

OKLAHOMA MONTHLY SUMMARY NOVEMBER 1996

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MONTHLY SUMMARY FOR NOVEMBER 1996

Monthly precipitation during November was above normal across most of Oklahoma. The total precipitation for the month, averaged statewide of 5.27 inches, 2.85 inches greater than normal, ranks as the 6th greatest November precipitation total since 1892. The large November precipitation total finished the 7th wettest autumn in the 105 years of statewide records, 13.90 inches, exceeding the normal value by 4.47 inches. Year-to-date precipitation for the state totals 36.15 inches, 4.17 inches greater than normal for the first eleven months of the year, the 22nd highest total on record.

The state's average temperature for November was a brisk 46.5 degrees, 3.3 degrees lower than normal, ranking this as the 17th coldest November on record. Autumn temperatures averaged 59.1 degrees, 2.5 degrees below normal, to rank 4th coldest all-time. The average temperature for the year, thus far, is 61.3 degrees, 0.9 degree lower than normal and 17th lowest all-time.

Heavy thunderstorms on the 1st produced large hail at Tupelo (Coal County) and over two inches of rain at several locations, including McCurtain (Haskell), Spiro (LeFlore) and Bengal (Latimer). A pleasantly warm interlude that included high temperatures in the upper 70s and low 80s on the 5th ended with the passage of a vigorous cold front on the 6th. Thunderstorms developed ahead of the front producing large hail in Grady, Stephens, Garvin, Carter and Pushmataha counties and heavy rain that led to localized flooding over much of the eastern one-third of the state. The Antlers (Pushmataha) Mesonet site recorded a two-day precipitation of 5.86 inches. Spiro (LeFlore), Eufaula (McIntosh) and Zoe (LeFlore) each recorded between 4.5 and 5 inches. A Pushmataha County man drowned, apparently when he was caught in flood waters that had caused his car to stall.

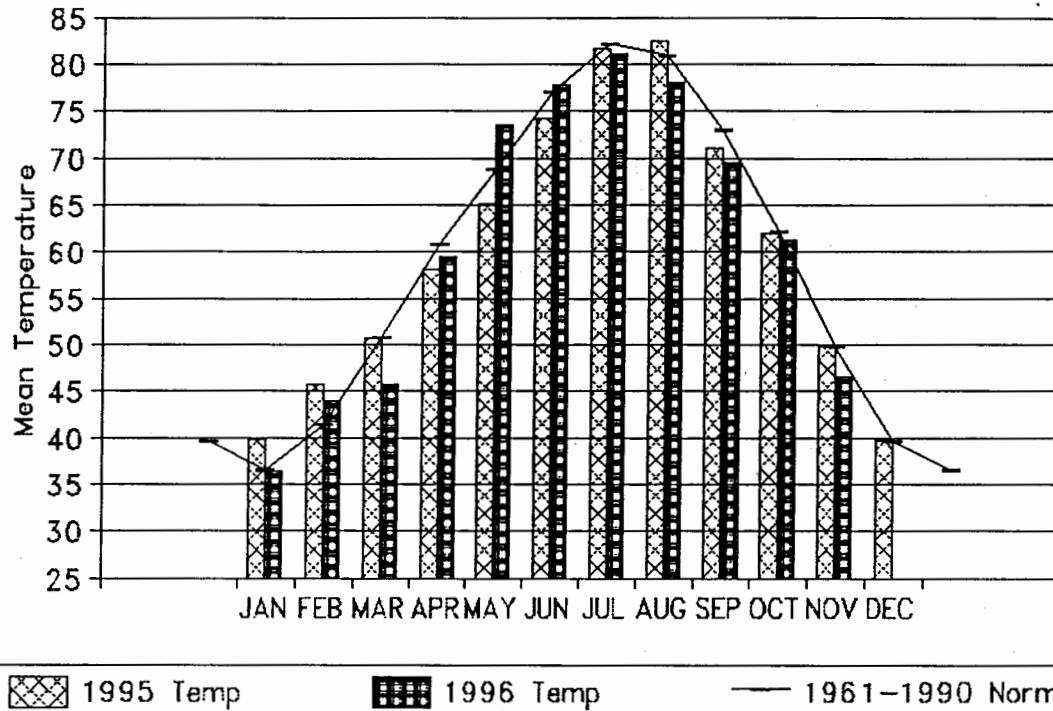
A full-scale winter storm that moved northeastward out of New Mexico on the 16th brought an inch-and-a-half of snow and temperatures in the teens to the western Panhandle, heavy rains across much of the north and severe thunderstorms across much of southern Oklahoma. Cherokee (Alfalfa) received 4 inches of rain. Mesonet sites near Alva (Woods) and Blackwell (Kay) noted 3.73 and 3.72 inches of precipitation, respectively. Local flooding was reported in Woods, Alfalfa, Grant, Kay, Noble, Grady, Stephens, Tulsa, Creek and Rogers counties. Temperatures plunged to 14 degrees at Boise City and 16 at the Kenton Mesonet site (both in Cimarron County) by the morning of the 17th, but the cold was short-lived. Daytime temperatures at both places soared into the 80s (84 at Boise City and 83 at Kenton, both recorded by Mesonet stations) on the 19th.

Cold air lingered over the main body of the state through the 23rd when it was reinforced by even colder air that led to a significant sleet and ice storm over the southeastern two-thirds of the state. Up to 3 inches of snow (or sleet) were reported, but the widespread occurrence of as much as one-and-one-half inches of freezing rain was more significant. Heavy rains in advance of the freezing air produced 6.71 inches of rain over three days at Hugo (Choctaw), 6.41 inches at Talihina (LeFlore) and 6.02 inches at Zoe (LeFlore). Many other locations reported over 5 inches of precipitation. Flooding was reported in low lying areas of LeFlore and McCurtain counties. Freezing rain behind the advancing cold front caused power outages in much of northeastern and south central Oklahoma and made driving treacherous. Temperatures plunged into the teens and twenties statewide. Beaver (Beaver) and Goodwell (Texas) Mesonet sites and the National Weather Service observer at Kenton (Cimarron) all reported low temperatures of 12 degrees on the 25th. Eight people lost their lives as a result of the storm: a lightning strike killed a teenage boy on a hunting trip, an Oklahoma City man died from hypothermia and six traffic-related fatalities were caused by icy or wet roads.

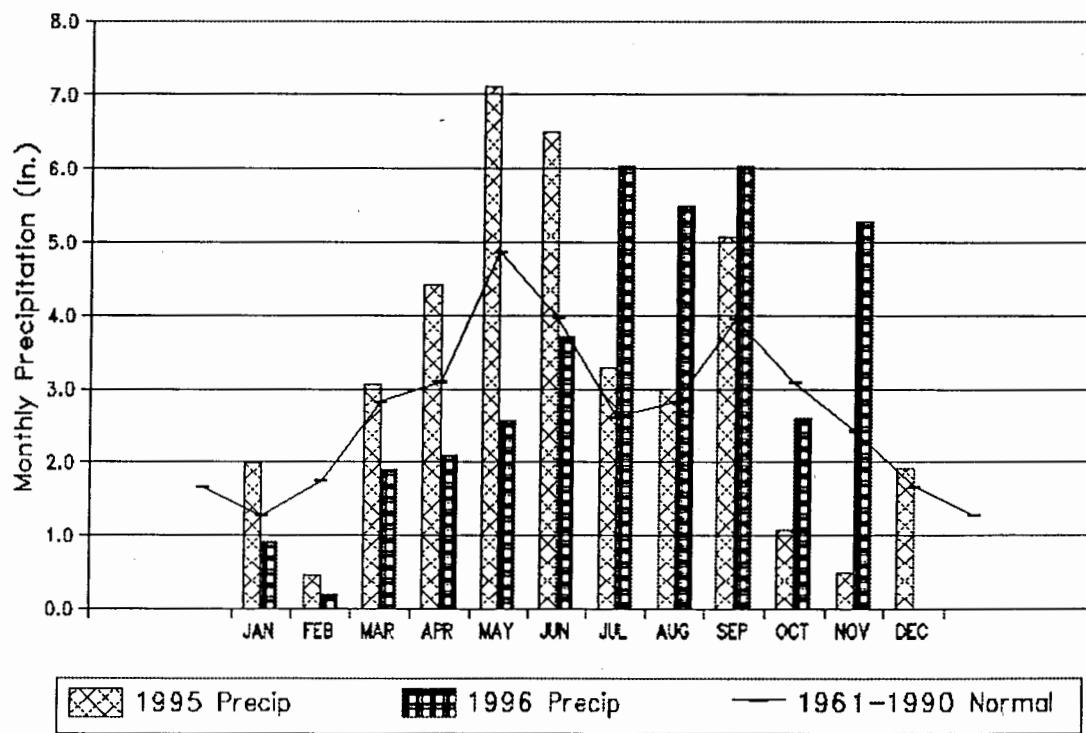
Another system on the 29th brought significant snow to far northwestern Oklahoma. May (Harper) reported 10 inches of snow with Boise City (Cimarron) showing 6 inches and Cherokee (Alfalfa) noting 5 inches. A mix of snow, rain and sleet fell in much of western Oklahoma with one-to-two inch rains common over the rest of the state. Daily minimum temperatures remained in the teens in many areas of the state at month's end.

Howard L. Johnson

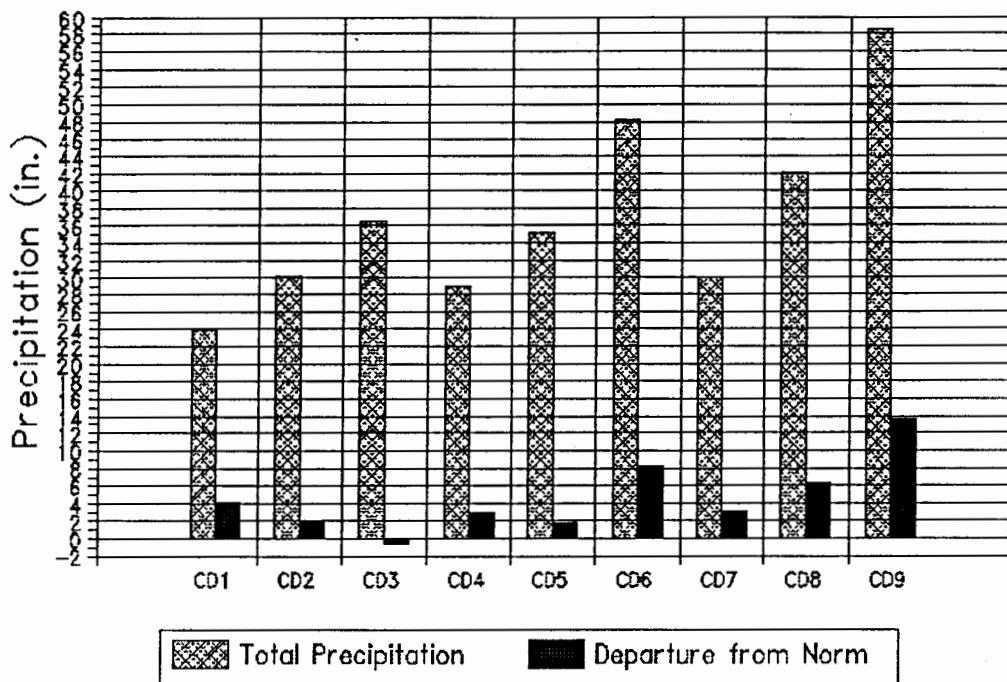
1995 and 1996 STATEWIDE TEMPERATURES Monthly Averages



