

Climatography of the United States

No. 20

1971-2000

Station: VIRGINIA CITY, NV

COOP ID: 268761

Climate Division: NV 1

NWS Call Sign:

Elevation: 6,340 Feet Lat: 39° 19N

Lon: 119° 39W

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	40.2	22.7	31.5	63+	1959	17	38.4	1986	-1	1997	13	24.0	1979	1042	0	.0	.0	5.4	6.0	26.1	.2
Feb	43.0	25.3	34.2	70	1986	28	43.6	1991	-9	1989	5	28.1	1989	864	0	.0	.0	7.9	3.2	21.9	.2
Mar	47.9	29.0	38.5	74	1966	30	46.1	1997	4	1971	1	32.4	1977	822	0	.0	.0	15.3	1.2	19.4	.0
Apr	54.4	34.1	44.3	79	1989	7	52.8	1992	10	1970	27	34.1	1975	628	5	.0	.0	21.2	.2	12.4	.0
May	63.2	41.8	52.5	109	1984	10	62.7	1992	15	1970	12	42.7	1977	406	19	@	@	28.0	.0	5.0	.0
Jun	73.0	50.3	61.7	95+	1961	20	66.8+	2000	28+	1954	6	55.6	1980	165	65	.0	.3	29.6	.0	.5	.0
Jul	82.2	57.9	70.1	98	1972	15	75.5	1994	36+	1975	2	61.2	1983	43	199	.0	4.5	31.0	.0	.0	.0
Aug	81.0	57.2	69.1	100	1970	9	73.3	1998	31	1951	24	60.2	1976	46	172	.0	2.7	31.0	.0	.0	.0
Sep	72.4	49.3	60.9	93+	1955	3	65.8	1995	21+	1965	17	52.7	1986	192	68	.0	.2	29.6	.0	.8	.0
Oct	61.1	39.5	50.3	84+	1980	1	59.1	1988	11	1971	29	43.1	1982	468	13	.0	.0	26.7	.2	7.3	.0
Nov	48.0	29.3	38.7	72	1976	6	49.5	1995	8+	1958	16	30.8	1982	790	0	.0	.0	14.0	1.6	18.2	.0
Dec	41.1	23.5	32.3	69	1958	4	38.2	1980	-11	1972	9	25.0	1990	1015	0	.0	.0	6.6	5.2	25.9	.4
Ann	59.0	38.3	48.7	109	May 1984	10	75.5	Jul 1994	-11	Dec 1972	9	24.0	Jan 1979	6481	541	@	7.7	246.3	17.6	137.5	.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: 1951-2001

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

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**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: VIRGINIA CITY, NV

COOP ID: 268761

Climate Division: NV 1

NWS Call Sign:

