

# OKLAHOMA MONTHLY SUMMARY OCTOBER 1992

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## MONTHLY SUMMARY FOR OCTOBER 1992

Mild, dry autumn weather prevailed throughout Oklahoma during October. By month's end, a shortage of soil moisture was being felt in western Oklahoma, which also had received little rainfall in September. Precipitation for the month averaged 0.76 inch, statewide.

The scanty precipitation was 2.31 inches below normal for the month, making this the 11th driest October since 1892. The statewide precipitation for the year through the end of October is 32.19 inches, exceeding the 30-year normal by 2.04 inches. Temperatures for the month averaged 62.8 degrees, seven-tenths of a degree above normal. The average temperature for the year, thus far, is 63.6 degrees, one-tenth of a degree above the long term average.

Dry conditions were felt everywhere, but rainfall was particularly sparse in the west. The southwestern and west central climate divisions (CDs) each received less than 10% of normal October precipitation. The north central and northeastern CDs fared somewhat better, each receiving approximately 40% of normal precipitation for the month. Percent of normal values for the other five CDs ranged from 12% in the southeast to 37% in the central.

Bokchito reported 1.96 inches of rain on October 2nd, the only precipitation reported in the state during the first five days of the month. A cold front with strong support in the upper atmosphere crossed the state on the 7th, producing traces of sleet and snow in the Panhandle and heavy thunderstorms in central and eastern Oklahoma. Thunderstorm related winds in excess of 60 miles per hour were reported at several locations. A small tornado in eastern Canadian County destroyed six mobile homes in southwest Oklahoma City, injuring two. Several other mobile homes were damaged there and in Mustang. In eastern Oklahoma, high waves on Robert S. Kerr Reservoir sank a tugboat and two of the eight barges it was towing.

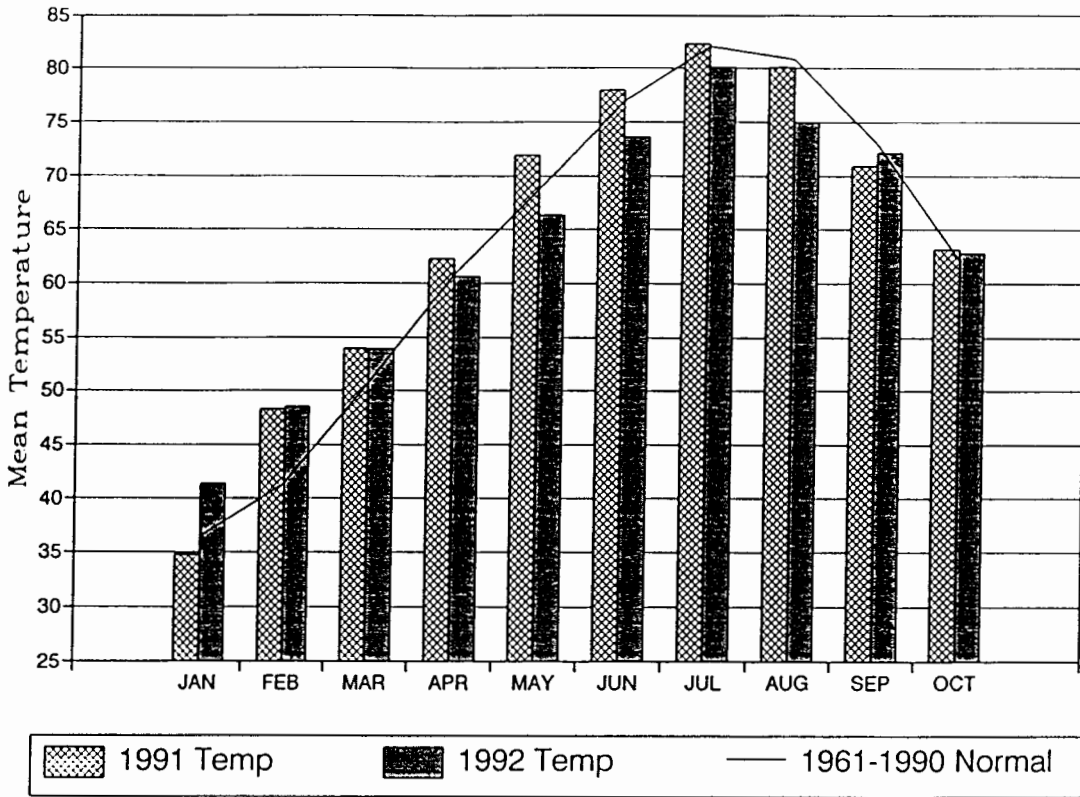
Carnegie and Hooker each reported a low temperature of 30 degrees on the 8th, the first freezing temperatures observed in the state this autumn. The cold air moderated fairly rapidly under sunny skies which prevailed over the next several days. Buffalo reported the state's high temperature for the month, 99 degrees, on the 13th. Strong winds exacerbated the drying trend and Oklahoma City instituted a ban on outside burning.

Large hail was reported on the 15th in several counties in south central Oklahoma. The hail-producing thunderstorms developed ahead of a cold front that brought little precipitation but did lead to the month's lowest reported temperatures, 24 degrees at Gage on the 17th and at Freedom on the 17th and 18th.

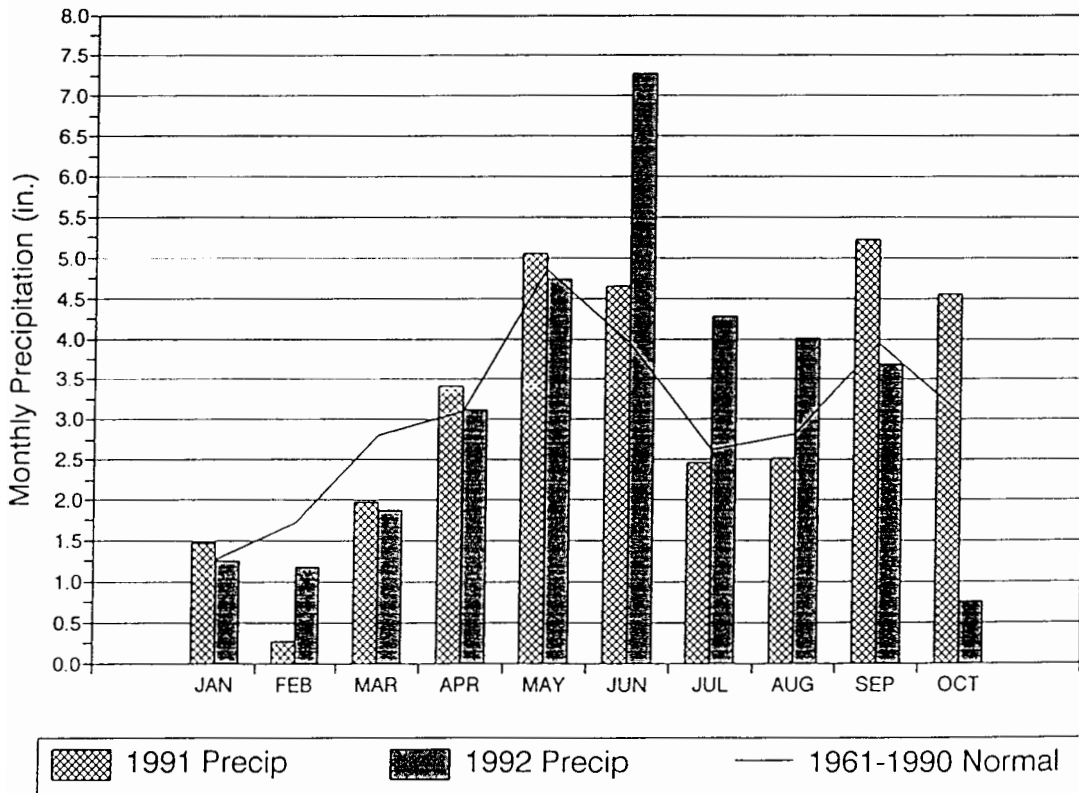
Another cold front crossed the state on the 24th and early on the 25th. Precipitation, generally less than one-half inch, was reported in the eastern half of the state. A stronger system entered the state on the 28th, stalled in its southern movement and affected the state's weather through the end of the month. Several locations reported over one inch of rain on the 28th, 29th and 31st. Power lines were knocked down in Canadian County on the 28th. Large hail and damaging winds were reported in eastern Oklahoma on the afternoon of the 31st. The roof of a school in Quinton was damaged by 65 mile per hour winds. Later on Halloween night, winds of up to 63 miles per hour were reported with a line of thunderstorms that passed through the Oklahoma City metropolitan area. Thunderstorms were accompanied by strong winds over many areas in eastern and southern Oklahoma, including thunderstorm winds of 70 miles per hour reported at Wagoner.

