OKLAHOMA
MONTHLY SUMMARY
FEBRUARY 1990

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FEBRUARY 1990 OKLAHOMA SUMMARY

A succession of cold fronts brought precipitation throughout the month, producing the third wettest February in Oklahoma's recorded history (see Table 1). Several stations reported record February precipitation totals (see Table 2). The wet month followed the fifth wettest January on record. These months combined to produce the 3rd greatest Statewide precipitation accumulation on record for the 2-month period (see Table 3). Above normal temperatures Statewide, including record and near record maximum temperatures, and morning lows frequently moderated by cloud cover, rank this February as the 14th warmest on record.

Oklahoma's first cold front of the month moved southeastward across the State on February 1. Three to four inch rainfall accumulations in east central and southeastern Oklahoma resulted in localized street flooding. The circulation around a powerful upper level storm to the west of the State supplied moisture ahead of a second surface cold front on February 2. These forces generated a winter storm over western and central Oklahoma. Snow mixed with freezing rain produced icy roads, which contributed to approximately 100 Oklahoma City vehicle accidents on the morning of February 3. Southeastern Oklahoma received additional rain rather than snow. The three-day 3 to 3.5 inch accumulations in the region exceeded the long-term mean precipitation total for the entire month of February.

Southerly winds and clear skies quickly returned. Temperatures rose into the 70's Statewide by the 8th. Tulsa's 76 degree reading broke its 1957, 75 degree record for the date and Guthrie tied its 1954 record of 74 degrees. High temperatures approached records across the State.

Slightly cooler air arrived on February 8 and 9 as an upper level storm system steered a cold front and its rain through the State. The greatest rainfall again occurred in extreme southeastern Oklahoma. Most stations in the remaining southeastern two-thirds of the State received between .25 and .50 inches.

Just a few days after this frontal precipitation, high winds and low humidities quickly dried grasses and heightened the wildfire danger. On February 12, devastating fires destroyed thousands of acres and several houses in central Oklahoma.

The leading edge of Oklahoma's coldest air of the month arrived with a front on February 13. Temperatures dropped from the 60's to the 40's in 2 to 3 hours. The Arctic air mass continued to drift into the State during the next 3 days. Maximum temperatures reached only into the 30's over most of the State on February 15, some 35 to 45 degrees lower than the highs of 3 days earlier. Morning lows dipped into the 20's and teens Statewide on February 16. Sleet and freezing rain iced roads in the northwestern two-thirds of the State and were blamed for a 14-car accident. Ice accumulations snapped tree limbs and power lines, causing power outages in central Oklahoma. The Statewide precipitation eased the wildfire threat appreciably.

The greatest snowfall of the month struck the Panhandle on February 19 as an intense upper level storm system pushed a surface cold front southeastward through the area. Guymon reported 8" of snow and Boise City recorded an accumulation of 12". After entering Texas, the storm system turned toward the northeast and delivered light snow to western and central Oklahoma and over one inch of rain to much of the rest of the State on February 21 and 22.

A final, powerful cold front crossed the State during the last two days of the month. Rainfall amounts exceeded 1" in all CD's except 1 and 9, pushing some monthly totals above previous records.

-R. J. Sladewski

TABLE 1

The 5 Greatest Statewide February Precipitation Amounts (1892-1990)

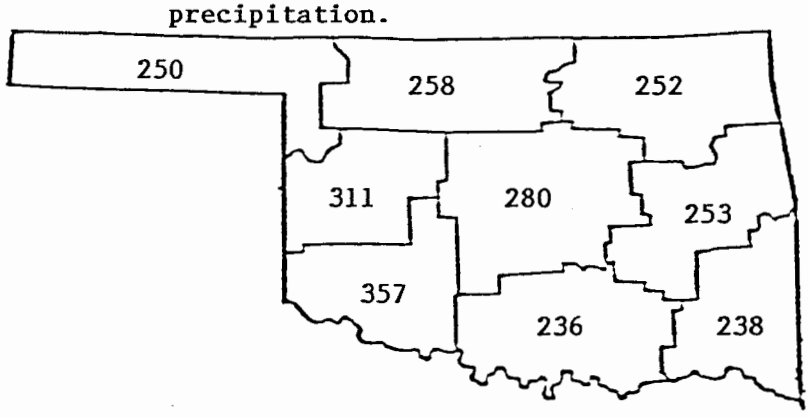
RANK	YEAR	AMOUNT
1	1938	4.66"
2	1903	4.08"
3	1990	3.94"
4	1915	3.77"
5	1987	3.71"

TABLE 2

February 1990 Record Precipitation Amounts (1948-1990) For Selected Oklahoma Stations

CD	Station	Previous Record Year	Previous Record Amounts	1990 Amount
4	Weatherford	1960	3.02"	4.19"
5	El Reno	1987	3.57"	3.79"
6	McCurtain	1966	5.39"	9.11"
7	Wichita Mt WLR	1978	2.99"	4.90"
9	Boswell 4 NNW	1950	6.95"	8.03"

Map 1. February 1990 percent of normal precipitation.



Oklahoma recorded its 5th wettest January and 3rd wettest February in 1990. Statewide-averages totaled 6.92 inches and ranked 1990 as the 3rd wettest January/February period on record (1898-1990).

Table 3 lists the 10 greatest January/February combined precipitation totals and the years in which they occurred. The fourth column (labeled March) provides the precipitation rank of the next month (March) of the same year. The final column shows the rank of the annual precipitation of that year.

From this table there appears to be little or no connection between March precipitation amounts during the years with very high January/February totals. Of the nine March listings, four rank in the driest and five rank in the wettest 49 years. Upon visual inspection, the annual values, however, do suggest a connection; all the annual totals, except 1916, rank in the wettest one-half. Three of these years rank in the top 10. Above average annual precipitation might be expected in these years given the first two months had already delivered much above average precipitation.

TABLE 3

Year	Jan and Feb Precipitation Total	Jan and Feb Rank	March Precipitation Rank	Annual Rank
1949	7.53"	1	49	21
1932	7.12"	2	81	42
1990	6.92"	3	*	*
1938	6.62"	4	8	49
1987	5.93"	5	27	9
1898	5.79"	6	11	15
1985	5.39"	7	3	7
1946	5.33"	8	54	34
1916	5.25"	9	67	73
1915	5.02"	10	53	5

NOTE: Ranks run from wettest to driest
* Not yet available

TABLE OF 1989/1990 COMPARISONS

Station	February Temperature (F) 1989	1990	February Precipitation (in.) 1989	1990
Arentt	28.4	41.1	.96	2.65
Enid	*	43.9	*	3.60
Mutual	29.5	43.9	1.51	2.22
Tulsa	32.6	47.7	2.32	3.33
Elk City	32.3	44.2	1.14	2.73
Oklahoma City	33.6	47.5	2.45	4.29
McAlester	36.7	50.1	5.40	5.87
Altus Irr. Sta.	36.1	48.1	1.25	2.86
Durant	37.5	*	3.93	*
Ada	34.4	48.0	6.93	3.41
Antlers	39.3	50.7	3.84	6.85

EXTREMES

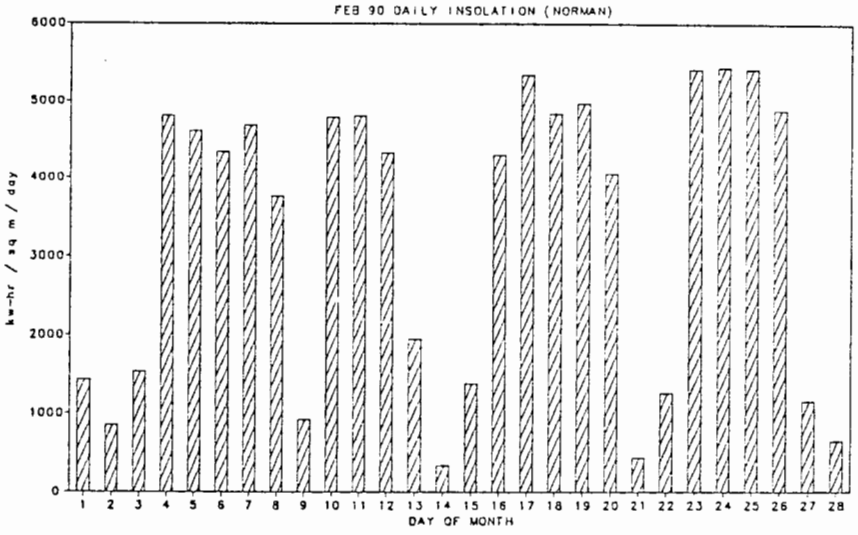
Variable	Station	Division	Observation	Date
Minimum temperatures (F)	Boise City	1	-1	16
Maximum temperatures (F)	Buffalo	1	83	12
	Altus Irr Sta	7	83	12
Maximum 24-hour precipitation	Flagpole	9	3.22"	15

INSOLATION DATA AVAILABLE

The University of Oklahoma's School of Meteorology is observing and archiving incoming solar radiation data as part of a cooperative effort with the Agricultural Research Service, USDA at Durant, OK. The observation site, operated continuously since September 1987, is located at Max Westheimer Airport in Norman. The data are representative of central Oklahoma and available through the Oklahoma Climatological Survey. The table and chart below depict the February 1990 daily observations.

February 1990 Daily Insolation Data for Norman, OK
(Insolation units are watt-hours per square meter per day)

DATE	INSOLATION AMOUNT
1	1429.07
2	854.95
3	1535.18
4	4810.04
5	4611.98
6	4339.20
7	4686.98
8	3761.97
9	923.26
10	4791.15
11	4805.59
12	4326.70
13	1950.43
14	341.31
15	1380.34
16	4301.98
17	5344.76
18	4839.48
19	4973.10
20	4057.53
21	438.45
22	1257.65
23	5417.82
24	5440.04
25	5419.21
26	4883.93
27	1159.20
28	651.78



FEBRUARY 1990 SUMMARY FOR NORTHWEST DIVISION (CD1)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
ARNETT	332	1	40.7	28	2.5	77.	13	14.	17	680.0	-70.0	.0	.0	2.651	28	1.98	.87	28
BEAVER	593	1	37.4	28	-.7	79.	13	8.	17	773.0	20.0	.0	.0	2.120	28	1.54	.84	21
BOISE CITY 2 E	908	1	36.8	28	-1.5	74.	12	-1.	16	789.5	41.5	.0	.0	1.630	28	1.14	1.20	20
BUFFALO	1243	1	43.7	28	3.3	83.	12	12.	16	596.0	-93.0	.0	.0	1.480	28	.56	.63	21
FARGO	3070	1	*****	0	*****	****	0	****	0	******	******	******	******	2.591	28	1.74	.92	22
GAGE FAA APT	3407	1	42.6	28	4.3	78.	12	15.	16	627.0	-121.0	.0	.0	1.895	28	1.08	.57	22
GATE	3489	1	39.4	28	*****	82.	13	13.	16	717.5	******	.0	******	2.140	28	*****	.81	22
GOODWELL RES ST	3628	1	36.0	28	-2.6	75.	13	8.	16	813.0	74.0	.0	.0	.931	28	.62	.33	21
GUYMON	3835	1	37.4	27	*****	75.	12	9.	16	744.5	******	.0	******	1.353	28	*****	1.00	21
HOOKER	4298	1	36.3	28	-2.2	75.	13	11.	17	805.0	60.0	.0	.0	2.210	28	1.75	1.88	21
KENTON	4766	1	35.1	28	-3.5	75.	13	0.	16	836.0	97.0	.0	.0	1.460	28	1.18	.91	20
LAVERNE	5045	1	*****	0	*****	****	0	****	0	******	******	******	******	2.082	28	1.20	.70	22
OPTIMA LAKE	6740	1	36.4	28	*****	78.	13	8.	16	801.0	******	.0	******	1.020	28	*****	.76	21
REGNIER	7534	1	*****	0	*****	****	0	****	0	******	******	******	******	1.360	28	1.09	.79	20
TURPIN 4 SSE	9017	1	36.4	28	*****	76.	13	10.	16	800.5	******	.0	******	1.580	28	*****	1.00	21

