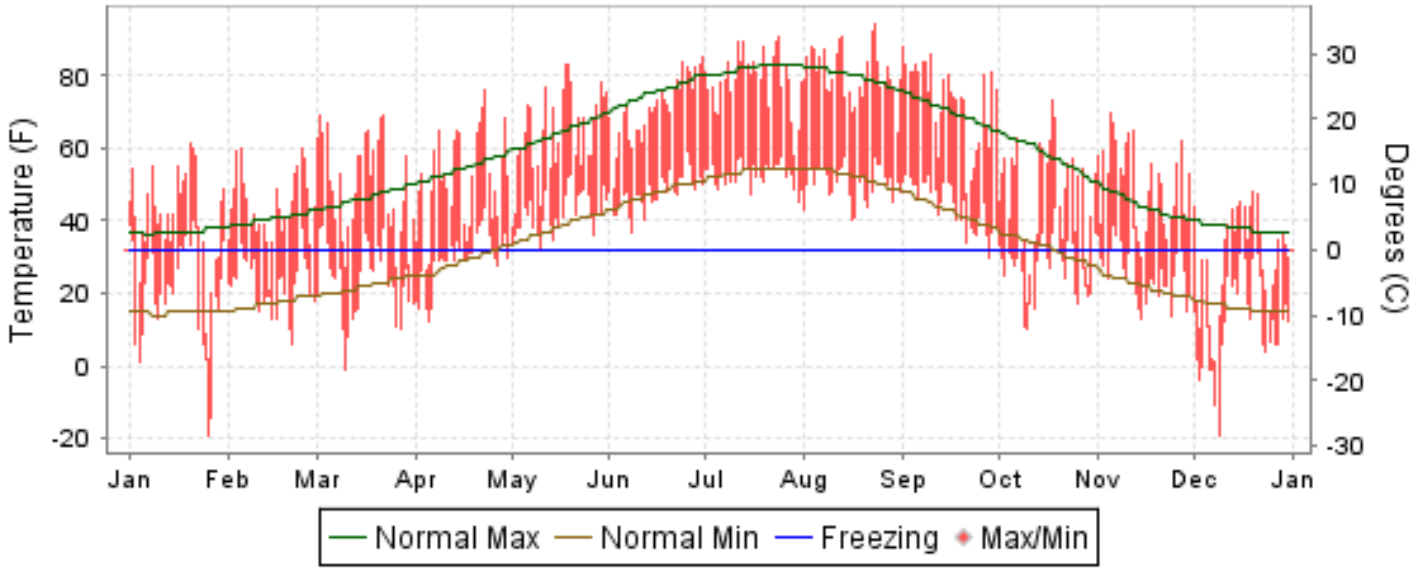
2009
LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA

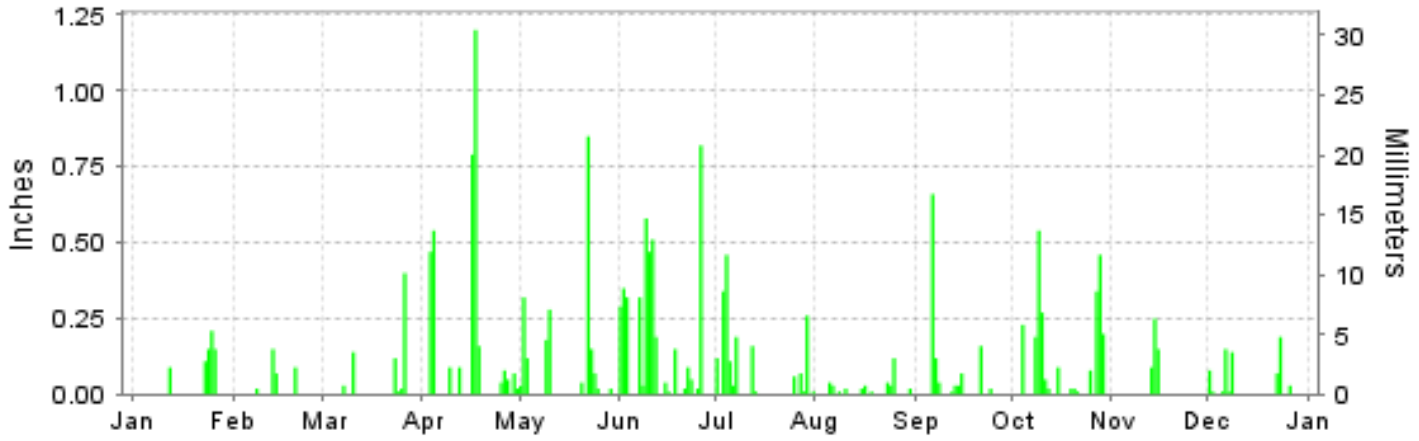
ISSN 0198-5787

CHEYENNE,
WYOMING (KCYS)

