CD8)

NAME	ID	DIV	DEV					HEAT		DEV		COOL		DEV		TOT	NUM	FROM	MAX	DAY
			MEAN	NUM	FROM	MAX	MIN	DEG	FROM	DEG	FROM	DEG	FROM	DEG	FROM					
ADA	17	8	47.3	30	-4.5	77.	1	15.	14	530.0	126.0	0.0	-8.0	4.972	30	2.42	2.71	4		
ALLEN	147	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.530	30	99.99	1.80	4		
ARDMORE	292	8	50.0	30	-4.3	73.	17	17.	13	450.0	120.0	0.0	-9.0	4.260	30	2.02	2.16	4		
ATOKA DAM	394	8	48.4	29	999.0	77.	1	19.	14	481.5	9999.0	1.5	9999.0	4.700	30	99.99	2.00	4		
BOKCHITO	917	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	6.080	30	99.99	3.00	25		
CANEY	1437	8	49.6	21	999.0	70.	16	18.	13	324.0	9999.0	0.0	9999.0	5.440	24	99.99	2.40	4		
CHICKASAW NRA	1745	8	46.8	29	999.0	74.	2	16.	14	527.5	9999.0	0.0	9999.0	5.130	30	99.99	2.00	4		
COMANCHE	2054	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.332	30	99.99	1.90	4		
DAISY	2354	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.014	30	1.65	1.44	26		
DURANT USDA	2678	8	50.3	29	999.0	80.	1	17.	13	436.5	9999.0	10.5	9999.0	4.850	30	2.05	1.67	4		
ELMORE CITY	2872	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.604	30	99.99	2.11	4		
FARRIS	3083	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.630	30	99.99	1.78	25		
GRADY	3688	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.000	30	99.99	2.78	4		
HEALDTON	4001	8	48.7	30	999.0	74.	17	17.	13	489.0	9999.0	0.0	9999.0	4.921	30	2.88	2.69	4		
HENNEPIN	4052	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.550	30	99.99	2.35	3		
KINGSTON	4865	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.310	30	1.78	1.80	4		
LEHIGH	5108	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.252	30	99.99	1.80	4		
LINDSAY	5220	8	47.2	30	999.0	71.	22	16.	13	534.0	9999.0	0.0	9999.0	1.890	30	99.99	1.48	24		
MADILL	5468	8	49.8	30	-3.2	76.	1	18.	14	456.5	90.5	0.0	-6.0	4.470	30	2.01	1.90	4		
MARIETTA	5563	8	50.2	30	-2.7	75.	17	18.	13	442.5	71.5	0.0	-8.0	3.330	30	.87	1.63	4		
MARLOW	5581	8	48.0	30	999.0	71.	22	15.	13	511.0	9999.0	0.0	9999.0	3.611	30	1.66	1.69	4		
OSWALT	6787	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.200	30	99.99	1.20	25		
PAULS VALLEY	6926	8	44.8	18	-6.6	73.	17	15.	13	363.5	-49.5	0.0	0.0	4.800	28	2.63	2.60	3		
PONTOTOC	7214	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.270	30	1.38	2.25	4		
TISHOMINGO	8884	8	47.1	18	999.0	75.	1	17.	13	322.5	9999.0	0.0	9999.0	5.190	30	2.70	2.40	4		
TUSSY	9032	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.890	30	99.99	2.21	4		
WAURIKA	9395	8	50.1	30	-2.5	75.	8	18.	13	448.0	69.0	0.0	-7.0	3.480	30	1.55	1.60	4		

Note: 9999.0, 999.0, 99.99 indicate missing records.

