

OKLAHOMA REVISED MONTHLY SUMMARY DECEMBER 1997

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MONTHLY SUMMARY FOR DECEMBER 1997

Largely as a result of a series of winter storms that produced snow in the northwest and lots of rain, some of it freezing, elsewhere, December 1997 turned out to be significantly wetter and cooler than normal. According to preliminary data from the National Weather Service's cooperative observing network, the statewide-averaged precipitation reached 3.97 inches, a robust 2.31 inches greater than normal, to rank this as the 9th wettest December since the beginning of the historical record in 1892. The accompanying temperature record produced a state-averaged temperature of 38.3 degrees, 1.2 degrees lower than normal and the 28th lowest December temperature on record. The December statistics contributed to a 1997 annual statewide-averaged precipitation of 39.75 (5.51 inches greater than normal, the 17th wettest year on record) and temperature of 59.2 degrees (1.1 degrees lower than normal, 14th lowest all-time annual temperature).

Showers were commonplace around the state over the first half of the month. Two-to-four-inch snowfalls were reported in the Panhandle on the 2nd and 3rd. A significant intrusion of cold air on the 6th produced a 7 degree overnight low temperature at Fort Supply Dam (Woodward County). Large hail and damaging thunderstorm winds were reported in Craig and Delaware counties and strong winds damaged a building in Wewoka (Seminole) on the 8th. Snow covered much of northwestern Oklahoma on the 10th. Guymon (Texas) received over 5 inches of snow while Gate (Beaver) and Laverne (Harper) each reported over 3 inches by the morning of the 11th.

The approach of a major storm system was first noticed in the state on the 20th when strong winds dominated western Oklahoma (winds at the Weatherford Mesonet site in Custer County averaged 24.7 miles per hour for the day) and snow and freezing rain fell in the state's western counties. An ice storm in Roger Mills County led to a power outage that affected over 4,000 people in west central Oklahoma. The storm reached maturity late on the 20th, dumping more than a foot of snow on several Panhandle locations by the morning of the 24th, including 18 inches at Range (Texas), 17 inches at Beaver (Beaver County), 15 inches each at Boise City (Cimarron) and Turpin (Beaver), 14 inches at Laverne, and 13 inches at Gate. Lesser snowfall amounts were reported over most of the northwestern half of the state and daily rainfall amounts of over 3 inches were reported at Boswell (Choctaw), Tuskahoma (Pushmataha), Daisy (Atoka), Durant Mesonet (Bryan), and Bokchito (Bryan), as rain was commonplace over the rest of the state.

Temperatures plunged in the northwest and the snow cover helped Kenton (Cimarron) reach a low of 4 degrees on the 26th. A lesser snow storm crossed the southern third of the state on the 26th, producing four inches of snow at Hennepin (Garvin) and generally one to three inches elsewhere. Strong winds exacerbated the cold in the west on the 28th (25.2 mile-per-hour daily average at Cheyenne Mesonet in Roger Mills County) and led to significant blowing snow in the Panhandle where Mesonet sites near Kenton and Boise City Mesonet noted peak winds of 57 and 53 miles per hour, respectively.

Howard L. Johnson

**EXTREME VALUES OF TEMPERATURE AND PRECIPITATION IN EACH CLIMATE DIVISION
DECEMBER, 1997**

CD	MAX TEMP	DATE	LOCATION	MIN TEMP	DATE	LOCATION	24-HOUR PRECIP	DATE	LOCATION	MONTHLY PRECIP	LOCATION
1	69	16	BEAVER	4	26	KENTON	1.78	24	LAVERNE	3.46	LAVERNE
	69	15	BUFFALO								
	69	16	GOODWELL								
	69	15	GUYMON								
	69	16	GUYMON								
2	68	16	FREEDOM	7	6	FT SUPPLY	2.13	7	PONCA CITY	5.33	PONCA CITY
3	69	20	CLAREMORE	15	13	BARNSDALL	2.04	24	SKIATOOK	5.52	LENAPAH
	69	19	MANNFORD								
	69	19	TULSA								
	69	19	UPPER SPAV								
	69	18	WAGONER								
4	67	16	CLINTON	12	13	REYDON	1.80	24	OKEENE	3.86	OKEENE
	67	16	ERICK								
5	71	19	BRISTOW	13	13	PURCELL	2.00	24	PURCELL	5.27	PURCELL
	71	20	CHANDLER								
	71	19	CHICKASHA								
	71	19	OKEMAH								
6	71	19	HANNA	17	13	OKMULGEE	3.20	24	STILWELL	7.21	STILWELL
	71	19	MCCURTAIN								
	71	20	OKMULGEE								
	71	20	WEBBERS FALL								
7	71	20	CHATTANOOGA	15	13	ALTUS DAM	2.57	30	VINSON	4.76	VINSON
8	72	1	ATOKA DAM	13	13	MARLOW	3.08	21	DAISY	8.20	DURANT
	72	1	WAURIKA DAM								
9	73	3	BEAR MT	15	6	PAGE	3.17	21	BOSWELL	7.35	BATTIEST

**TABLE OF 1997/1998 COMPARISONS
MARCH
Temperature (°F)**

**MARCH
Precipitation (in.)**

Station	1998	1997	1998	1997
Arnett	36.0	33.4	0.72	1.45
Mutual	****	34.7	****	1.47
Tulsa	42.0	39.3	0.10	1.60
Elk City	42.5	37.2	0.77	2.77
Oklahoma City	42.2	39.1	0.001	0.62
McAlester	44.7	42.1	0.31	1.01
Altus Irr Station	45.2	39.1	0.22	1.24
Ardmore	****	42.5	****	1.94
Idabel	45.2	41.8	3.53	2.00

VARIABLE	STATION	EXTREMES		OBSERVATION	DATE
		DIVISION			
Minimum temperature (°F)	Kenton	1		4	26
Maximum temperature (°F)	Bear Mt.	9		73	3
Maximum 24-hour precipitation	Stilwell	6		3.20	30

DECEMBER 1997 SUMMARY FOR PANHANDLE DIVISION (CD1)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV		MAX TEMP	DAY	MIN TEMP	DAY	HEAT		DEV		COOL		DEV		TOT PPT	NUM OBS	DEV		MAX 24-HR	DAY
					FROM NORM	MAX					DEG DAY	FROM NORM	DEG DAY	FROM NORM	DEG DAY	FROM NORM	DEG DAY	FROM NORM			DEG DAY	FROM NORM		
ARNETT	332	1	33.4	31	-2	65	19	13	13	979	61	0	0	2.762	31	1.99	1.45	24						
BEAVER	593	1	31.9	31	-2.1	69	16	10	28	1027	66	0	0	3.010	31	2.42	1.08	24						
BOISE CITY	908	1	32.5	31	-3.2	64	18	9	27	1008	100	0	0	2.213	31	1.83	1.10	23						
BUFFALO	1243	1	35.0	31	-2.1	69	15	13	26	930	65	0	0	0.500	31	-0.30	0.30	21						
FARGO	3070	1	*****	0*	****	****	0	****	0	*****	*****	*****	*****	1.452	31	0.68	0.54	23						
GAGE	3407	1	34.0	24*	****	67	15	12	5	743	*****	0	*****	0.594	27	*****	0.48	21						
GATE	3489	1	33.5	31	-1.5	67	16	15	28	976	46	0	0	3.081	31	2.38	1.37	24						
GOODWELL	3628	1	33.1	31	-0.8	69	16	12	26	989	25	0	0	0.311	31	0.03	0.21	21						
GUYMON	3835	1	32.9	31*	****	69	16	12	26	994	*****	0	*****	0.540	31	*****	0.25	23						
HOOVER	4298	1	32.4	31	-2.6	67	16	11	28	1012	82	0	0	1.260	31	0.85	1.00	24						
KENTON	4766	1	33.7	29*	****	65	15	4	26	908	*****	0	*****	1.373	31	1.07	0.74	23						
LAVERNE	5045	1	*****	0*	****	****	0	****	0	*****	*****	*****	*****	3.464	31	2.73	1.78	24						
RANGE	7412	1	*****	0*	****	****	0	****	0	*****	*****	*****	*****	0.366	28	*****	0.33	3						
REGNIER	7534	1	*****	0*	****	****	0	****	0	*****	*****	*****	*****	1.261	31	0.93	0.64	23						
TURPIN	9017	1	31.2	18*	****	66	16	6	29	608	*****	0	*****	0.260	18	*****	0.08	24						

