

# OKLAHOMA MONTHLY SUMMARY DECEMBER 1991

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## 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.

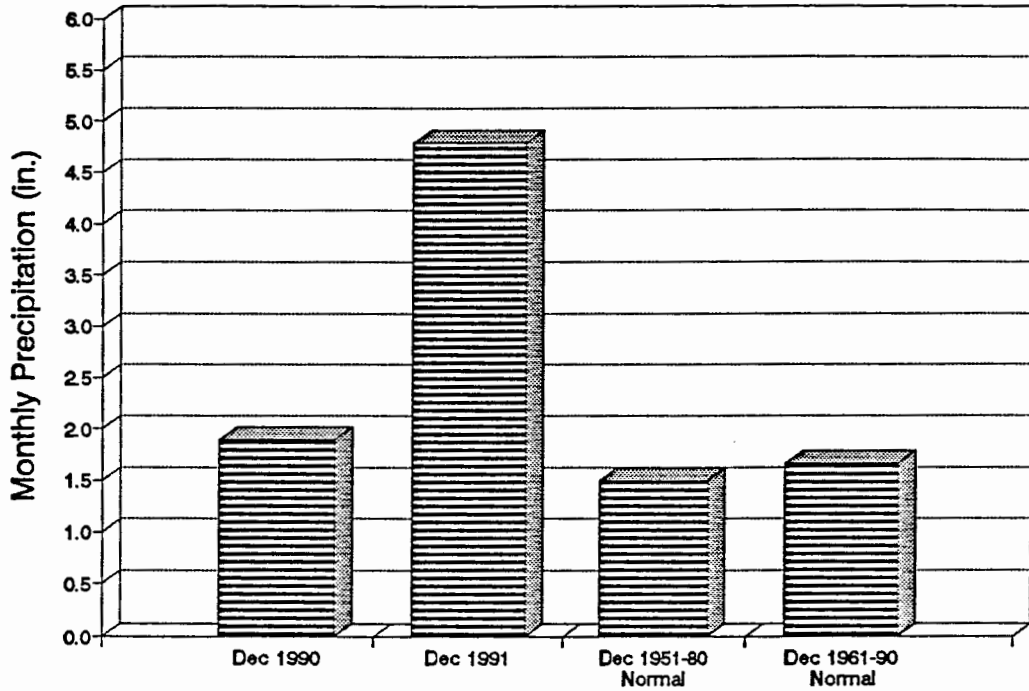
As the storm system moved eastward, skies cleared across the state. Several days of dry, sunny weather pushed temperatures steadily upward, eventually reaching as high as 80 degrees at Tahlequah and Wilburton on the 8th. Every reporting station indicated maximum temperatures of 60 degrees or greater 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.

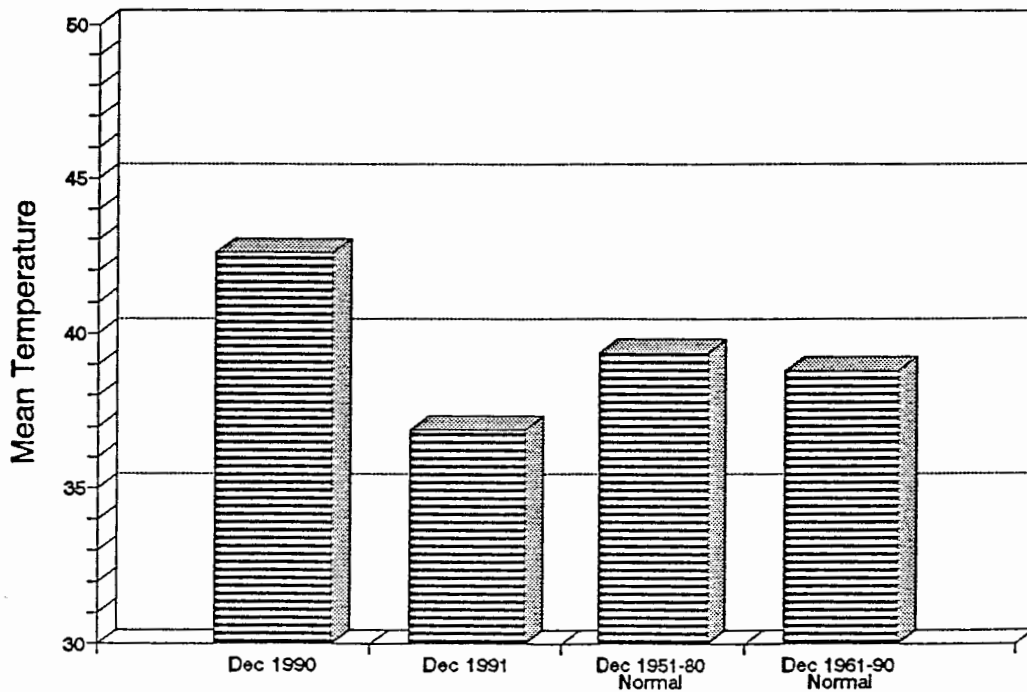
Clouds and fog prevailed for much of the remainder of the month, with a brief return of sunshine on Christmas Eve and again on New Years Eve. Although the clouds remained, rainfall totals were much lower than they had been just a few days earlier. Only a few stations reported more than an inch of precipitation 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

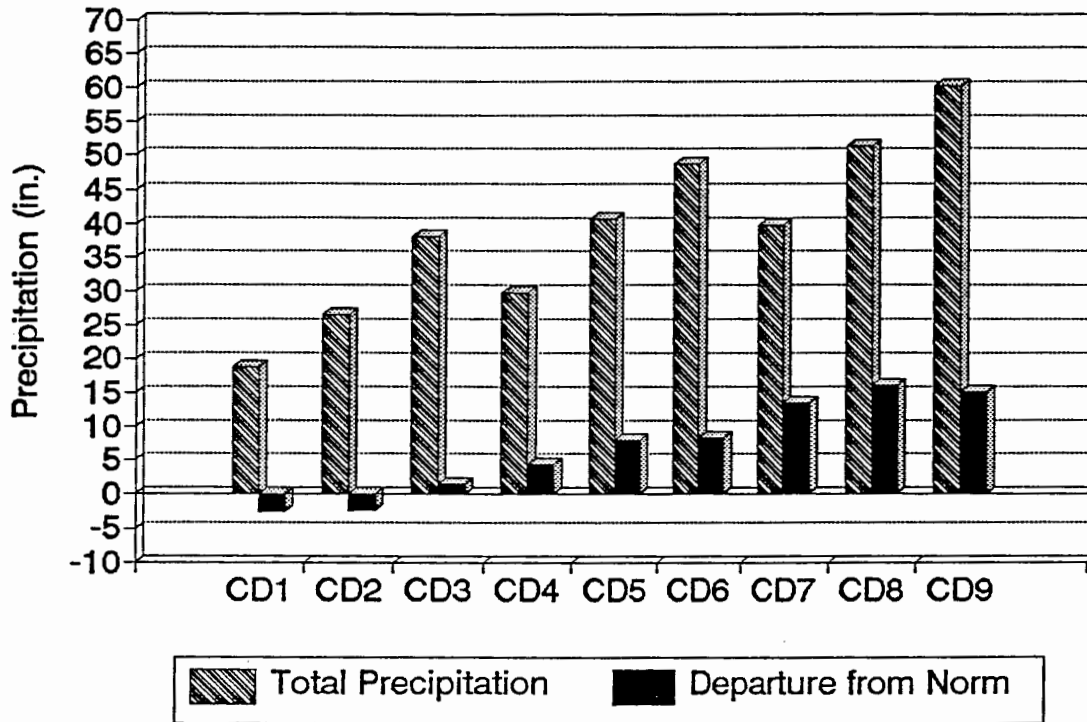


### Comparison of Monthly Temperature Statewide Average for Oklahoma



# CD Averaged Precipitation

Jan-Dec 1991



DECEMBER 1991 PERCENT OF NORMAL PRECIPITATION.