Trace = .001

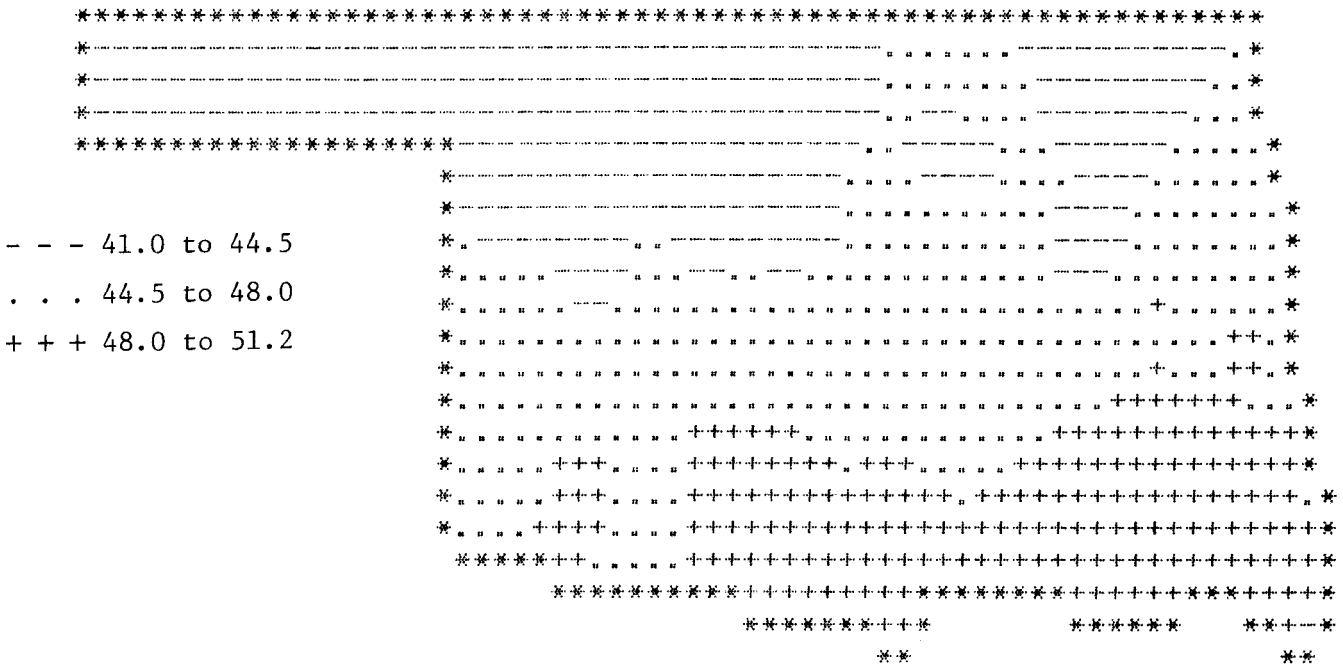
SUMMARY FOR 1986 SUMMARY FOR SOUTHEAST DIVISION (CD9)

NAME	ID	DIV	DEV				HEAT		DEV		COOL		DEV		DEV			
			MEAN	NUM	FROM	MAX	MIN	DEG	FROM	DEG	FROM	TOT	NUM	FROM	MAX	24-HR	DAY	
	TEMP	OBS	NORM	TEMP	DAY	TEMP	DAY	DEG	NORM	DAY	NORM	PPT	OBS	NORM	24-HR	DAY		
ANTLERS	256	9	51.1	30	-7	77.	17	29.	13	417.5	17.5	.5	.5	5.830	30	2.65	2.53	4
BATTIEST	567	9	49.0	29	999.0	74.	1	18.	13	463.0	9999.0	0.0	9999.0	4.370	30	99.99	1.80	4
BENGAL	670	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.610	30	99.99	1.39	5
BOSWELL	980	9	50.8	30	999.0	78.	1	17.	13	428.5	9999.0	1.5	9999.0	4.121	30	1.10	1.25	4
BROKEN BOW	1162	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.350	30	1.33	2.46	10
BROKEN BOW DAM	1168	9	51.1	29	999.0	76.	2	22.	14	404.5	9999.0	0.0	9999.0	5.110	30	99.99	1.72	11
BUFFALO MT TOWER	1251	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.260	30	99.99	2.03	4
CARNASAW TW	1499	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.510	30	1.23	1.93	11
CARTER MT	1544	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.040	30	1.22	1.61	5
FANSHAW	3065	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.550	30	-4.0	1.22	5
HEAVENER	4008	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.960	30	.27	1.70	5
HEE MT TW	4017	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.500	30	99.99	1.76	5
HUGO	4384	9	51.2	30	-2.2	78.	18	20.	13	415.5	58.5	.5	-8.5	5.371	30	2.11	1.93	25
TUSKAHOMA	9023	9	49.4	30	999.0	77.	1	18.	13	468.5	9999.0	0.0	9999.0	2.991	30	99.99	1.49	5
IDABEL	4451	9	51.0	29	-1.6	77.	18	22.	13	405.0	25.0	0.0	-8.0	5.202	30	1.37	1.97	11
JADIE TOWER	4560	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	6.210	30	99.99	2.33	11
POTEAU	7254	9	47.1	29	999.0	73.	2	17.	13	520.0	9999.0	0.0	9999.0	3.441	30	99.99	1.48	4
SPIRO	8416	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	3.000	30	-8.5	1.24	5
SMITHVILLE	8285	9	49.1	30	999.0	75.	1	17.	13	477.5	9999.0	0.0	9999.0	4.520	30	99.99	1.72	5
VALLIANT	9118	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	5.850	30	2.25	1.98	5
WILBURTON	9634	9	47.3	30	-3.6	75.	2	12.	13	531.0	103.0	0.0	0.0	2.763	30	-8.2	1.75	4
WISTER DAM	9719	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.590	12	99.99	1.12	4
ZOE	9985	9	46.5	12	999.0	76.	17	17.	14	222.0	9999.0	0.0	9999.0	2.810	17	-9.9	1.35	6

