

OKLAHOMA MONTHLY CLIMATE SUMMARY

SEPTEMBER 2001

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Oklahoma Climatological Survey

MONTHLY SUMMARY FOR SEPTEMBER 2001

September 2001

Statewide average temperature = 71.3° F
Statewide average rainfall = 3.69 inches

Most of Oklahoma enjoyed less than normal temperatures during September, but precipitation was poorly distributed – substantial in a few areas and greatly lacking in others. Only the Panhandle climate division recorded a greater than normal mean monthly temperature. The rest of the state was cool enough to produce a statewide-averaged temperature of 71.3 degrees, 1.7 degrees less than normal, making this the 24th coolest September since record keeping began in 1892. A large surplus of precipitation in south central Oklahoma was counter-balanced by deficits elsewhere, especially in northeastern Oklahoma, such that the month's statewide-averaged precipitation of 3.69 inches was 0.18 inches less than normal. The vagaries of historical September precipitation of the state are such that this slightly-less-than-normal precipitation total is 70th lowest of the 110 September statewide totals on record.

Total precipitation, averaged across the state, for January through September is 25.94 inches, 1.15 inches less than normal, ranking as the 50th least precipitation total of the similar periods on record. The statewide-averaged temperature for the year through September is 63.8 degrees which is 0.3 degree greater than normal, making this the 46th warmest out of 110 such periods.

September Normals

Statewide average temperature = 73.0° F
Statewide average rainfall = 3.87 inches

The weather was unsettled throughout the first three-and-a-half weeks of the month. Severe weather was reported on nine different days. Hail and strong wind gusts were reported in southwest Oklahoma on the 3rd and 4th. Minor flooding was reported in Bryan County, where Kingston recorded 4.70 inches of rain. The Weatherford (Custer County) Mesonet station recorded a peak wind of 65 miles per hour on the 4th. Severe thunderstorms were most widespread on the 7th, extending into the early morning hours of the 8th. Three-quarter inch or greater diameter hail was reported in 32 counties, including a report of 2-inch hailstones in Okarche (Kingfisher). Sixteen other counties escaped the large hail, but were buffeted by maximum winds from thunderstorms exceeding the established criteria for severe weather. The Wynona (Osage) Mesonet station recorded a peak wind of 75 miles per hour. Electrical power was out for several hours in parts of Tulsa and Muskogee counties. Wind damage, possibly from a tornado, was reported in Ringwood (Major) early morning on the 18th. Other brief tornadoes were reported at Beaver (Beaver) on the 19th and Lookout (Woods) on the 20th. Three-inch diameter hail was reported near Plainview (Woods) on the 20th.

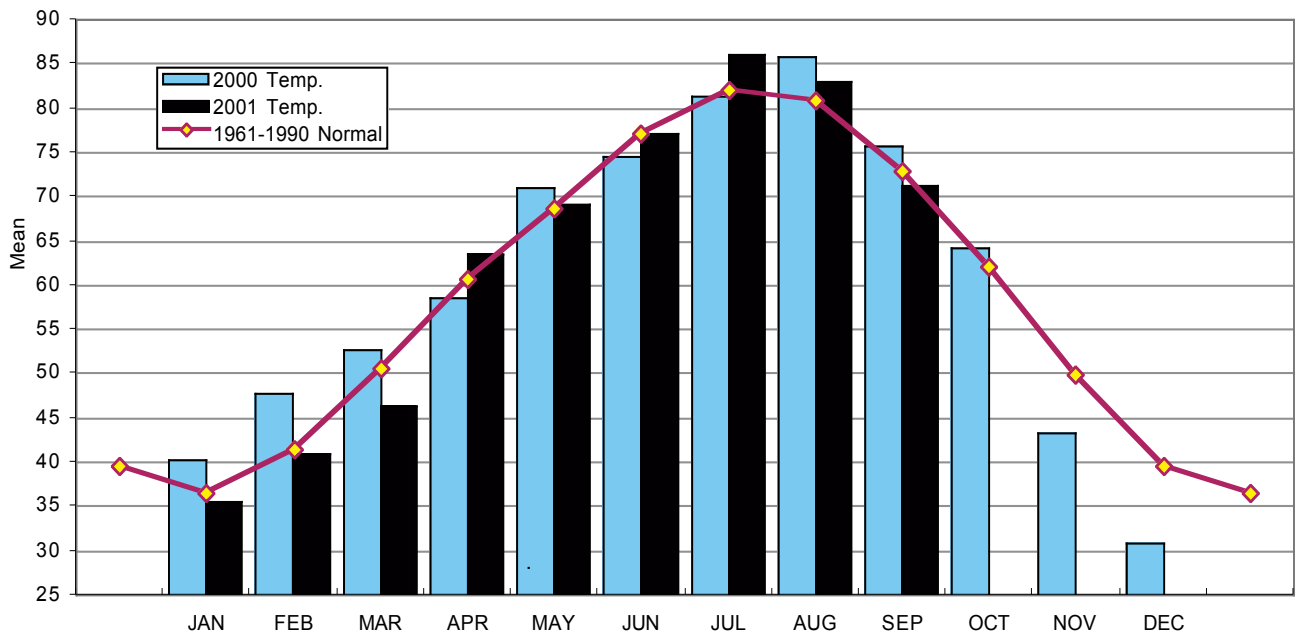
(Continued on page 3.)

Daily rainfall amounts greater than 4 inches (in addition to the Kingston report listed above) included: Wilburton (Latimer) Mesonet 5.49 inches on the 8th, Sulphur (Murray) Mesonet site 5.65 inches, Ketchum Ranch (Stephens) 5.20 inches, Tishomingo (Johnston) Mesonet 4.39 inches and Pauls Valley (Garvin) Mesonet 4.19 inches all on the 15th, and Tishomingo 4.15 inches on the 20th. Minor flooding was reported in Pottawatomie County on the 18th.

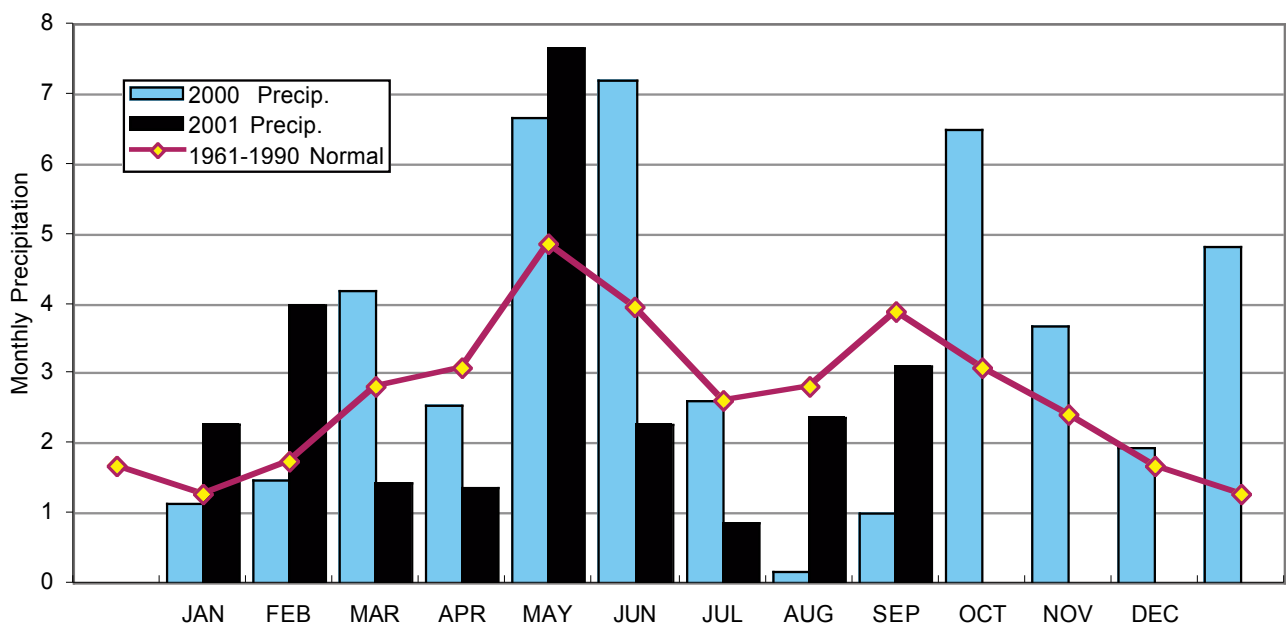
The month's temperatures ranged from the 102-degree daily maximum recorded by Mesonet stations at Grandfield and Tipton (both in Tillman County) on the 7th to an overnight minimum of 33 degrees at the El Reno (Canadian) Mesonet site. Triple-digit temperatures were reported only on the 7th. Daily minimum temperatures in the 30s were widespread on the 25th and 26th with isolated occurrences on other days during the last week of the month.

Howard L. Johnson
Associate State Climatologist

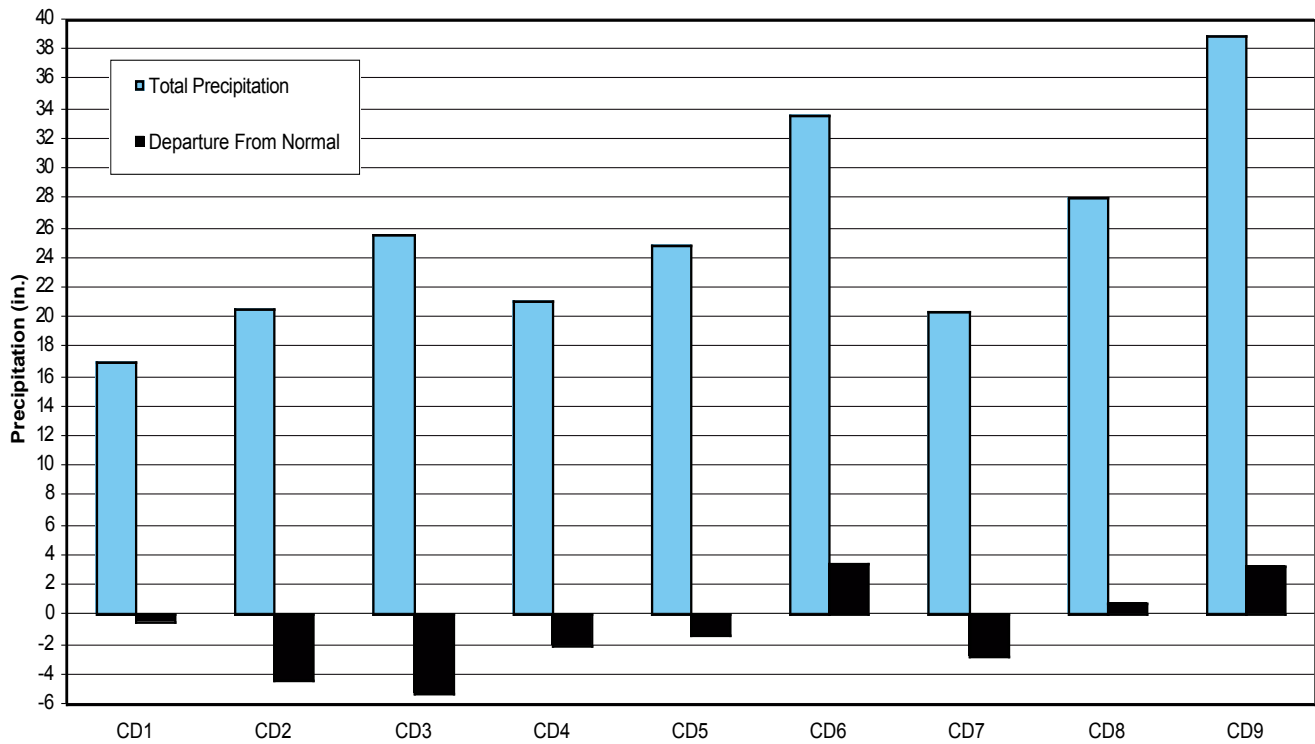
2000 AND 2001 STATEWIDE TEMPERATURES - MONTHLY AVERAGES



