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: DENIO, NV **COOP ID: 262229**

Climate Division: NV 1 **NWS Call Sign:** **Elevation: 4,190 Feet** **Lat: 41˚59N** **Lon: 118˚38W**

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	40.0	22.2	31.1	65	1971	31	37.5	1998	-21	1979	1	22.4	1993	1052	0	.0	.0	4.5	5.2	26.9	1.4
Feb	46.1	25.8	36.0	76	1986	28	43.2	1995	-25	1985	4	24.7	1989	814	0	.0	.0	10.9	1.8	22.9	.4
Mar	52.9	29.2	41.1	78+	1960	25	46.4	1972	0+	1974	9	35.7	1976	743	0	.0	.0	21.4	.1	21.8	.1
Apr	60.8	33.3	47.1	90	1981	30	54.0	1987	11+	1959	8	39.1	1975	538	0	.0	@	26.9	.0	16.0	.0
May	69.4	39.6	54.5	97	1954	19	61.7	1992	14	1954	1	49.5	1991	334	8	.0	1.0	30.5	.0	6.8	.0
Jun	79.4	47.2	63.3	103	1954	22	68.6	1977	22	1952	13	58.0	1993	129	77	.4	6.7	29.9	.0	1.0	.0
Jul	89.4	53.4	71.4	107	1960	19	75.1	1985	29	1986	5	62.7	1993	19	217	2.5	19.1	31.0	.0	.1	.0
Aug	88.0	52.0	70.0	107	1981	8	74.7	1971	26	1960	28	64.5	1976	28	183	1.6	17.5	31.0	.0	.1	.0
Sep	78.8	43.3	61.1	103	1955	5	67.1	1979	17	1958	24	53.5	1985	164	44	.0	4.4	29.9	.0	4.0	.0
Oct	66.1	35.2	50.7	92	1980	3	56.2	1988	6	1971	29	46.4	1984	447	1	.0	.1	28.8	@	14.1	.0
Nov	49.5	28.1	38.8	75	1980	4	46.3	1995	-4+	1978	10	31.4	1985	786	0	.0	.0	15.2	.7	22.0	.2
Dec	40.7	21.8	31.3	64	1958	7	38.1	1981	-25	1972	10	21.8	1990	1046	0	.0	.0	5.6	4.5	27.6	1.2
Ann	63.4	35.9	49.7	107+	Aug 1981	8	75.1	Jul 1985	-25+	Feb 1985	4	21.8	Dec 1990	6100	530	4.5	48.8	265.6	12.3	163.3	3.3

\+ 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: 1951-2001

(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	.94	.91	.92	1980	13	2.05	1996	.01	1992
Feb	.84	.84	1.08	1986	17	2.83	1986	.03	1995
Mar	1.15	.98	1.47	1986	8	2.41	1983	.15	1999
Apr	1.02	.89	1.10	1983	30	3.06	1978	.14	1972
May	1.13	.90	1.02	1989	10	3.62	1998	.00	1972
Jun	.86	.76	1.40	1975	25	2.61	1987	.00+	1990
Jul	.26	.20	.68	1967	17	1.17	1982	.00+	2000
Aug	.49	.16	1.20	1979	29	2.43	1993	.00+	2000
Sep	.55	.41	.94	1971	30	1.75	1971	.00+	1999
Oct	.64	.51	1.15	1962	11	1.75	1984	.00+	1999
Nov	1.06	.76	2.00	1973	7	4.54	1973	.10	1976
Dec	.88	.61	.96	1995	30	3.47	1983	.00+	1999
Ann	9.82	9.81	2.00	Nov 1973	7	4.54	Nov 1973	.00+	Aug 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	6.9	3.1	.3	.0
Feb	6.5	3.0	.2	@
Mar	9.0	4.0	.3	.1
Apr	6.9	3.1	.4	@
May	6.0	3.4	.3	@
Jun	4.4	2.6	.4	.1
Jul	2.0	1.0	.1	.0
Aug	2.6	1.4	.3	@
Sep	3.2	1.7	.3	.0
Oct	4.0	2.0	.2	.0
Nov	7.0	3.5	.4	@
Dec	6.6	3.3	.1	.0
Ann	65.1	32.1	3.3	.2

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	.10	.17	.30	.43	.57	.73	.92	1.15	1.47	2.00	2.52
Feb	.12	.19	.31	.42	.54	.68	.83	1.02	1.28	1.70	2.10
Mar	.29	.40	.57	.71	.86	1.01	1.18	1.38	1.65	2.07	2.46
Apr	.22	.31	.46	.60	.74	.88	1.05	1.24	1.50	1.92	2.31
May	.02	.08	.22	.38	.56	.77	1.03	1.37	1.85	2.66	3.47
Jun	.00	.00	.18	.33	.48	.65	.84	1.09	1.41	1.96	2.49
Jul	.00	.00	.00	.07	.13	.19	.26	.34	.45	.64	.82
Aug	.00	.00	.00	.01	.06	.16	.30	.51	.83	1.42	2.04
Sep	.00	.00	.06	.15	.25	.36	.50	.67	.92	1.33	1.74
Oct	.00	.00	.15	.26	.37	.49	.63	.81	1.04	1.43	1.81
Nov	.13	.22	.37	.52	.67	.85	1.05	1.30	1.63	2.18	2.72
Dec	.00	.08	.23	.37	.52	.68	.87	1.09	1.41	1.93	2.43
Ann	5.54	6.30	7.31	8.10	8.82	9.53	10.28	11.13	12.17	13.72	15.10

