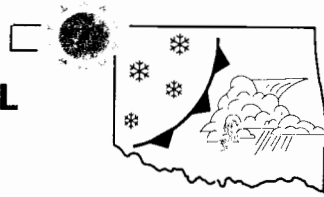


**OKLAHOMA
CLIMATOLOGICAL
SURVEY**



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**OKLAHOMA
REVISED
MONTHLY SUMMARY
NOVEMBER 1997**

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MONTHLY SUMMARY FOR NOVEMBER 1997

Oklahoma's statewide-averaged precipitation and temperature were both lower than normal in November. The average station received 1.72 inches of precipitation during the month, 0.70 inch less than normal, to rank this as the 46th driest November since 1892. Daily temperatures averaged 46 degrees across the state, 3.8 degrees lower than normal, to give 1997 the 14th coolest November on record.

Overall September through November statistics show that the state experienced a relatively cool, dry autumn. The statewide-averaged autumn temperature of 60.7 degrees, 0.9 degree lower than normal, ranks this as the 31st coolest autumn over a 106-year period. Accumulated precipitation, averaged across the state, for the three-month period was 8.83 inches which, although it was 0.60 inch less than normal, was the 50th greatest autumn precipitation recorded. Through eleven months, 1997 is the 28th wettest (35.78 inches of precipitation, 3.20 inches greater than normal) and the 13th coolest (61.2 degrees, 1.0 degree lower than normal) year in the state's recorded weather history.

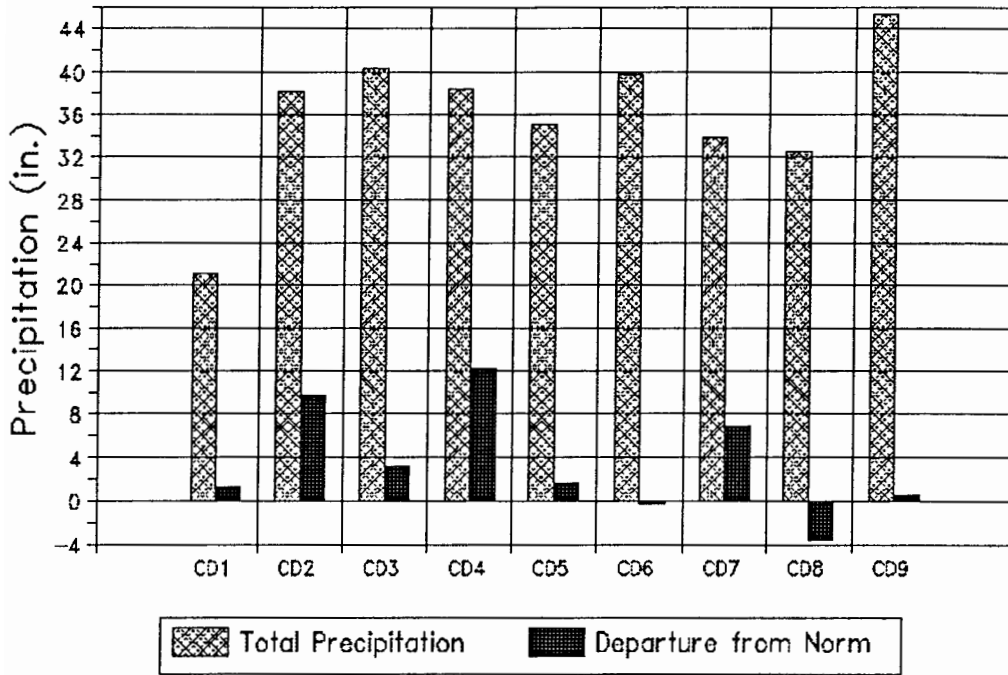
Mild, dry weather dominated the state through the first week of November, although the dry was interrupted by early morning thunderstorms in eastern Oklahoma that produced hail in many areas and some heavy rains in the southeast, including 4.40 inches at Smithville (McCurtain County) and 2.48 inches at Cloudy Mesonet (Pushmataha).

Snow reached the Panhandle on the 9th with Boise City (Cimarron) reporting 2 inches. Heavier snow was reported in the northwest on the 11th and 12th, including 4.5 inches at Gate (Beaver), 4 inches at Kenton (Cimarron), 3.5 inches at Freedom (Woods), 3.1 inches at Guymon (Texas) and 3 inches at Boise City. A major intrusion of cold air poured into the state on the 14th and 15th. Snowfall reports included 4 inches each at Boise City and Range (Texas) on the 15th. Parts of southern Oklahoma received some light snow on the 15th, including reports of one inch at both Randlett (Cotton) and Hugo (Choctaw). Sub-freezing temperatures spread across the state on the 15th with Kenton and Boise City reporting single-digit daily minimum temperatures. On the 16th, Kenton Mesonet (Cimarron) recorded a low temperature of 7 degrees.

