

OKLAHOMA MONTHLY SUMMARY FEBRUARY 1993

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MONTHLY SUMMARY FOR FEBRUARY 1993

A pair of major winter storms during February brought bitter cold and snow to northern sections of the state and rain elsewhere, continuing the cool, moist pattern that characterized the winter of 1992-93. The statewide average monthly precipitation of 2.96 inches (the 10th highest February total in 102 years) exceeded normal precipitation by 1.23 inches. The average temperature was 39.3 degrees, which is two degrees below normal. The combined figures for the three winter months indicate a winter slightly cooler and much wetter than normal. Total precipitation during the three winter months averaged 8.94 inches, 4.24 inches above normal for the season and second only to the winter of 1984-85. The average temperature of 38.5 degrees over the three months was one-half degree below normal.

An upper level disturbance spread cloudiness and precipitation across the state from the third through the fifth, producing up to 1.80 inches of precipitation over two days at Oilton.

A very strong winter storm developed over the Oklahoma and Texas panhandles on the 9th and 10th, producing 4 inches of snow at Boise City and 2 to 3 inches in the Guymon area. Accompanying winds in excess of 45 miles per hour caused considerable blowing snow, reducing visibilities. Freezing rain and sleet reported far south as Harmon County in the west and extending eastward into central Oklahoma made travel. An icy overpass in Oklahoma City was the scene of a 22 vehicle accident. Rain over the rest of the state produced several one-day amounts in excess of one inch, topped by the 1.87 inches reported at Hugo on the morning of the 11th.

The weekend of Valentine's Day was notable for another major storm which developed over southeastern New Mexico and moved rapidly to the northeast, pulling frigid Arctic air from the High Plains in behind it. Snowfall reports on the morning of the 15th included 10 inches at Miami, 9 inches at Muskogee, 8.5 inches at Hooker (nearly 13 inches over two days) and 7.5 inches at Nowata. Laverne received slightly more than 8 inches spread over two reporting days, bringing its accumulated reported snowfall to just over 50 inches since November 22. The snow extended into central Oklahoma and a trace of snow were was reported as far southeast as Tuskahoma.

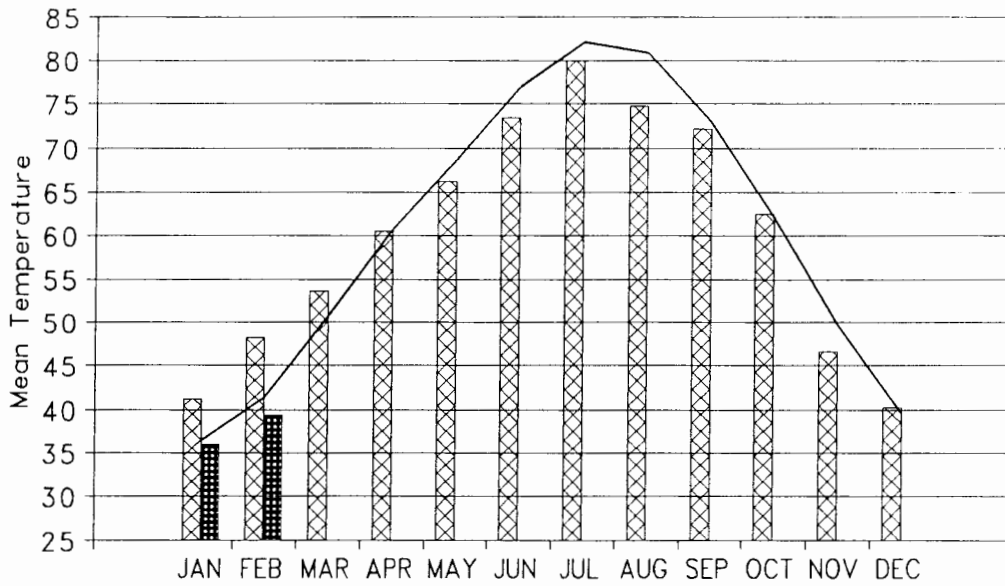
Precipitation reports associated with the rain that fell on most of southern and central Oklahoma included a number of two inch or greater daily totals, led by 2.90 inches at Walters and Duncan and 2.85 inches at Wewoka, all reported on the morning of the 15th. Cold air spread over the entire state, lowering temperatures to below freezing even in the southeast and to below zero (-4 at Taloga on the 18th) in the north where the snow cover intensified the cold.

Slowly moderating temperatures followed the mid-month snowstorm, interrupted by an episode of freezing rain across northern Oklahoma on the 24th and reports of sleet as far south as Rush Springs and Bengal on the 24th, along with 2 inches of precipitation at Wetumka (24th) and Bixby (25th).

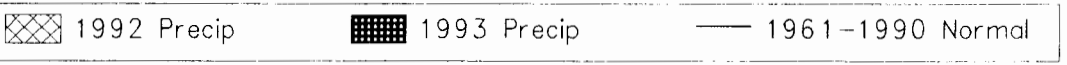
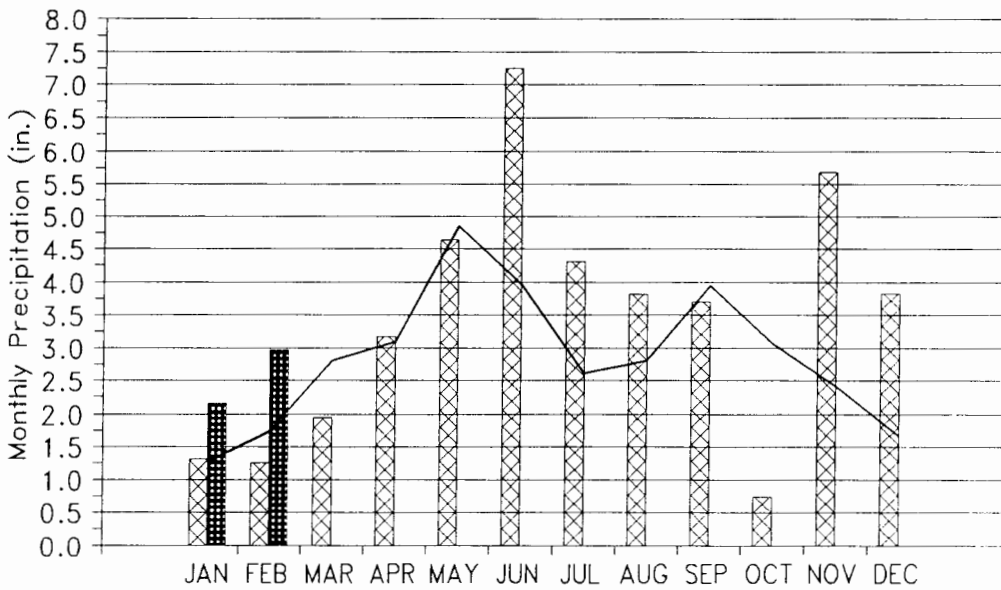
Another, though weaker, system moved through the state on the 26th and 27th, returning overnight low temperatures in the northwest to the lower teens by the morning of the 26th. Southern Oklahoma, though warmer, remained wet as Bokchito reported 1.44 inches of precipitation on the 26th and Madill noted 1.12 inches and Boynton one inch on the 28th.

Howard L. Johnson

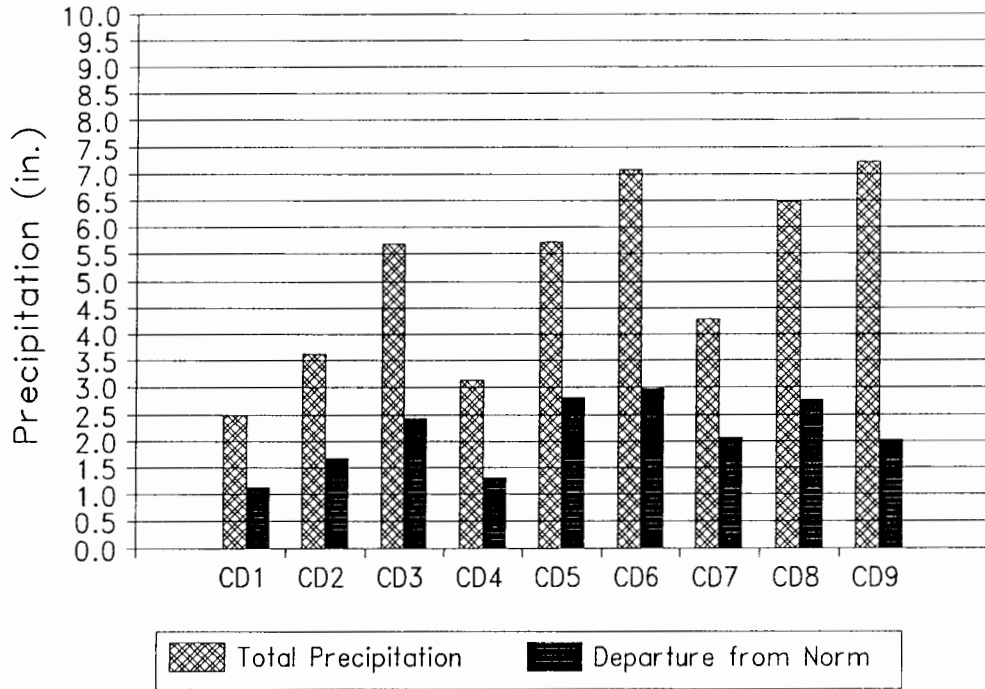
1992 and 1993 STATEWIDE TEMPERATURES Monthly Averages



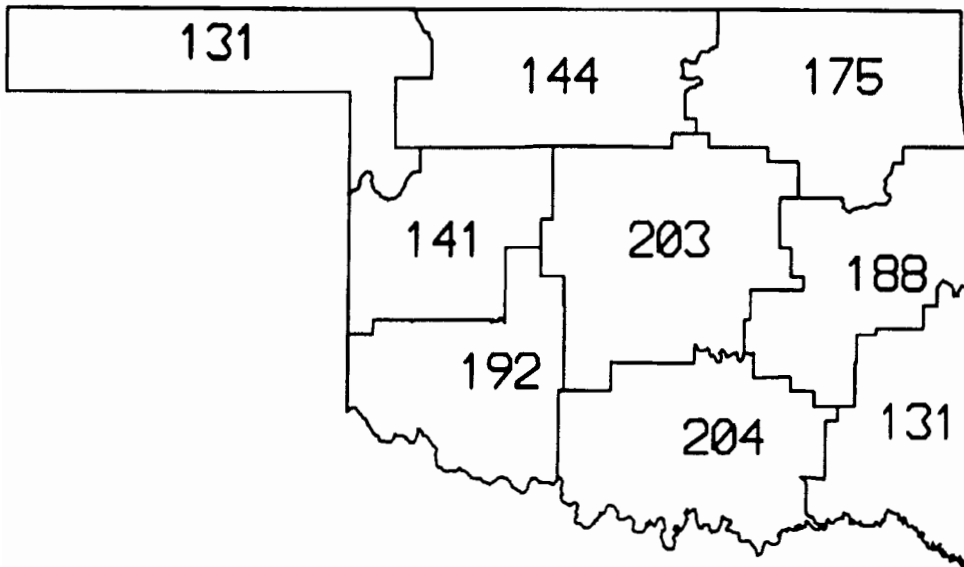
1992 and 1993 STATEWIDE PRECIPITATION Monthly Totals