Howard L. Johnson

### 1991 and 1992 STATEWIDE TEMPERATURES January Through October Averages

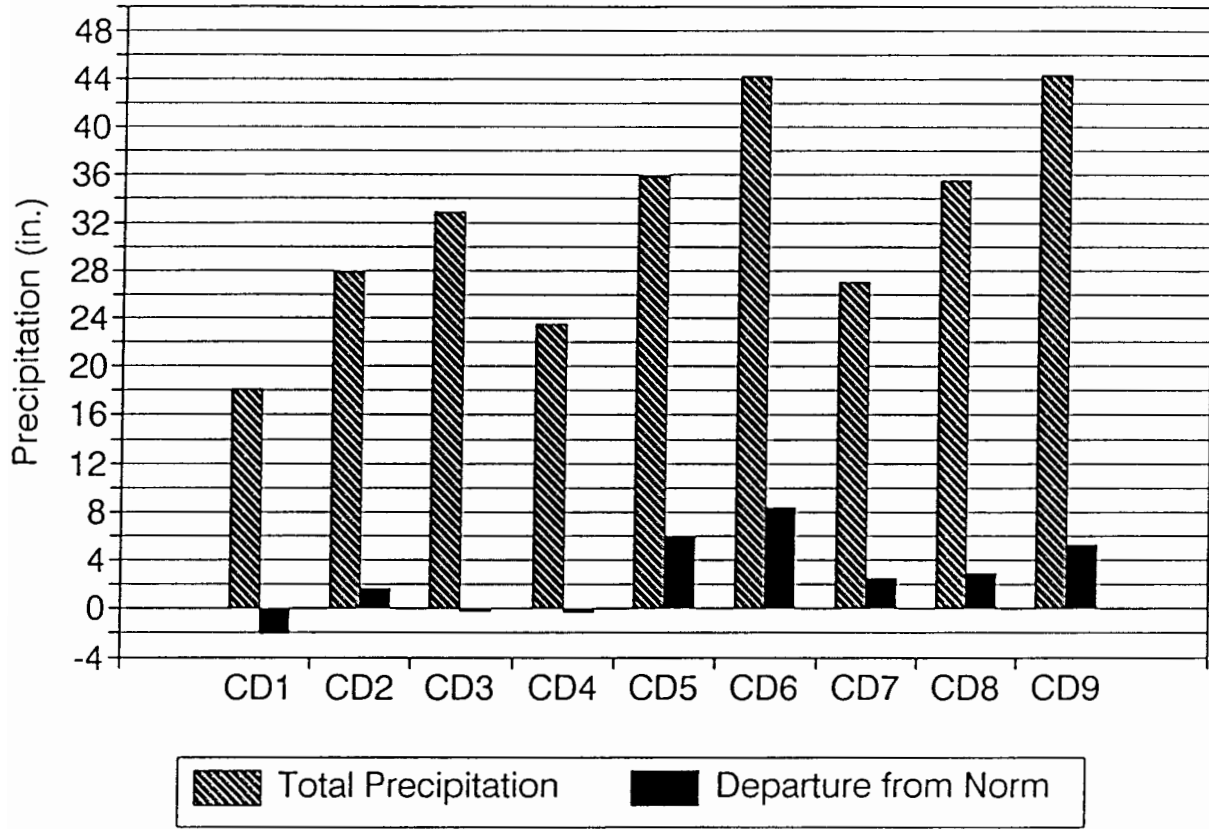


### 1991 and 1992 STATEWIDE PRECIPITATION January Through October Totals

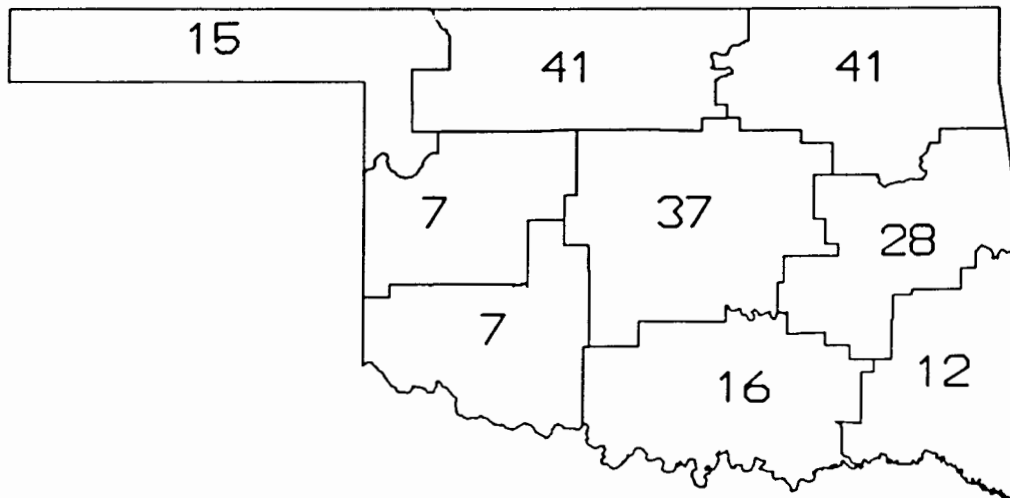


# CD Averaged Precipitation

## January Through October 1992



OCTOBER 1992 CLIMATE DIVISION PERCENT OF NORMAL PRECIPITATION



EXTREME VALUES OF TEMPERATURE AND PRECIPITATION IN EACH CLIMATE DIVISION  
OCTOBER, 1992

CD	MAX			MIN			24-HOUR			MONTHLY	
	TEMP	DATE	LOCATION	TEMP	DATE	LOCATION	PRECIP	DATE	LOCATION	PRECIP	LOCATION
1	99	13	BUFFALO	24	17	GAGE	.54	8	ARNETT	.77	ARNETT
2	96	14	FREEDOM	24	17	FREEDOM	1.00	7	CHEROKEE	1.88	BLACKWELL
				24	18	FREEDOM					
3	90	13	BARTLESVILLE	30	10	UPPR SPAVINAW	1.29	29	CLEVELAND	2.30	KEYSTONE DAM
	90	14	BIXBY								
	90	13	CLEVELAND								
	90	14	HULAH DAM								
	90	14	MANNFORD								
4	93	13	REYDON	28	17	HAMMON	1.09	29	WATONGA	1.13	WATONGA
				28	18	HAMMON					
				28	17	REYDON					
5	92	13	SEMINOLE	34	17	KINGFISHER	1.71	29	PERKINS	2.88	OILTON
	92	14	SEMINOLE								
6	89	13	HOLDENVILLE	35	9	HANNA	1.16	29	BOYNTON	1.89	CALVIN
	89	13	MCALESTER								
	89	26	MCALESTER								
	89	14	WEBBERS FALLS								
7	93	13	ALTUS	30	8	CARNEGIE	1.06	28	DUNCAN 12 W	1.10	DUNCAN 12 W
	93	13	CHATTANOOGA								
	93	13	HOLLIS								
8	92	15	WAURIKA	36	8	MARLOW	1.96	2	BOKCHITO	2.53	BOKCHITO
				36	18	MARLOW					
9	89	26	ANTLERS	35	9	ANTLERS	.85	16	HEAVENER	1.17	WILBURTON
	89	12	BOSWELL								
	89	26	BOSWELL								

TABLE OF 1991/1992 COMPARISONS

Station	October Temperature (F)		October Precipitation (in.)	
	1991	1992	1991	1992
Arnett	58.7	59.9	1.41	.77
Enid	63.1	61.7	.57	.76
Mutual	59.6	60.4	1.66	.12
Tulsa	65.2	61.4	4.54	.69
Elk City	61.2	62.3	2.11	T
Oklahoma City	62.6	62.3	3.98	1.12
McAlester	65.2	66.2	10.05	.64
Altus Irr Sta	62.6	65.5	2.73	.01
Durant	65.6	64.4	9.03	.39
Ada	63.4	64.2	4.69	.59
Antlers	64.6	64.7	15.53	.12

EXTREMES

Variable	Station	Division	Observation	Date
Minimum temperature (F)	Gage	1	24	17
	Freedom	2	24	18
Maximum temperature (F)	Buffalo	1	99	13
Maximum 24-hour precipitation	Bokchito	8	1.96"	2

**OCTOBER 1992 SUMMARY FOR NORTHWEST DIVISION (CD1)**

NAME	ID	CD	DEV					HEAT		DEV		COOL		DEV		TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
			MEAN TEMP	NUM OBS	FROM NORM	MAX TEMP	MIN DAY	DAY TEMP	DEG DAY	FROM NORM	DEG DAY	FROM NORM	DEG DAY	FROM NORM	DEG DAY					
ARNETT	332	1	59.9	31	1.1	90.	14	31.	17	196.0	-27.0	36.5	5.5	.771	31	-1.06	.54	8		
BEAVER	593	1	58.9	31	1.3	94.	14	29.	17	239.0	-8.0	51.0	34.0	.191	31	-1.00	.19	8		
BOISE CITY 2 E	908	1	59.4	31	2.2	92.	1	26.	8	187.0	-67.0	14.0	1.0	.021	31	-.84	.02	7		
BUFFALO	1243	1	62.9	31	1.3	99.	13	26.	17	151.0	-5.0	87.0	36.0	.200	31	-1.74	.15	7		
FARGO	3070	1	****	0	****	****	0	****	0	****	****	****	****	.101	31	-1.54	.08	8		
GAGE FAA APT	3407	1	61.6	31	1.2	94.	13	24.	17	165.5	-19.5	61.5	19.5	.134	31	-1.43	.11	8		
GATE	3489	1	66.3	15	****	92.	14	38.	9	42.5	****	61.5	****	.203	31	-1.21	.20	8		
GOODWELL RES ST	3628	1	58.1	31	1.3	91.	14	31.	20	230.0	-38.0	15.5	1.5	.063	31	-.90	.06	8		
GUYMON	3835	1	60.2	25	****	92.	13	32.	15	151.5	****	32.5	****	.013	29	****	.01	29		
HOOVER	4298	1	58.8	31	.6	92.	14	30.	9	226.5	-13.5	35.0	6.0	.063	31	-.88	.06	8		
LAVERNE	5045	1	****	0	****	****	0	****	0	****	****	****	****	.133	31	-1.28	.12	8		
OPTIMA LAKE	6740	1	58.6	31	****	92.	14	31.	17	226.0	****	28.5	****	.092	31	****	.09	8		
TURPIN 4 SSE	9017	1	58.4	31	****	93.	14	31.	8	237.0	****	31.0	****	.161	31	****	.14	8		

**OCTOBER 1992 SUMMARY FOR NORTH CENTRAL DIVISION (CD2)**

NAME	ID	CD	DEV					HEAT		DEV		COOL		DEV		TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
			MEAN TEMP	NUM OBS	FROM NORM	MAX TEMP	MIN DAY	DAY TEMP	DEG DAY	FROM NORM	DEG DAY	FROM NORM	DEG DAY	FROM NORM	DEG DAY					
ALVA	193	2	62.2	31	****	94.	13	32.	17	151.5	****	65.5	****	.830	31	****	.75	8		
VANCE AFB	302	2	****	0	****	****	0	****	0	****	****	****	****	.831	30	****	.66	29		
BILLINGS	755	2	60.5	31	-.4	90.	14	34.	17	170.5	3.5	32.0	-8.0	1.252	31	-1.48	.77	29		
BLACKWELL 2E	818	2	61.8	30	.6	90.	13	34.	17	146.5	-9.5	51.5	12.5	1.881	31	-.82	.80	29		
BRAMAN	1075	2	****	0	****	****	0	****	0	****	****	****	****	1.310	31	****	.91	8		
CEDARDALE	1620	2	****	0	****	****	0	****	0	****	****	****	****	.101	31	****	.03	29		
CHEROKEE	1724	2	62.7	28	****	92.	13	35.	17	130.5	****	66.0	****	1.000	28	****	1.00	7		
ENID	2912	2	61.7	31	-.7	89.	14	36.	17	151.0	14.0	50.0	-6.0	.760	31	-2.35	.55	29		
FT SUPPLY DAM	3304	2	60.4	31	1.5	90.	14	31.	17	199.5	-11.5	56.0	34.0	.172	31	-1.37	.14	8		
FREEDOM	3358	2	57.6	31	-3.4	96.	14	24.	18	253.0	92.0	23.5	-13.5	.211	31	-1.65	.18	8		
GREAT SALT PLNS	3740	2	61.2	31	.6	93.	14	34.	17	164.5	-12.5	48.0	7.0	.770	31	-1.29	.63	8		
HARDY	3909	2	****	0	****	****	0	****	0	****	****	****	****	1.603	31	****	.70	24		
HELENA 1 SSE	4019	2	60.6	31	.8	90.	14	34.	17	181.5	-11.5	45.5	14.5	1.001	31	-1.09	.81	29		
JEFFERSON	4573	2	61.7	31	-.3	93.	13	32.	17	150.5	8.5	49.5	.5	.891	31	-1.76	.60	7		
LAMONT	5013	2	****	0	****	****	0	****	0	****	****	****	****	1.171	31	****	.54	8		
MEDFORD	5768	2	****	0	****	****	0	****	0	****	****	****	****	.822	31	****	.58	7		
MORRISON	6065	2	****	0	****	****	0	****	0	****	****	****	****	1.431	31	****	.84	29		
MUTUAL	6139	2	60.4	31	1.0	92.	14	28.	18	195.5	-7.5	52.5	23.5	.120	31	-1.56	.09	8		
NEWKIRK	6278	2	62.6	30	1.0	89.	13	35.	17	130.5	-16.5	59.5	18.5	1.700	31	-1.53	.73	7		
ORIENTA	6751	2	****	0	****	****	0	****	0	****	****	****	****	.750	31	-1.13	.68	7		
PERRY	7012	2	63.9	27	****	89.	13	37.	17	93.5	****	62.5	****	1.110	27	****	.72	29		
PONCA CITY FAA	7201	2	63.4	31	2.7	90.	13	37.	17	124.0	-47.0	75.0	37.0	1.522	31	-1.40	.69	8		
RED ROCK 1 NNE	7505	2	****	0	****	****	0	****	0	****	****	****	****	1.530	31	-1.26	.89	29		
WAYNOKA	9404	2	61.4	31	-.3	92.	13	30.	17	168.5	3.5	56.5	-6.5	.860	31	-.89	.62	8		
WOODWARD	9760	2	****	0	****	****	0	****	0	****	****	****	****	.040	31	-1.83	.03	27		

