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: SUNNYSIDE, NV **COOP ID: 267908**

Climate Division: NV 3 **NWS Call Sign:** **Elevation: 5,300 Feet** **Lat: 38˚25N** **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	45.2	15.1	30.2	65	1976	17	37.6	1986	-20	1979	30	23.2	1973	1080	0	.0	.0	9.2	2.7	30.0	1.9
Feb	50.6	20.3	35.5	75	1973	27	43.9	1995	-17+	1989	7	28.7	1985	828	0	.0	.0	13.8	1.3	26.4	.6
Mar	56.7	25.5	41.1	79	1966	31	45.9	1989	1	1972	29	35.0	1977	740	0	.0	.0	23.2	.2	25.9	.0
Apr	64.4	30.9	47.7	88+	1996	9	53.9	1989	9+	1966	20	39.3	1975	522	2	.0	.0	27.1	@	17.7	.0
May	73.4	39.0	56.2	95	2000	29	61.4	1997	17	2001	16	49.7	1977	293	20	.0	.8	30.5	.0	5.3	.0
Jun	84.5	47.2	65.9	101+	1970	25	70.1	1981	27	1975	25	60.6	1995	73	99	@	9.0	30.0	.0	.4	.0
Jul	91.3	53.6	72.5	104	1985	5	76.1	1996	32	1974	5	68.7	1993	3	233	.6	20.7	31.0	.0	@	.0
Aug	88.8	51.3	70.1	103	1978	6	73.0	1996	32	1978	25	65.9	1976	10	167	.1	13.5	31.0	.0	@	.0
Sep	80.8	42.9	61.9	95	1987	1	65.6	1979	22	1971	28	57.3	1986	126	31	.0	3.0	30.0	.0	2.5	.0
Oct	69.1	31.7	50.4	90	1980	1	55.9	1988	4	1971	29	45.0	1984	456	2	.0	.1	29.5	@	15.7	.0
Nov	54.6	22.1	38.4	77+	1975	4	44.8	1995	-5	1985	15	31.0	1994	799	0	.0	.0	20.0	.6	26.8	.2
Dec	46.7	15.4	31.1	67	1980	16	37.9	1980	-19	1967	21	24.2	1990	1052	0	.0	.0	10.7	2.5	30.2	1.7
Ann	67.2	32.9	50.1	104	Jul 1985	5	76.1	Jul 1996	-20	Jan 1979	30	23.2	Jan 1973	5982	554	.7	47.1	286.0	7.3	180.9	4.4

\+ 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	.84	.68	1.00	1969	25	2.54	1997	.00+	1976
Feb	.86	.58	1.40	2000	22	3.55	2000	.00+	1977
Mar	1.10	1.05	.87	1982	14	2.93	1992	.00+	1997
Apr	.76	.57	1.07	1981	18	2.81	1978	.00+	1993
May	1.05	.89	1.12	1985	10	3.23	1995	.03	1978
Jun	.58	.35	1.32	1967	13	2.79	1995	.00+	1978
Jul	.77	.41	1.53	1979	22	4.37	1984	.00+	2000
Aug	1.11	1.02	1.36	1983	18	3.89	1983	.00	1985
Sep	1.00	.85	1.79	1997	2	3.69	1997	.00+	1995
Oct	1.07	.88	1.50	1976	1	2.93	2000	.00	1989
Nov	.68	.38	1.11	1987	5	4.19	1987	.00	1995
Dec	.55	.40	.86	1971	24	2.80	1971	.00+	1999
Ann	10.37	9.70	1.79	Sep 1997	2	4.37	Jul 1984	.00+	Jul 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	5.5	2.8	.2	.0
Feb	5.7	2.5	.2	.1
Mar	6.6	3.7	.3	.0
Apr	4.8	2.0	.4	.1
May	5.9	3.1	.4	@
Jun	3.4	1.4	.3	.1
Jul	4.1	2.0	.4	.1
Aug	5.0	2.7	.8	.1
Sep	3.8	2.1	.8	.1
Oct	4.0	2.3	.7	.2
Nov	3.3	1.8	.3	.1
Dec	3.5	1.7	.2	.0
Ann	55.6	28.1	5.0	.9

