OKLAHOMA
MONTHLY SUMMARY
JANUARY 1991

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JANUARY 1991 OKLAHOMA SUMMARY

The bitter cold and ice with which 1990 ended continued into the first two weeks of 1991. The cold start to January, along with cold mornings late in the month, made January's average temperature of 34.7 degrees a tie for the 20th coolest on record, coming in at 2.2 degrees below normal. Precipitation totals for the month were slightly above average (.33 inch), with a state-averaged total of 1.47 inches. The majority of the precipitation fell during the first half of the month. A warm, dry pattern dominated the state during the latter half of the month.

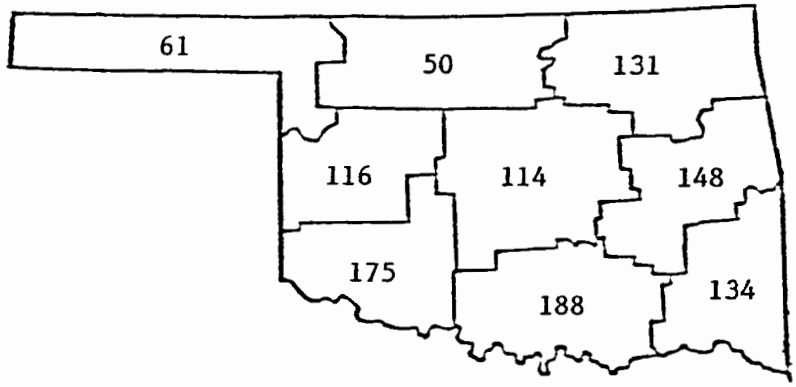
A series of cold fronts reinforced the cold air which had become entrenched during the latter part of December. The frontal systems also brought precipitation to most of the state, mainly in the form of freezing rain and drizzle. Ice coated roadways, contributing to numerous accidents and forcing the cancellation of classes at many schools statewide. Tulsa hospitals reported at least 300 people injured as a result of the icy conditions, many of them children injured in sledding accidents on ice-coated surfaces. Oklahomans enjoyed a brief respite from the icy conditions on the 7th and 8th, but another cold front brought more frozen precipitation to the state on the 9th.

A ridge of high pressure at upper levels began building off the coast of California on the 13th. The ridge helped to direct much of the cold air towards the Northeastern US, allowing temperatures in Oklahoma to moderate. Maximum temperatures pushed into the 60's across much of southern and eastern Oklahoma from the 13th through the 20th. The decreased frequency of frontal passages also allowed the state to dry out considerably during the period.

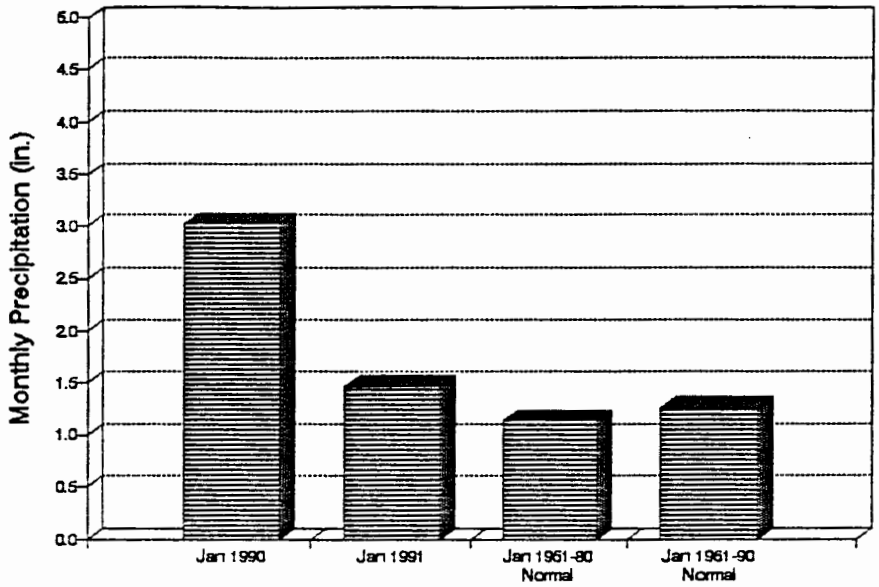
Cold air returned to Oklahoma behind a front which passed through the state on the 20th. Maximum temperatures dipped to the 30's and 40's across much of the state for several days in the wake of the front, but quickly warmed as sunshine returned. A stronger cold front pushed through the state on the 25th sending temperatures plummeting to the single digits in northwestern Oklahoma. The cold wave lasted nearly a week, but broke suddenly on the 31st. A minimum temperature of 15 degrees at Gage on the 31st, gave way to a maximum temperature of 66 degrees as westerly winds brought a return of warm air.

-Mark A. Shafer

January 1991 percent of normal precipitation.



Comparison of Monthly Precipitation
Statewide Average for Oklahoma



Comparison of Monthly Temperature
Statewide Average for Oklahoma

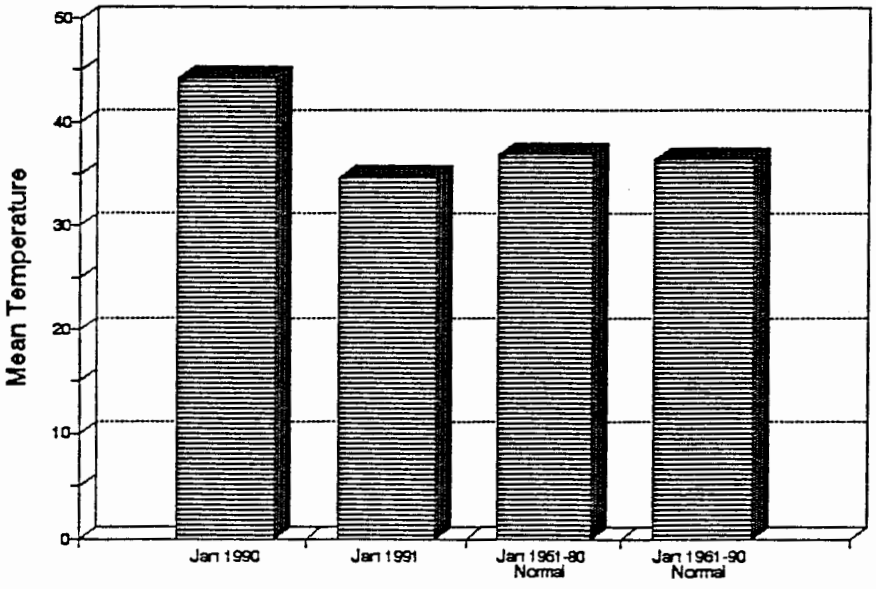


TABLE OF 1990/1991 COMPARISONS

STATION	January Temperatures (F) 1990	1991	January Precipitation (in.) 1990	1991
Arnett	39.8	29.4	.82	.31
Enid	43.9	32.3	1.99	.03
Mutual	40.1	30.4	2.61	.25
Tulsa	47.1	35.7	2.93	1.42
Elk City	44.7	34.0	1.90	.68
Oklahoma City	46.9	36.1	1.85	.70
McAlester	48.1	37.7	4.72	1.80
Altus Irr Sta	46.5	37.2	1.55	1.39
Durant	46.8	38.5	5.99	2.61
Ada	46.9	35.6	4.13	1.92
Antlers	47.8	38.8	5.90	2.51

EXTREMES

Variable	Station	Division	Observation	Date
Minimum temperature (F)	GSP Dam	2	0	1
Maximum temperature (F)	Hollis	7	67	28
Maximum 24-hour precipitation	Okmulgee	6	2.09"	15

JANUARY 1991 SUMMARY FOR NORTHWEST DIVISION (CD1)

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
ARNETT	332	1	29.4	31	-3.9	56.	29	5.	1	1102.5	119.5	.0	.0	.314	31	-.12	.28	10
BEAVER	593	1	28.6	30	-4.2	58.	14	2.	31	1092.0	94.0	.0	.0	.404	31	.02	.40	10
BOISE CITY 2 E	908	1	31.5	31	-2.6	63.	31	4.	1	1038.5	80.5	.0	.0	.682	31	.32	.33	14
BUFFALO	1243	1	33.0	31	-1.7	66.	31	5.	30	992.0	53.0	.0	.0	.300	31	-.23	.30	10
FARGO	3070	1	*****	0	*****	****	0	****	0	******	******	******	******	.301	31	-.16	.28	10
GAGE FAA APT	3407	1	32.8	31	-.5	66.	31	6.	30	997.0	14.0	.0	.0	.238	31	-.21	.23	10
GATE	3489	1	30.1	31	*****	59.	20	3.	30	1082.0	******	.0	******	.372	31	*****	.34	10
GOODWELL RES ST	3628	1	29.8	31	-3.7	63.	20	3.	1	1092.0	115.0	.0	.0	.316	31	.07	.31	10
GUYMON	3835	1	30.5	25	*****	65.	31	5.	30	862.0	******	.0	******	.366	26	*****	.35	10
HOOKER	4298	1	29.4	31	-3.8	58.	14	2.	1	1102.5	116.5	.0	.0	.154	31	-.26	.15	10
KENTON	4766	1	30.5	31	-3.9	63.	20	6.	30	1070.0	121.0	.0	.0	.289	31	-.01	.23	15
LAVERNE	5045	1	*****	0	*****	****	0	****	0	******	******	******	******	.225	31	-.40	.20	10
OPTIMA LAKE	6740	1	29.8	31	*****	58.	14	1.	1	1092.0	******	.0	******	.300	31	*****	.26	10
RANGE	7412	1	*****	0	*****	****	0	****	0	******	******	******	******	.415	31	*****	.40	10
REGNIER	7534	1	*****	0	*****	****	0	****	0	******	******	******	******	.276	31	.01	.15	10
TURPIN 4 SSE	9017	1	29.0	30	*****	57.	20	2.	1	1079.0	******	.0	******	.310	30	*****	.31	10

JANUARY 1991 SUMMARY FOR NORTH CENTRAL DIVISION (CD2)

