

Climatography of the United States

No. 20

1971-2000

Station: MINA, NV

COOP ID: 265168

Climate Division: NV 3

NWS Call Sign:

Elevation: 4,550 Feet Lat: 38° 23N Lon: 118° 06W

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	47.3	21.8	34.6	71	1971	19	41.5	1986	-20	1937	8	29.3	1973	944	0	.0	.0	12.2	2.3	26.9	.2
Feb	53.6	26.0	39.8	76	1986	28	46.2	1995	-20	1933	9	35.0	1976	705	0	.0	.0	17.6	1.0	21.5	.1
Mar	60.0	31.2	45.6	80+	1944	10	50.7	1989	0	1971	2	39.9	1985	601	0	.0	.0	25.6	@	15.8	@
Apr	66.8	36.8	51.8	96	1945	30	58.9	1989	13	1933	9	43.0	1975	410	13	.0	@	27.7	.0	7.3	.0
May	76.2	45.6	60.9	98+	2000	23	67.8	1997	20	1964	3	52.5	1977	200	72	.0	2.1	30.6	.0	.9	.0
Jun	87.4	54.9	71.2	106+	1950	30	75.8	1986	32	1950	8	64.8	1995	34	218	1.1	12.8	30.0	.0	.0	.0
Jul	95.9	61.5	78.7	110	1933	16	82.6	1994	33	1955	2	73.8	1983	0	425	6.1	25.7	31.0	.0	.0	.0
Aug	94.2	59.0	76.6	108+	2000	1	80.7	1994	39	1932	30	68.8	1976	2	361	3.6	23.4	31.0	.0	.0	.0
Sep	84.8	49.5	67.2	104	1950	3	70.8	1981	18	1934	26	61.3	1986	57	121	.1	8.5	30.0	.0	.2	.0
Oct	71.9	38.1	55.0	93	1996	9	61.7	1988	10	1935	30	49.2	1984	324	14	.0	.3	29.9	@	5.3	.0
Nov	56.8	28.6	42.7	78+	1988	4	49.2	1995	0+	1931	30	35.9	1994	669	0	.0	.0	21.6	.2	19.0	.0
Dec	47.5	20.9	34.2	69+	1955	22	40.0	1977	-23	1990	24	25.5	1990	954	0	.0	.0	13.6	2.2	27.0	.3
Ann	70.2	39.5	54.9	110	Jul 1933	16	82.6	Jul 1994	-23	Dec 1990	24	25.5	Dec 1990	4900	1224	10.9	72.8	300.8	5.7	123.9	.6

+ 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: 1928-2001

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

037-A

Climatography of the United States

No. 20 1971-2000

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: MINA, NV

COOP ID: 265168

Climate Division: NV 3

NWS Call Sign:

Elevation: 4,550 Feet Lat: 38°23N

Lon: 118°06W

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	.45	.27	1.07	1997	3	1.64	1997	.00+	2000	3.9	1.3	.1	@	.00	.00	.07	.14	.21	.30	.41	.55	.74	1.06	1.39
Feb	.46	.38	.90+	1936	2	1.55	1998	.00+	1977	4.4	1.3	.1	.0	.00	.00	.12	.20	.28	.36	.46	.59	.75	1.02	1.28
Mar	.67	.67	.95	1973	8	1.43	1973	.00+	1997	5.6	2.2	.1	.0	.00	.07	.20	.30	.41	.53	.67	.84	1.07	1.44	1.80
Apr	.61	.42	1.11	1990	18	3.47	1988	.00	1972	4.2	1.6	.3	.1	.00	.02	.08	.15	.24	.36	.51	.71	1.00	1.52	2.05
May	.78	.46	1.32	1998	13	3.09	1998	.00+	1997	4.8	2.3	.3	.1	.00	.00	.10	.21	.34	.50	.70	.95	1.30	1.90	2.50
Jun	.55	.35	.85	1943	12	2.36	1982	.00+	1994	3.4	1.5	.4	.0	.00	.00	.05	.16	.26	.38	.52	.69	.93	1.31	1.71
Jul	.49	.25	1.41	1985	21	1.90	1984	.00+	2000	3.0	1.2	.2	.1	.00	.00	.02	.10	.19	.29	.43	.60	.84	1.25	1.67
Aug	.41	.29	1.05	1982	28	1.62	1982	.00+	1997	3.0	1.2	.1	@	.00	.00	.00	.07	.15	.24	.36	.50	.71	1.07	1.42
Sep	.42	.26	1.56	1980	8	1.62	1980	.00+	2000	2.7	1.0	.1	.1	.00	.00	.00	.04	.10	.19	.31	.47	.71	1.15	1.59
Oct	.50	.20	2.52	1972	2	4.38	1972	.00+	1999	2.8	1.0	.3	.1	.00	.00	.03	.08	.15	.25	.38	.56	.83	1.33	1.84
Nov	.40	.23	1.02	1974	1	1.31	1987	.00+	1999	3.2	1.3	.1	@	.00	.00	.04	.10	.16	.24	.35	.48	.68	1.01	1.36
Dec	.33	.23	.86	1955	24	1.19+	1995	.00+	1999	3.1	1.0	.1	.0	.00	.00	.07	.12	.18	.24	.32	.42	.54	.76	.97
Ann	6.07	5.95	2.52	Oct 1972	2	4.38	Oct 1972	.00+	Sep 2000	44.1	16.9	2.2	.5	3.27	3.76	4.41	4.92	5.39	5.85	6.35	6.90	7.59	8.62	9.53

+ 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

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Complete documentation available from:
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Station: MINA, NV