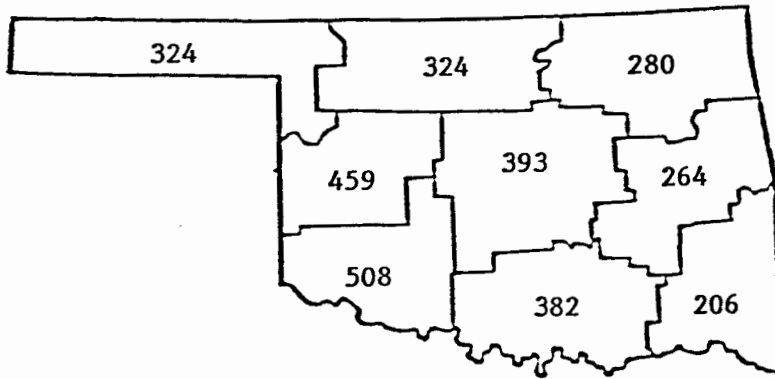


TABLE OF 1990/1991 COMPARISONS

Station	December Temperature (F)		December Precipitation (in.)	
	1990	1991	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
Atlas 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	DEV				HEAT			DEV		COOL		DEV		TOT	NUM	FROM	MAX
			MEAN	NUM	FROM	MAX	MIN	DEG	FROM	DEG	FROM	DEG	FROM	PPT	OBS				
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	ST3628	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	DEV				HEAT			DEV		COOL		DEV		TOT	NUM	FROM	MAX
			MEAN	NUM	FROM	MAX	MIN	DEG	FROM	DEG	FROM	DEG	FROM	PPT	OBS				
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	DEV					HEAT		DEV		COOL		DEV		TOT	NUM	FROM	MAX	24-HR	DAY
			MEAN	NUM	FROM	MAX	MIN	DEG	FROM	DEG	FROM	DEG	FROM	DEG	FROM						
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	DEV					HEAT		DEV		COOL		DEV		TOT	NUM	FROM	MAX	24-HR	DAY
			MEAN	NUM	FROM	MAX	MIN	DEG	FROM	DEG	FROM	DEG	FROM	DEG	FROM						
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	DEV				HEAT		DEV		COOL		DEV		TOT	NUM	OBS	NORM	24-HR	DAY
			MEAN	NUM	FROM	MAX	MIN	DEG	FROM	DEG	FROM	DEG	FROM	MAX						
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 ST1	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 SE4	861	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 WS6	661	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 AB8	450	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 SE9	086	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	DEV					HEAT		DEV		COOL		DEV		TOT	NUM	FROM	MAX	24-HR	DAY
			MEAN	NUM	FROM	MAX	MIN	DEG	DAY	FROM	DEG	DAY	FROM	NORM							
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	DEV					HEAT		DEV		COOL		DEV		TOT	NUM	FROM	MAX	24-HR	DAY
			MEAN	NUM	FROM	MAX	MIN	DEG	DAY	FROM	DEG	DAY	FROM	NORM							
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)

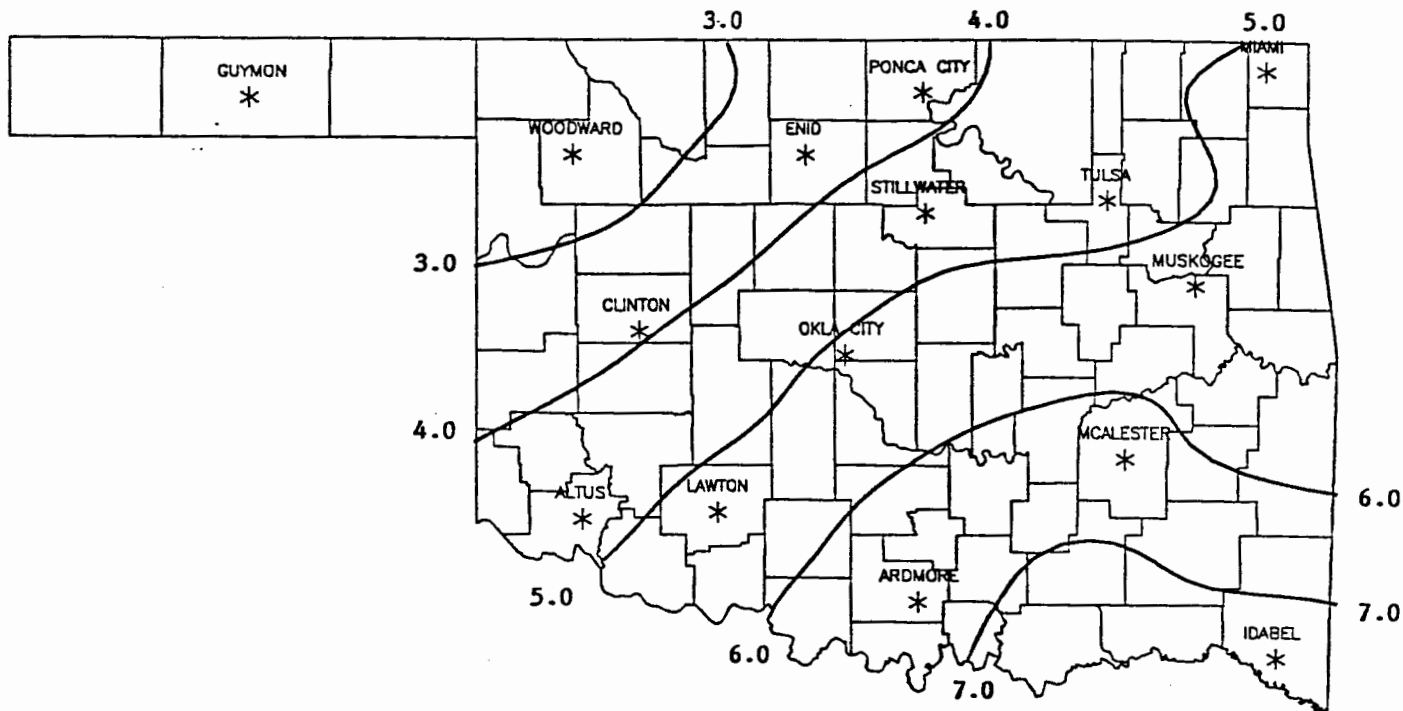
NAME	ID	CD	DEV				MIN	DAY	HEAT DEG	DEV FROM	COOL DEG	DEV FROM	TOT PPT	NUM OBS	DEV FROM	MAX	24-HR DAY	
			MEAN TEMP	NUM OBS	FROM NORM	MAX TEMP												
ADA	17	8	45.0	31	1.5	75.	8	25.	3	620.0	-47.0	.5	.5	6.600	31	4.66	1.92	20
ALLEN	147	8	****	0	****	****	0	****	0	*****	*****	*****	*****	8.750	31	*****	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
MC GEE 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)

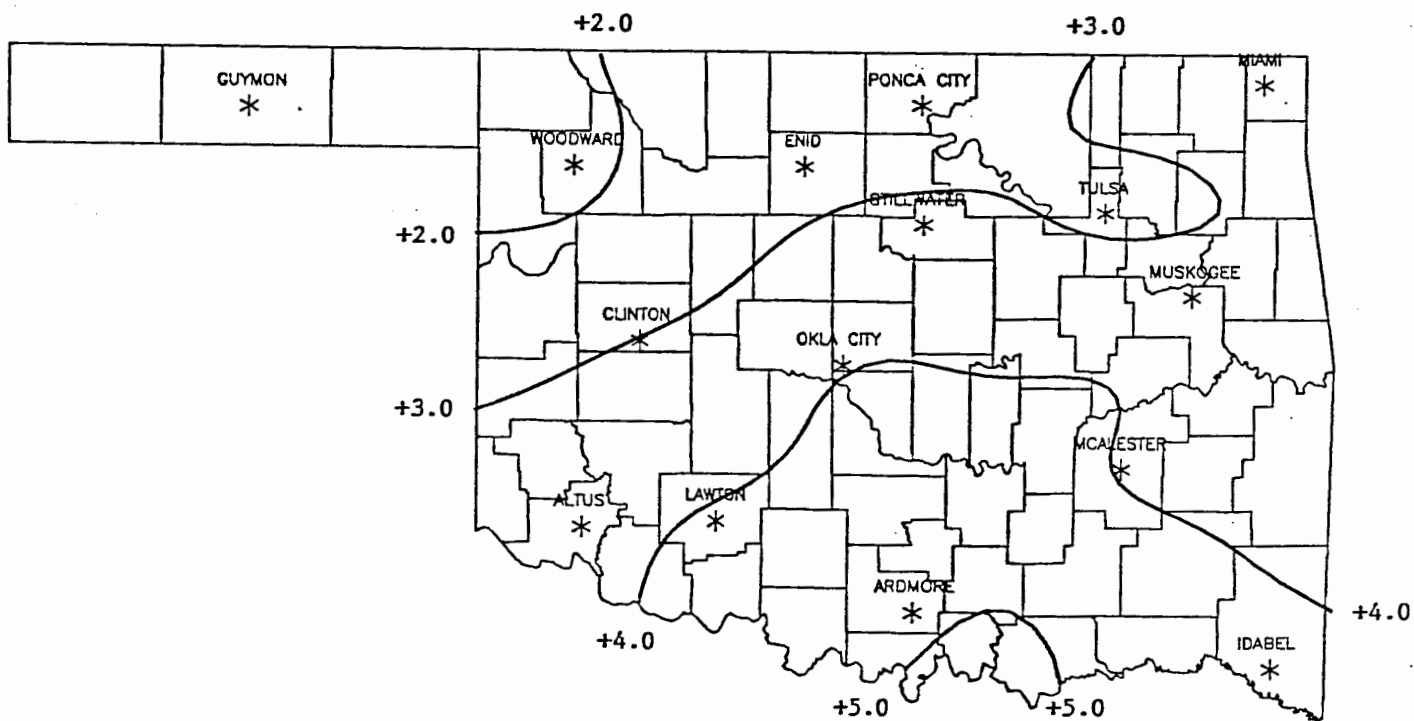
NAME	ID	CD	DEV				MIN	DAY	HEAT DEG	DEV FROM	COOL DEG	DEV FROM	TOT PPT	NUM OBS	DEV FROM	MAX	24-HR DAY	
			MEAN TEMP	NUM OBS	FROM NORM	MAX TEMP												
ANTLERS	256	9	47.2	31	3.5	77.	8	24.	15	555.5	-104.5	5.0	5.0	6.290	31	3.27	2.18	20
BATTIEST 1 SSW	567	9	44.9	31	****	72.	8	21.	15	623.0	*****	1.0	*****	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
FANSHAW	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