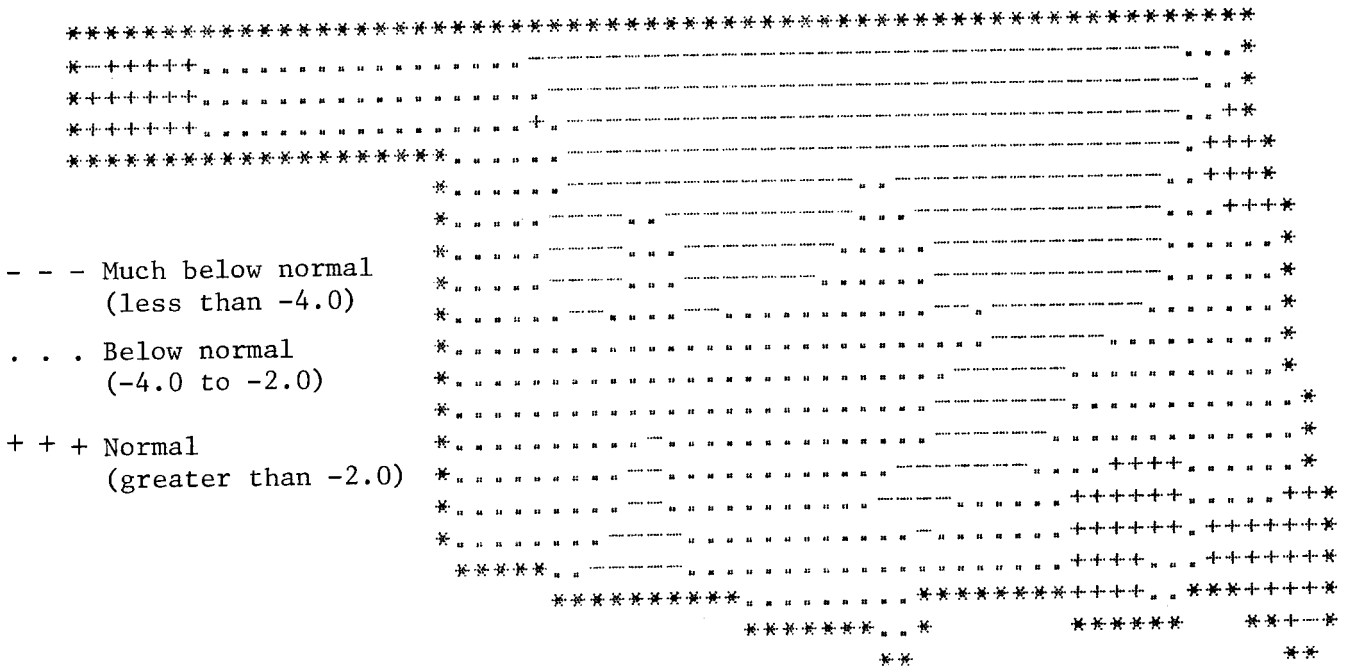
NOVEMBER 1986 CLIMATE DIVISION SUMMARY

CLIMATE	DIV	MEAN	NUM	DEV				HEAT		DEV		COOL		DEV		
				FROM	MAX	MIN	DEGREE	FROM	DEGREE	FROM	TOT	NUM	FROM	MAX	24-HR	DAY
	TEMP	STA	NORM	TEMP	DAY	TEMP	DAY	DAYS	NORM	DAYS	NORM	PPT	STA	NORM	24-HR	DAY
1	42.8	10	-2.0	78.0	19	9.0	14	653.5	49.0	0.0	0.0	2.35	13	1.51	2.69	4
2	43.0	15	-4.6	73.0	29	8.0	13	645.3	123.9	0.0	0.0	2.93	24	1.40	2.45	4
3	44.4	14	-4.3	76.0	1	7.0	13	606.9	116.3	0.0	0.0	3.39	28	.82	2.30	26