Elevation: 6,340 Feet Lat: 39°19N

Lon: 119°39W

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	2.14	1.84	2.18	1969	20	6.77	1980	.03	1991	7.1	4.9	1.4	.2	.14	.27	.54	.83	1.16	1.54	2.00	2.59	3.41	4.80	6.18
Feb	2.19	1.85	1.78	1986	19	7.41	1986	.11	1988	7.0	5.0	1.4	.4	.30	.48	.79	1.10	1.42	1.77	2.18	2.68	3.36	4.46	5.53
Mar	1.96	1.63	1.69	1995	11	5.24	1995	.08	1990	6.7	4.6	1.2	.4	.14	.27	.52	.79	1.09	1.44	1.85	2.38	3.12	4.36	5.59
Apr	.72	.65	1.15	1990	20	2.65	1982	.00	1985	3.7	2.2	.3	.1	.02	.07	.16	.27	.38	.51	.67	.88	1.16	1.63	2.11
May	.92	.43	2.00	1968	12	3.38	1971	.00+	1999	4.5	2.8	.5	.1	.00	.00	.13	.28	.43	.62	.85	1.13	1.53	2.22	2.90
Jun	.70	.53	1.62	1969	9	3.22	1998	.00+	1994	2.8	1.8	.5	.1	.00	.00	.00	.12	.25	.41	.61	.86	1.21	1.82	2.43
Jul	.33	.20	1.50	1986	25	2.07	1986	.00+	2000	1.9	.9	.2	@	.00	.00	.00	.03	.09	.16	.26	.39	.57	.90	1.23
Aug	.40	.20	1.18	1965	15	2.05	1989	.00+	1998	2.2	1.2	.2	@	.00	.00	.00	.02	.09	.18	.30	.47	.71	1.13	1.56
Sep	.63	.36	1.03	1978	14	3.79	1982	.00+	1999	2.9	1.6	.4	@	.00	.00	.00	.08	.21	.36	.54	.77	1.10	1.66	2.21
Oct	.86	.63	1.48	1984	16	3.29	1972	.00+	1995	3.5	2.4	.5	.1	.00	.00	.18	.33	.48	.64	.84	1.08	1.39	1.93	2.45
Nov	1.72	1.29	1.44	1977	22	7.00	1983	.04	1992	5.5	4.0	1.2	.3	.09	.18	.39	.62	.88	1.20	1.58	2.07	2.77	3.95	5.14
Dec	1.72	1.41	1.90+	1955	23	6.40	1996	.00	1989	6.2	3.9	1.1	.3	.04	.14	.36	.60	.88	1.20	1.59	2.09	2.79	3.97	5.15
Ann	14.29	12.87	2.18	Jan 1969	20	7.41	Feb 1986	.00+	Jul 2000	54.0	35.3	8.9	2.0	7.55	8.71	10.27	11.51	12.65	13.78	14.97	16.32	18.01	20.52	22.76

+ 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: 1951-2001

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

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

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No. 20

1971-2000

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Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
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Station: VIRGINIA CITY, NV

COOP ID: 268761

Climate Division: NV 1

NWS Call Sign:

Elevation: 6,340 Feet

Lat: 39° 19N

Lon: 119° 39W

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	11.9	12.0	5	3	21.0	1982	5	26.0	1995	51	1993	10	33	1993	4.7	4.3	2.2	.8	.2	14.5	10.7	7.5	3.1
Feb	14.9	13.0	4	2	18.0	1990	16	52.0	1998	29	1990	19	16	1975	4.4	4.1	2.1	1.0	.3	12.5	9.3	6.5	4.1
Mar	8.4	5.0	1	#	19.0	1975	22	33.5	1985	27	1985	28	5	1996	2.7	2.6	1.3	.5	.2	5.9	3.5	2.0	1.1
Apr	2.1	1.0	#	#	4.0	1975	5	9.1	1999	10	1982	2	2	1982	1.2	1.0	.4	.0	.0	1.8	.8	.2	.1
May	1.5	.0	#	#	6.0	1998	12	6.0	1998	6	1998	12	#+	1999	.8	.7	.2	@	.0	.7	.1	@	.0
Jun	.1	.0	#	0	2.0	1995	6	2.0	1995	2	1995	6	#+	1999	.1	.1	.0	.0	.0	.1	.0	.0	.0
Jul	.0	.0	#	0	.0	0	0	.0	0	#	1990	13	#	1990	.0	.0	.0	.0	.0	.0	.0	.0	.0
Aug	.0	.0	#	0	.0	0	0	.0	0	#+	1999	22	#+	1999	.0	.0	.0	.0	.0	.0	.0	.0	.0
Sep	.3	.0	#	0	6.0	1982	29	6.0	1982	6	1982	29	#+	1986	.1	.1	@	@	.0	.1	.1	@	.0
Oct	.8	.0	#	#	7.0	1984	16	7.0+	1984	7	1984	17	1	1984	.4	.3	.1	@	.0	.4	.2	.1	.0
Nov	7.1	3.0	1	#	10.0	1985	10	24.0	1994	19	1985	12	6	1994	2.4	2.2	1.1	.5	@	5.2	2.9	1.4	.5
Dec	11.2	7.8	3	2	18.5	1996	22	44.3	1996	39	1992	31	11	1996	3.7	3.2	1.3	.8	.1	9.3	5.8	4.2	1.9
Ann	58.3	41.8	N/A	N/A	21.0	Jan 1982	5	52.0	Feb 1998	51	Jan 1993	10	33	Jan 1993	20.5	18.6	8.7	3.6	.8	50.5	33.4	21.9	10.8