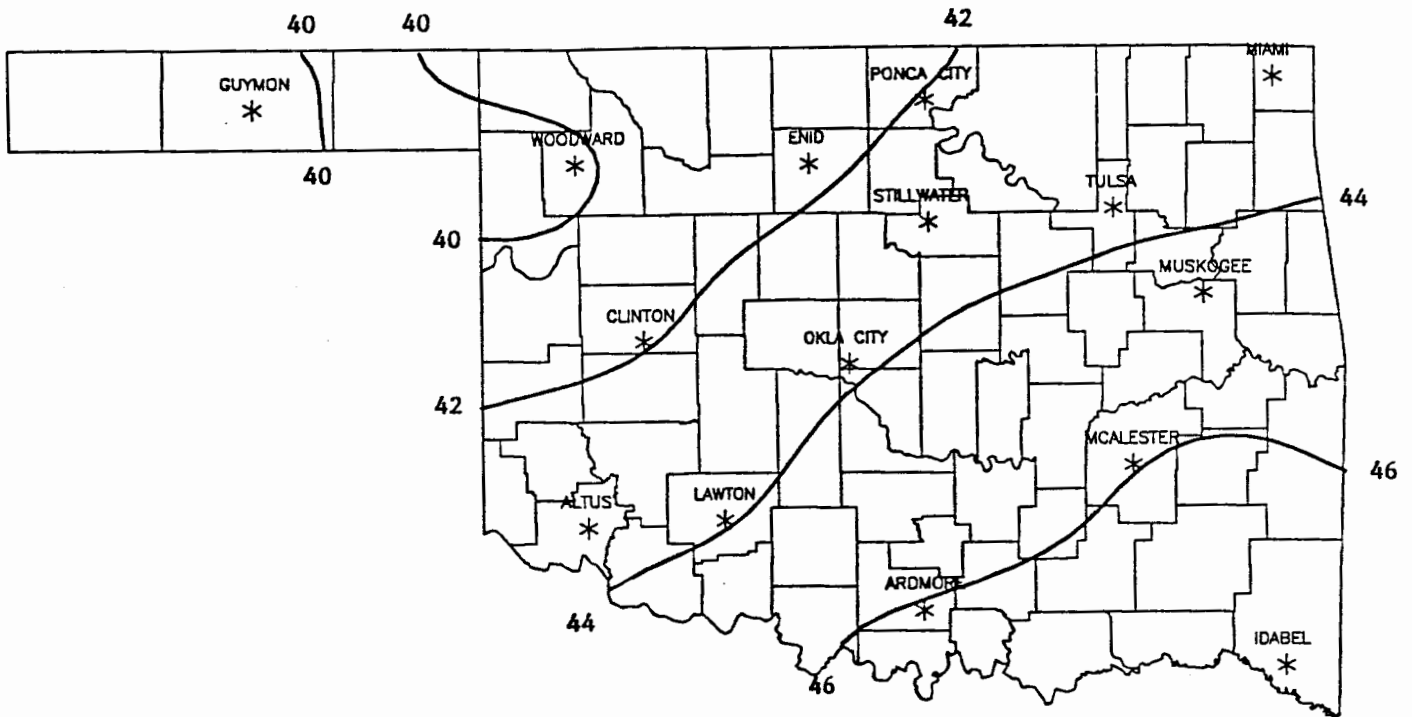
CLIMATE DIV	MEAN TEMP	NUM STA	DEV			HEAT			DEV	COOL		DEV	DEV			
			FROM NORM	MAX TEMP	MIN DAY	DEGREE DAY	FROM NORM	DEGREE DAYS	FROM NORM	TOT PPT	NUM STA	FROM NORM	MAX 24-HR	DAY		
1	37.8	10	.8	77.0	7	13.0	2	843.6	-26.3	.0	.0	1.92	12	1.42	1.00	31
2	41.0	15	2.7	81.0	1	14.0	3	744.1	-82.2	.0	.0	3.18	23	2.18	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



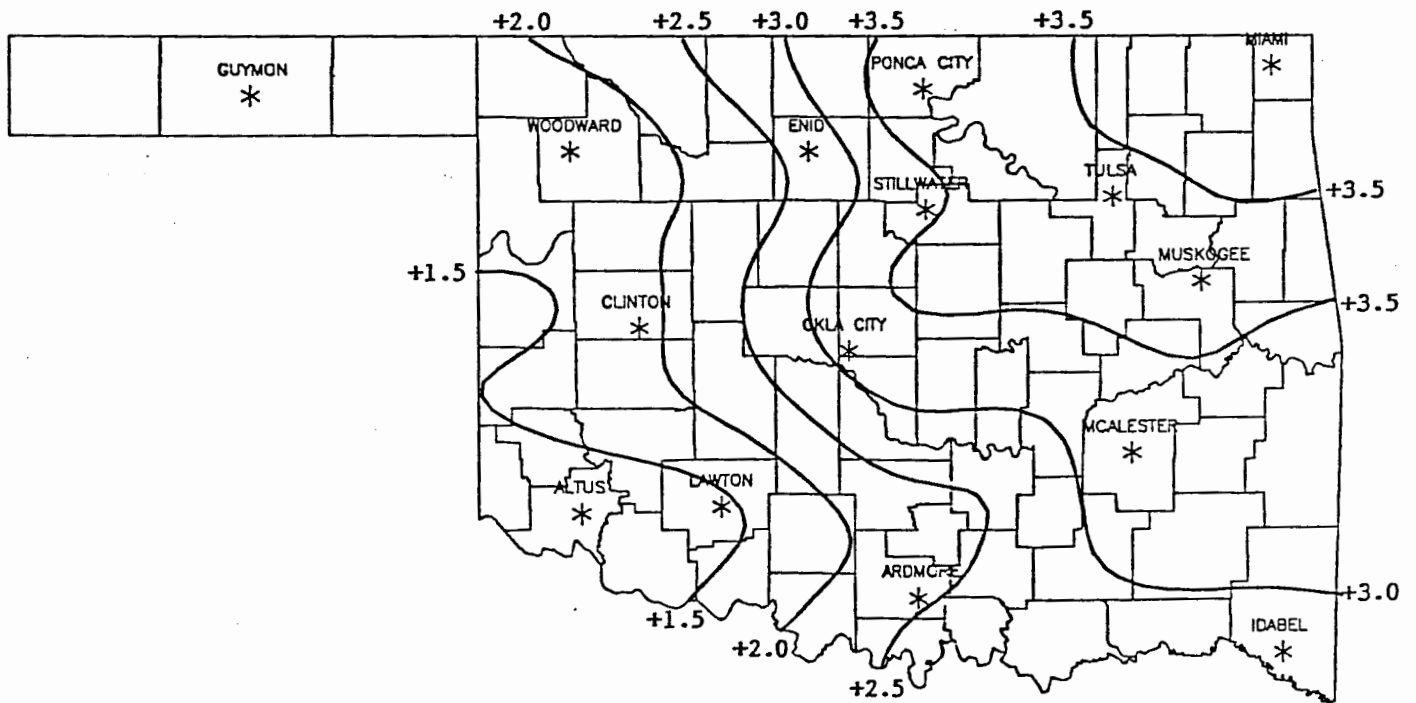
DECEMBER 1991 TOTAL PRECIPITATION  
(Inches)



