

1997

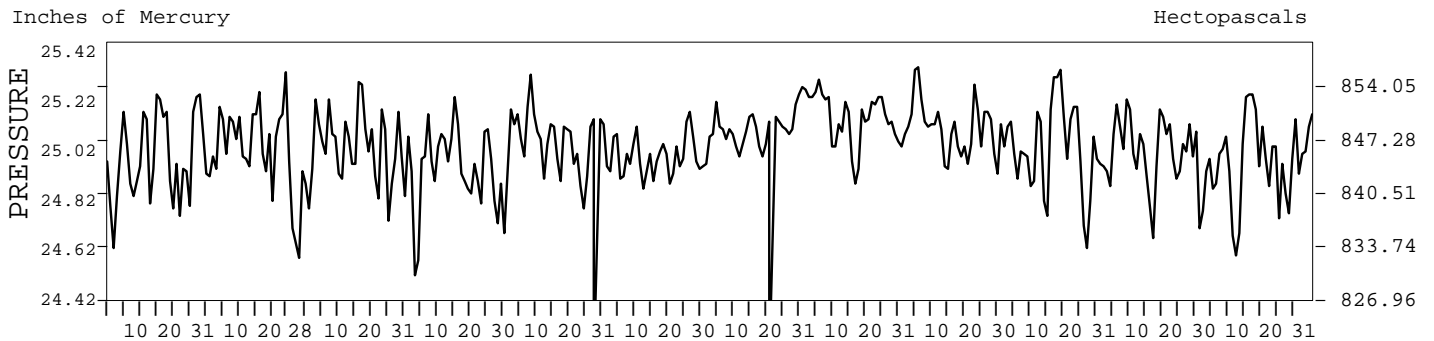
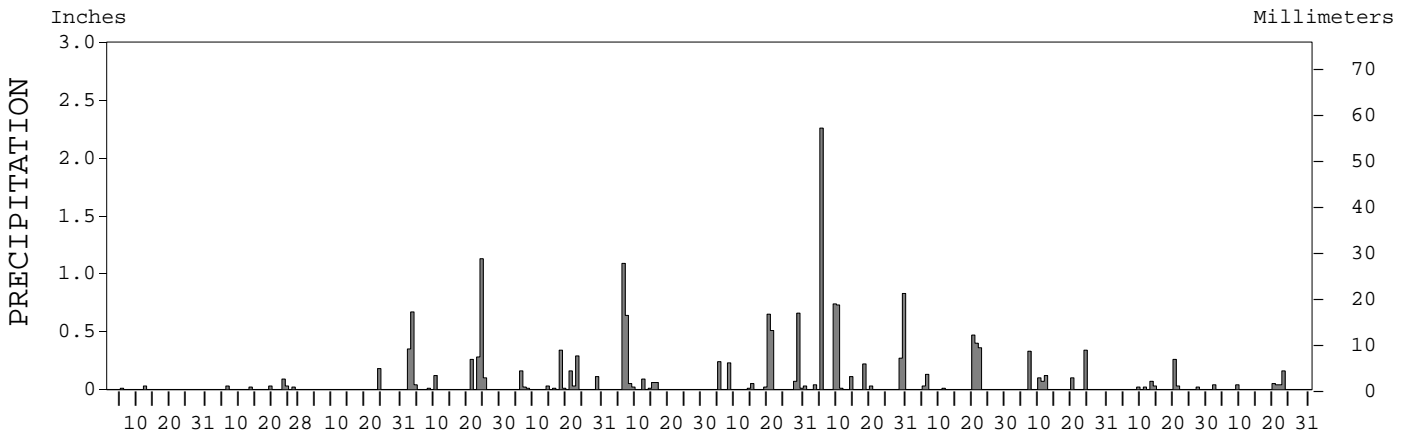
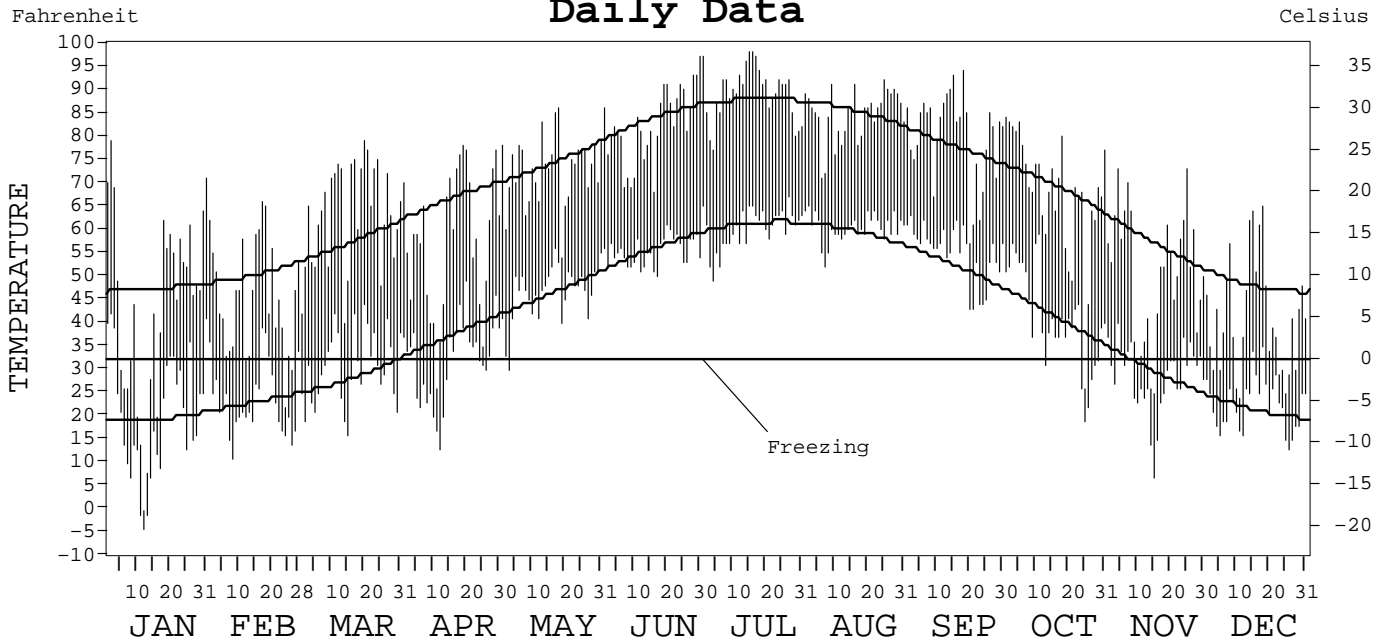
LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-2486