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
ALVA	193	2	32.9	30	*****	65.	31	7.	30	964.0	******	.0	******	.290	30	*****	.28	10
VANCE AFB	302	2	*****	0	*****	****	0	****	0	******	******	******	******	.338	30	*****	.21	10
BILLINGS	755	2	30.5	31	*****	59.	20	9.	30	1068.5	******	.0	******	.534	31	-.38	.21	15
BLACKWELL 2E	818	2	31.4	31	*****	58.	31	9.	3	1042.5	******	.0	******	.387	31	*****	.15	10
BRAMAN	1075	2	*****	0	*****	****	0	****	0	******	******	******	******	.136	31	*****	.08	10
CHEROKEE	1724	2	31.2	31	-3.3	60.	31	7.	30	1046.5	100.5	.0	.0	.000	31	-.69	.00	31
ENID	2912	2	32.3	31	-3.1	59.	31	8.	3	1012.5	94.5	.0	.0	.030	31	-.88	.02	5
FT SUPPLY DAM	3304	2	28.7	31	-5.9	56.	29	4.	30	1124.0	182.0	.0	.0	.274	31	-.23	.23	10
FREEDOM	3358	2	30.8	31	*****	65.	31	6.	30	1059.5	******	.0	******	.250	31	*****	.25	10
GREAT SALT PLNS	3740	2	30.3	31	*****	59.	19	0.	1	1077.0	******	.0	******	.323	21	*****	.32	10
HARDY	3909	2	*****	0	*****	****	0	****	0	******	******	******	******	.766	31	*****	.33	9
HELENA 1 SSE	4019	2	29.2	31	*****	56.	19	1.	1	1110.0	******	.0	******	.386	31	-.32	.36	10
JEFFERSON	4573	2	31.3	31	-3.1	61.	31	7.	30	1045.5	96.5	.0	.0	.256	31	-.44	.21	9
LAMONT	5013	2	*****	0	*****	****	0	****	0	******	******	******	******	.283	31	*****	.16	10
MEDFORD	5768	2	*****	0	*****	****	0	****	0	******	******	******	******	.343	31	*****	.24	9
MORRISON	6065	2	*****	0	*****	****	0	****	0	******	******	******	******	.380	31	*****	.14	10
MUTUAL	6139	2	30.4	31	-3.7	56.	18	6.	1	1073.5	115.5	.0	.0	.254	31	-.25	.25	10
NEWKIRK	6278	2	31.6	31	-1.8	57.	31	9.	30	1036.0	56.0	.0	.0	.351	31	-.51	.19	15
ORIENTA	6751	2	*****	0	*****	****	0	****	0	******	******	******	******	.000	31	*****	.00	31
PERRY	7012	2	33.1	31	-3.2	58.	31	12.	30	987.5	97.5	.0	.0	.651	31	-.22	.45	15
PONCA CITY FAA	7201	2	33.3	31	.9	58.	31	12.	30	982.0	-29.0	.0	.0	.607	31	-.30	.26	10
RED ROCK 1 NNE	7505	2	*****	0	*****	****	0	****	0	******	******	******	******	.541	31	-.33	.25	15
RENFROW	7556	2	*****	0	*****	****	0	****	0	******	******	******	******	.801	31	.09	.50	6
WAYNOKA	9404	2	31.2	31	-4.0	64.	31	8.	30	1046.5	122.5	.0	.0	.280	31	-.32	.28	9
WOODWARD	9760	2	*****	0	*****	****	0	****	0	******	******	******	******	.325	31	*****	.27	10

JANUARY 1991 SUMMARY FOR NORTHEAST DIVISION (CD3)

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
BARNSDALL	535	3	30.4	31	*****	57.	18	11.	30	1073.5	******	.0	******	1.544	31	.34	.41	15
BARTLESVILLE 2W	548	3	32.5	31	-2.1	60.	18	10.	30	1008.0	66.0	.0	.0	1.432	31	.27	.40	15
BIXBY	782	3	32.3	31	-3.1	56.	18	6.	1	1013.0	95.0	.0	.0	.581	31	-.87	.42	6
BURBANK	1256	3	*****	0	*****	****	0	****	0	******	******	******	******	.832	31	*****	.45	10
CHELSEA 4 S	1717	3	*****	0	*****	****	0	****	0	******	******	******	******	2.720	31	*****	.61	10
CLAREMORE	1828	3	32.0	31	-2.5	58.	19	6.	1	1021.5	75.5	.0	.0	1.902	31	.52	.47	10
CLEVELAND 5 WSW	1902	3	33.3	28	*****	59.	18	12.	30	886.5	******	.0	******	1.400	28	*****	1.40	15
FORAKER	3250	3	*****	0	*****	****	0	****	0	******	******	******	******	.790	31	-.23	.54	15
HOMINY	4289	3	*****	0	*****	****	0	****	0	******	******	******	******	1.133	31	.06	.47	14
HULAH DAM	4393	3	31.0	20	*****	59.	22	10.	31	681.0	******	.0	******	1.542	29	*****	.80	10
JAY TOWER	4567	3	35.2	30	*****	56.	29	12.	22	895.0	******	.0	******	1.000	30	*****	.70	15
KANSAS 1 ESE	4672	3	34.1	31	*****	57.	18	13.	1	957.0	******	.0	******	3.026	31	*****	1.60	10
KEYSTONE DAM	4812	3	32.5	22	*****	59.	2	6.	1	716.0	******	.0	******	1.560	22	*****	.36	10
LENAPAH	5118	3	*****	0	*****	****	0	****	0	******	******	******	******	1.980	31	*****	.32	16
MANNFORD 6 NW	5522	3	33.8	31	*****	61.	13	11.	26	968.0	******	.0	******	1.513	31	.39	.51	15
MARAMEC	5540	3	*****	0	*****	****	0	****	0	******	******	******	******	1.043	31	-.01	.41	10
NOWATA	6485	3	31.8	31	-2.9	59.	31	11.	26	1029.0	90.0	.0	.0	2.170	31	.89	.70	10
ONETA 1 WNW	6713	3	*****	0	*****	****	0	****	0	******	******	******	******	1.720	31	*****	.52	10
PAWHUSKA	6935	3	31.7	31	-2.8	58.	18	10.	30	1032.0	86.0	.0	.0	1.184	31	.07	.41	9
PAWNEE	6940	3	*****	0	*****	****	0	****	0	******	******	******	******	1.210	31	.20	.56	10
PRYOR 6 N	7309	3	31.2	31	-3.7	57.	19	7.	1	1049.0	116.0	.0	.0	1.987	31	.47	.73	10
RALSTON	7390	3	33.5	31	*****	62.	18	10.	1	977.5	******	.0	******	.976	31	-.02	.42	11
RAMONA 4 N	7394	3	*****	0	*****	****	0	****	0	******	******	******	******	1.113	31	*****	.43	14
SKIATOOK	8258	3	*****	0	*****	****	0	****	0	******	******	******	******	1.360	31	.17	.29	15
SPAVINAW	8380	3	35.0	31	*****	59.	18	16.	21	931.0	******	.0	******	2.076	31	.55	.76	10
TULSA WSO APT	8992	3	35.7	31	.5	59.	18	15.	26	908.0	-16.0	.0	.0	1.416	31	.07	.30	10
UPPER SPAVINAW	9101	3	38.2	29	*****	60.	18	16.	22	776.5	******	.0	******	2.830	30	*****	1.00	10
VINITA 2 N	9203	3	31.2	31	-3.3	56.	18	14.	27	1048.0	102.0	.0	.0	2.190	31	.66	.50	10
WAGONER	9247	3	35.6	31	-1.3	58.	18	15.	26	910.5	39.5	.0	.0	1.652	31	-.07	.79	10
WANN	9298	3	*****	0	*****	****	0	****	0	******	******	******	******	1.440	31	*****	.44	10
WYNONA	9792	3	*****	0	*****	****	0	****	0	******	******	******	******	1.509	31	*****	.50	15

JANUARY 1991 SUMMARY FOR WEST CENTRAL DIVISION (CD4)

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
CANTON DAM	1445	4	29.9	21	*****	57.	18	2.	2	738.0	******	.0	******	.385	23	*****	.35	10
CHEYENNE	1738	4	*****	0	*****	****	0	****	0	******	******	******	******	.000	31	*****	.00	31
CLINTON	1909	4	34.8	31	-1.6	62.	31	10.	30	935.0	48.0	.0	.0	.920	31	.21	.77	10
COLONY	2039	4	*****	0	*****	****	0	****	0	******	******	******	******	.751	31	*****	.34	10
CORDELL	2125	4	*****	0	*****	****	0	****	0	******	******	******	******	.803	31	.10	.61	10
ELK CITY 1 E	2849	4	34.0	31	*****	60.	28	11.	30	962.5	******	.0	******	.682	31	.13	.52	10
ERICK 4 E	2944	4	34.1	31	-2.9	62.	31	11.	30	959.0	91.0	.0	.0	.682	31	.20	.68	10
GEARY	3497	4	33.1	31	-3.2	58.	18	12.	30	988.0	98.0	.0	.0	.000	31	-.66	.00	31
HAMMON 1 NNE	3871	4	30.8	31	-4.9	57.	29	7.	30	1060.0	152.0	.0	.0	.580	31	.07	.50	10
LEEDEY	5090	4	*****	0	*****	****	0	****	0	******	******	******	******	.470	31	.01	.41	10
MACKIE 4 NNW	5463	4	*****	0	*****	****	0	****	0	******	******	******	******	.440	31	*****	.37	10
MORAVIA 2 NNE	6035	4	*****	0	*****	****	0	****	0	******	******	******	******	.842	31	.34	.75	10
OKEENE	6629	4	32.6	31	-3.8	58.	31	9.	30	1004.0	117.0	.0	.0	.351	31	-.24	.30	10
RETROP	7565	4	*****	0	*****	****	0	****	0	******	******	******	******	.660	31	*****	.63	10
REYDON	7579	4	33.8	31	*****	62.	31	8.	30	966.5	******	.0	******	.141	31	-.25	.07	4
SAYRE	7952	4	*****	0	*****	****	0	****	0	******	******	******	******	.631	31	.21	.54	10
SWEETWATER 2 E	8652	4	*****	0	*****	****	0	****	0	******	******	******	******	1.000	31	*****	.75	9
TALOGA	8708	4	32.7	31	-2.4	59.	31	8.	30	1002.0	75.0	.0	.0	.424	31	-.13	.33	10
THOMAS	8815	4	*****	0	*****	****	0	****	0	******	******	******	******	.340	31	*****	.18	9
VICI	9172	4	*****	0	*****	****	0	****	0	******	******	******	******	.453	31	*****	.21	10
WATONGA	9364	4	35.4	31	*****	58.	31	11.	30	918.5	******	.0	******	.687	31	-.08	.55	10
WEATHERFORD	9422	4	32.6	31	-4.0	58.	29	7.	1	1004.0	124.0	.0	.0	.864	31	.22	.66	10

JANUARY 1991 SUMMARY FOR CENTRAL DIVISION (CD5)

