

OKLAHOMA MONTHLY SUMMARY AUGUST 1996

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MONTHLY SUMMARY FOR AUGUST 1996

Most Oklahomans were treated to wet and cool weather during August. Above average rainfall and lower than normal temperatures were the feature, although some areas in northeastern Oklahoma still were showing the effects of the recent extended dry weather. Statewide-averaged precipitation was 5.49 inches, 2.67 inches greater than normal. This was the 6th greatest August precipitation total since records begin in 1892. Meanwhile, temperatures across the state averaged 78.0 degrees, 2.8 degrees lower than normal, making this the 12th coolest August in 105 years.

Annual-to-date precipitation for the state through August is 22.85 inches. The plentiful rains of July and August have brought the state total to only .29 inch below normal. The year-to-date precipitation ranks as the 49th lowest on record. The summer months total precipitation of 15.22 inches is 5.83 inches greater than normal, the 6th greatest summer precipitation on record. The state was still 4.02 inches short of normal precipitation since October 1, 1995 and the effects of the drought lingered in parts of the northeast where some precipitation totals since last October were as much as 15 inches lower than normal.

Despite the heat wave of early July, the summer average temperature of 79.0 degrees was 1.0 degree lower than normal and ranks as the 26th lowest summer temperature in Oklahoma. The year-to-date temperature of 62.1 degrees, 0.3 degree less than normal, ranks 40th on the low end of the all-time January through August temperature list.

Only two days during the month passed without at least one station reporting an inch or more of rain, and the greatest reports on those two days exceeded one-half inch. After the 8th cool, cloudy weather prevented the triple-digit temperatures that so frequently mark August in Oklahoma after the 8th. Even during the first week of the month, 100-degree-plus readings were confined mainly to those areas in southwestern Oklahoma that had not yet received their drought-breaking rains. Chattanooga (Comanche County) was the hot spot during that period, reporting daily maximum temperatures in excess of 100 degrees from the 2nd through the 7th, peaking at 106 degrees on the 4th.

Thunderstorm-related winds and hail affected parts of northwestern and central Oklahoma on the 1st, 2nd and 3rd. One and three-quarter inch hail was reported in Kingfisher County on the 2nd. Local flooding was reported at Woodward (Woodward) and the Cimarron River briefly overflowed its banks near Waynoka (Woods) on the 3rd. Local flooding was reported near Okeene (Blaine) on the 7th and in Cordell (Washita) and at Turner Falls (Murray) on the 9th.

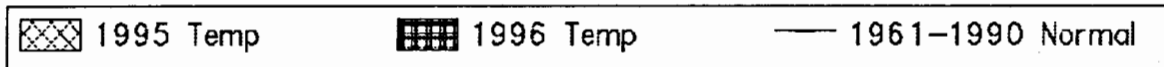
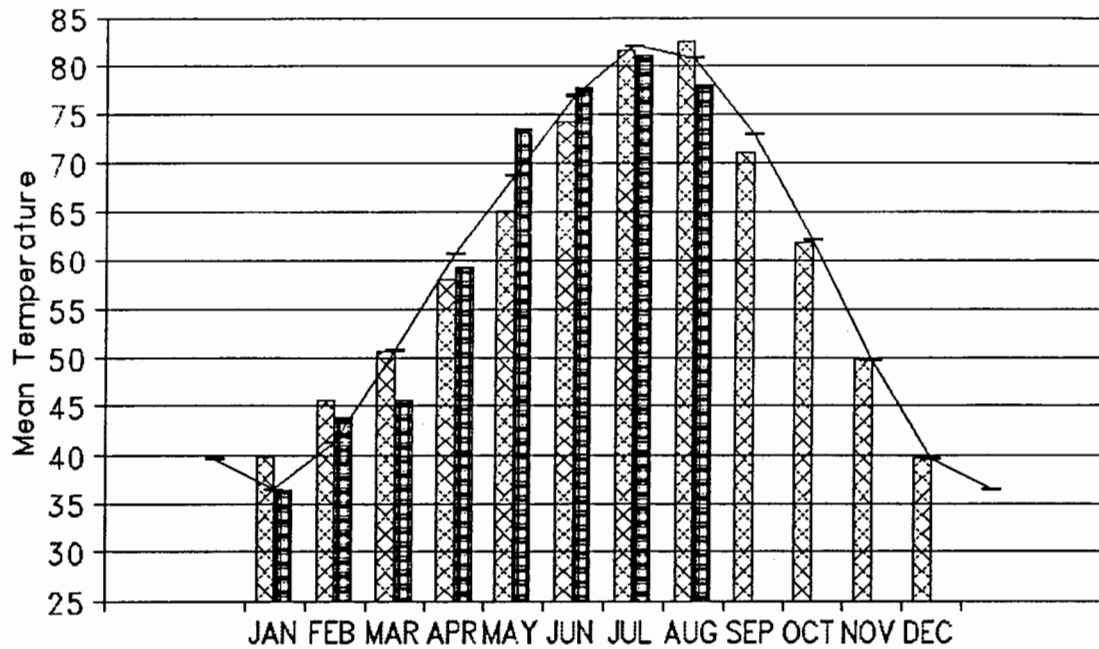
A small tornado touched ground just west of Walters on the 11th. The tornado was part of a storm system that dropped golfball-sized hail in Greer, Dewey, Custer and Stephens counties and produced very strong winds in the southwest.

Very strong thunderstorms on the 17th produced a small tornado west of Perry (Noble) and 6.68 inches of rain, accompanied by golfball-sized hail and 70 mile-per-hour winds at Pawhuska (Osage). A tornado was reported northwest of Cyril (Caddo) on the 22nd and large hail and strong winds peppered Owasso (Tulsa) on the 22nd.

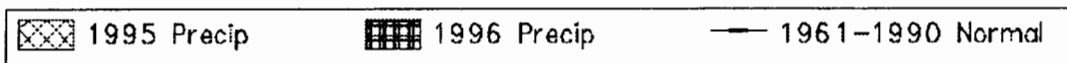
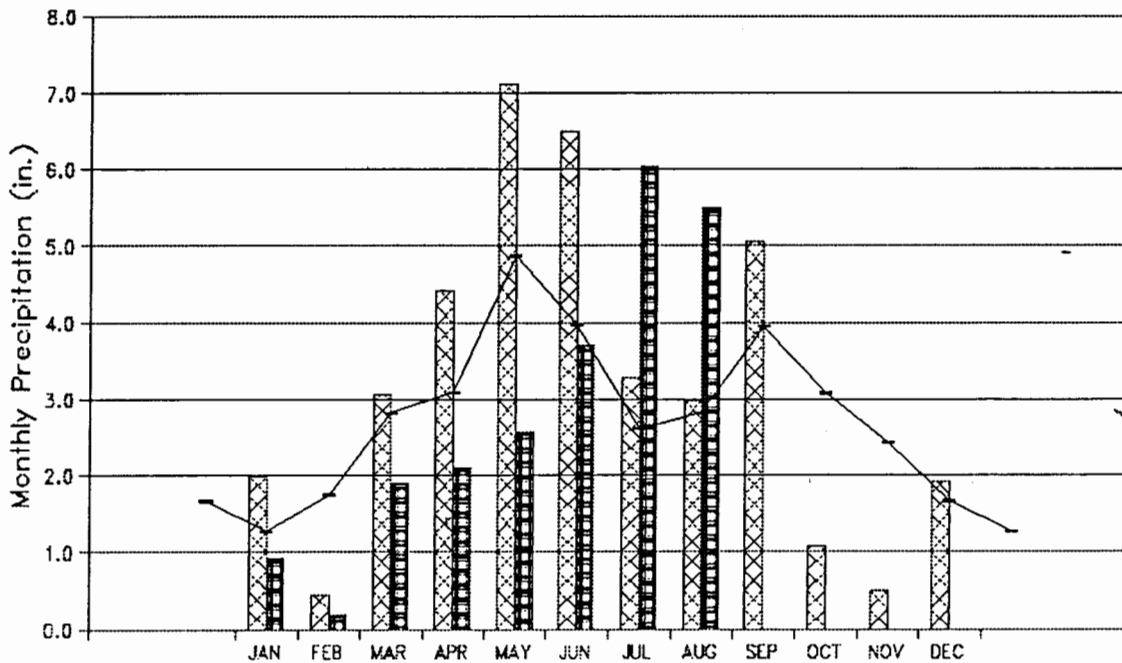
Locally heavy rain on the 28th caused flooding in and around Lawton (Comanche) and Granite (Greer). Bokchito (Bryan) also reported 5 inches of rain that day.

Howard L. Johnson

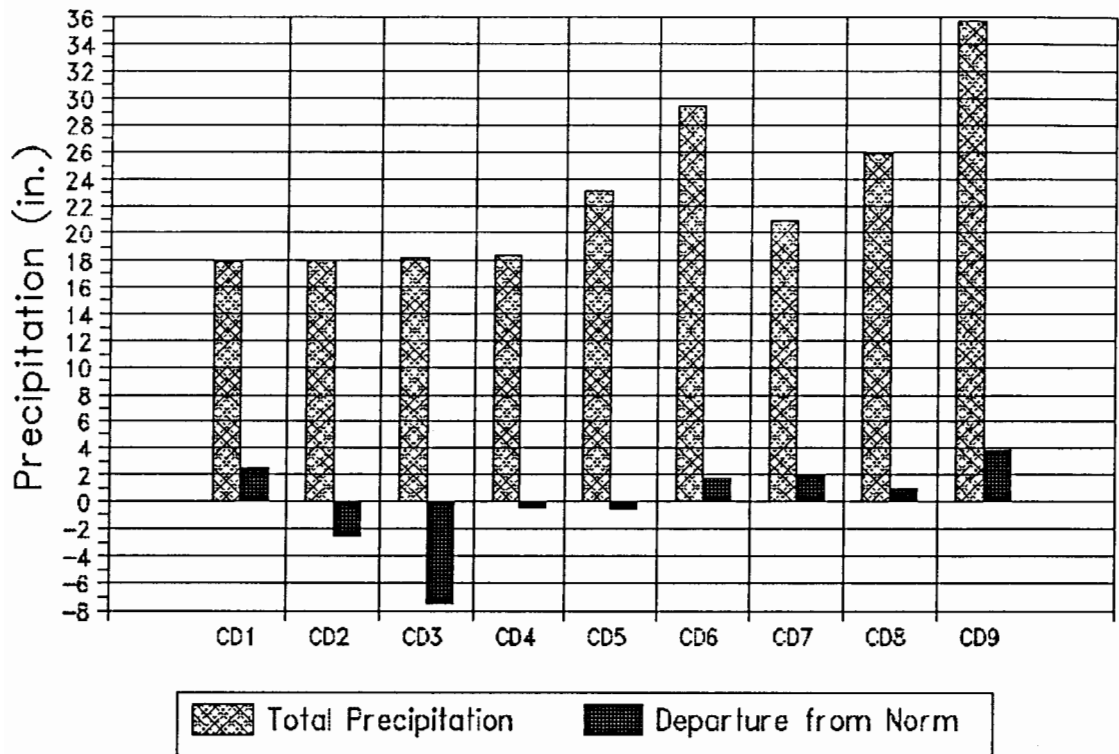
1995 and 1996 STATEWIDE TEMPERATURES Monthly Averages



