OKLAHOMA
MONTHLY SUMMARY
DECEMBER 1990

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DECEMBER 1990 OKLAHOMA SUMMARY

The year 1990 ended much as it began, with Oklahoma caught in the midst of a brutal cold snap. The extreme cold late in the month offset a warm beginning, leaving December 1990 as the 15th coolest on record. Preliminary data show an average temperature for December of 36.6 degrees, which was 4.1 degrees below normal. The year was knocked down another notch, from the 19th to the 20th warmest since records began in 1892. Nearly continuous precipitation in the latter half of December brought the state-averaged precipitation total to 1.91 inches. This was 0.4 inch above normal, which was enough to raise the year to the 7th wettest on record. The annual total of 43.50 inches was an incredible 11.04 inches above normal.

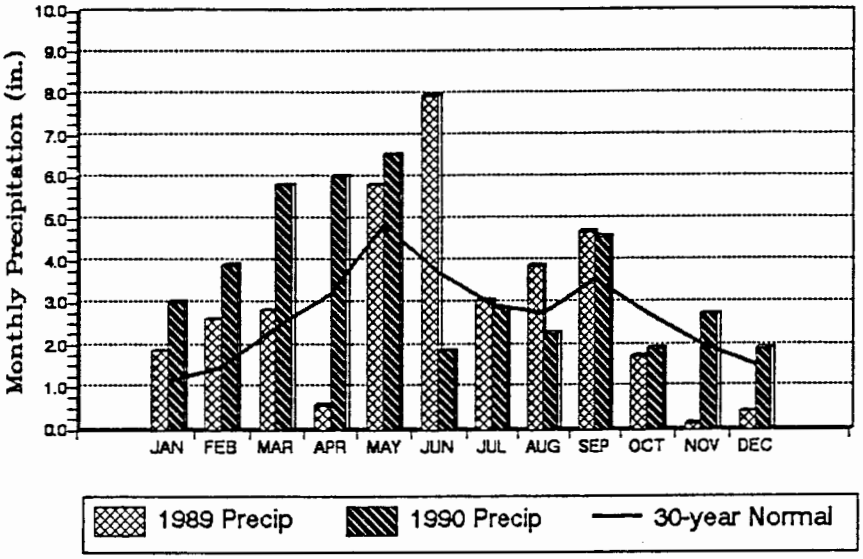
The warmth of late November carried over into the first two weeks of December. Maximum temperatures climbed into the 60's and 70's across much of Oklahoma, with 50's prevailing in northwestern portions. The first of three strong cold fronts passed through the state on the 13th. Maximum temperatures dropped to the 40's, except for the southeast which remained in the 60's. The front also marked a change from the dry conditions of late November and early December. Precipitation was recorded somewhere in the state on every day, except for Christmas Day, from December 12-31. A weak cold front passed through Oklahoma on the 17th. Although temperatures were largely unaffected by the frontal passage, heavy rainfall was recorded at numerous locations. Sub-freezing nighttime temperatures caused water on roadways and bridges to freeze, contributing to several automobile accidents.

December 21 marked the winter solstice - the official start of winter, but winter weather arrived a day early. A powerful cold front ripped through the state on the 20th, dropping maximum temperatures to the single digits and plunging minimum temperatures below zero. Strong winds associated with the front pushed wind-chill indices below -30 degrees across northern Oklahoma. The deep freeze lasted until Christmas Day, with many areas experiencing sub-zero minimum temperatures from Dec 21-25. Readings as low as -8 degrees were recorded at Goodwell on the 22nd and Waynoka on the 24th. Goodwell recorded four consecutive days below zero, from December 21-24. Maximum temperatures did not fare much better. Stillwater struggled to a maximum temperature of 0 degrees on the 23rd. The warmest reading in Oklahoma for the day was 24 degrees recorded at Clinton. Light snow and freezing rain accompanied the front. The cold air and slick roads combined to make travel virtually impossible over most of the state.

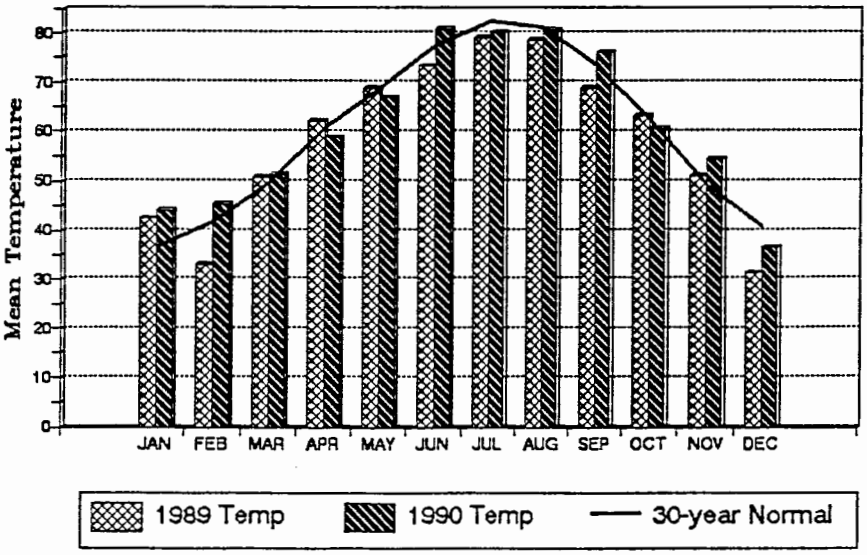
Temperatures moderated briefly after Christmas, as maximum temperatures climbed back into the 30's and 40's. However, minimum temperatures remained in the single digits or teens across most of the state. The higher temperatures did little to alleviate the icy conditions, as any daytime melting quickly re-froze in the evenings. Another front pushed into the state on the 29th, bringing with it rainfall totals in excess of one inch, including the month's heaviest rainfall of 2.74 inches at Tahlequah on the 30th. Much of the rain fell on frozen ground, coating roads, bridges, walkways and yards with a layer of ice. Traffic once again became snarled, and numerous accidents were reported. Behind the front temperatures again fell below zero, including -8 degrees recorded at Enid on the 30th and Goodwell on the 31st.

-Mark A. Shafer

Comparison of Monthly Precipitation
Statewide Average for Oklahoma



Comparison of Monthly Temperature
Statewide Average for Oklahoma



December 1990 percent of normal precipitation.

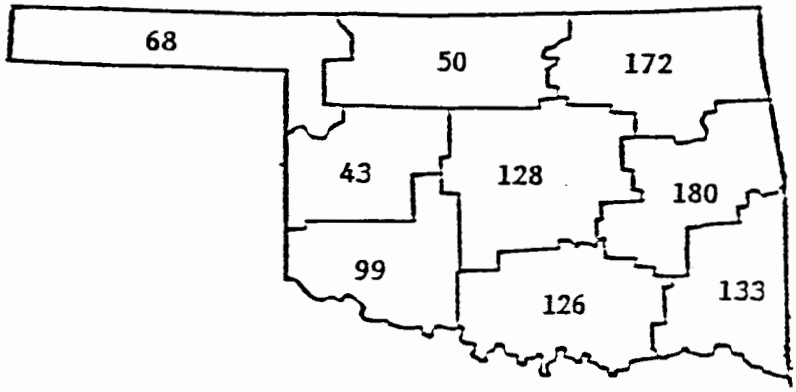


TABLE OF 1989/1990 COMPARISONS

STATION	December Temperatures (F) 1989	1990	December Precipitation (in.) 1989	1990
Arnett	28.7	30.7	.23	.25
Enid	30.3	33.8	.12	.43
Mutual	29.3	30.6	.66	.30
Tulsa	32.2	39.3	.26	3.72
Elk City	32.5	36.5	.19	.44
Oklahoma City	33.3	37.1	.32	1.51
McAlester	35.2	40.8	.70	4.26
Altus Irr Sta	34.5	36.8	.06	.85
Durant	34.6	41.0	.46	2.93
Ada	34.8	38.0	.33	2.44
Antlers	35.5	42.1	.30	2.36

EXTREMES

Variable	Station	Division	Observation	Date
Minimum temperature (F)	Kenton	1	-16	23
Maximum temperature (F)	Marietta	8	77	12
Maximum 24-hour precipitation	Tahlequah	6	2.74"	30

DECEMBER 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	30.2	31	-7.0	67.	11	-5.	23	1078.5	216.5	.0	.0	.252	31	-.38	.12	23
BEAVER	593	1	29.3	31	-6.9	71.	15	-5.	23	1106.0	213.0	.0	.0	.302	31	-.15	.10	16
BOISE CITY 2 E	908	1	30.3	31	-6.5	70.	11	-11.	22	1076.0	202.0	.0	.0	.357	31	-.04	.20	18
BUFFALO	1243	1	34.4	31	-4.1	72.	8	-2.	22	948.0	126.0	.0	.0	.612	31	-.08	.40	17
FARGO	3070	1	*****	0	*****	****	0	****	0	******	******	******	******	.384	31	-.27	.24	17
GAGE FAA APT	3407	1	32.3	31	-4.5	69.	8	-5.	23	1014.0	140.0	.0	.0	.250	31	-.39	.21	17
GATE	3489	1	31.7	31	*****	73.	15	-4.	23	1033.5	******	.0	******	.605	31	*****	.32	17
GOODWELL RES ST	3628	1	30.0	31	-6.7	70.	12	-8.	31	1084.0	207.0	.0	.0	.138	31	-.13	.04	17
GUYMON	3835	1	31.0	28	*****	70.	10	-7.	22	953.0	******	.0	******	.243	29	*****	.12	17
HOOKER	4298	1	29.8	31	-6.6	69.	15	-7.	22	1090.5	203.5	.0	.0	.217	31	-.17	.12	16
KENTON	4766	1	29.0	31	-7.9	73.	12	-16.	23	1117.0	246.0	.0	.0	.354	31	.05	.15	17
LAVERNE	5045	1	*****	0	*****	****	0	****	0	******	******	******	******	.783	31	.11	.65	17
OPTIMA LAKE	6740	1	32.0	29	*****	70.	15	-6.	22	957.5	******	.0	******	.255	30	*****	.15	17
RANGE	7412	1	*****	0	*****	****	0	****	0	******	******	******	******	.407	31	*****	.20	20
REGNIER	7534	1	*****	0	*****	****	0	****	0	******	******	******	******	.143	31	-.14	.08	17
TURPIN 4 SSE	9017	1	31.2	27	*****	70.	15	-5.	24	913.0	******	.0	******	.330	27	*****	.24	17

