

Climatology of the United States

No. 20

1971-2000

Station: BATTLE MOUNTAIN 4 SE, NV

COOP ID: 260691

Climate Division: NV 2

NWS Call Sign: BAM

Elevation: 4,540 Feet Lat: 40° 37N

Lon: 116° 54W

Temperature (°F)

Mean (1)				Extremes										Degree Days (1) Base Temp 65		Mean Number of Days (3)					
Month	Daily Max	Daily Min	Mean	Highest Daily(2)	Year	Day	Highest Month(1) Mean	Year	Lowest Daily(2)	Year	Day	Lowest Month(1) Mean	Year	Heating	Cooling	Max >= 100	Max >= 90	Max >= 50	Max <= 32	Min <= 32	Min <= 0
Jan	42.8	16.8	29.8	67	1971	18	38.9	1986	-35	1949	24	17.6	1993	1091	0	.0	.0	6.6	5.0	28.4	3.4
Feb	50.0	22.2	36.1	72	1981	19	42.9	1995	-25+	1949	13	26.2	1993	810	0	.0	.0	13.3	1.7	25.0	1.0
Mar	57.7	27.1	42.4	80+	1972	9	48.4	1978	-3	1948	5	37.7	1977	701	0	.0	.0	23.7	.1	24.9	.1
Apr	65.3	30.9	48.1	90	1981	30	54.4	1992	8+	1970	1	40.0	1975	509	2	.0	@	27.1	.0	18.7	.0
May	74.6	38.9	56.8	97+	1954	19	64.8	1992	14	1959	4	51.7	1977	278	23	.0	1.5	30.5	.0	6.4	.0
Jun	85.9	45.8	65.9	104+	1954	22	71.0	1977	24	1945	15	61.1	1984	80	105	.7	10.7	30.0	.0	.8	.0
Jul	95.8	51.4	73.6	109+	1975	27	77.1	1975	31+	1947	1	67.4	1983	9	275	5.4	24.4	31.0	.0	@	.0
Aug	94.6	48.8	71.7	106+	1992	12	77.4	1971	28+	1947	31	67.2	1976	11	219	3.7	22.1	31.0	.0	.2	.0
Sep	84.4	40.3	62.4	102+	1950	2	67.9	1990	11	1985	30	56.1	1985	134	54	.1	7.2	29.9	.0	4.8	.0
Oct	70.9	30.2	50.6	95	1996	9	56.4	1988	3	1996	21	45.4	1984	450	2	.0	.2	29.1	.1	19.4	.0
Nov	53.5	23.1	38.3	80	1980	5	43.9	1995	-9	1964	18	30.1	1994	802	0	.0	.0	16.3	.5	25.6	.4
Dec	43.6	16.1	29.9	67	1995	1	39.7	1977	-39	1990	22	18.7	1990	1090	0	.0	.0	6.9	4.5	28.4	2.9
Ann	68.3	32.6	50.5	109+	Jul 1975	27	77.4	Aug 1971	-39	Dec 1990	22	17.6	Jan 1993	5965	680	9.9	66.1	275.4	11.9	182.6	7.8

+ Also occurred on an earlier date(s)

@ Denotes mean number of days greater than 0 but less than .05

Complete documentation available from: www.ncdc.noaa.gov/oa/climate/normal/usnormals.html

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1944-2001

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Precipitation (inches)