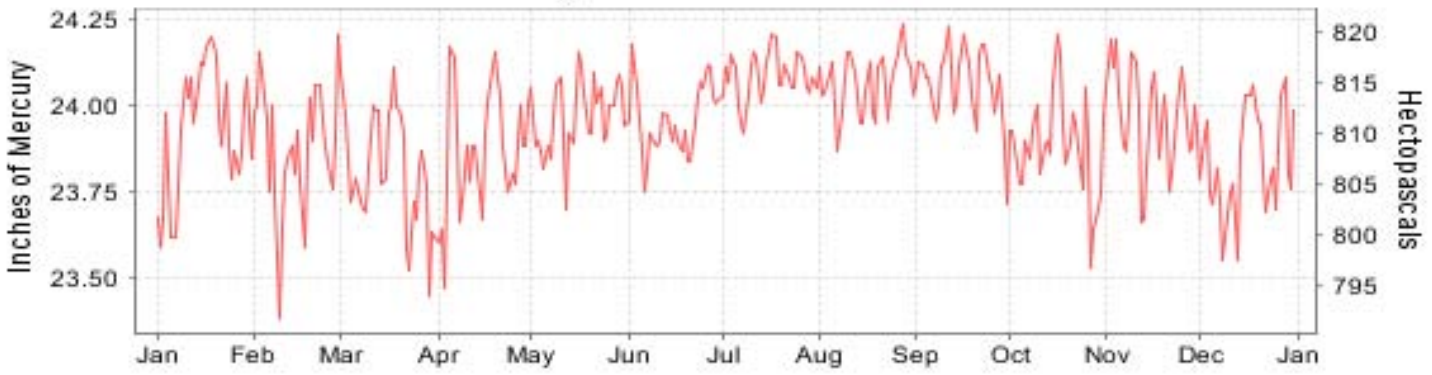
Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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NATIONAL
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ATMOSPHERIC ADMINISTRATION

NATIONAL
ENVIRONMENTAL SATELLITE, DATA
AND INFORMATION SERVICE

NATIONAL
CLIMATIC DATA CENTER
ASHEVILLE, NORTH CAROLINA

METEOROLOGICAL DATA FOR 2009
CHEYENNE (KCYS)

LATITUDE: 41 ° 9 'N **LONGITUDE:** -104° 48'W **ELEVATION (FT):** GRND: 6115 BARO: 6128 **TIME ZONE:** MOUNTAIN (UTC -7) **WBAN:** 24018

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	MEAN DAILY MAXIMUM	40.5	44.0	50.1	51.6	64.3	71.2	79.0	80.5	72.8	46.9	50.2	29.7	56.7
	HIGHEST DAILY MAXIMUM	61	60	69	76	83	85	91	94	88	73	70	48	94
	DATE OF OCCURRENCE	20	24+	22	23	19+	30	24	23	01	18	05	20	AUG 23
	MEAN DAILY MINIMUM	20.1	22.3	23.2	29.5	42.2	47.9	52.9	50.5	44.5	27.1	25.7	11.7	33.1
	LOWEST DAILY MINIMUM	-19	6	-1	12	32	37	45	40	30	10	13	-19	-19
	DATE OF OCCURRENCE	26	21	10	05	10	08	30	16	28	10	15	09	DEC 09
	AVERAGE DRY BULB	30.3	33.2	36.7	40.6	53.3	59.6	66.0	65.5	58.7	37.0	38.0	20.7	45.0
	MEAN WET BULB	23.7		28.2		43.9	50.9	55.0	52.5	47.3		30.0	18.6	
	MEAN DEW POINT	10.5		12.8		33.9	44.6	47.3	42.2	37.1		18.3	8.5	
	NUMBER OF DAYS WITH:													
	MAXIMUM >= 90°	0	0	0	0	0	0	1	4	0	0	0	0	5
	MAXIMUM <= 32°	6	1	3	2	0	0	0	0	0	5	1	15	33
	MINIMUM <= 32°	23	26	24	21	1	0	0	0	1	23	25	31	175
	MINIMUM <= 0°	2	0	1	0	0	0	0	0	0	0	0	6	9
H/C	HEATING DEGREE DAYS	1070	885	869	726	360	175	43	51	203	858	804	1367	7411
	COOLING DEGREE DAYS	0	0	0	0	4	20	82	73	22	0	0	0	201
RH	MEAN (PERCENT)	49	50	44	60	54	64	58	49	51	61	50	57	54
	HOUR 05 LST	54	56	58	71	64	75	71	67	67	69	57	57	64
	HOUR 11 LST	41	36	31	48	42	48	38	29	31	46	37	47	40
	HOUR 17 LST	50	48	36	53	44	59	48	38	41	61	52	61	49
	HOUR 23 LST	54	60	54	71	67	78	72	65	67	72	59	62	65
S	PERCENT POSSIBLE SUNSHINE													
W/O	NUMBER OF DAYS WITH:													
	HEAVY FOG(VISBY <= 1/4 MI)	0	0	0	0	0	0	0	0	0	3	0	0	3
	THUNDERSTORMS	0	0	0	0	0	1	0	0	0	0	0	0	1
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.)	23.92	23.88	23.82	23.86	23.97	23.96	24.08	24.07	24.07	23.89	23.97	23.83	23.94
	MEAN SEA-LEVEL PRESS. (IN.)	30.07	30.00	29.89	29.91	29.92	29.86	29.97	29.95	30.00	29.97	30.07	30.04	29.97
WINDS	RESULTANT SPEED (MPH)	12.4	8.4	7.0	4.6	4.6	3.3	1.3	2.4	2.9	6.1	6.5	8.4	5.4
	RES. DIR. (TENS OF DEGS.)	29	27	29	31	28	22	27	27	29	30	28	30	29
	MEAN SPEED (MPH)	16.2	12.8	13.2	13.5	11.5	9.1	8.1	8.6	10.2	12.7	9.9	12.9	11.6
	PREVAIL.DIR.(TENS OF DEGS.)	28	28	28	28	28	18	28	28	28	36	28	28	28
	MAXIMUM 2-MINUTE WIND													
	SPEED (MPH)	52	46	44	38	44	35	30	33	47	41	36	44	52
	DIR. (TENS OF DEGS.)	28	28	33	33	29	29	29	29	28	33	27	33	28
	DATE OF OCCURRENCE	07	20	30	26	13	21	27	15	30	01	06	25	JAN 07
	MAXIMUM 3-SECOND WIND:													
	SPEED (MPH)	67	62	61	51	56	45	40	46	60	53	44	55	67
	DIR. (TENS OF DEGS.)	28	28	31	32	28	23	28	02	28	33	27	32	28
	DATE OF OCCURRENCE	01	27	22	26	13	18	27	03	30	01	06	26	JAN 01
PRECIPITATION	WATER EQUIVALENT:													
	TOTAL (IN.)	0.71	0.33	0.72	3.60	2.08	4.26	1.83	0.37	1.14	2.52	0.49	0.69	18.74
	GREATEST 24-HOUR (IN.)	0.36	0.15	0.40	1.20	0.98	0.84	0.53	0.12	0.66	0.62	0.40	0.26	1.20
	DATE OF OCCURRENCE	25-26	13	26	17	22-23	25-26	04-05	25	06	09-10	14-15	22-23	APR 17
	NUMBER OF DAYS WITH:													
	PRECIPITATION 0.01	5	4	6	12	11	17	13	11	9	14	3	9	114
	PRECIPITATION 0.10	4	1	3	5	6	10	7	1	3	7	2	3	52
	PRECIPITATION 1.00	0	0	0	1	0	0	0	0	0	0	0	0	1
SNOWFALL	SNOW,ICE PELLETS,HAIL	12.8	5.9	9.3	27.7	0.1	0.0	0.0	0.0	T	28.2	6.7	16.4	107.1
	TOTAL (IN.)	4.1	3.7	4.9	9.8	0.1	0.0	0.0	0.0	T	6.7	3.0	4.7	9.8
	GREATEST 24-HOUR (IN.)	25	13	26	17	10				22+	28	14	06	APR 17
	DATE OF OCCURRENCE	7	3	4	7	0	0	0	0	0	11	5	5	11
	MAXIMUM SNOW DEPTH (IN.)	26	15	27	18+						30	15	09	OCT 30
	DATE OF OCCURRENCE													
	NUMBER OF DAYS WITH:													
	SNOWFALL >= 1.0	5	3	3	6	0	0	0	0	0	7	3	6	33

