OKLAHOMA
MONTHLY SUMMARY
DECEMBER 1991

TABLE OF CONTENTS

DECEMBER 1991 OKLAHOMA SUMMARY

Heavy precipitation covered Oklahoma during December, with each climate division in Oklahoma receiving more than twice its normal amount for the month. Precipitation averaged 4.79 inches across the state, placing December 1991 as the 3rd wettest among the last 100 years, 3.28 inches above normal. Virtually all of the precipitation came in the form of heavy rains; very little snow or ice was reported during the month. Preliminary data show a statewide-averaged annual total of 39.18 inches of precipitation during 1991, which is 6.72 inches above normal. 1991 was the 21st wettest year on record.

December was also among the warmest on record. The 43.5 degree average temperature was 2.8 degrees above normal, which places the month tied with 1923 for the 18th warmest. Daily maximum temperatures climbed into the 60's and 70's at many locations for much of the first two thirds of the month, but heavy cloud cover later in the month held temperatures to more seasonable values. From the 4th through the end of the month, every reporting station showed maximum temperatures above freezing, and the 14 degree minimum temperature recorded at Nowata and Woodward on the 3rd held up as the coldest for the month.

Cool weather prevailed at the beginning of the month, with maximum temperatures generally in the 30's and 40's and minimum temperatures dipping to the teens. Rainfall totals in excess of one inch were reported across large sections of east and southeast Oklahoma on the 1st and 2nd. Elsewhere in the state, light snow or freezing rain fell, causing delays for some returning from the Thanksgiving weekend.

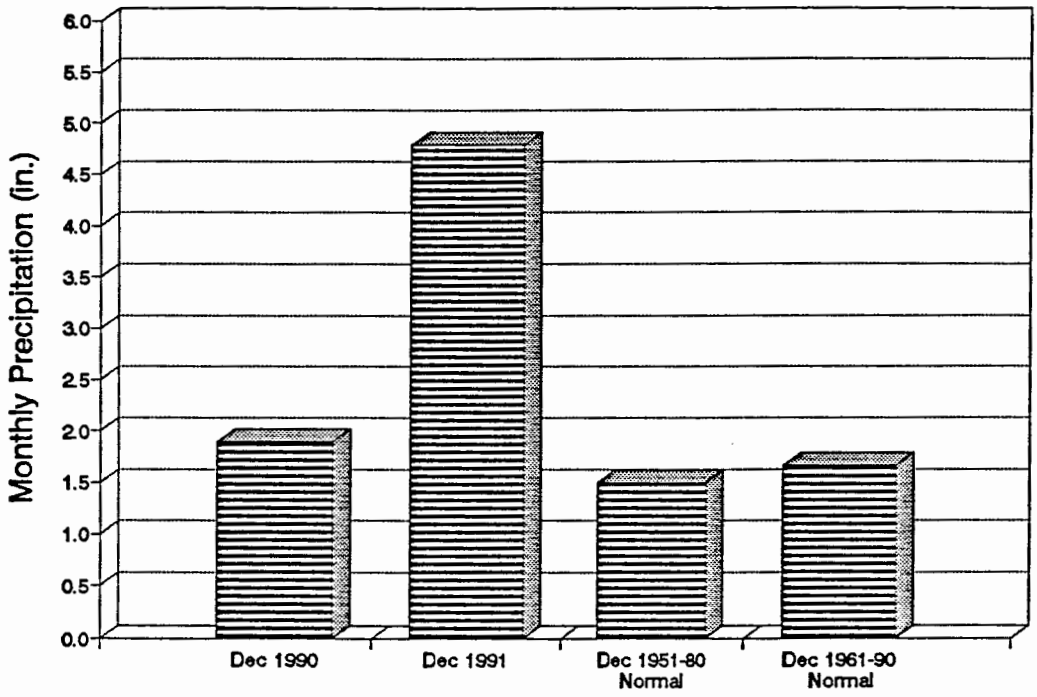
As the storm system moved eastward, skies cleared across the state. Several days of dry, sunny weather pushed temperatures steadily upward, eventually reaching as high as 80 degrees at Tahlequah and Wilburton on the 8th. Every reporting station indicated maximum temperatures of 60 degrees or greater on the 7th. A frontal passage on the 8th brought heavy rain to the southeast corner of the state, with Broken Bow reporting 4.10 inches, but little rain fell elsewhere. More widespread rain was reported with a frontal passage on the 11th and 12th. Neither front had much of an impact on temperatures, which remained unseasonably warm.

After several more warm, dry days, an upper-air pattern set up which brought moisture northward from the Gulf of Mexico, producing heavy rains across much of the state beginning on the 18th. For several days, rainfall totals over two inches were reported at numerous locations, including amounts over three inches at Anadarko on the 19th (3.20 inches) and Bartlesville on the 20th (3.47 inches). Much of east central, south central and southeast Oklahoma fell under a flash flood watch during the period.

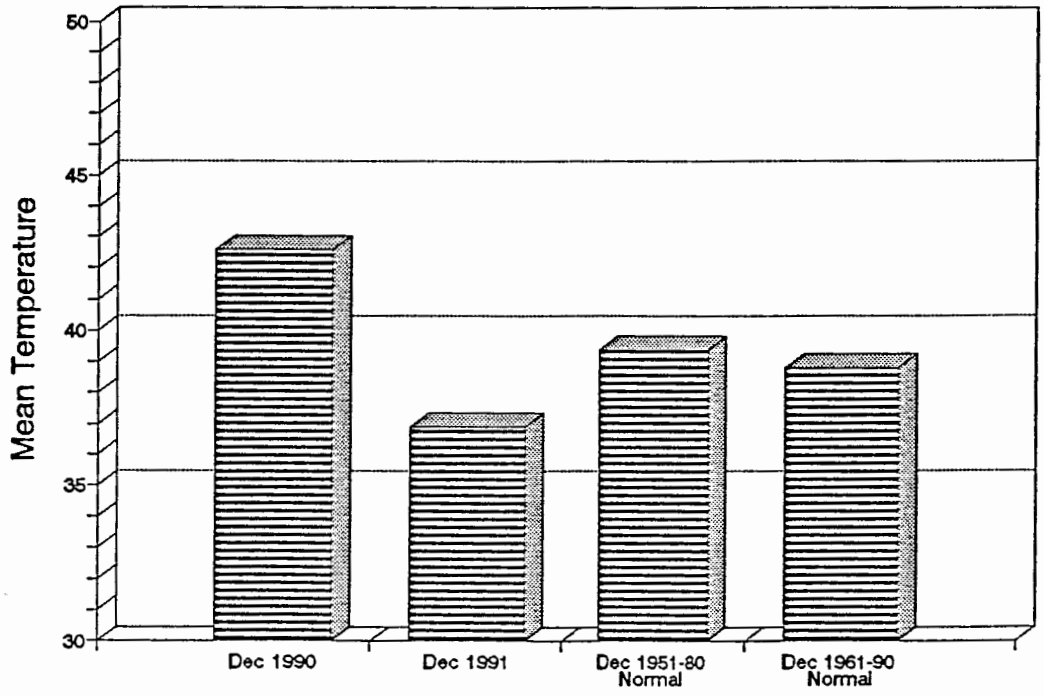
Clouds and fog prevailed for much of the remainder of the month, with a brief return of sunshine on Christmas Eve and again on New Years Eve. Although the clouds remained, rainfall totals were much lower than they had been just a few days earlier. Only a few stations reported more than an inch of precipitation from the 24th through the 31st. Despite abundant cloud cover, temperatures remained moderate through the rest of the month.

- Mark A. Shafer

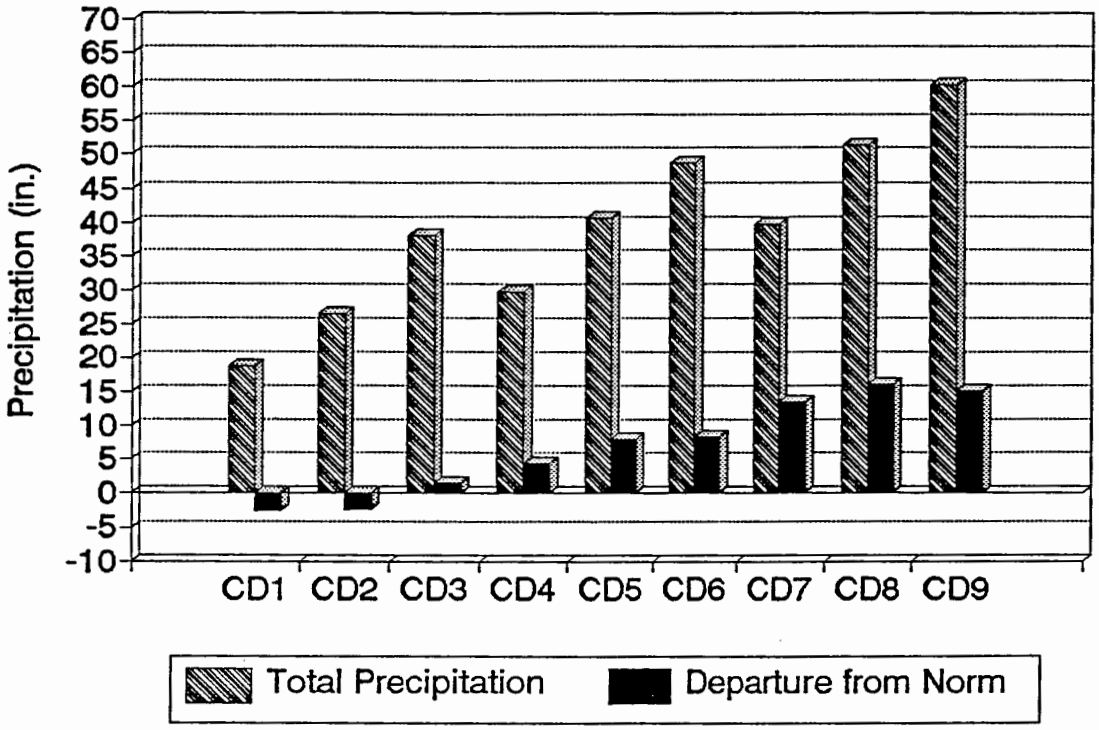
Comparison of Monthly Precipitation
Statewide Average for Oklahoma



Comparison of Monthly Temperature
Statewide Average for Oklahoma



CD Averaged Precipitation
Jan-Dec 1991



DECEMBER 1991 PERCENT OF NORMAL PRECIPITATION.

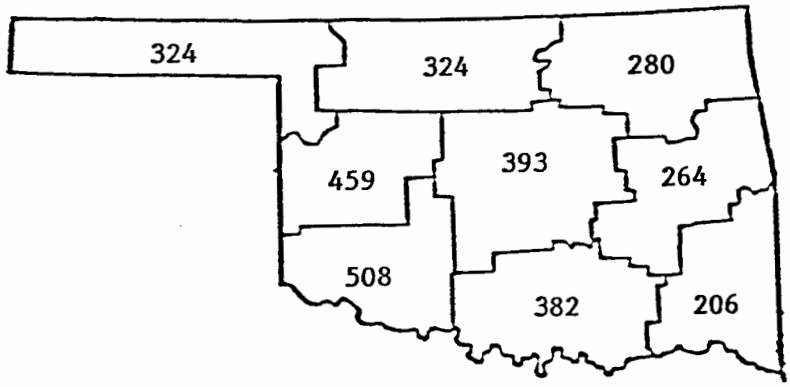


TABLE OF 1990/1991 COMPARISONS

Station	December Temperature (F) 1990	1991	December Precipitation (in.) 1990	1991
Arnett	30.7	38.2	.25	2.07
Enid	33.8	41.4	.43	4.02
Mutual	30.6	39.1	.30	2.78
Tulsa	39.3	45.3	3.72	3.31
Elk City	36.5	42.3	.44	3.43
Oklahoma City	37.1	44.1	1.51	5.90
McAlester	40.8	46.7	4.26	4.76
Atlus Irr Sta	36.8	44.3	.85	4.07
Durant	41.0	46.3	2.93	8.14
Ada	38.0	44.9	2.44	6.60
Antlers	42.1	47.5	2.36	6.29

EXTREMES

Variable	Station	Division	Observation	Date
Minimum temperature (F)	Boise City	1	13	2
Maximum temperature (F)	Waynoka	2	81	1
Maximum 24-hour precipitation	Broken Bow	9	4.10"	8

