

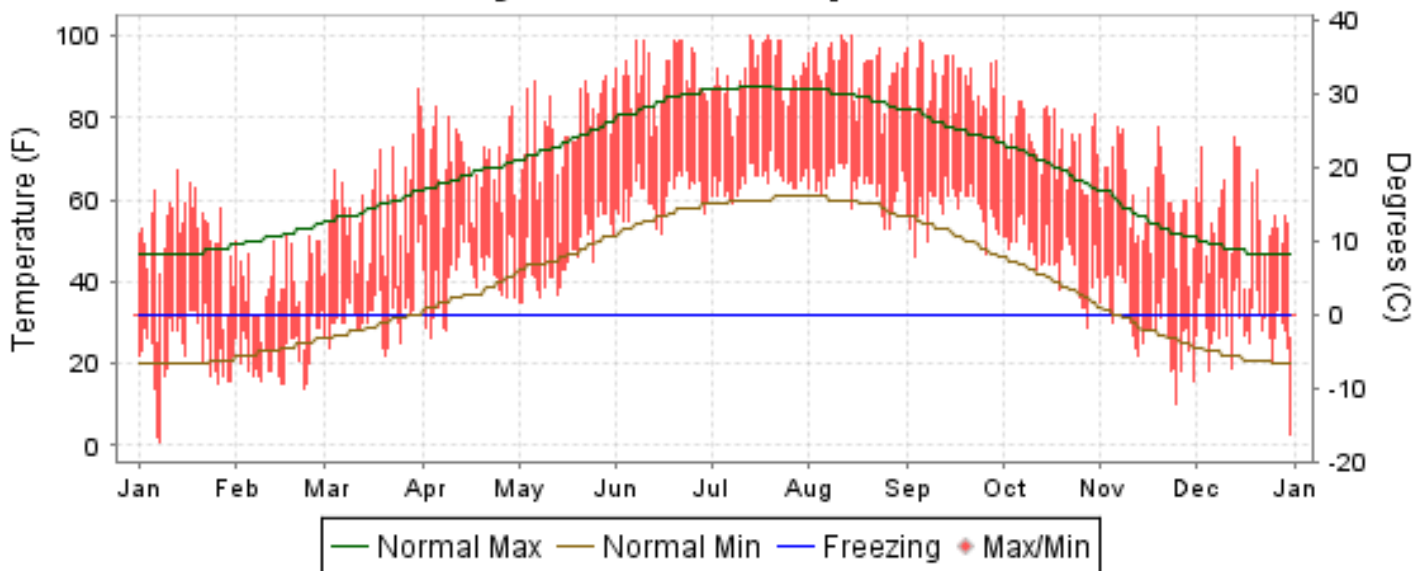


# 2010 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

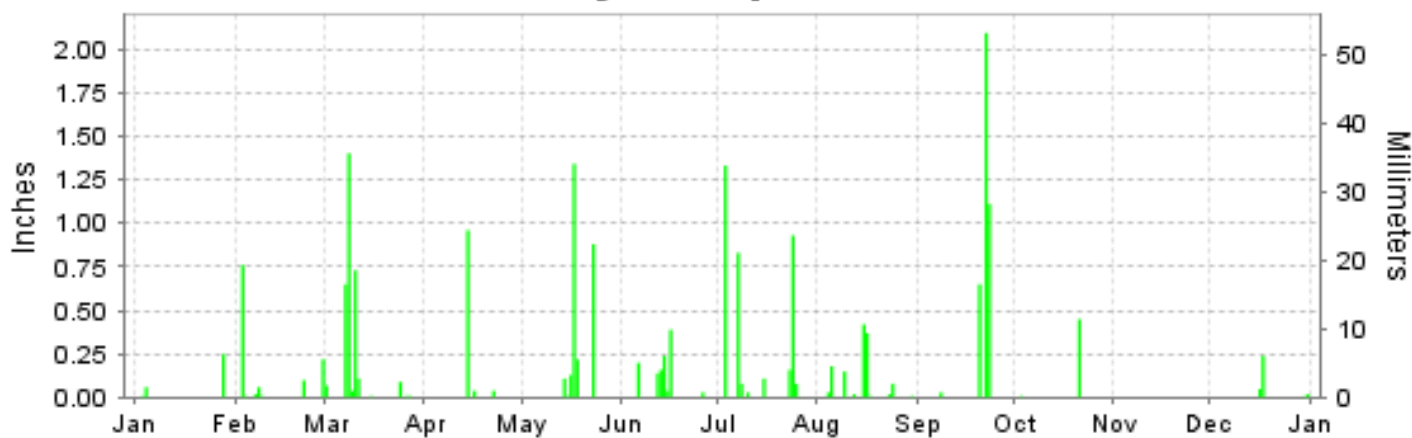
ISSN 0198-3490

## CLAYTON, NEW MEXICO (KCAO)

### Daily Max/Min Temperature



### Daily Precipitation



### Daily Station Pressure




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# METEOROLOGICAL DATA FOR 2010