CD Averaged Precipitation January-February 1993



CD PERCENT OF NORMAL PRECIPITATION



FEBRUARY 1993

EXTREME VALUES OF TEMPERATURE AND PRECIPITATION IN EACH CLIMATE DIVISION
FEBRUARY, 1993

CD	MAX			MIN			24-HOUR			MONTHLY	
	TEMP	DATE	LOCATION	TEMP	DATE	LOCATION	PRECIP	DATE	LOCATION	PRECIP	LOCATION
1	76	20	GAGE	-3	18	GAGE	.90	16	HOOGER	1.93	LAVERNE
2	76	20	WAYNOKA	-2	18	FREEDOM	.94	3	JEFFERSON	2.52	BRAMAN
				-2	19	FREEDOM					
				-2	18	MUTUAL					
				-2	18	WAYNOKA					
3	77	20	CLEVELAND	-2	18	HULAH DAM	2.35	16	HOLLOW	4.86	JAY TOWER
				-2	19	HULAH DAM					
4	80	21	WEATHERFORD	-4	18	TALOGA	1.20	10	RETROP	2.45	RETROP
5	79	20	CHICKASHA	2	18	HENNESSEY	2.80	15	WEWOKA	8.01	WEWOKA
	79	20	GUTHRIE								
6	76	20	MCALESTER	4	18	TAHLEQUAH	2.30	15	TAHLEQUAH	5.95	HOLDENVILLE
7	82	20	CARNEGIE	10	18	WICHITA MT	2.90	15	WALTERS	4.19	DUNCAN 12 W
8	80	20	HEALDTON	9	18	ADA	2.90	15	DUNCAN	6.06	ELMORE CITY
	80	20	PAULS VALLEY								
	80	20	WAURIKA								
9	72	1	ANTLERS	10	18	WILBURTON	1.87	11	HUGO	5.64	HUGO
	72	20	BOSWELL								

TABLE OF 1992/1993 COMPARISONS

Station	February Temperatures (F)		February Pricipitation (in.)	
	1992	1993	1992	1993
Arnett	43.4	33.9	.14	1.36
Enid	46.1	36.7	.27	1.75
Mutual	45.2	34.3	.53	1.05
Tulsa	50.3	40.5	1.32	2.56
Elk City	48.5	38.4	.74	1.68
Oklahoma City	50.7	38.8	1.28	2.80
McAlester	51.3	43.6	.92	3.83
Altus Irr Sta	48.8	42.5	1.61	2.20
Durant	51.4	43.0	2.64	5.62
Ada	49.9	41.7	.90	5.14
Antlers	50.6	43.8	2.80	3.89

EXTREMES

Variable	Station	Division	Observation	Date
Minimum temperature (F)	Beaver	1	-04	18
	Kenton	1	-04	18
Maximum temperature (F)	Carnegie	7	82	20
Maximum 24-hour precipitation	Idabel	9	3.10"	25

FEBRUARY 1993 SUMMARY FOR NORTHWEST DIVISION (CD1)

NAME	ID	CD	DEV				HEAT			COOL		DEV						
			MEAN TEMP	NUM OBS	FROM NORM	MAX TEMP	DEG DAY	FROM NORM	DEG DAY	DEG DAY	FROM NORM	TOT PPT	NUM OBS	FROM NORM	MAX 24-HR	DAY		
ARNETT	332	1	33.9	28	-3.2	73.	21	5.	18	871.0	90.0	.0	.0	1.362	28	.35	.66	15
BEAVER	593	1	32.0	28	-4.0	71.	21	-4.	18	925.0	113.0	.0	.0	1.812	28	1.03	.73	15
BOISE CITY 2 E	908	1	36.9	28	-1.1	66.	22	1.	18	787.0	31.0	.0	.0	1.233	28	.74	.54	2
BUFFALO	1243	1	37.8	28	-2.2	71.	7	-2.	18	761.0	61.0	.0	.0	.450	28	-.59	.30	10
FARGO	3070	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.341	22	*****	.56	15
GAGE FAA APT	3407	1	36.0	28	-2.9	76.	20	-3.	18	811.5	80.5	.0	.0	1.067	28	.23	.48	15
GATE	3489	1	33.1	28	-4.3	71.	8	-2.	18	893.0	120.0	.0	.0	2.022	28	1.18	.65	15
GOODWELL RES ST	3628	1	33.9	28	-2.2	70.	21	3.	18	870.0	61.0	.0	.0	.333	28	-.09	.32	15
GUYMON	3835	1	36.6	15	*****	69.	9	6.	18	426.5	*****	.0	*****	.001	19	*****	.00	18
HOOKER	4298	1	32.8	28	-4.9	69.	21	2.	18	901.5	137.5	.0	.0	1.135	28	.55	.90	16
KENTON	4766	1	32.8	26	*****	66.	21	-4.	18	837.5	*****	.0	*****	.722	28	.37	.42	13
LAVERNE	5045	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.932	28	.96	.79	15
OPTIMA LAKE	6740	1	32.9	28	*****	71.	21	3.	18	898.5	*****	.0	*****	.663	28	*****	.59	16
REGNIER	7534	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.862	28	.54	.45	14
TURPIN 4 SSE	9017	1	32.6	28	*****	67.	10	-2.	18	906.0	*****	.0	*****	.861	27	*****	.50	15

FEBRUARY 1993 SUMMARY FOR NORTH CENTRAL DIVISION (CD2)

NAME	ID	CD	DEV				HEAT			COOL		DEV						
			MEAN TEMP	NUM OBS	FROM NORM	MAX TEMP	DEG DAY	FROM NORM	DEG DAY	DEG DAY	FROM NORM	TOT PPT	NUM OBS	FROM NORM	MAX 24-HR	DAY		
ALVA	193	2	35.9	28	*****	68.	7	0.	18	816.0	*****	.0	*****	1.620	28	*****	.55	15
VANCE AFB	302	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.333	26	*****	.41	15
BILLINGS	755	2	34.8	28	-3.0	69.	9	3.	19	844.5	82.5	.0	.0	1.811	28	.42	.76	15
BLACKWELL 2E	818	2	36.0	28	-2.2	68.	8	3.	18	813.0	63.0	.0	.0	2.122	28	1.05	.55	15
BRAMAN	1075	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.521	27	*****	.90	3
CEDARDALE	1620	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.426	28	*****	.65	15
CHEROKEE	1724	2	37.0	28	-2.7	65.	9	5.	18	783.5	75.5	.0	.0	.750	28	-.40	.50	10
ENID	2912	2	36.7	28	-3.4	71.	20	4.	18	792.5	95.5	.0	.0	1.750	28	.34	.79	15
FT SUPPLY DAM	3304	2	33.8	28	-3.3	74.	21	-2.	18	874.5	93.5	.0	.0	1.152	28	.19	.52	15
FREEDOM	3358	2	33.7	28	-5.6	75.	21	-2.	19	877.5	157.5	.0	.0	1.840	28	.96	.80	11
GREAT SALT PLNS	3740	2	34.5	25	*****	66.	10	3.	18	763.0	*****	.0	*****	2.052	21	*****	.77	4
HARDY	3909	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.843	26	*****	.70	4
HELENA 1 SSE	4019	2	34.9	28	-1.8	71.	21	2.	19	841.5	49.5	.0	.0	1.853	28	.70	.59	4
JEFFERSON	4573	2	37.6	28	-1.6	67.	20	5.	18	766.0	44.0	.0	.0	1.542	28	.37	.94	3
LAMONT	5013	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.692	28	*****	.90	16
MEDFORD	5768	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.450	28	*****	.65	3
MORRISON	6065	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.061	28	*****	.55	15
MUTUAL	6139	2	34.3	28	-3.1	72.	21	-2.	18	859.0	86.0	.0	.0	1.050	28	-.02	.56	15
NEWKIRK	6278	2	36.2	28	-2.3	68.	8	1.	18	807.0	65.0	.0	.0	1.902	28	.73	.55	11
ORIENTA	6751	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.100	28	.07	.48	4
PERRY	7012	2	39.3	28	-1.5	75.	21	6.	18	720.0	42.0	.0	.0	2.200	28	.64	.62	15
PONCA CITY FAA	7201	2	38.2	28	.6	71.	8	6.	18	749.5	-17.5	.0	.0	2.228	28	.90	.54	16
RED ROCK 1 NNE	7505	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.990	28	.61	.70	15
WAYNOKA	9404	2	36.1	28	-3.9	76.	20	-2.	18	808.0	108.0	.0	.0	1.300	28	.22	.58	15
WOODWARD	9760	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.333	28	.30	.52	15

FEBRUARY 1993 SUMMARY FOR NORTHEAST DIVISION (CD3)