DECEMBER 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	38.2	31	1.0	74.	8	20.	3	831.5	-30.5	.0	.0	2.071	31	1.44	.56	20
BEAVER	593	1	36.8	31	.6	73.	8	18.	25	874.0	-19.0	.0	.0	1.780	31	1.33	.45	19
BOISE CITY 2 E	908	1	36.7	31	-.1	70.	16	13.	2	878.0	4.0	.0	.0	1.230	31	.83	.54	31
BUFFALO	1243	1	41.0	31	2.5	76.	7	19.	16	745.5	-76.5	.0	.0	2.930	31	2.24	1.00	31
FARGO	3070	1	*****	0	*****	****	0	****	0	******	******	******	******	1.900	31	1.25	.64	20
GAGE FAA APT	3407	1	39.8	31	3.0	77.	7	18.	16	781.0	-93.0	.0	.0	2.290	31	1.65	.53	20
GATE	3489	1	39.9	31	*****	75.	7	19.	1	778.5	******	.0	******	2.330	31	*****	.56	19
GOODWELL RES ST	3628	1	35.9	31	-.8	67.	8	14.	3	903.5	26.5	.0	.0	1.900	31	1.63	.48	27
GUYMON	3835	1	37.4	25	*****	67.	16	18.	2	690.5	******	.0	******	3.280	28	*****	.80	20
HOOKER	4298	1	36.5	31	.1	68.	8	17.	2	883.0	-4.0	.0	.0	1.840	31	1.45	.44	20
LAVERNE	5045	1	*****	0	*****	****	0	****	0	******	******	******	******	1.510	31	.84	.40	20
OPTIMA LAKE	6740	1	36.9	31	*****	70.	8	16.	2	872.5	******	.0	******	2.530	31	*****	.57	27
REGNIER	7534	1	*****	0	*****	****	0	****	0	******	******	******	******	.760	31	.48	.30	20
TURPIN 4 SSE	9017	1	36.3	31	*****	70.	8	17.	2	888.5	******	.0	******	2.270	30	*****	.50	19

DECEMBER 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	40.4	31	*****	72.	7	21.	5	762.5	******	.0	******	1.580	31	*****	.65	20
VANCE AFB	302	2	*****	0	*****	****	0	****	0	******	******	******	******	1.847	31	*****	1.13	12
BILLINGS	755	2	41.6	31	*****	72.	8	22.	3	726.5	******	.0	******	3.762	31	2.54	1.90	20
BLACKWELL 2E	818	2	41.5	31	*****	70.	7	21.	4	727.5	******	.0	******	3.920	31	*****	1.64	20
BRAMAN	1075	2	*****	0	*****	****	0	****	0	******	******	******	******	3.401	31	*****	1.55	20
CEDARDALE	1620	2	*****	0	*****	****	0	****	0	******	******	******	******	2.311	31	*****	.64	12
CHEROKEE	1724	2	41.5	31	3.2	71.	7	23.	4	727.5	-100.5	.0	.0	3.003	31	2.13	.87	20
ENID	2912	2	41.6	31	2.3	68.	7	24.	24	726.5	-70.5	.0	.0	4.020	31	2.99	1.45	20
FT SUPPLY DAM	3304	2	38.7	31	.6	77.	8	20.	25	816.0	-18.0	.0	.0	2.201	31	1.58	.60	20
FREEDOM	3358	2	39.3	31	*****	76.	7	17.	4	796.5	******	.0	******	2.420	31	*****	.50	12
GREAT SALT PLNS	3740	2	40.3	31	*****	71.	8	22.	5	766.0	******	.0	******	2.812	24	*****	.88	20
HARDY	3909	2	*****	0	*****	****	0	****	0	******	******	******	******	4.402	31	*****	2.80	19
HELENA 1 SSE	4019	2	40.0	31	*****	69.	8	23.	4	774.0	******	.0	******	2.751	31	1.81	.86	20
JEFFERSON	4573	2	40.9	31	2.6	71.	7	19.	24	748.5	-79.5	.0	.0	3.151	31	2.12	1.16	19
LAMONT	5013	2	*****	0	*****	****	0	****	0	******	******	******	******	3.311	31	*****	1.51	20
MEDFORD	5768	2	*****	0	*****	****	0	****	0	******	******	******	******	3.631	31	*****	1.29	19
MORRISON	6065	2	*****	0	*****	****	0	****	0	******	******	******	******	4.531	31	*****	2.25	20
MUTUAL	6139	2	39.5	31	1.7	73.	8	22.	3	790.5	-52.5	.0	.0	2.781	31	2.12	1.00	20
NEWKIRK	6278	2	41.2	31	3.6	71.	7	18.	4	737.5	-111.5	.0	.0	2.574	31	1.35	1.05	23
ORIENTA	6751	2	*****	0	*****	****	0	****	0	******	******	******	******	2.610	31	*****	.72	20
PERRY	7012	2	43.6	31	3.2	68.	7	24.	3	662.5	-100.5	.0	.0	4.581	31	3.38	2.27	20
PONCA CITY FAA	7201	2	43.7	31	7.0	73.	7	24.	4	660.0	-217.0	.0	.0	3.464	31	2.19	1.75	20
RED ROCK 1 NNE	7505	2	*****	0	*****	****	0	****	0	******	******	******	******	3.680	31	2.39	2.00	20
WAYNOKA	9404	2	41.1	31	2.5	81.	1	16.	3	740.0	-78.0	.0	.0	3.130	31	2.36	1.10	30
WOODWARD	9760	2	39.0	26	*****	69.	8	14.	3	676.0	******	.0	******	1.293	30	*****	.38	19

DECEMBER 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	41.9	31	*****	70.	7	19.	4	716.0	******	.0	******	5.042	31	3.42	2.67	20
BARTLESVILLE 2W	548	3	42.2	31	3.2	69.	8	17.	4	705.5	-100.5	.0	.0	5.722	31	4.24	3.47	20
BIXBY	782	3	43.5	31	3.2	73.	9	22.	5	665.5	-100.5	.0	.0	4.350	31	2.52	1.54	20
BURBANK	1256	3	*****	0	*****	****	0	****	0	******	******	******	******	4.353	31	*****	1.56	20
CHELSEA 4 S	1717	3	*****	0	*****	****	0	****	0	******	******	******	******	5.500	31	*****	2.00	20
CLAREMORE	1828	3	42.3	31	3.3	75.	9	21.	5	702.5	-103.5	.0	.0	5.170	31	3.32	1.82	20
CLEVELAND 5 WSW	1902	3	43.1	27	*****	69.	7	23.	4	591.0	******	.0	******	4.390	31	*****	2.61	20
FORAKER	3250	3	*****	0	*****	****	0	****	0	******	******	******	******	3.470	31	2.13	2.23	20
HOLLOW	4258	3	*****	0	*****	****	0	****	0	******	******	******	******	4.930	31	3.04	1.99	20
HOMINY	4289	3	*****	0	*****	****	0	****	0	******	******	******	******	4.822	31	3.54	2.58	20
HULAH DAM	4393	3	41.6	21	*****	76.	13	16.	4	492.0	******	.0	******	4.241	31	2.95	2.35	20
JAY TOWER	4567	3	42.7	30	*****	74.	9	19.	4	669.0	******	.0	******	5.650	31	*****	1.75	20
KANSAS 1 ESE	4672	3	44.2	31	*****	76.	8	20.	4	648.0	******	3.5	******	4.995	31	*****	1.90	20
KEYSTONE DAM	4812	3	40.4	27	*****	71.	10	19.	26	663.5	******	.0	******	5.081	23	*****	1.61	20
LENAPAH	5118	3	*****	0	*****	****	0	****	0	******	******	******	******	3.760	31	*****	1.50	20
MANNFORD 6 NW	5522	3	43.0	31	*****	71.	7	22.	25	681.5	******	.0	******	4.192	31	2.77	2.14	20
MARAMEC	5540	3	*****	0	*****	****	0	****	0	******	******	******	******	4.871	31	3.64	2.60	20
MIAMI	5855	3	42.4	31	3.2	73.	8	19.	4	699.5	-100.5	.0	.0	4.841	31	2.69	1.65	20
NOWATA	6485	3	39.6	31	.6	71.	10	14.	3	786.5	-19.5	.0	.0	5.110	31	3.31	1.95	20
ONETA 1 WNW	6713	3	*****	0	*****	****	0	****	0	******	******	******	******	4.681	31	*****	1.50	20
PAWHUSKA	6935	3	41.9	31	3.2	71.	7	18.	4	716.5	-98.5	.0	.0	4.480	31	3.13	2.52	20
PAWNEE	6940	3	*****	0	*****	****	0	****	0	******	******	******	******	3.331	31	2.08	1.92	20
PRYOR 6 N	7309	3	41.6	31	2.2	76.	9	20.	5	725.5	-68.5	.0	.0	4.631	31	2.59	1.78	20
RALSTON	7390	3	43.2	31	*****	73.	7	19.	25	674.5	******	.0	******	4.241	31	2.88	2.36	20
RAMONA 4 N	7394	3	*****	0	*****	****	0	****	0	******	******	******	******	4.183	31	*****	1.97	20
SKIATOOK	8258	3	*****	0	*****	****	0	****	0	******	******	******	******	2.540	31	1.09	.83	20
SPAVINAW	8380	3	45.8	31	*****	75.	8	21.	4	599.5	******	3.0	******	5.493	31	3.46	1.70	20
TULSA WSO APT	8992	3	45.3	31	5.5	73.	8	25.	4	613.0	-168.0	3.5	3.5	3.312	31	1.49	1.43	20
UPPER SPAVINAW	9101	3	46.7	27	*****	70.	8	22.	4	499.5	******	4.5	******	5.765	29	*****	1.61	20
VINITA 2 N	9203	3	43.0	31	4.1	74.	8	19.	4	682.5	-126.5	.0	.0	5.720	31	3.58	1.77	20
WAGONER	9247	3	44.5	31	3.1	78.	8	21.	4	637.5	-94.5	2.5	2.5	5.831	31	3.77	1.87	20
WANN	9298	3	*****	0	*****	****	0	****	0	******	******	******	******	4.350	31	*****	2.57	20
WYNONA	9792	3	*****	0	*****	****	0	****	0	******	******	******	******	4.093	31	*****	2.10	20

DECEMBER 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	41.6	21	*****	69.	10	22.	2	490.5	******	.0	******	2.922	30	*****	1.05	12
CHEYENNE	1738	4	*****	0	*****	****	0	****	0	******	******	******	******	2.880	31	*****	.79	12
CLINTON	1909	4	42.3	31	2.4	74.	7	24.	24	704.0	-74.0	.0	.0	3.721	31	2.81	1.35	12
COLONY	2039	4	*****	0	*****	****	0	****	0	******	******	******	******	4.470	31	*****	1.63	12
CORDELL	2125	4	*****	0	*****	****	0	****	0	******	******	******	******	4.462	31	3.55	1.80	12
ELK CITY 1 E	2849	4	42.2	29	*****	73.	7	22.	1	661.5	******	.0	******	3.431	31	2.72	1.00	12
ERICK 4 E	2944	4	41.9	31	1.6	76.	7	22.	4	717.5	-48.5	.0	.0	3.460	31	2.78	.94	12
GEARY	3497	4	42.6	28	*****	70.	7	24.	3	627.0	******	.0	******	4.200	30	*****	1.50	20
HAMMON 1 NNE	3871	4	39.9	31	.9	75.	8	21.	28	779.5	-26.5	.0	.0	4.050	31	3.34	1.24	26
LEEDEY	5090	4	*****	0	*****	****	0	****	0	******	******	******	******	3.070	31	2.38	1.12	19
MACKIE 4 NNW	5463	4	*****	0	*****	****	0	****	0	******	******	******	******	1.970	31	*****	.70	20
MORAVIA 2 NNE	6035	4	*****	0	*****	****	0	****	0	******	******	******	******	4.361	31	3.56	1.52	12
OKEENE	6629	4	41.9	31	1.6	70.	8	23.	1	716.0	-50.0	.0	.0	3.630	31	2.77	1.18	12
RETROP	7565	4	*****	0	*****	****	0	****	0	******	******	******	******	4.530	31	*****	1.60	12
REYDON	7579	4	41.7	31	*****	76.	7	21.	2	721.5	******	.0	******	2.711	31	2.09	.82	20
SAYRE	7952	4	*****	0	*****	****	0	****	0	******	******	******	******	3.610	31	3.01	.87	12
TALOGA	8708	4	41.0	31	2.3	72.	7	21.	24	745.0	-70.0	.0	.0	2.582	31	1.95	.65	12
THOMAS	8815	4	*****	0	*****	****	0	****	0	******	******	******	******	3.870	31	*****	1.30	12
VICI	9172	4	*****	0	*****	****	0	****	0	******	******	******	******	2.552	31	*****	.65	19
WATONGA	9364	4	43.3	31	*****	72.	7	23.	3	674.0	******	.0	******	3.721	31	2.72	1.23	12
WEATHERFORD	9422	4	42.0	31	1.8	71.	8	23.	2	714.0	-55.0	.0	.0	3.750	31	2.89	1.39	12