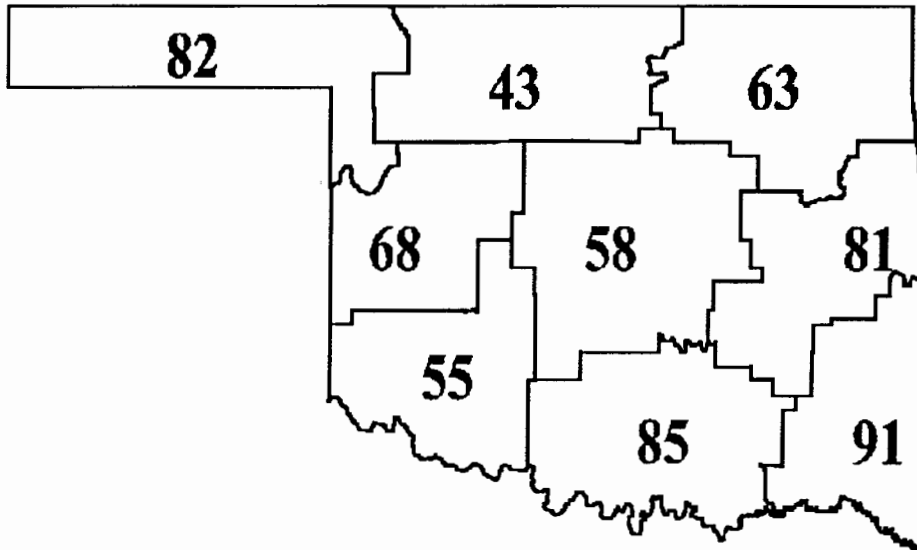
Mild weather returned for the remainder of the month, with daytime temperatures reaching the mid-70s across southern Oklahoma in the days just prior to Thanksgiving. Locally heavy rains fell in eastern Oklahoma on Thanksgiving Day (28th). Haskell (Muskogee) reported 2.76 inches of precipitation and 2.25 inches of rain fell at Westville and Stilwell (both in Adair County). Additional reporting stations recording over two inches of rain on the 28th were Miami (Ottawa), Dewar (Okmulgee), Broken Bow Mesonet (McCurtain), and Webbers Falls Mesonet (Muskogee).

Howard L. Johnson

CD Averaged Precipitation January through November 1997



CD PERCENT OF NORMAL PRECIPITATION NOVEMBER 1997



NOVEMBER 1997 SUMMARY FOR PANHANDLE DIVISION (CD1)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
ARNETT	332	1	42.6	30	-3.1	82	1	15	17	672	93	0	0	0.950	30	-0.48	0.45	28
BEAVER	593	1	41.3	30	-2.9	79	1	10	16	712	88	0	0	0.080	30	-0.94	0.06	12
BOISE CITY	908	1	41.8	30	-3	75	1	9	16	698	89	0	0	0.840	30	0.12	0.40	14
FARGO	3070	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.472	30	1.17	2.05	12
GAGE	3407	1	42.7	28	*****	75	4	11	16	624	*****	0	*****	0.443	28	*****	0.16	13
GATE	3489	1	43.0	30	-2.5	79	1	16	16	660	75	0	0	0.921	30	-0.18	0.52	28
GOODWELL	3628	1	43.0	30	-0.8	82	1	11	15	662	26	0	0	*****	0	*****	*****	0
GUYMON	3835	1	41.4	30	*****	75	4	13	17	709	*****	0	*****	0.000	28	*****	0.00	30
KENTON	4766	1	40.7	30	-2.6	72	7	8	16	728	77	0	0	0.424	30	-0.19	0.23	14
LAVERNE	5045	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.513	30	-0.66	0.30	12
REGNIER	7534	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.171	30	-0.39	0.12	14

NOVEMBER 1997 SUMMARY FOR NORTH CENTRAL DIVISION (CD2)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
VANCE AFB	302	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.713	28	*****	0.40	13
BILLINGS	755	2	44.3	30	-3.1	76	1	15	16	622	94	0	0	0.632	30	-1.64	0.40	14
BLACKWELL 2E	818	2	44.3	30	-3.3	75	1	18	17	622	100	0	0	0.501	30	-1.78	0.16	10
BRAMAN	1075	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.082	29	*****	0.74	28
CEDARDALE	1620	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.851	30	*****	0.56	28
CHEROKEE	1724	2	45.4	28	*****	81	1	18	16	548	*****	0	*****	0.000	28	*****	0.00	30
ENID	2912	2	44.0	30	-4.6	72	4	17	16	630	138	0	0	0.990	30	-1.22	0.27	14
FT SUPPLY	3304	2	48.0	10	*****	74	26	23	24	170	*****	0	*****	0.150	10	*****	0.15	28
FREEDOM	3358	2	43.3	28	*****	82	1	15	11	609	*****	0	*****	0.660	30	-0.69	0.33	28
HARDY	3909	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.751	30	*****	0.32	28
HELENA	4019	2	44.9	30	-1.1	80	1	19	16	603	33	0	0	1.003	30	-0.81	0.55	28
JEFFERSON	4573	2	46.2	30	-1.8	75	4	16	16	566	56	0	0	0.752	30	-1.43	0.34	27
LAMONT	5013	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.680	30	*****	0.20	28
MEDFORD	5768	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.040	30	*****	0.52	27
MORRISON	6065	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.931	30	*****	0.40	10
MUTUAL	6139	2	44.0	30	-2.2	82	1	16	16	630	66	0	0	0.830	30	-0.57	0.40	28
NEWKIRK	6278	2	43.6	30	-4.4	74	1	16	17	643	133	0	0	1.013	30	-1.40	0.53	28
ORIENTA	6751	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.831	30	-0.89	0.40	14
PERRY	7012	2	46.4	28	*****	78	2	18	16	521	*****	0	*****	0.971	28	*****	0.42	10
PONCA CITY	7201	2	47.0	29	-0.3	76	4	18	16	521	-10	0	0	0.582	29	*****	0.22	13
RED ROCK	7505	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.890	30	-1.20	0.32	10
WOODWARD	9760	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.461	30	-0.91	0.27	28