NAME	ID	CD	DEV				HEAT			COOL		DEV		TOT	NUM	DEV		24-HR	DAY
			MEAN	NUM	FROM	MAX	MIN	DEG	FROM	DEG	FROM	DEG	FROM			MAX			
			TEMP	OBS	NORM	TEMP	DAY	TEMP	DAY	DAY	NORM	DAY	NORM	PPT	OBS	NORM	24-HR	DAY	
BARNSDALL	535	3	37.4	27	-2.6	71.	20	-1.	18	746.5	46.5	.0	.0	3.093	28	1.24	.99	15	
BARTLESVILLE 2W	548	3	37.4	28	-2.6	70.	8	1.	18	773.5	73.5	.0	.0	2.844	28	1.26	.70	25	
BIXBY	782	3	37.8	28	-1.1	72.	21	8.	18	762.5	31.5	.0	.0	3.020	28	1.19	2.00	25	
BURBANK	1256	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.774	28	1.37	.85	15	
CHELSEA 4 S	1717	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.790	28	*****	1.13	25	
CLAREMORE	1828	3	37.4	28	-.8	69.	9	7.	19	773.5	23.5	.0	.0	3.350	28	1.35	1.27	25	
CLEVELAND 5 WSW	1902	3	40.1	25	*****	77.	20	4.	18	623.0	*****	.0	*****	4.030	28	*****	1.25	25	
FORAKER	3250	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.850	28	.52	.33	5	
HOLLOW	4258	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.552	28	2.77	2.35	16	
HOMINY	4289	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.183	28	1.52	.80	16	
HULAH DAM	4393	3	36.9	17	*****	70.	10	-2.	19	478.5	*****	.0	*****	1.612	26	*****	1.00	5	
JAY TOWER	4567	3	37.7	28	*****	70.	9	0.	18	764.0	*****	.0	*****	4.860	28	*****	1.20	15	
KANSAS 1 ESE	4672	3	38.3	28	-2.7	67.	8	0.	18	748.5	76.5	.0	.0	4.526	28	2.19	1.50	25	
KEYSTONE DAM	4812	3	37.2	24	*****	75.	21	5.	18	667.5	*****	.0	*****	4.242	26	*****	1.25	16	
LENAPAH	5118	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.322	26	*****	.33	11	
MANNFORD 6 NW	5522	3	39.9	26	*****	76.	20	2.	18	652.5	*****	.0	*****	3.190	28	1.24	.91	25	
MARAMEC	5540	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.940	28	2.38	.88	15	
MIAMI	5855	3	36.7	28	-1.0	67.	10	0.	18	793.0	29.0	.0	.0	2.830	25	*****	1.25	16	
NOWATA	6485	3	36.6	28	-2.9	68.	9	-1.	18	794.0	80.0	.0	.0	2.262	28	.39	.95	16	
ONETA 1 WNW	6713	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.841	28	*****	1.23	25	
PAWHUSKA	6935	3	37.9	28	-1.6	74.	20	0.	18	759.5	45.5	.0	.0	2.952	28	1.15	.74	15	
PAWNEE	6940	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.430	28	.74	.75	15	
PRYOR 6 N	7309	3	36.4	28	-1.6	68.	9	4.	18	800.0	44.0	.0	.0	3.195	26	*****	1.20	25	
RALSTON	7390	3	38.8	28	-1.2	76.	21	3.	18	734.0	34.0	.0	.0	2.881	28	1.25	.60	4	
RAMONA 4 N	7394	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.131	28	*****	.80	25	
SKIATOOK	8258	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.710	28	-.09	.64	16	
SPAVINAW	8380	3	39.7	28	-1.6	68.	8	4.	18	709.5	45.5	.0	.0	4.101	28	2.16	1.14	25	
TULSA WSO APT	8992	3	40.5	23	*****	72.	20	6.	18	563.5	*****	.0	*****	2.565	28	.60	.98	25	
UPPER SPAVINAW	9101	3	41.5	24	*****	66.	9	8.	18	564.5	*****	.0	*****	3.662	28	*****	1.30	25	
VINITA 2 N	9203	3	36.5	28	-2.3	67.	9	0.	18	797.0	63.0	.0	.0	2.000	28	-.04	.99	25	
WAGONER	9247	3	39.4	28	-2.4	68.	9	8.	18	716.0	66.0	.0	.0	4.131	28	2.06	1.37	25	
WANN	9298	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.260	28	*****	.63	25	
WYONONA	9792	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.683	28	*****	.80	15	

FEBRUARY 1993 SUMMARY FOR WEST CENTRAL DIVISION (CD4)

NAME	ID	CD	DEV				HEAT			COOL		DEV		TOT	NUM	DEV		24-HR	DAY
			MEAN	NUM	FROM	MAX	MIN	DEG	FROM	DEG	FROM	DEG	FROM			MAX			
			TEMP	OBS	NORM	TEMP	DAY	TEMP	DAY	DAY	NORM	DAY	NORM	PPT	OBS	NORM	24-HR	DAY	
CANTON DAM	1445	4	35.5	27	-2.9	76.	21	0.	18	797.0	52.0	.0	.0	1.632	28	.58	.50	16	
CHEYENNE	1738	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.372	28	-.61	.37	10	
CLINTON	1909	4	39.6	28	-1.9	79.	20	10.	18	711.5	53.5	.0	.0	1.733	28	.54	.86	15	
COLONY	2039	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.090	28	*****	.87	15	
CORDELL	2125	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.595	28	.39	.90	15	
ELK CITY 1 E	2849	4	38.4	28	-2.7	78.	20	10.	18	746.0	77.0	.0	.0	1.683	28	.48	.72	10	
ERICK 4 E	2944	4	39.1	28	-2.4	78.	20	11.	18	724.0	66.0	.0	.0	1.092	28	.12	.51	16	
GEARY	3497	4	41.3	28	.8	78.	20	13.	18	665.0	-24.0	.0	.0	1.220	28	-.01	.37	5	
HAMMON 1 NNE	3871	4	35.4	28	-3.4	77.	21	10.	18	829.5	95.5	.0	.0	1.283	28	.23	.72	15	
LEEDEY	5090	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.200	28	.18	.64	18	
MACKIE 4 NNW	5463	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.300	28	*****	.70	15	
MORAVIA 2 NNE	6035	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.051	28	.89	.86	10	
OKEENE	6629	4	37.8	28	-3.4	74.	20	3.	18	761.5	95.5	.0	.0	1.990	28	.78	.60	15	
RETROP	7565	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.450	28	*****	1.20	10	
REYDON	7579	4	41.4	28	1.2	79.	20	14.	18	661.5	-32.5	.0	.0	.490	28	-.49	.24	10	
SAYRE	7952	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.342	28	.52	.65	15	
TALOGA	8708	4	37.1	28	-2.7	76.	20	0.	18	782.5	76.5	.0	.0	1.682	28	.59	.95	15	
THOMAS	8815	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.100	28	*****	1.10	16	
VICI	9172	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.920	28	.72	1.02	15	
WATONGA	9364	4	37.7	28	-2.6	77.	20	2.	18	765.5	73.5	.0	.0	2.395	28	1.13	.92	15	
WEATHERFORD	9422	4	37.7	28	-1.2	80.	21	5.	18	764.0	33.0	.0	.0	2.062	28	.92	.90	15	

FEBRUARY 1993 SUMMARY FOR CENTRAL DIVISION (CD5)

Table with columns: NAME, ID, CD, MEAN TEMP, NUM OBS, DEV FROM NORM, MAX TEMP, 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. Lists weather data for stations like AMBER, ARCADIA, TINKER AFB, etc.

FEBRUARY 1993 SUMMARY FOR EAST CENTRAL DIVISION (CD6)

Table with columns: NAME, ID, CD, MEAN TEMP, NUM OBS, DEV FROM NORM, MAX TEMP, 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. Lists weather data for stations like ASHLAND, BEGGS, BOYNTON, etc.

FEBRUARY 1993 SUMMARY FOR SOUTHWEST DIVISION (CD7)

NAME	ID	CD	DEV					HEAT		DEV		COOL		DEV		TOT	NUM	FROM	MAX	DAY
			MEAN	NUM	FROM	MAX	MIN	DEG	FROM	DEG	FROM	DEG	FROM	PPT	OBS					
ALTUS IRR STA	179	7	42.5	28	-1.8	78.	20	15.	18	630.5	50.5	.0	.0	2.200	28	1.10	.88	15		
ALTUS DAM	184	7	37.7	26	*****	74.	21	14.	18	709.5	*****	.0	*****	1.970	28	.78	.85	10		
ANADARKO	224	7	40.2	28	-1.8	81.	20	11.	18	695.0	51.0	.0	.0	1.141	28	-.27	.43	25		
APACHE	260	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.620	28	1.18	1.08	15		
ALTUS AFB	447	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.351	27	*****	.92	15		
CARNEGIE 2 ENE	1504	7	40.7	28	-1.3	82.	20	12.	18	681.0	37.0	.0	.0	2.181	28	.83	.54	28		
CHATTANOOGA	1706	7	43.0	28	-.8	78.	20	15.	18	616.0	22.0	.0	.0	2.590	28	1.19	1.59	15		
DUNCAN 11 W	2668	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.190	28	*****	2.23	14		
FREDERICK	3353	7	39.9	28	-2.7	78.	21	14.	18	704.0	77.0	.0	.0	3.100	28	1.81	2.10	15		
GRANDFIELD 4 NW	3709	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.770	28	1.32	2.05	15		
HOBART FAA APT	4204	7	41.0	27	-.9	76.	20	14.	18	648.0	1.0	.0	.0	1.922	28	.87	.52	15		
HOLLIS	4249	7	41.2	26	*****	79.	20	14.	18	620.0	*****	.0	*****	1.473	26	*****	.77	10		
LAWTON	5063	7	40.2	28	-1.7	80.	21	14.	18	695.0	48.0	.0	.0	3.212	28	1.90	1.63	15		
FORT SILL	5068	7	41.3	28	*****	81.	20	14.	18	664.5	*****	.0	*****	2.896	28	*****	1.28	15		
LOOKEBA 2 ENE	5329	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.742	28	1.43	.80	15		
MANGUM RES STA	5509	7	40.7	28	-2.8	79.	20	12.	18	679.5	77.5	.0	.0	1.390	28	.27	.58	10		
RANDLETT 9 E	7403	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.150	28	*****	2.00	15		
ROOSEVELT	7727	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.110	28	.97	.95	15		
SEDAN	8016	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.660	28	*****	.60	15		
SNYDER	8299	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.030	28	.80	.96	15		
VINSON 3 WNW	9212	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.650	28	.78	.85	10		
WALTERS	9278	7	42.0	28	-2.7	77.	21	15.	18	643.5	75.5	.0	.0	3.990	28	2.19	2.90	15		
WICHITA MT WLR	9629	7	38.1	28	-2.8	78.	21	10.	18	753.5	78.5	.0	.0	2.040	28	.58	1.00	15		
WILLOW	9668	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.473	28	*****	1.08	10		

FEBRUARY 1993 SUMMARY FOR SOUTH CENTRAL DIVISION (CD8)