DECEMBER 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	34.4	31	*****	69.	9	-2.	22	950.0	******	.0	******	.470	31	*****	.28	17
VANCE AFB	302	2	*****	0	*****	****	0	****	0	******	******	******	******	.626	31	*****	.28	17
BILLINGS	755	2	33.5	31	*****	69.	12	-3.	31	975.0	******	.0	******	.516	31	-.70	.43	17
BLACKWELL 2E	818	2	33.8	30	*****	67.	9	-3.	22	937.0	******	.0	******	.875	31	*****	.38	17
BRAMAN	1075	2	*****	0	*****	****	0	****	0	******	******	******	******	.248	31	*****	.24	17
CHEROKEE	1724	2	32.6	31	-5.7	66.	9	-6.	30	1003.0	175.0	.0	.0	.100	31	-.77	.10	16
ENID	2912	2	34.1	31	-5.2	68.	11	-8.	30	958.5	161.5	.0	.0	.430	31	-.60	.33	17
FT SUPPLY DAM	3304	2	32.0	31	-6.1	70.	9	-3.	30	1022.0	188.0	.0	.0	.300	31	-.32	.19	17
FREEDOM	3358	2	32.3	31	*****	71.	8	-5.	24	1015.0	******	.0	******	.461	31	*****	.19	16
GREAT SALT PLNS	3740	2	33.3	31	*****	70.	10	-1.	31	982.0	******	.0	******	.293	21	*****	.23	17
HARDY	3909	2	*****	0	*****	****	0	****	0	******	******	******	******	.741	31	*****	.48	16
HELENA 1 SSE	4019	2	30.5	31	*****	69.	10	-2.	25	1069.5	******	.0	******	.464	31	-.48	.23	17
JEFFERSON	4573	2	33.7	31	-4.6	67.	9	-2.	31	969.0	141.0	.0	.0	.454	31	-.58	.24	16
LAMONT	5013	2	*****	0	*****	****	0	****	0	******	******	******	******	.643	31	*****	.40	17
MEDFORD	5768	2	*****	0	*****	****	0	****	0	******	******	******	******	.472	31	*****	.25	16
MORRISON	6065	2	*****	0	*****	****	0	****	0	******	******	******	******	.890	31	*****	.56	17
MUTUAL	6139	2	31.4	31	-6.4	70.	9	-3.	23	1041.5	198.5	.0	.0	.302	31	-.36	.10	21
NEWKIRK	6278	2	34.2	31	-3.4	68.	9	-2.	30	953.5	104.5	.0	.0	.175	31	-1.05	.10	17
ORIENTA	6751	2	*****	0	*****	****	0	****	0	******	******	******	******	.520	31	*****	.22	17
PERRY	7012	2	38.9	22	*****	71.	8	2.	22	575.0	******	.0	******	.501	25	*****	.41	17
PONCA CITY FAA	7201	2	35.0	31	-1.7	70.	9	2.	31	931.0	54.0	.0	.0	.933	31	-.34	.32	17
RED ROCK 1 NNE	7505	2	*****	0	*****	****	0	****	0	******	******	******	******	.703	31	-.59	.62	17
RENFROW	7556	2	*****	0	*****	****	0	****	0	******	******	******	******	.510	31	-.48	.31	16
WAYNOKA	9404	2	32.3	31	-6.3	71.	8	-8.	24	1014.0	196.0	.0	.0	.300	31	-.47	.22	17
WOODWARD	9760	2	*****	0	*****	****	0	****	0	******	******	******	******	.357	31	*****	.18	17

DECEMBER 1990 SUMMARY FOR NORTHEAST DIVISION (CD3)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV FROM NORM	MAX TEMP	MAX DAY	MIN TEMP	MIN DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	MAX DAY
BARNSDALL	535	3	35.2	31	*****	70.	9	0.	31	925.0	******	.0	******	1.787	29	*****	.50	18
BARTLESVILLE 2W	548	3	36.0	31	-3.0	70.	9	1.	31	900.5	94.5	.0	.0	1.504	31	.02	.57	18
BIXBY	782	3	36.7	31	-3.6	70.	13	5.	31	876.5	110.5	.0	.0	3.060	31	1.23	1.47	18
BURBANK	1256	3	*****	0	*****	****	0	****	0	******	******	******	******	.597	31	*****	.41	17
CHELSEA 4 S	1717	3	*****	0	*****	****	0	****	0	******	******	******	******	3.590	31	*****	1.01	18
CLAREMORE	1828	3	36.3	31	-2.7	69.	13	0.	25	888.5	82.5	.0	.0	3.774	31	1.92	.93	18
CLEVELAND 5 WSW	1902	3	38.9	28	*****	71.	9	0.	31	732.0	******	.0	******	1.241	31	*****	1.03	18
FORAKER	3250	3	*****	0	*****	****	0	****	0	******	******	******	******	.692	31	-.65	.66	17
HOMINY	4289	3	*****	0	*****	****	0	****	0	******	******	******	******	1.605	31	.33	.66	18
JAY TOWER	4567	3	46.0	20	*****	68.	13	6.	21	381.0	******	.0	******	4.330	20	*****	2.40	17
KANSAS 1 ESE	4672	3	37.2	31	*****	68.	12	2.	24	861.5	******	.0	******	6.264	31	*****	1.72	30
KEYSTONE DAM	4812	3	36.2	31	*****	71.	10	0.	30	893.5	******	.0	******	2.914	21	*****	1.19	17
LENAPAH	5118	3	*****	0	*****	****	0	****	0	******	******	******	******	2.250	30	*****	.70	17
MANNFORD 6 NW	5522	3	37.6	31	*****	73.	10	0.	31	850.5	******	.0	******	2.140	31	.72	.60	3
MARAMEC	5540	3	*****	0	*****	****	0	****	0	******	******	******	******	1.194	30	*****	.42	17
MIAMI	5855	3	35.0	27	*****	66.	11	2.	24	811.0	******	.0	******	3.020	31	.87	1.32	18
NOWATA	6485	3	35.4	31	-3.6	67.	12	1.	30	919.0	113.0	.0	.0	1.772	26	*****	1.10	17
ONETA 1 WNW	6713	3	*****	0	*****	****	0	****	0	******	******	******	******	3.623	31	*****	.91	30
PAWHUSKA	6935	3	35.2	31	-3.5	70.	9	-2.	31	923.5	108.5	.0	.0	1.026	31	-.32	.50	17
PAWNEE	6940	3	*****	0	*****	****	0	****	0	******	******	******	******	1.021	31	-.23	.52	17
PRYOR 6 N	7309	3	35.2	31	-4.2	68.	13	0.	24	923.0	129.0	.0	.0	4.506	31	2.47	1.04	30
RALSTON	7390	3	36.4	31	*****	73.	9	-1.	31	885.5	******	.0	******	.994	31	-.37	.40	18
RAMONA 4 N	7394	3	*****	0	*****	****	0	****	0	******	******	******	******	2.620	31	*****	.88	30
SKIATOOK	8258	3	*****	0	*****	****	0	****	0	******	******	******	******	2.190	31	.74	.99	18
SPAVINAW	8380	3	40.5	30	*****	69.	12	4.	30	733.5	******	.0	******	5.776	30	*****	1.63	30
TULSA WSO APT	8992	3	39.3	31	-.5	70.	12	6.	30	795.5	14.5	.0	.0	3.725	31	1.90	.89	29
UPPER SPAVINAW	9101	3	39.2	29	*****	69.	12	4.	30	749.5	******	.0	******	7.084	31	*****	1.90	18
VINITA 2 N	9203	3	36.6	31	-2.3	67.	12	3.	30	880.0	71.0	.0	.0	3.730	31	1.59	.89	30
WAGONER	9247	3	39.3	31	-2.1	72.	12	5.	30	796.0	64.0	.0	.0	3.833	31	1.77	1.39	30
WANN	9298	3	*****	0	*****	****	0	****	0	******	******	******	******	1.472	31	*****	.46	18
WYNONA	9792	3	37.0	31	*****	70.	12	2.	30	867.5	******	.0	******	2.810	31	*****	1.90	17

DECEMBER 1990 SUMMARY FOR WEST CENTRAL DIVISION (CD4)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV FROM NORM	MAX TEMP	MAX DAY	MIN TEMP	MIN DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	MAX DAY
CANTON DAM	1445	4	34.1	20	*****	68.	10	-2.	24	618.0	******	.0	******	.321	20	*****	.25	17
CHEYENNE	1738	4	*****	0	*****	****	0	****	0	******	******	******	******	.000	31	*****	.00	31
CLINTON	1909	4	36.0	31	-3.9	68.	8	-4.	22	898.5	120.5	.0	.0	.240	31	-.67	.15	16
COLONY	2039	4	*****	0	*****	****	0	****	0	******	******	******	******	.492	31	*****	.25	15
CORDELL	2125	4	*****	0	*****	****	0	****	0	******	******	******	******	.403	31	-.51	.30	16
ELK CITY 1 E	2849	4	35.7	29	*****	66.	8	0.	22	849.0	******	.0	******	.440	29	*****	.17	16
ERICK 4 E	2944	4	34.5	31	-5.8	68.	10	-2.	23	945.0	179.0	.0	.0	.522	31	-.16	.22	16
GEARY	3497	4	35.1	31	-5.1	66.	8	2.	31	926.0	157.0	.0	.0	.330	31	-.69	.33	16
HAMMON 1 NNE	3871	4	31.4	31	-7.6	67.	11	-2.	24	1041.5	235.5	.0	.0	.140	31	-.57	.06	16
LEEDEY	5090	4	*****	0	*****	****	0	****	0	******	******	******	******	.100	31	-.59	.06	23
MACKIE 4 NNW	5463	4	*****	0	*****	****	0	****	0	******	******	******	******	.310	31	*****	.12	16
MORAVIA 2 NNE	6035	4	*****	0	*****	****	0	****	0	******	******	******	******	.423	31	-.38	.29	16
OKEENE	6629	4	34.6	31	-5.7	70.	9	0.	31	942.5	176.5	.0	.0	.500	31	-.36	.40	17
RETROP	7565	4	*****	0	*****	****	0	****	0	******	******	******	******	.410	31	*****	.28	16
REYDON	7579	4	34.5	31	*****	69.	10	-3.	23	945.0	******	.0	******	.175	31	-.44	.17	16
SAYRE	7952	4	*****	0	*****	****	0	****	0	******	******	******	******	.532	31	-.07	.20	14
TALOGA	8708	4	32.2	31	-6.5	67.	8	-3.	24	1018.0	203.0	.0	.0	.254	31	-.38	.18	17
THOMAS	8815	4	*****	0	*****	****	0	****	0	******	******	******	******	.200	31	*****	.11	17
VICI	9172	4	*****	0	*****	****	0	****	0	******	******	******	******	.252	31	*****	.10	23
WATONGA	9364	4	35.5	31	*****	69.	9	4.	22	915.0	******	.0	******	.218	31	-.78	.10	17
WEATHERFORD	9422	4	33.3	31	-6.9	69.	9	0.	23	982.5	213.5	.0	.0	.313	31	-.55	.18	16