DECEMBER 1997 SUMMARY FOR NORTH CENTRAL DIVISION (CD2)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV		MAX TEMP	DAY	MIN TEMP	DAY	HEAT		DEV		COOL		DEV		TOT PPT	NUM OBS	DEV		MAX 24-HR	DAY
					FROM NORM	MAX					DEG DAY	FROM NORM	DEG DAY	FROM NORM	DEG DAY	FROM NORM	DEG DAY	FROM NORM			DEG DAY	FROM NORM		
ALVA	193	2	36.1	31*	****	65	16	18	12	897	*****	0	*****	3.500	30	*****	1.70	24						
VANCE AFB	302	2	*****	0*	****	****	0	****	0	*****	*****	*****	*****	2.202	25	*****	1.19	23						
BILLINGS	755	2	36.4	31	0.4	63	19	19	14	886	-13	0	0	3.792	31	2.42	1.10	24						
BLACKWELL 2E	818	2	36.4	31	-0.1	63	19	19	14	887	3	0	0	3.382	31	2.03	1.08	24						
BRAMAN	1075	2	*****	0*	****	****	0	****	0	*****	*****	*****	*****	3.130	31	*****	1.14	24						
CEDARDALE	1620	2	*****	0*	****	****	0	****	0	*****	*****	*****	*****	2.656	31	*****	1.03	21						
CHEROKEE	1724	2	35.9	31	-1.4	66	1	20	12	904	45	0	0	3.051	31	1.92	1.20	24						
ENID	2912	2	36.7	31	-1.3	62	15	20	5	878	41	0	0	3.290	31	2.15	1.40	24						
FT SUPPLY	3304	2	32.1	31	-2.6	66	20	7	6	1019	80	0	0	3.256	31	2.54	1.79	24						
FREEDOM	3358	2	33.6	31	-2.8	68	16	11	7	973	86	0	0	3.290	31	2.48	1.88	23						
HARDY	3909	2	*****	0*	****	****	0	****	0	*****	*****	*****	*****	3.301	31	*****	1.28	24						
HELENA	4019	2	37.0	31	1.9	63	16	20	6	867	-60	0	0	3.664	31	2.68	1.58	24						
JEFFERSON	4573	2	38.1	31	1.1	63	15	18	6	833	-36	0	0	3.383	31	2.19	1.44	23						
LAMONT	5013	2	*****	0*	****	****	0	****	0	*****	*****	*****	*****	3.230	31	*****	1.10	24						
MEDFORD	5768	2	*****	0*	****	****	0	****	0	*****	*****	*****	*****	3.372	31	*****	1.37	23						
MORRISON	6065	2	*****	0*	****	****	0	****	0	*****	*****	*****	*****	3.342	31	*****	1.10	24						
MUTUAL	6139	2	34.7	31	-0.8	63	16	16	13	940	25	0	0	3.040	31	2.30	1.47	24						
NEWKIRK	6278	2	35.7	31	-0.9	62	19	17	7	910	30	0	0	3.472	31	2.04	1.12	24						
ORIENTA	6751	2	*****	0*	****	****	0	****	0	*****	*****	*****	*****	2.910	31	2.10	1.30	24						
PERRY	7012	2	38.1	31	-0.7	66	20	20	6	833	21	0	0	3.811	31	2.48	1.30	24						
PONCA CITY	7201	2	39.5	29*	****	67	18	21	13	739	*****	0	*****	5.333	29	*****	2.13	7						
RED ROCK	7505	2	*****	0*	****	****	0	****	0	*****	*****	*****	*****	3.660	31	2.32	1.25	24						
WAYNOKA	9404	2	35.5	24*	****	67	15	15	5	709	*****	0	*****	1.350	24	*****	0.85	20						
WOODWARD	9760	2	*****	0*	****	****	0	****	0	*****	*****	*****	*****	3.335	31	2.50	1.25	24						

DECEMBER 1997 SUMMARY FOR CENTRAL DIVISION (CD5)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
AMBER	200	5	*****	0*	****	****	0	****	0	*****	*****	*****	*****	3.540	31	*****	1.46	24
ARCADIA	288	5	*****	0*	****	****	0	****	0	*****	*****	*****	*****	3.530	31	*****	1.50	24
BLANCHARD	830	5	40.1	31	-1.2	69	19	19	6	771	36	0	0	3.743	31	2.15	1.68	24
BRISTOW	1144	5	40.4	31	0.3	71	19	16	13	762	-10	0	0	4.385	31	2.32	1.70	24
CHANDLER	1684	5	39.6	31	-0.8	71	20	17	13	787	24	0	0	4.061	31	2.53	1.86	24
CHICKASHA EX	P 1750	5	40.8	31	0.3	71	19	16	13	750	-10	0	0	3.570	31	2.31	1.83	24
COX CITY	2196	5	*****	0*	****	****	0	****	0	*****	*****	*****	*****	5.210	31	*****	1.48	21
CRESCENT	2242	5	*****	0*	****	****	0	****	0	*****	*****	*****	*****	3.740	31	*****	1.60	23
CUSHING	2318	5	38.5	31	0.3	68	20	17	6	820	-11	0	0	4.160	31	2.63	1.75	24
EDMOND	2788	5	*****	0*	****	****	0	****	0	*****	*****	*****	*****	4.022	31	*****	1.64	23
EL RENO	2818	5	41.5	31	2.7	69	1	23	13	730	-83	0	0	3.380	31	2.34	1.30	24
GUTHRIE	3821	5	37.2	31	-2.7	66	19	14	13	863	85	0	0	4.492	31	2.99	1.60	24
HENNESSEY	4055	5	37.5	31	-0.6	61	18	18	5	854	20	0	0	3.320	31	2.28	1.22	24
INGALLS	4489	5	*****	0*	****	****	0	****	0	*****	*****	*****	*****	3.620	29	*****	1.90	24
KINGFISHER	4861	5	37.9	31	-1.2	64	20	17	13	840	37	0	0	3.360	31	2.17	1.43	24
KONAWA	4915	5	*****	0*	****	****	0	****	0	*****	*****	*****	*****	3.640	31	1.76	1.40	21
MARSHALL	5589	5	*****	0*	****	****	0	****	0	*****	*****	*****	*****	2.522	31	1.37	1.15	24
MEEKER	5779	5	40.0	31	-0.2	70	19	17	13	775	6	0	0	4.040	31	2.62	1.85	23
MULHALL	6110	5	*****	0*	****	****	0	****	0	*****	*****	*****	*****	3.880	31	*****	1.72	24
NORMAN NWS	6386	5	38.5	31	-2.5	69	19	16	13	820	76	0	0	4.135	31	2.56	1.72	23
OKEMAH	6638	5	42.8	31	2	71	19	23	6	689	-62	0	0	4.340	31	2.34	1.70	24
OKLAHOMA CTY	F.6659	5	*****	0*	****	****	0	****	0	*****	*****	*****	*****	2.806	25	*****	1.45	24
OKLAHOMA CTY	6661	5	39.1	31	-0.2	67	19	16	13	803	6	0	0	2.017	31	0.62	1.00	23
PRAGUE	7264	5	*****	0*	****	****	0	****	0	*****	*****	*****	*****	4.152	31	2.33	1.72	24
PERKINS	7003	5	*****	0*	****	****	0	****	0	*****	*****	*****	*****	3.910	31	2.38	1.58	24
PIEDMONT	7068	5	*****	0*	****	****	0	****	0	*****	*****	*****	*****	3.890	31	*****	1.65	23
PURCELL	7327	5	37.9	30	-2.6	69	20	13	14	813	53	0	0	5.270	30	*****	2.00	24
SEMINOLE	8042	5	39.7	31	-2.3	69	19	18	13	786	73	0	0	3.960	31	2.14	1.46	23
SHAWNEE	8110	5	*****	0*	****	****	0	****	0	*****	*****	*****	*****	4.281	31	2.40	1.73	24
STELLA	8479	5	*****	0*	****	****	0	****	0	*****	*****	*****	*****	4.062	31	*****	1.87	24
STILLWATER	8501	5	39.0	31	1.6	65	19	19	13	807	-49	0	0	2.343	31	1.04	1.11	22
STROUD	8563	5	*****	0*	****	****	0	****	0	*****	*****	*****	*****	3.821	31	*****	1.51	24
TECUMSEH	8751	5	*****	0*	****	****	0	****	0	*****	*****	*****	*****	4.340	31	*****	1.85	24
TROUSDALE	8960	5	*****	0*	****	****	0	****	0	*****	*****	*****	*****	4.521	25	*****	1.70	24
UNION CITY	9086	5	*****	0*	****	****	0	****	0	*****	*****	*****	*****	4.031	31	2.68	1.46	24
WELTY	9479	5	*****	0*	****	****	0	****	0	*****	*****	*****	*****	4.331	31	*****	1.54	24
WEWOKA	9575	5	*****	0*	****	****	0	****	0	*****	*****	*****	*****	4.761	31	2.86	1.73	24