## CLAYTON (KCAO)

LATITUDE: 36° 26'N      LONGITUDE: -103° 9'W      ELEVATION (FT): GRND: 4960 BARO: 4971      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	51.3	40.2	58.1	68.8	76.6	90.1	90.9	92.5	88.5	74.3	60.7	53.6	70.5	
	HIGHEST DAILY MAXIMUM	67	51	87	83	90	99	100	100	99	85	78	75	100	
	DATE OF OCCURRENCE	13	24+	30	29+	29	22+	19+	14+	05	01	19+	13	AUG 14+	
	MEAN DAILY MINIMUM	22.5	21.9	32.3	41.0	46.3	61.2	64.8	63.4	57.8	45.8	29.4	28.8	42.9	
	LOWEST DAILY MINIMUM	1	14	22	26	35	52	59	53	46	29	10	3	1	
	DATE OF OCCURRENCE	08	22	20	03	02+	15	08	26+	03	28	25	31	JAN 08	
	AVERAGE DRY BULB	36.9	31.1	45.2	54.9	61.5	75.7	77.9	78.0	73.2	60.1	45.1	41.2	56.7	
	MEAN WET BULB		27.0	36.0	43.6	49.6		64.6	62.9	57.7	47.6	34.0	32.5		
	MEAN DEW POINT		20.8	24.2	29.2	37.7		57.8	54.3	46.5	35.5	17.0	20.1		
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	1	16	18	24	16	0	0	0	0	75
MAXIMUM <= 32°	3	5	0	0	0	0	0	0	0	0	0	3	0	11	
MINIMUM <= 32°	27	27	18	5	0	0	0	0	0	1	21	22	0	121	
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
H/C	HEATING DEGREE DAYS	862	940	612	299	160	0	0	0	2	169	589	730	4363	
	COOLING DEGREE DAYS	0	0	8	3	55	326	406	409	255	21	0	0	1483	
RH	MEAN (PERCENT)	46	68	53	46	48	47	55	50	46	46	38	50	49	
	HOUR 05 LST	54	71	66	62	64	61	72	69	65	61	51	59	63	
	HOUR 11 LST	31	59	40	32	31	32	38	30	27	30	24	37	34	
	HOUR 17 LST	45	72	47	38	37	32	42	37	35	44	36	51	43	
	HOUR 23 LST	55	74	65	55	61	63	72	66	62	57	47	59	61	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	1	6	5	3	4	0	2	2	1	1	0	2	27	
	THUNDERSTORMS	0	0	0	0	0	0	0	0	0	0	0	0	0	
CLOUDNESS	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	24.95	24.94	24.89	24.95	25.03	25.08	25.08	25.07	25.09	24.99	24.98	25.00	
	MEAN SEA-LEVEL PRESS. (IN.)	30.01	30.00	29.90	29.77	29.81	29.84	29.88	29.89	29.89	29.99	29.97	29.96	29.91	
WINDS	RESULTANT SPEED (MPH)	3.9	3.5	5.9	6.2	5.9		6.8	5.3	4.3	4.5	5.9	4.0		
	RES. DIR. (TENS OF DEGS.)	28	29	31	22	19		19	20	20	25	26	24		
	MEAN SPEED (MPH)	11.5	10.4	13.4	15.0	14.4	12.8	12.0	11.5	12.4	11.0	12.3	11.4	12.3	
	PREVAIL.DIR.(TENS OF DEGS.)	25	24	35	22	18	20	20	20	20	21	24	21	20	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	39	37	51	54	45	43	36	39	39	37	48	40	54	
	DIR. (TENS OF DEGS.)	20	36	32	20	15	20	01	15	17	26	35	20	20	
	DATE OF OCCURRENCE	22	14	08	01	23	16	03	15	22	25	17	30	APR 01	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	49	44	61	64	60	53	45	45	48	48	61	49	64	
DIR. (TENS OF DEGS.)	20	36	31	21	15	20	31	15	17	26	35	21	21		
DATE OF OCCURRENCE	22	14	08	01	23	16	14	15	22	25	17	30	APR 01		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	0.32	1.18	3.12	1.04	2.69	1.20	3.55	1.29	3.88	0.46	T	0.32	19.05	
	GREATEST 24-HOUR (IN.)	0.25	0.77	2.05	0.96	1.34	0.43	1.33	0.47	3.20	0.45	T	0.29	3.20	
	DATE OF OCCURRENCE	28	03-04	07-08	14	17	15-16	03	15-16	22-23	21	17+	16-17	SEP 22-23	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	3	7	10	3	6	7	8	10	4	2	0	4	64	
PRECIPITATION 0.10	1	3	4	1	5	5	5	4	3	1	0	1	33		
PRECIPITATION 1.00	0	0	1	0	1	0	1	0	2	0	0	0	5		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	12.0	12.9	3.7	T	0.0	0.0	0.0	0.0	0.0	0.0	T	3.0	31.6	
	GREATEST 24-HOUR (IN.)	10.7	7.0	1.5	T	0.0	0.0	0.0	0.0	0.0	0.0	T	2.4	10.7	
	DATE OF OCCURRENCE	28	03	11	26+							17+	17	JAN 28	
	MAXIMUM SNOW DEPTH (IN.)	10	10	2	0	0	0	0	0	0	0	0	3	10	
	DATE OF OCCURRENCE	29	04	01									18	FEB 04	
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	2	4	2	0	0	0	0	0	0	0	0	1	9		