		Precipitation Totals								Mean Number of Days (3)				Precipitation Probabilities (1)										
														Probability that the monthly/annual precipitation will be equal to or less than the indicated amount										
Means/Medians(1)		Extremes							Daily Precipitation				Monthly/Annual Precipitation vs Probability Levels											
													These values were determined from the incomplete gamma distribution											
Month	Mean	Med-ian	Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year	>= 0.01	>= 0.10	>= 0.50	>= 1.00	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	.86	.74	1.20	1988	5	2.88	1996	.00	1972	7.1	2.6	.3	@	.04	.11	.23	.36	.50	.65	.83	1.06	1.37	1.90	2.41
Feb	.68	.50	.75	1962	10	1.84	2000	.10	1982	7.0	2.5	.1	.0	.12	.18	.28	.37	.46	.57	.69	.83	1.02	1.33	1.63
Mar	.85	.83	.75	1988	1	2.42	1978	.02	1972	7.5	2.7	.2	.0	.10	.16	.28	.40	.53	.67	.83	1.03	1.31	1.76	2.21
Apr	.91	.62	1.10	1990	8	3.02	1978	.03	1981	7.1	2.8	.3	@	.05	.11	.22	.34	.48	.65	.85	1.10	1.46	2.06	2.66
May	1.30	.74	1.46	1987	16	4.91	1987	.02	1974	7.5	3.4	.7	.1	.04	.09	.21	.37	.57	.81	1.12	1.53	2.12	3.15	4.21
Jun	.77	.64	1.07	1999	2	2.15	1997	.00+	1994	4.7	2.2	.4	.1	.00	.11	.26	.38	.50	.63	.78	.96	1.20	1.59	1.96
Jul	.28	.16	.90	1984	22	1.62	1984	.00+	1999	2.3	.9	.1	.0	.00	.00	.01	.04	.08	.14	.22	.32	.47	.73	1.01
Aug	.34	.15	.89	1992	31	1.43	1992	.00+	1998	2.7	.9	.1	.0	.00	.00	.00	.04	.09	.17	.26	.39	.59	.93	1.28
Sep	.68	.40	1.75	1976	15	2.92	1976	.00+	1999	3.6	1.9	.4	@	.00	.00	.08	.20	.32	.47	.63	.85	1.15	1.65	2.15
Oct	.67	.55	2.27	1963	12	1.77	1974	.00+	1978	4.3	2.0	.3	.0	.00	.06	.17	.27	.38	.51	.65	.83	1.07	1.47	1.86
Nov	.71	.65	1.09	1950	18	2.08	1994	.08	1971	6.6	2.3	.2	.0	.12	.18	.29	.38	.48	.59	.72	.87	1.07	1.40	1.71
Dec	.72	.48	1.19	1992	29	3.23	1996	.02	1976	6.2	2.3	.3	.1	.06	.11	.21	.31	.42	.54	.69	.87	1.13	1.55	1.97
Ann	8.77	8.99	2.27	Oct 1963	12	4.91	May 1987	.00+	Sep 1999	66.6	26.5	3.4	.3	5.11	5.76	6.63	7.30	7.92	8.52	9.16	9.87	10.75	12.05	13.19

+ Also occurred on an earlier date(s)

Denotes amounts of a trace

@ Denotes mean number of days greater than 0 but less than .05

** Statistics not computed because less than six years out of thirty had measurable precipitation

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1944-2001

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Snow (inches)																							
Snow Totals															Mean Number of Days (1)								
Means/Medians (1)					Extremes (2)										Snow Fall >= Thresholds					Snow Depth >= Thresholds			
Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year	0.1	1.0	3.0	5.0	10.0	1	3	5	10
Jan	5.4	4.3	1	1	9.0	1997	23	21.3	1996	18	1993	11	13	1993	3.2	2.2	.4	.1	.0	7.6	3.9	2.0	1.1
Feb	3.1	2.4	1	#	6.0	1987	24	10.9	1993	10	1993	24	7	1993	2.3	1.5	.3	.1	.0	3.5	1.9	1.2	.2
Mar	2.3	1.7	#	#	5.0	1985	2	8.6	1998	5	1993	1	1	1993	1.6	1.0	.2	@	.0	.9	.3	.1	.0
Apr	1.3	.0	#	#	6.1	1999	3	7.0+	1976	5	1999	3	##	1999	.9	.7	.1	@	.0	.1	@	@	.0
May	.1	#	#	0	1.0	1977	17	1.0	1977	1	1988	6	##	1988	.1	.1	.0	.0	.0	@	.0	.0	.0
Jun	#	.0	#	0	#	1995	8	##	1995	##	1995	6	##	1995	.0	.0	.0	.0	.0	.0	.0	.0	.0
Jul	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Aug	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Sep	#	.0	0	0	#	1978	18	##	1978	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.4	.0	#	0	3.0	1971	16	5.0	1971	3	1991	29	##	1998	.2	.2	@	.0	.0	.1	@	.0	.0
Nov	1.9	2.0	#	#	5.3	1994	17	9.3	1994	5	1994	18	1	1994	1.5	.9	.1	@	.0	1.1	.3	.1	.0
Dec	4.6	3.0	1	#	12.4	1992	29	21.2	1992	16	1972	15	3	1992	2.4	1.6	.5	.3	.1	4.2	2.2	.9	.2
Ann	19.1	13.4	N/A	N/A	12.4	Dec 1992	29	21.3	Jan 1996	18	Jan 1993	11	13	Jan 1993	12.2	8.2	1.6	.5	.1	17.5	8.6	4.3	1.5