FEBRUARY 1990 SUMMARY FOR NORTH CENTRAL DIVISION (CD2)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
ALVA	193	2	43.4	28	*****	76.	12	17.	17	604.0	******	.0	******	2.570	28	*****	.91	22
VANCE AFB	302	2	*****	0	*****	****	0	****	0	******	******	******	******	1.824	28	*****	.49	28
BILLINGS	755	2	42.5	28	*****	78.	13	15.	16	630.5	******	.0	******	3.442	28	2.22	1.33	28
BLACKWELL 2E	818	2	42.6	28	*****	76.	12	18.	4	628.5	******	.0	******	2.772	28	*****	.98	28
BRAMAN	1075	2	*****	0	*****	****	0	****	0	******	******	******	******	2.702	28	*****	.98	28
CHEROKEE	1724	2	43.8	28	3.8	75.	12	19.	16	595.0	-108.0	.0	.0	3.050	26	*****	1.25	21
ENID	2912	2	43.9	28	3.2	75.	12	17.	16	591.5	-88.5	.0	.0	3.600	28	2.44	1.29	22
FT SUPPLY DAM	3304	2	39.3	28	-.5	79.	13	14.	16	720.5	14.5	.0	.0	1.700	28	.85	.57	28
FREEDOM	3358	2	40.9	28	*****	79.	12	14.	17	674.0	******	.0	******	2.021	28	*****	.94	22
GREAT SALT PLNS	3740	2	43.3	28	*****	76.	13	21.	16	607.0	******	.0	******	2.921	28	2.10	1.32	22
HARDY	3909	2	*****	0	*****	****	0	****	0	******	******	******	******	3.203	28	*****	1.10	27
HELENA 1 SSE	4019	2	40.7	28	*****	76.	13	16.	16	680.0	******	.0	******	3.514	28	2.51	1.39	22
JEFFERSON	4573	2	43.1	28	3.5	76.	12	17.	16	614.5	-96.5	.0	.0	3.520	28	2.55	1.23	21
LAMONT	5013	2	*****	0	*****	****	0	****	0	******	******	******	******	3.050	28	*****	.98	22
MEDFORD	5768	2	*****	0	*****	****	0	****	0	******	******	******	******	3.930	28	*****	1.17	21
MORRISON	6065	2	*****	0	*****	****	0	****	0	******	******	******	******	3.570	28	*****	1.31	22
MUTUAL	6139	2	40.9	28	1.7	74.	13	17.	16	673.5	-48.5	.0	.0	2.222	28	1.29	.80	22
NEWKIRK	6278	2	43.1	28	4.2	75.	13	17.	5	612.5	-118.5	.0	.0	.991	28	-.11	.26	28
ORIENTA	6751	2	*****	0	*****	****	0	****	0	******	******	******	******	2.720	28	*****	1.15	22
PERRY	7012	2	39.4	28	-2.1	68.	11	18.	20	715.5	57.5	.0	.0	3.380	28	2.06	1.21	28
PONCA CITY FAA	7201	2	45.2	28	7.5	77.	12	19.	4	555.5	-208.5	.0	.0	3.610	28	2.39	1.60	28
RED ROCK 1 NNE	7505	2	*****	0	*****	****	0	****	0	******	******	******	******	3.300	28	1.91	1.10	28
RENFROW	7556	2	*****	0	*****	****	0	****	0	******	******	******	******	2.660	28	1.65	1.08	22
WAYNOKA	9404	2	42.5	28	1.9	76.	12	18.	16	630.5	-52.5	.0	.0	2.661	28	1.68	1.14	22
WOODWARD	9760	2	*****	0	*****	****	0	****	0	******	******	******	******	2.194	28	*****	.69	22

FEBRUARY 1990 SUMMARY FOR NORTHEAST DIVISION (CD3)

NAME	ID	CD	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
BARNSDALL	535	3	44.8	28	*****	75.	12	18.	17	566.0	******	.0	******	4.632	28	3.20	1.46	28
BARTLESVILLE 2W	548	3	44.9	28	4.6	78.	12	15.	17	563.5	-128.5	.0	.0	3.572	28	2.12	1.12	28
BIXBY	782	3	44.0	27	3.3	77.	12	20.	16	567.5	-112.5	.0	.0	3.961	27	*****	1.15	14
BURBANK	1256	3	*****	0	*****	****	0	****	0	******	******	******	******	3.792	28	*****	.87	28
CHELSEA 4 S	1717	3	*****	0	*****	****	0	****	0	******	******	******	******	3.360	28	*****	1.11	15
CLAREMORE	1828	3	43.3	28	3.5	76.	13	20.	17	606.5	-99.5	.0	.0	4.553	28	2.93	1.13	22
CLEVELAND 5 WSW	1902	3	46.1	22	*****	77.	12	20.	16	415.5	******	.0	******	4.480	28	*****	1.70	28
FORAKER	3250	3	*****	0	*****	****	0	****	0	******	******	******	******	1.770	28	.55	1.34	28
HOLLOW	4258	3	*****	0	*****	****	0	****	0	******	******	******	******	3.520	28	1.97	1.07	15
HOMINY	4289	3	*****	0	*****	****	0	****	0	******	******	******	******	4.120	28	2.73	1.19	28
HULAH DAM	4393	3	43.6	19	*****	77.	13	14.	20	407.0	******	.0	******	3.472	28	2.30	.97	28
JAY TOWER	4567	3	46.5	26	*****	72.	13	20.	17	482.0	******	.0	******	5.630	26	*****	1.64	15
KANSAS 1 ESE	4672	3	45.6	27	*****	72.	12	19.	17	525.0	******	.0	******	4.021	28	*****	1.50	15
KEYSTONE DAM	4812	3	44.8	28	*****	77.	11	17.	20	567.0	******	.0	******	4.553	28	*****	1.22	28
LENAPAH	5118	3	*****	0	*****	****	0	****	0	******	******	******	******	4.271	28	*****	1.12	15
MANNFORD 6 NW	5522	3	46.4	28	*****	77.	12	18.	16	520.0	******	.0	******	4.471	28	3.00	1.42	28
MARAMEC	5540	3	*****	0	*****	****	0	****	0	******	******	******	******	4.542	28	3.14	1.36	15
MIAMI	5855	3	45.4	28	5.6	75.	9	17.	4	549.5	-156.5	.0	.0	4.080	28	2.20	1.29	15
NOWATA	6485	3	43.7	28	3.7	76.	12	19.	17	596.0	-104.0	.0	.0	3.561	28	1.92	1.10	28
ONETA 1 WNW	6713	3	*****	0	*****	****	0	****	0	******	******	******	******	3.471	28	*****	1.13	22
PAWHUSKA	6935	3	44.0	28	4.0	76.	12	16.	17	588.5	-111.5	.0	.0	5.681	28	4.37	1.85	28
PAWHUSKA	6937	3	*****	0	*****	****	0	****	0	******	******	******	******	4.150	28	*****	1.25	28
PAWNEE	6940	3	*****	0	*****	****	0	****	0	******	******	******	******	3.171	28	1.86	.96	22
PRYOR 6 N	7309	3	42.2	28	2.2	74.	13	16.	18	637.5	-62.5	.0	.0	3.983	28	2.20	1.27	15
RALSTON	7390	3	45.8	28	*****	78.	12	18.	16	539.0	******	.0	******	3.561	28	2.26	1.30	22
RAMONA 4 N	7394	3	*****	0	*****	****	0	****	0	******	******	******	******	4.020	28	*****	1.15	28
SKIATOOK	8258	3	*****	0	*****	****	0	****	0	******	******	******	******	3.410	28	1.78	1.40	22
SPAVINAW	8380	3	46.5	28	*****	71.	12	22.	17	517.5	******	.0	******	4.354	28	2.56	1.54	15
TULSA WSO APT	8992	3	47.7	28	7.0	76.	8	23.	17	484.0	-196.0	.0	.0	3.332	28	1.59	1.01	22
UPPER SPAVINAW	9101	3	42.4	26	*****	75.	12	9.	16	587.0	******	.0	******	4.642	28	*****	1.45	15
VINITA 2 N	9203	3	44.1	28	4.3	74.	13	16.	4	586.5	-119.5	.0	.0	4.060	28	2.25	1.24	15
WAGONER	9247	3	47.5	28	5.3	75.	12	23.	17	491.0	-147.0	.0	.0	4.460	28	2.57	1.28	15
WANN	9298	3	*****	0	*****	****	0	****	0	******	******	******	******	3.350	28	*****	.94	15
WYNONA	9792	3	46.4	28	*****	76.	8	20.	17	521.5	******	.0	******	4.474	28	*****	1.20	28

FEBRUARY 1990 SUMMARY FOR WEST CENTRAL DIVISION (CD4)

NAME	ID	CD	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	43.3	19	*****	75.	13	18.	16	411.5	******	.0	******	3.213	19	*****	.97	22
CHEYENNE	1738	4	*****	0	*****	****	0	****	0	******	******	******	******	2.000	28	*****	1.02	28
CLINTON	1909	4	47.3	28	5.9	78.	12	22.	15	494.5	-166.5	.0	.0	2.850	28	1.81	1.04	28
COLONY	2039	4	*****	0	*****	****	0	****	0	******	******	******	******	3.681	28	*****	.92	22
CORDELL	2125	4	*****	0	*****	****	0	****	0	******	******	******	******	3.183	28	2.15	1.15	28
ELK CITY 1 E	2849	4	44.2	28	*****	77.	12	19.	16	583.5	******	.0	******	2.730	28	1.78	.85	22
ERICK 4 E	2944	4	44.3	16	*****	80.	12	17.	16	331.5	******	.0	******	1.560	28	.70	.66	28
GEARY	3497	4	44.4	27	3.3	76.	12	22.	16	556.0	-113.0	.0	.0	3.100	28	1.98	1.00	28
HAMMON 1 NNE	3871	4	43.4	28	2.5	81.	13	16.	15	605.5	-69.5	.0	.0	2.212	28	1.30	.81	28
LEEDEY	5090	4	*****	0	*****	****	0	****	0	******	******	******	******	3.410	28	2.51	1.27	14
MACKIE 4 NNW	5463	4	*****	0	*****	****	0	****	0	******	******	******	******	1.120	28	*****	.81	19
MORAVIA 2 NNE	6035	4	*****	0	*****	****	0	****	0	******	******	******	******	2.561	28	1.60	.92	28
OKEENE	6629	4	44.1	28	2.5	77.	12	19.	16	585.5	-69.5	.0	.0	3.600	28	2.66	1.30	22
RETROP	7565	4	*****	0	*****	****	0	****	0	******	******	******	******	2.760	28	*****	.87	28
REYDON	7579	4	43.8	28	*****	79.	12	15.	16	594.5	******	.0	******	2.412	28	1.62	.67	28
SAYRE	7952	4	*****	0	*****	****	0	****	0	******	******	******	******	2.090	28	1.37	.68	28
SWEETWATER 2 E	8652	4	*****	0	*****	****	0	****	0	******	******	******	******	2.310	28	*****	.68	27
TALOGA	8708	4	43.0	28	2.9	77.	11	17.	16	615.5	-81.5	.0	.0	2.842	28	1.90	.81	22
THOMAS	8815	4	*****	0	*****	****	0	****	0	******	******	******	******	3.480	28	*****	.85	24
VICI	9172	4	*****	0	*****	****	0	****	0	******	******	******	******	2.191	28	*****	1.09	22
WATONGA	9364	4	43.3	28	*****	76.	12	18.	16	609.0	******	.0	******	4.182	28	3.13	1.04	28
WEATHERFORD	9422	4	43.8	28	2.1	77.	13	20.	16	594.0	-58.0	.0	.0	4.192	28	3.20	1.20	28

FEBRUARY 1990 SUMMARY FOR CENTRAL DIVISION (CD5)