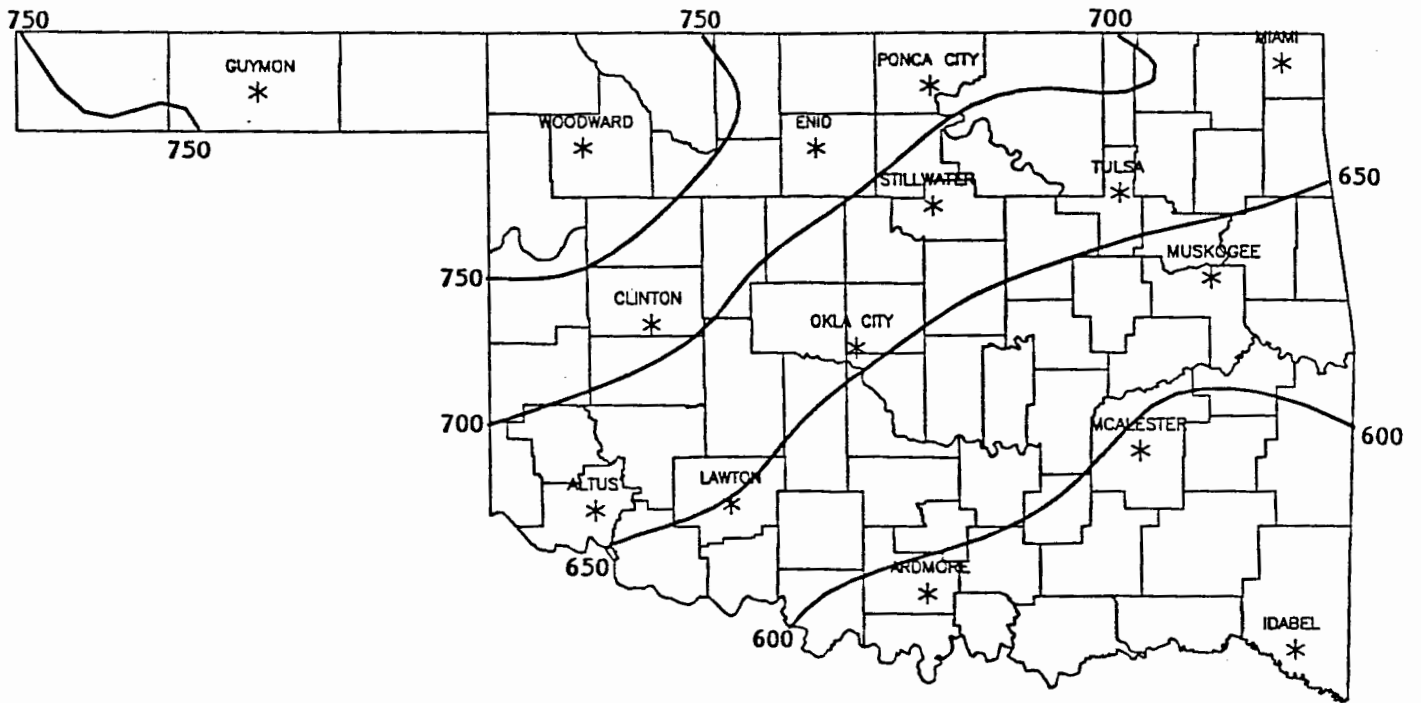
DECEMBER 1991 DEVIATION FROM NORMAL PRECIPITATION  
(Inches)



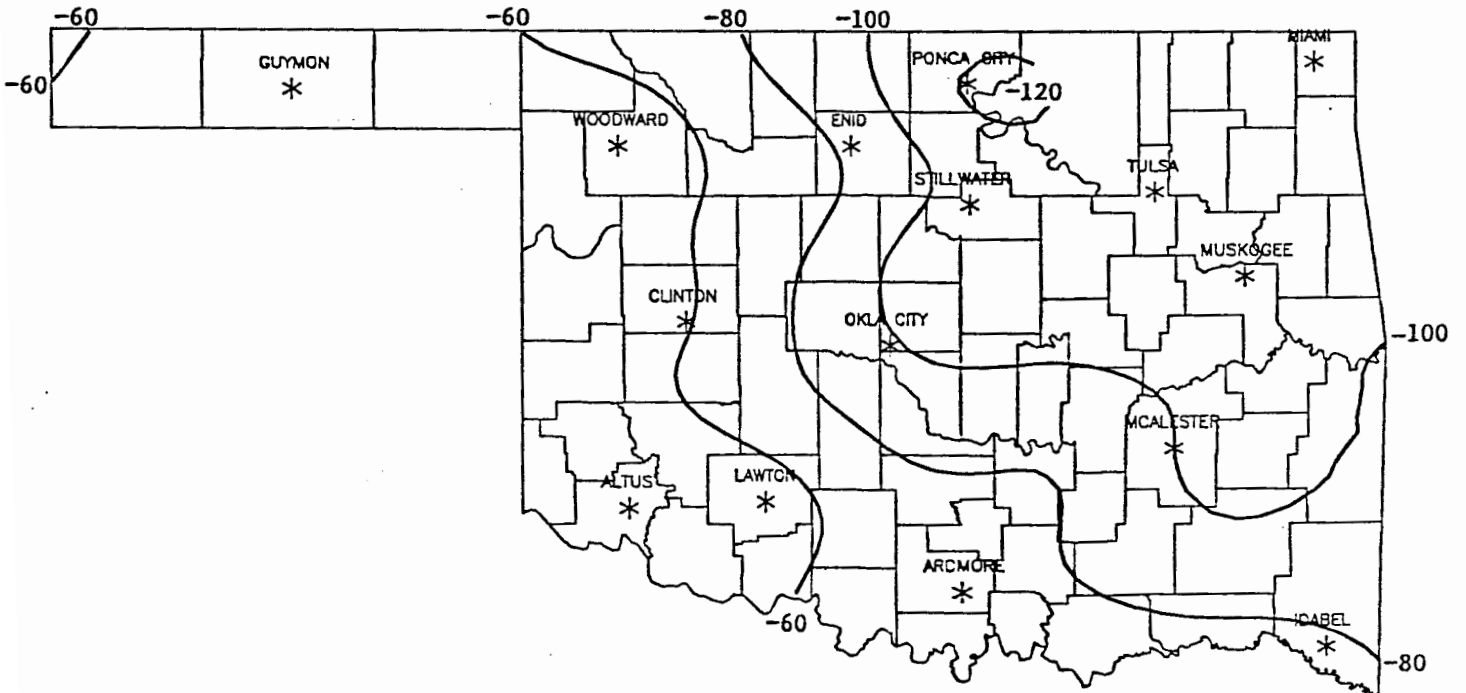
DECEMBER 1991 AVERAGE MONTHLY TEMPERATURES  
(Degrees F)



DECEMBER 1991 DEVIATION FROM NORMAL TEMPERATURES  
(Degrees F)



