

OKLAHOMA MONTHLY SUMMARY SEPTEMBER 1994

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MONTHLY SUMMARY FOR SEPTEMBER 1994

Mild, dry weather dominated Oklahoma's weather during September. The state-averaged precipitation of 2.42 inches was approximately an inch and a half below normal. Temperatures averaged 71.6 degrees across the state in September, 1.4 degrees below normal. For the year to date, the statewide precipitation of 26.09 inches is one inch less than normal. The average temperature through the first nine months of the year is 63.4 degrees, two-tenths of a degree below normal.

A frontal system that entered the state at the end of August produced widespread showers, especially notable in south central Oklahoma over the first two days of September. Cloudy, showery and cool weather prevailed in many areas over the next few days, although temperatures in the southwest reached the upper 90s on the 3rd through the 5th.

Thunderstorms developed in western Oklahoma the evening of the 7th and spread eastward overnight, producing scattered instances of hail or wind damage and some locally heavy rain. Winds estimated at 60 to 70 miles per hour accompanied dime-sized hail at Hooker (Texas County). Quarter-sized hail occurred near Optima (Texas County) and 50 to 60 mile-per-hour winds were reported at Beaver and Woodward. The Oklahoma Mesonet site at Cheyenne (Roger Mills) recorded a peak wind of 59 miles per hour. Winds destroyed a mobile home near Alex (Grady). Edmond (Oklahoma) received 4.6 inches of rain according to unofficial reports.

Another round of thunderstorms on the 14th and 15th produced the month's most significant widespread precipitation. Kingston (Marshall) and Kansas (Delaware) each reported over 4 inches of precipitation. Konowa (Seminole), Oktaha (Muskogee), Madill (Marshall) and Boynton (Muskogee) all reported more than three inches of rain.

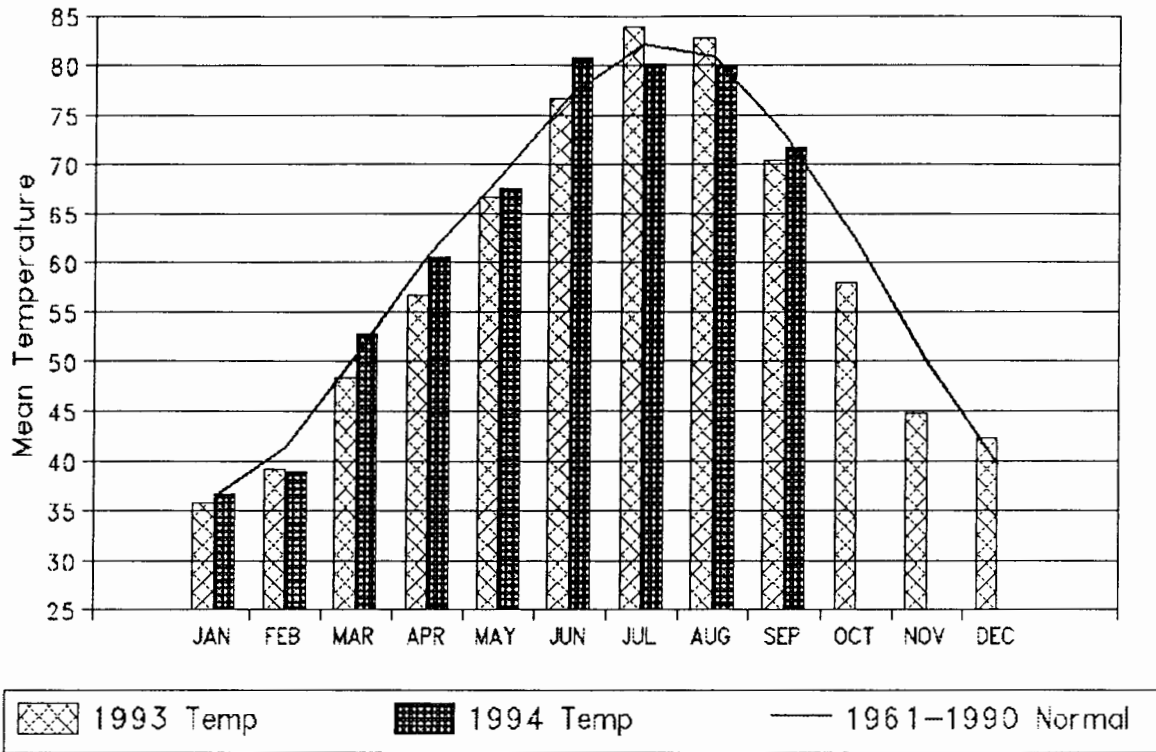
A strong cold front pushed through the state on the 21st, touching off a round of thunderstorms that produced strong winds and scattered reports of hail across much of northern Oklahoma. Mesonet sites near Woodward and Pawnee recorded wind gusts in excess of 60 knots. Three-quarter inch hail and 50 to 60 mile-per-hour wind were reported near Plainview (Woods) and Tangier (Woodward). Bristow (Creek) reported receiving small hail and 2.11 inches of rain.

The infusion of cooler air behind the cold front lowered overnight temperatures into the 30s. The lowest reported temperature for the month, 33 degrees, occurred at Waynoka on the 23rd. The National Weather Service cooperative observer at Laverne reported frost on the ground. Temperatures in the 30s were recorded at several Mesonet sites located in southeastern Oklahoma valleys. The 23rd and 24th were the coolest days of the month with daytime temperatures in the 50s in a few areas and the 60s and 70s over most of the state.

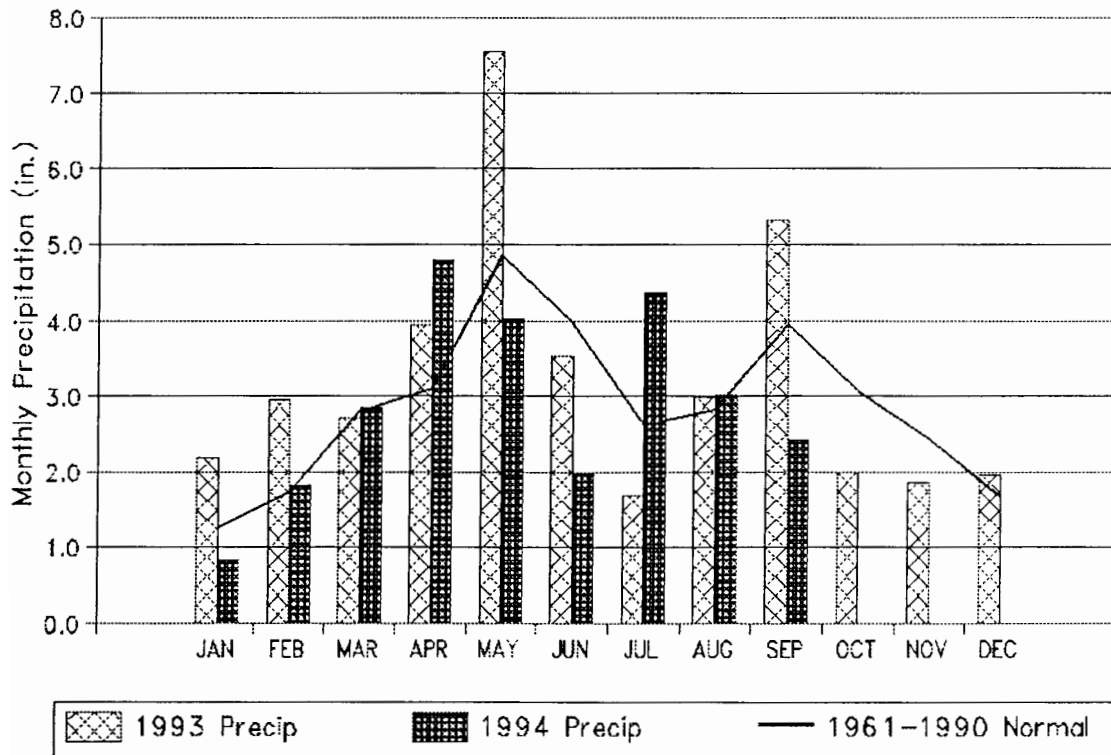
A warming trend during the last week of September gave the first few days of autumn a distinctively summer feel in western Oklahoma that extended statewide by the end of the month. Buffalo (Harper), Chattanooga (Comanche), McCurtain (Haskell), Jefferson (Grant) and Alva (Woods) all reported temperatures of 100 degrees or more on the 29th.

Howard L. Johnson

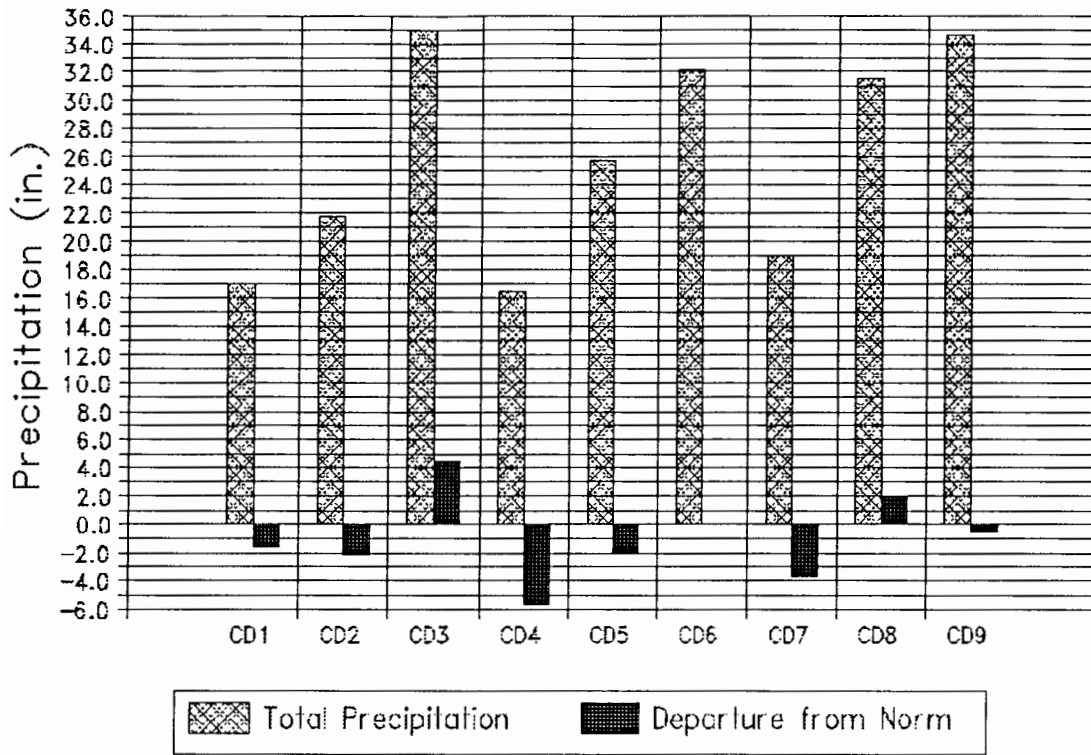
1993 and 1994 STATEWIDE TEMPERATURES Monthly Averages



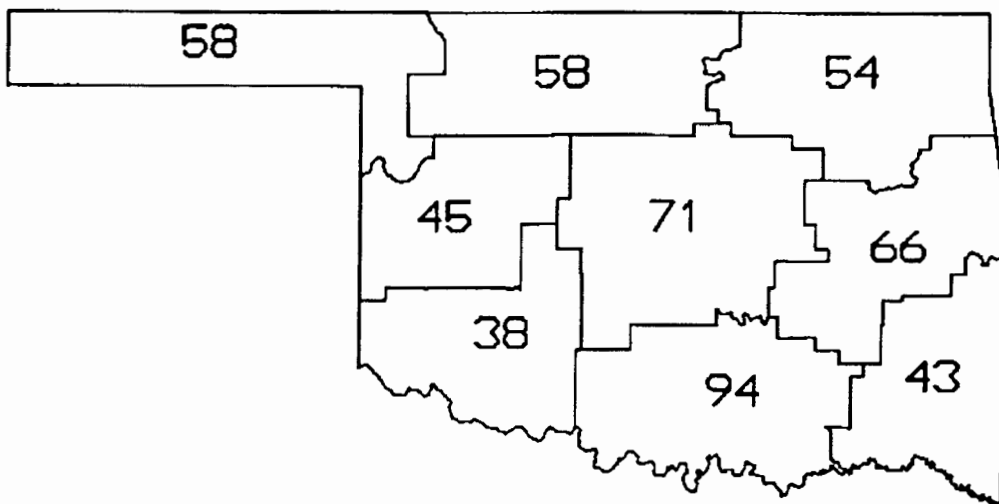
1993 and 1994 STATEWIDE PRECIPITATION Monthly Totals