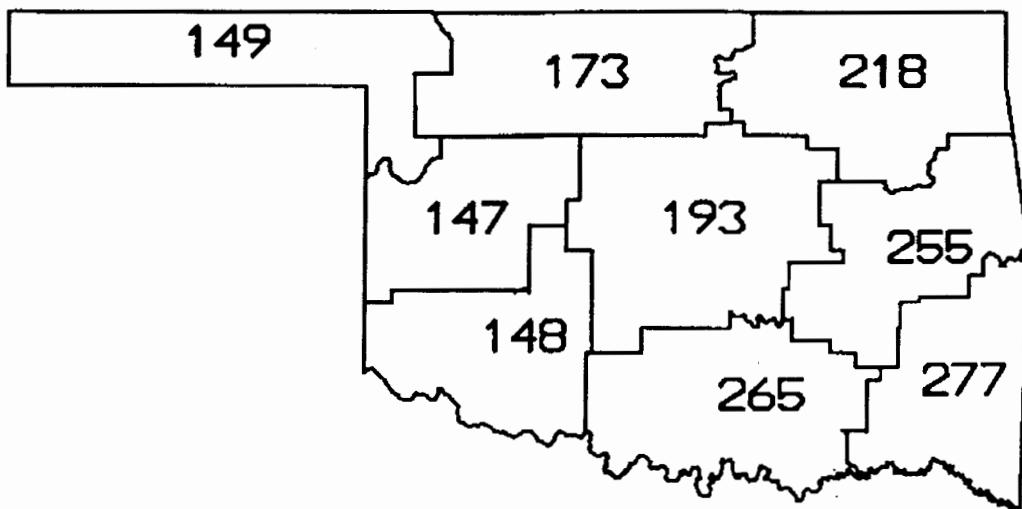
1995 and 1996 STATEWIDE PRECIPITATION Monthly Totals



CD Averaged Precipitation
January through November 1996



CD PERCENT OF NORMAL PRECIPITATION



NOVEMBER 1996

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

CD	MAX TEMP	DATE	LOCATION	MIN TEMP	DATE	LOCATION	24-HOUR PRECIP	DATE	LOCATION	MONTHLY PRECIP	LOCATION
1	82 82	19 19	BOISE CITY KENTON	12 12 12 12	26 25 26 25	BEAVER GOODWELL GOODWELL KENTON	2.60	17	FARGO	3.92	FARGO
2	79	6	FREEDOM	13	26	FREEDOM	4.00	16	CHEROKEE	5.60	ALVA
3	77	6	KEYSTONE	15	27	HULAH	4.15	7	CLAREMORE	9.84	CHELSEA
4	78 78 78	5 20 21	ERICK REYDON REYDON	16 16 16	28 25 26	HAMMON REYDON REYDON	2.10	17	COLONY	3.53	MORAVIA
5	80	5	GUTHRIE	15	27	GUTHRIE	4.01	6	MEEKER	8.36	BRISTOW
6	81	6	MCCURTAIN	19	26	STILWELL	4.85	7	EUFAULA	13.27	SHORT
7	82	5	MANGUM	19	25	FREDERICK	1.50	7	DUNCAN 11 W	4.28	RANDLETT
8	81	6	WAURIKA DAM	19	25	PAULS VALLEY	4.62	12	WAURIKA	12.06	MC GEE CREEK
9	79	6	WILBURTON	23 23 23 23 23	27 28 27 26 27	BATTIEST BATTIEST BROKEN BOW D PINE CREEK PINE CREEK	4.87	7	SPIRO	16.35	ZOE

TABLE OF 1995/1996 COMPARISONS

**NOVEMBER
Temperature (°F)**

**NOVEMBER
Precipitation (in.)**

Station	1995	1996	1995	1996
Arnett	46.2	42.1	0.07	2.76
Mutual	****	42.2	****	1.44
Tulsa	48.8	44.9	0.25	7.21
Elk City	51.4	46.3	0.05	3.30
Oklahoma City	49.3	46.3	0.39	3.37
McAlester	51.8	47.2	1.03	1.39
Altus Irr Station	53.2	50.7	0.17	1.42
Ardmore	54.1	51.0	0.95	6.69
Idabel	49.7	48.2	1.39	9.99

EXTREMES

VARIABLE	STATION	DIVISION	OBSERVATION	DATE
Minimum temperature (°F)	Beaver	1	12	26
	Goodwell	1	12	25
	Goodwell	1	12	26
	Kenton	1	12	25
Maximum temperature (°F)	Boise City	1	82	19
	Kenton	1	82	19
	Mangum	7	82	5
Maximum 24-hour precipitation	Spiro	9	4.87"	7

NOVEMBER 1996 SUMMARY FOR PANHANDLE DIVISION (CD1)

NAME	ID	CD	DEV			HEAT			DEV			COOL			DEV			
			MEAN	NUM	FROM	MAX	DAY	MIN	DAY	DEG	FROM	DEG	FROM	TOT	NUM	FROM	MAX	24-HR
ARNETT	332	1	42.1	30	-3.6	76	21	15	25	688	109	0	0	2.760	30	1.33	1.34	16
BEAVER	593	1	42.8	30	-1.5	78	7	12	26	667.5	43.5	0	0	2.132	30	1.11	1.8	16
BOISE CITY	908	1	43.1	30	-1.6	82	19	13	25	656	47	0	0	0.524	30	-0.2	0.3	30
BUFFALO	1243	1	44.2	30	-2.9	79	5	16	26	624.5	87.5	1	1	1.400	30	-0.22	1.1	16
FARGO	3070	1	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	3.924	29	*****	2.6	17
GAGE	3407	1	48.4	8	*****	78	20	26	11	133	*****	0	*****	0.010	12	*****	0.01	3
GATE	3489	1	43.1	29	-2.4	78	6	15	25	635.5	50.5	0	0	2.022	30	0.92	0.97	16
GOODWELL	3628	1	44.0	30	0.2	80	21	12	26	631.5	-4.5	0	0	0.421	30	-0.31	0.27	16
GUYMON	3835	1	42.6	30	*****	77	19	14	23	673	*****	0	*****	2.500	30	*****	1.98	30
HOOKER	4298	1	42.6	30	-2	75	21	14	25	671	59	0	0	1.080	30	0.3	0.72	16
KENTON	4766	1	44.6	29	1.3	82	19	12	25	590.5	-60.5	0	0	0.202	29	*****	0.16	30
LAVERNE	5045	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.923	30	0.75	1.59	17
REGNIER	7534	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.272	30	-0.29	0.22	30
TURPIN	9017	1	42.1	24	*****	74	7	13	25	548.5	*****	0	*****	1.400	25	*****	1.28	16

NOVEMBER 1996 SUMMARY FOR NORTH CENTRAL DIVISION (CD2)

NAME	ID	CD	DEV				HEAT				DEV				DEV			
			MEAN	NUM	FROM	MAX	DAY	MIN	DAY	DEG	FROM	COOL	DEG	FROM	TOT	NUM	FROM	MAX
			TEMP	OBS	NORM	TEMP	DAY	TEMP	DAY	DEG	NORM	DAY	PPT	OBS	NORM	24-HR		
ALVA	193	2	42.9	30	****	76	5	19	25	662	*****	0	*****	5.600	30	****	2.43	17
VANCE AFB	302	2	****	0	****	***	0	***	0	*****	*****	*****	*****	2.573	28	****	1.7	16
BILLINGS	755	2	43.7	30	-3.7	77	6	22	27	638	110	0	0	3.163	30	0.89	2.62	17
BLACKWELL 2E	818	2	46.5	19	*****	75	5	23	27	351	*****	0	*****	3.632	30	1.35	2.32	17
BRAMAN	1075	2	****	0	*****	***	0	***	0	*****	*****	*****	*****	3.472	30	****	2.44	17
CEDARDALE	1620	2	****	0	*****	***	0	***	0	*****	*****	*****	*****	2.010	30	****	0.85	16
CHEROKEE	1724	2	44.5	30	-3.4	74	5	20	25	614	101	0	0	4.550	30	3.03	4	16
ENID	2912	2	44.9	30	-3.7	76	5	21	27	602	110	0	0	2.750	30	0.54	1.6	17
FT SUPPLY	3304	2	43.0	26	*****	77	6	14	25	572.5	*****	0	*****	2.921	30	1.66	2.16	17
FREEDOM	3358	2	41.2	30	-5.8	79	6	13	26	715.5	175.5	0	0	3.460	30	2.11	2.13	17
GREAT SALT P	3740	2	42.9	21	****	71	11	20	27	464.5	*****	0	*****	3.800	22	****	2.38	17
HARDY	3909	2	****	0	*****	***	0	***	0	*****	*****	*****	*****	4.161	30	****	2.42	18
HELENA	4019	2	42.9	30	-3.1	76	6	21	27	663	93	0	0	2.102	30	0.29	1.01	17
JEFFERSON	4573	2	45.0	30	-3	77	5	22	26	600	90	0	0	3.462	30	1.28	1.79	16
LAMONT	5013	2	****	0	*****	***	0	***	0	*****	*****	*****	*****	2.351	30	****	1.47	17
MEDFORD	5768	2	****	0	*****	***	0	***	0	*****	*****	*****	*****	4.640	30	****	2.77	16
MORRISON	6065	2	****	0	*****	***	0	***	0	*****	*****	*****	*****	2.610	30	****	1	17
MUTUAL	6139	2	42.2	30	-4	75	6	17	26	685.5	121.5	0	0	1.440	30	0.04	0.74	17
NEWKIRK	6278	2	44.0	30	-4	74	5	20	26	631	121	0	0	4.522	30	2.11	3.13	17
ORIENTA	6751	2	****	0	*****	***	0	***	0	*****	*****	*****	*****	1.940	30	0.22	1.31	17
PERRY	7012	2	44.4	18	****	65	20	22	26	370.5	*****	0	*****	2.981	21	****	1.56	17
PONCA CITY	7201	2	45.8	29	-1.5	77	5	22	26	555.5	24.5	0	0	3.391	29	****	1.82	16
RED ROCK	7505	2	****	0	*****	***	0	***	0	*****	*****	*****	*****	3.890	30	1.8	2.8	17
WAYNOKA	9404	2	43.7	30	-4.3	78	5	19	27	639.5	129.5	0	0	2.701	30	1.17	1.67	17
WOODWARD	9760	2	****	0	*****	***	0	***	0	*****	*****	*****	*****	2.673	30	1.3	1.87	17

NOVEMBER 1996 SUMMARY FOR NORTHEAST DIVISION (CD3)