4	43.8	10	-4.5	72.0	17	10.0	12	622.3	122.1	0.0	0.0	2.49	18	1.17	2.62	4
5	45.3	16	-4.2	77.0	1	11.0	13	585.1	119.1	.1	-7	4.01	39	2.02	2.22	3
6	46.7	11	-3.1	78.0	1	10.0	13	542.5	98.8	.0	-2.4	3.63	28	.67	2.10	6
7	47.2	11	-3.3	78.0	8	10.0	12	514.3	77.3	.2	-9	2.99	20	1.68	2.20	4
8	48.0	11	-3.9	80.0	1	15.0	13	482.4	105.2	1.1	-5.2	4.32	26	1.87	3.00	25
9	49.7	10	-2.5	78.0	18	12.0	13	453.1	61.9	.3	-4.0	4.36	21	.68	2.53	4

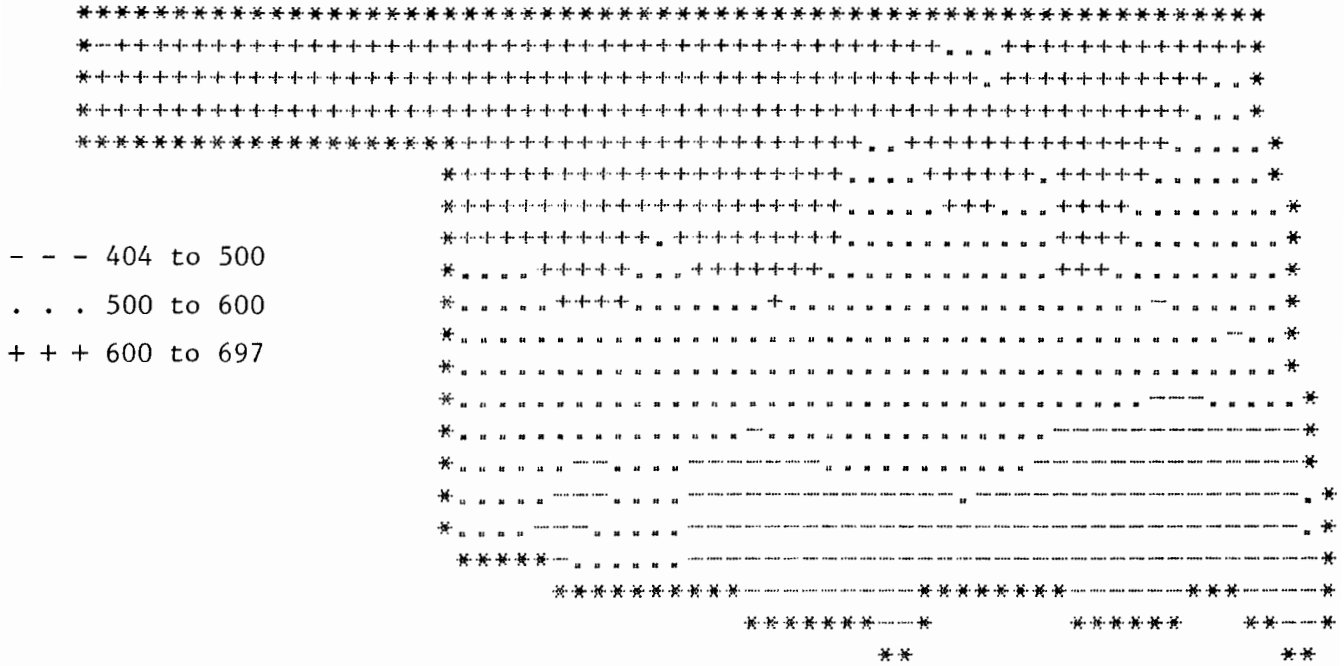
Note: 9999.0, 999.0, 99.99 indicate missing records.  
Trace = .001



