

**REVISED
OKLAHOMA
MONTHLY SUMMARY
AUGUST 1998**

TABLE OF CONTENTS

August 1998 Oklahoma Summary.....	2
Table of August 1997/1998 Comparisons.....	5
August 1998 Data Summary Tables.....	6
August 1998 Mesonet Summary.....	11
August 1998 State Map Summary.....	12
August Climatological Normals.....	15
90 - Day National Weather Service Outlook.....	16
October Wind Roses - October 1998 Sunrise/Sunset Tables.....	17
Explanation of Tables.....	18
October Oklahoma City Climate Calendar.....	20
October Tulsa Climate Calendar.....	21

MONTHLY SUMMARY FOR AUGUST 1998

Oklahoma's hot, dry summer of 1998 continued through August. The statewide-averaged daily temperature was 82.9 degrees, exceeding the normal for the month by 2.1 degrees, ranking this as the 29th warmest August in the state since 1892. Total monthly precipitation, averaged across the state, was a mere 1.47 inches, 1.35 inches less than normal and 14th lowest of the 107 years on record. The summer of 1998 thus ranks as the 8th hottest and 9th driest summer in state history. The summer temperature averaged 83.2 degrees (3.2 degrees higher than normal), accompanied by 5.78 inches of rain (3.61 inches less than normal).

Year-to-date statistics portray 1998 as having had the 19th warmest (average temperature of 64.0 degrees, 1.5 degrees higher than normal) and 36th driest (21.49 inches, 1.65 inches less than normal) January through August ever recorded in the state. Statewide-averaged precipitation from the beginning of April through the end of August has totaled only 11.01 inches, 4.98 inches less than normal and the 4th driest such period yet recorded.

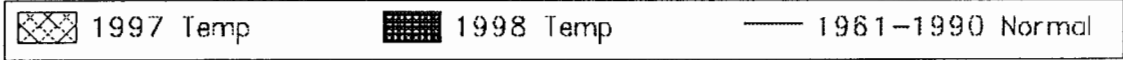
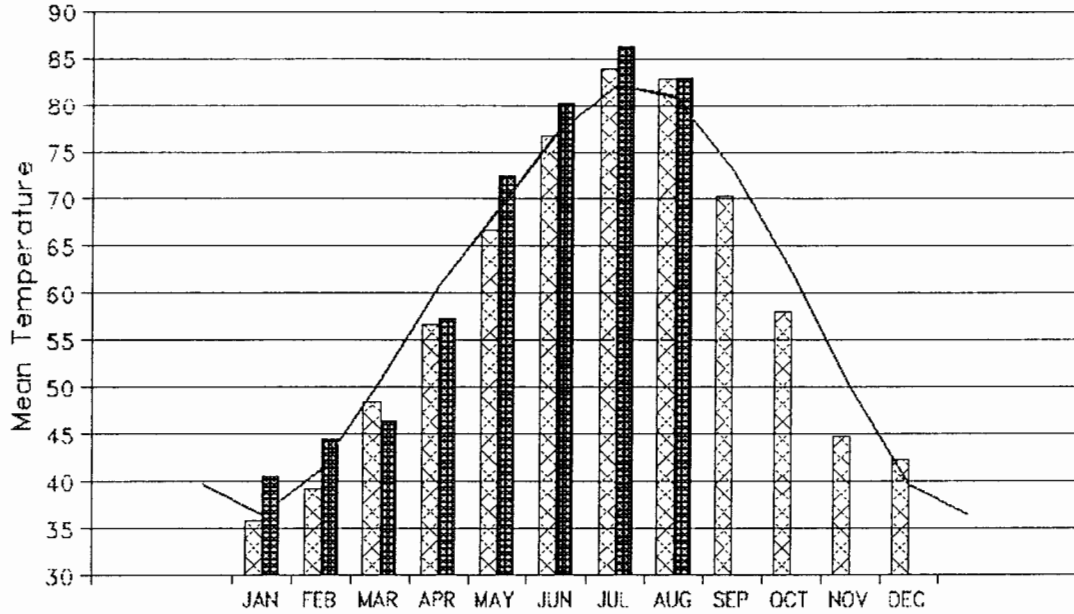
None of the state's nine climate divisions reported normal or greater rainfall during the month. Scattered areas did receive significant rainfall, enough to ease, but certainly not break, the drought that has prevailed over most of the state since April. There were nine reports of daily rainfall in excess of two inches during the month, including 2.25 inches at Boise City (Cimarron County) reported on the 11th with the others all in the eastern third of the state: 2.28 inches at the Jay Mesonet site (Delaware) on the 4th, 2.53 inches at Hollow (Craig) on the 5th, 2.29 inches at Pryor Mesonet (Mayes) on the 9th, another 2.08 inches at Hollow on the 10th, 2.05 inches at Clayton (Pushmataha) and 2.20 inches at Webbers Falls Mesonet (Muskogee) on the 13th, and 2.63 inches at Short (Sequoyah) on the 14th.

According to the calendar-day temperature readings obtained through the Oklahoma Mesonet, there were only two days (the 4th and the 13th) in which temperatures failed to reach 95 degrees. The highest recorded temperature in the state was 94 degrees on each of those days. Daytime temperatures reached at least 100 degrees or at one or more Mesonet sites on 24 days during the month, including each of August's last 17 days. There were five days on which every recorded daily maximum temperature in the state was 90 degrees or higher.

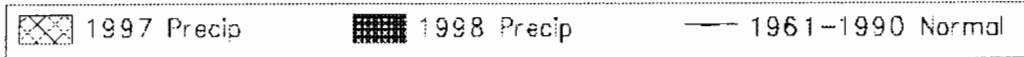
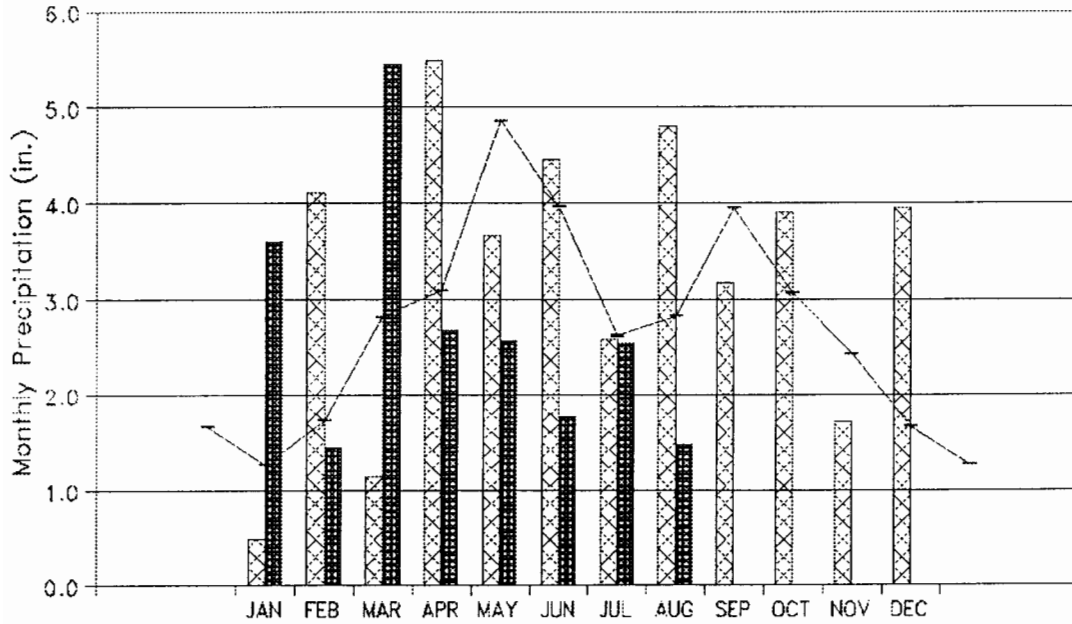
There were a few reports of severe weather including thunderstorm winds of 77 miles per hour recorded at the Hobart (Kiowa) Mesonet site on the 10th and 73 miles per hour at Hugo Mesonet (Choctaw) on the 3rd. One-inch hailstones were reported in Woodward County on the 10th, in Roger Mills County on the 15th, and in Pushmataha County on the 30th. A woman was struck and killed by lightning in Wagoner County on the 9th.

Howard L. Johnson

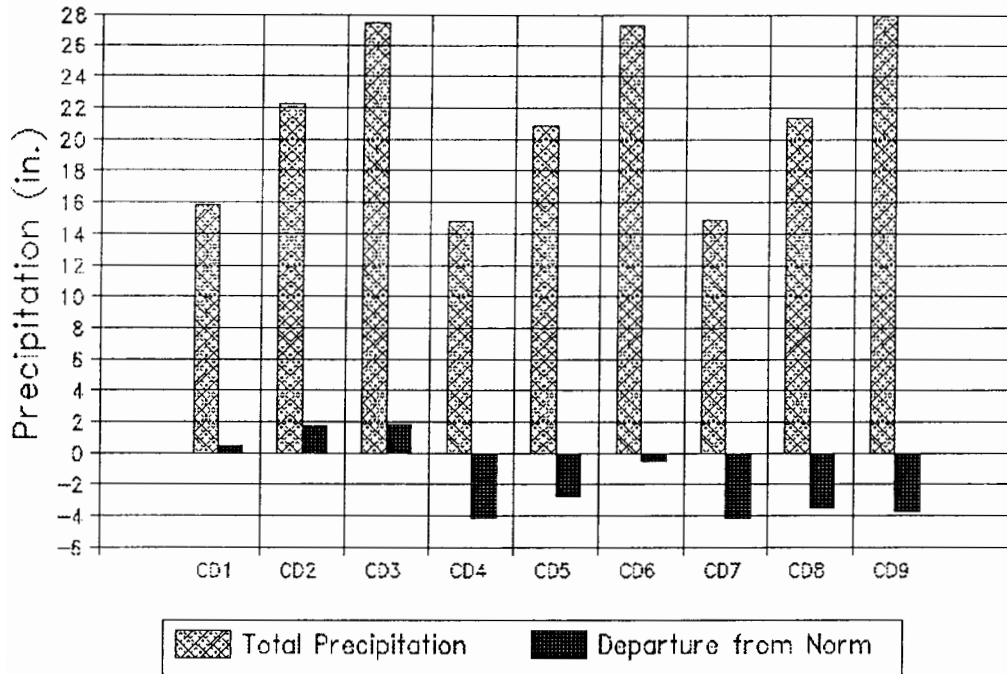
1997 and 1998 STATEWIDE TEMPERATURES Monthly Averages



