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: IMLAY, NV **COOP ID: 263957**

Climate Division: NV 1 **NWS Call Sign:** **Elevation: 4,260 Feet** **Lat: 40˚39N** **Lon: 118˚10W**

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	42.6	17.9	30.3	70	1965	30	38.3	1986	-26	1949	26	21.1	1993	1079	0	.0	.0	7.6	4.5	28.0	1.2
Feb	49.9	23.5	36.7	74	1986	28	43.4	1995	-19	1989	7	27.9	1989	793	0	.0	.0	15.5	1.1	24.3	.2
Mar	57.0	27.5	42.3	81+	1966	30	48.7	1978	-5	1951	3	37.5	1977	706	0	.0	.0	24.9	.1	21.5	.0
Apr	63.9	31.7	47.8	87+	1987	28	54.3	1992	10	1955	4	40.1	1975	517	1	.0	@	28.0	@	12.7	.0
May	72.5	39.9	56.2	98	1986	29	65.7	1992	17	1953	2	49.1	1977	300	26	.0	1.3	30.8	.0	2.7	.0
Jun	82.6	48.3	65.5	108	1959	23	71.3	1977	28+	1954	6	60.6	1995	99	112	.4	8.5	29.9	.0	.1	.0
Jul	91.6	55.1	73.4	112	1959	17	78.7	1994	34	1949	4	67.4	1993	8	267	3.0	20.7	31.0	.0	.0	.0
Aug	90.5	52.5	71.5	106+	1954	7	76.2	1971	29	1960	22	65.5	1976	19	220	2.0	19.0	31.0	.0	.0	.0
Sep	80.7	43.2	62.0	104	1955	5	67.1	1981	16	1958	24	55.4	1985	148	57	.1	5.5	30.0	.0	1.3	.0
Oct	68.5	32.0	50.3	98	1963	2	56.1	1988	10+	1970	27	43.0	1984	460	2	.0	.3	29.3	.0	13.9	.0
Nov	52.6	23.1	37.9	76+	1949	2	44.4	1995	-3	1993	25	31.7	1985	814	0	.0	.0	18.4	.4	24.5	.1
Dec	43.4	16.8	30.1	75	1964	1	38.6	1977	-32	1990	22	19.0	1990	1083	0	.0	.0	9.0	3.4	28.1	1.2
Ann	66.3	34.3	50.3	112	Jul 1959	17	78.7	Jul 1994	-32	Dec 1990	22	19.0	Dec 1990	6026	685	5.5	55.3	285.4	9.5	157.1	2.7

\+ 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	.70	.58	.80	1998	11	2.22	1993	.00+	1989
Feb	.75	.64	.69	1962	20	1.68	1998	.05	1989
Mar	.99	.93	.82	1998	28	3.63	1998	.00+	1977
Apr	.86	.67	1.35	1978	26	3.24	1978	.00+	1985
May	1.08	1.02	1.17	1987	25	2.97	1998	.00+	1976
Jun	.74	.61	1.42	1970	29	2.60	1997	.00+	2000
Jul	.26	.10	1.50	1979	22	2.10	1976	.00+	2000
Aug	.36	.10	1.15	1979	13	2.12+	1983	.00+	1998
Sep	.50	.33	1.00	1978	6	1.86	1998	.00+	1999
Oct	.59	.39	1.50	1951	24	1.90	1975	.00+	1995
Nov	.75	.78	1.05	1994	6	2.52	1985	.00+	1976
Dec	.74	.62	1.05	1969	24	2.51	1996	.00+	1999
Ann	8.32+	7.57+	1.50+	Jul 1979	22	3.63	Mar 1998	.00+	Jul 2000

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	6.1	3.1	.1	.0
Feb	6.3	2.6	.1	.0
Mar	7.3	3.6	.2	.0
Apr	5.0	2.6	.2	@
May	5.0	3.1	.5	@
Jun	3.6	2.2	.3	.0
Jul	1.1	.7	.1	@
Aug	2.3	1.0	.2	@
Sep	2.7	1.4	.2	@
Oct	3.3	1.9	.2	.0
Nov	4.7	2.8	.2	@
Dec	5.3	2.9	.2	.0
Ann	52.7	27.9	2.5	.0

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	.00	.06	.18	.29	.41	.54	.69	.87	1.12	1.53	1.94
Feb	.14	.21	.32	.42	.52	.64	.76	.92	1.12	1.46	1.77
Mar	.00	.07	.22	.38	.54	.73	.95	1.23	1.61	2.25	2.87
Apr	.00	.00	.25	.41	.55	.70	.88	1.09	1.36	1.80	2.23
May	.00	.00	.27	.46	.64	.85	1.08	1.37	1.75	2.38	2.99
Jun	.00	.00	.00	.00	.34	.55	.76	1.01	1.33	1.83	2.30
Jul	.00	.00	.00	.00	.00	.07	.16	.29	.47	.80	1.13
Aug	.00	.00	.00	.00	.01	.08	.20	.37	.62	1.08	1.56
Sep	.00	.00	.00	.11	.21	.32	.46	.63	.86	1.26	1.64
Oct	.00	.00	.00	.11	.24	.38	.55	.75	1.03	1.49	1.94
Nov	.00	.08	.21	.33	.45	.59	.75	.94	1.20	1.63	2.05
Dec	.00	.00	.12	.24	.37	.52	.70	.92	1.23	1.76	2.28
Ann	4.60	5.25	6.13	6.81	7.44	8.06	8.72	9.45	10.37	11.73	12.94