DECEMBER 1997 SUMMARY FOR EAST CENTRAL DIVISION (CD6)

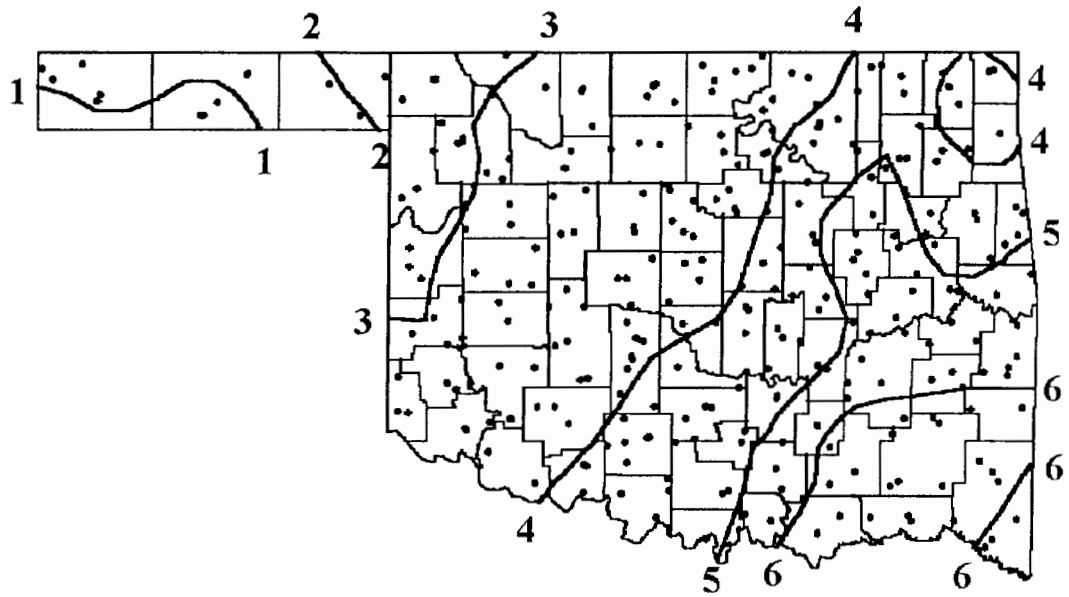
NAME	ID	CD	MEAN TEMP	NUM OBS	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
ASHLAND	364	6	*****	0*	****	****	0	****	0	*****	*****	*****	*****	6.273	31	*****	2.15	24
BEGGS	631	6	*****	0*	****	****	0	****	0	*****	*****	*****	*****	4.891	31	*****	1.97	24
CALVIN	1391	6	*****	0*	****	****	0	****	0	*****	*****	*****	*****	3.760	31	1.57	1.72	24
CHECOTAH	1711	6	*****	0*	****	****	0	****	0	*****	*****	*****	*****	5.520	31	3.07	2.45	24
CLAYTON	1858	6	*****	0*	****	****	0	****	0	*****	*****	*****	*****	6.310	31	*****	2.60	21
DEWAR	2485	6	*****	0*	****	****	0	****	0	*****	*****	*****	*****	5.445	31	3.36	1.96	24
DUSTIN	2690	6	*****	0*	****	****	0	****	0	*****	*****	*****	*****	5.392	31	*****	2.17	24
EUFULA	2993	6	41.5	31	-1.4	69	19	24	6	727	42	0	0	4.940	31	2.24	2.25	24
HANNA	3884	6	40.3	31	-1.2	71	19	19	13	767	38	0	0	5.511	31	3.07	2.15	24
HASKELL	3956	6	*****	0*	****	****	0	****	0	*****	*****	*****	*****	5.110	31	2.83	2.26	24
LAKE EUFAULA	4975	6	39.8	23*	****	65	20	22	7	581	*****	0	*****	1.611	23	*****	0.81	8
LYONS	5437	6	*****	0*	****	****	0	****	0	*****	*****	*****	*****	4.381	31	1.63	1.22	21
MARBLE CITY	5546	6	*****	0*	****	****	0	****	0	*****	*****	*****	*****	4.950	31	*****	1.52	21
MCALESTER	5664	6	42.1	27*	****	70	19	19	6	619	*****	0	*****	2.943	29	*****	1.01	23
MCCURTAIN	5693	6	42.2	31	-0.3	71	19	23	5	706	8	0	0	5.493	31	2.67	1.90	21
MUSKOGEE	6130	6	40.4	31	-0.2	69	19	20	6	763	7	0	0	4.090	31	1.19	1.12	23
OKMULGEE	6670	6	39.5	27*	****	71	20	17	14	690	*****	0	*****	5.090	28	*****	1.87	23
OKTAHA	6678	6	*****	0*	****	****	0	****	0	*****	*****	*****	*****	5.220	31	*****	2.21	24
QUINTON	7372	6	*****	0*	****	****	0	****	0	*****	*****	*****	*****	5.461	31	2.82	2.00	23
SALLISAW	7862	6	39.3	31	-2	68	20	22	7	798	63	0	0	4.880	31	2.07	1.33	24
SCIPIO	7979	6	*****	0*	****	****	0	****	0	*****	*****	*****	*****	5.480	31	*****	1.90	24
SCRAPER	7993	6	*****	0*	****	****	0	****	0	*****	*****	*****	*****	*****	0	*****	*****	0
SHORT	8170	6	*****	0*	****	****	0	****	0	*****	*****	*****	*****	5.320	31	*****	1.24	8
STILWELL	8506	6	37.3	31	-2.7	66	19	18	6	860	85	0	0	7.211	31	4.05	3.20	24
TAHLEQUAH	8677	6	39.2	31	-0.5	70	19	20	31	800	16	0	0	4.281	31	1.28	1.35	24
WEBBERS FALL	9445	6	40.0	31	0.6	71	20	19	7	776	-19	0	0	5.150	31	2.44	1.97	24
WESTVILLE	9523	6	*****	0*	****	****	0	****	0	*****	*****	*****	*****	3.590	31	*****	1.14	25
WETUMKA	9571	6	*****	0*	****	****	0	****	0	*****	*****	*****	*****	3.923	30	*****	1.51	24