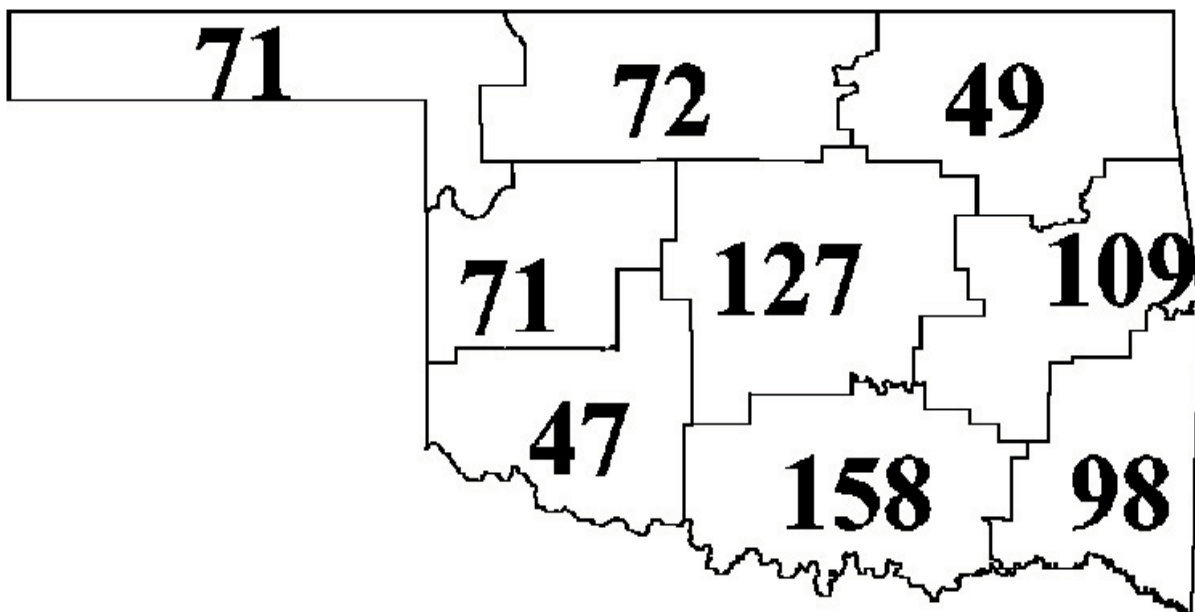
2000 AND 2001 STATEWIDE PRECIPITATION - MONTHLY TOTALS



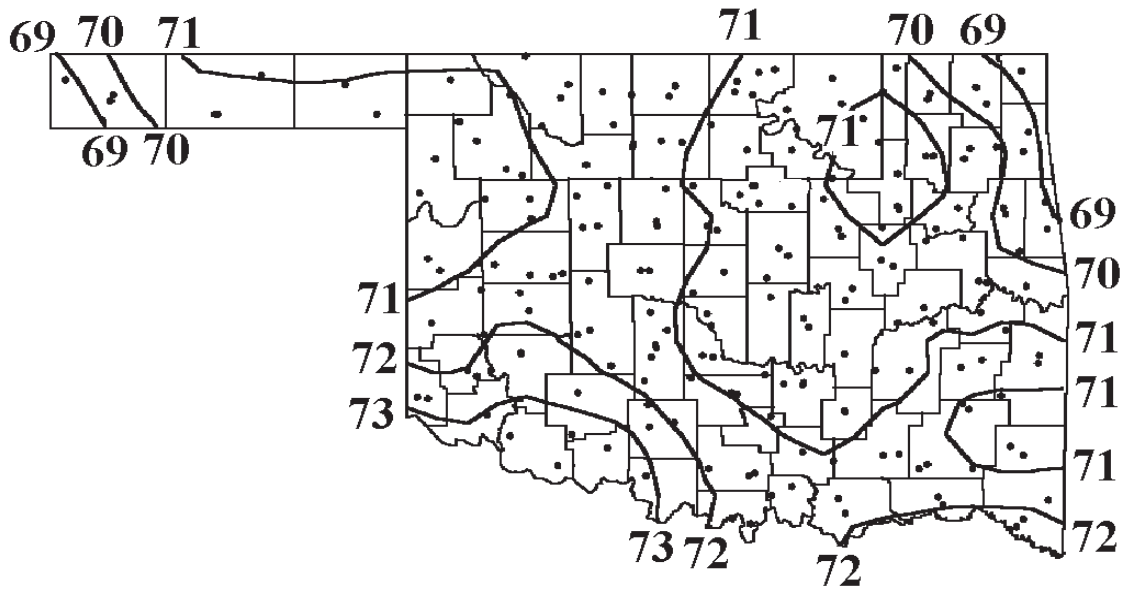
CLIMATE DIVISION AVERAGED PRECIPITATION - JANUARY THROUGH SEPTEMBER 2001



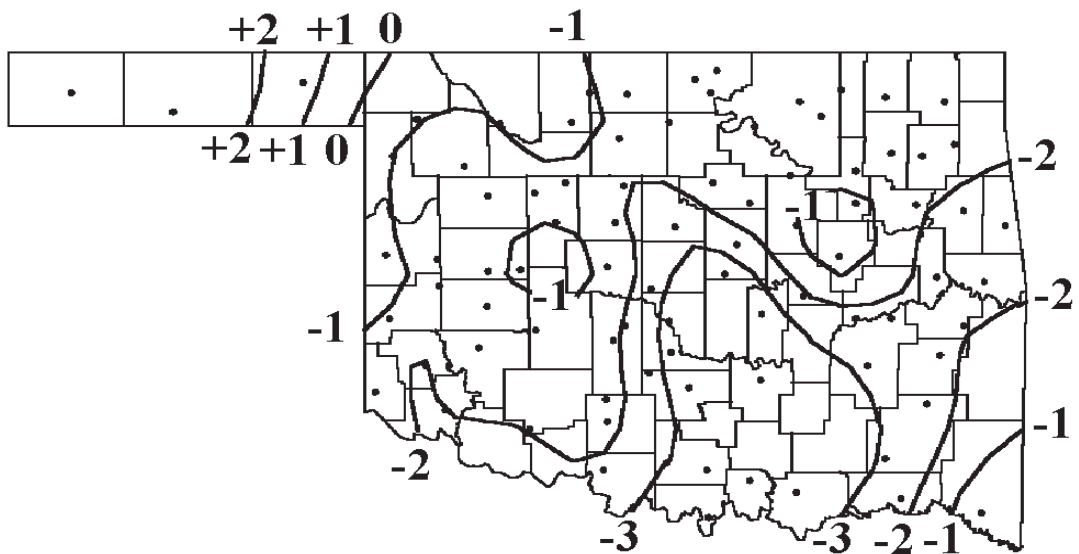
CLIMATE DIVISION PERCENT OF NORMAL PRECIPITATION - SEPTEMBER 2001



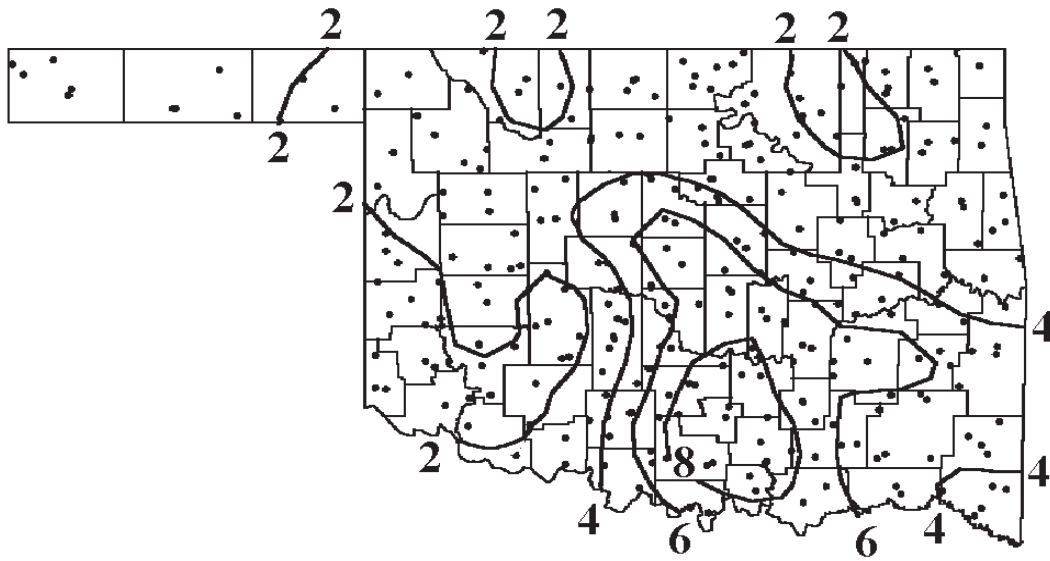
SEPTEMBER 2001 AVERAGE MONTHLY TEMPERATURE (°F)



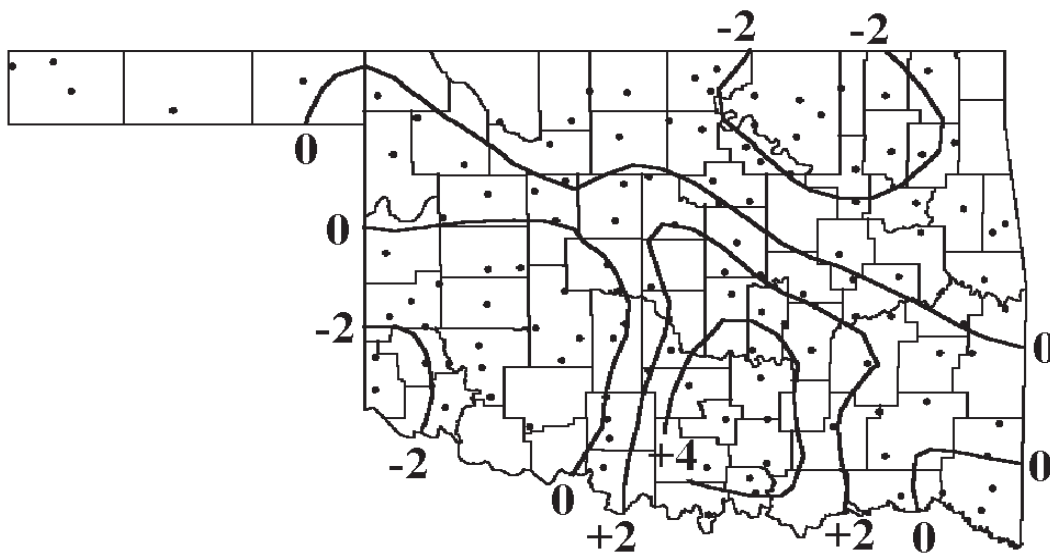
SEPTEMBER 2001 DEPARTURE FROM NORMAL TEMPERATURE (°F)