# NORMALS, MEANS, AND EXTREMES CLAYTON (KCAO)

LATITUDE: 36° 26'N      LONGITUDE: -103° 9'W      ELEVATION (FT): GRND: 4960 BARO: 4971      TIME ZONE: MOUNTAIN (UTC -7)      WBAN: 23051

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	47.4	51.5	58.2	66.1	74.2	83.9	87.4	85.1	77.9	68.5	55.7	48.0	67.0
	MEAN DAILY MAXIMUM	99	47.3	49.1	56.9	65.1	73.6	82.8	87.2	85.4	78.0	69.0	55.9	48.7	66.6
	HIGHEST DAILY MAXIMUM	62	80	81	87	91	99	104	103	102	99	93	86	83	104
	YEAR OF OCCURRENCE		1990	1963	2010	1965	2000	1998	2009	2007	2010	2000	2006	1955	JUN 1998
	MEAN OF EXTREME MAXS.	100	69.7	71.0	77.4	82.9	89.0	95.7	96.8	94.3	90.7	84.9	76.5	70.0	83.2
	NORMAL DAILY MINIMUM	30	20.3	23.7	29.2	37.2	46.7	55.9	60.2	59.2	51.5	40.6	28.7	21.6	39.6
	MEAN DAILY MINIMUM	99	19.8	21.8	27.4	35.8	45.1	53.8	59.1	58.3	50.5	40.2	28.0	21.3	38.4
	LOWEST DAILY MINIMUM	62	-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.	100	1.4	5.6	11.6	22.2	32.7	44.9	52.8	51.6	38.4	26.1	12.1	3.8	25.3
	NORMAL DRY BULB	30	33.9	37.6	43.7	51.7	60.5	69.9	73.8	72.2	64.7	54.6	42.2	34.8	53.3
	MEAN DRY BULB	98	33.6	35.5	42.2	50.5	59.4	68.3	73.2	71.9	64.3	54.6	42.0	35.0	52.5
	MEAN WET BULB	23	25.2	26.6	29.5	32.8	39.3	44.4	48.3	47.9	43.2	36.4	29.3	25.9	35.7
	MEAN DEW POINT	23	18.9	19.9	23.8	26.8	33.2	38.0	42.3	42.2	37.1	30.3	23.6	19.2	29.6
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.1	0.6	7.9	11.6	7.6	1.9	*	0.0	0.0	29.7
	MAXIMUM <= 32	30	5.0	3.3	1.0	0.2	0.0	0.0	0.0	0.0	0.0	0.2	1.5	4.1	15.3
MINIMUM <= 32	30	29.5	24.1	21.1	8.3	0.9	0.0	0.0	0.0	0.4	4.9	20.3	28.3	137.8	
MINIMUM <= 0	30	1.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.1	3.1	
H/C	NORMAL HEATING DEG. DAYS	30	964	767	661	407	179	27	1	7	85	325	685	937	5045
	NORMAL COOLING DEG. DAYS	30	0	0	0	6	37	173	274	228	77	2	0	0	797
RH	NORMAL (PERCENT)	30													
	HOUR 05 LST	30	66	64	65	66	71	70	76	76	72	67	66	63	69
	HOUR 11 LST	30	46	41	40	36	39	37	40	43	41	39	41	44	41
	HOUR 17 LST	30													
	HOUR 23 LST	30													
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	19	2.2	2.7	3.1	2.3	1.3	0.8	0.5	0.9	0.4	2.2	1.5	1.9	19.8
	THUNDERSTORMS	25	0.0	0.3	0.3	0.8	2.6	3.6	4.5	4.0	1.2	0.7	0.0	0.0	18.0
CLOUDNESS	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)	24	25.02	24.99	24.98	24.97	25.00	25.02	25.07	25.08	25.06	25.04	25.03	25.01	25.02