OCTOBER 1992 SUMMARY FOR NORTHEAST DIVISION (CD3)

NAME	ID	CD	DEV					HEAT		DEV		COOL		DEV		TOT	NUM	DEV	FROM	MAX	DAY
			MEAN	NUM	FROM	MAX	MIN	DEG	FROM	DEG	FROM	DEG	FROM	DEG	FROM						
BARNSDALL	535	3	60.3	31	-1.1	88.	13	32.	9	172.0	13.0	25.5	-24.5	1.714	31	-1.48	.82	29			
BARTLESVILLE 2W	548	3	61.2	31	-.4	90.	13	32.	9	146.0	-4.0	28.0	-17.0	1.315	31	-1.99	.60	8			
BIXBY	782	3	59.7	30	-.8	90.	14	34.	10	172.5	-4.5	14.0	-24.0	.880	30	*****	.32	8			
BURBANK	1256	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.711	31	-1.38	.91	29			
CHELSEA 4 S	1717	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.280	31	*****	.80	29			
CLAREMORE	1828	3	59.9	31	-.5	88.	14	34.	9	177.5	-3.5	19.5	-19.5	1.770	31	-1.79	1.08	29			
CLEVELAND 5 WSW	1902	3	63.2	29	*****	90.	13	37.	9	102.5	*****	51.0	*****	1.930	29	*****	1.29	29			
FORAKER	3250	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.741	30	*****	.62	29			
HOLLOW	4258	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.211	31	-2.42	.32	8			
HOMINY	4289	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.921	31	-1.04	1.08	29			
HULAH DAM	4393	3	60.3	22	*****	90.	14	32.	9	115.5	*****	11.5	*****	1.880	29	*****	.78	29			
JAY TOWER	4567	3	60.6	31	*****	86.	14	36.	17	158.5	*****	21.5	*****	.970	31	*****	.48	29			
KANSAS 1 ESE	4672	3	61.9	31	.5	84.	13	37.	9	122.5	-40.5	25.5	-25.5	1.820	31	-2.32	.80	29			
KEYSTONE DAM	4812	3	59.5	27	*****	88.	14	33.	9	165.0	*****	15.5	*****	2.302	30	*****	1.26	29			
LENAPAH	5118	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.030	31	*****	.40	8			
MANNFORD 6 NW	5522	3	62.0	30	-.1	90.	14	35.	9	131.0	-13.0	41.5	-12.5	2.130	31	-.95	1.16	29			
MARAMEC	5540	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.040	31	-.98	1.42	29			
MIAMI	5855	3	59.2	31	-.7	83.	15	37.	11	191.0	-6.0	11.0	-28.0	1.603	31	-2.13	.75	8			
NOWATA	6485	3	60.8	31	-.5	88.	13	35.	17	159.0	-1.0	29.0	-16.0	1.153	31	-2.19	.57	29			
ONETA 1 WNW	6713	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.690	31	*****	1.06	29			
PAWHUSKA	6935	3	60.7	31	-.5	89.	14	32.	9	164.5	7.5	31.5	-7.5	2.280	31	-.92	1.09	29			
PAWNEE	6940	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.810	31	-1.02	1.00	29			
PRYOR 6 N	7309	3	58.3	30	-1.8	86.	14	33.	9	206.0	13.0	3.5	-34.5	1.422	31	-2.39	.63	29			
RALSTON	7390	3	61.9	31	.3	90.	13	33.	9	142.0	.0	46.0	9.0	1.482	31	-1.41	.68	29			
RAMONA 4 N	7394	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.261	31	*****	.80	29			
SKIATOOK	8258	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.710	31	-1.47	.99	29			
SPAVINAW	8380	3	64.3	31	1.2	85.	13	40.	9	77.5	-49.5	56.0	-12.0	1.254	31	-2.44	.58	29			
TULSA WSO APT	8992	3	61.4	31	-.8	89.	13	37.	9	144.0	.0	33.5	-23.5	.692	31	-2.97	.57	8			
UPPER SPAVINAW	9101	3	61.5	31	*****	82.	14	30.	10	122.5	*****	14.0	*****	1.523	31	*****	.70	8			
VINITA 2 N	9203	3	60.0	31	-.5	86.	13	34.	9	170.5	-6.5	16.5	-21.5	1.160	31	-2.68	.47	29			
WAGONER	9247	3	62.5	31	-.4	87.	13	40.	9	110.5	-25.5	32.5	-38.5	1.032	31	-3.09	.72	30			
WANN	9298	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.230	31	*****	.78	29			
WYONONA	9792	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.493	31	*****	.70	29			

OCTOBER 1992 SUMMARY FOR WEST CENTRAL DIVISION (CD4)

NAME	ID	CD	DEV					HEAT		DEV		COOL		DEV		TOT	NUM	DEV	FROM	MAX	DAY
			MEAN	NUM	FROM	MAX	MIN	DEG	FROM	DEG	FROM	DEG	FROM	DEG							
CANTON DAM	1445	4	61.4	30	1.0	89.	14	33.	17	161.5	-16.5	54.5	18.5	.322	31	-1.70	.17	29			
CHEYENNE	1738	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.000	31	-2.08	.00	31			
CLINTON	1909	4	62.9	31	.4	90.	13	32.	18	103.0	-25.0	38.5	-12.5	.003	31	-2.82	.00	29			
COLONY	2039	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.230	31	*****	.23	28			
CORDELL	2125	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.002	31	-2.52	.00	29			
ELK CITY 1 E	2849	4	62.3	23	*****	89.	14	33.	7	98.0	*****	37.0	*****	.001	23	*****	.00	31			
ERICK 4 E	2944	4	62.6	31	1.1	92.	13	32.	17	117.0	-25.0	41.5	8.5	.000	31	-2.16	.00	31			
GEARY	3497	4	62.5	31	.8	88.	13	36.	17	124.0	-28.0	45.5	-3.5	.860	31	-1.38	.63	29			
HAMMON 1 NNE	3871	4	59.2	29	*****	91.	14	28.	18	191.5	*****	22.0	*****	.000	31	-1.98	.00	31			
MACKIE 4 NNW	5463	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.110	31	*****	.11	8			
MORAVIA 2 NNE	6035	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.060	31	-2.33	.06	8			
OKEENE	6629	4	62.4	31	-.4	90.	13	33.	17	126.5	1.5	44.5	-12.5	.550	31	-1.90	.34	29			
RETROP	7565	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.000	31	*****	.00	31			
REYDON	7579	4	63.7	28	*****	93.	13	28.	17	94.0	*****	58.5	*****	.040	31	-1.61	.04	7			
SAYRE	7952	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.000	31	-2.16	.00	31			
SWEETWATER 2 E	8652	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.000	31	*****	.00	31			
TALOGA	8708	4	60.9	31	.2	90.	13	29.	17	158.5	-4.5	32.0	3.0	.130	31	-1.87	.13	8			
THOMAS	8815	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.030	31	*****	.03	29			
VICI	9172	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.070	31	-1.89	.04	28			
WATONGA	9364	4	62.6	31	.9	89.	13	34.	17	129.0	-18.0	55.5	10.5	1.133	31	-1.25	1.09	29			
WEATHERFORD	9422	4	62.7	31	2.0	90.	14	35.	18	131.5	-35.5	61.0	27.0	.151	31	-2.54	.13	8			

OCTOBER 1992 SUMMARY FOR CENTRAL DIVISION (CD5)

Table with columns: NAME, ID, CD, MEAN TEMP, DEV NUM OBS, DEV FROM NORM, MAX TEMP, MIN DAY, HEAT DEG DAY, DEV FROM NORM, COOL DEG DAY, DEV FROM NORM, TOT PPT, DEV NUM OBS, DEV FROM NORM, MAX 24-HR, DAY. Lists 50 stations including AMBER, ARCADIA, TINKER AFB, etc.

OCTOBER 1992 SUMMARY FOR EAST CENTRAL DIVISION (CD6)

Table with columns: NAME, ID, CD, MEAN TEMP, DEV NUM OBS, DEV FROM NORM, MAX TEMP, MIN DAY, HEAT DEG DAY, DEV FROM NORM, COOL DEG DAY, DEV FROM NORM, TOT PPT, DEV NUM OBS, DEV FROM NORM, MAX 24-HR, DAY. Lists 50 stations including ASHLAND, BEGGS, BOYNTON, etc.