NAME	ID	CD	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	*****	0	*****	****	0	****	0	******	******	******	******	4.130	28	*****	1.57	28
TINKER AFB	325	5	*****	0	*****	****	0	****	0	******	******	******	******	3.803	27	*****	1.20	28
BLANCHARD 2 SSW	830	5	47.3	28	*****	78.	12	21.	16	496.0	******	.0	******	3.991	28	*****	1.63	28
BRISTOW	1144	5	46.5	28	4.1	77.	12	19.	17	517.5	-115.5	.0	.0	3.113	28	1.50	.83	28
CHANDLER	1684	5	46.9	27	4.5	76.	12	21.	16	489.5	-143.5	.0	.0	4.243	27	*****	1.30	28
CHICKASHA EX ST	1750	5	46.1	28	3.0	78.	12	22.	17	528.5	-84.5	.0	.0	4.932	28	3.72	1.88	28
COX CITY 1 E	2196	5	*****	0	*****	****	0	****	0	******	******	******	******	3.250	28	*****	1.10	28
CUSHING	2318	5	44.7	28	4.7	76.	13	21.	17	568.5	-131.5	.0	.0	5.042	28	3.73	1.48	28
EL RENO 1 N	2818	5	45.0	28	3.7	76.	12	21.	16	560.0	-104.0	.0	.0	3.790	28	2.70	1.35	28
GUTHRIE	3821	5	46.8	28	5.5	79.	12	22.	16	510.0	-154.0	.0	.0	4.670	28	3.41	1.50	28
HENNESSEY 2 SE	4055	5	43.4	28	2.8	76.	11	21.	16	606.0	-77.0	.0	.0	3.780	28	2.62	1.34	22
INGALLS	4489	5	*****	0	*****	****	0	****	0	******	******	******	******	4.357	28	*****	1.26	28
KINGFISHER 2 SE	4861	5	44.3	28	3.1	77.	12	19.	16	579.5	-86.5	.0	.0	4.480	28	3.35	1.41	22
KONAWA	4915	5	*****	0	*****	****	0	****	0	******	******	******	******	2.930	28	1.28	.75	22
MARSHALL	5589	5	*****	0	*****	****	0	****	0	******	******	******	******	3.250	28	2.09	1.06	22
MEEKER 4 W	5779	5	46.0	27	4.1	77.	12	20.	17	512.5	-134.5	.0	.0	5.230	28	3.76	1.46	27
MULHALL	6110	5	*****	0	*****	****	0	****	0	******	******	******	******	3.580	28	*****	1.20	28
NORMAN 3 S	6386	5	46.7	28	*****	78.	12	22.	17	512.5	******	.0	******	3.363	28	2.03	1.42	28
OKEMAH	6638	5	47.8	28	4.7	75.	12	22.	17	481.0	-132.0	.0	.0	2.910	28	1.46	.70	15
OKLAHOMA CITY WS	6661	5	47.5	28	6.7	77.	12	25.	16	489.0	-189.0	.0	.0	4.293	28	3.00	1.21	28
PERKINS	7003	5	*****	0	*****	****	0	****	0	******	******	******	******	3.990	28	2.73	1.05	15
PIEDMONT	7068	5	*****	0	*****	****	0	****	0	******	******	******	******	4.130	28	*****	1.27	28
PRAGUE	7264	5	*****	0	*****	****	0	****	0	******	******	******	******	3.450	28	1.95	1.05	22
PURCELL 5 SW	7327	5	47.2	28	5.0	78.	12	21.	16	498.0	-140.0	.0	.0	4.500	28	3.16	1.15	28
SEMINOLE	8042	5	48.9	28	4.4	76.	12	25.	17	451.0	-123.0	.0	.0	4.350	28	2.80	1.26	1
SHAWNEE	8110	5	*****	0	*****	****	0	****	0	******	******	******	******	2.621	28	1.09	.82	22
STELLA	8479	5	*****	0	*****	****	0	****	0	******	******	******	******	4.460	28	*****	1.43	28
STILLWATER 2 W	8501	5	43.7	28	3.2	79.	13	19.	17	596.0	-90.0	.0	.0	3.821	28	2.62	1.12	28
STROUD 1 N	8563	5	*****	0	*****	****	0	****	0	******	******	******	******	3.591	28	*****	1.08	28
TECUMSEH	8751	5	*****	0	*****	****	0	****	0	******	******	******	******	1.950	28	*****	.62	28
TROUSDALE	8960	5	*****	0	*****	****	0	****	0	******	******	******	******	3.360	28	*****	.88	28
WELTY 1 SSE	9479	5	*****	0	*****	****	0	****	0	******	******	******	******	3.540	28	*****	.67	22
WEWOKA	9575	5	*****	0	*****	****	0	****	0	******	******	******	******	3.690	28	2.01	1.76	1

FEBRUARY 1990 SUMMARY FOR EAST CENTRAL DIVISION (CD6)

NAME	ID	CD	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	*****	0	*****	****	0	****	0	******	******	******	******	3.942	28	*****	1.20	1
BEGGS	631	6	*****	0	*****	****	0	****	0	******	******	******	******	3.180	28	*****	.98	22
BOYNTON	1027	6	*****	0	*****	****	0	****	0	******	******	******	******	4.991	28	*****	1.05	22
CALVIN	1391	6	*****	0	*****	****	0	****	0	******	******	******	******	3.230	28	1.33	1.10	1
CHECOTAH	1711	6	*****	0	*****	****	0	****	0	******	******	******	******	4.421	28	2.55	1.14	2
CLAYTON 11 WNW	1858	6	*****	0	*****	****	0	****	0	******	******	******	******	6.480	28	*****	2.02	1
DEWAR 2 NE	2485	6	*****	0	*****	****	0	****	0	******	******	******	******	3.790	28	1.98	.92	22
DUSTIN	2690	6	*****	0	*****	****	0	****	0	******	******	******	******	4.640	28	*****	1.15	22
EUFAULA	2993	6	48.1	28	*****	74.	12	28.	16	472.5	******	.0	******	5.401	28	3.33	1.70	1
HANNA	3884	6	47.9	28	*****	75.	12	22.	17	478.0	******	.0	******	4.532	28	2.67	1.13	22
HARTSHORNE	3946	6	*****	0	*****	****	0	****	0	******	******	******	******	5.341	28	*****	1.37	22
HASKELL	3956	6	*****	0	*****	****	0	****	0	******	******	******	******	3.851	28	1.93	1.04	22
HOLDENVILLE	4235	6	48.0	28	3.9	75.	12	22.	17	475.0	-118.0	.0	-8.0	2.800	28	1.12	.75	22
LAKE EUFAULA	4975	6	47.5	28	*****	79.	13	23.	17	491.5	******	2.0	******	5.412	28	*****	1.70	15
LYONS 2 N	5437	6	*****	0	*****	****	0	****	0	******	******	******	******	6.850	28	4.90	2.51	1
MARBLE CITY	5546	6	*****	0	*****	****	0	****	0	******	******	******	******	6.342	28	*****	1.77	15
MCALESTER FAA	5664	6	50.1	28	7.0	76.	11	25.	17	418.0	-195.0	.0	.0	5.872	28	3.61	1.58	15
MCCURTAIN 1 SE	5693	6	50.2	28	*****	75.	13	23.	17	416.0	******	2.0	******	9.111	28	6.58	2.85	15
MUSKOGEE	6130	6	46.7	27	3.8	74.	12	22.	17	495.0	-124.0	.0	.0	4.820	28	2.71	1.07	14
OKMULGEE W W	6670	6	46.1	19	*****	76.	13	21.	6	360.0	******	.0	******	3.800	28	2.01	1.67	28
OKTAHA 2 NE	6678	6	*****	0	*****	****	0	****	0	******	******	******	******	4.071	28	*****	.96	2
QUINTON	7372	6	*****	0	*****	****	0	****	0	******	******	******	******	6.012	28	3.91	1.79	15
SALLISAW 2 NE	7862	6	48.0	28	4.6	75.	12	20.	19	475.5	-129.5	.5	.5	6.512	28	4.03	2.50	15
SCIPIO	7979	6	*****	0	*****	****	0	****	0	******	******	******	******	6.490	28	*****	2.08	1
SCRAPER	7993	6	*****	0	*****	****	0	****	0	******	******	******	******	5.470	28	*****	1.60	15
SHORT	8170	6	*****	0	*****	****	0	****	0	******	******	******	******	7.460	28	*****	2.50	15
STILWELL 1 NE	8506	6	47.3	28	*****	73.	12	17.	17	495.0	******	.0	******	6.201	28	3.63	1.82	15
TAHLEQUAH	8677	6	46.5	28	4.4	73.	13	20.	17	517.0	-124.0	.0	.0	4.960	28	2.54	1.27	15
WEBBERS FALLS	9445	6	45.8	28	5.0	74.	13	22.	17	537.5	-140.5	.0	.0	5.540	28	3.23	1.63	2
WESTVILLE	9523	6	*****	0	*****	****	0	****	0	******	******	******	******	4.870	28	*****	1.77	2
WETUMKA 3 NE	9571	6	*****	0	*****	****	0	****	0	******	******	******	******	3.342	28	1.74	.91	22

FEBRUARY 1990 SUMMARY FOR SOUTHWEST DIVISION (CD7)

NAME	ID	CD	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	48.2	28	3.8	83.	12	20.	4	471.0	-106.0	.0	.0	2.860	28	1.94	1.40	28
ALTUS DAM	184	7	46.6	28	*****	82.	13	22.	17	517.5	******	3.0	******	3.280	28	2.34	1.58	28
ANADARKO	224	7	44.7	23	*****	78.	12	18.	17	468.0	******	.0	******	2.861	25	*****	.82	21
APACHE	260	7	*****	0	*****	****	0	****	0	******	******	******	******	4.790	28	*****	2.05	28
ALTUS AFB	447	7	*****	0	*****	****	0	****	0	******	******	******	******	1.672	28	*****	.47	28
CARNEGIE 2 ENE	1504	7	46.0	28	3.4	79.	12	21.	4	531.5	-95.5	.0	.0	4.001	28	2.85	1.00	21
CHATTANOOGA	1706	7	48.7	27	4.4	79.	12	21.	14	440.5	-139.5	.0	.0	3.960	27	*****	1.74	28
DUNCAN 12 W	2668	7	*****	0	*****	****	0	****	0	******	******	******	******	3.690	28	*****	1.55	28
FREDERICK	3353	7	48.2	22	*****	79.	13	24.	16	369.5	******	.0	******	3.020	22	*****	1.95	28
GRANDFIELD 4 NW	3709	7	*****	0	*****	****	0	****	0	******	******	******	******	3.820	28	2.64	1.95	28
HOBART FAA APT	4204	7	46.1	28	4.9	78.	12	21.	4	529.0	-137.0	.0	.0	2.931	28	2.02	1.24	28
HOLLIS	4249	7	46.7	28	2.4	82.	12	17.	5	513.0	-67.0	.0	.0	2.951	28	2.18	1.20	27
LAWTON	5063	7	47.0	28	3.3	78.	12	25.	15	503.5	-92.5	.0	.0	4.611	28	3.44	2.85	27
FORT SILL	5068	7	47.5	28	*****	78.	12	27.	16	489.0	******	.0	******	4.633	28	3.46	1.22	28
LOOKEBA 2 ENE	5329	7	*****	0	*****	****	0	****	0	******	******	******	******	4.790	28	*****	1.52	28
MANGUM RES STA	5509	7	48.6	28	4.7	80.	11	22.	16	461.0	-130.0	.5	.5	2.640	28	1.78	1.25	28
RANDLETT 9 E	7403	7	*****	0	*****	****	0	****	0	******	******	******	******	4.181	28	*****	2.16	28
ROOSEVELT	7727	7	*****	0	*****	****	0	****	0	******	******	******	******	3.790	28	2.83	2.00	28
SEDAN	8016	7	*****	0	*****	****	0	****	0	******	******	******	******	3.970	28	*****	2.12	28
VINSON 3 WNW	9212	7	*****	0	*****	****	0	****	0	******	******	******	******	2.670	28	2.01	.82	28
WALTERS	9278	7	49.6	28	4.6	80.	12	23.	16	431.5	-128.5	.0	.0	4.371	28	3.10	1.79	28
WICHITA MT WLR	9629	7	45.5	28	2.7	77.	13	22.	18	546.0	-76.0	.0	.0	4.900	28	3.73	2.25	28
WILLOW	9668	7	*****	0	*****	****	0	****	0	******	******	******	******	2.900	28	*****	1.07	28