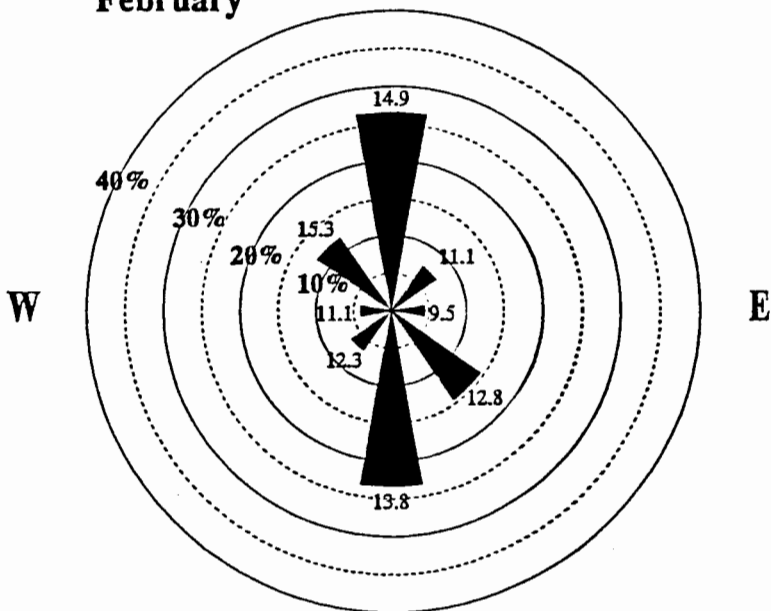
DECEMBER 1991 HEATING DEGREE DAYS



DECEMBER 1991 DEVIATION FROM NORMAL HEATING DEGREE DAYS

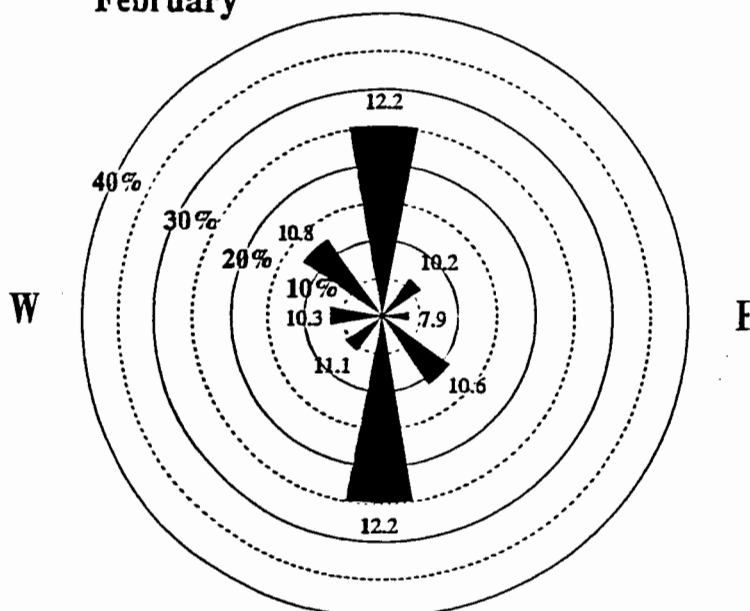
February wind roses for Oklahoma City and Tulsa. Percents represent the percentage of winds coming from a direction. The numbers at the end of the bars indicate the average speed (miles per hour) of winds from that direction.

