

Climatography of the United States

No. 20

1971-2000

Station: GLENBROOK, NV

COOP ID: 263205

Climate Division: NV 1

NWS Call Sign:

Elevation: 6,350 Feet Lat: 39°05N

Lon: 119°56W

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	42.4	23.8	33.1	61+	1976	16	38.5	1986	-4+	1962	22	28.2	1993	989	0	.0	.0	4.3	2.7	28.6	.1
Feb	44.0	24.8	34.4	68	1977	17	39.1	1991	-6	1989	6	30.3	1998	857	0	.0	.0	7.2	2.0	25.8	.1
Mar	47.7	26.7	37.2	68	1966	31	42.6	1972	4	1952	21	31.1	1977	847	0	.0	.0	13.3	.9	26.5	.0
Apr	53.5	29.9	41.7	76	1981	30	47.2	1987	11+	1975	6	34.4	1975	699	0	.0	.0	21.0	.1	20.4	.0
May	61.5	35.8	48.7	86	1954	18	54.3	1992	16	1950	7	40.3	1977	509	1	.0	.0	27.1	@	9.3	.0
Jun	71.0	42.6	56.8	95	1954	21	61.8	1981	24	1952	12	52.7	1998	258	12	.0	.0	29.5	.0	1.5	.0
Jul	78.3	48.5	63.4	96	1960	17	67.4	1972	30	1976	5	58.7	1989	107	57	.0	.4	31.0	.0	.1	.0
Aug	78.0	49.0	63.5	94	1954	1	68.2	1981	27+	1978	23	57.0	1976	106	60	.0	.5	31.0	.0	.2	.0
Sep	71.8	44.3	58.1	95+	1955	1	62.7	1974	16	1978	19	52.1	1986	221	12	.0	.1	29.8	.0	1.2	.0
Oct	61.5	36.5	49.0	82	1980	4	56.0	1988	9	1971	30	44.4	1984	497	1	.0	.0	27.1	@	9.0	.0
Nov	49.2	29.1	39.2	70	1974	15	46.1	1995	6	1975	29	31.8	1994	776	0	.0	.0	14.4	.8	21.2	.0
Dec	42.8	24.5	33.7	63	1948	3	39.3	1981	-10	1978	31	27.3	1972	973	0	.0	.0	5.7	3.1	27.2	.2
Ann	58.5	34.6	46.6	96	Jul 1960	17	68.2	Aug 1981	-10	Dec 1978	31	27.3	Dec 1972	6839	143	.0	1.0	241.4	9.6	171.0	.4

+ 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/normals/usnormals.html

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1948-2001

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

024-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: GLENBROOK, NV

COOP ID: 263205

Climate Division: NV 1

NWS Call Sign:

Elevation: 6,350 Feet Lat: 39°05N

Lon: 119°56W

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	2.86	2.35	3.55	1967	21	10.00	1997	.00	1991	7.2	5.6	2.1	.7	.09	.30	.70	1.11	1.57	2.09	2.72	3.50	4.60	6.43	8.24
Feb	2.68	2.62	1.97	1986	17	9.83	1986	.00	1988	6.8	4.9	1.9	.6	.13	.37	.77	1.17	1.59	2.06	2.61	3.30	4.24	5.80	7.32
Mar	2.38	1.86	2.53	1983	13	9.06	1995	.09	1997	7.4	4.9	1.6	.5	.12	.25	.53	.85	1.22	1.65	2.18	2.86	3.83	5.47	7.12
Apr	.88	.91	2.15	1958	4	2.22	1983	.00+	1977	4.4	2.6	.4	.0	.00	.07	.22	.36	.50	.67	.86	1.09	1.42	1.96	2.49
May	.88	.55	1.47	2000	24	3.31	1971	.00	1985	4.5	2.4	.5	.1	.01	.05	.14	.25	.39	.56	.77	1.05	1.44	2.13	2.83
Jun	.54	.33	1.25	1998	7	3.00	1998	.00+	1994	2.7	1.4	.3	@	.00	.00	.03	.12	.23	.35	.49	.67	.93	1.36	1.81
Jul	.31	.10	1.15	1974	9	1.40	1974	.00+	2000	1.9	.8	.1	@	.00	.00	.00	.00	.07	.15	.24	.38	.56	.88	1.19
Aug	.48	.18	1.15	1990	19	2.38	1983	.00+	1998	2.0	1.2	.3	@	.00	.00	.00	.00	.05	.13	.27	.47	.80	1.41	2.07
Sep	.87	.33	1.05	1982	24	4.06	1982	.00+	2000	3.2	1.8	.5	.1	.00	.00	.00	.05	.18	.37	.63	.98	1.51	2.45	3.41
Oct	1.15	.89	1.70	1962	14	4.25	1975	.00+	1995	4.1	2.6	.8	.1	.00	.00	.25	.44	.64	.87	1.13	1.45	1.87	2.59	3.29
Nov	2.15	1.62	2.52	1950	18	6.70	1983	.03	1986	6.2	4.3	1.6	.4	.09	.19	.42	.70	1.04	1.43	1.93	2.57	3.49	5.08	6.68
Dec	2.21	1.45	2.85	1950	3	8.57	1996	.00+	2000	5.9	4.1	1.3	.5	.00	.17	.53	.87	1.24	1.65	2.14	2.73	3.56	4.93	6.27
Ann	17.39	15.31	3.55	Jan 1967	21	10.00	Jan 1997	.00+	Dec 2000	56.3	36.6	11.4	3.0	7.95	9.49	11.61	13.32	14.92	16.53	18.25	20.21	22.68	26.42	29.79