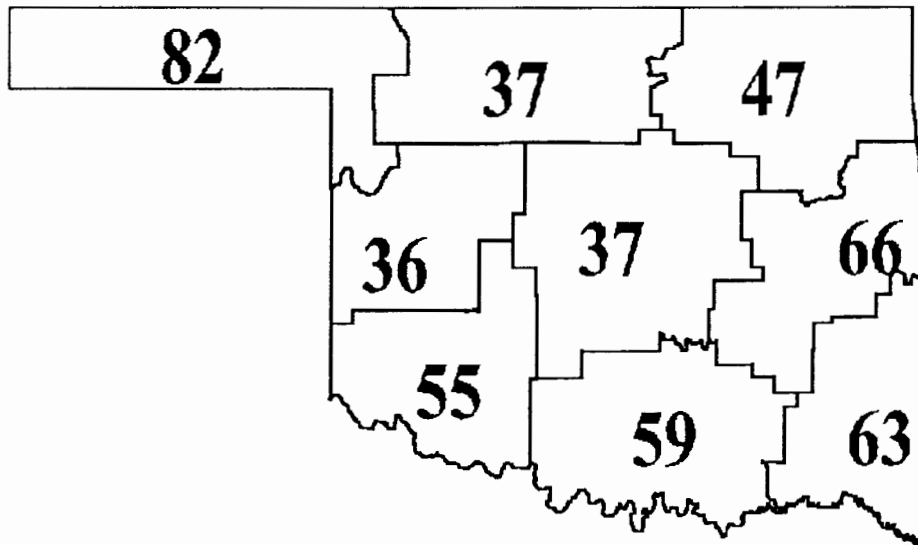
1997 and 1998 STATEWIDE PRECIPITATION Monthly Totals



CD Averaged Precipitation
January through August 1998



CD PERCENT OF NORMAL PRECIPITATION
AUGUST 1998



AUGUST 1998 SUMMARY FOR PANHANDLE DIVISION (CD1)

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
ARNETT	332	1	78.9	31	0.3	101	10	59	13	0	0	430	8	1.270	31	-1.14	0.97	28
BEAVER	593	1	77.7	31	-0.9	99	28	56	30	0	0	393	-30	2.370	31	-0.58	1.00	4
BOISE CITY	908	1	74.3	31	-1.2	94	29	54	6	0	0	289	-37	4.623	31	2.17	2.25	11
BUFFALO	1243	1	82.4	31	1.1	106	27	59	31	0	0	539	34	1.710	31	-1.75	0.85	12
FARGO	3070	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.981	31	-1.73	0.98	28
GAGE	3407	1	78.4	30	-1.7	102	9	54	7	0	0	402	-67	2.414	30	*****	1.20	28
GATE	3489	1	78.7	31	-1	99	28	61	31	0	0	425	-32	2.462	31	-0.42	0.80	28
GOODWELL	3628	1	77.4	30	1	100	25	56	31	0	0	374	21	3.090	31	0.93	1.55	26
GUYMON	3835	1	77.0	31	*****	98	28	57	31	0	*****	373	*****	2.363	31	*****	0.72	4
HOOKER	4298	1	78.4	31	0.7	100	27	60	31	0	0	417	23	0.750	31	-1.56	0.35	4
KENTON	4766	1	73.8	26	*****	97	25	54	31	0	*****	228	*****	3.252	29	*****	1.16	5
LAVERNE	5045	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.311	31	-0.55	1.20	28
RANGE	7412	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.932	31	*****	0.41	11
REGNIER	7534	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.880	31	1.00	0.84	26
TURPIN	9017	1	77.2	26	*****	98	27	57	31	0	*****	318	*****	1.670	27	*****	0.76	11

AUGUST 1998 SUMMARY FOR NORTH CENTRAL DIVISION (CD2)

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
ALVA	193	2	82.4	31	*****	107	10	61	7	0	*****	538	*****	2.241	31	*****	1.42	13
VANCE AFB	302	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.663	31	*****	0.75	8
BILLINGS	755	2	82.3	31	1.3	106	10	58	31	0	0	536	40	0.461	31	-2.67	0.28	12
BLACKWELL 2E	818	2	82.3	31	1.2	105	10	62	8	0	0	537	38	0.482	31	-2.71	0.43	13
BRAMAN	1075	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.300	31	*****	1.24	13
CEDARDALE	1620	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.440	31	*****	0.71	28
CHEROKEE	1724	2	82.3	31	0.1	105	10	60	8	0	0	536	3	1.330	31	-1.69	1.10	13
ENID	2912	2	83.3	29	*****	105	10	63	7	0	*****	530	*****	0.170	29	*****	0.08	10
FT SUPPLY	3304	2	78.6	30	-0.5	101	27	54	31	0	0	407	-31	2.092	31	-0.73	1.04	4
FREEDOM	3358	2	80.8	29	*****	104	28	57	7	0	*****	458	*****	0.350	29	*****	0.28	28
GREAT SALT P	3740	2	82.8	31	1.9	105	10	61	7	0	0	553	60	1.521	31	-1.75	1.33	13
HARDY	3909	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.061	31	*****	0.06	28
HELENA	4019	2	81.9	31	1.6	104	10	60	7	0	0	524	50	1.520	31	-1.24	1.14	12
JEFFERSON	4573	2	82.2	26	*****	107	9	57	7	0	*****	448	*****	1.651	28	*****	0.93	11
LAMONT	5013	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.900	31	*****	0.83	13
MEDFORD	5768	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.650	31	*****	0.28	11
MORRISON	6065	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.840	31	*****	1.20	12
MUTUAL	6139	2	80.5	31	0.5	107	10	60	30	0	0	480	15	0.910	31	-1.29	0.72	28
NEWKIRK	6278	2	81.9	31	1	102	26	62	30	0	0	523	30	0.070	31	-3.38	0.05	13
ORIENTA	6751	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.121	31	-2.62	0.12	13
PERRY	7012	2	85.7	23	*****	105	26	64	30	0	*****	476	*****	0.851	25	*****	0.46	5
PONCA CITY	7201	2	84.6	28	*****	103	27	61	7	0	*****	548	*****	0.562	28	*****	0.38	28
RED ROCK	7505	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.221	31	-2.61	0.20	13
WAYNOKA	9404	2	82.1	31	0.7	107	9	55	29	0	0	530	22	0.351	31	-2.57	0.20	27
WOODWARD	9760	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.320	31	-0.59	1.40	13

AUGUST 1998 SUMMARY FOR NORTHEAST DIVISION (CD3)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV		MIN DAY	TEMP DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV		DAY	
					FROM NORM	MAX TEMP									FROM NORM	MAX 24-HR		
BARNSDALL	535	3	83.2	31	2.5	105	25	59	30	0	0	565	78	1.105	31	-2.35	0.58	14
BARTLESVILLE	548	3	83.0	31	2.5	103	27	60	30	0	0	559	78	0.451	31	-2.70	0.17	29
BIXBY	782	3	83.7	30	4.4	107	4	63	30	0	0	560	117	1.190	30	*****	1.00	8
BURBANK	1256	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.003	31	-3.41	0.00	26
CHELSEA	1717	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.010	31	*****	0.96	10
CLAREMORE	1828	3	82.1	31	2.4	104	3	61	8	0	0	529	73	2.020	31	-1.05	0.70	11
CLEVELAND 2	1902	3	81.8	29	*****	102	2	61	31	0	*****	487	*****	1.080	30	*****	0.45	12
FORAKER	3250	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.050	31	-3.41	0.05	3
HOLLOW	4258	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.661	31	2.45	2.53	5
HOMINY	4289	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.262	31	-2.02	1.14	13
KANSAS	4672	3	81.9	29	*****	100	25	63	7	0	*****	491	*****	1.833	29	*****	0.58	14
LENAPAH	5118	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.260	31	*****	0.70	27
MANNFORD	5522	3	83.5	31	2.7	106	3	57	11	0	0	574	84	1.030	31	-2.25	0.68	13
MARAMEC	5540	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.402	31	-2.78	0.40	12
PAWHUSKA	6935	3	82.7	31	2.5	103	27	60	30	0	0	550	79	0.050	31	-3.53	0.03	13
PAWNEE	6940	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.550	31	-1.66	0.48	12
PRYOR	7309	3	81.8	31	2.6	103	3	62	8	0	0	521	81	2.712	31	-0.56	0.95	10
RALSTON	7390	3	83.1	31	2.6	104	2	60	30	0	0	561	80	0.480	31	-2.83	0.35	27
SKIATOOK	8258	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.770	31	-1.39	0.70	9
SPAVINAW	8380	3	84.0	31	3.2	102	26	66	7	0	0	591	101	2.360	31	-1.55	0.88	10
TULSA	8992	3	84.1	31	2.6	106	2	64	7	0	0	591	79	1.674	31	-1.45	0.72	4
UPPER SPAV	9101	3	82.0	31	*****	103	27	64	31	0	*****	529	*****	2.560	31	*****	0.68	5
VINITA	9203	3	81.3	30	2.3	102	2	59	31	0	0	490	56	1.740	31	-2.04	0.77	10
WAGONER	9247	3	84.5	31	3.7	107	2	63	7	0	0	604	114	1.970	31	-1.06	0.82	13
WANN	9298	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.684	31	*****	0.58	27
WYNONA	9792	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.363	31	*****	0.12	12