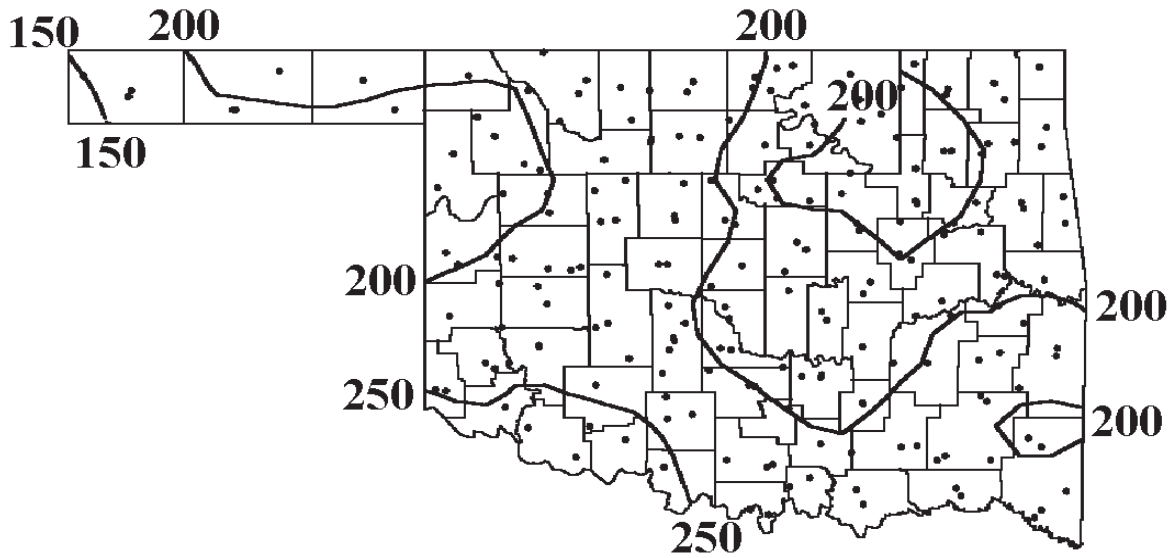
SEPTEMBER 2001 TOTAL PRECIPITATION (INCHES)



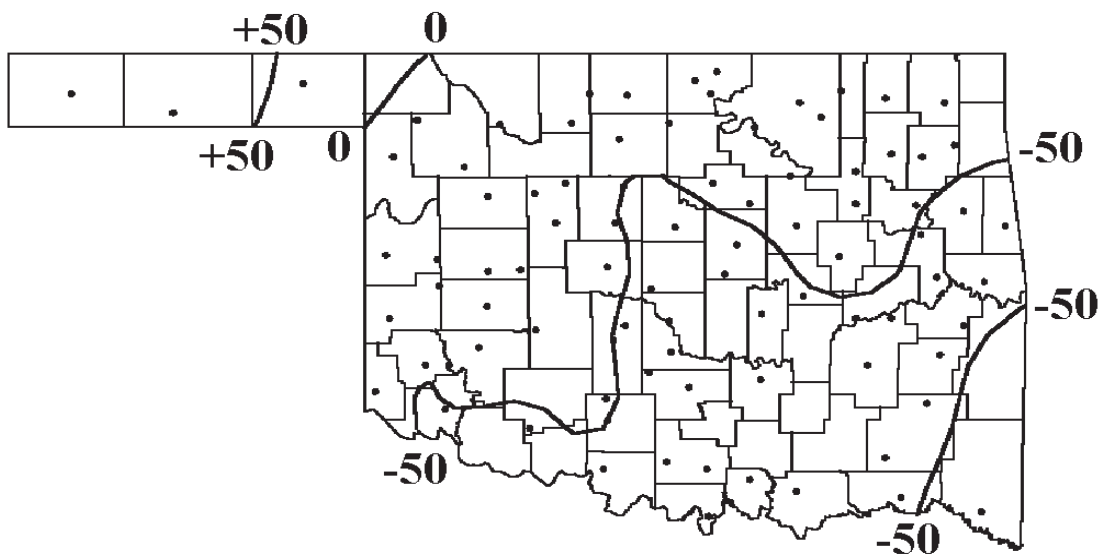
SEPTEMBER 2001 DEPARTURE FROM NORMAL PRECIPITATION (INCHES)



SEPTEMBER 2001 ACCUMULATED COOLING DEGREE DAYS (°F)



SEPTEMBER 2001 DEPARTURE FROM NORMAL COOLING DEGREE DAYS (°F)



SEPTEMBER 2001 SUMMARY FOR PANHANDLE CLIMATE DIVISION (CD1)

NAME	ID	CD	MEAN	NUM	DEV		MIN	HEAT	DEV	COOL	DEV	TOT	NUM	DEV	MAX	DAY		
			TEMP	OBS	FROM	MAX											DEG	FROM
BEAVER	593	1	71.2	30	1.5	97	4	42	25	29	-2	214	42	1.650	30	-0.17	0.57	18
BOISE CITY	908	1	70.4	30	2.6	96	6	36	9	19	-13	181	65	0.861	30	-0.97	0.71	17
GAGE	3407	1	70.2	30	-1.4	95	2	39	25	32	14	188	-28	3.055	30	1.06	0.76	20
GATE	3489	1	71.2	28	*****	97	13	44	24	19	*****	193	*****	2.053	29	*****	0.74	21
GOODWELL	3628	1	71.4	30	3.3	100	7	40	27	25	-15	216	84	0.441	30	-1.24	0.22	18
GUYMON	3835	1	71.4	23	*****	99	7	41	23	10	*****	158	*****	1.220	24	*****	0.46	18
KENTON	4766	1	69.8	28	*****	96	6	39	9	14	*****	149	*****	0.501	30	-1.35	0.35	14
LAVERNE	5045	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.533	30	0.51	1.37	18
RANGE	7412	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.561	30	*****	1.05	16
REGNIER	7534	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.012	30	-1.69	0.01	18

SEPTEMBER 2001 SUMMARY FOR NORTH CENTRAL CLIMATE DIVISION (CD2)

NAME	ID	CD	MEAN	NUM	DEV		MIN	HEAT	DEV	COOL	DEV	TOT	NUM	DEV	MAX	DAY		
			TEMP	OBS	FROM	MAX											DEG	FROM
ALVA	193	2	71.6	30	*****	98	3	42	26	19	*****	217	*****	1.490	30	*****	0.95	18
VANCE AFB	302	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.492	29	*****	1.10	17
BILLINGS	755	2	70.9	30	-1.5	93	5	40	25	26	6	202	-40	2.251	30	-2.29	1.30	18
BLACKWELL 2E	818	2	71.2	30	-1.7	94	5	43	26	21	4	206	-46	2.892	30	-1.19	1.10	16
BRAMAN	1075	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.810	30	*****	1.34	8
CEDARDALE	1620	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.331	30	*****	1.55	18
CHEROKEE	1724	2	72.6	28	*****	99	8	41	25	19	*****	230	*****	1.442	29	*****	1.14	18
ENID	2912	2	72.4	30	-1.0	97	8	47	25	15	2	238	-27	4.834	30	1.35	3.21	16
FT SUPPLY	3304	2	69.2	30	-1.2	95	2	37	24	45	23	170	-15	2.381	30	0.07	0.97	17
GREAT SALT P	3740	2	71.9	29	-0.2	96	5	42	25	19	2	220	-10	2.830	30	-0.50	1.27	15
HARDY	3909	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.540	30	*****	0.96	8
HELENA	4019	2	71.9	30	0.4	97	5	43	26	20	1	228	14	1.751	30	-1.48	1.18	18
JEFFERSON	4573	2	70.4	30	-2.9	96	5	39	25	28	17	191	-69	2.130	30	-1.56	0.81	16
LAHOMA	4950	2	71.2	30	*****	98	8	45	28	26	*****	211	*****	2.620	30	*****	1.18	15
LAMONT	5013	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.940	30	*****	0.75	18
MEDFORD	5768	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.101	30	*****	0.84	18
MORRISON	6065	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.560	30	*****	1.03	18
MUTUAL	6139	2	70.3	30	-0.8	95	3	42	26	27	8	187	-18	4.180	30	1.53	2.46	18
NEWKIRK	6278	2	70.5	30	-2.2	95	5	42	26	25	11	191	-55	2.660	30	-1.61	1.15	8
ORIENTA	6751	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.874	30	-1.19	1.18	18
PONCA CITY	7201	2	70.8	30	-1.3	94	4	41	25	27	4	200	-37	1.940	30	-2.40	0.69	18
RED ROCK	7505	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.510	30	-1.72	1.00	7
WAYNOKA	9404	2	71.5	30	-1.4	96	3	42	26	25	11	219	-33	1.283	30	-1.29	0.93	18

SEPTEMBER 2001 SUMMARY FOR NORTHEAST CLIMATE DIVISION (CD3)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV		MIN TEMP	DAY	HEAT DEG	DAY	DEV FROM	NORM	COOL DEG	DAY	DEV FROM	NORM	TOT PPT	NUM OBS	DEV FROM	NORM	24-HR	DAY
					FROM	MAX																
BARNSDALL	535	3	71.1	30	-1.8	97	4	38	26	32	8	213	-45	1.120	30	-4.49	0.91	18				
BARTLESVILLE	548	3	71.6	30	-1.2	97	4	37	26	22	6	219	-31	1.661	30	-2.91	1.05	18				
BIXBY	782	3	70.8	30	-0.7	95	3	42	26	30	9	206	-11	2.420	30	-2.29	0.90	17				
BURBANK	1256	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.220	30	-2.44	0.88	18				
CHELSEA	1717	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.880	30	*****	0.78	18				
CLAREMORE	1828	3	71.1	30	-0.9	97	5	39	27	32	8	214	-20	1.132	30	-3.32	0.48	18				
HOLLOW	4258	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.620	30	-1.41	2.29	17				
HOMINY	4289	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.651	30	-2.47	1.45	18				
LENAPAH	5118	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.940	30	*****	0.94	8				
MANNFORD	5522	3	71.4	30	-1.2	94	3	42	26	22	-3	215	-38	2.130	30	-2.43	0.70	18				
MARAMEC	5540	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.070	30	-1.62	0.88	6				
MIAMI	5855	3	72.0	24	*****	96	4	42	26	9	*****	177	*****	4.970	27	*****	2.62	18				
NOWATA	6485	3	71.7	30	-0.7	99	4	40	25	23	3	223	-19	2.610	30	-2.74	1.86	18				
PAWHUSKA	6935	3	71.4	30	-0.9	95	4	39	26	27	6	218	-22	2.151	30	-2.78	1.15	18				
PAWNEE	6940	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.280	30	-1.76	0.86	18				
PRYOR	7309	3	70.8	29	-0.4	96	5	40	27	30	1	197	-18	1.642	30	-3.11	0.50	8				
RALSTON	7390	3	69.4	30	-3.4	96	3	37	26	37	18	170	-83	2.270	30	-2.40	0.67	18				
SPAVINAW	8380	3	72.7	30	-1.0	93	5	43	25	14	2	244	-30	3.130	30	-1.65	1.42	9				
TULSA	8992	3	71.9	30	-1.4	94	4	42	25	22	2	228	-42	1.951	30	-2.75	0.66	18				
UPPER SPAV	9101	3	68.9	30	*****	97	3	38	26	44	*****	162	*****	3.440	30	*****	1.38	8				
VINITA	9203	3	69.9	29	-1.6	94	4	40	26	38	15	181	-37	2.780	29	*****	1.06	17				
WAGONER	9247	3	71.8	30	-1.6	93	3	42	26	18	4	222	-45	3.970	30	-0.59	1.67	8				
WANN	9298	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.911	30	*****	1.03	18				
WYNONA	9792	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.772	30	*****	0.75	18				