+ Also occurred on an earlier date(s) #Denotes trace amounts

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-9/-9.9 represents missing values

Annual statistics for Mean/Median snow depths are not appropriate

(1) Derived from Snow Climatology and 1971-2000 daily data

(2) Derived from 1971-2000 daily data

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Freeze Data									
Spring Freeze Dates (Month/Day)									
Temp (F)	Probability of later date in spring (thru Jul 31) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	7/09	7/02	6/27	6/22	6/18	6/14	6/10	6/05	5/29
32	6/21	6/15	6/10	6/06	6/03	5/30	5/26	5/22	5/15
28	6/03	5/27	5/21	5/17	5/12	5/08	5/03	4/28	4/20
24	5/20	5/13	5/08	5/04	4/30	4/25	4/21	4/16	4/09
20	5/15	5/05	4/27	4/21	4/15	4/09	4/02	3/26	3/15
16	4/29	4/18	4/10	4/04	3/29	3/23	3/16	3/08	2/26
Fall Freeze Dates (Month/Day)									
Temp (F)	Probability of earlier date in fall (beginning Aug 1) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	8/13	8/19	8/24	8/27	8/31	9/03	9/07	9/12	9/18
32	8/25	8/31	9/05	9/08	9/12	9/16	9/20	9/24	10/01
28	9/07	9/13	9/17	9/20	9/23	9/26	9/30	10/04	10/09
24	9/16	9/22	9/26	9/29	10/03	10/06	10/09	10/13	10/19
20	9/28	10/04	10/08	10/12	10/16	10/19	10/23	10/27	11/02
16	10/08	10/15	10/20	10/24	10/28	11/01	11/05	11/11	11/18
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	104	93	86	79	73	67	60	52	42
32	128	119	112	106	101	95	89	83	73
28	162	152	145	139	133	128	121	114	105
24	186	175	168	161	155	149	143	135	125
20	226	211	201	192	183	175	166	155	140
16	251	238	228	220	213	205	197	188	174

* Probability of observing a temperature as cold, or colder, later in the spring or earlier in the fall than the indicated date.

0/00 Indicates that the probability of occurrence of threshold temperature is less than the indicated probability.

Derived from 1971-2000 serially complete daily data

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Degree Days to Selected Base Temperatures (°F)

Base	Heating Degree Days (1)												
Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	1091	810	701	509	278	80	9	11	134	450	802	1090	5965
60	936	670	546	367	166	29	1	1	59	303	652	935	4665
57	843	586	454	288	114	13	0	0	31	225	562	842	3958
55	783	530	394	239	85	7	0	0	18	179	503	780	3518
50	639	401	254	139	34	1	0	0	4	86	362	632	2552
32	216	72	9	1	0	0	0	0	0	0	42	189	529

Cooling Degree Days (1)

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	148	186	331	484	768	1014	1289	1231	910	575	231	122	7289
55	2	0	3	32	139	331	576	518	238	40	1	0	1880
57	0	0	1	21	106	277	514	456	191	25	0	0	1591
60	0	0	0	10	65	203	422	364	128	10	0	0	1202
65	0	0	0	2	23	105	275	219	54	2	0	0	680
70	0	0	0	0	6	41	149	103	15	0	0	0	314

Growing Degree Units (2)