NOVEMBER 1997 SUMMARY FOR CENTRAL DIVISION (CD5)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
AMBER	200	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.270	30	*****	0.55	10
ARCADIA	288	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.970	30	*****	0.34	13
BLANCHARD	830	5	47.5	30	-3.7	73	4	19	16	525	111	0	0	0.982	30	-1.12	0.50	10
BRISTOW	1144	5	47.0	30	-3.5	73	1	17	16	539	99	0	-5	1.120	30	-1.77	0.35	10
CHICKASHA EXP	1750	5	47.9	30	-2.9	74	4	18	16	514	88	0	0	0.740	30	-1.21	0.27	15
COX CITY	2196	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.490	30	*****	0.57	28
CRESCENT	2242	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.600	30	*****	0.32	14
EL RENO	2818	5	49.5	30	0.6	74	4	25	16	464	-19	0	0	1.010	30	-0.74	0.38	14
GUTHRIE	3821	5	46.5	28	*****	74	5	14	16	519	*****	0	*****	0.500	29	*****	0.40	10
HENNESSEY	4055	5	45.0	30	-3.7	70	4	19	16	601	112	0	0	0.730	30	-1.21	0.36	14
INGALLS	4489	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.940	30	*****	0.36	10
KINGFISHER	4861	5	45.6	30	-4	79	1	17	16	582	120	0	0	0.850	30	-1.06	0.40	14
KONAWA	4915	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.850	30	-0.88	0.76	13
MARSHALL	5589	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.790	30	-1.12	0.37	14
MEEKER	5779	5	46.9	30	-3.5	77	5	18	16	544	106	0	0	1.200	30	-1.36	0.34	9
MULHALL	6110	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	0.970	30	*****	0.41	10
NORMAN NWS	6386	5	46.0	30	-5.1	71	4	18	16	571	154	0	0	2.512	30	0.03	1.26	28
OKEMAH	6638	5	49.2	30	-2	73	4	25	16	475	61	0	0	2.371	30	-0.57	0.87	29
OKLAHOMA CTY	F.6659	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.093	27	*****	0.46	10
OKLAHOMA CTY	6661	5	46.5	30	-3.1	72	4	19	16	557	95	0	0	0.265	30	-1.72	0.13	13
PERKINS	7003	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.040	30	-1.40	0.32	10
PIEDMONT	7068	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.030	30	*****	0.43	14
PRAGUE	7264	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.832	30	-0.84	0.59	10
PURCELL	7327	5	45.6	30	-5.3	78	1	15	17	582	159	0	0	2.590	30	0.09	1.10	28
SEMINOLE	8042	5	46.4	30	-5.9	71	4	19	16	559	174	0	0	1.470	30	-1.45	1.15	28
STELLA	8479	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.912	30	*****	0.78	10
STILLWATER	8501	5	45.8	30	-2.7	78	1	18	16	575	80	0	0	0.912	30	-1.34	0.37	10
STROUD	8563	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.490	30	*****	0.40	28
TECUMSEH	8751	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.020	30	*****	1.40	14
TROUSDALE	8960	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.360	30	*****	0.58	29
UNION CITY	9086	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.163	30	-1.14	0.41	10
WELTY	9479	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.090	30	*****	0.78	10
WEWOKA	9575	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.970	30	-0.82	0.72	29

NOVEMBER 1997 SUMMARY FOR EAST CENTRAL DIVISION (CD6)

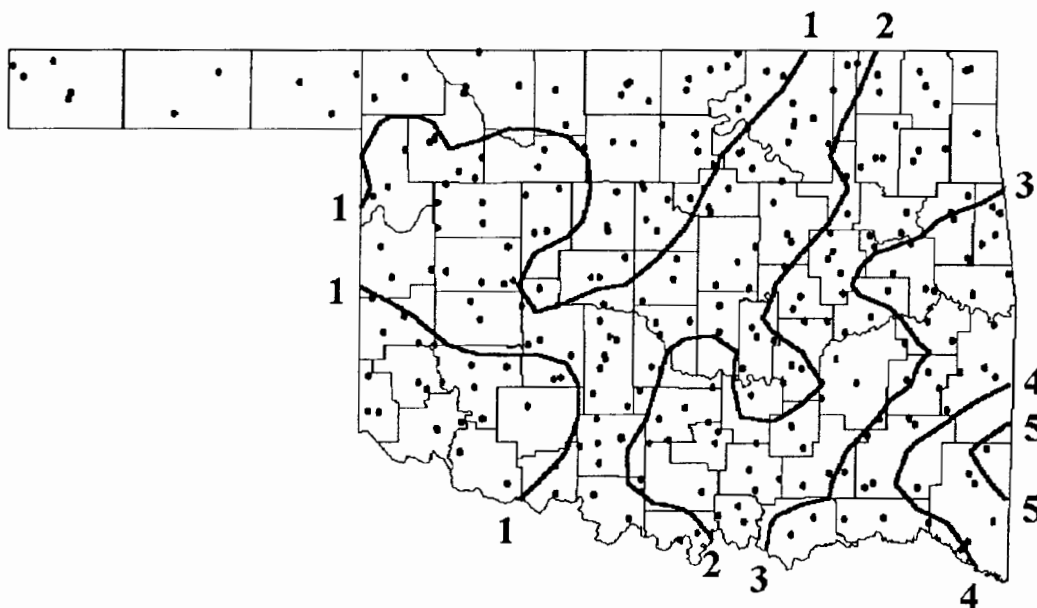
NAME	ID	CD	MEAN TEMP	NUM OBS	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
ASHLAND	364	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.683	30	*****	0.55	29
BEGGS	631	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.840	30	*****	0.72	29
CALVIN	1391	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.700	30	-1.27	0.75	29
CHECOTAH	1711	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.041	30	-0.27	1.12	29
CLAYTON	1858	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.910	30	*****	1.20	29
DEWAR	2485	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.751	30	0.65	2.02	29
DUSTIN	2690	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.660	30	*****	1.23	29
EUFULA	2993	6	48.5	28	*****	69	27	26	17	462	*****	0	*****	2.690	28	*****	1.24	29
HANNA	3884	6	47.0	30	-4.7	71	27	19	17	539	140	0	0	1.781	30	-1.68	0.45	29
HASKELL	3956	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.720	30	0.23	2.76	29
LAKE EUFAULA	4975	6	46.8	28	*****	71	28	26	17	510	*****	0	*****	2.642	28	*****	1.04	29
LYONS	5437	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.862	30	0.09	1.88	29
MARBLE CITY	5546	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.360	30	*****	1.40	29
MCALESTER	5664	6	47.9	25	*****	70	4	19	16	428	*****	0	*****	1.152	26	*****	0.74	29
MCCURTAIN	5693	6	47.8	30	-4.9	70	27	11	17	515	140	0	-6	2.871	30	-1.49	0.85	29
MUSKOGEE	6130	6	47.6	30	-3.3	71	27	22	16	523	96	0	0	2.740	30	-0.81	0.76	9
OKMULGEE	6670	6	45.9	28	*****	78	1	17	17	534	*****	0	*****	3.480	29	*****	1.74	29
OKTAHA	6678	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.830	30	*****	0.77	29
QUINTON	7372	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.520	30	-1.22	1.00	28
SALLISAW	7862	6	47.3	30	-4.3	74	1	21	17	532	130	0	0	2.740	30	-1.37	0.90	29
SCIPIO	7979	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.960	30	*****	0.48	29
SCRAPER	7993	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.300	30	*****	0.90	28
SHORT	8170	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.250	30	*****	1.60	29
STILWELL	8506	6	46.1	30	-3.9	67	26	17	16	567	117	0	0	4.680	30	0.90	2.25	29
TAHLEQUAH	8677	6	46.3	30	-3.9	68	27	18	16	562	113	0	-5	3.742	30	0.16	1.75	29
WEBBERS FALL	9445	6	47.1	30	-3.1	76	1	20	16	536	92	0	0	3.090	30	-0.28	1.27	29
WESTVILLE	9523	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.780	30	*****	2.25	29
WETUMKA	9571	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.740	30	-0.47	0.88	29