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 24-HR DAY
AMBER	200	5	*****	0	*****	****	0	****	0	******	******	******	******	1.420	31	*****	.53	15
ARCADIA	288	5	*****	0	*****	****	0	****	0	******	******	******	******	.730	31	*****	.35	10
TINKER AFB	325	5	*****	0	*****	****	0	****	0	******	******	******	******	1.057	29	*****	.42	10
BLANCHARD 2 SSW	830	5	35.2	31	*****	59.	13	14.	30	924.0	******	.0	******	1.296	31	*****	.66	10
BRISTOW	1144	5	34.4	31	-2.3	59.	18	13.	26	947.5	70.5	.0	.0	1.294	31	.14	.36	6
CHANDLER	1684	5	34.6	28	*****	59.	13	13.	26	851.5	******	.0	******	.603	31	-.55	.40	15
CHICKASHA EX ST	1750	5	34.5	31	-3.3	57.	13	15.	31	944.0	101.0	.0	.0	1.490	31	.59	.67	10
COX CITY 1 E	2196	5	*****	0	*****	****	0	****	0	******	******	******	******	2.133	31	*****	.80	10
CRESCENT	2242	5	*****	0	*****	****	0	****	0	******	******	******	******	.770	31	*****	.45	10
CUSHING	2318	5	32.1	31	-2.7	59.	14	4.	1	1020.5	84.5	.0	.0	.842	31	-.20	.84	15
EL RENO 1 N	2818	5	33.7	31	-2.5	56.	31	12.	30	970.5	77.5	.0	.0	.530	31	-.30	.32	10
GUTHRIE	3821	5	35.2	31	-1.0	61.	13	13.	30	925.0	32.0	.0	.0	1.201	31	.29	.40	15
HENNESSEY 2 SE	4055	5	32.6	31	-2.9	58.	31	10.	30	1004.5	89.5	.0	.0	.220	31	-.49	.11	10
INGALLS	4489	5	*****	0	*****	****	0	****	0	******	******	******	******	1.613	31	*****	.72	15
KINGFISHER 2 SE	4861	5	33.2	31	-2.8	58.	31	11.	30	985.5	86.5	.0	.0	.612	31	-.22	.44	10
KONAWA	4915	5	*****	0	*****	****	0	****	0	******	******	******	******	1.672	31	.34	.52	15
MARSHALL	5589	5	*****	0	*****	****	0	****	0	******	******	******	******	.520	31	-.24	.40	10
MEEKER 4 W	5779	5	34.3	31	-2.2	57.	17	13.	26	951.5	67.5	.0	.0	1.970	31	.90	.73	5
MULHALL	6110	5	*****	0	*****	****	0	****	0	******	******	******	******	.802	31	*****	.50	11
NORMAN 3 S	6386	5	36.7	31	*****	60.	13	11.	30	876.0	******	.0	******	1.736	31	.61	.74	15
OILTON 2 SE	6616	5	*****	0	*****	****	0	****	0	******	******	******	******	.960	31	*****	.42	5
OKEMAH	6638	5	35.3	31	-2.6	57.	17	15.	26	920.5	80.5	.0	.0	1.822	31	.44	.70	10
OKLAHOMA CITY WS	6661	5	36.1	31	.2	59.	13	16.	30	896.0	-6.0	.0	.0	.704	31	-.26	.16	10
PERKINS	7003	5	*****	0	*****	****	0	****	0	******	******	******	******	.820	31	-.30	.58	15
PIEDMONT	7068	5	*****	0	*****	****	0	****	0	******	******	******	******	.810	31	*****	.40	15
PRAGUE	7264	5	*****	0	*****	****	0	****	0	******	******	******	******	1.373	28	*****	.60	15
PURCELL 5 SW	7327	5	35.3	31	-1.6	62.	13	13.	31	922.0	51.0	.0	.0	1.556	31	.49	.60	10
SEMINOLE	8042	5	36.1	31	-3.0	60.	14	16.	26	894.5	91.5	.0	.0	2.321	31	1.02	.51	10
SHAWNEE	8110	5	*****	0	*****	****	0	****	0	******	******	******	******	1.301	31	.08	.57	15
STELLA	8479	5	*****	0	*****	****	0	****	0	******	******	******	******	1.330	31	*****	.41	15
STILLWATER 2 W	8501	5	33.3	31	-2.0	66.	14	11.	1	981.5	60.5	.0	.0	.977	31	.08	.28	9
STROUD 1 N	8563	5	*****	0	*****	****	0	****	0	******	******	******	******	1.203	31	*****	.30	15
TECUMSEH	8751	5	*****	0	*****	****	0	****	0	******	******	******	******	1.610	31	*****	.50	15
TROUSDALE	8960	5	*****	0	*****	****	0	****	0	******	******	******	******	1.130	31	*****	.53	10
UNION CITY 1 SE	9086	5	*****	0	*****	****	0	****	0	******	******	******	******	.640	31	-.45	.39	10
WELTY 1 SSE	9479	5	*****	0	*****	****	0	****	0	******	******	******	******	1.613	31	*****	.40	15
WEWOKA	9575	5	*****	0	*****	****	0	****	0	******	******	******	******	1.722	31	.30	.63	10

JANUARY 1991 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	******	******	******	******	2.577	31	*****	.65	19
BEGGS	631	6	*****	0	*****	****	0	****	0	******	******	******	******	1.390	31	*****	.55	5
BOYNTON	1027	6	*****	0	*****	****	0	****	0	******	******	******	******	2.235	31	*****	.85	10
CALVIN	1391	6	*****	0	*****	****	0	****	0	******	******	******	******	1.655	31	.26	.62	9
CHECOTAH	1711	6	*****	0	*****	****	0	****	0	******	******	******	******	2.443	31	.95	1.00	10
CLAYTON 11 WNW	1858	6	*****	0	*****	****	0	****	0	******	******	******	******	2.720	31	*****	.85	6
DEWAR 2 NE	2485	6	*****	0	*****	****	0	****	0	******	******	******	******	1.500	31	.09	.67	10
DUSTIN	2690	6	*****	0	*****	****	0	****	0	******	******	******	******	2.080	31	*****	.70	10
EUFAULA	2993	6	36.8	31	*****	58.	13	19.	31	875.5	******	.0	******	2.583	31	1.05	.80	10
HANNA	3884	6	35.8	31	*****	58.	13	16.	31	904.0	******	.0	******	2.115	31	.65	.79	10
HARTSHORNE	3946	6	*****	0	*****	****	0	****	0	******	******	******	******	1.983	31	*****	.49	15
HASKELL	3956	6	*****	0	*****	****	0	****	0	******	******	******	******	2.462	31	.83	.72	10
LAKE EUFAULA	4975	6	35.5	30	*****	61.	15	18.	27	884.0	******	.0	******	2.542	31	*****	.63	10
LYONS 2 N	5437	6	*****	0	*****	****	0	****	0	******	******	******	******	3.030	31	1.31	1.79	15
MARBLE CITY	5546	6	*****	0	*****	****	0	****	0	******	******	******	******	3.085	31	*****	.74	10
MCALESTER FAA	5664	6	37.7	31	-.4	58.	13	16.	1	845.5	11.5	.0	.0	1.804	31	.18	.56	15
MCCURTAIN 1 SE	5693	6	37.9	31	*****	59.	14	16.	31	839.0	******	.0	******	2.393	31	.51	.75	6
MUSKOGEE	6130	6	35.0	31	-2.7	57.	18	17.	26	930.5	84.5	.0	.0	2.444	31	.81	1.02	9
OKMULGEE W W	6670	6	32.7	31	-4.4	57.	19	5.	1	1001.5	145.5	.0	.0	2.500	31	.87	2.09	15
OKTAHA 2 NE	6678	6	*****	0	*****	****	0	****	0	******	******	******	******	2.211	31	*****	1.01	10
QUINTON	7372	6	*****	0	*****	****	0	****	0	******	******	******	******	2.108	31	.49	.49	19
SALLISAW 2 NE	7862	6	37.3	31	-1.1	55.	19	15.	22	858.0	33.0	.0	.0	1.902	31	.12	1.00	15
SCIPIO	7979	6	*****	0	*****	****	0	****	0	******	******	******	******	1.640	31	*****	.55	19
SCRAPER	7993	6	*****	0	*****	****	0	****	0	******	******	******	******	3.200	31	*****	1.03	10
SHORT	8170	6	*****	0	*****	****	0	****	0	******	******	******	******	2.611	31	*****	.78	15
STILWELL 1 NE	8506	6	35.1	31	*****	54.	18	13.	22	927.5	******	.0	******	2.992	31	1.03	.85	10
TAHLEQUAH	8677	6	35.1	31	-1.9	58.	18	12.	26	925.5	57.5	.0	.0	2.791	31	1.01	.92	10
WEBBERS FALLS	9445	6	34.2	31	-1.7	58.	14	7.	1	955.5	53.5	.0	.0	2.582	31	.95	.63	10
WESTVILLE	9523	6	*****	0	*****	****	0	****	0	******	******	******	******	2.673	31	*****	.81	10
WETUMKA 3 NE	9571	6	*****	0	*****	****	0	****	0	******	******	******	******	2.661	31	1.24	1.10	6

JANUARY 1991 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	37.3	31	-2.0	66.	28	16.	30	857.5	60.5	.0	.0	1.390	31	.61	.95	10
ALTUS DAM	184	7	34.3	31	*****	63.	29	7.	1	951.5	******	.0	******	1.350	31	.73	.73	10
APACHE	260	7	*****	0	*****	****	0	****	0	******	******	******	******	1.690	31	*****	.70	10
ALTUS AFB	447	7	*****	0	*****	****	0	****	0	******	******	******	******	1.402	30	*****	1.02	10
CARNEGIE 2 ENE	1504	7	35.3	31	-2.0	58.	31	13.	31	921.5	62.5	.0	.0	.790	31	.01	.50	10
CHATTANOOGA	1706	7	37.5	31	-1.5	62.	13	17.	31	851.0	45.0	.0	.0	1.711	31	.80	.80	10
DUNCAN 12 W	2668	7	*****	0	*****	****	0	****	0	******	******	******	******	2.010	31	*****	1.00	10
FREDERICK	3353	7	36.7	31	-3.9	63.	14	13.	1	878.5	122.5	.0	.0	1.840	31	.99	.92	9
GRANDFIELD 4 NW	3709	7	*****	0	*****	****	0	****	0	******	******	******	******	2.170	31	1.09	1.40	10
HOBART FAA APT	4204	7	35.8	31	-.4	61.	28	16.	30	904.0	11.0	.0	.0	.735	31	.13	.50	10
HOLLIS	4249	7	36.2	31	-2.7	67.	28	14.	30	894.0	85.0	.0	.0	1.291	31	.76	1.20	10
LAWTON	5063	7	35.2	31	-3.6	60.	14	9.	1	922.5	110.5	.0	.0	2.070	31	1.00	.85	9
FORT SILL	5068	7	36.2	31	*****	60.	13	19.	26	892.5	******	.0	******	1.447	31	.38	.61	9
LOOKEBA 2 ENE	5329	7	*****	0	*****	****	0	****	0	******	******	******	******	.680	31	*****	.43	10
MANGUM RES STA	5509	7	36.2	31	-2.4	66.	28	14.	30	891.5	73.5	.0	.0	1.310	31	.68	.94	10
RANDLETT 9 E	7403	7	*****	0	*****	****	0	****	0	******	******	******	******	.630	31	*****	.63	18
ROOSEVELT	7727	7	*****	0	*****	****	0	****	0	******	******	******	******	.810	31	.13	.70	10
SEDAN	8016	7	*****	0	*****	****	0	****	0	******	******	******	******	.983	31	*****	.62	10
VINSON 3 WNW	9212	7	*****	0	*****	****	0	****	0	******	******	******	******	1.011	31	.54	.92	10
WALTERS	9278	7	38.0	31	-1.9	63.	13	17.	31	836.0	58.0	.0	.0	2.800	31	1.60	1.10	10
WICHITA MT WLR	9629	7	33.6	30	-4.2	60.	17	5.	1	942.0	99.0	.0	.0	.251	30	*****	.25	10
WILLOW	9668	7	*****	0	*****	****	0	****	0	******	******	******	******	1.006	31	*****	.88	10

JANUARY 1991 SUMMARY FOR SOUTH CENTRAL DIVISION (CD8)