NORMALS, MEANS, AND EXTREMES
CHEYENNE (KCYS)

LATITUDE: 41 ° 9 'N **LONGITUDE:** -104° 48'W **ELEVATION (FT):** GRND: 6115 BARO: 6128 **TIME ZONE:** MOUNTAIN (UTC -7) **WBAN:** 24018

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	37.1	40.5	46.4	54.4	64.4	75.4	81.9	79.8	70.3	58.2	44.5	38.1	57.6
	MEAN DAILY MAXIMUM	44	37.7	37.2	44.9	52.0	63.1	72.2	82.9	80.1	69.4	59.1	45.7	39.1	57.0
	HIGHEST DAILY MAXIMUM	74	66	71	74	83	91	100	100	98	95	83	75	69	100
	YEAR OF OCCURRENCE		2005	1962	2004	1992	2003	1954	1939	2008	1995	1992	1999	1939	JUN 1954
	MEAN OF EXTREME MAXS.	44	58.1	60.5	68.1	75.3	84.4	90.1	95.4	93.9	86.6	77.5	67.8	57.2	76.2
	NORMAL DAILY MINIMUM	30	14.8	17.2	22.0	28.7	38.3	47.5	53.4	52.0	42.9	32.5	22.1	16.1	32.3
	MEAN DAILY MINIMUM	44	16.1	16.3	22.2	29.1	38.7	46.5	55.0	53.2	42.7	33.6	23.5	17.8	32.9
	LOWEST DAILY MINIMUM	74	-29	-34	-21	-8	16	25	38	36	8	-1	-16	-28	-34
	YEAR OF OCCURRENCE		1984	1936	1943	1975	1947	1951	1952	1975	1985	1991	1993	1990	FEB 1936
	MEAN OF EXTREME MINS.	44	-3.6	-2.3	8.5	16.4	26.1	36.3	48.8	45.2	31.4	18.0	3.1	-3.1	18.7
	NORMAL DRY BULB	30	25.9	28.8	34.2	41.6	51.3	61.5	67.7	65.9	56.6	45.4	33.3	27.1	44.9
	MEAN DRY BULB	44	26.9	26.8	33.6	40.6	50.9	59.6	69.0	66.7	56.1	46.4	34.6	28.5	45.0
	MEAN WET BULB	11	19.3	20.9	24.8	31.8	39.8	46.6	52.6	52.0	43.4	34.6	24.5	19.3	34.1
	MEAN DEW POINT	11	17.2	16.8	22.9	28.6	37.4	44.8	49.3	48.3	40.2	30.9	22.1	16.3	31.2
	NORMAL NO. DAYS WITH:														
	MAXIMUM >= 90	30	0.0	0.0	0.0	0.0	*	1.0	4.9	2.0	0.4	0.0	0.0	0.0	8.3
	MAXIMUM <= 32	30	9.1	6.7	4.1	1.6	*	0.0	0.0	0.0	0.2	0.8	5.2	8.9	36.6
	MINIMUM <= 32	30	28.8	26.2	26.8	18.4	3.8	*	0.0	0.0	2.1	12.2	24.7	28.6	171.6
	MINIMUM <= 0	30	4.2	2.5	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.8	3.2	11.5
H/C	NORMAL HEATING DEG. DAYS	30	1197	1001	939	686	414	136	29	42	255	593	936	1160	7388
	NORMAL COOLING DEG. DAYS	30	0	0	0	0	1	41	126	86	19	0	0	0	273
RH	NORMAL (PERCENT)	30	56	57	58	58	59	56	52	55	54	55	57	57	56
	HOUR 05 LST	30	60	63	67	70	75	73	71	72	68	64	62	60	67
	HOUR 11 LST	30	48	46	46	45	45	40	37	37	38	41	46	47	43
	HOUR 17 LST	30	52	49	46	44	46	41	38	40	39	42	53	53	45
	HOUR 23 LST	30	61	63	65	67	70	65	63	66	63	62	63	60	64
S	PERCENT POSSIBLE SUNSHINE	64	64	67	67	63	61	67	69	68	70	69	61	60	66
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	11	1.6	2.5	3.9	4.1	2.0	1.4	0.9	1.2	0.8	2.7	1.5	1.8	24.4
	THUNDERSTORMS	11	0.0	0.1	0.2	1.5	4.3	8.0	9.5	7.4	4.0	0.7	0.2	0.0	35.9
CLOUDNESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)														
	MIDNIGHT-MIDNIGHT (OKTAS)														
