

# OKLAHOMA MONTHLY SUMMARY SEPTEMBER 1995

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## MONTHLY SUMMARY FOR SEPTEMBER 1995

Oklahoma weather began its transition into autumn during September. Temperatures were in the 100s in many areas during the first week and snow flurries and frost were reported from some of the same locations later in the month. Despite the hot beginning, the mean temperature of 71.1 degrees for the month was 1.9 degrees less than normal, making this the 19th coolest September in 104 years of weather records. Precipitation was plentiful over most of the state, averaging 5.06 inches (1.12 inches above normal), the 20th greatest September precipitation since 1892.

Below normal precipitation totals were reported mostly in north central and northeastern Oklahoma, while extensive and frequent rainfall in southwestern and south central Oklahoma delayed the maturity of the cotton crop, which was already behind because excessive moisture in the spring had delayed planting. Year-to-date precipitation, averaged statewide totals 35.18 inches, 8.09 inches greater than normal and the state's 7th largest January through September precipitation. The average temperature through the first 9 months of 1995 (63.4 degrees) is two-tenths of a degree below normal, ranking this as the 44th coolest year in history.

Daytime high temperatures in the 90s and 100s were reported statewide through the first six days of the month. The northwest was the hottest area of the state with Oklahoma Mesonet sites at Goodwell (111 degrees) and Hooker (110 degrees), both in Texas County, reporting the highest temperatures on the 5th. National Weather Service Cooperative observers at Hooker (108), Beaver (107) and Gate (107), the latter two in Beaver County, all established new station-record (since 1948) high temperatures for September.

Thunderstorms on the 6th presaged the passing of a vigorous cold front that lowered the daytime high temperatures by anywhere from 20 to 30 degrees. Two to four inch rains were commonplace as the Mesonet station at Burbank (Osage County) and the NWS observer at Pawnee (Pawnee County) led the way with 4.42 and 4.32 inches, respectively. Kenton (Cimarron) reported a daily high temperatures of 94 degrees on the 6th, but could only manage to reach 63 degrees on the 7th.

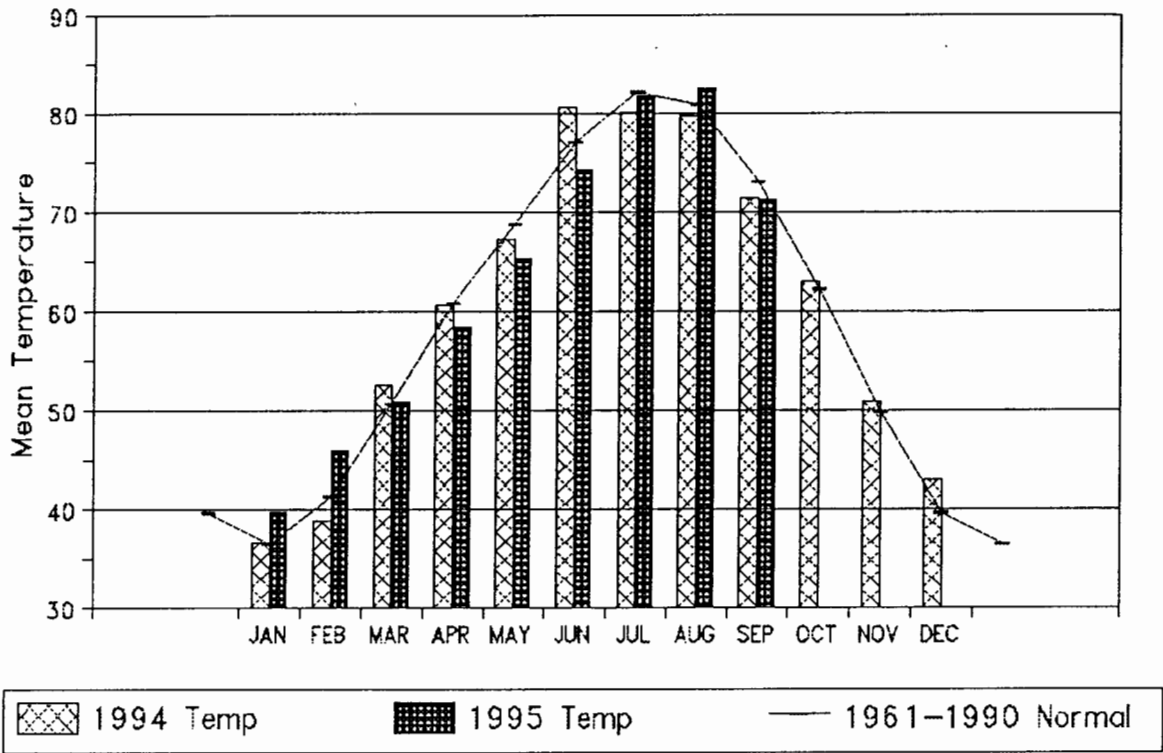
A series of Upper-air disturbances produced thunderstorms and locally heavy rains from the 10th through the 20th. Daisy (Atoka) reported 4.30 inches of rain on the 16th accompanied by more than four inches of rain at Hennepin and Elmore City (both Garvin).

A strong cold front moved into northwestern Oklahoma on the 20th and moved through the state, indicating that summer was indeed ending. National Weather Service observers at Gate (Beaver), Laverne (Harper) and Range (Texas) all reported light snow, although none reported more than a trace. The first sub-freezing temperatures of the season were reported at Oologah Dam (Rogers), Freedom (Woods) and Jefferson (Grant) on the 22nd. The cool air was extensive enough to keep all temperatures in the state below 80 degrees on the 24th.

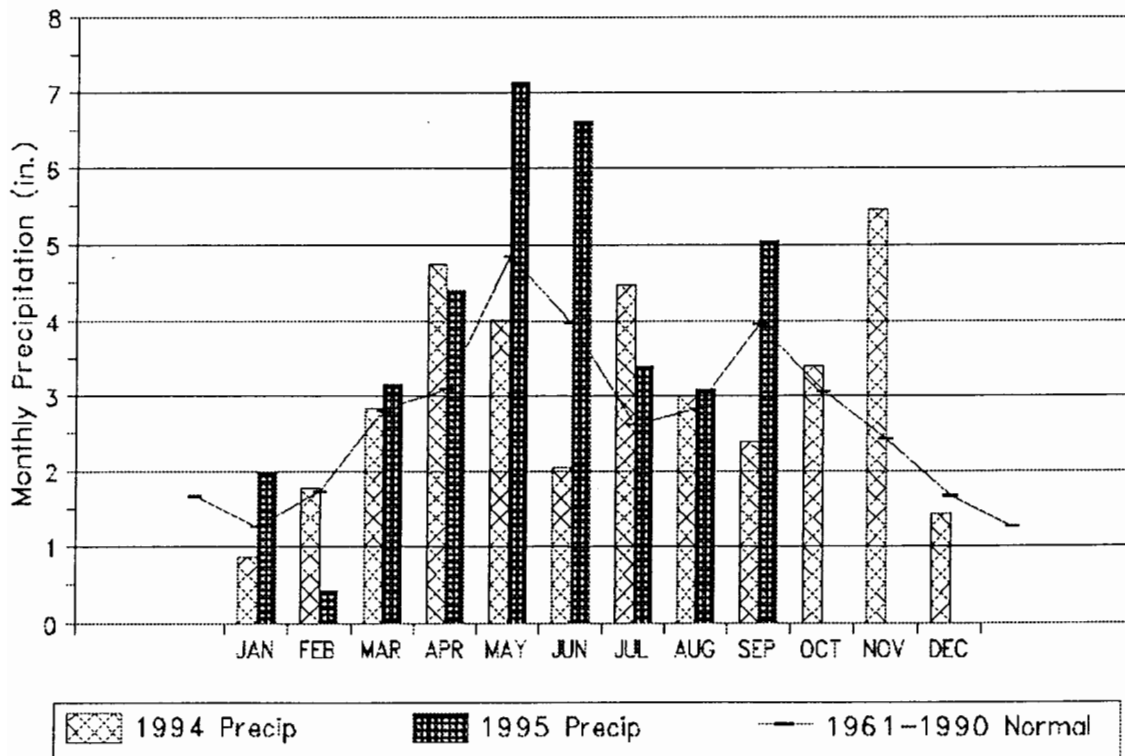
The warm air had not gone far and summer-like weather returned to western portions of the state by the 28th when Hollis (Harmon) reached 92 degrees and several other locations reported high temperatures in the low 90s. Fair skies, warm days and cool nights, typical early autumn weather in Oklahoma, dominated the state through the end of the month.

Howard L. Johnson

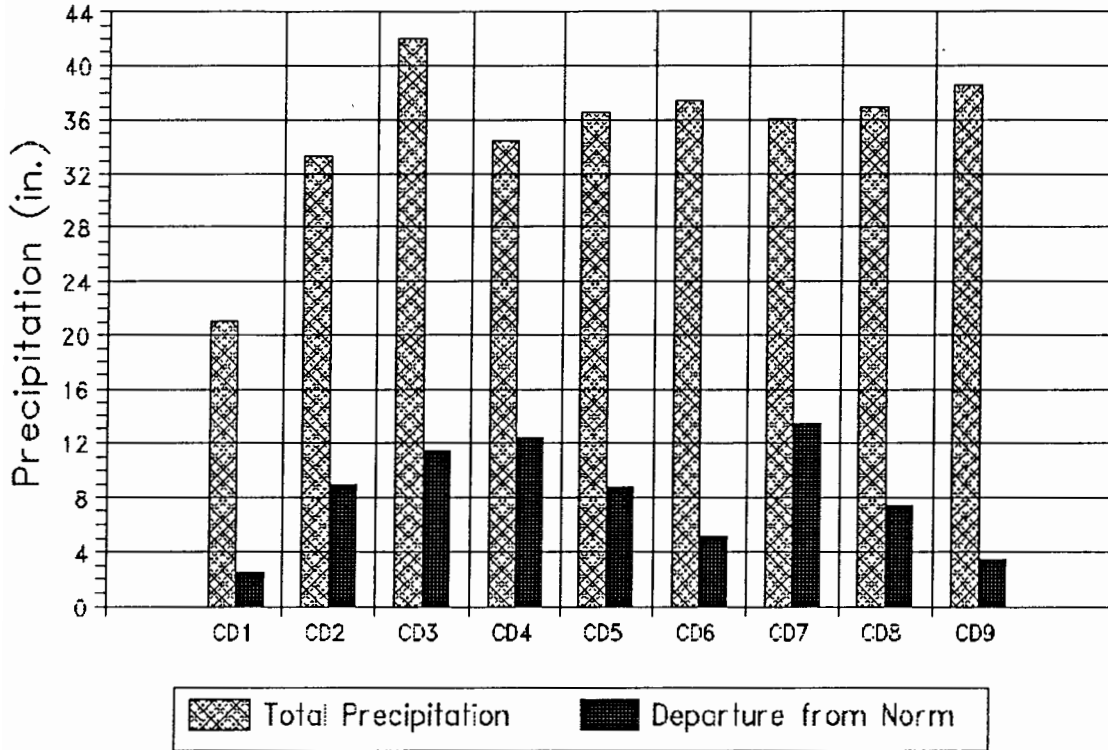
## 1994 and 1995 STATEWIDE TEMPERATURES Monthly Averages



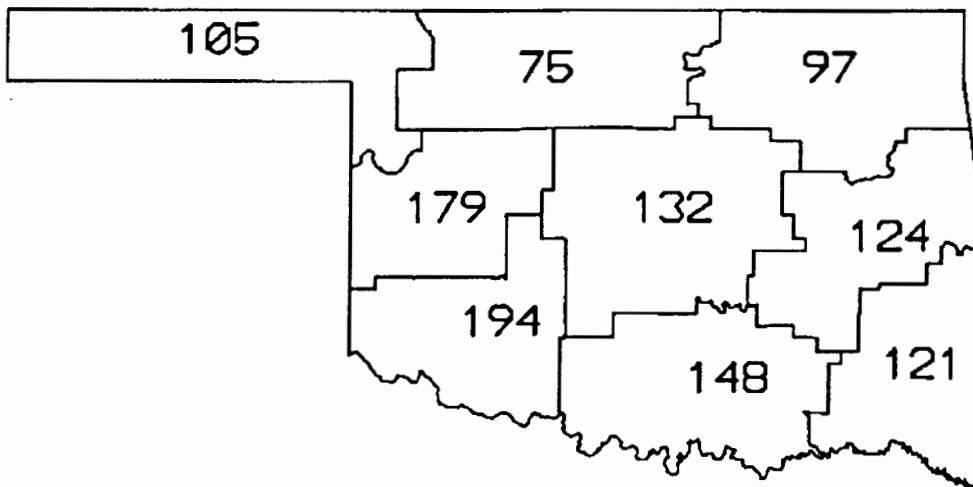
## 1994 and 1995 STATEWIDE PRECIPITATION Monthly Totals