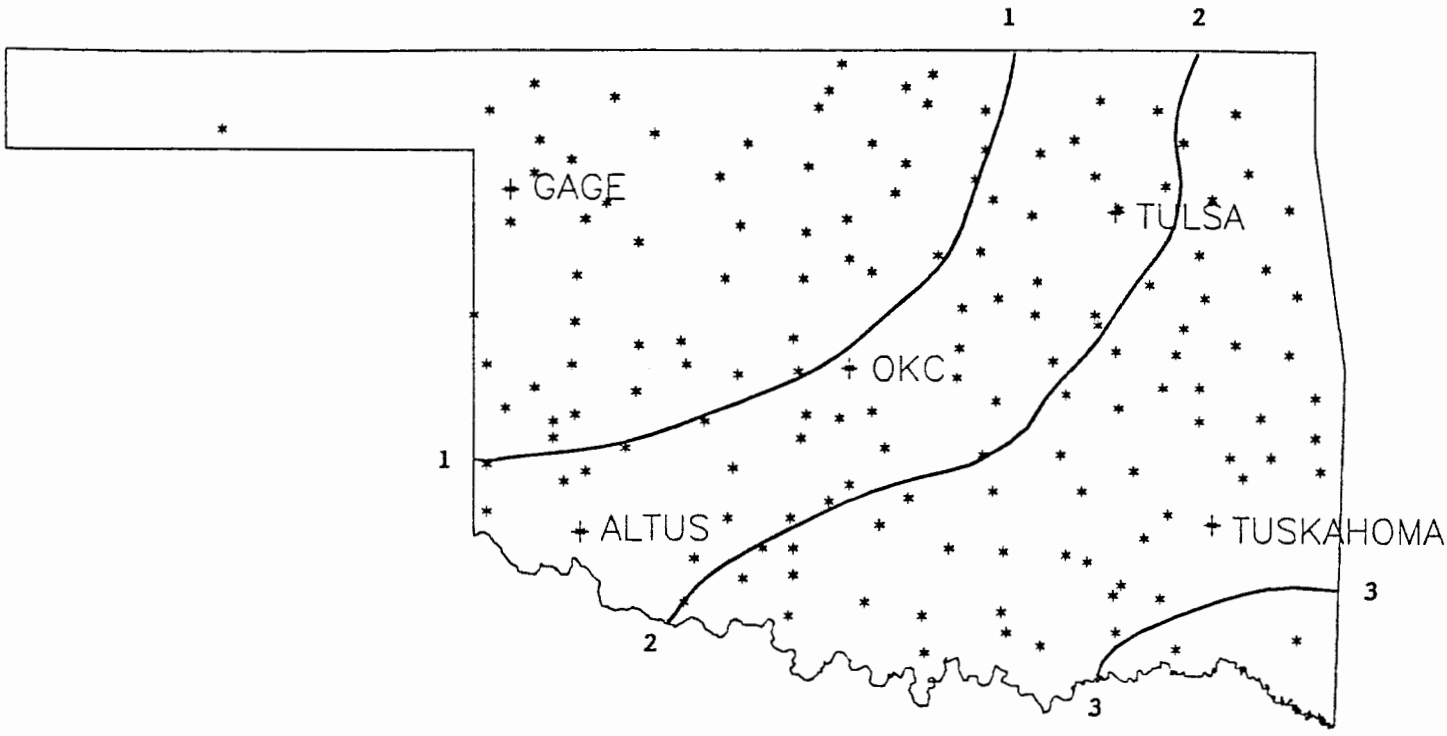
NAME	ID	CD	MEAN TEMP	NUM OBS	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
ADA	17	8	35.7	31	-3.9	62.	13	7.	1	907.0	120.0	.0	.0	1.920	31	.56	.68	10
ARDMORE	292	8	39.1	31	-2.9	63.	13	8.	1	801.5	103.5	.0	.0	2.401	31	1.05	.73	10
ATOKA DAM	394	8	36.8	30	*****	60.	14	12.	1	844.5	******	.0	******	2.633	31	*****	.61	15
BOKCHITO	917	8	*****	0	*****	****	0	****	0	******	******	******	******	3.350	31	*****	.85	19
CANEY	1437	8	41.2	24	*****	59.	13	20.	31	571.0	******	.0	******	1.400	24	*****	.50	18
CENTRAHOMA	1648	8	*****	0	*****	****	0	****	0	******	******	******	******	3.250	31	*****	.85	15
CHICKASAW NRA	1745	8	36.0	31	*****	64.	14	11.	1	897.5	******	.0	******	2.482	31	*****	.70	10
COLEMAN	2011	8	*****	0	*****	****	0	****	0	******	******	******	******	3.320	31	*****	.75	10
COMANCHE	2054	8	*****	0	*****	****	0	****	0	******	******	******	******	2.260	31	*****	.85	10
DAISY 4 ENE	2354	8	*****	0	*****	****	0	****	0	******	******	******	******	2.335	31	.88	.58	15
DUNCAN	2660	8	36.1	31	-3.8	62.	14	9.	1	895.5	117.5	.0	.0	2.340	31	1.36	.93	10
DURANT USDA	2678	8	38.1	31	*****	63.	30	10.	1	833.0	******	.0	******	2.610	31	.87	.60	10
ELMORE CITY	2872	8	*****	0	*****	****	0	****	0	******	******	******	******	2.506	31	*****	.80	10
FARRIS 3 WNW	3083	8	*****	0	*****	****	0	****	0	******	******	******	******	2.890	31	*****	.68	19
GRADY	3688	8	*****	0	*****	****	0	****	0	******	******	******	******	2.561	31	*****	.74	10
HEALDTON	4001	8	38.8	31	*****	63.	13	17.	31	811.5	******	.0	******	2.471	31	1.13	.80	10
KETCHUM RANCH	4780	8	*****	0	*****	****	0	****	0	******	******	******	******	2.040	31	*****	.78	11
KINGSTON	4865	8	*****	0	*****	****	0	****	0	******	******	******	******	3.562	31	1.85	.75	18
LEHIGH	5108	8	*****	0	*****	****	0	****	0	******	******	******	******	2.460	31	*****	.60	15
LINDSAY 2 W	5216	8	36.1	31	*****	60.	31	15.	31	894.5	******	.0	******	1.639	31	.51	.78	10
LOCO 6 SE	5247	8	*****	0	*****	****	0	****	0	******	******	******	******	2.333	25	*****	.85	10
MADILL	5468	8	39.7	31	-1.3	63.	29	18.	31	783.5	39.5	.0	.0	3.231	31	1.54	.85	17
MARIETTA	5563	8	40.2	31	-1.0	64.	13	21.	31	767.5	29.5	.0	.0	2.671	31	1.19	.74	18
MARLOW 1 WSW	5581	8	37.4	31	*****	62.	13	15.	26	854.5	******	.0	******	1.693	31	.79	.88	10
MCGEE CREEK DAM	5713	8	36.9	31	*****	60.	14	9.	1	871.0	******	.0	******	2.842	31	*****	.55	10
PAULS VALLEY	6926	8	36.6	31	-2.6	64.	13	15.	31	879.5	79.5	.0	.0	2.722	31	1.41	.75	7
PONTOTOC	7214	8	*****	0	*****	****	0	****	0	******	******	******	******	2.300	31	.97	.51	9
TISHOMINGO NWLR	8884	8	38.0	26	*****	63.	29	15.	31	701.0	******	.0	******	3.470	31	1.94	.73	10
TUSSY	9032	8	*****	0	*****	****	0	****	0	******	******	******	******	2.140	31	*****	.71	9
WAURIKA	9395	8	40.2	31	-.8	65.	13	18.	31	770.0	26.0	.0	.0	2.450	31	1.32	.91	10

JANUARY 1991 SUMMARY FOR SOUTHEAST DIVISION (CD9)

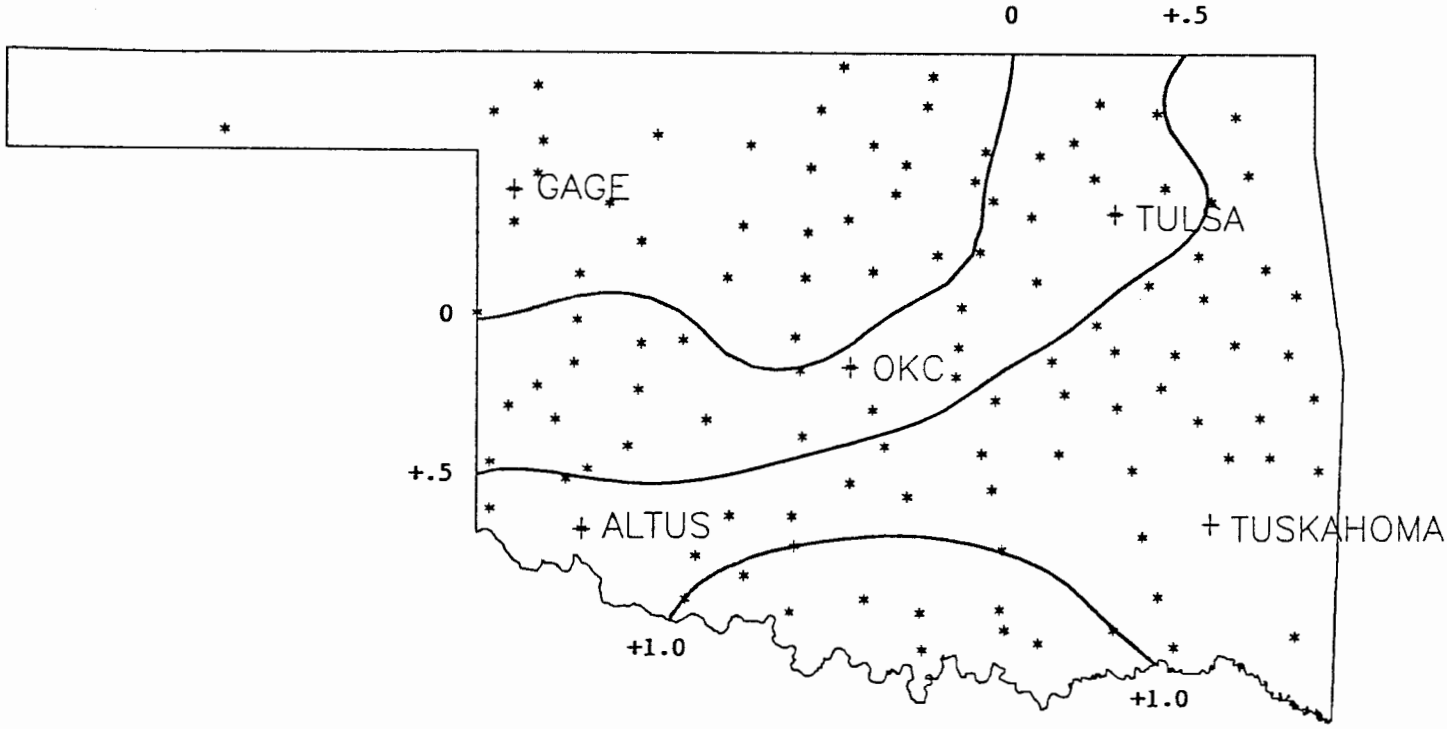
NAME	ID	CD	MEAN TEMP	NUM OBS	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
ANTLERS	256	9	39.0	31	-1.2	60.	13	17.	31	806.0	37.0	.0	.0	2.510	31	.31	.48	6
BATTIEST 1 SSW	567	9	37.7	30	*****	57.	14	14.	22	819.5	******	.0	******	4.551	30	*****	.87	10
BEAR MT TWR	584	9	39.7	21	*****	57.	15	13.	22	530.5	******	.0	******	4.050	28	*****	1.34	7
BENGAL	670	9	*****	0	*****	****	0	****	0	******	******	******	******	2.950	31	*****	1.37	15
BOSWELL 4 NNW	980	9	42.4	31	*****	64.	13	22.	31	702.0	******	.0	******	3.100	31	1.00	.72	10
BROKEN BOW 1 N	1162	9	*****	0	*****	****	0	****	0	******	******	******	******	3.301	31	.27	1.21	6
BROKEN BOW DAM	1168	9	39.3	31	*****	60.	17	13.	1	798.0	******	.0	******	3.850	31	*****	.83	10
CARNASAW TWR	1499	9	*****	0	*****	****	0	****	0	******	******	******	******	3.530	31	.36	1.20	7
CARTER TWR	1544	9	*****	0	*****	****	0	****	0	******	******	******	******	4.090	31	1.40	1.06	7
FANSHAWE	3065	9	*****	0	*****	****	0	****	0	******	******	******	******	3.190	31	1.31	.93	15
FLAGPOLE TWR	3169	9	*****	0	*****	****	0	****	0	******	******	******	******	2.960	31	*****	1.23	7
HEAVENER 1 SE	4008	9	*****	0	*****	****	0	****	0	******	******	******	******	2.772	31	.52	.68	7
HEE MT TWR	4017	9	*****	0	*****	****	0	****	0	******	******	******	******	4.183	31	*****	1.01	10
HUGO	4384	9	40.2	31	-2.1	60.	14	20.	1	770.0	66.0	.0	.0	3.676	31	1.46	1.02	10
POTEAU W W	7254	9	35.9	31	*****	58.	14	9.	1	901.0	******	.0	******	2.813	31	*****	.91	6
SOBAL TOWER	8305	9	*****	0	*****	****	0	****	0	******	******	******	******	3.950	31	1.61	1.44	7
SMITHVILLE 1 W	8285	9	37.9	31	*****	57.	24	13.	22	839.0	******	.0	******	3.703	31	*****	1.10	15
SPIRO	8416	9	*****	0	*****	****	0	****	0	******	******	******	******	2.561	31	.74	.57	15
TUSKAHOMA	9023	9	39.0	31	*****	59.	24	14.	31	805.5	******	.0	******	3.015	31	*****	.65	10
VALLIANT 3 W	9118	9	*****	0	*****	****	0	****	0	******	******	******	******	3.426	31	.91	.87	7
WILBURTON 9 ENE	9634	9	37.4	31	-1.9	58.	31	14.	31	857.0	60.0	.0	.0	2.306	31	.40	.60	14