	MEAN NO. DAYS WITH:														
	CLEAR	1	4.0	7.0	5.0		4.0	13.0							
	PARTLY CLOUDY	1	3.0	6.0	5.0		12.0	8.0							
	CLOUDY	1	3.0	4.0	11.0		13.0	7.0							
PR	MEAN STATION PRESSURE(IN)	11	23.91	23.88	23.87	23.88	23.93	23.98	24.07	24.07	24.03	23.98	23.96	23.89	23.95
	MEAN SEA-LEVEL PRES. (IN)	11	30.06	30.02	29.95	29.90	29.87	29.87	29.92	29.95	29.96	29.99	30.06	30.05	29.97
WINDS	MEAN SPEED (MPH)	11	14.0	13.6	13.6	13.2	12.0	10.8	9.5	9.8	10.2	11.6	12.7	13.7	12.1
	PREVAIL.DIR(TENS OF DEGS)	30	29	29	29	29	29	29	29	29	29	29	29	29	29
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	14	55	59	59	55	54	52	46	56	48	53	59	63	63
	DIR. (TENS OF DEGS)		27	27	28	30	27	28	20	25	28	26	27	27	27
	YEAR OF OCCURRENCE		2003	1999	2004	1999	2005	2008	2001	1996	2005	2001	1999	1998	DEC 1998
	MAXIMUM 3-SECOND														
	SPEED (MPH)	14	69	71	69	69	67	66	59	60	60	63	68	75	75
	DIR. (TENS OF DEGS)		27	27	29	32	31	29	32	25	28	26	27	26	26
	YEAR OF OCCURRENCE		2003	1999	2004	1999	2008	2008	1996	1996	2009	2001	1999	1998	DEC 1998
PRECIPITATION	NORMAL (IN)	30	0.45	0.44	1.05	1.55	2.48	2.12	2.26	1.82	1.43	0.75	0.64	0.46	15.45
	MAXIMUM MONTHLY (IN)	74	2.78	2.16	3.65	5.04	6.00	5.32	5.01	6.64	4.52	3.57	2.48	1.68	6.64
	YEAR OF OCCURRENCE		1949	1953	1990	1942	1995	1955	1973	1985	1973	1942	1979	1937	AUG 1985
	MINIMUM MONTHLY (IN)	74	T	T	0.12	0.34	0.11	0.07	0.43	0.03	0.01	0.03	T	0.03	T
	YEAR OF OCCURRENCE		1952	1983	1966	1992	1974	1980	2008	1944	1992	1964	1965	1959	FEB 1983
	MAXIMUM IN 24 HOURS (IN)	74	1.41	1.60	1.88	1.94	2.07	2.68	3.42	6.06	2.75	1.70	1.66	1.19	6.06
	YEAR OF OCCURRENCE		1949	1953	1946	1984	1991	1955	1973	1985	1973	1947	1979	1979	AUG 1985
	NORMAL NO. DAYS WITH:														
	PRECIPITATION >= 0.01	30	5.6	5.9	9.1	10.3	12.5	10.4	11.3	11.2	8.1	6.6	6.8	6.1	103.9
	PRECIPITATION >= 1.00	30	*	0.0	0.0	0.2	0.4	0.3	0.3	0.1	0.2	0.0	*	*	1.5
SNOWFALL	NORMAL (IN)	30	7.3	6.8	12.5	9.1	2.5	0.*	0.0	0.0	1.6	4.1	8.5	7.9	60.3
	MAXIMUM MONTHLY (IN)	74	35.5	23.3	39.2	31.8	30.4	8.7	1.0	0.5	11.8	28.2	31.1	24.4	39.2
	YEAR OF OCCURRENCE		1980	1995	1990	1984	1943	1947	1994	1993	2000	2009	1979	2006	MAR 1990
	MAXIMUM IN 24 HOURS (IN)	74	12.7	14.0	15.9	17.4	15.0	8.7	1.0	0.5	10.1	8.6	19.8	11.7	19.8
	YEAR OF OCCURRENCE'		1992	1953	2003	1984	1942	1947	1994	1993	2000	1990	1979	1979	NOV 1979
	MAXIMUM SNOW DEPTH (IN)	61	23	12	19	15	12	0	0	0	8	11	26	17	26
	YEAR OF OCCURRENCE		1980	1989	1990	1984	1978				2000	2009	1979	1979	NOV 1979
	NORMAL NO. DAYS WITH:														
	SNOWFALL >= 1.0	30	2.4	2.3	3.7	2.4	0.7	0.0	0.0	0.0	0.5	1.3	2.5	2.3	18.1