CD Averaged Precipitation January through September 1994



CD PERCENT OF NORMAL PRECIPITATION



SEPTEMBER 1994

EXTREME VALUES OF TEMPERATURE AND PRECIPITATION IN EACH CLIMATE DIVISION
SEPTEMBER, 1994

CD	MAX			MIN			24-HOUR			MONTHLY	
	TEMP	DATE	LOCATION	TEMP	DATE	LOCATION	PRECIP	DATE	LOCATION	PRECIP	LOCATION
1	102	29	BUFFALO	36	24	ARNETT	1.13	8	GAGE	2.09	LAVERNE
				36	25	ARNETT					
				36	24	GAGE					
				36	21	KENTON					
				36	23	KENTON					
2	100	29	ALVA	33	23	WAYNOKA	2.58	15	BRAMAN	4.13	BRAMAN
	100	29	JEFFERSON								
3	94	30	KEYSTONE DAM	37	27	MIAMI	4.10	16	KANSAS	5.43	JAY TOWER
4	99	28	REYDON	37	24	HAMMON	1.83	1	GEARY	2.80	GEARY
5	98	29	HENNESSEY	40	24	CUSHING	3.89	16	KONAWA	6.45	PURCELL
				40	24	HENNESSEY					
6	100	29	MCCURTAIN	41	26	HANNA	3.31	16	OKTAHA	6.77	OKTAHA
				41	27	HANNA					
7	102	14	ALTUS DAM	39	23	CHATTANOOGA	1.69	9	RANDLETT	2.46	DUNCAN
				39	23	MANGUM					
8	96	30	ATOKA DAM	40	23	MARLOW	4.30	16	KINGSTON	7.95	MADILL
	96	30	MCGEE CREEK	40	23	MCGEE CREEK					
	96	30	WAURIKA DAM								
9	99	29	WILBURTON	37	23	ANTLERS	2.64	1	HEAVENER	3.67	BENGAL

TABLE OF 1993/1994 COMPARISONS

Station	September Temperature (°F)		September Precipitation (in.)	
	1993	1994	1993	1994
Arnett	65.4	69.2	2.78	1.42
Enid	70.0	72.3	2.16	1.01
Mutual	67.6	70.4	1.74	1.63
Tulsa	69.3	71.2	6.87	3.60
Elk City	70.9	72.8	1.23	2.15
Oklahoma City	69.7	70.7	7.05	1.65
McAlester	73.4	73.0	8.32	0.98
Altus Irr Sta	72.7	74.2	3.29	1.55
Durant	71.8	72.8	6.15	2.64
Ada	70.6	71.1	12.49	5.03
Hugo	74.5	73.8	3.25	2.82

EXTREMES

Variable	Station	Division	Observation	Date
Minimum temperature (°F)	Waynoka	2	33	23
Maximum temperature (°F)	Buffalo	1	102	29
Maximum 24-hour precipitation	Kingston	8	4.30"	16

SEPTEMBER 1994 SUMMARY FOR NORTHWEST DIVISION (CD1)

NAME	ID	CD	DEV				MIN	HEAT				TOT	NUM	DEV		24-HR	DAY	
			MEAN	NUM	FROM	MAX		DEG	FROM	DEG	FROM			FROM	NORM			FROM
ARNETT	332	1	69.2	30	-.8	95.	29	36.	25	49.5	24.5	174.5	-.5	1.420	30	-1.11	1.00	8
BEAVER	593	1	69.1	30	-.6	99.	30	36.	25	48.5	17.5	171.0	-1.0	.780	30	-1.04	.63	8
BOISE CITY 2 E	908	1	69.2	30	1.4	98.	29	35.	24	38.0	6.0	163.0	47.0	.432	30	-1.40	.21	1
BUFFALO	1243	1	73.4	30	.5	102.	29	37.	24	28.0	15.0	281.5	31.5	.810	30	-2.27	.71	8
FARGO	3070	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.770	30	-.50	1.07	8
GAGE FAA APT	3407	1	71.4	29	-.2	98.	29	36.	24	37.5	19.5	223.0	7.0	1.843	29	*****	1.13	8
GATE	3489	1	70.8	30	-.4	100.	30	39.	24	39.0	22.0	211.5	8.5	1.973	30	-.12	.97	1
GOODWELL RES ST	3628	1	69.3	30	1.2	99.	30	38.	29	38.0	-1.0	166.0	34.0	.801	30	-.88	.54	8
GUYMON	3835	1	69.4	24	*****	98.	28	37.	24	40.0	*****	144.5	*****	1.131	28	*****	.63	8
HOOKER	4298	1	68.6	30	-.9	96.	30	36.	24	48.0	14.0	154.5	-14.5	1.920	30	-.13	1.23	8
KENTON	4766	1	68.1	30	1.4	94.	30	36.	24	47.5	-1.5	140.5	40.5	.526	30	-1.32	.14	3
LAVERNE	5045	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.092	30	.07	.98	1
OPTIMA LAKE	6740	1	68.7	30	*****	98.	30	36.	24	49.5	*****	159.0	*****	1.331	30	*****	1.03	8
REGNIER	7534	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.181	30	-1.52	.13	21
TURPIN 4 SSE	9017	1	67.7	30	*****	96.	30	35.	24	55.5	*****	135.5	*****	2.211	30	*****	1.56	1

SEPTEMBER 1994 SUMMARY FOR NORTH CENTRAL DIVISION (CD2)

NAME	ID	CD	DEV				MIN	HEAT				TOT	NUM	DEV		24-HR	DAY	
			MEAN	NUM	FROM	MAX		DEG	FROM	DEG	FROM			FROM	NORM			FROM
ALVA	193	2	73.0	31	*****	100.	29	40.	24	23.5	*****	271.0	*****	1.650	31	*****	.78	1
VANCE AFB	302	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.215	28	*****	.11	22
BILLINGS	755	2	69.8	30	-2.7	96.	30	43.	25	36.0	16.0	178.5	-63.5	1.393	30	-3.15	.55	6
BLACKWELL 2E	818	2	72.4	29	-.4	98.	29	46.	24	16.5	-.5	230.0	-21.0	4.044	30	-.04	2.38	8
BRAMAN	1075	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.130	30	*****	2.58	15
CEDARDALE	1620	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.890	30	*****	.95	8
CHEROKEE	1724	2	72.4	29	-1.4	98.	29	40.	24	23.0	12.0	237.0	-38.0	2.150	29	*****	1.55	3
ENID	2912	2	72.3	30	-1.1	96.	29	42.	24	23.0	10.0	242.0	-23.0	1.010	30	-2.47	.43	1
FT SUPPLY DAM	3304	2	69.5	30	-.9	95.	30	36.	24	45.0	23.0	180.0	-4.0	3.370	30	1.06	2.02	1
FREEDOM	3358	2	68.9	30	-3.8	99.	30	37.	25	43.0	29.0	161.0	-84.0	2.180	30	-.41	.92	8
GREAT SALT PLNS	3740	2	70.4	30	-1.7	99.	30	41.	24	34.0	17.0	196.0	-34.0	1.350	30	-1.98	.69	1
HARDY	3909	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.815	30	*****	1.10	1
HELENA 1 SSE	4019	2	71.0	30	-.5	99.	30	40.	25	36.0	17.0	217.0	3.0	1.512	30	-1.72	.88	1
JEFFERSON	4573	2	71.3	30	-2.0	100.	29	41.	24	21.0	10.0	211.5	-48.5	1.591	30	-2.10	.88	5
LAMONT	5013	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.780	30	*****	.88	8
MEDFORD	5768	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.210	30	*****	.65	5
MORRISON	6065	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.890	30	*****	.68	9
MUTUAL	6139	2	70.4	30	-.8	98.	30	38.	24	35.0	16.0	196.0	-9.0	1.630	30	-1.02	.56	5
NEWKIRK	6278	2	70.6	30	-2.1	94.	29	44.	24	26.0	12.0	193.5	-51.5	1.532	30	-2.74	.45	22
ORIENTA	6751	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.130	30	.07	2.39	1
PERRY	7012	2	72.4	30	-1.2	96.	29	44.	24	13.0	-1.0	234.5	-37.5	1.570	30	-2.81	.43	8
PONCA CITY FAA	7201	2	71.9	30	-.2	96.	29	45.	24	29.0	6.0	236.5	.5	1.853	30	-2.49	.91	8
RED ROCK 1 NNE	7505	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.220	30	-3.01	.43	22
WAYNOKA	9404	2	70.6	30	-2.3	99.	29	33.	23	42.0	28.0	210.5	-40.5	1.930	30	-.64	1.26	1
WOODWARD	9760	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.431	30	-.91	.63	1

SEPTEMBER 1994 SUMMARY FOR NORTHEAST DIVISION (CD3)

NAME	ID	CD	DEV						HEAT				COOL				DEV			
			MEAN	NUM	FROM	MAX	MIN	DAY	DEG	FROM	DEG	FROM	DEG	FROM	TOT	NUM	FROM	MAX	DAY	
TEMP	OBS	NORM	TEMP	DAY	TEMP	DAY	DAY	NORM	DAY	NORM	DAY	NORM	PPT	OBS	NORM	24-HR	DAY			
BARNSDALL	535	3	69.3	30	-3.5	91.	6	44.	27	32.5	8.5	161.5	-96.5	1.603	30	-4.01	.61	9		
BARTLESVILLE 2W	548	3	70.1	30	-2.7	92.	29	43.	27	26.5	10.5	178.5	-71.5	2.341	30	-2.23	.98	22		
BIXBY	782	3	69.5	30	-2.0	93.	30	46.	25	31.0	10.0	167.0	-49.0	3.291	30	-1.42	1.00	22		
BURBANK	1256	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.170	30	-2.49	1.33	8		
CHELSEA 4 S	1717	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.810	30	*****	.75	16		
CLAREMORE	1828	3	69.3	30	-2.7	90.	30	47.	27	34.0	10.0	162.5	-71.5	3.370	30	-1.08	.90	16		
CLEVELAND 5 WSW	1902	3	70.4	30	*****	91.	29	45.	23	29.0	*****	190.0	*****	2.090	30	*****	1.20	22		
FORAKER	3250	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.450	30	-2.39	1.30	22		
HOLLOW	4258	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.190	30	-2.84	.86	15		
HOMINY	4289	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.172	30	-3.95	.36	22		
HULAH DAM	4393	3	68.2	30	-3.0	90.	30	41.	27	39.5	15.5	134.5	-75.5	2.052	30	-2.49	.78	22		
JAY TOWER	4567	3	71.3	21	*****	93.	29	46.	27	14.0	*****	147.0	*****	5.430	23	*****	2.75	17		
KANSAS 1 ESE	4672	3	69.4	30	-2.2	88.	15	46.	27	40.0	19.0	171.0	-48.0	5.317	30	-.12	4.10	16		
KEYSTONE DAM	4812	3	69.5	27	*****	94.	30	47.	26	24.0	*****	144.5	*****	2.092	30	-2.68	.75	16		
LENAPAH	5118	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.110	30	*****	.80	22		
MANNFORD 6 NW	5522	3	69.8	28	*****	89.	30	44.	23	27.5	*****	161.5	*****	2.300	28	*****	.97	16		
MARAMEC	5540	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.241	30	-2.45	1.39	22		
MIAMI	5855	3	67.1	30	-3.9	95.	15	37.	27	60.0	29.0	123.5	-87.5	4.060	30	-1.01	1.16	1		
NOWATA	6485	3	70.0	30	-2.4	90.	29	45.	27	31.0	11.0	180.5	-61.5	1.723	30	-3.63	.52	22		
PAWHUSKA	6935	3	69.7	30	-2.7	91.	29	45.	27	26.5	5.5	166.0	-74.0	2.911	30	-2.02	.95	22		
PAWNEE	6940	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.530	30	-3.51	.70	22		
PRYOR 6 N	7309	3	68.7	30	-2.5	90.	30	44.	28	37.5	8.5	149.0	-66.0	3.703	30	-1.05	1.32	1		
RALSTON	7390	3	70.0	30	-2.8	92.	29	45.	28	21.5	2.5	172.0	-81.0	.840	30	-3.83	.45	5		
RAMONA 4 N	7394	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.770	31	*****	.56	22		
SKIATOOK	8258	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.010	30	-1.84	1.05	16		
SPAVINAW	8380	3	71.9	30	-1.8	90.	30	47.	24	23.5	11.5	230.0	-43.0	3.443	30	-1.34	2.03	16		
TULSA WSO APT	8992	3	71.2	30	-2.1	91.	29	49.	24	26.0	6.0	212.5	-56.5	3.603	30	-1.10	1.84	15		
UPPER SPAVINAW	9101	3	69.7	29	*****	93.	14	44.	27	37.5	*****	174.5	*****	4.052	30	*****	2.88	16		
VINITA 2 N	9203	3	70.8	26	*****	89.	29	42.	27	10.0	*****	160.0	*****	3.810	27	*****	1.34	1		
WAGONER	9247	3	71.1	30	-2.3	90.	14	47.	24	24.0	10.0	206.5	-59.5	1.822	30	-2.74	.56	22		
WANN	9298	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.050	30	*****	.75	1		
WYONONA	9792	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.441	30	*****	.52	8		