DECEMBER 1991 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	******	******	******	******	4.730	31	*****	2.49	20
TINKER AFB	325	5	*****	0	*****	****	0	****	0	******	******	******	******	5.615	31	*****	2.97	20
BLANCHARD 2 SSW	830	5	45.0	31	*****	73.	7	25.	4	619.5	******	.0	******	5.243	31	*****	2.56	20
BRISTOW	1144	5	44.0	31	3.2	71.	8	20.	25	651.5	-98.5	.0	.0	5.214	31	3.62	1.65	20
CHANDLER	1684	5	44.4	29	*****	70.	9	21.	3	596.5	******	.0	******	5.000	31	3.61	2.50	20
CHICKASHA EX ST	1750	5	44.0	31	2.4	72.	7	24.	3	651.5	-73.5	.0	.0	5.090	31	4.01	2.51	20
COX CITY 1 E	2196	5	*****	0	*****	****	0	****	0	******	******	******	******	6.550	31	*****	2.00	21
CRESCENT	2242	5	*****	0	*****	****	0	****	0	******	******	******	******	4.120	31	*****	1.87	20
CUSHING	2318	5	42.9	31	3.4	69.	8	24.	3	685.0	-106.0	.0	.0	4.500	31	3.19	1.80	20
EL RENO 1 N	2818	5	43.3	31	3.2	70.	7	24.	3	673.0	-99.0	.0	.0	4.470	31	3.44	1.95	20
GUTHRIE	3821	5	44.9	31	4.9	72.	7	23.	3	623.5	-151.5	.0	.0	6.652	31	5.45	2.50	20
HENNESSEY 2 SE	4055	5	42.0	31	2.7	64.	8	24.	4	712.5	-84.5	.0	.0	4.142	31	3.15	1.70	20
INGALLS	4489	5	*****	0	*****	****	0	****	0	******	******	******	******	4.850	31	*****	2.45	20
KINGFISHER 2 SE	4861	5	42.3	31	2.4	70.	7	23.	3	704.0	-74.0	.0	.0	4.340	31	3.21	1.77	20
KONAWA	4915	5	*****	0	*****	****	0	****	0	******	******	******	******	6.330	31	4.47	1.79	20
MARSHALL	5589	5	*****	0	*****	****	0	****	0	******	******	******	******	3.860	31	2.72	2.08	20
MEEKER 4 W	5779	5	44.1	31	3.3	70.	8	22.	3	649.0	-101.0	.0	.0	5.391	31	3.96	2.10	19
MULHALL	6110	5	*****	0	*****	****	0	****	0	******	******	******	******	4.161	31	*****	2.15	20
NORMAN 3 S	6386	5	44.6	31	*****	73.	7	24.	25	631.5	******	.0	******	5.742	31	4.39	2.80	20
OILTON 2 SE	6616	5	*****	0	*****	****	0	****	0	******	******	******	******	5.610	31	*****	2.65	19
OKEMAH	6638	5	45.5	31	3.5	76.	8	26.	4	605.5	-107.5	1.0	1.0	5.641	31	3.81	1.97	20
OKLAHOMA CTY WS	6661	5	44.1	31	4.2	71.	7	26.	1	649.0	-129.0	.0	.0	5.906	31	4.71	1.96	19
PERKINS	7003	5	*****	0	*****	****	0	****	0	******	******	******	******	5.220	31	3.87	2.71	20
PIEDMONT	7068	5	*****	0	*****	****	0	****	0	******	******	******	******	4.390	31	*****	2.20	20
PRAGUE	7264	5	*****	0	*****	****	0	****	0	******	******	******	******	5.173	31	3.62	2.00	20
PURCELL 5 SW	7327	5	44.5	31	3.5	72.	7	22.	4	634.0	-110.0	.0	.0	6.531	31	5.07	2.80	20
SEMINOLE	8042	5	45.8	31	2.8	73.	8	24.	25	597.0	-85.0	2.5	2.5	6.310	31	4.53	2.03	20
SHAWNEE	8110	5	*****	0	*****	****	0	****	0	******	******	******	******	5.281	31	3.75	2.26	20
ST GREGORY'S AB	8450	5	46.0	31	*****	73.	8	25.	3	591.5	******	1.0	******	5.501	31	*****	2.83	20
STELLA	8479	5	*****	0	*****	****	0	****	0	******	******	******	******	5.870	31	*****	2.42	20
STILLWATER 2 W	8501	5	43.3	31	3.5	68.	8	21.	4	674.0	-107.0	.0	.0	5.101	31	3.88	2.46	20
STROUD 1 N	8563	5	*****	0	*****	****	0	****	0	******	******	******	******	5.302	31	*****	2.25	20
TECUMSEH	8751	5	*****	0	*****	****	0	****	0	******	******	******	******	5.860	31	*****	2.30	20
TROUSDALE	8960	5	*****	0	*****	****	0	****	0	******	******	******	******	7.340	31	*****	2.28	20
UNION CITY 1 SE	9086	5	*****	0	*****	****	0	****	0	******	******	******	******	6.115	31	4.77	2.68	20
WELTY 1 SSE	9479	5	*****	0	*****	****	0	****	0	******	******	******	******	4.903	31	*****	1.85	20
WEWOKA	9575	5	*****	0	*****	****	0	****	0	******	******	******	******	7.130	31	5.35	2.85	12

DECEMBER 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	******	******	******	******	7.360	31	*****	2.25	20
BEGGS	631	6	*****	0	*****	****	0	****	0	******	******	******	******	4.541	31	*****	1.90	20
BOYNTON	1027	6	*****	0	*****	****	0	****	0	******	******	******	******	6.060	31	*****	1.65	20
CALVIN	1391	6	*****	0	*****	****	0	****	0	******	******	******	******	6.770	31	4.81	2.40	20
CHECOTAH	1711	6	*****	0	*****	****	0	****	0	******	******	******	******	5.760	31	3.65	1.65	20
DEWAR 2 NE	2485	6	*****	0	*****	****	0	****	0	******	******	******	******	6.680	31	4.81	2.08	20
EUFAULA	2993	6	46.8	30	*****	79.	8	27.	25	552.0	******	4.5	******	6.990	30	*****	2.05	20
HANNA	3884	6	45.5	31	*****	78.	8	22.	25	609.5	******	6.0	******	7.061	31	4.96	2.16	20
HARTSHORNE	3946	6	*****	0	*****	****	0	****	0	******	******	******	******	6.650	31	*****	1.53	21
HASKELL	3956	6	*****	0	*****	****	0	****	0	******	******	******	******	6.090	31	4.12	1.62	20
HOLDENVILLE	4235	6	45.4	31	2.5	74.	8	23.	25	611.5	-73.5	3.0	3.0	6.540	31	4.71	2.06	20
LAKE EUFAULA	4975	6	45.8	31	*****	80.	9	27.	4	595.5	******	.0	******	5.624	31	*****	1.39	2
LYONS 2 N	5437	6	*****	0	*****	****	0	****	0	******	******	******	******	5.051	31	3.05	1.22	12
MARBLE CITY	5546	6	*****	0	*****	****	0	****	0	******	******	******	******	5.572	31	*****	1.16	21
MCALESTER FAA	5664	6	46.7	31	4.7	79.	8	24.	4	575.0	-138.0	9.0	9.0	4.760	31	2.38	1.58	20
MCCURTAIN 1 SE	5693	6	46.9	31	*****	79.	8	23.	4	568.5	******	7.0	******	5.923	31	3.28	1.40	2
MUSKOGEE	6130	6	45.2	31	3.5	78.	9	23.	5	619.5	-102.5	4.5	4.5	5.841	31	3.60	1.67	19
OKMULGEE W W	6670	6	43.1	30	1.2	75.	9	21.	5	658.0	-58.0	.0	.0	6.462	30	*****	1.90	20
OKTAHA 2 NE	6678	6	*****	0	*****	****	0	****	0	******	******	******	******	5.310	31	*****	1.60	20
QUINTON	7372	6	*****	0	*****	****	0	****	0	******	******	******	******	5.872	31	3.51	1.55	21
SALLISAW 2 NE	7862	6	44.9	31	2.7	79.	8	22.	4	624.0	-83.0	2.0	2.0	5.770	31	3.30	1.85	21
SCIPIO	7979	6	*****	0	*****	****	0	****	0	******	******	******	******	6.850	31	*****	2.31	20
SCRAPER	7993	6	*****	0	*****	****	0	****	0	******	******	******	******	5.220	31	*****	1.67	20
SHORT	8170	6	*****	0	*****	****	0	****	0	******	******	******	******	5.693	31	*****	1.32	20
STILWELL 1 NE	8506	6	44.8	31	*****	76.	8	20.	4	629.5	******	4.0	******	4.661	31	1.95	1.01	21
TAHLEQUAH	8677	6	45.5	31	4.7	80.	8	19.	4	611.0	-139.0	5.0	5.0	5.101	31	2.64	1.85	20
WEBBERS FALLS	9445	6	43.9	31	3.5	78.	9	23.	4	653.0	-110.0	.0	.0	5.271	31	2.98	1.29	21
WESTVILLE	9523	6	*****	0	*****	****	0	****	0	******	******	******	******	4.602	31	*****	1.15	21
WETUMKA 3 NE	9571	6	*****	0	*****	****	0	****	0	******	******	******	******	6.282	31	4.39	2.30	25

DECEMBER 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	44.3	31	1.5	76.	7	25.	3	642.0	-46.0	.0	.0	4.070	31	3.20	1.35	19
ALTUS DAM	184	7	43.1	31	*****	75.	8	25.	25	679.5	******	.0	******	4.550	31	3.70	1.55	12
ANADARKO	224	7	43.7	29	*****	73.	7	23.	24	619.0	******	.0	******	5.310	31	4.12	3.20	19
APACHE	260	7	*****	0	*****	****	0	****	0	******	******	******	******	5.810	31	*****	2.60	20
ALTUS AFB	447	7	*****	0	*****	****	0	****	0	******	******	******	******	3.452	29	*****	1.10	20
CARNEGIE 2 ENE	1504	7	43.3	30	2.2	73.	7	22.	4	651.5	-89.5	.0	.0	3.512	31	2.45	1.31	20
CHATTANOOGA	1706	7	44.6	31	2.2	74.	7	25.	4	631.5	-69.5	.0	.0	5.830	31	4.75	2.32	20
DUNCAN 12 W	2668	7	*****	0	*****	****	0	****	0	******	******	******	******	5.980	31	*****	2.98	19
FREDERICK	3353	7	43.8	30	-.0	74.	8	26.	3	636.5	-20.5	.0	.0	5.010	31	3.99	1.68	20
GRANDFIELD 4 NW	3709	7	*****	0	*****	****	0	****	0	******	******	******	******	4.210	31	2.96	2.37	20
HOBART FAA APT	4204	7	43.0	29	*****	73.	7	27.	24	638.0	******	.0	******	4.102	29	*****	1.30	12
HOLLIS	4249	7	43.9	24	*****	76.	7	23.	4	505.5	******	.0	******	4.300	27	*****	1.40	12
LAWTON	5063	7	43.3	30	1.1	74.	8	27.	28	652.0	-55.0	.0	.0	5.831	31	4.61	2.70	20
FORT SILL	5068	7	44.5	31	*****	74.	7	26.	25	636.0	******	.0	******	5.085	31	3.86	2.12	19
LOOKEBA 2 ENE	5329	7	*****	0	*****	****	0	****	0	******	******	******	******	4.701	31	*****	1.65	20
MANGUM RES STA	5509	7	43.7	31	1.8	76.	7	19.	1	659.5	-56.5	.0	.0	3.840	31	3.08	1.96	12
RANDLETT 9 E	7403	7	*****	0	*****	****	0	****	0	******	******	******	******	7.101	31	*****	2.83	20
ROOSEVELT	7727	7	*****	0	*****	****	0	****	0	******	******	******	******	4.410	31	3.44	1.30	19
SEDAN	8016	7	*****	0	*****	****	0	****	0	******	******	******	******	3.901	31	*****	1.53	20
SNYDER	8299	7	*****	0	*****	****	0	****	0	******	******	******	******	5.282	31	4.26	1.42	20
VINSON 3 WNW	9212	7	*****	0	*****	****	0	****	0	******	******	******	******	3.920	31	3.14	1.39	12
WALTERS	9278	7	45.7	31	2.2	75.	7	26.	25	597.0	-70.0	.0	.0	5.870	31	4.45	2.80	20
WICHITA MT WLR	9629	7	41.3	31	.1	72.	8	21.	25	735.0	-3.0	.0	.0	5.820	31	4.70	2.00	11
WILLOW	9668	7	*****	0	*****	****	0	****	0	******	******	******	******	4.710	31	*****	1.56	12

DECEMBER 1991 SUMMARY FOR SOUTH CENTRAL DIVISION (CD8)