	MEAN SEA-LEVEL PRES. (IN)	24	30.05	30.01	29.98	29.93	29.93	29.92	29.97	29.98	29.99	30.00	30.04	30.04	29.99
WINDS	MEAN SPEED (MPH)	24	11.4	11.9	12.3	13.1	12.4	12.0	11.2	10.7	11.2	11.5	11.6	11.5	11.7
	PREVAIL.DIR(TENS OF DEGS)	20	25	25	25	21	20	20	20	20	20	21	25	26	20
	MAXIMUM 2-MINUTE: SPEED (MPH)	14	48	51	51	54	47	52	54	44	45	47	48	46	54
	DIR. (TENS OF DEGS)		20	02	32	20	35	18	15	33	29	31	35	32	20
	YEAR OF OCCURRENCE		1999	2009	2010	2010	2008	2006	1998	1998	2006	2006	2010	2003	APR 2010
	MAXIMUM 3-SECOND SPEED (MPH)	14	57	64	61	64	70	71	61	55	56	58	61	56	71
	DIR. (TENS OF DEGS)		19	02	31	21	14	25	24	05	04	31	35	23	25
YEAR OF OCCURRENCE		1999	2009	2010	2010	2008	2009	2003	1998	2009	2006	2010	2008	JUN 2009	
PRECIPITATION	NORMAL (IN)	30	0.30	0.27	0.62	0.99	2.08	2.21	2.81	2.69	1.56	0.74	0.54	0.32	15.13
	MAXIMUM MONTHLY (IN)	62	1.30	1.61	3.12	5.34	6.77	4.97	7.77	5.83	5.22	4.94	2.16	2.54	7.77
	YEAR OF OCCURRENCE		2001	1987	2010	2004	1949	1989	1950	1991	1960	2000	2004	2006	JUL 1950
	MINIMUM MONTHLY (IN)	62	T	T	0.01	0.04	0.06	0.19	0.25	0.28	T	T	T	0.00	0.00
	YEAR OF OCCURRENCE		2009	1991	1966	1991	2002	1955	2005	1983	1956	1992	2010	1957	DEC 1957
	MAXIMUM IN 24 HOURS (IN)	62	0.71	0.88	2.05	2.42	4.67	2.86	2.69	4.41	3.48	3.90	1.58	1.50	4.67
	YEAR OF OCCURRENCE		1960	1987	2010	1980	1954	1984	2069	1963	1960	1965	1961	2006	MAY 1954
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	4.0	3.3	4.5	5.2	8.1	7.9	9.5	9.1	5.9	3.5	4.2	3.8	69.0
	PRECIPITATION >= 1.00	30	0.0	0.0	0.0	0.1	0.4	0.4	0.6	0.6	0.4	0.1	0.1	0.0	2.7
SNOWFALL	NORMAL (IN)	30	4.9	3.6	4.9	2.1	0.7	0.0	0.0	0.0	0.3	0.8	3.5	4.7	25.5
	MAXIMUM MONTHLY (IN)	54	12.0	15.8	17.5	10.9	8.0	T	0.0	T	5.0	8.0	14.8	34.4	34.4
	YEAR OF OCCURRENCE		2010	1990	2009	1955	1978	2008		1992	1984	1984	1961	2006	DEC 2006
	MAXIMUM IN 24 HOURS (IN)	52	10.7	10.0	11.5	10.9	7.6	T	0.0	T	5.0	6.0	12.7	8.1	12.7
	YEAR OF OCCURRENCE		2010	1990	2009	1955	1978	1992		1992	1984	1984	1961	1958	NOV 1961
	MAXIMUM SNOW DEPTH (IN)	51	22	11	10	11	6	0	0	0	4	6	12	28	28
	YEAR OF OCCURRENCE		2007	1990	1973	1955	1990				1984	1984	1961	2006	DEC 2006
NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	1.9	1.4	1.9	0.7	0.2	0.0	0.0	0.0	0.1	0.3	1.3	1.5	9.3	