CLAYTON,
NEW MEXICO (CAO)

Daily Data



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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL AND INFORMATION SERVICE
NATIONAL SATELLITE, DATA, AND INFORMATION SERVICE
NATIONAL CLIMATIC DATA CENTER
ASHEVILLE, NORTH CAROLINA

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METEOROLOGICAL DATA FOR 1997

CLAYTON, NM (CAO)

LATITUDE: 36° 26' 45" N LONGITUDE: 103° 09' 15" W ELEVATION (FT): GRND: 4969 BARO: 4972 TIME ZONE: MOUNTAIN (UTC+ 7) WBAN: 23051

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	44.3	45.5	63.3	57.6	72.9	82.3	89.3	84.6	79.9	67.6	50.8	41.2	64.9	
	HIGHEST DAILY MAXIMUM	79	66	79	78	86	97	98	92	94	84	73	65	98	
	DATE OF OCCURRENCE	02	17	20	19	18	30	16+	25	18	01	25+	18	JUL 16+	
	MEAN DAILY MINIMUM	20.5	23.4	30.5	32.0	46.5	55.3	60.2	60.4	55.0	41.1	28.4	22.6	39.7	
	LOWEST DAILY MINIMUM	-4	11	16	13	30	50	49	52	43	19	7	13	-4	
	DATE OF OCCURRENCE	12	08	15	12	03	17	04	07	21+	25	15	26	JAN 12	
	AVERAGE DRY BULB	32.4	34.5	46.9	44.8	59.7	68.8	74.8	72.5	67.5	54.4	39.6	31.9	52.3	
	MEAN WET BULB	25.6	29.1	35.4	37.4		58.4	61.4	62.4	58.0	45.8	32.8	27.5		
	MEAN DEW POINT	15.8	21.4	18.7	29.0		51.8	52.9	57.3	52.3	37.8	24.0	20.6		
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	0	0	7	17	5	3	0	0	0	0	32
	MAXIMUM ≤ 32°	10	3	0	1	0	0	0	0	0	1	3	9	9	27
	MINIMUM ≤ 32°	24	23	19	13	1	0	0	0	0	7	21	29	29	137
MINIMUM ≤ 0°	3	0	0	0	0	0	0	0	0	0	0	0	0	3	
H/C	HEATING DEGREE DAYS	1004	850	553	597	169	20	2	5	60	342	755	1020	5377	
	COOLING DEGREE DAYS	0	0	0	0	13	140	313	244	142	21	0	0	873	
RH	MEAN (PERCENT)	58	64	38	62	59	60	53	65	65	61	60	69	60	
	HOUR 05 LST	65	77	51	77	79	78	76	74	80	76	69	72	73	
	HOUR 11 LST	49	52	25	49	42	46	37	49	50	43	47	63	46	
	HOUR 17 LST	50	50	24	46	44	44	38	53	47	49	58	69	48	
	HOUR 23 LST	66	72	50	73	74	72	64	79	79	73	70	74	70	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	0	3	0	4	0	0	2	0	0	1	1	4	15	
	THUNDERSTORMS	0	0	0	0	0	0	0	0	0	0	0	0	0	
CLOUDINESS	SUNRISE-SUNSET: (OKTAS)														
	CEILOMETER (≤ 12,000 FT.)														
	SATELLITE (> 12,000 FT.)														
	MIDNIGHT-MIDNIGHT: (OKTAS)														
	CEILOMETER (≤ 12,000 FT.)														
	SATELLITE (> 12,000 FT.)														
NUMBER OF DAYS WITH:															
CLEAR															
PARTLY CLOUDY															
CLOUDY															
PR	MEAN STATION PRESS. (IN.)	24.99	25.03	25.03	24.95	25.05	25.00		25.15	25.11	25.02	25.01	24.98		
	MEAN SEA-LEVEL PRESS. (IN.)	30.02	30.05	29.97	29.89		29.80		29.97	29.95	29.91	30.00	30.01		
WINDS	RESULTANT SPEED (MPH)	5.1	2.9	4.4	2.6		2.2	4.8	3.5	1.8	4.2	4.9	7.1		
	RES. DIR. (TENS OF DEGS.)	25	26	24	30		20	19	20	23	23	30	31		
	MEAN SPEED (MPH)	12.0	13.3	14.2	13.1	12.3	11.1	12.1	10.1	10.6	13.3	12.0	13.0	12.3	
	PREVAIL. DIR. (TENS OF DEGS.)	23	19	19	35	20	18	20	21	18	17	34	34	19	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	37	38	39	43	36	32	47	40	30	47	38	46	47	
	DIR. (TENS OF DEGS.)	23	19	36	25	32	26	17	27	32	32	33	35	32	
	DATE OF OCCURRENCE	03	27	29	05	02	07+	15	14	06	25	28	27	OCT 25	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	41	45	44	53	51	49	66	52	39	55	45	53	66	
DIR. (TENS OF DEGS.)	28	25	36	26	28	17	17	26	21	33	33	36	17		
DATE OF OCCURRENCE	03	28+	29	28	06	06	15	14	11	25	29	27	JUL 15		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	0.04	0.22	0.18	2.96	1.17	2.02	2.48	5.24	1.40	1.06	0.45	0.37	17.59	
	GREATEST 24-HOUR (IN.)	0.03	0.12	0.18	1.25	0.35	1.09	0.73	2.26	0.48	0.34	0.29	0.20	2.26	
	DATE OF OCCURRENCE	12	23-24	24-25	23-24	18-19	06	28-29	05	20-21	24	20-21	22-23	AUG 05	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	2	6	1	9	11	8	11	10	6	6	7	6	83	
PRECIPITATION ≥ 0.10	0	0	1	7	5	2	5	7	4	5	1	1	38		
PRECIPITATION ≥ 1.00	0	0	0	1	0	1	0	1	0	0	0	0	3		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)														
	GREATEST 24-HOUR (IN.)														
	DATE OF OCCURRENCE														
	MAXIMUM SNOW DEPTH (IN.)														
	DATE OF OCCURRENCE														
NUMBER OF DAYS WITH:															
SNOWFALL ≥ 1.0															