OCTOBER 1992 SUMMARY FOR SOUTHWEST DIVISION (CD7)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV		MIN DAY	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV		24-HR DAY	
					FROM NORM	MAX TEMP									FROM NORM	MAX		
ALTUS IRR STA	179	7	65.5	31	.9	93.	13	38.	8	59.0	-41.0	73.5	-14.5	.010	31	-2.36	.01	29
ALTUS DAM	184	7	62.1	31	-.4	86.	14	37.	8	139.5	7.5	51.0	-4.0	.000	31	-2.74	.00	31
ANADARKO	224	7	62.2	28	*****	89.	13	36.	18	107.5	*****	30.0	*****	.100	29	*****	.10	28
APACHE	260	7	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	.310	31	-2.50	.30	28
ALTUS AFB	447	7	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	.003	31	*****	.00	31
CARNEGIE 2 ENE	1504	7	63.2	31	.2	91.	14	30.	8	101.5	-16.5	44.5	-11.5	.460	31	-1.93	.46	29
CHATTANOOGA	1706	7	66.6	31	2.3	93.	13	41.	11	45.5	-46.5	96.5	25.5	.080	31	-2.64	.08	29
DUNCAN 12 W	2668	7	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	1.101	31	*****	1.06	28
FREDERICK	3353	7	64.2	31	.9	90.	14	39.	17	86.0	-39.0	61.5	-10.5	.000	31	-2.65	.00	31
GRANDFIELD 4 NW	3709	7	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	.000	31	-2.87	.00	31
HOBART FAA APT	4204	7	64.3	31	1.4	91.	13	37.	17	99.5	-27.5	77.5	15.5	.060	31	-2.59	.06	29
HOLLIS	4249	7	64.9	28	*****	93.	13	34.	9	50.0	*****	46.0	*****	.000	28	*****	.00	30
HOLLISTER	4250	7	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	.000	31	*****	.00	31
LAWTON	5063	7	64.2	31	1.6	90.	14	37.	8	81.5	-48.5	58.0	2.0	.960	31	-2.02	.96	29
FORT SILL	5068	7	64.8	31	*****	90.	13	39.	8	75.5	*****	69.5	*****	.462	31	*****	.46	28
LOOKEBA 2 ENE	5329	7	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	.060	31	-2.67	.03	29
MANGUM RES STA	5509	7	62.5	31	-1.3	92.	13	34.	9	101.0	-9.0	24.5	-48.5	.000	31	-2.66	.00	31
RANDLETT 9 E	7403	7	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	.000	31	*****	.00	31
ROOSEVELT	7727	7	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	.000	31	-2.56	.00	31
SEDAN	8016	7	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	.060	31	*****	.06	29
SNYDER	8299	7	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	.270	31	-2.26	.27	29
VINSON 3 WNW	9212	7	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	.020	31	-2.18	.02	20
WALTERS	9278	7	65.9	31	1.3	91.	13	41.	18	56.0	-47.0	85.0	-5.0	.060	31	-3.18	.03	31
WICHITA MT WLR	9629	7	61.7	31	.2	88.	14	38.	18	131.5	-22.5	28.5	-17.5	.050	31	-2.93	.04	29
WILLOW	9668	7	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	.080	31	*****	.08	29

OCTOBER 1992 SUMMARY FOR SOUTH CENTRAL DIVISION (CD8)

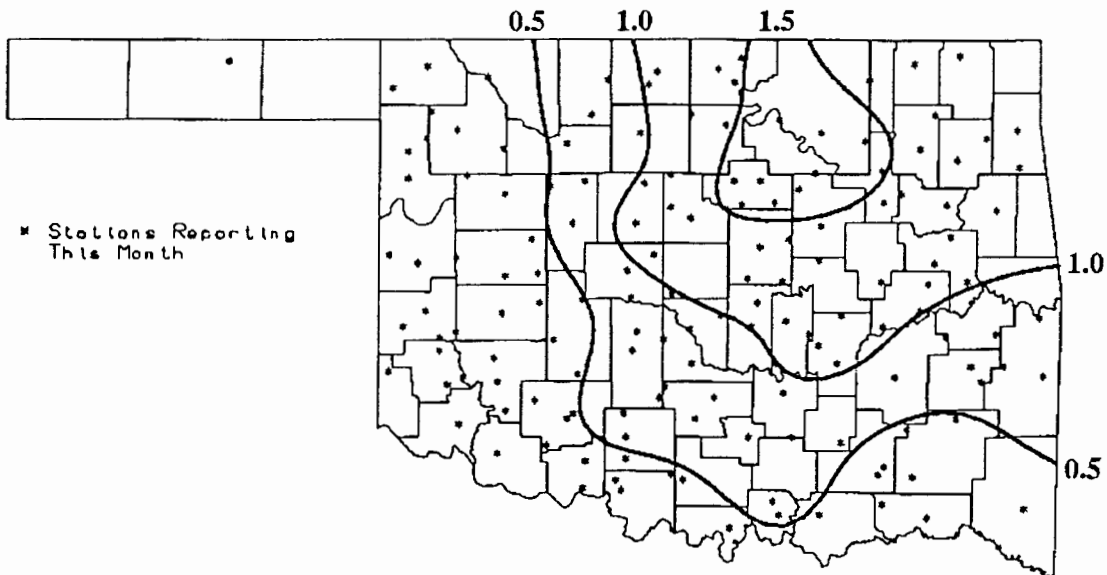
NAME	ID	CD	MEAN TEMP	NUM OBS	DEV		MIN DAY	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV		24-HR DAY	
					FROM NORM	MAX TEMP									FROM NORM	MAX		
ADA	17	8	64.2	31	.6	87.	13	40.	8	75.0	-53.0	51.5	-32.5	.590	31	-3.65	.25	29
ALLEN	147	8	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	.501	31	*****	.50	29
ARDMORE	292	8	67.2	27	*****	89.	28	45.	18	25.5	*****	86.0	*****	1.851	28	*****	1.50	7
ATOKA DAM	394	8	66.8	22	*****	90.	27	42.	9	34.0	*****	73.5	*****	.220	22	*****	.22	29
BOKCHITO	917	8	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	2.530	31	*****	1.96	2
CANEY	1437	8	66.5	30	*****	87.	13	45.	8	38.0	*****	84.0	*****	.271	31	*****	.27	29
CENTRAHOMA	1648	8	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	.350	31	*****	.25	29
CHICKASAW NRA	1745	8	65.0	31	2.6	89.	27	38.	10	76.5	-51.5	78.0	30.0	1.380	31	-3.14	.83	29
COLEMAN	2011	8	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	.560	31	*****	.55	29
COMANCHE	2054	8	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	.380	31	-2.79	.38	29
DAISY 4 ENE	2354	8	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	.241	31	-4.27	.17	29
DUNCAN	2660	8	64.6	31	1.4	88.	14	40.	8	81.0	-41.0	68.0	2.0	1.470	31	-1.89	1.24	29
DURANT USDA	2678	8	64.4	31	1.0	88.	14	40.	11	89.0	-27.0	71.0	5.0	.390	31	-3.79	.24	29
ELMORE CITY	2872	8	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	.380	31	*****	.23	26
FARRIS 3 WNW	3083	8	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	.280	31	-3.96	.11	29
GRADY	3688	8	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	.720	31	*****	.57	31
HEALDTON	4001	8	65.4	31	1.4	89.	31	39.	11	60.5	-41.5	74.0	3.0	.051	31	-3.53	.03	8
HENNEPIN	4052	8	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	.780	31	*****	.65	29
KETCHUM RANCH	4780	8	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	.860	31	*****	.76	28
KINGSTON	4865	8	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	.430	31	-3.84	.18	29
LEHIGH	5108	8	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	.302	31	*****	.20	29
LINDSAY 2 W	5216	8	62.7	31	-.7	88.	13	37.	18	102.5	-7.5	30.5	-29.5	.541	31	-3.11	.42	8
LOCO 6 SE	5247	8	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	.190	31	*****	.19	8
MADILL	5468	8	66.6	31	1.6	89.	31	41.	8	45.5	-43.5	96.5	7.5	1.220	31	-3.08	.67	30
MARIETTA	5563	8	67.1	31	1.9	90.	15	39.	8	44.5	-38.5	110.5	20.5	.240	31	-3.46	.17	29
MARLOW 1 WSW	5581	8	64.7	31	1.3	89.	13	36.	18	75.0	-43.0	67.0	-1.0	.820	31	-2.76	.50	8
MC GEE CREEK DAM	5713	8	63.4	31	*****	89.	14	37.	8	89.5	*****	41.0	*****	.103	31	*****	.10	29
PAULS VALLEY	6926	8	64.4	31	.4	88.	31	38.	18	77.0	-23.0	59.5	-9.5	.272	31	-3.66	.17	29
PONTOTOC	7214	8	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	1.090	31	-3.12	.69	31
TISHOMINGO NWLR	8884	8	66.7	22	*****	88.	26	39.	28	40.0	*****	76.5	*****	.340	22	*****	.26	29
TUSSY	9032	8	*****	0	*****	*****	0	*****	0	*****	*****	*****	*****	1.340	31	*****	1.19	29
WAURIKA	9395	8	67.3	30	2.2	92.	15	40.	8	35.0	-51.0	103.5	14.5	.001	31	-2.96	.00	30
WAURIKA DAM	9399	8	65.6	30	*****	91.	14	40.	8	61.5	*****	80.5	*****	.092	30	*****	.09	8

OCTOBER 1992 SUMMARY FOR SOUTHEAST DIVISION (CD9)