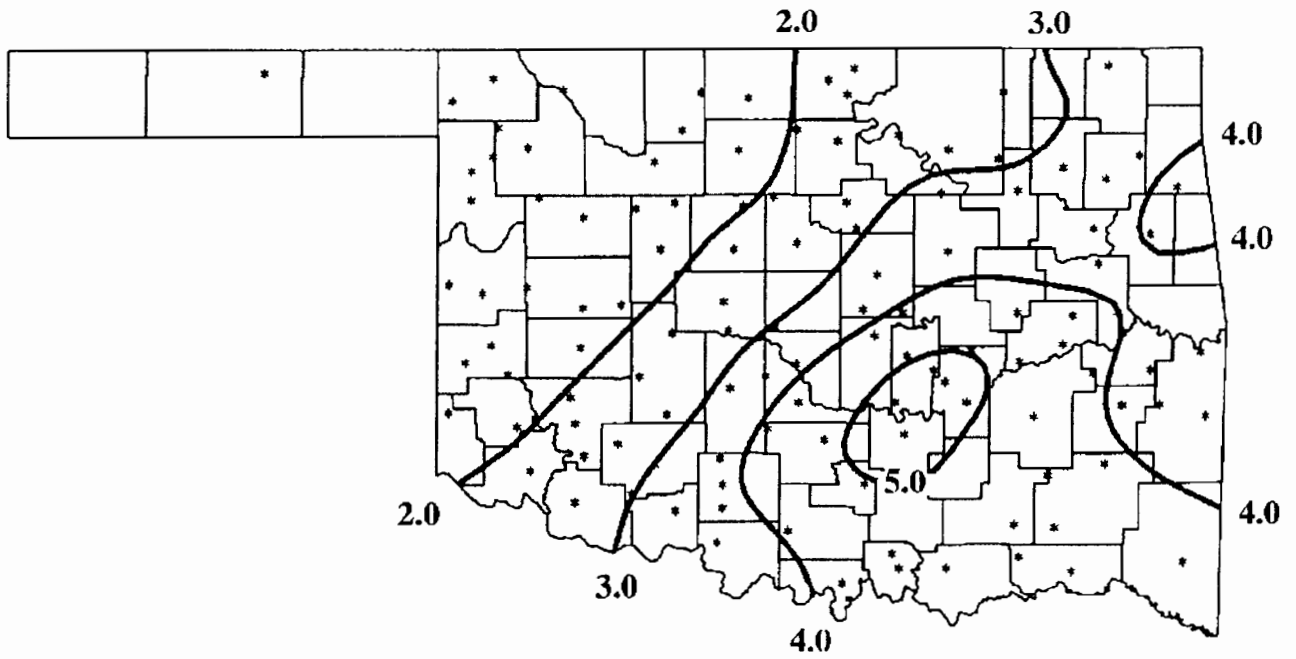
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			MEAN	NUM	FROM	MAX	MIN	DEG	FROM	DEG	FROM	DEG	FROM	PPT	OBS					
ADA	17	8	41.7	28	-2.0	72.	21	9.	18	653.5	57.5	.0	.0	5.142	28	2.99	1.90	15		
ALLEN	147	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.150	28	*****	2.75	15		
ARDMORE	292	8	43.8	28	-2.7	72.	20	13.	18	594.0	70.0	.0	-6.0	4.521	28	2.50	2.59	15		
ATOKA DAM	394	8	42.4	20	*****	73.	22	14.	18	452.5	*****	.0	*****	4.830	20	*****	1.94	15		
BOKCHITO	917	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.400	28	*****	1.44	26		
CANEY	1437	8	43.6	22	*****	70.	20	12.	18	471.0	*****	.0	*****	5.070	28	*****	1.45	15		
CENTRAHOMA	1648	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.000	28	*****	1.70	15		
CHICKASAW NRA	1745	8	41.0	28	-1.2	72.	21	11.	18	671.5	33.5	.0	.0	4.950	28	2.97	2.42	15		
COLEMAN	2011	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.040	28	*****	.95	26		
COMANCHE	2054	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.550	28	1.81	2.22	15		
DAISY 4 ENE	2354	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.681	28	.56	1.49	15		
DUNCAN	2660	8	41.4	28	-1.3	77.	21	17.	19	661.0	37.0	.0	.0	4.772	28	3.07	2.90	15		
DURANT USDA	2678	8	43.0	28	-.5	72.	21	13.	18	616.0	14.0	.0	.0	5.620	28	2.99	1.50	15		
ELMORE CITY	2872	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.061	28	*****	2.20	14		
FARRIS 3 WNW	3083	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.730	28	1.80	1.12	18		
GRADY	3688	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.760	28	*****	2.02	15		
HEALDTON	4001	8	43.1	28	-1.3	80.	20	16.	18	614.5	37.5	.0	.0	3.960	28	2.13	2.06	15		
HENNEPIN	4052	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.340	28	*****	1.87	15		
KETCHUM RANCH	4780	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.511	28	*****	2.50	15		
KINGSTON	4865	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.850	28	1.22	1.82	15		
LEHIGH	5108	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.602	28	*****	1.30	15		
LINDSAY 2 W	5216	8	41.3	25	*****	78.	20	12.	18	592.5	*****	.0	*****	3.931	27	*****	2.00	15		
LOCO 6 SE	5247	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.320	28	*****	1.59	15		
MADILL	5468	8	43.0	28	-2.4	70.	20	14.	18	617.0	68.0	.0	.0	4.894	28	2.34	2.02	14		
MARIETTA	5563	8	45.0	28	-.6	71.	20	18.	18	561.0	18.0	.0	.0	3.730	28	1.57	1.83	15		
MARLOW 1 WSW	5581	8	41.8	28	-1.8	77.	20	10.	18	651.0	49.0	.0	.0	3.423	28	1.83	1.98	15		
MCGEE CREEK DAM	5713	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.090	28	*****	1.27	15		
PAULS VALLEY	6926	8	42.0	28	-1.9	80.	20	11.	18	643.5	52.5	.0	.0	5.562	28	3.71	2.40	15		
PONTOTOC	7214	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.901	28	3.77	1.87	14		
TISHOMINGO NWLR	8884	8	41.1	17	*****	69.	8	14.	18	406.0	*****	.0	*****	4.660	26	*****	1.90	16		
TUSSY	9032	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.591	28	*****	1.97	15		
WAURIKA	9395	8	44.5	28	-.9	80.	20	17.	18	575.0	26.0	.0	.0	3.240	28	1.62	1.76	15		
WAURIKA DAM	9399	8	41.8	20	*****	70.	11	17.	18	463.0	*****	.0	*****	3.471	20	*****	2.15	16		

FEBRUARY 1993 SUMMARY FOR SOUTHEAST DIVISION (CD9)

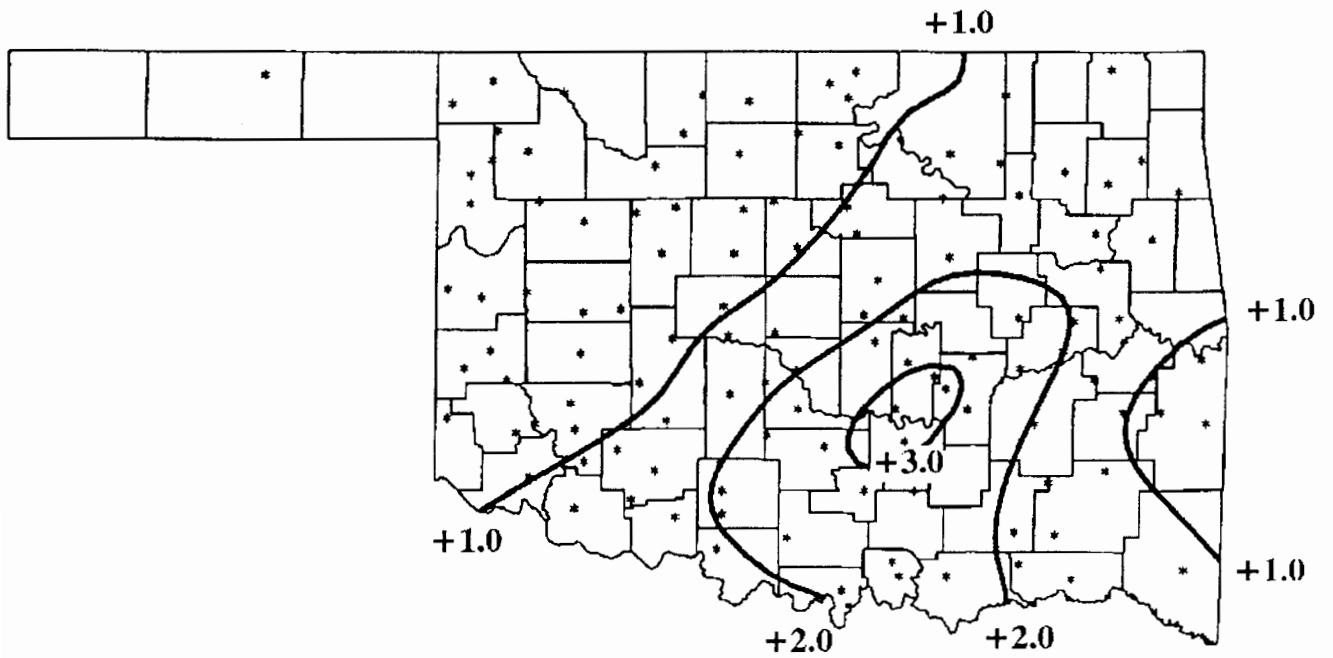
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			MEAN	NUM	FROM	MAX	MIN	DEG	FROM	DEG	FROM	DEG	FROM	DEG	PPT	NUM	FROM	MAX	24-HR
ANTLERS	256	9	43.8	28	-1.0	72.	1	14.	18	592.5	26.5	.0	.0	3.890	28	1.18	1.02	15	
BATTIEST 1 SSW	567	9	40.2	28	****	68.	1	11.	18	694.0	****	.0	****	4.390	28	****	1.45	16	
BEAR MT TWR	584	9	44.7	28	-1.5	70.	2	14.	18	569.0	43.0	.0	.0	3.761	23	****	1.42	25	
BENGAL	670	9	****	0	****	****	0	****	0	****	****	****	****	4.260	28	****	1.33	15	
BOSWELL 4 NNW	980	9	43.6	24	****	72.	20	14.	18	513.5	****	.0	****	4.774	28	1.71	1.45	25	
BROKEN BOW 1 N	1162	9	****	0	****	****	0	****	0	****	****	****	****	4.440	28	.94	1.66	25	
BROKEN BOW DAM	1168	9	44.5	28	.8	72.	2	18.	19	575.0	-21.0	.0	.0	3.001	26	****	1.27	16	
CARNASAW TWR	1499	9	****	0	****	****	0	****	0	****	****	****	****	3.160	28	-.38	1.49	25	
CARTER TWR	1544	9	****	0	****	****	0	****	0	****	****	****	****	3.380	28	-.19	1.35	25	
FANSHAWE	3065	9	****	0	****	****	0	****	0	****	****	****	****	4.010	28	.87	1.40	15	
HEAVENER 1 SE	4008	9	****	0	****	****	0	****	0	****	****	****	****	3.061	28	.12	.95	16	
HEE MT TWR	4017	9	****	0	****	****	0	****	0	****	****	****	****	4.821	28	1.18	1.60	16	
HUGO	4384	9	45.1	28	-1.5	71.	20	15.	18	556.0	41.0	.0	.0	5.642	28	2.31	1.87	11	
IDABEL	4451	9	44.1	28	-.3	73.	21	13.	18	585.0	8.0	.0	.0	6.522	28	2.99	3.10	25	
POTEAU	7246	9	39.6	28	-4.5	69.	10	13.	19	712.5	127.5	.0	.0	2.545	28	-.38	1.07	25	
SMITHVILLE 1 W	8285	9	40.7	28	-2.2	71.	1	11.	18	679.5	60.5	.0	.0	4.715	28	1.08	1.85	15	
SPIRO	8416	9	****	0	****	****	0	****	0	****	****	****	****	3.010	31	.13	.76	16	
TUSKAHOMA	9023	9	42.4	28	-2.5	70.	1	11.	18	632.5	69.5	.0	.0	4.691	28	1.75	1.25	25	
VALLIANT 3 W	9118	9	****	0	****	****	0	****	0	****	****	****	****	4.531	28	1.06	1.46	25	
WILBURTON 9 ENE9634	9	41.4	28	-1.8	70.	8	10.	18	662.0	52.0	.0	.0	3.473	28	.44	1.26	14		

