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: CALIENTE, NV **COOP ID: 261358**

Climate Division: NV 3 **NWS Call Sign:** **Elevation: 4,400 Feet** **Lat: 37˚37N** **Lon: 114˚31W**

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	46.2	18.1	32.2	71	1943	15	39.6	1986	-31	1937	9	24.9	1979	1019	0	.0	.0	11.8	1.4	29.4	.9
Feb	52.9	23.1	38.0	81	1986	26	46.3	1995	-19	1989	6	31.1	1979	756	0	.0	.0	18.0	.8	25.1	.3
Mar	59.3	28.6	44.0	90	1971	30	49.7	1986	2	1958	9	39.0+	1991	653	0	.0	@	26.5	@	22.2	.0
Apr	67.4	34.3	50.9	92	1981	30	59.1	1989	15	1945	4	42.8	1975	433	8	.0	.1	28.6	.0	12.1	.0
May	77.1	42.3	59.7	103	2001	25	65.4	1997	24+	1967	1	54.6	1977	209	46	.0	2.7	30.9	.0	2.4	.0
Jun	88.3	50.1	69.2	109	1954	22	74.7	1994	33+	1932	7	64.5	1998	45	171	2.5	15.5	30.0	.0	.0	.0
Jul	94.7	56.8	75.8	109+	1985	5	79.9	1989	40+	1958	18	72.6	1978	2	335	7.2	25.8	31.0	.0	.0	.0
Aug	92.6	55.4	74.0	108	1940	12	78.6	1994	35	1978	25	68.6	1976	4	283	3.8	23.3	31.0	.0	.0	.0
Sep	84.4	46.4	65.4	106	1950	1	69.4	1995	25	1948	26	60.2	1978	74	87	.1	9.0	30.0	.0	.4	.0
Oct	72.7	35.2	54.0	95	2001	2	61.2	1988	10	1935	31	47.5	1982	355	12	.0	1.2	30.2	.0	10.2	.0
Nov	57.4	25.3	41.4	82	1999	1	47.5	1999	0+	1931	23	34.1	1994	710	0	.0	.0	23.0	@	25.9	.0
Dec	47.6	18.0	32.8	71	1995	1	40.2	2000	-18+	1990	22	24.2	1990	998	0	.0	.0	14.3	1.4	29.7	.7
Ann	70.1	36.1	53.1	109+	Jul 1985	5	79.9	Jul 1989	-31	Jan 1937	9	24.2	Dec 1990	5258	942	13.6	77.6	305.3	3.6	157.4	1.9

\+ 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/normals/usnormals.html

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1928-2001

(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	.95	.70	1.41	1992	6	3.47	1993	.00+	1988
Feb	1.05	.66	2.23	1998	24	3.98	1998	.00+	1974
Mar	1.37	1.11	1.35	1982	18	4.59	1992	.00+	1997
Apr	.71	.49	1.15+	1941	11	3.03	1978	.00+	1991
May	.74	.72	1.48	1947	11	2.27	1977	.00	1984
Jun	.37	.14	1.07	1993	6	1.52	1977	.00+	1996
Jul	.72	.44	1.51+	1976	31	5.36	1984	.00+	2000
Aug	1.05	.92	1.70	1942	9	3.35	1971	.00	1985
Sep	.78	.50	1.56	1966	19	3.12	1997	.00+	1993
Oct	.89	.72	2.13	1946	28	3.67	1974	.00+	1999
Nov	.80	.59	1.80	1960	6	3.38	1987	.00+	1995
Dec	.49	.37	2.11	1947	5	1.31	1984	.00+	1999
Ann	9.92	8.97	2.23	Feb 1998	24	5.36	Jul 1984	.00+	Jul 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	4.7	2.9	.4	@
Feb	4.8	2.6	.5	.1
Mar	6.0	3.8	.7	.1
Apr	3.9	2.0	.3	.0
May	4.3	2.3	.2	.1
Jun	2.1	1.0	.1	@
Jul	3.2	1.8	.3	.1
Aug	4.3	2.5	.6	.2
Sep	3.4	2.1	.5	.1
Oct	3.8	2.3	.5	.1
Nov	2.8	1.9	.7	@
Dec	3.2	1.8	.1	.0
Ann	46.5	27.0	4.9	.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	.00	.07	.23	.38	.53	.71	.92	1.17	1.53	2.11	2.69
Feb	.00	.05	.20	.36	.53	.73	.97	1.28	1.71	2.44	3.16
Mar	.00	.00	.20	.41	.65	.93	1.26	1.69	2.28	3.29	4.29
Apr	.00	.00	.09	.20	.32	.46	.64	.87	1.18	1.73	2.28
May	.03	.09	.20	.31	.43	.56	.72	.91	1.18	1.62	2.06
Jun	.00	.00	.00	.03	.09	.17	.28	.42	.63	1.01	1.40
Jul	.00	.02	.11	.20	.32	.46	.64	.86	1.19	1.74	2.30
Aug	.04	.12	.26	.41	.58	.77	1.00	1.29	1.68	2.35	3.00
Sep	.00	.00	.08	.19	.32	.48	.68	.94	1.31	1.95	2.59
Oct	.00	.02	.12	.24	.38	.56	.78	1.06	1.47	2.18	2.89
Nov	.00	.04	.14	.26	.39	.55	.74	.98	1.32	1.89	2.46
Dec	.00	.00	.08	.18	.27	.37	.48	.62	.81	1.11	1.42
Ann	5.64	6.39	7.40	8.19	8.91	9.62	10.37	11.20	12.24	13.78	15.15