DECEMBER 1997 SUMMARY FOR SOUTHEAST DIVISION (CD9)

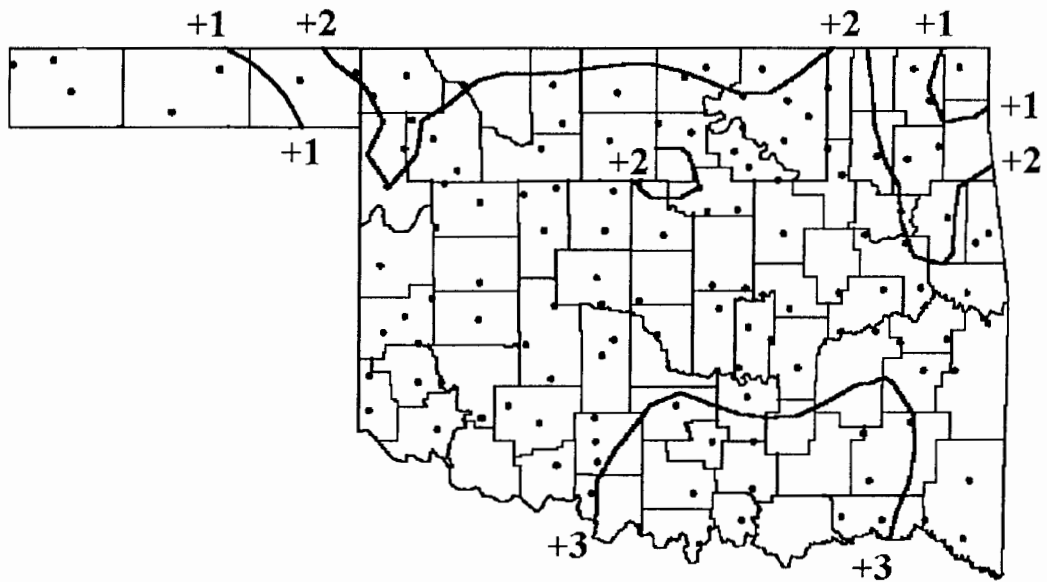
NAME	ID	CD	MEAN TEMP	NUM OBS	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
ANTLERS	256	9	41.8	31	-1.3	66	19	24	18	719	40	0	0	6.480	31	3.60	1.65	20
BATTIEST	567	9	38.5	31*	****	64	20	21	28	823	*****	0	*****	7.350	31	*****	2.60	21
BEAR MT	584	9	45.3	14*	****	73	3	22	8	276	*****	0	*****	3.890	16	*****	1.50	8
BENGAL	670	9	*****	0*	****	****	0	****	0	*****	*****	*****	*****	6.290	31	*****	2.44	21
BOSWELL	980	9	41.7	31	-2.1	65	20	24	6	722	65	0	0	7.010	31	4.23	3.17	21
BROKEN BOW	1162	9	*****	0*	****	****	0	****	0	*****	*****	*****	*****	6.320	25	*****	1.67	23
CARNASAW	1499	9	*****	0*	****	****	0	****	0	*****	*****	*****	*****	5.402	31	1.29	1.73	24
CARTER TWR	1544	9	*****	0*	****	****	0	****	0	*****	*****	*****	*****	6.080	31	1.96	2.10	20
FANSHAWE	3065	9	*****	0*	****	****	0	****	0	*****	*****	*****	*****	0.000	31	-3.21	0.00	31
HUGO	4384	9	42.1	31	-2.7	67	19	24	5	709	83	0	0	5.630	31	2.31	2.30	20
IDABEL	4451	9	41.2	31	-2.1	69	20	21	7	737	64	0	0	6.172	31	2.49	2.00	21
PAGE	6842	9	38.0	31*	****	64	20	15	6	839	*****	0	*****	6.100	31	*****	2.32	24
POTEAU	7254	9	40.0	31*	****	68	19	20	5	775	*****	0	*****	5.940	31	*****	2.18	23
SPIRO	8416	9	*****	0*	****	****	0	****	0	*****	*****	*****	*****	6.080	31	3.02	1.96	21
SMITHVILLE	8285	9	39.2	29*	****	64	20	20	18	749	*****	0	*****	7.058	29	*****	2.55	21
VALLIANT	9118	9	*****	0*	****	****	0	****	0	*****	*****	*****	*****	6.950	31	3.24	2.31	21
TUSKAHOMA	9023	9	40.4	30	-2.8	69	19	19	7	737	61	0	0	5.973	31	3.15	3.15	21
WILBURTON	9634	9	40.2	31	-1.6	70	19	20	6	769	50	0	0	6.180	31	3.19	2.20	20
WISTER	9724	9	41.8	31*	****	69	20	23	18	721	*****	0	*****	5.750	31	*****	2.12	24

DECEMBER 1997 CLIMATE DIVISION SUMMARY

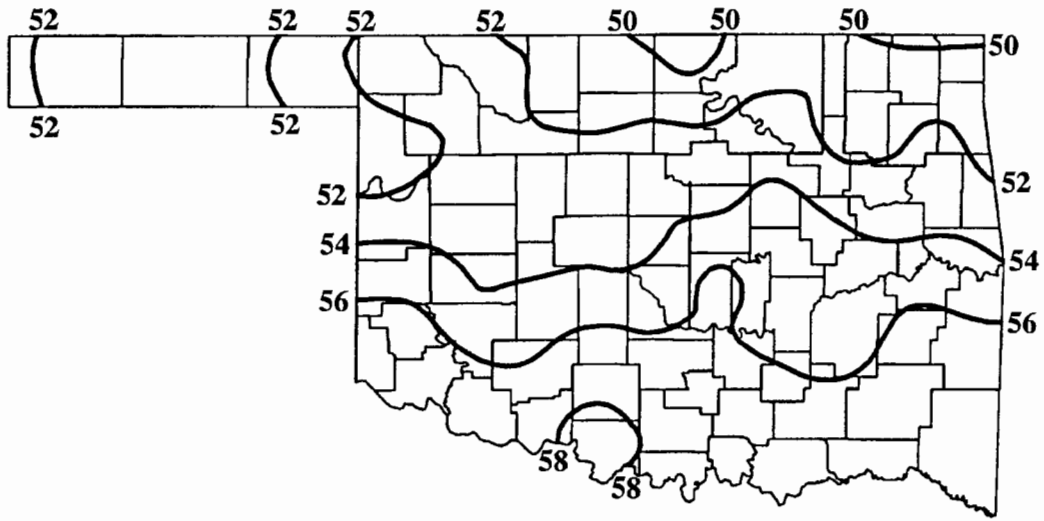
CD	MEAN TEMP	NUM STA	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEG DAYS	DEV FROM NORM	COOL DEG DAYS	DEV FROM NORM	TOT PPT	NUM STA	DEV FROM NORM	MAX 24-HR	DAY
1	33.1	8	-2.1	69	16	4	26	989	64.2	0	0	1.77	12	1.21	1.78	24
2	35.9	12	-0.7	68	16	7	6	901.9	21.9	0	0	3.32	20	2.23	2.13	7
3	38.5	14	0.1	69	20	15	13	815.9	-10.2	0	0	4.03	24	2.04	2.04	24
4	37.5	9	-0.6	67	16	12	13	849.5	14.6	0	0	3.16	17	2.34	1.8	24
5	39.4	16	-0.6	71	19	13	14	791.6	16	0	0	3.85	33	2.3	2	24
6	40	8	-0.8	71	20	17	14	774.4	25.6	0	0	5.16	23	2.58	3.2	24
7	39.1	11	-1.3	71	20	15	13	794.5	34.5	0	0	3.4	18	2.38	2.57	30
8	40.3	9	-2.1	72	1	13	13	766.1	65.6	0	0	5.21	23	3.31	3.08	21
9	40.6	10	-2.7	73	3	15	6	754.8	81.3	0	0	5.84	16	2.32	3.17	21