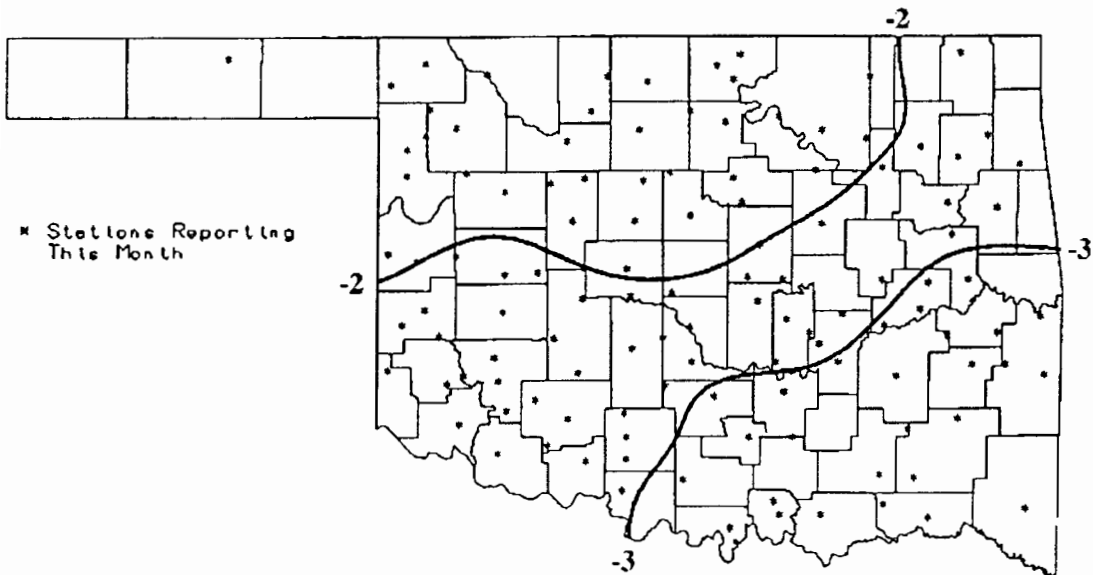
NAME	ID	CD	DEV					HEAT		DEV		COOL		DEV		TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
			MEAN TEMP	NUM OBS	FROM NORM	MAX TEMP	MIN DAY	DEG DAY	FROM NORM	DEG DAY	FROM NORM	DEG DAY	FROM NORM	DEG DAY						
ANTLERS	256	9	64.7	31	1.4	89.	26	35.	9	68.5	-51.5	58.0	-9.0	.120	31	-4.46	.12	26		
BATTIEST 1 SSW	567	9	59.6	31	*****	83.	26	33.	9	172.5	*****	4.0	*****	.311	31	*****	.20	27		
BEAR MT TWR	584	9	66.2	31	1.9	90.	27	39.	9	43.5	-65.5	82.0	-6.0	.230	31	-4.08	.07	30		
BENGAL	670	9	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	.350	31	*****	.30	27		
BOSWELL 4 NNW	980	9	65.4	31	1.6	89.	26	39.	11	61.5	-44.5	73.0	4.0	.313	31	-3.88	.12	29		
BROKEN BOW 1 N	1162	9	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	.310	31	-4.02	.20	27		
BROKEN BOW DAM	1168	9	64.6	31	2.0	89.	27	37.	10	68.5	-62.5	55.5	-1.5	.593	31	-3.73	.47	27		
CARNASAW TWR	1499	9	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	.630	31	-3.97	.39	27		
CARTER TWR	1544	9	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	.900	31	-4.16	.36	25		
FANSHAWE	3065	9	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	.530	31	-3.36	.32	27		
FLAGPOLE TWR	3169	9	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	.900	31	*****	.62	31		
HEAVENER 1 SE	4008	9	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	1.123	31	-2.95	.85	16		
HEE MT TWR	4017	9	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	.220	31	-4.98	.15	27		
HUGO	4384	9	65.7	31	.9	86.	26	41.	8	51.5	-40.5	73.5	-12.5	.392	31	-3.85	.14	8		
IDABEL	4451	9	63.8	31	.4	89.	27	36.	9	89.0	-26.0	51.5	-13.5	.611	31	-3.86	.31	27		
POTEAU	7246	9	61.8	31	-1.8	87.	14	37.	10	123.5	6.5	23.0	-50.0	.503	30	*****	.35	31		
SMITHVILLE 1 W	8285	9	61.9	22	*****	84.	26	34.	19	81.0	*****	12.5	*****	.004	23	*****	.00	31		
SPIRO	8416	9	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	.510	31	-3.31	.21	8		
TUSKAHOMA	9023	9	63.7	31	-.1	88.	26	38.	19	86.0	-22.0	45.5	-24.5	.220	31	-3.99	.12	27		
VALLIANT 3 W	9118	9	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	.370	31	-3.63	.13	21		
WILBURTON 9 ENE	9634	9	63.0	31	.7	88.	13	37.	9	97.0	-43.0	36.0	-21.0	1.172	31	-3.14	.46	31		

OCTOBER 1992 CLIMATE DIVISION SUMMARY

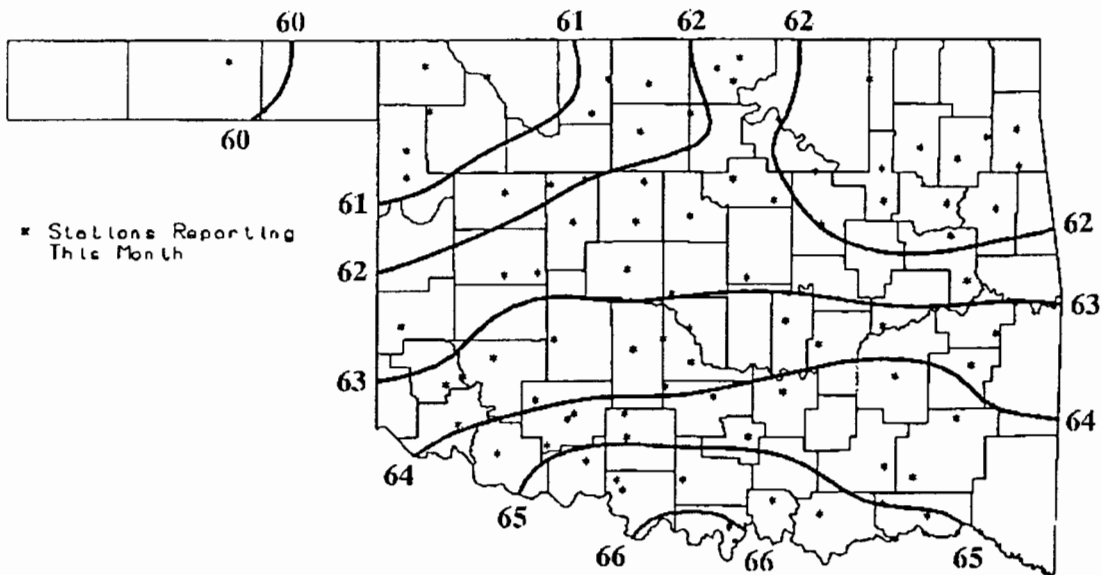
CLIMATE DIV	MEAN TEMP	NUM STA	DEV					HEAT DEGREE		DEV		COOL DEGREE		DEV		TOT PPT	NUM STA	DEV FROM NORM	MAX 24-HR	DAY
			FROM NORM	MAX TEMP	MIN DAY	DEG DAYS	FROM NORM	DEG DAYS	FROM NORM	DEG DAYS	FROM NORM	DEG DAYS								
1	59.6	9	.9	99.0	13	24.0	17	206.4	-15.8	40.0	11.9	.18	12	-1.20	.54	8				
2	61.2	13	.1	96.0	14	24.0	18	168.2	4.5	51.2	9.0	.94	22	-1.38	1.00	7				
3	61.0	17	-.2	90.0	13	30.0	10	151.0	-14.1	26.4	-19.6	1.49	28	-1.93	1.42	29				
4	62.3	8	.9	93.0	13	28.0	17	131.4	-23.2	46.6	4.8	.18	20	-2.03	1.09	29				
5	62.9	15	.2	92.0	14	34.0	9	110.5	-17.3	46.2	-11.0	1.18	36	-2.07	1.71	29				
6	62.8	11	.1	89.0	14	34.0	10	107.0	-26.4	39.0	-24.0	1.16	30	-2.96	1.37	29				
7	64.1	11	.8	93.0	13	30.0	8	88.8	-30.5	60.9	-4.3	.18	23	-2.49	1.06	28				
8	65.2	14	1.1	92.0	15	36.0	18	67.9	-37.5	72.5	-2.9	.63	29	-3.28	1.96	2				
9	63.8	10	.5	90.0	27	33.0	9	86.2	-33.6	50.2	-16.9	.52	19	-3.89	.85	16				



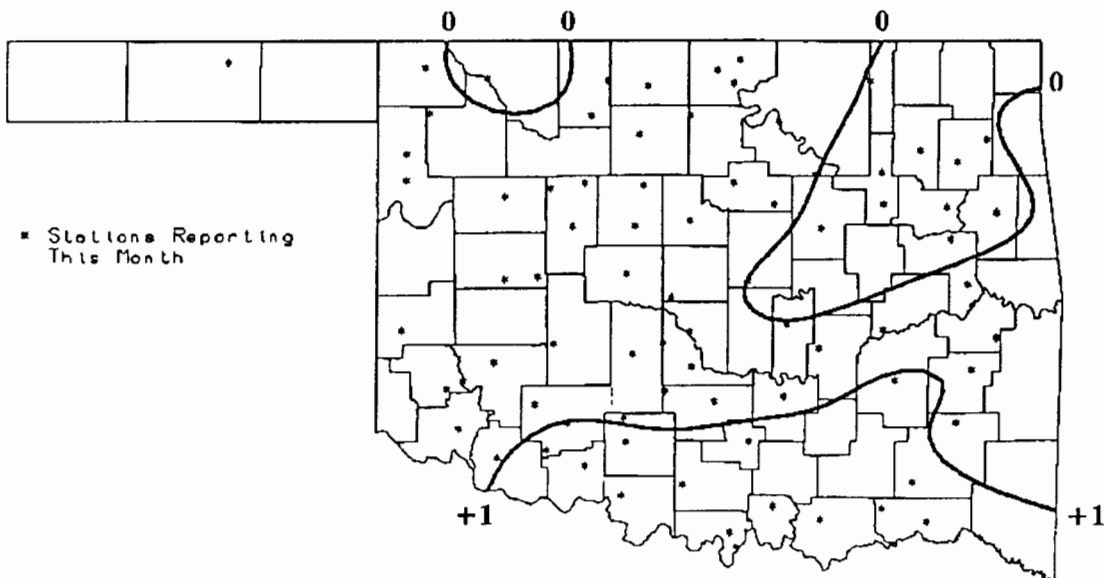
OCTOBER 1992 TOTAL PRECIPITATION  
(Inches)



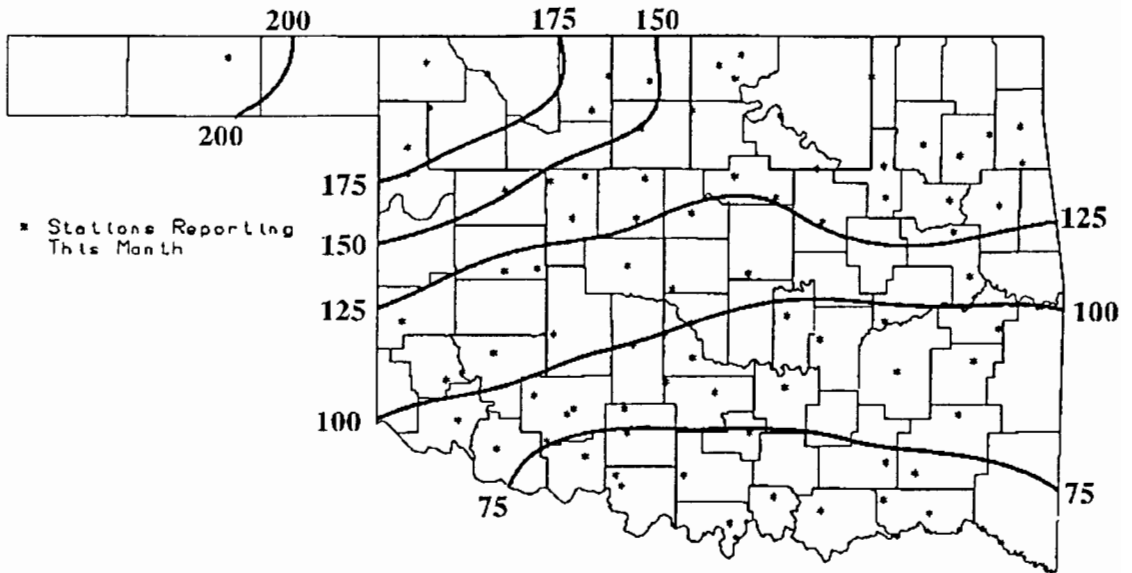
OCTOBER 1992 DEVIATION FROM NORMAL PRECIPITATION  
(Inches)