FEBRUARY 1990 SUMMARY FOR SOUTH CENTRAL DIVISION (CD8)

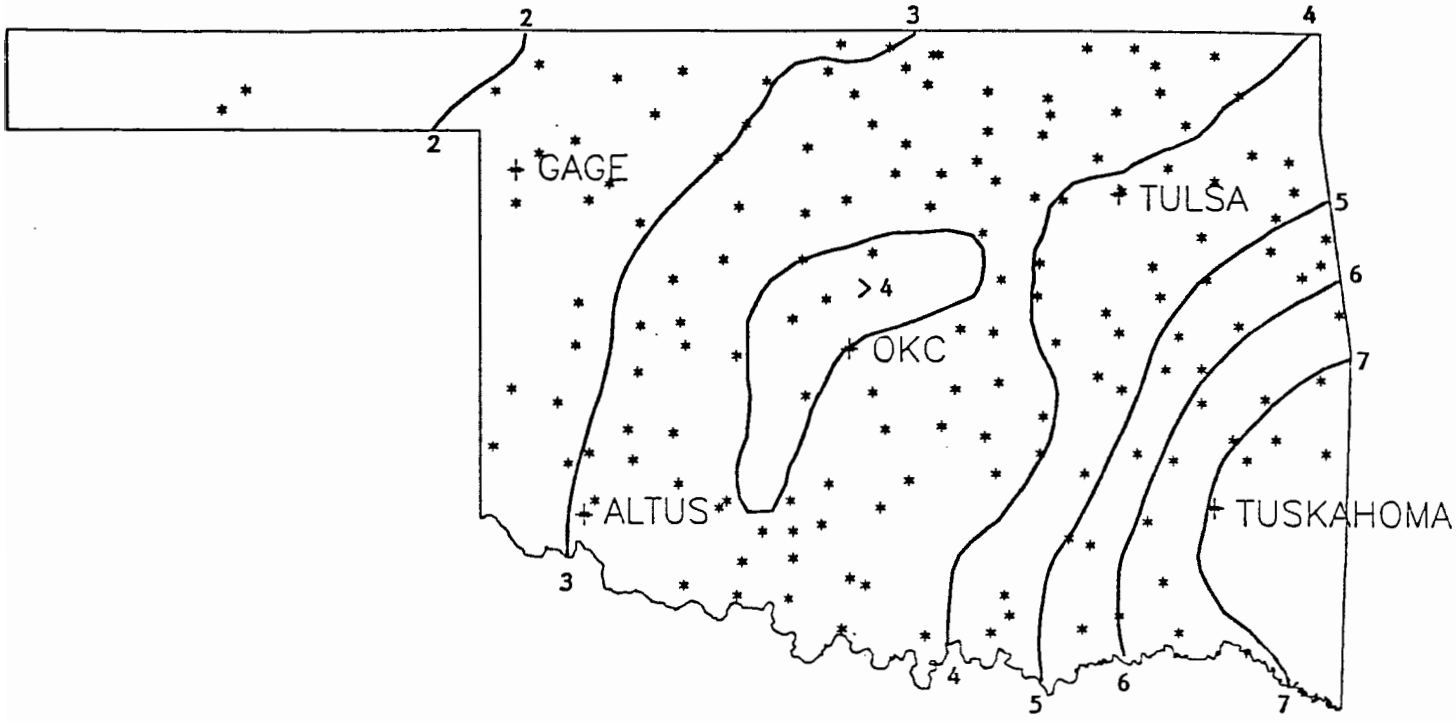
NAME	ID	CD	MEAN TEMP	DEV FROM NORM	NUM OBS	MAX TEMP	MAX DAY	MIN TEMP	MIN DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	MAX DAY
ADA	17	8	48.0	3.3	28	75.	12	24.	17	475.0	-93.0	.0	.0	3.410	28	1.53	.81	22
ALLEN	147	8	*****	*****	0	****	0	****	0	******	******	******	******	3.650	28	*****	1.30	15
ATOKA DAM	394	8	48.2	*****	28	76.	14	23.	17	471.5	******	.0	******	4.620	28	*****	1.73	1
BOKCHITO	917	8	*****	*****	0	****	0	****	0	******	******	******	******	5.400	28	*****	2.50	1
CANEY	1437	8	49.7	*****	28	75.	12	30.	23	427.5	******	.0	******	4.490	28	*****	2.00	1
CENTRAHOMA	1648	8	*****	*****	0	****	0	****	0	******	******	******	******	2.130	28	*****	1.00	15
CHICKASAW NRA	1745	8	47.2	*****	28	75.	14	25.	17	497.5	******	.0	******	4.020	28	*****	1.22	1
COLEMAN	2011	8	*****	*****	0	****	0	****	0	******	******	******	******	3.960	28	*****	1.45	1
COMANCHE	2054	8	*****	*****	0	****	0	****	0	******	******	******	******	3.440	28	*****	1.55	28
DAISY 4 ENE	2354	8	*****	*****	0	****	0	****	0	******	******	******	******	6.763	28	4.07	2.02	1
DUNCAN	2660	8	47.3	2.4	28	79.	13	24.	17	495.5	-74.5	.0	-8.0	4.040	28	2.83	1.57	28
DURANT USDA	2678	8	48.9	*****	28	77.	14	22.	18	451.5	******	1.5	******	4.320	28	2.07	1.72	1
ELMORE CITY	2872	8	*****	*****	0	****	0	****	0	******	******	******	******	4.132	28	*****	1.10	1
FARRIS 3 WNW	3083	8	*****	*****	0	****	0	****	0	******	******	******	******	6.880	28	*****	2.84	1
GRADY	3688	8	*****	*****	0	****	0	****	0	******	******	******	******	4.210	28	*****	1.10	28
HEALDTON	4001	8	49.2	*****	28	78.	13	23.	17	443.0	******	1.0	******	3.950	28	2.60	1.18	1
HENNEPIN	4052	8	*****	*****	0	****	0	****	0	******	******	******	******	2.380	28	*****	1.05	28
KETCHUM RANCH	4780	8	*****	*****	0	****	0	****	0	******	******	******	******	3.900	28	*****	1.81	28
KINGSTON	4865	8	*****	*****	0	****	0	****	0	******	******	******	******	3.691	28	1.43	1.45	1
LEHIGH	5108	8	*****	*****	0	****	0	****	0	******	******	******	******	5.083	28	*****	1.35	15
LINDSAY 2 W	5216	8	48.2	*****	26	78.	12	21.	17	437.0	******	.0	******	2.621	26	*****	1.10	28
LOCO 6 SE	5247	8	*****	*****	0	****	0	****	0	******	******	******	******	3.350	28	*****	1.15	28
MADILL	5468	8	50.4	4.5	28	76.	13	24.	17	408.5	-131.5	1.0	-4.0	4.490	28	2.37	1.33	1
MARIETTA	5563	8	51.2	5.1	28	77.	13	26.	17	389.0	-147.0	1.5	-4.5	3.013	28	1.24	1.00	1
MARLOW 1 WSW	5581	8	49.0	*****	28	79.	12	19.	16	449.0	******	.0	******	3.852	28	2.65	1.56	28
MCGEE CREEK DAM	5713	8	49.9	*****	28	76.	14	24.	17	423.5	******	.0	******	6.990	28	*****	2.65	1
OSWALT	6787	8	*****	*****	0	****	0	****	0	******	******	******	******	3.171	28	*****	1.50	22
PAULS VALLEY	6926	8	48.7	4.2	28	78.	12	20.	15	457.0	-117.0	.0	.0	2.830	28	1.34	.83	28
PONTOTOC	7214	8	*****	*****	0	****	0	****	0	******	******	******	******	6.670	28	4.74	2.27	26
TISHOMINGO NWLR	8884	8	48.8	*****	28	77.	11	22.	17	455.0	******	.0	******	4.290	28	2.24	1.42	1
TUSSY	9032	8	*****	*****	0	****	0	****	0	******	******	******	******	3.300	28	*****	1.05	28
WAURIKA	9395	8	50.0	3.8	28	80.	12	23.	17	421.0	-111.0	.0	-5.0	3.450	28	2.15	.84	22
WAURIKA DAM	9399	8	49.7	*****	20	80.	13	25.	16	305.5	******	.0	******	3.723	21	*****	1.57	28

FEBRUARY 1990 SUMMARY FOR SOUTHEAST DIVISION (CD9)

