U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Service

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: GARDEN VALLEY, ID **COOP ID: 103448**

Climate Division: ID 4 **NWS Call Sign:** **Elevation: 3,100 Feet** **Lat: 44˚06N** **Lon: 115˚58W**

Temperature (˚F)

Month	Mean (1)			Extremes										Degree Days (1) Base Temp 65		Mean Number of Days (3)					
	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	34.3	17.4	25.9	54	1976	28	32.3	1981	-25	1949	25	15.8	1979	1214	0	.0	.0	.2	10.3	29.5	3.8
Feb	41.4	20.3	30.9	67	1992	28	37.9	1991	-22+	1950	3	20.9	1989	957	0	.0	.0	3.8	2.5	26.7	1.5
Mar	51.2	26.3	38.8	79	1966	30	45.3	1992	-7	1955	5	32.0	1976	814	0	.0	.0	18.6	.1	25.4	.1
Apr	61.0	31.4	46.2	90	1987	27	51.8	1987	2	1964	17	39.6	1982	564	0	.0	@	27.0	.0	17.9	.0
May	70.3	37.4	53.9	99+	1987	7	58.9	1992	17	1982	5	50.4	1982	348	2	.0	.6	30.7	.0	7.7	.0
Jun	79.2	43.4	61.3	106	1961	20	66.3	1988	21	1966	5	56.3	1991	150	38	.4	5.1	30.0	.0	1.5	.0
Jul	88.4	47.0	67.7	109+	1960	20	72.3	1975	28	1966	4	59.8	1993	55	139	2.0	17.3	31.0	.0	.1	.0
Aug	88.3	45.2	66.8	110+	1961	4	73.5	1971	26	1992	25	62.1	1980	65	119	1.9	17.4	31.0	.0	.5	.0
Sep	78.1	37.8	58.0	108	1950	3	65.4	1998	18	1965	18	51.5	1985	238	27	.1	4.9	29.9	.0	6.9	.0
Oct	64.7	30.3	47.5	92+	1992	2	53.1	1988	12+	1991	30	42.6	1985	544	0	.0	.1	29.0	.0	19.6	.0
Nov	43.8	25.0	34.4	77	1980	5	39.6	1999	-13	1985	23	27.8	1985	919	0	.0	.0	8.0	1.8	24.8	.4
Dec	33.6	18.1	25.9	57	1995	12	31.7	1977	-22	1964	17	16.6	1985	1215	0	.0	.0	.2	10.7	29.8	2.8
Ann	61.2	31.6	46.4	110+	Aug 1961	4	73.5	Aug 1971	-25	Jan 1949	25	15.8	Jan 1979	7083	325	4.4	45.4	239.4	25.4	190.4	8.6

\+ 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

(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

Issue Date: February 2004

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Precipitation (inches)

Precipitation Totals

Month	Means/ Medians(1) Mean	Means/ Medians(1) Median	Extremes Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year
Jan	3.82	3.68	2.83	1984	4	7.81	1997	.29	1985
Feb	2.77	2.73	3.36	1982	16	6.68	1999	.67	1977
Mar	2.45	2.22	1.80	1950	17	5.24	1974	.20	1994
Apr	1.77	1.51	1.40	1981	20	4.45	1993	.31	1977
May	1.74	1.28	1.57	1998	26	6.86	1998	.03	1992
Jun	1.40	1.17	1.47	1969	24	3.24	1993	.20	1994
Jul	.64	.49	.95	1982	8	2.30	1982	.00+	2000
Aug	.49	.31	1.08	1984	31	2.34	1976	.00+	2000
Sep	1.18	.73	1.63	1982	18	4.53	1986	.00+	1999
Oct	1.46	1.54	1.63	1991	26	3.46	1979	.00+	1988
Nov	3.44	3.35	2.16	1999	25	7.07	1973	.00	1976
Dec	3.87	3.62	2.40	1964	22	15.73	1996	.39	1976
Ann	25.03	24.11	3.36	Feb 1982	16	15.73	Dec 1996	.00+	Aug 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	11.5	8.4	2.4	.7
Feb	10.2	7.3	1.7	.1
Mar	10.1	6.5	1.4	.3
Apr	8.8	5.6	1.0	.3
May	9.5	4.8	.9	.2
Jun	7.7	3.8	.7	.1
Jul	3.8	1.7	.3	.0
Aug	3.3	1.5	.2	@
Sep	5.3	3.1	.8	.1
Oct	6.0	3.4	.9	.1
Nov	11.1	7.6	1.5	.3
Dec	10.8	8.1	2.4	.6
Ann	98.1	61.8	14.2	2.8