Oklahoma City N  
February



Calm=1.6%  
Mean Speed= 13.3 mph S

Tulsa N  
February



Calm=4.8%  
Mean Speed= 10.8 mph S

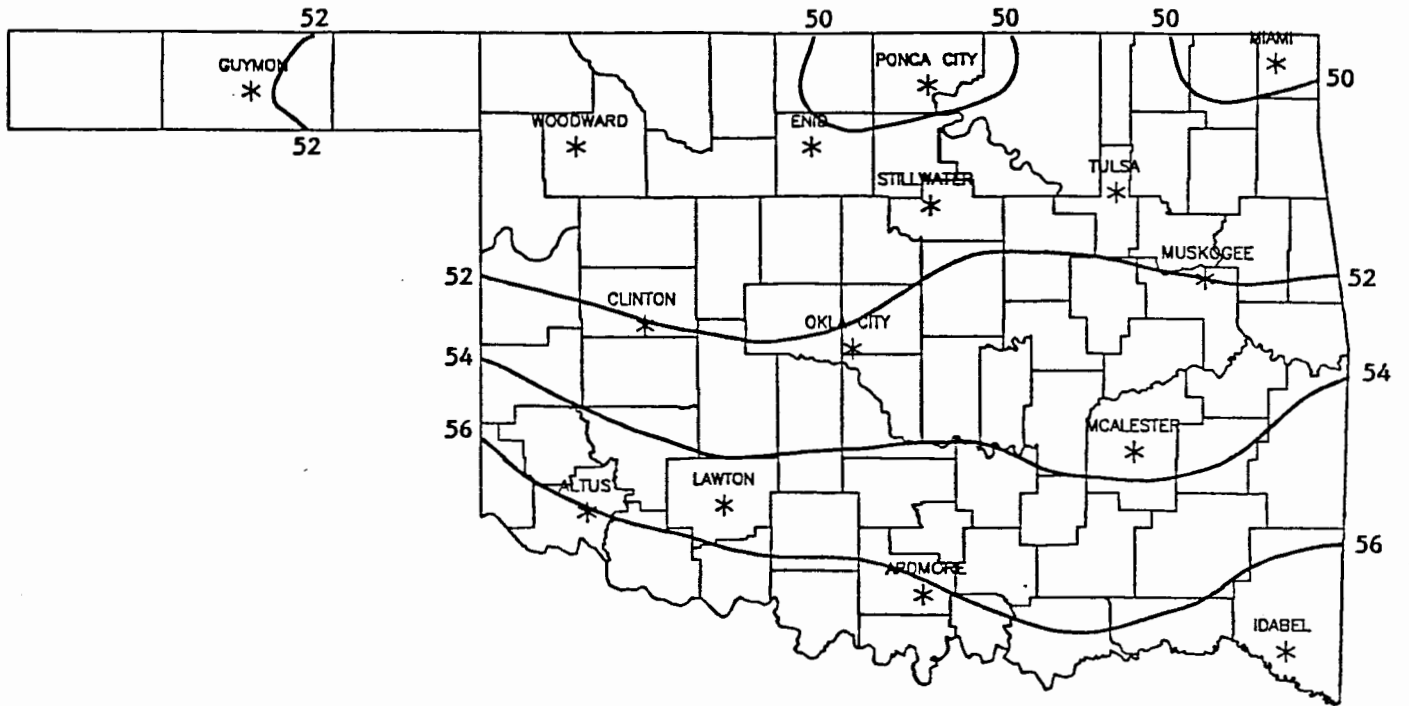
FEBRUARY 1992 SUNRISE AND SUNSET

Oklahoma City

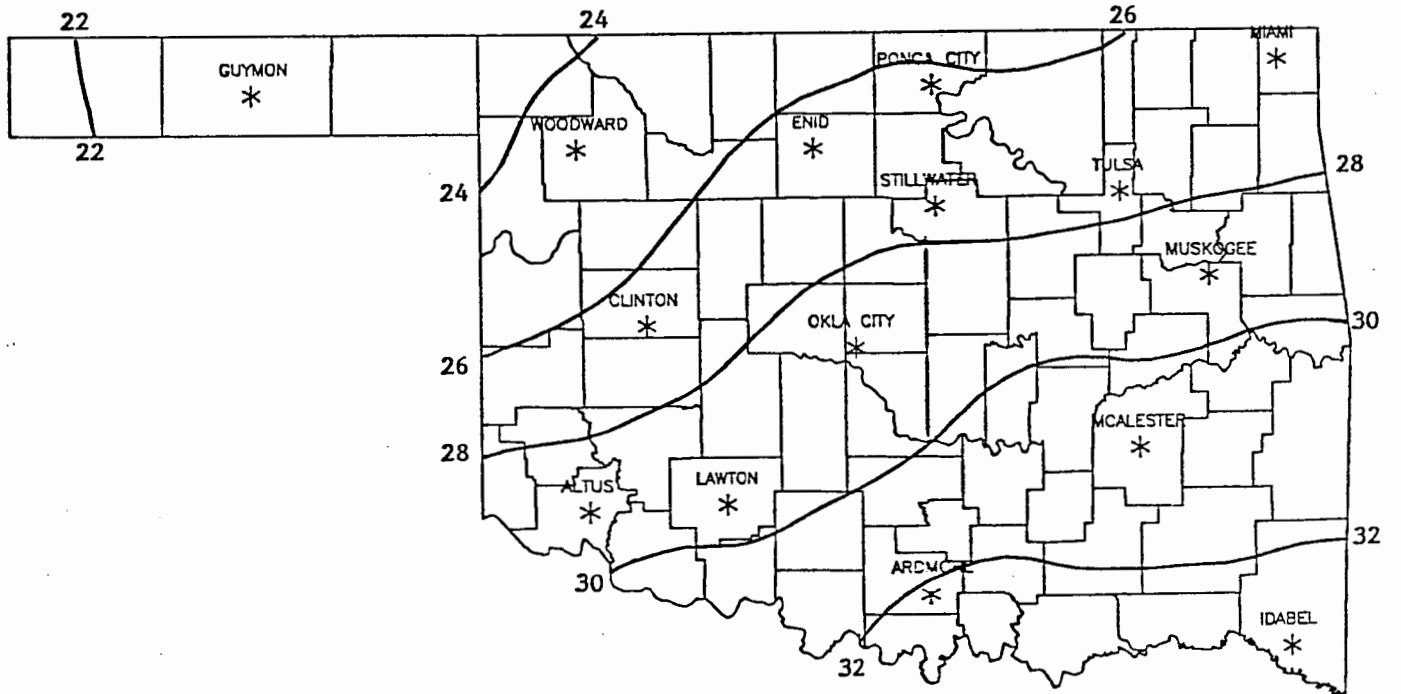
DATE	SUNRISE	SUNSET	DAYLIGHT
92 2 1	7:30AM	5:58PM CST	10 hrs 28 mins
92 2 2	7:29AM	5:59PM CST	10 hrs 29 mins
92 2 3	7:28AM	6: 0PM CST	10 hrs 31 mins
92 2 4	7:28AM	6: 1PM CST	10 hrs 33 mins
92 2 5	7:27AM	6: 2PM CST	10 hrs 35 mins
92 2 6	7:26AM	6: 3PM CST	10 hrs 36 mins
92 2 7	7:25AM	6: 4PM CST	10 hrs 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 2 10	7:23AM	6: 7PM CST	10 hrs 44 mins
92 2 11	7:22AM	6: 8PM CST	10 hrs 46 mins
92 2 12	7:21AM	6: 9PM CST	10 hrs 48 mins
92 2 13	7:20AM	6:10PM CST	10 hrs 50 mins
92 2 14	7:19AM	6:11PM CST	10 hrs 52 mins
92 2 15	7:18AM	6:12PM CST	10 hrs 54 mins
92 2 16	7:17AM	6:13PM CST	10 hrs 56 mins
92 2 17	7:16AM	6:13PM CST	10 hrs 58 mins
92 2 18	7:15AM	6:14PM CST	11 hrs 0 mins
92 2 19	7:14AM	6:15PM CST	11 hrs 2 mins
92 2 20	7:13AM	6:16PM CST	11 hrs 4 mins
92 2 21	7:11AM	6:17PM CST	11 hrs 6 mins
92 2 22	7:10AM	6:18PM CST	11 hrs 8 mins
92 2 23	7: 9AM	6:19PM CST	11 hrs 10 mins
92 2 24	7: 8AM	6:20PM CST	11 hrs 12 mins
92 2 25	7: 7AM	6:21PM CST	11 hrs 14 mins
92 2 26	7: 5AM	6:22PM CST	11 hrs 16 mins
92 2 27	7: 4AM	6:23PM CST	11 hrs 19 mins
92 2 28	7: 3AM	6:24PM CST	11 hrs 21 mins
92 2 29	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 2 10	7:17AM	5:59PM CST	10 hrs 42 mins
92 2 11	7:16AM	6: 0PM CST	10 hrs 43 mins
92 2 12	7:15AM	6: 1PM CST	10 hrs 45 mins
92 2 13	7:14AM	6: 2PM CST	10 hrs 47 mins
92 2 14	7:13AM	6: 3PM CST	10 hrs 50 mins
92 2 15	7:12AM	6: 4PM CST	10 hrs 52 mins
92 2 16	7:11AM	6: 5PM CST	10 hrs 54 mins
92 2 17	7:10AM	6: 6PM CST	10 hrs 56 mins
92 2 18	7: 9AM	6: 7PM CST	10 hrs 58 mins
92 2 19	7: 8AM	6: 8PM CST	11 hrs 0 mins
92 2 20	7: 7AM	6: 9PM CST	11 hrs 2 mins
92 2 21	7: 5AM	6:10PM CST	11 hrs 4 mins
92 2 22	7: 4AM	6:11PM CST	11 hrs 6 mins
92 2 23	7: 3AM	6:12PM CST	11 hrs 8 mins
92 2 24	7: 2AM	6:13PM CST	11 hrs 11 mins
92 2 25	7: 1AM	6:13PM CST	11 hrs 13 mins
92 2 26	6:59AM	6:14PM CST	11 hrs 15 mins
92 2 27	6:58AM	6:15PM CST	11 hrs 17 mins
92 2 28	6:57AM	6:16PM CST	11 hrs 19 mins
92 2 29	6:56AM	6:17PM CST	11 hrs 22 mins