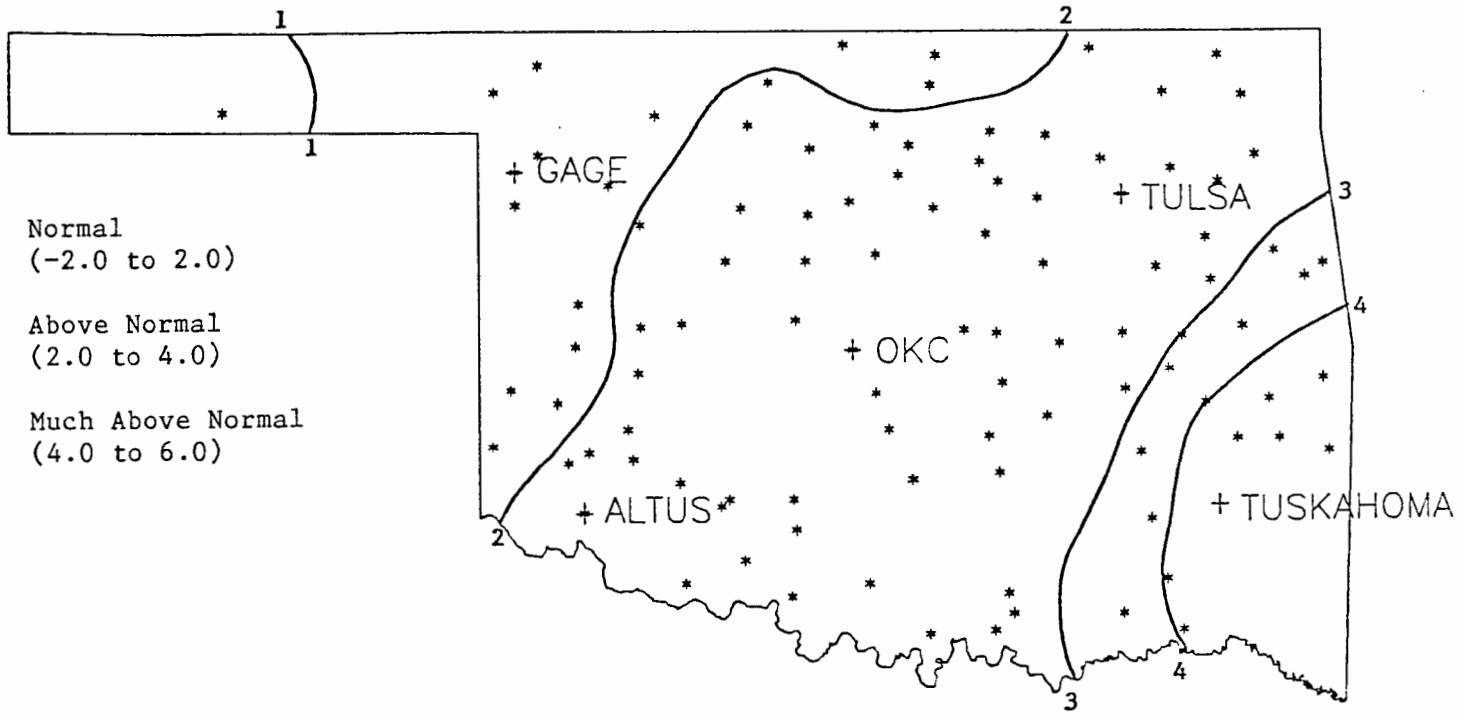
NAME	ID	CD	MEAN TEMP	DEV FROM NORM	NUM OBS	MAX TEMP	MAX DAY	MIN TEMP	MIN DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	MAX DAY
ANTLERS	256	9	50.7	5.8	28	76.	13	22.	18	401.5	-161.5	.5	.5	6.850	28	4.10	2.36	1
BATTIEST 1 SSW	567	9	50.2	*****	28	75.	11	20.	17	414.0	******	.0	******	6.910	28	*****	2.45	2
BEAR MT TWR	584	9	52.1	*****	28	78.	11	23.	17	360.5	******	.0	******	6.280	27	*****	2.08	1
BENGAL	670	9	*****	*****	0	****	0	****	0	******	******	******	******	7.870	28	*****	2.51	15
BOSWELL 4 NNW	980	9	52.2	*****	28	76.	11	27.	17	359.0	******	1.0	******	8.030	28	5.25	2.76	15
BROKEN BOW 1 N	1162	9	*****	*****	0	****	0	****	0	******	******	******	******	4.691	28	1.40	1.70	1
BROKEN BOW DAM	1168	9	49.8	*****	28	77.	13	23.	16	425.0	******	.0	******	3.660	28	*****	1.50	1
CARNASAW TWR	1499	9	*****	*****	0	****	0	****	0	******	******	******	******	4.810	28	1.48	1.82	1
FANSHAWE	3065	9	*****	*****	0	****	0	****	0	******	******	******	******	8.030	28	5.24	2.65	15
FLAGPOLE TWR	3169	9	*****	*****	0	****	0	****	0	******	******	******	******	6.860	28	*****	3.22	15
HEAVENER 1 SE	4008	9	*****	*****	0	****	0	****	0	******	******	******	******	7.330	28	4.61	1.76	2
HEE MT TWR	4017	9	*****	*****	0	****	0	****	0	******	******	******	******	4.380	28	*****	1.41	2
HUGO	4384	9	51.9	5.0	28	76.	11	26.	17	365.5	-147.5	.0	-6.0	6.451	28	3.68	2.80	2
IDABEL	4451	9	50.3	4.0	28	76.	14	25.	5	414.0	-110.0	1.0	1.0	4.680	28	1.26	1.30	1
POTEAU W W	7254	9	47.7	*****	27	76.	13	22.	16	468.0	******	.0	******	6.010	27	*****	1.64	14
SMITHVILLE 1 W	8285	9	47.7	*****	28	74.	13	16.	17	485.0	******	.0	******	3.950	28	*****	1.50	1
SOBAL TOWER	8305	9	*****	*****	0	****	0	****	0	******	******	******	******	4.330	28	1.48	2.32	1
SPIRO	8416	9	*****	*****	0	****	0	****	0	******	******	******	******	6.990	28	4.29	2.03	15
TUSKAHOMA	9023	9	50.1	*****	28	76.	13	20.	17	417.5	******	.5	******	8.910	28	*****	2.86	15
VALLIANT 3 W	9118	9	*****	*****	0	****	0	****	0	******	******	******	******	6.130	28	2.86	2.36	22
WILBURTON 9 ENE	9634	9	49.1	5.1	28	76.	11	23.	17	445.0	-143.0	.0	.0	7.852	28	5.23	2.70	14

FEBRUARY 1990 CLIMATE DIVISION SUMMARY

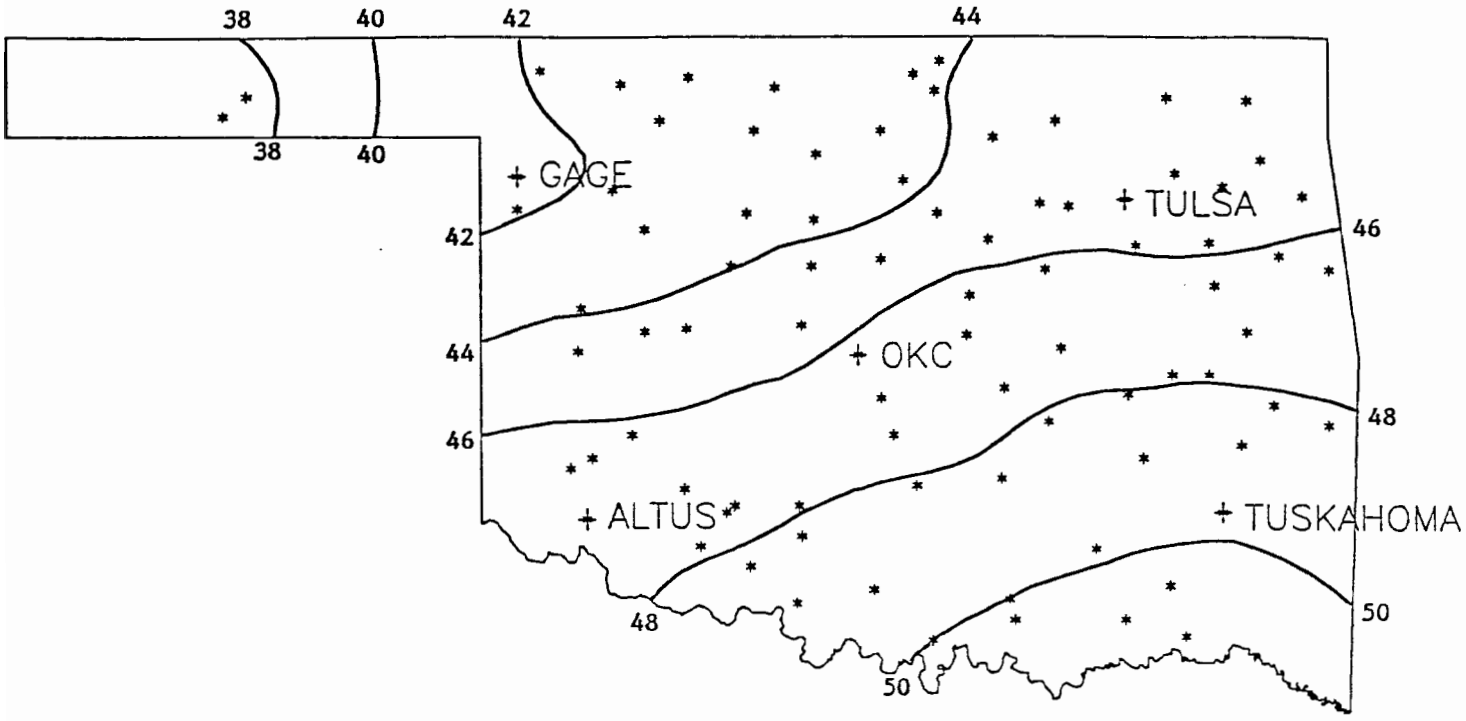
CLIMATE DIV	MEAN TEMP	NUM STA	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEGREE DAYS	DEV FROM NORM	COOL DEGREE DAYS	DEV FROM NORM	TOT PPT	NUM STA	DEV FROM NORM	MAX 24-HR	DAY
1	38.2	12	-.4	83.0	12	-1.0	16	748.6	9.7	.0	.0	1.77	15	1.17	1.88	21
2	42.3	15	2.5	79.0	12	14.0	17	635.5	-70.9	.0	.0	2.84	24	1.77	1.60	28
3	45.1	17	5.0	78.0	12	9.0	16	554.5	-143.2	.0	.0	3.97	32	2.42	1.85	28
4	44.1	9	2.9	81.0	13	15.0	16	582.0	-84.0	.0	.0	2.78	21	1.84	1.30	22
5	46.2	16	4.4	79.0	13	19.0	17	524.7	-124.7	.0	.0	3.82	31	2.46	1.88	28
6	47.8	11	5.1	79.0	13	17.0	17	479.2	-144.4	.4	-.7	5.15	31	3.08	2.85	15
7	47.3	11	3.6	83.0	12	17.0	5	494.0	-103.4	.3	-.6	3.67	20	2.64	2.85	27
8	49.0	14	3.6	80.0	13	19.0	16	447.5	-105.9	.4	-3.6	4.19	31	2.41	2.84	1
9	50.2	11	4.6	78.0	11	16.0	17	414.1	-132.9	.3	-1.2	6.25	19	3.27	3.22	15



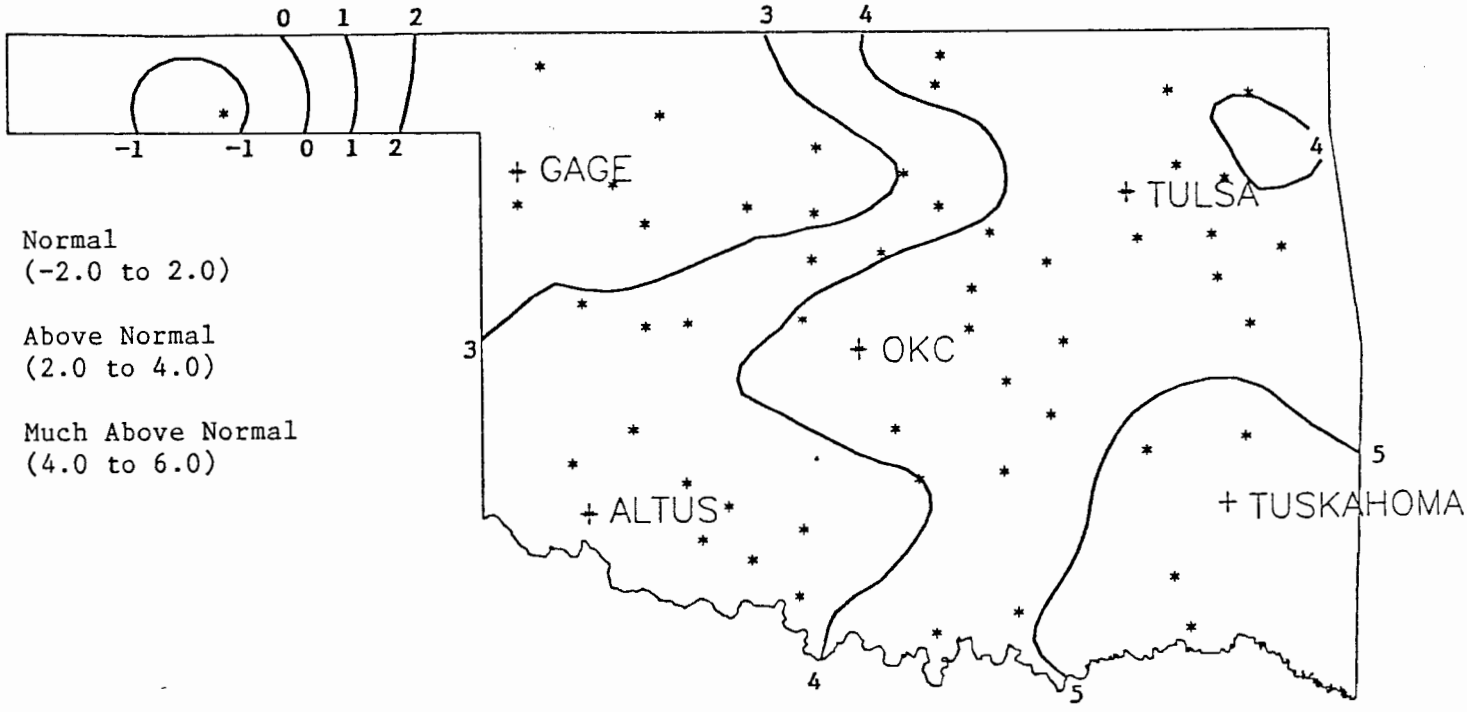
FEBRUARY 1990 TOTAL PRECIPITATION
(Inches)