FEBRUARY 1993 CLIMATE DIVISION SUMMARY

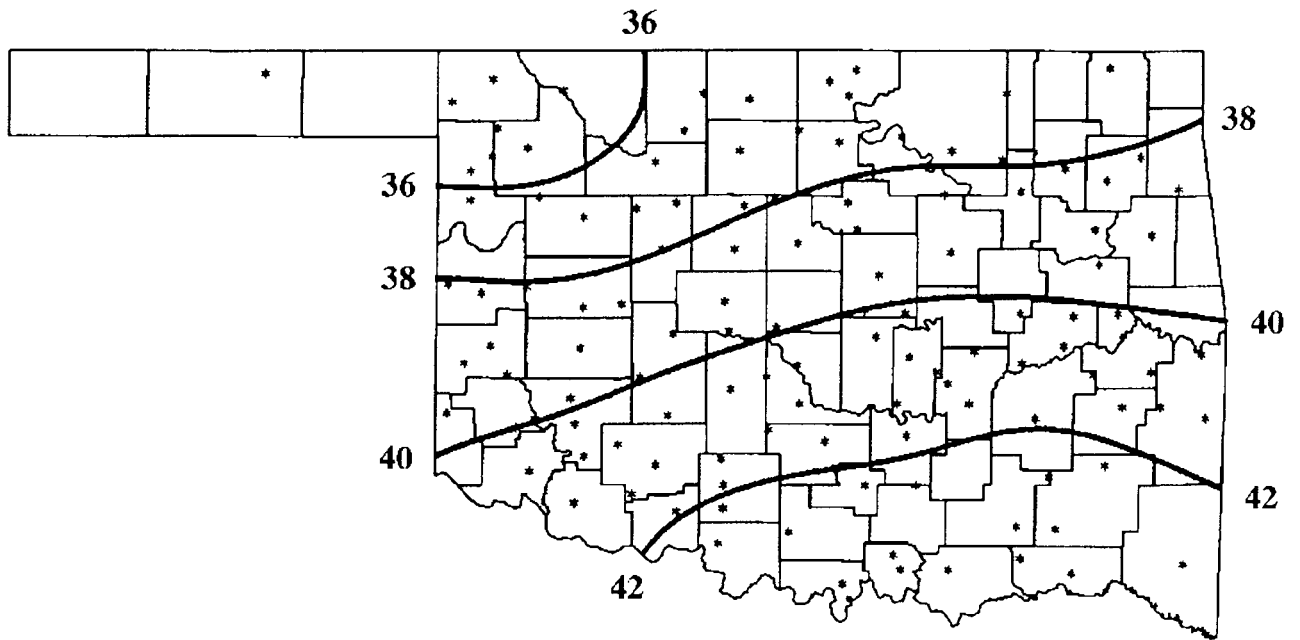
CLIMATE	MEAN	NUM	DEV				HEAT			DEV		COOL		DEV		TOT		DEV	
			TEMP	STA	FROM	MAX	MIN	DEGREE	FROM	DEGREE	FROM	DEGREE	FROM	DEGREE	PPT	NUM	FROM	MAX	24-HR
1	34.2	10	-3.3	76.0	20	-4.0	18	862.5	91.6	.0	.0	1.13	12	.41	.90	16			
2	36.0	14	-2.6	76.0	20	-2.0	18	810.9	73.8	.0	.0	1.67	21	.51	.94	3			
3	37.7	14	-1.8	77.0	20	-2.0	19	762.3	47.5	.0	.0	3.13	28	1.32	2.35	16			
4	38.3	11	-2.1	80.0	21	.0	18	746.2	56.4	.0	.0	1.56	21	.45	1.20	10			
5	39.8	13	-2.0	79.0	20	2.0	18	705.7	54.9	.0	.0	3.55	34	1.81	2.80	15			
6	40.3	12	-2.0	76.0	20	4.0	18	692.1	54.7	.0	-.5	4.21	28	1.86	2.62	25			
7	40.9	11	-1.9	82.0	20	10.0	18	673.7	50.5	.0	.0	2.46	22	1.18	2.90	15			
8	42.7	11	-1.4	80.0	20	9.0	18	623.5	39.0	.0	-.4	4.43	29	2.26	2.90	15			
9	42.7	10	-1.9	73.0	21	10.0	18	625.8	54.7	.0	.0	4.18	18	.91	3.10	25			



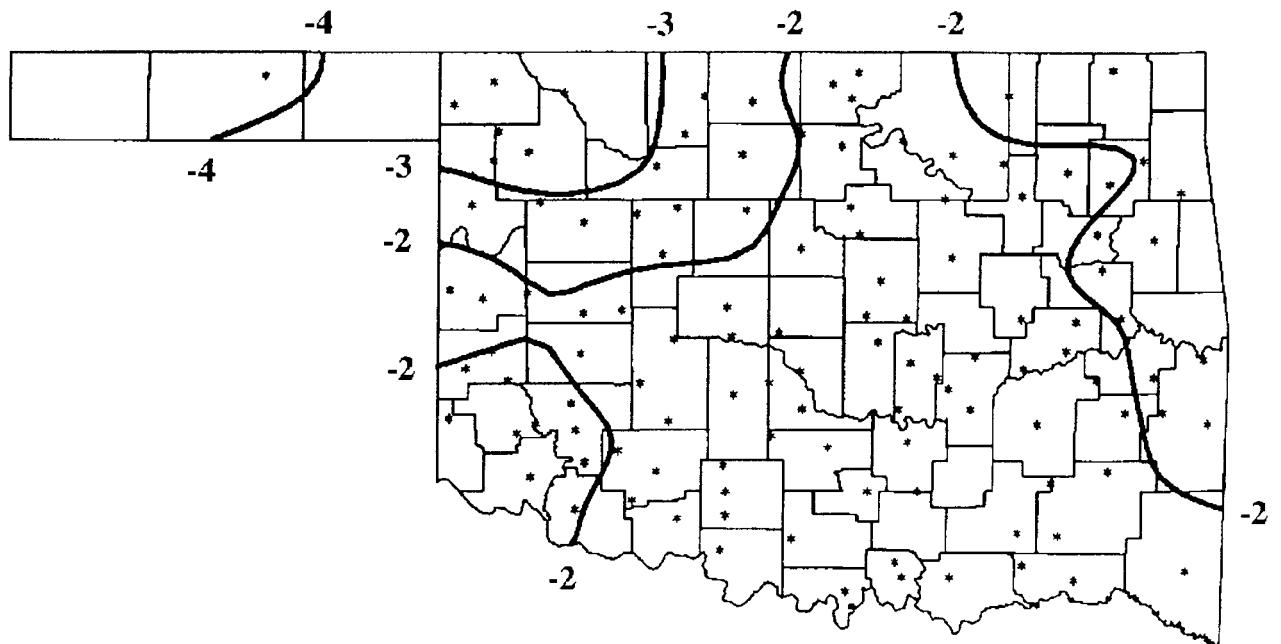
FEBRUARY 1993 TOTAL PRECIPITATION
(Inches)



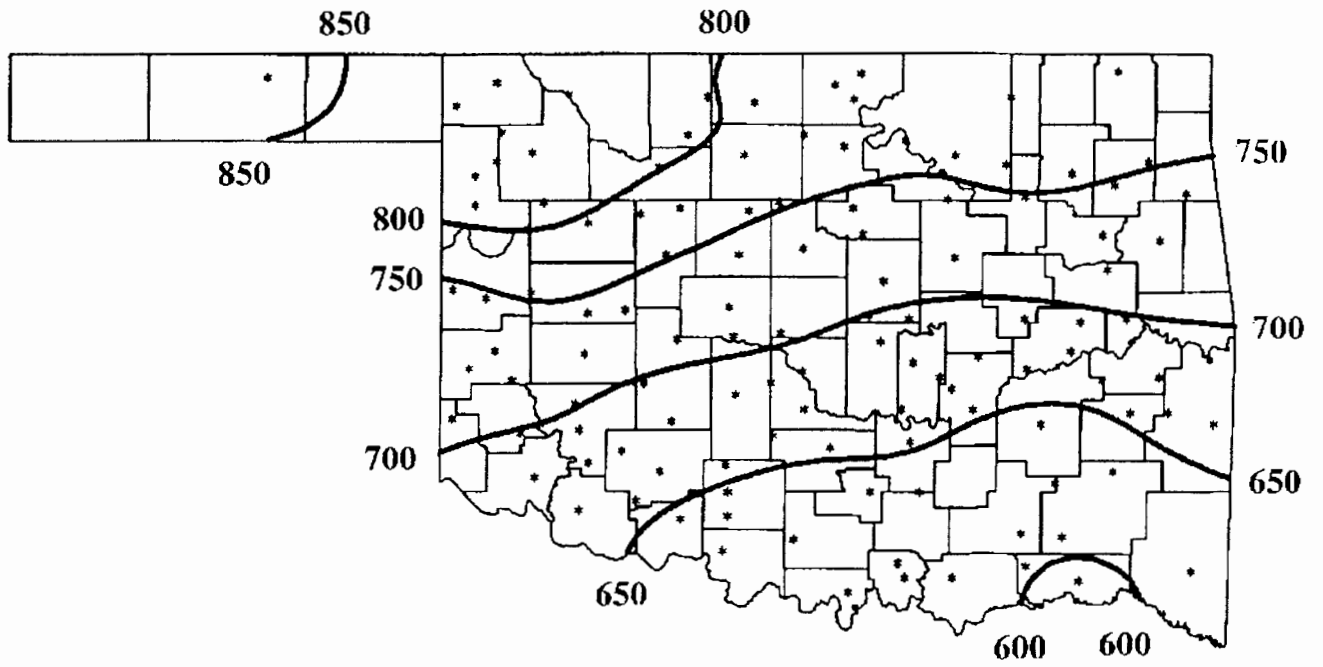
FEBRUARY 1993 DEVIATION FROM NORMAL PRECIPITATION
(Inches)