NOVEMBER 1997 SUMMARY FOR SOUTHEAST DIVISION (CD9)

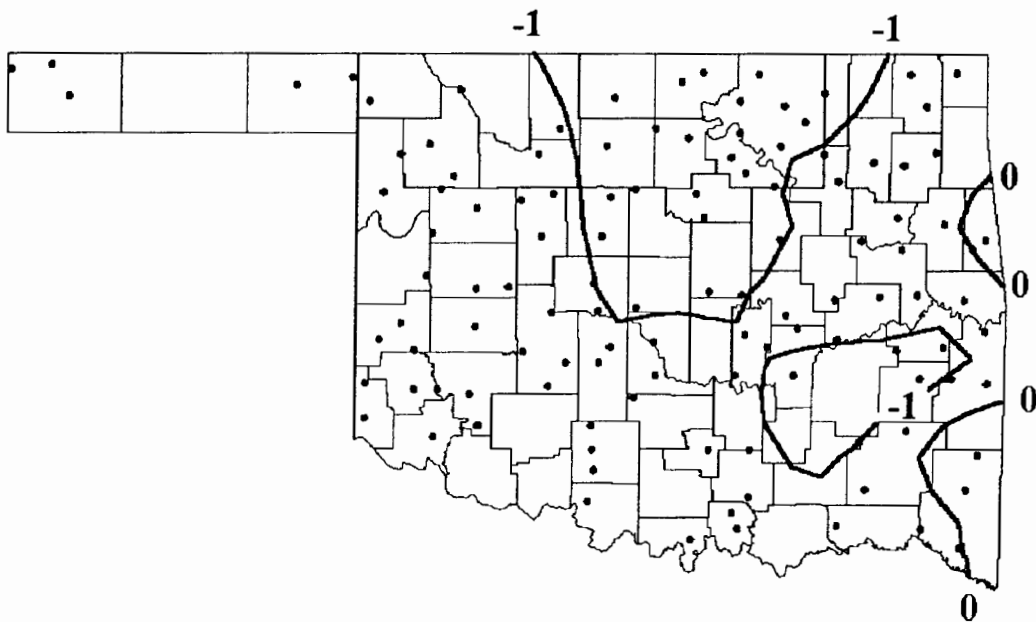
NAME	ID	CD	MEAN TEMP	NUM OBS	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
ANTLERS	256	9	49.2	30	-3.8	78	1	20	17	476	110	1	-6	3.800	30	0.07	1.50	28
BATTIEST	567	9	43.9	22	*****	73	28	17	18	464	*****	0	*****	1.320	22	*****	0.55	13
BENGAL	670	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.040	30	*****	1.29	29
BOSWELL	980	9	48.6	30	-4.7	78	1	20	18	493	134	1	-8	2.200	30	-1.45	0.54	13
BROKEN BOW	1162	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.590	29	*****	1.02	5
CARNASAW	1499	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.251	30	0.77	2.05	5
CARTER TWR	1544	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.010	30	-0.27	1.73	3
FANSHAWE	3065	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.900	30	-1.61	0.70	29
HEAVENER	4008	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.700	30	-1.59	0.79	13
HUGO	4384	9	49.1	30	-5.2	73	27	24	16	477	147	0	-9	3.841	30	-0.11	1.80	28
IDABEL	4451	9	49.6	30	-2.9	80	1	21	17	465	85	3	-2	4.172	30	0.07	1.18	5
PAGE	6842	9	45.5	28	*****	71	1	16	17	547	*****	0	*****	3.481	29	*****	1.08	19
SMITHVILLE	8285	9	46.1	27	*****	74	26	15	17	510	*****	0	*****	7.303	30	2.92	4.40	5
SPIRO	8416	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.200	30	-0.22	2.00	29
TUSKAHOMA	9023	9	47.8	30	-5.1	74	26	17	17	515	146	0	-6	3.890	30	-0.24	1.56	29
VALLIANT	9118	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.470	30	-0.69	0.89	5
WILBURTON	9634	9	47.9	30	-3.4	71	27	17	17	512	97	0	0	2.861	30	-1.43	1.44	28
WISTER	9724	9	47.1	18	*****	70	2	19	18	322	*****	0	*****	2.780	25	*****	0.79	29