DECEMBER 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	******	******	******	******	1.360	31	*****	.58	17
ARCADIA	288	5	*****	0	*****	****	0	****	0	******	******	******	******	1.360	31	*****	.50	17
TINKER AFB	325	5	*****	0	*****	****	0	****	0	******	******	******	******	2.033	31	*****	.96	18
BLANCHARD 2 SSW	830	5	37.3	31	*****	68.	9	2.	23	857.5	******	.0	******	1.682	31	*****	.67	18
BRISTOW	1144	5	37.5	31	-3.3	70.	9	3.	31	852.0	102.0	.0	.0	2.932	31	1.34	1.10	18
CHANDLER	1684	5	37.5	31	-4.0	70.	10	2.	31	853.5	124.5	.0	.0	1.812	31	.42	.98	17
CHICKASHA EX ST	1750	5	36.3	31	-5.3	68.	9	2.	23	890.0	165.0	.0	.0	1.580	31	.50	.57	17
COX CITY 1 E	2196	5	*****	0	*****	****	0	****	0	******	******	******	******	1.193	31	*****	.44	17
CRESCENT	2242	5	*****	0	*****	****	0	****	0	******	******	******	******	.830	31	*****	.53	17
CUSHING	2318	5	35.8	31	-3.7	70.	11	1.	31	905.0	114.0	.0	.0	1.252	29	*****	.60	17
EL RENO 1 N	2818	5	35.5	31	-4.6	67.	9	2.	31	914.0	142.0	.0	.0	.820	31	-.21	.44	17
GUTHRIE	3821	5	37.7	31	-2.3	72.	9	1.	31	846.0	71.0	.0	.0	2.105	31	.90	.80	17
HENNESSEY 2 SE	4055	5	34.1	31	-5.2	67.	9	-1.	31	958.5	161.5	.0	.0	.560	31	-.43	.43	17
INGALLS	4489	5	*****	0	*****	****	0	****	0	******	******	******	******	.416	31	*****	.24	17
KINGFISHER 2 SE	4861	5	35.2	31	-4.7	69.	9	1.	31	922.5	144.5	.0	.0	.530	31	-.60	.26	17
KONAWA	4915	5	*****	0	*****	****	0	****	0	******	******	******	******	2.343	31	.48	.90	17
MARSHALL	5589	5	*****	0	*****	****	0	****	0	******	******	******	******	.650	31	-.49	.46	17
MEEKER 4 W	5779	5	37.3	31	-3.5	69.	10	2.	31	858.0	108.0	.0	.0	1.340	31	-.09	.52	17
MULHALL	6110	5	*****	0	*****	****	0	****	0	******	******	******	******	.730	31	*****	.45	17
NORMAN 3 S	6386	5	37.3	30	*****	69.	9	3.	31	832.0	******	.0	******	2.613	31	1.26	.88	18
OILTON 2 SE	6616	5	*****	0	*****	****	0	****	0	******	******	******	******	1.430	31	*****	.59	17
OKEMAH	6638	5	38.3	31	-3.7	70.	12	4.	30	828.0	115.0	.0	.0	3.131	31	1.30	1.10	30
OKLAHOMA CITY WS	6661	5	37.1	31	-2.8	68.	9	3.	23	865.5	87.5	.0	.0	1.513	31	.31	.82	18
PERKINS	7003	5	*****	0	*****	****	0	****	0	******	******	******	******	1.080	31	-.27	.61	18
PIEDMONT	7068	5	*****	0	*****	****	0	****	0	******	******	******	******	.810	31	*****	.33	17
PRAGUE	7264	5	*****	0	*****	****	0	****	0	******	******	******	******	2.480	28	*****	.74	31
PURCELL 5 SW	7327	5	37.0	31	-4.0	69.	9	4.	31	868.0	124.0	.0	.0	3.102	31	1.64	.85	18
SEMINOLE	8042	5	39.3	31	-3.7	71.	12	6.	31	797.5	115.5	.0	.0	2.130	31	.35	1.35	18
SHAWNEE	8110	5	*****	0	*****	****	0	****	0	******	******	******	******	2.441	31	.91	.82	17
STELLA	8479	5	*****	0	*****	****	0	****	0	******	******	******	******	2.030	31	*****	.66	30
STILLWATER 2 W	8501	5	36.1	31	-3.7	75.	10	-3.	23	896.5	115.5	.0	.0	.993	31	-.23	.70	17
STROUD 1 N	8563	5	*****	0	*****	****	0	****	0	******	******	******	******	2.671	31	*****	.87	18
TECUMSEH	8751	5	*****	0	*****	****	0	****	0	******	******	******	******	2.350	31	*****	1.18	18
TROUSDALE	8960	5	*****	0	*****	****	0	****	0	******	******	******	******	1.860	31	*****	.71	17
UNION CITY 1 SE	9086	5	*****	0	*****	****	0	****	0	******	******	******	******	1.031	31	-.31	.48	17
WELTY 1 SSE	9479	5	*****	0	*****	****	0	****	0	******	******	******	******	3.153	31	*****	.85	30
WEWOKA	9575	5	*****	0	*****	****	0	****	0	******	******	******	******	2.850	31	1.07	.87	16

DECEMBER 1990 SUMMARY FOR EAST CENTRAL DIVISION (CD6)

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
ASHLAND	364	6	*****	0	*****	****	0	****	0	******	******	******	******	2.513	31	*****	.86	3
BEGGS	631	6	*****	0	*****	****	0	****	0	******	******	******	******	3.501	31	*****	1.05	18
BOYNTON	1027	6	*****	0	*****	****	0	****	0	******	******	******	******	3.743	31	*****	.97	30
CALVIN	1391	6	*****	0	*****	****	0	****	0	******	******	******	******	3.272	31	1.31	1.62	29
CHECOTAH	1711	6	*****	0	*****	****	0	****	0	******	******	******	******	4.425	31	2.31	1.80	30
CLAYTON 11 WNW	1858	6	*****	0	*****	****	0	****	0	******	******	******	******	2.650	31	*****	1.20	17
DEWAR 2 NE	2485	6	*****	0	*****	****	0	****	0	******	******	******	******	3.050	31	1.18	.77	17
DUSTIN	2690	6	*****	0	*****	****	0	****	0	******	******	******	******	2.600	31	*****	.98	17
EUFAULA	2993	6	41.0	31	*****	72.	12	8.	23	745.0	******	.0	******	3.484	31	1.04	1.25	30
HANNA	3884	6	38.7	31	*****	71.	12	5.	31	816.0	******	.0	******	3.570	31	1.47	1.37	30
HARTSHORNE	3946	6	*****	0	*****	****	0	****	0	******	******	******	******	4.101	31	*****	1.41	30
HASKELL	3956	6	*****	0	*****	****	0	****	0	******	******	******	******	3.851	31	1.88	1.32	30
HOLDENVILLE	4235	6	41.1	25	*****	71.	12	6.	23	597.0	******	.0	******	2.770	25	*****	1.13	25
LAKE EUFAULA	4975	6	40.4	31	*****	74.	13	7.	23	761.5	******	.0	******	3.085	30	*****	1.20	3
LYONS 2 N	5437	6	*****	0	*****	****	0	****	0	******	******	******	******	5.711	31	3.71	1.19	2
MARBLE CITY	5546	6	*****	0	*****	****	0	****	0	******	******	******	******	5.341	31	*****	1.68	3
MCALESTER FAA	5664	6	40.8	31	-1.2	73.	12	7.	24	750.5	37.5	.0	.0	4.262	31	1.88	1.03	30
MCCURTAIN 1 SE	5693	6	41.5	31	*****	73.	12	9.	31	729.5	******	.0	******	4.100	31	1.46	1.10	3
MUSKOGEE	6130	6	37.7	31	-4.0	70.	12	5.	30	846.5	124.5	.0	.0	4.100	31	1.86	1.12	29
OKMULGEE W W	6670	6	37.7	31	-4.2	70.	13	5.	31	847.0	131.0	.0	.0	2.183	31	.13	1.04	18
OKTAHA 2 NE	6678	6	*****	0	*****	****	0	****	0	******	******	******	******	3.465	31	*****	.95	3
QUINTON	7372	6	*****	0	*****	****	0	****	0	******	******	******	******	4.335	31	1.98	1.38	3
SALLISAW 2 NE	7862	6	39.0	31	-3.2	71.	12	9.	31	807.0	100.0	.0	.0	3.891	31	1.42	1.35	3
SCIPIO	7979	6	*****	0	*****	****	0	****	0	******	******	******	******	2.630	31	*****	.80	30
SCRAPER	7993	6	*****	0	*****	****	0	****	0	******	******	******	******	6.850	31	*****	1.70	30
SHORT	8170	6	*****	0	*****	****	0	****	0	******	******	******	******	5.071	31	*****	1.47	3
STILWELL 1 NE	8506	6	39.2	31	*****	69.	12	6.	31	800.5	******	.0	******	5.553	31	2.84	1.41	30
TAHLEQUAH	8677	6	38.5	31	-2.3	71.	12	2.	31	823.0	73.0	.0	.0	6.122	31	3.66	2.74	30
WEBBERS FALLS	9445	6	38.8	31	-1.6	72.	13	7.	31	813.5	50.5	.0	.0	4.371	31	2.08	1.39	3
WESTVILLE	9523	6	*****	0	*****	****	0	****	0	******	******	******	******	5.760	31	*****	1.43	3
WETUMKA 3 NE	9571	6	*****	0	*****	****	0	****	0	******	******	******	******	2.526	31	.64	.85	17

DECEMBER 1990 FOR SUMMARY FOR SOUTHWEST DIVISION (CD7)

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
ALTUS IRR STA	179	7	36.8	31	-6.0	69.	11	4.	22	874.5	186.5	.0	.0	.850	31	-.02	.46	16
ALTUS DAM	184	7	35.4	31	*****	69.	10	4.	23	916.5	******	.0	******	.510	31	-.34	.38	16
ANADARKO	224	7	34.5	30	-6.7	68.	9	0.	31	915.0	177.0	.0	.0	1.501	31	.31	.78	17
APACHE	260	7	*****	0	*****	****	0	****	0	******	******	******	******	1.600	31	*****	.82	18
ALTUS AFB	447	7	*****	0	*****	****	0	****	0	******	******	******	******	.782	30	*****	.37	17
CARNEGIE 2 ENE	1504	7	35.6	31	-5.5	70.	9	1.	31	911.5	170.5	.0	.0	.761	29	*****	.60	17
CHATTANOOGA	1706	7	36.6	30	-5.8	69.	11	5.	24	852.0	151.0	.0	.0	1.102	30	*****	.32	17
DUNCAN 12 W	2668	7	*****	0	*****	****	0	****	0	******	******	******	******	1.314	31	*****	.50	17
FREDERICK	3353	7	34.3	31	-9.5	69.	11	3.	22	952.5	295.5	.0	.0	.950	31	-.07	.45	16
GRANDFIELD 4 NW	3709	7	*****	0	*****	****	0	****	0	******	******	******	******	1.130	31	-.12	.38	16
HOBART FAA APT	4204	7	36.4	30	-3.5	66.	12	3.	22	857.5	79.5	.0	.0	.754	31	-.06	.35	17
HOLLIS	4249	7	36.1	31	-6.1	71.	9	3.	23	897.0	190.0	.0	.0	.490	31	-.24	.39	16
LAWTON	5063	7	35.6	31	-6.6	69.	10	3.	22	910.5	203.5	.0	.0	2.281	31	1.06	1.14	31
FORT SILL	5068	7	37.3	31	*****	69.	11	5.	22	859.5	******	.0	******	1.047	31	-.17	.44	29
LOOKEBA 2 ENE	5329	7	*****	0	*****	****	0	****	0	******	******	******	******	.670	31	*****	.33	17
MANGUM RES STA	5509	7	35.6	31	-6.3	70.	9	3.	23	912.0	196.0	.0	.0	.800	31	.04	.75	17
RANDLETT 9 E	7403	7	*****	0	*****	****	0	****	0	******	******	******	******	.850	31	*****	.50	16
ROOSEVELT	7727	7	*****	0	*****	****	0	****	0	******	******	******	******	.820	31	-.15	.42	16
SEDAN	8016	7	*****	0	*****	****	0	****	0	******	******	******	******	.962	31	*****	.36	17
VINSON 3 WNW	9212	7	*****	0	*****	****	0	****	0	******	******	******	******	.443	31	-.34	.20	16
WALTERS	9278	7	38.2	31	-5.3	70.	11	5.	24	832.0	165.0	.0	.0	1.131	31	-.29	.59	16
WICHITA MT WLR	9629	7	34.7	31	-6.5	66.	13	1.	24	938.0	200.0	.0	.0	1.470	31	.35	1.02	17
WILLOW	9668	7	*****	0	*****	****	0	****	0	******	******	******	******	.471	31	*****	.30	16

DECEMBER 1990 SUMMARY FOR SOUTH CENTRAL DIVISION (CD8)