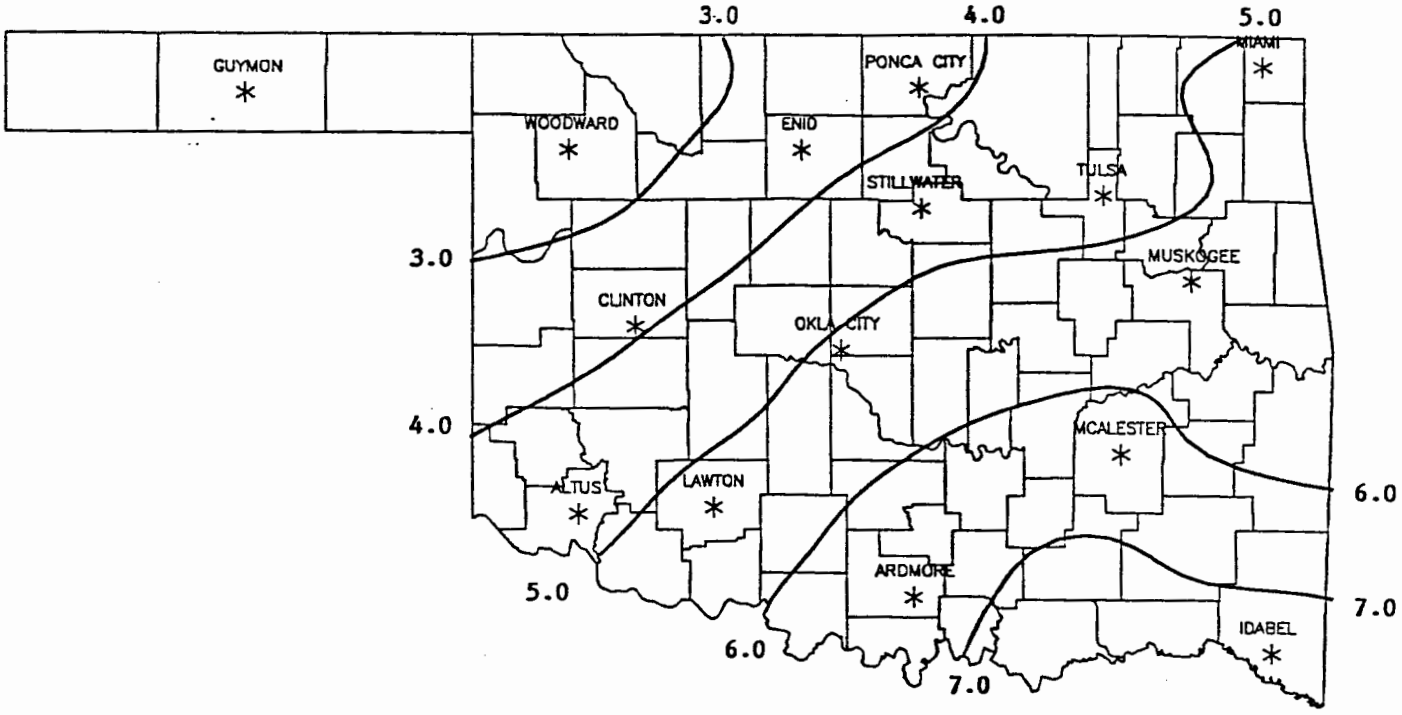
NAME	ID	CD	MEAN TEMP	NUM OBS	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
ADA	17	8	45.0	31	1.5	75.	8	25.	3	620.0	-47.0	.5	.5	6.600	31	4.66	1.92	20
ALLEN	147	8	*****	0	*****	****	0	****	0	******	******	******	******	8.750	31	*****	2.60	20
ATOKA DAM	394	8	46.9	20	*****	76.	9	25.	4	362.0	******	.0	******	8.111	20	*****	2.70	23
BOKCHITO	917	8	*****	0	*****	****	0	****	0	******	******	******	******	7.110	31	*****	1.42	21
CENTRAHOMA	1648	8	*****	0	*****	****	0	****	0	******	******	******	******	6.800	31	*****	2.00	20
CHICKASAW NRA	1745	8	44.9	31	*****	76.	9	22.	25	623.0	******	.0	******	6.260	31	*****	1.84	20
COLEMAN	2011	8	*****	0	*****	****	0	****	0	******	******	******	******	7.640	31	*****	2.10	20
COMANCHE	2054	8	*****	0	*****	****	0	****	0	******	******	******	******	6.610	31	*****	2.62	20
DAISY 4 ENE	2354	8	*****	0	*****	****	0	****	0	******	******	******	******	8.524	31	5.86	1.89	20
DUNCAN	2660	8	45.1	30	1.4	74.	8	27.	3	598.0	-62.0	.0	.0	6.921	30	*****	2.80	20
DURANT USDA	2678	8	46.3	31	*****	76.	9	25.	3	581.0	******	.0	******	8.140	31	5.96	2.68	23
ELMORE CITY	2872	8	*****	0	*****	****	0	****	0	******	******	******	******	6.860	31	*****	2.45	19
FARRIS 3 WNW	3083	8	*****	0	*****	****	0	****	0	******	******	******	******	7.590	31	*****	1.56	20
GRADY	3688	8	*****	0	*****	****	0	****	0	******	******	******	******	5.980	31	*****	2.60	19
HEALDTON	4001	8	45.6	28	*****	74.	8	21.	25	547.0	******	2.5	******	5.850	31	4.24	2.06	20
HENNEPIN	4052	8	*****	0	*****	****	0	****	0	******	******	******	******	6.213	31	*****	1.93	20
KETCHUM RANCH	4780	8	*****	0	*****	****	0	****	0	******	******	******	******	7.440	31	*****	2.15	20
KINGSTON	4865	8	*****	0	*****	****	0	****	0	******	******	******	******	7.370	31	5.36	2.40	21
LEHIGH	5108	8	*****	0	*****	****	0	****	0	******	******	******	******	8.405	31	*****	1.60	21
LINDSAY 2 W	5216	8	44.8	31	*****	73.	7	24.	25	626.5	******	.0	******	5.883	31	4.41	2.60	19
LOCO 6 SE	5247	8	*****	0	*****	****	0	****	0	******	******	******	******	5.600	31	*****	2.32	20
MADILL	5468	8	47.5	31	2.7	76.	8	24.	24	550.0	-76.0	8.5	8.5	5.970	31	4.00	1.39	19
MARIETTA	5563	8	48.2	31	3.4	78.	8	26.	3	526.0	-100.0	6.0	6.0	7.680	31	5.98	1.82	20
MARLOW 1 WSW	5581	8	45.4	31	*****	75.	7	24.	3	606.5	******	.0	******	5.632	31	4.27	2.69	20
MCGEE CREEK DAM	5713	8	46.0	31	*****	76.	10	25.	15	589.0	******	.0	******	7.260	31	*****	1.37	2
PAULS VALLEY	6926	8	45.7	31	2.9	74.	8	21.	25	597.0	-91.0	.0	.0	6.671	31	4.96	2.50	20
PONTOTOC	7214	8	*****	0	*****	****	0	****	0	******	******	******	******	7.220	31	5.35	2.10	19
TISHOMINGO NWLR	8884	8	46.5	27	*****	76.	8	23.	4	499.5	******	.5	******	8.180	31	6.10	2.10	20
TUSSY	9032	8	*****	0	*****	****	0	****	0	******	******	******	******	6.570	31	*****	2.25	20
WAURIKA	9395	8	47.0	31	2.4	77.	7	25.	25	560.0	-72.0	1.5	1.5	5.520	31	4.04	1.78	21
WAURIKA DAM	9399	8	45.7	23	*****	76.	9	28.	26	443.5	******	.0	******	6.051	22	*****	2.65	20

DECEMBER 1991 SUMMARY FOR SOUTHEAST DIVISION (CD9)

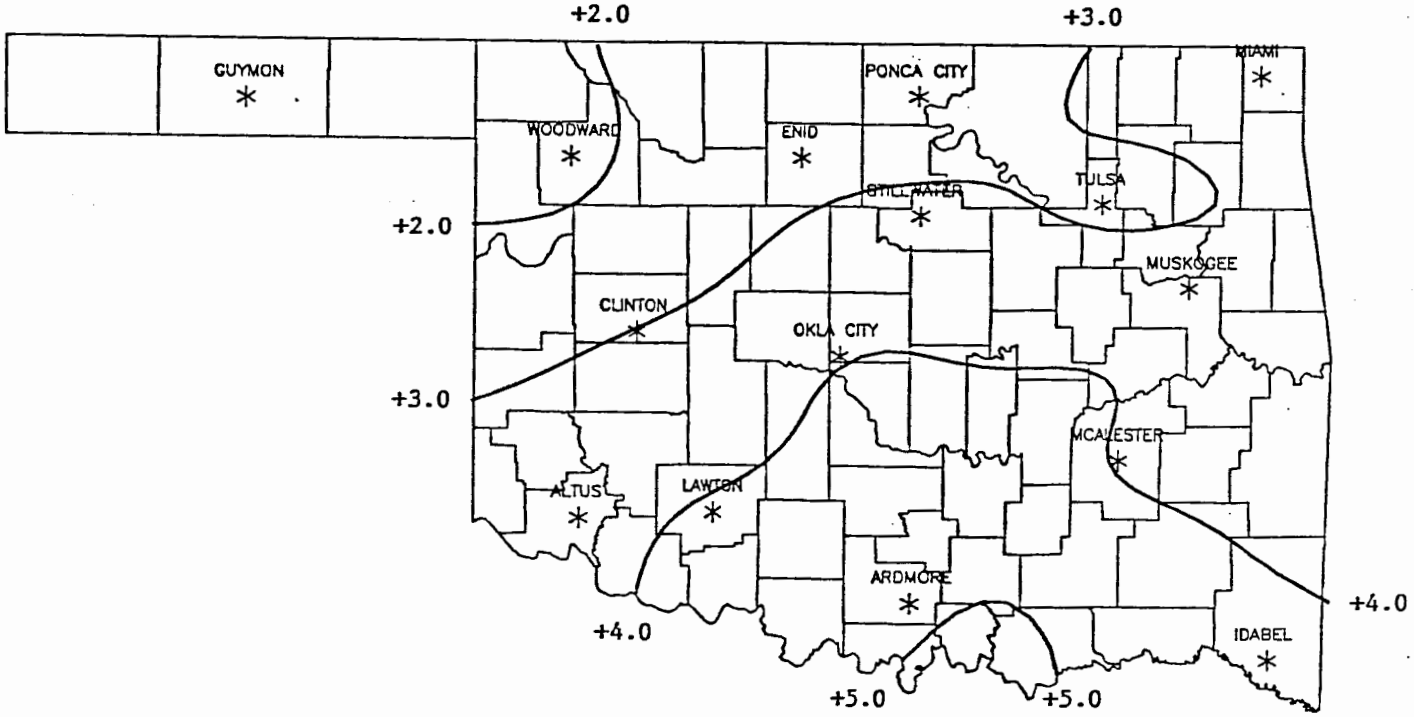
NAME	ID	CD	MEAN TEMP	NUM OBS	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
ANTLERS	256	9	47.2	31	3.5	77.	8	24.	15	555.5	-104.5	5.0	5.0	6.290	31	3.27	2.18	20
BATTIEST 1 SSW	567	9	44.9	31	*****	72.	8	21.	15	623.0	******	1.0	******	8.420	31	*****	2.64	9
BEAR MT TWR	584	9	47.3	20	*****	73.	9	28.	26	355.0	******	.0	******	7.250	31	3.15	1.95	9
BENGAL	670	9	*****	0	*****	****	0	****	0	******	******	******	******	5.721	31	*****	1.37	20
BOSWELL 4 NNW	980	9	47.5	31	*****	79.	8	24.	4	549.5	******	7.0	******	7.674	31	5.03	1.47	21
BROKEN BOW 1 N	1162	9	*****	0	*****	****	0	****	0	******	******	******	******	8.110	31	4.29	4.10	8
BROKEN BOW DAM	1168	9	47.4	31	*****	75.	9	26.	5	545.0	******	.0	******	9.070	31	*****	2.94	9
CARNASAW TWR	1499	9	*****	0	*****	****	0	****	0	******	******	******	******	7.890	31	3.99	2.80	9
CARTER TWR	1544	9	*****	0	*****	****	0	****	0	******	******	******	******	7.010	31	3.10	1.85	9
FANSHAWE	3065	9	*****	0	*****	****	0	****	0	******	******	******	******	5.911	31	2.97	1.34	20
FLAGPOLE TWR	3169	9	*****	0	*****	****	0	****	0	******	******	******	******	6.370	31	*****	2.50	23
HEAVENER 1 SE	4008	9	*****	0	*****	****	0	****	0	******	******	******	******	6.091	31	2.87	1.10	2
HEE MT TWR	4017	9	*****	0	*****	****	0	****	0	******	******	******	******	6.541	31	*****	2.38	9
HUGO	4384	9	47.5	31	1.8	76.	8	28.	25	541.5	-56.5	.0	.0	7.420	31	4.34	1.80	9
IDABEL	4451	9	46.8	31	1.8	73.	9	23.	20	564.0	-56.0	.0	.0	8.411	31	4.94	2.66	9
POTEAU W W	7254	9	44.8	31	*****	78.	9	21.	24	625.5	******	.0	******	5.062	31	*****	1.17	20
SMITHVILLE 1 W	8285	9	43.9	31	*****	74.	8	17.	25	656.0	******	.5	******	8.738	31	*****	2.65	9
SPIRO	8416	9	*****	0	*****	****	0	****	0	******	******	******	******	5.580	31	2.79	1.05	2
TUSKAHOMA	9023	9	47.6	31	*****	79.	8	22.	25	546.0	******	6.5	******	5.762	31	*****	1.30	21
VALLIANT 3 W	9118	9	*****	0	*****	****	0	****	0	******	******	******	******	8.530	31	4.93	2.57	9
WILBURTON 9 ENE	9634	9	46.1	31	3.2	80.	8	22.	25	594.0	-91.0	7.5	7.5	5.531	31	2.66	1.30	20