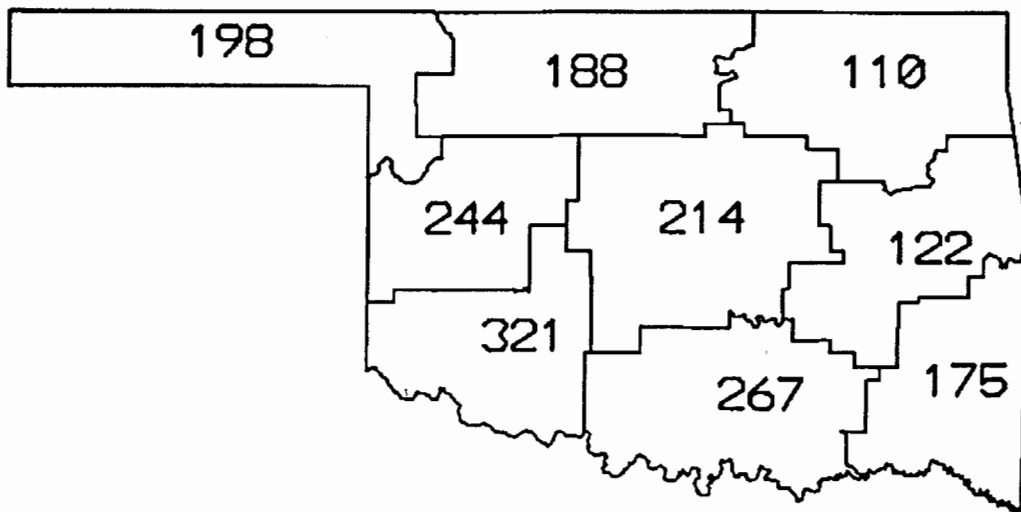
1995 and 1996 STATEWIDE PRECIPITATION Monthly Totals



CD Averaged Precipitation January through August 1996



CD PERCENT OF NORMAL PRECIPITATION



AUGUST 1996

**EXTREME VALUES OF TEMPERATURE AND PRECIPITATION IN EACH CLIMATE DIVISION
AUGUST, 1996**

CD	MAX TEMP	DATE	LOCATION	MIN TEMP	DATE	LOCATION	24-HOUR PRECIP	DATE	LOCATION	MONTHLY PRECIP	LOCATION
1	99	5	BUFFALO	55	12	BOISE CITY 2	3.02	27	FARGO	7.76	ARNETT
2	99 99	6 7	PONCA CITY F PONCA CITY F	55	13	FREEDOM	4.25	3	CHEROKEE	9.65	CHEROKEE
3	101 101	8 7	HULAH DAM UPPER SPAVIN	56	13	HULAH DAM	6.68	18	PAWHUSKA	8.86	PAWHUSKA
4	99 99 99	4 7 8	ERICK 4 E REYDON REYDON	56 56	13 13	ERICK 4 E TALOGA	4.05	29	CLINTON	12.37	CORDELL
5	97 97 97	5 6 7	CHICKASHA EX CHICKASHA EX CHICKASHA EX	58	28	CHANDLER	3.89	3	KINGFISHER 2	11.80	BLANCHARD 2
6	98	4	HOLDENVILLE	56	31	STILWELL 1 N	3.25	18	SHORT	6.29 6.29	HOLDENVILLE SALLISAW 2 N
7	106	4	CHATTANOOGA	56	13	WICHITA MT W	4.55	27	SEDAN	10.76	WILLOW
8	104	3	WAURIKA	51	25	MADILL	5.00	28	BOKCHITO	10.02	MARIETTA
9	97	10	BROKEN BOW D	36	16	HUGO	2.67	28	VALLIANT 3 W	9.64	VALLIANT 3 W

TABLE OF 1995/1996 COMPARISONS

Station	AUGUST Temperature (°F)		AUGUST Precipitation (in.)	
	1995	1996	1995	1996
Arnett	78.5	74.2	1.61	7.76
Mutual	****	75.5	****	6.56
Tulsa	84.6	79.7	1.44	0.95
Elk City	80.4	77.0	8.66	7.39
Oklahoma City	81.5	78.0	3.15	5.84
McAlester	84.6	78.0	0.45	1.00
Altus Irr Station	82.9	80.3	7.25	6.73
Ardmore	83.8	80.7	0.55	5.55
Idabel	****	76.8	****	5.74

EXTREMES

VARIABLE	STATION	DIVISION	OBSERVATION	DATE
Minimum temperature (°F)	Hugo	9	36	16
Maximum temperature (°F)	Chattanooga	7	106	4
Maximum 24-hour precipitation	Pawhuska	3	6.68"	18

AUGUST 1996 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	74.2	31	-4.4	93	6	58	14	0	0	286	-136	7.763	31	5.35	2.92	27
BEAVER	593	1	75.3	31	-3.3	97	4	59	12	0	0	319	-103	4.741	31	1.79	1.12	23
BOISE CITY	908	1	74.3	31	-1.2	96	6	55	12	0	0	288	-38	5.614	31	3.16	2.10	23
BUFFALO	1243	1	77.8	31	-3.5	99	5	61	15	0	0	398	-107	2.660	31	-0.80	0.95	8
FARGO	3070	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.931	31	3.22	3.02	27
GAGE	3407	1	76.0	31	-4.1	96	4	59	30	0	0	341	-128	5.271	31	2.75	1.70	26
GATE	3489	1	75.6	29	*****	95	5	61	12	0	*****	309	*****	6.691	31	3.81	2.41	20
GOODWELL	3628	1	74.7	30	-1.7	97	5	57	19	0	0	291	-62	5.431	30	*****	1.41	23
HOOKER	4298	1	74.9	31	-2.8	96	4	56	13	0	0	308	-86	5.332	31	3.02	1.66	24
KENTON	4766	1	73.5	31	-1.7	95	13	56	30	0	0	264	-56	2.442	31	-0.20	1.20	30
LAVERNE	5045	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.742	31	2.88	2.25	20
RANGE	7412	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.389	31	*****	1.60	9
REGNIER	7534	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.091	31	3.21	1.17	26
TURPIN	9017	1	72.9	27	*****	94	5	56	8	0	*****	215	*****	3.050	27	*****	1.06	1

AUGUST 1996 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	79.0	31	*****	98	19	61	13	0	*****	433	*****	4.970	31	*****	1.90	3
VANCE AFB	302	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.273	29	*****	1.26	10
BILLINGS	755	2	78.0	31	-3	94	7	58	14	0	0	403	-94	4.650	31	1.52	1.20	25
BLACKWELL 2E	818	2	78.1	29	*****	94	22	61	13	0	*****	380	*****	5.241	31	2.05	1.74	17
BRAMAN	1075	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.141	31	*****	1.14	20
CEDARDALE	1620	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	8.422	31	*****	2.03	21
CHEROKEE	1724	2	78.6	15	*****	97	19	63	20	0	*****	204	*****	9.651	28	*****	4.25	3
ENID	2912	2	78.6	31	-3.1	94	19	62	13	0	0	421	-98	3.560	31	0.38	0.91	3
FT SUPPLY	3304	2	75.5	26	*****	94	6	60	13	0	*****	273	*****	6.713	31	3.89	1.75	3
FREEDOM	3358	2	75.3	26	*****	96	6	55	13	0	*****	269	*****	7.451	31	4.45	1.78	3
GREAT SALT P	3740	2	78.2	23	*****	96	20	61	13	0	*****	304	*****	6.220	31	2.95	1.20	5
HARDY	3909	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.422	31	*****	1.83	8
HELENA	4019	2	78.0	31	-2.3	95	20	62	13	0	0	403	-72	6.181	31	3.42	2.00	3
JEFFERSON	4573	2	78.1	31	-3.6	96	22	58	13	0	0	407	-111	2.743	31	-0.49	0.68	20
LAMONT	5013	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.461	31	*****	2.25	27
MEDFORD	5768	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.562	31	*****	0.60	26
MORRISON	6065	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.200	31	*****	1.50	11
MUTUAL	6139	2	75.5	31	-4.5	94	20	59	13	0	0	326	-140	6.560	31	4.36	1.62	8
NEWKIRK	6278	2	78.4	31	-2.5	97	6	60	13	0	0	416	-78	3.010	31	-0.44	1.20	20
ORIENTA	6751	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.030	31	2.29	1.87	3
PERRY	7012	2	78.7	31	-3	94	8	62	13	0	0	426	-93	6.860	31	3.60	2.82	18
PONCA CITY	7201	2	81.3	31	0.5	99	7	64	13	0	0	506	16	3.882	30	*****	1.14	10
RED ROCK	7505	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.060	31	2.23	1.98	8
WAYNOKA	9404	2	78.5	30	-2.9	97	8	58	14	0	0	406	-103	8.710	31	5.79	2.09	3
WOODWARD	9760	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	9.171	31	6.26	2.64	3

AUGUST 1996 SUMMARY FOR NORTHEAST DIVISION (CD3)

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
BARNSDALL	535	3	78.8	29	*****	99	7	59	13	0	*****	400	*****	3.702	30	*****	1.60	27
BARTLESVILLE	548	3	79.9	31	-0.6	99	7	60	13	0	0	462	-19	6.071	31	2.92	1.64	18
BIXBY	782	3	79.3	29	*****	96	9	62	15	0	*****	414	*****	0.551	29	*****	0.30	11
BURBANK	1256	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.241	31	0.83	1.47	10
CHELSEA	1717	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.810	31	*****	0.84	25
CLAREMORE	1828	3	78.6	31	-1.1	96	8	61	14	0	0	422	-35	1.930	31	-1.14	1.02	26
CLEVELAND 2	1902	3	77.1	20	*****	93	21	62	23	0	*****	243	*****	1.960	22	*****	1.05	11
FORAKER	3250	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.470	31	2.01	2.47	10
HOLLOW	4258	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.734	31	1.52	1.67	17
HOMINY	4289	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.432	31	0.15	0.98	8
HULAH	4393	3	77.1	24	*****	101	8	56	13	0	*****	291	*****	2.721	26	*****	1.47	11
JAY TOWER	4567	3	78.8	15	*****	98	8	60	13	0	*****	207	*****	2.330	16	*****	1.58	26
KANSAS	4672	3	77.6	27	*****	97	6	62	14	0	*****	340	*****	1.560	29	*****	0.71	27
KEYSTONE	4812	3	76.7	31	-3	97	17	58	15	0	0	362	-95	4.362	31	1.49	1.70	27
LENAPAH	5118	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.430	30	*****	1.33	27
MANNFORD	5522	3	78.4	31	-2.4	96	7	58	12	0	0	416	-75	5.230	31	1.95	1.47	8
MARAMEC	5540	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	8.201	31	5.02	4.50	17
MIAMI	5855	3	78.3	27	*****	97	7	58	13	0	*****	360	*****	0.640	27	*****	0.26	5
NOWATA	6485	3	79.5	31	-1	99	8	62	14	0	0	450	-31	2.601	31	-0.72	1.35	27
OOLOGAH	6729	3	79.3	31	*****	97	8	62	15	0	*****	445	*****	0.922	31	*****	0.75	11
PAWHUSKA	6935	3	78.7	31	-1.5	97	7	59	13	0	0	425	-47	8.862	31	5.28	6.68	18
PAWNEE	6940	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.020	31	0.81	1.80	18
PRYOR	7309	3	79.0	29	*****	96	8	62	15	0	*****	407	*****	3.671	30	*****	1.21	27
RALSTON	7390	3	79.3	31	-1.2	98	8	60	13	0	0	444	-38	2.292	31	-1.02	1.30	11
SKIATOOK	8258	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.820	31	-1.34	0.83	11
SPAVINAW	8380	3	80.3	31	-0.5	95	7	63	12	0	0	475	-15	3.481	31	-0.43	3.02	27
TULSA	8992	3	79.7	31	-1.8	96	7	62	13	0	0	456	-57	0.954	31	-2.17	0.56	10
UPPER SPAV	9101	3	79.0	31	*****	101	7	58	13	0	*****	434	*****	2.333	31	*****	2.07	27
VINITA	9203	3	78.5	23	*****	96	7	58	27	0	*****	312	*****	4.780	23	*****	2.00	27
WAGONER	9247	3	79.5	31	-1.3	95	7	61	13	0	0	449	-41	0.862	31	-2.17	0.45	11
WANN	9298	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.160	31	*****	1.35	11
WYNONA	9792	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.690	31	*****	1.42	25

