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: LUND, NV **COOP ID: 264745**

Climate Division: NV 2 **NWS Call Sign:** **Elevation: 5,560 Feet** **Lat: 38˚52N** **Lon: 115˚01W**

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	42.4	14.4	28.4	68	1961	15	37.3	1986	-17	1963	12	21.4	1979	1135	0	.0	.0	6.9	4.4	30.7	2.6
Feb	47.5	19.4	33.5	75	1986	26	41.0	1995	-12	1990	8	27.2	1994	884	0	.0	.0	11.3	1.8	27.3	.9
Mar	53.9	24.2	39.1	78	1986	29	45.0	1972	-2	1997	1	32.0	1977	805	0	.0	.0	20.3	.3	27.5	.1
Apr	61.8	29.0	45.4	83+	1962	17	51.7	1989	-3	1982	2	37.5	1975	589	0	.0	.0	25.7	.1	21.3	@
May	70.7	36.5	53.6	92+	1984	29	58.5	1984	13	1964	3	47.3	1977	360	6	.0	.3	30.1	.0	8.5	.0
Jun	81.3	43.5	62.4	99	1985	20	66.8+	1985	23	1984	9	56.6	1998	132	54	.0	4.7	29.8	.0	1.1	.0
Jul	88.7	49.7	69.2	104	1961	21	72.4	1996	33+	1987	18	65.2	1993	19	149	.2	14.9	31.0	.0	.0	.0
Aug	86.7	48.5	67.6	104	1958	11	70.2	1986	32	1964	30	62.9	1976	28	110	.1	10.0	31.0	.0	.0	.0
Sep	78.8	41.0	59.9	95	1963	9	63.3+	1983	22	1988	19	54.8	1986	172	18	.0	1.5	29.9	.0	2.6	.0
Oct	67.3	31.4	49.4	90	1979	6	55.2	1988	5	1971	30	44.2	1971	486	1	.0	@	28.5	.2	17.3	.0
Nov	52.5	21.6	37.1	78+	1962	1	43.7	1999	-6	1975	29	29.3	1994	839	0	.0	.0	17.7	.9	28.4	.2
Dec	44.2	14.8	29.5	68+	1958	2	37.8	1980	-18	1984	22	22.8	1990	1101	0	.0	.0	9.8	3.5	30.6	2.1
Ann	64.7	31.2	47.9	104+	Jul 1961	21	72.4	Jul 1996	-18	Dec 1984	22	21.4	Jan 1979	6550	338	.3	31.4	272.0	11.2	195.3	5.9

\+ 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: 1957-2001

(3) Derived from 1971-2000 serially complete daily data

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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	.89	.85	1.12	1992	6	2.24	1993	.06	1972
Feb	.84	.76	1.05	1994	8	2.22	1998	.00+	1991
Mar	1.25	1.17	1.36	1958	30	3.15	1978	.00	1972
Apr	.86	.66	1.08	1978	7	3.44	1978	.01	1993
May	1.19	.96	1.80	1979	25	3.45	1977	.05	1978
Jun	.85	.58	2.37	1967	13	2.72	1972	.00+	1994
Jul	.67	.40	2.00	1987	21	3.05	1979	.00+	2000
Aug	1.07	.83	1.30	1977	18	4.58	1983	.00+	1996
Sep	.96	.84	1.18	1966	19	5.01	1982	.00+	1987
Oct	1.06	.87	1.59	1976	2	3.66	1981	.00+	1999
Nov	.74	.47	1.20	1960	6	2.62	1987	.00	1995
Dec	.63	.43	1.76	1966	6	2.17	1971	.00+	1999
Ann	11.01	10.79	2.37	Jun 1967	13	5.01	Sep 1982	.00+	Jul 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	4.4	2.6	.4	.1
Feb	5.0	2.6	.3	@
Mar	5.9	3.7	.4	@
Apr	4.8	2.5	.3	@
May	5.5	3.1	.6	.1
Jun	3.3	2.0	.4	.2
Jul	3.3	1.6	.3	.1
Aug	4.4	2.7	.6	.2
Sep	3.4	2.3	.5	.1
Oct	4.3	2.5	.6	.1
Nov	3.4	1.8	.4	.1
Dec	3.1	1.7	.1	.0
Ann	50.8	29.1	4.9	1.0

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	.12	.19	.32	.44	.57	.72	.88	1.09	1.37	1.83	2.27
Feb	.00	.07	.21	.35	.48	.64	.82	1.04	1.34	1.85	2.34
Mar	.09	.22	.42	.60	.79	1.00	1.24	1.54	1.94	2.59	3.22
Apr	.06	.11	.22	.34	.47	.63	.81	1.04	1.37	1.92	2.46
May	.10	.18	.34	.50	.68	.89	1.14	1.45	1.88	2.61	3.32
Jun	.00	.00	.08	.22	.37	.55	.76	1.04	1.43	2.08	2.74
Jul	.00	.00	.09	.20	.31	.45	.61	.83	1.12	1.63	2.13
Aug	.00	.07	.23	.39	.57	.77	1.02	1.32	1.75	2.46	3.16
Sep	.00	.02	.12	.25	.40	.59	.83	1.14	1.59	2.37	3.16
Oct	.00	.00	.37	.56	.73	.91	1.11	1.35	1.64	2.13	2.59
Nov	.02	.06	.15	.26	.37	.51	.68	.90	1.21	1.73	2.25
Dec	.00	.00	.08	.22	.35	.48	.63	.81	1.05	1.44	1.83
Ann	6.79	7.56	8.57	9.36	10.07	10.76	11.49	12.30	13.30	14.77	16.06

