

Climatography of the United States

No. 20

1971-2000

Station: GIBBS RANCH, NV

COOP ID: 263114

Climate Division: NV 2

NWS Call Sign:

Elevation: 6,000 Feet Lat: 41° 34N

Lon: 115° 13W

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	35.0	9.3	22.2	58	1971	31	32.0	1981	-30	1963	12	12.5	1989	1328	0	.0	.0	1.6	10.0	30.7	8.3
Feb	39.5	14.0	26.8	66	1963	9	34.9	1991	-33	1982	5	19.6	1993	1071	0	.0	.0	3.4	5.6	27.9	4.4
Mar	46.1	21.8	34.0	72	1986	29	40.4	1986	-16	1966	4	26.8	1985	964	0	.0	.0	11.3	1.2	29.2	.5
Apr	55.3	26.6	41.0	81	1992	30	46.7	1992	-1	1966	20	33.5	1975	723	0	.0	.0	20.9	.2	25.6	.0
May	64.2	33.5	48.9	88+	1954	19	54.9	1992	7	1965	6	43.8	1977	500	0	.0	.0	28.8	.0	14.3	.0
Jun	74.8	40.0	57.4	94+	1954	22	62.0	1986	15	1954	2	52.8	1995	245	18	.0	1.1	29.7	.0	3.9	.0
Jul	84.3	45.9	65.1	99+	1998	18	69.5	1998	21	1983	10	57.1	1993	84	87	.0	7.3	31.0	.0	.5	.0
Aug	83.4	44.0	63.7	99+	2000	1	67.0	1986	19	1964	29	58.9	1976	92	51	.0	4.7	31.0	.0	1.1	.0
Sep	74.8	36.6	55.7	93	1955	5	61.6	1990	10	1965	18	49.9	1986	287	7	.0	.3	29.7	.0	9.7	.0
Oct	62.2	27.0	44.6	86	1996	9	50.8	1988	-3	1996	21	39.2	1984	633	0	.0	.0	26.2	.1	24.9	@
Nov	44.9	18.4	31.7	72+	1965	1	38.4	1995	-16	1993	25	22.3	1994	1001	0	.0	.0	10.4	3.2	28.6	1.6
Dec	36.6	10.8	23.7	59+	1962	9	32.2	1980	-38	1990	22	13.0	1990	1281	0	.0	.0	2.4	8.6	30.4	6.1
Ann	58.4	27.3	42.9	99+	Aug 2000	1	69.5	Jul 1998	-38	Dec 1990	22	12.5	Jan 1989	8209	163	.0	13.4	226.4	28.9	226.8	20.9

+ 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: 1952-2001

(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: GIBBS RANCH, NV

COOP ID: 263114

Climate Division: NV 2

NWS Call Sign:

Elevation: 6,000 Feet Lat: 41°34N

Lon: 115°13W

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	1.18	1.14	.84	1996	19	2.73	1996	.12	1992	6.5	3.7	.3	.0	.20	.30	.47	.63	.80	.98	1.18	1.44	1.77	2.32	2.84
Feb	.78	.72	.94	1986	18	2.61	1986	.12	1981	5.6	2.5	.2	.0	.13	.20	.31	.42	.53	.65	.79	.95	1.18	1.54	1.88
Mar	.97	.90	.88	1986	11	2.45	1995	.14+	1997	7.3	3.2	.4	.0	.21	.30	.44	.57	.69	.83	.99	1.17	1.42	1.81	2.18
Apr	.74	.66	.66	1965	22	1.90	1981	.00+	1987	5.5	2.5	.1	.0	.00	.22	.37	.48	.58	.68	.79	.91	1.07	1.32	1.55
May	1.50	1.18	1.40	1962	15	4.79	1971	.00	1974	8.4	4.5	.5	.1	.10	.25	.48	.70	.94	1.19	1.49	1.86	2.35	3.16	3.94
Jun	1.01	.92	1.12	1968	6	3.22	1997	.00+	2000	5.4	2.8	.4	.0	.00	.00	.23	.40	.58	.77	1.00	1.28	1.64	2.26	2.85
Jul	.62	.61	1.12	1996	29	3.03	1984	.00+	1999	4.0	1.7	.2	@	.00	.04	.13	.23	.33	.45	.59	.76	1.00	1.41	1.82
Aug	.45	.27	.98	1968	20	1.63	1979	.00	1985	4.1	1.6	@	.0	.01	.04	.10	.17	.24	.32	.43	.55	.73	1.03	1.33
Sep	.76	.35	1.35	1978	6	2.68	1978	.00+	1999	4.2	2.1	.3	.1	.00	.03	.11	.22	.34	.49	.68	.91	1.25	1.83	2.41
Oct	.69	.61	.74	1975	26	2.01	1974	.00+	1988	4.2	2.4	.2	@	.00	.07	.19	.30	.42	.54	.69	.86	1.11	1.50	1.89
Nov	1.11	1.17	1.09	2001	22	2.58	1988	.13	1993	6.1	3.6	.3	@	.20	.30	.46	.61	.77	.93	1.12	1.36	1.66	2.16	2.63
Dec	.96	.56	1.06	1996	22	4.76	1983	.00	1976	5.3	2.9	.4	@	.01	.03	.12	.24	.38	.57	.81	1.13	1.59	2.41	3.26
Ann	10.77	10.26	1.40	May 1962	15	4.79	May 1971	.00+	Jun 2000	66.6	33.5	3.3	.2	6.97	7.68	8.60	9.31	9.95	10.57	11.21	11.94	12.82	14.11	15.24