NAME	ID	CD	DEV				HEAT				COOL				DEV			
			MEAN	NUM	FROM	MAX	MIN	TEMP	DAY	DEG	FROM	DEG	FROM	TOT	NUM	FROM	MAX	24-HR
			TEMP	OBS	NORM	TEMP	DAY	TEMP	DAY	DEG	NORM	DAY	OBS	NORM	TEMP	DAY	2.57	17
BARNSDALL	535	3	44.3	30	-4.8	73	5	21	26	621.5	144.5	0	0	7.172	29	3.83	2.9	17
BARTLESVILLE	548	3	44.4	30	-4.8	72	5	20	27	619	145	0	0	6.553	30	2.86	2.01	7
BIXBY	782	3	44.1	30	-4.3	76	6	23	28	627.5	129.5	0	0	6.000	30	2.19	1.4	16
BURBANK	1256	3	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	3.942	30	*****	2.7	7
CHELSEA	1717	3	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	9.840	30	*****	2.7	7
CLAREMORE	1828	3	43.5	30	-5	75	6	22	28	643.5	148.5	0	0	8.610	30	5.38	4.15	7
CLEVELAND 2	1902	3	46.3	27	*****	75	5	21	27	505	*****	0	*****	5.451	30	*****	2.96	17
FORAKER	3250	3	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	1.950	30	-0.63	0.51	29
HOLLOW	4258	3	*****	0	*****	***	0	****	0	*****	*****	*****	*****	7.201	30	3.7	3.51	7
HOMINY	4289	3	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	6.771	30	4.14	3.12	17
HULAH	4393	3	40.4	18	*****	71	6	15	27	442.5	*****	0	*****	4.363	22	*****	2.46	17
KANSAS	4672	3	45.9	24	*****	74	5	19	27	457.5	*****	0	*****	7.232	26	*****	2.15	7
KEYSTONE	4812	3	44.3	25	*****	77	6	21	30	518.5	*****	0	*****	6.630	30	3.88	3.12	7
LENAPAH	5118	3	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	6.020	30	*****	2.5	17
MANNFORD	5522	3	45.9	30	-4	76	5	22	27	573	120	0	0	8.711	30	5.87	3.41	7
MARAMEC	5540	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.310	30	2.68	2.06	17
MIAMI	5855	3	41.4	29	-6.4	74	5	20	26	683.5	167.5	0	0	7.890	30	4.08	3.32	7
NOWATA	6485	3	42.8	30	-6.5	73	6	21	27	664.5	193.5	0	0	8.060	30	4.82	3.68	7
OOLOGAH	6729	3	45.2	19	*****	74	6	21	27	375.5	*****	0	*****	6.423	19	*****	2.82	7
PAWHUSKA	6935	3	44.5	30	-4.1	73	5	20	26	615	123	0	0	5.833	30	3.01	3.19	17
PAWNEE	6940	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.560	30	3.03	3.7	17
PRYOR	7309	3	44.0	30	-3.9	76	6	21	28	631	118	0	0	7.972	30	4.35	2.85	7
RALSTON	7390	3	45.2	30	-3.9	76	5	22	28	594.5	117.5	0	0	4.756	30	2.22	2.5	17
SKIATOOK	8258	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.010	30	3.97	2.87	7
SPAVINAW	8380	3	47.1	30	-4.2	75	5	21	26	538	123	0	0	8.615	30	4.88	3.03	7
TULSA	8992	3	44.9	30	-5	75	5	21	27	602	149	0	0	7.215	30	4.08	3.49	6
UPPER SPAV	9101	3	43.7	30	*****	74	5	21	28	640.5	*****	0	*****	6.342	30	*****	2.2	7
VINITA	9203	3	43.3	30	-5.2	75	5	20	26	650.5	155.5	0	0	7.400	30	3.57	2.71	7
WAGONER	9247	3	46.7	30	-4.3	75	5	21	26	548.5	123.5	0	0	7.931	30	4.35	1.81	17
WANN	9298	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.001	29	*****	2.5	17
WYNONA	9792	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.613	30	*****	2.98	17

NOVEMBER 1996 SUMMARY FOR WEST CENTRAL DIVISION (CD4)

NAME	ID	CD	DEV				HEAT				COOL				DEV			
			MEAN	NUM	FROM	MAX	MIN	TEMP	DAY	DEG	FROM	DEG	FROM	TOT	NUM	FROM	MAX	24-HR
			TEMP	OBS	NORM	TEMP	DAY	TEMP	DAY	DEG	NORM	DAY	OBS	NORM	TEMP	DAY	1.25	17
CANTON DAM	1445	4	44.4	27	*****	75	7	19	26	557	*****	0	*****	2.800	29	*****	1.11	17
CLINTON	1909	4	45.7	28	*****	74	5	19	25	541	*****	0	*****	2.424	29	*****	2.1	17
COLONY	2039	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.010	30	*****	1.53	17
CORDELL	2125	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.441	30	-0.31	0.65	29
ELK CITY	2849	4	46.3	30	-2.3	75	4	19	25	561	69	0	0	3.300	30	1.65	1.23	29
ERICK	2944	4	46.8	30	-2.1	78	5	19	27	545.5	62.5	0	0	2.071	30	0.74	0.68	17
GEARY	3497	4	48.2	29	-0.3	76	5	27	25	488	-7	0	0	1.800	29	*****	1.53	17
HAMMON	3871	4	43.3	30	-3.1	76	6	16	28	651.5	93.5	0	0	3.220	30	1.6	1.51	16
LEEEDEY	5090	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.800	30	1.25	1.31	16
MACKIE	5463	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.050	30	*****	0.7	17
MORAVIA	6035	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.530	30	2.15	1.76	17
OKEENE	6629	4	44.6	30	-4.7	76	5	20	27	611.5	140.5	0	0	1.650	30	-0.3	0.93	17
RETROP	7565	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.680	30	*****	1.1	29
REYDON	7579	4	46.1	30	-1.5	78	21	16	26	567	45	0	0	1.400	30	0.25	0.8	17
SAYRE	7952	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.080	30	1.73	1.34	16
SWEETWATER	8652	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.890	30	*****	0.93	17
TALOGA	8708	4	44.0	30	-3.4	75	5	18	27	629.5	101.5	0	0	2.472	30	0.67	0.97	17
THOMAS	8815	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.630	30	*****	1.55	18
VICI	9172	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.650	30	0.06	0.8	17
WATONGA	9364	4	45.1	30	-3.3	76	5	20	27	598	100	0	0	2.486	30	0.68	1.62	17
WEATHERFORD	9422	4	45.0	29	-2.7	75	5	20	25	579.5	60.5	0	0	2.050	29	*****	0.85	16

NOVEMBER 1996 SUMMARY FOR CENTRAL DIVISION (CD5)

NAME	ID	CD	MEAN	NUM	DEV	FROM	MAX	MIN	HEAT	DEV	COOL	DEV	DEV	FROM	MAX			
			TEMP	OBS	NORM	TEMP	DAY	TEMP	DAY	DEG	FROM	DEG	FROM	TOT	NUM	FROM	24-HR	DAY
AMBER	200	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.840	30	*****	1.22	17
ARCADIA	288	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.234	30	*****	1.4	7
BLANCHARD	830	5	48.5	30	-2.7	77	5	22	27	494.5	80.5	0	0	5.323	30	3.22	2.23	7
BRISTOW	1144	5	47.0	30	-3.5	76	5	21	27	540	100	0	-5	8.362	30	5.47	3.82	7
CHANDLER	1684	5	48.5	24	*****	78	5	20	27	395	*****	0	*****	6.971	26	*****	3.75	7
CHICKASHA	1750	5	48.2	30	-2.6	75	5	20	27	503.5	77.5	0	0	2.670	30	0.72	0.99	29
COX CITY	2196	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.650	30	*****	1.91	7
CRESCENT	2242	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.890	30	*****	1.25	17
CUSHING	2318	5	44.9	27	*****	76	6	21	27	541.5	*****	0	*****	5.902	28	*****	2.1	7
EDMOND	2788	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.850	27	*****	0.85	6
EL RENO	2818	5	47.3	30	-1.7	75	5	20	27	532.5	49.5	0	0	2.813	30	1.06	1.19	17
GUTHRIE	3821	5	45.6	28	*****	80	5	15	27	545	*****	1	*****	4.164	28	*****	2.1	29
HENNESSEY	4055	5	44.1	20	*****	71	5	22	26	418	*****	0	*****	1.981	25	*****	1.15	17
INGALLS	4489	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.503	30	*****	1.5	17
KINGFISHER	4861	5	45.4	30	-4.2	76	5	19	27	587.5	125.5	0	0	3.110	30	1.2	2.35	17
KONAWA	4915	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.530	30	1.8	1.5	23
MARSHALL	5589	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.990	30	1.08	2.12	17
MEEKER	5779	5	47.4	29	-3	77	5	20	27	509	71	0	0	5.342	29	*****	4.01	6
MULHALL	6110	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.310	30	*****	0.86	17
NORMAN NWS	6386	5	46.0	30	-5.1	75	5	22	27	570	153	0	0	4.613	30	2.13	2.22	6
OILTON	6616	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.970	30	*****	3.72	7
OKEMAH	6638	5	49.3	30	-1.9	77	5	25	27	470	56	0	0	5.531	30	2.59	1.51	17
OKLAHOMA CTY	6661	5	46.3	30	-3.3	76	5	21	27	562.5	100.5	0	0	3.374	30	1.39	1.64	6
PERKINS	7003	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.780	30	1.34	1.43	17
PIEDMONT	7068	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.100	30	*****	1.4	17
PRAGUE	7264	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.420	30	2.75	2.15	7
PURCELL	7327	5	48.8	30	-2.1	77	5	20	27	485.5	62.5	0	0	5.892	30	3.39	1.9	7
SEMINOLE	8042	5	48.2	30	-4.1	76	5	22	27	505	120	0	0	3.971	29	*****	0.94	30
SHAWNEE	8110	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.354	30	3.46	2.22	17
STELLA	8479	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.683	30	*****	3.7	6
STILLWATER	8501	5	45.7	30	-2.8	78	6	21	27	579.5	84.5	0	0	1.791	30	-0.46	0.96	17
STROUD	8563	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	8.272	30	*****	3.65	7
TROUSDALE	8960	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.570	30	*****	1.11	1
UNION CITY	9086	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.891	30	0.59	1.03	17
WELTY	9479	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.394	30	*****	2.18	7
WEWOKA	9575	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.770	30	2.98	2.18	17

NOVEMBER 1996 SUMMARY FOR EAST CENTRAL DIVISION (CD6)

NAME	ID	CD	MEAN	NUM	DEV	FROM	MAX	MIN	HEAT	DEV	COOL	DEV	DEV	FROM	MAX			
			TEMP	OBS	NORM	TEMP	DAY	TEMP	DAY	DEG	FROM	DEG	FROM	TOT	NUM	FROM	24-HR	DAY
ASHLAND	364	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	10.451	30	*****	3.1	24
BEGGS	631	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.840	30	*****	1.72	6
BOYNTON	1027	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.291	30	*****	1.65	24
CALVIN	1391	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.750	30	-0.22	1.95	17
CHECOTAH	1711	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	8.244	30	4.93	3.1	17
CLAYTON	1858	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	11.890	30	*****	3.89	7
DEWAR	2485	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.741	30	2.64	1.22	17
DUSTIN	2690	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.821	30	*****	1.5	25
EUFAULA	2993	6	48.2	30	-4.5	74	6	24	27	505	131	0	-5	11.150	30	7.71	4.85	7
HANNA	3884	6	47.5	30	-4.2	77	5	22	27	525.5	126.5	0	0	9.802	30	6.34	2.43	17
HARTSHORNE	3946	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	8.070	30	*****	2.25	25
HASKELL	3956	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.160	30	3.67	1.7	7
HOLDENVILLE	4235	6	48.7	20	*****	77	5	24	26	325.5	*****	0	*****	5.820	25	*****	2.16	1
LAKE EUFAULA	4975	6	45.5	28	*****	77	7	23	27	547.5	*****	1	*****	10.881	28	*****	3.4	7
LYONS	5437	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	10.680	30	6.91	3.5	7
MCALESTER	5664	6	47.2	18	*****	77	6	24	27	324	*****	3.5	*****	1.395	19	*****	0.74	16
MCCURTAIN	5693	6	48.9	30	-3.8	81	6	22	3	501.5	126.5	19	13	12.905	30	8.55	4.14	7
MUSKOGEE	6130	6	46.7	30	-4.3	76	5	23	26	550.5	123.5	0	0	4.820	30	1.27	1.41	23
OKMULGEE	6670	6	44.4	28	*****	78	6	21	29	578.5	*****	2.5	*****	6.101	29	*****	1.5	17
OKTAHA	6678	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.162	30	*****	1.86	24
QUINTON	7372	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	9.756	30	6.02	4.44	24
SALLISAW	7862	6	44.5	30	-7	75	7	25	27	613.5	211.5	0	0	12.090	30	7.98	3.55	7
SCIPIO	7979	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	8.970	30	*****	2.3	24
SCRAPER	7993	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.900	30	*****	2.2	7
SHORT	8170	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	13.270	30	*****	4.2	7
STILWELL	8506	6	45.5	30	-4.5	73	5	19	26	586	136	0.5	0.5	12.420	30	8.64	3.26	7
TAHLEQUAH	8677	6	45.7	30	-4.5	74	5	20	26	578.5	129.5	0	-5	9.020	30	5.44	1.97	17
WEBBERS FALL	9445	6	45.5	30	-4.7	78	7	22	27	586	142	0	0	12.340	30	8.97	3.85	7
WETUMKA	9571	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.110	30	1.9	1.28	17