AUGUST 1996 SUMMARY FOR WEST CENTRAL DIVISION (CD4)

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
CANTON DAM	1445	4	76.7	31	-3.5	93	23	59	13	0	0	362	-109	5.004	31	2.59	2.47	23
CLINTON	1909	4	78.7	31	-3.7	97	4	60	13	0	0	424	-116	7.974	31	4.80	4.05	29
COLONY	2039	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	9.421	31	*****	3.05	10
CORDELL	2125	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	12.370	31	9.29	3.80	1
ELK CITY	2849	4	77.0	31	-3.1	96	23	59	13	0	0	372	-96	7.390	31	4.51	2.32	29
ERICK	2944	4	78.0	31	-2.1	99	4	56	13	0	0	402	-67	4.301	31	1.79	1.82	27
GEARY	3497	4	77.4	26	*****	93	4	59	14	0	*****	323	*****	4.330	28	*****	1.46	3
HAMMON	3871	4	74.8	12	*****	89	8	58	12	0	*****	118	*****	7.300	19	*****	1.94	28
LEEDEY	5090	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.200	31	2.65	1.35	8
MACKIE	5463	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.460	31	*****	1.44	1
MORAVIA	6035	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	8.351	31	5.84	2.31	8
OKEENE	6629	4	78.3	31	-3.6	95	22	61	14	0	0	414	-111	4.360	31	1.63	1.23	3
RETROP	7565	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.920	31	*****	1.50	29
REYDON	7579	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.290	31	1.96	1.70	7
SAYRE	7952	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	8.970	31	6.55	3.05	27
SWEETWATER	8652	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.801	31	*****	1.30	27
TALOGA	8708	4	77.3	31	-3	96	6	56	13	0	0	383	-92	3.372	31	0.94	1.35	3
THOMAS	8815	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.620	31	*****	2.60	27
VICI	9172	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.040	31	3.76	1.66	28
WATONGA	9364	4	77.6	31	-3.3	95	4	59	13	0	0	390	-103	5.144	31	2.85	1.71	3
WEATHERFORD	9422	4	77.8	30	-2.8	98	4	60	13	0	0	383	-99	4.570	30	*****	2.36	26

AUGUST 1996 SUMMARY FOR CENTRAL DIVISION (CD5)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV					HEAT		DEV		COOL		DEV		TOT PPT	NUM OBS	DEV	
					FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	DEG DAY	FROM NORM	DEG DAY	FROM NORM	DEG DAY	FROM NORM	DEG DAY	FROM NORM			MAX 24-HR	DAY
AMBER	200	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	8.380	31	*****	2.44	10			
BLANCHARD	830	5	77.7	26	*****	94	7	64	31	0	*****	330	*****	11.802	31	9.07	3.14	10			
BRISTOW	1144	5	78.3	31	-2.6	95	8	60	13	0	0	412	-81	1.463	31	-1.20	1.15	11			
CHANDLER	1684	5	79.1	27	*****	96	10	58	28	0	*****	381	*****	3.781	28	*****	1.50	11			
CHICKASHA	1750	5	79.3	31	-1.8	97	7	62	13	0	0	443	-56	7.570	31	4.81	2.09	17			
COX CITY	2196	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.940	31	*****	0.96	29			
CRESCENT	2242	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.210	31	*****	1.33	26			
CUSHING	2318	5	78.2	31	-2.5	95	8	64	13	0	0	410	-78	6.101	31	3.37	1.98	18			
EL RENO	2818	5	79.2	31	-1.7	95	7	62	13	0	0	441	-53	5.680	31	2.89	2.21	3			
GUTHRIE	3821	5	77.7	31	-4.5	96	1	59	14	0	0	393	-140	6.601	31	4.33	2.05	3			
HENNESSEY	4055	5	77.5	23	*****	96	7	60	29	0	*****	287	*****	6.240	27	*****	2.22	17			
INGALLS	4489	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.644	31	*****	1.85	11			
KINGFISHER	4861	5	78.5	30	-3.4	94	8	61	3	0	0	405	-120	6.340	31	3.64	3.89	3			
KONAWA	4915	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.760	31	5.77	3.00	2			
MARSHALL	5589	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.430	31	3.86	2.56	27			
MEEKER	5779	5	76.8	31	-4.5	92	7	61	13	0	0	365	-141	3.380	31	0.92	2.23	10			
MULHALL	6110	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.980	31	*****	2.02	11			
NORMAN NWS	6386	5	77.0	31	-4.2	92	7	62	13	0	0	374	-129	5.421	31	2.56	2.06	3			
OILTON	6616	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.401	31	*****	1.00	10			
OKEMAH	6638	5	79.6	31	-1.3	96	7	66	13	0	0	452	-41	2.152	31	-0.49	0.83	11			
OKLAHOMA CTY	6661	5	78.0	31	-3.1	93	7	63	13	0	0	402	-98	5.842	31	3.24	1.26	3			
PERKINS	7003	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.690	31	1.15	1.76	11			
PIEDMONT	7068	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.180	31	*****	2.19	3			
PRAGUE	7264	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.140	31	-0.29	1.42	14			
PURCELL	7327	5	78.0	31	-3.9	94	8	62	13	0	0	402	-123	7.591	31	4.90	1.60	3			
SEMINOLE	8042	5	79.1	31	-3.5	95	7	63	13	0	0	437	-109	7.661	31	5.02	2.75	29			
SHAWNEE	8110	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.600	31	2.10	1.90	11			
STELLA	8479	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	8.320	31	*****	3.51	10			
STILLWATER	8501	5	78.6	31	-1.7	94	8	61	23	0	0	423	-52	3.831	31	1.07	1.78	11			
STROUD	8563	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.951	31	*****	1.53	11			
TECUMSEH	8751	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	8.362	31	*****	2.35	29			
UNION CITY	9086	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.321	31	2.44	2.54	3			
WELTY	9479	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.131	31	*****	1.10	11			
WEWOKA	9575	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.060	31	4.29	2.67	18			

AUGUST 1996 SUMMARY FOR EAST CENTRAL DIVISION (CD6)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV					HEAT		DEV		COOL		DEV		TOT PPT	NUM OBS	DEV	
					FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	DEG DAY	FROM NORM	DEG DAY	FROM NORM	DEG DAY	FROM NORM	DEG DAY	FROM NORM			MAX 24-HR	DAY
ASHLAND	364	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.021	31	*****	1.93	3			
BEGGS	631	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.240	31	*****	0.83	11			
BOYNTON	1027	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.920	31	*****	0.90	27			
CALVIN	1391	6	****	0	*****	****	0	****	0	*****	*****	*****	*****	2.250	31	-0.16	0.80	12			
CHECOTAH	1711	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.292	31	-0.55	0.65	3			
CLAYTON	1858	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.220	31	*****	1.39	10			
DEWAR	2485	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.311	31	-0.20	0.74	18			
DUSTIN	2690	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.740	31	*****	0.98	12			
EUFAULA	2993	6	78.5	29	*****	96	7	64	13	0	*****	393	*****	6.140	29	*****	3.10	17			
HANNA	3884	6	77.8	31	-3.2	93	7	61	13	0	0	398	-99	2.801	31	0.24	1.16	18			
HARTSHORNE	3946	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.930	31	*****	1.61	27			
HASKELL	3956	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.950	31	-0.57	0.88	26			
HOLDENVILLE	4235	6	77.8	31	-3.7	98	4	63	14	0	0	398	-115	6.290	31	3.77	2.58	18			
LYONS	5437	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.710	31	0.55	2.68	17			
MCALESTER	5664	6	78.0	30	-3.3	92	7	62	13	0	0	390	-115	1.004	30	*****	0.43	17			
MCCURTAIN	5693	6	77.2	31	-4.2	94	7	59	15	0	0	379	-130	3.613	31	0.70	1.17	27			
MUSKOGEE	6130	6	78.8	30	-2.3	93	7	61	14	0	0	415	-85	1.900	30	*****	0.53	16			
OKMULGEE	6670	6	77.0	28	*****	95	7	60	13	0	*****	337	*****	2.141	28	*****	0.58	11			
OKTAHA	6678	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.580	31	*****	0.84	18			
QUINTON	7372	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.120	31	2.06	1.80	17			
SALLISAW	7862	6	76.8	31	-4.2	91	8	63	15	0	0	367	-130	6.290	31	2.90	2.47	18			
SCPIO	7979	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.570	31	*****	1.05	29			
SCRAPER	7993	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.700	31	*****	1.00	27			
SHORT	8170	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.280	31	*****	3.25	18			
STILWELL	8506	6	75.4	31	-3.4	92	7	56	31	0	0	323	-105	4.520	31	0.63	2.85	16			
TAHLEQUAH	8677	6	77.5	31	-2.3	92	8	60	14	0	0	387	-73	2.660	31	-1.05	1.26	18			
WEBBERS FALL	9445	6	77.2	29	*****	94	8	59	13	0	*****	355	*****	5.950	31	3.06	2.40	18			
WESTVILLE	9523	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.660	31	*****	1.83	18			

AUGUST 1996 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	80.3	31	-2.5	102	4	62	13	0	0	475	-77	6.730	31	4.28	2.16	27
ALTUS DAM	184	7	79.5	31	-3	102	5	61	13	0	0	449	-95	7.980	31	5.59	1.98	29
ANADARKO	224	7	78.6	28	*****	96	7	58	31	0	*****	382	*****	7.390	31	5.03	1.70	28
APACHE	260	7	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	6.230	31	3.80	1.32	27
ALTUS AFB	447	7	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	4.763	30	*****	1.51	1
CARNEGIE	1504	7	78.4	31	-3.4	97	7	61	13	0	0	416	-106	6.633	31	4.31	2.37	16
CHATTANOOGA	1706	7	81.2	31	-1.9	106	4	62	13	0	0	502	-60	8.730	31	6.05	2.79	26
DUNCAN 11 W	2668	7	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	5.011	31	*****	1.69	27
FREDERICK	3353	7	79.5	28	****	102	6	64	13	0	*****	405	*****	7.190	29	****	1.45	28
HEADRICK	3998	7	*****	0	****	****	0	****	0	*****	*****	*****	*****	7.640	31	****	1.57	25
HOBART	4204	7	79.5	24	*****	102	4	62	13	0	*****	349	*****	2.953	26	*****	1.46	28
HOLLIS	4249	7	79.0	31	-3.3	102	4	61	13	0	0	436	-101	6.310	31	3.87	1.39	8
LAWTON	5063	7	80.5	31	-1.8	102	5	63	13	0	0	482	-55	9.450	31	7.24	3.03	29
FORT SILL	5068	7	80.5	31	****	102	5	63	13	0	*****	482	*****	7.137	31	****	2.32	28
LOOKEBA	5329	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.212	31	3.63	1.75	3
MANGUM	5509	7	80.6	31	-2	100	7	61	13	0	0	484	-63	10.180	31	7.90	2.53	27
RANDLETT	7403	7	*****	0	****	****	0	****	0	*****	*****	*****	*****	7.401	31	****	3.13	30
ROOSEVELT	7727	7	*****	0	****	****	0	****	0	*****	*****	*****	*****	8.120	31	5.74	1.72	16
SEDAN	8016	7	*****	0	****	****	0	****	0	*****	*****	*****	*****	8.921	31	****	4.55	27
SNYDER	8299	7	*****	0	****	****	0	****	0	*****	*****	*****	*****	10.141	31	7.63	2.23	27
VINSON	9212	7	*****	0	****	****	0	****	0	*****	*****	*****	*****	3.150	31	0.86	0.88	29
WALTERS	9278	7	82.1	26	****	103	4	62	13	0	*****	444	*****	6.920	29	****	2.00	29
WICHITA MT	9629	7	77.6	31	-3.2	99	5	56	13	0	0	391	-100	9.742	31	7.58	3.20	27
WILLOW	9668	7	*****	0	****	****	0	****	0	*****	*****	*****	*****	10.761	31	****	3.02	27

