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: GERLACH, NV **COOP ID: 263090**

Climate Division: NV 1 **NWS Call Sign:** **Elevation: 3,950 Feet** **Lat: 40˚39N** **Lon: 119˚21W**

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	39.8	21.8	30.8	67	1971	18	38.6	1986	-22	1949	24	21.9	1993	1060	0	.0	.0	4.7	5.4	27.7	.6
Feb	46.6	26.3	36.5	68+	1963	4	43.1	1995	-13+	1989	7	24.9	1989	799	0	.0	.0	11.4	1.9	23.0	.3
Mar	55.1	31.4	43.3	83	1966	30	48.7	1986	6	1971	1	38.6	1985	675	0	.0	.0	23.2	.1	19.2	.0
Apr	63.1	36.4	49.8	87	1966	1	55.3	1990	14	1972	13	42.5	1975	460	3	.0	.0	27.2	.0	9.4	.0
May	71.6	44.5	58.1	97	2001	24	64.9	1992	24	1950	7	51.3	1998	247	30	.0	.8	30.6	.0	1.1	.0
Jun	81.1	52.1	66.6	104	1950	30	71.1	1977	32+	1971	2	61.3	1993	69	118	.1	5.4	30.0	.0	.1	.0
Jul	89.4	58.4	73.9	108	2001	4	77.9	1994	37	1987	19	68.2	1993	7	284	.6	16.3	31.0	.0	.0	.0
Aug	88.5	56.5	72.5	105	1949	3	76.4	1971	32	1968	22	67.2	1976	6	238	.6	14.4	31.0	.0	.0	.0
Sep	79.2	47.7	63.5	106	1949	2	67.3	1974	25+	1950	30	56.7	1986	112	66	.0	2.6	30.0	.0	.4	.0
Oct	67.1	36.7	51.9	97	1963	2	57.2	1988	13	1972	31	46.5	1984	409	2	.0	.0	29.1	.0	11.1	.0
Nov	50.6	27.0	38.8	75	1967	1	44.2	1995	-2	1985	14	28.5	1985	786	0	.0	.0	16.6	.6	23.5	.1
Dec	40.3	19.8	30.1	64	1995	1	36.4	1995	-30	1972	9	21.3	1990	1083	0	.0	.0	4.8	4.7	28.4	.8
Ann	64.4	38.2	51.3	108	Jul 2001	4	77.9	Jul 1994	-30	Dec 1972	9	21.3	Dec 1990	5713	741	1.3	39.5	269.6	12.7	143.9	1.8

\+ 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/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	.72	.40	1.30	1995	11	2.77	1997	.06+	1992
Feb	.73	.67	.67	1986	19	2.11	1986	.19	1988
Mar	.76	.72	.83	1991	4	1.95	1991	.00	1972
Apr	.81	.83	1.02	1996	2	1.93	1990	.02	1989
May	.94	.56	2.20	1995	6	3.09	1998	.05	1992
Jun	.71	.47	1.32	1971	26	2.44	1993	.00+	1986
Jul	.33	.22	.86	1990	19	2.41	1990	.00+	1999
Aug	.40	.26	.80	1988	5	2.07	1976	.00+	1995
Sep	.41	.31	.75	1986	27	2.05	1998	.00+	1992
Oct	.35	.31	.89	1962	13	.76	1971	.00+	1995
Nov	.93	.65	2.05	1985	24	4.15	1985	.09	1986
Dec	.81	.74	1.02	1969	24	2.51	1996	.00+	1989
Ann	7.90	7.32	2.20	May 1995	6	4.15	Nov 1985	.00+	Jul 1999

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	6.3	2.8	.2	.1
Feb	7.2	2.6	@	.0
Mar	7.0	2.4	.1	@
Apr	6.0	1.8	.3	@
May	6.2	2.6	.4	@
Jun	4.0	1.7	.3	@
Jul	2.2	1.1	.2	.0
Aug	2.4	1.0	.1	.0
Sep	2.5	1.0	.1	.0
Oct	4.1	1.9	.2	.0
Nov	6.0	1.9	.2	@
Dec	6.4	2.5	.1	.0
Ann	60.3	23.3	2.2	.1

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	.03	.07	.15	.25	.36	.49	.65	.86	1.16	1.66	2.18
Feb	.21	.28	.39	.48	.57	.66	.76	.88	1.03	1.28	1.50
Mar	.18	.29	.41	.51	.61	.70	.80	.92	1.08	1.32	1.54
Apr	.09	.15	.26	.37	.49	.63	.79	.99	1.26	1.70	2.14
May	.06	.12	.23	.36	.51	.68	.88	1.14	1.50	2.12	2.73
Jun	.00	.06	.18	.29	.41	.54	.70	.88	1.14	1.57	2.00
Jul	.00	.00	.02	.07	.13	.21	.30	.41	.57	.84	1.12
Aug	.00	.00	.05	.11	.17	.26	.36	.49	.67	.99	1.30
Sep	.00	.00	.07	.13	.20	.29	.38	.51	.68	.97	1.25
Oct	.00	.00	.09	.15	.21	.28	.35	.44	.56	.75	.94
Nov	.11	.18	.32	.45	.58	.74	.92	1.14	1.44	1.93	2.42
Dec	.00	.09	.24	.37	.50	.64	.81	1.01	1.28	1.73	2.16
Ann	4.47	5.08	5.89	6.52	7.10	7.67	8.27	8.95	9.78	11.02	12.12

