

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 APRIL 1987

April 1987 was one of the driest Aprils ever recorded in Oklahoma. Several stations reported zero precipitation for the entire month while most others reported less than an inch. Precipitation ranged from one inch below normal in climate division 1 to over four inches below normal in the southeast. Oklahoma also experienced its first April without a tornado since 1948.

The month began unseasonably cool as a dry cold front moved through the State on the 1st and 2nd. High pressure and cool air settled over Oklahoma for several days following the front. Temperatures ranged from 6 to 10 degrees below normal for the first week as most stations reported their lowest temperatures of the month. On the 3rd and 4th all sections of the State experienced sub-freezing temperatures with Buffalo and Guymon recording 20 degrees, the State's lowest temperature of the month, on the 3rd.

Another cold front lingered over the State on the 12th and 13th. The intense low pressure system accompanying it managed to produce some rain, damaging winds, and spotty hail. Rainfall reports on the 14th included Gage 1.05 inches, Freedom 1.02 inches, Okeene .60 inches, Stilwell 1.02 inches, Durant .17 inches and Broken Bow .25 inches. Strong winds in Perry lifted a man's mobile home and crashed it to the ground, demolishing the home and killing its resident. Enid and Atoka reported 3/4 inch hail, and Kay County recorded marble size hail.

Southerly winds, clear skies, and a warm air mass combined to deliver monthly high temperatures to several stations on the 18th and

19th. Some of the reports on the 18th included Frederick 96 degrees; Guymon, El Reno, and Antlers 95 degrees; and Waynoka 94 degrees.

The warm weather ended abruptly when a fast moving cold front swept through the State on the 20th. The cool air lowered high temperatures by over 20 degrees Statewide between the 20th and 21st. The front did produce some much needed rain on the 21st, when at least one station per climate division recorded rain. Some stations in central and south central parts of the State reported more than one inch.

After the front, the precipitation ended and temperatures gradually increased to above normal. Dry weather persisted for the remainder of the month.

The lack of rain in April further threatened the already severely reduced Oklahoma wheat crop. The abundant soil moisture present into March diminished rapidly throughout April, leaving small grains despartely in need of moisture. The Oklahoma Department of Agriculture noted that the developing moisture stress had already caused some wheat to turn a bluish cast. The stress will also limit the filling of the heads. Thus, the lighter kernels will result in a lower test weight, according to Dr. Tucker, OSU. He added that row crops are also in jeopardy due to the dry conditions. The newly planted cotton, peanut, corn, and sorghum seeds will not germinate if the abnormally dry conditions continue.

TABLE OF 1986/1987 APRIL COMPARISONS

Station	April Temperatures (F)		April Precipitation (in.)	
	1986	1987	1986	1987
Goodwell	57.6	*	1.371	*
Lahoma	58.7	*	1.950	*
Mutual	59.5	56.7	.660	.670
Tulsa	62.7	63.2	5.022	.730
Elk City	62.4	58.5	1.875	.042
Oklahoma City	63.0	62.0	4.312	.420
McAlester	63.6	62.1	8.112	.210
Altus Irr. Sta.	65.4	62.1	2.151	0.000
Durant	*	63.6	*	.290
Ada	62.3	62.3	2.721	.351
Tuskahoma	64.4	62.0	7.302	.910

* indicates missing data

EXTREMES

Variable	Station	Division	Observation	Date
Minimum temperature (F)	Smithville	9	18	4
Maximum temperature (F)	Perry	2	100	18
	Mannford	3	100	18
	U. Spavinaw	3	100	17
	Short	6	3.33"	14
Maximum 24-hour precipitation				

An Unusually Calm April
by Thomas Dunn

With relatively few occurrences of severe storms and precipitation, Oklahoma's weather was uncharacteristically calm and quiet during the month of April. Whereas tornadoes are usually expected during this part of the spring season, the National Weather Service reported that they were non-existent in Oklahoma during the entire month for the first time in nearly 40 years.

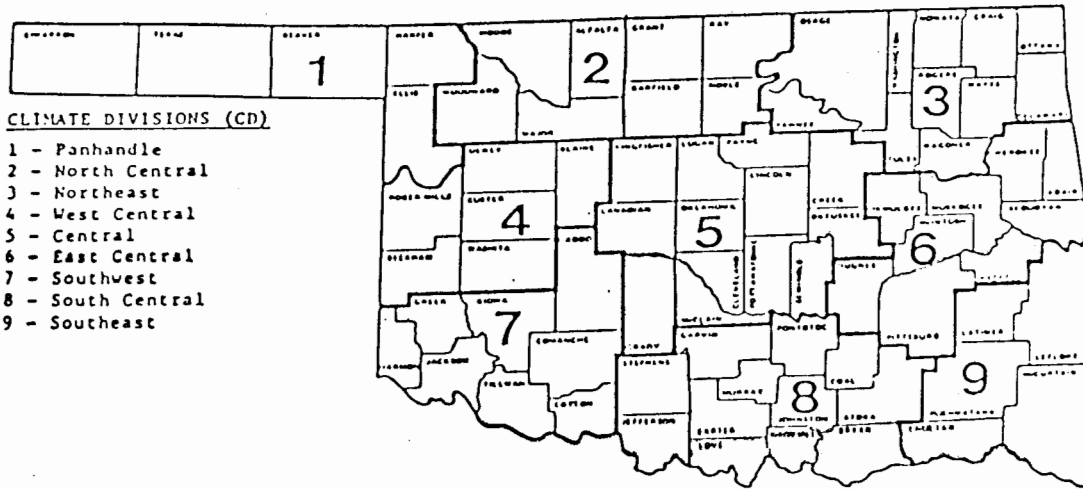
An analysis of surface and upper-level weather patterns for the month suggests that the abnormally dry and uneventful weather resulted from a combination of meteorological factors. Among the most important were a general lack of low-level moisture, the persistence of northerly flow at high levels in the atmosphere, and a small number of strong and active cold fronts at the surface.

Low-level moisture is a primary ingredient in the formation of springtime showers and thunderstorms in Oklahoma. This moisture has its origins over the Gulf of Mexico where it must rely on strong southerly winds for transport northward across Texas and Louisiana into Oklahoma. As these southerly winds were absent during a good part of the month, low-level moisture remained far to the south of the State unavailable to fuel potential thunderstorm activity.

The lack of southerly winds at the surface was governed, in part, by the nature of the wind pattern in the upper levels of the atmosphere over the southern plains states. Often times the direction and strength of this upper-level air flow can act to influence significantly the type and severity of weather that we experience at the surface. During April, the upper-level wind flow was from a westerly to northwesterly direction the majority of the time resulting in a generally stable weather pattern and no significant severe weather outbreaks Statewide.

April cold fronts are often accompanied by strong thunderstorms and heavy precipitation as they advance southwestward across Oklahoma. This year, while a total of five fronts overspread the State during April, only one cold front of sufficient strength to cause severe weather was observed. Although hail, high winds, and heavy rains were reported with the passage of this storm system, it lacked the strong upper-level wind support required to initiate substantial severe weather activity.

While these meteorological factors can be analyzed as separate events, in actuality they do act in conjunction to produce the diverse springtime weather observed here in Oklahoma. As such, the influx of low-level moisture and the strength and occurrence of surface cold fronts and high pressure systems in April were "linked" to the prevailing wind pattern aloft. These upper-level winds were responsible for our unusual April weather.



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.