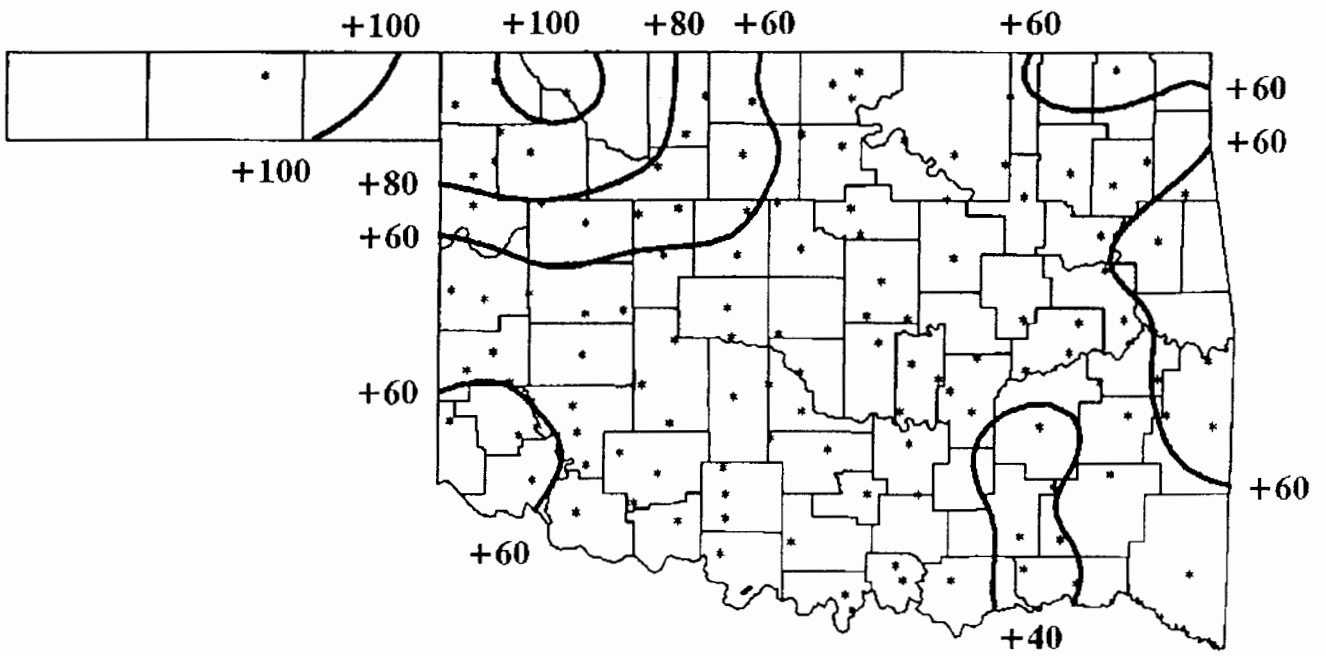
FEBRUARY 1993 AVERAGE MONTHLY TEMPERATURES
(Degrees F)



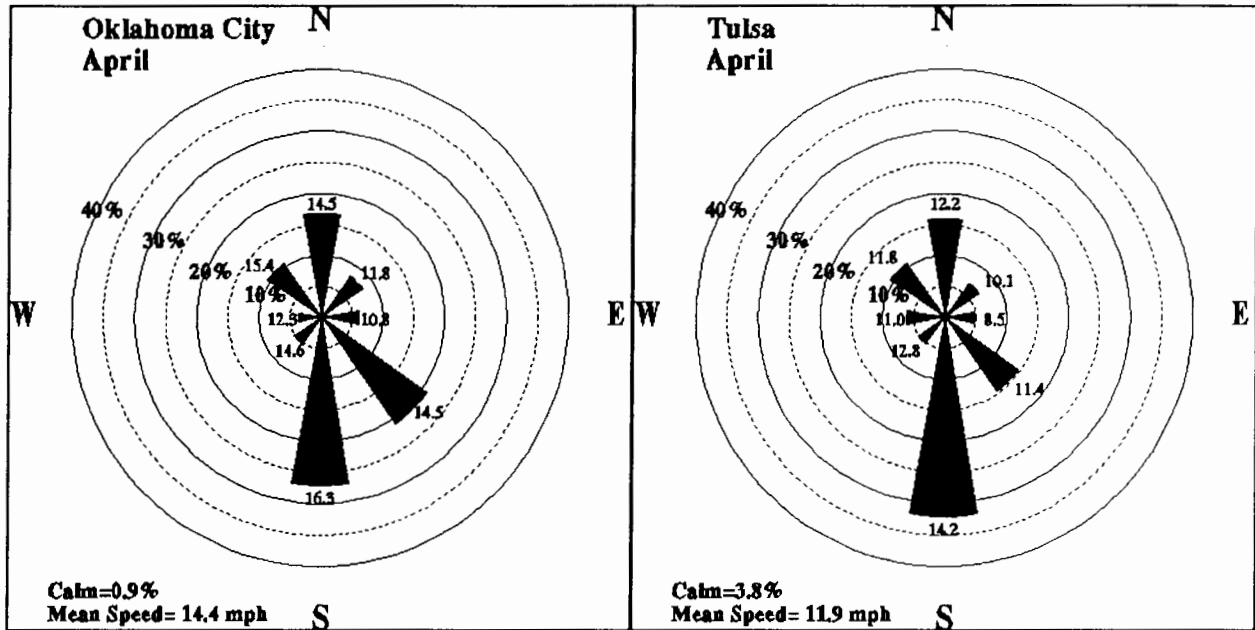
FEBRUARY 1993 DEVIATION FROM NORMAL TEMPERATURES
(Degrees F)



FEBRUARY 1993 HEATING DEGREE DAYS



FEBRUARY 1993 DEVIATION FROM NORMAL HEATING DEGREE DAYS



April Wind Roses for Oklahoma City and Tulsa. Percents represent the frequency of winds from each direction. The numbers at the ends of the bars indicate the average wind speed (miles per hour) from that direction.

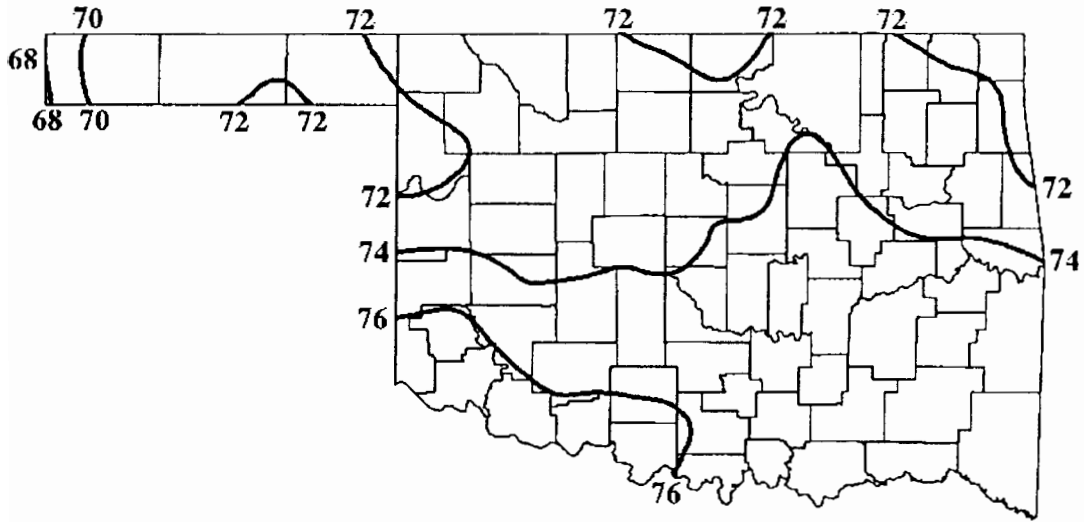
APRIL 1993 SUNRISE AND SUNSET

OKLAHOMA CITY

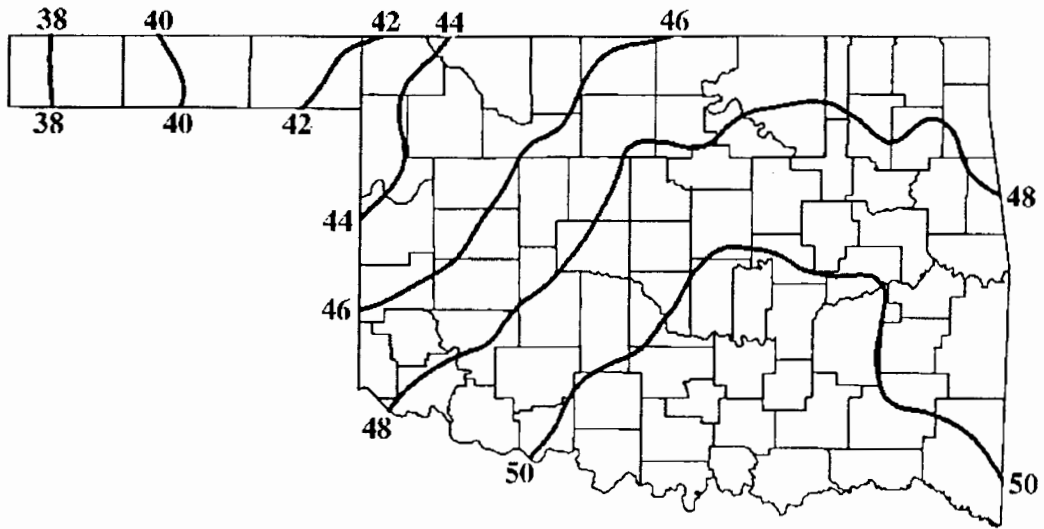
DATE	SUNRISE	SUNSET	DAYLIGHT
93 4 1	6:19AM	6:51PM CST	12 hrs 32 mins
93 4 2	6:17AM	6:51PM CST	12 hrs 34 mins
93 4 3	6:16AM	6:52PM CST	12 hrs 36 mins
93 4 4	7:14AM	7:53PM CDT	12 hrs 39 mins
93 4 5	7:13AM	7:54PM CDT	12 hrs 41 mins
93 4 6	7:12AM	7:55PM CDT	12 hrs 43 mins
93 4 7	7:10AM	7:55PM CDT	12 hrs 45 mins
93 4 8	7: 9AM	7:56PM CDT	12 hrs 47 mins
93 4 9	7: 7AM	7:57PM CDT	12 hrs 50 mins
93 410	7: 6AM	7:58PM CDT	12 hrs 52 mins
93 411	7: 5AM	7:58PM CDT	12 hrs 54 mins
93 412	7: 3AM	7:59PM CDT	12 hrs 56 mins
93 413	7: 2AM	8: 0PM CDT	12 hrs 58 mins
93 414	7: 1AM	8: 1PM CDT	13 hrs 0 mins
93 415	6:59AM	8: 2PM CDT	13 hrs 2 mins
93 416	6:58AM	8: 2PM CDT	13 hrs 4 mins
93 417	6:57AM	8: 3PM CDT	13 hrs 7 mins
93 418	6:55AM	8: 4PM CDT	13 hrs 9 mins
93 419	6:54AM	8: 5PM CDT	13 hrs 11 mins
93 420	6:53AM	8: 6PM CDT	13 hrs 13 mins
93 421	6:52AM	8: 6PM CDT	13 hrs 15 mins
93 422	6:50AM	8: 7PM CDT	13 hrs 17 mins
93 423	6:49AM	8: 8PM CDT	13 hrs 19 mins
93 424	6:48AM	8: 9PM CDT	13 hrs 21 mins
93 425	6:47AM	8:10PM CDT	13 hrs 23 mins
93 426	6:46AM	8:10PM CDT	13 hrs 25 mins
93 427	6:45AM	8:11PM CDT	13 hrs 27 mins
93 428	6:44AM	8:12PM CDT	13 hrs 28 mins
93 429	6:42AM	8:13PM CDT	13 hrs 30 mins
93 430	6:41AM	8:14PM CDT	13 hrs 32 mins