DECEMBER 1991 CLIMATE DIVISION SUMMARY

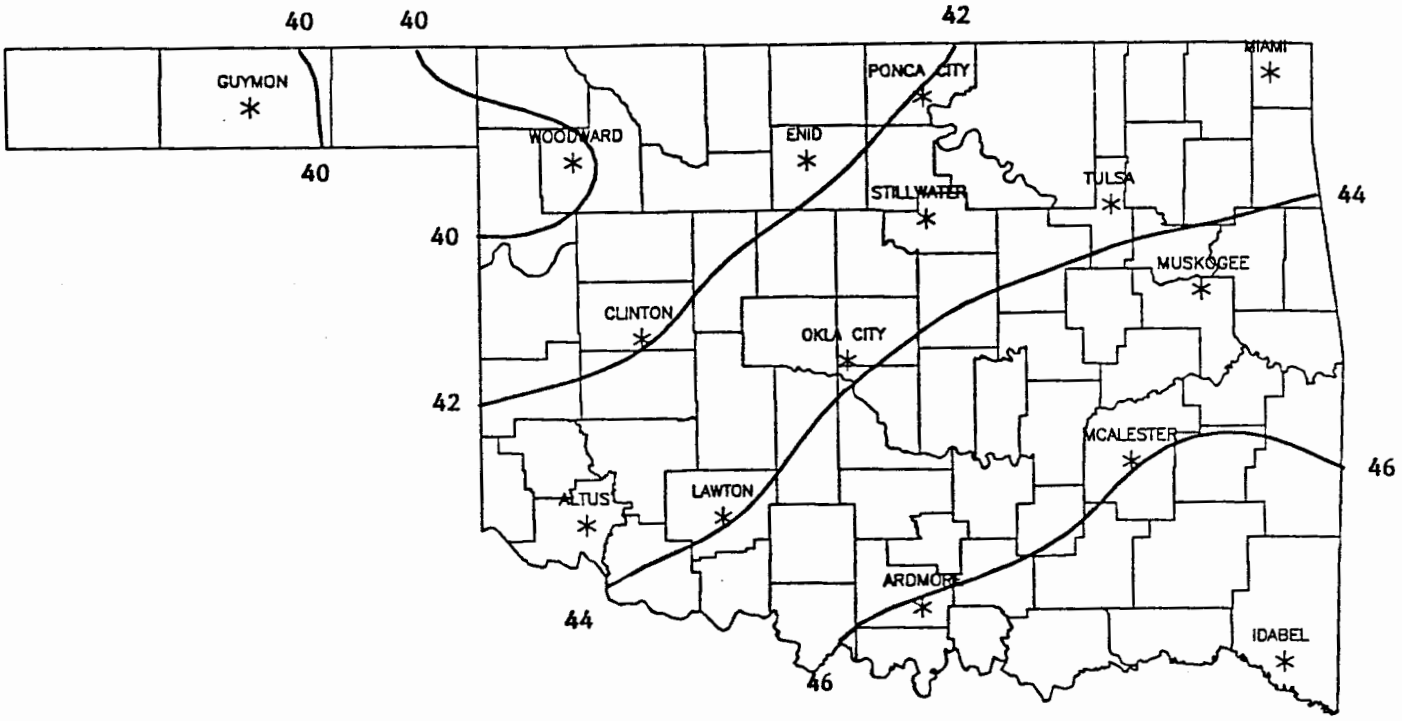
CLIMATE DIV	MEAN TEMP	NUM STA	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEGREE DAYS	DEV FROM NORM	COOL DEGREE DAYS	DEV FROM NORM	TOT PPT	NUM STA	DEV FROM NORM	MAX 24-HR	DAY
1	37.8	10	.8	77.0	7	13.0	2	843.6	-26.3	.0	.0	1.92	12	1.42	1.00	31
2	41.0	15	2.7	81.0	1	14.0	3	744.1	-82.2	.0	.0	3.18	23	2.18	2.80	19
3	43.0	16	3.7	78.0	8	14.0	3	682.7	-115.2	.8	.8	4.59	31	2.94	3.47	20
4	41.7	8	2.0	76.0	7	21.0	24	721.4	-61.1	.0	.0	3.52	19	2.73	1.80	12
5	44.1	16	3.5	76.0	8	20.0	25	647.0	-107.6	.3	.3	5.38	37	4.00	2.97	20
6	45.4	12	3.7	80.0	8	19.0	4	608.9	-113.4	3.8	3.8	5.81	27	3.60	2.40	20
7	43.8	10	1.7	76.0	7	19.0	1	652.0	-60.5	.0	.0	4.99	21	3.97	3.20	19
8	46.0	11	2.0	78.0	8	21.0	25	588.8	-61.0	1.5	1.5	6.94	28	5.13	2.80	20
9	46.4	10	2.1	80.0	8	17.0	25	580.0	-60.8	2.8	2.8	7.02	21	3.68	4.10	8



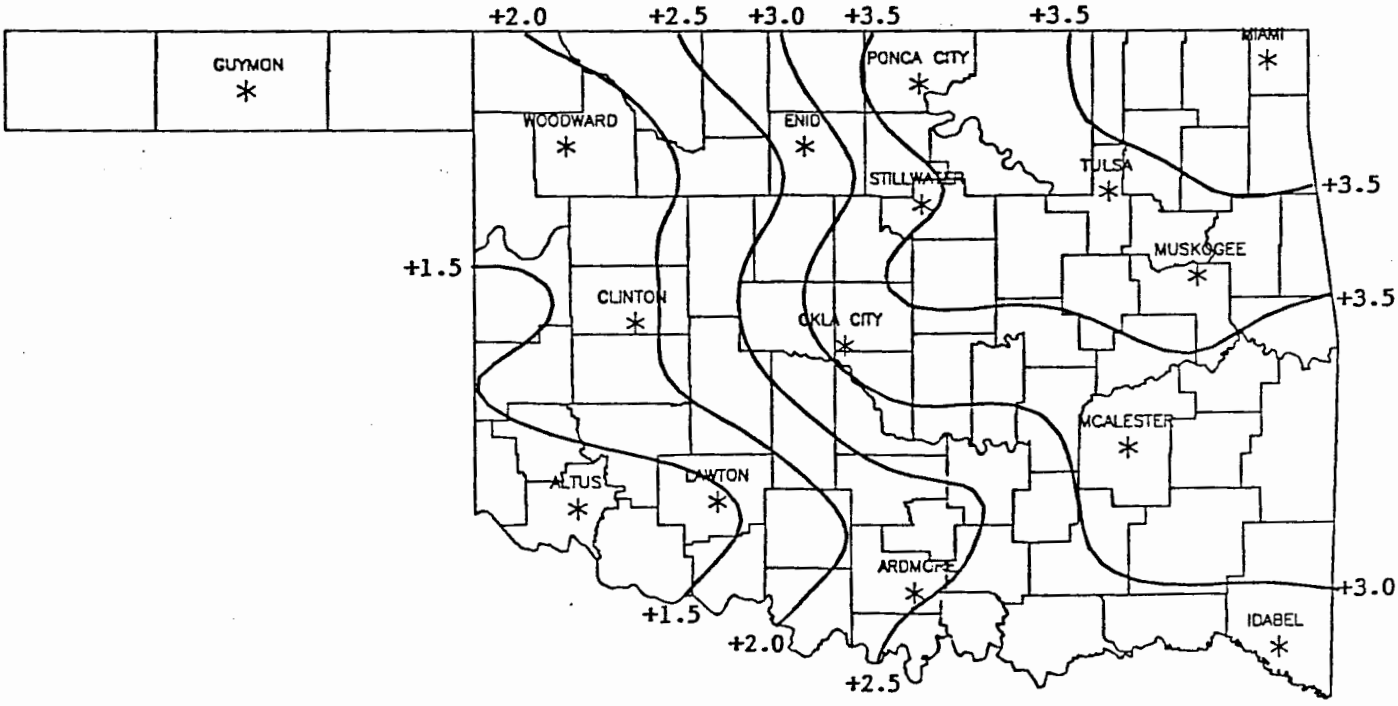
DECEMBER 1991 TOTAL PRECIPITATION
(Inches)



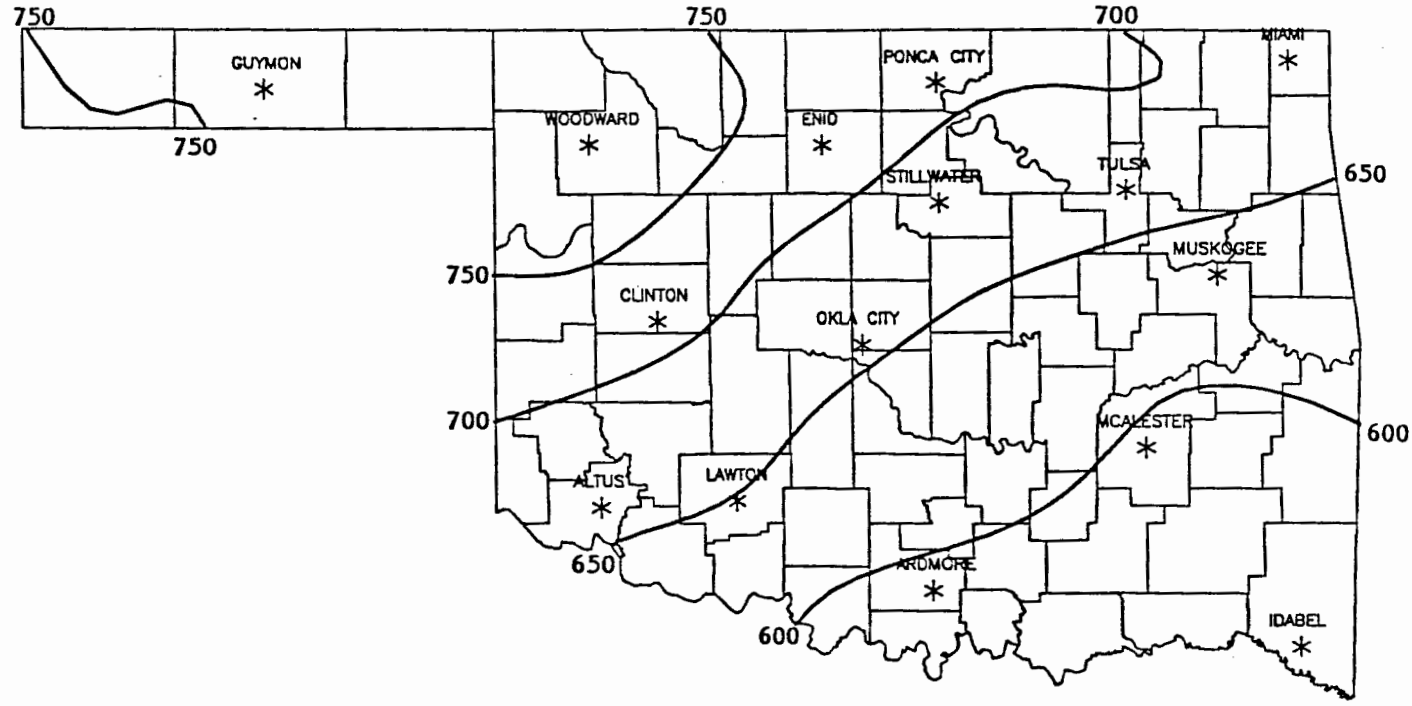
DECEMBER 1991 DEVIATION FROM NORMAL PRECIPITATION
(Inches)