### CD Averaged Precipitation January through September 1995



### CD PERCENT OF NORMAL PRECIPITATION



SEPTEMBER 1995

EXTREME VALUES OF TEMPERATURE AND PRECIPITATION IN EACH CLIMATE DIVISION  
SEPTEMBER 1995

CD	MAX			MIN			24-HOUR			MONTHLY	
	TEMP	DATE	LOCATION	TEMP	DATE	LOCATION	PRECIP	DATE	LOCATION	PRECIP	LOCATION
1	109	6	GOODWELL	32	21	BOISE CITY	1.74	19	RANGE	4.52	ARNETT
	109	5	GUYMON	32	22	GAGE					
2	106	4	FREEDOM	30	22	FREEDOM	2.15	16	RED ROCK	4.54	RED ROCK
3	102	3	BARTLESVILLE	28	25	HULAH DAM	4.32	7	PAWNEE	8.46	PAWNEE
	102	3	JAY TOWER								
	102	3	MANNFORD								
4	103	3	ERICK	34	23	REYDON	3.73	16	WEATHERFORD	8.74	THOMAS
	103	3	OKEENE								
	103	3	TALOGA								
	103	4	WEATHERFORD								
5	105	3	GUTHRIE	33	23	BRISTOW	3.55	7	WEWOKA	8.93	KONAWA
	105	3	HENNESSEY								
6	102	3	EUFULA	32	23	STILWELL	3.05	16	DUSTIN	9.18	ASHLAND
	102	3	HANNA								
	102	3	HOLDENVILLE								
	102	2	MCCURTAIN								
	102	3	MCCURTAIN								
7	106	6	ALTUS DAM	36	23	WICHITA MT	3.90	16	WILLOW	9.45	WILLOW
			36	24	WICHITA MT						
			36	25	WICHITA MT						
8	105	4	MC GEE CREEK	36	23	CHICKASAW	4.30	16	DAISY	11.21	HENNEPIN
	105	4	TISHOMINGO								
9	105	2	PINE CREEK	35	23	SMITHVILLE	2.72	20	IDABEL	7.21	BOSWELL
				35	23	WILBURTON					

TABLE OF 1994/1995 COMPARISONS

Station	SEPTEMBER Temperature (°F)		SEPTEMBER Precipitation (in.)	
	1994	1995	1994	1995
Arnett	69.2	67.2	1.42	4.52
Mutual	70.2	69.2	1.63	2.70
Tulsa	71.2	70.5	3.60	4.94
Elk City	72.8	71.3	2.15	5.63
Oklahoma City	70.7	70.9	1.65	6.05
McAlester	73.0	72.2	0.98	5.44
Altus Irr Sta	74.2	73.0	1.55	6.23
Durant	72.8	73.4	2.64	8.79
Hugo	73.8	73.6	2.82	6.07

Variable	EXTREMES			
	Station	Division	Observation	Date
Minimum temperature (°F)	Hulah Dam	3	28	25
Maximum temperature (°F)	Goodwell	1	109	6
	Guymon	1	109	5
Maximum 24-hour precipitation	Pawnee	3	4.32"	7

SEPTEMBER 1995 SUMMARY FOR NORTHWEST DIVISION (CD1)

NAME	ID	CD	DEV					HEAT		DEV		COOL		DEV		TOT	NUM	FROM	MAX	24-HR	DAY
			MEAN	NUM	FROM	MAX	MIN	DEG	FROM	DEG	FROM	DEG	FROM	DEG	FROM						
ARNETT	332	1	67.2	30	-2.8	102.	4	34.	23	119.5	94.5	185.5	10.5	4.521	30	1.99	1.13	19			
BEAVER	593	1	69.4	30	-.3	107.	6	33.	23	88.5	57.5	220.0	48.0	2.793	30	.97	.97	21			
BOISE CITY 2 E	908	1	68.7	30	.9	103.	6	32.	21	64.5	32.5	176.0	60.0	.724	30	-1.11	.34	24			
BUFFALO	1243	1	72.1	30	-.8	106.	2	34.	22	63.5	50.5	277.5	27.5	1.800	30	-1.28	.55	21			
FARGO	3070	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.382	30	.11	.72	19			
GAGE FAA APT	3407	1	68.7	30	-2.9	104.	3	32.	22	87.5	69.5	198.5	-17.5	2.074	30	.08	.66	18			
GATE	3489	1	72.0	30	.8	107.	6	42.	22	57.0	40.0	266.5	63.5	2.333	30	.24	1.07	21			
GOODWELL RES ST	3628	1	68.5	30	.4	109.	6	34.	23	87.5	48.5	192.5	60.5	2.444	30	.76	1.70	20			
GUYMON	3835	1	68.4	18	*****	109.	5	34.	23	61.5	*****	123.5	*****	1.031	25	*****	.48	19			
HOOKER	4298	1	68.7	30	-.8	108.	6	34.	23	95.5	61.5	207.0	38.0	1.382	29	*****	.40	19			
KENTON	4766	1	67.1	27	*****	104.	5	33.	20	85.0	*****	142.0	*****	.723	29	*****	.36	24			
LAVERNE	5045	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.283	30	.26	.76	21			
RANGE	7412	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.215	30	*****	1.74	19			
REGNIER	7534	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.412	30	-1.29	.23	24			
TURPIN 4 SSE	9017	1	62.7	18	*****	90.	18	33.	22	93.0	*****	51.0	*****	2.551	28	*****	1.12	19			

SEPTEMBER 1995 SUMMARY FOR NORTH CENTRAL DIVISION (CD2)

NAME	ID	CD	DEV					HEAT		DEV		COOL		DEV		TOT	NUM	FROM	MAX	24-HR	DAY
			MEAN	NUM	FROM	MAX	MIN	DEG	FROM	DEG	FROM	DEG	FROM	DEG	FROM						
ALVA	193	2	72.2	30	*****	104.	3	34.	22	63.0	*****	279.0	*****	1.560	30	*****	.60	21			
VANCE AFB	302	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.272	28	*****	.67	21			
BILLINGS	755	2	70.7	30	-1.7	103.	4	35.	22	73.5	53.5	245.5	3.5	3.763	29	*****	2.00	16			
BLACKWELL 2E	818	2	72.5	30	-.3	102.	3	37.	22	52.5	35.5	277.0	26.0	1.901	30	-2.18	.63	16			
BRAMAN	1075	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.210	30	*****	.29	12			
CEDARDALE	1620	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.700	30	*****	.78	29			
CHEROKEE	1724	2	71.6	30	-2.2	103.	3	35.	22	67.0	56.0	264.0	-11.0	1.670	30	-1.39	.40	29			
ENID	2912	2	71.8	30	-1.6	103.	3	37.	22	70.0	57.0	273.0	8.0	3.450	30	-.03	1.58	16			
FT SUPPLY DAM	3304	2	69.0	29	-1.4	103.	4	33.	22	99.5	77.5	216.5	32.5	2.033	30	-.28	.46	21			
FREEDOM	3358	2	68.7	30	-4.0	106.	4	30.	22	107.5	93.5	218.5	-26.5	2.390	30	-.20	.72	19			
GREAT SALT PLNS	3740	2	70.6	19	*****	102.	5	34.	22	41.5	*****	148.5	*****	1.460	27	*****	.48	16			
HELENA 1 SSE	4019	2	70.3	30	-1.2	103.	4	37.	23	87.5	68.5	247.5	33.5	2.513	30	-.72	1.11	16			
JEFFERSON	4573	2	71.5	30	-1.8	103.	3	31.	22	73.0	62.0	269.0	9.0	2.231	30	-1.46	.93	15			
LAMONT	5013	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.801	30	*****	.90	16			
MEDFORD	5768	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.930	30	*****	.79	11			
MORRISON	6065	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.820	30	*****	.95	16			
MUTUAL	6139	2	69.2	30	-2.0	105.	4	34.	23	100.5	81.5	226.5	21.5	2.700	30	.05	.78	29			
NEWKIRK	6278	2	70.7	30	-2.0	100.	3	34.	22	73.0	59.0	244.0	-1.0	2.401	30	-1.87	1.40	7			
ORIENTA	6751	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.000	30	-.06	1.15	16			
PERRY	7012	2	71.8	30	-1.8	102.	4	38.	22	73.0	59.0	277.5	5.5	3.280	30	-1.10	.82	16			
PONCA CITY FAA	7201	2	72.1	30	.0	105.	3	37.	22	62.5	39.5	275.5	39.5	3.893	30	-.45	1.31	7			
RED ROCK 1 NNE	7505	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.540	30	.31	2.15	16			
WAYNOKA	9404	2	70.7	30	-2.3	104.	3	33.	22	74.5	60.5	244.0	-7.0	2.440	30	-.13	.66	12			
WOODWARD	9760	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.182	30	-.16	.73	29			

**SEPTEMBER 1995 SUMMARY FOR NORTHEAST DIVISION (CD3)**

NAME	ID	CD	DEV				MIN		HEAT	DEV	COOL	DEV	DEV		TOT	NUM	DEV	
			MEAN	NUM	FROM	MAX	DAY	TEMP	DAY	DEG	FROM	DEG	FROM	FROM			NORM	FROM
BARNSDALL	535	3	70.0	30	-2.8	100.	3	32.	23	85.5	61.5	235.0	-23.0	5.901	30	.29	2.20	7
BARTLESVILLE 2W	548	3	70.5	30	-2.3	102.	3	29.	23	85.0	69.0	249.5	-5	2.582	30	-1.99	1.04	16
BIXBY	782	3	69.9	30	-1.6	100.	5	34.	24	84.0	63.0	232.0	16.0	2.921	30	-1.79	1.13	17
BURBANK	1256	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.513	30	1.85	3.45	7
CHELSEA 4 S	1717	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.360	30	*****	1.46	16
CLAREMORE	1828	3	68.9	29	-3.1	98.	4	33.	24	99.0	75.0	212.5	-21.5	4.210	30	-.24	2.17	7
CLEVELAND 5 WSW	1902	3	71.2	29	*****	100.	3	36.	22	67.0	*****	247.5	*****	7.090	30	*****	2.13	6
FORAKER	3250	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.950	30	.11	3.00	7
HOLLOW	4258	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.620	30	-3.41	.72	16
HOMINY	4289	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.253	30	1.13	2.04	20
HULAH DAM	4393	3	67.2	18	*****	100.	5	28.	25	70.5	*****	110.5	*****	2.072	18	*****	.84	19
JAY TOWER	4567	3	70.2	30	*****	102.	3	36.	22	87.0	*****	243.0	*****	4.210	30	*****	3.25	16
KANSAS 1 ESE	4672	3	68.6	26	*****	96.	2	36.	23	87.0	*****	181.5	*****	2.783	30	-2.66	1.15	16
KEYSTONE DAM	4812	3	69.2	29	-2.3	101.	4	34.	23	96.5	73.5	217.5	-.5	3.960	30	-.81	1.00	7
LENAPAH	5118	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.310	30	*****	.82	7
MANNFORD 6 NW	5522	3	71.2	30	-1.4	102.	3	35.	23	75.5	50.5	262.0	9.0	4.180	30	-.38	.84	16
MARAMEC	5540	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.901	30	3.21	2.30	19
MIAMI	5855	3	68.0	30	-3.0	97.	1	33.	22	97.5	66.5	187.5	-23.5	1.850	30	-3.22	.82	16
NOWATA	6485	3	69.5	30	-2.9	101.	2	35.	23	94.0	74.0	228.5	-13.5	4.641	30	-.71	1.77	16
OOLOGAH DAM	6729	3	69.2	30	*****	101.	4	29.	23	90.0	*****	215.0	*****	5.442	30	*****	2.23	7
PAWHUSKA	6935	3	70.2	30	-2.1	100.	3	34.	23	81.5	60.5	237.0	-3.0	8.122	30	3.19	3.48	7
PAWNEE	6940	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	8.460	30	3.42	4.32	7
PRYOR 6 N	7309	3	68.4	30	-2.8	97.	4	33.	24	100.0	71.0	202.0	-13.0	3.953	30	-.80	1.12	17
RALSTON	7390	3	71.4	30	-1.4	101.	3	34.	23	73.0	54.0	266.0	13.0	6.500	30	1.83	3.10	7
SKIATOOK	8258	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.510	24	*****	1.70	19
SPAVINAW	8380	3	72.1	30	-1.6	97.	2	38.	22	60.5	48.5	272.0	-1.0	3.282	30	-1.50	1.55	17
TULSA WSO APT	8992	3	70.5	30	-2.8	101.	3	37.	23	82.0	62.0	248.0	-21.0	4.942	30	.24	1.50	28
UPPER SPAVINAW	9101	3	68.7	27	*****	95.	5	35.	23	74.5	*****	175.0	*****	3.942	30	*****	2.10	17
VINITA 2 N	9203	3	74.1	24	*****	97.	3	33.	23	18.5	*****	237.5	*****	3.942	30	-1.18	2.07	16
WAGONER	9247	3	71.0	30	-2.4	98.	3	34.	23	69.0	55.0	249.0	-17.0	5.311	30	.75	2.05	29
WANN	9298	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.093	30	*****	.30	16
WYNONA	9792	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.164	30	*****	2.17	7