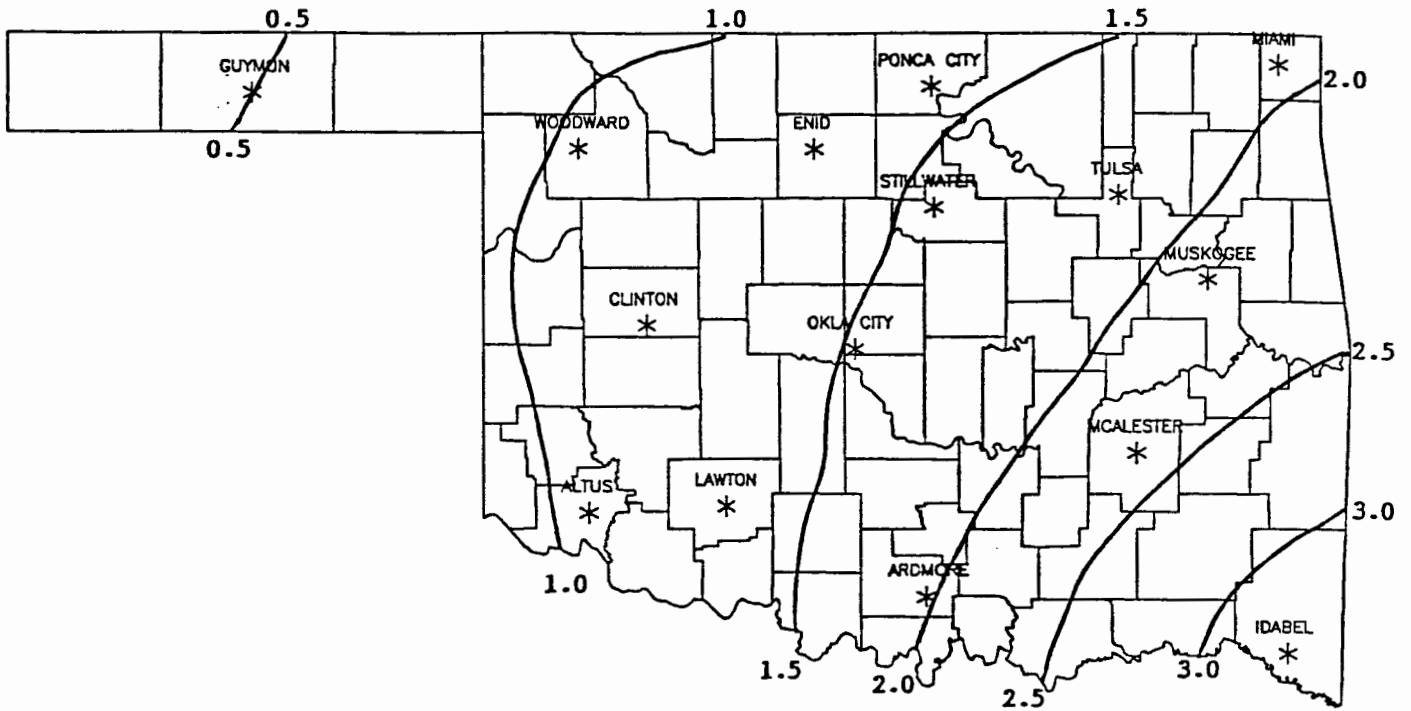


30-YEAR MEAN FEBRUARY DAILY MAXIMUM TEMPERATURE



30-YEAR MEAN FEBRUARY DAILY MINIMUM TEMPERATURE



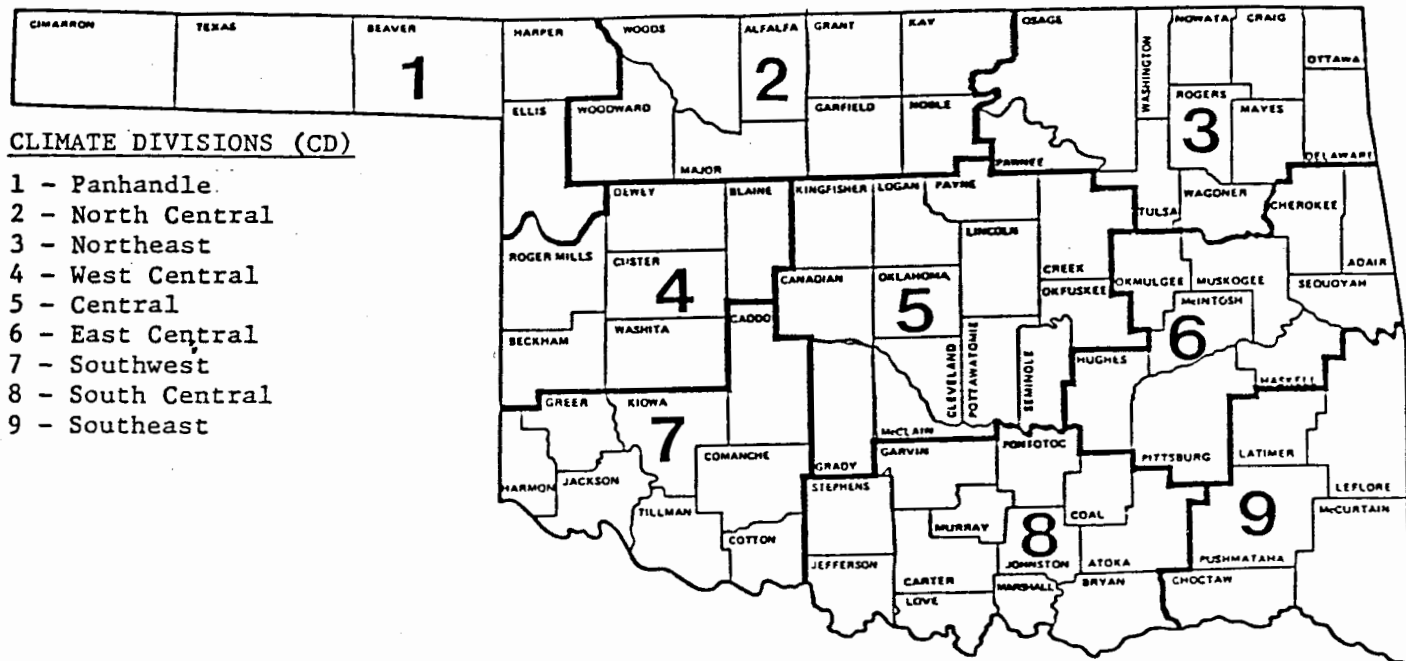


**30-YEAR MEAN FEBRUARY MONTHLY PRECIPITATION**

**90-DAY NATIONAL WEATHER SERVICE OUTLOOK**  
**(January - March 1992)**

**Precipitation - Near Normal Statewide**

**Temperature - Near Normal Statewide**



**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:

$$29 \sum_{i=1} 65 - ((TMAX_i + TMIN_i) / 2)$$

**Deviation from Normal Heating Degree Days:** A positive value indicates higher than normal heating requirements for the month as a whole. A negative value indicates lower than normal heating requirements for the month as a whole. Normal HDD may be calculated by subtracting the deviation from observed HDD.

Cooling Degree Days: CDD are calculated each day of the month for which there is a temperature report and summed. They are a proxy measure of how much cooling was required to maintain 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 28.0 .040 27 0	max min ppt hdd cdd	45.0 26.0 .030 29 0	max min ppt hdd cdd	47.0 27.0 .060 28 0	max min ppt hdd cdd	50.0 29.0 .070 26 0	max min ppt hdd cdd	48.0 28.0 .090 27 0	max min ppt hdd cdd	45.0 26.0 .020 29 0	max min ppt hdd cdd	47.0 25.0 .050 29 0	max min ppt hdd cdd	
Highest Max Lowest Max Lowest Min Highest Min Greatest Ppt	90-1911 14-1918 -2-1951 59-1986 .71-1990	76-1924 10-1905 -4-1895 58-1986 .88-1943	78-1962 7-1905 0-1989 56-1985 1.13-1960	77-1942 16-1982 3-1989 57-1938 1.06-1987	77-1962 15-1989 -1-1895 58-1927 1.32-1954	77-1942 16-1982 3-1989 57-1938 1.06-1987	73-1904 16-1905 3-1895 54-1931 1.38-1892	76-1937 6-1933 -8-1895 60-1894 84-1880						
Normal 8	Actual	Normal 9	Actual	Normal 10	Actual	Normal 11	Actual	Normal 12	Actual	Normal 13	Actual	Normal 14	Actual	
49.0 31.0 .060 27 0	max min ppt hdd cdd	51.0 28.0 .040 26 0	max min ppt hdd cdd	53.0 27.0 .030 25 0	max min ppt hdd cdd	49.0 28.0 .050 26 0	max min ppt hdd cdd	52.0 29.0 .080 25 0	max min ppt hdd cdd	54.0 30.0 .040 23 0	max min ppt hdd cdd	52.0 32.0 .100 23 0	max min ppt hdd cdd	
Highest Max Lowest Max Lowest Min Highest Min Greatest Ppt	73-1943 12-1929 -5-1933 53-1966 .62-1966	84-1932 16-1899 -3-1979 51-1932 2.10-1898	79-1922 16-1933 4-1929 52-1952 .50-1953	82-1962 2-1905 -17-1899 57-1938 2.21-1978	82-1962 2-1905 -17-1899 57-1938 2.21-1978	84-1962 2-1905 -17-1899 57-1938 2.21-1978	82-1962 2-1905 -11-1905 64-1978 .78-1908	81-1954 18-1951 1-1936 55-1954 .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 31.0 .060 25 0	max min ppt hdd cdd	51.0 30.0 .020 24 0	max min ppt hdd cdd	54.0 32.0 .040 22 0	max min ppt hdd cdd	55.0 32.0 .050 22 0	max min ppt hdd cdd	54.0 32.0 .050 22 0	max min ppt hdd cdd	55.0 32.0 .080 22 0	max min ppt hdd cdd	51.0 31.0 .100 24 0	max min ppt hdd cdd	
Highest Max Lowest Max Lowest Min Highest Min Greatest Ppt	91-1954 17-1909 7-1909 53-1976 .93-1938	81-1927 15-1903 4-1903 63-1911 2.15-1940	79-1991 17-1936 5-1900 50-1926 .88-1951	83-1986 21-1929 7-1903 49-1906 .68-1964	83-1986 21-1929 7-1903 49-1906 .68-1964	83-1986 21-1929 7-1903 49-1906 .68-1964	84-1981 25-1918 9-1918 55-1894 1.31-1985	79-1935 25-1911 9-1939 58-1922 1.53-1971						
Normal 22	Actual	Normal 23	Actual	Normal 24	Actual	Normal 25	Actual	Normal 26	Actual	Normal 27	Actual	Normal 28	Actual	
54.0 32.0 .070 22 0	max min ppt hdd cdd	54.0 33.0 .030 22 0	max min ppt hdd cdd	54.0 32.0 .050 22 0	max min ppt hdd cdd	58.0 34.0 .020 19 0	max min ppt hdd cdd	59.0 34.0 .030 19 0	max min ppt hdd cdd	58.0 34.0 .080 19 0	max min ppt hdd cdd	57.0 34.0 .070 19 0	max min ppt hdd cdd	
Highest Max Lowest Max Lowest Min Highest Min Greatest Ppt	83-1982 24-1968 11-1963 55-1985 1.15-1985	88-1918 21-1914 7-1910 52-1956 .81-1985	87-1918 19-1950 7-1985 58-1930 .94-1952	84-1917 27-1980 10-1980 56-1944 .74-1936	78-1986 21-1934 10-1891 59-1981 1.34-1903	83-1918 25-1962 12-1962 56-1981 1.32-1966	83-1918 25-1962 12-1962 56-1981 1.32-1966	90-1904 19-1922 7-1962 62-1904 .98-1990						
Normal 29	Actual	<b>FEBRUARY AVERAGES</b>												
56.0 31.0 .040 22 0	max min ppt hdd cdd	Temperature : 41.1°F												
Highest Max Lowest Max Lowest Min Highest Min Greatest Ppt	81-1972 22-1960 13-1960 58-1932 .42-1948	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.