APRIL 1987 SUMMARY FOR NORTHWEST DIVISION (CD1)

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	DEG DAY	FROM NORM	DEG DAY	FROM NORM	DEG DAY	FROM NORM							
ARNETT	332	1	56.6	29	-0.8	93.	18	26.	3	272.0	24.0	28.0	8.0	1.350	30	-0.43	1.33	14	
BEAVER	593	1	54.5	29	-2.6	96.	18	22.	3	323.5	69.5	20.0	3.0	.590	30	-0.66	.48	14	
BOISE CITY	908	1	53.8	30	-0.6	90.	18	23.	3	340.5	14.5	4.0	-4.0	1.080	30	-0.27	.78	4	
BUFFALO	1243	1	59.3	30	-0.4	96.	18	20.	3	226.5	32.5	56.0	21.0	.550	30	-1.52	.25	13	
FARGO	3070	1	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.460	30	-0.37	1.38	14	
GAGE	3407	1	56.7	22	-0.8	94.	18	31.	8	207.5	-35.5	25.0	7.0	1.111	29	-0.74	1.05	14	
GATE	3489	1	58.8	29	999.0	96.	17	24.	2	231.0	9999.0	51.5	9999.0	.710	30	99.99	.68	13	
GUYMON	3835	1	55.0	29	999.0	95.	18	20.	3	311.5	9999.0	22.5	9999.0	.003	30	99.99	.00	13	
HOOKER	4298	1	54.6	30	-1.7	94.	19	22.	4	337.0	63.0	24.5	11.5	.540	30	-0.65	.42	14	
KENTON	4766	1	52.9	29	-1.5	90.	18	21.	3	357.5	29.5	7.0	-3.0	.900	30	-0.39	.59	13	
LAVERNE	5045	1	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.151	30	-0.38	1.07	14	
REGNIER	7534	1	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.630	30	-0.48	.43	13	

APRIL 1987 SUMMARY FOR NORTH CENTRAL DIVISION (CD2)

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	DEG DAY	FROM NORM	DEG DAY	FROM NORM	DEG DAY	FROM NORM							
ALVA	194	2	60.0	30	1.1	95.	18	30.	5	213.0	-1.0	63.5	32.5	.580	30	-1.05	.58	14	
BILLINGS	755	2	58.7	29	999.0	95.	19	24.	3	225.5	9999.0	41.5	9999.0	.981	30	-1.94	.63	13	
BLACKWELL	818	2	59.1	30	999.0	93.	17	25.	3	238.5	9999.0	62.5	9999.0	.601	30	99.99	.39	13	
BRAMAN	1075	2	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.500	30	99.99	.24	14	
CEDARDALE	1620	2	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.792	30	99.99	.69	14	
CHEROKEE	1724	2	60.4	30	.6	94.	19	26.	4	211.5	15.5	72.5	32.5	1.200	30	-1.35	1.00	14	
ENID	2912	2	61.7	30	1.3	94.	19	33.	4	181.0	3.0	82.5	42.5	.420	30	-2.36	.28	13	
FT SUPPLY DAM	3304	2	56.4	29	-2.6	94.	18	24.	3	283.0	67.0	33.5	-2.5	.800	30	-0.71	.79	14	
FREEDOM	3358	2	59.0	30	999.0	95.	19	21.	3	238.0	9999.0	57.0	9999.0	1.022	30	99.99	1.02	14	
GREAT SALT PLAINS	D3740	2	59.4	29	999.0	92.	19	26.	3	214.5	9999.0	53.5	9999.0	.870	30	-1.78	.80	14	
HARDY	3969	2	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.141	30	99.99	.80	12	
HELENA	4019	2	57.6	29	999.0	91.	19	26.	3	242.5	9999.0	28.0	9999.0	1.092	30	-1.48	1.09	14	
JEFFERSON	4573	2	60.2	30	.7	94.	19	24.	3	212.5	14.5	70.0	34.0	1.301	30	-1.47	.96	13	
LAMONT	5013	2	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.080	30	99.99	.60	14	
MEDFORD	5768	2	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.870	30	99.99	.67	13	
MORRISON	6065	2	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.690	30	99.99	.43	21	
MUTUAL	6139	2	56.7	29	-1.5	92.	18	23.	3	265.5	35.5	23.5	-2.5	.670	30	-1.78	.50	14	
NEWKIRK	6278	2	60.2	30	.7	94.	19	25.	3	219.0	15.0	76.0	37.0	1.130	30	-1.02	.48	13	
ORIENTA	6751	2	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.720	30	99.99	.72	14	
FERRY	7012	2	62.3	30	.8	100.	18	27.	4	180.5	23.5	99.5	47.5	.391	30	-2.31	.16	14	
PONCA CITY	7201	2	59.9	30	1.3	96.	19	25.	3	219.0	-4.0	67.0	36.0	.421	30	-2.48	.31	13	
RENFROW	7556	2	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.870	30	-1.69	.46	14	
WAYNOKA	9404	2	59.0	30	-1.3	94.	18	22.	3	237.0	60.0	56.5	20.5	1.010	30	-1.17	1.01	14	
WOODWARD	9760	2	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.610	30	-0.39	1.56	14	

Note: 9999.0, 999.0, 99.99 indicate missing records.

Trace = .001

APRIL 1987 SUMMARY FOR NORTHEAST DIVISION (CD3)

NAME	ID	DIV	DEV			HEAT			COOL			DEV						
			MEAN	NUM	FROM	MAX	MIN	DEG	FROM	DEG	FROM	DEG	TOT	NUM	FROM	MAX		
			TEMP	OBS	NORM	TEMP	DAY	TEMP	DAY	DEG	NORM	DAY	NORM	PPT	OBS	NORM	24-HR	DAY
BARNSDALL	535	3	60.1	29	999.0	94.	19	24.	4	192.5	9999.0	51.5	9999.0	.841	30	-2.45	.58	21
BARTESVILLE	548	3	62.0	30	1.2	95.	19	24.	4	177.5	6.5	87.0	42.0	1.100	30	-2.22	.71	21
BIXBY	782	3	58.9	28	-1.7	97.	18	27.	4	213.5	45.5	44.0	8.0	.222	29	-3.69	.19	10
BURBANK	1256	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.461	30	99.99	.15	20
CHELSEA	1717	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.630	30	99.99	.23	10
CLAREMORE	1828	3	57.5	29	-2.4	91.	29	23.	2	252.5	65.5	34.5	.5	1.072	29	-2.69	.30	1
CLEVELAND	1902	3	62.7	28	999.0	97.	18	24.	3	146.0	9999.0	81.0	9999.0	.970	28	99.99	.54	21
FORAKER	3250	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.720	30	-2.41	.37	13
HOLLOW	4258	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.820	30	-2.90	.29	15
HOMINY	4289	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.060	30	-2.06	.76	21
HULAH DAM	4393	3	57.8	29	-1.4	94.	19	24.	6	244.0	41.0	36.5	7.5	1.950	30	-1.21	1.30	21
JAY TOWER	4567	3	60.7	30	999.0	92.	21	25.	3	206.0	9999.0	75.5	9999.0	1.510	30	99.99	.50	13
KANSAS	4672	3	60.5	30	999.0	90.	18	25.	3	203.0	9999.0	67.0	9999.0	1.350	30	99.99	.80	15
LENEPAH	5118	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.190	30	99.99	.71	21
MANNFORD	5522	3	62.9	30	999.0	100.	18	26.	3	155.0	9999.0	91.0	9999.0	.960	30	99.99	.56	21
MARAMEC	5540	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.910	30	-2.08	.48	21
MIAMI	5855	3	60.0	29	-.1	93.	20	24.	3	192.5	6.5	48.0	9.0	1.290	30	-2.43	.57	14
NGWATA	6485	3	60.8	30	.9	92.	18	27.	4	195.5	1.5	70.5	29.5	.930	30	-2.57	.50	21
ONETA	6713	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.650	30	99.99	.22	19
PANHUSKA	6937	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.170	30	99.99	.76	21
PAWNEE	6940	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.860	30	-2.11	.62	21
PRYOR	7309	3	57.9	29	-2.1	94.	18	24.	3	238.0	42.0	31.5	-14.5	1.031	30	-2.87	.34	10
QUAPAW	7358	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.260	30	-3.72	.26	16
RALSTON	7390	3	62.3	30	999.0	97.	18	24.	3	165.5	9999.0	83.5	9999.0	1.000	30	-1.89	.80	21
RAMONA	7394	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.800	30	99.99	.61	21
SKIATOOK	8258	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.061	30	-2.41	.48	10
SPAVINAW	8380	3	61.9	30	999.0	91.	19	27.	4	175.0	9999.0	81.0	9999.0	1.111	30	-2.97	.36	15
TULSA	8992	3	63.2	30	2.3	94.	19	31.	4	154.0	-14.0	101.5	56.5	.730	30	-3.42	.21	10
UPPER SPAVINAW	9101	3	62.2	29	999.0	100.	17	29.	4	153.5	9999.0	72.0	9999.0	1.521	30	99.99	.75	14
VINITA	9203	3	61.4	28	1.7	92.	18	22.	4	164.5	-24.5	64.0	34.0	.960	28	-3.11	.57	15
WAGONER	9247	3	62.6	30	1.0	92.	19	26.	3	158.0	8.0	86.0	38.0	1.180	30	-3.49	.60	26
WYMONA	9792	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.071	30	99.99	1.00	21
WANN	9298	3	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.940	30	99.99	.97	21