NORMALS, MEANS, AND EXTREMES

CLAYTON, NM (CAO)

LATITUDE: 36° 26' 45" N LONGITUDE: 103° 09' 15" W ELEVATION (FT): GRND: 4969 BARO: 4972 TIME ZONE: MOUNTAIN (UTC+ 7) WBAN: 23051

		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	47.3	50.2	57.2	66.4	74.2	83.5	87.6	85.0	77.5	68.7	56.5	47.9	66.8
	MEAN DAILY MAXIMUM	47	46.4	49.3	55.6	64.7	72.8	84.0	85.7	85.3	78.2	69.2	56.0	48.5	66.3
	HIGHEST DAILY MAXIMUM	49	80	81	86	91	95	104	102	102	99	90	85	83	104
	YEAR OF OCCURRENCE		1990	1963	1989	1965	1984	1968	1964	1944	1948	1979	1980	1955	JUN 1968
	MEAN OF EXTREME MAXS.	47	68.4	69.6	75.1	81.4	86.7	95.9	94.9	94.3	90.9	85.0	76.2	69.7	82.3
	NORMAL DAILY MINIMUM	30	19.4	22.8	28.1	37.2	46.3	55.6	60.9	59.2	51.8	40.8	29.1	21.2	39.4
	MEAN DAILY MINIMUM	47	18.6	21.9	26.5	35.7	44.9	55.4	58.9	58.9	51.5	40.3	28.0	21.0	38.5
	LOWEST DAILY MINIMUM	49	-21	-17	-11	9	23	37	45	45	26	12	-10	-14	-21
	YEAR OF OCCURRENCE		1959	1951	1948	1945	1967	1964	1958	1964	1985	1991	1976	1990	JAN 1959
	MEAN OF EXTREME MINS.	47	-5	4.4	10.3	21.3	32.1	45.5	51.9	51.9	38.6	26.2	11.2	3.5	24.7
	NORMAL DRY BULB	30	33.4	36.6	42.7	51.8	60.3	69.6	74.3	72.2	64.7	54.8	42.8	34.6	53.1
	MEAN DRY BULB	47	32.5	35.7	41.1	50.3	58.8	69.8	72.4	72.2	64.8	54.7	42.0	34.8	52.4
	MEAN WET BULB	1	25.6	29.1	35.4	37.4		58.4	40.8	62.0	36.4	44.1	34.1	28.8	
	MEAN DEW POINT	1	15.8	21.4	18.7	29.0		49.9	34.8	56.3	30.8	35.7	23.7	19.0	
	NORMAL NO. DAYS WITH:														
MAXIMUM ≥ 90°	30	0.0	0.0	0.0	0.1	1.0	7.5	12.8	8.5	1.9	*	0.0	0.0	31.8	
MAXIMUM ≤ 32°	30	4.8	3.2	1.6	0.2	0.0	0.0	0.0	0.0	0.0	0.1	1.2	4.1	15.2	
MINIMUM ≤ 32°	30	29.3	24.5	22.3	8.7	1.0	0.0	0.0	0.0	0.3	5.1	19.9	28.2	139.3	
MINIMUM ≤ 0°	30	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.0	3.2	
H/C	NORMAL HEATING DEG. DAYS	30	980	795	691	401	169	22	0	0	73	325	666	942	5064
	NORMAL COOLING DEG. DAYS	30	0	0	0	0	24	160	288	227	64	9	0	0	772
RH	NORMAL (PERCENT)	30	56	53	51	44	54	55	50	58	52	56	51	58	53
	HOUR 05 LST	30	64	64	64	64	69	71	76	76	75	64	65	63	68
	HOUR 11 LST	30	42	40	37	33	37	38	40	42	42	35	40	42	39
	HOUR 17 LST	30	44	39	32	28	32	34	39	40	42	38	46	52	39
	HOUR 23 LST	30	65	63	62	54	67	68	62	69	62	67	60	65	64
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	21	0.7	1.5	2.0	1.1	0.9	0.6	0.8	0.3	0.9	0.8	0.9	1.3	11.8
	THUNDERSTORMS	21	0.1	0.3	0.7	2.1	7.9	9.5	12.2	10.3	4.8	1.0	0.3	0.1	49.3
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)	26	4.1	4.0	4.2	4.0	4.1	3.3	3.7	3.3	2.9	2.7	3.4	3.5	3.6
	MIDNIGHT-MIDNIGHT (OKTAS)														
	MEAN NO. DAYS WITH:														