PRECIPITATION (inches) 2009 CHEYENNE (KCYS)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1980	2.71	0.73	1.36	0.93	2.39	0.07	2.00	1.55	0.97	0.51	0.46	0.08	13.76
1981	0.30	0.20	0.70	0.73	5.67	1.66	2.85	2.90	0.31	0.85	0.09	0.45	16.71
1982	0.41	0.19	0.17	0.53	3.56	4.52	2.71	1.81	2.87	1.20	0.43	0.83	19.23
1983	0.02	T	2.96	4.45	2.31	2.81	2.12	1.95	0.78	0.49	2.34	0.46	20.69
1984	0.54	0.84	1.28	3.71	0.78	2.43	2.57	2.84	0.65	1.55	0.11	0.34	17.64
1985	0.66	0.19	0.36	1.10	1.05	1.59	3.99	6.64	1.78	0.94	0.84	0.80	19.94
1986	0.13	0.50	0.54	2.26	1.03	2.42	1.04	1.55	2.47	1.78	0.66	0.18	14.56
1987	0.09	0.90	1.25	0.68	4.43	1.80	2.04	1.23	0.93	0.33	0.76	0.85	15.29
1988	0.52	0.65	1.34	1.84	3.09	2.03	1.79	1.79	1.66	0.09	0.42	0.53	15.75
1989	0.27	1.26	0.49	0.48	1.37	2.51	1.70	1.79	1.62	0.41	0.14	0.69	12.73
1990	0.35	0.69	3.65	1.66	3.37	1.03	3.64	1.98	0.80	1.35	0.72	0.39	19.63
1991	0.36	0.12	0.43	1.15	3.84	4.56	3.39	1.49	1.87	0.44	0.87	0.13	18.65
1992	1.18	0.11	1.75	0.34	1.86	2.11	1.87	1.90	0.01	0.46	1.69	0.49	13.77
1993	0.35	0.81	0.63	2.49	1.92	3.32	0.64	2.21	3.16	1.85	1.23	0.30	18.91
1994	0.66	0.88	0.55	1.45	2.05	1.44	2.13	1.49	0.38	1.55	0.34	0.57	13.49
1995	0.12	1.02	0.19	1.49	6.00	4.58	1.08	0.89	3.39	0.78	0.37	0.18	20.09
1996	0.50	0.07	1.50	1.51	2.24	1.79	3.10	1.79	2.34	.50	.45	.01	15.80
1997	0.39	0.31	0.44	1.68	2.47	3.48	2.80	4.33	2.06	1.09	0.20	0.59	19.84
1998	0.07	0.29	0.69	1.09	2.35	1.63	1.21	0.96	0.49	1.27	0.31	0.46	10.82
1999	0.35	0.13	0.46	5.02	2.04	2.13	2.38	0.78	2.11	0.27	0.25	0.19	16.11
2000	0.35	0.59	1.48	0.58	1.38	0.46	2.64	1.87	2.64	0.69	0.30	0.75	13.73
2001	0.41	0.33	0.56	2.49	2.24	1.45	3.31	0.74	1.18	0.40	0.23	0.13	13.47
2002	0.17	0.64	0.85	0.68	0.75	0.68	0.48	2.21	1.73	1.10	0.46	0.11	9.86
2003	0.09	0.47	2.23	2.70	1.41	2.69	0.44	0.82	1.24	0.23	0.46	0.76	13.54
2004	0.07	0.45	0.15	1.24	1.04	3.37	1.73	0.92	3.06	0.64	1.55	0.13	14.35
2005	0.41	0.34	0.88	1.65	1.29	4.33	2.59	1.61	0.28	1.87	0.30	0.28	15.83
2006	0.05	0.52	1.70	0.82	1.61	0.25	2.98	0.98	1.02	0.58	0.07	1.55	12.13
2007	0.32	0.34	1.40	1.49	1.40	0.36	3.97	1.62	1.23	1.28	0.32	1.01	14.74
2008	0.02	0.17	0.74	0.54	2.50	1.91	0.43	6.55	1.12	0.57	0.40	0.31	15.26
2009	0.71	0.33	0.72	3.60	2.08	4.26	1.83	0.37	1.14	2.52	0.49	0.69	18.74
POR= 44 YRS	0.42	0.61	1.14	2.17	2.24	1.85	2.00	1.68	1.35	1.11	0.65	0.55	15.77