Base	Growing Degree Units (Monthly)												Growing Degree Units (Accumulated Monthly)											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	15	45	114	245	509	763	1017	956	641	318	66	17	15	60	174	419	928	1691	2708	3664	4305	4623	4689	4706
45	1	11	41	136	366	614	862	801	491	187	19	2	1	12	53	189	555	1169	2031	2832	3323	3510	3529	3531
50	0	0	8	60	230	466	707	646	350	93	2	0	0	0	8	68	298	764	1471	2117	2467	2560	2562	2562
55	0	0	0	21	124	323	552	491	216	31	0	0	0	0	0	21	145	468	1020	1511	1727	1758	1758	1758
60	0	0	0	1	54	195	398	338	106	6	0	0	0	0	0	1	55	250	648	986	1092	1098	1098	1098
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	17	53	122	220	369	493	609	590	461	301	87	17	17	70	192	412	781	1274	1883	2473	2934	3235	3322	3339

(1) Derived from the 1971-2000 Monthly Normals

(2) Derived from 1971-2000 serially complete daily data

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86

Complete documentation available from:

www.ncdc.noaa.gov/oa/climate/normal/usnormals.html

Notes

- a. The monthly means are simple arithmetic averages computed by summing the monthly values for the period 1971-2000 and dividing by thirty. Prior to averaging, the data are adjusted if necessary to compensate for data quality issues, station moves or changes in station reporting practices. Missing months are replaced by estimates based on neighboring stations.
- b. The median is defined as the middle value in an ordered set of values. The median is being provided for the snow and precipitation elements because the mean can be a misleading value for precipitation normals.
- c. Only observed validated values were used to select the extreme daily values.
- d. Extreme monthly temperature/precipitation means were selected from the monthly normals data.
Monthly snow extremes were calculated from daily values quality controlled to be consistent with the Snow Climatology.
- e. Degree Days were derived using the same techniques as the 1971-2000 normals.
Complete documentation for the 1971-2000 Normals is available on the internet from:
www.ncdc.noaa.gov/oa/climate/normal/usnormals.html
- f. Mean "number of days statistics" for temperature and precipitation were calculated from a serially complete daily data set.
Documentation of the serially complete data set is available from the link below:
- g. Snowfall and snow depth statistics were derived from the Snow Climatology.
Documentation for the Snow Climatology project is available from the link under references.

Data Sources for Tables

Several different data sources were used to create the Clim20 climate summaries. In some cases the daily extremes appear inconsistent with the monthly extremes and or the mean number of days statistics. For example, a high daily extreme value may not be reflected in the highest monthly value or the mean number of days threshold that is less than and equal to the extreme value. Some of these difference are caused by different periods of record. Daily extremes are derived from the station's entire period of record while the serial data and normals data were are for the 1971-2000 period. Therefore extremes observed before 1971 would not be included in the 1971-2000 normals or the 1971-2000 serial daily data set. Inconsistencies can also occur when monthly values are adjusted to reflect the current observing conditions or were replaced during the 1971-2000 Monthly Normals processing and are not reconciled with the Summary of the Day data.

- a. Temperature/ Precipitation Tables
 1. 1971-2000 Monthly Normals
 2. Cooperative Summary of the Day
 3. National Weather Service station records
 4. 1971-2000 serially complete daily data
- b. Degree Day Table
 1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals
 2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data
- c. Snow Tables
 1. Snow Climatology
 2. Cooperative Summary of the Day
- d. Freeze Data Table
1971-2000 serially complete daily data

References

- U.S. Climate Normals 1971-2000, www.ncdc.noaa.gov/normal.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html
Snow Climatology Project Description, www.ncdc.noaa.gov/oa/climate/monitoring/snowclim/mainpage.html
Eischeid, J. K., P. Pasteris, H. F. Diaz, M. Plantico, and N. Lott, 2000: Creating a serially complete, national daily time series of temperature and precipitation for the Western United States. J. Appl. Meteorol., 39, 1580-1591,
www1.ncdc.noaa.gov/pub/data/special/serialcomplete_jam_0900.pdf