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

APRIL 1987 SUMMARY FOR WEST CENTRAL DIVISION (CD4)

NAME	ID	DIV	DEV							HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV		
			MEAN TEMP	NUM OBS	FROM NORM	MAX TEMP	MIN DAY TEMP		DAY							FROM NORM	MAX 24-HR	DAY
CANTON DAM	1445	4	57.8	29	-2.3	92.	18	23.	3	241.5	49.5	34.0	-11.0	.470	30	-1.82	.47	14
CLINTON	1909	4	61.1	29	.5	95.	17	26.	3	181.5	2.5	69.0	22.0	.100	30	-2.29	.10	14
COLONY	2039	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.150	30	99.99	.15	14
CORDELL	2125	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.020	30	-2.17	.02	14
ELK CITY	2849	4	58.8	28	999.0	91.	17	23.	3	203.0	9999.0	30.0	9999.0	.042	29	-2.17	.04	14
ERICK	2944	4	59.1	30	-1.3	94.	18	25.	3	221.5	43.5	45.0	5.0	.003	30	-2.20	.00	30
GEARY	3497	4	60.2	30	-.5	94.	18	24.	3	205.5	33.5	61.5	18.5	0.000	30	-2.46	0.00	30
HAMMON	3871	4	55.4	29	-4.9	92.	18	28.	6	292.0	109.0	13.0	-29.0	.171	30	-2.05	.12	14
LEEDEY	5090	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.630	30	-1.87	.63	14
MORAVIA	6035	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.003	30	-2.09	.00	21
OKEENE	6629	4	60.9	30	-.1	96.	18	26.	3	198.5	30.5	76.5	28.5	.900	30	-1.43	.60	14
RETROP	7565	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	0.000	30	99.99	0.00	30
REYDON	7579	4	59.7	30	999.0	96.	18	24.	3	218.5	9999.0	58.5	9999.0	.610	30	-1.66	.32	14
SAYRE	7952	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.011	30	-2.04	.01	14
TALOGA	8708	4	59.6	30	.3	94.	18	22.	3	212.0	11.0	49.5	19.5	.673	30	-1.77	.67	14
THOMAS	8815	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.250	30	99.99	.25	13
WATONGA	9364	4	60.2	30	999.0	95.	18	25.	4	210.5	9999.0	65.0	9999.0	.451	30	-1.97	.31	14
WEATHERFORD	9422	4	60.1	29	-.7	94.	19	25.	3	204.5	36.5	62.5	20.5	.183	30	-2.05	.18	14
VICI	9172	4	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.420	30	99.99	1.35	14

Note = 9999.0, 999.0, 99.99 indicate missing records.

Trace = .001

APRIL 1987 SUMMARY FOR CENTRAL DIVISION (CD5)

NAME	ID	DIV	DEV				HEAT		DEV		COOL		DEV		DEV			
			MEAN	NUM	FROM	MAX	MIN	DEG	FROM	DEG	FROM	TOT	NUM	FROM	MAX			
			TEMP	OBS	NORM	TEMP	DAY	TEMP	DAY	DAY	NORM	DAY	NORM	PPT	OBS	NORM	24-HR	DAY
AMBER	200	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.420	30	99.99	.28	21
CUSHING	2318	5	61.1	29	.7	95.	19	28.	5	193.5	24.5	80.0	49.0	.450	30	-2.73	.45	10
TINKER AFB	325	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	0.000	30	99.99	0.00	30
BLANCHARD	830	5	62.7	30	999.0	94.	19	29.	3	158.0	9999.0	89.0	9999.0	1.532	30	99.99	1.51	21
BRISTOW	1144	5	62.8	30	.9	97.	18	25.	3	153.5	-2.5	87.0	24.0	1.091	30	-2.46	.85	20
CHANDLER	1684	5	62.8	30	.8	96.	18	27.	3	155.0	14.0	89.0	38.0	.650	30	-2.57	.65	21
CHICKASHA RES STA	1750	5	61.0	29	-1.3	97.	18	25.	3	167.0	25.0	51.0	-10.0	.360	30	-2.48	.32	21
COX CITY	2196	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.030	30	99.99	1.03	20
CRESCENT	2242	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.870	30	99.99	.71	21
EL RENO	2818	5	60.8	30	.3	95.	18	26.	3	195.5	17.5	71.0	28.0	.040	30	-2.54	.02	20
GUTHRIE	3921	5	63.3	30	2.1	98.	18	28.	3	153.0	-11.0	103.5	53.5	.450	30	-2.15	.30	14
HENNESSEY	4055	5	59.7	30	-.5	92.	19	26.	3	218.5	34.5	59.5	19.5	.310	30	-2.07	.17	14
INGALLS	4439	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.261	30	99.99	.76	10
KINGFISHER	4861	5	60.3	30	-.5	94.	18	25.	3	201.0	27.0	61.0	13.0	.050	30	-2.37	.04	14
KINGFISHER CREEK	4862	5	60.2	29	999.0	94.	17	25.	3	186.5	9999.0	47.5	9999.0	.050	30	99.99	.04	14
UJC KINGFISHER	4864	5	60.4	29	999.0	94.	17	29.	4	181.5	9999.0	47.5	9999.0	.050	30	99.99	.04	14
KONAWA	4915	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.362	30	-3.76	.35	21
MARSHALL	5589	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.360	30	-2.02	.17	14
MULHALL	6110	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.390	30	99.99	.27	21
NORMAN	6386	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.760	30	-2.54	.73	21
OILTON	6616	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.220	30	99.99	.83	21
OKEMAH	6638	5	61.9	30	.1	93.	18	28.	3	171.0	35.0	79.0	39.0	.580	30	-3.60	.44	21
OKLAHOMA CITY	6661	5	62.0	30	1.8	94.	19	31.	3	179.0	-5.0	88.0	48.0	.420	30	-2.49	.34	20
PERKINS	7003	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.680	30	-1.96	.46	21
PIEDMONT	7068	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.510	30	99.99	.43	21
PRAGUE	7264	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.542	30	-2.33	1.54	21
PURCELL	7327	5	61.2	30	-.5	94.	18	25.	3	175.0	21.0	62.5	7.5	2.040	30	-1.33	1.95	21
SEMINOLE	8042	5	63.4	30	.2	96.	19	29.	3	138.5	6.5	91.0	13.0	.601	30	-3.49	.60	21
SHAWNEE	8110	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.680	30	-2.19	1.64	21
STELLA	8479	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.210	30	99.99	1.12	21
STILLWATER	8501	5	59.6	29	-.8	96.	19	25.	3	211.0	28.0	54.0	9.0	.621	30	-1.96	.27	21
NEEKER	5779	5	62.4	30	1.1	95.	18	26.	3	170.0	12.0	91.5	44.5	1.750	30	-1.81	1.75	20
STROUD	8563	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.470	30	99.99	1.32	21
TECUMSEH	8751	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.111	30	99.99	1.11	21
TROUSDALE	8960	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.360	30	99.99	1.29	20
UNION CITY	9086	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.620	31	-2.71	.62	21
WELTY	9479	5	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.652	30	99.99	.65	21

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

APRIL 1987 SUMMARY FOR EAST CENTRAL DIVISION (CD6)