NOVEMBER 1996 SUMMARY FOR SOUTHWEST DIVISION (CD7)

NAME	ID	CD	MEAN	NUM	DEV				HEAT				COOL				DEV			
					FROM	MAX	MIN	DAY	DEG	FROM	DEG	FROM	TOT	NUM	FROM	MAX	24-HR	DAY		
					TEMP	OBS	NORM	TEMP	DAY	TEMP	DAY	DEG	NORM	DAY	NORM	PPT	OBS	NORM		
ALTUS	179	7	50.7	30	-1.4	79	5	23	27	435	48	6	6	1.420	30	0.11	0.82	29		
ALTUS DAM	184	7	48.7	30	-0.9	79	6	22	25	493	31	4.5	4.5	1.820	30	0.46	0.85	29		
APACHE	260	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.350	30	0.54	1.11	17		
ALTUS AFB	447	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.117	29	*****	0.56	29		
CARNEGIE	1504	7	47.0	26	*****	76	5	20	27	468.5	*****	0	*****	0.142	25	*****	0.14	3		
CHATTANOOGA	1706	7	51.0	30	-0.5	80	5	24	27	419.5	17.5	1	1	2.530	30	0.99	0.99	29		
DUNCAN 11 W	2668	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.250	29	*****	1.5	7		
FREDERICK	3353	7	49.0	30	-1.7	77	6	19	25	482	53	2	2	1.972	30	0.37	1.1	29		
HEADRICK	3998	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.780	30	*****	0.7	28		
HOBART	4204	7	45.8	21	*****	76	5	22	25	404	*****	0	*****	0.830	23	*****	0.64	16		
HOLLIS	4249	7	47.2	30	-3.4	79	5	21	27	534	102	0	0	2.220	30	1.11	1.31	29		
LAWTON	5063	7	46.4	27	*****	72	17	24	25	501.5	*****	0	*****	2.490	28	*****	1	29		
FORT SILL	5068	7	48.4	29	*****	77	5	23	25	482	*****	0	*****	1.528	30	*****	0.69	29		
LOOKEBA	5329	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.881	30	0.09	0.62	17		
MANGUM	5509	7	49.1	30	-1.7	82	5	21	27	477	51	0	0	1.170	30	-0.09	1	29		
RANDLETT	7403	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.280	30	*****	1.1	24		
ROOSEVELT	7727	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.950	30	0.47	0.7	29		
SEDAN	8016	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.480	30	*****	0.55	29		
SNYDER	8299	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.442	30	0.9	1	1		
VINSON	9212	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.270	30	2.05	1.07	29		
WALTERS	9278	7	50.0	30	-2.4	78	5	24	27	451	68	0.5	0.5	3.770	30	1.68	0.96	29		
WICHITA MT	9629	7	48.2	25	*****	76	7	21	25	421	*****	0	*****	2.430	27	*****	0.98	17		
WILLOW	9668	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.125	30	*****	1.35	17		

NOVEMBER 1996 SUMMARY FOR SOUTH CENTRAL DIVISION (CD8)

NAME	ID	CD	MEAN	NUM	DEV				HEAT				COOL				DEV			
					FROM	MAX	MIN	DAY	DEG	FROM	DEG	FROM	TOT	NUM	FROM	MAX	24-HR	DAY		
					TEMP	OBS	NORM	TEMP	DAY	TEMP	DAY	DEG	NORM	DAY	NORM	PPT	OBS	NORM		
ADA	17	8	47.8	30	-4.3	77	5	22	27	516	123	0	-6	5.690	30	2.89	1.28	17		
ALLEN	147	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	8.050	30	*****	4	16		
ARDMORE	292	8	51.0	30	-3.5	77	6	25	27	426	104	5.5	-1.5	6.690	30	4.26	2.5	25		
ATOKA DAM	394	8	50.3	18	*****	79	6	21	25	268.5	*****	3.5	*****	6.411	18	*****	2.5	7		
BOKCHITO	917	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.041	30	*****	4	24		
CENTRAHOMA	1648	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	8.050	30	*****	2	24		
CHICKASAW	1745	8	48.3	28	*****	77	6	24	27	468	*****	0.5	*****	6.020	30	3.35	1.86	24		
COLEMAN	2011	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	8.100	30	*****	2.6	23		
COMANCHE	2054	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.430	30	5.35	2.55	24		
DAISY	2354	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	10.433	30	6.43	3.97	7		
DUNCAN	2660	8	48.5	30	-2.9	77	6	24	25	493.5	81.5	0	0	6.270	30	4.12	1.6	7		
ELMORE CITY	2872	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.950	30	*****	1.54	17		
GRADY	3688	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.330	29	*****	1.6	7		
HEALDTON	4001	8	49.4	30	-2.9	78	5	23	27	468	82	0	0	4.901	30	2.64	1.29	24		
HENNEPIN	4052	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.291	30	*****	2.12	17		
KETCHUM RAN	4780	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.940	30	*****	1.72	24		
KINGSTON	4865	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	8.370	29	*****	3.17	23		
LEHIGH	5108	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	9.457	30	*****	2	7		
LINDSAY	5216	8	49.3	30	-2	77	5	24	27	471.5	60.5	0	0	5.802	30	3.58	2.02	7		
LOCO	5247	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.000	30	*****	1.41	17		
MADILL	5468	8	48.8	27	*****	76	5	22	27	438	*****	0.5	*****	7.020	30	4.22	2.52	23		
MARIETTA	5563	8	51.6	30	-2	78	6	25	26	403.5	54.5	2	-5	6.370	30	3.77	2.15	7		
MARLOW	5581	8	49.2	30	-2.3	78	5	21	26	475.5	70.5	0	0	5.590	30	3.45	2.1	7		
MCGEE CREEK	5713	8	47.5	30	*****	78	6	24	27	525	*****	1	*****	12.060	30	*****	3.95	7		
PAULS VALLEY	6926	8	49.3	30	-2.8	79	5	19	25	470.5	78.5	0	0	5.880	30	3.35	1.35	17		
PONTOTOC	7214	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.231	30	4.27	2.34	23		
TISHOMINGO	8884	8	49.3	29	-4	78	5	26	28	460	104	5.5	5.5	6.630	30	3.61	2	25		
TUSSY	9032	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.521	30	*****	1.42	17		
WAURIKA	9395	8	51.1	30	-2	78	5	25	25	420.5	57.5	4.5	-1.5	9.532	30	7.71	4.62	12		
WAURIKA DAM	9399	8	53.7	15	*****	81	6	27	26	171.5	*****	1.5	*****	7.001	30	*****	3.97	23		

NOVEMBER 1996 SUMMARY FOR SOUTHEAST DIVISION (CD9)

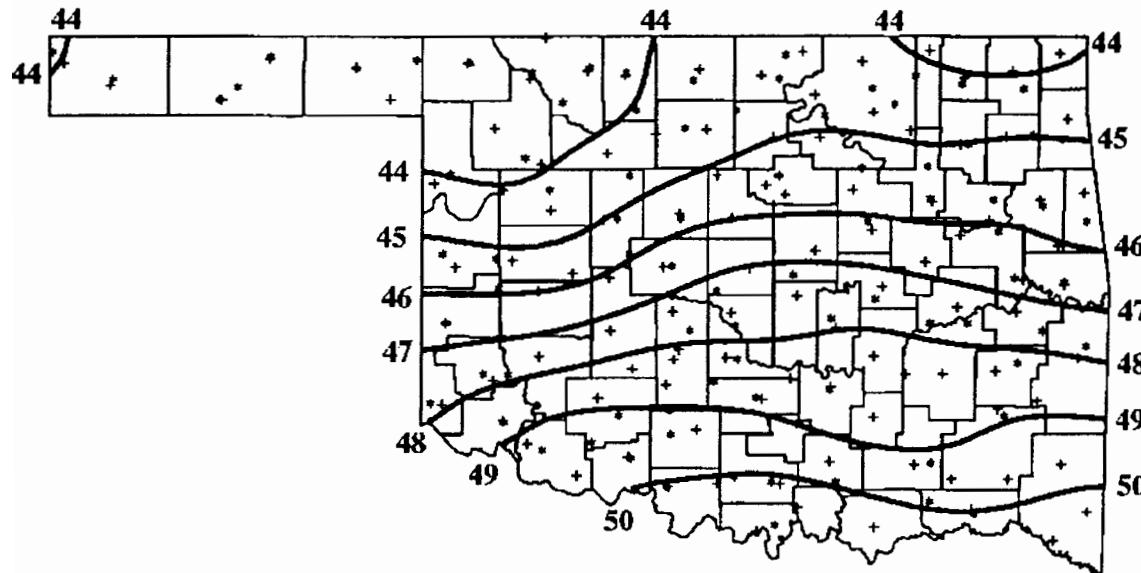
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			MEAN	NUM	FROM	MAX	TEMP	DAY	MIN	TEMP	DAY	DEG	FROM	DEG	FROM	TOT	NUM	FROM
			TEMP	OBS	NORM	TEMP	DAY	TEMP	DAY	DAY	NORM	DAY	NORM	PPT	OBS	NORM	24-HR	DAY
ANTLERS	256	9	52.8	23	*****	77	5	29	3	282.5	*****	2.5	*****	*****	0	*****	*****	0
BATTIEST	567	9	46.0	30	*****	70	7	23	28	568.5	*****	0	*****	13.021	30	*****	3.15	7
BEAR MT	584	9	48.8	25	*****	75	2	26	27	404.5	*****	0	*****	10.340	28	*****	2.9	7
BENGAL	670	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	14.991	30	*****	4.16	7
BOSWELL	980	9	49.9	29	-3.4	77	5	26	30	441	82	2.5	-5.5	11.120	29	*****	4	7
BROKEN BOW	1162	9	*****	0	*****	***	0	***	0	*****	*****	*****	*****	10.060	30	5.82	2.82	7
BROKEN BOW D	1168	9	48.4	30	-3.9	76	6	23	27	497.5	116.5	0	0	10.051	30	5.58	2.92	6
CARNASAW	1499	9	*****	0	*****	***	0	***	0	*****	*****	*****	*****	9.920	30	5.44	3.02	7
CARTER TWR	1544	9	*****	0	*****	***	0	***	0	*****	*****	*****	*****	8.280	30	4	3.25	6
FANSHAWE	3065	9	*****	0	*****	***	0	***	0	*****	*****	*****	*****	13.622	30	9.11	3.65	7
HEAVENER	4008	9	*****	0	*****	***	0	***	0	*****	*****	*****	*****	10.492	30	6.2	3.46	6
HUGO	4384	9	51.3	29	-3	78	5	27	25	403	73	5	-4	9.250	30	5.3	2.2	8
IDABEL	4451	9	48.2	30	-4.3	75	7	24	28	503	123	0	-5	9.993	30	5.89	2.13	25
PINE CREEK	7080	9	48.0	20	*****	74	7	23	29	341	*****	0	*****	8.141	22	*****	2.91	7
POTEAU	7254	9	47.3	30	*****	78	6	26	28	532	*****	0	*****	8.632	30	*****	2.5	23
SMITHVILLE	8285	9	46.3	30	-4.5	74	6	24	27	562.5	136.5	1	1	11.008	30	6.63	3.25	24
SPIRO	8416	9	*****	0	*****	***	0	***	0	*****	*****	*****	*****	13.620	30	9.2	4.87	7
TUSKAHOMA	9023	9	50.1	30	-2.8	75	5	23	27	452.5	83.5	6	0	12.101	30	7.97	3.57	7
VALLIANT	9118	9	*****	0	*****	***	0	***	0	*****	*****	*****	*****	10.190	30	6.03	3.51	7
WILBURTON	9634	9	47.9	30	-3.4	79	6	23	27	519.5	104.5	6	6	10.040	30	5.75	3.62	6
ZOE	9985	9	46.4	28	*****	72	7	24	27	522	*****	0	*****	16.351	28	*****	4.55	7