AUGUST 1998 SUMMARY FOR WEST CENTRAL DIVISION (CD4)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV		MIN DAY	TEMP DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV		DAY	
					FROM NORM	MAX TEMP									FROM NORM	MAX 24-HR		
CANTON DAM	1445	4	81.3	27	*****	105	10	59	30	0	*****	441	*****	0.890	28	*****	0.39	28
CLINTON	1909	4	82.9	31	0.5	104	9	60	29	0	0	555	16	1.320	31	-1.85	0.67	5
COLONY	2039	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.661	31	*****	0.37	3
CORDELL	2125	4	82.7	31	1.2	103	11	59	30	0	0	550	38	0.880	31	-2.20	0.35	28
ELK CITY	2849	4	81.0	31	0.9	103	10	62	29	0	0	498	30	0.810	31	-2.07	0.53	5
ERICK	2944	4	81.2	31	1.1	103	10	59	30	0	0	503	35	1.851	31	-0.66	0.84	5
GEARY	3497	4	79.9	25	*****	98	10	65	30	0	*****	372	*****	1.050	27	*****	0.32	4
HAMMON	3871	4	79.8	29	*****	102	10	54	30	0	*****	430	*****	0.810	29	*****	0.81	13
LEEDEY	5090	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.720	31	-1.83	0.56	28
MACKIE	5463	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.590	31	*****	0.38	29
MORAVIA	6035	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.560	31	-1.95	0.23	13
OKEENE	6629	4	83.9	31	2	107	9	62	29	0	0	585	61	1.340	31	-1.39	0.63	11
RETROP	7565	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.570	31	*****	0.15	5
REYDON	7579	4	79.8	26	*****	102	10	60	6	0	*****	385	*****	2.310	26	*****	0.76	26
SAYRE	7952	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.881	31	-1.54	0.66	5
SWEETWATER	8652	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.771	31	*****	0.65	4
TALOGA	8708	4	82.2	31	1.9	105	10	59	31	0	0	532	58	1.242	31	-1.19	0.50	28
THOMAS	8815	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.490	31	*****	1.35	12
VICI	9172	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.841	31	-1.44	0.46	27
WATONGA	9364	4	83.5	31	2.6	105	9	61	29	0	0	574	81	0.281	31	-2.01	0.11	28
WEATHERFORD	9422	4	83.0	31	2.5	103	9	64	30	0	0	558	77	0.670	31	-2.17	0.24	27

AUGUST 1998 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	*****	*****	*****	*****	0.390	31	*****	0.15	5
ARCADIA	288	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.720	31	*****	0.35	8
BLANCHARD	830	5	85.2	31	3.4	107	2	65	30	0	0	627	106	1.156	31	-1.57	0.62	9
BRISTOW	1144	5	84.4	31	3.5	107	3	61	30	0	0	601	108	0.702	31	-1.96	0.20	27
CHANDLER	1684	5	84.5	30	3.1	108	3	60	31	0	0	585	77	0.280	30	*****	0.23	11
CHICKASHA EXP	1750	5	85.1	31	4	106	2	65	31	0	0	624	125	0.851	31	-1.91	0.46	5
COX CITY	2196	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.460	31	*****	0.70	13
CRESCENT	2242	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.390	31	*****	0.14	11
CUSHING	2318	5	83.6	29	*****	105	3	66	31	0	*****	539	*****	0.623	29	*****	0.25	5
EDMOND	2788	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.311	31	*****	0.25	3
EL RENO	2818	5	83.0	31	2.1	104	3	60	30	0	0	559	66	0.330	31	-2.46	0.18	4
GUTHRIE	3821	5	85.2	31	3	109	1	61	5	0	0	626	93	0.170	31	-2.10	0.12	11
HENNESSEY	4055	5	84.0	27	*****	107	9	62	30	0	*****	514	*****	0.740	29	*****	0.31	8
INGALLS	4489	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.411	31	*****	1.80	12
KINGFISHER	4861	5	84.0	28	*****	107	28	60	30	0	*****	532	*****	1.420	30	*****	0.80	11
KONAWA	4915	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.880	31	-1.11	0.64	10
MARSHALL	5589	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.340	31	-2.23	0.09	13
MEEKER	5779	5	82.1	31	0.8	106	3	59	30	0	0	529	24	0.582	31	-1.88	0.29	13
MULHALL	6110	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.970	31	*****	0.81	5
NORMAN NWS	6386	5	84.0	31	2.8	104	2	64	30	0	0	590	88	0.167	31	-2.69	0.08	13
OKEMAH	6638	5	86.0	31	5.1	108	1	68	8	0	0	651	158	0.671	31	-1.97	0.50	11
OKLAHOMA CTY F.	6659	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.344	31	*****	0.12	9
OKLAHOMA CTY	6661	5	85.0	31	3.9	107	2	67	8	0	0	621	122	0.484	31	-2.12	0.22	5
PERKINS	7003	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.900	31	-1.64	0.82	5
PIEDMONT	7068	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.830	31	*****	0.53	13
PRAGUE	7264	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.181	31	-0.25	1.77	13
PURCELL	7327	5	83.5	31	1.6	108	3	62	30	0	0	573	49	0.750	31	-1.94	0.30	11
SEMINOLE	8042	5	84.0	31	1.4	106	2	65	30	0	0	591	45	2.823	31	0.18	1.36	12
SHAWNEE	8110	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.820	31	-1.68	0.42	11
STELLA	8479	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.512	31	*****	0.19	11
STROUD	8563	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.310	31	*****	0.15	13
STILLWATER	8501	5	83.8	31	3.5	106	3	61	31	0	0	582	108	1.503	31	-1.26	1.12	5
TECUMSEH	8751	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.190	31	*****	1.19	12
TROUSDALE	8960	5	84.0	29	*****	106	3	62	31	0	*****	550	*****	0.860	29	*****	0.36	13
UNION CITY	9086	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.844	31	-2.04	0.27	5
WELTY	9479	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.010	31	*****	0.52	11
WEWOKA	9575	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.811	31	-0.96	0.89	11

AUGUST 1998 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	*****	*****	*****	*****	1.033	31	*****	0.30	20
BEGGS	631	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.280	31	*****	1.28	5
CALVIN	1391	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.470	31	-1.94	0.20	11
CHECOTAH	1711	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.692	31	-1.15	1.04	14
CLAYTON	1858	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.670	31	*****	2.05	13
DEWAR	2485	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.424	31	-0.09	0.82	5
DUSTIN	2690	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.690	30	*****	0.90	13
EUFAULA	2993	6	87.0	30	4.8	108	1	70	30	0	0	660	127	0.700	30	*****	0.30	19
HANNA	3884	6	84.0	31	3	107	2	63	30	0	0	588	92	2.130	31	-0.43	0.82	13
HASKELL	3956	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.570	31	1.05	1.93	7
HOLDENVILLE	4235	6	85.7	31	4.2	108	4	68	31	0	0	642	130	1.530	31	-0.99	0.84	10
LAKE EUFAULA	4975	6	83.1	31	*****	105	3	66	8	0	*****	562	*****	1.950	31	*****	0.80	23
LYONS	5437	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.360	31	-0.80	0.85	14
MARBLE CITY	5546	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.210	30	*****	0.54	14
MCALESTER	5664	6	85.1	31	3.8	108	2	67	30	0	0	624	119	0.706	31	-2.34	0.34	12
MCCURTAIN	5693	6	85.5	31	4.1	109	26	67	14	0	0	636	128	2.681	31	-0.23	1.46	14
MUSKOGEE	6130	6	83.9	31	2.8	107	2	65	30	0	0	585	86	0.583	31	-2.26	0.22	19
OKMULGEE	6670	6	83.0	27	*****	108	2	61	30	0	*****	485	*****	2.390	27	*****	1.45	4
OKTAHA	6678	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.370	31	*****	0.19	9
SALLISAW	7862	6	84.2	31	3.2	103	3	68	7	0	0	594	98	2.141	31	-1.25	0.89	15
SCIPIO	7979	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.070	31	*****	0.38	4
SCRAPER	7993	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.800	31	*****	0.80	11
SHORT	8170	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.420	31	*****	2.63	14
STILWELL	8506	6	80.6	31	1.8	100	1	63	30	0	0	483	55	1.990	31	-1.90	0.63	27
TAHLEQUAH	8677	6	82.2	31	2.4	102	26	63	7	0	0	533	74	1.926	31	-1.78	1.03	14
WEBBERS FALL	9445	6	84.7	31	4.5	109	3	64	31	0	0	612	141	1.720	31	-1.17	0.96	14
WESTVILLE	9523	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.280	31	*****	1.42	10
WETUMKA	9571	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.431	30	*****	2.42	13