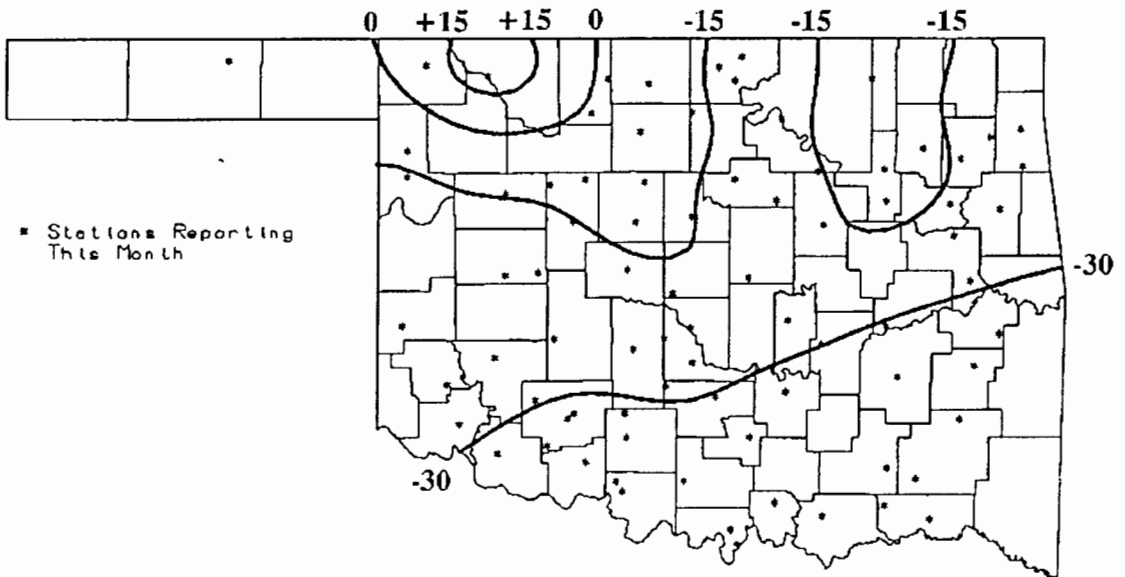
OCTOBER 1992 AVERAGE MONTHLY TEMPERATURES  
(Degrees F)



OCTOBER 1992 DEVIATION FROM NORMAL TEMPERATURES  
(Degrees F)

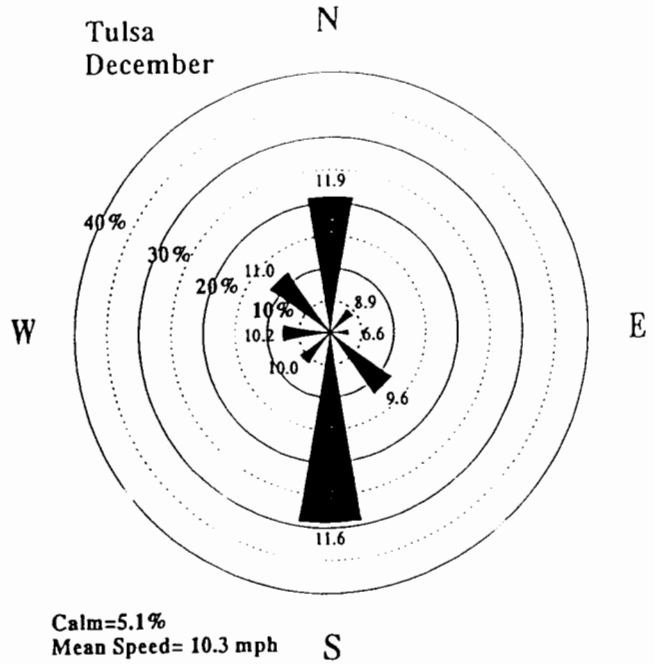
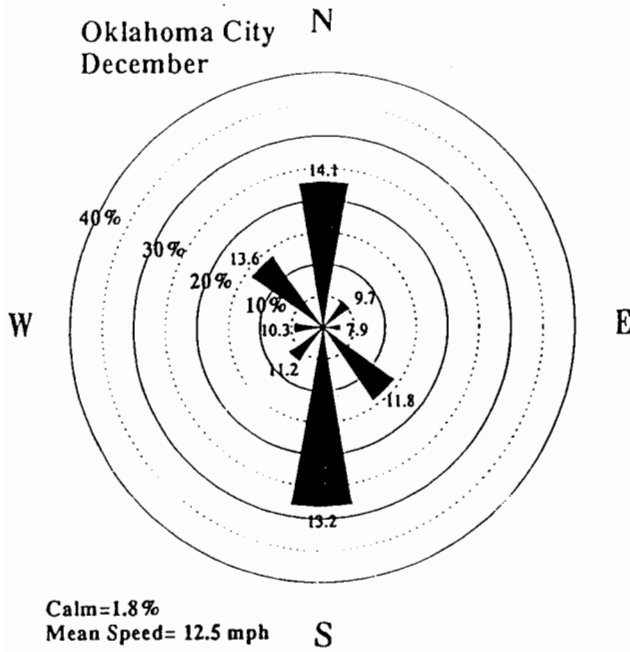


OCTOBER 1992 HEATING DEGREE DAYS



OCTOBER 1992 DEVIATION FROM NORMAL HEATING DEGREE DAYS

December 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.