**SEPTEMBER 1995 SUMMARY FOR WEST CENTRAL DIVISION (CD4)**

NAME	ID	CD	DEV				MIN		HEAT	DEV	COOL	DEV	DEV		TOT	NUM	DEV	
			MEAN	NUM	FROM	MAX	DAY	TEMP	DAY	DEG	FROM	DEG	FROM	FROM			NORM	FROM
CANTON DAM	1445	4	69.3	30	-2.6	102.	4	38.	22	96.5	80.5	225.0	2.0	3.191	30	.01	1.04	21
CLINTON	1909	4	71.3	30	-2.6	102.	3	41.	23	64.0	51.0	254.5	-25.5	7.856	30	4.13	3.00	16
COLONY	2039	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	8.534	30	*****	2.27	18
CORDELL	2125	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.234	30	3.62	2.13	16
ELK CITY 1 E	2849	4	71.3	25	*****	101.	3	38.	22	54.0	*****	211.5	*****	5.633	30	2.35	2.03	20
ERICK 4 E	2944	4	69.8	30	-2.7	103.	3	40.	23	73.5	60.5	216.0	-19.0	5.651	30	2.43	1.70	16
GEARY	3497	4	68.9	29	-3.8	98.	3	40.	22	69.0	53.0	182.5	-64.5	6.880	30	3.08	2.32	16
HAMMON 3 SSW	3871	4	68.8	26	*****	100.	4	36.	23	79.5	*****	178.0	*****	6.240	29	*****	1.47	19
LEEDEY	5090	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.310	30	2.60	1.46	21
MACKIE 4 NNW	5463	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.390	30	*****	1.18	19
MORAVIA 2 NNE	6035	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.890	30	3.48	2.95	16
OKEENE	6629	4	70.8	30	-2.9	103.	3	36.	22	74.0	61.0	246.5	-27.5	3.360	30	-.33	.95	21
RETROP	7565	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	8.070	30	*****	3.45	16
REYDON	7579	4	66.1	29	-4.7	102.	6	34.	23	119.5	101.5	151.5	-40.5	5.870	30	2.84	1.52	11
SAYRE	7952	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.820	30	1.78	1.54	16
SWEETWATER 2 E	8652	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.764	30	*****	1.75	19
TALOGA	8708	4	70.0	26	*****	103.	3	35.	23	73.0	*****	203.0	*****	2.870	30	-.10	1.10	21
THOMAS	8815	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	8.740	30	*****	2.10	13
VICI	9172	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.160	30	.52	1.28	28
WATONGA	9364	4	70.7	30	-2.0	101.	3	38.	22	69.5	53.5	241.0	-6.0	6.042	30	2.67	1.43	19
WEATHERFORD	9422	4	70.9	29	-1.2	103.	4	39.	23	72.0	54.0	243.0	12.0	8.270	30	4.53	3.73	16

SEPTEMBER 1995 SUMMARY FOR CENTRAL DIVISION (CD5)

Table with 17 columns: NAME, ID, CD, MEAN TEMP, NUM OBS, DEV FROM NORM, MAX TEMP, MIN DAY, HEAT DEG DAY, DEV FROM NORM, COOL DEG DAY, DEV FROM NORM, TOT PPT, NUM OBS, DEV FROM NORM, MAX 24-HR, DAY. Lists weather data for stations like AMBER, ARCADIA, TINKER AFB, etc.

SEPTEMBER 1995 SUMMARY FOR EAST CENTRAL DIVISION (CD6)

Table with 17 columns: NAME, ID, CD, MEAN TEMP, NUM OBS, DEV FROM NORM, MAX TEMP, MIN DAY, HEAT DEG DAY, DEV FROM NORM, COOL DEG DAY, DEV FROM NORM, TOT PPT, NUM OBS, DEV FROM NORM, MAX 24-HR, DAY. Lists weather data for stations like ASHLAND, BEGGS, BOYNTON, etc.



SEPTEMBER 1995 SUMMARY FOR SOUTHWEST DIVISION (CD7)

NAME	ID	CD	DEV					HEAT				COOL				DEV			
			MEAN TEMP	NUM OBS	FROM NORM	MAX TEMP	MIN DAY	DEG DAY	FROM NORM	DEG DAY	FROM NORM	DEG DAY	TOT PPT	NUM OBS	FROM NORM	MAX TEMP	MIN DAY		
ALTUS IRR STA	179	7	73.0	30	-2.1	105.	5	43.	23	51.5	45.5	292.5	-16.5	6.230	30	2.79	1.87	16	
ALTUS DAM	184	7	71.4	30	-2.6	106.	6	41.	22	65.0	57.0	256.5	-21.5	9.290	30	5.86	2.30	16	
ANADARKO	224	7	70.8	28	*****	101.	4	39.	23	68.0	*****	229.0	*****	6.322	29	*****	3.00	16	
APACHE	260	7	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	5.770	30	2.02	1.39	16	
ALTUS AFB	447	7	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	5.345	28	*****	1.12	21	
CARNEGIE 2 ENE	1504	7	71.3	30	-2.6	104.	3	40.	24	71.5	59.5	259.5	-19.5	5.604	30	1.57	1.66	15	
CHATTANOOGA	1706	7	74.4	29	-.9	105.	6	42.	23	50.5	43.5	322.0	6.0	6.060	30	2.39	2.29	16	
DUNCAN 11 W	2668	7	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	6.163	30	*****	1.92	16	
FREDERICK	3353	7	71.9	29	-2.6	102.	7	43.	22	56.5	49.5	258.0	-34.0	8.120	30	4.54	2.32	18	
HEADRICK	3998	7	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	8.003	30	*****	2.07	12	
HOBART FAA APT	4204	7	71.5	30	-2.4	103.	5	42.	21	61.5	51.5	256.0	-21.0	7.521	30	3.97	2.78	15	
HOLLIS	4249	7	71.3	30	-3.3	104.	6	40.	23	57.5	51.5	245.0	-46.0	7.260	30	4.13	2.42	16	
LAWTON	5063	7	71.8	30	-2.2	104.	5	40.	23	69.5	61.5	274.0	-4.0	6.060	30	2.40	1.50	16	
FORT SILL	5068	7	72.2	30	*****	104.	3	41.	23	61.0	*****	276.5	*****	5.193	30	*****	.87	19	
LOOKEBA 2 ENE	5329	7	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	5.001	30	.65	1.54	19	
MANGUM RES STA	5509	7	72.8	30	-1.9	105.	6	42.	23	48.0	42.0	282.5	-14.5	8.850	30	5.47	2.71	16	
RANDLETT 9 E	7403	7	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	6.223	30	*****	2.35	17	
ROOSEVELT	7727	7	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	7.810	30	4.48	2.25	16	
SEDAN	8016	7	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	6.722	30	*****	1.67	16	
SNYDER	8299	7	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	5.284	30	1.71	1.10	16	
VINSON 3 WNW	9212	7	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	8.620	30	5.42	3.75	16	
WALTERS	9278	7	72.9	30	-2.6	105.	4	42.	23	55.0	46.0	293.5	-30.5	4.960	30	.71	1.43	19	
WICHITA MT WLR	9629	7	69.2	30	-3.3	102.	5	36.	25	96.5	83.5	221.0	-14.0	8.960	30	4.93	1.58	13	
WILLOW	9668	7	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	9.451	30	*****	3.90	16	

SEPTEMBER 1995 SUMMARY FOR SOUTH CENTRAL DIVISION (CD8)

NAME	ID	CD	DEV					HEAT				COOL				DEV			
			MEAN TEMP	NUM OBS	FROM NORM	MAX TEMP	MIN DAY	DEG DAY	FROM NORM	DEG DAY	FROM NORM	DEG DAY	TOT PPT	NUM OBS	FROM NORM	MAX TEMP	MIN DAY		
ADA	17	8	71.4	30	-2.4	100.	3	38.	23	64.5	56.5	258.0	-14.0	8.132	30	3.67	2.77	16	
ALLEN	147	8	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	10.300	30	*****	2.70	16	
ARDMORE	292	8	74.1	30	-2.1	101.	5	42.	23	43.0	38.0	316.0	-25.0	4.011	30	-.16	1.95	19	
ATOKA DAM	394	8	72.4	20	*****	102.	1	46.	22	27.0	*****	175.5	*****	7.060	20	*****	2.86	19	
BOKCHITO	917	8	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	6.300	30	*****	1.68	13	
CANEY	1437	8	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	6.140	30	*****	1.78	19	
CENTRAHOMA	1648	8	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	6.950	30	*****	2.10	16	
CHICKASAW NRA	1745	8	71.9	30	-1.7	103.	5	36.	23	56.5	42.5	262.5	-9.5	5.470	30	.83	1.58	16	
COLEMAN	2011	8	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	5.170	30	*****	3.10	19	
COMANCHE	2054	8	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	6.600	30	2.12	1.73	18	
DAISY 4 ENE	2354	8	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	9.762	30	4.20	4.30	16	
DUNCAN	2660	8	71.4	30	-2.8	101.	5	41.	23	76.0	67.0	268.5	-16.5	5.521	30	1.11	1.84	16	
DURANT USDA	2678	8	73.4	30	-.5	104.	4	40.	23	45.5	35.5	298.5	21.5	8.790	30	3.38	1.75	28	
ELMORE CITY	2872	8	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	9.710	30	*****	4.03	16	
GRADY	3688	8	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	4.430	30	*****	.90	17	
HEALDTON	4001	8	73.4	30	-1.3	103.	4	40.	23	47.0	39.0	300.0	1.0	4.080	30	-.46	1.04	19	
HENNEPIN	4052	8	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	11.210	30	*****	4.25	16	
KETCHUM RANCH	4780	8	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	6.540	30	*****	1.40	11	
KINGSTON	4865	8	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	6.531	30	1.75	3.89	12	
LEHIGH	5108	8	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	9.904	30	*****	3.60	19	
LINDSAY 2 W	5216	8	73.0	30	-.6	102.	3	38.	23	56.0	42.0	296.0	24.0	6.240	30	1.93	1.54	16	
LOCO 6 SE	5247	8	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	4.900	30	*****	1.52	19	
MADILL	5468	8	73.9	30	-1.5	102.	4	48.	26	46.0	38.0	313.0	-7.0	5.591	30	.77	2.00	19	
MARIETTA	5563	8	74.4	30	-1.0	103.	3	44.	23	33.5	25.5	316.5	-3.5	3.640	30	-.55	1.08	19	
MARLOW 1 WSW	5581	8	73.6	30	-.1	104.	3	40.	23	55.5	45.5	314.0	43.0	6.990	30	2.66	2.61	16	
MC GEE CREEK DAM	5713	8	73.3	30	*****	105.	4	41.	23	51.0	*****	299.5	*****	5.291	30	*****	2.20	12	
PAULS VALLEY	6926	8	73.3	30	-1.3	103.	1	37.	23	52.0	43.0	302.5	5.5	9.280	30	5.23	4.10	16	
PONTOTOC	7214	8	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	5.700	30	1.70	1.44	15	
TISHOMINGO NWLR	8884	8	73.9	26	*****	105.	4	39.	24	34.5	*****	265.0	*****	8.940	30	4.03	3.33	27	
TUSSY	9032	8	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	7.431	30	*****	2.13	16	
WAURIKA	9395	8	73.9	30	-1.8	104.	4	46.	23	47.0	47.0	314.0	-12.0	4.701	30	.79	1.34	16	
WAURIKA DAM	9399	8	74.4	25	*****	104.	5	43.	24	38.5	*****	272.5	*****	5.133	30	*****	1.72	19	