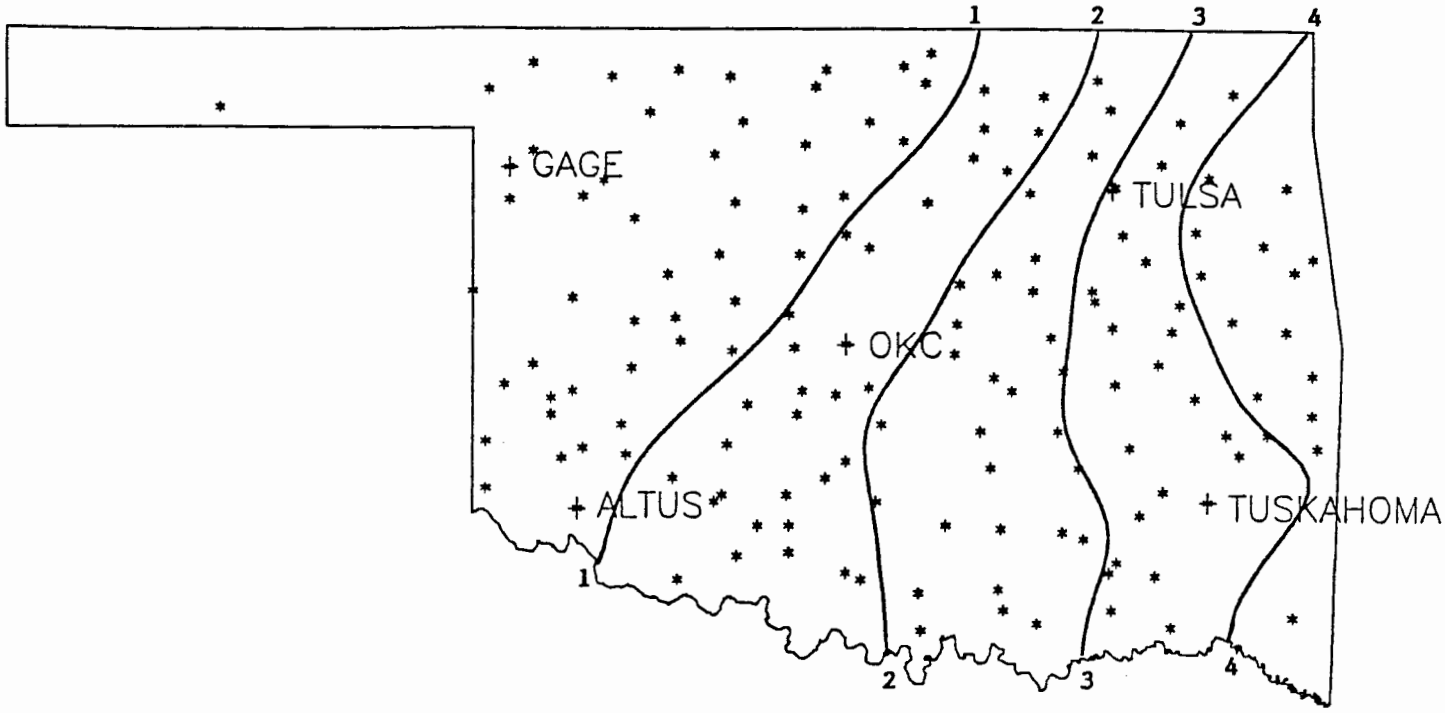
NAME	ID	CD	MEAN TEMP	NUM OBS	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
ADA	17	8	38.0	31	-5.5	71.	12	4.	23	838.0	171.0	.0	.0	2.440	31	.50	.77	17
ALLEN	147	8	*****	0	*****	****	0	****	0	******	******	******	******	2.350	31	*****	.80	17
ARDMORE	292	8	40.1	31	-6.1	74.	12	5.	24	771.0	188.0	.0	.0	2.220	31	.51	.78	29
ATOKA DAM	394	8	40.9	31	*****	75.	13	10.	31	747.5	******	.0	******	2.372	31	*****	.66	17
BOKCHITO	917	8	*****	0	*****	****	0	****	0	******	******	******	******	4.200	31	*****	1.25	18
CENTRAHOMA	1648	8	*****	0	*****	****	0	****	0	******	******	******	******	2.000	31	*****	.70	28
CHICKASAW NRA	1745	8	38.8	31	*****	74.	13	5.	31	812.0	******	.0	******	2.520	31	*****	.82	17
COLEMAN	2011	8	*****	0	*****	****	0	****	0	******	******	******	******	1.650	31	*****	.60	16
COMANCHE	2054	8	*****	0	*****	****	0	****	0	******	******	******	******	1.680	31	*****	.90	17
DAISY 4 ENE	2354	8	*****	0	*****	****	0	****	0	******	******	******	******	2.723	31	.06	.70	18
DUNCAN	2660	8	37.3	31	-6.4	69.	12	4.	23	859.5	199.5	.0	.0	1.880	31	.53	.45	17
DURANT USDA	2678	8	40.8	31	*****	76.	13	8.	31	749.5	******	.0	******	2.930	31	.75	.83	17
ELMORE CITY	2872	8	*****	0	*****	****	0	****	0	******	******	******	******	1.653	31	*****	.82	30
FARRIS 3 WNW	3083	8	*****	0	*****	****	0	****	0	******	******	******	******	2.970	31	*****	.81	18
GRADY	3688	8	*****	0	*****	****	0	****	0	******	******	******	******	1.750	31	*****	.44	17
HEALDTON	4001	8	39.0	31	*****	73.	12	5.	23	806.5	******	.0	******	2.071	31	.46	.47	16
HENNEPIN	4052	8	*****	0	*****	****	0	****	0	******	******	******	******	1.720	31	*****	.83	17
KETCHUM RANCH	4780	8	*****	0	*****	****	0	****	0	******	******	******	******	2.260	31	*****	.88	29
KINGSTON	4865	8	*****	0	*****	****	0	****	0	******	******	******	******	2.420	31	.41	.48	16
LEHIGH	5108	8	*****	0	*****	****	0	****	0	******	******	******	******	2.636	31	*****	.83	30
LINDSAY 2 W	5216	8	37.0	31	*****	67.	12	4.	23	867.0	******	.0	******	2.134	31	.66	.60	17
LOCO 6 SE	5247	8	*****	0	*****	****	0	****	0	******	******	******	******	1.892	31	*****	.50	16
MADILL	5468	8	40.8	31	-4.0	75.	12	8.	23	749.5	123.5	.0	.0	1.850	31	-.12	.69	15
MARIETTA	5563	8	40.8	31	-4.0	77.	12	7.	23	750.0	124.0	.0	.0	1.621	31	-.08	.45	16
MARLOW 1 WSW	5581	8	37.9	31	*****	69.	11	3.	31	841.5	******	.0	******	1.530	31	.17	.41	30
MCGEE CREEK DAM	5713	8	40.6	31	*****	75.	13	8.	31	757.0	******	.0	******	3.050	31	*****	.74	18
PAULS VALLEY	6926	8	38.0	31	-4.8	71.	12	5.	31	836.5	148.5	.0	.0	1.703	31	-.01	.70	17
PONTOTOC	7214	8	*****	0	*****	****	0	****	0	******	******	******	******	2.700	31	.83	.74	29
TISHOMINGO NWLR	8884	8	39.7	30	*****	75.	12	7.	22	760.0	******	.0	******	2.680	31	.60	1.06	30
TUSSY	9032	8	*****	0	*****	****	0	****	0	******	******	******	******	1.962	31	*****	.78	16
WAURIKA	9395	8	39.6	31	-5.0	72.	12	6.	23	787.5	155.5	.0	.0	1.370	31	-.11	.41	16

DECEMBER 1990 SUMMARY FOR SOUTHEAST DIVISION (CD9)

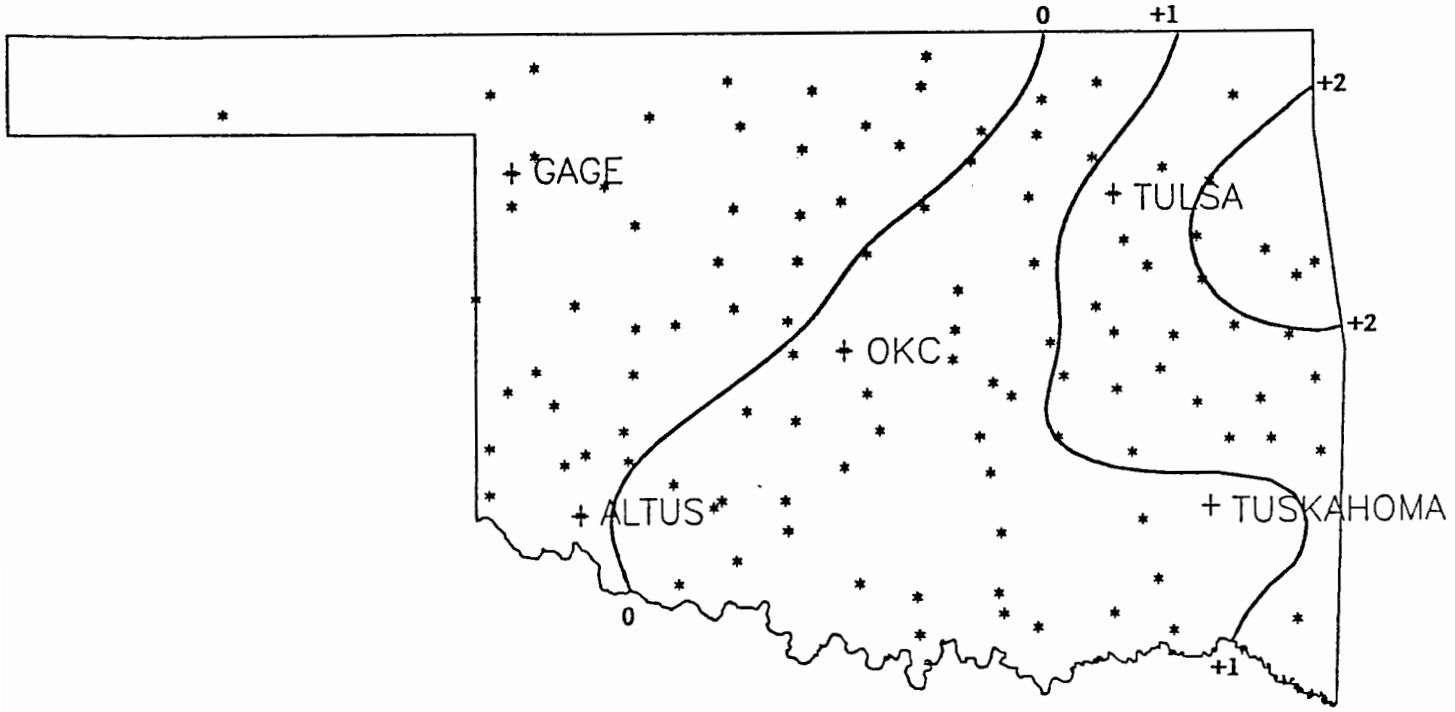
NAME	ID	CD	MEAN TEMP	NUM OBS	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
ANTLERS	256	9	42.1	31	-1.6	76.	22	8.	24	709.5	49.5	.0	.0	2.360	31	-.66	.49	17
BATTIEST 1 SSW	567	9	39.5	30	*****	71.	11	4.	23	764.0	******	.0	******	4.110	29	*****	.90	3
BENGAL	670	9	*****	0	*****	****	0	****	0	******	******	******	******	4.661	31	*****	.97	18
BOSWELL 4 NNW	980	9	43.7	31	*****	76.	12	9.	31	660.0	******	.5	******	3.710	31	1.07	.91	17
BROKEN BOW 1 N	1162	9	*****	0	*****	****	0	****	0	******	******	******	******	5.740	31	1.92	1.10	21
BROKEN BOW DAM	1168	9	41.0	31	*****	75.	13	8.	25	743.0	******	.0	******	5.220	31	*****	1.03	21
CARNASAW TWR	1499	9	*****	0	*****	****	0	****	0	******	******	******	******	5.580	31	1.68	1.18	21
CARTER TWR	1544	9	*****	0	*****	****	0	****	0	******	******	******	******	5.260	31	1.35	1.10	3
FANSHAWE	3065	9	*****	0	*****	****	0	****	0	******	******	******	******	4.800	31	1.86	1.00	18
FLAGPOLE TWR	3169	9	*****	0	*****	****	0	****	0	******	******	******	******	3.860	31	*****	1.12	31
HEAVENER 1 SE	4008	9	*****	0	*****	****	0	****	0	******	******	******	******	2.811	31	-.41	.75	18
HEE MT TWR	4017	9	*****	0	*****	****	0	****	0	******	******	******	******	4.613	31	*****	.90	3
HUGO	4384	9	42.5	31	-3.2	75.	12	9.	24	696.5	98.5	.0	.0	4.090	31	1.01	.95	3
JADIE TOWER	4560	9	*****	0	*****	****	0	****	0	******	******	******	******	7.200	31	*****	1.93	2
POTEAU W W	7254	9	39.7	31	*****	73.	13	8.	31	784.5	******	.0	******	4.783	31	*****	.94	18
SMITHVILLE 1 W	8285	9	39.0	31	*****	73.	12	4.	24	807.0	******	.0	******	3.932	31	*****	.88	3
SOBAL TOWER	8305	9	*****	0	*****	****	0	****	0	******	******	******	******	4.010	31	.49	.86	17
SPIRO	8416	9	*****	0	*****	****	0	****	0	******	******	******	******	4.350	31	1.56	.97	18
TUSKAHOMA	9023	9	41.9	31	*****	75.	12	4.	24	717.5	******	1.0	******	3.842	31	*****	.88	18
VALLIANT 3 W	9118	9	*****	0	*****	****	0	****	0	******	******	******	******	5.050	31	1.45	1.27	3
WILBURTON 9 ENE	9634	9	40.3	31	-2.6	73.	12	6.	31	764.5	79.5	.0	.0	3.452	31	.58	1.05	17

