

Climatology of the United States

No. 20

1971-2000

Station: MINDEN, NV

COOP ID: 265191

Climate Division: NV 1

NWS Call Sign:

Elevation: 4,709 Feet Lat: 38° 57N

Lon: 119° 47W

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	47.4	16.7	32.1	71	1981	23	39.0	1986	-24	1949	26	23.7	1993	1022	0	.0	.0	11.9	3.0	29.0	1.7
Feb	53.2	20.8	37.0	75	1951	10	43.0	1995	-24	1989	7	29.2	1990	785	0	.0	.0	15.8	1.2	25.9	.5
Mar	58.7	24.5	41.6	82+	1934	29	47.4	1993	-9	1952	21	36.3	1977	725	0	.0	.0	23.7	.1	26.1	@
Apr	65.2	28.3	46.8	90	1981	30	53.2	1992	9+	1963	17	38.5	1975	548	0	.0	@	27.6	.0	20.6	.0
May	73.4	35.0	54.2	95+	1986	31	60.9	1992	16	1948	10	47.8	1977	345	8	.0	.5	30.6	.0	8.9	.0
Jun	83.3	41.7	62.5	105	1981	24	67.1	1977	22	1954	6	58.8	1993	121	46	.1	6.1	30.0	.0	1.6	.0
Jul	91.6	46.1	68.9	108	1931	20	73.1	1988	29	1987	22	64.6	1987	26	145	1.2	17.7	31.0	.0	.4	.0
Aug	90.9	44.2	67.6	105+	1990	5	70.6	1988	28+	1945	14	61.3	1976	35	113	1.1	15.4	31.0	.0	.1	.0
Sep	83.6	37.7	60.7	102	1950	3	63.6	1991	20+	1931	23	53.8	1986	160	30	.0	5.0	30.0	.0	5.2	.0
Oct	72.2	28.6	50.4	94	2001	4	56.1	1988	3	1971	30	45.4	1981	455	2	.0	.6	29.6	.0	21.2	.0
Nov	57.8	21.8	39.8	80+	1962	1	46.0	1995	-9	1958	17	31.4	1994	757	0	.0	.0	21.8	.2	26.9	.2
Dec	48.8	16.1	32.5	72	1958	5	39.5	1981	-22	1990	21	22.9	1978	1008	0	.0	.0	13.3	2.6	28.9	1.6
Ann	68.8	30.1	49.5	108	Jul 1931	20	73.1	Jul 1988	-24+	Feb 1989	7	22.9	Dec 1978	5987	344	2.4	45.3	296.3	7.1	194.8	4.0

+ 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

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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	1.47	1.26	3.03	1963	31	5.46	1997	.00+	1985	5.5	3.7	1.0	.1	.00	.06	.24	.45	.69	.98	1.33	1.78	2.42	3.51	4.60	
Feb	1.19	.96	2.00	1936	22	5.16	1986	.04	1974	5.3	3.3	.7	.1	.04	.10	.23	.38	.56	.78	1.06	1.42	1.93	2.82	3.72	
Mar	1.10	.60	1.92	1995	11	5.17	1995	.00+	1997	4.4	2.6	.6	.1	.00	.00	.13	.29	.48	.70	.98	1.34	1.84	2.71	3.59	
Apr	.33	.14	1.09	2001	20	1.58	1982	.00+	1998	2.4	1.2	.1	.0	.00	.00	.00	.01	.07	.15	.25	.38	.58	.92	1.27	
May	.46	.16	1.08	1968	12	2.92	1995	.00+	1997	3.1	1.4	.1	.0	.00	.00	.00	.03	.10	.20	.34	.52	.80	1.29	1.80	
Jun	.42	.19	.90	1963	10	1.42	1997	.00+	1994	2.1	1.2	.2	.0	.00	.00	.02	.08	.16	.25	.36	.51	.72	1.08	1.44	
Jul	.22	.03	1.09	1986	23	1.11	1976	.00+	2000	1.2	.5	.1	@	.00	.00	.00	.00	.00	.03	.10	.22	.39	.70	1.02	
Aug	.33	.12	1.35	1965	17	2.38	1983	.00+	1998	1.9	1.0	.1	.0	.00	.00	.00	.00	.05	.12	.23	.37	.58	.95	1.33	
Sep	.39	.25	.87	1982	16	1.65	1982	.00+	1995	2.5	1.3	.2	.0	.00	.00	.00	.04	.11	.19	.31	.46	.67	1.05	1.43	
Oct	.58	.48	1.71	1962	14	1.91	1982	.00+	1995	2.8	1.6	.3	@	.00	.00	.11	.21	.32	.44	.57	.73	.95	1.31	1.65	
Nov	.89	.67	2.55	1950	19	4.69	1983	.00+	1989	3.8	2.2	.6	.1	.00	.00	.16	.31	.46	.64	.85	1.11	1.46	2.06	2.65	
Dec	1.00	.63	2.36	1955	23	4.61	1996	.00+	1989	4.1	2.6	.6	.1	.00	.00	.12	.27	.44	.64	.89	1.21	1.67	2.46	3.25	
Ann	8.38	7.40	3.03	Jan 1963	31	5.46	Jan 1997	.00+	Jul 2000	39.1	22.6	4.6	.5	3.24	4.02	5.12	6.04	6.91	7.80	8.76	9.86	11.28	13.44	15.41	