AUGUST 1996 SUMMARY FOR SOUTH CENTRAL DIVISION (CD8)

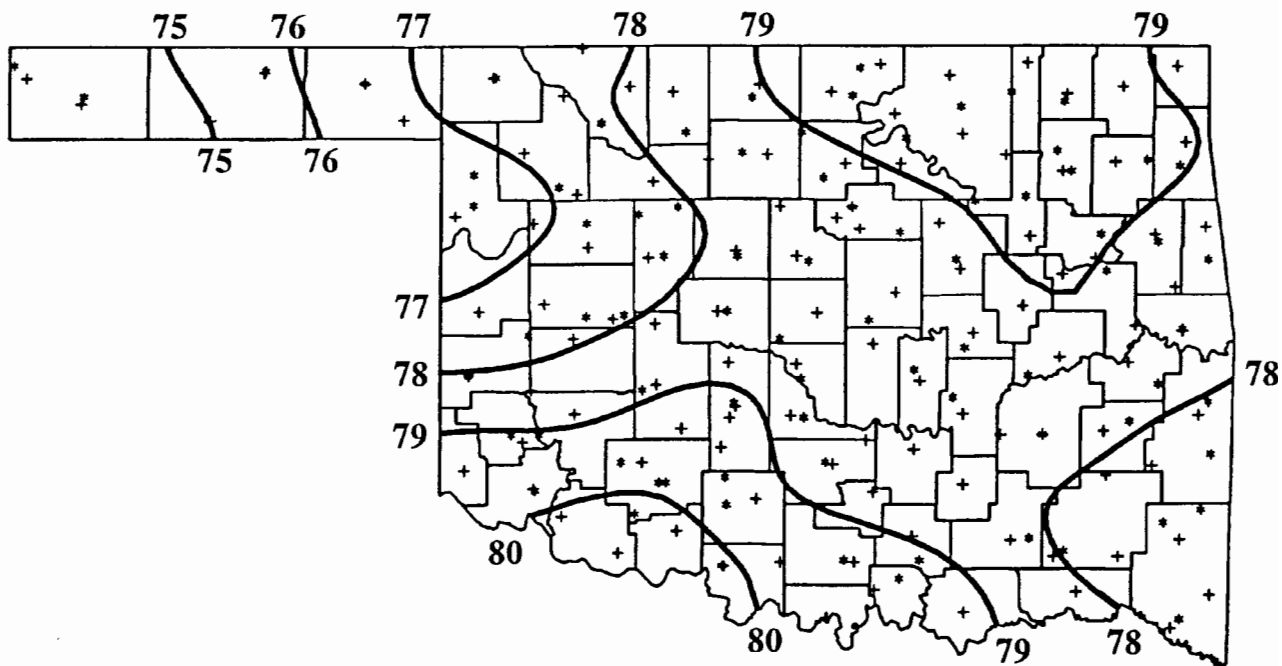
NAME	ID	CD	MEAN TEMP	NUM OBS	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
ADA	17	8	77.4	31	-3.9	92	7	62	13	0	0	386	-120	6.762	31	3.83	2.60	3
ALLEN	147	8	*****	0	****	****	0	****	0	*****	*****	*****	*****	6.000	30	****	1.60	11
ARDMORE	292	8	80.7	30	-2.8	100	6	66	31	0	0	470	-101	5.550	31	3.02	1.63	26
ATOKA DAM	394	8	79.2	22	****	94	9	64	15	0	*****	313	*****	5.850	22	****	1.60	27
BOKCHITO	917	8	*****	0	****	****	0	****	0	*****	*****	*****	*****	9.080	30	****	5.00	28
CENTRAHOMA	1648	8	*****	0	****	****	0	****	0	*****	*****	*****	*****	7.000	31	****	2.55	3
CHICKASAW	1745	8	77.6	29	****	93	8	60	13	0	*****	365	*****	7.100	29	****	1.98	29
COLEMAN	2011	8	*****	0	****	****	0	****	0	*****	*****	*****	*****	3.680	30	****	1.70	27
COMANCHE	2054	8	*****	0	****	****	0	****	0	*****	*****	*****	*****	8.300	31	5.55	2.60	29
DAISY	2354	8	*****	0	****	****	0	****	0	*****	*****	*****	*****	4.742	31	1.54	1.53	3
DUNCAN	2660	8	78.9	31	-3.2	97	8	64	13	0	0	431	-99	5.462	31	3.03	1.93	27
DURANT	2678	8	77.5	18	****	94	9	64	15	0	*****	225	*****	9.450	18	****	3.30	27
ELMORE CITY	2872	8	*****	0	****	****	0	****	0	*****	*****	*****	*****	9.180	31	****	1.93	27
GRADY	3688	8	*****	0	****	****	0	****	0	*****	*****	*****	*****	7.210	31	****	1.71	27
HEALDTON	4001	8	77.5	23	****	95	20	64	13	0	*****	289	*****	4.810	24	****	2.46	27
HENNEPIN	4052	8	*****	0	****	****	0	****	0	*****	*****	*****	*****	6.600	31	****	1.85	11
KETCHUM RAN	4780	8	*****	0	****	****	0	****	0	*****	*****	*****	*****	7.500	31	****	2.65	9
KINGSTON	4865	8	*****	0	****	****	0	****	0	*****	*****	*****	*****	9.400	31	6.80	2.00	27
LEHIGH	5108	8	*****	0	****	****	0	****	0	*****	*****	*****	*****	7.151	31	****	1.60	29
LINDSAY	5216	8	79.3	13	****	95	7	64	30	0	*****	186	*****	7.830	14	****	2.13	27
LOCO	5247	8	*****	0	****	****	0	****	0	*****	*****	*****	*****	5.250	31	****	2.52	27
MADILL	5468	8	78.2	30	-4.7	95	6	51	25	0	0	395	-158	6.720	31	4.14	1.74	26
MARIETTA	5563	8	80.2	26	****	100	5	64	31	0	*****	395	*****	10.021	30	****	2.44	29
MARLOW	5581	8	78.4	31	-3	98	5	59	13	0	0	416	-93	7.130	31	4.53	2.14	27
MCGEE CREEK	5713	8	78.0	31	****	95	9	60	12	0	*****	403	*****	7.671	31	****	2.04	29
PAULS VALLEY	6926	8	78.6	31	-3.8	96	7	61	13	0	0	423	-116	6.120	31	3.92	1.20	3
PONTOTOC	7214	8	*****	0	****	****	0	****	0	*****	*****	*****	*****	8.100	31	5.37	3.18	26
TISHOMINGO	8884	8	80.6	31	-1.9	97	6	62	31	0	0	483	-60	5.050	31	2.42	2.60	27
TUSSY	9032	8	*****	0	****	****	0	****	0	*****	*****	*****	*****	6.080	31	****	1.40	27
WAURIKA	9395	8	80.8	30	-2.5	104	3	63	13	0	0	474	-93	7.810	31	5.16	1.51	31
WAURIKA DAM	9399	8	80.6	27	****	102	6	65	18	0	*****	423	*****	5.723	31	****	1.49	29

AUGUST 1996 SUMMARY FOR THE SOUTHEAST DIVISION (CD9)

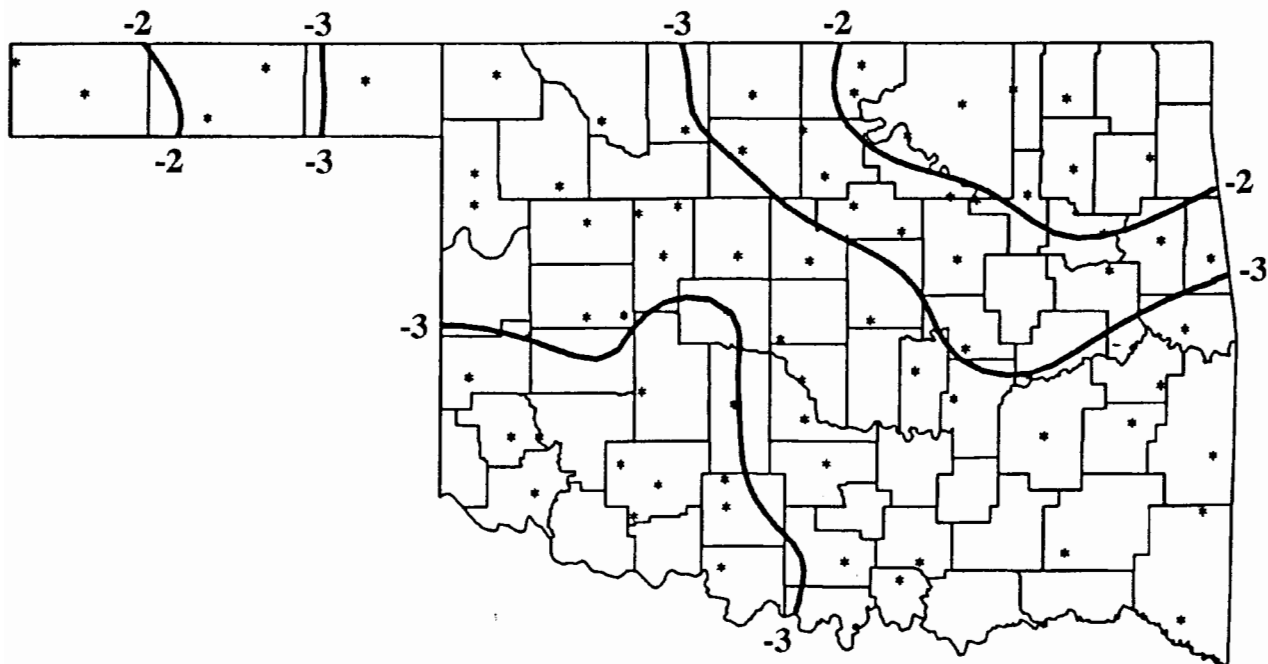
NAME	ID	CD	MEAN TEMP	NUM OBS	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
ANTLERS	256	9	78.0	31	-3.2	94	8	63	15	0	0	404	-98	*****	0	*****	*****	0
BATTIEST	567	9	74.1	31	*****	90	8	58	15	0	*****	283	*****	4.700	31	*****	1.00	10
BEAR MT	584	9	78.1	20	*****	94	9	63	15	0	*****	263	*****	7.350	25	*****	1.34	11
BENGAL	670	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.850	31	*****	1.47	27
BROKEN BOW	1162	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.430	31	3.50	1.98	9
BROKEN BOW D	1168	9	77.9	31	-2.3	97	10	60	31	0	0	401	-70	6.820	31	3.71	1.75	3
CARNASAW	1499	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.070	31	3.12	1.73	3
CARTER TWR	1544	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.060	31	-0.59	1.25	11
FANSHAWE	3065	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.040	31	-0.02	0.63	11
HEAVENER	4008	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.960	20	*****	1.47	26
HUGO	4384	9	71.7	30	-10.2	89	25	36	16	24	24	224	-298	5.210	31	2.54	1.73	16
IDABEL	4451	9	76.8	31	-3.7	93	21	61	15	0	0	367	-115	5.743	31	3.18	1.75	11
PINE CREEK	7080	9	76.5	31	*****	95	9	60	15	0	*****	358	*****	7.490	31	*****	1.37	11
POTEAU	7254	9	78.2	31	*****	95	9	61	17	0	*****	408	*****	4.942	31	*****	1.83	26
SMITHVILLE	8285	9	75.5	31	-3.1	91	9	59	16	0	0	326	-97	4.405	31	1.07	1.30	29
SPIRO	8416	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.981	31	2.65	1.84	18
VALLIANT	9118	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	9.641	31	7.18	2.67	28
WILBURTON	9634	9	77.7	31	-2.7	93	7	60	13	0	0	395	-83	3.663	31	0.56	1.60	26
ZOE	9985	9	75.3	31	-3.3	89	8	59	14	0	0	321	-102	5.310	31	2.12	1.84	27