**SEPTEMBER 1995 SUMMARY FOR SOUTHEAST DIVISION (CD9)**

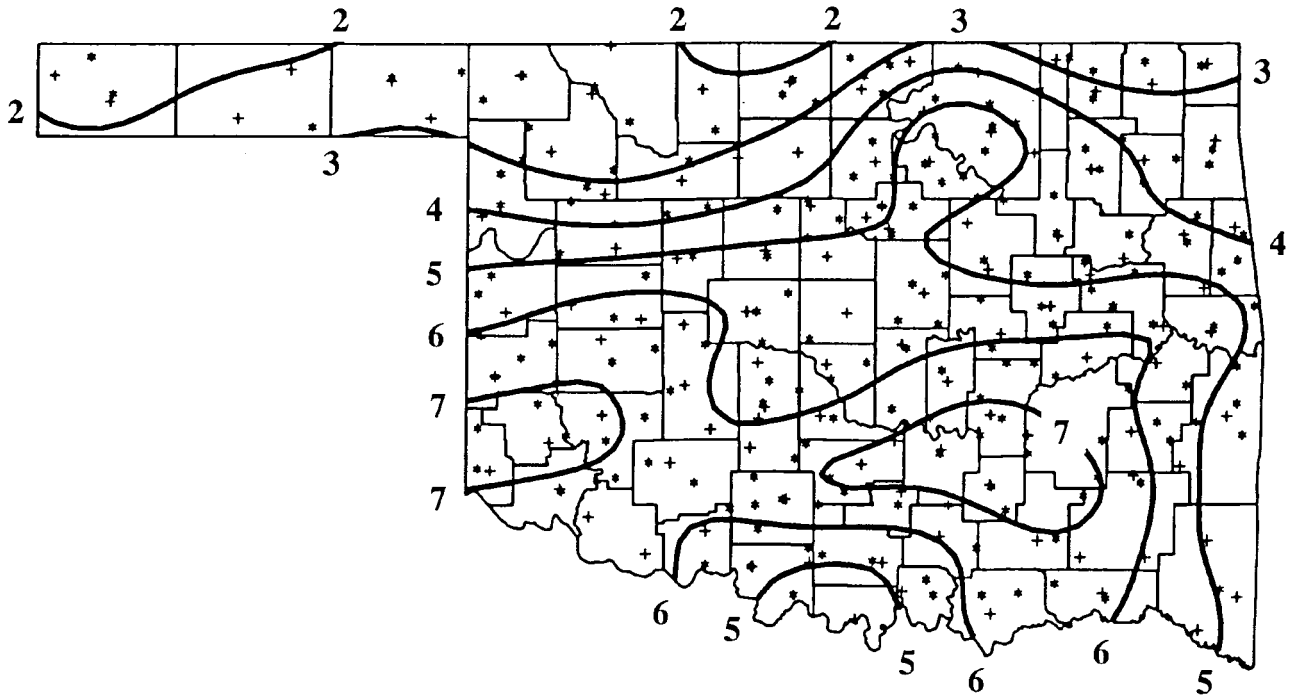
NAME	ID	CD	DEV					HEAT		DEV		COOL		DEV		TOT	NUM	DEV	MAX	24-HR	DAY
			MEAN	NUM	FROM	MAX	MIN	DEG	FROM	DEG	FROM	DEG	FROM	DEG	FROM						
ANTLERS	256	9	72.8	30	-1.3	102.	3	40.	24	43.0	33.0	277.0	-6.0	*****	0	*****	*****	0			
BATTIEST 1 SSW	567	9	69.3	30	*****	99.	4	36.	23	65.0	*****	194.5	*****	6.990	30	*****	2.25	13			
BEAR MT TWR	584	9	72.0	29	-2.4	104.	4	40.	23	47.0	39.0	250.0	-40.0	4.930	30	-.25	1.80	13			
BENGAL	670	9	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	6.021	30	*****	1.70	12			
BOSWELL 4 NNW	980	9	72.4	30	-2.1	104.	1	41.	23	51.5	42.5	273.0	-21.0	7.207	30	2.74	1.35	20			
BROKEN BOW 1 N	1162	9	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	6.310	30	1.77	2.38	18			
BROKEN BOW DAM	1168	9	73.5	30	-.2	104.	1	41.	25	29.0	21.0	283.5	14.5	4.952	30	.24	1.59	20			
CARNASAW TWR	1499	9	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	4.870	30	.28	1.52	13			
CARTER TWR	1544	9	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	3.910	30	-.88	2.46	13			
FANSHAW	3065	9	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	5.520	30	.84	1.05	12			
HEAVENER 1 SE	4008	9	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	3.120	30	-1.45	.95	29			
HEE MT TWR	4017	9	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	5.820	30	1.20	2.57	18			
HUGO	4384	9	73.6	30	-1.6	102.	1	42.	23	36.5	30.5	295.0	-17.0	6.073	30	1.54	1.66	20			
IDABEL	4451	9	72.1	30	-1.8	103.	2	42.	23	40.5	32.5	253.0	-22.0	6.291	30	2.10	2.72	20			
PINE CREEK DAM	7080	9	72.7	30	*****	105.	2	41.	24	43.0	*****	273.5	*****	3.371	29	*****	1.40	14			
POTEAU W W	7254	9	71.1	30	*****	101.	1	36.	23	48.0	*****	231.5	*****	4.633	30	*****	1.60	16			
SMITHVILLE 1 W	8285	9	70.2	30	-1.6	100.	3	35.	23	47.5	26.5	203.5	-21.5	5.252	30	.68	2.00	17			
SPIRO	8416	9	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	3.890	30	-.15	1.17	17			
TUSKAHOMA	9023	9	72.9	30	-1.3	103.	3	37.	23	46.0	33.0	283.5	-5.5	6.581	30	1.40	1.45	17			
VALLIANT 3 W	9118	9	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	6.482	30	1.51	1.81	17			
WILBURTON 9 ENE	9634	9	71.3	30	-1.6	101.	3	35.	23	59.0	44.0	248.5	-3.5	5.940	30	1.05	1.23	16			

**SEPTEMBER 1995 CLIMATE DIVISION SUMMARY**

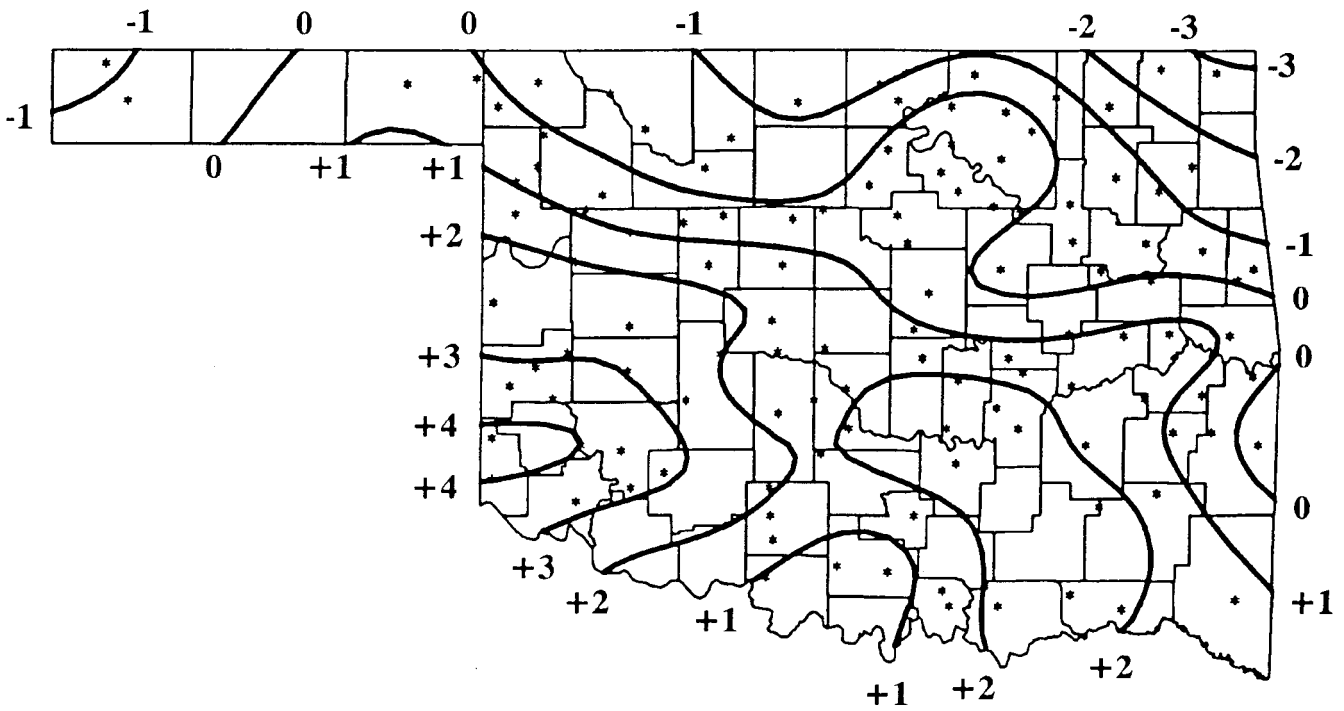
CLIMATE	DIV	MEAN	NUM	DEV					HEAT	DEV	COOL	DEV	TOT	NUM	DEV		24-HR	DAY
				FROM	MAX	MIN	FROM	MAX							FROM	MAX		
	1	69.4	8	-.3	109.0	5	32.0	22	82.9	54.3	215.4	45.1	2.18	11	.10	1.74	19	
	2	70.9	14	-1.6	106.0	4	30.0	22	76.9	60.7	254.1	13.5	2.55	21	-.87	2.15	16	
	3	70.1	17	-2.1	102.0	3	28.0	25	83.9	62.4	235.5	-2.4	4.65	30	-.22	4.32	7	
	4	69.7	8	-2.7	103.0	4	34.0	23	79.8	64.7	220.0	-19.2	5.93	20	2.64	3.73	16	
	5	71.6	16	-1.8	105.0	3	33.0	23	70.5	56.9	267.9	1.3	5.69	35	1.47	3.55	7	
	6	70.8	9	-2.4	102.0	3	32.0	23	64.8	49.1	239.4	-24.4	5.66	28	1.08	3.05	16	
	7	72.0	12	-2.3	106.0	6	36.0	25	62.0	53.4	269.8	-17.2	6.96	22	3.31	3.90	16	
	8	73.2	13	-1.4	105.0	4	36.0	23	51.8	43.1	296.8	.4	6.75	31	2.21	4.30	16	
	9	72.0	12	-1.9	105.0	2	35.0	23	46.3	35.4	255.5	-21.0	5.52	19	.85	2.72	20	