\+ 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	4.2	3.0	1	#
Feb	.8	.5	#	0
Mar	.9	.0	#	0
Apr	.1	.0	#	0
May	#	.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
Nov	1.2	.0	#	0
Dec	2.4	2.0	#	#
Ann	9.6	5.5	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	12.0	1997	23	16.5	1997	9	1997	25	5	1993
Feb	7.0	1990	19	7.0	1990	15	1990	19	2	1993
Mar	3.0	1997	2	5.5	1996	#+	1999	29	#+	1999
Apr	.5	1999	3	.8	1999	#	1996	19	#	1996
May	#	1993	4	#	1993	0	0	0	0	0
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	.0	0	0	.0	0	0	0	0	0	0
Oct	#	1996	20	#+	1996	#	1996	20	#	1996
Nov	4.0	1988	25	4.0+	1998	4	1996	17	#+	2000
Dec	6.0	1996	22	8.5	1988	6	1998	5	3	1998
Ann	12.0	Jan 1997	23	16.5	Jan 1997	15	Feb 1990	19	5	Jan 1993

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	1.5	1.1	.4	.1	.1
Feb	1.1	.7	.1	.1	.0
Mar	.6	.4	.1	.0	.0
Apr	.2	.0	.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	.0	.0	.0	.0	.0
Nov	.6	.6	.1	.0	.0
Dec	1.6	1.5	.4	.1	.0
Ann	5.6	4.3	1.1	.3	.1

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	-9.9	-9.9	-9.9	-9.9
Feb	.0	.0	.0	.0
Mar	.0	.0	.0	.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	.2	.2	.0	.0
Dec	-9.9	-9.9	-9.9	-9.9
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	6/11	6/04	5/30	5/26	5/22	5/18	5/13	5/08	5/01
32	5/20	5/14	5/09	5/05	5/02	4/28	4/25	4/20	4/14
28	5/06	5/01	4/27	4/24	4/21	4/18	4/15	4/11	4/06
24	4/21	4/13	4/07	4/02	3/28	3/24	3/19	3/13	3/04
20	4/01	3/23	3/16	3/11	3/06	2/28	2/23	2/16	2/07
16	3/18	3/05	2/23	2/15	2/07	1/30	1/22	1/12	12/30

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	9/15	9/20	9/24	9/27	9/29	10/02	10/05	10/09	10/13
32	9/25	9/30	10/03	10/06	10/08	10/11	10/14	10/17	10/22
28	10/02	10/08	10/11	10/15	10/18	10/21	10/24	10/28	11/02
24	10/10	10/15	10/18	10/21	10/24	10/27	10/30	11/02	11/07
20	10/20	10/26	10/30	11/03	11/06	11/09	11/13	11/17	11/23
16	10/25	11/02	11/08	11/13	11/17	11/22	11/27	12/02	12/10

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	158	148	141	135	130	124	118	111	102
32	183	175	169	164	159	154	149	143	134
28	203	195	189	184	179	174	169	164	155
24	239	229	221	215	209	203	196	189	179
20	278	267	259	251	245	238	231	223	211
16	333	316	303	292	283	273	262	250	232

***** 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	1060	799	675	460	247	69	7	6	112	409	786	1083	5713
60	905	659	520	320	143	23	0	0	45	266	636	928	4445
57	812	575	427	244	95	10	0	0	22	192	547	835	3759
55	750	519	367	198	69	5	0	0	12	149	489	773	3331
50	602	390	229	107	25	0	0	0	2	68	351	618	2392
32	172	65	5	0	0	0	0	0	0	0	43	166	451

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	136	190	354	533	807	1038	1300	1255	944	616	247	106	7526
55	0	0	3	41	163	354	587	542	266	52	3	0	2011
57	0	0	1	27	127	298	525	480	216	33	1	0	1708
60	0	0	0	13	81	222	432	388	149	14	0	0	1299
65	0	0	0	3	30	118	284	238	66	2	0	0	741
70	0	0	0	0	9	48	155	114	20	0	0	0	346

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	16	47	145	295	558	790	1046	1000	703	360	78	12	16	63	208	503	1061	1851	2897	3897	4600	4960	5038	5050
45	3	6	61	177	407	640	891	845	553	223	24	1	3	9	70	247	654	1294	2185	3030	3583	3806	3830	3831
50	0	0	14	86	264	492	736	690	406	119	1	0	0	0	14	100	364	856	1592	2282	2688	2807	2808	2808
55	0	0	0	36	150	350	581	535	271	50	0	0	0	0	0	36	186	536	1117	1652	1923	1973	1973	1973
60	0	0	0	7	72	220	428	381	153	13	0	0	0	0	0	7	79	299	727	1108	1261	1274	1274	1274
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	5	33	108	208	350	497	669	636	453	276	69	10	5	38	146	354	704	1201	1870	2506	2959	3235	3304	3314

(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