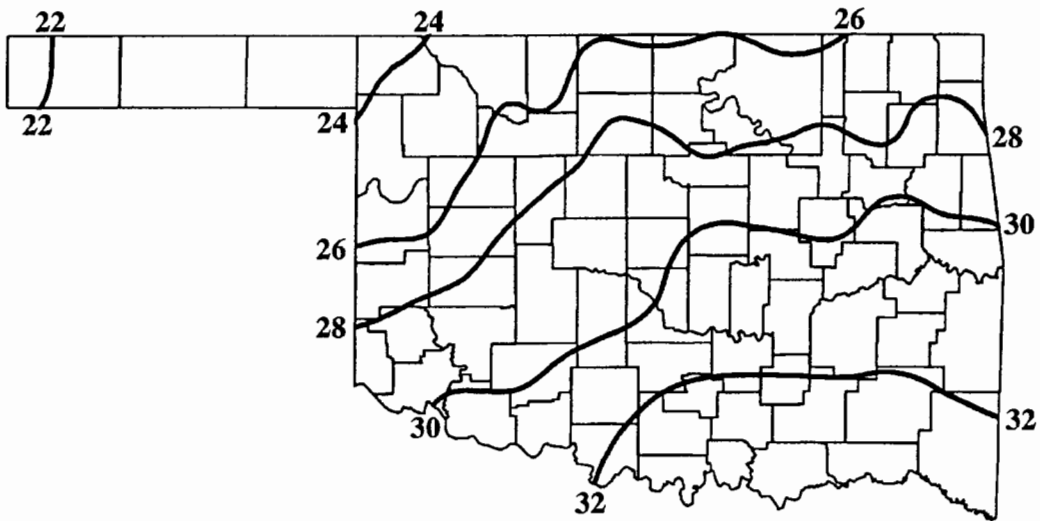
DECEMBER 1997 TOTAL PRECIPITATION
(INCHES)



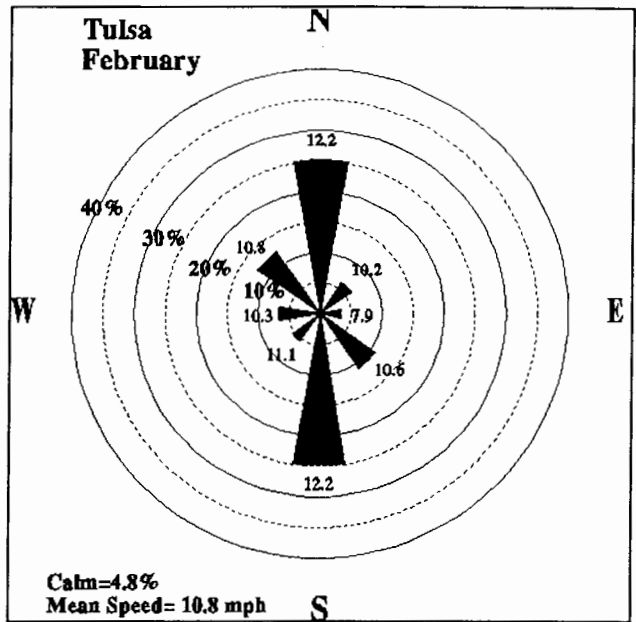
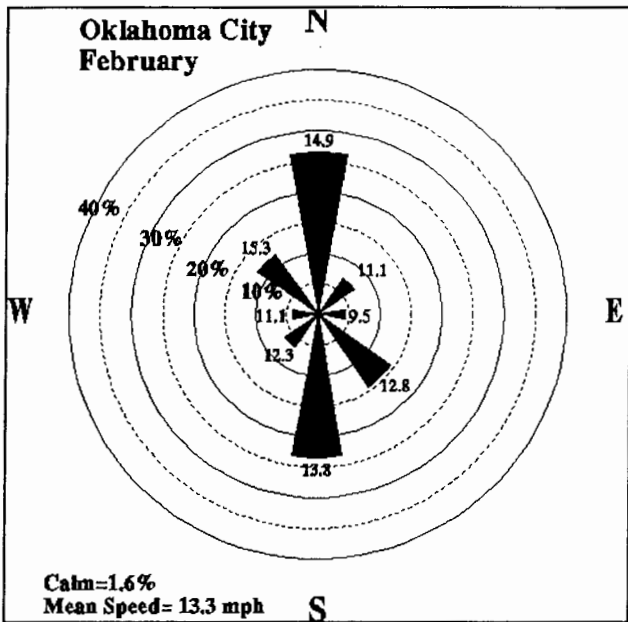
DECEMBER 1997 DEPARTURE FROM NORMAL PRECIPITATION
(INCHES)



FEBRUARY NORMAL DAILY MAXIMUM TEMPERATURE (°F)



FEBRUARY NORMAL DAILY MINIMUM TEMPERATURE (°F)



February Wind Roses for Oklahoma City and Tulsa. The frequency (percent) of winds from each direction is represented by length of its bar. The numbers at the ends of the bars indicate the average wind speed from that direction in miles per hour.

SUNRISE/SUNSET TIMES FOR FEBRUARY 1998

OKLAHOMA CITY			
DATE	SUNRISE	SUNSET	DAYLIGHT
98 2 1	7:30AM	5:58PM cst	10 hrs 28 mins
98 2 2	7:29AM	5:59PM cst	10 hrs 29 mins
98 2 3	7:28AM	6: 0PM cst	10 hrs 31 mins
98 2 4	7:28AM	6: 1PM cst	10 hrs 33 mins
98 2 5	7:27AM	6: 2PM cst	10 hrs 35 mins
98 2 6	7:26AM	6: 3PM cst	10 hrs 36 mins
98 2 7	7:25AM	6: 4PM cst	10 hrs 38 mins
98 2 8	7:24AM	6: 5PM cst	10 hrs 40 mins
98 2 9	7:24AM	6: 6PM cst	10 hrs 42 mins
98 2 10	7:23AM	6: 7PM cst	10 hrs 44 mins
98 2 11	7:22AM	6: 8PM cst	10 hrs 46 mins
98 2 12	7:21AM	6: 9PM cst	10 hrs 48 mins
98 2 13	7:20AM	6:10PM cst	10 hrs 50 mins
98 2 14	7:19AM	6:11PM cst	10 hrs 52 mins
98 2 15	7:18AM	6:12PM cst	10 hrs 54 mins
98 2 16	7:17AM	6:13PM cst	10 hrs 56 mins
98 2 17	7:16AM	6:13PM cst	10 hrs 58 mins
98 2 18	7:15AM	6:14PM cst	11 hrs 0 mins
98 2 19	7:14AM	6:15PM cst	11 hrs 2 mins
98 2 20	7:13AM	6:16PM cst	11 hrs 4 mins
98 2 21	7:11AM	6:17PM cst	11 hrs 6 mins
98 2 22	7:10AM	6:18PM cst	11 hrs 8 mins
98 2 23	7: 9AM	6:19PM cst	11 hrs 10 mins
98 2 24	7: 8AM	6:20PM cst	11 hrs 12 mins
98 2 25	7: 7AM	6:21PM cst	11 hrs 14 mins
98 2 26	7: 5AM	6:22PM cst	11 hrs 16 mins
98 2 27	7: 4AM	6:23PM cst	11 hrs 19 mins
98 2 28	7: 3AM	6:24PM cst	11 hrs 21 mins