+ 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: 1928-2001

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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	6.0	2.3	2	#	15.5	1993	7	41.3	1993	24	1993	9	22	1993	2.4	2.0	.7	.3	.1	2.3	1.8	.9	.0
Feb	4.1	2.4	#	#	7.5	1998	23	20.5	1998	8	1976	7	1	1998	1.8	1.3	.7	.1	.0	1.8	1.1	.2	.0
Mar	3.4	1.0	#	0	9.5	1998	5	21.0	1975	7	1975	14	1	1975	1.4	1.2	.3	.2	.0	.7	.3	.1	.0
Apr	1.2	.0	#	0	7.0	1980	2	9.0	1980	7	1980	2	#+	1999	.6	.3	.1	.1	.0	.3	.1	.1	.0
May	.1	.0	#	0	2.0	1975	20	2.0	1975	2+	1977	16	#+	1977	.1	.1	.0	.0	.0	.1	.0	.0	.0
Jun	.0	.0	#	0	.0	0	0	.0	0	4	1999	3	#	1999	.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	.3	.0	#	0	5.0	1971	17	5.0	1971	5	1971	17	#+	1996	.1	.1	@	@	.0	.1	@	@	.0
Nov	1.7	.2	#	0	8.0	1994	17	14.6	1994	3	1978	2	#+	1998	.9	.5	.2	.1	.0	.3	.1	.0	.0
Dec	4.1	2.5	#	#	10.0	1992	28	19.3	1992	14	1992	29	3	1978	1.6	1.2	.4	.2	.1	1.7	1.1	.9	.1
Ann	20.9	8.4	N/A	N/A	15.5	Jan 1993	7	41.3	Jan 1993	24	Jan 1993	9	22	Jan 1993	8.9	6.7	2.4	1.0	.2	7.3	4.5	2.2	.1

+ 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	7/13	7/07	7/02	6/28	6/25	6/21	6/17	6/13	6/06
32	7/02	6/26	6/21	6/16	6/12	6/08	6/04	5/30	5/23
28	6/05	5/30	5/26	5/22	5/18	5/15	5/11	5/06	4/30
24	5/21	5/13	5/08	5/04	4/30	4/26	4/21	4/16	4/09
20	5/04	4/27	4/23	4/18	4/15	4/11	4/07	4/02	3/26
16	4/21	4/10	4/02	3/26	3/20	3/14	3/07	2/27	2/16
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	8/12	8/18	8/22	8/26	8/30	9/02	9/06	9/10	9/16
32	8/31	9/06	9/10	9/14	9/17	9/21	9/24	9/29	10/05
28	9/07	9/14	9/19	9/23	9/27	9/30	10/05	10/09	10/16
24	9/25	10/01	10/05	10/08	10/11	10/14	10/18	10/21	10/27
20	10/04	10/11	10/15	10/19	10/23	10/26	10/30	11/04	11/10
16	10/17	10/24	10/28	11/01	11/05	11/09	11/13	11/17	11/24
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	88	80	75	70	65	61	56	50	42
32	118	110	105	100	96	92	87	82	74
28	159	149	142	136	131	125	119	112	102
24	190	181	174	169	164	159	153	147	138
20	217	208	201	196	190	185	179	173	163
16	268	255	245	237	229	222	214	204	191

* 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)												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
Below													
65	1022	785	725	548	345	121	26	35	160	455	757	1008	5987
60	867	645	570	403	213	47	4	5	71	309	607	853	4594
57	774	561	478	321	150	22	0	1	38	232	517	760	3854
55	712	505	419	270	115	12	0	0	23	186	459	698	3399
50	563	370	278	161	49	2	0	0	5	93	318	550	2389
32	139	38	13	3	0	0	0	0	0	0	24	130	347

Cooling Degree Days (1)

Base	Cooling Degree Days (1)												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
Above													
32	140	177	312	446	687	915	1142	1101	860	570	257	145	6752
55	0	0	4	22	89	236	429	388	192	43	1	0	1404
57	0	0	1	14	62	186	367	327	147	27	0	0	1131
60	0	0	0	6	32	122	278	239	91	12	0	0	780
65	0	0	0	0	8	46	145	113	30	2	0	0	344
70	0	0	0	0	0	10	57	35	5	0	0	0	107

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	20	50	115	230	449	679	885	845	612	327	86	27	20	70	185	415	864	1543	2428	3273	3885	4212	4298	4325
45	3	11	42	120	308	529	730	690	464	198	35	4	3	14	56	176	484	1013	1743	2433	2897	3095	3130	3134
50	0	0	7	47	176	384	575	535	318	101	6	0	0	0	7	54	230	614	1189	1724	2042	2143	2149	2149
55	0	0	0	14	82	246	420	380	190	37	0	0	0	0	0	14	96	342	762	1142	1332	1369	1369	1369
60	0	0	0	0	25	129	269	234	87	7	0	0	0	0	0	0	25	154	423	657	744	751	751	751
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	38	77	134	223	350	466	561	543	456	320	126	42	38	115	249	472	822	1288	1849	2392	2848	3168	3294	3336

(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:

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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/normals/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/normals.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normals/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