TULSA

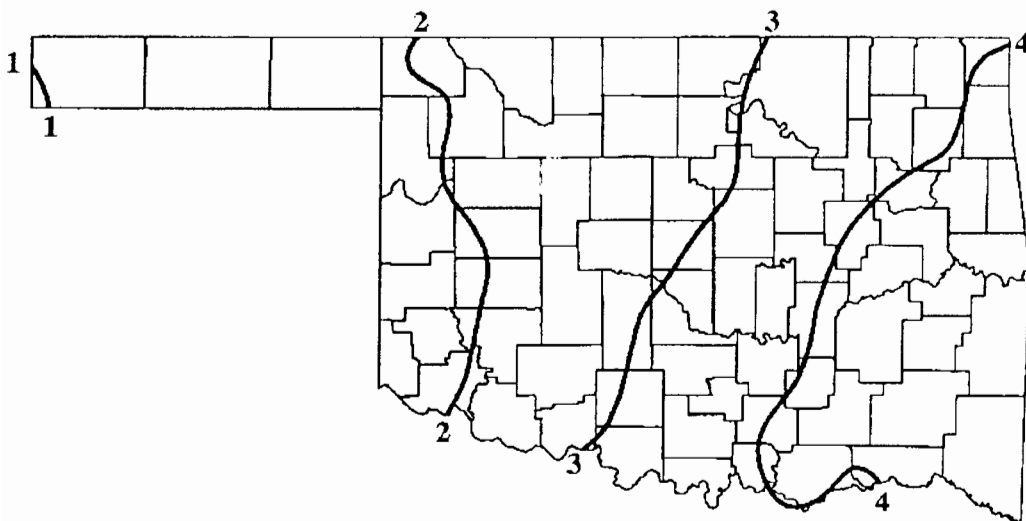
DATE	SUNRISE	SUNSET	DAYLIGHT
93 4 1	6:11AM	6:44PM CST	12 hrs 33 mins
93 4 2	6:10AM	6:45PM CST	12 hrs 35 mins
93 4 3	6: 8AM	6:46PM CST	12 hrs 37 mins
93 4 4	7: 7AM	7:47PM CDT	12 hrs 40 mins
93 4 5	7: 6AM	7:47PM CDT	12 hrs 42 mins
93 4 6	7: 4AM	7:48PM CDT	12 hrs 44 mins
93 4 7	7: 3AM	7:49PM CDT	12 hrs 46 mins
93 4 8	7: 1AM	7:50PM CDT	12 hrs 49 mins
93 4 9	7: 0AM	7:51PM CDT	12 hrs 51 mins
93 410	6:59AM	7:52PM CDT	12 hrs 53 mins
93 411	6:57AM	7:52PM CDT	12 hrs 55 mins
93 412	6:56AM	7:53PM CDT	12 hrs 57 mins
93 413	6:54AM	7:54PM CDT	13 hrs 0 mins
93 414	6:53AM	7:55PM CDT	13 hrs 2 mins
93 415	6:52AM	7:56PM CDT	13 hrs 4 mins
93 416	6:50AM	7:57PM CDT	13 hrs 6 mins
93 417	6:49AM	7:57PM CDT	13 hrs 8 mins
93 418	6:48AM	7:58PM CDT	13 hrs 10 mins
93 419	6:46AM	7:59PM CDT	13 hrs 13 mins
93 420	6:45AM	8: 0PM CDT	13 hrs 15 mins
93 421	6:44AM	8: 1PM CDT	13 hrs 17 mins
93 422	6:43AM	8: 1PM CDT	13 hrs 19 mins
93 423	6:41AM	8: 2PM CDT	13 hrs 21 mins
93 424	6:40AM	8: 3PM CDT	13 hrs 23 mins
93 425	6:39AM	8: 4PM CDT	13 hrs 25 mins
93 426	6:38AM	8: 5PM CDT	13 hrs 27 mins
93 427	6:37AM	8: 6PM CDT	13 hrs 29 mins
93 428	6:35AM	8: 6PM CDT	13 hrs 31 mins
93 429	6:34AM	8: 7PM CDT	13 hrs 33 mins
93 430	6:33AM	8: 8PM CDT	13 hrs 35 mins



April Normal Daily Maximum Temperatures (°F)



April Normal Daily Minimum Temperatures (°F)



April Normal Monthly Precipitation (inches)

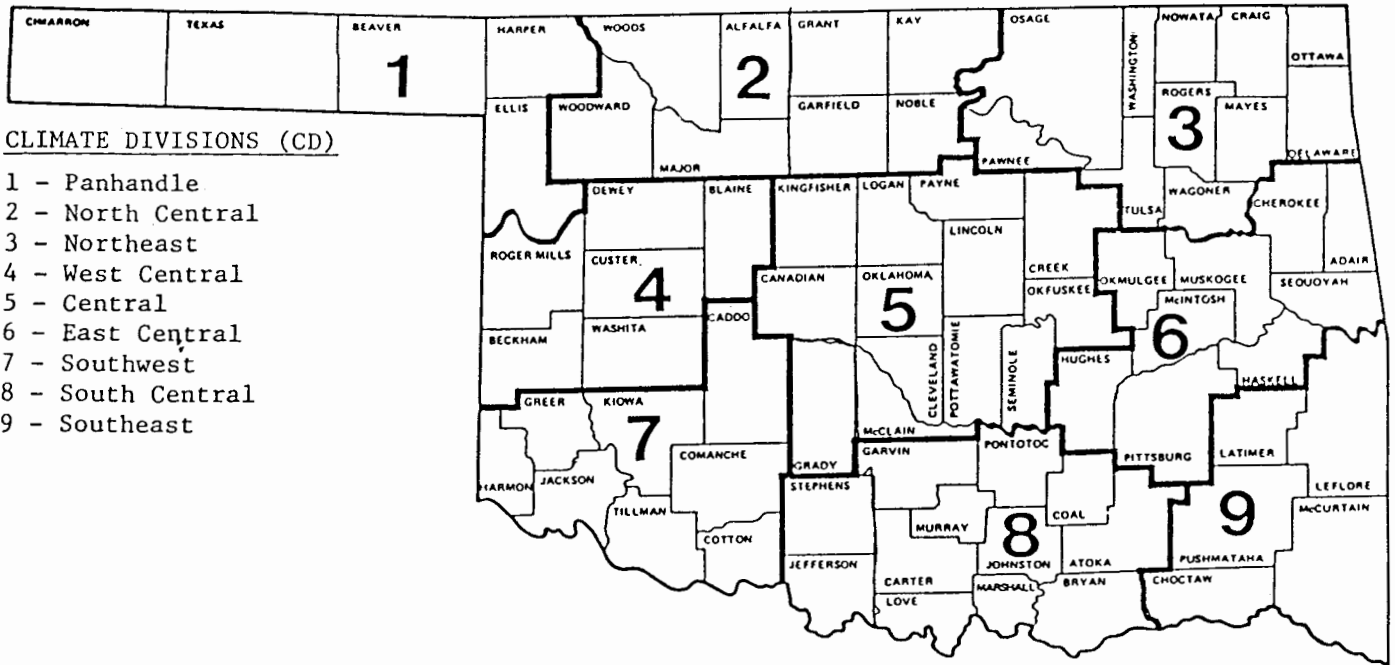
90-DAY NATIONAL WEATHER SERVICE OUTLOOK

(MARCH 1993 - MAY 1993)

Precipitation - Near Normal Statewide

Temperature - Near Normal Statewide

O K L A H O M A



CLIMATE DIVISIONS (CD)

- 1 - Panhandle
- 2 - North Central
- 3 - Northeast
- 4 - West Central
- 5 - Central
- 6 - East Central
- 7 - Southwest
- 8 - South Central
- 9 - Southeast

EXPLANATION OF TABLES

Two kinds of tables appear in this summary. The first is a set of tables containing all reporting stations grouped by climate division. The figure above shows the locations of the climate divisions. Each table contains the following information for each station:

Station Name:

Station Identification Number: These are usually assigned by the National Climatic Data Center.

Climate Division: See the figure above.

Number of Temperature Observations: These are the actual number of temperature reports recorded at the station during the current month. Missing observations may result in artificially high or low mean monthly temperatures.

Deviation from Normal: The deviation of the observed mean monthly temperature from the monthly station normal. A positive value indicates the month was warmer than normal. A negative value indicates the month was cooler than normal. Normal monthly temperatures may be calculated by subtracting the deviation from the observed temperature.

Maximum Daily Maximum: The maximum daily maximum temperature observed during the current month and year and the day which it occurred.

Minimum Daily Minimum: The minimum daily minimum temperature observed during the current month and year and the day which it occurred.