SEPTEMBER 1994 SUMMARY FOR WEST CENTRAL DIVISION (CD4)

NAME	ID	CD	DEV						HEAT				COOL				DEV			
			MEAN	NUM	FROM	MAX	MIN	DAY	DEG	FROM	DEG	FROM	DEG	FROM	TOT	NUM	FROM	MAX	DAY	
TEMP	OBS	NORM	TEMP	DAY	TEMP	DAY	DAY	NORM	DAY	NORM	DAY	NORM	PPT	OBS	NORM	24-HR	DAY			
CANTON DAM	1445	4	69.2	30	-2.8	97.	30	38.	24	46.5	30.5	171.0	-52.0	.760	30	-2.42	.33	8		
CHEYENNE	1738	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.040	30	-1.92	.58	6		
CLINTON	1909	4	72.7	30	-1.2	96.	29	40.	24	22.5	9.5	254.5	-25.5	2.680	30	-1.05	1.00	5		
COLONY	2039	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.270	30	*****	.53	22		
CORDELL	2125	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.081	30	-2.53	.41	22		
ELK CITY 1 E	2849	4	72.8	30	.6	96.	28	39.	24	21.0	8.0	254.0	25.0	2.151	29	*****	.84	15		
ERICK 4 E	2944	4	72.9	30	.5	98.	28	38.	24	21.5	8.5	259.5	24.5	1.961	30	-1.26	1.10	8		
GEARY	3497	4	74.0	29	1.3	96.	30	46.	24	7.5	-8.5	269.5	22.5	2.800	30	-1.00	1.83	1		
HAMMON 1 NNE	3871	4	69.9	29	-1.4	96.	30	37.	24	37.5	13.5	179.5	-33.5	1.281	29	*****	.61	8		
LEEDEY	5090	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.250	30	-1.46	.75	8		
MACKIE 4 NNW	5463	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.260	30	*****	.72	8		
MORAVIA 2 NNE	6035	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.430	30	-2.98	.27	8		
OKEENE	6629	4	71.7	30	-2.0	97.	29	41.	26	27.5	14.5	227.5	-46.5	1.640	30	-2.05	1.36	1		
RETROP	7565	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.680	30	*****	.21	8		
REYDON	7579	4	76.3	30	5.5	99.	28	44.	24	10.5	-7.5	350.5	158.5	1.741	30	-1.29	1.30	8		
SAYRE	7952	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.060	30	-.98	1.34	15		
SWEETWATER 2 E	8652	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.421	30	*****	.80	8		
TALOGA	8708	4	71.8	30	-.3	96.	29	40.	24	26.5	12.5	231.0	4.0	1.304	30	-1.67	.70	8		
THOMAS	8815	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.600	30	*****	.60	15		
VICI	9172	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.680	30	-.96	.53	15		
WATONGA	9364	4	72.4	30	-.3	97.	29	40.	24	22.5	6.5	244.0	-3.0	1.192	30	-2.18	.60	1		
WEATHERFORD	9422	4	72.5	28	*****	95.	29	41.	23	15.5	*****	224.5	*****	1.590	28	*****	.90	4		

SEPTEMBER 1994 SUMMARY FOR CENTRAL DIVISION (CD5)

NAME	ID	CD	DEV							HEAT		DEV		COOL		DEV		TOT PPT	NUM OBS	FROM NORM	MAX 24-HR	DAY
			MEAN TEMP	NUM OBS	FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	DEG DAY	FROM NORM	DEG DAY	FROM NORM	DEG DAY	FROM NORM							
AMBER	200	5	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	2.660	30	*****	1.46	1				
ARCADIA	288	5	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	.700	30	*****	.70	23				
TINKER AFB	325	5	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	3.042	26	*****	1.05	8				
BLANCHARD 2 SSW	830	5	72.2	30	-1.8	95.	28	42.	24	21.5	10.5	238.5	-42.5	2.440	30	-1.72	1.10	1				
BRISTOW	1144	5	70.1	30	-2.9	92.	29	44.	23	27.0	8.0	180.0	-79.0	5.182	30	.54	2.11	22				
CHANDLER	1684	5	73.5	29	.2	95.	29	48.	24	13.5	-3.5	261.0	-5.0	5.301	29	*****	2.85	16				
CHICKASHA EX ST	1750	5	72.2	30	-1.4	95.	28	42.	24	27.0	15.0	244.0	-26.0	3.870	30	.07	2.05	1				
COX CITY 1 E	2196	5	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	2.960	30	*****	.65	1				
CRESCENT	2242	5	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	1.560	30	*****	.57	6				
CUSHING	2318	5	70.3	30	-2.2	92.	30	40.	24	31.0	16.0	191.0	-49.0	3.410	30	-.70	1.20	1				
EL RENO 1 N	2818	5	72.1	30	-.7	93.	29	42.	24	21.0	8.0	235.0	-12.0	2.370	30	-1.76	1.20	1				
GUTHRIE	3821	5	73.2	30	-1.0	96.	29	43.	24	18.5	4.5	263.5	-26.5	2.790	30	-1.52	.84	22				
HENNESSEY 4 ESE	4055	5	71.8	29	-1.4	98.	29	40.	24	22.5	10.5	221.0	-37.0	1.160	30	-2.90	.46	1				
INGALLS	4489	5	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	3.170	28	*****	1.50	9				
KINGFISHER 2 SE	4861	5	71.2	29	-2.7	95.	29	43.	24	27.0	17.0	207.5	-69.5	2.030	30	-2.09	1.18	5				
KONAWA	4915	5	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	5.200	30	.76	3.89	16				
MARSHALL	5589	5	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	1.520	30	-2.31	.46	6				
MEEKER 4 W	5779	5	72.4	22	*****	92.	30	44.	30	.5	*****	163.0	*****	3.991	22	*****	1.13	8				
MULHALL	6110	5	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	1.710	30	*****	.89	6				
NORMAN 3 S	6386	5	71.9	30	-2.1	95.	28	43.	24	29.5	19.5	236.5	-43.5	4.690	30	.60	1.77	9				
OILTON 2 SE	6616	5	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	3.940	30	*****	2.65	15				
OKEMAH	6638	5	74.1	30	.8	95.	29	50.	24	12.5	-2.5	285.5	21.5	2.620	30	-1.64	.79	22				
OKLAHOMA CTY WS	6661	5	70.7	30	-2.3	93.	29	43.	24	32.0	17.0	202.5	-52.5	1.651	30	-2.19	.57	15				
PERKINS	7003	5	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	2.380	30	-2.02	1.23	22				
PIEDMONT	7068	5	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	2.410	30	*****	.85	22				
PRAGUE	7264	5	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	3.770	30	-.71	1.10	5				
PURCELL 5 SW	7327	5	71.3	30	-2.9	93.	28	42.	25	27.0	14.0	215.5	-73.5	6.451	30	2.09	2.55	16				
SEMINOLE	8042	5	72.2	30	-2.6	93.	29	46.	24	19.0	10.0	235.0	-68.0	4.030	30	-.36	2.18	16				
SHAWNEE	8110	5	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	2.280	30	-1.94	1.20	22				
STILLWATER 2 W	8501	5	69.9	30	-2.2	93.	30	44.	23	28.5	11.5	175.0	-55.0	2.812	30	-1.48	1.26	16				
STROUD 1 N	8563	5	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	3.520	30	*****	1.33	22				
TECUMSEH	8751	5	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	.740	30	*****	.45	6				
TROUSDALE	8960	5	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	4.040	30	*****	1.91	14				
UNION CITY 1 SE	9086	5	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	3.000	29	*****	1.19	1				
WELTY 1 SSE	9479	5	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	4.172	30	*****	1.08	6				
WEWOKA	9575	5	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	2.841	30	-1.48	1.42	16				

SEPTEMBER 1994 SUMMARY FOR EAST CENTRAL DIVISION (CD6)

NAME	ID	CD	DEV							HEAT		DEV		COOL		DEV		TOT PPT	NUM OBS	FROM NORM	MAX 24-HR	DAY
			MEAN TEMP	NUM OBS	FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	DEG DAY	FROM NORM	DEG DAY	FROM NORM	DEG DAY	FROM NORM							
ASHLAND	364	6	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	2.430	30	*****	1.05	1				
BEGGS	631	6	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	3.760	30	*****	1.50	1				
BOYNTON	1027	6	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	4.811	30	*****	3.15	16				
CALVIN	1391	6	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	2.200	30	-2.24	.90	2				
CHECOTAH	1711	6	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	2.900	30	-1.98	.75	22				
CLAYTON 14 WNW	1858	6	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	2.450	30	*****	1.67	1				
DEWAR 2 NE	2485	6	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	4.360	30	-.18	2.00	16				
DUSTIN	2690	6	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	3.050	30	*****	1.23	16				
EUFULA	2993	6	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	2.380	30	-2.19	1.33	1				
HANNA	3884	6	70.7	30	-2.9	94.	29	41.	27	28.5	16.5	198.5	-71.5	4.480	30	-.10	1.97	1				
HASKELL	3956	6	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	4.302	30	-.09	2.29	16				
HOLDENVILLE	4235	6	71.6	30	-2.2	94.	28	43.	25	23.5	13.5	221.5	-52.5	3.390	30	-.68	1.23	16				
LAKE EUFAULA	4975	6	71.2	26	*****	97.	30	43.	23	27.5	*****	189.5	*****	.090	28	*****	.08	23				
LYONS 2 N	5437	6	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	1.470	30	-3.35	.77	16				
MARBLE CITY	5546	6	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	2.334	30	*****	1.12	6				
MCALESTER FAA	5664	6	73.0	29	-.7	95.	29	44.	23	24.0	8.0	255.0	-22.0	.981	29	*****	.37	22				
MCCURTAIN 1 SE	5693	6	72.4	30	-1.6	100.	29	43.	24	23.0	9.0	246.0	-38.0	1.184	30	-3.58	.60	1				
MUSKOGEE	6130	6	72.0	29	-1.5	92.	30	47.	25	15.0	.0	217.5	-52.5	3.610	30	-.90	2.00	16				
OKMULGEE W W	6670	6	69.5	30	-2.4	94.	31	44.	23	36.0	15.0	170.5	-57.5	2.350	30	-1.56	.64	1				
OKTAHA 2 NE	6678	6	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	6.770	30	*****	3.31	16				
SALLISAW 2 NE	7862	6	72.4	30	-1.4	95.	29	41.	26	27.5	16.5	250.5	-24.5	1.250	30	-3.26	.90	2				
SCIPPIO	7979	6	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	1.690	30	*****	.73	1				
SHORT	8170	6	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	.940	30	*****	.51	1				
STILWELL 1 NE	8506	6	68.6	30	-3.1	90.	29	42.	25	41.5	21.5	149.5	-71.5	1.900	30	-2.82	.52	16				
TAHLEQUAH	8677	6	70.1	30	-2.4	91.	30	45.	27	35.0	8.0	188.0	-64.0	5.071	30	.08	3.12	16				
WEBBERS FALLS	9445	6	70.9	30	-1.9	98.	30	44.	25	33.5	17.5	211.5	-38.5	1.670	30	-2.94	.50	22				
WESTVILLE	9523	6	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	.080	31	*****	.05	22				
WETUMKA 3 NE	9571	6	*****	0	*****	*****	0	****	0	*****	*****	*****	*****	3.050	30	-1.53	1.54	16				