SEPTEMBER 2001 SUMMARY FOR WEST CENTRAL CLIMATE DIVISION (CD4)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV		MIN TEMP	DAY	HEAT DEG	DAY	DEV FROM	NORM	COOL DEG	DAY	DEV FROM	NORM	TOT PPT	NUM OBS	DEV FROM	NORM	24-HR	DAY
					FROM	MAX																
CANTON DAM	1445	4	70.8	30	-1.1	95	3	41	25	36	20	210	-13	4.080	30	0.90	3.14	18				
CLINTON	1909	4	71.9	30	-2.0	95	3	44	25	23	10	229	-52	1.990	30	-1.74	1.23	16				
COLONY	2039	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.641	30	*****	0.21	16				
CORDELL	2125	4	71.5	30	-1.9	98	8	43	26	22	11	218	-46	4.122	30	0.51	2.20	16				
ELK CITY	2849	4	71.5	30	-0.7	96	4	43	26	20	7	215	-14	1.580	30	-1.70	0.84	5				
ERICK	2944	4	71.4	30	-1.0	95	8	42	26	23	10	216	-20	1.110	30	-2.11	0.80	5				
GEARY	3497	4	73.9	15	*****	97	7	46	30	5	*****	138	*****	2.200	16	*****	2.10	17				
HAMMON	3871	4	69.9	29	-1.4	95	8	38	26	38	14	179	-34	2.210	29	*****	0.51	17				
LEEDEY	5090	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.780	30	0.07	0.73	18				
MACKIE	5463	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.970	30	*****	0.71	5				
MORAVIA	6035	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.821	30	-2.59	0.44	6				
OKEENE	6629	4	72.2	30	-1.5	95	7	43	25	16	3	232	-42	2.702	30	-0.99	1.56	18				
RETROP	7565	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.480	30	*****	0.60	4				
REYDON	7579	4	69.9	30	-0.9	93	4	42	26	33	15	179	-13	2.960	30	-0.07	1.85	16				
SAYRE	7952	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.770	30	-1.27	1.30	5				
SWEETWATER	8652	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.911	30	*****	0.66	5				
TALOGA	8708	4	70.1	30	-2.0	95	3	42	26	32	18	184	-43	4.071	30	1.10	2.90	18				
THOMAS	8815	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.320	30	*****	1.43	6				
WATONGA	9364	4	71.7	30	-1.0	96	8	43	26	26	10	227	-20	4.593	30	1.22	3.35	18				
WEATHERFORD	9422	4	72.5	30	0.4	95	8	40	25	15	-3	241	10	1.371	30	-2.37	0.43	5				

SEPTEMBER 2001 SUMMARY FOR CENTRAL CLIMATE DIVISION (CD5)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV		DAY	MIN TEMP	DAY	HEAT	DEV	COOL	DEV	TOT PPT	NUM OBS	DEV	DEV	DAY	
					DEG DAY	FROM NORM				DEG DAY	FROM NORM	FROM NORM	FROM NORM			FROM NORM	FROM NORM		FROM NORM
AMBER	200	5	****	0	****	****	0	****	0	*****	*****	*****	*****	2.180	30	****	****	1.00	18
BLANCHARD	830	5	71.7	30	-2.3	94	7	45	25	14	3	215	-66	4.411	30	0.25	1.30	18	
BRISTOW	1144	5	71.8	29	-1.2	95	3	40	26	17	-3	215	-45	3.720	29	****	0.75	8	
CHANDLER	1684	5	70.4	30	-2.9	91	4	44	27	24	7	188	-79	5.560	30	1.31	1.50	21	
CHICKASHA EXP	1750	5	72.3	30	-1.3	97	7	43	25	17	5	235	-36	2.581	30	-1.22	1.31	18	
COX CITY	2196	5	****	0	****	****	0	****	0	*****	*****	*****	*****	3.830	30	****	0.85	15	
CUSHING	2318	5	71.8	30	-0.7	94	4	46	26	18	3	221	-20	3.480	30	-0.63	1.10	18	
EDMOND	2788	5	****	0	****	****	0	****	0	*****	*****	*****	*****	9.650	30	****	3.60	17	
EL RENO	2818	5	72.3	30	-0.5	96	8	46	26	16	3	236	-11	3.310	30	-0.82	2.00	18	
GUTHRIE	3821	5	70.7	30	-3.5	93	3	44	26	22	8	194	-96	8.500	30	4.19	2.73	16	
HENNESSEY	4055	5	70.5	30	-2.7	98	7	43	25	25	13	190	-69	3.080	30	-0.98	1.62	15	
KINGFISHER	4861	5	72.3	29	-1.6	99	8	44	26	20	10	231	-46	6.240	30	2.12	3.51	18	
KONAWA	4915	5	****	0	****	****	0	****	0	*****	*****	*****	*****	10.690	30	6.25	2.30	18	
MARSHALL	5589	5	****	0	****	****	0	****	0	*****	*****	*****	*****	4.290	30	0.46	2.18	16	
MEEKER	5779	5	69.1	30	-4.1	91	3	42	26	37	23	161	-100	8.540	30	4.25	2.49	16	
MULHALL	6110	5	****	0	****	****	0	****	0	*****	*****	*****	*****	4.150	30	****	1.19	16	
NORMAN NWS	6386	5	70.0	30	-4.0	91	2	45	30	27	17	177	-104	5.412	30	1.32	2.18	18	
OKEMAH	6638	5	71.7	30	-1.6	92	3	46	25	16	1	216	-49	4.350	30	0.09	1.13	16	
OKLAHOMA CTY F.	6659	5	****	0	****	****	0	****	0	*****	*****	*****	*****	5.585	30	****	1.59	6	
OKLAHOMA CTY	6661	5	70.7	30	-2.3	92	7	47	26	19	4	189	-66	5.556	30	1.72	1.57	5	
PERKINS	7003	5	****	0	****	****	0	****	0	*****	*****	*****	*****	3.370	30	-1.03	1.14	18	
PIEDMONT	7068	5	****	0	****	****	0	****	0	*****	*****	*****	*****	6.290	30	****	3.73	18	
PRAGUE	7264	5	****	0	****	****	0	****	0	*****	*****	*****	*****	5.671	30	1.19	1.39	18	
PURCELL	7327	5	71.2	30	-3.0	92	4	46	25	15	2	202	-88	7.040	30	2.68	2.09	16	
SEMINOLE	8042	5	70.6	30	-4.3	92	3	44	27	22	13	189	-115	9.171	30	4.78	2.87	19	
SHAWNEE	8110	5	****	0	****	****	0	****	0	*****	*****	*****	*****	6.940	30	2.72	3.08	18	
STELLA	8479	5	****	0	****	****	0	****	0	*****	*****	*****	*****	6.130	30	****	2.10	18	
STILLWATER	8501	5	71.5	30	-0.6	95	4	41	25	24	7	219	-12	3.340	30	-0.95	1.28	18	
STROUD	8563	5	****	0	****	****	0	****	0	*****	*****	*****	*****	2.721	30	****	0.62	18	
TECUMSEH	8751	5	****	0	****	****	0	****	0	*****	*****	*****	*****	6.130	30	****	2.58	18	
UNION CITY	9086	5	****	0	****	****	0	****	0	*****	*****	*****	*****	2.761	30	-1.47	1.66	18	
TROUSDALE	8960	5	69.7	28	****	93	3	42	26	33	****	164	****	7.780	28	****	1.90	16	
WELTY	9479	5	****	0	****	****	0	****	0	*****	*****	*****	*****	3.380	30	****	0.90	18	
WEWOKA	9575	5	****	0	****	****	0	****	0	*****	*****	*****	*****	7.320	30	3.00	2.33	18	

SEPTEMBER 2001 SUMMARY FOR EAST CENTRAL CLIMATE DIVISION (CD6)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV		DAY	MIN TEMP	DAY	HEAT	DEV	COOL	DEV	TOT PPT	NUM OBS	DEV	DEV	DAY
					DEG DAY	FROM NORM				DEG DAY	FROM NORM	FROM NORM	FROM NORM			FROM NORM	FROM NORM	
ASHLAND	364	6	****	0	****	****	0	****	0	*****	*****	*****	*****	5.130	30	****	1.34	19
CALVIN	1391	6	****	0	****	****	0	****	0	*****	*****	*****	*****	8.700	30	4.26	2.70	17
CHECOTAH	1711	6	****	0	****	****	0	****	0	*****	*****	*****	*****	3.440	30	-1.44	1.17	9
CLAYTON	1858	6	****	0	****	****	0	****	0	*****	*****	*****	*****	5.410	30	****	2.24	9
DEWAR	2485	6	****	0	****	****	0	****	0	*****	*****	*****	*****	5.112	30	0.57	1.42	9
DUSTIN	2690	6	****	0	****	****	0	****	0	*****	*****	*****	*****	5.510	30	****	1.53	9
EUFULA	2993	6	72.4	30	-2.3	90	7	49	26	7	-3	229	-72	6.100	30	1.53	1.80	9
HANNA	3884	6	70.6	29	-3.0	92	3	42	27	26	14	189	-81	5.484	30	0.90	1.24	9
HOLDENVILLE	4235	6	71.4	28	****	94	2	46	30	20	****	198	****	8.102	29	****	2.60	18
LAKE EUFAULA	4975	6	69.1	25	****	89	8	49	27	13	****	115	****	5.040	25	****	1.52	9
LYONS	5437	6	****	0	****	****	0	****	0	*****	*****	*****	*****	4.630	30	-0.19	1.93	9
MCALESTER	5664	6	70.8	30	-2.9	92	4	45	26	25	9	200	-78	7.643	30	2.78	2.68	8
MCCURTAIN	5693	6	72.0	30	-2.0	94	5	42	26	20	6	230	-55	3.754	30	-1.01	1.80	9
MUSKOGEE	6130	6	70.8	30	-2.7	93	7	42	26	24	9	198	-73	2.942	30	-1.57	1.01	8
OKMULGEE	6670	6	72.9	30	1.0	93	3	45	26	12	-10	248	20	3.830	30	-0.08	1.22	18
OKTAHA	6678	6	****	0	****	****	0	****	0	*****	*****	*****	*****	4.400	30	****	1.29	9
SALLISAW	7862	6	71.5	30	-2.3	94	4	45	26	22	11	217	-59	3.690	30	-0.82	1.04	9
SCIPIO	7979	6	****	0	****	****	0	****	0	*****	*****	*****	*****	4.910	30	****	1.11	18
SHORT	8170	6	****	0	****	****	0	****	0	*****	*****	*****	*****	2.800	30	****	1.20	9
STILWELL	8506	6	69.0	30	-2.7	90	8	39	26	37	17	156	-66	4.240	30	-0.48	1.90	9
TAHLEQUAH	8677	6	69.3	30	-3.2	91	3	41	26	35	8	166	-87	4.790	30	-0.20	2.87	9
WEBBERS FALL	9445	6	70.4	29	-2.4	94	8	41	28	29	13	187	-64	3.960	29	****	1.98	9
WETUMKA	9571	6	****	0	****	****	0	****	0	*****	*****	*****	*****	7.422	30	2.84	2.56	6