AUGUST 1996 CLIMATE DIVISION SUMMARY

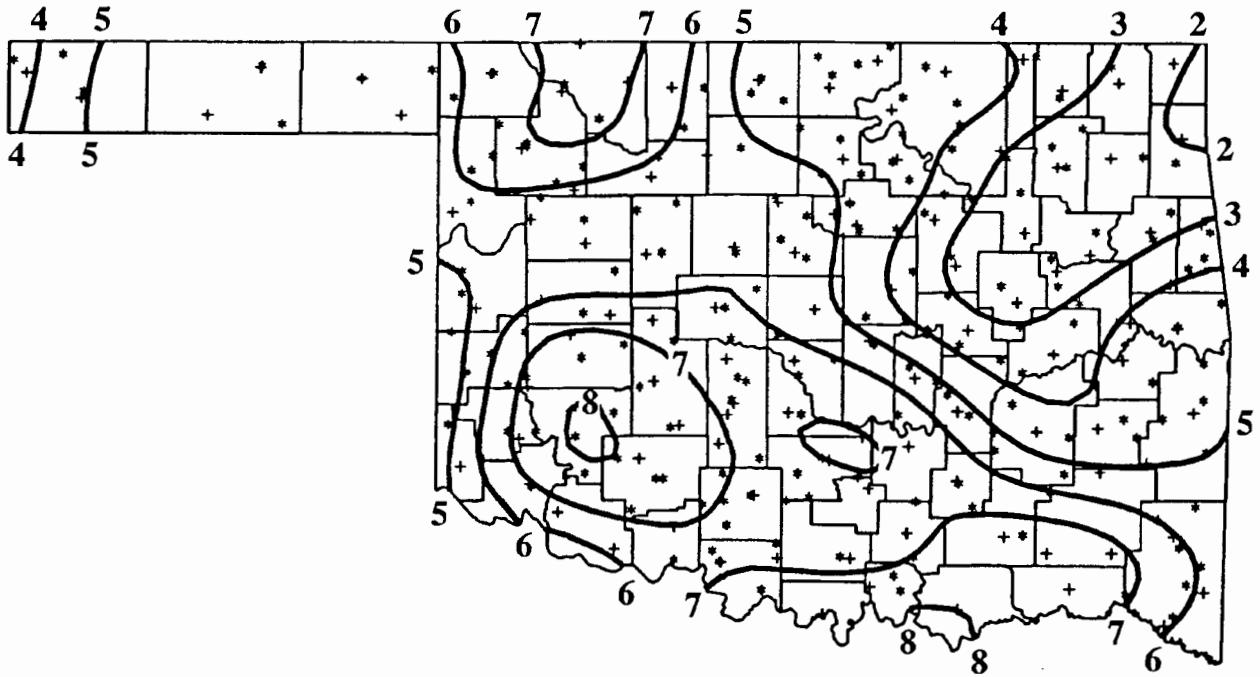
CD	MEAN TEMP	NUM STA	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEGREE DAYS	DEV FROM NORM	COOL DEGREE DAYS	DEV FROM NORM	TOT PPT	NUM STA	DEV FROM NORM	MAX 24-HR	DAY
1	75.1	8	-3	99	5	55	12	0	0	312	-96	5.140	12	2.54	3.02	27
2	78.4	10	-2.6	99	7	55	13	0	0	414	-81	5.420	22	2.41	4.25	3
3	79.1	12	-0.9	101	7	56	13	0	0	436	-28	3.660	22	0.33	6.68	18
4	77.7	8	-3	99	8	56	13	0	0	391	-95	6.280	18	3.68	4.05	29
5	78.3	13	-3	97	7	58	28	0	0	412	-94	5.620	32	2.99	3.89	3
6	77.4	8	-3.3	98	4	56	31	0	0	382	-106	3.570	24	0.65	3.25	18
7	79.7	9	-2.6	106	4	56	13	0	0	457	-79	7.690	20	5.27	4.55	27
8	79.1	9	-3.1	104	3	51	25	0	0	431	-102	6.840	22	4.25	5.00	28
9	76.2	10	-4.1	97	10	36	16	2	2	349	-126	5.460	16	2.46	2.67	28



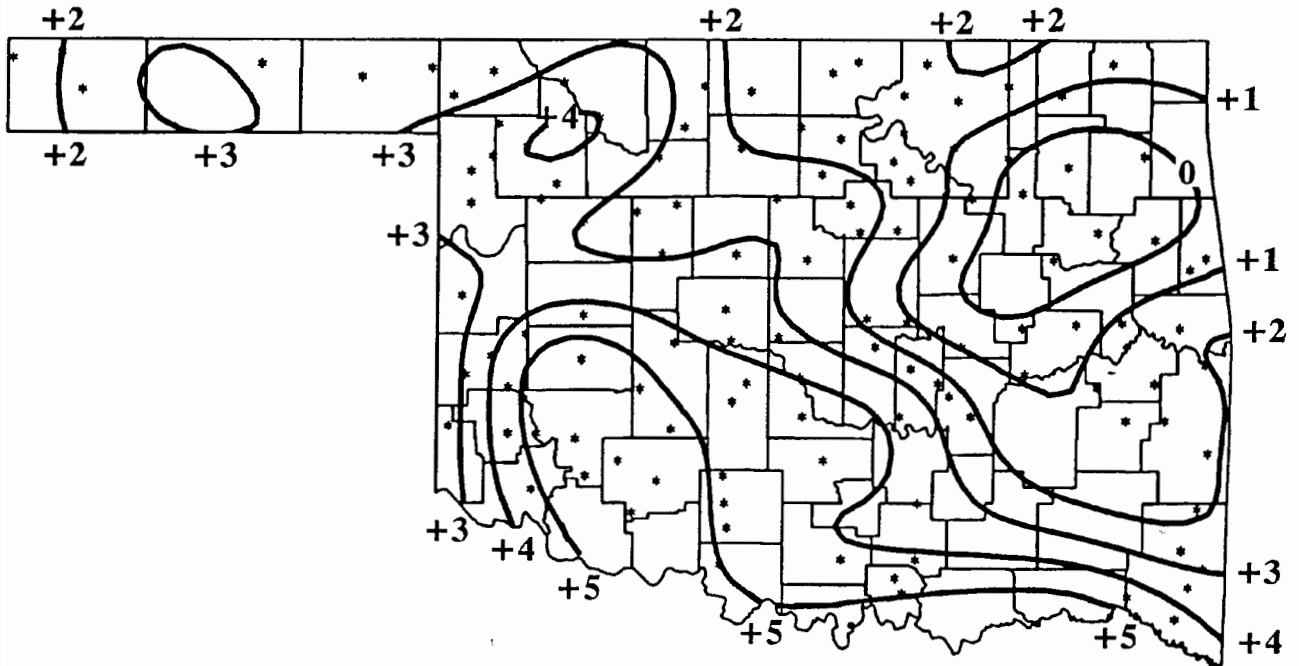
**AUGUST 1996 AVERAGE MONTHLY TEMPERATURES
(Degrees F)**



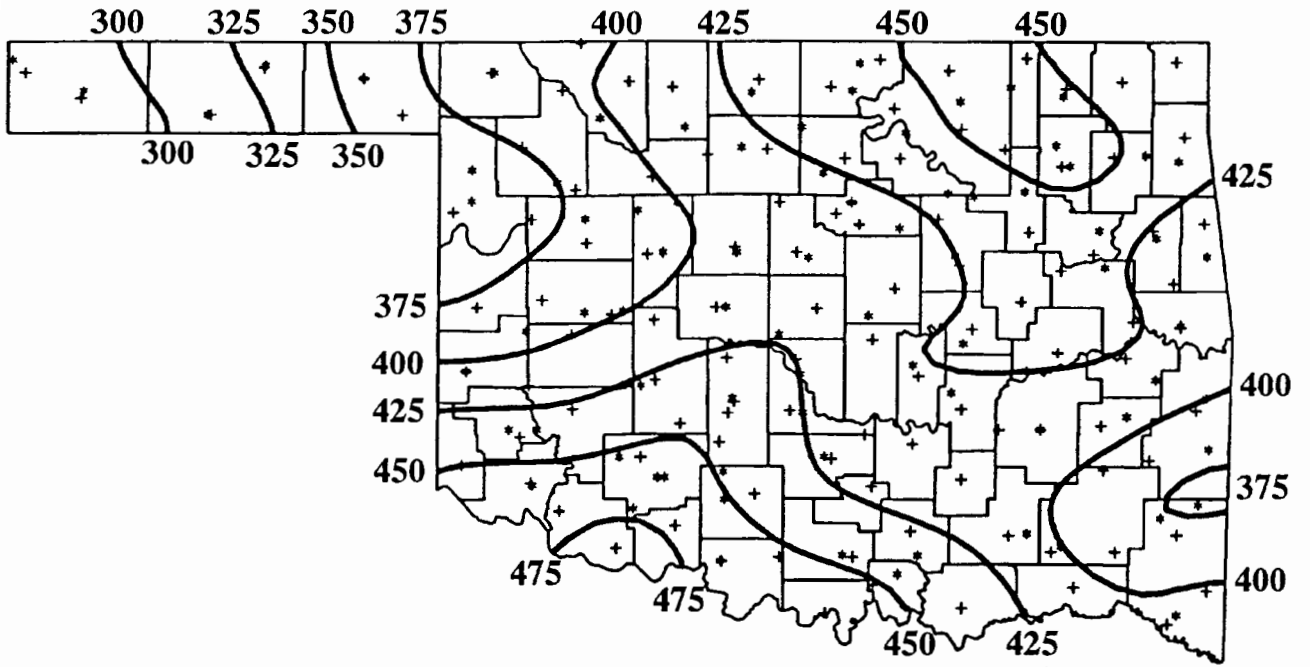
**AUGUST 1996 DEVIATION FROM NORMAL TEMPERATURES
(Degrees F)**