MESONET MONTHLY DATA SUMMARY FOR SEPTEMBER 1995

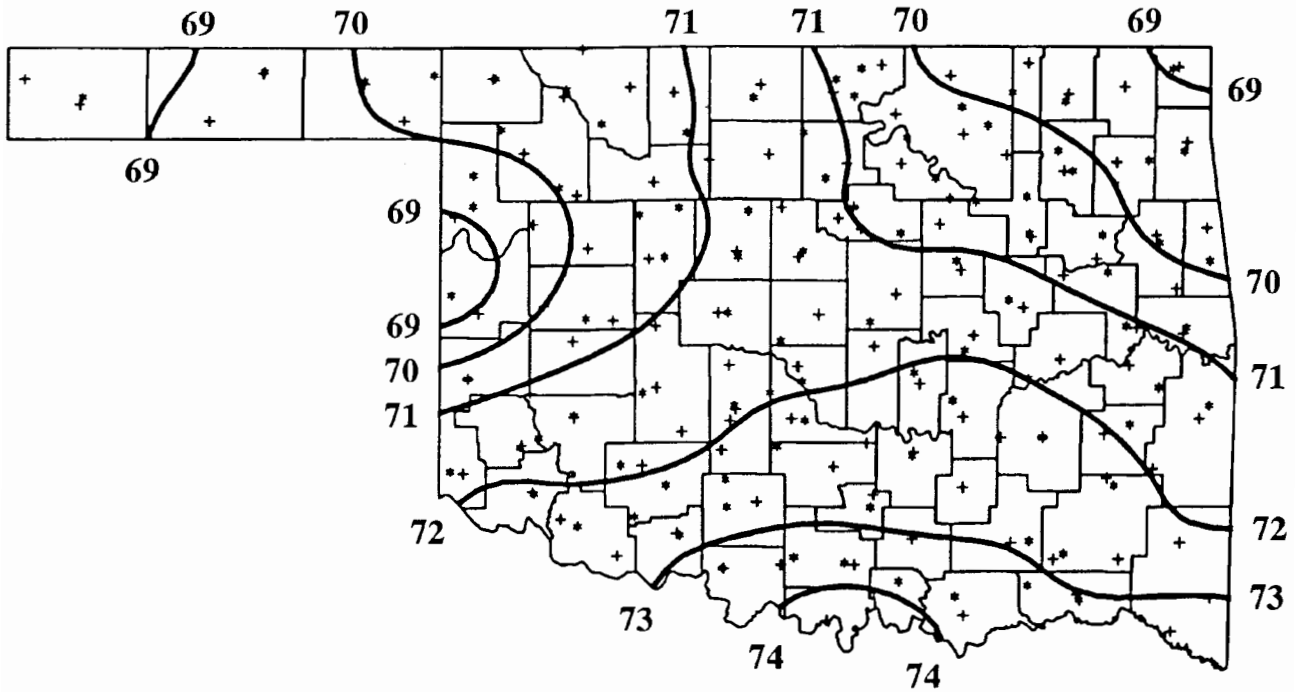
NAME	MEAN		MAX		MIN		TOT		MAX		NAME	MEAN		MAX		MIN		TOT		MAX	
	TEMP	TEMP	DAY	TEMP	DAY	HDD	CDD	PPT	24-HR	DAY		TEMP	TEMP	DAY	TEMP	DAY	HDD	CDD	PPT	24-HR	DAY
NORTHWEST																					
ARNETT	69.8	106	3	36	22	78	221	4.47	.98	18	GOODWELL	69.6	111	5	36	21	77	214	3.86	1.88	20
BEAVER	70.2	109	5	34	22	77	233	2.99	1.07	18	HOOKEE	68.7	110	5	33	22	94	206	1.46	.44	18
BOISE CITY	68.8	107	5	34	21	78	194	.86	.32	24	KENTON	67.3	103	5	33	21	89	160	2.24	1.54	18
BUFFALO	71.5	107	2	35	22	70	265	2.31	.54	21	SLAPOUT	70.4	108	5	35	22	78	241	3.58	.77	18
NORTH CENTRAL																					
ALVA	70.8	104	2	35	22	70	243	*****	*****	0	MAY RANCH	71.1	106	2	33	22	74	256	2.64	.63	21
BLACKWELL	71.5	104	3	37	22	68	263	3.04	.86	16	MEDFORD	71.8	105	2	35	22	66	269	1.75	.64	11
BRECKENRIDGE	72.1	106	3	39	22	64	278	4.11	1.37	15	NEWKIRK	68.4	102	3	32	22	90	191	3.81	2.63	7
CHEROKEE	70.6	104	2	35	22	71	238	1.62	.44	11	RED ROCK	70.8	105	3	37	22	79	253	3.02	1.07	15
FAIRVIEW	72.2	106	3	36	22	67	284	2.37	.80	21	SEILING	71.3	109	3	36	22	65	255	3.35	.85	21
FREEDOM	72.1	109	3	34	22	70	283	2.77	.76	18	WOODWARD	71.2	106	3	36	22	72	258	1.66	.70	18
LANOMA	71.2	106	3	38	22	72	257	3.35	.83	11											
NORTHEAST																					
BIXBY	71.8	102	2	36	23	72	275	3.34	.66	15	NOWATA	70.0	102	3	32	23	86	235	3.63	1.45	16
BURBANK	68.7	103	3	34	22	93	205	8.27	4.42	7	PAWNEE	71.4	102	3	37	22	73	265	6.52	3.48	7
CLAREMORE	71.3	104	2	35	23	74	263	5.06	3.10	7	PRYOR	70.8	101	2	34	23	77	253	3.05	1.15	16
COPAN	69.3	102	3	33	22	90	220	1.41	.31	6	SKIATOOK	71.3	102	3	39	22	74	263	4.37	1.22	7
FORAKER	68.2	101	3	32	22	97	194	4.58	1.89	6	TULLAHASSEE	70.2	98	2	36	23	74	231	4.65	.90	30
JAY	67.9	96	2	32	23	102	191	4.21	2.81	16	VINITA	68.8	99	3	33	23	98	211	2.53	1.03	16
MIAMI	67.9	95	2	32	23	101	188	2.64	.70	30	WYNONA	71.3	103	2	36	23	76	266	4.89	1.30	7
WEST CENTRAL																					
BESSIE	71.8	104	3	40	22	63	266	7.83	2.92	15	PUTNAM	70.4	105	3	37	22	69	230	2.82	1.05	21
BUTLER	70.1	103	3	38	22	66	220	5.59	1.43	21	RETROP	72.0	106	5	43	21	57	266	4.46	3.00	15
CAMARGO	69.2	108	3	37	22	80	207	*****	*****	0	WATONGA	71.3	103	3	38	22	68	258	4.21	1.09	21
CHEYENNE	68.6	101	3	36	22	86	194	7.40	2.05	12	WEATHERFORD	70.9	103	3	40	22	70	247	6.83	3.03	15
ERICK	70.8	105	3	41	23	61	234	5.43	1.61	15											
CENTRAL																					
ACME	71.8	101	3	39	23	67	269	5.51	1.17	19	MINCO	72.1	104	3	40	22	68	279	4.94	1.44	15
BOWLEGS	72.7	105	3	37	23	58	289	7.31	2.44	7	NINNEKAH	73.1	104	3	40	23	62	306	5.87	1.53	17
BRISTOW	71.8	104	4	33	23	70	274	4.09	1.06	7	NORMAN	72.8	102	3	39	23	64	297	6.66	1.57	12
CHANDLER	70.2	100	3	38	22	76	232	6.83	2.38	7	OILTON	71.5	104	3	34	23	75	270	4.51	1.19	7
CHICKASHA	71.9	102	3	40	23	66	273	4.94	.89	19	OKEMAH	71.9	104	3	35	23	63	269	5.12	1.25	7
EL RENO	71.1	102	3	37	22	70	253	6.36	1.32	15	PERKINS	71.3	104	3	37	22	72	260	4.49	.92	12
GUTHRIE	72.8	106	3	39	22	60	293	6.48	1.51	15	SHAWNEE	71.5	103	3	39	22	69	265	4.16	.89	7
KINGFISHER	71.1	103	3	40	22	68	250	5.32	1.62	15	SPENCER	70.4	101	3	37	22	75	238	4.84	1.20	12
MARENA	70.7	103	3	37	22	77	248	5.13	1.44	19	STILLWATER	70.0	103	3	37	22	81	231	4.36	1.30	19
MARSHALL	70.7	105	3	38	22	75	244	3.83	1.35	15	WASHINGTON	71.6	102	3	40	23	67	266	4.99	1.09	11
EAST CENTRAL																					
CALVIN	72.4	105	3	37	23	58	279	8.94	2.48	7	SALLISAW	72.8	103	3	37	23	50	283	6.68	1.84	15
COOKSON	70.6	99	2	34	23	66	235	7.77	2.49	28	STIGLER	71.2	102	3	36	23	59	243	7.11	2.65	15
EUFULA	71.6	101	3	38	23	57	256	6.39	1.76	15	STUART	72.3	104	3	38	23	61	281	7.57	1.74	16
HASKELL	71.6	103	3	35	23	66	262	3.93	.84	7	TALHEQUAH	68.3	95	2	33	23	89	187	4.52	1.03	30
MCALESTER	71.9	101	3	38	23	58	265	5.95	1.65	12	WEBBERS FALLS	71.7	100	3	37	23	55	255	6.45	1.98	15
OKMULGEE	71.8	105	3	34	23	63	268	4.81	1.42	16	WESTVILLE	70.0	97	3	35	23	78	228	3.88	.98	15
SOUTHWEST																					
ALTUS	72.1	105	4	45	21	51	265	5.83	1.74	15	HOLLIS	72.7	107	4	42	23	48	278	8.07	2.36	15
APACHE	69.9	100	3	40	23	77	224	5.09	1.00	11	MANGUM	72.5	108	3	41	23	51	277	6.56	1.75	15
FORT COBB	70.1	98	4	40	23	72	225	6.09	2.70	15	MEDICINE PARK	73.3	106	4	43	21	54	302	6.41	1.50	11
GRANDFIELD	72.7	105	4	44	22	50	282	7.14	1.95	15	TIPTON	71.4	102	3	44	21	54	248	5.70	1.67	12
HINTON	70.5	103	3	39	22	70	236	5.52	1.89	15	WALTERS	72.9	107	4	42	23	52	291	4.55	1.19	19
HOBART	71.3	105	3	43	21	62	250	8.74	2.98	15											
SOUTH CENTRAL																					
ADA	73.1	106	3	39	23	56	298	8.07	1.53	16	LANE	72.8	102	1	41	23	48	283	5.57	1.98	12
ARDMORE	75.0	105	3	43	23	43	343	3.60	1.48	19	MADILL	75.2	105	3	43	23	38	344	4.11	1.72	19
BURNEYVILLE	75.7	105	3	43	23	35	356	3.54	1.58	17	PAULS VALLEY	74.2	107	3	40	23	51	328	8.98	2.39	16
BYARS	71.8	102	3	41	23	63	267	6.84	1.98	15	RINGLING	73.4	105	4	43	23	46	297	3.79	1.12	16
CENTRAHOMA	73.3	105	3	38	23	56	305	6.91	2.43	7	SULPHUR	71.2	102	3	39	23	60	244	5.76	2.04	16
DURANT	74.9	104	3	45	23	39	336	6.54	1.78	12	TISHOMINGO	71.8	102	1	40	22	58	263	4.88	1.94	19
KETCHUM RANCH	71.8	101	3	40	23	62	265	6.76	1.47	16	WAURIKA	73.7	106	4	42	23	47	307	4.49	1.48	16
SOUTHEAST																					
ANTLERS	73.5	105	3	38	23	52	306	7.98	3.16	12	IDABEL	74.3	105	1	44	23	25	303	5.23	2.66	19
BROKEN BOW	74.1	105	1	42	23	25	297	4.73	1.70	19	MT HERMAN	70.3	98	1	38	23	58	217	3.71	1.81	12
CLAYTON	73.3	104	3	38	23	51	302	6.91	1.86	12	TALIHINA	71.9	103	3	37	23	55	262	5.77	1.81	12
CLOUDY	72.2	102	3	41	23	50	265	5.93	2.35	12	WILBURTON	72.8	103	3	38	23	58	291	5.28	1.39	16
HUGO	72.5	102	1	42	23	46	271	5.78	2.36	12	WISTER	70.3	100	3	35	23	64	224	4.12	1.07	12



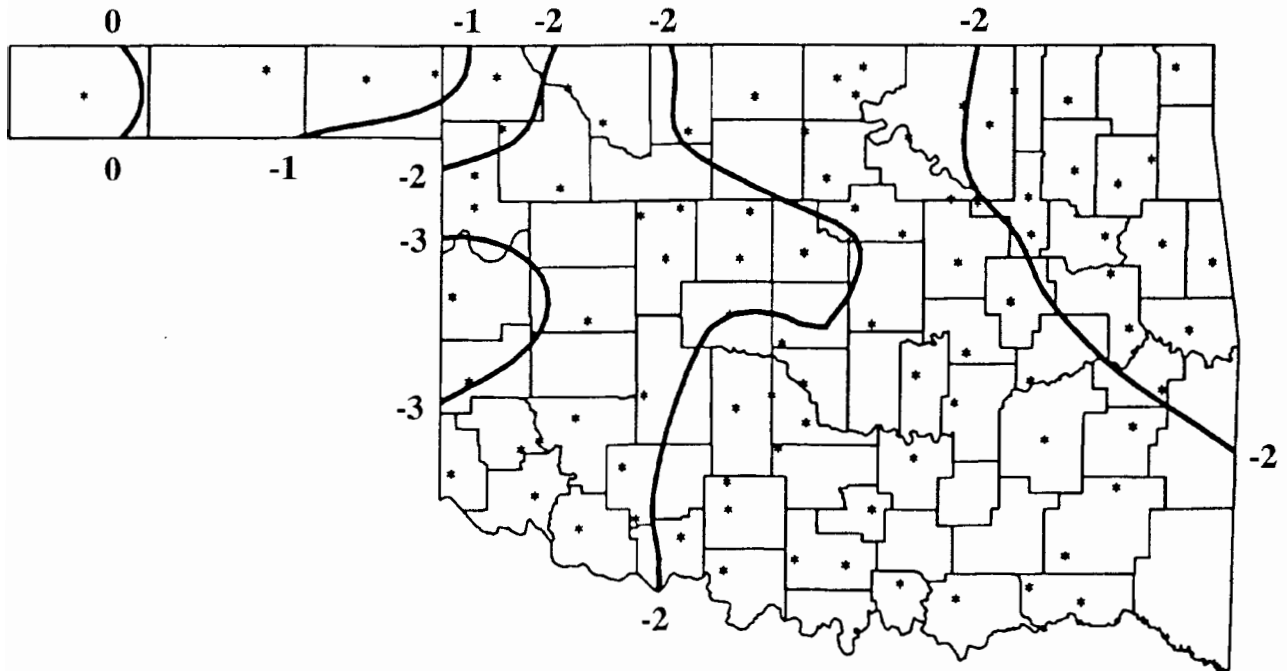
SEPTEMBER 1995 TOTAL PRECIPITATION  
(Inches)