AUGUST 1998 SUMMARY FOR SOUTHWEST DIVISION (CD7)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
ALTUS	179	7	83.8	31	1	105	1	63	30	0	0	583	31	2.540	31	0.09	1.15	28
ALTUS DAM	184	7	84.7	31	2.2	105	11	62	31	0	0	612	69	1.090	31	-1.30	0.44	13
ANADARKO	224	7	81.7	31	0.3	104	3	56	30	0	0	519	11	0.701	31	-1.66	0.48	8
APACHE	260	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.310	31	-0.12	0.88	11
ALTUS AFB	447	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.511	31	*****	1.95	28
CARNEGIE	1504	7	83.9	31	2.1	106	11	62	29	0	0	585	64	0.990	31	-1.33	0.29	4
CHATTANOOGA	1706	7	84.7	31	1.6	108	3	65	31	0	0	610	49	1.580	31	-1.10	0.71	13
DUNCAN 11 W	2668	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.141	31	*****	0.55	13
FREDERICK	3353	7	84.1	21	*****	106	2	67	31	0	*****	401	*****	1.840	21	*****	1.25	4
HEADRICK	3998	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.410	31	*****	1.40	27
HOBART	4204	7	83.3	31	1.3	106	10	62	30	0	0	566	39	0.602	31	-1.77	0.33	13
HOLLIS	4249	7	83.6	31	1.3	105	10	62	31	0	0	577	41	0.700	31	-1.74	0.44	5
LAWTON	5063	7	84.9	30	2.6	105	3	69	31	0	0	598	62	1.490	30	*****	0.90	11
LOOKEBA	5329	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.672	31	-1.91	0.28	4
MANGUM	5509	7	82.8	31	0.2	105	10	60	30	0	0	552	6	0.721	31	-1.56	0.26	12
RANDLETT	7403	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.722	31	*****	0.29	4
ROOSEVELT	7727	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.950	31	-1.43	0.29	5
SEDAN	8016	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.451	31	*****	0.16	11
SNYDER	8299	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.051	31	-0.46	0.58	28
VINSON	9212	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.520	31	-1.77	0.25	5
WALTERS	9278	7	85.2	31	2	107	3	67	7	0	0	625	61	0.970	31	-1.71	0.25	9
WICHITA MT	9629	7	82.7	31	1.9	104	11	61	31	0	0	549	59	1.191	31	-0.97	0.35	11
WILLOW	9668	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.090	31	*****	0.64	13

AUGUST 1998 SUMMARY FOR SOUTH CENTRAL DIVISION (CD8)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
ADA	17	8	84.2	31	2.9	105	2	65	30	0	0	597	92	4.550	31	1.62	2.27	13
ALLEN	147	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.711	31	*****	0.22	13
ARDMORE	292	8	86.9	31	3.5	106	2	70	8	0	0	679	109	1.170	31	-1.36	0.50	13
ATOKA DAM	394	8	86.3	21	*****	110	3	63	10	0	*****	448	*****	1.690	21	*****	0.63	13
BOKCHITO	917	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.070	31	*****	0.04	14
CANEY	1437	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.580	31	*****	0.52	13
CENTRAHOMA	1648	8	86.0	31	*****	110	3	64	15	0	*****	652	*****	1.680	31	*****	0.70	14
CHICKASAW	1745	8	84.1	31	2.5	106	3	64	31	0	0	592	77	0.930	31	-1.20	0.43	13
COLEMAN	2011	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.400	31	*****	0.40	5
COMANCHE	2054	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.310	31	-0.44	0.90	7
DAISY	2354	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.930	31	0.73	1.40	22
DUNCAN	2660	8	84.2	31	2.1	104	3	64	21	0	0	597	67	1.241	31	-1.19	0.45	11
ELMORE CITY	2872	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.270	31	*****	0.12	6
GRADY	3688	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.020	31	*****	0.90	13
HEALDTON	4001	8	85.5	31	3.3	107	3	67	8	0	0	635	102	0.750	31	-1.69	0.29	5
HENNEPIN	4052	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.060	31	*****	0.45	13
KETCHUM RAN	4780	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.420	31	*****	1.00	13
KINGSTON	4865	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.741	31	-0.86	0.65	5
LEHIGH	5108	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.351	31	*****	0.55	13
LINDSAY	5216	8	83.8	31	2.2	105	2	61	30	0	0	584	69	1.240	31	-1.19	1.10	15
LOCO	5247	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.670	31	*****	0.26	5
MADILL	5468	8	86.4	29	*****	108	2	70	15	0	*****	620	*****	2.380	30	*****	1.65	13
MARIETTA	5563	8	83.8	31	1.2	106	3	66	2	0	0	583	37	2.690	31	0.02	1.33	5
MARLOW	5581	8	84.9	31	3.5	111	2	62	7	0	0	617	109	2.040	31	-0.56	0.85	13
MC GEE CREEK	5713	8	85.5	31	*****	110	3	65	8	0	*****	634	*****	2.010	31	*****	0.77	13
PAULS VALLEY	6926	8	84.2	31	1.8	107	2	62	31	0	0	596	57	0.492	31	-1.71	0.18	14
PONTOTOC	7214	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.830	31	0.10	1.74	12
PISHOMINGO	8884	8	80.2	31	-2.3	105	2	58	30	0	0	473	-71	1.010	31	-1.62	0.44	13
FUSSY	9032	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.110	31	*****	0.55	12
WAURIKA	9395	8	85.5	31	2.2	107	2	68	30	0	0	635	68	2.641	31	-0.01	1.55	11

AUGUST 1998 SUMMARY FOR SOUTHEAST DIVISION (CD9)

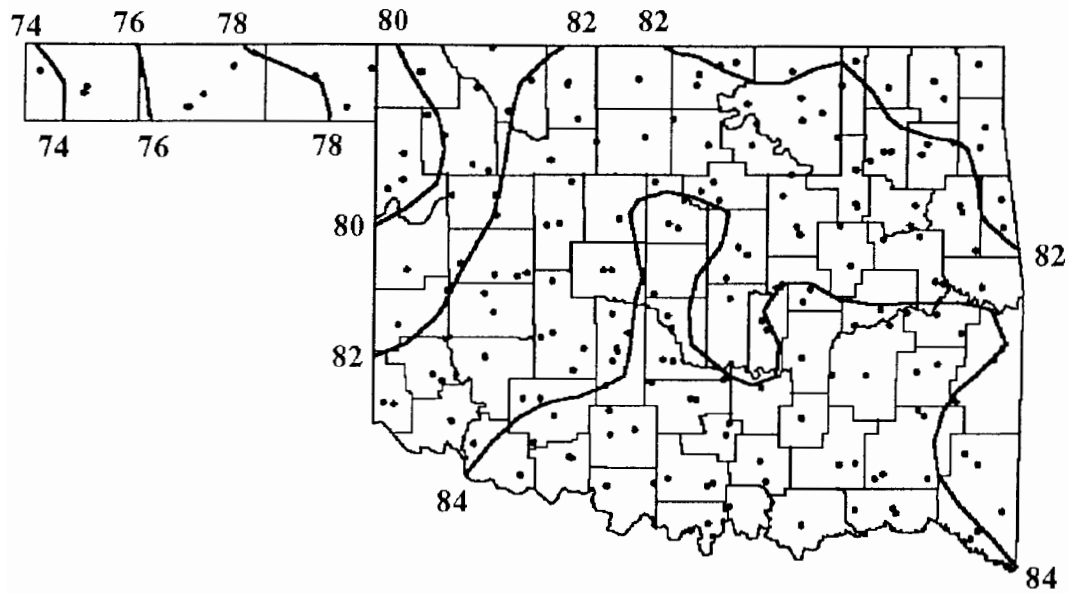
NAME	ID	CD	MEAN TEMP	NUM OBS	DEV		DAY	MIN TEMP	DAY	HEAT		DEV		COOL		DEV		TOT PPT	NUM OBS	DEV		24-HR	DAY
					FROM NORM	MAX TEMP				DEG DAY	FROM NORM	DEG DAY	FROM NORM	DEG DAY	FROM NORM	MAX TEMP							
ANTLERS	256	9	85.0	31	3.8	108	2	63	8	0	0	619	117	2.500	31	-0.29	1.50	13					
BATTIEST	567	9	82.3	31	*****	107	3	63	9	0	*****	538	*****	3.080	31	*****	1.38	13					
BEAR MT	584	9	84.9	29	*****	112	4	62	8	0	*****	577	*****	1.871	29	*****	0.65	14					
BENGAL	670	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.380	31	*****	0.96	5					
BOSWELL	980	9	85.2	31	3.9	107	3	66	8	0	0	628	123	1.180	31	-1.33	0.65	4					
BROKEN BOW	1162	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.190	31	-0.74	0.94	14					
CARNASAW	1499	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.641	31	-0.31	1.14	6					
CARTER TWR	1544	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.870	31	-1.78	0.61	18					
FANSHAWE	3065	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.860	31	-2.20	0.43	4					
HEAVENER	4008	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.500	30	*****	0.58	20					
HUGO	4384	9	86.5	31	4.7	109	4	66	8	0	0	668	147	0.900	31	-1.77	0.50	12					
IDABEL	4451	9	83.8	31	3.3	110	3	60	29	0	0	582	101	1.873	31	-0.69	1.25	12					
PAGE	6842	9	83.0	26	*****	105	2	65	22	0	*****	469	*****	3.631	27	*****	1.71	29					
POTEAU	7254	9	84.3	31	*****	105	2	64	8	0	*****	599	*****	0.390	31	*****	0.15	14					
SMITHVILLE	8285	9	82.9	9	*****	109	3	64	8	0	*****	162	*****	3.401	13	*****	1.40	4					
SPIRO	8416	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.773	31	-1.56	0.59	12					
TUSKAHOMA	9023	9	85.3	31	4.2	110	2	61	8	0	0	629	130	1.352	31	-1.95	0.37	20					
VALLIANT	9118	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.133	31	-1.33	0.45	31					
WILBURTON	9634	9	84.1	31	3.7	111	2	62	8	0	0	591	114	2.780	31	-0.32	0.71	10					
WISTER	9724	9	89.0	26	*****	109	3	66	31	0	*****	624	*****	1.770	26	*****	1.13	4					