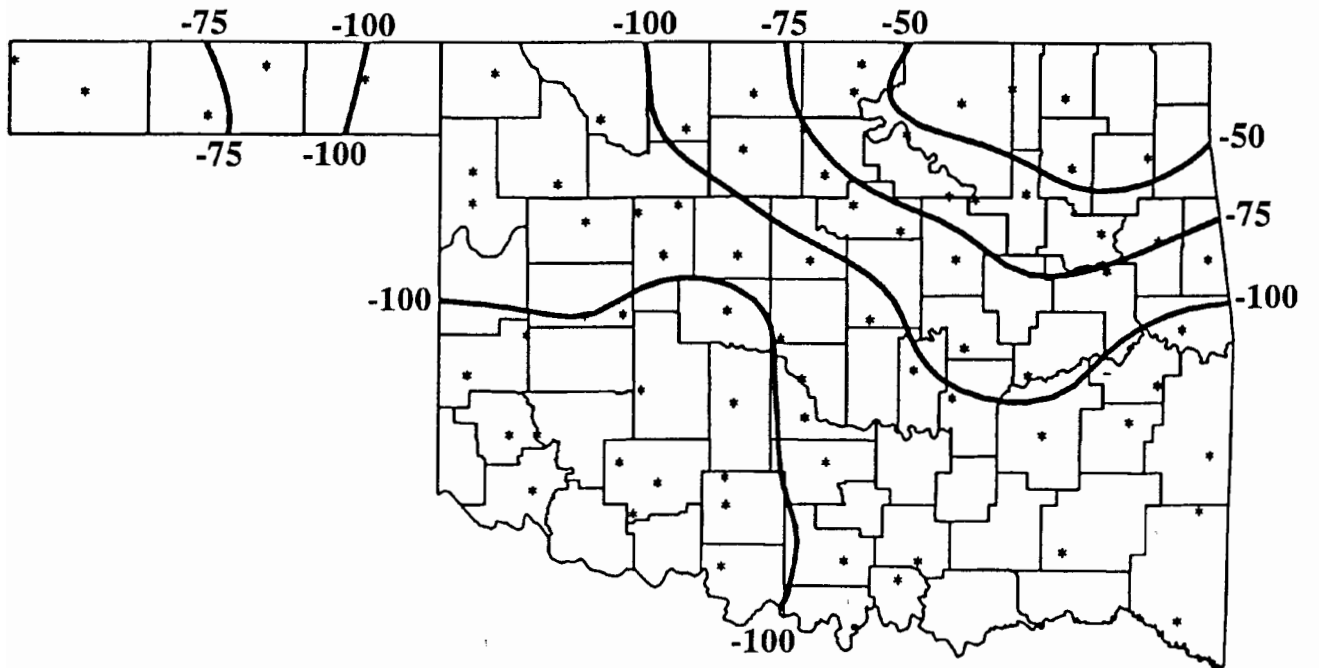
**AUGUST 1996 TOTAL PRECIPITATION
(Inches)**



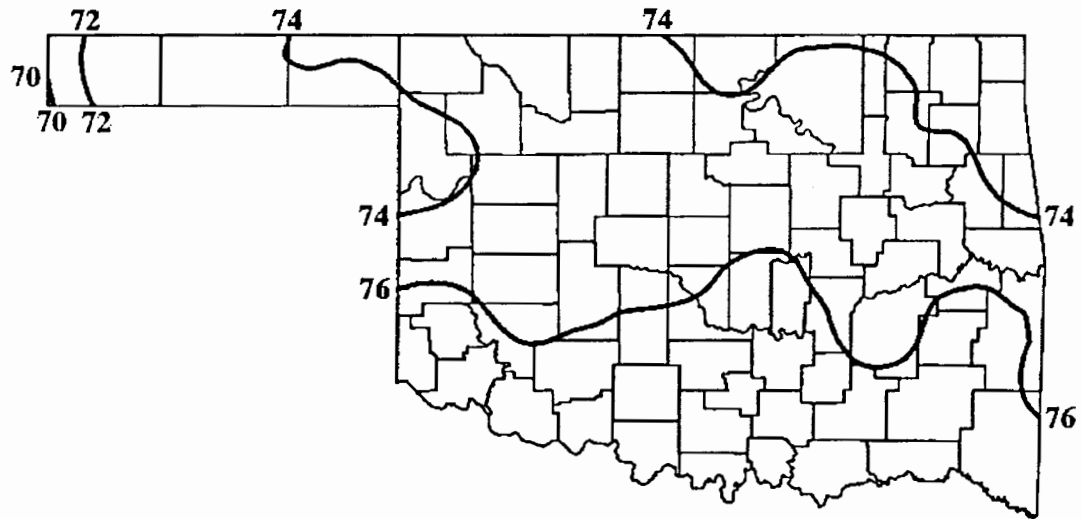
**AUGUST 1996 DEVIATION FROM NORMAL PRECIPITATION
(Inches)**



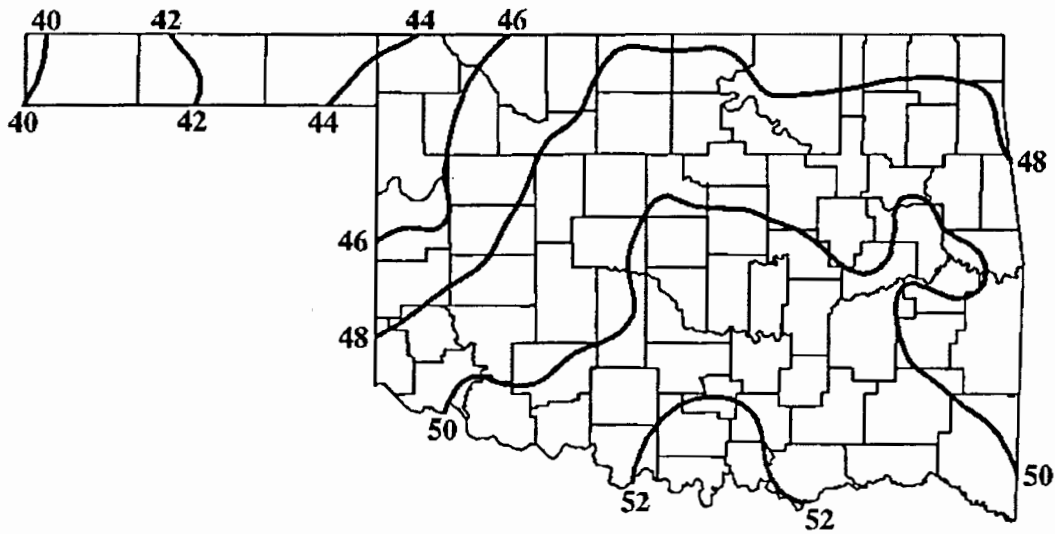
AUGUST 1996 COOLING DEGREE DAYS



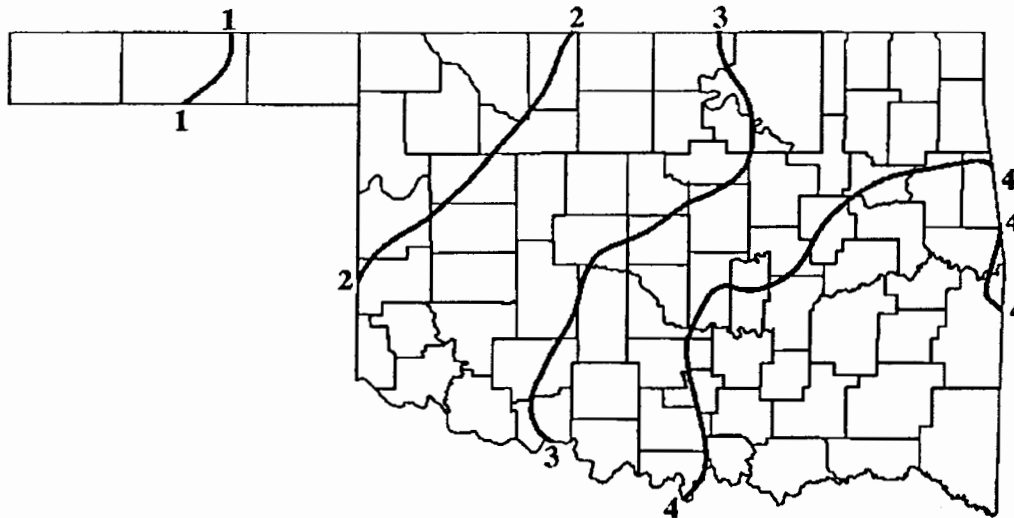
AUGUST 1996 DEVIATION FROM NORMAL COOLING DEGREE DAYS



October Normal Daily Maximum Temperatures (°F)



October Normal Daily Minimum Temperatures (°F)



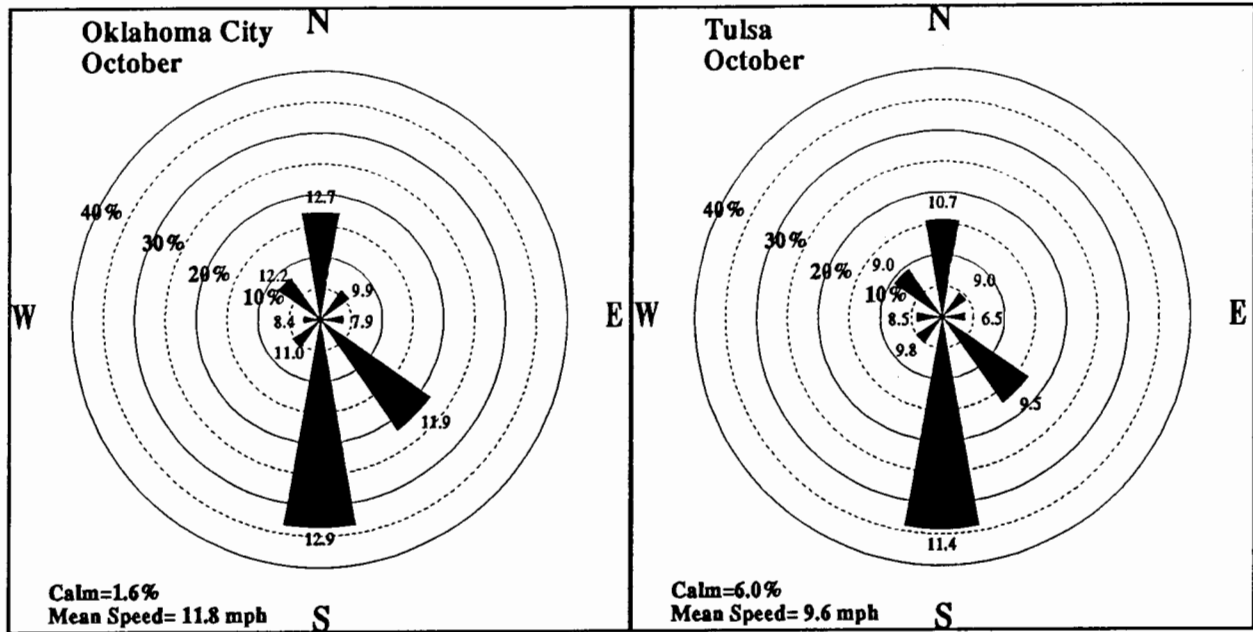
October Normal Monthly Precipitation (inches)

NATIONAL WEATHER SERVICE SEASONAL OUTLOOK

(October through December 1996)