SEPTEMBER 1994 SUMMARY FOR SOUTHWEST DIVISION (CD7)

NAME	ID	CD	DEV				MIN		DAY	HEAT		DEV		COOL		DEV		TOT	NUM	DEV	MAX	DAY
			MEAN	NUM	FROM	MAX	TEMP	DAY		DEG	DAY	FROM	DEG	DAY	FROM	NORM	FROM					
ALTUS IRR STA	179	7	74.2	30	-.9	99.	28	40.	24	20.0	14.0	297.0	-12.0	1.550	30	-1.89	.62	15				
ALTUS DAM	184	7	74.4	30	.4	99.	29	43.	25	23.5	15.5	306.0	28.0	1.370	30	-2.06	.75	6				
ANADARKO	224	7	71.8	30	-1.9	94.	30	40.	24	22.0	9.0	224.5	-49.5	2.580	30	-1.13	1.11	9				
APACHE	260	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.980	30	-1.77	.82	22				
ALTUS AFB	447	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.222	30	*****	.12	22				
CARNEGIE 2 ENE	1504	7	72.9	30	-1.0	96.	28	40.	24	20.5	8.5	258.0	-21.0	1.051	30	-2.98	.55	22				
CHATTANOOGA	1706	7	75.0	29	-.3	100.	29	39.	23	15.5	8.5	306.0	-10.0	.500	29	*****	.30	22				
DUNCAN 11 W	2668	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.463	30	*****	1.17	8				
FREDERICK	3353	7	74.0	30	-.5	98.	29	43.	24	21.5	14.5	291.5	-.5	1.270	30	-2.31	.50	15				
GRANDFIELD 4 NW	3709	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.520	30	-3.51	.20	15				
HEADRICK	3998	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.570	30	*****	.50	5				
HOBART FAA APT	4204	7	73.4	30	-.5	97.	29	41.	24	25.5	15.5	277.5	.5	1.342	30	-2.21	.65	22				
HOLLIS	4249	7	74.2	30	-.3	99.	29	40.	24	15.0	9.0	290.0	-1.0	.601	30	-2.53	.33	8				
LAWTON	5063	7	72.9	27	*****	97.	30	44.	24	20.5	*****	234.0	*****	1.810	28	*****	.64	3				
FORT SILL	5068	7	73.3	30	*****	97.	28	44.	24	21.0	*****	271.0	*****	1.284	30	*****	.47	21				
LOOKEBA 2 ENE	5329	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.942	30	-2.41	1.05	1				
MANGUM RES STA	5509	7	73.6	30	-1.1	98.	28	39.	23	22.0	16.0	281.0	-16.0	1.000	30	-2.38	.52	22				
RANDLETT 9 E	7403	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.300	30	*****	1.69	9				
ROOSEVELT	7727	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.750	30	-2.58	.35	15				
SEDAN	8016	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.690	30	*****	1.03	22				
SNYDER	8299	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.770	30	-1.80	.65	22				
VINSON 3 WNW	9212	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.750	30	-2.45	.41	8				
WALTERS	9278	7	73.9	30	-1.6	96.	29	42.	24	18.0	9.0	284.5	-39.5	2.350	30	-1.90	1.40	8				
WICHITA MT WLR	9629	7	71.2	30	-1.2	97.	29	39.	23	37.5	24.5	224.0	-11.0	2.370	30	-1.66	.75	6				
WILLOW	9668	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.920	30	*****	.58	22				

SEPTEMBER 1994 SUMMARY FOR SOUTH CENTRAL DIVISION (CD8)

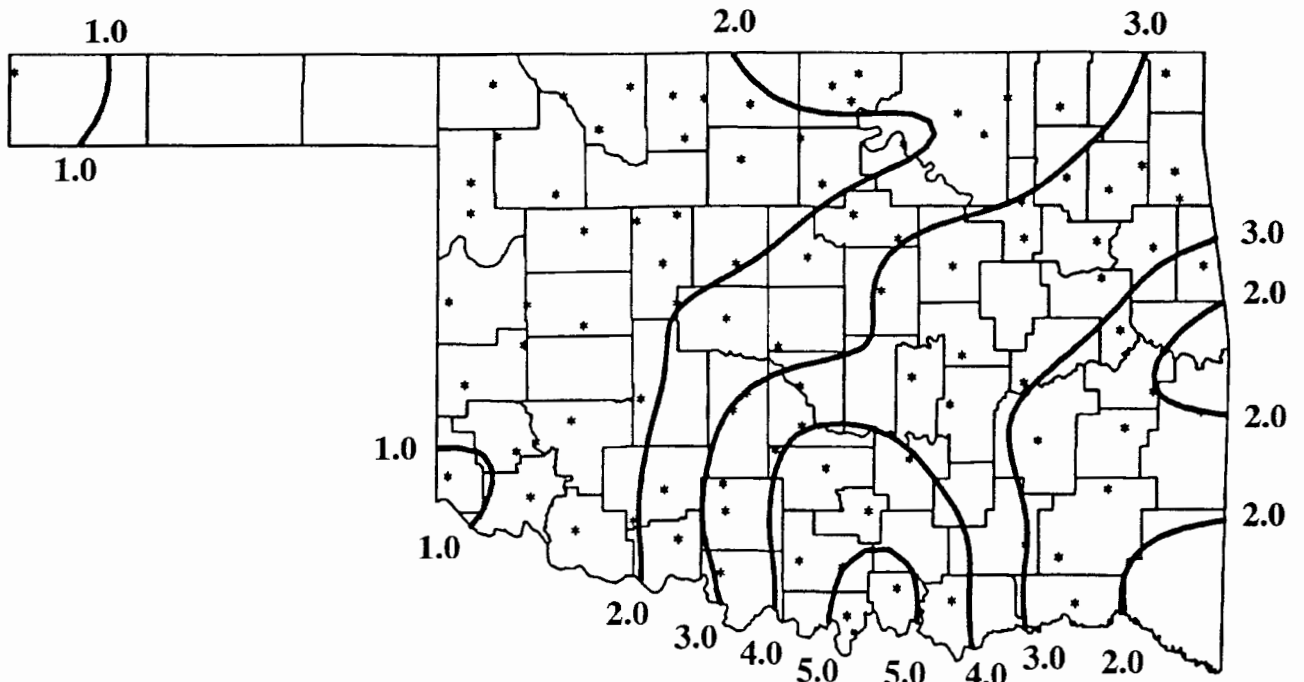
NAME	ID	CD	DEV				MIN		DAY	HEAT		DEV		COOL		DEV		TOT	NUM	DEV	MAX	DAY
			MEAN	NUM	FROM	MAX	TEMP	DAY		DEG	DAY	FROM	DEG	DAY	FROM	NORM	FROM					
ADA	17	8	71.1	30	-2.7	90.	29	45.	25	24.5	16.5	206.5	-65.5	5.031	30	.57	2.20	16				
ALLEN	147	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.370	30	*****	2.25	16				
ARDMORE	292	8	72.7	30	-3.5	92.	29	44.	24	22.5	17.5	253.5	-87.5	5.320	30	1.15	2.85	16				
ATOKA DAM	394	8	73.9	21	*****	96.	30	46.	26	12.5	*****	200.0	*****	4.300	21	*****	2.48	2				
BOKCHITO	917	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.950	30	*****	1.24	2				
CANEY	1437	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.710	30	*****	3.01	1				
CENTRAHOMA	1648	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.350	30	*****	.80	9				
CHICKASAW NRA	1745	8	72.8	30	-.8	94.	29	44.	25	26.0	12.0	258.5	-13.5	3.550	30	-1.09	2.12	16				
COLEMAN	2011	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.220	30	*****	.40	16				
COMANCHE	2054	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.040	30	1.56	2.77	1				
DAISY 4 ENE	2354	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.233	30	-3.33	.92	1				
DUNCAN	2660	8	72.2	30	-2.0	94.	30	42.	23	27.5	18.5	242.0	-43.0	4.140	30	-.27	1.08	1				
DURANT USDA	2678	8	72.5	30	-1.4	95.	30	46.	26	24.0	14.0	249.0	-28.0	2.640	30	-2.77	1.04	1				
ELMORE CITY	2872	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.560	30	*****	1.40	16				
FARRIS 3 WNW	3083	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.920	30	-2.95	1.28	1				
GRADY	3688	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.470	30	*****	2.30	15				
HEALDTON	4001	8	72.1	30	-2.6	93.	29	42.	24	28.0	20.0	240.5	-58.5	4.260	30	-.28	1.22	16				
HENNEPIN	4052	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.991	30	*****	1.89	16				
KETCHUM RANCH	4780	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.590	30	*****	1.20	8				
KINGSTON	4865	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.830	30	3.05	4.30	16				
LEHIGH	5108	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.903	30	*****	2.05	2				
LINDSAY 2 W	5216	8	71.6	30	-2.0	92.	29	42.	24	23.0	9.0	220.0	-52.0	3.531	30	-.78	1.23	16				
LOCO 6 SE	5247	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.550	30	*****	1.36	16				
MADILL	5468	8	72.0	30	-3.4	93.	21	42.	24	29.0	21.0	239.5	-80.5	7.950	30	3.13	3.30	14				
MARIETTA	5563	8	73.7	30	-1.7	93.	29	45.	24	21.0	13.0	281.5	-38.5	6.620	30	2.43	2.70	16				
MARLOW 1 WSW	5581	8	72.8	30	-.9	95.	29	40.	23	22.5	12.5	257.0	-14.0	4.270	30	-.06	1.90	9				
MCGEE CREEK DAM	5713	8	72.0	30	*****	96.	30	40.	23	32.5	*****	241.5	*****	2.461	30	*****	.97	1				
PAULS VALLEY	6926	8	72.2	30	-2.4	94.	28	42.	24	23.0	14.0	239.0	-58.0	5.400	30	1.35	2.27	16				
PONTOTOC	7214	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.480	30	1.48	3.54	15				
TISHOMINGO NWLR	8884	8	72.3	21	*****	95.	29	43.	23	16.5	*****	170.0	*****	6.520	30	1.61	2.90	9				
TUSSY	9032	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.562	30	*****	1.05	22				
WAURIKA	9395	8	74.2	30	-1.5	95.	29	49.	27	.0	.0	275.0	-51.0	2.101	30	-1.81	.80	8				
WAURIKA DAM	9399	8	73.6	27	*****	96.	30	41.	23	25.0	*****	258.0	*****	2.181	30	*****	1.12	9				

SEPTEMBER 1994 SUMMARY FOR SOUTHEAST DIVISION (CD9)