DECEMBER 1990 CLIMATE DIVISION SUMMARY

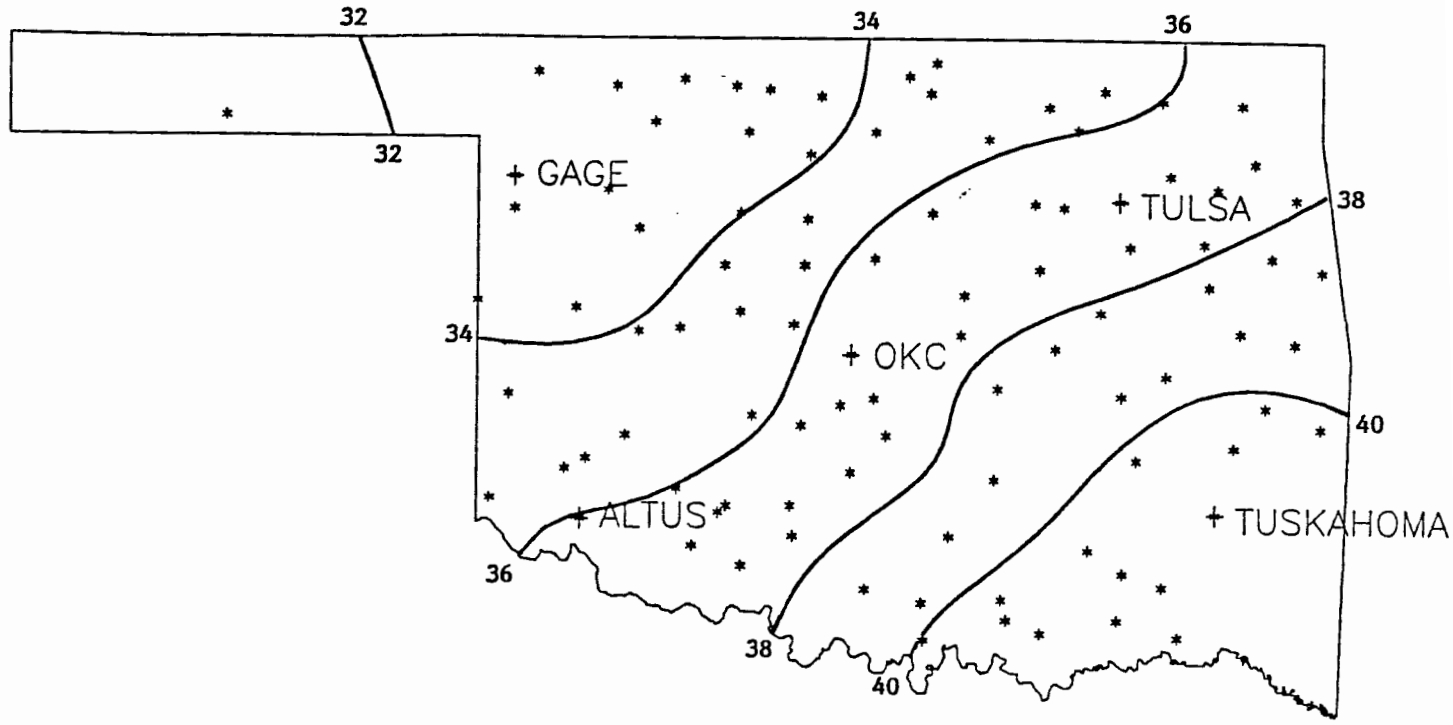
CLIMATE DIV	MEAN TEMP	NUM STA	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEGREE DAYS	DEV FROM NORM	COOL DEGREE DAYS	DEV FROM NORM	TOT PPT	NUM STA	DEV FROM NORM	MAX 24-HR	DAY
1	30.8	9	-6.2	73.0	12	-16.0	23	1060.8	190.8	.0	.0	.37	13	-.12	.65	17
2	33.1	14	-5.3	71.0	8	-8.0	24	987.2	160.9	.0	.0	.50	23	-.49	.62	17
3	36.9	16	-2.6	73.0	9	-2.0	31	870.0	78.5	.0	.0	2.76	24	1.10	2.40	17
4	34.1	9	-5.6	70.0	9	-4.0	22	957.1	174.6	.0	.0	.31	19	-.48	.40	17
5	36.8	16	-3.8	75.0	10	-3.0	23	871.5	116.9	.0	.0	1.70	35	.31	1.35	18
6	39.4	11	-2.3	74.0	13	2.0	31	794.5	72.3	.0	.0	4.04	29	1.83	2.74	30
7	35.9	13	-6.1	71.0	9	.0	31	894.5	182.0	.0	.0	1.00	20	-.02	1.14	31
8	39.3	15	-5.1	77.0	12	3.0	31	795.5	155.2	.0	.0	2.22	31	.42	1.25	18
9	41.1	9	-3.0	76.0	12	4.0	24	738.5	90.8	.2	.2	4.47	20	1.19	1.93	2



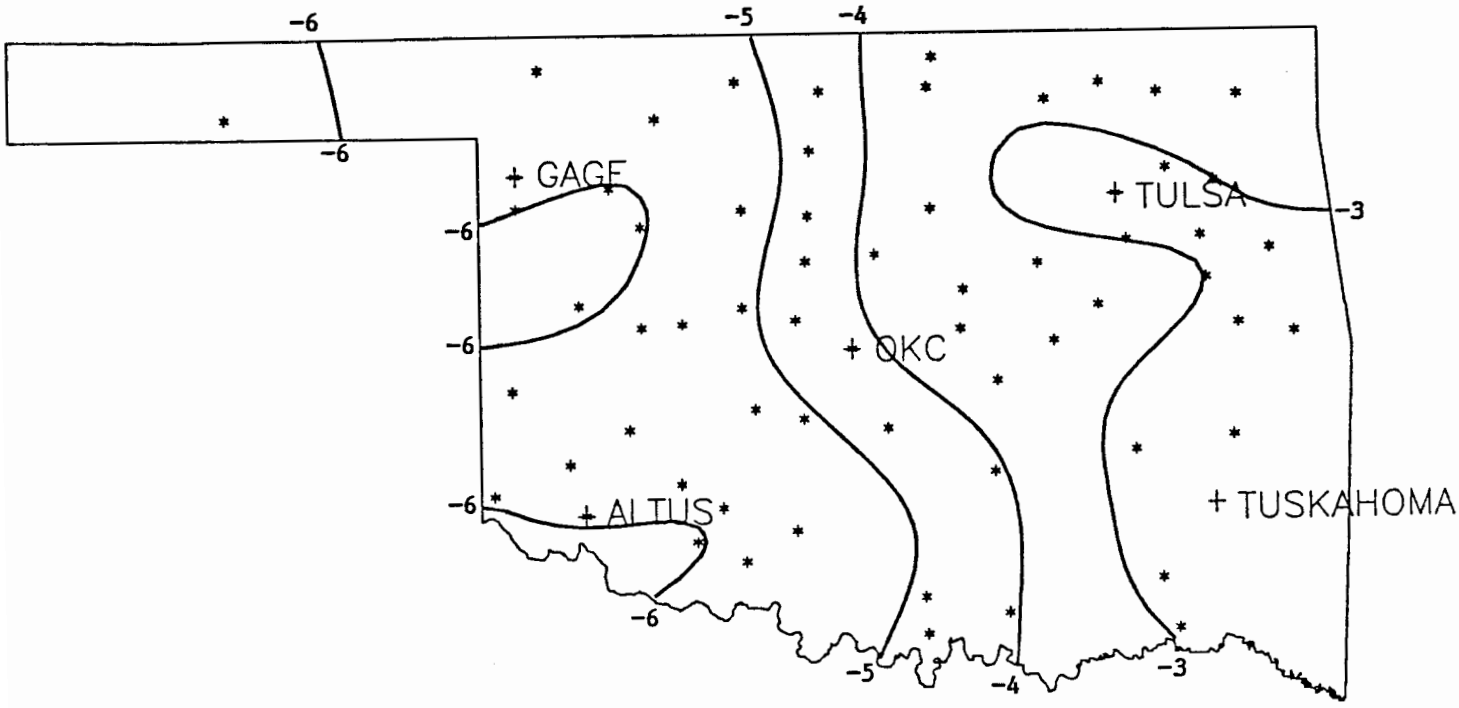
DECEMBER 1990 TOTAL PRECIPITATION
(Inches)