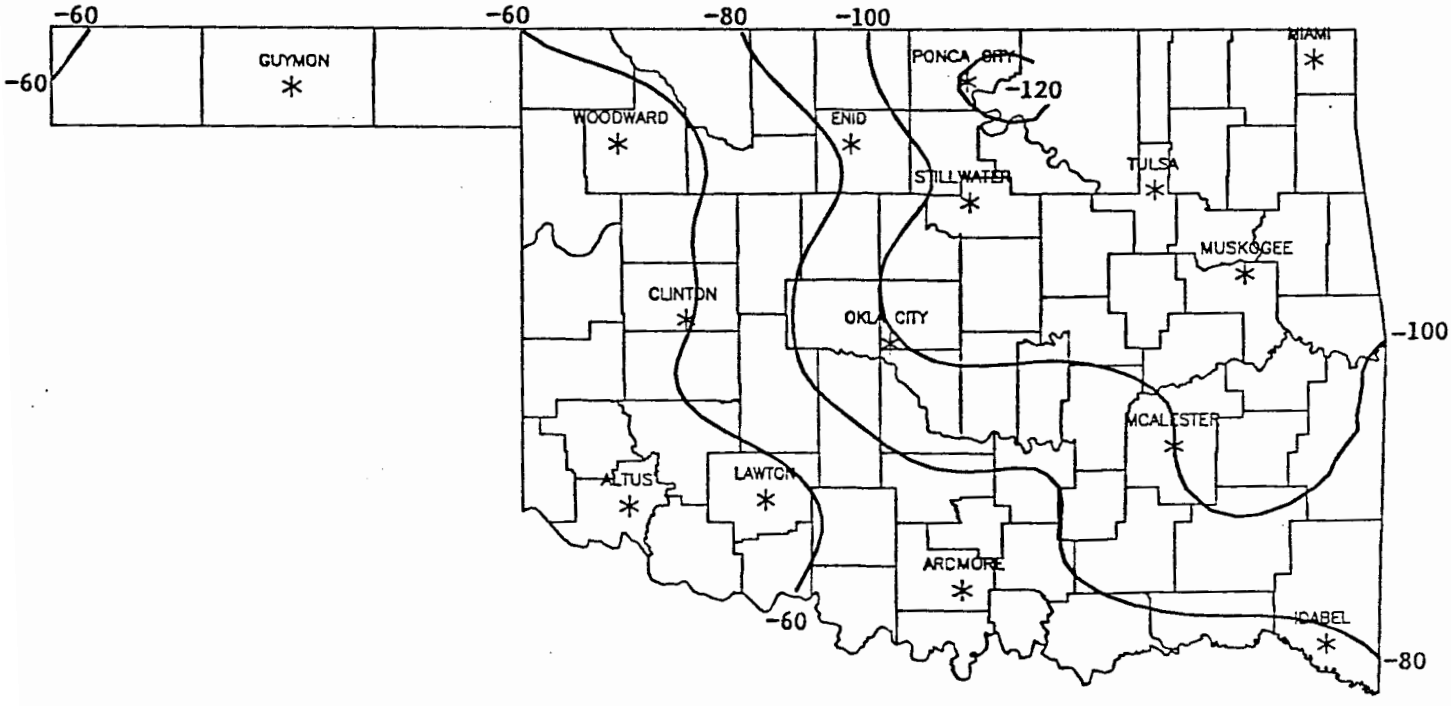
DECEMBER 1991 AVERAGE MONTHLY TEMPERATURES
(Degrees F)



DECEMBER 1991 DEVIATION FROM NORMAL TEMPERATURES
(Degrees F)

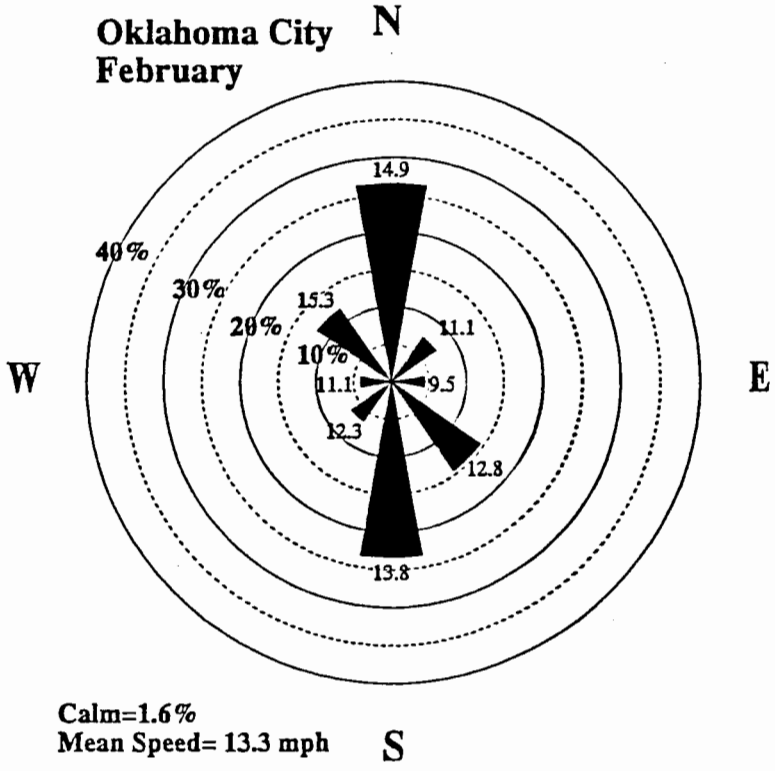


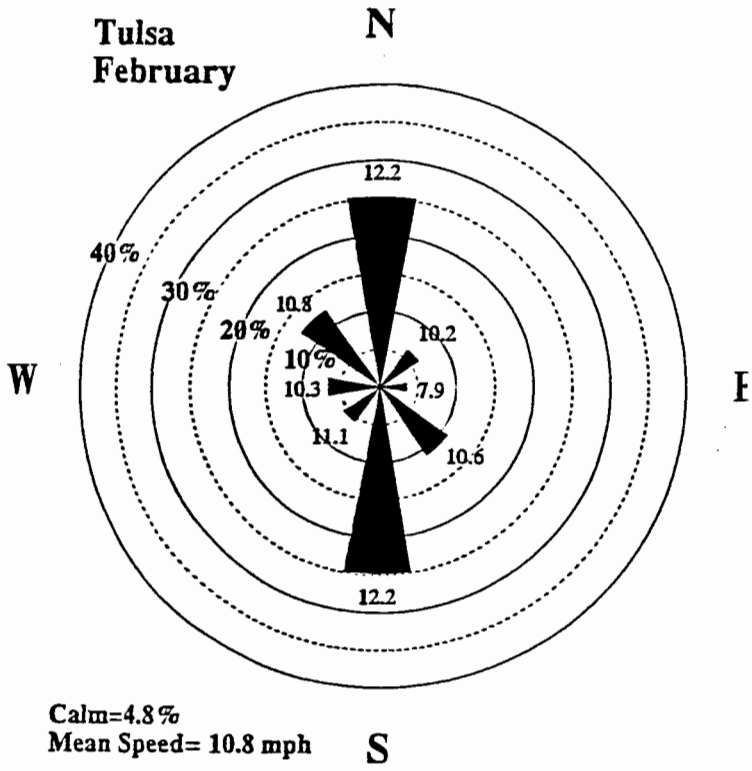
DECEMBER 1991 HEATING DEGREE DAYS



DECEMBER 1991 DEVIATION FROM NORMAL HEATING DEGREE DAYS

February wind roses for Oklahoma City and Tulsa. Percents represent the percentage of 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.





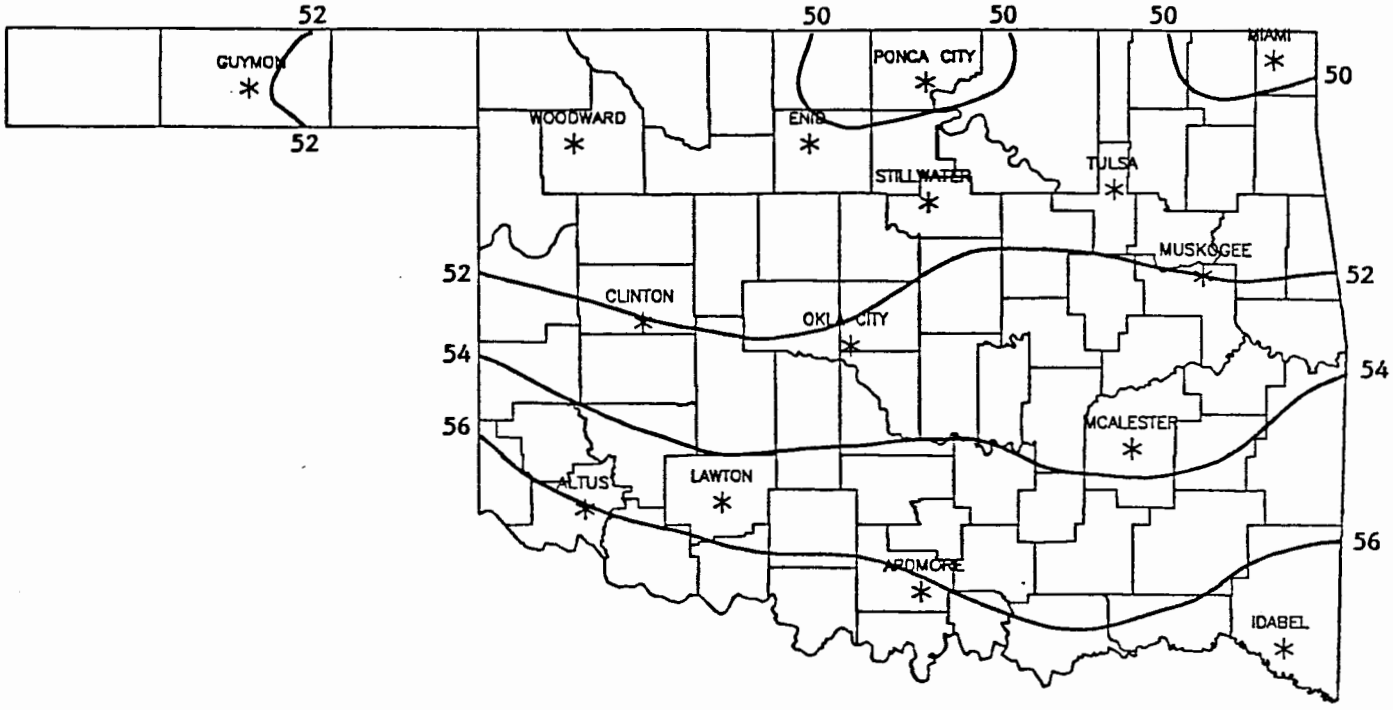
FEBRUARY 1992 SUNRISE AND SUNSET

Oklahoma City

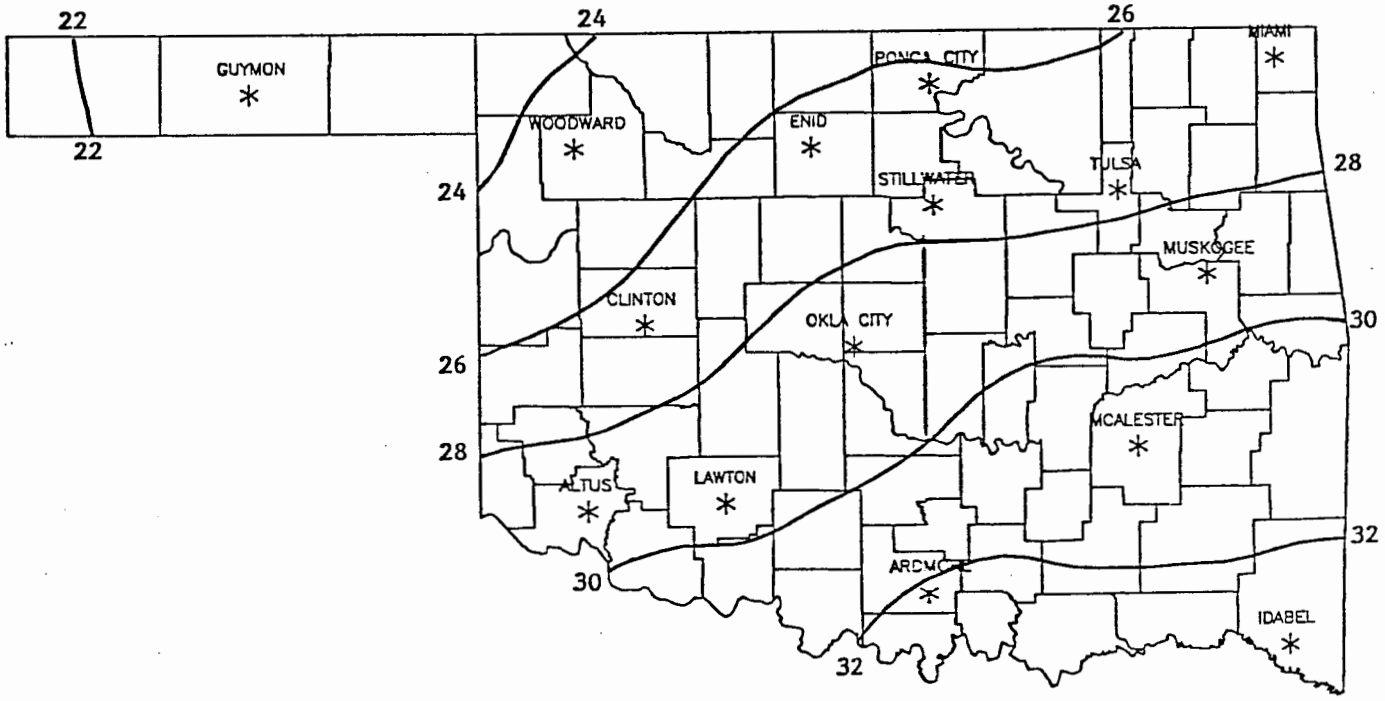
DATE	SUNRISE	SUNSET	DAYLIGHT
92 2 1	7:30AM	5:58PM CST	10 hrs 28 mins
92 2 2	7:29AM	5:59PM CST	10 hrs 29 mins
92 2 3	7:28AM	6: 0PM CST	10 hrs 31 mins
92 2 4	7:28AM	6: 1PM CST	10 hrs 33 mins
92 2 5	7:27AM	6: 2PM CST	10 hrs 35 mins
92 2 6	7:26AM	6: 3PM CST	10 hrs 36 mins
92 2 7	7:25AM	6: 4PM CST	10 hrs 38 mins
92 2 8	7:24AM	6: 5PM CST	10 hrs 40 mins
92 2 9	7:24AM	6: 6PM CST	10 hrs 42 mins
92 210	7:23AM	6: 7PM CST	10 hrs 44 mins
92 211	7:22AM	6: 8PM CST	10 hrs 46 mins
92 212	7:21AM	6: 9PM CST	10 hrs 48 mins
92 213	7:20AM	6:10PM CST	10 hrs 50 mins
92 214	7:19AM	6:11PM CST	10 hrs 52 mins
92 215	7:18AM	6:12PM CST	10 hrs 54 mins
92 216	7:17AM	6:13PM CST	10 hrs 56 mins
92 217	7:16AM	6:13PM CST	10 hrs 58 mins
92 218	7:15AM	6:14PM CST	11 hrs 0 mins
92 219	7:14AM	6:15PM CST	11 hrs 2 mins
92 220	7:13AM	6:16PM CST	11 hrs 4 mins
92 221	7:11AM	6:17PM CST	11 hrs 6 mins
92 222	7:10AM	6:18PM CST	11 hrs 8 mins
92 223	7: 9AM	6:19PM CST	11 hrs 10 mins
92 224	7: 8AM	6:20PM CST	11 hrs 12 mins
92 225	7: 7AM	6:21PM CST	11 hrs 14 mins
92 226	7: 5AM	6:22PM CST	11 hrs 16 mins
92 227	7: 4AM	6:23PM CST	11 hrs 19 mins
92 228	7: 3AM	6:24PM CST	11 hrs 21 mins
92 229	7: 2AM	6:25PM CST	11 hrs 23 mins