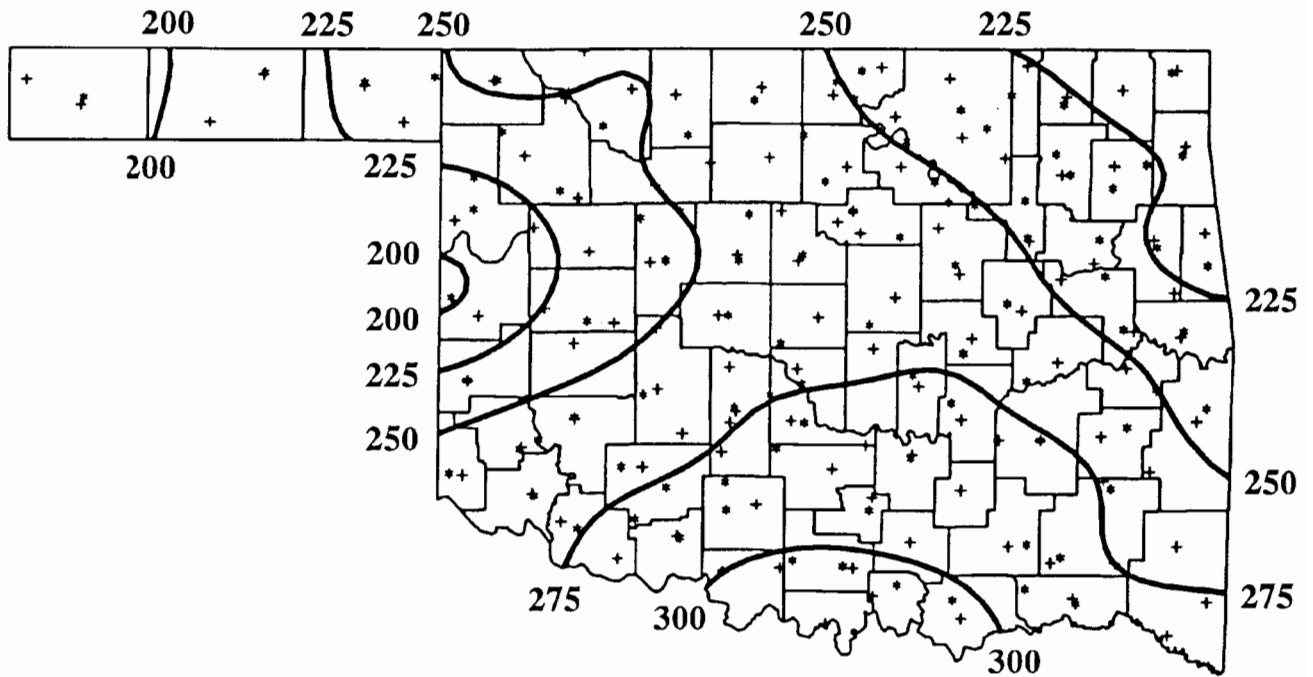
SEPTEMBER 1995 DEVIATION FROM NORMAL PRECIPITATION  
(Inches)



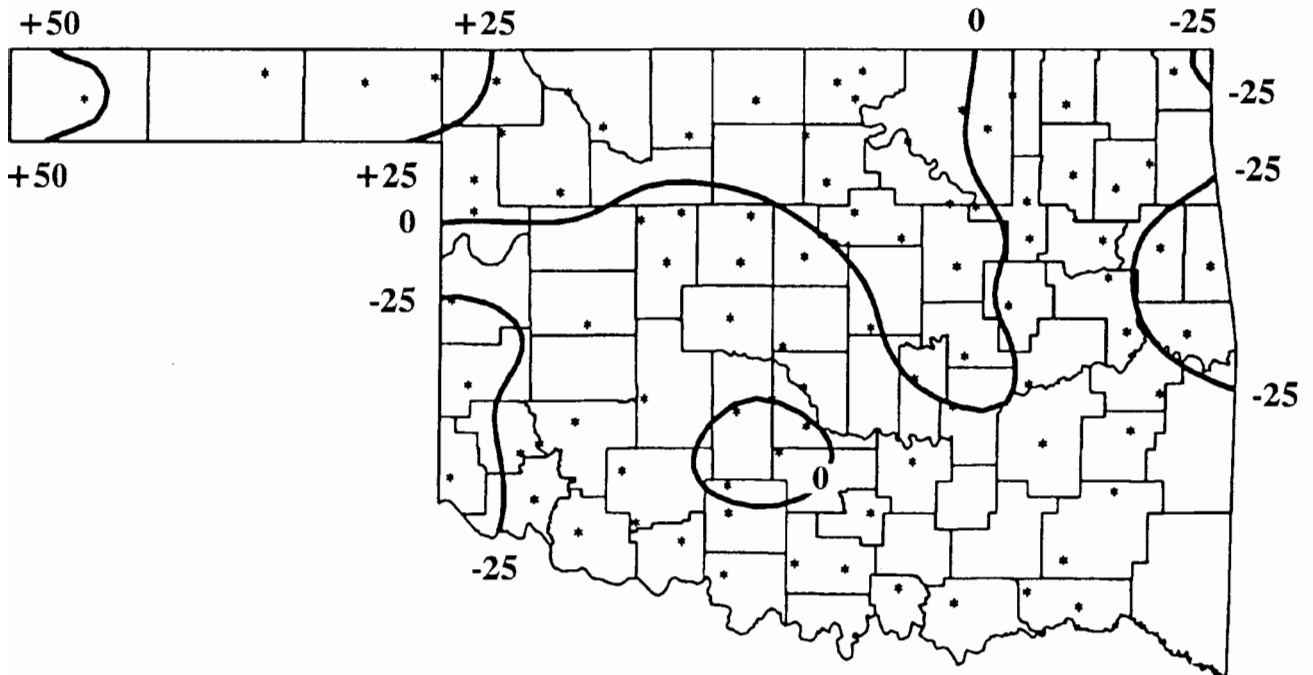
SEPTEMBER 1995 AVERAGE MONTHLY TEMPERATURES  
(Degrees F)



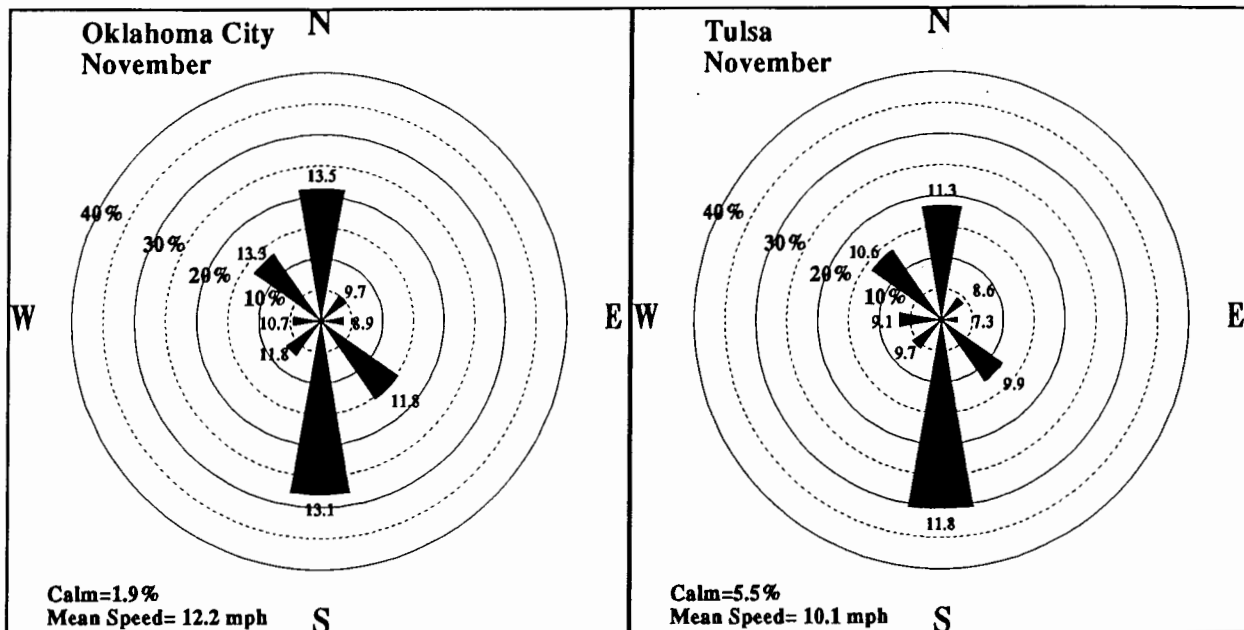
SEPTEMBER 1995 DEVIATION FROM NORMAL TEMPERATURES  
(Degrees F)



SEPTEMBER 1995 COOLING DEGREE DAYS



SEPTEMBER 1995 DEVIATION FROM NORMAL COOLING DEGREE DAYS



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

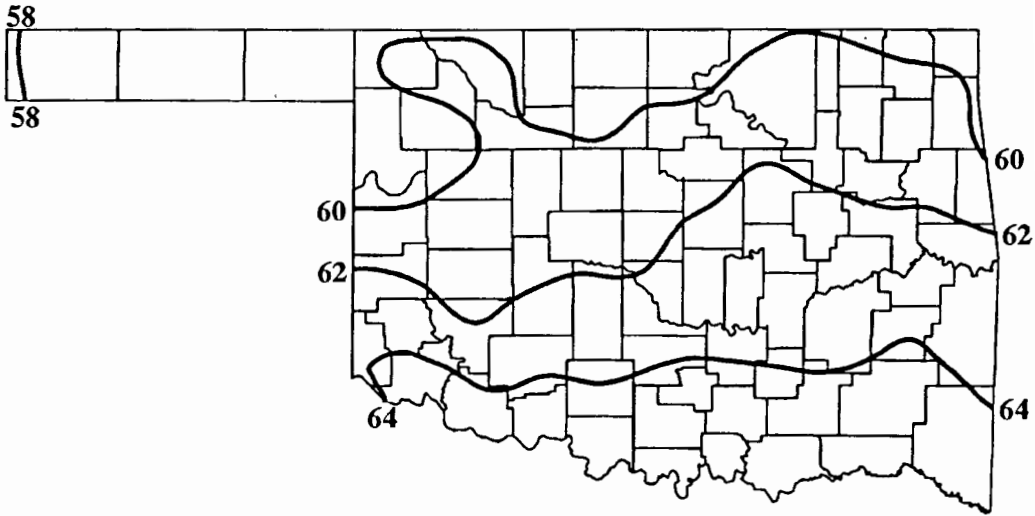
NOVEMBER 1995 SUNRISE AND SUNSET

OKLAHOMA CITY

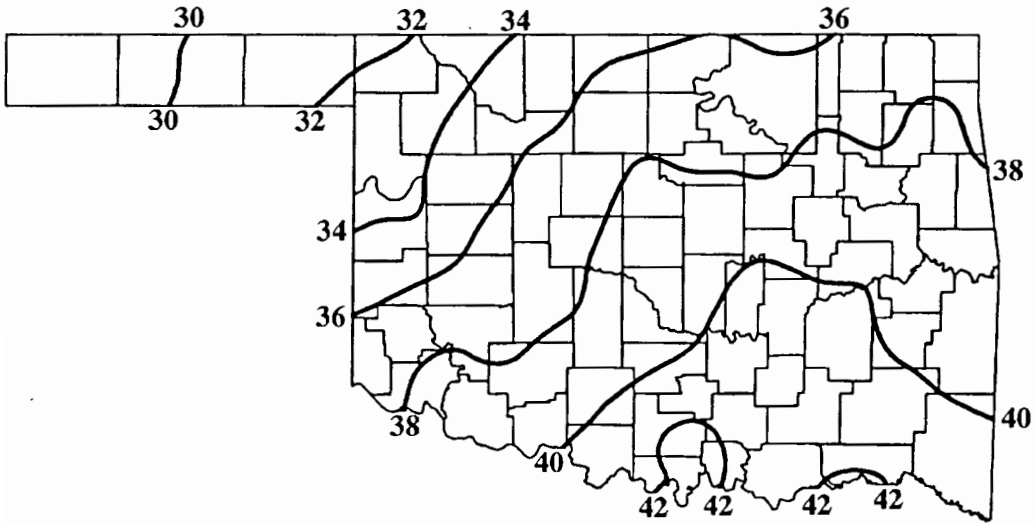
DATE	SUNRISE	SUNSET	DAYLIGHT
9511 1	6:51AM	5:38PM CST	10 hrs 47 mins
9511 2	6:52AM	5:37PM CST	10 hrs 45 mins
9511 3	6:52AM	5:36PM CST	10 hrs 43 mins
9511 4	6:53AM	5:35PM CST	10 hrs 41 mins
9511 5	6:54AM	5:34PM CST	10 hrs 39 mins
9511 6	6:55AM	5:33PM CST	10 hrs 38 mins
9511 7	6:56AM	5:32PM CST	10 hrs 36 mins
9511 8	6:57AM	5:31PM CST	10 hrs 34 mins
9511 9	6:58AM	5:31PM CST	10 hrs 32 mins
951110	6:59AM	5:30PM CST	10 hrs 31 mins
951111	7: 0AM	5:29PM CST	10 hrs 29 mins
951112	7: 1AM	5:29PM CST	10 hrs 27 mins
951113	7: 2AM	5:28PM CST	10 hrs 26 mins
951114	7: 3AM	5:27PM CST	10 hrs 24 mins
951115	7: 4AM	5:27PM CST	10 hrs 22 mins
951116	7: 5AM	5:26PM CST	10 hrs 21 mins
951117	7: 6AM	5:25PM CST	10 hrs 19 mins
951118	7: 7AM	5:25PM CST	10 hrs 18 mins
951119	7: 8AM	5:24PM CST	10 hrs 16 mins
951120	7: 9AM	5:24PM CST	10 hrs 15 mins
951121	7:10AM	5:24PM CST	10 hrs 13 mins
951122	7:11AM	5:23PM CST	10 hrs 12 mins
951123	7:12AM	5:23PM CST	10 hrs 11 mins
951124	7:13AM	5:22PM CST	10 hrs 9 mins
951125	7:14AM	5:22PM CST	10 hrs 8 mins
951126	7:15AM	5:22PM CST	10 hrs 7 mins
951127	7:16AM	5:22PM CST	10 hrs 6 mins
951128	7:17AM	5:21PM CST	10 hrs 5 mins
951129	7:18AM	5:21PM CST	10 hrs 4 mins
951130	7:18AM	5:21PM CST	10 hrs 2 mins