CLEAR	28	12.5	11.2	11.3	11.7	11.4	13.5	12.3	15.0	17.2	17.8	14.8	13.9	162.6	
PARTLY CLOUDY	28	7.0	7.3	8.8	8.8	9.3	10.4	11.9	9.7	6.0	6.6	6.0	7.0	98.8	
CLOUDY	28	11.5	9.6	10.9	9.5	10.4	6.2	6.8	6.3	6.8	6.6	9.2	10.1	103.9	
PR	MEAN STATION PRESSURE (IN)	1	24.99	25.03	25.03	24.95	25.05	25.00	25.12	25.15	25.08	25.03	25.02	24.97	25.03
	MEAN SEA-LEVEL PRES. (IN)	2	15.01	30.05	14.98	14.94		14.90	29.93	29.97	29.95	29.92	30.00	29.98	22.47
WINDS	MEAN SPEED (MPH)	4	11.8	12.1	13.0	14.2	12.5	11.9	11.0	10.5	12.0	12.5	12.9	12.7	12.3
	PREVAIL. DIR (TENS OF DEGS)	7	26	26	26	22	21	22	22	22	21	22	26	22	22
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	1	37	38	39	43	36	41	49	40	43	47	38	46	49
	DIR. (TENS OF DEGS)		23	19	36	25	32	32	30	27	31	32	33	35	30
	YEAR OF OCCURRENCE		1997	1997	1997	1997	1997	1996	1996	1997	1996	1997	1997	1997	JUL 1996
	PEAK GUST:														
SPEED (MPH)	1	41	45	44	53	51	54	66	52	52	55	45	53	66	
DIR. (TENS OF DEGS)		28	18	36	26	28	36	17	26	32	33	33	36	17	
YEAR OF OCCURRENCE		1997	1997	1997	1997	1997	1996	1997	1997	1996	1997	1997	1997	JUL 1997	
PRECIPITATION	NORMAL (IN)	30	0.24	0.31	0.55	0.94	1.99	2.27	2.70	2.61	1.77	0.90	0.52	0.29	15.09
	MAXIMUM MONTHLY (IN)	49	1.06	1.61	2.30	4.67	6.77	4.97	7.77	5.83	5.22	4.55	2.08	1.10	7.77
	YEAR OF OCCURRENCE		1960	1987	1957	1944	1949	1989	1950	1991	1960	1984	1978	1960	JUL 1950
	MINIMUM MONTHLY (IN)	49	T	T	0.01	0.04	0.27	0.19	0.45	0.28	T	T	T	0.00	0.00
	YEAR OF OCCURRENCE		1970	1991	1966	1991	1974	1955	1987	1983	1956	1992	1989	1957	DEC 1957
	MAXIMUM IN 24 HOURS (IN)	49	0.71	0.88	0.90	2.42	4.67	2.86	2.69	4.41	3.48	3.90	1.58	0.71	4.67
	YEAR OF OCCURRENCE		1960	1987	1959	1980	1954	1984	2069	1963	1960	1965	1961	1947	MAY 1954
NORMAL NO. DAYS WITH:															
PRECIPITATION ≥ 0.01	30	3.3	3.3	4.6	5.0	8.1	8.0	9.9	8.8	6.7	3.7	3.6	3.4	68.4	
PRECIPITATION ≥ 1.00	30	0.0	0.0	0.0	0.1	0.3	0.4	0.6	0.6	0.3	0.1	0.1	0.0	2.5	
SNOWFALL	NORMAL (IN)	30	3.8	3.7	4.8	1.9	0.6	0.0	0.0	0.0	0.2	0.8	2.9	4.0	22.7
	MAXIMUM MONTHLY (IN)	48	12.0	15.8	16.0	10.9	8.0	T	0.0	T	5.0	8.0	14.8	11.5	16.0
	YEAR OF OCCURRENCE		1990	1990	1984	1955	1978	1992		1992	1984	1984	1961	1987	MAR 1984
	MAXIMUM IN 24 HOURS (IN)	46	8.0	10.0	9.0	10.9	7.6	T	0.0	T	5.0	6.0	12.7	8.1	12.7
	YEAR OF OCCURRENCE		1990	1990	1973	1955	1978	1992		1992	1984	1984	1961	1958	NOV 1961
	MAXIMUM SNOW DEPTH (IN)	45	11	11	10	11	6	0	0	0	4	6	12	8	12
	YEAR OF OCCURRENCE		1990	1990	1973	1955	1990				1984	1984	1961	1987	NOV 1961
NORMAL NO. DAYS WITH:															
SNOWFALL ≥ 1.0	30	1.4	1.3	1.7	0.7	0.2	0.0	0.0	0.0	0.1	0.3	1.0	1.5	8.2	