AUGUST 1998 CLIMATE DIVISION SUMMARY

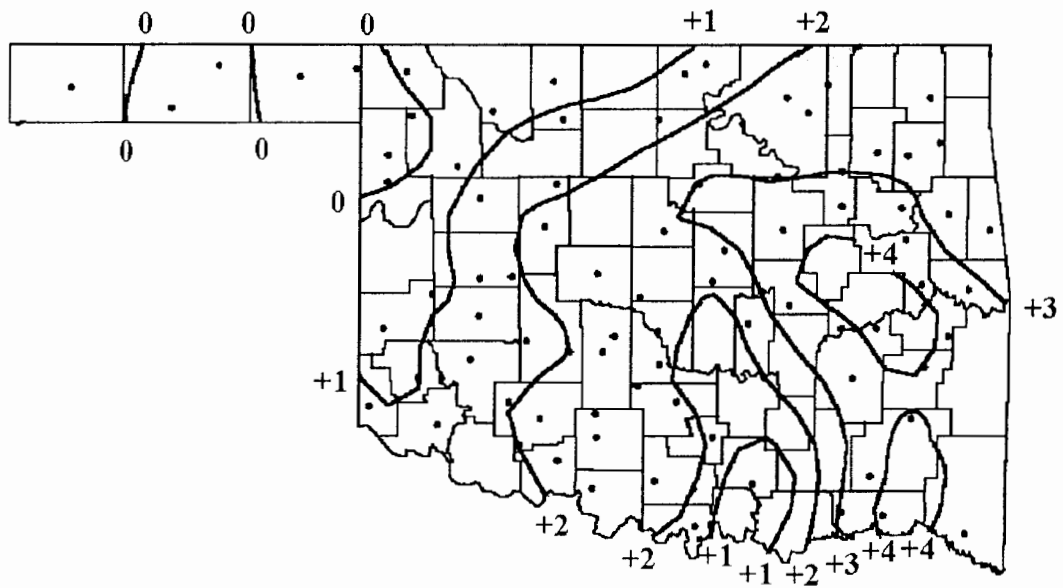
CD	MEAN TEMP	NUM OBS	DEV		DAY	MIN TEMP	DAY	HEAT		DEV		COOL		DEV		TOT PPT	NUM OBS	DEV		24-HR	DAY	
			FROM NORM	MAX TEMP				DEG DAY	FROM NORM	DEG DAY	FROM NORM	DEG DAY	FROM NORM	MAX TEMP								
1	78.1	9	0	106	27	54	31	0	0	404	-3	2.150	12	-0.46	2.25	11						
2	81.7	10	0.7	107	9	54	31	0	0	516	21	1.170	20	-1.84	1.42	13						
3	83.0	13	2.9	107	2	57	11	0	0	556	86	1.490	23	-1.84	2.53	5						
4	82.6	8	1.9	107	9	54	30	0	0	544	58	0.910	17	-1.69	1.35	12						
5	84.3	13	3	109	1	59	30	0	0	597	91	0.960	32	-1.67	1.80	12						
6	84.2	11	3.5	109	3	61	30	0	0	592	105	1.860	23	-1.03	2.63	14						
7	83.8	11	1.5	108	3	56	30	0	0	580	43	1.330	21	-1.10	1.95	28						
8	84.5	13	2.3	111	2	58	30	0	0	605	71	1.570	28	-1.02	2.27	13						
9	84.6	8	3.8	112	4	60	29	0	0	607	119	1.860	15	-1.11	1.71	29						

MESONET MONTHLY SUMMARY FOR AUGUST 1998

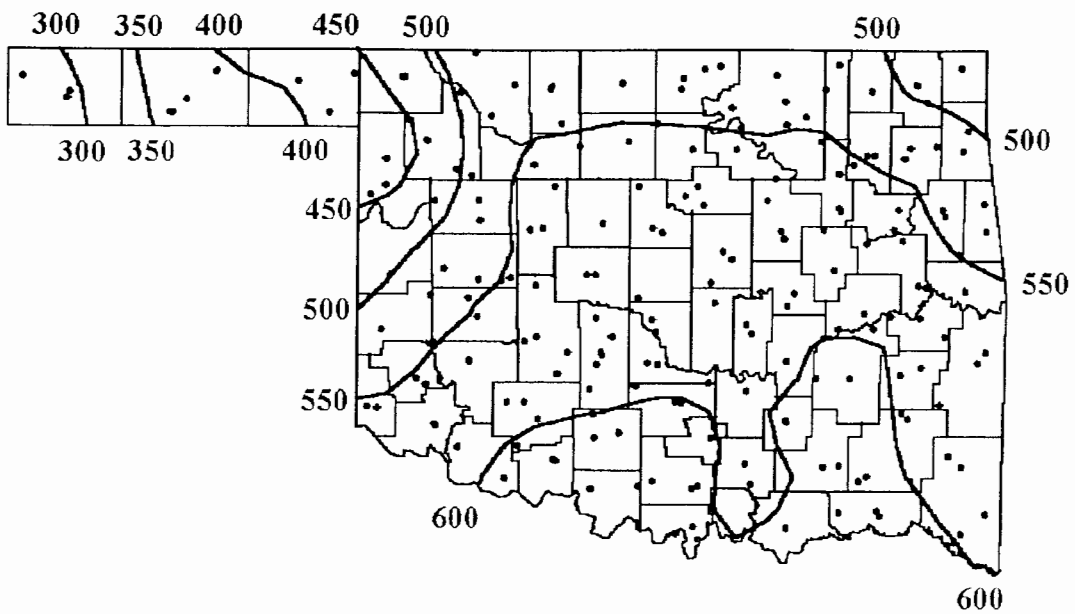
NAME	MEAN MAX		MIN		TOT MAX		HDD	CDD	PPT	24-HR	DAY	NAME	MEAN MAX		MIN		TOT MAX		HDD	CDD	PPT	24-HR	DAY
	TEMP	TEMP	TEMP	TEMP	TEMP	TEMP							TEMP	TEMP	TEMP	TEMP	TEMP	TEMP					
PANHANDLE																							
Arnett	79.6	102	9	59	7	0	452	.60	.41	27	Goodwell	76.5	98	23	58	6	0	357	2.57	1.32	25		
Beaver	77.6	98	8	55	30	0	390	2.40	.99	4	Hooker	77.5	100	24	54	31	0	388	.89	.46	4		
Boise City	73.3	93	27	53	30	0	257	3.61	.99	10	Kenton	73.6	96	24	55	6	0	267	3.21	1.13	3		
Buffalo	80.6	103	27	59	7	0	484	2.08	.99	27	Slapout	78.0	100	9	57	31	0	403	3.40	1.20	10		
NORTH CENTRAL																							
Alva	82.6	107	9	61	7	0	545	2.06	1.21	12	May Ranch	81.0	101	17	61	7	0	495	1.71	.78	26		
Blackwell	82.4	104	9	61	7	0	540	.34	.20	12	Medford	82.2	105	9	58	29	0	533	.81	.52	11		
Breckenridge	83.5	107	9	60	7	0	574	.97	.75	12	Newkirk	81.8	102	25	62	7	0	520	.09	.06	28		
Cherokee	82.9	107	9	60	7	0	556	1.44	1.19	12	Red Rock	83.2	105	2	59	30	0	563	1.99	1.57	11		
Fairview	83.7	107	9	60	7	0	580	.47	.26	28	Seiling	81.5	104	9	58	7	0	511	1.19	.72	28		
Freedom	81.1	103	9	59	7	0	499	1.93	1.42	10	Woodward	80.4	103	9	58	7	0	477	*****	*****	**		
Lahoma	82.9	107	9	62	7	0	553	.95	.31	9													
NORTHEAST																							
Bixby	82.2	103	2	62	7	0	534	1.18	.50	9	Nowata	81.4	102	19	58	7	0	507	.58	.43	26		
Burbank	82.3	103	25	60	7	0	536	.25	.19	26	Pawnee	82.9	105	2	60	30	0	556	.94	.48	13		
Catoosa	83.3	105	2	63	7	0	567	1.50	.77	13	Pryor	81.6	105	2	59	7	0	515	2.54	2.29	9		
Claremore	82.3	105	2	61	7	0	536	2.39	1.23	13	Skiatook	82.6	101	2	62	7	0	545	1.64	.73	28		
Copan	82.3	103	25	61	7	0	536	1.16	.71	26	Tullahassee	83.8	107	2	63	7	0	582	3.51	1.28	4		
Foraker	81.0	103	25	62	7	0	496	1.06	1.03	26	Vinita	80.6	103	2	60	7	0	483	3.20	1.92	9		
Jay	80.9	102	2	61	7	0	491	4.00	2.28	4	Wynona	82.2	103	2	61	7	0	533	.16	.09	3		
Miami	80.3	100	25	61	7	0	474	*****	*****	**													
WEST CENTRAL																							
Bessie	83.5	104	9	61	29	0	575	.81	.57	4	Putnam	81.9	105	9	62	6	0	523	.45	.29	28		
Butler	82.4	105	9	58	29	0	538	*****	*****	**	Retrop	82.8	104	9	62	29	0	551	.88	.33	28		
Camargo	80.2	105	9	56	29	0	471	.52	.32	28	Watonga	83.2	104	9	62	29	0	565	.34	.11	28		
Cheyenne	81.5	102	9	62	6	0	510	*****	*****	**	Weatherford	82.8	104	9	63	6	0	553	.84	.59	12		
Erick	80.9	103	9	55	29	0	492	1.28	.89	4													
CENTRAL																							
Acme	83.7	106	2	60	30	0	579	1.69	1.09	10	Minco	83.6	104	2	66	6	0	577	.48	.17	3		
Bowlegs	83.1	107	2	63	30	0	561	2.20	1.10	12	Ninnekah	84.1	105	2	61	30	0	591	.72	.36	5		
Bristow	83.0	107	2	60	30	0	558	.52	.16	26	Norman	84.2	105	2	64	30	0	594	.26	.10	13		
Chandler	83.5	105	2	63	30	0	574	1.45	1.09	12	Oilton	82.0	105	2	58	30	0	528	.30	.18	11		
Chickasha	83.2	104	2	59	30	0	564	.68	.46	5	Okemah	84.3	108	1	64	30	0	599	.76	.63	10		
El Reno	81.6	104	2	58	30	0	514	.35	.26	3	Perkins	84.6	106	2	61	30	0	607	.61	.57	4		
Guthrie	84.4	106	2	63	30	0	602	2.66	1.04	4	Shawnee	84.1	106	2	65	30	0	593	1.66	1.13	12		
Kingfisher	84.2	106	2	59	30	0	596	1.71	1.25	25	Spencer	84.1	103	9	60	30	0	514	.22	.07	7		
Marena	83.4	106	2	64	30	0	571	1.56	.75	12	Stillwater	83.4	104	2	59	30	0	570	1.45	1.12	4		
Marshall	84.3	106	9	60	30	0	598	.53	.22	12	Washington	84.4	106	2	66	30	0	600	.48	.17	10		
EAST CENTRAL																							
Calvin	83.8	107	1	63	30	0	583	*****	*****	**	Preston	*****	*****	**	***	**	*****	*****	1.48	1.11	4		
Cookson	82.4	103	1	62	6	0	538	.94	.57	13	Sallisaw	84.1	105	2	66	7	0	591	1.16	.56	4		
Eufaula	84.2	106	1	65	30	0	594	.95	.48	13	Stigler	83.3	107	2	63	30	0	568	1.95	1.22	13		
Haskell	82.9	106	2	65	7	0	554	2.63	1.58	4	Stuart	84.5	107	2	66	7	0	603	2.07	.62	9		
Hectorville	84.6	107	2	66	7	0	609	1.00	.65	4	Tahlequah	81.4	102	2	62	6	0	507	1.00	.65	13		
McAlester	84.5	106	1	66	7	0	603	1.30	.52	12	Webbers Falls	83.5	104	1	63	30	0	572	3.47	2.20	13		
Okmulgee	82.7	107	2	61	30	0	549	2.44	1.16	9	Westville	81.8	102	1	64	6	0	521	.86	.40	9		
SOUTHWEST																							
Altus	82.4	102	10	63	29	0	540	2.38	1.17	28	Hollis	82.9	104	10	59	29	0	556	.00	.00	1		
Apache	82.5	104	2	64	30	0	544	2.30	1.36	12	Mangum	82.2	105	10	57	31	0	533	1.13	.55	10		
Fort Cobb	82.7	104	10	63	30	0	548	1.17	.60	5	Medicine Park	83.9	105	2	68	5	0	587	1.62	.82	5		
Grandfield	84.7	107	10	65	6	0	609	1.43	1.28	14	Tipton	83.8	105	10	63	31	0	581	1.45	.70	12		
Hinton	82.6	104	9	61	29	0	544	2.10	1.53	12	Walters	86.1	108	2	66	6	0	653	.82	.20	12		
Hobart	83.1	104	9	63	29	0	562	1.51	.95	10													
SOUTH CENTRAL																							
Ada	83.8	107	2	63	30	0	582	4.21	1.26	13	Lane	85.0	106	1	67	7	0	620	.72	.36	12		
Ardmore	85.6	107	1	67	8	0	638	1.54	.72	7	Madill	84.9	106	1	69	15	0	616	2.61	1.17	4		
Burneyville	84.5	107	1	66	30	0	603	2.81	1.53	4	Pauls Valley	85.5	107	2	65	30	0	635	.32	.10	3		
Byars	84.0	105	1	66	30	0	589	1.47	.92	3	Ringling	85.4	107	2	68	7	0	633	.54	.37	4		
Centrahoma	84.6	106	1	64	30	0	607	1.93	1.05	13	Sulphur	84.3	106	2	66	6	0	599	.46	.11	4		
Durant	86.1	107	2	67	8	0	654	1.18	.90	12	Tishomingo	83.9	106	1	65	7	0	585	*****	*****	**		
Ketchum Ranch	84.6	106	2	65	7	0	608	2.22	1.42	12	Waurika	85.8	108	2	67	30	0	643	2.29	.89	10		
SOUTHEAST																							
Antlers	84.1	108	2	65	8	0	591	6.69	1.43	7	Idabel	84.5	106	1	64	8	0	604	.78	.48	11		
Broken Bow	83.2	108	1	64	8	0	564	3.33	1.17	5	Mt Herman	82.6	106	2	64	8	0	544	1.20	.53	6		
Clayton	83.9	107	1	65	8	0	587	*****	*****	**	Talihina	84.0	108	1	63	8	0	590	1.27	.28	22		
Cloudy	84.0	106	2	65	7	0	590	2.34	1.55	13	Wilburton	84.0	108	1	65	8	0	570	2.15	1.07	7		
Hugo	86.1	107	1	67	8	0	655	.57	.15	3	Wister	83.6	108	1	62	8	0	577	.95	.52	14		