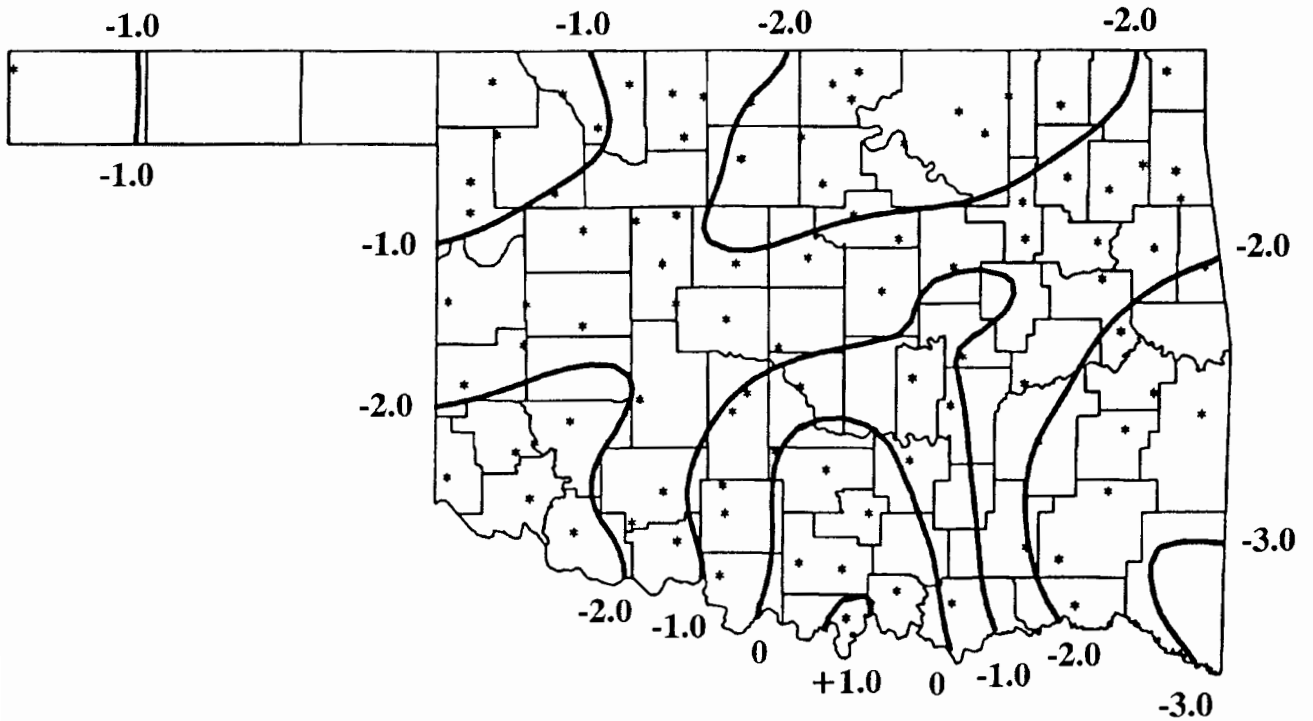
NAME	ID	CD	DEV						HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY	
			MEAN TEMP	NUM OBS	FROM NORM	MAX TEMP	MIN DAY	TEMP DAY										
ANTLERS	256	9	71.9	30	-2.2	96.	29	37.	23	30.0	20.0	236.5	-46.5	.050	28	*****	.05	2
BATTIEST 1 SSW	567	9	69.6	30	*****	94.	29	35.	23	38.0	*****	174.5	*****	2.310	30	*****	1.07	1
BEAR MT TWR	584	9	73.2	18	*****	97.	30	44.	25	18.5	*****	165.5	*****	1.880	30	-3.30	1.18	1
BENGAL	670	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.670	30	*****	2.19	1
BOSWELL 4 NNW	980	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.803	30	-2.67	1.29	1
BROKEN BOW 1 N	1162	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.590	30	-3.95	.29	22
BROKEN BOW DAM	1168	9	72.6	30	-1.1	97.	30	40.	24	29.5	21.5	256.0	-13.0	1.770	30	-2.94	1.42	1
CARTER TWR	1544	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.830	30	-1.96	1.56	1
FANSHAWE	3065	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.340	30	-1.34	2.57	1
HEAVENER 1 SE	4008	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.370	30	-1.20	2.64	1
HEE MT TWR	4017	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.860	30	-2.76	1.03	1
HUGO	4384	9	73.5	30	-1.7	96.	29	44.	24	21.5	15.5	277.5	-34.5	2.822	30	-1.71	1.45	1
IDABEL	4451	9	72.7	30	-1.2	97.	30	42.	24	30.0	22.0	260.0	-15.0	1.632	30	-2.56	.63	1
POTEAU W W	7254	9	71.3	30	*****	97.	30	42.	25	34.0	*****	222.0	*****	2.432	30	*****	.86	5
SMITHVILLE 1 W	8285	9	69.2	30	-2.6	94.	29	39.	25	34.0	13.0	161.0	-64.0	1.902	30	-2.67	.90	2
SPIRO	8416	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	.240	30	-3.80	.17	6
TUSKAHOMA	9023	9	72.0	30	-2.2	97.	29	38.	23	32.5	19.5	243.0	-46.0	1.880	30	-3.30	.77	2
VALLIANT 3 W	9118	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.220	30	-.75	2.22	1
WILBURTON 9 ENE9634	9	9	72.1	30	-.8	99.	29	40.	23	29.0	14.0	241.0	-11.0	.442	30	-4.45	.32	22

SEPTEMBER 1994 CLIMATE DIVISION SUMMARY

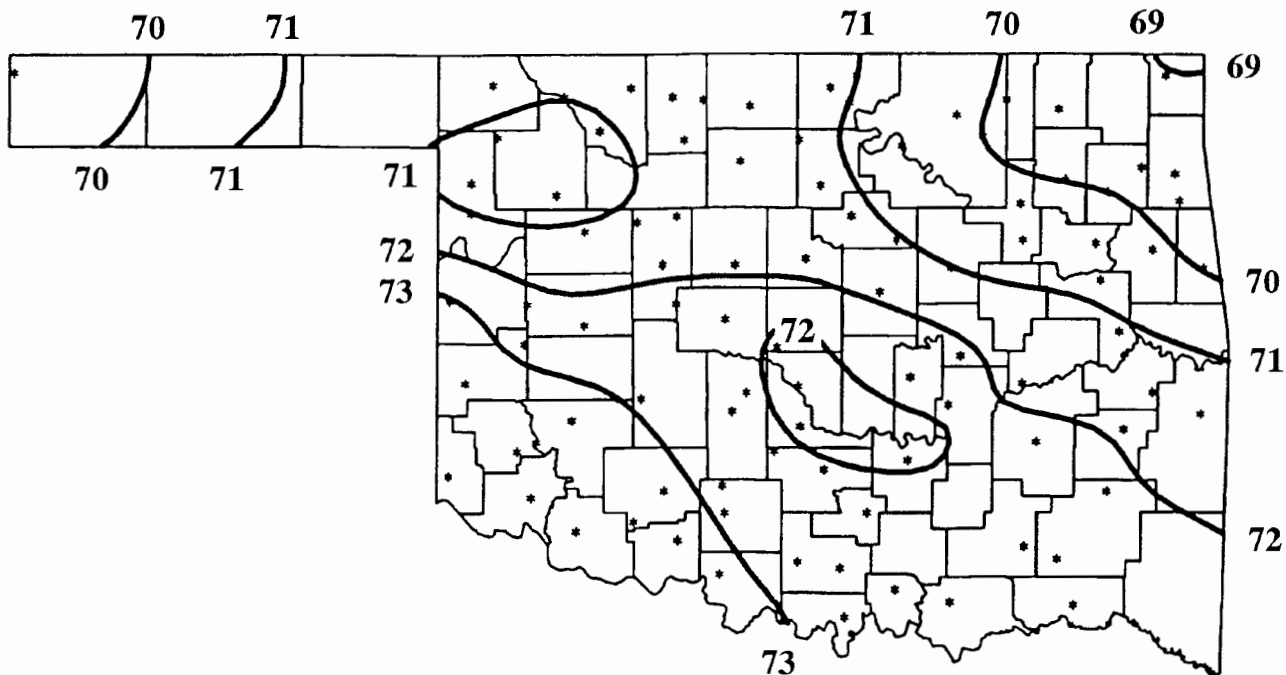
CLIMATE DIV	MEAN TEMP	NUM STA	DEV						HEAT DEGREE DAYS	DEV FROM NORM	COOL DEGREE DAYS	DEV FROM NORM	TOT PPT	NUM STA	DEV FROM NORM	MAX 24-HR	DAY
			FROM NORM	MAX TEMP	MIN DAY	TEMP DAY	MIN DAY	TEMP DAY									
1	69.6	11	-.2	102.0	29	35.0	24	43.5	14.9	180.0	9.7	1.25	13	-.83	1.56	1	
2	71.1	15	-1.4	100.0	29	33.0	23	29.7	13.5	213.0	-27.6	2.00	23	-1.42	2.58	15	
3	69.7	16	-2.5	95.0	15	37.0	27	32.5	10.9	173.7	-64.2	2.49	29	-2.38	4.10	16	
4	72.4	10	-.1	99.0	28	37.0	24	24.4	9.3	244.1	4.9	1.47	19	-1.80	1.83	1	
5	71.8	15	-1.6	98.0	29	40.0	24	23.8	10.3	226.1	-40.5	2.96	31	-1.25	3.89	16	
6	71.1	10	-2.2	100.0	29	41.0	26	28.8	13.1	210.9	-53.0	2.84	26	-1.73	3.31	16	
7	73.5	12	-.8	100.0	29	39.0	23	21.8	13.2	275.9	-11.0	1.46	23	-2.21	1.69	9	
8	72.4	13	-2.1	96.0	30	40.0	23	23.3	14.6	246.4	-50.0	4.18	32	-.38	4.30	16	
9	71.6	9	-2.2	99.0	29	35.0	23	30.9	20.1	230.2	-46.4	2.17	18	-2.50	2.64	1	



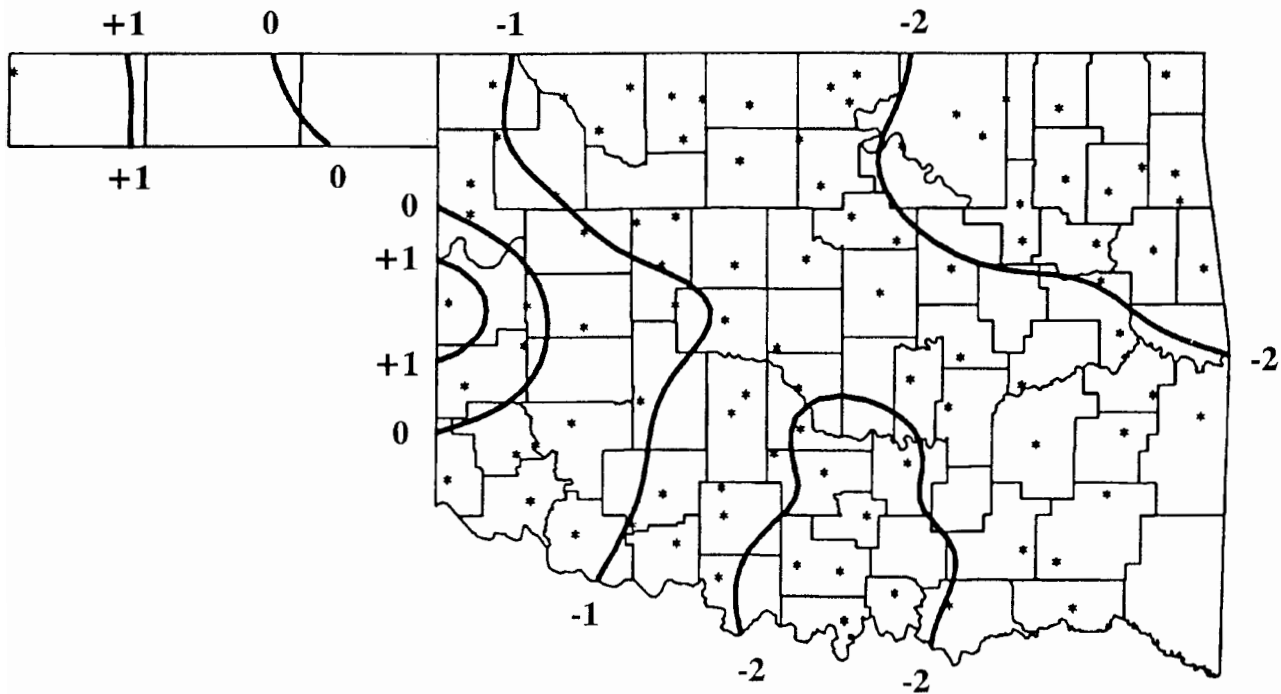
SEPTEMBER 1994 TOTAL PRECIPITATION
(Inches)