TULSA			
DATE	SUNRISE	SUNSET	DAYLIGHT
98 2 1	7:25AM	5:49PM cst	10 hrs 25 mins
98 2 2	7:24AM	5:50PM cst	10 hrs 27 mins
98 2 3	7:23AM	5:51PM cst	10 hrs 28 mins
98 2 4	7:22AM	5:52PM cst	10 hrs 30 mins
98 2 5	7:21AM	5:53PM cst	10 hrs 32 mins
98 2 6	7:21AM	5:54PM cst	10 hrs 34 mins
98 2 7	7:20AM	5:55PM cst	10 hrs 36 mins
98 2 8	7:19AM	5:56PM cst	10 hrs 38 mins
98 2 9	7:18AM	5:58PM cst	10 hrs 40 mins
98 2 10	7:17AM	5:59PM cst	10 hrs 41 mins
98 2 11	7:16AM	6: 0PM cst	10 hrs 43 mins
98 2 12	7:15AM	6: 1PM cst	10 hrs 45 mins
98 2 13	7:14AM	6: 2PM cst	10 hrs 47 mins
98 2 14	7:13AM	6: 3PM cst	10 hrs 49 mins
98 2 15	7:12AM	6: 4PM cst	10 hrs 51 mins
98 2 16	7:11AM	6: 5PM cst	10 hrs 54 mins
98 2 17	7:10AM	6: 6PM cst	10 hrs 56 mins
98 2 18	7: 9AM	6: 7PM cst	10 hrs 58 mins
98 2 19	7: 8AM	6: 8PM cst	11 hrs 0 mins
98 2 20	7: 7AM	6: 9PM cst	11 hrs 2 mins
98 2 21	7: 5AM	6:10PM cst	11 hrs 4 mins
98 2 22	7: 4AM	6:11PM cst	11 hrs 6 mins
98 2 23	7: 3AM	6:11PM cst	11 hrs 8 mins
98 2 24	7: 2AM	6:12PM cst	11 hrs 11 mins
98 2 25	7: 1AM	6:13PM cst	11 hrs 13 mins
98 2 26	6:59AM	6:14PM cst	11 hrs 15 mins
98 2 27	6:58AM	6:15PM cst	11 hrs 17 mins
98 2 28	6:57AM	6:16PM cst	11 hrs 19 mins

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.

TULSA CLIMATE CALENDAR

FEBRUARY

The data on this calendar are for Tulsa. Normal values are calculated for the period 1948-1991. Temperature extremes are for the period 1905-1996; precipitation extremes are for the period 1948-1996.

Normal 46.0 26.0 .03 28 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 73-1910 13-1974 0-1929 54-1907 50-1965	Normal 47.0 27.0 .06 28 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 76-1997 25-1979 2-1911 56-1997 60-1951	Normal 46.0 24.0 .11 30 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 76-1997 14-1959 2-1919 59-1997 1-12-1971	Normal 44.0 25.0 .09 30 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 70-1966 12-1959 -8-1947 63-1955 82-1993	Normal 46.0 25.0 .02 29 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 73-1964 19-1987 -7-1947 48-1992 50-1962	Normal 46.0 25.0 .01 29 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 69-1997 20-1979 0-1912 47-1995 61-1998	Normal 44.0 24.0 .01 31 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 77-1995 15-1968 6-1912 46-1965 17-1973
Normal 47.0 24.0 .03 29 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 71-1929 17-1970 6-1968 46-1964 76-1997	Normal 44.0 24.0 .06 31 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 66-1999 10-1977 0-1977 45-1990 67-1977	Normal 42.0 22.0 .02 33 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 76-1990 19-1962 5-1977 45-1960 30-1949	Normal 44.0 22.0 .01 32 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 80-1911 21-1973 -6-1977 43-1960 17-1949	Normal 45.0 25.0 .02 30 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 73-1960 11-1963 -13-1918 67-1960 42-1990	Normal 47.0 25.0 .02 29 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 75-1997 23-1992 -12-191 51-1959 41-1951	Normal 48.0 25.0 .03 28 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 76-1992 13-1979 4-1916 51-1963 54-1991
Normal 48.0 25.0 .03 28 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 69-1990 18-1972 0-1905 53-1990 76-1949	Normal 44.0 24.0 .03 31 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 78-1998 16-1977 1-1930 59-1990 66-1990	Normal 44.0 25.0 .04 30 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 73-1962 11-1979 -3-1930 55-1973 45-1964	Normal 44.0 25.0 .10 30 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 72-1951 13-1970 -14-1990 48-1972 88-1968	Normal 43.0 25.0 .08 31 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 75-1951 14-1970 -5-1943 48-1964 186-1990	Normal 44.0 25.0 .04 30 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 77-1998 15-1984 -3-1995 45-1979 61-1969	Normal 45.0 25.0 .07 29 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 76-1997 16-1979 1-1978 57-1967 56-1973
Normal 54.0 31.0 .14 22 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 90-1996 28-1966 11-1963 67-1995 299-1995	Normal 55.0 33.0 .07 21 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 81-1992 52-1975 10-1910 61-1992 140-1990	Normal 53.0 32.0 .07 22 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 84-1918 24-1965 8-1965 46-1977 90-1992	Normal 57.0 33.0 .02 20 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 82-1917 31-1960 10-1965 62-1961 90-1999	Normal 58.0 34.0 .07 19 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 79-1996 30-1960 11-1960 61-1966 128-1994	Normal 58.0 35.0 .16 19 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 81-1976 28-1992 19-1962 66-1991 1-12-1960	Normal 56.0 35.0 .08 19 0 Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	Actual 82-1972 22-1992 6-1962 53-1978 200-1997

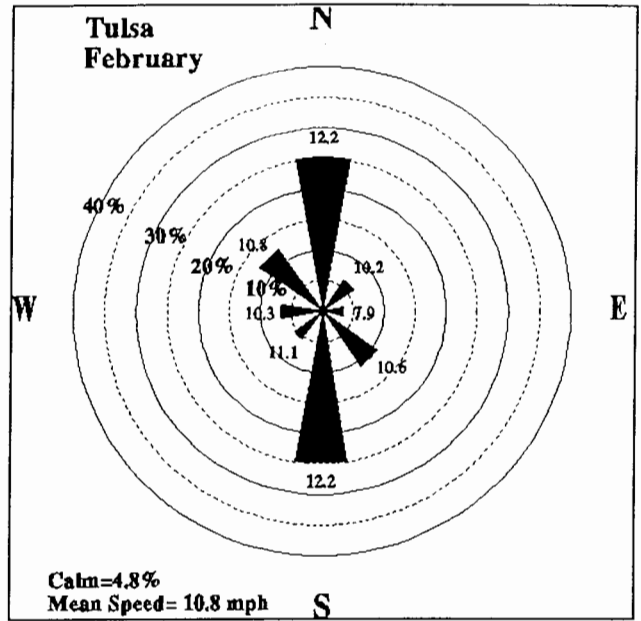
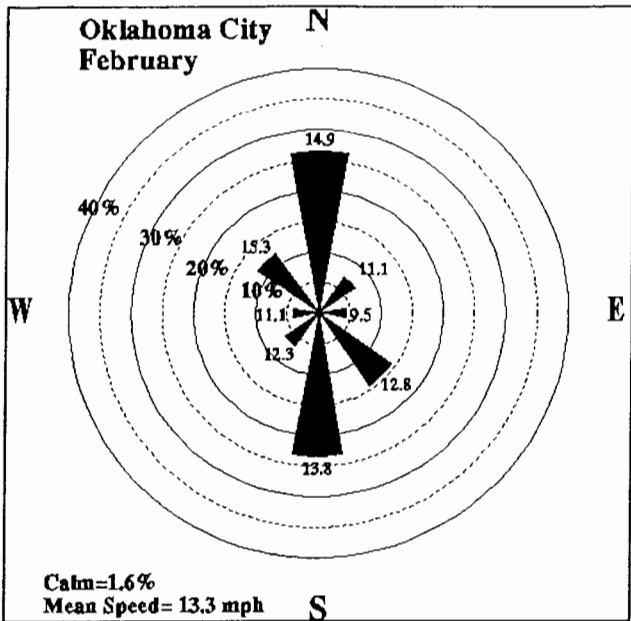
FEBRUARY AVERAGES