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	DAY	
MCALESTER	5664	6	62.1	30	.2	94.	18	29.	3	168.0	24.0	81.5	30.5	.210	30	-4.33	.09	14
ASHLAND	364	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.272	30	99.99	.27	13
BEGGS	631	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.470	30	99.99	.31	21
BOYNTON	1027	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.371	30	99.99	.16	10
CALVIN	1391	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.162	30	-4.27	.16	21
CHECOTAH	1711	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.213	30	-4.38	.12	10
DEWAR	2485	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.200	30	-4.00	.12	10
DUSTIN	2690	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.230	30	99.99	.14	21
EUFULA	2993	6	63.3	30	999.0	92.	29	31.	4	141.5	9999.0	91.0	9999.0	.420	30	-4.26	.27	13
HANNA	3084	6	62.0	30	999.0	95.	18	26.	4	163.0	9999.0	73.5	9999.0	.301	30	-4.14	.12	14
HARTSHORNE	3946	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.660	30	99.99	.38	13
HASKELL	3956	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.480	30	-3.63	.19	10
HOLDENVILLE	4235	6	62.2	30	.0	93.	18	28.	3	153.5	22.5	71.0	24.0	.290	30	-4.00	.22	21
LAKE EUFAULA	4975	6	61.8	29	999.0	95.	18	29.	3	172.0	9999.0	78.0	9999.0	.820	30	99.99	.53	13
LYONS	5437	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.750	30	-2.98	1.75	10
MARLOW	5581	6	62.2	30	999.0	92.	18	23.	3	170.5	9999.0	85.0	9999.0	.460	30	-2.22	.39	21
MCCURTAIN	5693	6	63.5	30	999.0	94.	19	26.	4	145.0	9999.0	98.5	9999.0	1.951	30	-2.82	1.40	14
MUSKOGEE	6130	6	62.5	30	.5	92.	20	27.	4	160.0	22.0	86.0	38.0	.430	30	-4.15	.25	14
OKMULGEE WATER WORK	6670	6	61.0	30	-1.3	96.	19	28.	4	175.5	44.5	55.0	5.0	.460	30	-4.06	.40	21
OKTAWA	6678	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.380	30	99.99	.16	14
QUINTON	7372	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.120	30	-3.21	1.04	13
SALLISAW	7862	6	61.4	30	-.0	92.	19	24.	4	165.5	35.5	56.5	10.5	3.760	30	-.71	1.97	13
SCIPIO	7979	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.420	30	99.99	.25	13
SCRAPER	7993	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.450	30	99.99	.35	15
SHORT	8170	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	4.981	30	99.99	3.33	14
TAHLEQUAH	8677	6	61.1	30	-.0	92.	18	24.	4	175.5	12.5	58.0	12.0	1.300	30	-3.26	.83	14
STILWELL	8506	6	60.2	30	999.0	89.	18	22.	4	199.5	9999.0	54.0	9999.0	1.732	30	-2.98	1.02	14
WEBBERS FALLS	9445	6	59.3	29	-1.3	92.	19	27.	4	202.0	31.0	37.0	-2.0	1.710	30	-2.89	1.33	14
WESTVILLE	9523	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	2.320	30	99.99	1.05	14
WETUMKA	9571	6	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.255	30	-4.11	.25	21

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

APRIL 1987 SUMMARY FOR SOUTHWEST DIVISION (CD7)

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	MIN DAY	DAY	TEMP	DAY	DEG DAY	FROM NORM	DEG DAY	FROM NORM	DEG DAY	FROM NORM					
ALTUS IRR STA	179	7	62.1	30	-1.2	95.	19	26.	3	174.0	50.0	87.5	14.5	0.000	30	-2.03	0.00	30			
ALTUS DAM	184	7	59.7	29	999.0	94.	18	28.	3	208.5	9999.0	54.0	9999.0	.050	30	-1.93	.05	6			
ANADARKO	224	7	60.2	28	-1.8	92.	19	22.	3	177.0	35.0	42.5	-9.5	1.060	29	-1.53	.99	21			
CARNEGIE	1504	7	61.2	30	-.6	95.	18	23.	3	178.0	28.0	63.0	9.0	0.000	30	-2.42	0.00	30			
CHATTANOOGA	1706	7	60.9	29	-1.9	92.	19	26.	3	176.0	47.0	58.0	-5.0	0.000	29	-2.48	0.00	30			
DUNCAN	2668	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.200	30	99.99	.20	21			
FLETCHER	3191	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.340	30	99.99	.18	20			
FREDERICK	3353	7	61.7	29	-2.7	96.	18	31.	3	175.5	70.5	78.5	-8.5	.040	30	-2.28	.03	22			
ALTUS AFB	447	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.034	30	99.99	.03	5			
GRANDFIELD	3709	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	0.000	30	-2.42	0.00	30			
HOSBART	4204	7	60.2	30	-.0	94.	17	26.	3	192.5	12.5	50.0	11.0	.021	30	-2.22	.02	5			
HOLLIS	4249	7	60.1	29	-3.1	98.	18	26.	3	186.5	64.5	43.5	-24.5	.210	29	-1.99	.21	5			
LANTON	5063	7	61.5	29	-1.2	93.	18	29.	2	172.0	45.0	71.5	13.5	.110	30	-2.30	.09	20			
FT SILL	5068	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.083	29	-2.33	.08	21			
LOCO	5247	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.610	30	99.99	.53	21			
LOOKABA	5329	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.080	30	99.99	.08	14			
MANGUM RS STA	5509	7	61.2	30	-1.5	96.	19	26.	3	166.5	26.5	52.0	-19.0	.090	30	-1.80	.09	6			
ROOSEVELT	7727	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.010	30	-2.24	.01	5			
RANDLETT	7403	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.400	30	99.99	.40	21			
SEDAN	8016	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	0.000	30	99.99	0.00	30			
SNYDER	8299	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.001	30	-2.05	.00	6			
VINSON	9212	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.150	30	-1.92	.15	6			
WALTERS	9278	7	62.3	30	-1.3	94.	18	28.	3	148.5	24.5	67.0	-15.0	.200	30	-2.63	.20	21			
WICHITA MT REF	9629	7	59.1	29	-2.7	94.	19	19.	3	211.5	63.5	41.5	-10.5	0.000	30	-2.45	0.00	30			
WILLOW	9668	7	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.013	30	99.99	.01	13			

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

APRIL 1987 SUMMARY FOR SOUTH CENTRAL DIVISION (CD8)

NAME	ID	DIV	DEV				HEAT		DEV		COOL		DEV		TOT PPT	DEV		
			MEAN TEMP	NUM OBS	FROM NORM	MAX TEMP	MIN DAY	DEG DAY	FROM NORM	DEG DAY	FROM NORM	DEG DAY	NUM OBS	FROM NORM		MAX 24-HR DAY		
ADA	17	8	62.3	30	-2	95.	21	27.	3	171.5	40.5	89.5	33.5	.351	30	-3.42	.20	21
ALLEN	147	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	0.000	30	99.99	0.00	30
ARDMORE	292	8	64.7	30	-5	94.	19	30.	3	129.0	48.0	120.5	33.5	.600	30	-3.27	.40	20
ATOKA DAM	394	8	62.4	29	999.0	95.	18	27.	1	165.5	9999.0	91.0	9999.0	.580	30	99.99	.41	13
BOKCHITO	917	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.250	30	99.99	.25	5
CANEY	1437	8	62.9	29	999.0	90.	28	30.	3	126.5	9999.0	66.5	9999.0	.300	30	99.99	.22	13
CENTRAHOMA	1648	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.220	30	99.99	.07	13
CHICKASAW NRA	1745	8	60.7	29	999.0	94.	19	24.	3	193.0	9999.0	68.5	9999.0	.870	30	99.99	.85	21
COLEMAN	2011	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.200	30	99.99	.20	13
COMANCHE	2054	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.390	30	99.99	.35	21
DAISY	2354	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.351	30	-4.08	1.01	13
DUNCAN	2660	8	61.9	29	-1.8	92.	19	28.	3	174.5	62.5	84.5	11.5	.350	30	-2.36	.34	21
DURANT USDA	2678	8	63.3	29	999.0	96.	18	28.	3	133.0	9999.0	83.0	9999.0	.290	30	-4.25	.17	14
ELMORE CITY	2872	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.002	30	99.99	1.00	20
FARRIS	3083	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.910	30	99.99	.76	13
GRADY	3688	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.480	30	99.99	.36	21
HEALDTON	4001	8	62.5	30	999.0	95.	19	27.	3	156.5	9999.0	80.5	9999.0	.161	30	-3.29	.12	21
HENNEPIN	4052	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.250	30	99.99	.20	20
KINGSTON	4865	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.300	30	-3.80	.18	21
LEHIGH	5108	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.341	30	99.99	.22	14
LINDSAY	5216	8	61.2	29	999.0	93.	19	26.	3	167.5	9999.0	56.5	9999.0	1.420	29	-1.89	1.40	21
MADILL	5468	8	64.4	30	.9	95.	18	30.	3	126.0	19.0	108.5	46.5	.620	30	-3.89	.52	20
MARIETTA	5563	8	64.7	30	1.2	96.	18	28.	3	122.5	12.5	112.0	47.0	.240	30	-3.56	.15	21
MCGEE CREEK	5713	8	61.9	29	999.0	95.	19	27.	3	163.5	9999.0	73.0	9999.0	.771	30	99.99	.62	13
OSWALT	6787	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.600	30	99.99	1.60	21
FAULS VALLEY	6926	8	61.7	30	-1.6	94.	19	29.	5	167.0	49.0	69.0	2.0	.940	30	-2.56	.92	21
PONTOTOC	7214	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	0.000	30	-4.09	0.00	30
TISHOMINGO	8884	8	60.0	20	999.0	99.	28	27.	4	119.5	9999.0	10.5	9999.0	.390	26	-4.22	.20	21
TUSSY	9032	8	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.290	30	99.99	1.25	21
WAURIKA	9395	8	63.4	30	-1.1	94.	19	28.	3	134.0	30.0	86.0	-3.0	.600	30	-2.36	.55	21