PRECIPITATION (inches) 1997 CLAYTON, NM (CAO)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1967	0.07	0.05	0.09	0.97	2.68	3.02	1.61	2.25	2.43	0.12	0.22	0.33	13.84
1968	0.17	0.08	0.66	1.00	0.75	2.09	2.56	2.12	0.73	0.02	0.31	0.20	10.69
1969	T	0.65	1.48	0.93	4.38	3.23	2.21	5.17	3.59	3.15	0.27	0.64	25.70
1970	T	0.18	0.83	1.33	0.69	0.79	2.11	1.97	1.88	0.47	0.11	T	10.36
1971	0.13	0.33	0.38	1.16	2.27	2.95	3.31	2.49	0.87	0.90	0.87	0.52	16.18
1972	0.06	0.01	0.44	0.20	2.60	3.08	4.58	3.33	3.05	0.58	1.05	0.17	19.15
1973	0.42	0.22	2.29	2.65	0.86	1.04	2.00	1.31	0.99	0.40	0.10	0.74	13.02
1974	0.33	0.10	0.24	0.06	0.27	2.84	2.85	2.45	0.71	1.32	0.30	0.13	11.60
1975	0.39	0.17	0.14	0.63	1.77	1.55	3.80	2.06	1.71	T	1.02	0.06	13.30
1976	0.10	0.18	0.13	0.82	2.39	0.67	3.83	1.04	3.32	0.22	0.25	0.03	12.98
1977	0.20	0.04	0.15	3.00	1.47	0.80	1.39	2.44	0.45	0.01	0.19	0.08	10.22
1978	0.27	0.61	0.09	0.26	3.63	2.66	1.14	1.41	0.58	0.18	2.08	0.39	13.30
1979	0.74	0.03	0.86	1.36	2.41	2.73	3.38	1.01	1.31	0.41	0.31	0.30	14.85
1980	0.29	0.04	0.79	3.11	2.70	2.03	0.88	1.25	0.74	T	0.44	0.24	12.51
1981	0.07	0.03	1.27	0.46	1.57	3.33	3.01	5.73	0.63	0.81	0.45	0.24	17.60
1982	0.04	0.18	0.20	0.37	2.32	2.99	6.67	2.09	2.29	0.43	0.33	0.56	18.47
1983	0.78	0.58	0.72	0.69	3.35	2.12	1.39	0.28	0.36	0.35	0.33	0.45	11.40
1984	0.34	0.19	1.36	0.91	0.75	4.38	2.58	3.95	0.74	4.55	0.12	0.41	20.28
1985	0.43	0.10	1.14	1.89	1.72	0.77	1.40	1.78	2.49	2.85	0.15	0.04	14.76
1986	0.02	0.31	0.11	0.12	3.87	1.97	3.59	5.70	2.85	3.15	1.76	0.16	23.61
1987	0.47	1.61	0.86	0.64	3.73	2.14	0.45	2.64	1.02	T	0.55	0.80	14.91
1988	0.11	0.15	0.56	1.45	3.41	1.38	1.72	1.76	4.29	0.66	0.17	0.07	15.73
1989	0.18	0.30	0.03	0.76	1.49	4.97	5.60	2.42	1.92	0.12	T	0.59	18.38
1990	0.70	1.17	0.41	0.35	1.25	0.47	2.80	3.65	2.70	0.15	1.37	0.24	15.26
1991	0.38	T	1.15	0.04	2.11	2.66	0.89	5.83	3.62	0.42	0.82	0.92	18.84
1992	0.22	0.32	0.75	0.34	1.74	3.38	4.38	3.56	0.64	T	0.46	0.45	16.24
1996						0.40	4.98	4.30	2.30	0.33	0.19	0.03	
1997	0.04	0.22	0.18	2.96	1.17	2.02	2.48	5.24	1.40	1.06	0.45	0.37	17.59
POR= 50 YRS	0.29	0.34	0.60	1.00	2.38	1.93	2.73	2.68	1.61	0.89	0.40	0.29	15.14

WBAN : 23051

AVERAGE TEMPERATURE (°F) 1997 CLAYTON, NM (CAO)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1967	37.1	36.8	47.4	54.7	58.0	67.0	72.8	69.0	63.4	56.2	43.1	30.3	53.0
1968	34.5	35.9	43.0	48.7	57.5	70.8	72.1	71.2	63.9	57.6	40.3	33.5	52.4
1969	38.9	37.1	33.3	53.2	61.2	65.6	75.8	73.9	65.9	47.7	42.5	36.1	52.6
1970	32.3	39.5	36.5	48.6	62.0	68.3	74.1	73.4	63.0	48.5	42.6	37.8	52.2
1971	34.2	34.5	42.6	50.1	58.4	71.5	71.7	69.3	61.6	53.5	43.1	34.8	52.1
1972	34.4	39.9	48.4	55.4	59.9	70.1	70.6	69.8	64.1	53.1	34.0	31.9	52.6
1973	31.6	36.1	41.0	44.4	57.4	68.7	72.8	73.5	62.5	56.4	46.0	34.9	52.1
1974	31.7	38.0	47.7	52.3	65.5	70.6	74.5	68.6	59.7	55.8	42.1	32.1	53.2
1975	32.9	33.9	40.8	48.8	58.7	68.6	71.6	73.2	62.2	56.1	40.9	38.7	52.2
1976	34.5	42.8	41.6	53.4	57.6	69.3	72.7	72.4	64.8	48.8	38.4	36.2	52.7
1977	30.0	39.9	42.4	52.9	62.3	72.8	75.7	72.9	68.5	56.3	43.5	38.8	54.7
1978	27.7	30.2	44.6	54.3	58.3	69.4	76.8	71.6	65.8	55.6	42.2	29.4	52.2
1979	23.3	36.0	43.5	50.9	56.9	67.5	73.9	70.2	66.4	56.5	37.5	37.8	51.7
1980	33.1	37.6	40.7	48.6	57.1	72.8	78.8	74.1	66.4	54.3	42.4	42.8	54.1
1981	38.3	39.2	43.9	57.7	59.8	73.1	75.0	70.4	65.7	54.1	47.3	37.2	55.1
1982	34.9	33.7	43.3	50.5	59.3	66.1	72.8	72.9	66.0	53.3	40.8	33.6	52.3
1983	35.4	36.4	42.1	45.7	55.8	65.8	75.3	76.5	68.4	56.2	43.6	23.7	52.1
1984	30.9	37.6	40.2	47.7	61.8	70.1	73.9	72.3	62.7	49.3	43.2	37.2	52.2
1985	29.5	34.1	43.6	54.9	62.3	70.2	75.2	73.1	62.1	53.4	40.2	32.6	52.6
1986	41.5	38.6	49.6	54.5	60.2	69.3	74.4	71.6	63.9	52.9	40.8	34.9	54.4
1987	34.2	37.6	41.3	51.8	60.9	69.4	73.8	70.9	65.3	55.6	42.7	32.8	53.0
1988	29.6	37.0	41.4	51.4	59.6	71.1	73.3	73.4	63.7	56.4	44.5	35.5	53.1
1989	37.3	29.9	49.0	55.3	63.3	65.3	72.1	71.7	63.1	56.1	45.4	30.0	53.2
1990	35.6	35.2	43.1	52.1	58.7	75.7	72.3	71.2	67.6	54.8	46.1	29.4	53.5
1991	31.5	42.9	43.8	52.4	63.1	70.8	72.8	71.4	62.8	54.4	37.7	36.2	53.3
1992	36.6	41.4	45.7	56.7	59.9	66.4	72.3	69.9	66.4	57.0	37.1	31.8	53.4
1996						72.1	73.5	70.2	62.0	53.3	43.1	35.9	
1997	32.4	34.5	46.9	44.8	59.7	68.8	74.8	72.5	67.5	54.4	39.6	31.9	52.3
POR= 50 YRS	33.3	36.5	42.0	51.3	60.1	69.6	72.4	72.3	64.9	54.9	42.0	34.9	52.9