WBAN : 24018

AVERAGE TEMPERATURE (°F) 2009 CHEYENNE (KCYS)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1980	22.2	29.4	33.0	42.3	51.2	65.5	71.4	66.5	60.4	46.7	36.8	38.5	47.0
1981	33.4	32.2	36.8	50.1	50.5	63.7	69.0	65.2	61.2	46.1	40.7	30.7	48.3
1982	25.5	28.2	36.1	41.8	50.5	57.5	67.7	69.1	56.7	45.1	31.4	28.3	44.8
1983	32.8	33.5	32.0	34.8	47.4	57.3	67.8	70.2	59.0	48.6	32.3	15.0	44.2
1984	24.3	28.4	32.4	35.7	53.6	59.4	68.4	66.6	53.0	40.0	35.0	27.0	43.7
1985	19.5	23.3	35.2	45.6	54.3	61.1	69.3	66.8	52.8	45.1	26.2	26.1	43.8
1986	37.0	30.1	42.2	43.9	50.6	64.5	68.5	67.0	55.3	44.6	34.3	28.7	47.2
1987	29.1	31.6	32.4	46.7	54.5	63.3	69.2	64.9	58.0	46.9	36.7	25.7	46.6
1988	21.5	28.4	32.3	44.4	53.3	67.4	69.7	68.7	57.5	50.3	35.3	28.7	46.5
1989	30.2	17.3	37.4	44.3	54.3	60.3	70.6	67.0	57.5	46.5	38.7	24.3	45.7
1990	31.5	28.7	31.9	42.8	49.3	64.1	65.0	66.4	62.2	46.7	38.7	20.8	45.7
1991	25.0	36.2	36.4	41.1	52.4	62.5	67.7	67.7	58.0	46.1	31.7	31.6	46.4
1992	30.5	36.7	38.6	48.6	55.0	60.8	64.6	63.8	60.0	49.2	30.9	25.5	47.0
1993	26.1	24.9	37.2	42.1	53.4	58.7	66.1	64.8	54.3	44.1	29.2	30.7	44.3
1994	29.4	27.2	38.6	43.3	56.9	66.3	68.0	69.4	61.7	46.9	34.6	33.3	48.0
1995	30.7	32.6	36.8	39.5	45.7	59.0	67.8	71.6	57.1	45.8	38.4	30.0	46.3
1996	23.0	30.2	31.6	42.7	51.7	63.6	68.3	66.3	56.6	45.8	34.7	30.1	45.4
1997	24.7	26.7	38.3	35.9	51.7	62.6	68.3	65.0	59.2	46.1	31.4	28.3	44.9
1998	30.6	30.6	32.7	41.2	53.3	56.8	70.3	68.7	64.0	45.8	39.5	26.6	46.7
1999	30.8	34.6	37.6	38.4	50.5	60.3	70.0	67.7	54.0	47.6	44.0	32.0	47.3
2000	29.8	34.7	37.1	45.4	55.5	62.5	72.2	70.5	58.2	46.3	25.9	25.3	47.0
2001	27.6	26.9	35.1	44.3	52.6	64.2	72.2	69.5	61.5	47.2	38.9	29.2	47.4
2002	27.5	29.2	29.5	44.4	51.2	67.7	73.6	66.6	59.1	39.2	34.4	32.4	46.2
2003	35.0	24.9	37.7	45.8	53.5	58.3	75.1	70.7	56.4	51.3	33.5	30.0	47.7
2004	30.4	28.8	42.1	44.3	55.5	60.5	67.3	65.1	58.7	48.0	34.8	31.8	47.3
2005	31.9	32.7	36.1	43.1	52.1	61.7	71.9	66.5	62.1	48.2	39.2	27.6	47.8
2006	34.6	26.7	32.7	47.0	54.6	68.0	71.8	68.0	54.2	44.9	36.8	29.4	47.4
2007	21.7	29.8	41.8	42.2	53.3	64.3	72.2	70.6	59.1	49.0	37.7	23.0	47.1
2008	23.5	30.0	34.2	40.6	50.4	61.2	72.2	66.2	56.4	46.8	39.2	24.5	45.4
2009	30.3	33.2	36.7	40.6	53.3	59.6	66.0	65.5	58.7	37.0	38.0	20.7	45.0
POR= 44 YRS	26.9	26.8	33.6	40.6	50.9	59.6	69.0	66.7	56.1	46.4	34.6	28.5	45.0