NOVEMBER 1996 CLIMATE DIVISION SUMMARY

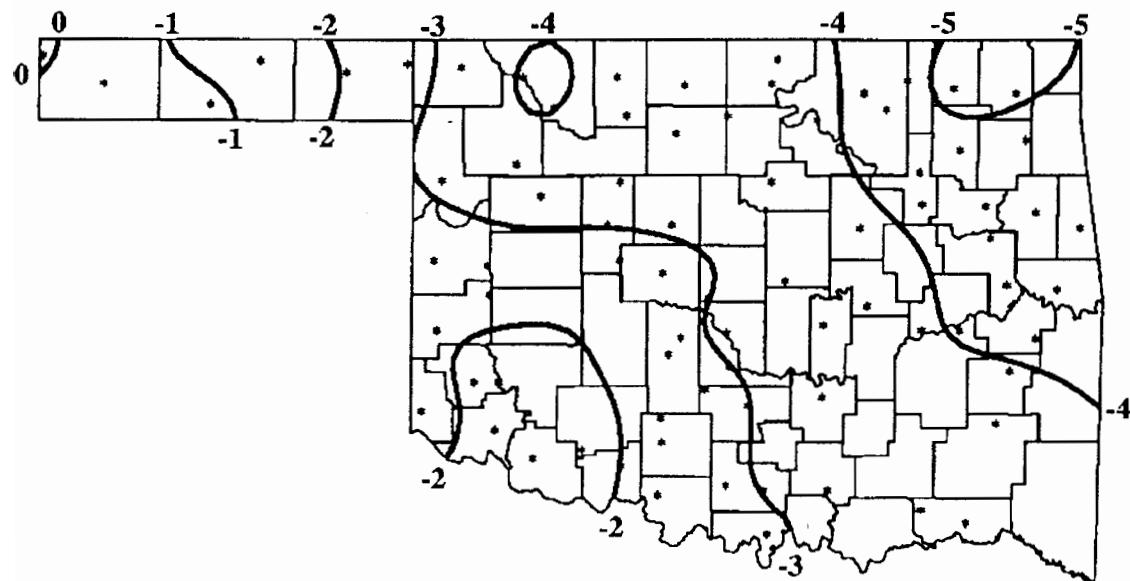
CD	DEV				HEAT				DEV				DEV			
	MEAN TEMP	NUM STA	FROM NORM	MAX TEMP	MIN DAY	TEMP	DAY	DEGREE DAYS	FROM NORM	COOL DEGREE	FROM NORM	TOT PPT	NUM STA	FROM NORM	MAX 24-HR	
1	43.2	9	-1.9	82	19	12	25	648.6	50.9	0.1	0.1	1.500	10	0.49	2.6	
2	43.7	11	-3.7	79	6	13	26	636.9	109.9	0	0	3.240	21	1.38	4	
3	44.4	15	-4.7	77	6	15	27	616.8	139.8	0	0	6.700	26	3.62	4.15	
4	45.5	9	-2.8	78	21	16	26	581.3	78.7	0	0	2.370	17	0.75	2.1	
5	47.3	12	-3	80	5	15	27	528.3	88.6	0	-0.3	4.640	29	2.24	4.01	
6	46.6	8	-4.6	81	6	19	26	555.8	139	2.4	0.3	8.590	25	5.09	4.85	
7	49.3	8	-1.5	82	5	19	25	471.7	42.8	1.8	1.8	2.290	17	0.74	1.5	
8	49.5	11	-3	81	6	19	25	466.4	85.3	1.7	-1.3	6.920	27	4.31	4.62	
9	48.4	9	-4	79	6	23	27	497.7	113.6	2.3	-1.9	10.950	16	6.76	4.87	

MESONET MONTHLY SUMMARY FOR NOVEMBER 1996

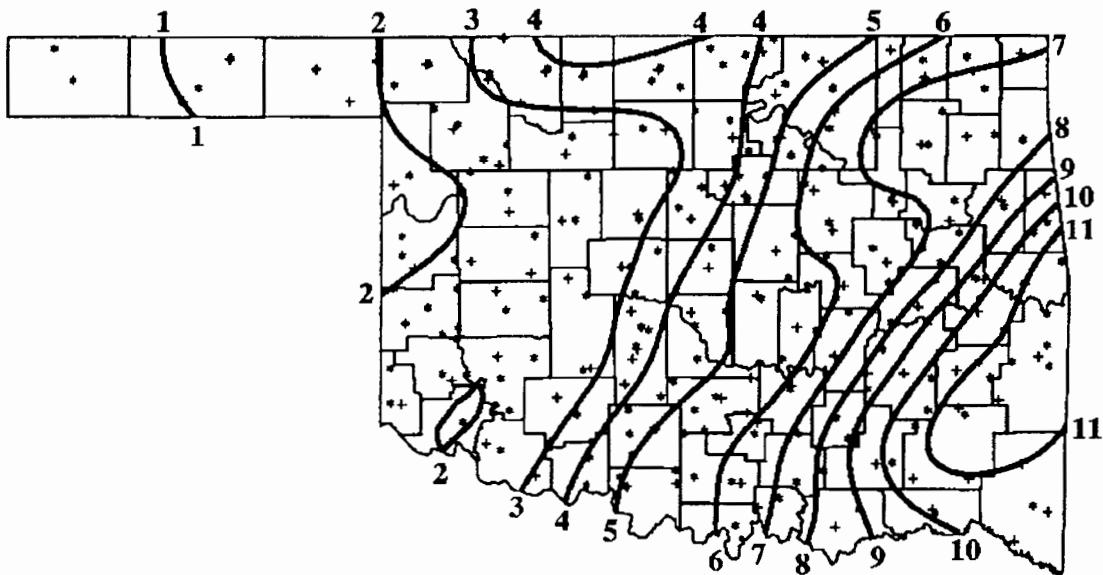
NAME	MEAN MAX MIN TOT MAX										NAME	MEAN MAX MIN TOT MAX																		
	TEMP	TEMP	DAY	TEMP	DAY	HDD	CDD	PPT	24-HR	DAY		TEMP	TEMP	DAY	TEMP	DAY	HDD	CDD	PPT	24-HR	DAY									
ARNETT	45.3	81	20	18	25	591	0	1.32	.96	16	GOODWELL	43.5	79	20	12	25	646	0	.48	.37	16									
BEAVER	42.7	78	5	12	25	668	0	1.92	.97	16	HOOKER	44.3	78	20	14	25	620	0	1.20	.80	16									
BOISE CITY	43.8	84	19	13	25	637	0	*****	.04	17	KENTON	44.3	83	19	13	25	620	0	*****	.02	14									
BUFFALO	43.9	80	5	17	25	633	0	1.76	1.42	16	SLAPOUT	44.4	79	5	16	25	617	0	1.37	1.10	16									
NORTH PANHANDLE																														
ALVA	43.5	75	5	21	25	645	0	5.17	3.73	16	MAY RANCH	42.7	77	5	18	25	670	0	3.40	2.09	16									
BLACKWELL	45.0	78	5	23	26	600	0	*****	3.72	16	MEDFORD	44.8	76	5	24	25	607	0	3.28	2.03	16									
BRECKENRIDGE	45.0	78	5	23	25	599	0	2.37	1.45	16	NEWKIRK	43.8	76	5	19	26	635	0	4.16	2.62	16									
CHEROKEE	43.4	73	5	21	25	648	0	4.36	3.55	16	RED ROCK	45.3	79	5	21	26	592	0	2.56	1.15	16									
FAIRVIEW	44.5	77	5	19	27	615	0	2.08	1.06	16	SEILING	44.8	78	5	20	25	604	0	2.02	.76	17									
FREEDOM	44.0	80	5	18	25	628	0	3.98	3.01	16	WOODWARD	44.7	78	5	17	25	608	0	2.26	1.67	16									
LAHOMA	44.4	74	5	22	25	618	0	2.61	1.50	16	NORTH CENTRAL																			
BIXBY	45.3	75	5	23	27	590	0	6.05	2.10	6	NOWATA	44.2	74	5	21	27	624	0	6.71	3.07	6									
BURBANK	43.4	76	5	19	27	648	0	3.81	2.08	16	PAWNEE	45.7	79	5	21	27	578	0	5.70	3.68	16									
CLAREMORE	45.6	77	5	20	27	582	0	8.46	4.10	6	PRYOR	46.0	77	5	21	27	570	0	6.95	2.47	6									
COPAN	43.4	70	5	20	27	649	0	4.85	1.85	16	SKIATOOK	45.2	75	5	22	26	595	0	7.84	3.12	6									
FORAKER	43.8	73	5	20	26	635	0	4.78	2.79	16	TULLAHASSEE	46.0	77	5	21	27	571	0	4.99	1.59	16									
JAY	44.4	76	5	20	26	618	0	*****	.65	29	VINITA	43.8	72	5	20	27	637	0	7.41	2.97	6									
MIAMI	43.2	74	5	20	26	653	0	6.99	2.84	6	WYNONA	45.1	77	5	21	27	596	0	6.47	2.95	16									
WEST CENTRAL																														
BESSIE	47.3	77	4	20	27	513	0	2.10	.83	18	PUTNAM	43.8	75	5	19	25	637	0	1.97	1.13	16									
BUTLER	46.0	78	5	20	25	571	0	1.13	.66	29	RETROP	46.2	76	5	21	25	564	0	1.70	.66	16									
CAMARGO	43.6	77	5	18	27	642	0	1.29	.88	16	WATONGA	44.0	73	5	20	25	629	0	2.10	1.16	16									
CHEYENNE	45.2	78	20	19	25	593	0	2.07	1.17	16	WEATHERFORD	44.0	71	4	20	25	631	0	1.74	.55	29									
ERICK	46.1	79	5	20	25	568	0	2.33	.97	16	CENTRAL																			
ACME	49.2	80	5	23	27	473	0	3.82	1.91	6	MINCO	47.3	77	5	21	27	529	0	3.41	1.11	6									
BOWLEGS	48.1	77	5	22	27	507	0	2.77	.78	16	NINNEKAH	48.7	78	5	23	27	488	0	2.23	.78	29									
BRISTOW	46.6	79	5	22	27	551	0	6.33	2.77	6	NORMAN	48.0	77	5	23	27	510	0	4.57	2.22	6									
CHANDLER	46.0	77	5	21	27	570	0	6.81	3.82	6	OILTON	45.6	78	5	19	27	581	0	6.96	3.44	6									
CHICKASHA	48.2	77	5	23	27	505	0	2.76	.82	6	OKEMAH	47.3	76	5	23	27	530	0	4.64	1.76	16									
EL RENO	46.0	78	5	19	27	570	0	2.29	1.15	16	PERKINS	44.9	76	5	21	26	603	0	3.79	1.76	16									
GUTHRIE	46.9	80	5	21	27	544	0	2.67	1.04	16	SHAWNEE	47.7	76	5	21	27	520	0	6.82	2.72	16									
KINGFISHER	45.1	75	5	20	27	597	0	3.78	2.57	16	SPENCER	48.5	81	5	20	27	495	2	4.70	2.57	6									
MARENA	45.3	80	5	21	26	592	0	2.43	.82	16	STILLWATER	44.6	78	5	20	27	612	0	2.90	1.05	16									
MARSHALL	44.7	77	5	20	27	609	0	1.09	.61	29	WASHINGTON	47.9	77	5	23	27	512	0	*****	.83	29									
EAST CENTRAL																														
CALVIN	48.3	78	5	23	27	500	0	6.07	3.00	16	SALLISAW	47.0	78	5	25	26	542	3	9.49	2.99	24									
COOKSON	45.5	76	5	19	27	587	1	9.97	2.34	6	STIGLER	47.5	78	6	23	27	527	1	8.83	2.50	24									
EUFALA	48.1	78	6	25	26	509	3	8.56	2.49	16	STUART	48.3	77	5	24	26	502	1	6.73	1.76	23									
HASKELL	46.5	76	5	22	27	554	0	*****	.78	24	TAHLEQUAH	46.1	78	5	21	26	567	0	4.91	1.09	16									
MCALESTER	48.4	77	5	24	27	500	2	9.70	1.97	6	WEBBERS FALLS	47.3	80	5	25	26	535	4	9.57	2.47	24									
OKMULGEE	45.5	77	5	21	27	584	0	4.03	.92	16	WESTVILLE	45.7	76	5	21	26	580	0	8.98	2.05	24									
SOUTHWEST																														
ALTUS	48.2	79	5	23	25	503	0	*****	.59	29	HOLLIS	47.5	80	5	20	27	525	0	2.50	.85	29									
APACHE	47.7	76	5	21	27	518	0	1.31	.48	6	MANGUM	47.0	79	5	22	25	541	0	1.79	.57	29									
FORT COBB	48.0	78	5	24	25	511	0	.71	.35	16	MEDICINE PARK	49.4	78	5	23	25	469	0	1.92	.58	16									
GRANDFIELD	49.8	80	5	23	26	459	1	2.67	.82	29	TIPTON	49.7	79	5	21	27	460	1	1.50	.42	29									
HINTON	44.9	76	5	20	27	603	0	1.73	1.21	16	WALTERS	49.8	79	5	25	25	455	1	3.33	.72	29									
HOBART	46.5	75	4	22	25	556	0	1.86	.57	16	SOUTH CENTRAL																			
ADA	48.5	78	5	24	27	493	0	4.68	1.14	24	LANE	50.0	78	5	26	27	450	0	10.65	3.24	6									
ARDMORE	50.8	79	5	25	27	426	1	6.50	1.77	16	MADILL	52.0	79	5	28	26	396	5	5.87	1.19	16									
BURNEYVILLE	50.4	77	5	23	26	439	0	5.02	1.23	24	PAULS VALLEY	50.1	81	5	25	27	446	0	4.85	1.40	16									
BYARS	47.6	75	5	21	27	522	0	3.43	.86	29	RINGLING	50.0	78	5	25	27	448	0	4.59	1.13	24									
CENTRAHOMA	48.3	78	5	23	28	501	0	6.60	1.06	29	SULPHUR	48.8	77	5	26	26	485	0	5.45	2.07	16									
DURANT	51.7	78	5	27	26	404	4	10.32	2.61	6	TISHOMINGO	48.5	77	5	25	27	494	0	*****	.93	6									
KETCHUM RANCH	48.5	77	5	24	25	495	0	5.08	1.14	6	WAURIKA	50.6	80	5	24	27	432	1	4.85	.98	29									
SOUTHEAST																														
ANTLERS	48.4	78	5	23	27	499	13.64	4.45	6	IDABEL	51.0	75	6	28	26	421	3	11.07	3.62	24										
BROKEN BOW	51.2	77	6	27	28	416	3	11.10	3.60	24	MT HERMAN	49.5	74	6	26	28	470	3	10.92	4.19	24									
CLAYTON	49.3	75	5	24	27	473	2	12.76	3.73	24	TALIHINA	49.5	76	5	23	27	468	5	13.35	5.44	24									
CLOUDY	48.3	72	6	25	27	501	10.51</td																							