Note: 9999.0, 999.0, 99.99 indicate missing records.
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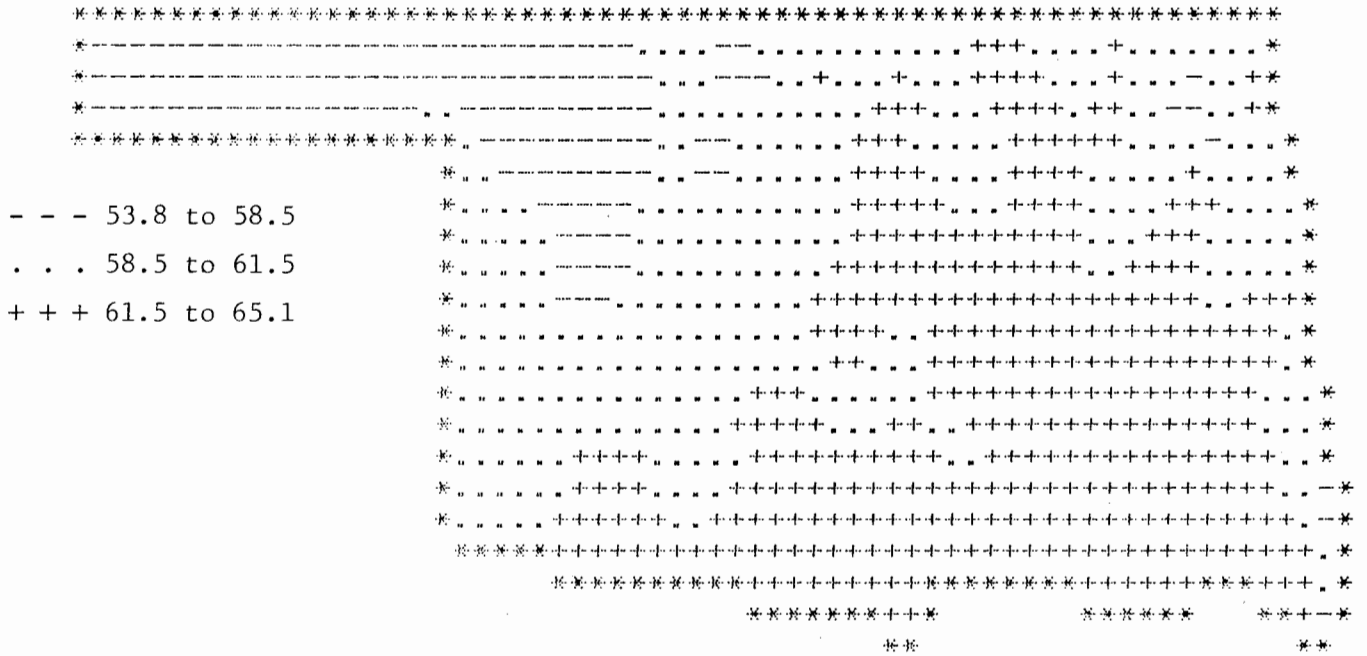
APRIL 1987 SUMMARY FOR SOUTHEAST DIVISION (CD9)

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	DAY	NORM	DAY	NORM	PPT	OBS	NORM	DAY	
ANTLERS	256	9	62.4	30	-.2	95.	18	28.	9	153.0	32.0	74.5	25.5	0.000	30	-5.11	0.00	30
BATTIEST	567	9	60.6	19	999.0	93.	27	22.	3	127.0	9999.0	43.5	9999.0	1.000	19	99.99	1.00	20
BEAR MT TW	584	9	65.1	30	999.0	97.	20	27.	3	125.0	9999.0	127.5	9999.0	.730	30	-4.37	.70	14
BENGAL	670	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.001	30	99.99	.63	14
BOSWELL	980	9	62.8	30	999.0	93.	18	26.	3	142.5	9999.0	78.0	9999.0	.211	30	-4.36	.15	14
BROKEN BOW	1162	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.250	30	-5.00	.25	14
BROKEN BOW DAM	1168	9	61.5	29	999.0	95.	18	24.	3	155.5	9999.0	54.5	9999.0	.340	30	99.99	.34	14
BUFFALO MT TW	1251	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.120	30	99.99	.58	13
CARNASAW TW	1499	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.220	30	-5.26	.22	14
CARTER MT	1544	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.420	30	-4.84	.42	14
FANSHAW	3065	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.800	30	-3.12	1.02	14
HEAVENER	4008	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.002	30	-3.93	.95	15
HEE MT TW	4017	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.510	30	99.99	.49	14
HUGO	4384	9	64.4	30	.3	93.	27	29.	3	122.5	28.5	103.5	36.5	.290	30	-4.43	.29	14
IDABEL	4451	9	61.5	29	-1.7	93.	18	26.	1	151.0	43.0	49.0	-5.0	.210	30	-5.19	.21	14
JADIE TOWER	4560	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	.260	30	99.99	.24	13
SMITHVILLE	8285	9	58.0	30	999.0	92.	29	18.	4	228.5	9999.0	43.5	9999.0	.382	30	99.99	.38	14
SPIRO	8416	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.070	30	-2.75	1.33	14
POTEAU WATER WORKS	7254	9	60.6	29	999.0	96.	18	23.	3	100.5	9999.0	54.0	9999.0	1.070	30	99.99	.65	13
TUSKAROMA	9023	9	62.0	30	999.0	95.	18	21.	3	169.0	9999.0	77.5	9999.0	.910	30	99.99	.50	13
VALLIANT	9118	9	999.0	0	999.0	999.	0	999.	0	999.0	9999.0	999.0	9999.0	1.272	30	-3.73	1.27	14
ZOE	9905	9	58.4	27	999.0	95.	19	19.	4	200.0	9999.0	22.5	9999.0	.650	29	-4.35	.30	12