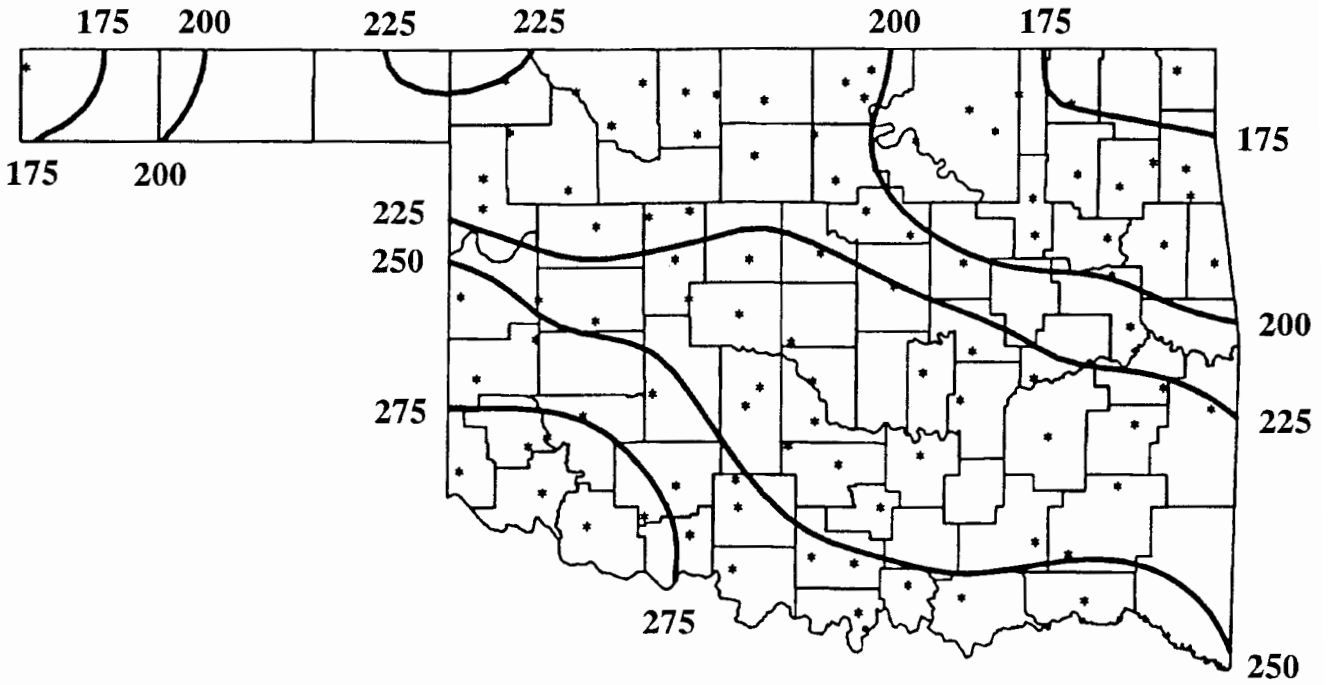
SEPTEMBER 1994 DEVIATION FROM NORMAL PRECIPITATION
(Inches)



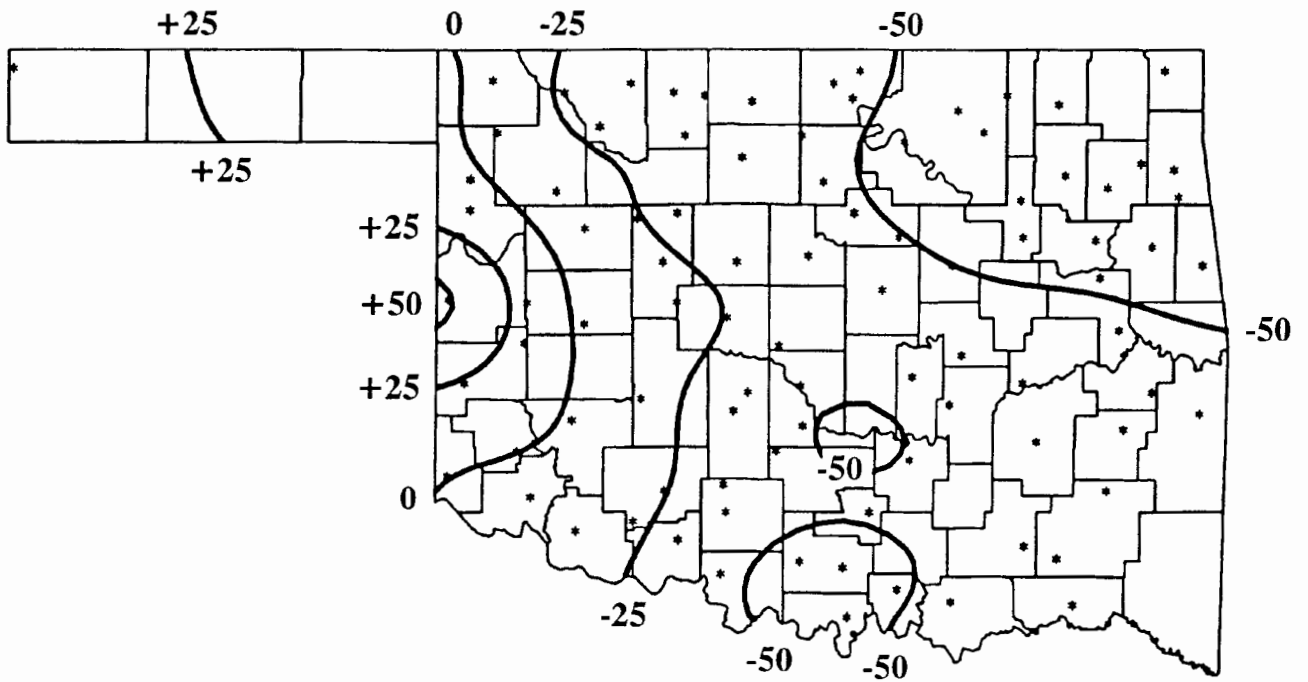
SEPTEMBER 1994 AVERAGE MONTHLY TEMPERATURES
(Degrees F)



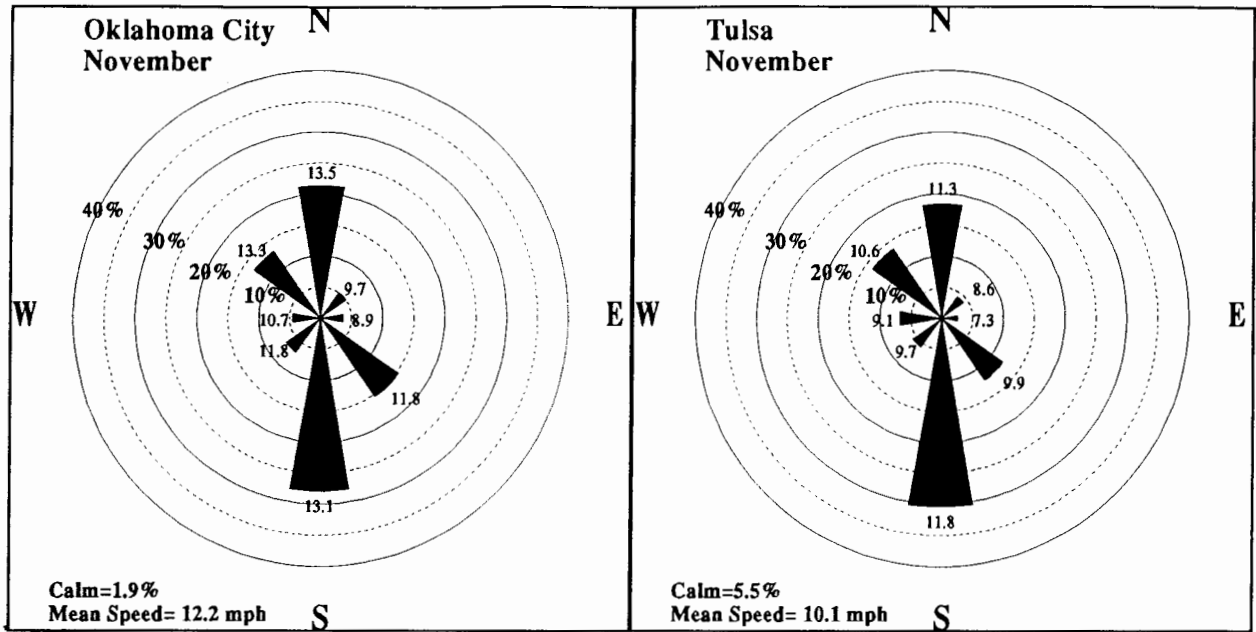
SEPTEMBER 1994 DEVIATION FROM NORMAL TEMPERATURES
(Degrees F)



SEPTEMBER 1994 COOLING DEGREE DAYS



SEPTEMBER 1994 DEVIATION FROM NORMAL COOLING DEGREE DAYS



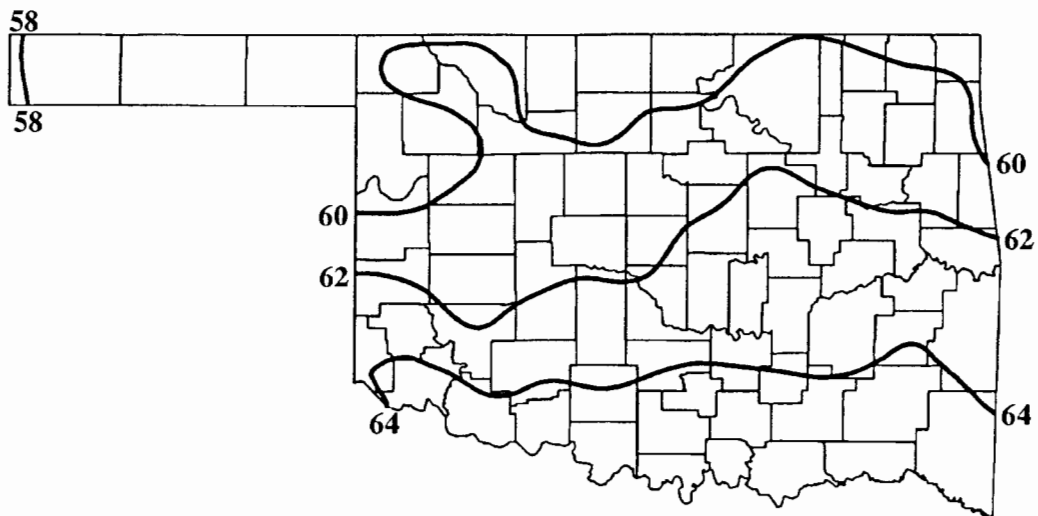
November Wind Roses for Oklahoma City and Tulsa. Percents represent the frequency of winds from each direction. The numbers at the ends of the bars indicate the average wind speed (miles per hour) from that direction.