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HEATING DEGREE DAYS (base 65°F) 1997 CLAYTON, NM (CAO)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1967-68	0	31	85	286	650	1066	940	837	673	482	238	10	5298
1968-69	11	13	68	247	734	969	802	773	973	348	142	72	5152
1969-70	0	0	28	530	668	886	1005	708	875	483	125	58	5366
1970-71	6	0	151	506	667	835	950	849	690	439	215	0	5308
1971-72	25	8	180	351	649	930	946	719	511	293	171	0	4783
1972-73	25	14	91	376	921	1018	1025	805	735	612	250	24	5896
1973-74	4	0	119	263	561	928	1025	749	528	377	70	31	4655
1974-75	2	11	180	285	680	1010	987	861	742	479	199	42	5478
1975-76	0	0	158	270	718	811	938	637	716	341	228	13	4830
1976-77	0	2	80	497	790	884	1079	696	693	355	94	0	5170
1977-78	0	3	17	268	637	806	1148	968	627	314	236	36	5060
1978-79	0	8	68	291	678	1100	1286	806	660	416	252	62	5627
1979-80	0	7	69	275	818	836	981	791	750	486	245	16	5274
1980-81	0	0	64	333	675	682	821	716	646	228	170	10	4345
1981-82	0	6	50	332	525	856	924	873	663	434	179	52	4894
1982-83	4	0	60	354	718	966	910	795	703	571	287	66	5434
1983-84	0	0	63	271	636	1276	1050	786	764	512	143	9	5510
1984-85	0	1	150	481	650	858	1092	858	655	296	126	26	5193
1985-86	0	4	183	355	739	995	720	731	470	315	161	12	4685
1986-87	0	3	79	369	718	926	948	762	728	391	130	16	5070
1987-88	2	27	41	295	661	992	1090	802	723	402	185	8	5228
1988-89	0	10	93	268	609	908	850	979	496	316	129	75	4733
1989-90	1	0	126	290	581	1076	903	828	673	385	221	2	5086
1990-91	10	8	40	309	558	1095	1033	613	649	371	112	3	4801
1991-92	5	2	104	344	811	886	873	676	593	252	177	41	4764
1992-93	1	11	48	252	832	1020							
1995-96												2	
1996-97	10	1	131	365	652	893	1004	850	553	597	169	20	5245
1997-	2	5	60	342	755	1020							

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COOLING DEGREE DAYS (base 65°F) 1997 CLAYTON, NM (CAO)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1969	0	0	0	0	33	96	344	282	61	4	0	0	820
1970	0	0	0	0	36	162	297	270	95	3	0	0	863
1971	0	0	4	0	17	200	239	149	82	0	0	0	691
1972	0	0	0	13	19	160	208	169	71	15	0	0	655
1973	0	0	0	0	21	143	254	273	51	5	0	0	747
1974	0	0	0	4	92	205	303	130	31	3	0	0	768
1975	0	0	0	0	10	156	210	260	82	1	0	0	719
1976	0	0	0	0	7	152	244	240	81	3	0	0	727
1977	0	0	0	0	16	241	342	256	130	3	0	0	988
1978	0	0	0	0	34	177	372	221	100	6	0	0	910
1979	0	0	0	1	6	145	283	173	117	17	0	0	742
1980	0	0	0	0	8	257	433	290	113	7	2	0	1110
1981	0	0	0	18	17	258	318	180	77	1	0	0	869
1982	0	0	0	4	8	90	255	251	97	0	0	0	705
1983	0	0	0	0	9	98	325	363	172	6	0	0	973
1984	0	0	0	0	50	170	282	233	88	2	0	0	825
1985	0	0	0	1	49	188	321	263	100	0	0	0	922
1986	0	0	2	6	19	147	298	212	53	0	0	0	737
1987	0	0	0	2	9	156	281	218	54	8	0	0	728
1988	0	0	0	0	22	198	263	278	61	6	0	0	828
1989	0	0	6	32	82	93	229	217	77	19	0	0	755
1990	0	0	0	1	32	326	247	207	126	0	0	0	939
1991	0	0	0	0	60	182	252	208	44	25	0	0	771
1992	0	0	0	12	23	90	234	170	93	13	0	0	635
1996						223	282	168	46	11	0	0	
1997	0	0	0	0	13	140	313	244	142	21	0	0	873