**PRECIPITATION (inches) 2010 CLAYTON (KCAO)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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
1998	T	0.77	1.51	1.36	0.37	0.44	2.77	3.36	0.65	3.14	0.57	0.10	15.04
1999	0.18	T	0.43	4.33	2.47	0.52	4.59	2.07	2.81	2.37	0.03	0.17	19.97
2000	0.35	0.08	2.67	0.04	0.90	2.19	2.89	1.31	0.01	4.94	0.07	0.01	15.46
2001	1.30	0.32	0.79	0.05	2.98	1.47	1.28	1.66	1.09	T	0.79	0.06	11.79
2002	0.15	0.01	0.03	0.80	0.06	0.97	1.35	1.48	4.48	0.90	0.59	0.75	11.57
2003	T	0.07	0.89	0.43	1.44	4.75	T	1.43	0.43	0.63	0.59	0.19	10.85
2004	0.07	0.14	0.63	5.34	0.43	4.89	3.57	4.08	1.25	0.40	2.16	0.31	23.27
2005	0.96	0.48	0.98	0.94	3.37	1.76	0.25	3.91	1.54	0.41	0.16	T	14.76
2006	0.04	0.01	0.40	0.62	0.66	1.18	3.94	4.05	0.84	0.67	0.06	2.54	15.01
2007	0.34	0.07	1.60	0.64	3.62	1.54	1.71	0.57	1.77	0.15	0.03	0.34	12.38
2008	0.04	0.25	1.73	0.06	0.48	0.78	2.28	5.03	0.43	0.91	0.11	0.05	12.15
2009	T	0.64	0.71	0.63	0.68	1.71	3.15	1.52	0.79	1.93	0.06	0.10	11.92
2010	0.32	1.18	3.12	1.04	2.69	1.20	3.55	1.29	3.88	0.46	T	0.32	19.05
POR= 99 YRS	0.28	0.39	0.73	1.23	2.28	1.89	2.63	2.38	1.67	1.12	0.49	0.37	15.46

WBAN : 23051

**AVERAGE TEMPERATURE (°F) 2010 CLAYTON (KCAO)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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
1998	38.1	37.5	40.3	48.8	65.0	71.3	76.8	72.1	71.2	54.9	46.5	34.9	54.8
1999	38.0	43.4	43.6	49.9	58.9	69.2	72.7	73.9	63.7	54.7	50.3	37.3	54.6
2000	37.6	44.3	44.4	54.1	65.8	70.0	75.8	77.2	69.8	54.8	36.6	32.9	55.3
2001	30.7	36.3	41.9	56.1	60.5	70.9	79.0	74.1	67.2	56.4	46.8	36.9	54.7
2002	36.0	36.2	41.7	56.6	63.3	75.4	76.7	75.2	66.0	50.1	43.2	34.0	54.5
2003	39.6	34.2	45.6	53.8	62.6	65.8	78.9	75.7	64.8	59.5	44.1	38.9	55.3
2004	36.6	35.2	49.3	50.5	65.7	68.9	71.4	68.8	65.2	54.8	40.2	38.1	53.7
2005	37.3	39.2	41.7	51.8	60.4	70.0	76.1	72.3	68.2	56.6	47.5	36.3	54.8
2006	41.1	37.7	44.0	57.6	65.3	75.2	76.1	72.4	61.3	53.4	45.8	34.8	55.4
2007	28.1	37.2	49.7	49.3	60.8	68.8	75.4	78.3	69.3	58.9	46.2	33.7	54.6
2008	34.5	38.0	44.7	52.6	62.0	73.5	75.9	73.4	65.9	56.6	47.2	36.5	55.1
2009	38.8	43.1	46.8	52.5	63.2	72.9	76.3	75.0	66.1	50.9	48.9	31.2	55.5
2010	36.9	31.1	45.2	54.9	61.5	75.7	77.9	78.0	73.2	60.1	45.1	41.2	56.7
POR= 98 YRS	33.6	35.5	42.2	50.5	59.4	68.3	73.2	71.9	64.3	54.6	42.0	35.0	52.5