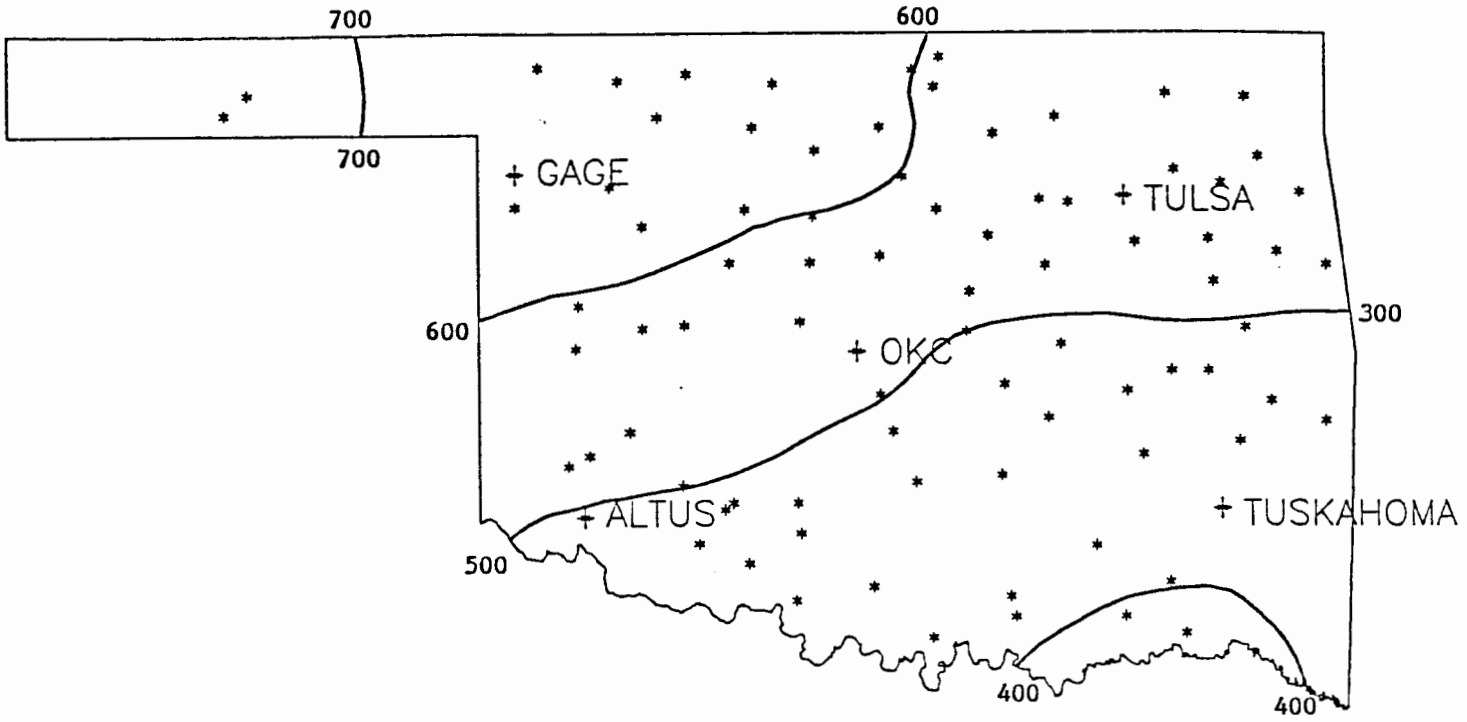
FEBRUARY 1990 DEVIATION FROM NORMAL PRECIPITATION
(Inches)



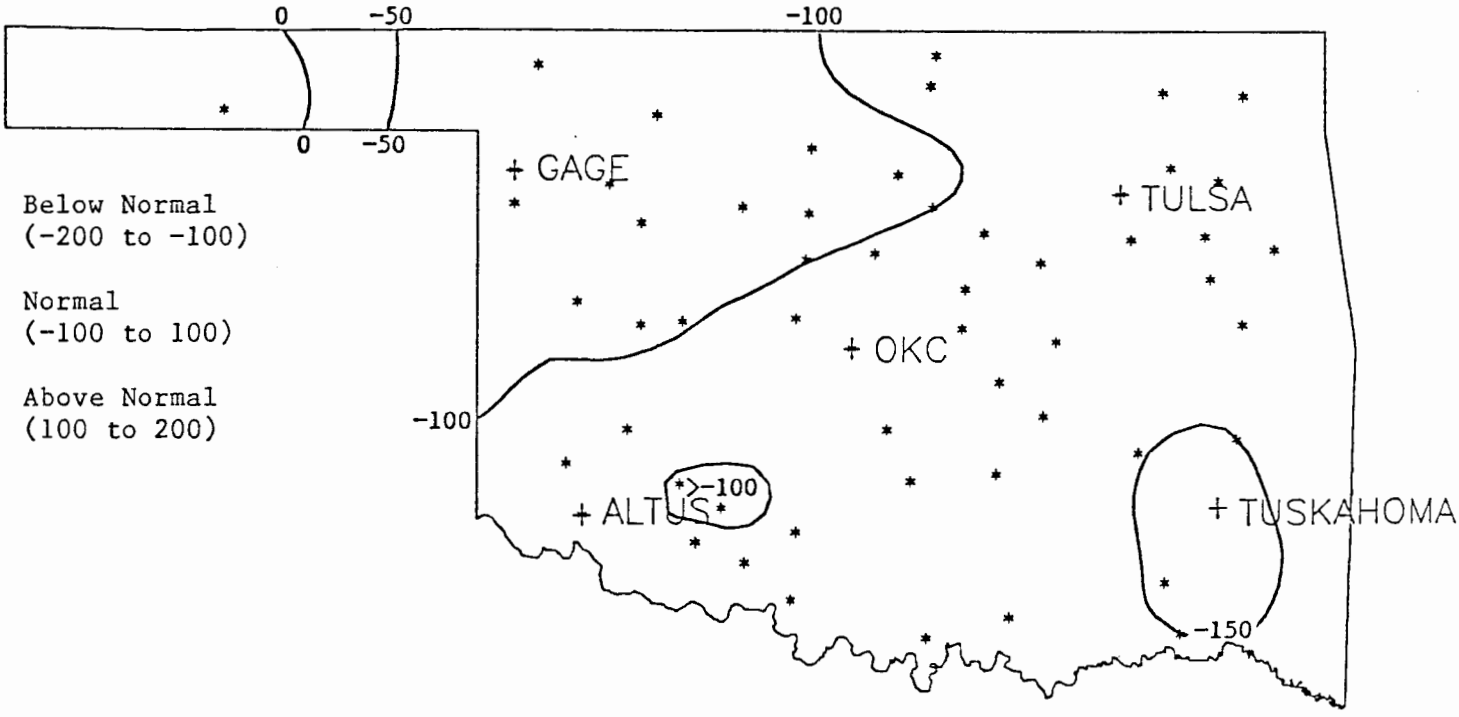
FEBRUARY 1990 AVERAGE MONTHLY TEMPERATURES
(Degrees F)



FEBRUARY 1990 DEVIATION FROM NORMAL TEMPERATURES
(Degrees F)

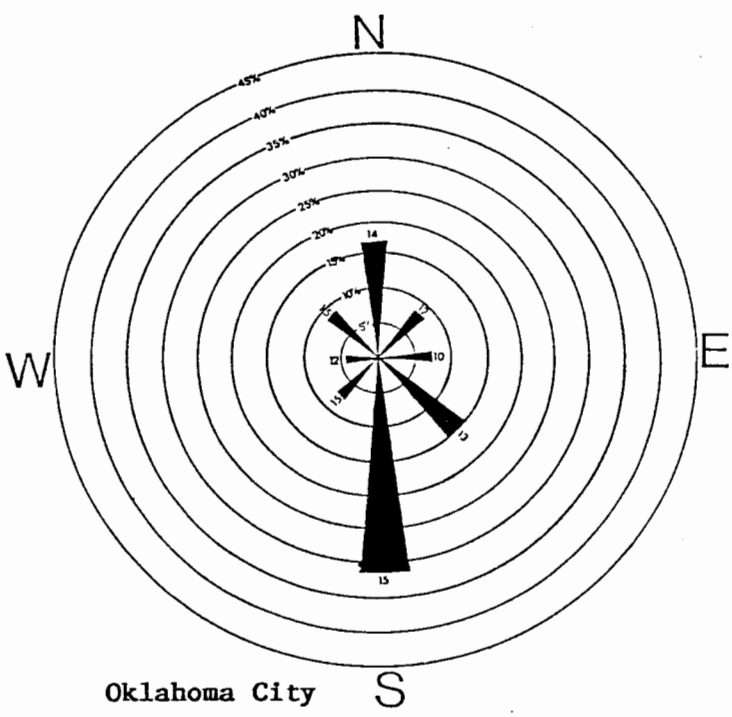


FEBRUARY 1990 HEATING DEGREE DAYS

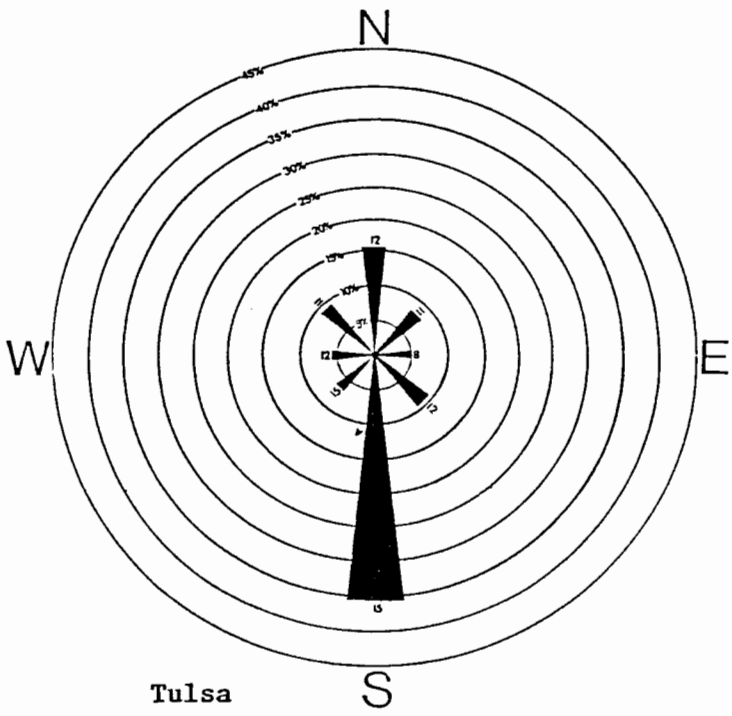


FEBRUARY 1990 DEVIATION FROM NORMAL HEATING DEGREE DAYS

April wind roses for Oklahoma City and Tulsa for 10-year (1965-1974) mean winds (data adapted from NOAA Airport Climatology Series). Percents represent the percentages for winds coming from a direction. The numbers at the end of the bars indicate the average speed (miles per hour) of winds from that direction.