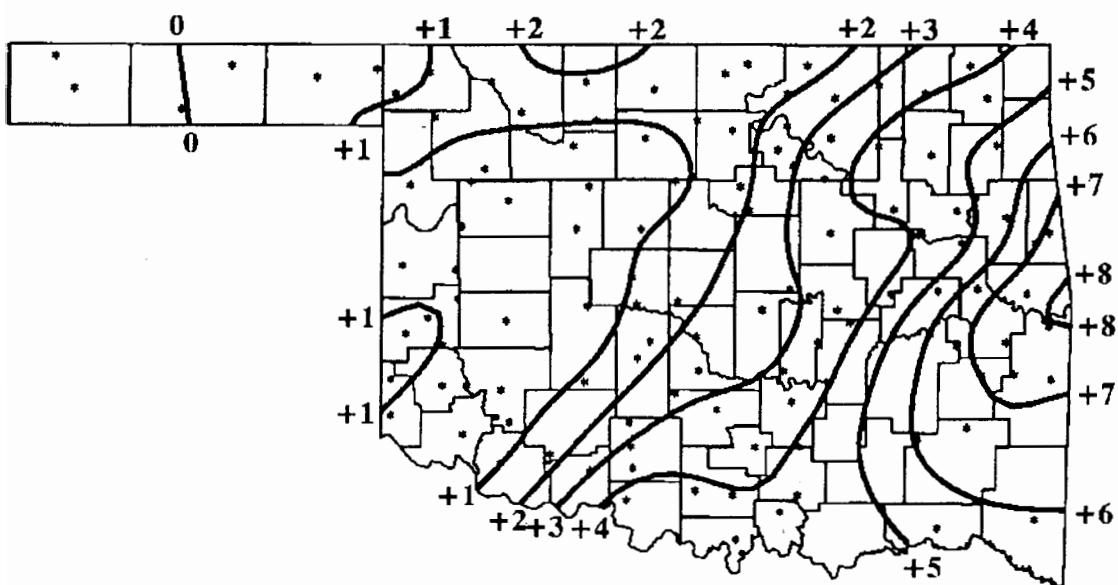
NOVEMBER 1996 AVERAGE MONTHLY TEMPERATURE
(DEGREES F)



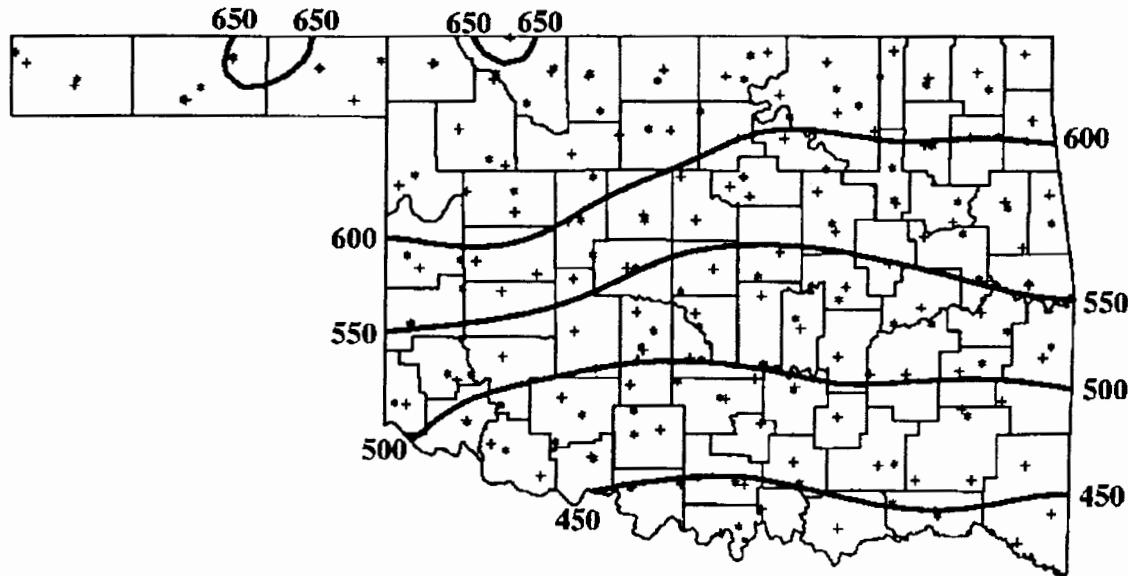
NOVEMBER 1996 DEVIATION FROM NORMAL TEMPERATURES
(DEGREES F)



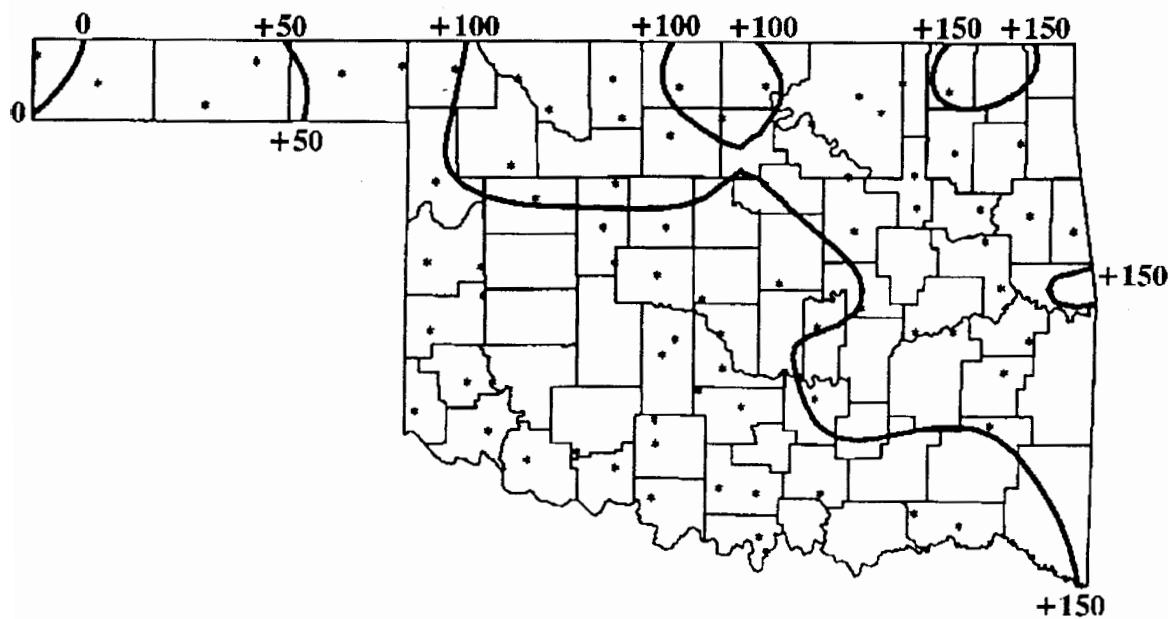
NOVEMBER 1996 TOTAL PRECIPITATION
(INCHES)