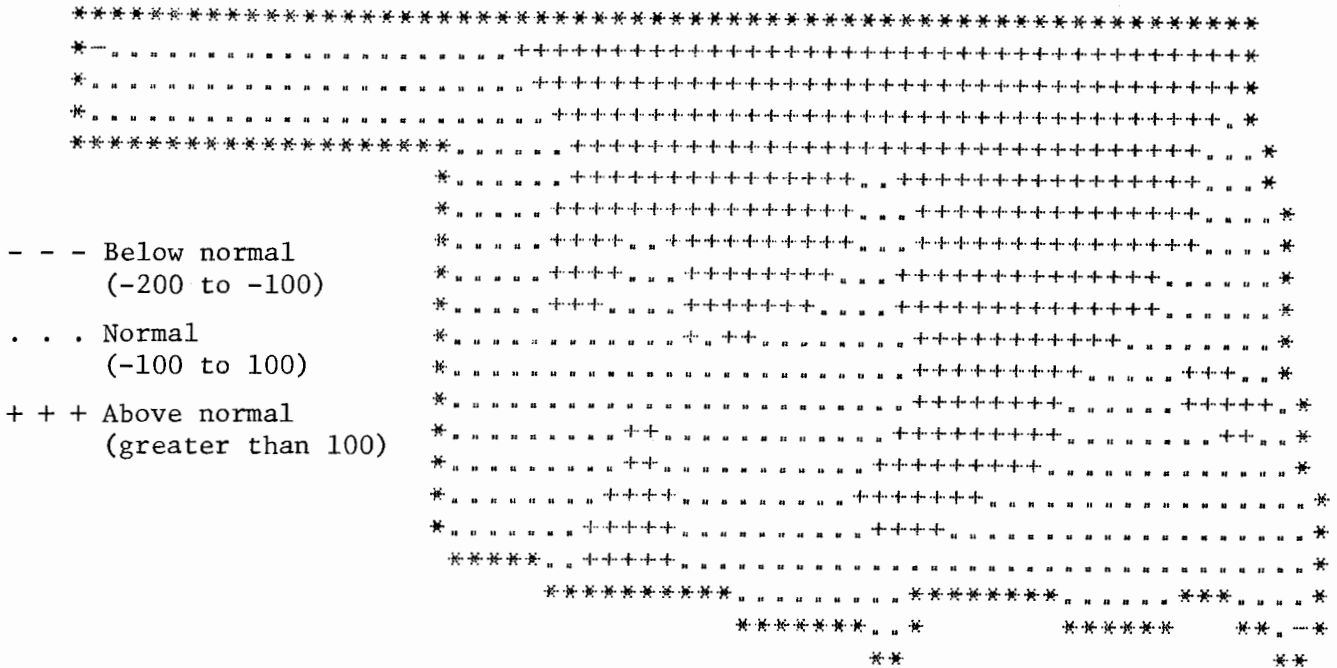
### NOVEMBER 1986 AVERAGE MONTHLY TEMPERATURE (DEGREES F)



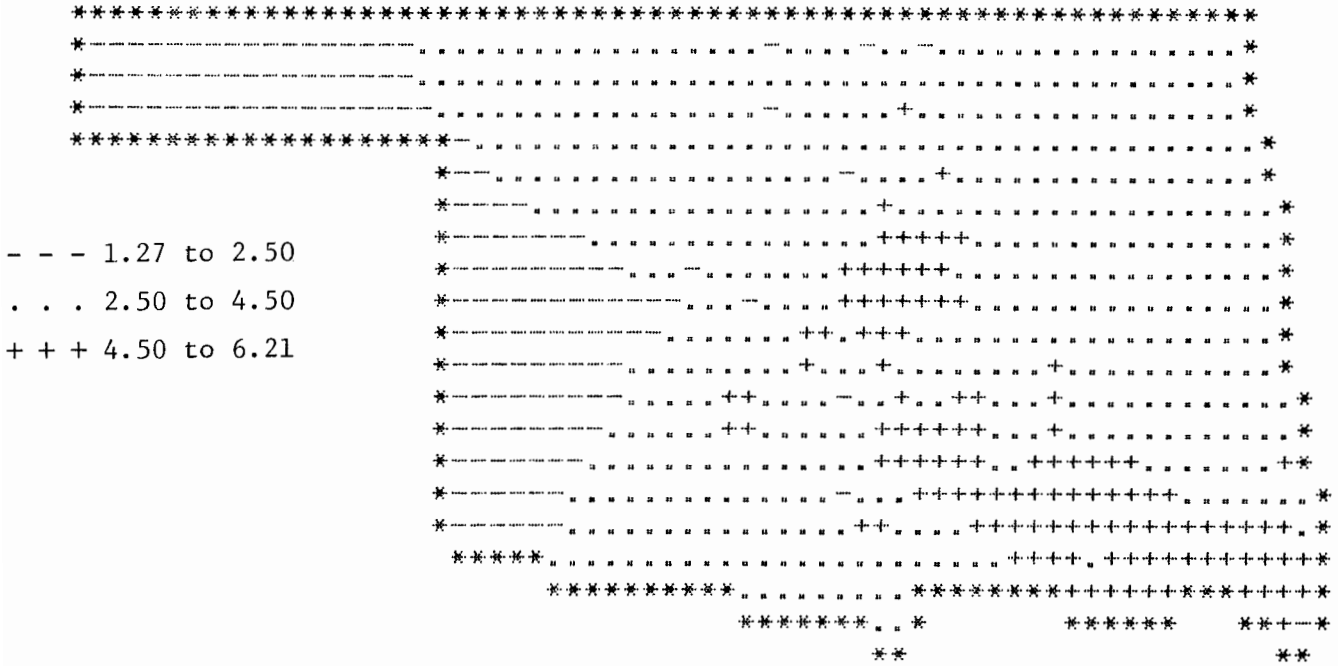
### NOVEMBER 1986 DEVIATION FROM NORMAL TEMPERATURE