NOVEMBER 1994 SUNRISE AND SUNSET

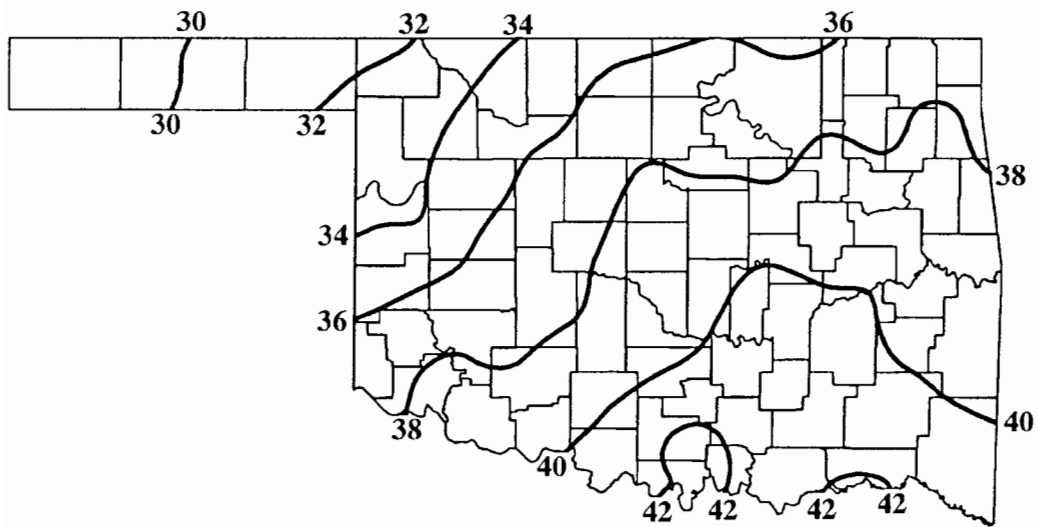
OKLAHOMA CITY

TULSA

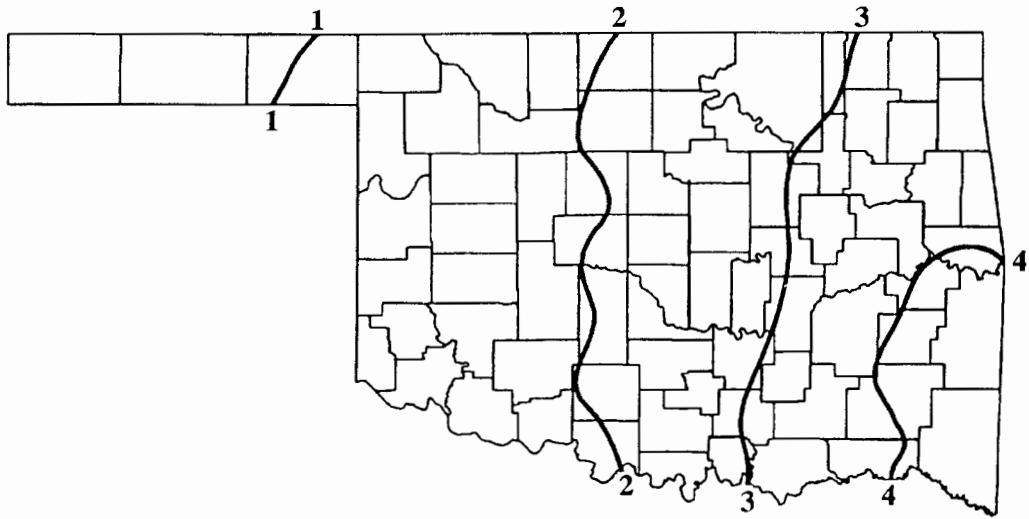
DATE	SUNRISE	SUNSET	DAYLIGHT	DATE	SUNRISE	SUNSET	DAYLIGHT
9411 1	6:51AM	5:38PM CST	10 hrs 47 mins	9411 1	6:45AM	5:30PM CST	10 hrs 45 mins
9411 2	6:52AM	5:37PM CST	10 hrs 45 mins	9411 2	6:46AM	5:29PM CST	10 hrs 43 mins
9411 3	6:52AM	5:36PM CST	10 hrs 43 mins	9411 3	6:47AM	5:28PM CST	10 hrs 41 mins
9411 4	6:53AM	5:35PM CST	10 hrs 41 mins	9411 4	6:48AM	5:27PM CST	10 hrs 39 mins
9411 5	6:54AM	5:34PM CST	10 hrs 39 mins	9411 5	6:49AM	5:26PM CST	10 hrs 37 mins
9411 6	6:55AM	5:33PM CST	10 hrs 38 mins	9411 6	6:50AM	5:25PM CST	10 hrs 35 mins
9411 7	6:56AM	5:32PM CST	10 hrs 36 mins	9411 7	6:51AM	5:24PM CST	10 hrs 33 mins
9411 8	6:57AM	5:31PM CST	10 hrs 34 mins	9411 8	6:52AM	5:23PM CST	10 hrs 31 mins
9411 9	6:58AM	5:31PM CST	10 hrs 32 mins	9411 9	6:53AM	5:23PM CST	10 hrs 30 mins
941110	6:59AM	5:30PM CST	10 hrs 31 mins	941110	6:54AM	5:22PM CST	10 hrs 28 mins
941111	7: 0AM	5:29PM CST	10 hrs 29 mins	941111	6:55AM	5:21PM CST	10 hrs 26 mins
941112	7: 1AM	5:29PM CST	10 hrs 27 mins	941112	6:56AM	5:20PM CST	10 hrs 24 mins
941113	7: 2AM	5:28PM CST	10 hrs 26 mins	941113	6:57AM	5:20PM CST	10 hrs 23 mins
941114	7: 3AM	5:27PM CST	10 hrs 24 mins	941114	6:58AM	5:19PM CST	10 hrs 21 mins
941115	7: 4AM	5:27PM CST	10 hrs 22 mins	941115	6:59AM	5:18PM CST	10 hrs 19 mins
941116	7: 5AM	5:26PM CST	10 hrs 21 mins	941116	7: 0AM	5:18PM CST	10 hrs 18 mins
941117	7: 6AM	5:25PM CST	10 hrs 19 mins	941117	7: 1AM	5:17PM CST	10 hrs 16 mins
941118	7: 7AM	5:25PM CST	10 hrs 18 mins	941118	7: 2AM	5:17PM CST	10 hrs 15 mins
941119	7: 8AM	5:24PM CST	10 hrs 16 mins	941119	7: 3AM	5:16PM CST	10 hrs 13 mins
941120	7: 9AM	5:24PM CST	10 hrs 15 mins	941120	7: 4AM	5:16PM CST	10 hrs 12 mins
941121	7:10AM	5:24PM CST	10 hrs 13 mins	941121	7: 5AM	5:15PM CST	10 hrs 10 mins
941122	7:11AM	5:23PM CST	10 hrs 12 mins	941122	7: 6AM	5:15PM CST	10 hrs 9 mins
941123	7:12AM	5:23PM CST	10 hrs 11 mins	941123	7: 7AM	5:14PM CST	10 hrs 7 mins
941124	7:13AM	5:22PM CST	10 hrs 9 mins	941124	7: 8AM	5:14PM CST	10 hrs 6 mins
941125	7:14AM	5:22PM CST	10 hrs 8 mins	941125	7: 9AM	5:14PM CST	10 hrs 5 mins
941126	7:15AM	5:22PM CST	10 hrs 7 mins	941126	7:10AM	5:13PM CST	10 hrs 3 mins
941127	7:16AM	5:22PM CST	10 hrs 6 mins	941127	7:11AM	5:13PM CST	10 hrs 2 mins
941128	7:17AM	5:21PM CST	10 hrs 5 mins	941128	7:12AM	5:13PM CST	10 hrs 1 mins
941129	7:18AM	5:21PM CST	10 hrs 4 mins	941129	7:13AM	5:12PM CST	10 hrs 0 mins
941130	7:18AM	5:21PM CST	10 hrs 2 mins	941130	7:13AM	5:12PM CST	9 hrs 59 mins



November Normal Daily Maximum Temperatures (°F)



November Normal Daily Minimum Temperatures (°F)



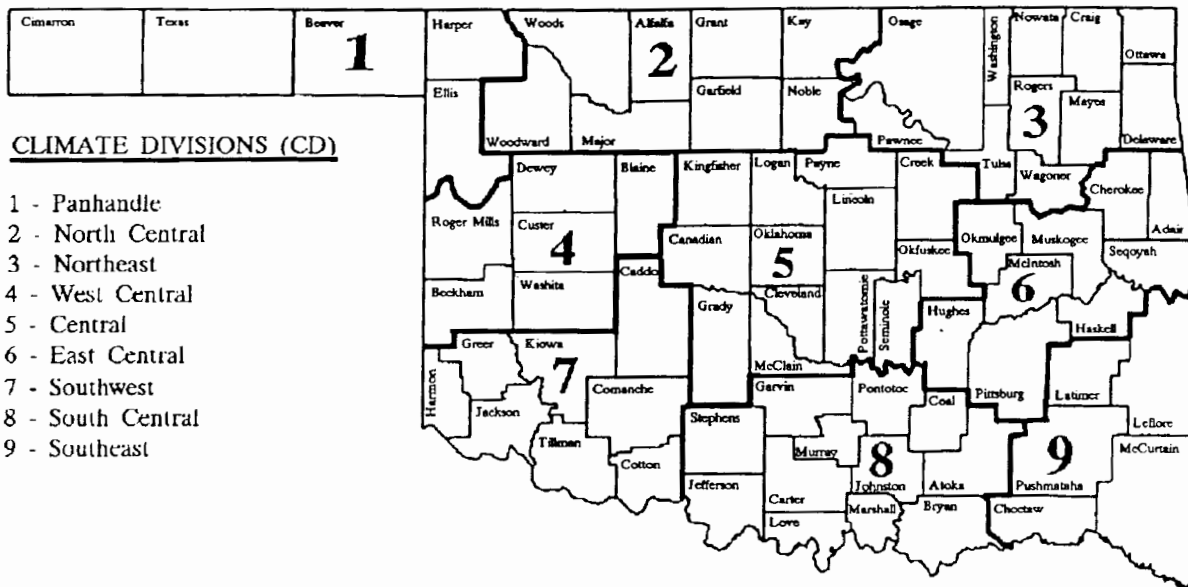
November Normal Monthly Precipitation (inches)

90-DAY NATIONAL WEATHER SERVICE OUTLOOK

(OCTOBER-DECEMBER 1994)