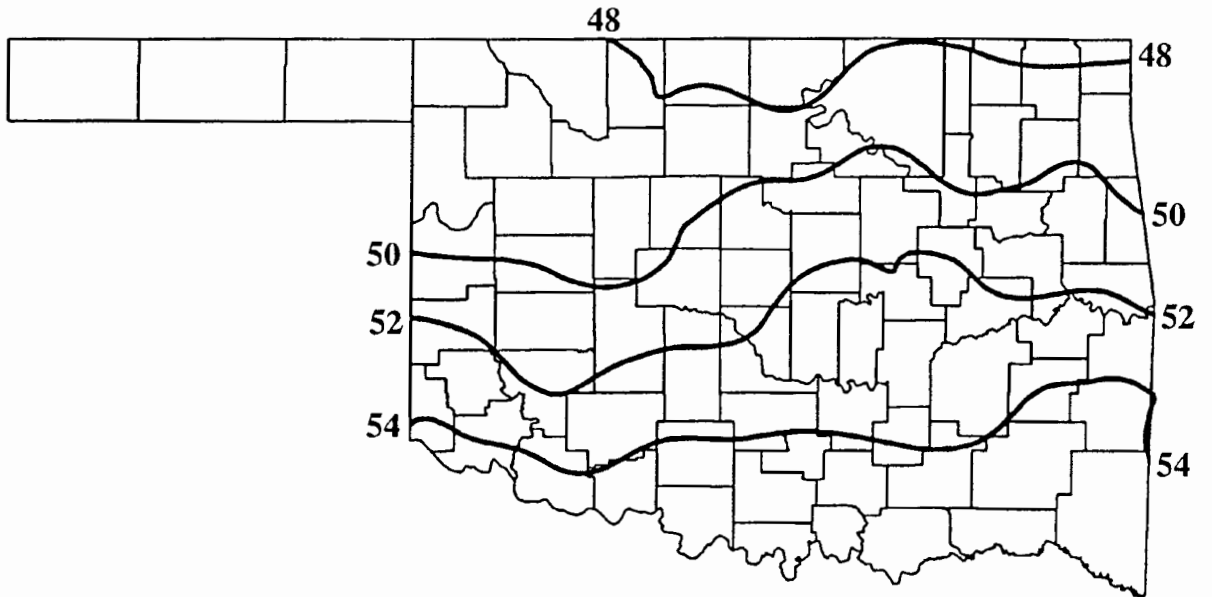
DECEMBER 1992 SUNRISE AND SUNSET

OKLAHOMA CITY

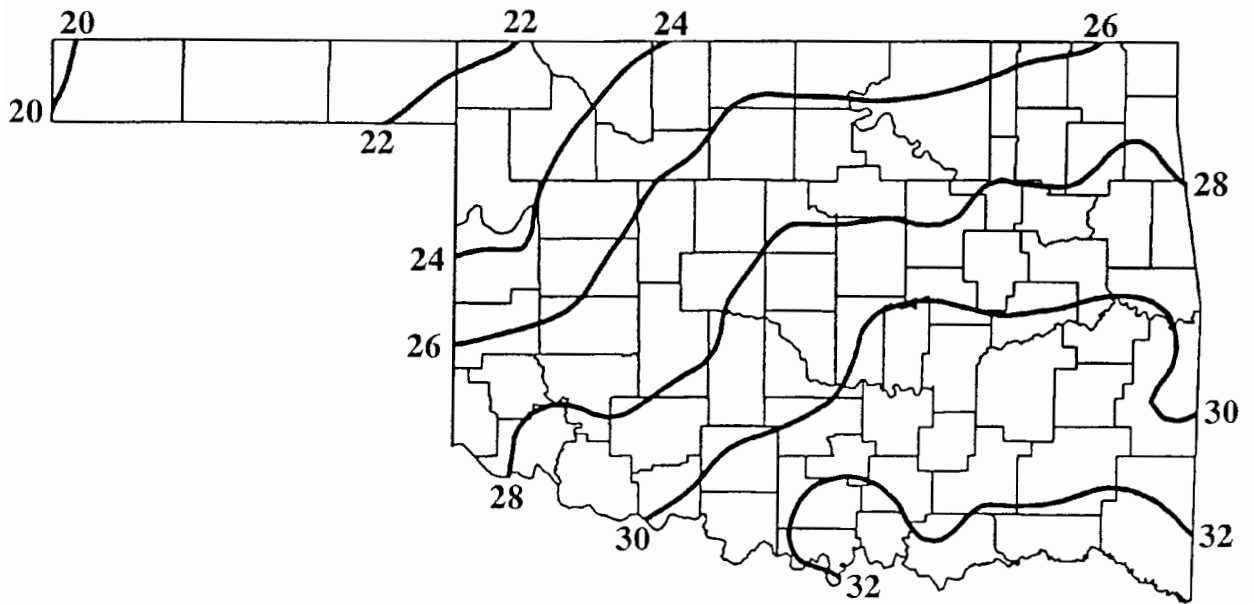
DATE	SUNRISE	SUNSET	DAYLIGHT
9212 1	7:20AM	5:21PM cst	10 hrs 0 mins
9212 2	7:21AM	5:21PM cst	10 hrs 0 mins
9212 3	7:22AM	5:20PM cst	9 hrs 59 mins
9212 4	7:23AM	5:20PM cst	9 hrs 58 mins
9212 5	7:23AM	5:20PM cst	9 hrs 57 mins
9212 6	7:24AM	5:20PM cst	9 hrs 56 mins
9212 7	7:25AM	5:20PM cst	9 hrs 55 mins
9212 8	7:26AM	5:21PM cst	9 hrs 55 mins
9212 9	7:27AM	5:21PM cst	9 hrs 54 mins
921210	7:27AM	5:21PM cst	9 hrs 54 mins
921211	7:28AM	5:21PM cst	9 hrs 53 mins
921212	7:29AM	5:21PM cst	9 hrs 53 mins
921213	7:29AM	5:21PM cst	9 hrs 52 mins
921214	7:30AM	5:22PM cst	9 hrs 52 mins
921215	7:31AM	5:22PM cst	9 hrs 51 mins
921216	7:31AM	5:22PM cst	9 hrs 51 mins
921217	7:32AM	5:23PM cst	9 hrs 51 mins
921218	7:32AM	5:23PM cst	9 hrs 51 mins
921219	7:33AM	5:23PM cst	9 hrs 50 mins
921220	7:33AM	5:24PM cst	9 hrs 50 mins
921221	7:34AM	5:24PM cst	9 hrs 50 mins
921222	7:34AM	5:25PM cst	9 hrs 50 mins
921223	7:35AM	5:25PM cst	9 hrs 50 mins
921224	7:35AM	5:26PM cst	9 hrs 50 mins
921225	7:36AM	5:26PM cst	9 hrs 51 mins
921226	7:36AM	5:27PM cst	9 hrs 51 mins
921227	7:36AM	5:27PM cst	9 hrs 51 mins
921228	7:37AM	5:28PM cst	9 hrs 51 mins
921229	7:37AM	5:29PM cst	9 hrs 52 mins
921230	7:37AM	5:29PM cst	9 hrs 52 mins
921231	7:37AM	5:30PM cst	9 hrs 52 mins

TULSA

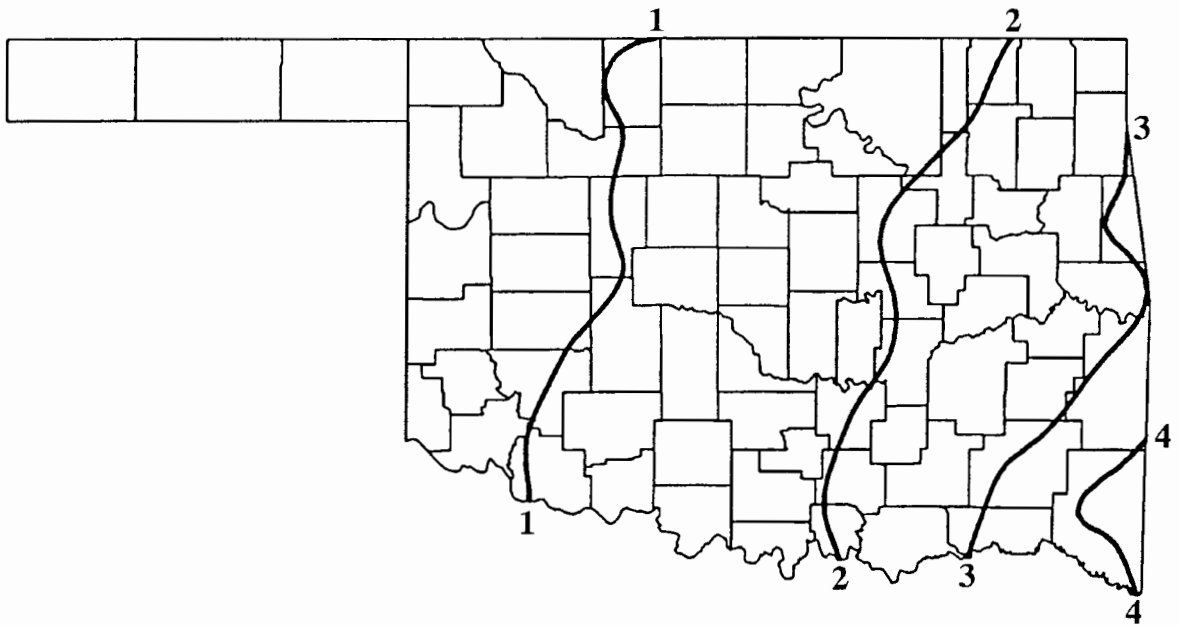
DATE	SUNRISE	SUNSET	DAYLIGHT
9212 1	7:15AM	5:12PM cst	9 hrs 57 mins
9212 2	7:16AM	5:12PM cst	9 hrs 56 mins
9212 3	7:17AM	5:12PM cst	9 hrs 55 mins
9212 4	7:18AM	5:12PM cst	9 hrs 54 mins
9212 5	7:19AM	5:12PM cst	9 hrs 53 mins
9212 6	7:19AM	5:12PM cst	9 hrs 52 mins
9212 7	7:20AM	5:12PM cst	9 hrs 52 mins
9212 8	7:21AM	5:12PM cst	9 hrs 51 mins
9212 9	7:22AM	5:12PM cst	9 hrs 50 mins
921210	7:22AM	5:12PM cst	9 hrs 50 mins
921211	7:23AM	5:12PM cst	9 hrs 49 mins
921212	7:24AM	5:12PM cst	9 hrs 48 mins
921213	7:25AM	5:13PM cst	9 hrs 48 mins
921214	7:25AM	5:13PM cst	9 hrs 48 mins
921215	7:26AM	5:13PM cst	9 hrs 47 mins
921216	7:26AM	5:13PM cst	9 hrs 47 mins
921217	7:27AM	5:14PM cst	9 hrs 47 mins
921218	7:28AM	5:14PM cst	9 hrs 46 mins
921219	7:28AM	5:15PM cst	9 hrs 46 mins
921220	7:29AM	5:15PM cst	9 hrs 46 mins
921221	7:29AM	5:15PM cst	9 hrs 46 mins
921222	7:30AM	5:16PM cst	9 hrs 46 mins
921223	7:30AM	5:16PM cst	9 hrs 46 mins
921224	7:31AM	5:17PM cst	9 hrs 46 mins
921225	7:31AM	5:17PM cst	9 hrs 46 mins
921226	7:31AM	5:18PM cst	9 hrs 47 mins
921227	7:32AM	5:19PM cst	9 hrs 47 mins
921228	7:32AM	5:19PM cst	9 hrs 47 mins
921229	7:32AM	5:20PM cst	9 hrs 48 mins
921230	7:32AM	5:20PM cst	9 hrs 48 mins
921231	7:33AM	5:21PM cst	9 hrs 48 mins



DECEMBER 30-YEAR MEAN DAILY MAXIMUM TEMPERATURE



DECEMBER 30-YEAR MEAN DAILY MINIMUM TEMPERATURE



DECEMBER 30-YEAR MEAN MONTHLY PRECIPITATION

90-DAY NATIONAL WEATHER SERVICE OUTLOOK

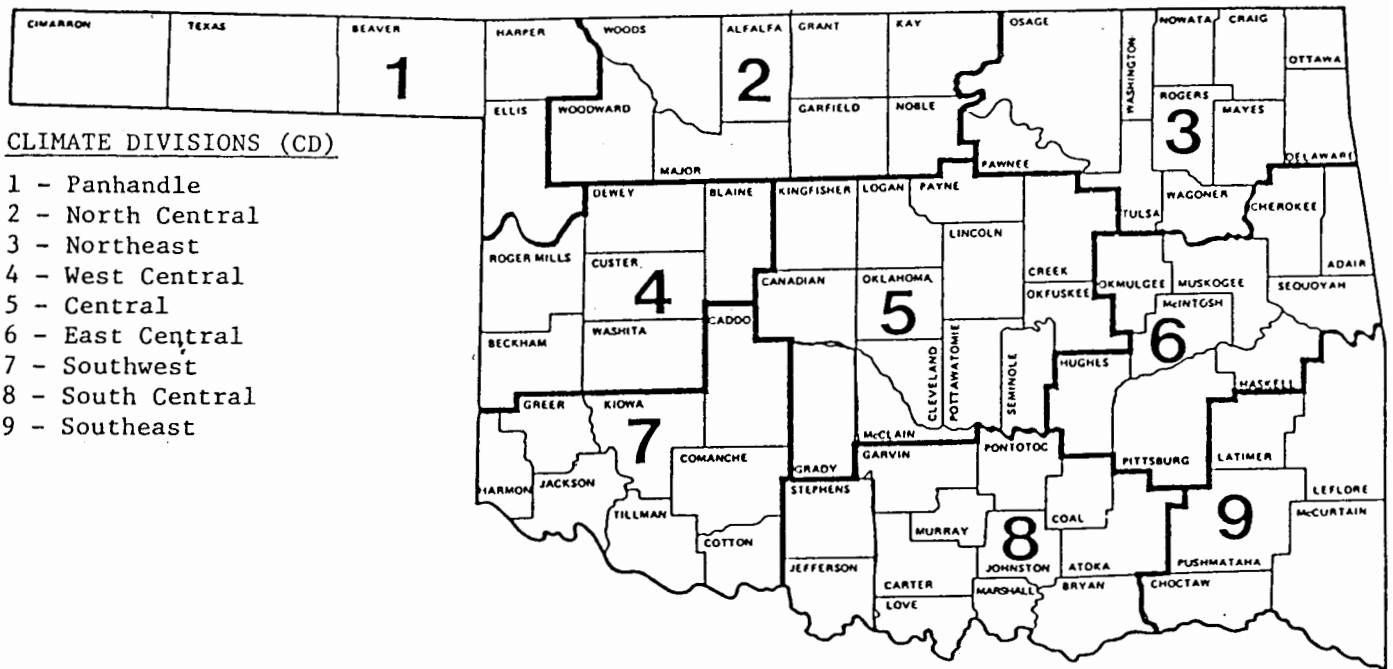
(November 1992 - January 1993)

Precipitation - Below Normal Statewide

Temperature - Below 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.