SEPTEMBER 2001 SUMMARY FOR SOUTHWEST CLIMATE DIVISION (CD7)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV		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
					FROM NORM	MAX TEMP												
ALTUS	179	7	72.7	30	-2.4	97	7	42	25	18	12	248	-61	1.750	30	-1.69	0.93	5
ALTUS DAM	184	7	74.9	29	0.9	98	8	50	11	6	-2	294	16	3.490	30	0.06	2.12	16
ANADARKO	224	7	68.8	27	****	95	8	39	26	39	*****	141	*****	1.830	30	-1.88	1.03	4
APACHE	260	7	*****	0	*****	***	0	***	0	*****	*****	*****	*****	2.770	30	-0.98	1.85	6
ALTUS AFB	447	7	*****	0	*****	***	0	***	0	*****	*****	*****	*****	0.312	29	*****	0.22	6
CARNEGIE	1504	7	71.9	30	-2.0	99	8	45	25	13	1	221	-59	1.532	30	-2.50	1.00	16
CHATTANOOGA	1706	7	73.0	30	-2.3	99	8	46	26	12	5	252	-65	2.500	30	-1.17	1.14	16
DUNCAN 11 W	2668	7	*****	0	*****	***	0	***	0	*****	*****	*****	*****	2.260	30	*****	0.71	5
FREDERICK	3353	7	71.5	24	*****	94	2	41	25	11	*****	167	*****	2.890	26	*****	1.25	4
HEADRICK	3998	7	*****	0	*****	***	0	***	0	*****	*****	*****	*****	1.660	30	*****	1.15	16
HOBART	4204	7	72.5	30	-1.4	98	7	44	25	13	3	239	-39	2.325	30	-1.23	1.27	15
HOLLIS	4249	7	73.5	30	-1.0	100	7	44	25	11	5	267	-25	0.560	30	-2.57	0.22	5
LOOKEBA	5329	7	*****	0	*****	***	0	***	0	*****	*****	*****	*****	0.740	30	-3.61	0.46	18
MANGUM	5509	7	70.5	30	-4.2	98	7	41	30	36	30	201	-96	0.710	30	-2.67	0.35	5
RANDLETT	7403	7	*****	0	*****	***	0	***	0	*****	*****	*****	*****	1.881	30	*****	0.64	5
ROOSEVELT	7727	7	*****	0	*****	***	0	***	0	*****	*****	*****	*****	1.290	30	-2.04	0.64	16
SEDAN	8016	7	*****	0	*****	***	0	***	0	*****	*****	*****	*****	2.410	30	*****	1.96	16
SNYDER	8299	7	*****	0	*****	***	0	***	0	*****	*****	*****	*****	1.000	30	-2.57	0.40	5
VINSON	9212	7	*****	0	*****	***	0	***	0	*****	*****	*****	*****	0.540	30	-2.66	0.19	21
WALTERS	9278	7	74.2	26	*****	97	8	46	26	12	*****	251	*****	2.640	26	*****	1.40	5
WICHITA MT	9629	7	71.9	28	*****	98	8	42	26	19	*****	213	*****	2.261	29	*****	1.04	16

SEPTEMBER 2001 SUMMARY FOR SOUTH CENTRAL CLIMATE DIVISION (CD8)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV		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
					FROM NORM	MAX TEMP												
ADA	17	8	70.5	30	-3.3	93	2	43	26	27	19	191	-81	9.301	30	4.84	1.70	16
ALLEN	147	8	*****	0	*****	***	0	***	0	*****	*****	*****	*****	4.120	30	*****	1.32	5
ARDMORE	292	8	72.7	29	-3.5	93	3	46	25	15	10	239	-102	8.830	30	4.66	2.02	15
ATOKA DAM	394	8	73.3	23	*****	95	5	44	30	6	*****	198	*****	6.250	30	1.41	1.75	16
BOKCHITO	917	8	*****	0	*****	***	0	***	0	*****	*****	*****	*****	7.200	30	*****	1.80	20
1437	1437	8	*****	0	*****	***	0	***	0	*****	*****	*****	*****	6.230	30	*****	1.51	17
CENTRAHOMA	1648	8	71.0	30	*****	92	4	44	27	24	*****	204	*****	5.850	30	*****	1.80	16
CHICKASAW	1745	8	73.0	11	*****	92	3	46	30	5	*****	93	*****	11.030	31	6.39	3.10	15
COLEMAN	2011	8	70.7	30	*****	98	7	45	26	25	*****	195	*****	8.500	30	*****	1.65	16
COMANCHE	2054	8	*****	0	*****	***	0	***	0	*****	*****	*****	*****	3.150	30	-1.33	1.10	18
DAISY	2354	8	*****	0	*****	***	0	***	0	*****	*****	*****	*****	5.185	30	-0.38	1.69	9
DUNCAN	2660	8	72.7	30	-1.5	95	8	49	26	6	-3	236	-49	2.970	30	-1.44	1.70	15
DURANT	2678	8	70.6	29	-3.3	91	2	46	25	30	20	191	-86	9.401	29	*****	2.75	20
ELMORE CITY	2872	8	*****	0	*****	***	0	***	0	*****	*****	*****	*****	5.360	30	*****	1.26	20
GRADY	3688	8	*****	0	*****	***	0	***	0	*****	*****	*****	*****	4.520	30	*****	1.35	8
HEALDTON	4001	8	71.7	30	-3.0	94	4	46	26	17	9	217	-82	10.220	30	5.68	1.93	21
HENNEPIN	4052	8	*****	0	*****	***	0	***	0	*****	*****	*****	*****	8.590	30	*****	2.33	16
KETCHUM RAN	4780	8	*****	0	*****	***	0	***	0	*****	*****	*****	*****	8.600	30	*****	5.20	15
KINGSTON	4865	8	*****	0	*****	***	0	***	0	*****	*****	*****	*****	8.700	30	3.92	4.70	5
LEHIGH	5108	8	*****	0	*****	***	0	***	0	*****	*****	*****	*****	9.053	30	*****	2.60	16
LINDSAY	5216	8	70.6	30	-3.0	96	7	43	29	31	17	199	-73	4.950	30	0.64	0.98	17
LOCO	5247	8	*****	0	*****	***	0	***	0	*****	*****	*****	*****	6.760	30	*****	1.55	21
MADILL	5468	8	72.5	30	-2.9	93	4	48	26	9	1	235	-85	9.140	30	4.32	2.17	16
MARIETTA 5 SW	5563	8	70.6	30	-4.8	92	4	44	27	30	22	198	-123	6.470	30	2.28	2.01	21
MARLOW	5581	8	72.9	30	-0.8	100	7	42	25	12	2	250	-21	4.730	30	0.40	3.55	15
MCGEE CREEK	5713	8	72.2	30	*****	92	2	48	26	11	*****	228	*****	3.690	30	*****	0.82	9
PAULS VALLEY	6926	8	70.7	30	-3.9	97	3	43	26	26	17	198	-100	10.990	30	6.94	2.70	16
PONTOTOC	7214	8	*****	0	*****	***	0	***	0	*****	*****	*****	*****	8.450	30	4.45	2.85	15
TISHOMINGO	8884	8	*****	0	*****	***	0	***	0	*****	*****	*****	*****	13.520	30	8.61	4.15	20
TUSSY	9032	8	*****	0	*****	***	0	***	0	*****	*****	*****	*****	7.880	30	*****	2.40	16
WAURIKA	9395	8	73.9	30	-1.8	96	7	46	25	12	12	280	-46	4.982	30	1.07	1.56	17

SEPTEMBER 2001 SUMMARY FOR SOUTHEAST CLIMATE DIVISION (CD9)

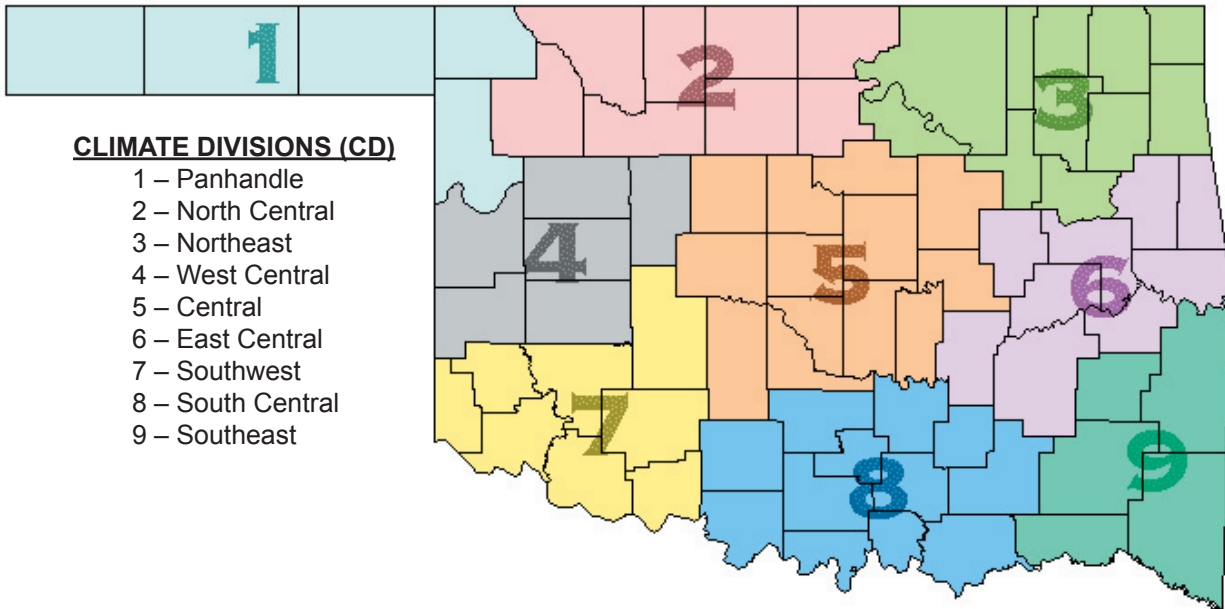
NAME	ID	CD	MEAN TEMP	NUM OBS	FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	DEG DAY	FROM NORM	DEG DAY	FROM NORM	TOT PPT	NUM OBS	FROM NORM	MAX 24-HR	DAY
ANTLERS	256	9	70.8	30	-3.3	92	3	43	30	27	17	202	-81	4.700	30	-0.11	1.23	19
BATTIEST	567	9	68.5	30	*****	91	4	39	26	50	*****	155	*****	3.460	30	*****	1.51	9
BENGAL	670	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.350	30	*****	1.60	19
BROKEN BOW	1162	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.110	30	-1.43	0.88	9
CARTER TWR	1544	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.850	30	0.06	1.46	9
FANSHAWE	3065	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.950	30	1.27	2.84	9
HUGO	4384	9	72.7	30	-2.5	92	3	46	27	14	8	246	-66	5.322	30	0.79	2.75	10
IDABEL	4451	9	74.1	29	0.2	91	13	50	30	6	-2	270	-6	3.510	30	-0.68	1.70	9
PAGE	6842	9	70.3	23	*****	92	5	40	30	26	*****	147	*****	5.800	25	*****	2.87	9
SMITHVILLE	8285	9	66.6	25	*****	90	5	39	30	47	*****	88	*****	6.542	30	1.97	2.99	9
SPIRO	8416	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.440	30	-1.60	1.16	9
TUSKAHOMA	9023	9	71.6	30	-2.6	92	3	41	30	27	14	225	-65	6.211	30	1.03	3.09	9
VALLIANT	9118	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.411	30	-1.56	1.11	19
WILBURTON	9634	9	70.9	30	-2.0	93	4	43	30	24	9	202	-51	6.620	30	1.73	3.27	8
WISTER	9724	9	71.9	30	*****	94	4	43	28	11	*****	219	*****	5.540	30	*****	2.33	9