NOVEMBER 1997 CLIMATE DIVISION SUMMARY

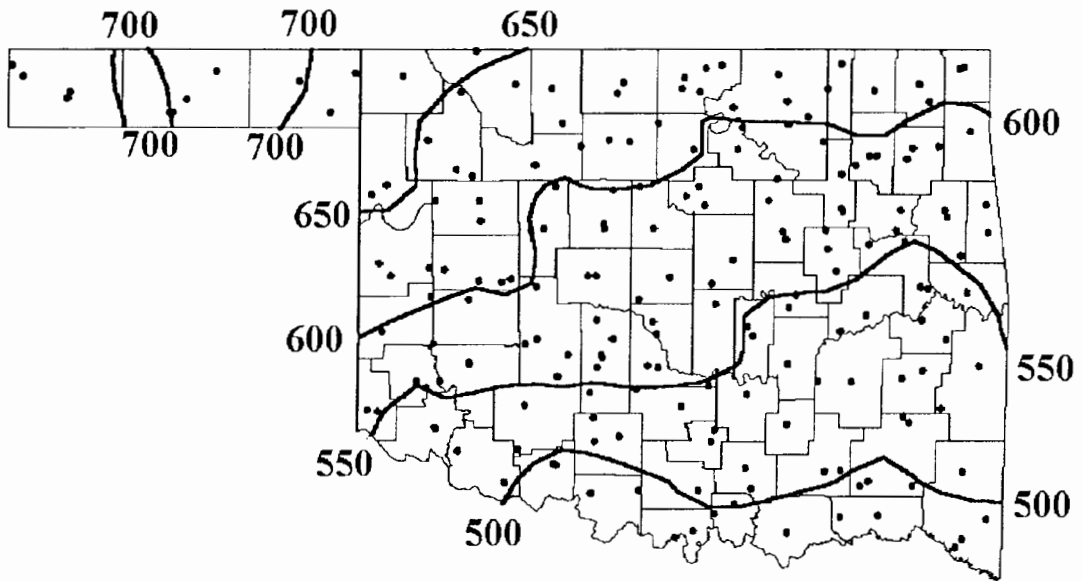
CD	MEAN TEMP	NUM STA	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEG DAYS	DEV FROM NORM	COOL DEG DAYS	DEV FROM NORM	TOT PPT	NUM STA	DEV FROM NORM	MAX 24-HR	DAY
1	42	7	-2.9	82	1	8	16	691.3	87	0	0	0.8	8	-0.17	2.05	12
2	44.8	8	-2.7	82	1	15	11	604.5	77.7	0	0	0.8	16	-1.08	0.74	28
3	45.7	13	-3.5	77	1	15	16	576.6	102.4	0	0	1.97	23	-1.14	2.05	29
4	44.7	9	-3.6	85	1	14	16	605.8	103.2	0	0	1.1	16	-0.52	1.01	10
5	46.8	13	-3.5	79	1	14	16	545	103.6	0	-0.3	1.37	31	-0.99	1.4	14
6	47	7	-4.1	78	1	11	17	538.9	120.1	0	-2.3	2.86	24	-0.67	2.76	29
7	46.7	9	-4	82	1	15	17	543.2	112.4	0.1	0.1	0.86	16	-0.7	0.62	13
8	47.7	9	-4.8	79	3	15	16	515	134.5	0.2	-3.2	2.24	25	-0.41	1.9	9
9	48.7	6	-3.9	80	1	15	17	489.5	111.6	0.7	-4.2	3.83	14	-0.36	4.4	5



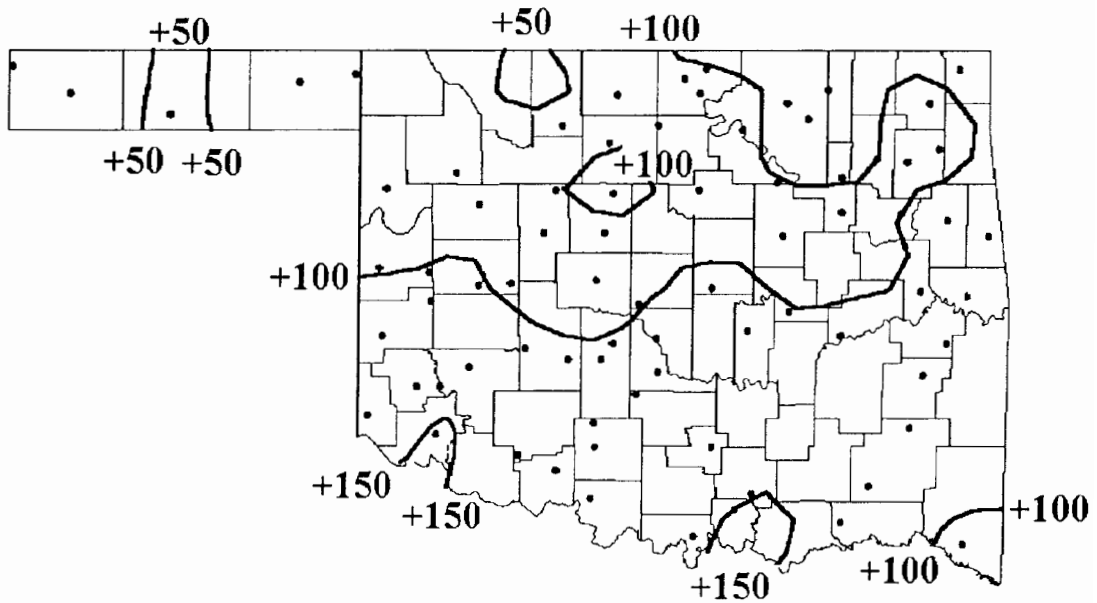
NOVEMBER 1997 TOTAL PRECIPITATION
(INCHES)