\+ 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: 1951-2001
(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	5.2	4.5	1	#
Feb	3.9	2.0	#	#
Mar	2.7	2.0	#	0
Apr	1.0	.0	#	0
May	.3	.0	#	0
Jun	.2	.0	0	0
Jul	.0	.0	#	0
Aug	.0	.0	0	0
Sep	#	.0	0	0
Oct	.5	.0	#	0
Nov	3.5	1.0	#	0
Dec	4.8	3.0	1	#
Ann	22.1	12.5	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	8.0	1989	9	16.5	1979	12	1993	7	12	1993
Feb	8.0	1985	2	17.0	1985	12	1985	5	3	1985
Mar	5.0	1982	17	11.5	1974	6	1974	8	1	1976
Apr	6.0	1999	5	14.5	1999	4	1975	5	#+	1998
May	3.0	1977	5	3.0	1977	#	1977	5	#	1977
Jun	6.0	1975	25	6.0	1975	0	0	0	0	0
Jul	.0	0	0	.0	0	#	1987	17	#	1987
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	#	1986	27	#	1986	0	0	0	0	0
Oct	7.0	1991	29	7.0	1991	5	1991	30	#+	1991
Nov	10.0	1979	26	19.5	1979	12	1979	26	2	1985
Dec	9.0	1983	3	16.0	1982	9	1983	3	5	1983
Ann	10.0	Nov 1979	26	19.5	Nov 1979	12+	Jan 1993	7	12	Jan 1993

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	2.3	1.6	.6	.1	.0
Feb	1.4	1.1	.5	.2	.0
Mar	1.3	1.0	.4	@	.0
Apr	.3	.2	.1	.1	.0
May	.1	.1	@	.0	.0
Jun	@	@	@	@	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.0	.0	.0	.0	.0
Oct	.3	.1	.1	@	.0
Nov	1.6	1.3	.5	.2	@
Dec	2.2	1.8	.8	.2	.0
Ann	9.5	7.2	3.0	.8	@

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	5.9	2.8	.1	.0
Feb	1.8	1.3	.4	.3
Mar	.1	.1	.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
Nov	1.2	.6	.3	.0
Dec	2.7	1.5	.1	.0
Ann	11.7	6.3	.9	.3

+ 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	7/09	7/03	6/29	6/25	6/22	6/18	6/14	6/10	6/04
32	6/28	6/21	6/16	6/11	6/07	6/03	5/30	5/25	5/18
28	6/01	5/26	5/22	5/19	5/15	5/12	5/09	5/05	4/29
24	5/19	5/13	5/09	5/05	5/02	4/28	4/24	4/20	4/14
20	5/08	4/29	4/23	4/18	4/13	4/09	4/03	3/28	3/20
16	4/28	4/16	4/08	4/01	3/25	3/19	3/12	3/03	2/20

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	8/19	8/24	8/28	8/31	9/03	9/06	9/09	9/12	9/18
32	8/31	9/05	9/08	9/12	9/14	9/17	9/20	9/24	9/29
28	9/13	9/19	9/23	9/26	9/30	10/03	10/06	10/11	10/16
24	9/24	9/30	10/04	10/08	10/11	10/15	10/18	10/23	10/29
20	10/03	10/09	10/14	10/17	10/21	10/24	10/28	11/01	11/07
16	10/16	10/23	10/29	11/02	11/06	11/11	11/15	11/21	11/28

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	97	89	83	77	72	67	62	56	47
32	124	115	109	104	98	93	88	81	72
28	158	151	145	141	136	132	127	122	114
24	187	179	172	167	162	157	152	146	137
20	222	211	203	196	189	183	176	168	157
16	269	254	243	234	225	217	207	196	181

***** 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	1052	814	743	538	334	129	19	28	164	447	786	1046	6100
60	897	674	588	397	203	58	3	6	78	300	636	891	4731
57	804	590	495	316	140	31	1	2	44	222	547	798	3990
55	742	534	434	266	105	19	0	0	27	176	490	736	3529
50	592	403	291	161	42	4	0	0	6	85	352	582	2518
32	160	68	14	5	0	0	0	0	0	0	43	142	432

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	132	178	294	456	697	938	1221	1179	870	578	247	120	6910
55	0	0	2	28	89	267	508	466	208	40	3	0	1611
57	0	0	1	18	62	219	446	405	164	25	1	0	1341
60	0	0	0	8	32	157	356	316	108	10	0	0	987
65	0	0	0	0	8	77	217	183	44	1	0	0	530
70	0	0	0	0	1	28	109	86	12	0	0	0	236

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	19	44	113	245	475	714	983	935	629	335	79	16	19	63	176	421	896	1610	2593	3528	4157	4492	4571	4587
45	0	10	45	134	326	564	828	780	480	207	27	2	0	10	55	189	515	1079	1907	2687	3167	3374	3401	3403
50	0	0	12	62	205	418	673	626	340	113	2	0	0	0	12	74	279	697	1370	1996	2336	2449	2451	2451
55	0	0	0	19	103	282	518	472	211	43	0	0	0	0	0	19	122	404	922	1394	1605	1648	1648	1648
60	0	0	0	1	44	161	366	324	106	13	0	0	0	0	0	1	45	206	572	896	1002	1015	1015	1015
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	7	37	98	201	342	466	609	588	440	276	68	13	7	44	142	343	685	1151	1760	2348	2788	3064	3132	3145

(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