SNOWFALL (inches) 1997 CLAYTON, NM (CAO)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1967-68	0.0	0.0	0.0	0.7	2.2	7.0	1.0	1.6	7.0	T	0.0	0.0	19.5
1968-69	0.0	0.0	0.0	0.0	2.3	2.1	T	3.8	15.1	3.6	0.6	0.0	27.5
1969-70	0.0	0.0	0.0	3.9	1.8	3.6	T	3.8	11.9	3.2	0.0	0.0	28.2
1970-71	0.0	0.0	T	5.2	1.5	T	2.3	6.3	4.4	0.8	T	0.0	20.5
1971-72	0.0	0.0	1.1	T	0.5	6.6	1.5	0.3	6.3	1.3	0.0	0.0	17.6
1972-73	0.0	0.0	0.0	1.0	13.5	1.7	5.7	2.2	14.4	5.6	T	0.0	44.1
1973-74	0.0	0.0	T	T	1.6	8.0	5.8	1.0	1.0	T	0.0	0.0	17.4
1974-75	0.0	0.0	0.0	0.0	0.6	2.5	6.5	3.3	1.0	1.3	0.0	0.0	15.2
1975-76	0.0	0.0	0.0	0.0	2.3	2.3	1.5	0.6	2.0	0.0	0.0	0.0	8.7
1976-77	0.0	0.0	T	T	3.9	0.5	3.8	1.0	0.6	2.0	0.0	0.0	11.8
1977-78	0.0	0.0	0.0	0.0	1.3	0.2	4.7	9.5	1.8	1.0	8.0	0.0	26.5
1978-79	0.0	0.0	0.0	0.0	4.5	11.0	6.9	0.2	0.6	6.1	1.7	0.0	31.0
1979-80	0.0	0.0	0.0	2.7	2.3	3.8	1.9	1.0	5.6	4.0	0.0	0.0	21.3
1980-81	0.0	0.0	0.0	0.0	6.5	1.5	1.3	0.7	1.0	0.5	T	0.0	11.5
1981-82	0.0	0.0	0.0	T	T	4.0	0.8	5.3	3.0	0.8	T	0.0	13.9
1982-83	0.0	0.0	0.0	0.0	4.2	8.6	12.0	8.3	9.7	8.2	0.2	0.0	51.2
1983-84	0.0	0.0	0.0	0.0	1.0	7.6	6.4	3.0	16.0	T	0.0	0.0	34.0
1984-85	0.0	0.0	5.0	8.0	1.3	5.0	9.8	0.8	5.0	0.0	0.0	0.0	34.9
1985-86	0.0	0.0	T	0.0	1.3	1.5	0.8	6.6	T	T	0.0	0.0	10.2
1986-87	0.0	0.0	0.0	0.0	6.2	3.9	10.5	7.5	9.1	5.5	0.0	0.0	42.7
1987-88	0.0	0.0	0.0	0.0	4.4	11.5	3.3	3.0	10.5	8.5	0.0	0.0	41.2
1988-89	0.0	0.0	0.0	0.0	3.3	2.0	1.2	2.9	1.0	0.2	T	0.0	10.6
1989-90	0.0	T	T	T	T	5.2	12.0	15.8	4.0	1.0	6.0	0.0	44.0
1990-91	0.0	0.0	0.0	0.5	2.5	6.5	3.8	T	10.0	T	0.3	0.0	23.6
1991-92	0.0	0.0	0.0	6.0	6.0	3.0	0.7	T	0.5	T	0.0	T	16.2
1992-93	0.0	T	0.0	0.0	9.0	9.0							
1996-97													
1997-													
POR= 48 YRS	0.0	T	0.1	0.7	3.0	3.7	3.7	3.3	4.9	1.9	0.4	T	21.7

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REFERENCE NOTES:

<p>PAGE 1: THE TEMPERATURE GRAPH SHOWS NORMAL MAXIMUM AND NORMAL MINIMUM DAILY TEMPERATURES (SOLID CURVES) AND THE ACTUAL DAILY HIGH AND LOW TEMPERATURES (VERTICAL BARS).</p> <p>PAGE 2 AND 3: H/C INDICATES HEATING AND COOLING DEGREE DAYS. RH INDICATES RELATIVE HUMIDITY W/O INDICATES WEATHER AND OBSTRUCTIONS S INDICATES SUNSHINE. PR INDICATES PRESSURE. CLOUDINESS ON PAGE 3 IS THE SUM OF THE CEILOMETER AND SATELLITE DATA NOT TO EXCEED EIGHT EIGHTHS(OKTAS).</p> <p>GENERAL: T INDICATES TRACE PRECIPITATION, AN AMOUNT GREATER THAN ZERO BUT LESS THAN THE LOWEST REPORTABLE VALUE. + INDICATES THE VALUE ALSO OCCURS ON EARLIER DATES. BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA. NORMALS ARE 30-YEAR AVERAGES (1961 - 1990). ASOS INDICATES AUTOMATED SURFACE OBSERVING SYSTEM. PM INDICATES THE LAST DAY OF THE PREVIOUS MONTH. POR (PERIOD OF RECORD) BEGINS WITH THE JANUARY DATA MONTH AND IS THE NUMBER OF YEARS USED TO COMPUTE THE MEAN. INDIVIDUAL MONTHS WITHIN THE POR MAY BE MISSING. WHEN THE POR FOR A NORMAL IS LESS THAN 30 YEARS, THE NORMAL IS PROVISIONAL AND IS BASED ON THE NUMBER OF YEARS INDICATED. 0.* OR * INDICATES THE VALUE OR MEAN-DAYS-WITH IS BETWEEN 0.00 AND 0.05. CLOUDINESS FOR ASOS STATIONS DIFFERS FROM THE NON-ASOS OBSERVATION TAKEN BY A HUMAN OBSERVER. ASOS STATION CLOUDINESS IS BASED ON TIME-AVERAGED CEILOMETER DATA FOR CLOUDS AT OR BELOW 12,000 FEET AND ON SATELLITE DATA FOR CLOUDS ABOVE 12,000 FEET. THE NUMBER OF DAYS WITH CLEAR, PARTLY CLOUDY, AND CLOUDY CONDITIONS FOR ASOS STATIONS IS THE SUM OF THE CEILOMETER AND SATELLITE DATA FOR THE SUNRISE TO SUNSET PERIOD.</p>	<p>GENERAL CONTINUED: CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS. WHEN AT LEAST ONE OF THE ELEMENTS (CEILOMETER OR SATELLITE) IS MISSING, THE DAILY CLOUDINESS IS NOT COMPUTED. WIND DIRECTION IS RECORDED IN TENS OF DEGREES (2 DIGITS) CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM. "36" INDICATES TRUE NORTH. RESULTANT WIND IS THE VECTOR AVERAGE OF THE SPEED AND DIRECTION. AVERAGE TEMPERATURE IS THE SUM OF THE MEAN DAILY MAXIMUM AND MINIMUM TEMPERATURE DIVIDED BY 2. SNOWFALL DATA COMPRISE ALL FORMS OF FROZEN PRECIPITATION, INCLUDING HAIL. A HEATING (COOLING) DEGREE DAY IS THE DIFFERENCE BETWEEN THE AVERAGE DAILY TEMPERATURE AND 65° F. DRY BULB IS THE TEMPERATURE OF THE AMBIENT AIR. DEW POINT IS THE TEMPERATURE TO WHICH THE AIR MUST BE COOLED TO ACHIEVE 100 PERCENT RELATIVE HUMIDITY. WET BULB IS THE TEMPERATURE THE AIR WOULD HAVE IF THE MOISTURE CONTENT WAS INCREASED TO 100 PERCENT RELATIVE HUMIDITY.</p> <p>ON JULY 1, 1996, THE NATIONAL WEATHER SERVICE BEGAN USING THE "METAR" OBSERVATION CODE THAT WAS ALREADY EMPLOYED BY MOST OTHER NATIONS OF THE WORLD. THE MOST NOTICEABLE DIFFERENCE IN THIS ANNUAL PUBLICATION WILL BE THE CHANGE IN UNITS FROM TENTHS TO EIGHTHS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.</p>
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1997
CLAYTON,
NEW MEXICO (CAO)