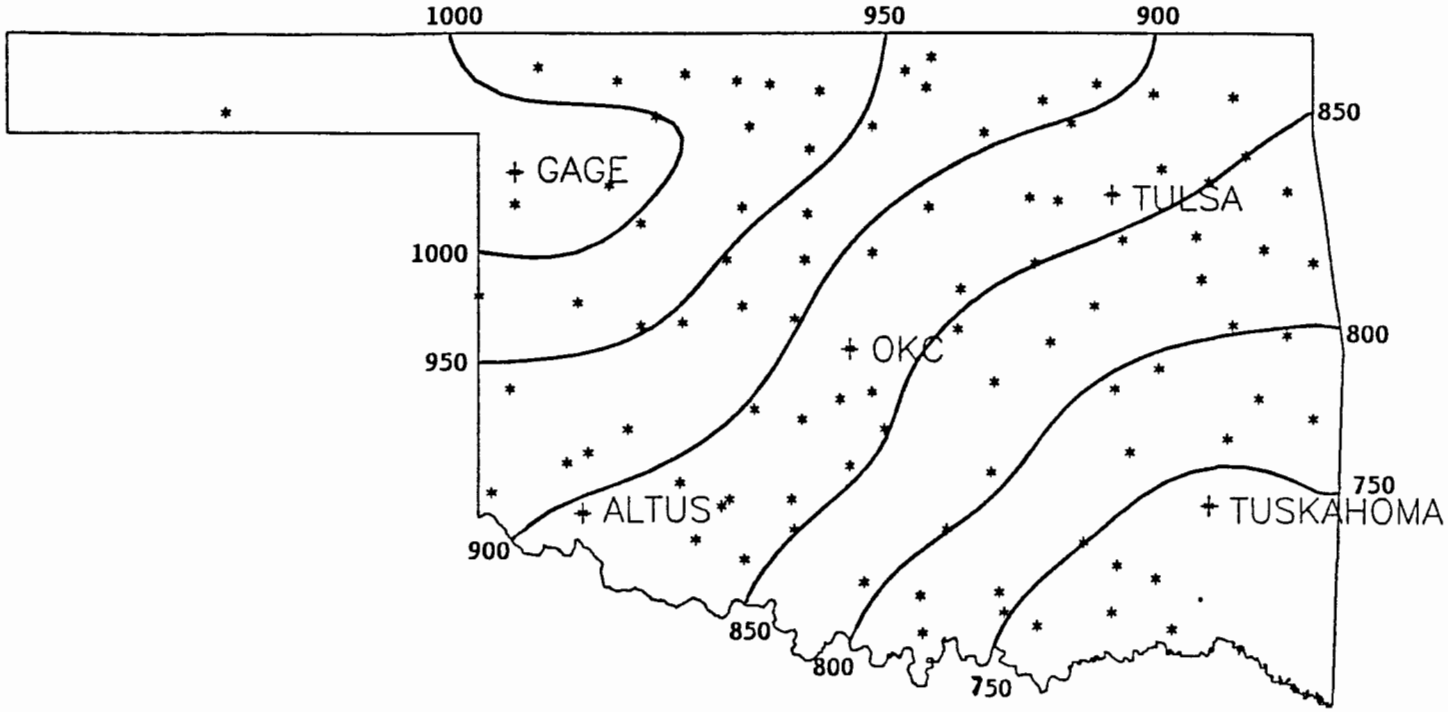
DECEMBER 1990 DEVIATION FROM NORMAL PRECIPITATION
(Inches)



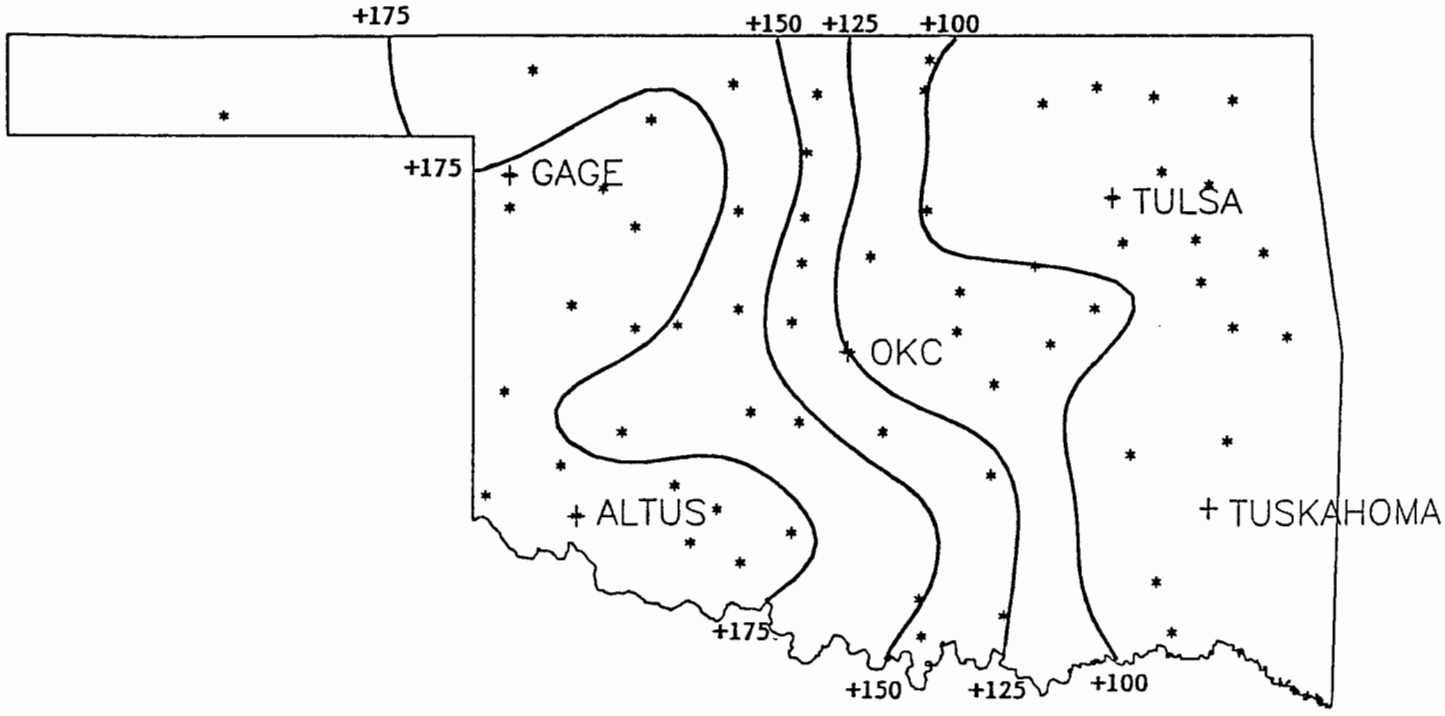
DECEMBER 1990 AVERAGE MONTHLY TEMPERATURES
(Degrees F)



DECEMBER 1990 DEVIATION FROM NORMAL TEMPERATURES
(Degrees F)

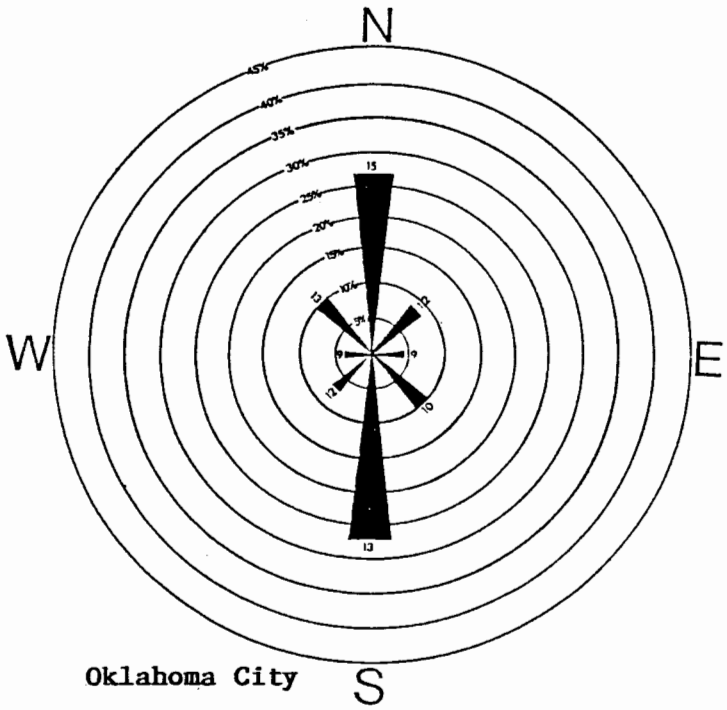


DECEMBER 1990 HEATING DEGREE DAYS

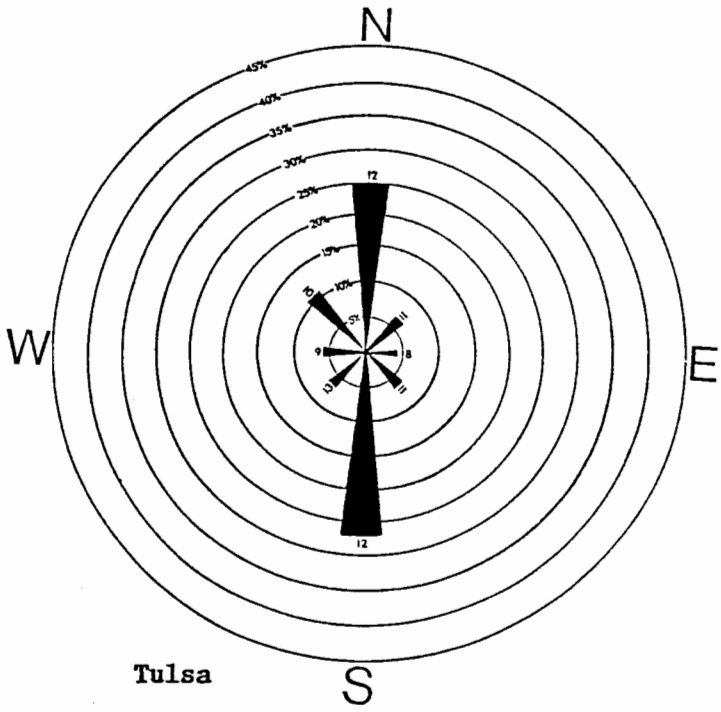


DECEMBER 1990 DEVIATION FROM NORMAL HEATING DEGREE DAYS

February wind roses for Oklahoma City and Tulsa for 10-year (1965-1974) mean winds (data adapted from NOAA Airport Climatology Series). Percents represent the percentage 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