JANUARY 1991 CLIMATE DIVISION SUMMARY

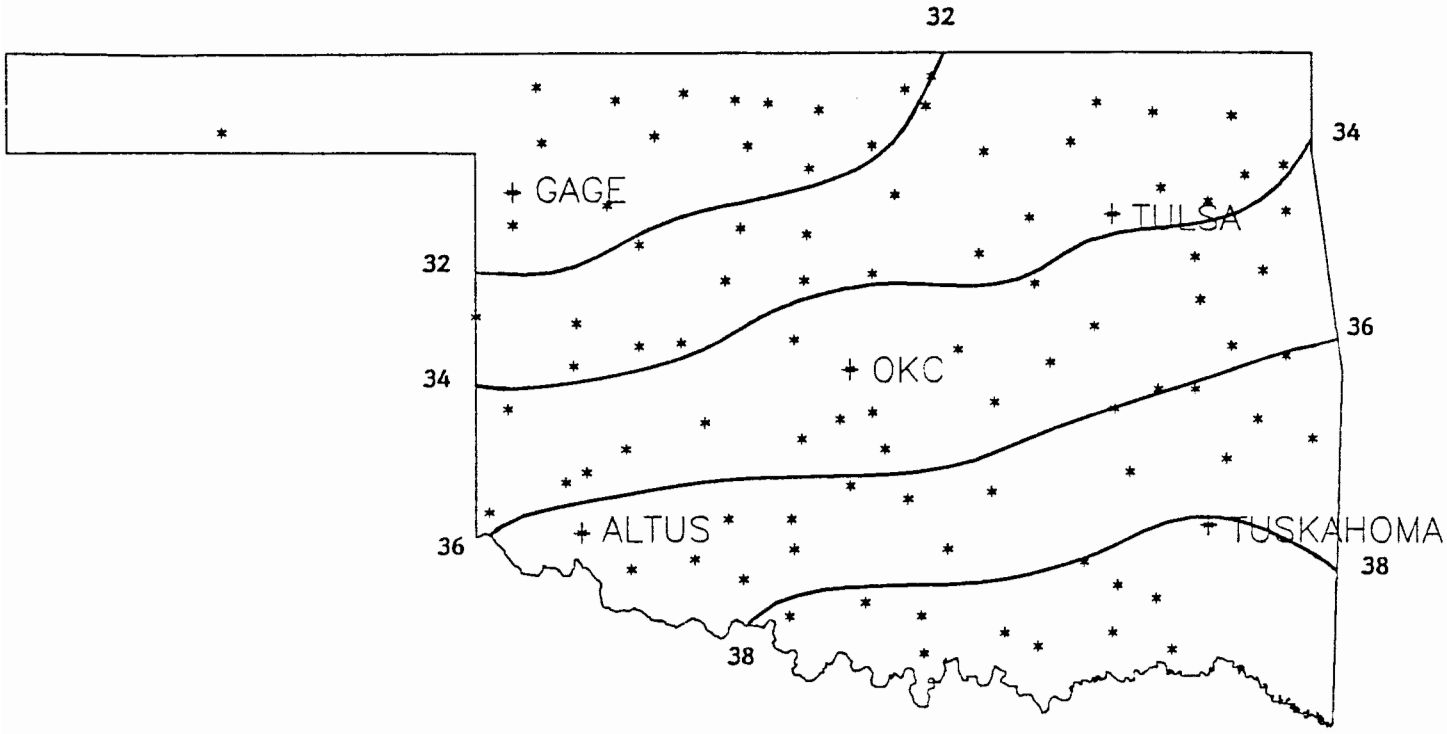
CLIMATE DIV	MEAN TEMP	NUM STA	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEGREE DAYS	DEV FROM NORM	COOL DEGREE DAYS	DEV FROM NORM	TOT PPT	NUM STA	DEV FROM NORM	MAX 24-HR	DAY
1	30.4	11	-3.3	66.0	31	1.0	1	1067.2	95.6	.0	.0	.33	14	-.08	.40	10
2	31.2	15	-3.3	65.0	31	.0	1	1045.0	98.6	.0	.0	.36	22	-.38	.50	6
3	33.1	15	-1.7	62.0	18	6.0	1	988.1	50.5	.0	.0	1.56	26	.30	1.60	10
4	33.4	10	-2.7	62.0	31	2.0	2	980.0	85.2	.0	.0	.56	21	-.01	.77	10
5	34.5	15	-2.0	66.0	14	4.0	1	944.2	63.3	.0	.0	1.20	35	.13	.84	15
6	35.7	11	-1.6	61.0	15	5.0	1	904.2	49.1	.0	.0	2.38	30	.76	2.09	15
7	36.0	12	-2.6	67.0	28	5.0	1	895.2	78.1	.0	.0	1.39	20	.57	1.40	10
8	37.7	14	-2.8	65.0	13	7.0	1	843.6	88.1	.0	.0	2.61	28	1.21	.93	10
9	38.7	9	-1.9	64.0	13	9.0	1	810.9	54.2	.0	.0	3.26	19	.89	1.44	7



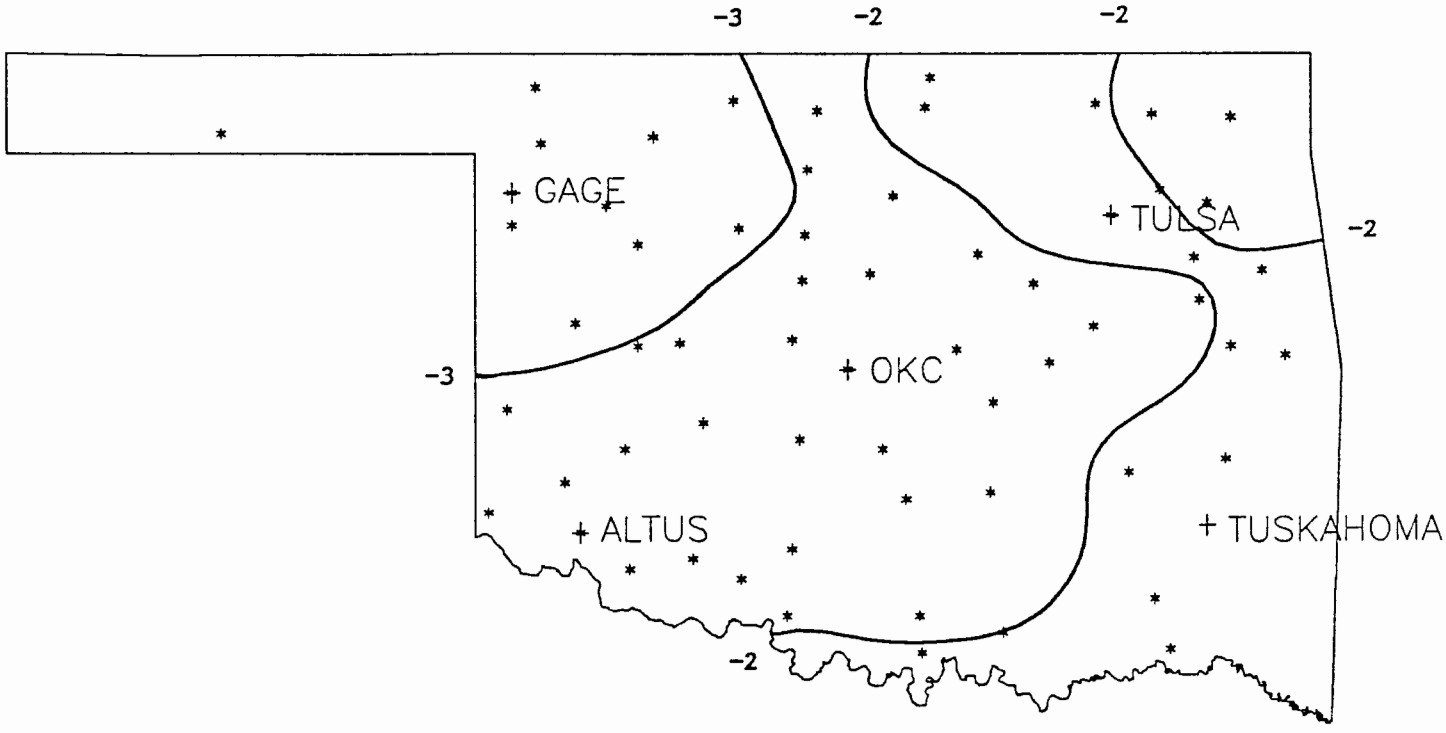
JANUARY 1991 TOTAL PRECIPITATION
(Inches)