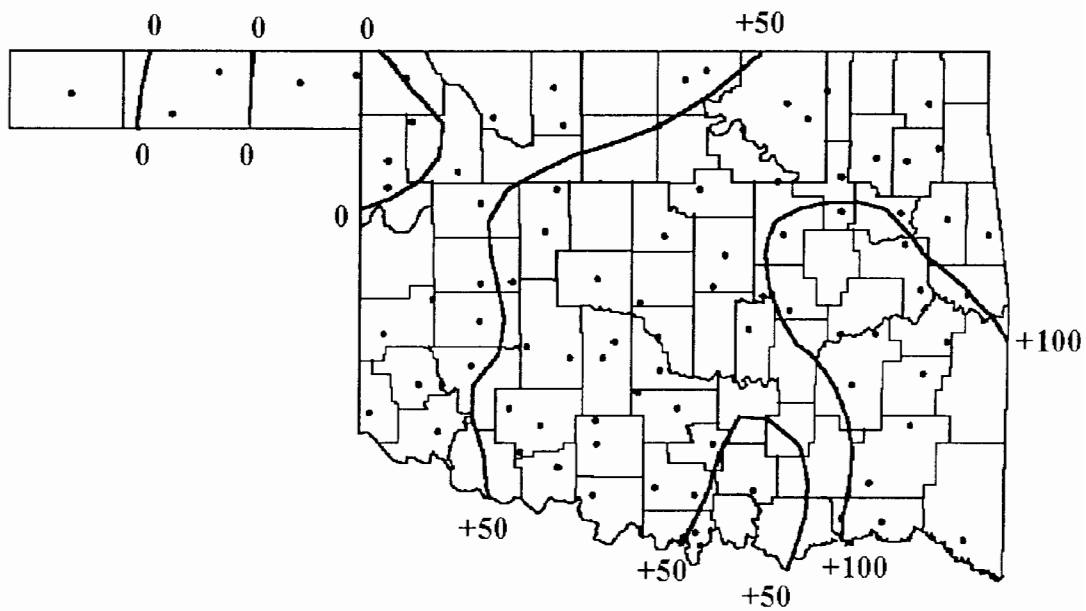
AUGUST 1998 AVERAGE MONTHLY TEMPERATURE (°F)



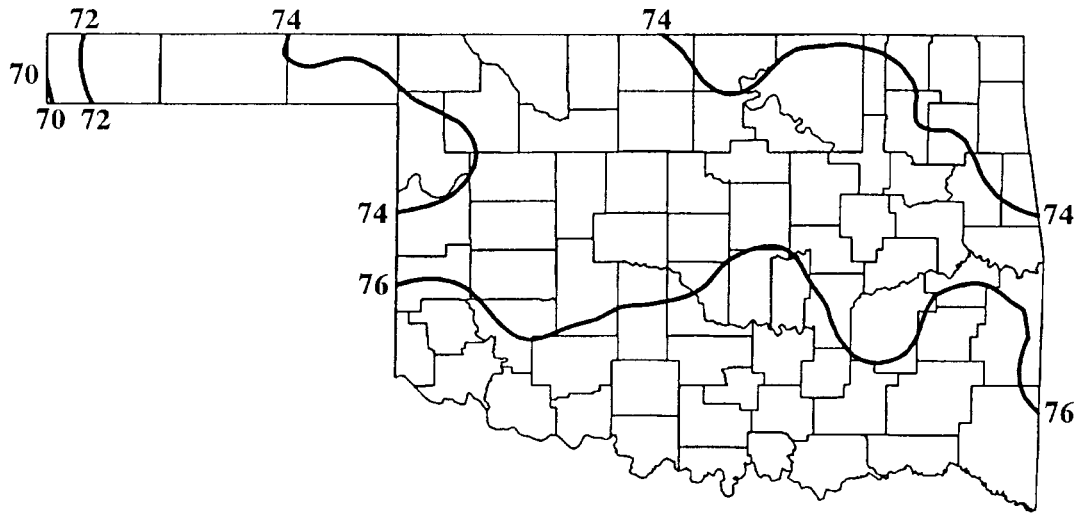
AUGUST 1998 DEPARTURE FROM NORMAL TEMPERATURE (°F)



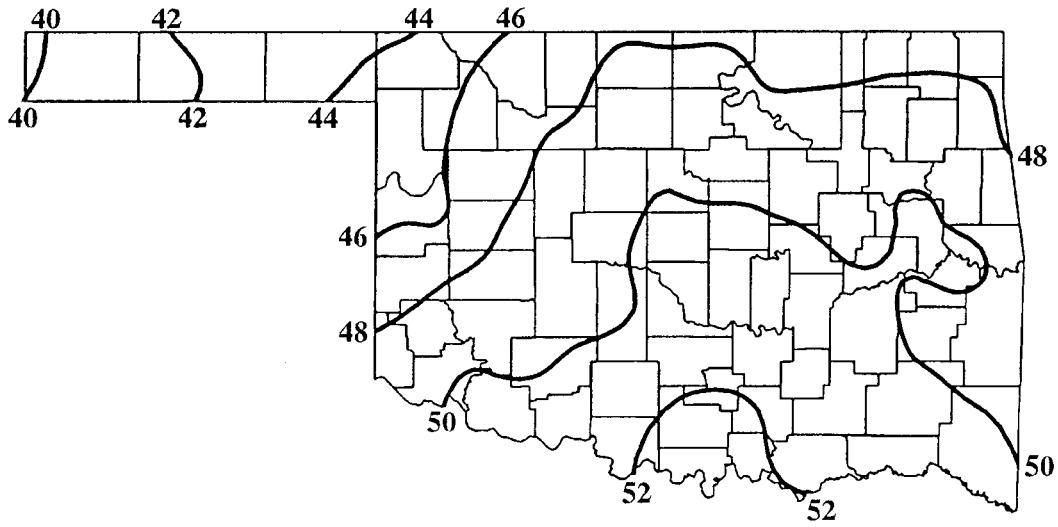
AUGUST 1998 ACCUMULATED COOLING DEGREE DAYS (°F)