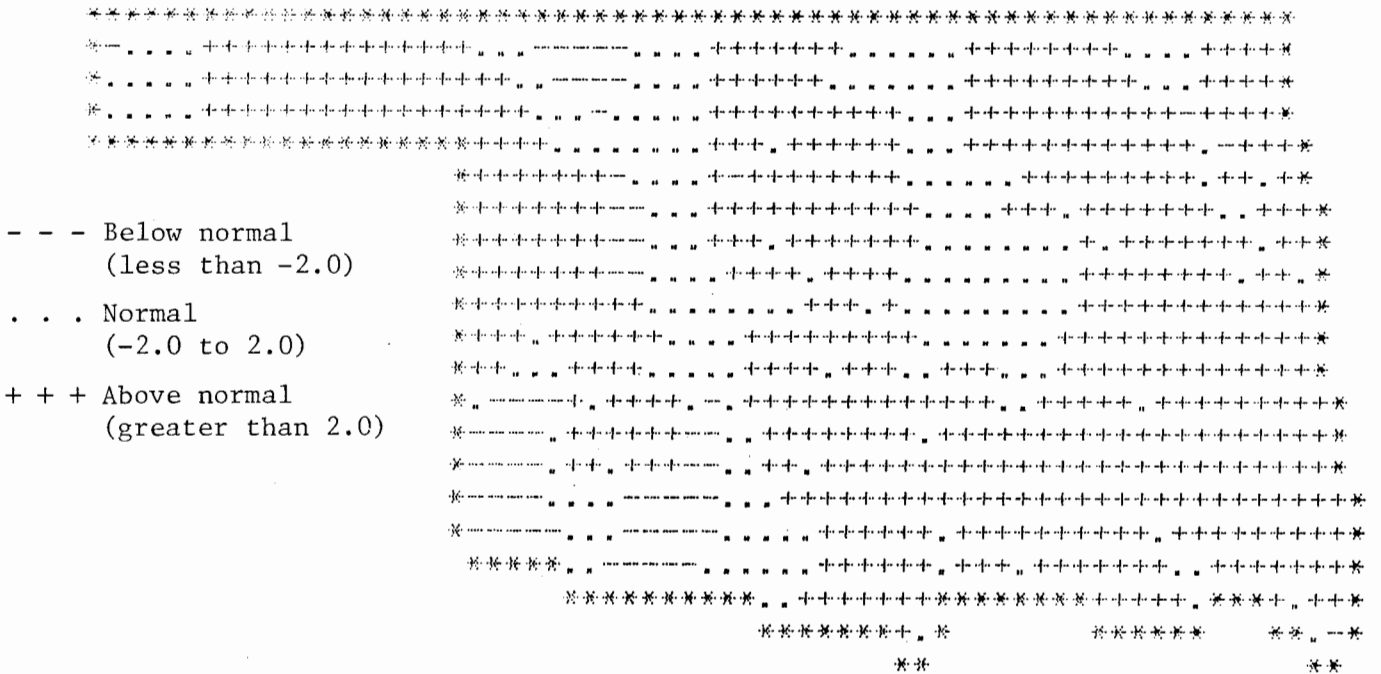
APRIL 1987 CLIMATE DIVISION SUMMARY

CLIMATE	MEAN	NUM	DEV				HEAT		DEV		COOL		DEV		DEV	
			FROM	MAX	MIN	DEGREE	FROM	DEGREE	FROM	TOT	NUM	FROM	MAX	24-HR	DAY	
DIV	TEMP	STA	NORM	TEMP	DAY	TEMP	DAY	DAYS	NORM	DAYS	NORM	PPT	STA	NORM	24-HR	DAY
1	55.7	8	-1.0	96.0	17	20.0	3	299.9	33.2	26.7	9.4	.84	12	-.69	1.38	14
2	59.4	15	-.2	100.0	18	21.0	3	225.4	26.1	59.1	22.4	.87	24	-1.66	1.56	14
3	60.9	18	.6	100.0	17	22.0	4	189.1	6.9	67.0	27.7	1.01	33	-2.58	1.30	21
4	59.4	11	-1.0	96.0	18	22.0	3	217.2	37.1	51.3	9.2	.32	19	-1.97	1.35	14
5	61.5	17	.2	98.0	18	25.0	3	176.9	15.8	73.6	24.2	.77	37	-2.42	1.95	21
6	61.7	13	-.0	96.0	19	22.0	4	168.6	24.6	71.2	24.4	.95	30	-3.46	3.33	14
7	60.0	12	-1.0	98.0	18	19.0	3	180.5	45.0	59.1	-4.5	.15	25	-2.15	.99	21
8	62.7	14	-1.0	97.0	28	24.0	3	152.1	43.1	84.9	13.6	.56	30	-3.35	1.60	21
9	61.0	10	-1.5	97.0	20	18.0	4	162.7	55.1	68.4	11.8	.70	21	-4.34	1.33	14

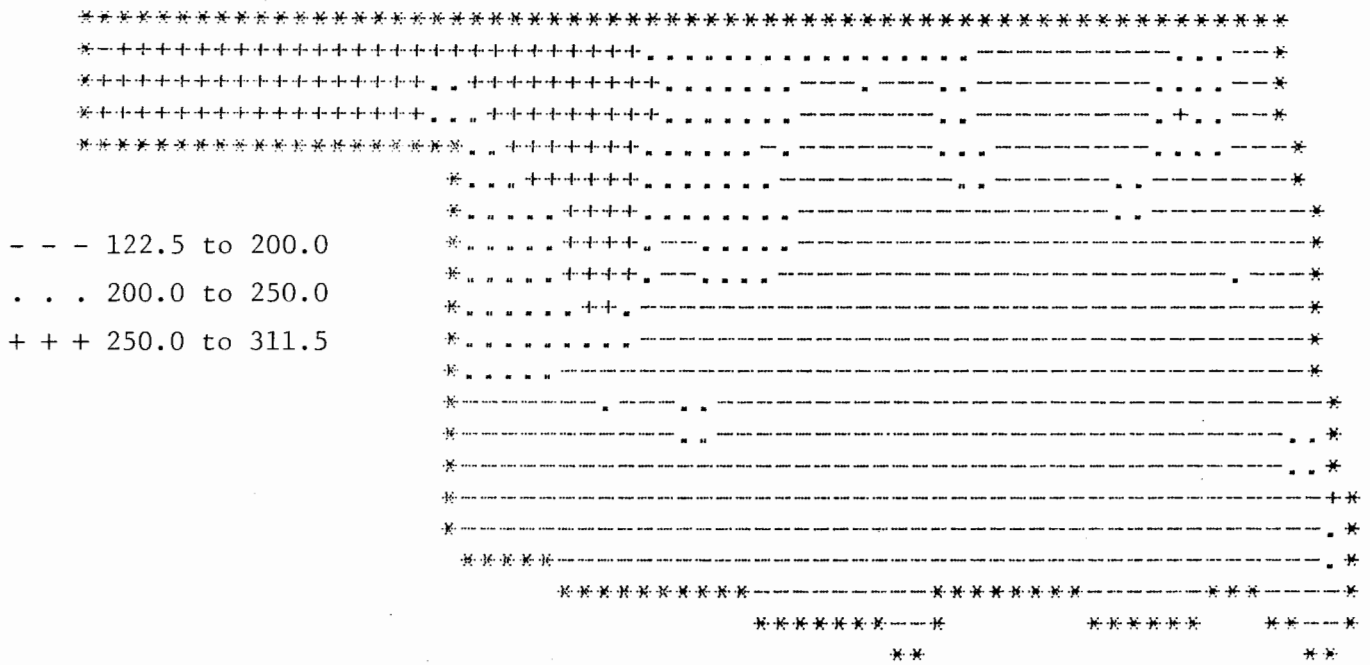
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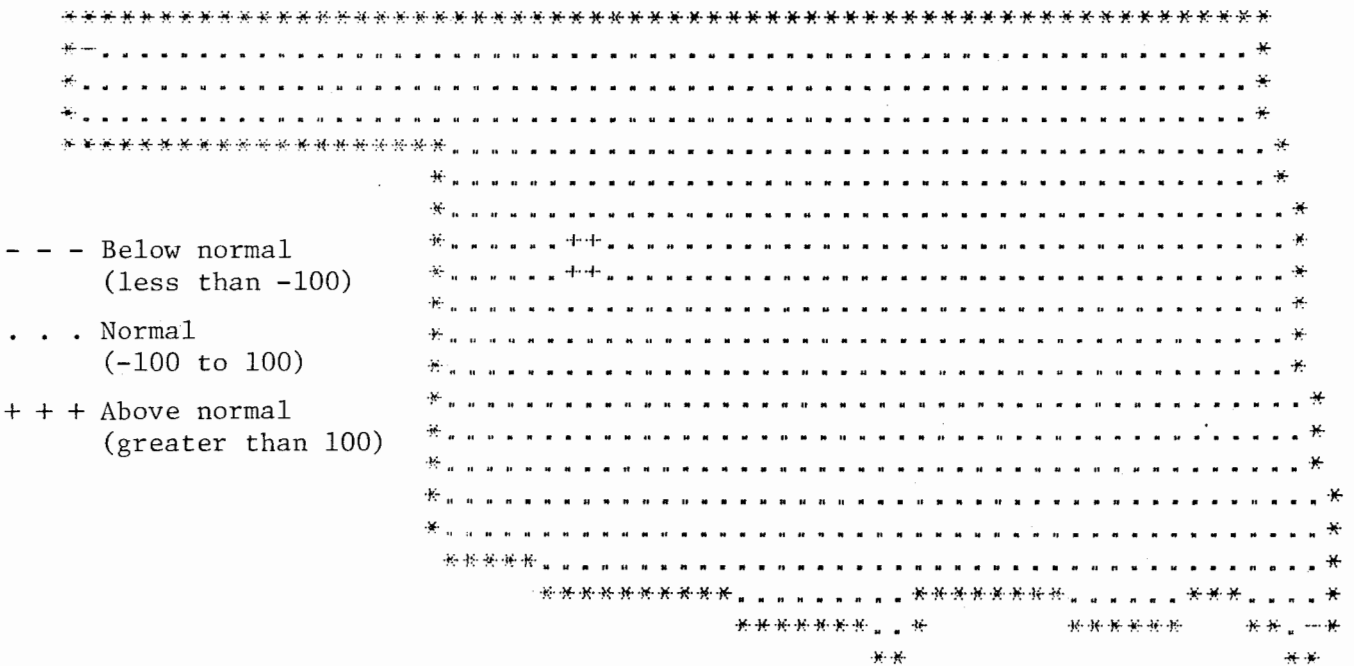
APRIL 1987 AVERAGE MONTHLY TEMPERATURE
(Degrees F)