Precipitation Probabilities (1)

Probability that the monthly/annual precipitation will be equal to or less than the indicated amount

Monthly/Annual Precipitation vs Probability Levels
These values were determined from the incomplete gamma distribution

Month	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	.94	1.30	1.85	2.35	2.84	3.35	3.93	4.62	5.51	6.94	8.27
Feb	.69	.95	1.36	1.71	2.07	2.44	2.85	3.35	3.99	5.01	5.97
Mar	.53	.76	1.12	1.45	1.77	2.12	2.51	2.98	3.59	4.58	5.51
Apr	.35	.51	.77	1.01	1.25	1.51	1.80	2.15	2.62	3.37	4.08
May	.22	.36	.60	.85	1.10	1.39	1.72	2.12	2.67	3.58	4.46
Jun	.28	.41	.61	.80	.99	1.20	1.43	1.70	2.07	2.65	3.21
Jul	.00	.00	.13	.23	.35	.47	.62	.80	1.05	1.47	1.87
Aug	.00	.01	.06	.12	.20	.30	.42	.58	.81	1.22	1.64
Sep	.00	.00	.09	.31	.54	.80	1.11	1.49	2.02	2.88	3.78
Oct	.00	.00	.49	.75	.99	1.24	1.53	1.87	2.30	3.00	3.67
Nov	.65	1.12	1.70	2.17	2.63	3.09	3.61	4.22	5.00	6.23	7.38
Dec	.65	.98	1.55	2.08	2.63	3.22	3.90	4.72	5.83	7.61	9.32
Ann	14.92	16.75	19.16	21.03	22.73	24.40	26.15	28.12	30.53	34.11	37.25

\+ 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:
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Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	15.6	16.0	12	11
Feb	8.7	6.0	10	10
Mar	3.4	1.5	3	2
Apr	.1	.0	#	0
May	#	.0	#	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	#	.0	0	0
Oct	.2	.0	#	0
Nov	6.2	3.0	1	#
Dec	17.5	15.0	6	5
Ann	51.7	41.5	N/A	N/A

Extremes (2)

Month	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year
Jan	10.5	2000	4	31.0	1975	35	1996	29	26	1993
Feb	14.0	1986	13	27.0	1993	30	1996	2	19+	1993
Mar	6.0	1985	27	12.0	1975	19	1993	2	15	1976
Apr	1.0	1975	7	1.0+	1993	#+	1998	14	#+	1998
May	#	1978	16	#	1978	#	1999	10	#	1999
Jun	.0	0	0	.0	0	0	0	0	0	0
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	#	1986	27	#	1986	0	0	0	0	0
Oct	4.0	1991	26	5.0	1991	#	1996	24	#	1996
Nov	7.5	1974	23	34.0	1994	15	1994	29	7	1979
Dec	12.5	1987	9	54.2	1992	36	1971	15	20	1971
Ann	14.0	Feb 1986	13	54.2	Dec 1992	36	Dec 1971	15	26	Jan 1993