TEMPERATURE : 40.9°F

PRECIPITATION : 1.93"

HEATING DEGREE DAYS : 667

COOLING DEGREE DAYS : 0



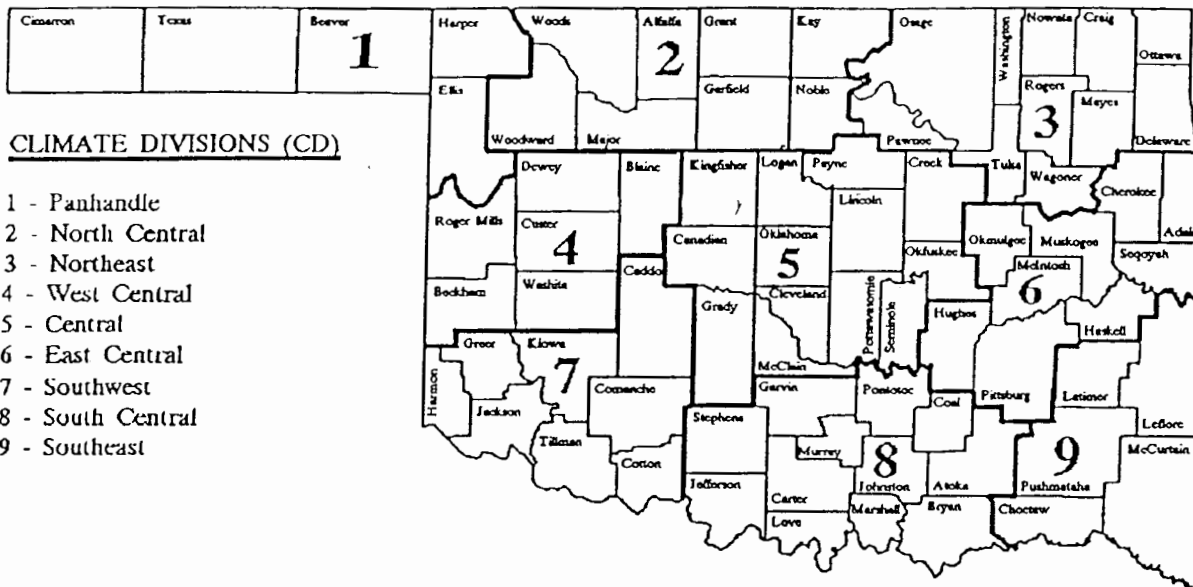
February Wind Roses for Oklahoma City and Tulsa. The frequency (percent) of winds from each direction is represented by length of its bar. The numbers at the ends of the bars indicate the average wind speed from that direction in miles per hour.

SUNRISE/SUNSET TIMES FOR FEBRUARY 1998

OKLAHOMA CITY			
DATE	SUNRISE	SUNSET	DAYLIGHT
98 2 1	7:30AM	5:58PM cst	10 hrs 28 mins
98 2 2	7:29AM	5:59PM cst	10 hrs 29 mins
98 2 3	7:28AM	6: 0PM cst	10 hrs 31 mins
98 2 4	7:28AM	6: 1PM cst	10 hrs 33 mins
98 2 5	7:27AM	6: 2PM cst	10 hrs 35 mins
98 2 6	7:26AM	6: 3PM cst	10 hrs 36 mins
98 2 7	7:25AM	6: 4PM cst	10 hrs 38 mins
98 2 8	7:24AM	6: 5PM cst	10 hrs 40 mins
98 2 9	7:24AM	6: 6PM cst	10 hrs 42 mins
98 2 10	7:23AM	6: 7PM cst	10 hrs 44 mins
98 2 11	7:22AM	6: 8PM cst	10 hrs 46 mins
98 2 12	7:21AM	6: 9PM cst	10 hrs 48 mins
98 2 13	7:20AM	6:10PM cst	10 hrs 50 mins
98 2 14	7:19AM	6:11PM cst	10 hrs 52 mins
98 2 15	7:18AM	6:12PM cst	10 hrs 54 mins
98 2 16	7:17AM	6:13PM cst	10 hrs 56 mins
98 2 17	7:16AM	6:13PM cst	10 hrs 58 mins
98 2 18	7:15AM	6:14PM cst	11 hrs 0 mins
98 2 19	7:14AM	6:15PM cst	11 hrs 2 mins
98 2 20	7:13AM	6:16PM cst	11 hrs 4 mins
98 2 21	7:11AM	6:17PM cst	11 hrs 6 mins
98 2 22	7:10AM	6:18PM cst	11 hrs 8 mins
98 2 23	7: 9AM	6:19PM cst	11 hrs 10 mins
98 2 24	7: 8AM	6:20PM cst	11 hrs 12 mins
98 2 25	7: 7AM	6:21PM cst	11 hrs 14 mins
98 2 26	7: 5AM	6:22PM cst	11 hrs 16 mins
98 2 27	7: 4AM	6:23PM cst	11 hrs 19 mins
98 2 28	7: 3AM	6:24PM cst	11 hrs 21 mins

TULSA			
DATE	SUNRISE	SUNSET	DAYLIGHT
98 2 1	7:25AM	5:49PM cst	10 hrs 25 mins
98 2 2	7:24AM	5:50PM cst	10 hrs 27 mins
98 2 3	7:23AM	5:51PM cst	10 hrs 28 mins
98 2 4	7:22AM	5:52PM cst	10 hrs 30 mins
98 2 5	7:21AM	5:53PM cst	10 hrs 32 mins
98 2 6	7:21AM	5:54PM cst	10 hrs 34 mins
98 2 7	7:20AM	5:55PM cst	10 hrs 36 mins
98 2 8	7:19AM	5:56PM cst	10 hrs 38 mins
98 2 9	7:18AM	5:58PM cst	10 hrs 40 mins
98 2 10	7:17AM	5:59PM cst	10 hrs 41 mins
98 2 11	7:16AM	6: 0PM cst	10 hrs 43 mins
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98 2 13	7:14AM	6: 2PM cst	10 hrs 47 mins
98 2 14	7:13AM	6: 3PM cst	10 hrs 49 mins
98 2 15	7:12AM	6: 4PM cst	10 hrs 51 mins
98 2 16	7:11AM	6: 5PM cst	10 hrs 54 mins
98 2 17	7:10AM	6: 6PM cst	10 hrs 56 mins
98 2 18	7: 9AM	6: 7PM cst	10 hrs 58 mins
98 2 19	7: 8AM	6: 8PM cst	11 hrs 0 mins
98 2 20	7: 7AM	6: 9PM cst	11 hrs 2 mins
98 2 21	7: 5AM	6:10PM cst	11 hrs 4 mins
98 2 22	7: 4AM	6:11PM cst	11 hrs 6 mins
98 2 23	7: 3AM	6:11PM cst	11 hrs 8 mins
98 2 24	7: 2AM	6:12PM cst	11 hrs 11 mins
98 2 25	7: 1AM	6:13PM cst	11 hrs 13 mins
98 2 26	6:59AM	6:14PM cst	11 hrs 15 mins
98 2 27	6:58AM	6:15PM cst	11 hrs 17 mins
98 2 28	6:57AM	6:16PM cst	11 hrs 19 mins

- 18 -
OKLAHOMA



CLIMATE DIVISIONS (CD)

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

EXPLANATION OF TABLES

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

- Station Name:
- Station Identification Number: These are usually assigned by the National Climatic Data Center.
- Climate Division: See the figure above.
- Number of Temperature Observations: These are the actual number of temperature reports recorded at the station during the current month. Missing observations may result in artificially high or low mean monthly temperatures.
- Deviation from Normal: The deviation of the observed mean monthly temperature from the monthly station normal. A positive value indicates the month was warmer than normal. A negative value indicates the month was cooler than normal. Normal monthly temperatures may be calculated by subtracting the deviation from the observed temperature.
- Maximum Daily Maximum: The maximum daily maximum temperature observed during the current month and year and the day which it occurred.
- Minimum Daily Minimum: The minimum daily minimum temperature observed during the current month and year and the day which it occurred.
- Heating Degree Days: HDD are calculated each day of the month for which there is a temperature report and the average temperature for the day is less than 65 degrees. Daily values are summed to arrive at a monthly total. They are a qualitative measure of how much heat was required to maintain a comfortable indoor temperature. Missing observations may result in an artificially high or low value. For February 1984 HDD would be calculated as:

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

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

Cooling Degree Days: CDD are calculated each day of the month for which there is a temperature report and the average temperature for the day exceeds 65 degrees. Daily values are summed to give a monthly total. 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.