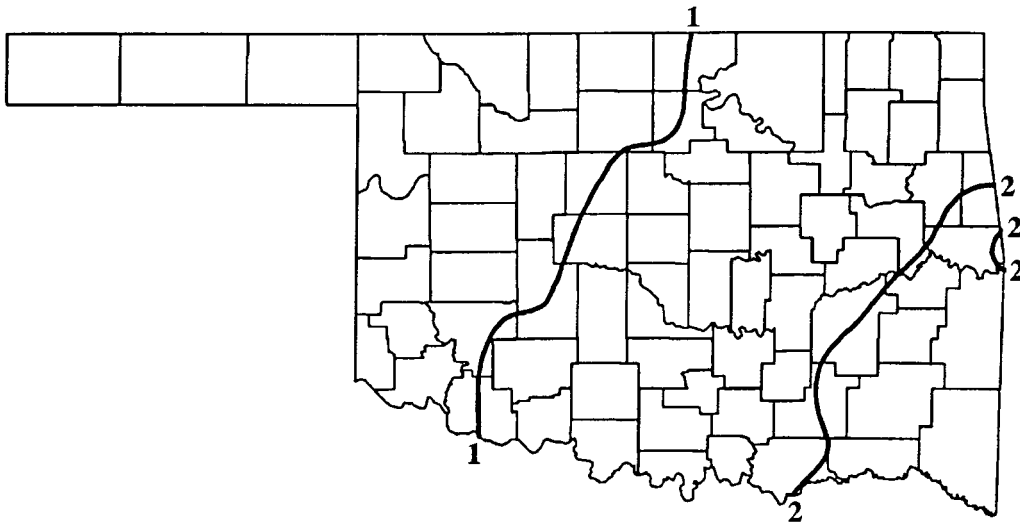
NOVEMBER 1997 DEPARTURE FROM NORMAL PRECIPITATION
(INCHES)



NOVEMBER 1997 ACCUMULATED HEATING DEGREE DAYS
(°F)



NOVEMBER 1997 DEPARTURE FROM NORMAL HEATING DEGREE DAYS
(°F)



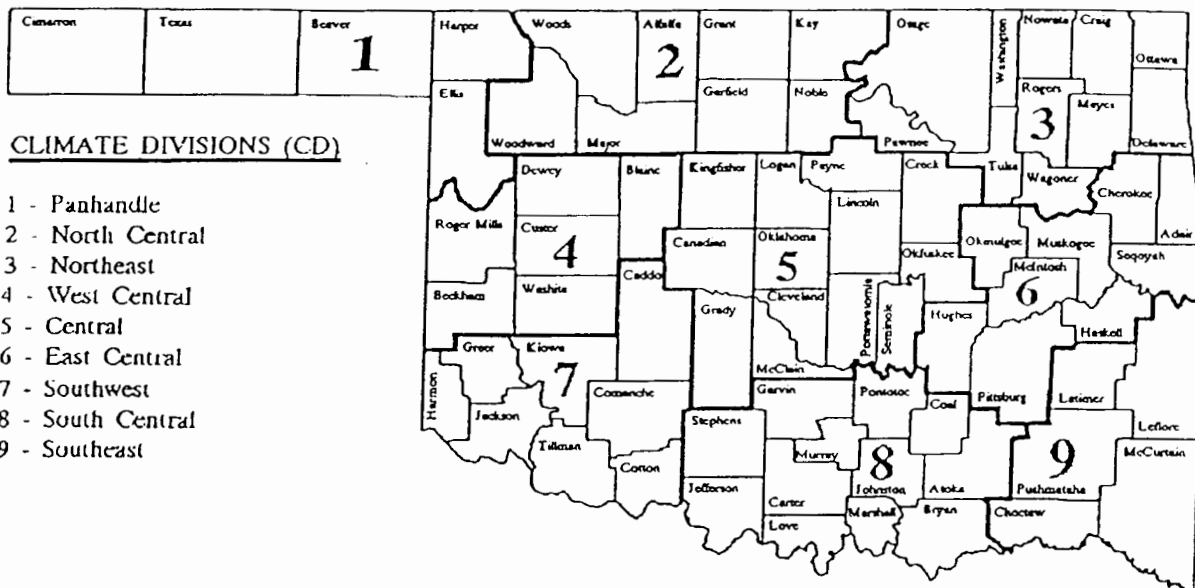
JANUARY NORMAL MONTHLY PRECIPITATION (inches)

OUTLOOK FOR JANUARY THROUGH MARCH 1998

BASED ON SEASONAL OUTLOOKS PROVIDED BY THE CLIMATE PREDICTION CENTER

TEMPERATURE: Near Normal Statewide

**PRECIPITATION: Greater Than Normal Western Two-Thirds
Near Normal Elsewhere**



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:

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

OKLAHOMA CITY CLIMATE CALENDAR

JANUARY

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	Actual	Normal	Actual	Normal	Actual	Normal	Actual	Normal	Actual	Normal	Actual	Normal	Actual	Normal	Actual	Normal	Actual
49.5 28.5 2.02 0 0	Max Min PPT RPT CDD	47.1 27.4 0.07 28 0	Max Min PPT RPT CDD	45.6 25.0 0.06 30 0	Max Min PPT RPT CDD	43.8 25.2 0.02 31 0	Max Min PPT RPT CDD	46.8 26.5 0.05 28 0	Max Min PPT RPT CDD	44.1 22.7 0.01 32 0	Max Min PPT RPT CDD	46.5 26.1 0.08 30 0	Max Min PPT RPT CDD	47.8 25.1 0.02 29 0	Max Min PPT RPT CDD	44.9 24.2 0.01 30 0	Max Min PPT RPT CDD
7-1910	Highest Max	7-1904	Highest Max	7-1939	Highest Max	7-1927	Highest Max	7-1927	Highest Max	7-1911	Highest Max	7-1925	Highest Max	68-1921	Highest Max	7-1905	Highest Max
13-1979	Lowest Max	13-1911	Lowest Max	10-1919	Lowest Max	11-1959	Lowest Max	18-1924	Lowest Max	18-1924	Lowest Max	14-1909	Lowest Max	14-1909	Lowest Max	15-1913	Lowest Max
61-1900	Highest Min	66-1950	Highest Min	6-1911	Lowest Min	7-1947	Lowest Min	2-1959	Lowest Min	2-1912	Lowest Min	4-1946	Lowest Min	52-1907	Highest Min	3-1912	Lowest Min
65-1992	Greatest ppt	1.01-1951	Greatest ppt	1.00-1908	Greatest ppt	1.81-1932	Greatest ppt	1.00-1902	Greatest ppt	1.00-1902	Greatest ppt	1.02-1934	Greatest ppt	1.02-1934	Greatest ppt	1.02-1934	Greatest ppt
Normal	Actual	Normal	Actual	Normal	Actual	Normal	Actual	Normal	Actual	Normal	Actual	Normal	Actual	Normal	Actual	Normal	Actual
49.2 28.5 0.02 28 0	Max Min PPT RPT CDD	44.8 23.9 0.02 31 0	Max Min PPT RPT CDD	42.6 22.7 0.02 32 0	Max Min PPT RPT CDD	44.1 22.0 0.01 32 0	Max Min PPT RPT CDD	46.5 26.1 0.08 30 0	Max Min PPT RPT CDD	47.0 25.3 0.01 29 0	Max Min PPT RPT CDD	47.8 25.3 0.03 29 0	Max Min PPT RPT CDD	45.9 25.0 0.02 30 0	Max Min PPT RPT CDD	48.9 26.3 0.02 28 0	Max Min PPT RPT CDD
7-1923	Highest Max	7-1902	Highest Max	7-1990	Highest Max	7-1911	Highest Max	7-1911	Highest Max	7-1925	Highest Max	7-1925	Highest Max	7-1909	Highest Max	7-1928	Highest Max
11-1997	Lowest Max	6-1977	Lowest Max	13-1902	Lowest Max	2-1919	Lowest Max	6-1912	Lowest Max	11-1905	Lowest Max	4-1916	Lowest Max	11-1905	Lowest Max	12-1905	Lowest Max
4-1988	Lowest Min	2-1977	Lowest Min	3-1977	Lowest Min	7-1918	Lowest Min	7-1918	Lowest Min	5-1960	Lowest Min	5-1960	Lowest Min	5-1960	Lowest Min	1-1905	Lowest Min
4-1949	Highest Min	4-1949	Highest Min	47-1928	Highest Min	5-1998	Highest Min	5-1998	Highest Min	5-1998	Highest Min	5-1998	Highest Min	5-1998	Highest Min	5-1998	Highest Min
1-45-1995	Greatest ppt	57-1907	Greatest ppt	4-1996	Greatest ppt	1.10-1916	Greatest ppt	7-1927	Greatest ppt	7-1927	Greatest ppt	7-1927	Greatest ppt	7-1927	Greatest ppt	4-1999	Greatest ppt
Normal	Actual	Normal	Actual	Normal	Actual	Normal	Actual	Normal	Actual	Normal	Actual	Normal	Actual	Normal	Actual	Normal	Actual
49.2 28.5 0.02 28 0	Max Min PPT RPT CDD	45.5 25.1 0.04 29 0	Max Min PPT RPT CDD	47.6 26.1 0.02 28 0	Max Min PPT RPT CDD	46.4 25.7 0.10 29 0	Max Min PPT RPT CDD	44.1 25.1 0.09 30 0	Max Min PPT RPT CDD	45.9 25.0 0.02 30 0	Max Min PPT RPT CDD	45.8 25.3 0.03 29 0	Max Min PPT RPT CDD	45.6 26.0 0.08 29 0	Max Min PPT RPT CDD	47.1 26.0 0.02 28 0	Max Min PPT RPT CDD
7-1914	Highest Max	7-1994	Highest Max	7-1994	Highest Max	7-1961	Highest Max	7-1914	Highest Max	8-1980	Highest Max	7-1914	Highest Max	7-1907	Highest Max	7-1907	Highest Max
14-1990	Lowest Max	11-1930	Lowest Max	8-1930	Lowest Max	6-1992	Lowest Max	12-1992	Lowest Max	18-1944	Lowest Max	18-1944	Lowest Max	18-1944	Lowest Max	12-1904	Lowest Max