**Precipitation - Greater Than Normal East
Near Normal Elsewhere**

Temperature - Near Normal Statewide



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

OCTOBER 1996 SUNRISE AND SUNSET

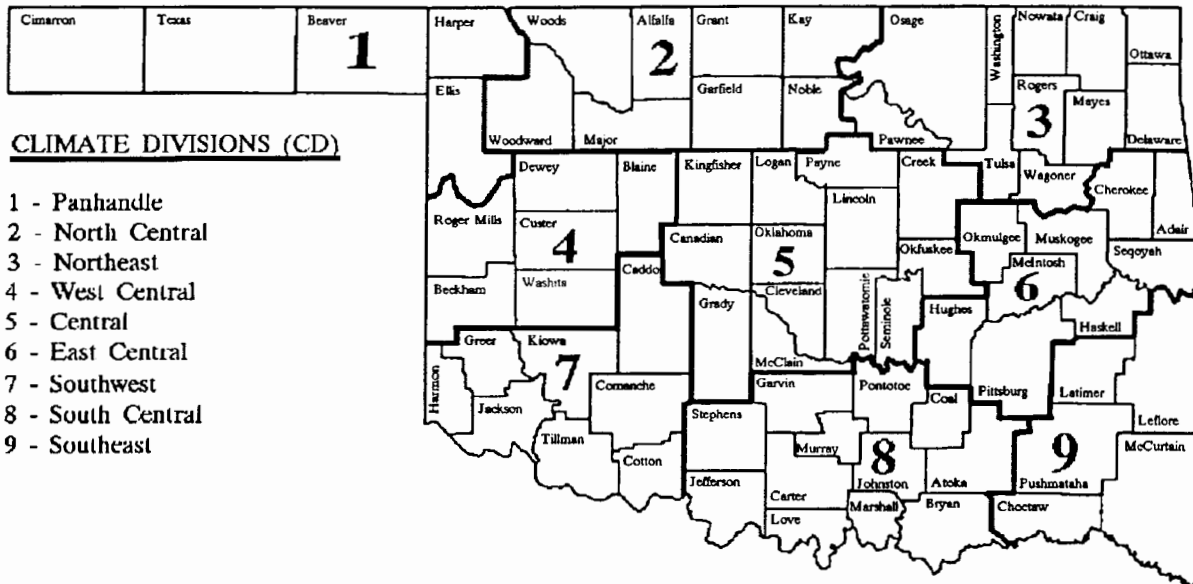
OKLAHOMA CITY

DATE	SUNRISE	SUNSET	DAYLIGHT
9610 1	7:24AM	7:14PM CDT	11 hrs 50 mins
9610 2	7:25AM	7:13PM CDT	11 hrs 48 mins
9610 3	7:26AM	7:11PM CDT	11 hrs 46 mins
9610 4	7:27AM	7:10PM CDT	11 hrs 43 mins
9610 5	7:28AM	7: 9PM CDT	11 hrs 41 mins
9610 6	7:28AM	7: 7PM CDT	11 hrs 39 mins
9610 7	7:29AM	7: 6PM CDT	11 hrs 37 mins
9610 8	7:30AM	7: 5PM CDT	11 hrs 35 mins
9610 9	7:31AM	7: 3PM CDT	11 hrs 32 mins
961010	7:32AM	7: 2PM CDT	11 hrs 30 mins
961011	7:32AM	7: 1PM CDT	11 hrs 28 mins
961012	7:33AM	6:59PM CDT	11 hrs 26 mins
961013	7:34AM	6:58PM CDT	11 hrs 24 mins
961014	7:35AM	6:57PM CDT	11 hrs 22 mins
961015	7:36AM	6:55PM CDT	11 hrs 19 mins
961016	7:37AM	6:54PM CDT	11 hrs 17 mins
961017	7:38AM	6:53PM CDT	11 hrs 15 mins
961018	7:39AM	6:52PM CDT	11 hrs 13 mins
961019	7:39AM	6:50PM CDT	11 hrs 11 mins
961020	7:40AM	6:49PM CDT	11 hrs 9 mins
961021	7:41AM	6:48PM CDT	11 hrs 7 mins
961022	7:42AM	6:47PM CDT	11 hrs 5 mins
961023	7:43AM	6:46PM CDT	11 hrs 3 mins
961024	7:44AM	6:45PM CDT	11 hrs 1 mins
961025	7:45AM	6:44PM CDT	10 hrs 59 mins
961026	7:46AM	6:43PM CDT	10 hrs 57 mins
961027	7:47AM	6:42PM CDT	10 hrs 55 mins
961028	7:48AM	6:40PM CDT	10 hrs 53 mins
961029	7:49AM	6:39PM CDT	10 hrs 51 mins
961030	7:50AM	6:38PM CDT	10 hrs 49 mins
961031	7:51AM	6:38PM CDT	10 hrs 47 mins

TULSA

DATE	SUNRISE	SUNSET	DAYLIGHT
9610 1	7:18AM	7: 7PM CDT	11 hrs 49 mins
9610 2	7:19AM	7: 6PM CDT	11 hrs 47 mins
9610 3	7:19AM	7: 4PM CDT	11 hrs 45 mins
9610 4	7:20AM	7: 3PM CDT	11 hrs 43 mins
9610 5	7:21AM	7: 1PM CDT	11 hrs 40 mins
9610 6	7:22AM	7: 0PM CDT	11 hrs 38 mins
9610 7	7:23AM	6:59PM CDT	11 hrs 36 mins
9610 8	7:24AM	6:57PM CDT	11 hrs 34 mins
9610 9	7:24AM	6:56PM CDT	11 hrs 31 mins
961010	7:25AM	6:55PM CDT	11 hrs 29 mins
961011	7:26AM	6:53PM CDT	11 hrs 27 mins
961012	7:27AM	6:52PM CDT	11 hrs 25 mins
961013	7:28AM	6:51PM CDT	11 hrs 23 mins
961014	7:29AM	6:49PM CDT	11 hrs 20 mins
961015	7:30AM	6:48PM CDT	11 hrs 18 mins
961016	7:31AM	6:47PM CDT	11 hrs 16 mins
961017	7:32AM	6:45PM CDT	11 hrs 14 mins
961018	7:32AM	6:44PM CDT	11 hrs 12 mins
961019	7:33AM	6:43PM CDT	11 hrs 9 mins
961020	7:34AM	6:42PM CDT	11 hrs 7 mins
961021	7:35AM	6:40PM CDT	11 hrs 5 mins
961022	7:36AM	6:39PM CDT	11 hrs 3 mins
961023	7:37AM	6:38PM CDT	11 hrs 1 mins
961024	7:38AM	6:37PM CDT	10 hrs 59 mins
961025	7:39AM	6:36PM CDT	10 hrs 57 mins
961026	7:40AM	6:35PM CDT	10 hrs 55 mins
961027	7:41AM	6:34PM CDT	10 hrs 53 mins
961028	7:42AM	6:33PM CDT	10 hrs 51 mins
961029	7:43AM	6:32PM CDT	10 hrs 49 mins
961030	7:44AM	6:31PM CDT	10 hrs 47 mins
961031	7:45AM	6:30PM CDT	10 hrs 45 mins

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

OCTOBER 1996

The data on this calendar are for Tulsa. Normal values are calculated for the period 1948-1992; Temperature extremes are for the period 1905-1994; precipitation extremes are for the period 1948-1994.

Normal	1 Actual	Normal	2 Actual	Normal	3 Actual	Normal	4 Actual	Normal	5 Actual	Normal	6 Actual	Normal	7 Actual
81.0 max 54.0 min .08 ppt 2 rdd 5 cdd	81.0 max 56.0 min .18 ppt 5 rdd 5 cdd	80.0 max 56.0 min .05 ppt 2 rdd 5 cdd	80.0 max 56.0 min .12 ppt 2 rdd 5 cdd	78.0 max 53.0 min .18 ppt 2 rdd 4 cdd	77.0 max 53.0 min .12 ppt 3 rdd 3 cdd	77.0 max 53.0 min .09 ppt 3 rdd 4 cdd	77.0 max 53.0 min .19 ppt 3 rdd 3 cdd						
Highest Max 97.1910 Lowest Max 62.1995 Lowest Min 38.1985 Highest Min 66.1971 Greatest ppt 2.95.1986	Highest Max 96.1978 Lowest Max 65.1995 Lowest Min 39.1975 Highest Min 73.1954 Greatest ppt 5.45.1956	Highest Max 95.1963 Lowest Max 63.1959 Lowest Min 39.1997 Highest Min 74.1993 Greatest ppt 1.46.1990	Highest Max 97.1991 Lowest Max 64.1950 Lowest Min 39.1998 Highest Min 70.1954 Greatest ppt 2.17.1955	Highest Max 95.1947 Lowest Max 50.1988 Lowest Min 37.1954 Highest Min 73.1981 Greatest ppt 2.17.1970	Highest Max 98.1939 Lowest Max 57.1988 Lowest Min 35.1932 Highest Min 68.1990 Greatest ppt 3.24.1951	Highest Max 98.1979 Lowest Max 52.1988 Lowest Min 33.1952 Highest Min 67.1970 Greatest ppt 1.12.1992	Highest Max 92.1963 Lowest Max 59.1974 Lowest Min 34.1937 Highest Min 60.1968 Greatest ppt 1.95.1984						
Normal 8 Actual	Normal 9 Actual	Normal 10 Actual	Normal 11 Actual	Normal 12 Actual	Normal 13 Actual	Normal 14 Actual							
77.0 max 53.0 min .06 ppt 3 rdd 3 cdd	78.0 max 53.0 min .03 ppt 3 rdd 4 cdd	77.0 max 52.0 min .03 ppt 4 rdd 3 cdd	78.0 max 52.0 min .17 ppt 4 rdd 3 cdd	76.0 max 54.0 min .18 ppt 3 rdd 4 cdd	77.0 max 54.0 min .09 ppt 3 rdd 4 cdd	77.0 max 53.0 min .19 ppt 3 rdd 3 cdd							
Highest Max 97.1979 Lowest Max 56.1990 Lowest Min 32.1952 Highest Min 72.1979 Greatest ppt 1.61.1970	Highest Max 97.1983 Lowest Max 53.1990 Lowest Min 32.1917 Highest Min 70.1973 Greatest ppt .91.1969	Highest Max 95.1963 Lowest Max 57.1993 Lowest Min 30.1925 Highest Min 72.1973 Greatest ppt .61.1949	Highest Max 94.1979 Lowest Max 50.1987 Lowest Min 30.1906 Highest Min 69.1992 Greatest ppt 2.20.1979	Highest Max 94.1978 Lowest Max 49.1986 Lowest Min 32.1921 Highest Min 71.1982 Greatest ppt 3.37.1959	Highest Max 92.1963 Lowest Max 54.1986 Lowest Min 32.1917 Highest Min 71.1956 Greatest ppt 1.30.1981	Highest Max 92.1963 Lowest Max 59.1974 Lowest Min 34.1937 Highest Min 60.1968 Greatest ppt 1.95.1984							
Normal 15 Actual	Normal 16 Actual	Normal 17 Actual	Normal 18 Actual	Normal 19 Actual	Normal 20 Actual	Normal 21 Actual							
75.0 max 52.0 min .10 ppt 4 rdd 3 cdd	74.0 max 50.0 min .05 ppt 2 rdd 5 cdd	75.0 max 49.0 min .04 ppt 2 rdd 5 cdd	74.0 max 49.0 min .14 ppt 5 rdd 2 cdd	73.0 max 48.0 min .08 ppt 6 rdd 2 cdd	74.0 max 49.0 min .30 ppt 5 rdd 2 cdd	74.0 max 49.0 min .13 ppt 5 rdd 2 cdd							
Highest Max 91.1963 Lowest Max 60.1970 Lowest Min 38.1966 Highest Min 69.1968 Greatest ppt 1.36.1967	Highest Max 93.1917 Lowest Max 58.1976 Lowest Min 32.1966 Highest Min 69.1965 Greatest ppt .69.1984	Highest Max 90.1947 Lowest Max 52.1966 Lowest Min 30.1976 Highest Min 66.1988 Greatest ppt .71.1993	Highest Max 91.1992 Lowest Max 51.1989 Lowest Min 29.1948 Highest Min 66.1979 Greatest ppt 1.94.1960	Highest Max 89.1940 Lowest Max 50.1976 Lowest Min 27.1917 Highest Min 73.1979 Greatest ppt 1.73.1989	Highest Max 91.1979 Lowest Max 53.1972 Lowest Min 30.1976 Highest Min 76.1979 Greatest ppt 4.96.1971	Highest Max 92.1978 Lowest Max 53.1994 Lowest Min 30.1917 Highest Min 66.1963 Greatest ppt 2.99.1972							
Normal 22 Actual	Normal 23 Actual	Normal 24 Actual	Normal 25 Actual	Normal 26 Actual	Normal 27 Actual	Normal 28 Actual							
73.0 max 50.0 min .16 ppt 5 rdd 1 cdd	70.0 max 49.0 min .09 ppt 6 rdd 1 cdd	69.0 max 46.0 min .05 ppt 8 rdd 1 cdd	69.0 max 46.0 min .11 ppt 8 rdd 1 cdd	71.0 max 46.0 min .06 ppt 7 rdd 1 cdd	70.0 max 46.0 min .11 ppt 8 rdd 1 cdd	69.0 max 45.0 min .12 ppt 8 rdd 0 cdd							
Highest Max 88.1963 Lowest Max 57.1984 Lowest Min 31.1911 Highest Min 63.1953 Greatest ppt 1.20.1953	Highest Max 92.1939 Lowest Max 50.1981 Lowest Min 26.1927 Highest Min 70.1991 Greatest ppt 1.24.1970	Highest Max 89.1921 Lowest Max 50.1972 Lowest Min 24.1917 Highest Min 65.1969 Greatest ppt .93.1984	Highest Max 91.1939 Lowest Max 48.1957 Lowest Min 31.1925 Highest Min 66.1993 Greatest ppt 1.43.1954	Highest Max 90.1950 Lowest Max 46.1957 Lowest Min 27.1957 Highest Min 60.1991 Greatest ppt 1.61.1991	Highest Max 88.1922 Lowest Max 51.1970 Lowest Min 27.1957 Highest Min 64.1984 Greatest ppt 1.35.1979	Highest Max 86.1922 Lowest Max 43.1980 Lowest Min 23.1925 Highest Min 62.1991 Greatest ppt 2.45.1974							
Normal 29 Actual	Normal 30 Actual	Normal 31 Actual											
69.0 max 46.0 min .14 ppt 8 rdd 1 cdd	70.0 max 48.0 min .19 ppt 7 rdd 1 cdd	69.0 max 46.0 min .18 ppt 7 rdd 1 cdd											
Highest Max 90.1950 Lowest Max 46.1976 Lowest Min 23.1913 Highest Min 66.1961 Greatest ppt 1.29.1967	Highest Max 90.1937 Lowest Max 41.1993 Lowest Min 15.1917 Highest Min 64.1977 Greatest ppt 1.73.1974	Highest Max 87.1950 Lowest Max 41.1991 Lowest Min 18.1993 Highest Min 68.1982 Greatest ppt 3.12.1981											