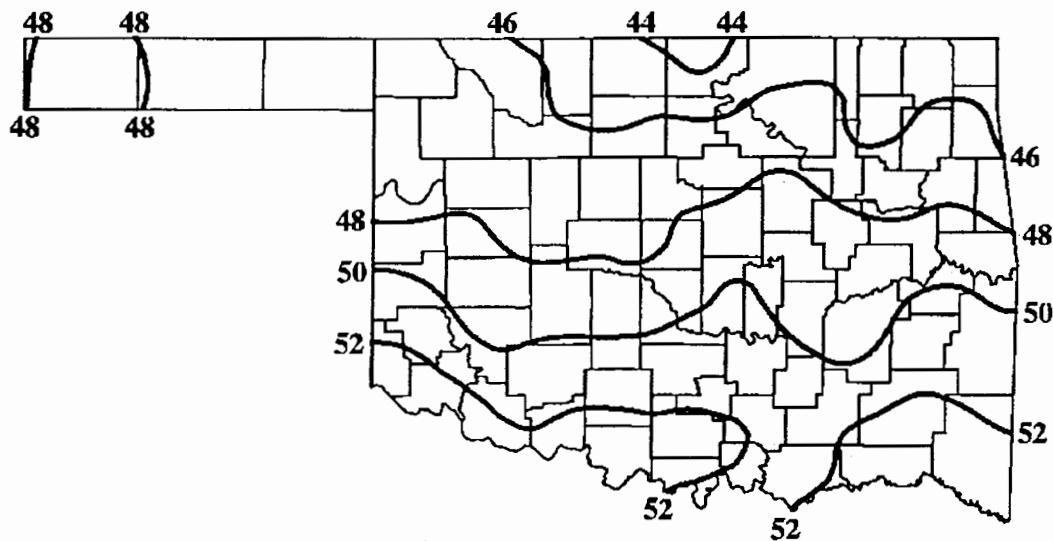
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(INCHES)



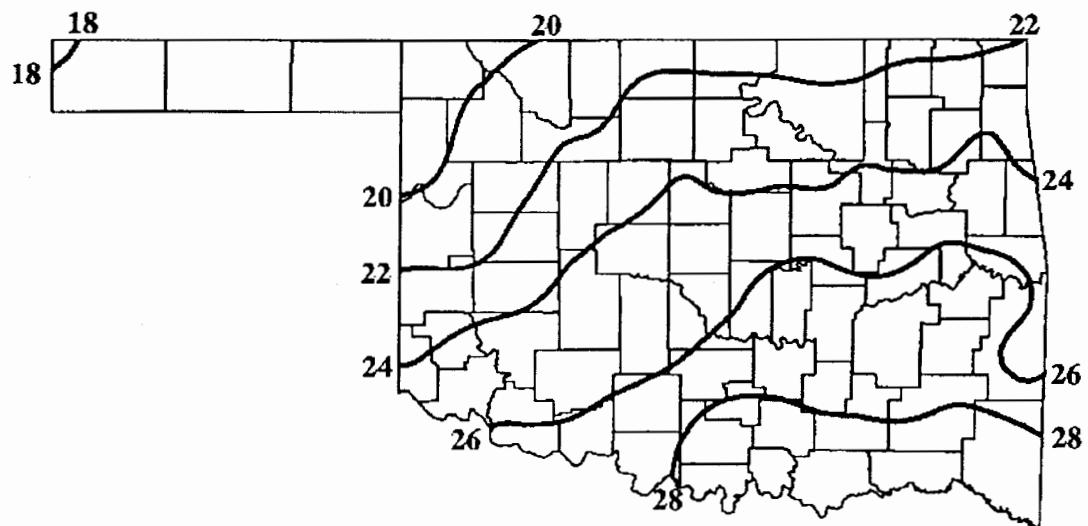
NOVEMBER 1996 HEATING DEGREE DAYS



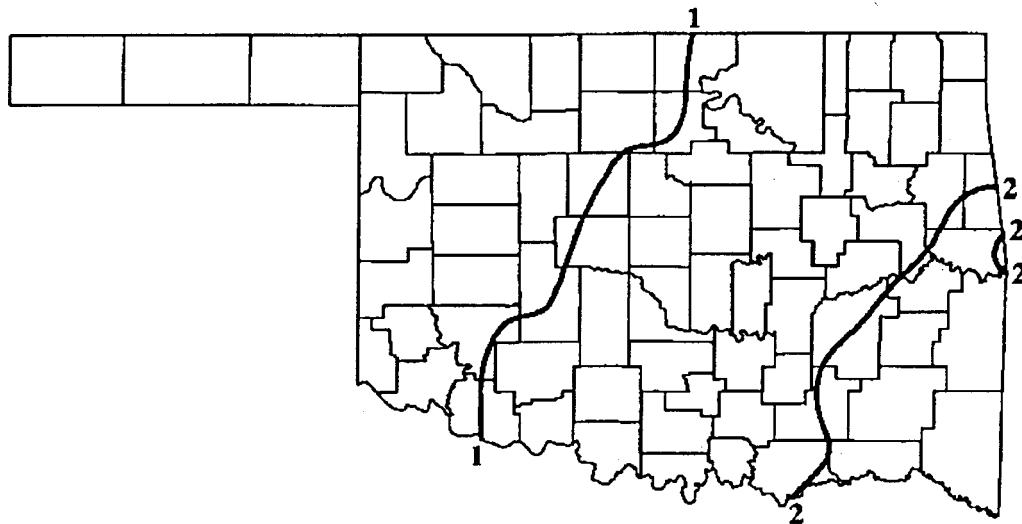
NOVEMBER 1996 DEVIATION FROM NORMAL HEATING DEGREE DAYS



JANUARY NORMAL DAILY MAXIMUM TEMPERATURE (°F)



JANUARY NORMAL DAILY MINIMUM TEMPERATURE (°F)

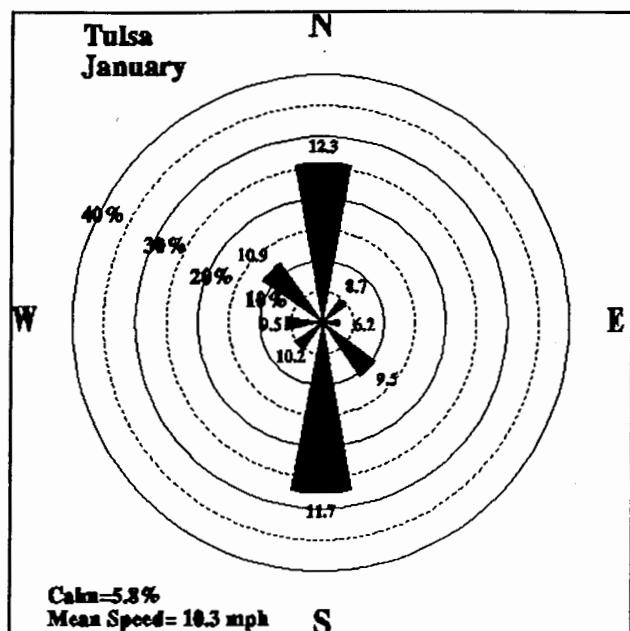
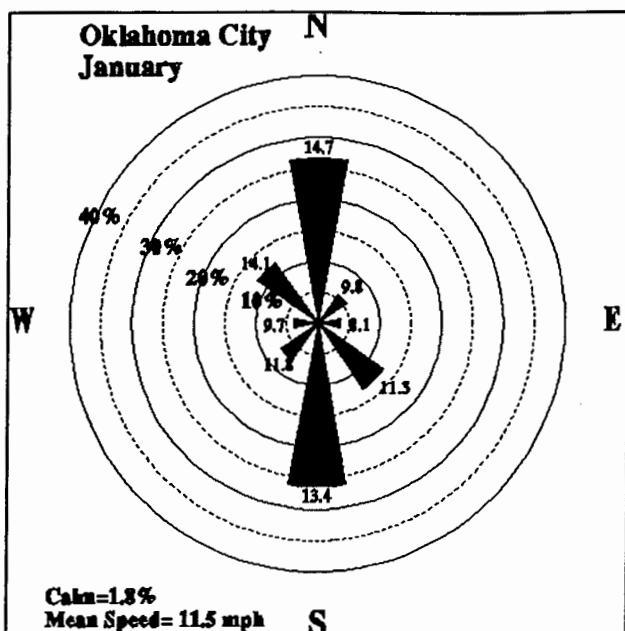


JANUARY NORMAL MONTHLY PRECIPITATION (inches)

OUTLOOK FOR JANUARY THROUGH MARCH 1997
BASED ON SEASONAL OUTLOOKS PROVIDED BY THE CLIMATE PREDICTION CENTER

TEMPERATURE: Near Normal Statewide

PRECIPITATION: Near Normal Statewide



January Wind Roses for Oklahoma City and Tulsa. The frequency (per cent) 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.