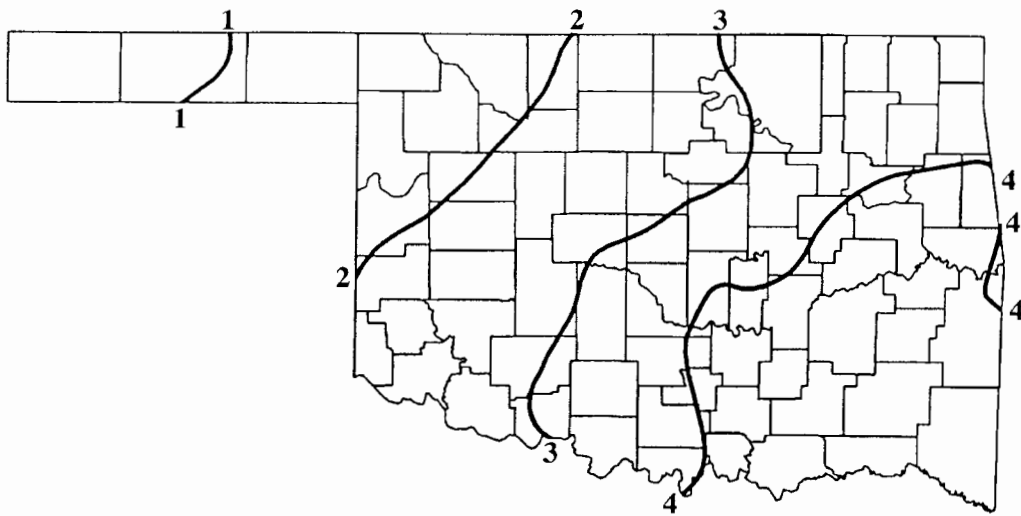
AUGUST 1998 DEPARTURE FROM NORMAL COOLING DEGREE DAYS (°F)



OCTOBER NORMAL DAILY MAXIMUM TEMPERATURE (°F)



OCTOBER NORMAL DAILY MINIMUM TEMPERATURE (°F)



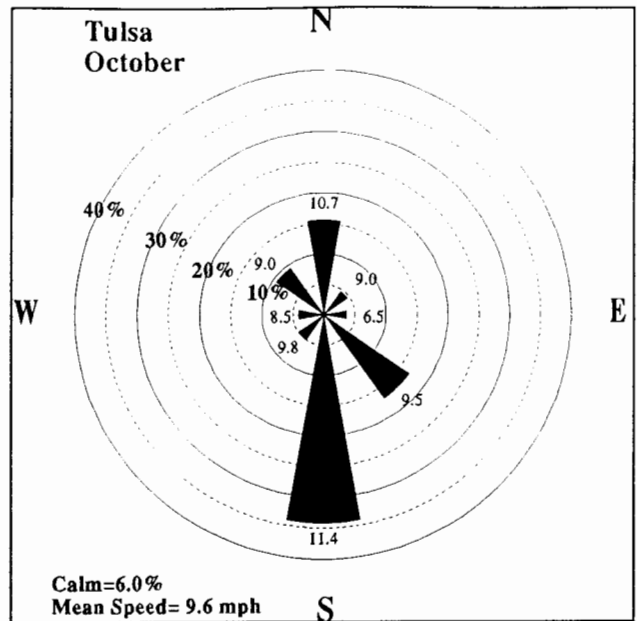
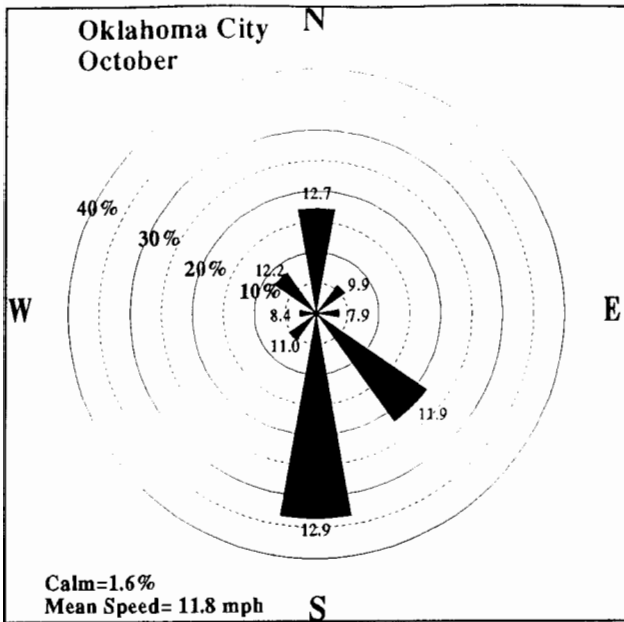
OCTOBER NORMAL MONTHLY PRECIPITATION (inches)

OUTLOOK FOR OCTOBER THROUGH DECEMBER 1998

BASED ON SEASONAL OUTLOOKS PROVIDED BY THE CLIMATE PREDICTION CENTER

TEMPERATURE: Near Normal Statewide

PRECIPITATION: Less Than Normal Statewide

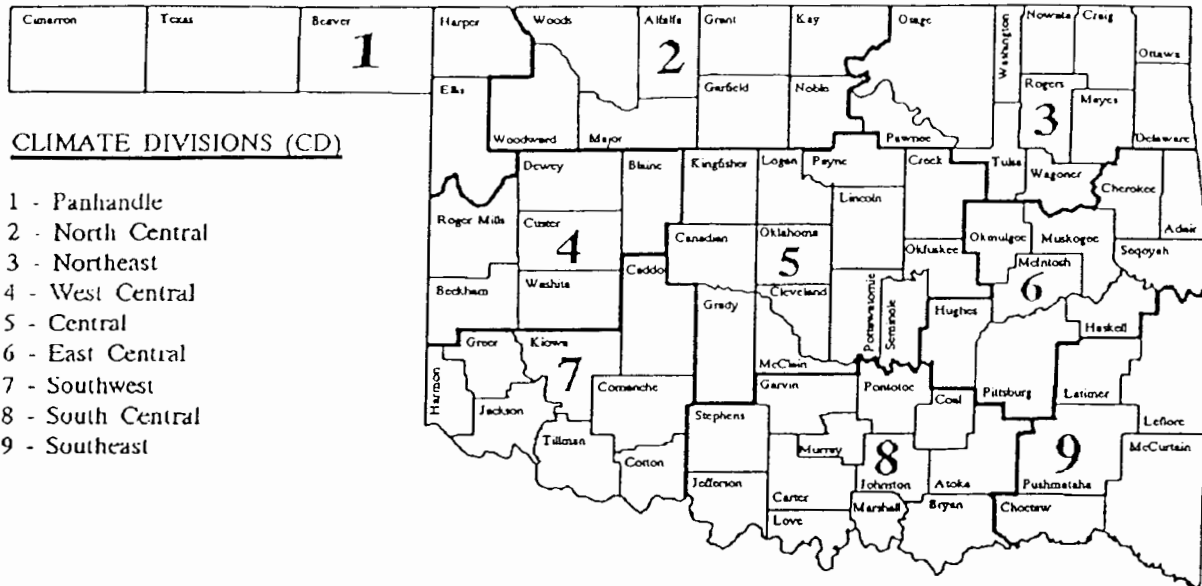


October Wind Roses for Oklahoma City and Tulsa. The frequency (percent) of winds from each direction is represented by length of its bar. The numbers at the ends of the bars indicate the average wind speed from that direction in miles per hour.