+ 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	3.4	2.0	1	#
Feb	.4	.0	#	#
Mar	.3	.0	#	0
Apr	.2	.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
Oct	.0	.0	#	0
Nov	.6	.0	#	0
Dec	.7	.0	#	#
Ann	5.6	2.0	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	7.0	1997	23	13.0	1997	10	1988	4	5	1988
Feb	5.5	1987	24	5.5	1987	6	1987	24	3	1989
Mar	4.5	1987	18	4.5	1987	#+	1999	8	#+	1999
Apr	3.0	1999	4	3.0	1999	2	1997	9	#+	1998
May	#	1975	4	#	1975	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	#	1986	26	#	1986	0	0	0	0	0
Oct	.1	1991	28	.1+	1996	#	1996	20	#	1996
Nov	4.0	1977	21	4.0+	1982	1	1978	4	#+	1991
Dec	4.0	1977	23	4.0	1977	10	1996	22	2	1998
Ann	7.0	Jan 1997	23	13.0	Jan 1997	10+	Dec 1996	22	5	Jan 1988

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.5	.4	.3	.2	.0
Feb	.4	.2	.1	.1	.0
Mar	.4	.1	.1	.0	.0
Apr	.2	@	@	.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	.0	.0	.0	.0
Nov	.4	.2	.1	.0	.0
Dec	.3	.1	.1	.0	.0
Ann	2.3	1.0	.7	.3	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.7	.4	.1	.0
Feb	.2	.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	.1	.0	.0	.0
Dec	.0	.0	.0	.0
Ann	1.0	.4	.1	.0

+ 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	6/16	6/10	6/06	6/02	5/29	5/26	5/22	5/18	5/11
32	5/31	5/25	5/21	5/18	5/14	5/11	5/07	5/03	4/27
28	5/15	5/09	5/05	5/01	4/28	4/24	4/21	4/16	4/11
24	5/06	4/30	4/26	4/23	4/19	4/16	4/12	4/08	4/02
20	4/25	4/16	4/09	4/03	3/28	3/23	3/17	3/10	2/28
16	4/09	3/26	3/16	3/07	2/27	2/19	2/11	2/01	1/18

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	9/04	9/09	9/13	9/16	9/19	9/22	9/26	9/29	10/05
32	9/15	9/20	9/24	9/26	9/29	10/02	10/05	10/08	10/13
28	9/24	9/29	10/03	10/06	10/09	10/12	10/15	10/18	10/23
24	10/02	10/09	10/13	10/17	10/21	10/24	10/28	11/02	11/08
20	10/11	10/17	10/22	10/27	10/31	11/04	11/08	11/13	11/20
16	10/22	10/28	11/02	11/07	11/11	11/15	11/19	11/24	12/01

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	137	128	122	117	112	107	102	96	87
32	159	152	146	142	137	133	128	123	116
28	187	179	173	168	163	159	154	148	140
24	210	201	194	189	184	179	173	167	158
20	252	240	231	223	216	208	201	192	179
16	302	286	275	265	256	246	236	225	209

***** 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	1079	793	706	517	300	99	8	19	148	460	814	1083	6026
60	924	653	551	375	187	43	1	3	70	315	664	928	4714
57	831	569	459	295	134	22	0	1	39	236	574	835	3995
55	769	513	401	245	103	14	0	0	24	190	514	773	3546
50	623	381	262	143	45	4	0	0	6	95	371	621	2551
32	191	53	12	2	0	0	0	0	0	0	41	180	479

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	136	184	329	476	749	1003	1282	1224	899	565	217	120	7184
55	0	0	5	29	139	327	569	511	233	41	0	0	1854
57	0	0	2	19	108	276	507	449	188	26	0	0	1575
60	0	0	0	9	69	206	415	359	128	11	0	0	1197
65	0	0	0	1	26	112	267	220	57	2	0	0	685
70	0	0	0	0	8	48	140	110	18	0	0	0	324

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	21	58	146	286	551	806	1081	1015	699	372	90	24	21	79	225	511	1062	1868	2949	3964	4663	5035	5125	5149
45	4	15	61	163	398	656	926	860	550	237	32	4	4	19	80	243	641	1297	2223	3083	3633	3870	3902	3906
50	0	0	18	81	261	508	771	705	405	127	9	0	0	0	18	99	360	868	1639	2344	2749	2876	2885	2885
55	0	0	0	27	149	366	616	550	267	54	0	0	0	0	0	27	176	542	1158	1708	1975	2029	2029	2029
60	0	0	0	4	74	237	461	398	149	18	0	0	0	0	0	4	78	315	776	1174	1323	1341	1341	1341
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	21	58	133	223	364	510	673	633	463	304	93	24	21	79	212	435	799	1309	1982	2615	3078	3382	3475	3499

(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

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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