Heating Degree Days: HDD are calculated each day of the month for which there is a temperature report and summed. They are a qualitative measure of how much heat was required to maintain a comfortable indoor temperature. Missing observations may result in an artificially high or low value. For February 1984 HDD would be calculated as:

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

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

April 1993

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
67.7 max 44.3 min .04 ppt 1 hdd 1 cdd	92-1946 45-1998 26-1899 58-1946 2,87-1905	69.6 max 45.5 min .07 ppt 8 hdd 1 cdd	88-1918 43-1975 20-1936 67-1946 99-1922	68.3 max 44.3 min .09 ppt 9 hdd 1 cdd	92-1893 43-1975 21-1979 66-1934 1,37-1919	66.2 max 42.6 min .02 ppt 11 hdd 1 cdd	93-1893 38-1920 22-1891 56-1929 2,06-1906	67.0 max 42.2 min .14 ppt 11 hdd 1 cdd	94-1893 43-1899 26-1970 65-1978 3,39-1953	71.5 max 44.6 min .01 ppt 9 hdd 2 cdd	95-1893 41-1899 26-1936 68-1967 1,24-1940	70.6 max 46.4 min .05 ppt 7 hdd 1 cdd	94-1893 38-1938 27-1938 68-1893 1,76-1942
Highest Max Lowest Max Lowest Min Highest Min Greatest ppt		Highest Max Lowest Max Lowest Min Highest Min Greatest ppt		Highest Max Lowest Max Lowest Min Highest Min Greatest ppt		Highest Max Lowest Max Lowest Min Highest Min Greatest ppt		Highest Max Lowest Max Lowest Min Highest Min Greatest ppt		Highest Max Lowest Max Lowest Min Highest Min Greatest ppt		Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	
Normal 8	Actual	Normal 9	Actual	Normal 10	Actual	Normal 11	Actual	Normal 12	Actual	Normal 13	Actual	Normal 14	Actual
68.6 max 47.3 min .09 ppt 8 hdd 1 cdd	88-1905 36-1928 28-1908 63-1894 2,89-1922	68.1 max 45.0 min .06 ppt 9 hdd 1 cdd	90-1930 44-1973 25-1914 65-1927 2,91-1944	68.1 max 45.8 min .09 ppt 9 hdd 1 cdd	91-1934 45-1958 28-1973 66-1955 1,40-1978	69.5 max 46.5 min .04 ppt 11 hdd 1 cdd	90-1972 47-1952 29-1940 66-1972 1,10-1974	69.3 max 46.9 min .09 ppt 8 hdd 1 cdd	100-1972 35-1957 23-1940 70-1972 3,11-1967	68.8 max 46.1 min .10 ppt 9 hdd 1 cdd	94-1972 43-1957 20-1957 65-1941 3,75-1910	71.1 max 46.2 min .08 ppt 8 hdd 1 cdd	92-1936 46-1928 27-1980 68-1972 1,27-1947
Highest Max Lowest Max Lowest Min Highest Min Greatest ppt		Highest Max Lowest Max Lowest Min Highest Min Greatest ppt		Highest Max Lowest Max Lowest Min Highest Min Greatest ppt		Highest Max Lowest Max Lowest Min Highest Min Greatest ppt		Highest Max Lowest Max Lowest Min Highest Min Greatest ppt		Highest Max Lowest Max Lowest Min Highest Min Greatest ppt		Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	
Normal 15	Actual	Normal 16	Actual	Normal 17	Actual	Normal 18	Actual	Normal 19	Actual	Normal 20	Actual	Normal 21	Actual
71.8 max 47.9 min .05 ppt 6 hdd 1 cdd	90-1940 51-1902 30-1928 66-1982 1,67-1947	73.8 max 49.4 min .10 ppt 5 hdd 2 cdd	92-1940 49-1905 31-1921 67-1996 1,08-1970	74.2 max 51.2 min .09 ppt 4 hdd 2 cdd	96-1925 47-1905 30-1953 67-1963 1,40-1908	73.1 max 51.9 min .11 ppt 5 hdd 2 cdd	96-1925 47-1953 30-1953 66-1964 2,87-1942	73.6 max 51.8 min .16 ppt 4 hdd 2 cdd	94-1987 50-1918 33-1953 68-1948 2,92-1919	73.3 max 51.7 min .16 ppt 5 hdd 2 cdd	91-1961 43-1918 33-1966 69-1985 2,07-1937	74.8 max 51.9 min .03 ppt 4 hdd 2 cdd	90-1965 45-1959 34-1966 70-1961 79-1899
Highest Max Lowest Max Lowest Min Highest Min Greatest ppt		Highest Max Lowest Max Lowest Min Highest Min Greatest ppt		Highest Max Lowest Max Lowest Min Highest Min Greatest ppt		Highest Max Lowest Max Lowest Min Highest Min Greatest ppt		Highest Max Lowest Max Lowest Min Highest Min Greatest ppt		Highest Max Lowest Max Lowest Min Highest Min Greatest ppt		Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	
Normal 22	Actual	Normal 23	Actual	Normal 24	Actual	Normal 25	Actual	Normal 26	Actual	Normal 27	Actual	Normal 28	Actual
75.6 max 52.8 min .14 ppt 4 hdd 3 cdd	95-1955 45-1909 34-1959 69-1961 1,98-1915	75.0 max 52.9 min .08 ppt 4 hdd 3 cdd	99-1989 52-1931 33-1909 70-1989 96-1945	75.7 max 51.9 min .08 ppt 4 hdd 2 cdd	99-1901 52-1947 37-1910 68-1989 1,67-1948	73.9 max 52.6 min .10 ppt 4 hdd 2 cdd	91-1959 51-1919 35-1910 66-1893 2,64-1915	74.0 max 52.9 min .09 ppt 4 hdd 2 cdd	92-1996 50-1919 35-1920 68-1975 1,50-1963	74.8 max 51.3 min .11 ppt 4 hdd 3 cdd	91-1959 57-1979 35-1907 69-1970 1,57-1897	73.2 max 52.2 min .11 ppt 4 hdd 2 cdd	93-1902 50-1922 37-1979 70-1970 1,97-1960
Highest Max Lowest Max Lowest Min Highest Min Greatest ppt		Highest Max Lowest Max Lowest Min Highest Min Greatest ppt		Highest Max Lowest Max Lowest Min Highest Min Greatest ppt		Highest Max Lowest Max Lowest Min Highest Min Greatest ppt		Highest Max Lowest Max Lowest Min Highest Min Greatest ppt		Highest Max Lowest Max Lowest Min Highest Min Greatest ppt		Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	
Normal 29	Actual	Normal 30	Actual	APRIL AVERAGES									
75.0 max 52.7 min .22 ppt 3 hdd 2 cdd	92-1936 52-1908 34-1908 68-1923 2,87-1974	74.2 max 53.3 min .19 ppt 4 hdd 2 cdd	93-1948 50-1907 32-1907 68-1936 2,13-1970	TEMPERATURE : 60.2°F									
Highest Max Lowest Max Lowest Min Highest Min Greatest ppt		Highest Max Lowest Max Lowest Min Highest Min Greatest ppt		PRECIPITATION : 2.79"									
				HEATING DEGREE DAYS : 192									
				COOLING DEGREE DAYS : 49									

TULSA CLIMATE CALENDAR

April 1993

The data on this calendar are for Tulsa. Normal values are calculated for the period 1948-1992. Temperature extremes are for the period 1905-1992; precipitation extremes are for the period 1948-1992.

Normal 1	Actual	Normal 2	Actual	Normal 3	Actual	Normal 4	Actual	Normal 5	Actual	Normal 6	Actual	Normal 7	Actual						
68.0 max 46.0 min .07 ppt 9 hdd 1 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	84-1946 37-1970 28-1972 66-1967 1-60-1988	69.0 max 46.0 min .12 ppt 8 hdd 1 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	89-1919 41-1949 22-1936 65-1978 83-1956	69.0 max 45.0 min .13 ppt 8 hdd 1 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	88-1965 46-1979 23-1975 69-1981 1-25-1978	67.0 max 44.0 min .08 ppt 11 hdd 2 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	90-1943 46-1970 27-1972 60-1965 4-40-1964	67.0 max 43.0 min .08 ppt 11 hdd 1 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	87-1967 47-1983 22-1920 65-1967 1-42-1953	71.0 max 46.0 min .00 ppt 8 hdd 2 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	92-1960 50-1982 29-1936 65-1967 08-1986	73.0 max 46.0 min .05 ppt 7 hdd 1 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	88-1949 52-1983 28-1939 67-1986 1-47-1975						
Normal 8	Actual	Normal 9	Actual	Normal 10	Actual	Normal 11	Actual	Normal 12	Actual	Normal 13	Actual	Normal 14	Actual						
70.0 max 47.0 min .05 ppt 8 hdd 1 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	88-1965 47-1983 29-1938 63-1978 71-1961	69.0 max 45.0 min .09 ppt 9 hdd 1 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	90-1930 43-1973 24-1914 64-1978 1-25-1949	69.0 max 46.0 min .15 ppt 8 hdd 1 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	92-1927 47-1956 31-1973 65-1981 1-70-1979	70.0 max 48.0 min .08 ppt 7 hdd 1 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	93-1972 49-1951 30-1940 68-1972 1-10-1992	70.0 max 49.0 min .10 ppt 7 hdd 2 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	102-1972 36-1957 26-1957 68-1981 1-72-1967	69.0 max 47.0 min .15 ppt 8 hdd 1 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	96-1936 45-1957 22-1957 69-1972 1-33-1955	71.0 max 48.0 min .07 ppt 7 hdd 1 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	94-1936 54-1987 31-1957 67-1972 1-50-1965						
Normal 15	Actual	Normal 16	Actual	Normal 17	Actual	Normal 18	Actual	Normal 19	Actual	Normal 20	Actual	Normal 21	Actual						
72.0 max 48.0 min .11 ppt 6 hdd 1 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	93-1936 55-1962 27-1928 68-1982 2-48-1973	75.0 max 50.0 min .08 ppt 5 hdd 2 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	93-1982 55-1961 31-1953 72-1963 1-38-1968	74.0 max 52.0 min .17 ppt 4 hdd 2 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	92-1987 57-1990 28-1921 70-1963 1-75-1953	73.0 max 53.0 min .16 ppt 4 hdd 2 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	98-1925 48-1953 29-1953 70-1963 1-40-1970	74.0 max 53.0 min .23 ppt 5 hdd 3 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	94-1987 45-1983 34-1953 70-1964 2-23-1976	74.0 max 53.0 min .24 ppt 4 hdd 2 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	92-1963 54-1966 32-1963 71-1964 2-51-1976	76.0 max 53.0 min .13 ppt 4 hdd 3 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	94-1965 50-1959 32-1966 71-1961 1-57-1958						
Normal 22	Actual	Normal 23	Actual	Normal 24	Actual	Normal 25	Actual	Normal 26	Actual	Normal 27	Actual	Normal 28	Actual						
76.0 max 53.0 min .16 ppt 3 hdd 3 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	91-1965 52-1984 32-1931 59-1961 1-39-1985	76.0 max 54.0 min .11 ppt 3 hdd 3 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	93-1958 57-1956 36-1909 69-1989 3-22-1953	76.0 max 53.0 min .08 ppt 3 hdd 3 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	91-1975 58-1963 37-1909 71-1969 98-1973	75.0 max 54.0 min .11 ppt 3 hdd 3 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	89-1939 57-1967 36-1910 68-1984 1-14-1980	75.0 max 54.0 min .09 ppt 3 hdd 3 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	91-1987 55-1980 35-1910 70-1975 7-5-1990	76.0 max 54.0 min .13 ppt 3 hdd 3 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	92-1966 61-1979 36-1920 70-1989 1-85-1985	74.0 max 53.0 min .12 ppt 3 hdd 2 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	88-1970 53-1992 37-1965 71-1970 1-45-1960						
Normal 29	Actual	Normal 30	Actual	APRIL AVERAGES															
76.0 max 54.0 min .11 ppt 3 hdd 2 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	92-1987 57-1971 38-1968 65-1985 70-1974	75.0 max 55.0 min .33 ppt 3 hdd 3 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	91-1987 56-1950 35-1908 69-1987 3-00-1970	TEMPERATURE : 61.0°F															
										PRECIPITATION : 3.63"									
										HEATING DEGREE DAYS : 174									
										COOLING DEGREE DAYS : 56									