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).

OKLAHOMA CITY CLIMATE CALENDAR  
 December

Normal 1	Actual	Normal 2	Actual	Normal 3	Actual	Normal 4	Actual	Normal 5	Actual	Normal 6	Actual	Normal 7	Actual
55.1 max 33.4 min .02 ppt 21 hdd 0 cdd	76-1982 20-1985 12-1985 57-1933 60-1913	55.9 max 33.7 min .07 ppt 20 hdd 0 cdd	77-1975 20-1919 10-1985 56-1951 1.59-1953	56.3 max 33.7 min .02 ppt 21 hdd 0 cdd	77-1976 15-1987 6-1997 54-1913 1.39-1947	55.5 max 33.9 min .03 ppt 20 hdd 0 cdd	75-1954 25-1972 6-1897 53-1913 2.59-1930	56.3 max 33.9 min .04 ppt 20 hdd 0 cdd	77-1975 32-1937 9-1950 59-1980 1.00-1935	52.2 max 32.7 min .02 ppt 23 hdd 0 cdd	77-1939 19-1972 4-1950 63-1980 2.78-1892	52.3 max 30.4 min .05 ppt 24 hdd 0 cdd	80-1966 19-1909 5-1950 54-1894 1.23-1980
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
49.7 max 29.9 min .07 ppt 25 hdd 0 cdd	71-1970 17-1917 1-1917 61-1946 1.00-1956	48.9 max 28.6 min .01 ppt 26 hdd 0 cdd	73-1915 15-1919 3-1919 56-1946 1.93-1911	50.3 max 29.7 min .08 ppt 25 hdd 0 cdd	74-1896 22-1917 3-1919 58-1965 1.06-1960	49.2 max 28.6 min .03 ppt 26 hdd 0 cdd	75-1939 21-1961 5-1917 52-1946 1.17-1923	48.8 max 27.3 min .01 ppt 27 hdd 0 cdd	73-1973 17-1932 6-1932 45-1939 1.33-1992	48.0 max 27.8 min .05 ppt 27 hdd 0 cdd	79-1921 17-1958 4-1917 62-1929 1.80-1984	49.1 max 28.5 min .07 ppt 26 hdd 0 cdd	74-1933 10-1901 2-1901 64-1948 1.37-1902
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
47.4 max 27.1 min .06 ppt 28 hdd 0 cdd	75-1948 19-1901 3-1988 59-1929 1.53-1984	50.1 max 27.4 min .03 ppt 26 hdd 0 cdd	73-1939 21-1932 7-1989 56-1929 56-1931	50.4 max 28.4 min .06 ppt 26 hdd 0 cdd	75-1939 21-1964 2-1979 45-1939 1.68-1959	49.5 max 28.6 min .03 ppt 26 hdd 0 cdd	69-1982 19-1983 4-1924 47-1939 2.20-1988	49.9 max 29.1 min .04 ppt 25 hdd 0 cdd	75-1978 8-1924 -2-1924 54-1978 1.10-1987	49.6 max 27.6 min .04 ppt 26 hdd 0 cdd	73-1966 15-1924 2-1924 51-1890 85-1984	47.8 max 25.5 min .03 ppt 28 hdd 0 cdd	68-1966 11-1983 2-1983 53-1894 1.26-1907
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
49.6 max 27.6 min .03 ppt 26 hdd 0 cdd	75-1896 4-1989 -4-1989 55-1893 2.01-1932	49.8 max 28.6 min .05 ppt 26 hdd 0 cdd	72-1982 10-1983 8-1989 57-1965 1.80-1932	49.1 max 27.1 min .09 ppt 27 hdd 0 cdd	86-1955 3-1983 0-1983 54-1893 1.47-1914	47.9 max 26.7 min .03 ppt 28 hdd 0 cdd	73-1922 13-1983 -1-1983 49-1936 1.05-1987	49.7 max 27.8 min .02 ppt 26 hdd 0 cdd	68-1968 18-1892 2-1892 56-1936 1.15-1940	49.5 max 28.4 min .06 ppt 26 hdd 0 cdd	75-1946 15-1894 3-1924 56-1946 1.06-1927	48.4 max 29.7 min .06 ppt 26 hdd 0 cdd	73-1947 21-1925 1-1924 59-1984 1.85-1979
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	

DECEMBER AVERAGES

TEMPERATURE : 39.6°F  
 PRECIPITATION : 1.34"  
 HEATING DEGREE DAYS : 786  
 COOLING DEGREE DAYS : 0

The data on this calendar are for Tulsa. Normal values are calculated for the period 1948-1991. Temperature extremes are for the period 1905-1992; precipitation extremes are for the period 1948-1992

TULSA CLIMATE CALENDAR

December

Normal	Actual	Normal	Actual	Normal	Actual	Normal	Actual	Normal	Actual	Normal	Actual	Normal	Actual	Normal	Actual	Normal	Actual														
55.0 34.0 .02 20 0	max min ppt hdd cdd	77-1950	Highest Max	56.0 34.0 .03 20 0	max min ppt hdd cdd	76-1956	Highest Max	55.0 34.0 .05 20 0	max min ppt hdd cdd	77-1906	Highest Max	56.0 34.0 .07 20 0	max min ppt hdd cdd	77-1989	Highest Max	51.0 31.0 .06 24 0	max min ppt hdd cdd	77-1966	Highest Max	52.0 31.0 .04 24 0	max min ppt hdd cdd	80-1966	Highest Max	26-1950	Lowest Max	4-1950	Lowest Min	53-1991	Highest Min	77-1980	Greatest ppt
50.0 30.0 .08 25 0	max min ppt hdd cdd	73-1991	Highest Max	48.0 29.0 .04 26 0	max min ppt hdd cdd	73-1915	Highest Max	50.0 30.0 .04 25 0	max min ppt hdd cdd	73-1929	Highest Max	48.0 28.0 .02 27 0	max min ppt hdd cdd	73-1924	Highest Max	47.0 27.0 .07 28 0	max min ppt hdd cdd	80-1948	Highest Max	49.0 28.0 .15 26 0	max min ppt hdd cdd	74-1933	Highest Max	25-1965	Lowest Max	4-1958	Lowest Min	64-1948	Highest Min	3-02-1971	Greatest ppt
48.0 28.0 .05 27 0	max min ppt hdd cdd	77-1948	Highest Max	50.0 29.0 .03 26 0	max min ppt hdd cdd	78-1908	Highest Max	49.0 29.0 .04 25 0	max min ppt hdd cdd	75-1939	Highest Max	50.0 29.0 .11 25 0	max min ppt hdd cdd	70-1967	Highest Max	49.0 28.0 .05 27 0	max min ppt hdd cdd	75-1965	Highest Max	48.0 27.0 .03 27 0	max min ppt hdd cdd	70-1979	Highest Max	17-1963	Lowest Max	0-1989	Lowest Min	44-1979	Highest Min	47-1949	Greatest ppt
50.0 30.0 .05 25 0	max min ppt hdd cdd	77-1956	Highest Max	50.0 30.0 .05 25 0	max min ppt hdd cdd	77-1908	Highest Max	49.0 29.0 .04 25 0	max min ppt hdd cdd	75-1939	Highest Max	50.0 29.0 .11 25 0	max min ppt hdd cdd	70-1967	Highest Max	49.0 28.0 .05 27 0	max min ppt hdd cdd	75-1965	Highest Max	48.0 27.0 .03 27 0	max min ppt hdd cdd	70-1979	Highest Max	17-1963	Lowest Max	0-1989	Lowest Min	44-1979	Highest Min	47-1949	Greatest ppt
50.0 30.0 .05 25 0	max min ppt hdd cdd	77-1956	Highest Max	50.0 30.0 .05 25 0	max min ppt hdd cdd	77-1908	Highest Max	49.0 29.0 .04 25 0	max min ppt hdd cdd	75-1939	Highest Max	50.0 29.0 .11 25 0	max min ppt hdd cdd	70-1967	Highest Max	49.0 28.0 .05 27 0	max min ppt hdd cdd	75-1965	Highest Max	48.0 27.0 .03 27 0	max min ppt hdd cdd	70-1979	Highest Max	17-1963	Lowest Max	0-1989	Lowest Min	44-1979	Highest Min	47-1949	Greatest ppt
49.0 29.0 .05 26 0	max min ppt hdd cdd	71-1962	Highest Max	50.0 30.0 .05 25 0	max min ppt hdd cdd	73-1982	Highest Max	48.0 27.0 .14 27 0	max min ppt hdd cdd	80-1955	Highest Max	48.0 28.0 .04 27 0	max min ppt hdd cdd	69-1971	Highest Max	48.0 29.0 .12 26 0	max min ppt hdd cdd	77-1946	Highest Max	47.0 29.0 .02 27 0	max min ppt hdd cdd	74-1964	Highest Max	25-1983	Lowest Max	0-1924	Lowest Min	62-1984	Highest Min	30-1954	Greatest ppt
46.0 27.0 .05 28 0	max min ppt hdd cdd	77-1951	Highest Max	46.0 27.0 .05 28 0	max min ppt hdd cdd	77-1951	Highest Max	46.0 27.0 .05 28 0	max min ppt hdd cdd	78-1951	Highest Max	46.0 27.0 .05 28 0	max min ppt hdd cdd	78-1951	Highest Max	46.0 27.0 .05 28 0	max min ppt hdd cdd	77-1951	Highest Max	46.0 27.0 .05 28 0	max min ppt hdd cdd	77-1951	Highest Max	16-1990	Lowest Max	2-1983	Lowest Min	58-1965	Highest Min	35-1974	Greatest ppt
46.0 27.0 .05 28 0	max min ppt hdd cdd	77-1951	Highest Max	46.0 27.0 .05 28 0	max min ppt hdd cdd	77-1951	Highest Max	46.0 27.0 .05 28 0	max min ppt hdd cdd	78-1951	Highest Max	46.0 27.0 .05 28 0	max min ppt hdd cdd	78-1951	Highest Max	46.0 27.0 .05 28 0	max min ppt hdd cdd	77-1951	Highest Max	46.0 27.0 .05 28 0	max min ppt hdd cdd	77-1951	Highest Max	16-1990	Lowest Max	2-1983	Lowest Min	58-1965	Highest Min	35-1974	Greatest ppt

DECEMBER AVERAGES

TEMPERATURE : 39.6°F  
 PRECIPITATION : 1.98"  
 HEATING DEGREE DAYS : 781  
 COOLING DEGREE DAYS : 0