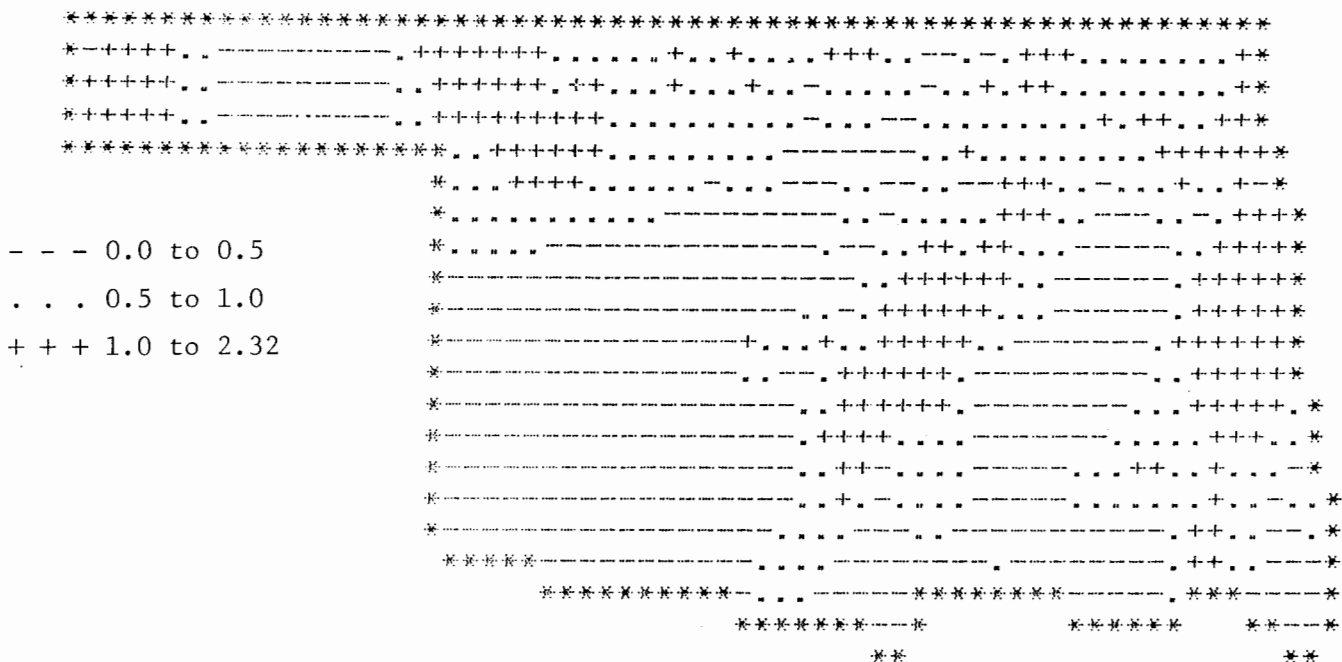
APRIL 1987 DEVIATION FROM NORMAL TEMPERATURES



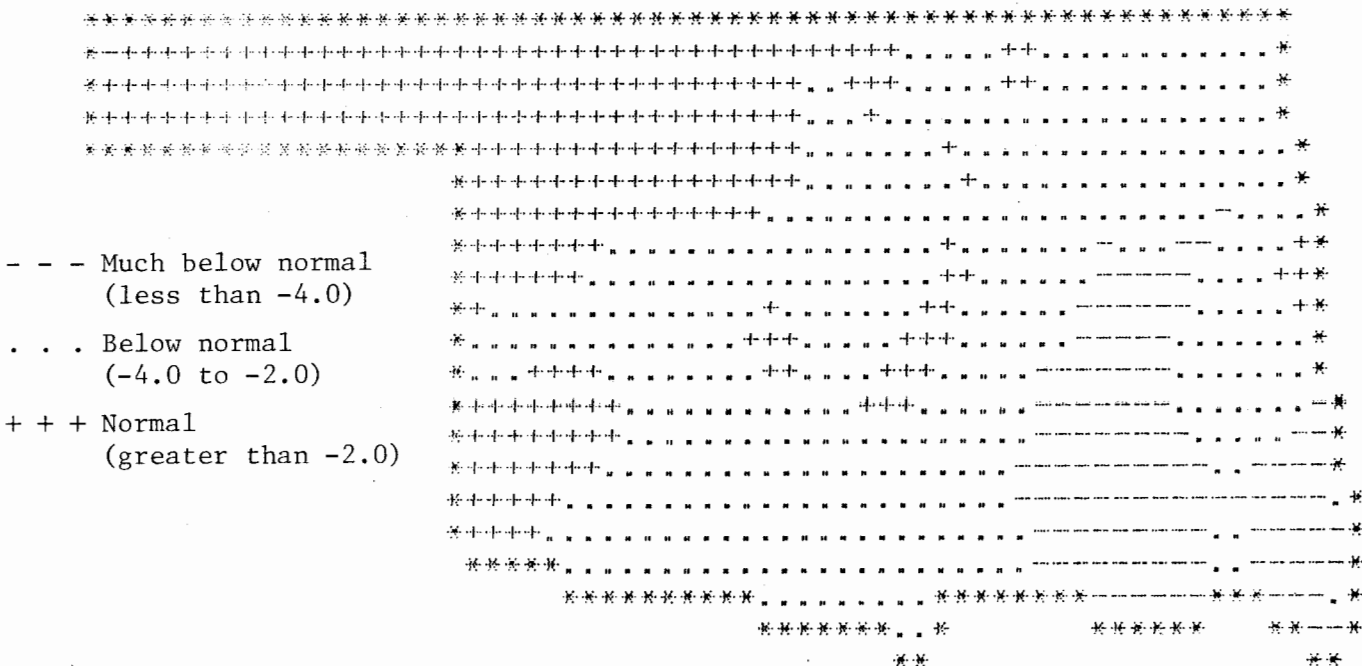
APRIL 1987 TOTAL HEATING DEGREE DAYS



APRIL 1987 DEVIATION FROM NORMAL HEATING DEGREE DAYS



APRIL 1987 TOTAL PRECIPITATION
(Inches)



APRIL 1987 DEVIATION FROM NORMAL PRECIPITATION

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).