Oklahoma City



Tulsa

APRIL 1990 SUNRISE AND SUNSET *

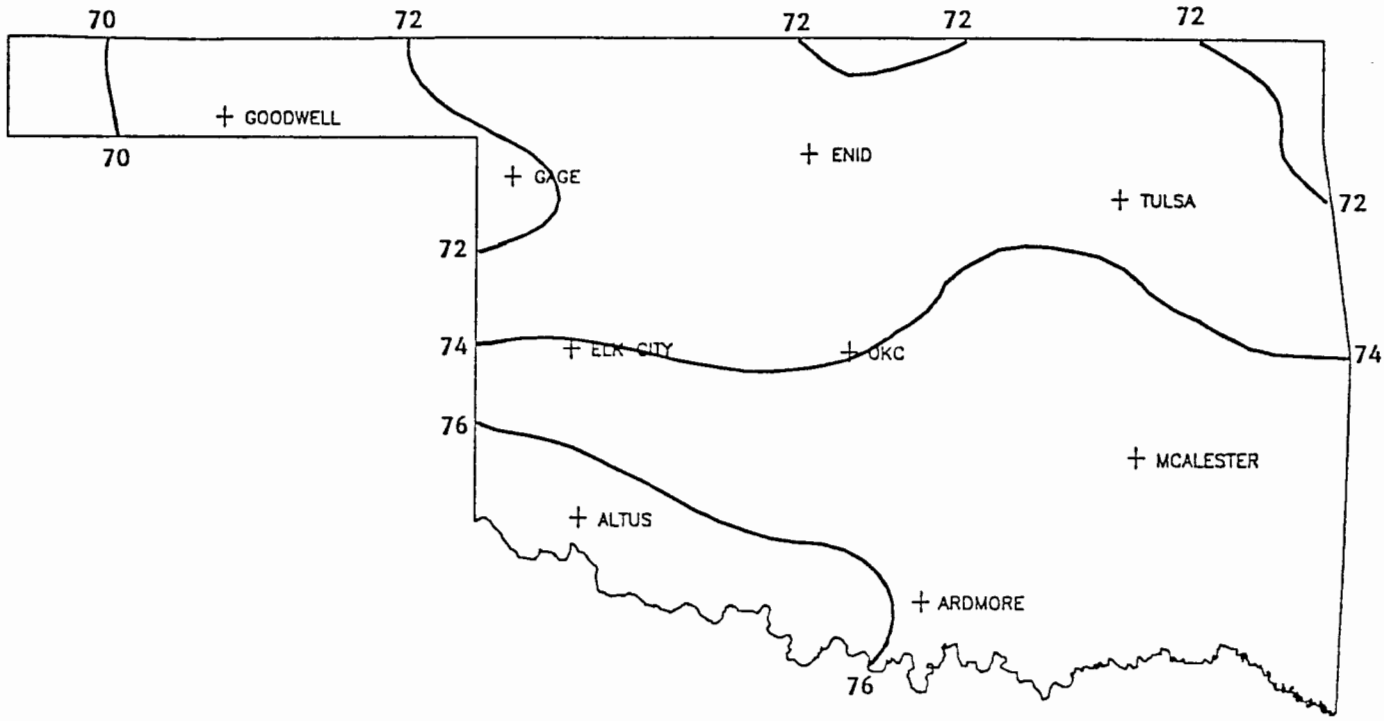
Oklahoma City

DATE	SUNRISE	SUNSET	DAYLIGHT
900401	7:19AM	7:51PM LT	12:32
900402	7:17AM	7:51PM LT	12:34
900403	7:16AM	7:52PM LT	12:36
900404	7:14AM	7:53PM LT	12:39
900405	7:13AM	7:54PM LT	12:41
900406	7:12AM	7:55PM LT	12:43
900407	7:10AM	7:55PM LT	12:45
900408	7: 9AM	7:56PM LT	12:47
900409	7: 7AM	7:57PM LT	12:50
900410	7: 6AM	7:58PM LT	12:52
900411	7: 5AM	7:58PM LT	12:54
900412	7: 3AM	7:59PM LT	12:56
900413	7: 2AM	8: 0PM LT	12:58
900414	7: 1AM	8: 1PM LT	13: 0
900415	6:59AM	8: 2PM LT	13: 2
900416	6:58AM	8: 2PM LT	13: 4
900417	6:57AM	8: 3PM LT	13: 7
900418	6:55AM	8: 4PM LT	13: 9
900419	6:54AM	8: 5PM LT	13:11
900420	6:53AM	8: 6PM LT	13:13
900421	6:52AM	8: 6PM LT	13:15
900422	6:50AM	8: 7PM LT	13:17
900423	6:49AM	8: 8PM LT	13:19
900424	6:48AM	8: 9PM LT	13:21
900425	6:47AM	8:10PM LT	13:23
900426	6:46AM	8:10PM LT	13:25
900427	6:45AM	8:11PM LT	13:27
900428	6:44AM	8:12PM LT	13:28
900429	6:42AM	8:13PM LT	13:30
900430	6:41AM	8:14PM LT	13:32

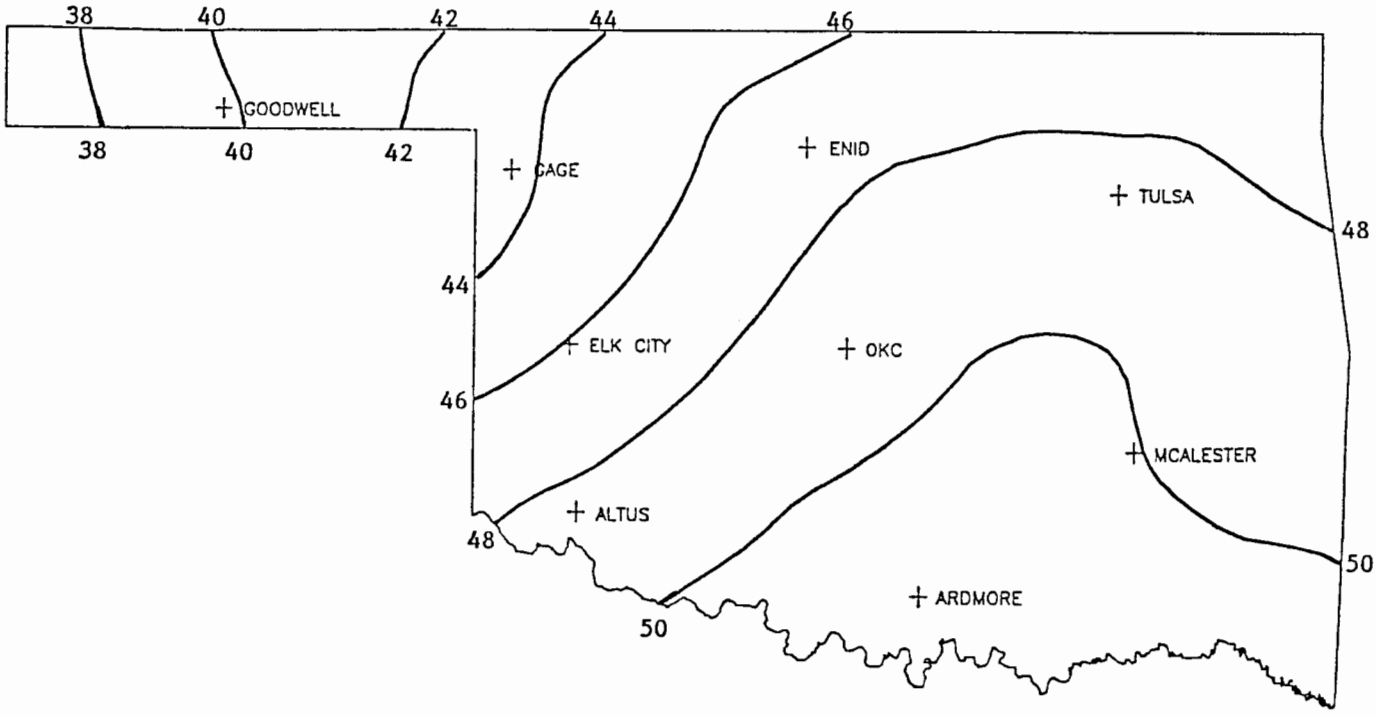
Tulsa

DATE	SUNRISE	SUNSET	DAYLIGHT
900401	7:11AM	7:44PM LT	12:33
900402	7:10AM	7:45PM LT	12:35
900403	7: 8AM	7:46PM LT	12:37
900404	7: 7AM	7:47PM LT	12:40
900405	7: 6AM	7:47PM LT	12:42
900406	7: 4AM	7:48PM LT	12:44
900407	7: 3AM	7:49PM LT	12:46
900408	7: 1AM	7:50PM LT	12:49
900409	7: 0AM	7:51PM LT	12:51
900410	6:59AM	7:52PM LT	12:53
900411	6:57AM	7:52PM LT	12:55
900412	6:56AM	7:53PM LT	12:57
900413	6:54AM	7:54PM LT	12:60
900414	6:53AM	7:55PM LT	13: 2
900415	6:52AM	7:56PM LT	13: 4
900416	6:50AM	7:57PM LT	13: 6
900417	6:49AM	7:57PM LT	13: 8
900418	6:48AM	7:58PM LT	13:10
900419	6:46AM	7:59PM LT	13:13
900420	6:45AM	8: 0PM LT	13:15
900421	6:44AM	8: 1PM LT	13:17
900422	6:43AM	8: 1PM LT	13:19
900423	6:41AM	8: 2PM LT	13:21
900424	6:40AM	8: 3PM LT	13:23
900425	6:39AM	8: 4PM LT	13:25
900426	6:38AM	8: 5PM LT	13:27
900427	6:37AM	8: 6PM LT	13:29
900428	6:35AM	8: 6PM LT	13:31
900429	6:34AM	8: 7PM LT	13:33
900430	6:33AM	8: 8PM LT	13:35