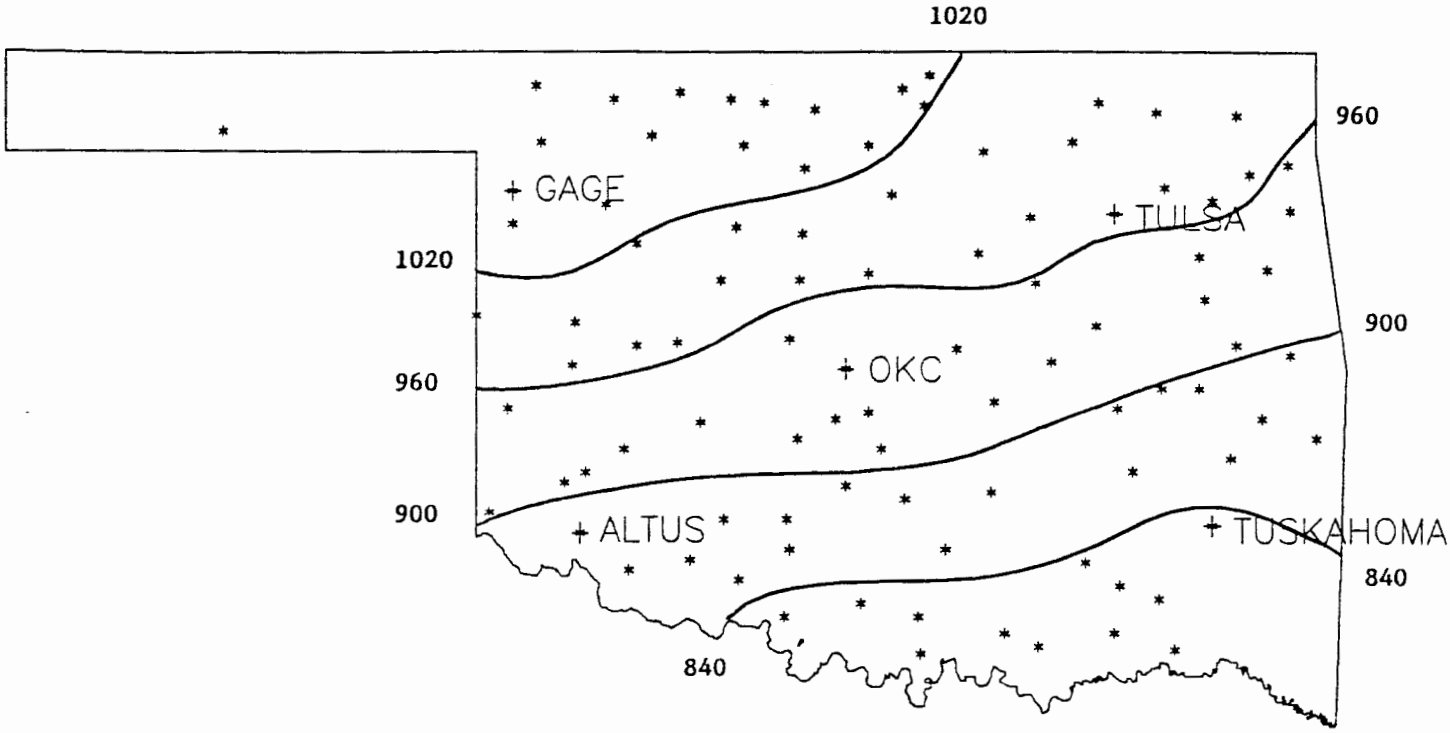
JANUARY 1991 DEVIATION FROM NORMAL PRECIPITATION
(Inches)



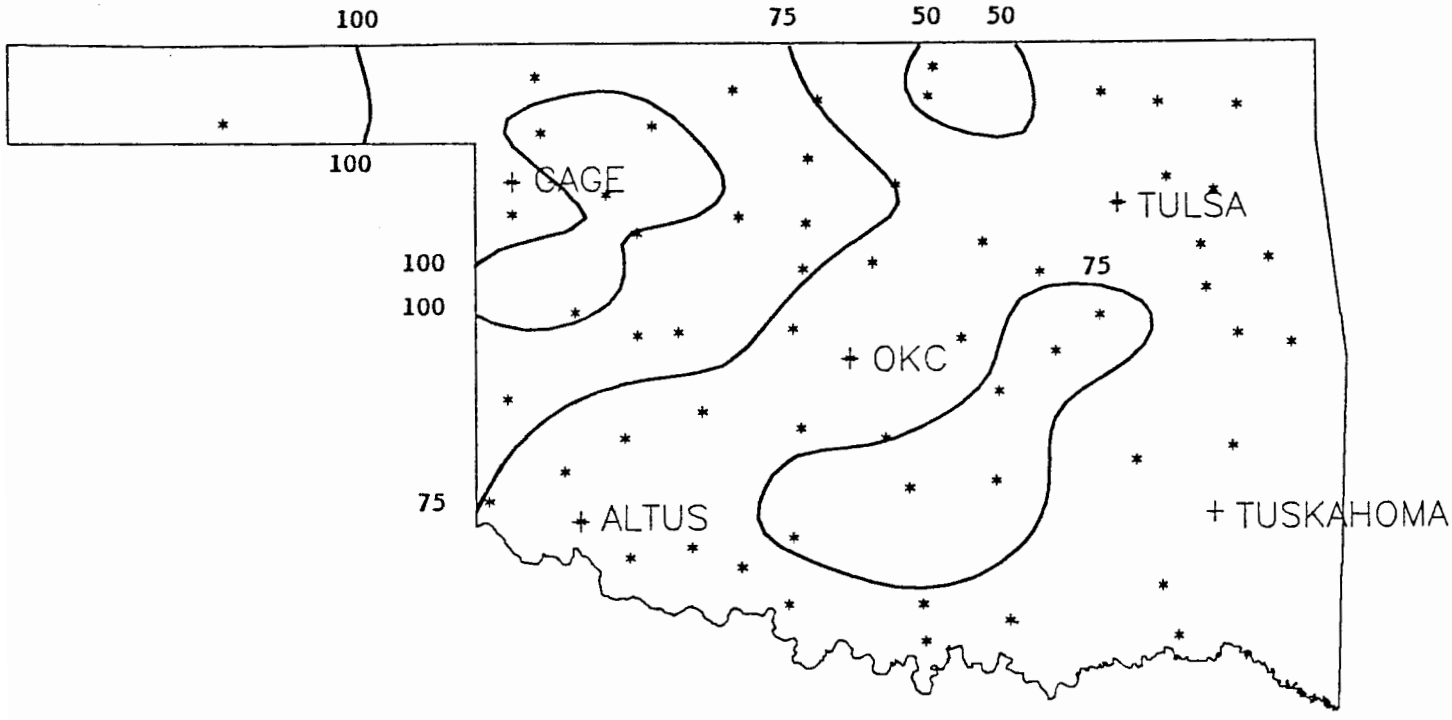
JANUARY 1991 AVERAGE MONTHLY TEMPERATURES
(Degrees F)



JANUARY 1991 DEVIATION FROM NORMAL TEMPERATURES
(Degrees F)