+ 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: 1952-2001

(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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Station: GIBBS RANCH, NV

COOP ID: 263114

Climate Division: NV 2

NWS Call Sign:

Elevation: 6,000 Feet

Lat: 41°34N

Lon: 115°13W

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	2.4	-99.9	2	#	8.0	1996	17	12.0	1989	20	1989	16	16	1989	2.2	1.8	.7	.2	.0	-9.9	-9.9	-9.9	-9.9
Feb	2.1	1.3	3	0	7.0	1986	13	7.0	1986	20	1983	7	20	1983	1.1	.8	.4	.1	.0	-9.9	-9.9	-9.9	-9.9
Mar	2.4	1.5	#	0	5.0	1984	26	6.3	1987	14	1989	5	3	1989	1.3	1.1	.3	.1	.0	.6	.0	.0	.0
Apr	.9	.0	#	0	5.0	1981	2	5.0	1981	1	1986	24	#	1986	.2	.2	.1	.1	.0	.0	.0	.0	.0
May	.1	.0	#	0	2.0	1979	10	2.0	1979	4	1998	13	#+	1999	.1	.1	.0	.0	.0	.0	.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	.1	.0	#	0	2.0	1978	19	2.0	1978	#	1978	19	#	1978	@	@	.0	.0	.0	.0	.0	.0	.0
Oct	.2	.0	#	0	2.5	1981	12	2.5	1981	#	1997	8	#	1997	.1	.1	.0	.0	.0	.0	.0	.0	.0
Nov	1.6	.0	#	0	5.0	1990	20	5.0	1990	12	1983	20	7	1988	.6	.6	.2	.1	.0	.4	.0	.0	.0
Dec	.4	-99.9	1	0	2.0	1980	5	2.0	1980	14	1985	30	14	1985	.5	.5	.0	.0	.0	.0	.0	.0	.0
Ann	10.2	-9.9	N/A	N/A	8.0	Jan 1996	17	12.0	Jan 1989	20+	Jan 1989	16	20	Feb 1983	6.1	5.2	1.7	.6	.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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NWS Call Sign:

Elevation: 6,000 Feet

Lat: 41°34N

Lon: 115°13W

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	7/24	7/19	7/15	7/11	7/08	7/05	7/01	6/27	6/22
32	7/11	7/06	7/02	6/29	6/25	6/22	6/19	6/15	6/10
28	6/30	6/22	6/17	6/12	6/08	6/03	5/30	5/24	5/17
24	6/15	6/07	6/02	5/28	5/23	5/19	5/14	5/08	4/30
20	5/29	5/23	5/18	5/14	5/11	5/07	5/03	4/29	4/22
16	5/14	5/07	5/02	4/28	4/24	4/20	4/16	4/11	4/05
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	7/31	8/06	8/11	8/14	8/18	8/21	8/25	8/29	9/04
32	8/13	8/19	8/24	8/28	8/31	9/04	9/08	9/12	9/18
28	8/25	8/30	9/03	9/06	9/09	9/12	9/15	9/19	9/24
24	9/05	9/11	9/15	9/19	9/23	9/26	9/30	10/04	10/10
20	9/19	9/25	9/28	10/02	10/05	10/08	10/11	10/15	10/21
16	9/27	10/03	10/08	10/12	10/15	10/19	10/22	10/27	11/02
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	63	55	49	44	40	35	30	25	17
32	88	80	75	70	66	62	57	52	44
28	121	112	104	98	93	87	81	74	64
24	151	141	134	127	122	116	110	102	92
20	169	161	156	151	147	142	137	132	124
16	204	193	186	179	173	167	161	153	143

* 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: 6,000 Feet Lat: 41°34N Lon: 115°13W

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	1328	1071	964	723	500	245	84	92	287	633	1001	1281	8209
60	1173	931	809	573	350	135	26	26	163	479	851	1126	6642
57	1080	847	716	484	266	86	11	9	105	388	761	1033	5786
55	1018	791	654	427	215	59	5	3	74	330	701	971	5248
50	863	651	499	290	112	18	0	0	24	201	552	816	4026
32	349	209	77	19	0	0	0	0	0	6	125	301	1086

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	44	62	137	286	523	762	1026	982	710	396	115	43	5086
55	0	0	0	4	25	132	318	272	94	7	0	0	852
57	0	0	0	1	14	98	262	216	65	3	0	0	659
60	0	0	0	0	5	58	184	140	33	1	0	0	421
65	0	0	0	0	0	18	87	51	7	0	0	0	163
70	0	0	0	0	0	3	26	10	0	0	0	0	39

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	0	1	18	100	295	536	781	741	468	189	21	0	0	1	19	119	414	950	1731	2472	2940	3129	3150	3150
45	0	0	0	44	173	388	626	586	324	92	1	0	0	0	0	44	217	605	1231	1817	2141	2233	2234	2234
50	0	0	0	12	81	253	471	431	196	33	0	0	0	0	0	12	93	346	817	1248	1444	1477	1477	1477
55	0	0	0	1	26	136	317	279	94	5	0	0	0	0	0	1	27	163	480	759	853	858	858	858
60	0	0	0	0	4	55	177	143	27	0	0	0	0	0	0	0	4	59	236	379	406	406	406	406
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	6	35	116	238	383	530	517	377	218	41	0	0	6	41	157	395	778	1308	1825	2202	2420	2461	2461

(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