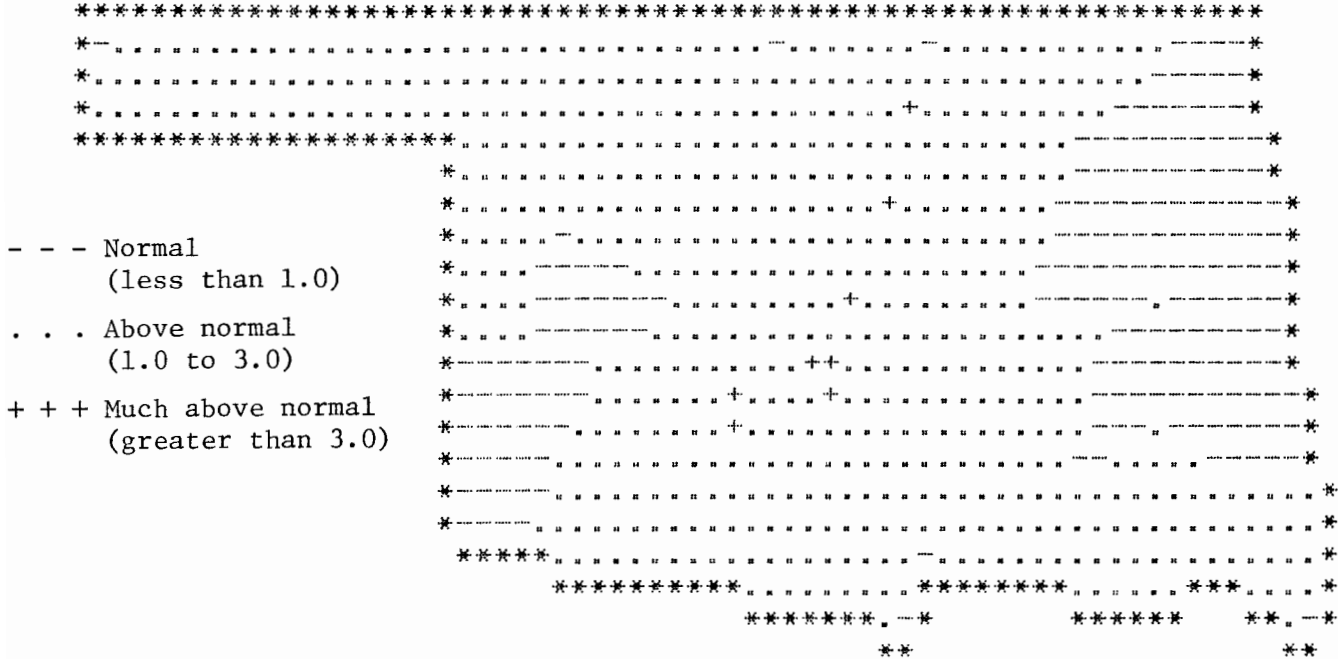
### NOVEMBER 1986 TOTAL HEATING DEGREE DAYS