Tulsa

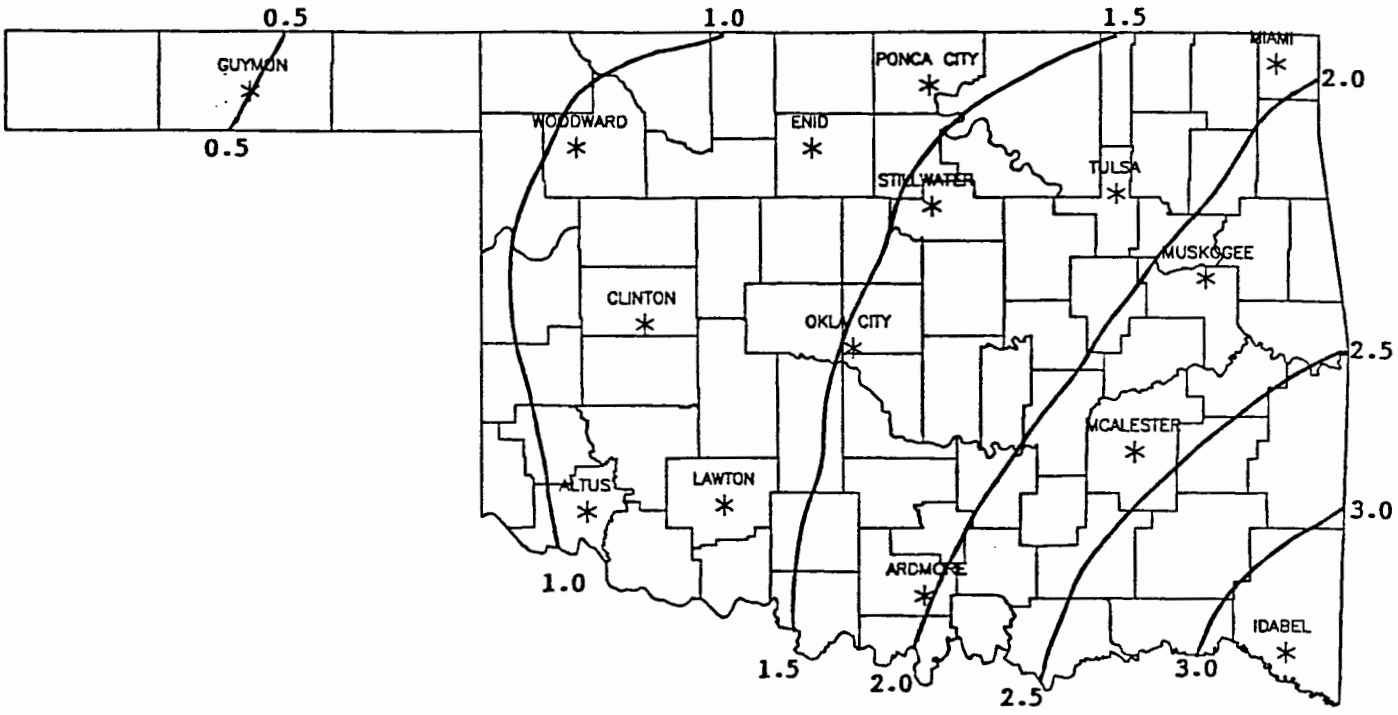
DATE	SUNRISE	SUNSET	DAYLIGHT
92 2 1	7:25AM	5:49PM CST	10 hrs 25 mins
92 2 2	7:24AM	5:50PM CST	10 hrs 27 mins
92 2 3	7:23AM	5:51PM CST	10 hrs 28 mins
92 2 4	7:22AM	5:52PM CST	10 hrs 30 mins
92 2 5	7:22AM	5:54PM CST	10 hrs 32 mins
92 2 6	7:21AM	5:55PM CST	10 hrs 34 mins
92 2 7	7:20AM	5:56PM CST	10 hrs 36 mins
92 2 8	7:19AM	5:57PM CST	10 hrs 38 mins
92 2 9	7:18AM	5:58PM CST	10 hrs 40 mins
92 210	7:17AM	5:59PM CST	10 hrs 42 mins
92 211	7:16AM	6: 0PM CST	10 hrs 43 mins
92 212	7:15AM	6: 1PM CST	10 hrs 45 mins
92 213	7:14AM	6: 2PM CST	10 hrs 47 mins
92 214	7:13AM	6: 3PM CST	10 hrs 50 mins
92 215	7:12AM	6: 4PM CST	10 hrs 52 mins
92 216	7:11AM	6: 5PM CST	10 hrs 54 mins
92 217	7:10AM	6: 6PM CST	10 hrs 56 mins
92 218	7: 9AM	6: 7PM CST	10 hrs 58 mins
92 219	7: 8AM	6: 8PM CST	11 hrs 0 mins
92 220	7: 7AM	6: 9PM CST	11 hrs 2 mins
92 221	7: 5AM	6:10PM CST	11 hrs 4 mins
92 222	7: 4AM	6:11PM CST	11 hrs 6 mins
92 223	7: 3AM	6:12PM CST	11 hrs 8 mins
92 224	7: 2AM	6:13PM CST	11 hrs 11 mins
92 225	7: 1AM	6:13PM CST	11 hrs 13 mins
92 226	6:59AM	6:14PM CST	11 hrs 15 mins
92 227	6:58AM	6:15PM CST	11 hrs 17 mins
92 228	6:57AM	6:16PM CST	11 hrs 19 mins
92 229	6:56AM	6:17PM CST	11 hrs 22 mins



30-YEAR MEAN FEBRUARY DAILY MAXIMUM TEMPERATURE



30-YEAR MEAN FEBRUARY DAILY MINIMUM TEMPERATURE



30-YEAR MEAN FEBRUARY MONTHLY PRECIPITATION

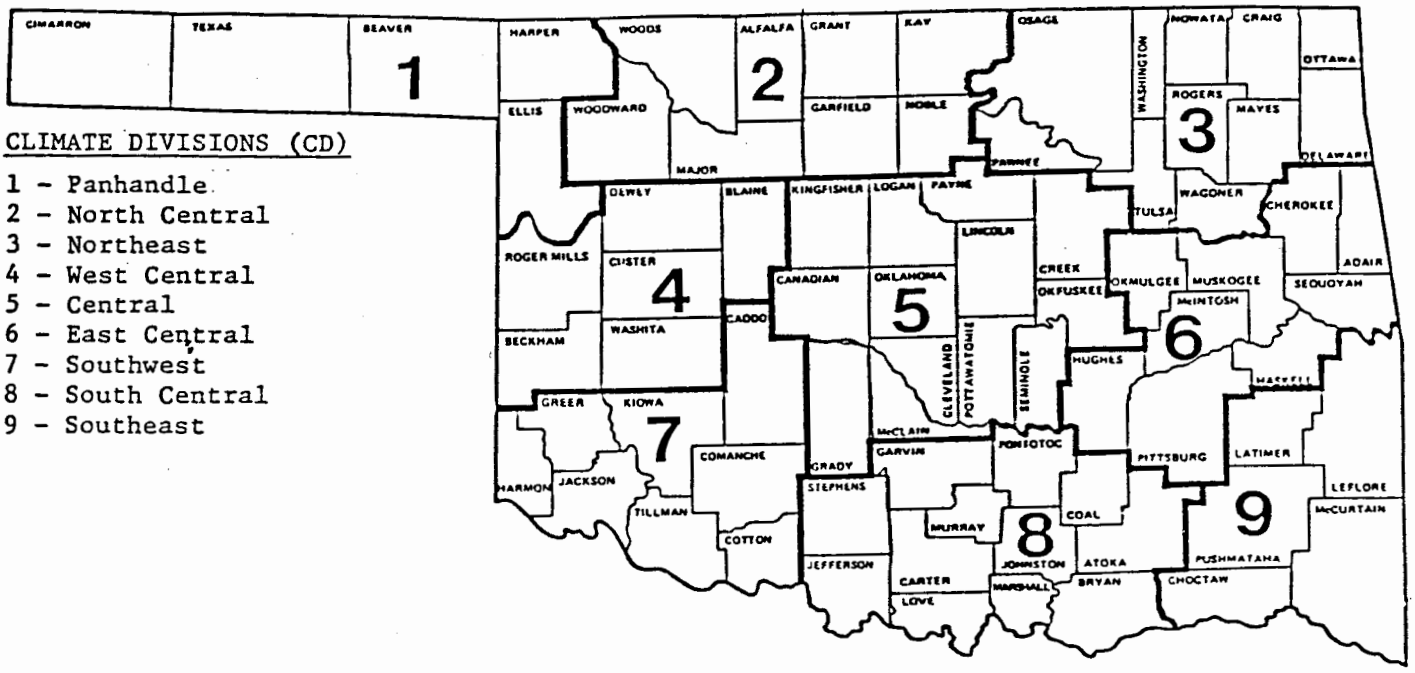
90-DAY NATIONAL WEATHER SERVICE OUTLOOK

(January - March 1992)

Precipitation - Near Normal Statewide

Temperature - Near Normal Statewide

OKLAHOMA



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.

OKLAHOMA CITY CLIMATE CALENDAR

February 1992

The data on this calendar are for Oklahoma City. Normal values are calculated for the period 1961-1990. Extremes are found for the period of record (1891-present).

Normal 1	Actual	Normal 2	Actual	Normal 3	Actual	Normal 4	Actual	Normal 5	Actual	Normal 6	Actual	Normal 7	Actual
48.0 max		45.0 max		47.0 max		50.0 max		48.0 max		45.0 max		47.0 max	
28.0 min		26.0 min		27.0 min		29.0 min		28.0 min		26.0 min		25.0 min	
.040 ppt		.030 ppt		.060 ppt		.070 ppt		.090 ppt		.020 ppt		.050 ppt	
27 hdd		29 hdd		28 hdd		26 hdd		27 hdd		29 hdd		29 hdd	
0 cdd		0 cdd		0 cdd		0 cdd		0 cdd		0 cdd		0 cdd	
Highest Max	90-1911	Highest Max	76-1924	Highest Max	78-1962	Highest Max	77-1962	Highest Max	77-1942	Highest Max	73-1904	Highest Max	76-1937
Lowest Max	14-1918	Lowest Max	10-1905	Lowest Max	7-1905	Lowest Max	15-1989	Lowest Max	16-1982	Lowest Max	16-1905	Lowest Max	6-1933
Lowest Min	-2-1951	Lowest Min	-4-1895	Lowest Min	0-1989	Lowest Min	-1-1895	Lowest Min	3-1989	Lowest Min	3-1895	Lowest Min	-8-1895
Highest Min	59-1986	Highest Min	58-1986	Highest Min	58-1986	Highest Min	58-1927	Highest Min	57-1938	Highest Min	54-1931	Highest Min	60-1894
Greatest Ppt	.71-1990	Greatest Ppt	.88-1943	Greatest Ppt	1.13-1960	Greatest Ppt	1.32-1964	Greatest Ppt	1.05-1987	Greatest Ppt	1.38-1892	Greatest Ppt	.84-1980