TULSA

DATE	SUNRISE	SUNSET	DAYLIGHT
9511 1	6:45AM	5:30PM CST	10 hrs 45 mins
9511 2	6:46AM	5:29PM CST	10 hrs 43 mins
9511 3	6:47AM	5:28PM CST	10 hrs 41 mins
9511 4	6:48AM	5:27PM CST	10 hrs 39 mins
9511 5	6:49AM	5:26PM CST	10 hrs 37 mins
9511 6	6:50AM	5:25PM CST	10 hrs 35 mins
9511 7	6:51AM	5:24PM CST	10 hrs 33 mins
9511 8	6:52AM	5:23PM CST	10 hrs 31 mins
9511 9	6:53AM	5:23PM CST	10 hrs 30 mins
951110	6:54AM	5:22PM CST	10 hrs 28 mins
951111	6:55AM	5:21PM CST	10 hrs 26 mins
951112	6:56AM	5:20PM CST	10 hrs 24 mins
951113	6:57AM	5:20PM CST	10 hrs 23 mins
951114	6:58AM	5:19PM CST	10 hrs 21 mins
951115	6:59AM	5:18PM CST	10 hrs 19 mins
951116	7: 0AM	5:18PM CST	10 hrs 18 mins
951117	7: 1AM	5:17PM CST	10 hrs 16 mins
951118	7: 2AM	5:17PM CST	10 hrs 15 mins
951119	7: 3AM	5:16PM CST	10 hrs 13 mins
951120	7: 4AM	5:16PM CST	10 hrs 12 mins
951121	7: 5AM	5:15PM CST	10 hrs 10 mins
951122	7: 6AM	5:15PM CST	10 hrs 9 mins
951123	7: 7AM	5:14PM CST	10 hrs 7 mins
951124	7: 8AM	5:14PM CST	10 hrs 6 mins
951125	7: 9AM	5:14PM CST	10 hrs 5 mins
951126	7:10AM	5:13PM CST	10 hrs 3 mins
951127	7:11AM	5:13PM CST	10 hrs 2 mins
951128	7:12AM	5:13PM CST	10 hrs 1 mins
951129	7:13AM	5:12PM CST	10 hrs 0 mins
951130	7:13AM	5:12PM CST	9 hrs 59 mins

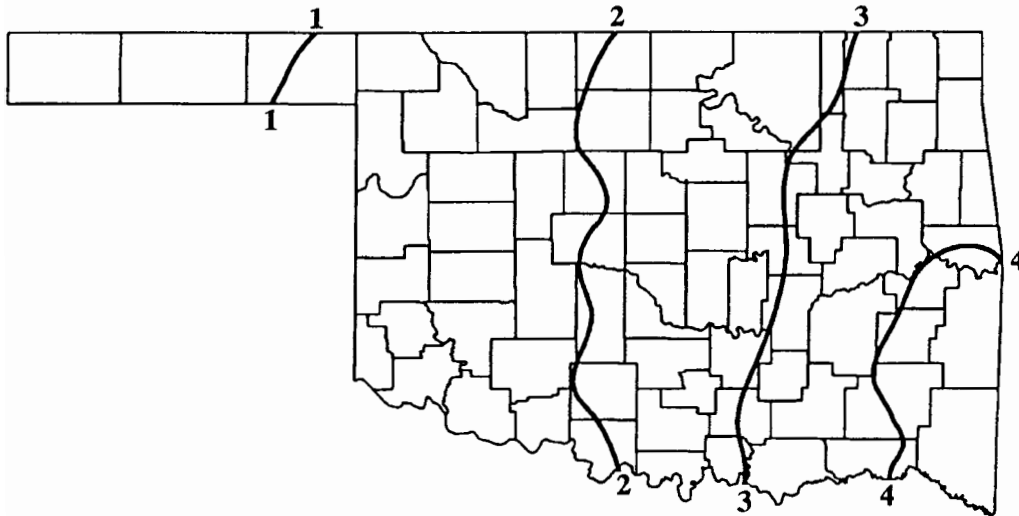


November Normal Daily Maximum Temperatures (°F)



November Normal Daily Minimum Temperatures (°F)





**November Normal Monthly Precipitation (inches)**

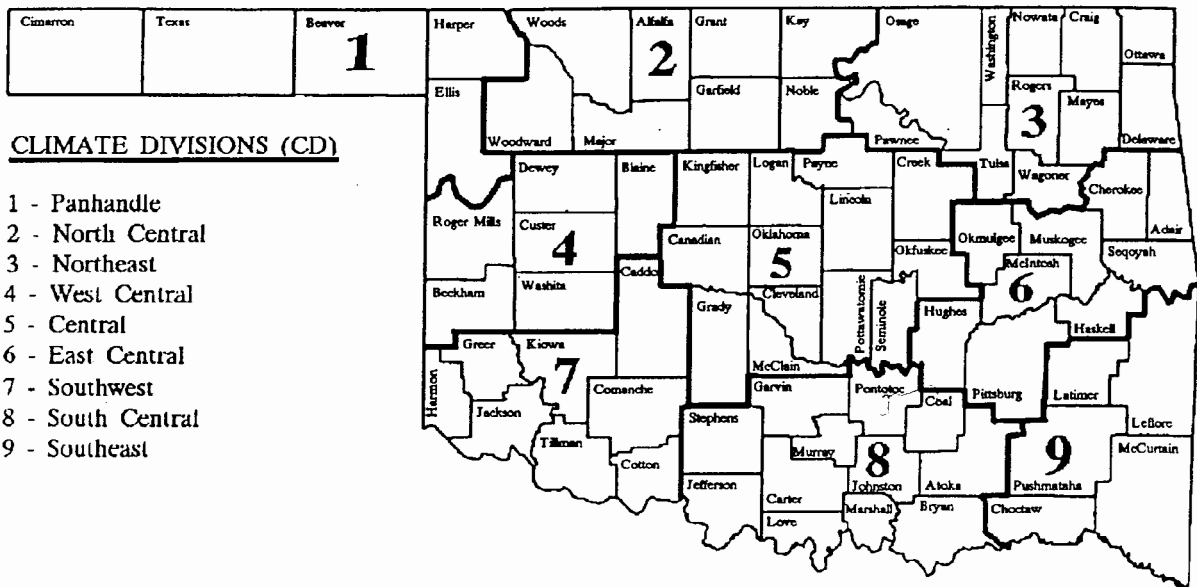
**SEASONAL NATIONAL WEATHER SERVICE OUTLOOK**

**(November 1995 through January 1996)**

**Precipitation - Above Normal Statewide**

**Temperature - Near Normal Statewide**

# OKLAHOMA



### CLIMATE DIVISIONS (CD)

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

### EXPLANATION OF TABLES

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

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

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

- Deviation from Normal Heating Degree Days: A positive value indicates higher than normal heating requirements for the month as a whole. A negative value indicates lower than normal heating requirements for the month as a whole. Normal HDD may be calculated by subtracting the deviation from observed HDD.
- Cooling Degree Days: CDD are calculated each day of the month for which there is a temperature report and the average temperature for the day exceeds 65 degrees. Daily values are summed to give a monthly total. They are a proxy measure of how much cooling was required to maintain a comfortable indoor temperature. Missing observations may result in an artificially high or low value. For June, CDD would be calculated as:

$$\sum_{i=1}^{30} ((TMAX_i + TMIN_i) / 2) - 65$$

Deviation from Normal Cooling Degree Days: A positive value indicates higher than normal cooling requirements for the month as a whole. A negative value indicates lower than normal cooling requirements for the month as a whole. Normal cooling degree days may be found by subtracting the deviation from the observed cooling degree days.

Total Precipitation: Often incorrectly referred to as mean precipitation, this value is the sum of all precipitation reported during the month at a station. If snow occurred, it is to be melted and its water equivalent recorded.

Number of Precipitation Observations: The number of days a rain or no-rain observation was reported. Missing observations frequently result in artificially low total precipitation values.

Deviation from Normal Precipitation: A positive value indicates more rain than normal was received. A negative value indicates less than was expected rainfall was received. Normal rainfall may be calculated by subtracting the deviation from monthly total.

Maximum 24-Hour Report and Day: The maximum amount of precipitation recorded during the station's 24-hour observation period for the current month and year and the day on which it was recorded.

The second set of tables contain similar information but are the average or extreme over all the stations reporting in each climate division.