**HEATING DEGREE DAYS (base 65°F) 2010 CLAYTON (KCAO)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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
1997-98	2	5	60	342	755	1020	828	766	756	480	79	33	5126
1998-99	0	0	8	312	551	928	827	596	656	444	206	25	4553
1999-00	12	0	116	316	434	851	843	593	631	324	103	16	4239
2000-01	0	0	65	335	845	986	1057	799	706	264	166	11	5234
2001-02	0	0	45	269	538	866	894	800	716	265	121	12	4526
2002-03	0	1	63	460	648	954	781	857	592	330	127	44	4857
2003-04	0	10	69	208	623	802	873	859	480	429	81	12	4446
2004-05	16	14	78	308	738	828	853	718	712	391	179	20	4855
2005-06	0	6	26	274	516	885	735	758	645	244	106	0	4195
2006-07	0	3	122	366	574	928	1138	772	466	461	139	23	4992
2007-08	0	0	21	221	558	964	938	778	623	370	153	1	4627
2008-09	0	14	31	261	525	878	805	608	559	371	117	8	4177
2009-10	1	0	82	436	477	1044	862	940	612	299	160	0	4913
2010-	0	0	2	169	589	730							

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**COOLING DEGREE DAYS (base 65°F) 2010 CLAYTON (KCAO)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
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
1998	0	0	0	3	87	229	371	227	203	6	0	0	1126
1999	0	0	0	0	24	156	259	283	83	5	0	0	810
2000	0	0	0	4	134	173	340	382	215	29	0	0	1277
2001	0	0	0	7	31	196	438	290	119	8	0	0	1089
2002	0	0	0	18	74	329	369	323	100	2	0	0	1215
2003	0	0	0	0	59	75	441	348	73	45	0	0	1041
2004	0	0	0	0	107	136	222	139	92	0	0	0	696
2005	0	0	0	0	43	176	355	241	125	21	0	0	961
2006	0	0	0	31	120	314	350	238	18	22	4	0	1097
2007	0	0	0	0	15	147	331	417	157	37	0	0	1104
2008	0	0	0	4	68	263	345	281	65	10	0	0	1036
2009	0	0	0	4	68	253	358	314	118	8	2	0	1125
2010	0	0	8	3	55	326	406	409	255	21	0	0	1483

**SNOWFALL (inches) 2010 CLAYTON (KCAO)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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													
1997-98													
1998-99													
1999-00													
2000-01													
2001-02													
2002-03													
2003-04										4.5	T	0.0	
2004-05	0.0	0.0	0.0	0.0	12.1	3.9	8.0	T	13.7	0.4	6.2	0.0	44.3
2005-06	0.0	0.0	0.0	T	1.5	T	1.5	0.3	4.3	0.0	0.0	0.0	7.6
2006-07	0.0	0.0	0.0	T	3.0	34.4	5.4	2.0	1.0	2.5	0.0	0.0	48.3
2007-08	0.0	0.0	0.0	T	1.1	8.7	1.6	0.7	2.4	0.1	0.0	T	14.6
2008-09	0.0	0.0	0.0	0.0	0.2	2.3	0.2	0.1	17.5	T	0.0	0.0	20.3
2009-10	0.0	0.0	0.0	0.5	0.8	1.3	12.0	12.9	3.7	T	0.0	0.0	31.2
2010-	0.0	0.0	0.0	0.0	T	3.0							
POR= 94 YRS	0.0	T	0.1	0.5	3.0	4.6	3.2	3.8	4.8	2.1	0.5	T	22.6

WBAN : 23051

**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 (1971 - 2000). 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. 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.</p>	<p>GENERAL CONTINUED: 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. 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. STATION HISTORY STOPPED WITH THE 2009 ANNUAL. IF YOU NEED HISTORY GO TO "MULTI-NETWORK MEDADATA SYSTEM", URL IS: <a href="https://mi3.ncdc.noaa.gov/mi3qry/login.cfm">https://mi3.ncdc.noaa.gov/mi3qry/login.cfm</a> SNOWFALL STOPPED MONTH &amp; YEAR INDICATED ABOVE. NO FURTHER YEARS INCLUDED UNLESS RESTARTED.</p> <p><b>NOTE:</b> The "Period of Record:(POR) for all "averages" is based on the "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.</p>
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# 2010 CLAYTON NEW MEXICO (KCAO)

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.

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