COOP ID: 265168

Climate Division: NV 3

NWS Call Sign:

Elevation: 4,550 Feet

Lat: 38°23N

Lon: 118°06W

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	3.0	2.6	#	0	6.0	1992	6	8.0	1987	2	1973	22	#+	2000	2.0	1.1	.3	@	.0	-9.9	-9.9	-9.9	-9.9
Feb	2.6	1.4	#	0	6.0	1976	7	17.4	1976	#+	1999	9	#+	1999	1.8	.9	.2	.1	.0	.0	.0	.0	.0
Mar	2.6	1.6	#	0	8.0	1973	8	10.0	1973	5	1973	8	#+	1979	1.4	1.0	.4	@	.0	.6	.2	.1	.0
Apr	.8	.0	#	0	6.0	1988	23	7.0	1988	#+	1997	9	#+	1997	.5	.4	.1	@	.0	.0	.0	.0	.0
May	.4	.0	#	0	4.0	1998	13	4.0	1998	1	1977	7	#	1977	.2	.2	@	.0	.0	.1	.0	.0	.0
Jun	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.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	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.5	.0	#	0	6.0	1978	31	8.0	1971	4	1971	18	#	1971	.1	.1	.1	@	.0	.1	.1	.0	.0
Nov	1.1	.0	#	0	4.0	1993	12	4.5+	2000	1	1975	28	#	1975	.9	.5	@	.0	.0	.1	.0	.0	.0
Dec	1.5	.8	0	0	4.0	1996	22	5.0	1971	0	0	0	0	0	1.4	.7	.1	.0	.0	.0	.0	.0	.0
Ann	12.5	6.4	N/A	N/A	8.0	Mar 1973	8	17.4	Feb 1976	5	Mar 1973	8	#+	Jan 2000	8.3	4.9	1.2	.1	.0	-9.9	-9.9	-9.9	-9.9

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

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

-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	6/04	5/28	5/23	5/19	5/15	5/11	5/07	5/02	4/25
32	5/19	5/12	5/08	5/04	4/30	4/26	4/22	4/18	4/11
28	5/05	4/29	4/24	4/20	4/17	4/13	4/09	4/04	3/29
24	4/23	4/14	4/08	4/02	3/28	3/23	3/17	3/11	3/02
20	4/04	3/26	3/19	3/14	3/09	3/03	2/26	2/19	2/10
16	3/17	3/07	2/27	2/21	2/15	2/09	2/03	1/26	1/16
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	9/16	9/21	9/25	9/28	10/02	10/05	10/08	10/12	10/17
32	9/29	10/04	10/08	10/12	10/15	10/18	10/22	10/26	10/31
28	10/11	10/16	10/19	10/22	10/25	10/27	10/30	11/03	11/07
24	10/22	10/27	10/31	11/03	11/05	11/08	11/11	11/14	11/19
20	10/29	11/04	11/08	11/12	11/16	11/19	11/23	11/27	12/03
16	11/16	11/22	11/26	11/30	12/03	12/06	12/10	12/14	12/20
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	167	157	150	144	139	133	127	120	110
32	190	182	177	172	167	163	158	152	144
28	213	205	200	195	190	186	181	175	168
24	251	241	233	227	222	216	210	202	192
20	282	272	264	257	251	245	238	231	220
16	328	315	305	298	290	283	275	265	253

* 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	944	705	601	410	200	34	0	2	57	324	669	954	4900
60	789	565	450	282	115	10	0	0	17	202	520	799	3749
57	696	481	364	217	76	4	0	0	7	142	432	706	3125
55	634	425	309	179	55	2	0	0	3	109	375	644	2735
50	480	291	189	101	22	0	0	0	0	49	246	491	1869
32	76	14	6	0	0	0	0	0	0	0	11	85	192

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	154	233	428	593	895	1174	1447	1383	1054	713	333	154	8561
55	0	0	19	81	238	486	734	670	368	109	7	0	2712
57	0	0	11	59	196	428	672	608	311	80	3	0	2368
60	0	0	5	35	142	344	579	515	232	47	1	0	1900
65	0	0	0	13	72	218	425	361	121	14	0	0	1224
70	0	0	0	3	29	118	275	219	48	3	0	0	695

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	31	94	214	372	655	932	1200	1130	817	484	154	34	31	125	339	711	1366	2298	3498	4628	5445	5929	6083	6117
45	3	33	110	243	503	782	1045	975	668	337	73	5	3	36	146	389	892	1674	2719	3694	4362	4699	4772	4777
50	0	5	47	135	359	633	890	820	520	214	23	0	0	5	52	187	546	1179	2069	2889	3409	3623	3646	3646
55	0	0	9	63	235	485	735	665	375	107	5	0	0	0	9	72	307	792	1527	2192	2567	2674	2679	2679
60	0	0	0	20	128	346	580	510	238	42	0	0	0	0	0	20	148	494	1074	1584	1822	1864	1864	1864
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	35	85	164	256	414	586	752	710	527	337	126	34	35	120	284	540	954	1540	2292	3002	3529	3866	3992	4026

(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/normals/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 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.

- | | |
|---|---|
| <ol style="list-style-type: none">a. Temperature/ Precipitation Tables<ol style="list-style-type: none">1. 1971-2000 Monthly Normals2. Cooperative Summary of the Day3. National Weather Service station records4. 1971-2000 serially complete daily datab. Degree Day Table<ol style="list-style-type: none">1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data | <ol style="list-style-type: none">c. Snow Tables<ol style="list-style-type: none">1. Snow Climatology2. Cooperative Summary of the Dayd. 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