Normal 8	Actual	Normal 9	Actual	Normal 10	Actual	Normal 11	Actual	Normal 12	Actual	Normal 13	Actual	Normal 14	Actual
49.0 max		51.0 max		53.0 max		49.0 max		52.0 max		54.0 max		52.0 max	
28.0 min		28.0 min		27.0 min		28.0 min		29.0 min		30.0 min		32.0 min	
.060 ppt		.040 ppt		.030 ppt		.060 ppt		.080 ppt		.040 ppt		.100 ppt	
27 hdd		26 hdd		25 hdd		26 hdd		25 hdd		23 hdd		23 hdd	
0 cdd		0 cdd		0 cdd		0 cdd		0 cdd		0 cdd		0 cdd	
Highest Max	73-1943	Highest Max	84-1932	Highest Max	79-1922	Highest Max	82-1962	Highest Max	84-1962	Highest Max	82-1962	Highest Max	81-1954
Lowest Max	12-1929	Lowest Max	16-1899	Lowest Max	16-1933	Lowest Max	15-1899	Lowest Max	2-1905	Lowest Max	21-1905	Lowest Max	18-1951
Lowest Min	-5-1933	Lowest Min	-3-1979	Lowest Min	4-1929	Lowest Min	-12-1899	Lowest Min	-17-1899	Lowest Min	-11-1905	Lowest Min	1-1936
Highest Min	53-1966	Highest Min	51-1932	Highest Min	52-1952	Highest Min	57-1938	Highest Min	57-1962	Highest Min	54-1976	Highest Min	55-1954
Greatest Ppt	.62-1966	Greatest Ppt	2.10-1898	Greatest Ppt	.50-1953	Greatest Ppt	1.12-1977	Greatest Ppt	2.21-1978	Greatest Ppt	.76-1908	Greatest Ppt	.89-1938

Normal 15	Actual	Normal 16	Actual	Normal 17	Actual	Normal 18	Actual	Normal 19	Actual	Normal 20	Actual	Normal 21	Actual
50.0 max		51.0 max		54.0 max		55.0 max		54.0 max		55.0 max		51.0 max	
31.0 min		30.0 min		30.0 min		32.0 min		32.0 min		32.0 min		31.0 min	
.060 ppt		.020 ppt		.040 ppt		.040 ppt		.050 ppt		.080 ppt		.100 ppt	
25 hdd		24 hdd		23 hdd		22 hdd		22 hdd		22 hdd		24 hdd	
0 cdd		0 cdd		0 cdd		0 cdd		0 cdd		0 cdd		0 cdd	
Highest Max	81-1954	Highest Max	81-1927	Highest Max	79-1991	Highest Max	78-1986	Highest Max	83-1986	Highest Max	84-1981	Highest Max	79-1935
Lowest Max	17-1909	Lowest Max	15-1903	Lowest Max	17-1936	Lowest Max	24-1936	Lowest Max	21-1929	Lowest Max	25-1918	Lowest Max	25-1911
Lowest Min	7-1909	Lowest Min	4-1903	Lowest Min	5-1900	Lowest Min	-1-1978	Lowest Min	7-1903	Lowest Min	9-1918	Lowest Min	9-1939
Highest Min	53-1976	Highest Min	63-1911	Highest Min	60-1926	Highest Min	53-1971	Highest Min	49-1906	Highest Min	55-1894	Highest Min	58-1922
Greatest Ppt	.93-1938	Greatest Ppt	2.16-1940	Greatest Ppt	.88-1961	Greatest Ppt	.88-1946	Greatest Ppt	.68-1954	Greatest Ppt	1.31-1985	Greatest Ppt	1.63-1971

Normal 22	Actual	Normal 23	Actual	Normal 24	Actual	Normal 25	Actual	Normal 26	Actual	Normal 27	Actual	Normal 28	Actual
54.0 max		54.0 max		54.0 max		58.0 max		59.0 max		58.0 max		57.0 max	
32.0 min		33.0 min		32.0 min		34.0 min		34.0 min		34.0 min		34.0 min	
.070 ppt		.030 ppt		.050 ppt		.020 ppt		.030 ppt		.080 ppt		.070 ppt	
22 hdd		22 hdd		22 hdd		19 hdd		19 hdd		19 hdd		19 hdd	
0 cdd		0 cdd		0 cdd		0 cdd		0 cdd		0 cdd		0 cdd	
Highest Max	83-1982	Highest Max	88-1918	Highest Max	87-1918	Highest Max	84-1917	Highest Max	78-1986	Highest Max	83-1918	Highest Max	90-1904
Lowest Max	24-1968	Lowest Max	21-1914	Lowest Max	19-1960	Lowest Max	27-1960	Lowest Max	21-1934	Lowest Max	25-1962	Lowest Max	19-1922
Lowest Min	11-1963	Lowest Min	7-1910	Lowest Min	7-1965	Lowest Min	10-1960	Lowest Min	10-1891	Lowest Min	12-1962	Lowest Min	7-1962
Highest Min	55-1985	Highest Min	52-1956	Highest Min	58-1930	Highest Min	56-1944	Highest Min	59-1981	Highest Min	56-1981	Highest Min	62-1904
Greatest Ppt	1.15-1985	Greatest Ppt	.81-1985	Greatest Ppt	.94-1952	Greatest Ppt	.74-1936	Greatest Ppt	1.34-1903	Greatest Ppt	1.32-1966	Greatest Ppt	.98-1990

Normal 29	Actual
56.0 max	
31.0 min	
.040 ppt	
22 hdd	
0 cdd	
Highest Max	81-1972
Lowest Max	22-1960
Lowest Min	13-1960
Highest Min	68-1932
Greatest Ppt	.42-1948

FEBRUARY AVERAGES

Temperature	:	**41.1°F**
Precipitation	:	**1.57"**
Heating Degree Days	:	**696**
Cooling Degree Days	:	**0**

TULSA CLIMATE CALENDAR

February 1992

The data on this calendar are for Tulsa. Normal values are calculated for the period 1948-1987. Temperature extremes are for the period 1905-1990; precipitation extremes are for the period 1948-1990.

Normal 1	Actual	Normal 2	Actual	Normal 3	Actual	Normal 4	Actual	Normal 5	Actual	Normal 6	Actual	Normal 7	Actual
48.0 max		46.0 max		48.0 max		50.0 max		48.0 max		46.0 max		47.0 max	
27.0 min		26.0 min		27.0 min		29.0 min		29.0 min		27.0 min		26.0 min	
.090 ppt		.020 ppt		.030 ppt		.120 ppt		.090 ppt		.040 ppt		.070 ppt	
27 hdd		29 hdd		27 hdd		25 hdd		26 hdd		28 hdd		28 hdd	
0 cdd		0 cdd		0 cdd		0 cdd		0 cdd		0 cdd		0 cdd	
Highest Max 90-1911		Highest Max 76-1924		Highest Max 79-1934		Highest Max 77-1962		Highest Max 75-1942		Highest Max 73-1925		Highest Max. 78-1909	
Lowest Max 15-1951		Lowest Max 25-1985		Lowest Max 13-1989		Lowest Max 16-1989		Lowest Max 19-1982		Lowest Max 21-1989		Lowest Max 27-1985	
Lowest Min -7-1979		Lowest Min 0-1917		Lowest Min 59-1986		Lowest Min 51-1991		Lowest Min 47-1974		Lowest Min 48-1965		Lowest Min 49-1970	
Highest Min 53-1986		Highest Min 56-1986		Highest Min 1-1989		Highest Min 2-1989		Highest Min 4-1979		Highest Min 4-1985		Highest Min 0-1933	
Greatest Ppt .63-1968		Greatest Ppt .16-1975		Greatest Ppt .53-1960		Greatest Ppt 2.27-1971		Greatest Ppt 1.36-1964		Greatest Ppt .36-1979		Greatest Ppt .76-1980	

Normal 8	Actual	Normal 9	Actual	Normal 10	Actual	Normal 11	Actual	Normal 12	Actual	Normal 13	Actual	Normal 14	Actual
49.0 max		49.0 max		53.0 max		50.0 max		50.0 max		53.0 max		52.0 max	
27.0 min		28.0 min		27.0 min		28.0 min		29.0 min		29.0 min		32.0 min	
.030 ppt		.060 ppt		.030 ppt		.080 ppt		.090 ppt		.030 ppt		.060 ppt	
27 hdd		26 hdd		25 hdd		26 hdd		25 hdd		24 hdd		23 hdd	
0 cdd		0 cdd		0 cdd		0 cdd		0 cdd		0 cdd		0 cdd	
Highest Max 76-1990		Highest Max 82-1932		Highest Max 81-1922		Highest Max 77-1951		Highest Max 86-1962		Highest Max 84-1962		Highest Max 80-1910	
Lowest Max 16-1971		Lowest Max 23-1982		Lowest Max 23-1986		Lowest Max 21-1981		Lowest Max 28-1948		Lowest Max 31-1951		Lowest Max 23-1951	
Lowest Min 58-1966		Lowest Min 50-1957		Lowest Min 47-1976		Lowest Min 49-1984		Lowest Min 47-1952		Lowest Min 49-1976		Lowest Min 59-1954	
Highest Min -5-1933		Highest Min -3-1979		Highest Min -3-1929		Highest Min -3-1981		Highest Min 0-1905		Highest Min -15-1905		Highest Min -10-1905	
Greatest Ppt .28-1965		Greatest Ppt .78-1959		Greatest Ppt .59-1953		Greatest Ppt 1.18-1977		Greatest Ppt 1.78-1978		Greatest Ppt .52-1951		Greatest Ppt 1.01-1951	

Normal 15	Actual	Normal 16	Actual	Normal 17	Actual	Normal 18	Actual	Normal 19	Actual	Normal 20	Actual	Normal 21	Actual
51.0 max		51.0 max		54.0 max		55.0 max		55.0 max		55.0 max		52.0 max	
31.0 min		30.0 min		29.0 min		32.0 min		31.0 min		32.0 min		31.0 min	
.080 ppt		.030 ppt		.050 ppt		.060 ppt		.070 ppt		.090 ppt		.100 ppt	
24 hdd		25 hdd		23 hdd		21 hdd		21 hdd		22 hdd		23 hdd	
0 cdd		0 cdd		0 cdd		0 cdd		0 cdd		0 cdd		0 cdd	
Highest Max 80-1976		Highest Max 78-1976		Highest Max 79-1907		Highest Max 78-1930		Highest Max 77-1981		Highest Max 83-1981		Highest Max 80-1982	
Lowest Max 29-1958		Lowest Max 16-1979		Lowest Max 21-1979		Lowest Max 26-1978		Lowest Max 31-1959		Lowest Max 33-1978		Lowest Max 28-1968	
Lowest Min 60-1976		Lowest Min 50-1976		Lowest Min 47-1961		Lowest Min 60-1971		Lowest Min 48-1951		Lowest Min 50-1983		Lowest Min 58-1985	
Highest Min 3-1905		Highest Min 3-1920		Highest Min 9-1978		Highest Min 2-1936		Highest Min 9-1978		Highest Min 9-1918		Highest Min 7-1939	
Greatest Ppt .92-1974		Greatest Ppt .75-1975		Greatest Ppt 1.37-1961		Greatest Ppt 1.35-1974		Greatest Ppt 1.31-1955		Greatest Ppt 1.05-1951		Greatest Ppt 1.08-1971	

Normal 22	Actual	Normal 23	Actual	Normal 24	Actual	Normal 25	Actual	Normal 26	Actual	Normal 27	Actual	Normal 28	Actual
54.0 max		55.0 max		53.0 max		57.0 max		58.0 max		58.0 max		56.0 max	
31.0 min		33.0 min		32.0 min		33.0 min		34.0 min		35.0 min		35.0 min	
.140 ppt		.070 ppt		.070 ppt		.020 ppt		.070 ppt		.160 ppt		.080 ppt	
22 hdd		21 hdd		22 hdd		20 hdd		19 hdd		19 hdd		19 hdd	
0 cdd		0 cdd		0 cdd		0 cdd		0 cdd		0 cdd		0 cdd	
Highest Max 80-1982		Highest Max 81-1982		Highest Max 85-1918		Highest Max 82-1917		Highest Max 79-1986		Highest Max 81-1976		Highest Max 82-1972	
Lowest Max 28-1968		Lowest Max 32-1975		Lowest Max 24-1965		Lowest Max 31-1960		Lowest Max 30-1960		Lowest Max 28-1962		Lowest Max 22-1962	
Lowest Min 57-1985		Lowest Min 48-1977		Lowest Min 45-1977		Lowest Min 52-1951		Lowest Min 58-1981		Lowest Min 59-1981		Lowest Min 53-1976	
Highest Min 11-1963		Highest Min 10-1910		Highest Min 8-1965		Highest Min 10-1965		Highest Min 11-1960		Highest Min 13-1962		Highest Min 6-1962	
Greatest Ppt 2.99-1985		Greatest Ppt 1.40-1985		Greatest Ppt .86-1952		Greatest Ppt .20-1971		Greatest Ppt 1.25-1984		Greatest Ppt 1.12-1950		Greatest Ppt 2.00-1987	

Normal 29	Actual
.0 max	
.0 min	
.000 ppt	
0 hdd	
0 cdd	
Highest Max	
Lowest Max	
Lowest Min	
Highest Min	
Greatest Ppt	

FEBRUARY AVERAGES

Temperature	:	**39.5°F**
Precipitation	:	**1.93"**
Heating Degree Days	:	**667**
Cooling Degree Days	:	**0**