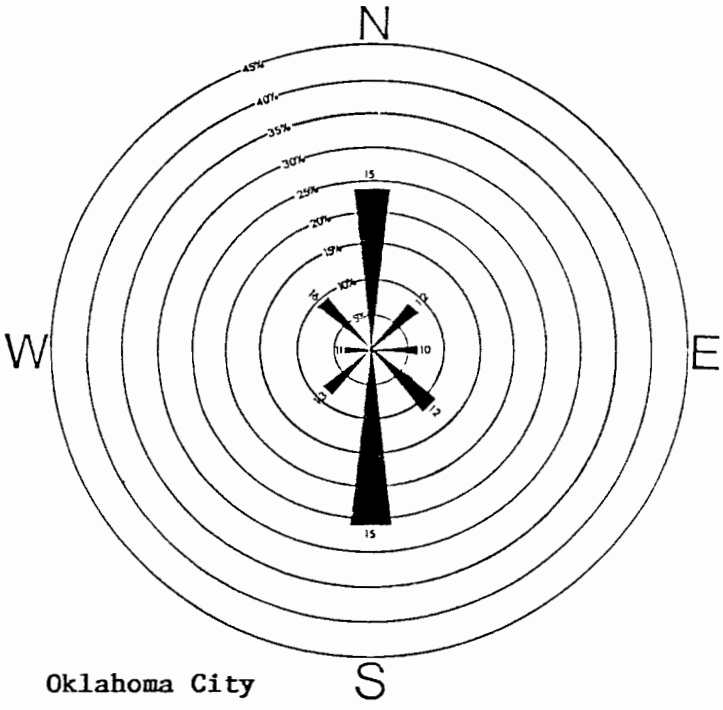


JANUARY 1991 HEATING DEGREE DAYS

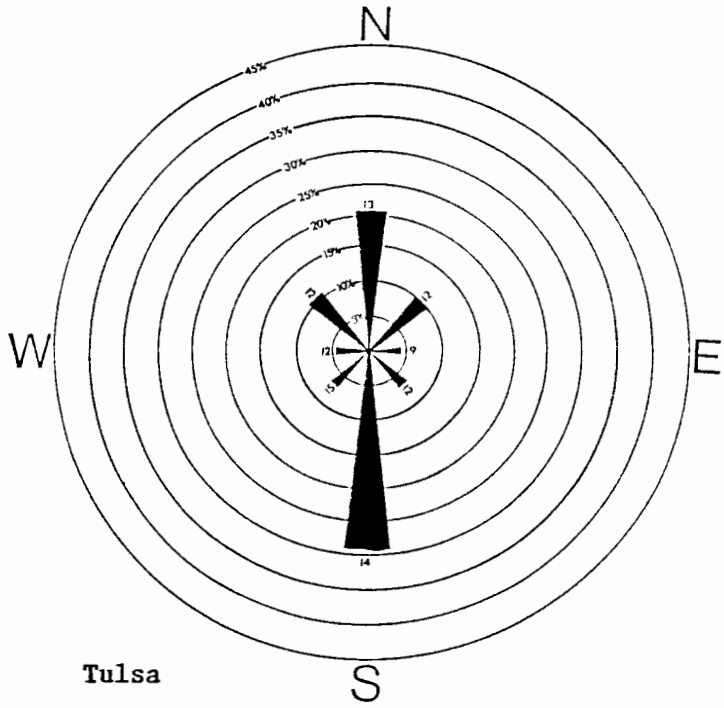


JANUARY 1991 DEVIATION FROM NORMAL HEATING DEGREE DAYS

March 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

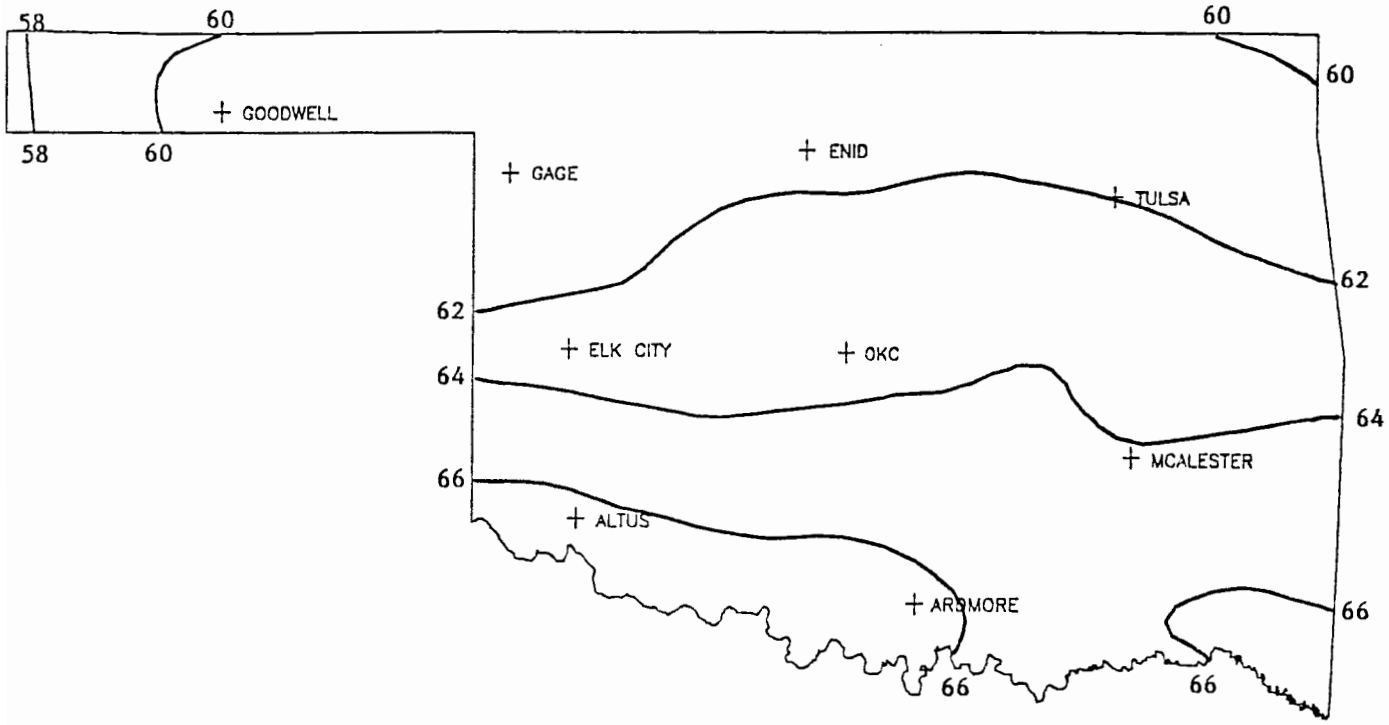
MARCH 1991 SUNRISE AND SUNSET

Oklahoma City

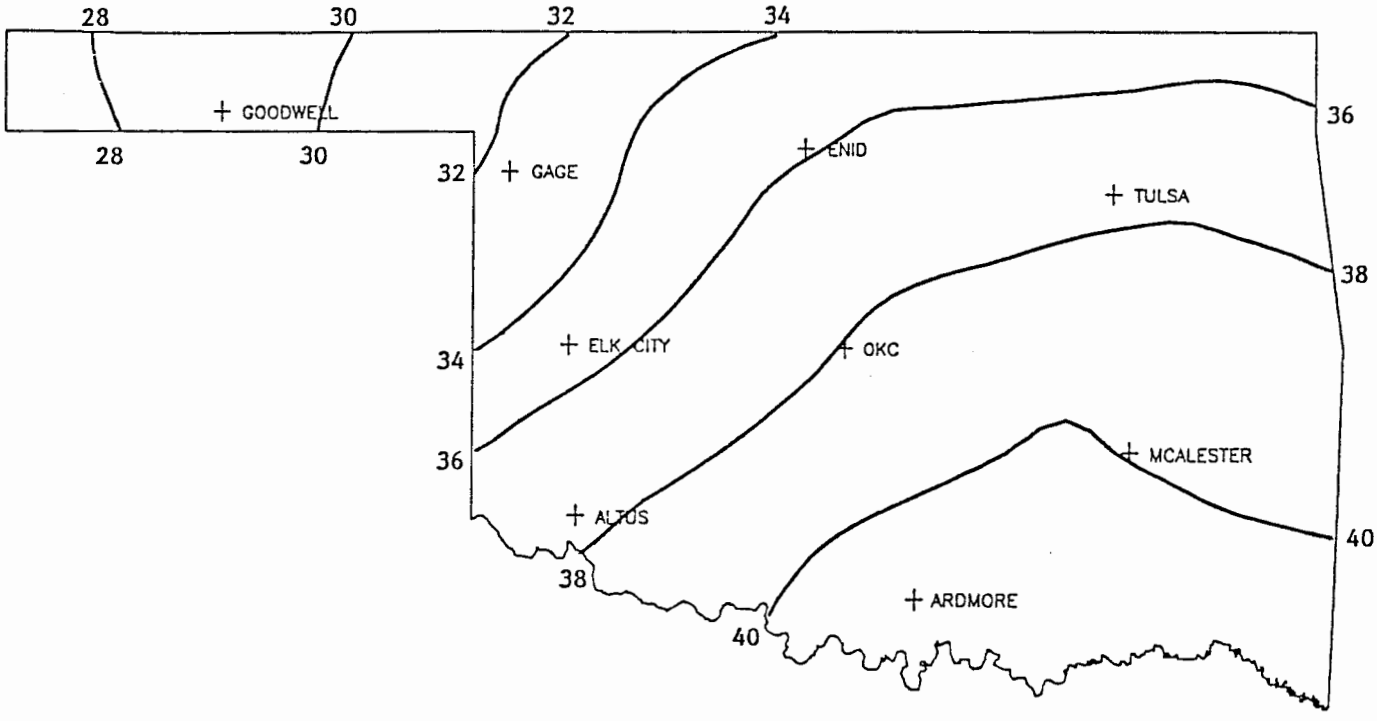
DATE	SUNRISE	SUNSET	DAYLIGHT
910301	8: 2AM	7:25PM LT	11:23
910302	8: 0AM	7:26PM LT	11:25
910303	7:59AM	7:26PM LT	11:27
910304	7:58AM	7:27PM LT	11:29
910305	7:57AM	7:28PM LT	11:32
910306	7:55AM	7:29PM LT	11:34
910307	7:54AM	7:30PM LT	11:36
910308	7:53AM	7:31PM LT	11:38
910309	7:51AM	7:32PM LT	11:41
910310	7:50AM	7:33PM LT	11:43
910311	7:48AM	7:33PM LT	11:45
910312	7:47AM	7:34PM LT	11:47
910313	7:46AM	7:35PM LT	11:49
910314	7:44AM	7:36PM LT	11:52
910315	7:43AM	7:37PM LT	11:54
910316	7:41AM	7:38PM LT	11:56
910317	7:40AM	7:38PM LT	11:58
910318	7:39AM	7:39PM LT	12: 1
910319	7:37AM	7:40PM LT	12: 3
910320	7:36AM	7:41PM LT	12: 5
910321	7:34AM	7:42PM LT	12: 7
910322	7:33AM	7:43PM LT	12:10
910323	7:31AM	7:43PM LT	12:12
910324	7:30AM	7:44PM LT	12:14
910325	7:29AM	7:45PM LT	12:16
910326	7:27AM	7:46PM LT	12:19
910327	7:26AM	7:47PM LT	12:21
910328	7:24AM	7:47PM LT	12:23
910329	7:23AM	7:48PM LT	12:25
910330	7:21AM	7:49PM LT	12:28
910331	7:20AM	7:50PM LT	12:30

Tulsa

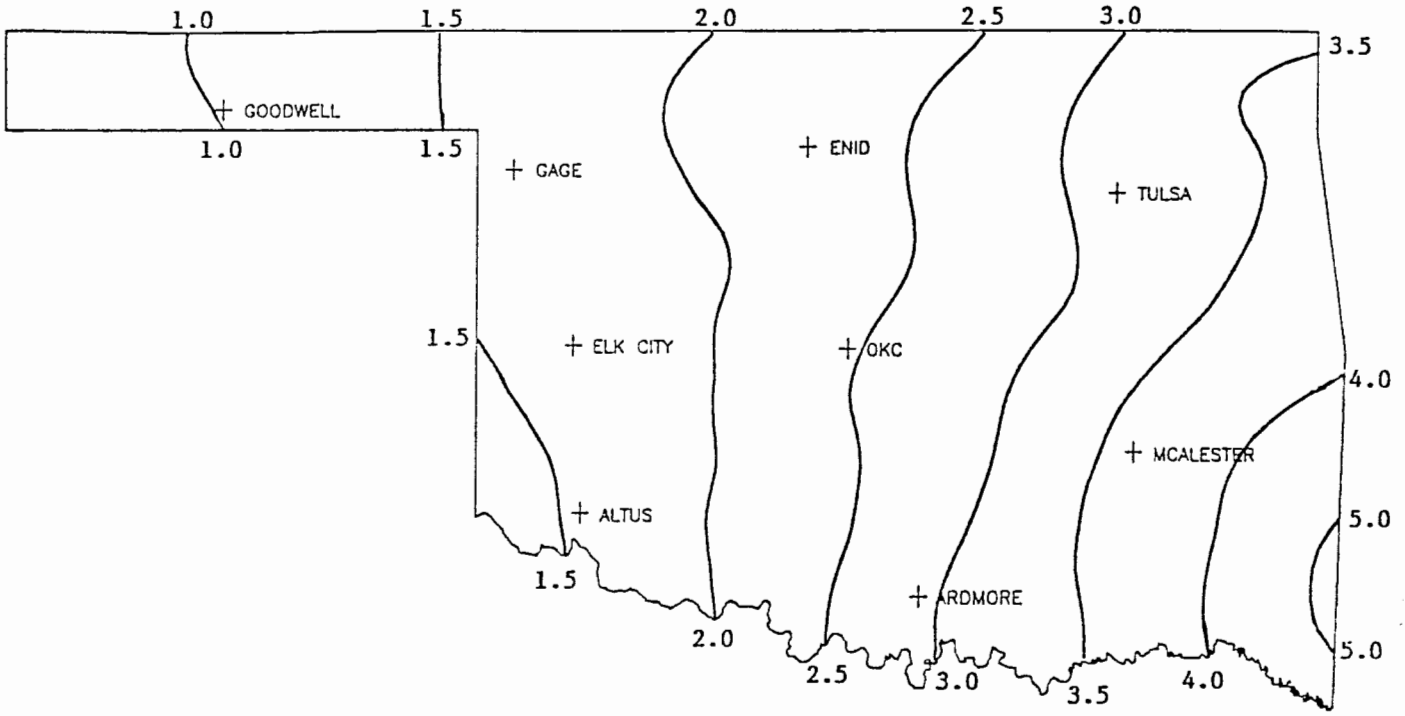
DATE	SUNRISE	SUNSET	DAYLIGHT
910301	7:56AM	7:17PM LT	11:22
910302	7:54AM	7:18PM LT	11:24
910303	7:53AM	7:19PM LT	11:26
910304	7:52AM	7:20PM LT	11:28
910305	7:50AM	7:21PM LT	11:31
910306	7:49AM	7:22PM LT	11:33
910307	7:48AM	7:23PM LT	11:35
910308	7:46AM	7:24PM LT	11:38
910309	7:45AM	7:25PM LT	11:40
910310	7:43AM	7:25PM LT	11:42
910311	7:42AM	7:26PM LT	11:44
910312	7:41AM	7:27PM LT	11:47
910313	7:39AM	7:28PM LT	11:49
910314	7:38AM	7:29PM LT	11:51
910315	7:36AM	7:30PM LT	11:54
910316	7:35AM	7:31PM LT	11:56
910317	7:33AM	7:32PM LT	11:58
910318	7:32AM	7:32PM LT	12: 1
910319	7:30AM	7:33PM LT	12: 3
910320	7:29AM	7:34PM LT	12: 5
910321	7:28AM	7:35PM LT	12: 7
910322	7:26AM	7:36PM LT	12:10
910323	7:25AM	7:37PM LT	12:12
910324	7:23AM	7:38PM LT	12:14
910325	7:22AM	7:38PM LT	12:17
910326	7:20AM	7:39PM LT	12:19
910327	7:19AM	7:40PM LT	12:21
910328	7:17AM	7:41PM LT	12:24
910329	7:16AM	7:42PM LT	12:26
910330	7:14AM	7:43PM LT	12:28
910331	7:13AM	7:43PM LT	12:31