JUNE 1987
 CLIMATE CALENDAR

<p>1</p> <p>Normal 80.0 max 60.9 min .227 pcpn 0 HDD 6 CDD Highest Max 96-1953 Lowest Max 69-1970 Lowest Min 49-1964 Highest Min 75-1943 Greatest pcpn 3.37-1962</p>	<p>2</p> <p>Normal 80.8 max 60.9 min .227 pcpn 0 HDD 7 CDD Highest Max 94-1953 Lowest Max 61-1946 Lowest Min 52-1969 Highest Min 74-1943 Greatest pcpn 1.66-1973</p>	<p>3</p> <p>Normal 81.4 max 61.2 min .119 pcpn 0 HDD 7 CDD Highest Max 95-1953 Lowest Max 63-1982 Lowest Min 51-1946 Highest Min 73-1943 Greatest pcpn 6.75-1932</p>	<p>4</p> <p>Normal 82.8 max 62.3 min .165 pcpn 0 HDD 8 CDD Highest Max 94-1942 Lowest Max 62-1928 Lowest Min 47-1954 Highest Min 73-1943 Greatest pcpn 3.38-1986</p>	<p>5</p> <p>Normal 83.6 max 63.3 min .102 pcpn 0 HDD 9 CDD Highest Max 98-1933 Lowest Max 72-1950 Lowest Min 52-1928 Highest Min 75-1933 Greatest pcpn 3.72-1985</p>	<p>6</p> <p>Normal 85.4 max 63.3 min .069 pcpn 0 HDD 10 CDD Highest Max 95-1926 Lowest Max 70-1935 Lowest Min 53-1973 Highest Min 74-1934 Greatest pcpn 3.01-1940</p>	<p>7</p> <p>Normal 86.3 max 64.2 min .098 pcpn 0 HDD 10 CDD Highest Max 97-1926 Lowest Max 70-1935 Lowest Min 51-1935 Highest Min 78-1980 Greatest pcpn 1.10-1968</p>
<p>8</p> <p>Normal 86.4 max 65.8 min .254 pcpn 0 HDD 11 CDD Highest Max 98-1981 Lowest Max 72-1938 Lowest Min 56-1977 Highest Min 76-1984 Greatest pcpn 2.60-1974</p>	<p>9</p> <p>Normal 86.0 max 65.2 min .069 pcpn 0 HDD 11 CDD Highest Max 100-1933 Lowest Max 64-1955 Lowest Min 54-1974 Highest Min 76-1941 Greatest pcpn 1.43-1984</p>	<p>10</p> <p>Normal 87.0 max 65.0 min .120 pcpn 0 HDD 11 CDD Highest Max 99-1934 Lowest Max 68-1955 Lowest Min 50-1955 Highest Min 75-1933 Greatest pcpn 4.48-1945</p>	<p>11</p> <p>Normal 87.5 max 66.2 min .095 pcpn 0 HDD 12 CDD Highest Max 98-1929 Lowest Max 73-1940 Lowest Min 51-1955 Highest Min 75-1929 Greatest pcpn 1.61-1951</p>	<p>12</p> <p>Normal 87.6 max 66.6 min .114 pcpn 0 HDD 12 CDD Highest Max 102-1953 Lowest Max 73-1945 Lowest Min 51-1955 Highest Min 78-1958 Greatest pcpn 4.74-1944</p>	<p>13</p> <p>Normal 87.8 max 66.9 min .057 pcpn 0 HDD 13 CDD Highest Max 98-1953 Lowest Max 70-1927 Lowest Min 53-1985 Highest Min 78-1958 Greatest pcpn 1.66-1927</p>	<p>14</p> <p>Normal 88.7 max 67.3 min .206 pcpn 0 HDD 13 CDD Highest Max 105-1953 Lowest Max 62-1927 Lowest Min 51-1947 Highest Min 77-1953 Greatest pcpn 3.95-1929</p>
<p>15</p> <p>Normal 88.2 max 66.2 min .090 pcpn 0 HDD 13 CDD Highest Max 103-1953 Lowest Max 74-1969 Lowest Min 55-1969 Highest Min 78-1953 Greatest pcpn 3.01-1929</p>	<p>16</p> <p>Normal 86.9 max 66.4 min .256 pcpn 0 HDD 12 CDD Highest Max 99-1953 Lowest Max 70-1961 Lowest Min 54-1976 Highest Min 77-1953 Greatest pcpn 3.59-1955</p>	<p>17</p> <p>Normal 87.5 max 66.5 min .089 pcpn 0 HDD 12 CDD Highest Max 97-1936 Lowest Max 69-1963 Lowest Min 57-1945 Highest Min 76-1985 Greatest pcpn 1.85-1975</p>	<p>18</p> <p>Normal 88.4 max 67.5 min .074 pcpn 0 HDD 13 CDD Highest Max 101-1936 Lowest Max 75-1961 Lowest Min 57-1945 Highest Min 77-1931 Greatest pcpn .93-1957</p>	<p>19</p> <p>Normal 89.4 max 67.6 min .071 pcpn 0 HDD 14 CDD Highest Max 100-1953 Lowest Max 73-1926 Lowest Min 55-1926 Highest Min 79-1953 Greatest pcpn 1.30-1938</p>	<p>20</p> <p>Normal 90.1 max 67.4 min .199 pcpn 0 HDD 14 CDD Highest Max 105-1953 Lowest Max 80-1961 Lowest Min 51-1976 Highest Min 76-1942 Greatest pcpn .96-1932</p>	<p>21</p> <p>Normal 89.5 max 67.8 min .233 pcpn 0 HDD 14 CDD Highest Max 104-1936 Lowest Max 72-1958 Lowest Min 56-1961 Highest Min 78-1936 Greatest pcpn 3.28-1948</p>
<p>22</p> <p>Normal 90.1 max 68.0 min .146 pcpn 0 HDD 14 CDD Highest Max 107-1936 Lowest Max 78-1927 Lowest Min 56-1935 Highest Min 79-1936 Greatest pcpn 2.38-1957</p>	<p>23</p> <p>Normal 87.8 max 67.6 min .239 pcpn 0 HDD 13 CDD Highest Max 101-1933 Lowest Max 73-1957 Lowest Min 58-1958 Highest Min 77-1934 Greatest pcpn 1.65-1963</p>	<p>24</p> <p>Normal 88.1 max 67.7 min .102 pcpn 0 HDD 13 CDD Highest Max 103-1933 Lowest Max 67-1929 Lowest Min 54-1957 Highest Min 78-1937 Greatest pcpn 2.06-1948</p>	<p>25</p> <p>Normal 87.9 max 67.9 min .280 pcpn 0 HDD 13 CDD Highest Max 105-1980 Lowest Max 68-1967 Lowest Min 51-1974 Highest Min 79-1953 Greatest pcpn 2.29-1960</p>	<p>26</p> <p>Normal 89.2 max 68.0 min .060 pcpn 0 HDD 14 CDD Highest Max 102-1972 Lowest Max 71-1928 Lowest Min 50-1958 Highest Min 81-1933 Greatest pcpn 1.70-1986</p>	<p>27</p> <p>Normal 91.4 max 68.3 min .007 pcpn 0 HDD 15 CDD Highest Max 103-1980 Lowest Max 76-1985 Lowest Min 52-1974 Highest Min 79-1933 Greatest pcpn 1.81-1985</p>	<p>28</p> <p>Normal 91.2 max 68.8 min .047 pcpn 0 HDD 15 CDD Highest Max 105-1980 Lowest Max 81-1940 Lowest Min 56-1974 Highest Min 78-1986 Greatest pcpn 2.07-1939</p>
<p>29</p> <p>Normal 92.1 max 70.0 min .012 pcpn 0 HDD 16 CDD Highest Max 100-1933 Lowest Max 81-1942 Lowest Min 62-1985 Highest Min 78-1947 Greatest pcpn 1.14-1983</p>	<p>30</p> <p>Normal 91.7 max 70.4 min .028 pcpn 0 HDD 16 CDD Highest Max 101-1934 Lowest Max 79-1951 Lowest Min 59-1943 Highest Min 80-1980 Greatest pcpn 1.09-1942</p>					