\+ 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: 1928-2001
(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	2.9	2.6	1	0
Feb	1.3	.0	#	0
Mar	1.3	.0	#	0
Apr	#	.0	#	0
May	#	.0	#	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.1	.0	0	0
Oct	#	.0	0	0
Nov	.8	.0	#	0
Dec	1.3	.0	#	0
Ann	7.7	2.6	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	8.5	1997	14	8.5	1996	14	1997	14	6	1974
Feb	14.0	1989	4	14.0	1989	10	1989	6	3	1979
Mar	8.0	1987	22	9.5	1987	2+	2000	20	#	2000
Apr	#	1997	1	#	1997	1	1998	15	#	1998
May	#	1988	7	#	1988	0	0	0	#	2000
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	2.0	1971	30	2.0	1971	0	0	0	0	0
Oct	#	2000	30	#+	2000	#	1996	28	0	0
Nov	5.0	1985	12	12.0	1994	8	1994	18	1	1994
Dec	4.0	1976	31	5.5	1988	3+	1992	18	1	1971
Ann	14.0	Feb 1989	4	14.0	Feb 1989	14	Jan 1997	14	6	Jan 1974

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	1.1	.8	.6	.3	.0
Feb	.7	.6	.2	.1	@
Mar	.4	.4	.1	.1	.0
Apr	.0	.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	.3	.3	.2	.1	.0
Dec	.7	.6	.1	.0	.0
Ann	3.2	2.7	1.2	.6	@

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	3.9	2.7	2.0	.2
Feb	1.7	1.2	1.0	@
Mar	.2	.0	.0	.0
Apr	@	.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	.6	.4	.1	.0
Dec	.4	.1	.0	.0
Ann	6.8	4.4	3.1	.2

+ 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	6/08	6/02	5/28	5/24	5/20	5/17	5/13	5/08	5/02
32	5/25	5/18	5/13	5/09	5/05	5/01	4/27	4/22	4/15
28	5/15	5/07	5/01	4/26	4/22	4/17	4/12	4/07	3/30
24	4/28	4/19	4/12	4/06	4/01	3/26	3/21	3/14	3/04
20	4/04	3/27	3/21	3/16	3/11	3/06	3/01	2/23	2/15
16	3/20	3/09	3/01	2/22	2/16	2/10	2/03	1/26	1/15

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	9/13	9/18	9/21	9/24	9/27	9/30	10/04	10/07	10/12
32	9/26	10/01	10/05	10/08	10/12	10/15	10/18	10/22	10/27
28	10/06	10/12	10/15	10/19	10/22	10/25	10/28	11/01	11/07
24	10/16	10/21	10/25	10/28	10/31	11/03	11/06	11/10	11/15
20	10/27	11/01	11/04	11/07	11/10	11/12	11/15	11/19	11/23
16	11/07	11/12	11/16	11/19	11/22	11/25	11/29	12/03	12/08

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	155	146	140	134	129	124	119	113	104
32	187	177	170	164	159	153	147	141	131
28	213	203	195	189	182	176	170	162	152
24	245	234	226	219	213	206	199	191	180
20	269	260	254	248	243	238	232	226	217
16	316	303	294	286	279	271	263	254	241

***** 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	1019	756	653	433	209	45	2	4	74	355	710	998	5258
60	864	616	501	301	116	13	0	0	25	228	560	843	4067
57	771	532	413	232	74	5	0	0	10	165	471	750	3423
55	709	476	357	192	53	3	0	0	5	128	412	688	3023
50	557	342	229	109	18	0	0	0	1	60	273	533	2122
32	130	30	11	2	0	0	0	0	0	0	10	102	285

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	134	198	381	567	859	1116	1356	1302	1002	679	291	127	8012
55	0	0	14	67	199	429	643	589	318	95	3	0	2357
57	0	0	8	47	159	372	581	527	263	69	1	0	2027
60	0	0	3	26	107	290	488	434	187	40	0	0	1575
65	0	0	0	8	46	171	335	283	87	12	0	0	942
70	0	0	0	1	15	83	193	151	28	2	0	0	473

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	14	65	181	358	631	896	1122	1067	779	453	119	16	14	79	260	618	1249	2145	3267	4334	5113	5566	5685	5701
45	0	13	82	225	478	746	967	912	629	309	43	0	0	13	95	320	798	1544	2511	3423	4052	4361	4404	4404
50	0	0	24	118	331	596	812	757	479	180	10	0	0	0	24	142	473	1069	1881	2638	3117	3297	3307	3307
55	0	0	2	44	199	447	657	602	336	83	0	0	0	0	2	46	245	692	1349	1951	2287	2370	2370	2370
60	0	0	0	12	95	303	502	447	197	23	0	0	0	0	0	12	107	410	912	1359	1556	1579	1579	1579
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	42	92	174	286	432	554	673	656	510	360	140	47	42	134	308	594	1026	1580	2253	2909	3419	3779	3919	3966

(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