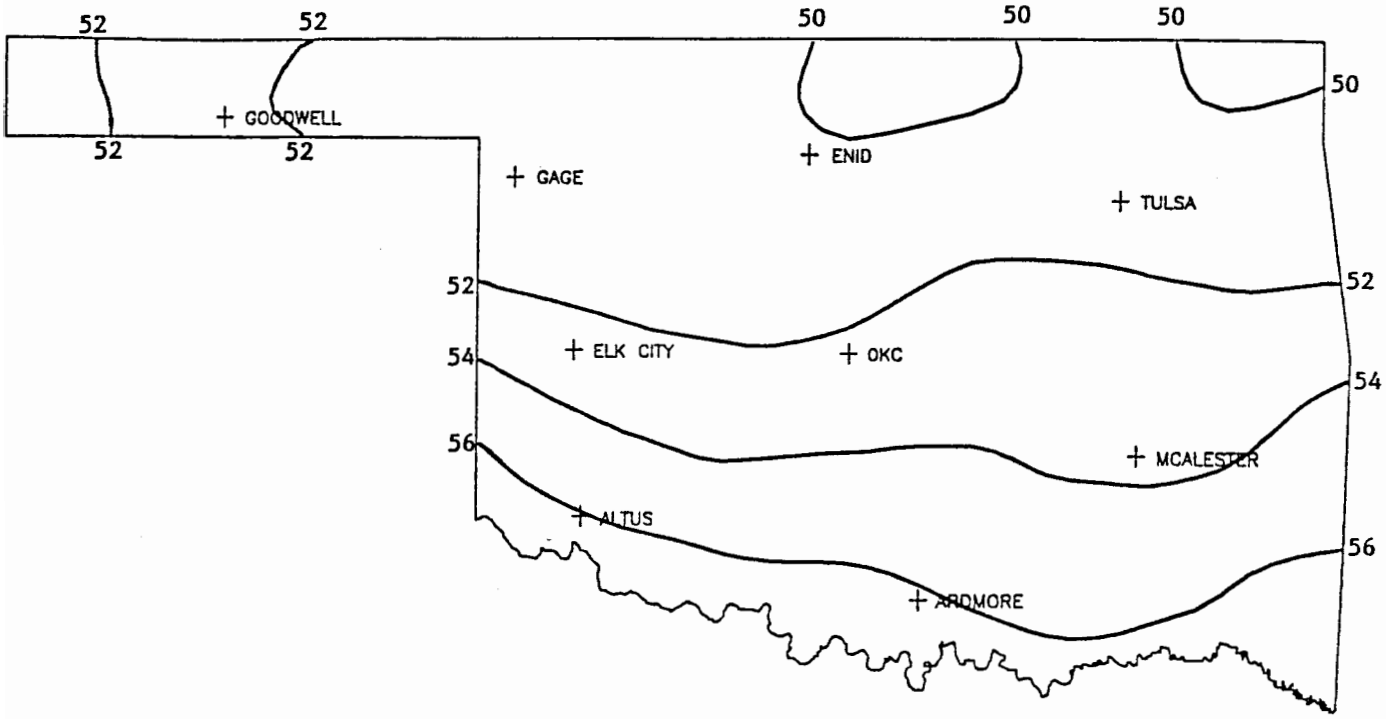
FEBRUARY 1991 SUNRISE AND SUNSET

Oklahoma City

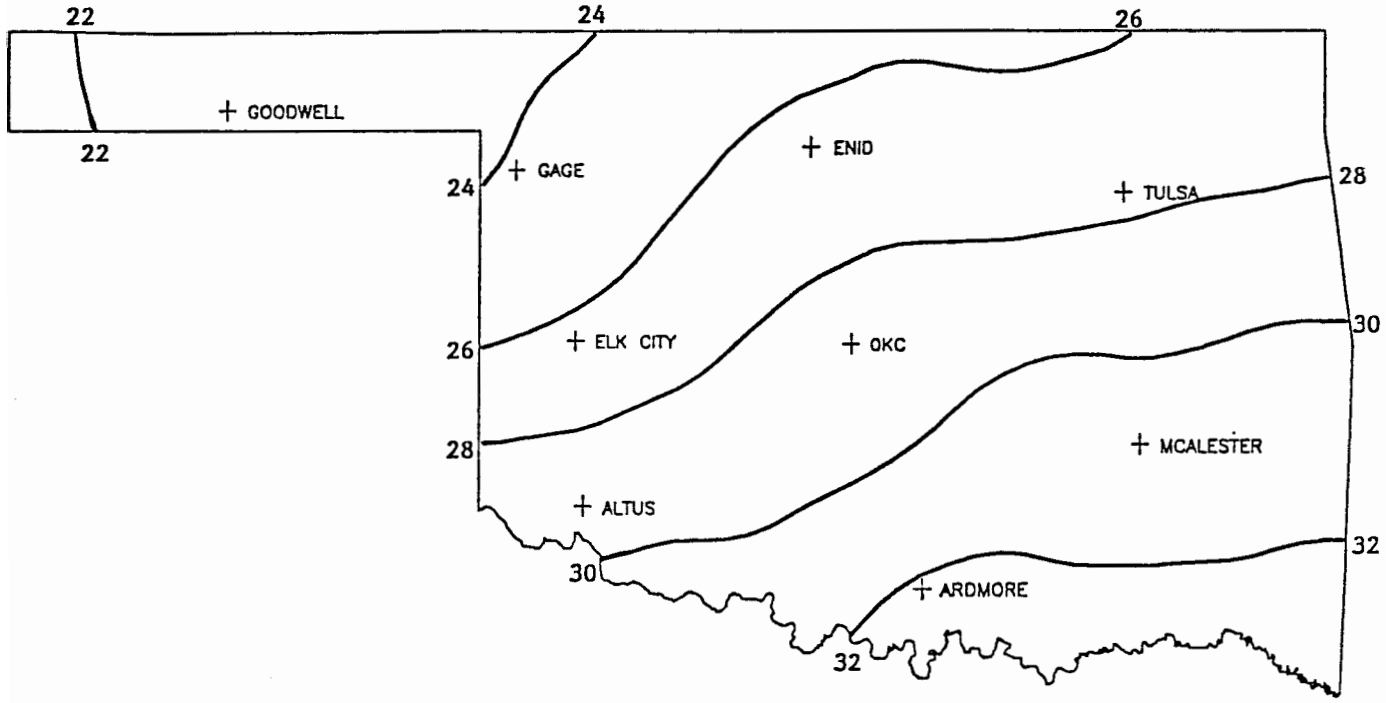
DATE	SUNRISE	SUNSET	DAYLIGHT
910201	7:30AM	5:58PM LT	10:28
910202	7:29AM	5:59PM LT	10:29
910203	7:28AM	6: 0PM LT	10:31
910204	7:28AM	6: 1PM LT	10:33
910205	7:27AM	6: 2PM LT	10:35
910206	7:26AM	6: 3PM LT	10:36
910207	7:25AM	6: 4PM LT	10:38
910208	7:24AM	6: 5PM LT	10:40
910209	7:24AM	6: 6PM LT	10:42
910210	7:23AM	6: 7PM LT	10:44
910211	7:22AM	6: 8PM LT	10:46
910212	7:21AM	6: 9PM LT	10:48
910213	7:20AM	6:10PM LT	10:50
910214	7:19AM	6:11PM LT	10:52
910215	7:18AM	6:12PM LT	10:54
910216	7:17AM	6:13PM LT	10:56
910217	7:16AM	6:13PM LT	10:58
910218	7:15AM	6:14PM LT	10:60
910219	7:14AM	6:15PM LT	11: 2
910220	7:13AM	6:16PM LT	11: 4
910221	7:11AM	6:17PM LT	11: 6
910222	7:10AM	6:18PM LT	11: 8
910223	7: 9AM	6:19PM LT	11:10
910224	7: 8AM	6:20PM LT	11:12
910225	7: 7AM	6:21PM LT	11:14
910226	7: 5AM	6:22PM LT	11:16
910227	7: 4AM	6:23PM LT	11:19
910228	7: 3AM	6:24PM LT	11:21
910229	7: 2AM	6:25PM LT	11:23

Tulsa

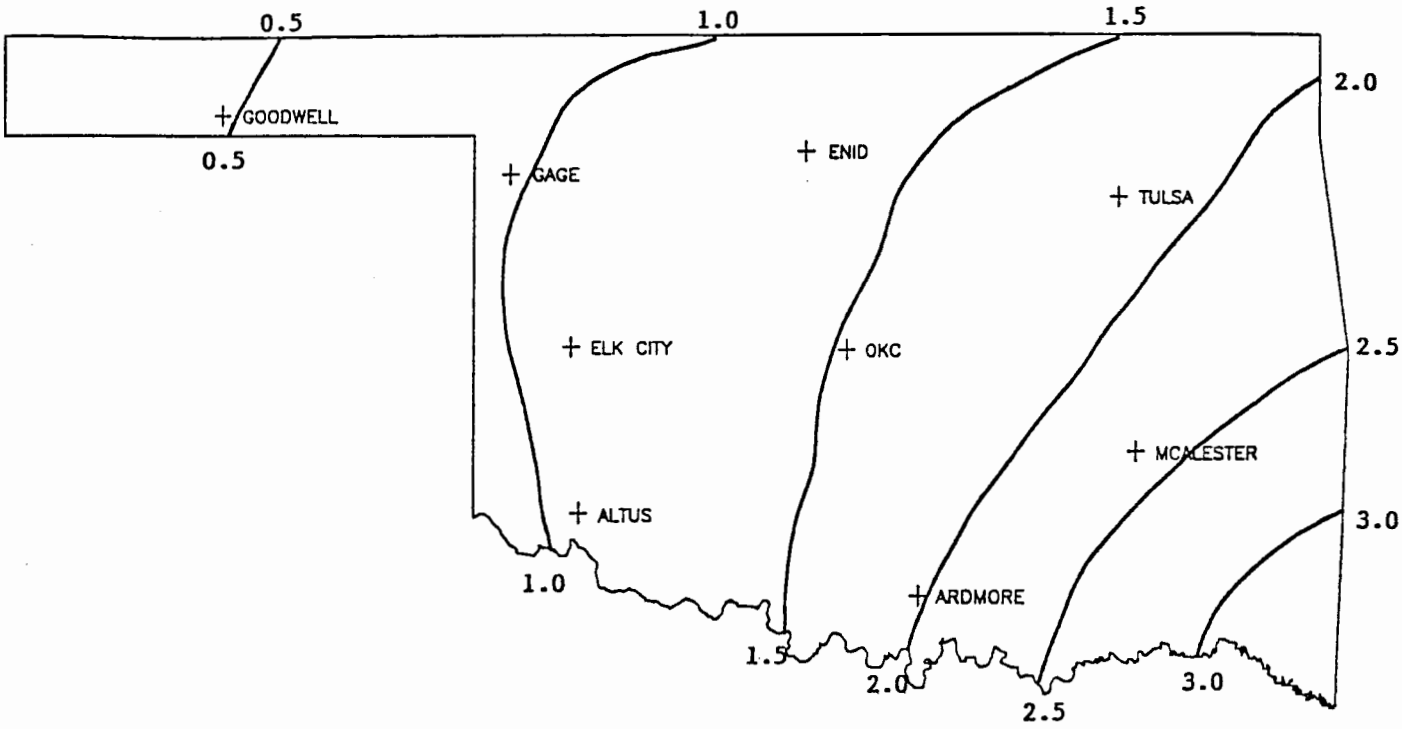
DATE	SUNRISE	SUNSET	DAYLIGHT
910201	7:25AM	5:49PM LT	10:25
910202	7:24AM	5:50PM LT	10:27
910203	7:23AM	5:51PM LT	10:28
910204	7:22AM	5:52PM LT	10:30
910205	7:22AM	5:54PM LT	10:32
910206	7:21AM	5:55PM LT	10:34
910207	7:20AM	5:56PM LT	10:36
910208	7:19AM	5:57PM LT	10:38
910209	7:18AM	5:58PM LT	10:40
910210	7:17AM	5:59PM LT	10:42
910211	7:16AM	6: 0PM LT	10:43
910212	7:15AM	6: 1PM LT	10:45
910213	7:14AM	6: 2PM LT	10:47
910214	7:13AM	6: 3PM LT	10:50
910215	7:12AM	6: 4PM LT	10:52
910216	7:11AM	6: 5PM LT	10:54
910217	7:10AM	6: 6PM LT	10:56
910218	7: 9AM	6: 7PM LT	10:58
910219	7: 8AM	6: 8PM LT	10:60
910220	7: 7AM	6: 9PM LT	11: 2
910221	7: 5AM	6:10PM LT	11: 4
910222	7: 4AM	6:11PM LT	11: 6
910223	7: 3AM	6:12PM LT	11: 8
910224	7: 2AM	6:13PM LT	11:11
910225	7: 1AM	6:13PM LT	11:13
910226	6:59AM	6:14PM LT	11:15
910227	6:58AM	6:15PM LT	11:17
910228	6:57AM	6:16PM LT	11:19
910229	6:56AM	6:17PM LT	11:22