30-YEAR MEAN MARCH DAILY MAXIMUM TEMPERATURE



30-YEAR MEAN MARCH DAILY MINIMUM TEMPERATURE



30-YEAR MEAN MARCH PRECIPITATION

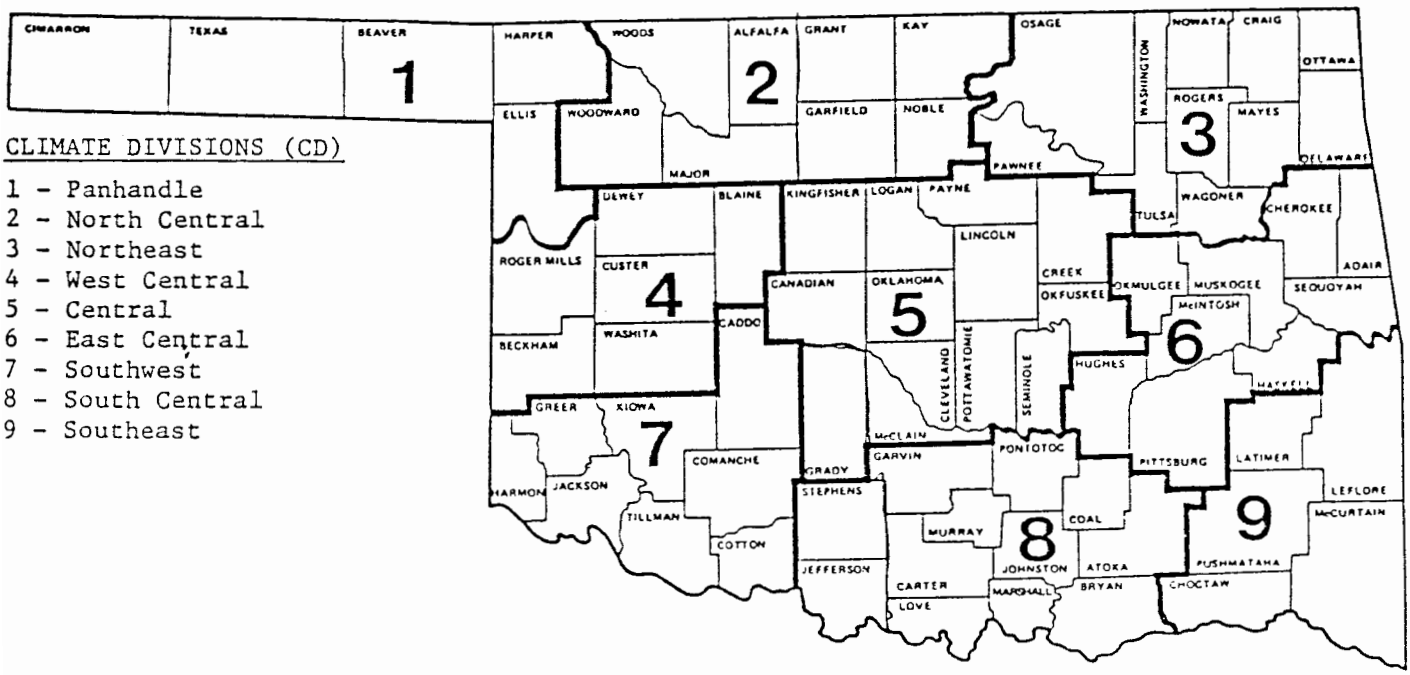
90-DAY NATIONAL WEATHER SERVICE OUTLOOK

(FEBRUARY-APRIL 1991)

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.

MARCH 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
58.9	max	
33.5	min	
.102	pcpn	
19	HDD	
0	CDD	
Highest Max		85-1976
Lowest Max		20-1980
Lowest Min		9-1980
Highest Min		56-1940
Greatest pcpn		1.71-1948

Normal	2	Actual
58.7	max	
35.7	min	
.114	pcpn	
18	HDD	
0	CDD	
Highest Max		85-1976
Lowest Max		27-1960
Lowest Min		8-1980
Highest Min		62-1976
Greatest pcpn		2.04-1988

Normal	3	Actual
56.6	max	
34.8	min	
.116	pcpn	
19	HDD	
0	CDD	
Highest Max		84-1955
Lowest Max		18-1960
Lowest Min		3-1960
Highest Min		59-1955
Greatest pcpn		1.46-1985

Normal	4	Actual
55.3	max	
32.0	min	
.045	pcpn	
21	HDD	
0	CDD	
Highest Max		84-1938
Lowest Max		18-1960
Lowest Min		8-1960
Highest Min		60-1938
Greatest pcpn		1.00-1982

Normal	5	Actual
55.5	max	
33.0	min	
.022	pcpn	
21	HDD	
0	CDD	
Highest Max		87-1956
Lowest Max		25-1960
Lowest Min		10-1960
Highest Min		56-1956
Greatest pcpn		1.71-1933

Normal	6	Actual
59.0	max	
34.0	min	
.057	pcpn	
18	HDD	
0	CDD	
Highest Max		83-1929
Lowest Max		21-1943
Lowest Min		8-1943
Highest Min		54-1890
Greatest pcpn		1.45-1973

Normal	7	Actual
57.5	max	
34.6	min	
.049	pcpn	
19	HDD	
0	CDD	
Highest Max		79-1974
Lowest Max		22-1932
Lowest Min		9-1943
Highest Min		61-1974
Greatest pcpn		.61-1976

Normal	8	Actual
57.0	max	
35.0	min	
.116	pcpn	
19	HDD	
0	CDD	
Highest Max		77-1977
Lowest Max		26-1932
Lowest Min		9-1967
Highest Min		57-1974
Greatest pcpn		1.38-1974

Normal	9	Actual
59.8	max	
36.3	min	
.049	pcpn	
17	HDD	
0	CDD	
Highest Max		81-1986
Lowest Max		29-1932
Lowest Min		11-1932
Highest Min		61-1986
Greatest pcpn		.70-1952

Normal	10	Actual
61.0	max	
37.5	min	
.117	pcpn	
16	HDD	
0	CDD	
Highest Max		89-1955
Lowest Max		26-1932
Lowest Min		4-1948
Highest Min		61-1990
Greatest pcpn		1.48-1974

Normal	11	Actual
58.7	max	
37.7	min	
.113	pcpn	
17	HDD	
0	CDD	
Highest Max		93-1967
Lowest Max		16-1948
Lowest Min		1-1948
Highest Min		56-1972
Greatest pcpn		1.48-1945

Normal	12	Actual
58.1	max	
36.3	min	
.046	pcpn	
18	HDD	
0	CDD	
Highest Max		90-1967
Lowest Max		27-1950
Lowest Min		4-1948
Highest Min		59-1972
Greatest pcpn		.78-1966

Normal	13	Actual
59.2	max	
35.8	min	
.021	pcpn	
17	HDD	
0	CDD	
Highest Max		90-1967
Lowest Max		36-1956
Lowest Min		14-1950
Highest Min		62-1990
Greatest pcpn		.43-1953

Normal	14	Actual
62.1	max	
36.4	min	
.049	pcpn	
16	HDD	
0	CDD	
Highest Max		83-1955
Lowest Max		32-1937
Lowest Min		17-1954
Highest Min		56-1955
Greatest pcpn		1.04-1990

Normal	15	Actual
59.3	max	
37.9	min	
.024	pcpn	
16	HDD	
0	CDD	
Highest Max		84-1943
Lowest Max		37-1937
Lowest Min		21-1937
Highest Min		56-1935
Greatest pcpn		2.34-1944

Normal	16	Actual
60.5	max	
37.8	min	
.076	pcpn	
16	HDD	
0	CDD	
Highest Max		79-1966
Lowest Max		37-1960
Lowest Min		22-1934
Highest Min		56-1930
Greatest pcpn		1.25-1987

Normal	17	Actual
63.0	max	
38.1	min	
.073	pcpn	
14	HDD	
0	CDD	
Highest Max		87-1989
Lowest Max		34-1970
Lowest Min		20-1934
Highest Min		56-1977
Greatest pcpn		.69-1953

Normal	18	Actual
62.4	max	
39.3	min	
.049	pcpn	
14	HDD	
0	CDD	
Highest Max		86-1963
Lowest Max		30-1965
Lowest Min		19-1965
Highest Min		59-1968
Greatest pcpn		.48-1968

Normal	19	Actual
62.0	max	
38.8	min	
.074	pcpn	
15	HDD	
0	CDD	
Highest Max		88-1976
Lowest Max		26-1965
Lowest Min		16-1965
Highest Min		61-1982
Greatest pcpn		.90-1944

Normal	20	Actual
61.6	max	
38.6	min	
.204	pcpn	
15	HDD	
0	CDD	
Highest Max		85-1938
Lowest Max		35-1964
Lowest Min		12-1965
Highest Min		64-1935
Greatest pcpn		2.18-1985

Normal	21	Actual
60.2	max	
36.6	min	
.037	pcpn	
17	HDD	
0	CDD	
Highest Max		84-1938
Lowest Max		29-1955
Lowest Min		17-1974
Highest Min		62-1935
Greatest pcpn		.54-1926

Normal	22	Actual
64.2	max	
37.6	min	
.085	pcpn	
14	HDD	
0	CDD	
Highest Max		85-1929
Lowest Max		38-1952
Lowest Min		13-1955
Highest Min		59-1935
Greatest pcpn		1.37-1979

Normal	23	Actual
63.2	max	
39.0	min	
.198	pcpn	
14	HDD	
0	CDD	
Highest Max		88-1929
Lowest Max		36-1974
Lowest Min		17-1983
Highest Min		60-1947
Greatest pcpn		2.35-1984

Normal	24	Actual
61.8	max	
39.7	min	
.049	pcpn	
14	HDD	
0	CDD	
Highest Max		91-1929
Lowest Max		30-1990
Lowest Min		23-1965
Highest Min		59-1928
Greatest pcpn		1.24-1973

Normal	25	Actual
61.1	max	
39.5	min	
.101	pcpn	
15	HDD	
0	CDD	
Highest Max		88-1976
Lowest Max		33-1964
Lowest Min		18-1955
Highest Min		60-1976
Greatest pcpn		.81-1948

Normal	26	Actual
63.1	max	
40.1	min	
.062	pcpn	
13	HDD	
0	CDD	
Highest Max		85-1972
Lowest Max		33-1937
Lowest Min		13-1955
Highest Min		60-1989
Greatest pcpn		2.02-1938

Normal	27	Actual
65.5	max	
41.0	min	
.056	pcpn	
12	HDD	
0	CDD	
Highest Max		84-1945
Lowest Max		36-1931
Lowest Min		18-1955
Highest Min		60-1985
Greatest pcpn		1.87-1989

Normal	28	Actual
66.3	max	
43.2	min	
.129	pcpn	
11	HDD	
1	CDD	
Highest Max		88-1928
Lowest Max		36-1931
Lowest Min		16-1931
Highest Min		62-1985
Greatest pcpn		2.84-1988

Normal	29	Actual
63.2	max	
41.7	min	
.045	pcpn	
13	HDD	
1	CDD	
Highest Max		86-1967
Lowest Max		34-1987
Lowest Min		21-1944
Highest Min		65-1963
Greatest pcpn		.59-1981

Normal	30	Actual
63.6	max	
41.5	min	
.134	pcpn	
13	HDD	
0	CDD	
Highest Max		85-1946
Lowest Max		28-1926
Lowest Min		22-1987
Highest Min		64-1967
Greatest pcpn		1.82-1963

Normal	31	Actual
68.2	max	
44.0	min	
.056	pcpn	
10	HDD	
1	CDD	
Highest Max		94-1940
Lowest Max		41-1926
Lowest Min		20-1926
Highest Min		62-1967
Greatest pcpn		1.29-1988

MARCH AVERAGES

Temperature	:	49.3°F
Precipitation	:	2.47"
Heating Degree Days:		491
Cooling Degree Days:		3