SEPTEMBER 2001 CLIMATE DIVISION SUMMARY

NAME	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
CLIMATE DIVISION 1	1	70.8	4	1.6	100	7	36	9	26	-5	200	43	1.330	8	-0.55	1.37	18
CLIMATE DIVISION 2	2	71.1	13	-1.3	99	8	37	24	25	8	206	-32	2.520	21	-0.97	3.21	16
CLIMATE DIVISION 3	3	71.0	14	-1.4	99	4	37	26	28	6	208	-35	2.360	22	-2.50	2.62	18
CLIMATE DIVISION 4	4	71.2	11	-1.2	98	8	38	26	25	10	212	-28	2.350	18	-0.98	3.35	18
CLIMATE DIVISION 5	5	71.2	16	-2.3	99	8	40	26	21	7	205	-62	5.360	32	1.15	3.73	18
CLIMATE DIVISION 6	6	71.0	10	-2.3	94	8	39	26	24	8	202	-62	5.000	20	0.41	2.87	9
CLIMATE DIVISION 7	7	72.7	7	-1.6	100	7	39	26	15	7	246	-42	1.720	17	-1.93	2.12	16
CLIMATE DIVISION 8	8	71.7	14	-2.9	100	7	42	25	20	11	219	-78	7.170	30	2.63	5.20	15
CLIMATE DIVISION 9	9	71.5	7	-2.2	94	4	39	30	23	10	217	-56	4.570	14	-0.08	3.27	8

Note: The above climate division summary contains similar information to the preceding tables but are the averages or extremes over all of the stations reporting in each climate division.

CLIMATE DIVISION MAP



EXPLANATION OF TABLES

The tables appearing on the preceding pages contain the following information for each station or climate division:

Station Name: The name of the observing site.

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

Climate Division: See the figure above.

Number of Temperature Observations: These numbers 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 Temperature: The maximum daily maximum temperature observed during the current month and year and the day on which it occurred.

Minimum Daily Temperature: The minimum daily minimum temperature observed during the current month and year and the day on 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. HDD 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. See the equation to the right for the HDD calculation.

Deviation from Normal Heating Degree Days: The difference between the actual HDD and the normal HDD for the month. 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. CDD 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. See the equation to the right for the CDD calculation.

Deviation from Normal Cooling Degree Days: The difference between the actual HDD and the normal HDD for the month. 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 a 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: The difference between the actual rainfall and the normal rainfall for the month. 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 the 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.

Heating Degree Days Calculation

NumDays

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

Where NumDays = the number of days in the month of interest (e.g., NumDays = 31 for January)

Cooling Degree Days Calculation

NumDays

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

Where NumDays = the number of days in the month of interest (e.g., NumDays = 30 for June)

MESONET MONTHLY SUMMARY FOR SEPTEMBER 2001

NAME	MEAN MAX		MIN		TOT MAX					NAME	MEAN MAX		MIN		TOT MAX						
	TEMP	TEMP	DAY	TEMP	DAY	HDD	CDD	PPT	24-HR		DAY	TEMP	TEMP	DAY	TEMP	DAY	HDD	CDD	PPT	24-HR	DAY
PANHANDLE																					
Arnett	70.0	93	2	43	25	27	177	1.62	0.80	20	Goodwell	70.0	98	6	40	9	33	182	0.27	0.16	14
Beaver	71.0	98	2	42	9	29	209	1.73	0.58	17	Hooker	71.2	99	2	40	9	29	215	1.39	0.94	17
Boise City	68.5	97	6	36	9	40	146	0.86	0.32	14	Kenton	68.4	95	6	37	9	39	140	0.35	0.14	7
Buffalo	71.4	96	2	42	25	21	214	2.28	1.25	17	Slapout	70.3	96	12	43	24	27	187	3.56	1.40	20
NORTH CENTRAL																					
Alva	71.8	96	2	41	25	18	223	1.53	1.02	17	May Ranch	70.9	95	2	43	25	21	199	2.75	1.99	17
Blackwell	70.9	95	3	42	25	23	200	2.68	0.83	18	Medford	71.5	95	4	44	30	18	214	1.97	0.75	18
Breckenridge	70.9	95	7	43	25	23	202	3.15	1.33	15	Newkirk	70.8	95	2	42	25	23	197	2.40	1.06	7
Cherokee	72.3	95	2	42	25	17	236	1.29	0.92	17	Red Rock	70.8	94	3	43	25	23	196	2.92	1.08	18
Fairview	71.9	95	2	43	25	18	224	1.18	0.60	17	Seiling	70.6	95	2	41	25	25	192	5.29	1.80	18
Freedom	70.9	95	2	44	25	22	199	1.94	0.74	22	Woodward	70.4	95	2	43	25	24	186	5.02	1.86	20
Lahoma	70.5	95	7	45	25	20	184	2.66	1.31	15											
NORTHEAST																					
Bixby	70.5	94	3	40	26	29	193	2.82	1.04	18	Nowata	69.3	95	4	36	26	42	171	2.30	1.02	18
Burbank	70.6	98	4	40	26	25	193	2.64	0.82	18	Pawnee	70.7	95	2	43	25	24	195	2.88	0.88	7
Claremore	71.2	96	4	40	25	23	209	1.25	0.61	18	Porter	70.4	93	3	43	26	26	188	3.83	0.92	8
Copan	70.7	95	4	40	26	29	200	1.73	0.92	18	Pryor	69.4	95	4	36	26	43	176	1.48	0.45	7
Foraker	70.2	95	2	40	25	31	186	1.73	0.94	18	Skiatook	71.6	95	4	44	26	21	218	1.63	0.82	18
Jay	68.8	93	4	37	25	50	163	3.77	1.90	17	Vinita	69.2	94	4	37	25	44	169	3.01	1.32	17
Miami	68.9	94	4	38	26	43	161	4.01	2.20	17	Wynona	70.9	96	3	41	26	25	201	1.73	0.78	18
WEST CENTRAL																					
Bessie	72.2	96	7	45	25	16	232	3.58	1.61	3	Putnam	70.8	94	2	45	25	22	196	4.43	3.13	18
Butler	72.1	97	2	41	25	18	229	1.80	0.85	16	Retrop	72.0	97	7	43	25	15	224	1.18	0.85	3
Camargo	70.6	96	2	41	25	27	195	4.40	1.75	18	Watonga	71.2	96	7	44	25	22	208	4.50	3.60	18
Cheyenne	71.5	93	2	44	25	19	214	1.20	0.43	23	Weatherford	72.0	94	7	44	25	15	225	2.11	0.93	5
Erick	70.7	94	3	39	25	24	194	0.81	0.31	4											
CENTRAL																					
Acme	70.9	95	7	38	25	25	203	0.99	0.74	15	Minco	71.2	94	7	44	25	18	203	1.63	0.95	18
Bowlegs	69.5	91	2	42	25	33	168	7.85	2.92	18	Ninnekah	71.4	97	7	42	25	21	213	1.54	0.55	15
Bristow	69.4	93	3	39	26	38	170	2.85	0.89	18	Norman	70.2	91	2	43	25	23	179	4.44	2.18	18
Chandler	70.2	90	2	47	25	19	174	5.84	1.89	5	Oilton	69.3	94	3	39	25	41	171	3.69	1.11	18
Chickasha	70.8	97	7	43	10	27	201	2.45	1.29	18	Okemah	70.1	93	3	44	25	28	182	4.27	1.59	18
El Reno	69.0	95	7	33	25	48	168	2.84	2.06	18	Perkins	71.2	94	2	45	25	18	205	3.22	1.03	7
Guthrie	71.4	93	7	46	25	16	209	8.79	3.70	15	Shawnee	70.4	92	2	44	25	25	186	7.38	2.96	18
Kingfisher	71.5	98	7	44	25	19	214	6.13	3.56	18	Spencer	70.5	91	2	42	25	22	188	7.96	3.50	18
Marena	70.3	92	2	42	25	22	181	3.14	1.03	18	Stillwater	70.3	94	2	41	25	28	187	3.30	1.29	18
Marshall	70.9	94	7	42	25	22	201	3.94	2.01	15	Washington	70.5	92	2	47	25	19	184	8.09	2.08	18
EAST CENTRAL																					
Calvin	70.2	93	2	42	26	27	183	6.85	2.55	18	Sallisaw	70.6	92	3	42	26	28	194	2.44	0.98	18
Cookson	69.0	92	3	38	25	40	161	4.45	1.43	8	Stigler	69.8	92	7	41	25	34	177	3.38	1.47	8
Eufaula	70.9	91	7	45	25	20	197	4.20	1.40	8	Stuart	70.7	93	3	45	26	23	194	5.26	1.51	18
Haskell	70.6	94	3	42	26	29	196	2.43	1.05	18	Tahlequah	69.0	90	2	41	26	37	157	4.67	2.54	8
Hectorville	71.7	94	3	45	26	19	219	2.91	0.84	18	Webbers Falls	71.0	94	3	43	26	22	203	2.37	1.08	7
McAlester	70.6	92	3	44	25	28	196	7.93	2.79	8	Westville	68.6	91	3	41	25	42	149	3.91	1.50	8
Okmulgee	69.9	93	3	39	26	34	181	3.54	1.25	18											
SOUTHWEST																					
Altus	****	***	**	***	**	****	****	****	****	**	Hollis	73.1	98	7	44	25	11	253	0.68	0.25	2
Apache	71.5	95	7	46	25	15	211	0.98	0.69	3	Mangum	71.4	98	7	39	25	21	213	3.34	1.87	15
Fort Cobb	71.4	96	7	44	25	17	210	0.67	0.27	15	Medicine Park	72.8	96	7	49	25	8	242	1.27	0.58	15
Grandfield	74.4	102	7	46	25	10	291	1.52	0.55	4	Tipton	73.5	102	7	43	25	13	267	2.97	1.85	15
Hinton	71.8	96	7	42	25	19	225	1.28	0.72	18	Walters	74.3	99	7	45	25	9	287	2.02	1.42	4
Hobart	71.9	97	7	43	25	15	224	2.56	1.41	15											
SOUTH CENTRAL																					
Ada	70.0	93	2	43	25	30	181	****	****	**	Lane	71.6	91	2	46	26	19	218	4.25	1.09	8
Ardmore	71.5	93	3	46	25	18	213	10.23	3.99	15	Madill	71.8	91	3	49	26	14	219	****	****	**
Bee	****	***	**	***	**	****	****	14.31	4.49	20	Pauls Valley	71.3	93	2	47	30	17	205	10.72	4.19	15
Burneyville	71.7	94	3	44	26	24	224	6.28	2.76	20	Ringling	****	***	**	***	**	****	****	6.39	1.60	20
Byars	70.8	92	2	45	25	19	195	8.72	2.43	15	Sulphur	70.9	93	2	46	25	20	198	13.03	5.65	15
Centrahoma	70.3	92	2	42	26	29	190	5.89	1.90	15	Tishomingo	70.7	91	2	45	26	24	195	10.07	4.39	15
Durant	72.2	90	7	49	25	11	225	7.17	3.05	20	Vanoss	70.2	93	2	43	25	27	176	8.81	3.00	20
Ketchum Ranch	71.7	95	7	46	25	16	216	8.16	4.93	15	Waurika	72.9	96	7	46	25	15	251	5.16	1.70	17
SOUTHEAST																					
Antlers	70.2	92	3	39	26	35	191	4.38	1.26	18	Idabel	72.3	91	3	45	26	16	236	3.27	1.62	9
Broken Bow	71.3	91	8	42	26	24	212	2.62	1.48	9	Mt Herman	70.4	89	3	45	25	26	187	5.44	3.18	8
Clayton	71.1	93	3	43	26	26	208	6.00	3.51	8	Talihina	71.1	96	3	42	26	29	210	6.90	3.43	8
Cloudy	71.1	90	3	44	26	20	203	3.83	1.53	8	Wilburton	70.8	95	3	43	25	26	200	8.02	5.49	8
Hugo	71.7	90	2	47	26	16	216	4.74	2.22	8	Wister	70.8	96	3	40	26	35	208	5.39	2.66	8