30-YEAR MEAN FEBRUARY DAILY MAXIMUM TEMPERATURE



30-YEAR MEAN FEBRUARY DAILY MINIMUM TEMPERATURE



30-YEAR MEAN FEBRUARY PRECIPITATION

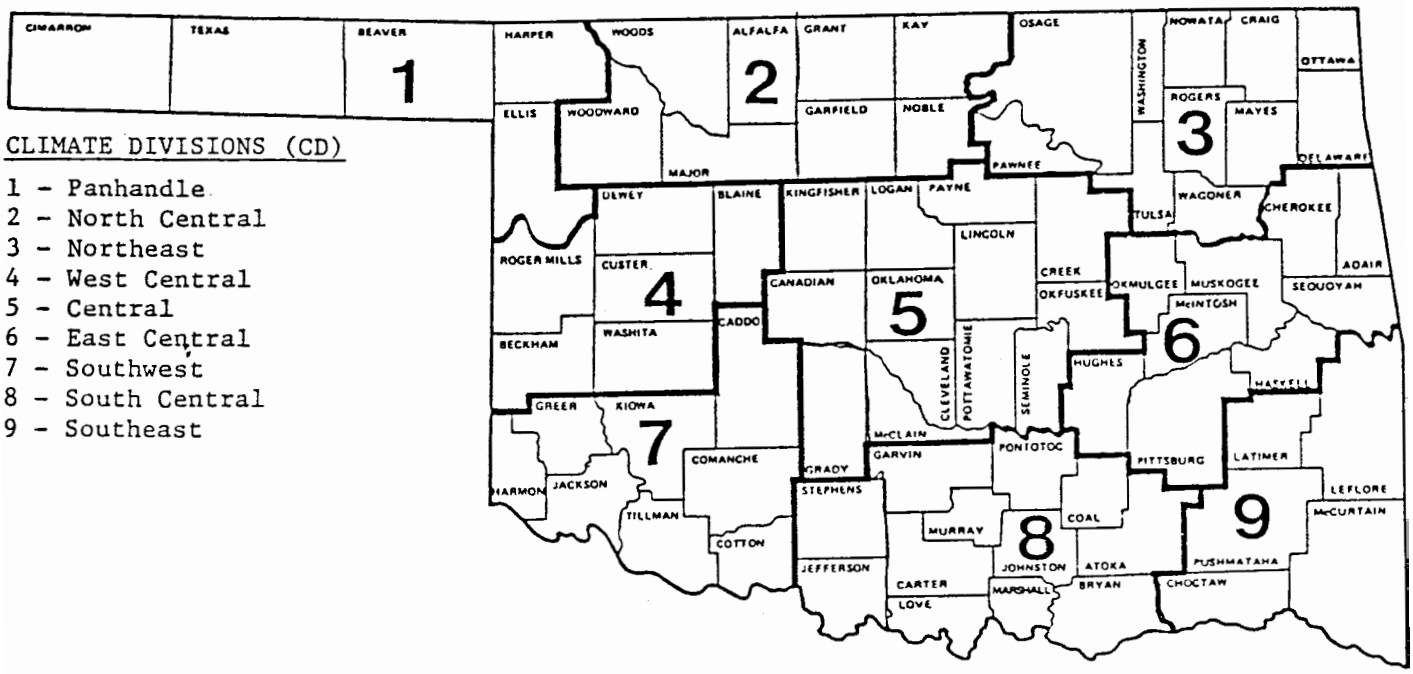
90-DAY NATIONAL WEATHER SERVICE OUTLOOK

(JANUARY-MARCH 1991)

Precipitation - Near Normal Statewide

Temperature - Above 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.

FEBRUARY 1991

CLIMATE CALENDAR

The data on this calendar are for Oklahoma City. Normal values are calculated for the period 1948-1988. Extremes are found for the period of record (1924-present).

Normal	1	Actual
47.9	max	
27.5	min	
.028	pcpn	
27	HDD	
0	CDD	
Highest Max		74-1986
Lowest Max		16-1985
Lowest Min		-1-1951
Highest Min		59-1986
Greatest pcpn		1.88-1983

Normal	2	Actual
45.9	max	
26.3	min	
.027	pcpn	
29	HDD	
0	CDD	
Highest Max		75-1934
Lowest Max		24-1985
Lowest Min		3-1951
Highest Min		58-1986
Greatest pcpn		.88-1943

Normal	3	Actual
48.2	max	
27.1	min	
.058	pcpn	
27	HDD	
0	CDD	
Highest Max		78-1934
Lowest Max		13-1989
Lowest Min		0-1989
Highest Min		58-1986
Greatest pcpn		1.13-1960

Normal	4	Actual
50.3	max	
29.2	min	
.071	pcpn	
25	HDD	
0	CDD	
Highest Max		77-1962
Lowest Max		15-1989
Lowest Min		2-1989
Highest Min		58-1927
Greatest pcpn		1.32-1964

Normal	5	Actual
48.0	max	
28.9	min	
.092	pcpn	
26	HDD	
0	CDD	
Highest Max		77-1948
Lowest Max		16-1982
Lowest Min		3-1989
Highest Min		57-1938
Greatest pcpn		1.05-1987

Normal	6	Actual
45.2	max	
26.3	min	
.023	pcpn	
29	HDD	
0	CDD	
Highest Max		72-1931
Lowest Max		23-1989
Lowest Min		6-1933
Highest Min		54-1931
Greatest pcpn		.60-1979

Normal	7	Actual
47.0	max	
25.0	min	
.056	pcpn	
29	HDD	
0	CDD	
Highest Max		76-1932
Lowest Max		6-1933
Lowest Min		-5-1933
Highest Min		47-1931
Greatest pcpn		.84-1980

Normal	8	Actual
48.6	max	
27.9	min	
.059	pcpn	
27	HDD	
0	CDD	
Highest Max		73-1938
Lowest Max		12-1929
Lowest Min		-5-1933
Highest Min		53-1966
Greatest pcpn		.62-1966

Normal	9	Actual
50.9	max	
27.8	min	
.036	pcpn	
25	HDD	
0	CDD	
Highest Max		84-1932
Lowest Max		17-1929
Lowest Min		-3-1979
Highest Min		51-1932
Greatest pcpn		.24-1959

Normal	10	Actual
52.8	max	
27.0	min	
.027	pcpn	
25	HDD	
0	CDD	
Highest Max		76-1954
Lowest Max		16-1933
Lowest Min		4-1929
Highest Min		52-1932
Greatest pcpn		.50-1953

Normal	11	Actual
48.6	max	
27.7	min	
.063	pcpn	
27	HDD	
0	CDD	
Highest Max		82-1962
Lowest Max		25-1988
Lowest Min		0-1981
Highest Min		58-1930
Greatest pcpn		1.12-1977

Normal	12	Actual
51.7	max	
28.4	min	
.078	pcpn	
25	HDD	
0	CDD	
Highest Max		84-1962
Lowest Max		17-1948
Lowest Min		7-1986
Highest Min		57-1938
Greatest pcpn		2.21-1978

Normal	13	Actual
53.5	max	
30.0	min	
.027	pcpn	
23	HDD	
0	CDD	
Highest Max		82-1962
Lowest Max		30-1933
Lowest Min		12-1936
Highest Min		50-1926
Greatest pcpn		.47-1989

Normal	14	Actual
53.1	max	
32.0	min	
.070	pcpn	
22	HDD	
0	CDD	
Highest Max		81-1954
Lowest Max		21-1936
Lowest Min		1-1936
Highest Min		54-1954
Greatest pcpn		.89-1938

Normal	15	Actual
51.2	max	
30.5	min	
.049	pcpn	
24	HDD	
0	CDD	
Highest Max		81-1954
Lowest Max		25-1936
Lowest Min		9-1936
Highest Min		53-1976
Greatest pcpn		.93-1938

Normal	16	Actual
52.0	max	
29.9	min	
.019	pcpn	
24	HDD	
0	CDD	
Highest Max		75-1959
Lowest Max		17-1979
Lowest Min		7-1979
Highest Min		48-1976
Greatest pcpn		2.16-1940

Normal	17	Actual
54.2	max	
30.0	min	
.028	pcpn	
23	HDD	
0	CDD	
Highest Max		78-1970
Lowest Max		17-1936
Lowest Min		8-1936
Highest Min		50-1926
Greatest pcpn		.88-1961

Normal	18	Actual
54.6	max	
32.3	min	
.041	pcpn	
21	HDD	
0	CDD	
Highest Max		78-1986
Lowest Max		24-1936
Lowest Min		-1-1978
Highest Min		53-1971
Greatest pcpn		.88-1946

Normal	19	Actual
54.1	max	
31.8	min	
.054	pcpn	
22	HDD	
0	CDD	
Highest Max		83-1986
Lowest Max		21-1929
Lowest Min		8-1978
Highest Min		48-1930
Greatest pcpn		.68-1954

Normal	20	Actual
54.8	max	
31.5	min	
.081	pcpn	
22	HDD	
0	CDD	
Highest Max		80-1976
Lowest Max		26-1929
Lowest Min		12-1939
Highest Min		51-1930
Greatest pcpn		1.31-1985

Normal	21	Actual
51.3	max	
30.4	min	
.083	pcpn	
24	HDD	
0	CDD	
Highest Max		84-1981
Lowest Max		28-1938
Lowest Min		9-1939
Highest Min		54-1930
Greatest pcpn		1.63-1971

Normal	22	Actual
54.5	max	
31.7	min	
.067	pcpn	
22	HDD	
0	CDD	
Highest Max		83-1982
Lowest Max		24-1968
Lowest Min		11-1963
Highest Min		56-1949
Greatest pcpn		1.15-1985

Normal	23	Actual
54.5	max	
33.0	min	
.032	pcpn	
21	HDD	
0	CDD	
Highest Max		80-1930
Lowest Max		31-1928
Lowest Min		11-1965
Highest Min		51-1930
Greatest pcpn		.81-1985

Normal	24	Actual
53.6	max	
31.9	min	
.052	pcpn	
22	HDD	
0	CDD	
Highest Max		81-1956
Lowest Max		19-1960
Lowest Min		7-1965
Highest Min		58-1930
Greatest pcpn		.94-1952

Normal	25	Actual
57.3	max	
33.9	min	
.016	pcpn	
19	HDD	
0	CDD	
Highest Max		82-1986
Lowest Max		29-1935
Lowest Min		10-1960
Highest Min		50-1951
Greatest pcpn		.74-1936

Normal	26	Actual
58.3	max	
34.0	min	
.032	pcpn	
19	HDD	
0	CDD	
Highest Max		78-1986
Lowest Max		21-1934
Lowest Min		11-1934
Highest Min		59-1981
Greatest pcpn		.50-1945

Normal	27	Actual
58.8	max	
34.3	min	
.070	pcpn	
18	HDD	
0	CDD	
Highest Max		81-1976
Lowest Max		25-1962
Lowest Min		13-1934
Highest Min		61-1981
Greatest pcpn		1.32-1966

Normal	28	Actual
57.5	max	
34.4	min	
.045	pcpn	
19	HDD	
0	CDD	
Highest Max		81-1972
Lowest Max		24-1962
Lowest Min		7-1962
Highest Min		53-1932
Greatest pcpn		.98-1990

FEBRUARY AVERAGES

Temperature : 41.1°F
Precipitation : 1.43"
Heating Degree Days: 688
Cooling Degree Days: 0