### NOVEMBER 1986 DEVIATION FROM NORMAL HEATING DEGREE DAYS



### NOVEMBER 1986 TOTAL PRECIPITATION (INCHES)



### NOVEMBER 1986 DEVIATION FROM NORMAL PRECIPITATION

# JANUARY 1987 CLIMATE CALENDAR

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

1		2		3		4		5		6		7	
Normal	46.6	Normal	46.0	Normal	45.4	Normal	44.0	Normal	45.0	Normal	44.9	Normal	44.7
max	—	max	26.8	max	23.9	max	25.0	max	25.0	max	23.2	max	24.4
min	—	min	.098	min	.076	min	.030	min	.055	min	.010	min	.008
pcpn	—	pcpn	28	pcpn	30	pcpn	30	pcpn	30	pcpn	31	pcpn	30
HDD	—	HDD	0	HDD	0	HDD	0	HDD	0	HDD	0	HDD	0
CDD	—	CDD	—	CDD	—	CDD	—	CDD	—	CDD	—	CDD	—
Highest Max	72-1943	Highest Max	70-1964	Highest Max	71-1939	Highest Max	72-1927	Highest Max	71-1927	Highest Max	71-1927	Highest Max	73-1965
Lowest Max	13-1979	Lowest Max	21-1928	Lowest Max	11-1947	Lowest Max	11-1959	Lowest Max	22-1940	Lowest Max	20-1979	Lowest Max	16-1937
Lowest Min	2-1928	Lowest Min	3-1979	Lowest Min	1-1959	Lowest Min	-7-1947	Lowest Min	-2-1959	Lowest Min	6-1968	Lowest Min	2-1968
Highest Min	51-1966	Highest Min	56-1950	Highest Min	50-1955	Highest Min	60-1955	Highest Min	43-1962	Highest Min	47-1965	Highest Min	54-1965
Greatest pcpn	1.01-1951	Greatest pcpn	1.01-1951	Greatest pcpn	.83-1973	Greatest pcpn	1.81-1932	Greatest pcpn	1.00-1962	Greatest pcpn	1.02-1934	Greatest pcpn	.93-1943
Normal	46.1	Normal	43.6	Normal	42.6	Normal	43.6	Normal	45.9	Normal	47.1	Normal	46.8
max	—	max	22.7	max	22.3	max	22.3	max	25.9	max	25.9	max	25.6
min	—	min	.014	min	.016	min	.006	min	.038	min	.014	min	.022
pcpn	—	pcpn	32	pcpn	32	pcpn	32	pcpn	29	pcpn	28	pcpn	29
HDD	—	HDD	0	HDD	0	HDD	0	HDD	0	HDD	0	HDD	0
CDD	—	CDD	—	CDD	—	CDD	—	CDD	—	CDD	—	CDD	—
Highest Max	70-1954	Highest Max	68-1935	Highest Max	72-1928	Highest Max	73-1928	Highest Max	73-1935	Highest Max	73-1935	Highest Max	75-1928
Lowest Max	11-1937	Lowest Max	9-1977	Lowest Max	13-1962	Lowest Max	16-1963	Lowest Max	11-1963	Lowest Max	11-1963	Lowest Max	17-1979
Lowest Min	0-1979	Lowest Min	-2-1977	Lowest Min	-3-1977	Lowest Min	-1-1962	Lowest Min	-3-1963	Lowest Min	-1-1963	Lowest Min	1-1979
Highest Min	49-1939	Highest Min	45-1966	Highest Min	47-1928	Highest Min	45-1928	Highest Min	51-1960	Highest Min	49-1952	Highest Min	50-1928
Greatest pcpn	1.45-1935	Greatest pcpn	.43-1930	Greatest pcpn	.59-1949	Greatest pcpn	.39-1949	Greatest pcpn	.78-1927	Greatest pcpn	.15-1951	Greatest pcpn	.37-1946
Normal	48.2	Normal	46.6	Normal	48.9	Normal	47.3	Normal	43.8	Normal	47.3	Normal	46.8
max	—	max	24.7	max	26.8	max	25.3	max	26.1	max	25.1	max	27.0
min	—	min	.032	min	.030	min	.085	min	.052	min	.013	min	.094
pcpn	—	pcpn	29	pcpn	27	pcpn	28	pcpn	30	pcpn	28	pcpn	28
HDD	—	HDD	0	HDD	0	HDD	0	HDD	0	HDD	0	HDD	0
CDD	—	CDD	—	CDD	—	CDD	—	CDD	—	CDD	—	CDD	—
