

Climatography of the United States

No. 20

1971-2000

Station: MCGILL, NV

COOP ID: 264950

Climate Division: NV 2

NWS Call Sign:

Elevation: 6,270 Feet Lat: 39° 24N

Lon: 114° 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	38.6	15.1	26.9	65+	1951	26	35.2	1986	-25	1937	20	18.6	1979	1182	0	.0	.0	4.4	7.4	29.6	3.2
Feb	42.2	18.8	30.5	68	1930	17	39.7	1995	-22	1933	9	22.6	1993	966	0	.0	.0	7.6	4.5	26.3	1.5
Mar	48.6	24.1	36.4	73	1966	31	42.4	1986	-4	1971	2	30.0	1973	888	0	.0	.0	15.6	1.3	26.3	.1
Apr	56.3	29.2	42.8	85	1936	26	50.7	1992	6+	1929	7	31.9	1975	669	0	.0	.0	21.7	.3	19.2	.0
May	65.9	36.6	51.3	92	1969	27	57.4	1992	15	1965	7	45.0	1977	431	6	.0	.0	28.3	@	8.2	.0
Jun	77.4	45.8	61.6	99	1954	23	66.3	1974	28+	1944	9	55.4	1995	159	57	.0	1.7	29.7	.0	.9	.0
Jul	85.5	53.7	69.6	100+	1931	20	72.4	1994	35	1997	1	64.9	1993	19	161	.0	7.4	31.0	.0	.0	.0
Aug	83.7	52.8	68.3	100	1938	5	71.7	1998	27	1960	23	63.4	1976	30	131	.0	4.2	31.0	.0	.1	.0
Sep	74.7	43.4	59.1	93+	1950	2	63.4	1979	20	1959	27	53.7	1986	196	17	.0	.2	29.6	.0	2.2	.0
Oct	62.5	33.3	47.9	88	1964	5	54.7	1988	4+	1971	29	42.0	1984	531	0	.0	.0	26.7	.3	14.7	.0
Nov	48.0	22.7	35.4	75	1975	5	43.5	1999	-8	1931	23	28.4	1994	889	0	.0	.0	14.1	2.8	25.6	.2
Dec	40.1	15.7	27.9	67	1958	4	35.2	1981	-24	1932	12	20.2	1990	1151	0	.0	.0	5.7	6.5	29.3	1.9
Ann	60.3	32.6	46.5	100+	Aug 1938	5	72.4	Jul 1994	-25	Jan 1937	20	18.6	Jan 1979	7111	372	.0	13.5	245.4	23.1	182.4	6.9

+ 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

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Climatology 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: MCGILL, NV

COOP ID: 264950

Climate Division: NV 2

NWS Call Sign:

Elevation: 6,270 Feet Lat: 39°24N

Lon: 114°47W

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	.54	.43	1.00	1942	28	1.55	1997	.02	1986	5.8	2.0	.1	.0	.07	.11	.19	.27	.35	.44	.54	.66	.83	1.11	1.38
Feb	.54	.29	1.75	1930	26	1.95	2000	.01	1972	5.2	1.6	.2	@	.02	.05	.11	.18	.27	.37	.49	.65	.87	1.26	1.64
Mar	.68	.61	1.06	1938	3	1.64	1978	.00	1997	7.2	2.2	.1	.0	.05	.12	.23	.33	.43	.54	.67	.83	1.05	1.40	1.74
Apr	.87	.74	2.00	1988	18	3.19	1978	.07+	1992	5.8	2.6	.3	@	.06	.11	.22	.34	.47	.63	.82	1.05	1.38	1.94	2.50
May	1.21	.93	2.02	1956	11	3.11	1971	.07	1984	7.1	3.6	.5	@	.12	.21	.37	.54	.72	.93	1.17	1.47	1.88	2.57	3.23
Jun	.72	.69	1.27	1967	13	1.92	1995	.00+	1986	3.8	2.2	.3	@	.00	.00	.16	.28	.41	.55	.71	.91	1.18	1.63	2.06
Jul	.66	.52	1.07	1937	6	1.88	1985	.00+	1995	3.7	1.8	.3	@	.00	.00	.11	.21	.33	.46	.62	.81	1.08	1.54	2.00
Aug	.74	.63	1.26	1929	4	3.25	1983	.00+	1998	4.7	2.3	.2	.1	.00	.04	.14	.25	.37	.51	.69	.90	1.21	1.73	2.24
Sep	.94	.62	2.57	1982	27	5.57	1982	.00	1974	4.6	2.3	.5	.1	.01	.04	.13	.24	.39	.57	.80	1.11	1.56	2.35	3.15
Oct	.95	.87	1.20	1976	1	3.38	1981	.00	1995	4.2	2.6	.5	@	.05	.15	.29	.43	.58	.75	.94	1.18	1.50	2.03	2.55
Nov	.54	.39	1.26	1960	7	1.83	1997	.00	1995	4.3	1.6	.1	.0	.02	.05	.13	.21	.29	.39	.51	.66	.87	1.22	1.56
Dec	.35	.27	1.53	1967	1	1.29	1983	.00+	1986	4.3	1.2	@	.0	.00	.00	.08	.14	.20	.26	.34	.44	.56	.77	.98
Ann	8.74	8.53	2.57	Sep 1982	27	5.57	Sep 1982	.00+	Aug 1998	60.7	26.0	3.1	.2	5.28	5.91	6.73	7.38	7.96	8.53	9.12	9.79	10.61	11.83	12.90