EXTREME VALUES OF TEMPERATURE AND PRECIPITATION IN EACH CLIMATE DIVISION SEPTEMBER 2001

CD	MAX TEMP	DATE	LOCATION	MIN TEMP	DATE	LOCATION	24-HOUR PRECIP	DATE	LOCATION	MONTHLY PRECIP	LOCATION
1	100	7	GOODWELL	36	9	BOISE CITY	1.37	18	LAVERNE	3.05	GAGE
2	99	8	CHEROKEE	37	24	FT SUPPLY	3.21	16	ENID	4.83	ENID
3	99	4	NOWATA	37	26	BARTLESVILLE	2.62	18	MIAMI	4.97	MIAMI
				37	25	RALSTON					
				37	26	RALSTON					
4	98	8	CORDELL	38	25	HAMMON	3.35	18	WATONGA	4.59	WATONGA
				38	26	HAMMON					
5	99	8	KINGFISHER	40	26	BRISTOW	3.73	18	PIEDMONT	10.69	KONAWA
6	94	2	HOLDENVILLE	39	25	STILWELL	2.87	9	TAHLEQUAH	8.70	CALVIN
	94	5	MCCURTAIN	39	26	STILWELL					
	94	4	SALLISAW								
	94	4	WEBBERS FALL								
	94	8	WEBBERS FALL								
7	100	7	HOLLIS	39	25	ANADARKO	2.12	16	ALTUS DAM	3.49	ALTUS DAM
				39	26	ANADARKO					
8	100	7	MARLOW	42	25	MARLOW	5.20	15	KETCHUM RAN	13.52	TISHOMINGO
9	94	4	WISTER	39	26	BATTIEST	3.27	8	WILBURTON	6.62	WILBURTON
				39	26	SMITHVILLE					
				39	27	SMITHVILLE					
				39	30	SMITHVILLE					

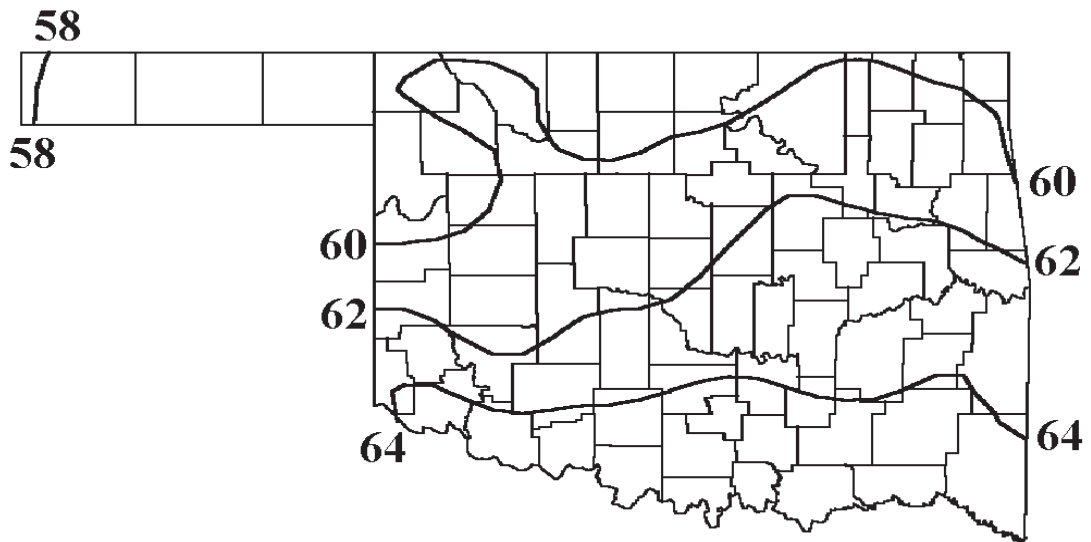
TABLE OF 2000/2001 COMPARISONS

Station	SEPTEMBER Temperature (°F)		SEPTEMBER Precipitation (in.)	
	2000	2001	2000	2001
Arnett	72.7	****	0.00	****
Enid	77.4	72.4	0.02	4.83
Tulsa	75.7	71.9	1.10	1.95
Elk City	75.4	71.5	0.00	1.58
Oklahoma City	76.1	70.7	1.73	5.56
McAlester	76.2	70.8	2.74	7.64
Altus Irr Station	76.1	72.7	1.10	1.75
Ardmore	78.9	72.7	1.19	8.83
Idabel	76.7	74.1	2.51	3.51

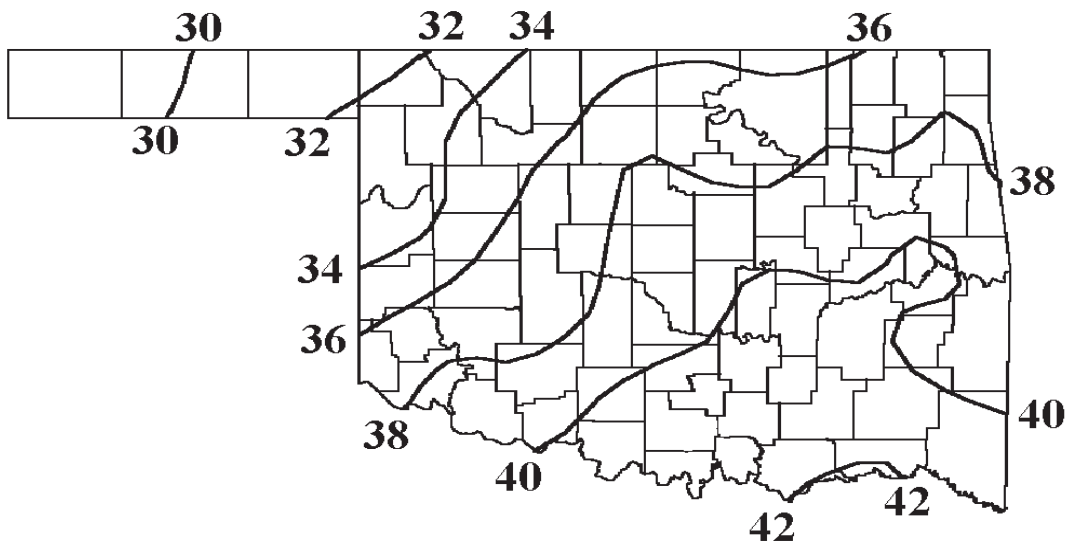
SEPTEMBER 2001 STATEWIDE EXTREMES

VARIABLE	STATION	DIVISION	OBSERVATION	DATE
Minimum temperature (°F)	Boise City	1	36	9
Maximum temperature (°F)	Goodwell	1	100	7
	Hollis	7	100	7
	Marlow	8	100	7
Maximum 24-hour Precipitation	Ketchum Ranch	8	5.20"	15

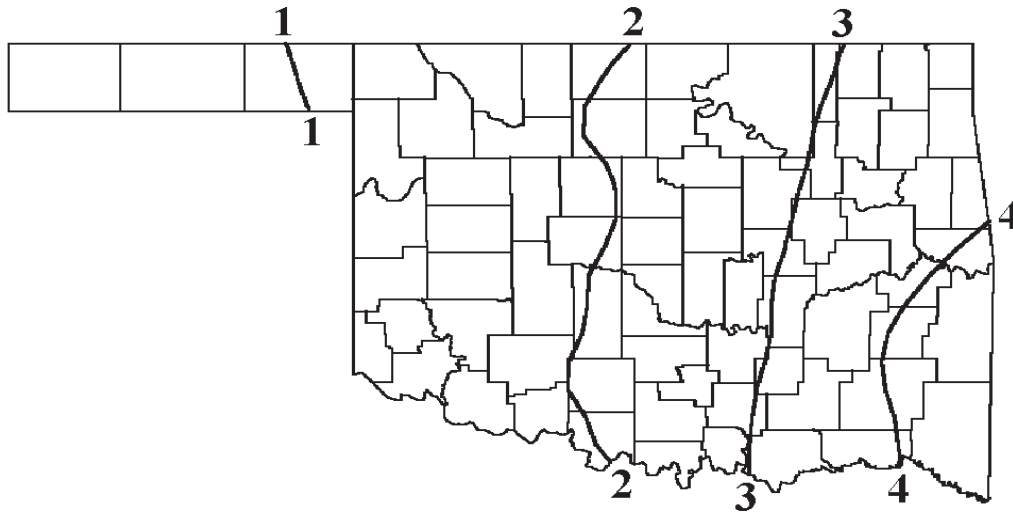
NOVEMBER NORMAL DAILY MAXIMUM TEMPERATURE (°F)



NOVEMBER NORMAL DAILY MINIMUM TEMPERATURE (°F)



NOVEMBER NORMAL MONTHLY PRECIPITATION (INCHES)



NOVEMBER TORNADO STATISTICS

The most tornadoes reported in **NOVEMBER** for Oklahoma was (12) in 1958.

The average number of tornadoes in **NOVEMBER** for Oklahoma is (1.4).

OUTLOOK FOR NOVEMBER 2001 THROUGH JANUARY 2002

BASED ON SEASONAL OUTLOOK PROVIDED BY THE CLIMATE PREDICTION CENTER

Temperature: Near Normal Temperature Statewide

Precipitation: Near Normal Precipitation Statewide

OKLAHOMA CITY CLIMATE CALENDAR

NOVEMBER

The data on this calendar are for Oklahoma City, Oklahoma.
 Normal values are calculated for the period 1961-1990.
 Temperature extremes are for the period 1905-1999.
 Precipitation extremes are for the period 1888-1999.