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	6.2	5.6	2.2	.8	.1
Feb	3.8	3.6	1.0	.3	.1
Mar	1.1	1.1	.4	.1	.0
Apr	.1	.1	.0	.0	.0
May	.0	.0	.0	.0	.0
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.0	.0	.0	.0	.0
Oct	.1	.1	@	.0	.0
Nov	2.6	2.6	.9	.2	.0
Dec	5.9	5.5	2.6	1.3	.1
Ann	19.8	18.6	7.1	2.7	.3

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	-9.9	-9.9	-9.9	-9.9
Feb	21.6	19.4	16.4	8.7
Mar	8.5	5.7	4.1	1.0
Apr	.0	.0	.0	.0
May	.0	.0	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.0	.0	.0	.0
Nov	4.2	2.2	1.4	.5
Dec	16.1	11.9	10.3	6.9
Ann	-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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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	7/20	7/13	7/08	7/03	6/29	6/25	6/21	6/16	6/09
32	7/01	6/23	6/17	6/12	6/07	6/03	5/29	5/23	5/14
28	6/10	6/01	5/26	5/20	5/15	5/10	5/05	4/28	4/20
24	5/13	5/06	5/01	4/26	4/22	4/18	4/13	4/08	4/01
20	4/18	4/11	4/06	4/01	3/28	3/24	3/19	3/14	3/07
16	4/02	3/24	3/19	3/14	3/09	3/04	2/28	2/22	2/14

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	8/04	8/11	8/15	8/19	8/23	8/26	8/30	9/04	9/10
32	8/20	8/26	8/31	9/04	9/07	9/11	9/14	9/19	9/25
28	9/07	9/12	9/15	9/18	9/21	9/23	9/26	9/29	10/04
24	9/14	9/21	9/26	9/30	10/04	10/08	10/12	10/17	10/24
20	10/02	10/08	10/12	10/16	10/19	10/23	10/27	10/31	11/06
16	10/19	10/27	11/01	11/06	11/11	11/15	11/20	11/25	12/03

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	85	74	66	60	54	47	41	33	23
32	121	111	103	97	91	85	78	71	60
28	160	149	141	134	128	121	114	106	95
24	196	185	178	171	164	158	151	143	132
20	232	223	216	210	205	199	193	186	177
16	278	267	259	252	246	240	233	225	214

***** 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)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	1214	957	814	564	348	150	55	65	238	544	919	1215	7083
60	1059	817	659	416	208	64	15	20	134	391	769	1060	5612
57	966	733	566	331	138	32	7	9	87	303	679	967	4818
55	904	677	504	277	100	18	2	3	61	248	619	905	4318
50	749	537	356	160	35	2	0	0	20	130	470	750	3209
32	241	132	27	2	0	0	0	0	0	0	72	243	717

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	50	99	236	428	677	878	1107	1077	778	480	143	52	6005
55	0	0	0	13	64	206	396	368	150	14	0	0	1211
57	0	0	0	7	40	160	339	311	115	7	0	0	979
60	0	0	0	2	17	103	255	229	73	2	0	0	681
65	0	0	0	0	2	38	139	119	27	0	0	0	325
70	0	0	0	0	0	9	61	47	7	0	0	0	124

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	4	62	218	453	664	883	860	562	264	30	1	0	4	66	284	737	1401	2284	3144	3706	3970	4000	4001
45	0	0	10	109	304	514	728	705	416	142	6	0	0	0	10	119	423	937	1665	2370	2786	2928	2934	2934
50	0	0	0	41	181	367	573	550	277	61	0	0	0	0	0	41	222	589	1162	1712	1989	2050	2050	2050
55	0	0	0	12	82	230	418	395	155	18	0	0	0	0	0	12	94	324	742	1137	1292	1310	1310	1310
60	0	0	0	1	27	119	276	248	67	2	0	0	0	0	0	1	28	147	423	671	738	740	740	740
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	10	70	190	334	450	556	550	428	252	22	0	0	10	80	270	604	1054	1610	2160	2588	2840	2862	2862

(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.
Compete 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