SUNRISE/SUNSET TIMES FOR OCTOBER 1998

OKLAHOMA CITY				TULSA			
DATE	SUNRISE	SUNSET	DAYLIGHT	DATE	SUNRISE	SUNSET	DAYLIGHT
9810 1	6:24AM	6:16PM CST	11 hrs 52 mins	9810 1	6:17AM	6: 9PM CST	11 hrs 52 mins
9810 2	6:24AM	6:14PM CST	11 hrs 50 mins	9810 2	6:18AM	6: 7PM CST	11 hrs 49 mins
9810 3	6:25AM	6:13PM CST	11 hrs 48 mins	9810 3	6:19AM	6: 6PM CST	11 hrs 47 mins
9810 4	6:26AM	6:11PM CST	11 hrs 46 mins	9810 4	6:19AM	6: 4PM CST	11 hrs 45 mins
9810 5	6:27AM	6:10PM CST	11 hrs 43 mins	9810 5	6:20AM	6: 3PM CST	11 hrs 43 mins
9810 6	6:28AM	6: 9PM CST	11 hrs 41 mins	9810 6	6:21AM	6: 1PM CST	11 hrs 40 mins
9810 7	6:28AM	6: 7PM CST	11 hrs 39 mins	9810 7	6:22AM	6: 0PM CST	11 hrs 38 mins
9810 8	6:29AM	6: 6PM CST	11 hrs 37 mins	9810 8	6:23AM	5:59PM CST	11 hrs 36 mins
9810 9	6:30AM	6: 5PM CST	11 hrs 35 mins	9810 9	6:24AM	5:57PM CST	11 hrs 34 mins
981010	6:31AM	6: 3PM CST	11 hrs 32 mins	981010	6:24AM	5:56PM CST	11 hrs 31 mins
981011	6:32AM	6: 2PM CST	11 hrs 30 mins	981011	6:25AM	5:55PM CST	11 hrs 29 mins
981012	6:32AM	6: 1PM CST	11 hrs 28 mins	981012	6:26AM	5:53PM CST	11 hrs 27 mins
981013	6:33AM	5:59PM CST	11 hrs 26 mins	981013	6:27AM	5:52PM CST	11 hrs 25 mins
981014	6:34AM	5:58PM CST	11 hrs 24 mins	981014	6:28AM	5:51PM CST	11 hrs 23 mins
981015	6:35AM	5:57PM CST	11 hrs 22 mins	981015	6:29AM	5:49PM CST	11 hrs 20 mins
981016	6:36AM	5:55PM CST	11 hrs 19 mins	981016	6:30AM	5:48PM CST	11 hrs 18 mins
981017	6:37AM	5:54PM CST	11 hrs 17 mins	981017	6:31AM	5:47PM CST	11 hrs 16 mins
981018	6:38AM	5:53PM CST	11 hrs 15 mins	981018	6:32AM	5:45PM CST	11 hrs 14 mins
981019	6:39AM	5:52PM CST	11 hrs 13 mins	981019	6:32AM	5:44PM CST	11 hrs 12 mins
981020	6:39AM	5:50PM CST	11 hrs 11 mins	981020	6:33AM	5:43PM CST	11 hrs 9 mins
981021	6:40AM	5:49PM CST	11 hrs 9 mins	981021	6:34AM	5:42PM CST	11 hrs 7 mins
981022	6:41AM	5:48PM CST	11 hrs 7 mins	981022	6:35AM	5:40PM CST	11 hrs 5 mins
981023	6:42AM	5:47PM CST	11 hrs 5 mins	981023	6:36AM	5:39PM CST	11 hrs 3 mins
981024	6:43AM	5:46PM CST	11 hrs 3 mins	981024	6:37AM	5:38PM CST	11 hrs 1 mins
981025	6:44AM	5:45PM CST	11 hrs 1 mins	981025	6:38AM	5:37PM CST	10 hrs 59 mins
981026	6:45AM	5:44PM CST	10 hrs 59 mins	981026	6:39AM	5:36PM CST	10 hrs 57 mins
981027	6:46AM	5:43PM CST	10 hrs 57 mins	981027	6:40AM	5:35PM CST	10 hrs 55 mins
981028	6:47AM	5:42PM CST	10 hrs 55 mins	981028	6:41AM	5:34PM CST	10 hrs 53 mins
981029	6:48AM	5:40PM CST	10 hrs 53 mins	981029	6:42AM	5:33PM CST	10 hrs 51 mins
981030	6:49AM	5:39PM CST	10 hrs 51 mins	981030	6:43AM	5:32PM CST	10 hrs 49 mins
981031	6:50AM	5:38PM CST	10 hrs 49 mins	981031	6:44AM	5:31PM CST	10 hrs 47 mins

OKLAHOMA



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.

OKLAHOMA CITY CLIMATE CALENDAR
 DATA COURTESY OF NATIONAL WEATHER SERVICE NORMAN

OCTOBER

The data on this calendar is for Oklahoma City.
 Normal Values are calculated for the period 1961-1990.
 Temperature extremes are for the period 1891-1997.
 Precipitation extremes are for the period 1891-1997.

Day	Avg. Temp	Avg. High	Record High Year	Lowest Max Year	1998	Avg. Low	Highest Min Year	Record Low Year	1998	Avg. Ppt.	Greatest Ppt. Year	1998
1	67.4	80.2	97 1938	61 1985		54.6	74 1911	38 1958		0.08	2.28 1959	
2	68.0	80.3	96 1951	57 1902		55.6	73 1911	41 1975		0.26	4.52 1955	
3	67.5	79.2	97 1951	56 1959		55.9	73 1954	40 1975		0.18	1.59 1981	
4	66.9	77.8	96 1931	51 1902		55.9	75 1911	40 1891		0.10	2.22 1955	
5	66.5	77.7	95 1947	53 1988		55.3	69 1981	38 1932		0.10	1.74 1970	
6	64.3	74.8	94 1939	55 1891		53.8	72 1931	40 1976		0.08	1.38 1989	
7	63.9	75.5	94 1979	50 1976		52.2	73 1939	32 1952		0.08	1.41 1967	
8	64.7	76.0	94 1979	50 1970		53.5	71 1949	35 1976		0.05	0.90 1978	
9	65.0	77.1	96 1965	52 1909		52.8	72 1949	34 1892		0.08	2.09 1961	
10	64.7	76.9	95 1965	49 1985		52.4	71 1973	35 1979		0.04	0.94 1985	
11	64.0	76.5	94 1979	51 1987		51.5	69 1962	35 1896		0.11	1.88 1981	
12	65.0	76.6	94 1978	47 1986		53.4	70 1928	34 1987		0.05	2.45 1923	
13	65.6	77.4	90 1963	52 1969		53.8	72 1899	36 1893		0.06	1.44 1923	
14	64.5	76.2	91 1950	47 1923		52.9	70 1899	32 1969		0.08	2.45 1956	
15	63.3	74.2	92 1962	54 1914		52.4	68 1968	38 1974		0.09	1.46 1953	
16	62.3	74.6	95 1917	54 1941		50.0	67 1965	31 1977		0.06	1.08 1981	
17	61.5	73.2	96 1972	51 1925		49.8	68 1934	33 1976		0.07	1.43 1942	
18	60.6	72.1	91 1932	50 1989		49.1	67 1934	33 1898		0.15	2.34 1960	
19	59.5	71.6	92 1894	46 1925		47.3	69 1979	25 1917		0.14	4.98 1983	
20	60.2	72.0	93 1979	42 1910		48.4	72 1979	26 1976		0.23	5.45 1983	
21	60.3	71.8	90 1978	46 1930		48.8	66 1941	30 1917		0.15	3.70 1972	
22	60.2	71.3	87 1939	42 1936		49.2	65 1941	31 1898		0.13	1.87 1953	
23	59.2	69.6	89 1927	45 1895		48.7	67 1934	26 1917		0.06	1.58 1920	
24	57.6	69.0	88 1927	48 1949		46.3	68 1939	30 1995		0.05	1.44 1920	
25	57.4	68.7	87 1939	43 1957		46.0	68 1939	29 1957		0.06	1.65 1899	
26	58.3	70.4	92 1891	42 1936		46.3	71 1939	26 1957		0.04	3.76 1918	
27	57.9	69.3	86 1922	43 1919		46.4	66 1940	22 1957		0.09	3.19 1984	
28	56.7	67.7	89 1938	34 1925		45.6	65 1961	22 1925		0.07	1.38 1991	
29	58.1	69.4	89 1950	34 1925		46.8	67 1961	22 1917		0.08	1.61 1941	
30	57.8	69.1	87 1937	39 1993		46.4	67 1946	16 1917		0.19	2.84 1974	
31	57.3	67.8	86 1938	36 1991		46.7	65 1982	25 1925		0.12	1.82 1972	
MONTH	62.1	73.7	97 1951	34 1925		50.6	74 1911	22 1957		2.71	5.45 1983	

* The most tornadoes reported in October for Oklahoma is 8 in 1970.

TULSA CLIMATE CALENDAR
 DATA COURTESY OF NATIONAL WEATHER SERVICE TULSA

OCTOBER

Day	Avg. Temp	Avg. High	Record High	Lowest Max	Avg. Low	Highest Min	Record Low	1998	Avg. Ppt.	Greatest Ppt.	Year	1998
1	68	79	97	62	57	71	38		0.14	2.95	1985	
2	68	79	96	59	57	73	39		0.14	5.45	1975	
3	67	78	95	63	56	74	39		0.14	1.74	1987	
4	67	78	97	58	56	70	39		0.13	3.79	1968	
5	66	78	95	50	55	73	37		0.13	3.00	1964	
6	66	78	98	57	55	75	35		0.13	3.24	1932	
7	66	77	98	52	54	75	33		0.13	2.07	1952	
8	65	77	97	57	54	73	32		0.13	4.71	1952	
9	65	77	97	54	53	70	32		0.12	0.98	1917	
10	65	76	95	57	53	73	30		0.12	0.95	1925	
11	64	76	94	50	53	71	30		0.12	2.20	1906	
12	64	76	94	49	52	71	32		0.12	3.37	1921	
13	63	75	92	54	52	71	32		0.12	3.50	1917	
14	63	75	92	50	51	69	34		0.12	1.85	1937	
15	63	74	91	55	51	69	38		0.11	2.12	1966	
16	62	74	93	57	51	69	32		0.11	1.92	1966	
17	61	73	90	52	50	67	30		0.11	1.26	1976	
18	61	73	91	51	50	69	29		0.11	1.94	1948	
19	61	73	89	41	49	73	27		0.11	1.73	1917	
20	61	72	91	47	49	76	30		0.11	4.96	1976	
21	60	72	92	50	49	66	30		0.11	2.98	1917	
22	60	72	88	44	48	66	31		0.11	4.05	1911	
23	60	71	92	41	48	70	26		0.11	2.40	1937	
24	60	71	88	50	48	71	24		0.11	0.74	1917	
25	59	70	91	48	47	71	31		0.11	1.53	1925	
26	58	70	90	40	47	71	27		0.11	2.48	1957	
27	58	69	88	46	46	64	27		0.11	2.23	1957	
28	57	69	86	43	46	62	23		0.11	2.45	1925	
29	57	69	90	37	46	66	23		0.11	2.08	1913	
30	57	68	90	41	45	71	15		0.11	1.86	1917	
31	56	68	87	41	45	68	18		0.11	3.12	1982	
MONTH	62	74	98	37	51	76	15		0.12	5.45	1917	
											1959	

*The average number of Tornadoes in October for Oklahoma is 1.4.

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