OCTOBER AVERAGES

TEMPERATURE : 62.6°F

PRECIPITATION : 3.59"

HEATING DEGREE DAYS : 146

COOLING DEGREE DAYS : 78

OKLAHOMA CITY CLIMATE CALENDAR

OCTOBER 1996

The data on this calendar are for Oklahoma City.
 Normal values are calculated for the period
 1961-1990. Extremes are found for the period
 of record (1891-present).

Normal 1 Actual	80.2 max 54.6 min .08 ppt 5 cdd	Normal 2 Actual	80.3 max 55.6 min .26 ppt 5 cdd	Normal 3 Actual	79.2 max 55.9 min .18 ppt 4 cdd	Normal 4 Actual	77.8 max 55.9 min 1.0 ppt 4 cdd	Normal 5 Actual	77.7 max 55.3 min 1.0 ppt 4 cdd	Normal 6 Actual	74.8 max 53.8 min .08 ppt 3 cdd	Normal 7 Actual	75.5 max 52.2 min .08 ppt 2 cdd
Highest Max	97-1938	Highest Max	97-1951	Highest Max	96-1951	Highest Max	96-1991	Highest Max	95-1947	Highest Max	94-1939		
Lowest Min	61-1995	Lowest Min	57-1902	Lowest Min	56-1959	Lowest Min	51-1902	Lowest Min	53-1988	Lowest Min	55-1991		
Highest Ppt	38-1958	Highest Ppt	41-1975	Highest Ppt	40-1975	Highest Ppt	40-1891	Highest Ppt	38-1932	Lowest Ppt	40-1976		
Lowest Ppt	74-1911	Lowest Ppt	73-1911	Lowest Ppt	73-1954	Lowest Ppt	75-1911	Lowest Ppt	69-1981	Highest Ppt	32-1952		
Greatest Ppt	2.28-1959	Greatest Ppt	4.52-1955	Greatest Ppt	1.55-1991	Greatest Ppt	2.22-1955	Greatest Ppt	1.74-1970	Greatest Ppt	73-1939		
Normal 8 Actual	76.0 max 53.5 min .05 ppt 3 cdd	Normal 9 Actual	77.1 max 52.8 min .08 ppt 3 cdd	Normal 10 Actual	76.9 max 52.4 min .04 ppt 3 cdd	Normal 11 Actual	76.5 max 51.5 min 1.1 ppt 4 cdd	Normal 12 Actual	76.6 max 53.4 min .05 ppt 4 cdd	Normal 13 Actual	77.4 max 53.8 min .06 ppt 4 cdd	Normal 14 Actual	76.2 max 52.9 min .08 ppt 3 cdd
Highest Max	94-1979	Highest Max	96-1965	Highest Max	95-1965	Highest Max	94-1979	Highest Max	94-1978	Highest Max	90-1863		
Lowest Min	50-1970	Lowest Min	52-1909	Lowest Min	48-1985	Lowest Min	51-1987	Lowest Min	47-1986	Lowest Min	52-1969		
Highest Ppt	35-1976	Highest Ppt	34-1892	Lowest Ppt	35-1979	Lowest Ppt	35-1896	Lowest Ppt	34-1987	Lowest Ppt	36-1893		
Lowest Ppt	71-1949	Lowest Ppt	72-1949	Highest Ppt	71-1973	Highest Ppt	66-1972	Highest Ppt	70-1928	Highest Ppt	72-1990		
Greatest Ppt	90-1978	Greatest Ppt	2.09-1961	Greatest Ppt	94-1985	Greatest Ppt	1.89-1991	Greatest Ppt	1.89-1991	Greatest Ppt	1.44-1923		
Normal 15 Actual	74.2 max 52.4 min .09 ppt 4 cdd	Normal 16 Actual	74.6 max 50.0 min .06 ppt 5 cdd	Normal 17 Actual	73.2 max 49.3 min .07 ppt 5 cdd	Normal 18 Actual	72.1 max 49.1 min 1.5 ppt 5 cdd	Normal 19 Actual	71.6 max 47.3 min 1.4 ppt 1 cdd	Normal 20 Actual	72.0 max 48.4 min .23 ppt 6 cdd	Normal 21 Actual	71.8 max 48.8 min 1.5 ppt 1 cdd
Highest Max	92-1962	Highest Max	95-1917	Highest Max	96-1972	Highest Max	91-1932	Highest Max	92-1894	Highest Max	93-1979		
Lowest Min	54-1914	Lowest Min	54-1941	Lowest Min	51-1925	Lowest Min	50-1989	Lowest Min	46-1925	Lowest Min	42-1910		
Highest Ppt	38-1974	Highest Ppt	31-1977	Lowest Ppt	33-1976	Lowest Ppt	33-1898	Lowest Ppt	25-1917	Lowest Ppt	26-1976		
Lowest Ppt	68-1968	Highest Ppt	67-1965	Highest Ppt	68-1934	Highest Ppt	67-1994	Highest Ppt	69-1979	Highest Ppt	72-1979		
Greatest Ppt	1.46-1959	Greatest Ppt	1.08-1981	Greatest Ppt	1.43-1942	Greatest Ppt	2.34-1960	Greatest Ppt	4.99-1993	Greatest Ppt	5.45-1993		
Normal 22 Actual	71.3 max 49.2 min .13 ppt 6 cdd	Normal 23 Actual	69.6 max 48.7 min .06 ppt 1 cdd	Normal 24 Actual	69.0 max 46.3 min .05 ppt 8 cdd	Normal 25 Actual	68.7 max 46.0 min 0.6 ppt 8 cdd	Normal 26 Actual	70.4 max 46.3 min 0.4 ppt 7 cdd	Normal 27 Actual	69.3 max 46.4 min .09 ppt 8 cdd	Normal 28 Actual	67.7 max 45.6 min .07 ppt 9 cdd
Highest Max	87-1939	Highest Max	89-1927	Highest Max	88-1927	Highest Max	87-1939	Highest Max	92-1891	Highest Max	86-1922		
Lowest Min	42-1936	Lowest Max	45-1895	Lowest Max	48-1949	Lowest Max	43-1957	Lowest Max	42-1956	Lowest Max	43-1915		
Highest Ppt	31-1898	Lowest Ppt	26-1917	Lowest Ppt	30-1995	Lowest Ppt	28-1957	Lowest Ppt	26-1957	Lowest Ppt	22-1957		
Lowest Ppt	66-1941	Highest Ppt	67-1934	Highest Ppt	68-1939	Highest Ppt	68-1939	Highest Ppt	71-1939	Highest Ppt	66-1940		
Greatest Ppt	1.87-1959	Greatest Ppt	1.58-1920	Greatest Ppt	1.44-1920	Greatest Ppt	1.65-1999	Greatest Ppt	3.76-1918	Greatest Ppt	3.19-1984		
Normal 29 Actual	69.4 max 46.8 min 1.08 ppt 7 cdd	Normal 30 Actual	69.1 max 46.4 min .19 ppt 8 cdd	Normal 31 Actual	67.8 max 46.7 min 1.12 ppt 9 cdd	<p>OCTOBER AVERAGES</p> <p>TEMPERATURE : 62.1°F</p> <p>PRECIPITATION : 3.13"</p> <p>HEATING DEGREE DAYS : 155</p> <p>COOLING DEGREE DAYS : 67</p>							
Highest Max	89-1950	Highest Max	87-1937	Highest Max	86-1938								
Lowest Min	34-1925	Lowest Min	39-1993	Lowest Min	36-1991								
Highest Ppt	22-1917	Lowest Ppt	16-1917	Lowest Ppt	16-1993								
Lowest Ppt	67-1961	Highest Ppt	67-1946	Highest Ppt	65-1892								
Greatest Ppt	1.61-1941	Greatest Ppt	2.04-1974	Greatest Ppt	1.82-1972								