Highest Max	73-1952	Highest Max	75-1935	Highest Max	68-1951	Highest Max	72-1951	Highest Max	73-1951	Highest Max	73-1951	Highest Max	71-1933
Lowest Max	14-1930	Lowest Max	11-1930	Lowest Max	8-1930	Lowest Max	12-1943	Lowest Max	12-1962	Lowest Max	12-1962	Lowest Max	13-1954
Lowest Min	1-1972	Lowest Min	0-1930	Lowest Min	-9-1930	Lowest Min	-9-1930	Lowest Min	-3-1984	Lowest Min	-3-1984	Lowest Min	-2-1935
Highest Min	53-1969	Highest Min	52-1938	Highest Min	51-1973	Highest Min	47-1935	Highest Min	48-1954	Highest Min	46-1973	Highest Min	53-1933
Greatest pcpn	1.07-1932	Greatest pcpn	.45-1978	Greatest pcpn	1.61-1926	Greatest pcpn	1.07-1968	Greatest pcpn	1.28-1980	Greatest pcpn	.28-1980	Greatest pcpn	1.40-1932
Normal	47.3	Normal	45.3	Normal	50.6	Normal	51.6	Normal	47.9	Normal	46.8	Normal	47.4
max	—	max	24.8	max	26.7	max	28.5	max	28.3	max	25.1	max	25.6
min	—	min	.008	min	.004	min	.050	min	.020	min	.007	min	.006
pcpn	—	pcpn	30	pcpn	26	pcpn	25	pcpn	27	pcpn	29	pcpn	28
HDD	—	HDD	0	HDD	0	HDD	0	HDD	0	HDD	0	HDD	0
CDD	—	CDD	—	CDD	—	CDD	—	CDD	—	CDD	—	CDD	—
Highest Max	79-1967	Highest Max	73-1942	Highest Max	80-1950	Highest Max	76-1952	Highest Max	72-1953	Highest Max	72-1953	Highest Max	69-1986
Lowest Max	16-1962	Lowest Max	13-1963	Lowest Max	13-1940	Lowest Max	16-1949	Lowest Max	20-1957	Lowest Max	20-1957	Lowest Max	17-1961
Lowest Min	-8-1930	Lowest Min	-1-1963	Lowest Min	-1-1963	Lowest Min	5-1940	Lowest Min	8-1963	Lowest Min	8-1963	Lowest Min	3-1963
Highest Min	49-1967	Highest Min	51-1967	Highest Min	44-1967	Highest Min	58-1944	Highest Min	53-1944	Highest Min	53-1944	Highest Min	43-1968
Greatest pcpn	.34-1927	Greatest pcpn	.89-1949	Greatest pcpn	.37-1949	Greatest pcpn	.61-1967	Greatest pcpn	.64-1983	Greatest pcpn	.62-1985	Greatest pcpn	.60-1978
Normal	47.3	Normal	46.3	Normal	48.6	Normal	48.6	Normal	47.9	Normal	46.8	Normal	47.4
max	—	max	25.4	max	27.6	max	27.6	max	28.3	max	25.1	max	25.6
min	—	min	.028	min	.020	min	.020	min	.020	min	.007	min	.006
pcpn	—	pcpn	29	pcpn	27	pcpn	27	pcpn	27	pcpn	29	pcpn	28
HDD	—	HDD	0	HDD	0	HDD	0	HDD	0	HDD	0	HDD	0
CDD	—	CDD	—	CDD	—	CDD	—	CDD	—	CDD	—	CDD	—
Highest Max	72-1971	Highest Max	73-1931	Highest Max	72-1986	Highest Max	76-1952	Highest Max	72-1953	Highest Max	72-1953	Highest Max	69-1986
Lowest Max	13-1966	Lowest Max	17-1949	Lowest Max	11-1985	Lowest Max	16-1949	Lowest Max	20-1957	Lowest Max	20-1957	Lowest Max	17-1961
Lowest Min	3-1951	Lowest Min	2-1966	Lowest Min	-1-1979	Lowest Min	5-1940	Lowest Min	8-1963	Lowest Min	8-1963	Lowest Min	3-1963
Highest Min	47-1944	Highest Min	49-1941	Highest Min	47-1986	Highest Min	58-1944	Highest Min	53-1944	Highest Min	53-1944	Highest Min	43-1968
Greatest pcpn	.89-1938	Greatest pcpn	1.02-1975	Greatest pcpn	.47-1941	Greatest pcpn	.61-1967	Greatest pcpn	.64-1983	Greatest pcpn	.62-1985	Greatest pcpn	.60-1978