+ 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

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

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Station: MCGILL, NV

COOP ID: 264950

Climate Division: NV 2

NWS Call Sign:

Elevation: 6,270 Feet

Lat: 39°24N

Lon: 114°47W

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	4.3	-99.9	2	2	4.8	1987	5	8.5	1988	13	1993	19	8	1993	1.5	.8	.2	.0	.0	-9.9	-9.9	-9.9	-9.9
Feb	3.3	-99.9	1	1	12.0	1990	18	13.0	2000	12	1990	19	6	1993	2.2	1.8	.6	.2	.1	-9.9	-9.9	-9.9	-9.9
Mar	5.1	4.5	1	#	4.0	1996	29	8.5	1996	8	1993	1	4	1986	1.2	.8	.2	.0	.0	1.5	.3	.0	.0
Apr	1.1	.0	#	#	6.5	1998	6	6.5	1998	7	1998	6	1	1999	.6	.4	.1	.1	.0	.2	@	@	.0
May	.2	.0	#	0	2.5	1989	30	2.5	1989	3	1989	30	#+	1994	.1	.1	.0	.0	.0	.1	@	.0	.0
Jun	#	.0	#	0	#	1979	18	#	1979	#	1979	18	#	1979	.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	#	1992	6	#	1992	.0	.0	.0	.0	.0	.0	.0	.0	.0
Sep	.1	.0	#	0	1.0	1996	17	1.0	1996	2	1982	30	#	1982	.1	.1	.0	.0	.0	.0	.0	.0	.0
Oct	.6	.0	#	0	4.0	1985	9	6.0	1985	3	1996	31	#+	1998	.3	.3	.1	.0	.0	.1	@	.0	.0
Nov	.8	.2	#	#	4.5	2000	9	4.5	2000	10	1985	12	2+	2000	.9	.4	.2	.0	.0	1.0	.5	.2	.0
Dec	3.0	1.3	1	1	6.0	1992	30	12.2	1983	7	1987	30	3	1984	1.4	.9	.1	.1	.0	1.5	.2	.1	.0
Ann	18.5	-9.9	N/A	N/A	12.0	Feb 1990	18	13.0	Feb 2000	13	Jan 1993	19	8	Jan 1993	8.3	5.6	1.5	.4	.1	-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

Complete documentation available from:

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Elevation: 6,270 Feet

Lat: 39° 24N

Lon: 114° 47W

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	6/26	6/21	6/17	6/14	6/11	6/08	6/05	6/01	5/27
32	6/19	6/13	6/08	6/04	6/01	5/28	5/24	5/20	5/14
28	5/31	5/25	5/21	5/17	5/14	5/11	5/07	5/03	4/27
24	5/17	5/11	5/07	5/04	4/30	4/27	4/23	4/19	4/13
20	5/07	4/28	4/22	4/17	4/12	4/08	4/02	3/27	3/19
16	4/13	4/06	3/31	3/27	3/22	3/18	3/13	3/08	2/28
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	8/29	9/03	9/08	9/11	9/15	9/18	9/21	9/26	10/01
32	9/03	9/10	9/15	9/20	9/24	9/28	10/02	10/08	10/15
28	9/22	9/27	10/01	10/04	10/07	10/10	10/13	10/17	10/22
24	10/07	10/12	10/16	10/19	10/22	10/25	10/28	11/01	11/06
20	10/16	10/22	10/26	10/29	11/01	11/04	11/08	11/12	11/17
16	10/24	10/29	11/02	11/05	11/08	11/11	11/15	11/18	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	120	111	105	100	95	90	84	78	70
32	147	136	128	121	115	108	101	93	82
28	171	162	156	150	145	140	135	128	119
24	196	189	183	179	174	170	165	160	152
20	231	221	214	208	202	196	190	183	173
16	261	251	243	237	230	224	218	210	200

* 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	1182	966	888	669	431	159	19	30	196	531	889	1151	7111
60	1027	826	733	525	294	80	3	5	93	383	739	996	5704
57	934	742	640	443	222	47	1	1	52	301	649	903	4935
55	872	686	580	389	180	31	0	0	33	250	590	841	4452
50	717	546	434	268	97	9	0	0	7	145	446	686	3355
32	225	143	68	28	1	0	0	0	0	4	76	205	750

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	66	101	203	349	599	888	1165	1123	811	496	177	77	6055
55	0	0	2	20	65	229	452	410	154	30	1	0	1363
57	0	0	0	14	44	185	391	349	113	18	0	0	1114
60	0	0	0	7	23	128	300	260	64	7	0	0	789
65	0	0	0	0	6	57	161	131	17	0	0	0	372
70	0	0	0	0	0	18	63	46	2	0	0	0	129

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	2	21	62	170	376	663	926	884	577	281	67	11	2	23	85	255	631	1294	2220	3104	3681	3962	4029	4040
45	0	1	20	84	243	514	771	729	431	167	22	0	0	1	21	105	348	862	1633	2362	2793	2960	2982	2982
50	0	0	0	35	136	370	616	574	293	82	3	0	0	0	0	35	171	541	1157	1731	2024	2106	2109	2109
55	0	0	0	11	59	239	461	421	169	27	0	0	0	0	0	11	70	309	770	1191	1360	1387	1387	1387
60	0	0	0	0	16	129	306	268	79	3	0	0	0	0	0	0	16	145	451	719	798	801	801	801
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	6	26	62	138	264	435	600	577	390	224	66	12	6	32	94	232	496	931	1531	2108	2498	2722	2788	2800

(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