HEATING DEGREE DAYS (base 65°F) 2009 CHEYENNE (KCYS)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1980-81	0	41	151	558	840	812	974	913	868	440	445	95	6137
1981-82	21	50	120	580	722	1058	1216	1025	892	687	446	227	7044
1982-83	29	7	264	608	1002	1131	992	875	1016	898	538	233	7593
1983-84	23	0	202	502	974	1547	1259	1058	1002	870	348	177	7962
1984-85	6	15	365	769	892	1171	1403	1163	917	576	323	162	7762
1985-86	11	37	364	612	1158	1199	862	970	698	629	440	71	7051
1986-87	4	20	286	630	914	1121	1102	928	1002	542	321	78	6948
1987-88	27	79	214	554	841	1213	1343	1056	1008	611	361	42	7349
1988-89	12	18	236	449	884	1116	1075	1332	851	615	334	180	7102
1989-90	4	18	236	566	779	1257	1037	1012	1021	662	480	106	7178
1990-91	75	28	127	558	784	1364	1231	799	879	712	385	95	7037
1991-92	26	17	217	586	993	1031	1062	813	811	488	307	131	6482
1992-93	63	92	161	484	1014	1216	1198	1118	856	680	351	202	7435
1993-94	45	58	322	642	1068	1059	1097	1053	809	644	249	43	7089
1994-95	24	16	131	552	904	978	1057	901	866	758	588	199	6974
1995-96	37	6	283	589	793	1076	1293	1002	1031	663	411	77	7261
1996-97	16	29	269	590	905	1076	1242	1065	820	867	400	102	7381
1997-98	34	58	181	577	1001	1130	1059	957	994	706	352	256	7305
1998-99	7	10	104	587	754	1183	1055	845	840	791	444	150	6770
1999-00	8	27	322	534	625	1015	1083	870	858	581	305	130	6358
2000-01	2	8	242	573	1167	1223	1155	1064	922	614	377	106	7453
2001-02	0	11	135	545	776	1102	1154	997	1090	610	432	56	6908
2002-03	0	41	205	791	911	1006	925	1114	843	570	360	200	6966
2003-04	0	26	265	413	939	1077	1065	1043	704	613	295	154	6594
2004-05	50	68	203	518	897	1025	1020	897	889	647	401	153	6768
2005-06	13	41	129	515	767	1152	935	1065	995	533	325	19	6489
2006-07	8	39	322	613	840	1099	1334	980	711	676	358	105	7085
2007-08	0	11	194	489	813	1295	1281	1008	947	725	447	134	7344
2008-09	4	60	253	558	767	1251	1070	885	869	726	360	175	6978
2009-	43	51	203	858	804	1367							

WBAN : 24018

COOLING DEGREE DAYS (base 65°F) 2009 CHEYENNE (KCYS)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1980	0	0	0	0	0	88	205	94	21	0	0	0	408
1981	0	0	0	0	0	59	156	64	15	0	0	0	294
1982	0	0	0	0	0	8	120	140	21	0	0	0	289
1983	0	0	0	0	0	10	115	169	28	0	0	0	322
1984	0	0	0	0	1	14	118	72	8	0	0	0	213
1985	0	0	0	0	0	52	150	98	8	0	0	0	308
1986	0	0	0	0	0	62	118	89	0	0	0	0	269
1987	0	0	0	0	0	35	164	83	9	0	0	0	291
1988	0	0	0	0	4	122	166	140	18	0	0	0	450
1989	0	0	0	0	7	46	188	86	19	0	0	0	346
1990	0	0	0	0	0	86	84	79	49	0	0	0	298
1991	0	0	0	0	2	28	119	106	13	4	0	0	272
1992	0	0	0	1	2	15	58	63	16	0	0	0	155
1993	0	0	0	0	0	19	89	60	6	0	0	0	174
1994	0	0	0	0	3	91	125	156	38	0	0	0	413
1995	0	0	0	0	0	23	132	218	50	0	0	0	423
1996	0	0	0	0	2	40	124	73	24	0	0	0	263
1997	0	0	0	0	0	37	144	65	13	0	0	0	259
1998	0	0	0	0	0	17	182	131	78	0	0	0	408
1999	0	0	0	0	0	18	170	114	0	0	0	0	302
2000	0	0	0	0	19	59	231	187	44	0	0	0	540
2001	0	0	0	0	0	91	229	158	38	0	0	0	516
2002	0	0	0	0	12	145	271	95	36	0	0	0	559
2003	0	0	0	0	10	6	322	210	13	0	0	0	561
2004	0	0	0	0	8	24	127	80	21	0	0	0	260
2005	0	0	0	0	6	59	232	95	49	2	0	0	443
2006	0	0	0	0	8	116	223	136	3	0	0	0	486
2007	0	0	0	0	2	88	230	191	25	0	0	0	536
2008	0	0	0	0	1	26	239	105	1	0	0	0	372
2009	0	0	0	0	4	20	82	73	22	0	0	0	201