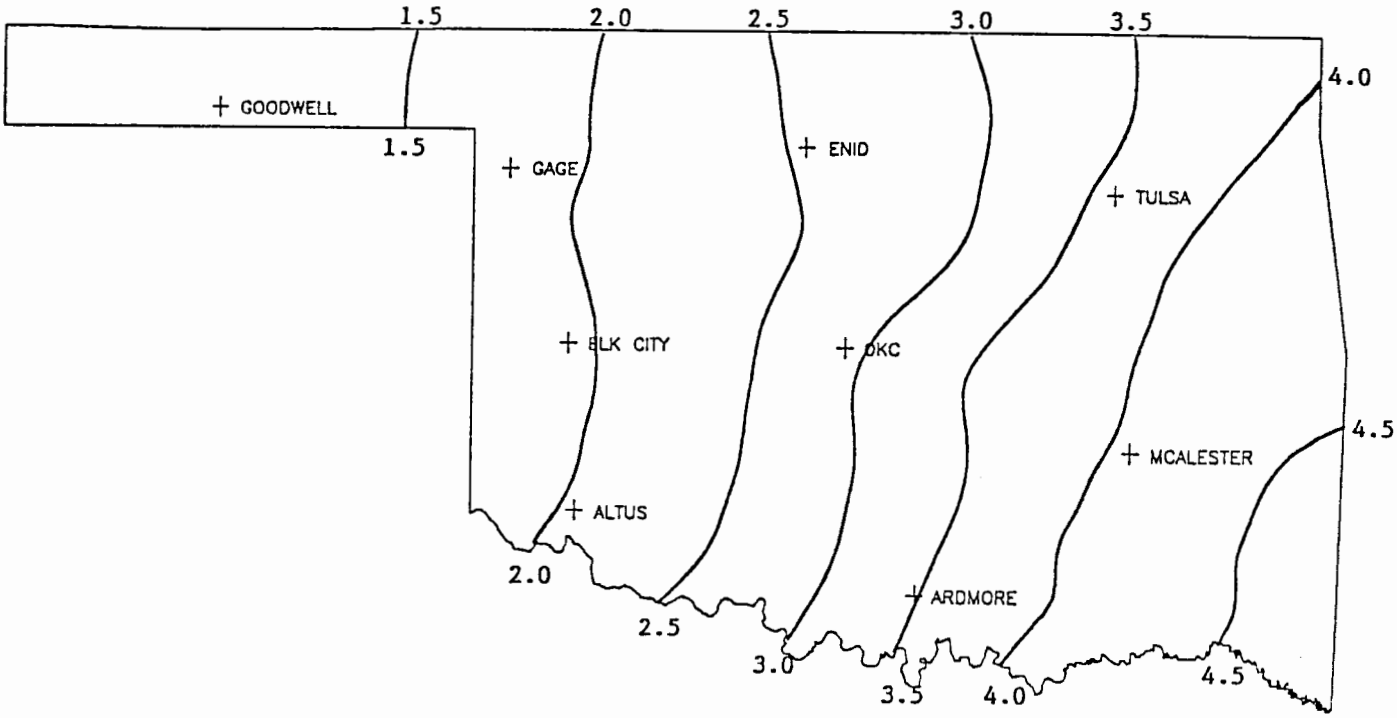
* Daylight Savings Time



30-YEAR MEAN APRIL DAILY MAXIMUM TEMPERATURE



30-YEAR MEAN APRIL DAILY MINIMUM TEMPERATURE



30-YEAR MEAN APRIL PRECIPITATION

30- and 90-DAY NATIONAL WEATHER SERVICE OUTLOOK

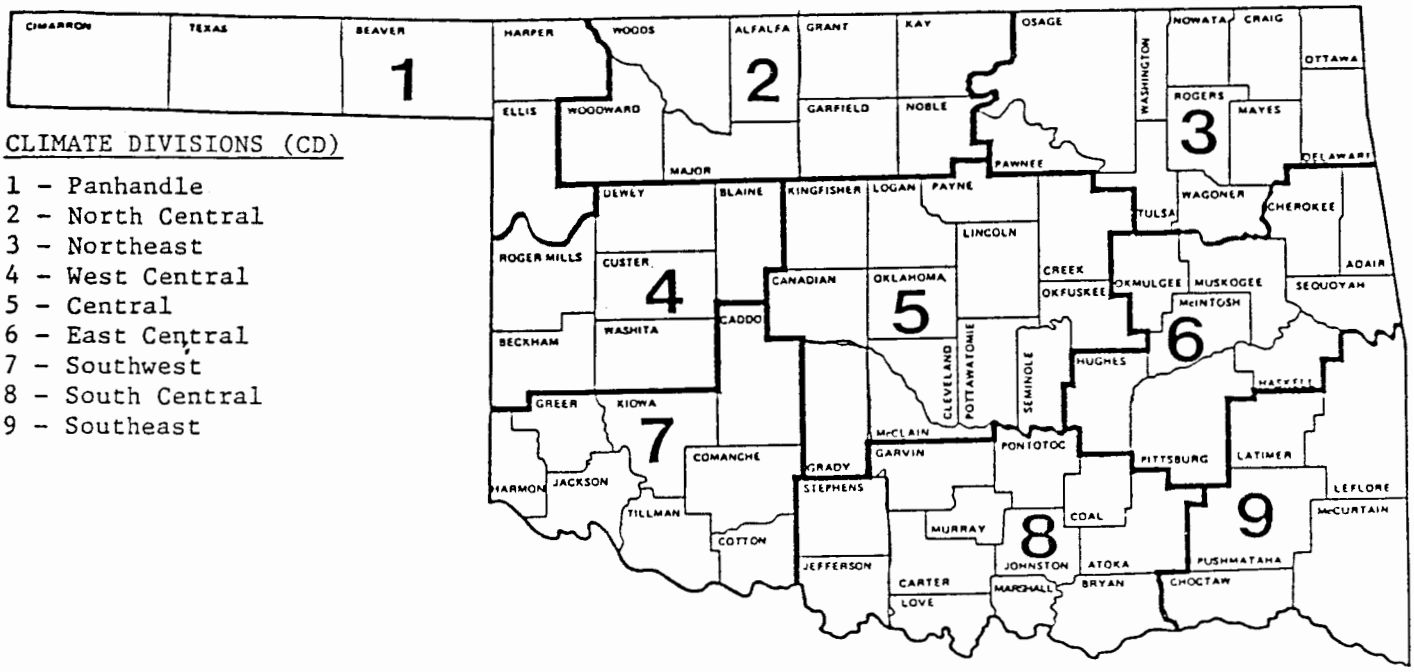
30-DAY OUTLOOK (MARCH)

Precipitation - Near Normal Statewide
Temperature - Above Normal Statewide

90-DAY OUTLOOK (MARCH-MAY)

Precipitation - Near Normal Statewide
Temperature - Near Normal Statewide

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.

APRIL 1990

CLIMATE CALENDAR

The data on this calendar are for Oklahoma City. Normal values are calculated for the period 1948-1987. Extremes are found for the period of record (1924-present).

Normal	1	Actual
67.3	max	
44.1	min	
.020	pcpn	
10	HDD	
1	CDD	
Highest Max		92-1946
Lowest Max		45-1938
Lowest Min		28-1972
Highest Min		68-1946
Greatest pcpn		.84-1988

Normal	2	Actual
69.7	max	
45.3	min	
.079	pcpn	
8	HDD	
1	CDD	
Highest Max		87-1946
Lowest Max		43-1949
Lowest Min		20-1936
Highest Min		67-1940
Greatest pcpn		.94-1956

Normal	3	Actual
67.9	max	
44.1	min	
.096	pcpn	
9	HDD	
1	CDD	
Highest Max		89-1950
Lowest Max		43-1944
Lowest Min		21-1975
Highest Min		66-1934
Greatest pcpn		1.29-1986

Normal	4	Actual
65.5	max	
42.2	min	
.023	pcpn	
12	HDD	
1	CDD	
Highest Max		89-1942
Lowest Max		43-1970
Lowest Min		29-1945
Highest Min		68-1929
Greatest pcpn		1.31-1947

Normal	5	Actual
66.7	max	
42.0	min	
.147	pcpn	
11	HDD	
1	CDD	
Highest Max		87-1959
Lowest Max		47-1983
Lowest Min		26-1970
Highest Min		65-1978
Greatest pcpn		3.39-1953

Normal	6	Actual
71.8	max	
44.7	min	
.009	pcpn	
8	HDD	
2	CDD	
Highest Max		94-1954
Lowest Max		44-1940
Lowest Min		26-1936
Highest Min		68-1932
Greatest pcpn		1.24-1940

Normal	7	Actual
70.3	max	
46.6	min	
.050	pcpn	
7	HDD	
1	CDD	
Highest Max		87-1946
Lowest Max		38-1938
Lowest Min		27-1938
Highest Min		65-1946
Greatest pcpn		1.76-1942

Normal	8	Actual
68.3	max	
47.2	min	
.099	pcpn	
8	HDD	
1	CDD	
Highest Max		84-1977
Lowest Max		44-1942
Lowest Min		28-1938
Highest Min		62-1978
Greatest pcpn		1.30-1947

Normal	9	Actual
68.7	max	
45.0	min	
.054	pcpn	
9	HDD	
1	CDD	
Highest Max		90-1930
Lowest Max		44-1973
Lowest Min		28-1938
Highest Min		66-1927
Greatest pcpn		2.91-1944

Normal	10	Actual
68.9	max	
46.2	min	
.089	pcpn	
8	HDD	
1	CDD	
Highest Max		91-1934
Lowest Max		45-1958
Lowest Min		28-1973
Highest Min		66-1965
Greatest pcpn		1.40-1979

Normal	11	Actual
70.5	max	
47.2	min	
.043	pcpn	
7	HDD	
1	CDD	
Highest Max		90-1972
Lowest Max		47-1926
Lowest Min		29-1940
Highest Min		66-1972
Greatest pcpn		1.10-1974

Normal	12	Actual
69.5	max	
47.4	min	
.098	pcpn	
8	HDD	
2	CDD	
Highest Max		100-1972
Lowest Max		35-1957
Lowest Min		23-1957
Highest Min		70-1972
Greatest pcpn		3.11-1967

Normal	13	Actual
68.8	max	
45.9	min	
.093	pcpn	
9	HDD	
1	CDD	
Highest Max		94-1936
Lowest Max		43-1957
Lowest Min		20-1957
Highest Min		67-1981
Greatest pcpn		1.29-1947

Normal	14	Actual
70.7	max	
46.1	min	
.080	pcpn	
8	HDD	
1	CDD	
Highest Max		92-1936
Lowest Max		46-1928
Lowest Min		28-1957
Highest Min		68-1972
Greatest pcpn		2.06-1945

Normal	15	Actual
71.9	max	
47.7	min	
.055	pcpn	
6	HDD	
1	CDD	
Highest Max		90-1940
Lowest Max		54-1961
Lowest Min		20-1928
Highest Min		66-1982
Greatest pcpn		1.67-1947

Normal	16	Actual
73.5	max	
49.3	min	
.089	pcpn	
5	HDD	
2	CDD	
Highest Max		92-1940
Lowest Max		54-1950
Lowest Min		34-1953
Highest Min		66-1937
Greatest pcpn		1.08-1970

Normal	17	Actual
75.0	max	
51.2	min	
.050	pcpn	
4	HDD	
2	CDD	
Highest Max		92-1987
Lowest Max		52-1939
Lowest Min		30-1953
Highest Min		67-1963
Greatest pcpn		2.16-1941

Normal	18	Actual
74.0	max	
52.2	min	
.090	pcpn	
4	HDD	
2	CDD	
Highest Max		94-1987
Lowest Max		48-1953
Lowest Min		30-1953
Highest Min		66-1964
Greatest pcpn		2.97-1942

Normal	19	Actual
74.0	max	
52.4	min	
.165	pcpn	
4	HDD	
2	CDD	
Highest Max		94-1987
Lowest Max		54-1983
Lowest Min		33-1953
Highest Min		68-1948
Greatest pcpn		1.48-1929

Normal	20	Actual
72.7	max	
51.7	min	
.157	pcpn	
5	HDD	
2	CDD	
Highest Max		91-1961
Lowest Max		50-1959
Lowest Min		33-1966
Highest Min		69-1985
Greatest pcpn		2.07-1937

Normal	21	Actual
74.0	max	
51.4	min	
.030	pcpn	
4	HDD	
2	CDD	
Highest Max		90-1965
Lowest Max		45-1959
Lowest Min		34-1927
Highest Min		70-1961
Greatest pcpn		.78-1938

Normal	22	Actual
74.9	max	
52.1	min	
.147	pcpn	
4	HDD	
2	CDD	
Highest Max		95-1955
Lowest Max		55-1928
Lowest Min		34-1959
Highest Min		69-1961
Greatest pcpn		1.41-1985

Normal	23	Actual
74.7	max	
52.5	min	
.079	pcpn	
4	HDD	
3	CDD	
Highest Max		89-1989
Lowest Max		52-1931
Lowest Min		40-1959
Highest Min		68-1961
Greatest pcpn		.96-1945

Normal	24	Actual
75.5	max	
51.5	min	
.075	pcpn	
3	HDD	
2	CDD	
Highest Max		88-1989
Lowest Max		52-1947
Lowest Min		38-1968
Highest Min		66-1961
Greatest pcpn		1.67-1948

Normal	25	Actual
73.8	max	
52.1	min	
.086	pcpn	
4	HDD	
2	CDD	
Highest Max		91-1939
Lowest Max		54-1947
Lowest Min		40-1977
Highest Min		65-1949
Greatest pcpn		1.09-1966

Normal	26	Actual
74.0	max	
52.6	min	
.089	pcpn	
4	HDD	
2	CDD	
Highest Max		90-1989
Lowest Max		56-1965
Lowest Min		40-1945
Highest Min		68-1975
Greatest pcpn		1.50-1963

Normal	27	Actual
75.0	max	
53.1	min	
.115	pcpn	
3	HDD	
3	CDD	
Highest Max		91-1959
Lowest Max		57-1979
Lowest Min		39-1988
Highest Min		69-1970
Greatest pcpn		1.20-1986

Normal	28	Actual
72.9	max	
52.3	min	
.116	pcpn	
4	HDD	
2	CDD	
Highest Max		87-1951
Lowest Max		57-1966
Lowest Min		37-1979
Highest Min		70-1970
Greatest pcpn		1.97-1960

Normal	29	Actual
75.3	max	
52.7	min	
.236	pcpn	
3	HDD	
2	CDD	
Highest Max		92-1936
Lowest Max		58-1971
Lowest Min		39-1956
Highest Min		68-1933
Greatest pcpn		2.87-1974

Normal	30	Actual
74.5	max	
53.5	min	
.200	pcpn	
3	HDD	
3	CDD	
Highest Max		93-1948
Lowest Max		56-1960
Lowest Min		38-1984
Highest Min		68-1936
Greatest pcpn		2.13-1970

APRIL AVERAGES

Temperature	:	60.2
Precipitation	:	2.76"
Heating Degree Days:		186
Cooling Degree Days:		50