\+ 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: 1957-2001
(3) Derived from 1971-2000 serially complete daily data

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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	1.8	.8	1	#
Feb	2.6	1.8	1	0
Mar	3.3	.0	#	0
Apr	2.0	.0	#	0
May	.7	.0	#	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	.3	.0	#	0
Nov	1.6	.0	#	0
Dec	2.9	.0	#	#
Ann	15.2	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	8.0	1987	5	9.0	1981	8	1992	6	6	1984
Feb	8.0	1997	27	8.0	1997	10	2000	24	8	1973
Mar	9.0	1982	19	12.6	1973	5	1973	13	2	1983
Apr	8.9	1975	6	13.1	1975	3	1976	16	#+	2000
May	4.0	1975	4	12.0	1975	3	1977	16	#+	1977
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	2.0	1971	16	6.0	1971	2	1985	22	#+	1985
Nov	10.0	1983	21	18.0	1983	11	1985	11	1	1985
Dec	8.0	1996	22	14.0	1971	7	1994	13	1	1992
Ann	10.0	Nov 1983	21	18.0	Nov 1983	11	Nov 1985	11	8	Feb 1973

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	1.1	.9	.3	.2	.0
Feb	1.2	.9	.4	.1	.0
Mar	1.4	1.0	.5	.2	.0
Apr	.5	.4	.2	.1	.0
May	.2	.2	.2	.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	.2	.2	.0	.0	.0
Nov	.5	.4	.1	.1	@
Dec	.9	.7	.2	.1	.0
Ann	6.0	4.7	1.9	.8	@

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	-9.9	-9.9	-9.9	-9.9
Feb	.4	.3	.0	.0
Mar	.3	.3	.1	.0
Apr	.3	.2	.0	.0
May	.1	.1	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.2	.0	.0	.0
Nov	.2	.0	.0	.0
Dec	1.9	.4	.1	.0
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	7/04	6/28	6/24	6/21	6/18	6/14	6/11	6/07	6/02
32	6/19	6/14	6/10	6/06	6/03	5/30	5/27	5/23	5/17
28	6/04	5/30	5/26	5/23	5/20	5/17	5/14	5/10	5/05
24	5/22	5/15	5/10	5/05	5/01	4/27	4/23	4/17	4/10
20	5/08	4/30	4/24	4/20	4/15	4/11	4/06	4/01	3/24
16	4/23	4/15	4/09	4/04	3/31	3/26	3/21	3/15	3/08

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	8/23	8/28	9/01	9/05	9/08	9/11	9/15	9/19	9/24
32	9/09	9/13	9/17	9/20	9/22	9/25	9/28	10/02	10/06
28	9/16	9/22	9/26	9/29	10/02	10/05	10/09	10/13	10/18
24	9/30	10/06	10/10	10/14	10/17	10/20	10/24	10/29	11/04
20	10/17	10/21	10/24	10/27	10/29	11/01	11/03	11/06	11/11
16	10/22	10/27	10/31	11/03	11/06	11/09	11/12	11/15	11/20

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	105	97	91	86	82	77	72	67	59
32	132	125	120	115	111	107	102	97	90
28	157	149	144	139	135	130	126	120	112
24	193	184	178	173	168	163	158	152	144
20	222	213	207	201	196	191	186	180	171
16	249	239	232	225	219	214	207	200	190

***** 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	1135	884	805	589	360	132	19	28	172	486	839	1101	6550
60	980	744	650	444	226	57	2	3	75	338	689	946	5154
57	887	660	557	361	159	29	0	0	39	257	599	853	4401
55	825	604	496	308	122	17	0	0	23	209	539	791	3934
50	670	464	351	193	53	3	0	0	4	110	395	636	2879
32	197	84	28	8	0	0	0	0	0	1	48	168	534

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	85	124	247	409	669	912	1153	1104	836	539	199	90	6367
55	0	0	2	19	78	239	440	391	168	33	1	0	1371
57	0	0	0	12	53	191	378	330	124	20	0	0	1108
60	0	0	0	5	27	129	287	240	70	8	0	0	766
65	0	0	0	0	6	54	149	110	18	1	0	0	338
70	0	0	0	0	0	15	54	30	2	0	0	0	101

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	2	30	81	206	436	680	914	867	603	313	62	2	2	32	113	319	755	1435	2349	3216	3819	4132	4194	4196
45	0	1	29	106	291	532	759	712	454	187	16	0	0	1	30	136	427	959	1718	2430	2884	3071	3087	3087
50	0	0	0	39	168	385	604	557	312	86	1	0	0	0	0	39	207	592	1196	1753	2065	2151	2152	2152
55	0	0	0	11	73	248	449	402	175	27	0	0	0	0	0	11	84	332	781	1183	1358	1385	1385	1385
60	0	0	0	0	23	128	298	250	79	1	0	0	0	0	0	0	23	151	449	699	778	779	779	779
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	22	52	103	200	330	466	581	561	434	282	92	28	22	74	177	377	707	1173	1754	2315	2749	3031	3123	3151

(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