<p><b>Normal 1</b> Actual</p> <p>48.0 max 27.0 min .090 ppt 27 hdd 0 cdd</p> <p>Highest Max 90-1911 Lowest Max 15-1951 Lowest Min -7-1979 Highest Min 53-1986 Greatest Ppt .63-1968</p>	<p><b>Normal 2</b> Actual</p> <p>46.0 max 26.0 min .020 ppt 29 hdd 0 cdd</p> <p>Highest Max 76-1924 Lowest Max 25-1985 Lowest Min 0-1917 Highest Min 56-1986 Greatest Ppt .16-1975</p>	<p><b>Normal 3</b> Actual</p> <p>48.0 max 27.0 min .030 ppt 27 hdd 0 cdd</p> <p>Highest Max 79-1934 Lowest Max 13-1989 Lowest Min 59-1986 Highest Min 1-1989 Greatest Ppt .53-1960</p>	<p><b>Normal 4</b> Actual</p> <p>50.0 max 29.0 min .120 ppt 25 hdd 0 cdd</p> <p>Highest Max 77-1982 Lowest Max 16-1989 Lowest Min 51-1991 Highest Min 2-1989 Greatest Ppt 2.27-1971</p>	<p><b>Normal 5</b> Actual</p> <p>48.0 max 29.0 min .090 ppt 26 hdd 0 cdd</p> <p>Highest Max 75-1942 Lowest Max 19-1982 Lowest Min 47-1974 Highest Min 4-1979 Greatest Ppt 1.36-1964</p>	<p><b>Normal 6</b> Actual</p> <p>46.0 max 27.0 min .040 ppt 28 hdd 0 cdd</p> <p>Highest Max 73-1925 Lowest Max 21-1989 Lowest Min 48-1965 Highest Min 4-1985 Greatest Ppt .96-1979</p>	<p><b>Normal 7</b> Actual</p> <p>47.0 max 26.0 min .070 ppt 28 hdd 0 cdd</p> <p>Highest Max 78-1909 Lowest Max 27-1985 Lowest Min 49-1970 Highest Min 0-1933 Greatest Ppt .76-1980</p>	<p><b>Normal 8</b> Actual</p> <p>49.0 max 27.0 min .030 ppt 27 hdd 0 cdd</p> <p>Highest Max 76-1990 Lowest Max 16-1971 Lowest Min 58-1966 Highest Min -5-1993 Greatest Ppt .28-1965</p>	<p><b>Normal 9</b> Actual</p> <p>49.0 max 28.0 min .060 ppt 26 hdd 0 cdd</p> <p>Highest Max 82-1932 Lowest Max 23-1982 Lowest Min 50-1957 Highest Min -3-1979 Greatest Ppt .78-1959</p>	<p><b>Normal 10</b> Actual</p> <p>53.0 max 27.0 min .030 ppt 25 hdd 0 cdd</p> <p>Highest Max 81-1922 Lowest Max 23-1986 Lowest Min 47-1976 Highest Min -3-1929 Greatest Ppt .59-1953</p>	<p><b>Normal 11</b> Actual</p> <p>50.0 max 28.0 min .090 ppt 26 hdd 0 cdd</p> <p>Highest Max 77-1951 Lowest Max 21-1981 Lowest Min 49-1984 Highest Min -3-1981 Greatest Ppt 1.18-1977</p>	<p><b>Normal 12</b> Actual</p> <p>50.0 max 29.0 min .090 ppt 25 hdd 0 cdd</p> <p>Highest Max 86-1962 Lowest Max 28-1948 Lowest Min 47-1952 Highest Min 0-1905 Greatest Ppt 1.78-1978</p>	<p><b>Normal 13</b> Actual</p> <p>53.0 max 29.0 min .030 ppt 24 hdd 0 cdd</p> <p>Highest Max 84-1962 Lowest Max 31-1951 Lowest Min 49-1976 Highest Min -15-1905 Greatest Ppt .52-1951</p>	<p><b>Normal 14</b> Actual</p> <p>52.0 max 32.0 min .060 ppt 23 hdd 0 cdd</p> <p>Highest Max 80-1910 Lowest Max 23-1951 Lowest Min 59-1954 Highest Min -10-1905 Greatest Ppt 1.01-1951</p>	<p><b>Normal 15</b> Actual</p> <p>51.0 max 31.0 min .080 ppt 24 hdd 0 cdd</p> <p>Highest Max 80-1976 Lowest Max 29-1958 Lowest Min 50-1976 Highest Min 3-1905 Greatest Ppt .92-1974</p>	<p><b>Normal 16</b> Actual</p> <p>51.0 max 30.0 min .030 ppt 26 hdd 0 cdd</p> <p>Highest Max 78-1976 Lowest Max 16-1979 Lowest Min 50-1976 Highest Min 3-1920 Greatest Ppt .76-1975</p>	<p><b>Normal 17</b> Actual</p> <p>54.0 max 29.0 min .060 ppt 23 hdd 0 cdd</p> <p>Highest Max 79-1907 Lowest Max 21-1979 Lowest Min 47-1981 Highest Min 9-1978 Greatest Ppt 1.37-1961</p>	<p><b>Normal 18</b> Actual</p> <p>55.0 max 32.0 min .060 ppt 21 hdd 0 cdd</p> <p>Highest Max 78-1930 Lowest Max 26-1978 Lowest Min 50-1971 Highest Min 2-1936 Greatest Ppt 1.35-1974</p>	<p><b>Normal 19</b> Actual</p> <p>55.0 max 31.0 min .070 ppt 21 hdd 0 cdd</p> <p>Highest Max 77-1981 Lowest Max 31-1959 Lowest Min 48-1951 Highest Min 9-1978 Greatest Ppt 1.31-1955</p>	<p><b>Normal 20</b> Actual</p> <p>55.0 max 32.0 min .090 ppt 22 hdd 0 cdd</p> <p>Highest Max 83-1991 Lowest Max 33-1978 Lowest Min 50-1983 Highest Min 9-1918 Greatest Ppt 1.05-1951</p>	<p><b>Normal 21</b> Actual</p> <p>52.0 max 31.0 min .100 ppt 23 hdd 0 cdd</p> <p>Highest Max 80-1982 Lowest Max 28-1968 Lowest Min 58-1985 Highest Min 7-1939 Greatest Ppt 1.08-1971</p>	<p><b>Normal 22</b> Actual</p> <p>54.0 max 31.0 min .140 ppt 22 hdd 0 cdd</p> <p>Highest Max 80-1982 Lowest Max 28-1988 Lowest Min 57-1985 Highest Min 11-1963 Greatest Ppt 2.99-1985</p>	<p><b>Normal 23</b> Actual</p> <p>55.0 max 33.0 min .070 ppt 21 hdd 0 cdd</p> <p>Highest Max 81-1982 Lowest Max 32-1976 Lowest Min 48-1977 Highest Min 10-1910 Greatest Ppt 1.40-1985</p>	<p><b>Normal 24</b> Actual</p> <p>53.0 max 32.0 min .070 ppt 22 hdd 0 cdd</p> <p>Highest Max 86-1918 Lowest Max 24-1965 Lowest Min 45-1977 Highest Min 8-1965 Greatest Ppt .86-1952</p>	<p><b>Normal 25</b> Actual</p> <p>57.0 max 33.0 min .020 ppt 20 hdd 0 cdd</p> <p>Highest Max 82-1917 Lowest Max 31-1980 Lowest Min 52-1951 Highest Min 10-1965 Greatest Ppt 2.20-1971</p>	<p><b>Normal 26</b> Actual</p> <p>58.0 max 34.0 min .070 ppt 19 hdd 0 cdd</p> <p>Highest Max 79-1986 Lowest Max 30-1960 Lowest Min 58-1981 Highest Min 11-1960 Greatest Ppt 1.25-1984</p>	<p><b>Normal 27</b> Actual</p> <p>58.0 max 35.0 min .160 ppt 19 hdd 0 cdd</p> <p>Highest Max 81-1976 Lowest Max 28-1962 Lowest Min 59-1981 Highest Min 13-1982 Greatest Ppt 1.12-1950</p>	<p><b>Normal 28</b> Actual</p> <p>56.0 max 35.0 min .080 ppt 19 hdd 0 cdd</p> <p>Highest Max 82-1972 Lowest Max 22-1962 Lowest Min 53-1976 Highest Min 6-1962 Greatest Ppt 2.00-1987</p>	<p><b>Normal 29</b> Actual</p> <p>.0 max .0 min .000 ppt 0 hdd 0 cdd</p> <p>Highest Max Lowest Max Lowest Min Highest Min Greatest Ppt</p>
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**FEBRUARY AVERAGES**

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