Clayton is located on the high plains of northeastern New Mexico some 90 miles southeast of the eastern slope of the Rocky Mountains. The climate is semi-arid. Nearly 80 percent of the rainfall occurs from May through October in sudden thunderstorms which form over the mountains northwest of Clayton and drift southeastward. This makes the growing of small grains and the raising of range cattle profitable. Native grasses in the area remain nutritious even in winter.

The climate of Clayton is characteristic of that found in the higher-altitude sections of the continental southwest. Temperatures are mostly moderate. While daytime temperatures in summer are moderately warm, 90 degrees or slightly higher about half the time in July, hot days recording temperatures of 100 degrees or more, only occur about once a year. Minimum temperatures range from the teens in January to the 60s in July. With clear nocturnal skies and an altitude of about 5,000 feet, summer nights in Clayton are usually comfortable for sleeping. While winter minima are generally below freezing, zero temperatures only occur about three times a year.

From June through August nearly all precipitation is from scattered thunderstorms. As late summer and fall give way to winter, showery precipitation becomes less frequent and copious. Occasional winter snows, caused in part by upslope movement of air from the Gulf of Mexico, supply some winter moisture.

Blizzards are rare but high winds and cold temperatures frequent winter storms and can produce blizzard conditions. These storms may often close highways and, unless proper precautions are taken, they may also cause loss of life and livestock.

Based on the 1951-1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is October 16 and the average last occurrence in the spring is May 1.

STATION LOCATION

CLAYTON, NEW MEXICO

LOCATION	OCCUPIED FROM	OCCUPIED TO	AIRLINE DISTANCES AND DIRECTIONS FROM PREVIOUS LOCATION	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE												* Type	REMARKS	
						SEA LEVEL	GROUND													
							G	W	E	P	S	T	R	W	8	H	A			E
<u>COOPERATIVE</u>																				
Near Post Office	2/1/96	2/28/99	NA	36° 27'	103°11'	5054			G									G	G. W. Guyer, Observer. G - Ground exposure of instruments 2/1/96 through 9/30/11.	
J. C. Slack	3/1/99	12/31/99	Near P. O.	36° 27'	103°11'	5054			G											
Home of Dr. W. W. Chilton	1/15/09	9/30/11	Near P. O.	36° 27'	103°11'	5054			G											
Home of Dr. N. E. Charlton	3/1/13	6/30/30	Near P. O.	36° 27'	103°11'	5054			5									3		
Gas Company Building 5 Main Street	7/3/30	1/1/37	2 blocks NW of P.O.	36° 26'	103°11'	5020			35									35	Platform on roof of 20' building.	
Gas Company Building 5 Main Street	1/1/37	3/25/44	No Change	36° 26'	103°11'	5020	R		5	5								2	R - Roof exposure	
<u>AIRPORT</u>																				
Administration Building Municipal Airpark	3/25/44	11/7/49	1.5 mi. E	36° 27'	103°09'	4996		28	5	5								3	2	Established as First Order station.
Administration Building Municipal Airpark	11/7/49	Present	0.7 mi. ESE	36° 27'	103°09'	a4669		30 e30 M33	b5	d5	NA	NA M3	c4	c3	NA M4	M				a - Established 11/18/49 b - Minor adjustment 12/7/49 c - Moved to a location 55' E of office 6/19/62 d - Minor adjustment 9/5/51. e - Type change 5/22/58. M - AMOS commissioned 450' ESE of Admin. building 10/2/75.
																			S	ASOS Commissioned 06/01/96

SUBSCRIPTION: Price and ordering information available through: National Climatic Data Center, Federal Building, Asheville, North Carolina 28801.
INQUIRIES/COMMENTS CALL: (704) 271-4800

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151 Patton Avenue
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