+ 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: 1948-2001

(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
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Station: GLENBROOK, NV

COOP ID: 263205

Climate Division: NV 1

NWS Call Sign:

Elevation: 6,350 Feet

Lat: 39°05N

Lon: 119°56W

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	9.8	8.0	7	5	14.0	1981	28	24.5	1973	43	1993	1	27	1993	3.0	2.8	1.6	.8	.2	-9.9	-9.9	-9.9	-9.9
Feb	12.2	8.0	5	4	15.0	1999	8	42.0	1975	30	1998	23	16	1998	3.5	3.3	1.7	1.1	.4	-9.9	-9.9	-9.9	-9.9
Mar	9.3	5.5	3	#	14.0	1975	22	43.0	1975	24	1995	24	11	1985	2.8	2.5	1.3	.7	.2	.7	.4	.1	.0
Apr	3.3	.0	#	0	6.0	1971	26	14.5	1983	27	1982	2	5	1982	1.0	1.0	.4	.1	.0	.2	.1	.0	.0
May	.7	.0	#	0	8.0	1971	31	8.0	1971	6	1998	13	#+	1998	.2	.2	.1	@	.0	.0	.0	.0	.0
Jun	.2	.0	#	0	4.0	1992	14	4.0	1992	1	1982	5	#+	1995	.1	.1	@	.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	.8	.0	#	0	5.0	1971	16	5.0+	1984	3	1985	9	#+	1996	.3	.3	.2	@	.0	.1	.1	.0	.0
Nov	3.7	2.2	1	#	20.0	1985	10	24.0	1985	16	1994	26	6	1994	1.9	1.6	.8	.3	@	.9	.3	.1	.1
Dec	11.5	7.0	2	1	22.0	1973	1	37.5	1971	36	1996	22	16	1978	2.5	2.4	1.4	.6	.2	-9.9	-9.9	-9.9	-9.9
Ann	51.5	30.7	N/A	N/A	22.0	Dec 1973	1	43.0	Mar 1975	43	Jan 1993	1	27	Jan 1993	15.3	14.2	7.5	3.6	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

Complete documentation available from:

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Station: GLENBROOK, NV

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Climate Division: NV 1

NWS Call Sign:

Elevation: 6,350 Feet

Lat: 39° 05N

Lon: 119° 56W

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	7/12	7/05	6/30	6/25	6/21	6/17	6/13	6/07	5/31
32	6/25	6/19	6/14	6/10	6/06	6/02	5/29	5/24	5/18
28	6/08	6/01	5/27	5/23	5/19	5/15	5/11	5/06	4/29
24	5/22	5/14	5/08	5/03	4/28	4/23	4/18	4/11	4/03
20	5/14	5/03	4/25	4/18	4/12	4/06	3/30	3/22	3/12
16	4/21	4/07	3/28	3/19	3/11	3/03	2/22	2/12	1/29
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	8/21	8/30	9/05	9/10	9/14	9/19	9/24	9/30	10/08
32	9/13	9/21	9/26	10/01	10/05	10/09	10/14	10/19	10/27
28	9/24	10/02	10/07	10/12	10/17	10/21	10/26	11/01	11/08
24	10/08	10/16	10/22	10/27	10/31	11/05	11/10	11/16	11/24
20	10/20	10/28	11/03	11/07	11/12	11/16	11/21	11/27	12/05
16	11/03	11/12	11/19	11/25	11/30	12/06	12/12	12/19	12/28
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	119	107	99	91	85	78	71	62	50
32	149	139	132	126	120	115	109	102	92
28	184	172	164	157	150	143	136	127	116
24	221	209	200	193	186	179	172	163	152
20	253	239	229	221	213	205	197	187	174
16	316	298	285	274	264	253	242	229	211

* 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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NWS Call Sign:

Elevation: 6,350 Feet Lat: 39°05N Lon: 119°56W

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	989	857	847	699	509	258	107	106	221	497	776	973	6839
60	834	717	707	549	364	143	36	36	110	350	626	818	5290
57	741	633	614	461	282	92	15	14	63	269	536	725	4445
55	679	577	552	404	233	64	8	8	40	220	478	663	3926
50	524	437	401	269	133	21	0	0	9	120	338	509	2761
32	60	37	34	14	2	0	0	0	0	1	29	82	259

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	94	104	195	305	517	744	973	977	782	528	243	132	5594
55	0	0	0	5	35	119	268	272	132	33	2	0	866
57	0	0	0	2	22	86	213	217	95	20	0	0	655
60	0	0	0	0	11	47	141	145	52	8	0	0	404
65	0	0	0	0	1	12	57	60	12	1	0	0	143
70	0	0	0	0	0	1	14	15	1	0	0	0	31

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	5	14	39	115	287	514	731	731	547	292	73	12	5	19	58	173	460	974	1705	2436	2983	3275	3348	3360
45	0	0	0	36	165	370	576	576	399	167	21	0	0	0	0	36	201	571	1147	1723	2122	2289	2310	2310
50	0	0	0	6	73	229	421	421	255	73	0	0	0	0	0	6	79	308	729	1150	1405	1478	1478	1478
55	0	0	0	0	19	111	269	272	130	22	0	0	0	0	0	0	19	130	399	671	801	823	823	823
60	0	0	0	0	2	35	129	138	42	0	0	0	0	0	0	0	2	37	166	304	346	346	346	346
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	2	15	31	87	196	328	462	460	348	195	52	8	2	17	48	135	331	659	1121	1581	1929	2124	2176	2184

(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