SNOWFALL (inches) 2009 CHEYENNE (KCYS)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1980-81	0.0	0.0	0.0	1.1	6.3	2.1	3.4	2.9	9.0	2.0	0.8	0.0	27.6
1981-82	0.0	0.0	0.0	4.6	0.8	5.8	5.6	2.4	1.7	2.0	4.0	0.0	26.9
1982-83	0.0	0.0	0.0	12.2	7.9	13.1	0.1	T	31.9	25.7	10.1	0.0	101.0
1983-84	0.0	0.0	T	0.2	27.2	7.0	7.9	12.1	13.0	31.8	T	0.0	99.2
1984-85	0.0	0.0	1.6	3.8	1.5	5.6	9.8	1.9	3.6	2.6	0.4	0.0	30.8
1985-86	0.0	0.0	7.4	6.0	12.4	13.0	1.3	4.9	5.6	11.3	3.8	0.0	65.7
1986-87	0.0	0.0	0.0	9.2	6.9	2.2	1.1	9.9	13.7	4.4	T	0.0	47.4
1987-88	0.0	0.0	0.0	1.3	4.5	16.1	9.0	7.5	16.0	7.5	2.2	0.0	64.1
1988-89	0.0	0.0	0.2	0.0	4.5	7.2	4.4	17.6	5.0	4.3	T	T	43.2
1989-90	T	T	2.6	3.4	1.9	9.7	5.6	11.6	39.2	5.6	1.3	T	80.9
1990-91	T	T	T	12.3	8.8	6.6	7.7	1.6	3.7	10.5	T	T	51.2
1991-92	T	T	T	7.5	9.1	2.0	18.2	0.8	11.3	0.7	4.4	0.5	54.5
1992-93	T	T	0.0	2.1	25.5	10.9	7.1	14.6	6.6	11.3	T	0.5	78.6
1993-94	0.0	0.5	5.5	3.1	18.0	5.7	11.5	16.1	4.2	9.1	T	T	73.7
1994-95	1.0	0.0	0.9	2.3	3.0	10.0	2.7	23.3	4.4	13.2	2.6	T	63.4
1995-96	0.0	0.0	3.0	6.4	6.4	3.6	11.9	2.1	21.9	8.7	0.1	T	64.1
1996-97	T	T	1.2	2.0	7.0	0.4	10.5	7.9	8.4	23.3	2.8	T	63.5
1997-98	T	T	T	8.8	2.5	10.9	1.3	3.4	8.4	10.1	1.1	0.7	47.2
1998-99	T	0.0	0.0	0.3	4.0	13.5	6.4	2.4	4.9	17.0	0.9	T	49.4
1999-00	0.0	0.0	3.7	3.3	4.3	2.9	2.9	10.7	16.2	1.7	0.2	0.0	45.9
2000-01	T	T	11.8	0.7	4.3	13.5	8.6	6.8	7.0	23.2	13.1	T	89.0
2001-02	T	0.0	T	2.6	4.3	2.1	2.7	10.3	11.4	1.7	2.5	T	37.6
2002-03	T	T	0.0	13.1	8.3	1.6	2.3	8.6	25.2	6.2	2.4	T	67.7
2003-04	0.0	T	1.4	2.0	9.8	9.7	1.9	6.8	0.3	7.9	3.5	T	43.3
2004-05	T	0.0	T	1.4	24.4	3.0	6.9	4.4	8.3	13.4	0.3	0.0	62.1
2005-06	T	0.0	0.0	7.5	1.2	7.1	1.0	13.1	21.6	2.3	2.0	0.0	55.8
2006-07	T	0.0	T	5.3	1.3	24.4	9.3	5.5	2.8	0.7	0.0	0.2	49.5
2007-08	T	T	T	1.2	5.4	17.8	0.5	2.7	8.4	6.7	0.2	T	42.9
2008-09	0.0	T	T	0.1	4.9	8.7	12.8	5.9	9.3	27.7	0.1	0.0	69.5
2009-	0.0	0.0	T	28.2	6.7	16.4							
POR= 44 YRS	T	T	0.8	4.4	7.3	7.5	5.4	7.9	11.1	12.0	3.7	0.3	60.4

WBAN : 24018

REFERENCE NOTES :

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).

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).

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.

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 EIGHTS(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: https://mi3.ncdc.noaa.gov/mi3qry/login.cfm

NOTE:
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.

2009
CHEYENNE
WYOMING (KCYS)

The city of Cheyenne is located on a broad plateau between the North and South Platte Rivers in the extreme southeastern corner of Wyoming at an elevation of approximately 6,100 feet. The surrounding country is mostly rolling prairie which is used primarily for grazing. The ground level rises rapidly to a ridge approximately 9,000 feet in elevation about 30 miles west of the city. This ridge is known as the Laramie Mountains, one of the ranges of the Rockies, and extends in a north-south direction. Because of this ridge, winds from the northwest through west to southwest are downslope and produce a marked chinook effect in Cheyenne which is especially noticeable during the winter months. Also, winds from the north through east to south are upslope and may cause fog or low stratus clouds in the Cheyenne area throughout the year. Because of this terrain variation, the wind direction plays an important role in controlling the local temperature and weather.

Cheyenne experiences large diurnal and annual temperature ranges. This is due to the advent of both warm and cold air masses and the relatively high elevation of the city which permits rapid incoming and outgoing radiation. The daily temperature range averages about 30 degrees in the summer and 23 degrees in the winter. Many cold air masses from the north during the winter months miss Cheyenne. Because of the downslope of land to the east and the prevailing westerlies, some of the cold air masses do move over the city, but only about 13 percent of the days in an average January, the coldest month of the year, show temperatures dropping to zero or below. Temperatures during the winter months average a few degrees higher than over the Mississippi and Missouri Valleys at the same latitude.

Windy days are quire frequent during the winter and spring months. Since the wind is usually strongest during the daytime it is a very noticeable weather element. Usually the strong winds are from a westerly direction and this tends to raise the temperature because the air is moving downslope.

Most of the air masses reaching this area move in from the Pacific and since the mountains to the west are quite effective moisture barriers the climate is semi-arid. Fortunately, about 70 percent of normal annual precipitation occurs during the growing season. In the summer months, precipitation is mostly of the shower type and occurs mainly with thunderstorms. Hail is frequent and occasionally destructive in some thunderstorms. Most of the snow falls during the late winter and early spring months. It is not uncommon to have heavy snow in May.

The growing season in Cheyenne averages about 132 days a year and extends from around May 18th to September 27th. Freezing temperatures have occurred as late in the spring as mid-June, and as early in the fall as late August.

Relative humidity averages near 50 percent on an annual basis with large daily variations. Very seldom is the relative humidity above 30 percent when the temperature is above 80 degrees.

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