2-1906	Lowest Min	0-1900	Lowest Min	4-1990	Lowest Min	4-1990	Lowest Min	11-1992	Lowest Min	1-1996	Lowest Min	1-1996	Lowest Min	1-1996	Lowest Min	3-1930	Lowest Min
53-1990	Highest Min	57-1900	Highest Min	52-1994	Highest Min	4-1996	Highest Min	4-1996	Highest Min	5-1921	Highest Min	5-1921	Highest Min	5-1921	Highest Min	5-1921	Highest Min
1.07-1992	Greatest ppt	7-1990	Greatest ppt	1-16-1926	Greatest ppt	1.07-1968	Greatest ppt	2.75-1994	Greatest ppt	1.29-1904	Greatest ppt	1.29-1904	Greatest ppt	1.29-1904	Greatest ppt	1-40-1921	Greatest ppt
Normal	Actual	Normal	Actual	Normal	Actual	Normal	Actual	Normal	Actual	Normal	Actual	Normal	Actual	Normal	Actual	Normal	Actual
47.3 28.5 0.03 29 0	Max Min PPT RPT CDD	46.8 25.1 0.02 29 0	Max Min PPT RPT CDD	50.1 27.2 0.02 26 0	Max Min PPT RPT CDD	49.2 27.5 0.08 26 0	Max Min PPT RPT CDD	46.4 26.5 0.03 29 0	Max Min PPT RPT CDD	45.8 25.3 0.03 29 0	Max Min PPT RPT CDD	45.8 25.3 0.03 29 0	Max Min PPT RPT CDD	47.1 26.0 0.02 28 0	Max Min PPT RPT CDD	47.1 26.0 0.02 28 0	Max Min PPT RPT CDD
7-1997	Highest Max	7-1909	Highest Max	8-1990	Highest Max	7-1962	Highest Max	7-1963	Highest Max	7-1914	Highest Max	7-1914	Highest Max	7-1903	Highest Max	7-1903	Highest Max
16-1922	Lowest Max	13-1963	Lowest Max	8-1994	Lowest Max	16-1906	Lowest Max	12-1997	Lowest Max	17-1997	Lowest Max	17-1997	Lowest Max	17-1997	Lowest Max	21-1946	Lowest Max
6-1930	Lowest Min	-1-1903	Lowest Min	4-1994	Lowest Min	3-1994	Lowest Min	0-1992	Lowest Min	3-1993	Lowest Min	3-1993	Lowest Min	6-1946	Lowest Min	6-1946	Lowest Min
60-1921	Highest Min	61-1927	Highest Min	51-1944	Highest Min	6-1944	Highest Min	6-1944	Highest Min	5-1914	Highest Min	5-1914	Highest Min	5-1914	Highest Min	5-1909	Highest Min
3-1920	Greatest ppt	1-16-1921	Greatest ppt	37-1949	Greatest ppt	1-26-1949	Greatest ppt	1-65-1916	Greatest ppt	1-65-1916	Greatest ppt	1-65-1916	Greatest ppt	1-65-1916	Greatest ppt	4-4-1999	Greatest ppt
Normal	Actual	Normal	Actual	Normal	Actual	Normal	Actual	Normal	Actual	Normal	Actual	Normal	Actual	Normal	Actual	Normal	Actual
48.1 28.2 0.06 28 0	Max Min PPT RPT CDD	46.9 25.2 0.07 28 0	Max Min PPT RPT CDD	48.4 27.8 0.06 27 0	Max Min PPT RPT CDD	46.4 26.5 0.03 29 0	Max Min PPT RPT CDD	46.4 26.5 0.03 29 0	Max Min PPT RPT CDD	45.8 25.3 0.03 29 0	Max Min PPT RPT CDD	45.8 25.3 0.03 29 0	Max Min PPT RPT CDD	47.1 26.0 0.02 28 0	Max Min PPT RPT CDD	47.1 26.0 0.02 28 0	Max Min PPT RPT CDD
7-1911	Highest Max	7-1917	Highest Max	8-1911	Highest Max	7-1962	Highest Max	7-1962	Highest Max	7-1914	Highest Max	7-1914	Highest Max	7-1903	Highest Max	7-1903	Highest Max
13-1996	Lowest Max	17-1949	Lowest Max	6-1919	Lowest Max	16-1906	Lowest Max	12-1997	Lowest Max	17-1997	Lowest Max	17-1997	Lowest Max	17-1997	Lowest Max	21-1946	Lowest Max
-1-1995	Lowest Min	-1-1995	Lowest Min	-1-1979	Lowest Min	3-1994	Lowest Min	0-1992	Lowest Min	3-1993	Lowest Min	3-1993	Lowest Min	6-1946	Lowest Min	6-1946	Lowest Min
61-1992	Highest Min	65-1998	Highest Min	52-1911	Highest Min	6-1944	Highest Min	6-1944	Highest Min	5-1914	Highest Min	5-1914	Highest Min	5-1914	Highest Min	5-1909	Highest Min
1.94-1992	Greatest ppt	1.34-1992	Greatest ppt	1.06-1923	Greatest ppt	1-26-1949	Greatest ppt	1-65-1916	Greatest ppt	1-65-1916	Greatest ppt	1-65-1916	Greatest ppt	1-65-1916	Greatest ppt	4-4-1999	Greatest ppt

JANUARY AVERAGES

TEMPERATURE :

36.1°F

PRECIPITATION :

1.20"

HEATING DEGREE DAYS :

899

COOLING DEGREE DAYS :

0

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