OKLAHOMA CITY CLIMATE CALENDAR

November 1995

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
67.4 max 45.3 min .05 ppt 9 hdd 1 cdd Highest Max 89-1976 Lowest Max 34-1951 Lowest Min 25-1991 Highest Min 65-1926 Greatest ppt 1.05-1981	_____	63.4 max 42.6 min 0.9 ppt 12 hdd 0 cdd Highest Max 89-1924 Lowest Max 26-1991 Lowest Min 19-1991 Highest Min 66-1938 Greatest ppt 1.51-1974	_____	62.1 max 40.8 min 1.0 ppt 14 hdd 0 cdd Highest Max 84-1909 Lowest Max 36-1991 Lowest Min 11-1991 Highest Min 63-1994 Greatest ppt 1.51-1964	_____	63.2 max 41.1 min 1.0 ppt 13 hdd 0 cdd Highest Max 89-1921 Lowest Max 40-1990 Lowest Min 23-1936 Highest Min 58-1916 Greatest ppt 2.17-1986	_____	62.0 max 41.3 min .05 ppt 13 hdd 0 cdd Highest Max 87-1891 Lowest Max 34-1951 Lowest Min 23-1951 Highest Min 64-1924 Greatest ppt 1.23-1994	_____	63.4 max 41.4 min 0.4 ppt 13 hdd 0 cdd Highest Max 85-1980 Lowest Max 39-1959 Lowest Min 20-1959 Highest Min 63-1945 Greatest ppt 2.14-1895	_____	63.4 max 41.3 min .02 ppt 13 hdd 0 cdd Highest Max 86-1980 Lowest Max 41-1953 Lowest Min 62-1993 Highest Min 62-1916 Greatest ppt 1.71-1920	_____
Normal 8	Actual	Normal 9	Actual	Normal 10	Actual	Normal 11	Actual	Normal 12	Actual	Normal 13	Actual	Normal 14	Actual
63.7 max 41.4 min .08 ppt 13 hdd 0 cdd Highest Max 87-1980 Lowest Max 39-1936 Lowest Min 19-1991 Highest Min 66-1966 Greatest ppt 1.42-1895	_____	62.7 max 39.8 min .02 ppt 14 hdd 0 cdd Highest Max 82-1988 Lowest Max 37-1950 Lowest Min 25-1955 Highest Min 61-1939 Greatest ppt 1.15-1977	_____	62.7 max 38.6 min .02 ppt 15 hdd 0 cdd Highest Max 81-1980 Lowest Max 33-1950 Lowest Min 20-1950 Highest Min 60-1982 Greatest ppt 1.17-1937	_____	63.7 max 39.4 min .03 ppt 14 hdd 0 cdd Highest Max 89-1911 Lowest Max 33-1935 Lowest Min 17-1911 Highest Min 61-1922 Greatest ppt 1.10-1988	_____	63.9 max 39.7 min .06 ppt 13 hdd 0 cdd Highest Max 79-1910 Lowest Max 29-1940 Lowest Min 14-1911 Highest Min 62-1902 Greatest ppt 1.18-1922	_____	64.4 max 40.3 min .06 ppt 13 hdd 0 cdd Highest Max 80-1967 Lowest Max 28-1986 Lowest Min 12-1940 Highest Min 61-1989 Greatest ppt 9.22-1909	_____	64.4 max 41.3 min .05 ppt 14 hdd 0 cdd Highest Max 79-1973 Lowest Max 29-1940 Lowest Min 14-1916 Highest Min 66-1977 Greatest ppt 1.56-1924	_____
Normal 15	Actual	Normal 16	Actual	Normal 17	Actual	Normal 18	Actual	Normal 19	Actual	Normal 20	Actual	Normal 21	Actual
61.8 max 40.2 min .14 ppt 14 hdd 0 cdd Highest Max 84-1903 Lowest Max 32-1932 Lowest Min 15-1940 Highest Min 61-1971 Greatest ppt 2.43-1890	_____	58.5 max 38.9 min .03 ppt 17 hdd 0 cdd Highest Max 82-1941 Lowest Max 31-1937 Lowest Min 14-1932 Highest Min 64-1958 Greatest ppt 3.94-1931	_____	59.0 max 36.6 min .08 ppt 17 hdd 0 cdd Highest Max 80-1896 Lowest Max 30-1903 Lowest Min 9-1894 Highest Min 61-1896 Greatest ppt 1.70-1884	_____	58.4 max 38.1 min .06 ppt 17 hdd 0 cdd Highest Max 80-1930 Lowest Max 35-1903 Lowest Min 13-1903 Highest Min 64-1934 Greatest ppt 2.14-1899	_____	59.7 max 37.1 min .11 ppt 17 hdd 0 cdd Highest Max 82-1889 Lowest Max 31-1937 Lowest Min 18-1937 Highest Min 69-1913 Greatest ppt 4.46-1899	_____	59.0 max 35.5 min .05 ppt 18 hdd 0 cdd Highest Max 78-1889 Lowest Max 25-1906 Lowest Min 19-1937 Highest Min 60-1990 Greatest ppt 2.17-1994	_____	59.0 max 35.7 min .05 ppt 18 hdd 0 cdd Highest Max 80-1927 Lowest Max 29-1926 Lowest Min 14-1898 Highest Min 69-1902 Greatest ppt 1.48-1916	_____
Normal 22	Actual	Normal 23	Actual	Normal 24	Actual	Normal 25	Actual	Normal 26	Actual	Normal 27	Actual	Normal 28	Actual
59.1 max 35.8 min .04 ppt 18 hdd 0 cdd Highest Max 78-1982 Lowest Max 27-1988 Lowest Min 15-1988 Highest Min 60-1966 Greatest ppt 1.54-1931	_____	57.6 max 34.6 min .03 ppt 19 hdd 0 cdd Highest Max 79-1973 Lowest Max 29-1995 Lowest Min 19-1950 Highest Min 60-1966 Greatest ppt 1.82-1931	_____	56.2 max 35.1 min .08 ppt 19 hdd 0 cdd Highest Max 84-1965 Lowest Max 32-1918 Lowest Min 15-1950 Highest Min 60-1966 Greatest ppt 1.14-1973	_____	60.5 max 37.7 min .07 ppt 16 hdd 0 cdd Highest Max 84-1965 Lowest Max 28-1993 Lowest Min 15-1993 Highest Min 62-1966 Greatest ppt 2.01-1940	_____	57.9 max 36.0 min .13 ppt 18 hdd 0 cdd Highest Max 81-1910 Lowest Max 31-1992 Lowest Min 13-1993 Highest Min 62-1980 Greatest ppt 1.80-1982	_____	51.6 max 32.0 min .06 ppt 23 hdd 0 cdd Highest Max 82-1905 Lowest Max 26-1996 Lowest Min 16-1976 Highest Min 63-1927 Greatest ppt 1.30-1908	_____	51.6 max 32.0 min .06 ppt 23 hdd 0 cdd Highest Max 81-1949 Lowest Max 26-1911 Lowest Min 14-1896 Highest Min 59-1927 Greatest ppt 1.44-1908	_____
Normal 29	Actual	Normal 30	Actual										
53.0 max 30.0 min .01 ppt 24 hdd 0 cdd Highest Max 80-1927 Lowest Max 28-1997 Lowest Min 11-1911 Highest Min 64-1933 Greatest ppt .61-1930	_____	54.5 max 31.9 min .02 ppt 22 hdd 0 cdd Highest Max 74-1946 Lowest Max 32-1896 Lowest Min 13-1976 Highest Min 60-1933 Greatest ppt .72-1909	_____										

NOVEMBER AVERAGES

TEMPERATURE : 49.0°F

PRECIPITATION : 1.68"

HEATING DEGREE DAYS : 485

COOLING DEGREE DAYS : 1

TULSA CLIMATE CALENDAR

November 1995

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

Normal 1		Normal 2		Normal 3		Normal 4		Normal 5		Normal 6		Normal 7	
Actual	max	Actual	max	Actual	max	Actual	max	Actual	max	Actual	max	Actual	max
69.0	46.0	65.0	44.0	63.0	41.0	62.0	41.0	62.0	41.0	62.0	41.0	63.0	41.0
min	ppt	min	ppt	min	ppt	min	ppt	min	ppt	min	ppt	min	ppt
8	.09	.17	.11	.17	.13	.08	.12	.02	.03	.06	.03	.03	.03
hdd	hdd	hdd	hdd	hdd	hdd	hdd	hdd	hdd	hdd	hdd	hdd	hdd	hdd
1	0	0	0	1	0	0	0	0	0	0	0	0	0
cdd	cdd	cdd	cdd	cdd	cdd	cdd	cdd	cdd	cdd	cdd	cdd	cdd	cdd
Highest Max	85-1916	Highest Max	89-1909	Highest Max	88-1909	Highest Max	86-1914	Highest Max	87-1914	Highest Max	87-1945	Highest Max	85-1980
Lowest Max	37-1951	Lowest Max	27-1991	Lowest Max	35-1991	Lowest Max	31-1951	Lowest Max	34-1951	Lowest Max	39-1959	Lowest Max	41-1991
Lowest Min	25-1991	Lowest Min	20-1966	Lowest Min	16-1991	Lowest Min	21-1991	Lowest Min	25-1976	Lowest Min	20-1959	Lowest Min	22-1991
Highest Min	64-1987	Highest Min	65-1983	Highest Min	67-1983	Highest Min	60-1987	Highest Min	60-1965	Highest Min	60-1965	Highest Min	60-1966
Greatest ppt	1.27-1984	Greatest ppt	2.82-1974	Greatest ppt	3.20-1974	Greatest ppt	2.49-1994	Greatest ppt	1.99-1994	Greatest ppt	.90-1964	Greatest ppt	.63-1957
Normal 8		Normal 9		Normal 10		Normal 11		Normal 12		Normal 13		Normal 14	
Actual	max	Actual	max	Actual	max	Actual	max	Actual	max	Actual	max	Actual	max
64.0	43.0	63.0	40.0	63.0	39.0	62.0	39.0	63.0	40.0	65.0	39.0	62.0	41.0
min	ppt	min	ppt	min	ppt	min	ppt	min	ppt	min	ppt	min	ppt
.09	.12	.04	.13	.06	.14	.03	.14	.09	.13	.07	.13	.06	.14
hdd	hdd	hdd	hdd	hdd	hdd	hdd	hdd	hdd	hdd	hdd	hdd	hdd	hdd
2	0	0	0	0	0	0	0	0	0	0	0	0	0
cdd	cdd	cdd	cdd	cdd	cdd	cdd	cdd	cdd	cdd	cdd	cdd	cdd	cdd
Highest Max	84-1980	Highest Max	82-1934	Highest Max	83-1949	Highest Max	85-1989	Highest Max	80-1989	Highest Max	84-1910	Highest Max	79-1989
Lowest Max	41-1991	Lowest Max	42-1950	Lowest Max	37-1950	Lowest Max	31-1986	Lowest Max	34-1986	Lowest Max	30-1986	Lowest Max	33-1959
Lowest Min	16-1991	Lowest Min	23-1955	Lowest Min	21-1950	Lowest Min	17-1950	Lowest Min	15-1911	Lowest Min	12-1940	Lowest Min	13-1916
Highest Min	67-1966	Highest Min	58-1984	Highest Min	62-1949	Highest Min	60-1949	Highest Min	62-1951	Highest Min	62-1989	Highest Min	62-1968
Greatest ppt	1.45-1977	Greatest ppt	.55-1974	Greatest ppt	.63-1986	Greatest ppt	1.57-1992	Greatest ppt	2.64-1972	Greatest ppt	1.80-1985	Greatest ppt	1.08-1978
Normal 15		Normal 16		Normal 17		Normal 18		Normal 19		Normal 20		Normal 21	
Actual	max	Actual	max	Actual	max	Actual	max	Actual	max	Actual	max	Actual	max
63.0	42.0	61.0	40.0	60.0	39.0	58.0	39.0	60.0	38.0	58.0	36.0	58.0	35.0
min	ppt	min	ppt	min	ppt	min	ppt	min	ppt	min	ppt	min	ppt
.25	.13	.06	.15	.14	.16	.09	.16	.17	.16	.20	.18	.03	.18
hdd	hdd	hdd	hdd	hdd	hdd	hdd	hdd	hdd	hdd	hdd	hdd	hdd	hdd
3	0	0	0	0	0	0	0	0	0	0	0	0	0
cdd	cdd	cdd	cdd	cdd	cdd	cdd	cdd	cdd	cdd	cdd	cdd	cdd	cdd
Highest Max	82-1950	Highest Max	83-1969	Highest Max	80-1969	Highest Max	82-1990	Highest Max	81-1908	Highest Max	81-1989	Highest Max	79-1927
Lowest Max	38-1976	Lowest Max	37-1955	Lowest Max	32-1959	Lowest Max	37-1972	Lowest Max	35-1972	Lowest Max	38-1972	Lowest Max	34-1964
Lowest Min	11-1940	Lowest Min	14-1932	Lowest Min	11-1959	Lowest Min	19-1951	Lowest Min	14-1937	Lowest Min	16-1937	Lowest Min	18-1964
Highest Min	63-1964	Highest Min	65-1958	Highest Min	55-1975	Highest Min	60-1985	Highest Min	61-1979	Highest Min	62-1979	Highest Min	53-1966
Greatest ppt	2.50-1964	Greatest ppt	1.49-1978	Greatest ppt	1.24-1952	Greatest ppt	1.26-1964	Greatest ppt	1.65-1963	Greatest ppt	1.59-1979	Greatest ppt	.70-1961
Normal 22		Normal 23		Normal 24		Normal 25		Normal 26		Normal 27		Normal 28	
Actual	max	Actual	max	Actual	max	Actual	max	Actual	max	Actual	max	Actual	max
59.0	37.0	58.0	35.0	56.0	35.0	60.0	37.0	57.0	36.0	52.0	33.0	50.0	31.0
min	ppt	min	ppt	min	ppt	min	ppt	min	ppt	min	ppt	min	ppt
.07	.17	.02	.18	.16	.20	.07	.16	.11	.18	.08	.23	.03	.25
hdd	hdd	hdd	hdd	hdd	hdd	hdd	hdd	hdd	hdd	hdd	hdd	hdd	hdd
7	0	0	0	0	0	0	0	0	0	0	0	0	0
cdd	cdd	cdd	cdd	cdd	cdd	cdd	cdd	cdd	cdd	cdd	cdd	cdd	cdd
Highest Max	79-1966	Highest Max	78-1974	Highest Max	80-1965	Highest Max	84-1965	Highest Max	83-1965	Highest Max	77-1927	Highest Max	81-1949
Lowest Max	38-1971	Lowest Max	33-1970	Lowest Max	35-1950	Lowest Max	31-1993	Lowest Max	30-1975	Lowest Max	35-1985	Lowest Max	28-1976
Lowest Min	16-1929	Lowest Min	17-1970	Lowest Min	14-1950	Lowest Min	17-1950	Lowest Min	14-1993	Lowest Min	16-1938	Lowest Min	13-1976
Highest Min	62-1966	Highest Min	63-1966	Highest Min	61-1966	Highest Min	61-1966	Highest Min	65-1990	Highest Min	56-1960	Highest Min	60-1991
Greatest ppt	.90-1982	Greatest ppt	.35-1952	Greatest ppt	2.54-1973	Greatest ppt	1.03-1986	Greatest ppt	1.56-1982	Greatest ppt	1.13-1982	Greatest ppt	.53-1988
Normal 29		Normal 30		NOVEMBER AVERAGES		TEMPERATURE		PRECIPITATION		HEATING DEGREE DAYS		COOLING DEGREE DAYS	
Actual	max	Actual	max			: 49.3 °F				: 2.62"			
63.0	43.0	54.0	31.0										
min	ppt	min	ppt										
.05	.23	.03	.23										
hdd	hdd	hdd	hdd										
23	0	0	0										
cdd	cdd	cdd	cdd										
Highest Max	82-1927	Highest Max	76-1933										
Lowest Max	36-1979	Lowest Max	33-1974										
Lowest Min	10-1976	Lowest Min	13-1964										
Highest Min	54-1975	Highest Min	55-1970										
Greatest ppt	1.08-1975	Greatest ppt	.73-1981										

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