+ 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

Complete documentation available from:

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Station: VIRGINIA CITY, NV

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Climate Division: NV 1

NWS Call Sign:

Elevation: 6,340 Feet

Lat: 39° 19N

Lon: 119° 39W

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	6/20	6/15	6/11	6/08	6/04	6/01	5/29	5/25	5/20
32	6/10	6/04	5/30	5/26	5/22	5/18	5/14	5/10	5/03
28	5/30	5/22	5/15	5/10	5/05	4/30	4/25	4/19	4/10
24	5/15	5/06	4/30	4/24	4/19	4/14	4/08	4/02	3/23
20	4/25	4/15	4/08	4/01	3/27	3/21	3/14	3/07	2/25
16	4/05	3/21	3/11	3/02	2/21	2/13	2/04	1/25	1/10
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	9/03	9/12	9/18	9/23	9/27	10/02	10/07	10/13	10/21
32	9/18	9/26	10/02	10/06	10/11	10/15	10/20	10/26	11/03
28	10/05	10/12	10/17	10/21	10/25	10/29	11/02	11/07	11/13
24	10/16	10/24	10/29	11/03	11/07	11/11	11/16	11/21	11/29
20	10/31	11/07	11/11	11/16	11/19	11/23	11/27	12/02	12/09
16	11/10	11/18	11/23	11/28	12/02	12/06	12/11	12/16	12/24
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	141	132	125	120	114	109	103	97	87
32	173	162	154	147	141	135	128	120	109
28	209	197	187	179	172	164	157	147	134
24	236	224	216	208	201	194	187	178	166
20	273	261	252	244	237	230	222	213	201
16	333	314	301	291	281	272	262	250	234

* 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

Complete documentation available from:
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Climate Division: NV 1 NWS Call Sign: Elevation: 6,340 Feet Lat: 39°19N Lon: 119°39W

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	1042	864	822	628	406	165	43	46	192	468	790	1015	6481
60	887	724	670	490	280	86	13	14	111	335	642	860	5112
57	794	640	581	410	218	52	5	5	73	265	555	767	4365
55	732	584	523	361	181	35	2	2	53	223	499	705	3900
50	577	445	385	252	105	11	0	0	21	135	366	553	2850
32	134	70	62	30	3	0	0	0	0	6	58	129	492

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	116	130	263	397	639	891	1180	1149	866	573	258	137	6599
55	0	0	11	38	104	236	469	438	229	77	10	0	1612
57	0	0	7	27	78	193	410	379	189	57	6	0	1346
60	0	0	3	17	48	136	325	295	136	34	2	0	996
65	0	0	0	5	19	65	199	172	68	13	0	0	541
70	0	0	0	0	6	24	107	85	27	3	0	0	252

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	26	42	97	201	423	676	950	924	653	364	109	32	26	68	165	366	789	1465	2415	3339	3992	4356	4465	4497
45	0	10	37	110	288	530	795	769	504	238	46	4	0	10	47	157	445	975	1770	2539	3043	3281	3327	3331
50	0	0	5	51	177	387	640	614	363	140	13	0	0	0	5	56	233	620	1260	1874	2237	2377	2390	2390
55	0	0	0	20	93	254	487	459	236	64	1	0	0	0	0	20	113	367	854	1313	1549	1613	1614	1614
60	0	0	0	0	40	144	335	307	129	23	0	0	0	0	0	0	40	184	519	826	955	978	978	978
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	10	23	55	115	247	422	632	608	403	213	57	13	10	33	88	203	450	872	1504	2112	2515	2728	2785	2798

(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 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