Day	Avg. Temp.	Ave. High	Record High	Year	Lowest Max	Year	Ave. Low	2001	Highest Min.	Year	Record Low	Year	Avg. Precip.	2001	Greatest Precip.	Year
1	55	67	83	1916	34	1951	44		65	1936	25	1991	0.08		1.05	1981
2	55	66	83	1924	26	1991	44		66	1938	19	1991	0.08		1.51	1974
3	55	66	84	1909	36	1991	43		63	1994	11	1991	0.08		1.51	1964
4	54	65	83	1921	40	1990	43		58	1916	23	1936	0.08		2.17	1986
5	54	65	87	1891	34	1951	43		64	1924	23	1951	0.08		1.23	1994
6	53	64	85	1980	39	1959	42		63	1945	20	1959	0.08		2.14	1895
7	53	64	86	1980	41	1953	42		62	1916	23	1993	0.07		1.71	1920
8	53	64	87	1980	39	1936	41		66	1966	19	1991	0.07		1.42	1895
9	52	63	82	1988	37	1950	41		61	1939	25	1955	0.07		1.15	1977
10	52	63	83	1995	33	1950	41		60	1982	20	1950	0.07		1.17	1937
11	51	62	83	1911	33	1935	40		61	1922	17	1911	0.07		1.10	1988
12	51	62	79	1910	29	1940	40		62	1902	14	1911	0.07		1.18	1922
13	51	61	80	1967	28	1986	40		61	1989	12	1940	0.07		3.22	1909
14	50	61	79	1973	29	1940	39		65	1897	14	1916	0.07		1.56	1924
15	50	60	84	1903	32	1932	39		61	1971	15	1940	0.07		2.43	1890
16	49	60	82	1941	31	1937	38		64	1958	14	1932	0.06		3.94	1931
17	49	60	80	1896	30	1903	38		61	1896	9	1894	0.06		1.70	1884
18	49	59	80	1930	35	1903	38		64	1934	13	1903	0.06		2.14	1899
19	48	59	82	1898	31	1937	37		63	1913	18	1937	0.06		4.46	1899
20	48	58	78	1989	25	1906	37		60	1990	19	1937	0.06		2.17	1994
21	47	58	80	1927	29	1926	37		58	1902	14	1898	0.06		1.48	1916
22	47	58	78	1982	27	1898	36		60	1966	15	1898	0.06		1.54	1931
23	47	57	79	1973	29	1895	36		60	1966	19	1950	0.06		1.62	1931
24	46	57	76	1990	32	1918	35		60	1966	15	1950	0.06		1.14	1973
25	46	56	84	1965	28	1993	35		62	1966	15	1993	0.06		2.01	1940
26	45	56	81	1910	31	1992	35		62	1990	13	1993	0.06		1.80	1982
27	45	56	82	1905	25	1896	34		63	1927	16	1976	0.06		1.30	1908
28	45	55	81	1949	26	1911	34		58	1927	14	1896	0.05		1.44	1908
29	44	55	80	1927	28	1897	34		64	1933	11	1911	0.05		0.67	1936
30	44	55	74	1946	32	1896	33		60	1933	13	1976	0.05		0.72	1909
MONTH	49.6	60.4	87	1980	25	1906	38.6		66	1966	9	1894	1.98		4.46	1899

DATA COURTESY OF NATIONAL WEATHER SERVICE – NORMAN
 Temperatures are in degrees Fahrenheit; precipitation is in inches.

TULSA CLIMATE CALENDAR

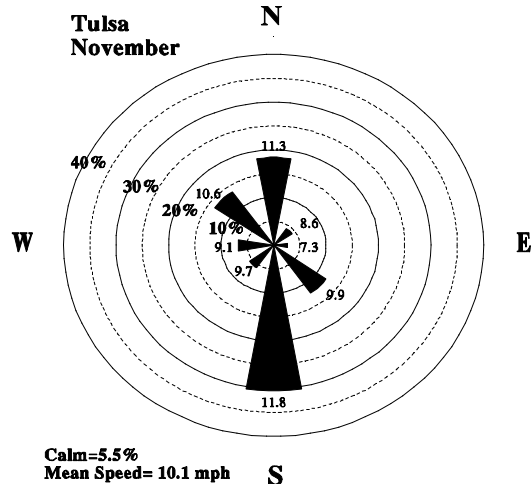
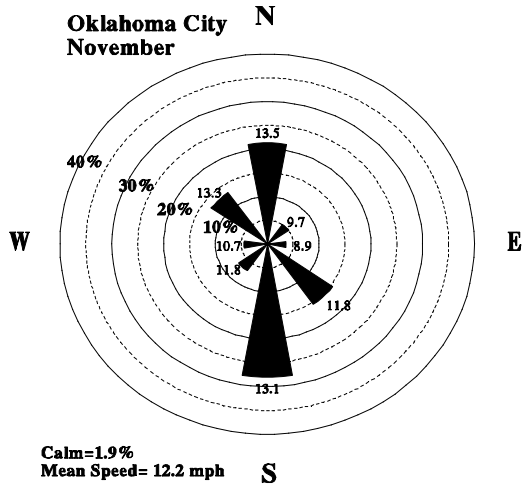
NOVEMBER

The data on this calendar are for Tulsa, Oklahoma.
 Normal values are calculated for the period 1961-1990.
 Temperature extremes are for the period 1905-2000.
 Precipitation extremes are for the period 1888-2000.

Day	Avg. Temp.	Ave. High	Record High	Lowest Max	Year	Ave. Low	Highest Min.	Record Low	Year	Avg. Precip.	2001	Greatest Precip.	Year
1	56	67	85	37	1916	45	64	25	1987	0.11		2.10	1901
2	55	67	89	27	1909	44	65	20	1983	0.11		2.82	1974
3	55	66	88	36	1909	44	67	16	1983	0.11		3.20	1974
4	55	66	86	39	1914	44	62	21	1909	0.11		2.49	1994
5	54	65	87	34	1914	43	61	25	1924	0.11		1.39	1994
6	54	65	87	39	1945	43	70	20	1924	0.11		3.49	1996
7	53	64	85	41	1980	43	65	22	1945	0.11		3.67	1918
8	53	64	84	41	1980	42	67	16	1966	0.11		1.45	1977
9	52	63	82	42	1934	42	60	23	1931	0.11		0.95	1916
10	52	63	83	37	1995	42	62	21	1949	0.11		1.31	1937
11	52	62	85	31	1989	41	60	17	1949	0.11		1.57	1992
12	51	62	83	31	1999	41	67	15	1931	0.11		2.64	1972
13	51	61	84	30	1910	40	62	12	1989	0.11		1.80	1985
14	51	61	79	30	1989	40	64	13	1913	0.11		1.72	1909
15	50	60	82	38	1950	40	63	11	1964	0.11		2.50	1964
16	50	60	83	28	1963	39	65	14	1958	0.11		1.85	1996
17	49	59	80	31	1969	39	58	11	1941	0.11		1.24	1952
18	49	59	82	32	1930	39	63	19	1934	0.10		1.26	1964
19	48	59	81	29	1908	38	64	14	1913	0.10		1.70	1900
20	48	58	81	28	1989	38	64	16	1913	0.10		4.59	1979
21	48	58	79	30	1927	38	58	18	1913	0.10		1.76	1934
22	47	57	79	33	1966	37	64	16	1913	0.10		2.34	1931
23	47	57	78	33	1974	37	63	17	1966	0.10		0.80	1931
24	46	56	80	35	1965	36	61	14	1966	0.10		2.54	1973
25	46	56	84	31	1965	36	62	17	1915	0.10		1.50	1940
26	46	56	83	30	1965	36	61	14	1927	0.10		1.56	1982
27	45	55	77	35	1927	35	62	16	1927	0.09		1.13	1982
28	45	55	81	26	1949	35	63	13	1998	0.09		2.60	1908
29	44	54	82	32	1927	34	63	10	1933	0.09		2.80	1908
30	44	54	76	32	1933	34	56	13	1933	0.09		0.73	1981
MONTH	49.9	60.3	89	26	1909	39.5	70	10	1924	0.10		4.59	1979

DATA COURTESY OF NATIONAL WEATHER SERVICE – TULSA
 Temperatures are in degrees Fahrenheit; precipitation is in inches.

NOVEMBER WIND ROSES



November 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.

NOVEMBER SUNRISE/SUNSET TIMES FOR 2001

ALL TIMES ARE CENTRAL STANDARD TIME

OKLAHOMA CITY

DATE	SUNRISE	SUNSET
11/1/01	6:52 AM	5:35 PM
11/2/01	6:53 AM	5:34 PM
11/3/01	6:54 AM	5:33 PM
11/4/01	6:55 AM	5:32 PM
11/5/01	6:56 AM	5:31 PM
11/6/01	6:57 AM	5:30 PM
11/7/01	6:58 AM	5:29 PM
11/8/01	6:59 AM	5:29 PM
11/9/01	7:00 AM	5:28 PM
11/10/01	7:01 AM	5:27 PM
11/11/01	7:02 AM	5:26 PM
11/12/01	7:03 AM	5:25 PM
11/13/01	7:04 AM	5:25 PM
11/14/01	7:05 AM	5:24 PM
11/15/01	7:06 AM	5:23 PM
11/16/01	7:07 AM	5:23 PM
11/17/01	7:08 AM	5:22 PM
11/18/01	7:09 AM	5:22 PM
11/19/01	7:10 AM	5:21 PM
11/20/01	7:11 AM	5:21 PM
11/21/01	7:12 AM	5:20 PM
11/22/01	7:13 AM	5:20 PM
11/23/01	7:14 AM	5:19 PM
11/24/01	7:15 AM	5:19 PM
11/25/01	7:16 AM	5:19 PM
11/26/01	7:16 AM	5:18 PM
11/27/01	7:17 AM	5:18 PM
11/28/01	7:18 AM	5:18 PM
11/29/01	7:19 AM	5:18 PM
11/30/01	7:20 AM	5:17 PM

TULSA

DATE	SUNRISE	SUNSET
11/1/01	6:47 AM	5:28 PM
11/2/01	6:48 AM	5:27 PM
11/3/01	6:49 AM	5:26 PM
11/4/01	6:50 AM	5:25 PM
11/5/01	6:51 AM	5:24 PM
11/6/01	6:52 AM	5:23 PM
11/7/01	6:53 AM	5:22 PM
11/8/01	6:54 AM	5:21 PM
11/9/01	6:55 AM	5:20 PM
11/10/01	6:56 AM	5:19 PM
11/11/01	6:57 AM	5:19 PM
11/12/01	6:58 AM	5:18 PM
11/13/01	6:59 AM	5:17 PM
11/14/01	7:00 AM	5:16 PM
11/15/01	7:01 AM	5:16 PM
11/16/01	7:02 AM	5:15 PM
11/17/01	7:03 AM	5:15 PM
11/18/01	7:04 AM	5:14 PM
11/19/01	7:05 AM	5:13 PM
11/20/01	7:06 AM	5:13 PM
11/21/01	7:07 AM	5:12 PM
11/22/01	7:08 AM	5:12 PM
11/23/01	7:09 AM	5:11 PM
11/24/01	7:10 AM	5:11 PM
11/25/01	7:11 AM	5:11 PM
11/26/01	7:12 AM	5:10 PM
11/27/01	7:13 AM	5:10 PM
11/28/01	7:14 AM	5:10 PM
11/29/01	7:15 AM	5:10 PM
11/30/01	7:15 AM	5:09 PM

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