Precipitation - Above Normal Statewide

Temperature - Below Normal Statewide



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 1994

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 Lowest Max Lowest Min Highest Min Greatest ppt	89-1916 25-1991 28-1912 65-1926 1.05-1981	63.4 max 42.6 min .09 ppt 12 hdd 0 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	83-1924 26-1991 19-1991 56-1938 1.51-1974	62.1 max 40.8 min .10 ppt 14 hdd 0 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	84-1909 35-1991 11-1991 61-1959 1.51-1964	63.2 max 41.1 min .10 ppt 13 hdd 0 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	89-1921 40-1990 23-1936 58-1916 2.17-1986	62.0 max 41.3 min .05 ppt 13 hdd 0 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	87-1891 34-1951 23-1951 64-1924 1.09-1946	63.4 max 41.4 min .04 ppt 13 hdd 0 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	85-1990 39-1959 20-1959 63-1945 2.14-1895	63.4 max 41.3 min .02 ppt 13 hdd 0 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	86-1980 41-1953 23-1993 62-1916 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 Lowest Max Lowest Min Highest Min Greatest ppt	87-1980 39-1935 19-1991 66-1966 1.42-1895	62.7 max 39.8 min .02 ppt 14 hdd 0 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	82-1986 37-1950 25-1955 61-1939 1.15-1977	62.7 max 38.6 min .02 ppt 15 hdd 0 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	81-1980 33-1950 20-1950 60-1982 1.17-1937	63.9 max 39.7 min .06 ppt 13 hdd 0 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	79-1910 29-1940 14-1911 62-1902 1.18-1922	63.9 max 39.7 min .06 ppt 13 hdd 0 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	79-1910 29-1940 14-1911 62-1902 1.18-1922	64.4 max 40.3 min .06 ppt 13 hdd 0 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	80-1967 28-1986 12-1940 61-1980 3.22-1909	62.1 max 41.3 min .05 ppt 14 hdd 0 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	79-1973 29-1940 14-1916 65-1897 1.58-1924
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 .11 ppt 14 hdd 0 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	84-1903 32-1932 15-1940 61-1971 2.43-1890	58.5 max 38.9 min .03 ppt 17 hdd 0 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	82-1941 31-1937 14-1932 64-1958 3.94-1931	59.0 max 36.6 min .08 ppt 17 hdd 0 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	80-1996 30-1903 9-1894 61-1896 1.70-1984	58.4 max 38.1 min .06 ppt 17 hdd 0 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	80-1930 35-1903 13-1903 64-1934 2.14-1899	59.7 max 37.1 min .11 ppt 17 hdd 0 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	82-1898 31-1937 18-1937 63-1913 4.46-1899	59.0 max 35.5 min .05 ppt 18 hdd 0 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	78-1889 25-1906 19-1937 60-1990 1.74-1979	58.8 max 35.7 min .02 ppt 18 hdd 0 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	80-1927 29-1925 14-1898 60-1902 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 Lowest Max Lowest Min Highest Min Greatest ppt	78-1982 27-1898 15-1898 60-1966 1.54-1931	57.6 max 34.6 min .03 ppt 19 hdd 0 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	79-1973 29-1895 19-1950 60-1966 1.62-1931	56.2 max 35.1 min .08 ppt 19 hdd 0 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	84-1965 32-1918 15-1950 60-1966 1.14-1973	60.5 max 37.7 min .07 ppt 16 hdd 0 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	84-1965 28-1993 15-1993 62-1966 2.01-1940	57.9 max 36.0 min .13 ppt 18 hdd 0 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	81-1910 31-1992 13-1993 62-1990 1.80-1982	51.6 max 32.0 min .06 ppt 23 hdd 0 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	82-1905 26-1896 16-1976 63-1927 1.90-1908	49.5 max 29.9 min .01 ppt 25 hdd 0 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	81-1949 26-1911 14-1896 58-1927 1.44-1908
Normal 29	Actual	Normal 30	Actual	NOVEMBER AVERAGES									
53.0 max 30.0 min .01 ppt 24 hdd 0 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	80-1927 28-1997 11-1911 64-1933 .61-1930	54.5 max 31.9 min .02 ppt 22 hdd 0 cdd Highest Max Lowest Max Lowest Min Highest Min Greatest ppt	74-1946 32-1896 13-1975 60-1933 .72-1909	TEMPERATURE : 49.0°F PRECIPITATION : 1.68" HEATING DEGREE DAYS : 485 COOLING DEGREE DAYS : 1									

TULSA CLIMATE CALENDAR

November 1994

The data on this calendar are for Tulsa. Normal values are calculated for the period 1948-1992. Temperatures extremes are for the period 1905-1993; precipitation extremes are for the period 1948-1993.

<p>Normal 1 Actual</p> <p>59.0 max 46.0 min .09 ppt 8 hdd 1 cdd</p> <p>Highest Max 85-1916 Lowest Max 37-1951 Lowest Min 25-1991 Highest Min 64-1987 Greatest ppt 1.27-1984</p>	<p>Normal 2 Actual</p> <p>65.0 max 44.0 min .17 ppt 11 hdd 0 cdd</p> <p>Highest Max 89-1909 Lowest Max 27-1991 Lowest Min 20-1966 Highest Min 65-1983 Greatest ppt 2.82-1974</p>	<p>Normal 3 Actual</p> <p>63.0 max 41.0 min .17 ppt 13 hdd 1 cdd</p> <p>Highest Max 88-1909 Lowest Max 36-1991 Lowest Min 16-1991 Highest Min 67-1983 Greatest ppt 3.20-1974</p>	<p>Normal 4 Actual</p> <p>64.0 max 42.0 min .08 ppt 12 hdd 0 cdd</p> <p>Highest Max 86-1914 Lowest Max 39-1951 Lowest Min 21-1991 Highest Min 60-1987 Greatest ppt 1.25-1986</p>	<p>Normal 5 Actual</p> <p>62.0 max 41.0 min .12 ppt 13 hdd 0 cdd</p> <p>Highest Max 87-1914 Lowest Max 34-1951 Lowest Min 25-1976 Highest Min 60-1966 Greatest ppt 32-1957</p>	<p>Normal 6 Actual</p> <p>62.0 max 41.0 min .06 ppt 14 hdd 0 cdd</p> <p>Highest Max 87-1945 Lowest Max 39-1959 Lowest Min 20-1959 Highest Min 60-1965 Greatest ppt 90-1964</p>	<p>Normal 7 Actual</p> <p>63.0 max 41.0 min .03 ppt 13 hdd 0 cdd</p> <p>Highest Max 85-1980 Lowest Max 41-1991 Lowest Min 22-1991 Highest Min 60-1966 Greatest ppt 63-1967</p>
<p>Normal 8 Actual</p> <p>64.0 max 43.0 min .09 ppt 12 hdd 0 cdd</p> <p>Highest Max 84-1980 Lowest Max 41-1991 Lowest Min 16-1991 Highest Min 67-1966 Greatest ppt 1.45-1977</p>	<p>Normal 9 Actual</p> <p>63.0 max 40.0 min .13 ppt 13 hdd 0 cdd</p> <p>Highest Max 82-1934 Lowest Max 42-1950 Lowest Min 23-1955 Highest Min 58-1984 Greatest ppt .55-1974</p>	<p>Normal 10 Actual</p> <p>63.0 max 39.0 min .06 ppt 14 hdd 0 cdd</p> <p>Highest Max 83-1949 Lowest Max 37-1950 Lowest Min 21-1950 Highest Min 62-1949 Greatest ppt .63-1986</p>	<p>Normal 11 Actual</p> <p>62.0 max 39.0 min .03 ppt 14 hdd 0 cdd</p> <p>Highest Max 85-1989 Lowest Max 31-1986 Lowest Min 17-1950 Highest Min 60-1949 Greatest ppt 1.57-1992</p>	<p>Normal 12 Actual</p> <p>63.0 max 40.0 min .09 ppt 13 hdd 0 cdd</p> <p>Highest Max 80-1989 Lowest Max 34-1986 Lowest Min 15-1911 Highest Min 62-1951 Greatest ppt 2.64-1972</p>	<p>Normal 13 Actual</p> <p>65.0 max 39.0 min .07 ppt 13 hdd 0 cdd</p> <p>Highest Max 84-1910 Lowest Max 30-1966 Lowest Min 12-1940 Highest Min 62-1989 Greatest ppt 1.80-1986</p>	<p>Normal 14 Actual</p> <p>62.0 max 41.0 min .06 ppt 14 hdd 0 cdd</p> <p>Highest Max 79-1989 Lowest Max 33-1959 Lowest Min 13-1916 Highest Min 62-1968 Greatest ppt 1.08-1978</p>
<p>Normal 15 Actual</p> <p>63.0 max 42.0 min .25 ppt 13 hdd 0 cdd</p> <p>Highest Max 82-1950 Lowest Max 38-1976 Lowest Min 11-1940 Highest Min 63-1964 Greatest ppt 2.50-1964</p>	<p>Normal 16 Actual</p> <p>61.0 max 40.0 min .06 ppt 15 hdd 0 cdd</p> <p>Highest Max 83-1953 Lowest Max 37-1955 Lowest Min 14-1922 Highest Min 65-1958 Greatest ppt 1.49-1978</p>	<p>Normal 17 Actual</p> <p>60.0 max 39.0 min .14 ppt 16 hdd 0 cdd</p> <p>Highest Max 80-1989 Lowest Max 32-1959 Lowest Min 11-1959 Highest Min 55-1975 Greatest ppt 1.24-1952</p>	<p>Normal 18 Actual</p> <p>58.0 max 39.0 min .09 ppt 16 hdd 0 cdd</p> <p>Highest Max 82-1930 Lowest Max 37-1972 Lowest Min 19-1951 Highest Min 60-1985 Greatest ppt 1.26-1964</p>	<p>Normal 19 Actual</p> <p>60.0 max 38.0 min .17 ppt 16 hdd 0 cdd</p> <p>Highest Max 81-1908 Lowest Max 35-1972 Lowest Min 14-1937 Highest Min 61-1979 Greatest ppt 1.65-1963</p>	<p>Normal 20 Actual</p> <p>58.0 max 36.0 min .20 ppt 18 hdd 0 cdd</p> <p>Highest Max 81-1989 Lowest Max 38-1972 Lowest Min 16-1937 Highest Min 62-1979 Greatest ppt 4.59-1979</p>	<p>Normal 21 Actual</p> <p>58.0 max 35.0 min .03 ppt 18 hdd 0 cdd</p> <p>Highest Max 79-1927 Lowest Max 34-1964 Lowest Min 18-1964 Highest Min 53-1966 Greatest ppt 70-1961</p>
<p>Normal 22 Actual</p> <p>59.0 max 37.0 min .07 ppt 17 hdd 0 cdd</p> <p>Highest Max 79-1966 Lowest Max 38-1971 Lowest Min 16-1920 Highest Min 62-1966 Greatest ppt .90-1982</p>	<p>Normal 23 Actual</p> <p>58.0 max 35.0 min .02 ppt 18 hdd 0 cdd</p> <p>Highest Max 78-1974 Lowest Max 33-1970 Lowest Min 17-1970 Highest Min 63-1966 Greatest ppt .35-1952</p>	<p>Normal 24 Actual</p> <p>56.0 max 35.0 min .16 ppt 20 hdd 0 cdd</p> <p>Highest Max 80-1965 Lowest Max 36-1950 Lowest Min 14-1950 Highest Min 61-1966 Greatest ppt 2.54-1973</p>	<p>Normal 25 Actual</p> <p>60.0 max 37.0 min .07 ppt 16 hdd 0 cdd</p> <p>Highest Max 84-1965 Lowest Max 31-1993 Lowest Min 17-1950 Highest Min 61-1966 Greatest ppt 1.03-1986</p>	<p>Normal 26 Actual</p> <p>57.0 max 36.0 min .11 ppt 18 hdd 0 cdd</p> <p>Highest Max 83-1965 Lowest Max 30-1975 Lowest Min 14-1963 Highest Min 55-1990 Greatest ppt 1.56-1982</p>	<p>Normal 27 Actual</p> <p>52.0 max 33.0 min .08 ppt 23 hdd 0 cdd</p> <p>Highest Max 77-1927 Lowest Max 35-1985 Lowest Min 16-1938 Highest Min 56-1960 Greatest ppt 1.13-1982</p>	<p>Normal 28 Actual</p> <p>50.0 max 31.0 min .03 ppt 25 hdd 0 cdd</p> <p>Highest Max 81-1949 Lowest Max 28-1976 Lowest Min 13-1976 Highest Min 60-1991 Greatest ppt 53-1968</p>
<p>Normal 29 Actual</p> <p>53.0 max 30.0 min .05 ppt 23 hdd 0 cdd</p> <p>Highest Max 82-1927 Lowest Max 36-1979 Lowest Min 10-1976 Highest Min 54-1975 Greatest ppt 1.08-1975</p>	<p>Normal 30 Actual</p> <p>54.0 max 31.0 min .03 ppt 23 hdd 0 cdd</p> <p>Highest Max 76-1933 Lowest Max 33-1974 Lowest Min 13-1964 Highest Min 55-1970 Greatest ppt .73-1981</p>	<p>NOVEMBER AVERAGES</p> <p>TEMPERATURE : 49.3°F</p> <p>PRECIPITATION : 2.62"</p> <p>HEATING DEGREE DAYS : 472</p> <p>COOLING DEGREE DAYS : 2</p>				