JANUARY 1997 SUNRISE AND SUNSET

OKLAHOMA CITY

DATE	SUNRISE	SUNSET	DAYLIGHT
97 1 1	7:38AM	5:30PM CST	9 hrs 53 mins
97 1 2	7:38AM	5:31PM CST	9 hrs 53 mins
97 1 3	7:38AM	5:31PM CST	9 hrs 54 mins
97 1 4	7:38AM	5:32PM CST	9 hrs 54 mins
97 1 5	7:38AM	5:33PM CST	9 hrs 55 mins
97 1 6	7:38AM	5:34PM CST	9 hrs 56 mins
97 1 7	7:38AM	5:35PM CST	9 hrs 56 mins
97 1 8	7:38AM	5:35PM CST	9 hrs 57 mins
97 1 9	7:38AM	5:36PM CST	9 hrs 58 mins
97 1 10	7:38AM	5:37PM CST	9 hrs 59 mins
97 1 11	7:38AM	5:38PM CST	10 hrs 0 mins
97 1 12	7:38AM	5:39PM CST	10 hrs 1 mins
97 1 13	7:38AM	5:40PM CST	10 hrs 2 mins
97 1 14	7:38AM	5:40PM CST	10 hrs 3 mins
97 1 15	7:38AM	5:41PM CST	10 hrs 4 mins
97 1 16	7:37AM	5:42PM CST	10 hrs 5 mins
97 1 17	7:37AM	5:43PM CST	10 hrs 6 mins
97 1 18	7:37AM	5:44PM CST	10 hrs 7 mins
97 1 19	7:37AM	5:45PM CST	10 hrs 8 mins
97 1 20	7:36AM	5:46PM CST	10 hrs 10 mins
97 1 21	7:36AM	5:47PM CST	10 hrs 11 mins
97 1 22	7:35AM	5:48PM CST	10 hrs 12 mins
97 1 23	7:35AM	5:49PM CST	10 hrs 14 mins
97 1 24	7:35AM	5:50PM CST	10 hrs 15 mins
97 1 25	7:34AM	5:51PM CST	10 hrs 17 mins
97 1 26	7:34AM	5:52PM CST	10 hrs 18 mins
97 1 27	7:33AM	5:53PM CST	10 hrs 20 mins
97 1 28	7:32AM	5:54PM CST	10 hrs 21 mins
97 1 29	7:32AM	5:55PM CST	10 hrs 23 mins
97 1 30	7:31AM	5:56PM CST	10 hrs 24 mins
97 1 31	7:31AM	5:57PM CST	10 hrs 26 mins

TULSA

DATE	SUNRISE	SUNSET	DAYLIGHT
96 1 1	7:33AM	5:21PM CST	9 hrs 49 mins
96 1 2	7:33AM	5:22PM CST	9 hrs 49 mins
96 1 3	7:33AM	5:23PM CST	9 hrs 50 mins
96 1 4	7:33AM	5:23PM CST	9 hrs 50 mins
96 1 5	7:33AM	5:24PM CST	9 hrs 51 mins
96 1 6	7:33AM	5:25PM CST	9 hrs 52 mins
96 1 7	7:33AM	5:26PM CST	9 hrs 52 mins
96 1 8	7:33AM	5:27PM CST	9 hrs 53 mins
96 1 9	7:33AM	5:27PM CST	9 hrs 54 mins
96 1 10	7:33AM	5:28PM CST	9 hrs 55 mins
96 1 11	7:33AM	5:29PM CST	9 hrs 56 mins
96 1 12	7:33AM	5:30PM CST	9 hrs 57 mins
96 1 13	7:33AM	5:31PM CST	9 hrs 58 mins
96 1 14	7:33AM	5:32PM CST	9 hrs 59 mins
96 1 15	7:33AM	5:33PM CST	10 hrs 0 mins
96 1 16	7:32AM	5:34PM CST	10 hrs 1 mins
96 1 17	7:32AM	5:35PM CST	10 hrs 2 mins
96 1 18	7:32AM	5:35PM CST	10 hrs 4 mins
96 1 19	7:31AM	5:36PM CST	10 hrs 5 mins
96 1 20	7:31AM	5:37PM CST	10 hrs 6 mins
96 1 21	7:31AM	5:38PM CST	10 hrs 8 mins
96 1 22	7:30AM	5:39PM CST	10 hrs 9 mins
96 1 23	7:30AM	5:40PM CST	10 hrs 10 mins
96 1 24	7:29AM	5:41PM CST	10 hrs 12 mins
96 1 25	7:29AM	5:42PM CST	10 hrs 13 mins
96 1 26	7:28AM	5:43PM CST	10 hrs 15 mins
96 1 27	7:28AM	5:44PM CST	10 hrs 17 mins
96 1 28	7:27AM	5:45PM CST	10 hrs 18 mins
96 1 29	7:27AM	5:46PM CST	10 hrs 20 mins
96 1 30	7:26AM	5:47PM CST	10 hrs 21 mins
96 1 31	7:25AM	5:48PM CST	10 hrs 23 mins

TULSA CLIMATE CALENDAR

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

OKLAHOMA CITY CLIMATE CALENDAR

JANUARY 1997

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	Normal 2 Actual	Normal 3 Actual	Normal 4 Actual	Normal 5 Actual	Normal 6 Actual	Normal 7 Actual				
46.5 max 28.5 min .02 ppt 29 cdd 0	47.1 max 27.4 min .07 ppt 28 cdd 0	45.8 max 25.0 min .06 ppt 30 cdd 0	43.8 max 25.2 min .02 ppt 31 cdd 0	46.8 max 26.5 min .05 ppt 28 cdd 0	47.9 max 25.1 min .02 ppt 29 cdd 0	44.9 max 24.2 min .01 ppt 30 cdd 0				
Highest Max 74-1910 Lowest Max 15-1979 Lowest Min 2-1929 Highest Min 61-1960 Greatest ppt .83-1982	Highest Max 70-1964 Lowest MAX 15-1911 Lowest Min -2-1911 Highest Min 65-1950 Greatest ppt 1.01-1951	Highest Max 71-1939 Lowest Max 10-1919 Lowest Min -9-1911 Highest Min 62-1922 Greatest ppt 1.02-1909	Highest Max 71-1939 Lowest Max 11-1959 Lowest Min -7-1947 Highest Min 60-1965 Greatest ppt 1.02-1902	Highest Max 72-1927 Lowest Max 18-1924 Lowest Min -2-1959 Highest Min 46-1945 Greatest ppt 1.02-1904	Highest Max 71-1927 Lowest Max 14-1909 Lowest Min -8-1912 Highest Min 62-1907 Greatest ppt 1.02-1904	Highest Max 68-1921 Lowest Max 15-1913 Lowest Min -8-1912 Highest Min 61-1907 Greatest ppt .98-1944				
Normal 8 Actual	Normal 9 Actual	Normal 10 Actual	Normal 11 Actual	Normal 12 Actual	Normal 13 Actual	Normal 14 Actual				
44.8 max 23.5 min .03 ppt 30 cdd 0	42.8 max 23.5 min .02 ppt 31 cdd 0	44.1 max 22.8 min .01 ppt 32 cdd 0	46.5 max 25.1 min .03 ppt 30 cdd 0	47.0 max 25.3 min .01 ppt 29 cdd 0	48.3 max 26.3 min .02 ppt 28 cdd 0	48.3 max 26.3 min .02 ppt 28 cdd 0				
Highest Max 71-1923 Lowest Max 11-1987 Lowest Min -4-1988 Highest Min 49-1949 Greatest ppt 1.45-1935	Highest Max 70-1962 Lowest Max 8-1977 Lowest Min -2-1977 Highest Min 45-1958 Greatest ppt .57-1937	Highest Max 75-1960 Lowest Max 13-1962 Lowest Min -3-1977 Highest Min 47-1928 Greatest ppt .58-1906	Highest Max 77-1911 Lowest Max 2-1918 Lowest Min -7-1918 Highest Min 50-1968 Greatest ppt 1.10-1915	Highest Max 73-1935 Lowest Max 6-1912 Lowest Min -7-1912 Highest Min 61-1960 Greatest ppt .78-1927	Highest Max 74-1904 Lowest Max 6-1905 Lowest Min -4-1980 Highest Min 52-1964 Greatest ppt 1.15-1926	Highest Max 74-1904 Lowest Max 12-1914 Lowest Min -11-1982 Highest Min .64-1904 Greatest ppt 2.75-1964	Highest Max 74-1904 Lowest Max 8-1986 Lowest Min -1-1982 Highest Min 53-1921 Greatest ppt 1.07-1988			
Normal 15 Actual	Normal 16 Actual	Normal 17 Actual	Normal 18 Actual	Normal 19 Actual	Normal 20 Actual	Normal 21 Actual				
49.2 max 25.5 min .02 ppt 28 cdd 0	46.5 max 26.5 min .04 ppt 29 cdd 0	47.6 max 26.1 min .04 ppt 28 cdd 0	48.4 max 26.7 min .10 ppt 29 cdd 0	44.1 max 25.1 min .09 ppt 30 cdd 0	45.9 max 25.0 min .02 ppt 29 cdd 0	45.6 max 26.0 min .08 ppt 29 cdd 0				
Highest Max 77-1914 Lowest Max 14-1990 Lowest Min -2-1905 Highest Min 53-1969 Greatest ppt 1.07-1992	Highest Max 76-1984 Lowest Max 11-1990 Lowest Min -8-1980 Highest Min 57-1980 Greatest ppt .78-1980	Highest Max 78-1964 Lowest Max 8-1980 Lowest Min -9-1960 Highest Min 52-1964 Greatest ppt 1.15-1986	Highest Max 74-1961 Lowest Max 6-1982 Lowest Min -4-1980 Highest Min 48-1965 Greatest ppt 1.07-1988	Highest Max 75-1914 Lowest Max 12-1982 Lowest Min -11-1982 Highest Min .64-1904 Greatest ppt 2.75-1964	Highest Max 76-1914 Lowest Max 18-1984 Lowest Min -12-1984 Highest Min 53-1921 Greatest ppt 1.08-1904	Highest Max 80-1986 Lowest Max 18-1986 Lowest Min -9-1986 Highest Min 53-1921 Greatest ppt 1.08-1904	Highest Max 71-1987 Lowest Max 12-1984 Lowest Min -9-1980 Highest Min 58-1921 Greatest ppt 1.40-1932			
Normal 22 Actual	Normal 23 Actual	Normal 24 Actual	Normal 25 Actual	Normal 26 Actual	Normal 27 Actual	Normal 28 Actual				
47.3 max 25.3 min .03 ppt 29 cdd 0	46.8 max 25.1 min .02 ppt 29 cdd 0	50.1 max 27.2 min .02 ppt 28 cdd 0	49.2 max 27.9 min .08 ppt 28 cdd 0	46.4 max 26.5 min .03 ppt 29 cdd 0	45.8 max 25.3 min .03 ppt 29 cdd 0	45.6 max 26.0 min .08 ppt 29 cdd 0				
Highest Max 79-1967 Lowest Max 15-1982 Lowest Min -8-1980 Highest Min 50-1921 Greatest ppt .98-1920	Highest Max 75-1959 Lowest Max 13-1963 Lowest Min -1-1963 Highest Min 51-1967 Greatest ppt 1.16-1981	Highest Max 81-1960 Lowest Max 8-1984 Lowest Min -8-1984 Highest Min 51-1964 Greatest ppt .97-1949	Highest Max 81-1960 Lowest Max 15-1965 Lowest Min -12-1967 Highest Min 58-1944 Greatest ppt 1.26-1946	Highest Max 77-1952 Lowest Max 15-1965 Lowest Min -12-1967 Highest Min 58-1944 Greatest ppt 1.25-1916	Highest Max 72-1953 Lowest Max 12-1967 Lowest Min -12-1967 Highest Min 58-1921 Greatest ppt 1.26-1916	Highest Max 72-1914 Lowest Max 17-1981 Lowest Min -3-1981 Highest Min 58-1921 Greatest ppt 1.44-1983	Highest Max 78-1953 Lowest Max 21-1949 Lowest Min -3-1948 Highest Min 60-1968 Greatest ppt .44-1983			
Normal 29 Actual	Normal 30 Actual	Normal 31 Actual	JANUARY AVERAGES							
48.1 max 26.2 min .06 ppt 28 cdd 0	48.9 max 26.2 min .07 ppt 28 cdd 0	48.4 max 27.8 min .05 ppt 27 cdd 0	TEMPERATURE							
Highest Max 76-1911 Lowest Max 13-1984 Lowest Min -1-1985 Highest Min 61-1982 Greatest ppt 1.84-1982	Highest Max 74-1917 Lowest Max 17-1949 Lowest Min -1-1975 Highest Min 65-1986 Greatest ppt 1.88-1982	Highest Max 83-1911 Lowest Max 8-1978 Lowest Min -1-1978 Highest Min 62-1911 Greatest ppt 1.88-1982	PRECIPITATION							
HEATING DEGREE DAYS : 889										
COOLING DEGREE DAYS : 0										