TULSA CLIMATE CALENDAR

FEBRUARY

The data on this calendar are for Tulsa. Normal values are calculated for the period 1948-1991. Temperature extremes are for the period 1905-1996; precipitation extremes are for the period 1948-1996.

Normal 1 46.0 max 26.0 min .03 ppt 28 cdd 0	Actual 79-1910	Normal 2 47.0 max 27.0 min .06 ppt 28 cdd 0	Actual 19-1974	Normal 3 46.0 max 24.0 min .11 ppt 30 cdd 0	Actual 25-1979	Normal 4 44.0 max 25.0 min .03 ppt 30 cdd 0	Actual 14-1950	Normal 5 46.0 max 25.0 min .02 ppt 29 cdd 0	Actual 19-1987	Normal 6 46.0 max 25.0 min .01 ppt 29 cdd 0	Actual 20-1979	Normal 7 44.0 max 24.0 min .03 ppt 31 cdd 0	Actual 15-1968
Highest Max Lowest Max Highest Min Lowest Min Greatest ppt	79-1910 19-1974 0-1928 54-1997 50-1966	Highest Max Lowest Max Highest Min Lowest Min Greatest ppt	19-1974 25-1979 2-1911 59-1997 90-1951	Highest Max Lowest Max Highest Min Lowest Min Greatest ppt	25-1979 14-1950 -2-1919 59-1997 1-12-1971	Highest Max Lowest Max Highest Min Lowest Min Greatest ppt	14-1950 8-1947 -8-1947 63-1955 82-1963	Highest Max Lowest Max Highest Min Lowest Min Greatest ppt	19-1987 -7-1947 48-1992 50-1982	Highest Max Lowest Max Highest Min Lowest Min Greatest ppt	20-1979 0-1912 47-1985 61-1998	Highest Max Lowest Max Highest Min Lowest Min Greatest ppt	15-1968 -6-1912 48-1965 17-1973
Normal 8 47.0 max 24.0 min .03 ppt 29 cdd 0	Actual 71-1923	Normal 9 44.0 max 24.0 min .06 ppt 31 cdd 0	Actual 10-1977	Normal 10 42.0 max 22.0 min .02 ppt 38 cdd 0	Actual 76-1990	Normal 11 44.0 max 22.0 min .01 ppt 32 cdd 0	Actual 21-1973	Normal 12 45.0 max 25.0 min .02 ppt 30 cdd 0	Actual 11-1983	Normal 13 47.0 max 25.0 min .02 ppt 29 cdd 0	Actual 75-1907	Normal 14 48.0 max 27.0 min .05 ppt 27 cdd 0	Actual 76-1992
Highest Max Lowest Max Highest Min Lowest Min Greatest ppt	71-1923 17-1970 -5-1968 46-1964 79-1987	Highest Max Lowest Max Highest Min Lowest Min Greatest ppt	10-1977 0-1977 45-1990 57-1977	Highest Max Lowest Max Highest Min Lowest Min Greatest ppt	76-1990 13-1962 -5-1977 46-1960 90-1949	Highest Max Lowest Max Highest Min Lowest Min Greatest ppt	21-1973 -6-1977 -13-1918 57-1960 42-1966	Highest Max Lowest Max Highest Min Lowest Min Greatest ppt	11-1983 -12-191 61-1950 41-1951	Highest Max Lowest Max Highest Min Lowest Min Greatest ppt	75-1907 23-1992 -12-191 -4-1916 61-1963	Highest Max Lowest Max Highest Min Lowest Min Greatest ppt	76-1992 13-1979 -4-1916 61-1963 24-1991
Normal 15 48.0 max 25.0 min .03 ppt 28 cdd 0	Actual 69-1990	Normal 16 44.0 max 24.0 min .03 ppt 31 cdd 0	Actual 10-1977	Normal 17 44.0 max 25.0 min .04 ppt 30 cdd 0	Actual 73-1992	Normal 18 44.0 max 25.0 min .10 ppt 30 cdd 0	Actual 13-1970	Normal 19 43.0 max 26.0 min .08 ppt 31 cdd 0	Actual 14-1970	Normal 20 44.0 max 26.0 min .04 ppt 30 cdd 0	Actual 77-1998	Normal 21 45.0 max 26.0 min .07 ppt 29 cdd 0	Actual 76-1997
Highest Max Lowest Max Highest Min Lowest Min Greatest ppt	69-1990 18-1972 0-1906 53-1990 76-1949	Highest Max Lowest Max Highest Min Lowest Min Greatest ppt	10-1977 1-1990 59-1990 55-1990	Highest Max Lowest Max Highest Min Lowest Min Greatest ppt	73-1992 11-1978 -3-1930 55-1973 46-1984	Highest Max Lowest Max Highest Min Lowest Min Greatest ppt	13-1970 -14-1990 49-1972 88-1968	Highest Max Lowest Max Highest Min Lowest Min Greatest ppt	14-1970 -5-1943 48-1964 186-1990	Highest Max Lowest Max Highest Min Lowest Min Greatest ppt	77-1998 15-1994 -3-1965 45-1973 61-1968	Highest Max Lowest Max Highest Min Lowest Min Greatest ppt	76-1997 16-1970 -1-1918 57-1957 55-1973
Normal 22 54.0 max 31.0 min .14 ppt 22 cdd 0	Actual 90-1996	Normal 23 55.0 max 33.0 min .07 ppt 21 cdd 0	Actual 81-1992	Normal 24 53.0 max 32.0 min .07 ppt 22 cdd 0	Actual 86-1918	Normal 25 57.0 max 33.0 min .02 ppt 20 cdd 0	Actual 31-1960	Normal 26 58.0 max 34.0 min .07 ppt 19 cdd 0	Actual 30-1960	Normal 27 58.0 max 35.0 min .10 ppt 19 cdd 0	Actual 81-1976	Normal 28 58.0 max 35.0 min .08 ppt 19 cdd 0	Actual 82-1972
Highest Max Lowest Max Highest Min Lowest Min Greatest ppt	90-1996 28-1968 11-1963 67-1986 239-1986	Highest Max Lowest Max Highest Min Lowest Min Greatest ppt	81-1992 32-1975 10-1910 61-1992 140-1986	Highest Max Lowest Max Highest Min Lowest Min Greatest ppt	86-1918 24-1965 8-1965 46-1977 80-1992	Highest Max Lowest Max Highest Min Lowest Min Greatest ppt	31-1960 16-1966 62-1961 98-1993	Highest Max Lowest Max Highest Min Lowest Min Greatest ppt	30-1960 11-1960 61-1996 126-1964	Highest Max Lowest Max Highest Min Lowest Min Greatest ppt	81-1976 28-1992 13-1962 59-1991 142-1990	Highest Max Lowest Max Highest Min Lowest Min Greatest ppt	82-1972 22-1982 6-1962 63-1976 200-1997

FEBRUARY AVERAGES

TEMPERATURE : 40.8°F

PRECIPITATION : 1.93"

HEATING DEGREE DAYS : 667

COOLING DEGREE DAYS : 0