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	.00	.26	.41	.55	.70	.86	1.07	1.33	1.75	2.16
Feb	.00	.05	.18	.31	.46	.62	.81	1.06	1.39	1.96	2.52
Mar	.00	.00	.35	.55	.73	.92	1.14	1.40	1.74	2.29	2.81
Apr	.00	.00	.07	.17	.30	.45	.65	.91	1.27	1.92	2.58
May	.08	.15	.29	.43	.59	.78	1.00	1.28	1.67	2.31	2.96
Jun	.00	.00	.04	.11	.20	.32	.47	.67	.97	1.49	2.03
Jul	.00	.02	.09	.19	.32	.47	.66	.92	1.28	1.93	2.58
Aug	.11	.24	.42	.59	.75	.93	1.13	1.37	1.69	2.21	2.70
Sep	.00	.00	.15	.31	.49	.69	.93	1.24	1.66	2.39	3.11
Oct	.03	.09	.23	.38	.55	.75	.99	1.30	1.73	2.46	3.19
Nov	.01	.05	.13	.23	.34	.47	.62	.83	1.11	1.60	2.09
Dec	.00	.00	.08	.16	.26	.37	.50	.68	.91	1.32	1.73
Ann	5.66	6.48	7.58	8.45	9.24	10.03	10.86	11.80	12.96	14.69	16.23

\+ 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

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Snow (inches)

Snow Totals

Means/Medians (1)

Extremes (2)

Mean Number of Days (1)

Snow Fall >= Thresholds

Snow Depth >= Thresholds

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year	0.1	1.0	3.0	5.0	10.0	1	3	5	10
Jan	5.5	2.4	1	#	9.5	1990	17	27.0	1979	11	1985	8	8	1985	2.7	1.7	.8	.2	.0	6.6	3.9	2.5	.6
Feb	1.4	.8	1	#	12.0	1989	4	12.0	1989	12	1989	4	6	1985	1.8	.8	.2	@	@	2.7	1.9	1.3	.2
Mar	3.2	2.5	#	#	6.0	1983	24	11.1	1979	4	1991	21	4	1991	1.7	1.1	.3	.1	.0	.3	.0	.0	.0
Apr	1.1	.0	#	0	6.0	1982	1	7.0	1982	6	1982	1	#+	1999	.8	.3	.1	@	.0	.1	.1	.1	.0
May	.1	.0	#	0	1.5	1980	24	1.5	1980	2	1977	16	#	1977	.2	.1	.0	.0	.0	@	.0	.0	.0
Jun	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Jul	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Aug	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Sep	.0	.0	0	0	.8	1982	30	.9	1982	0	0	0	0	0	.1	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.1	.0	#	0	1.5	1985	22	1.6	1985	2+	1997	11	#+	1997	.2	.1	.0	.0	.0	.1	.0	.0	.0
Nov	2.1	.0	#	0	12.0	1978	11	18.5	1978	14	1978	12	3	1978	1.0	.6	.1	.1	@	1.3	.7	.5	.1
Dec	3.0	.6	#	#	9.5	1984	19	22.4	1984	12	1984	21	6	1972	1.4	.9	.2	.1	.0	2.0	.9	.8	.3
Ann	16.5	6.3	N/A	N/A	12.0+	Feb 1989	4	27.0	Jan 1979	14	Nov 1978	12	8	Jan 1985	9.9	5.6	1.7	.5	@	13.1	7.5	5.2	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	6/28	6/21	6/16	6/11	6/07	6/03	5/30	5/24	5/17
32	6/16	6/08	6/02	5/28	5/24	5/19	5/14	5/08	4/30
28	5/27	5/20	5/15	5/11	5/08	5/04	4/30	4/25	4/18
24	5/10	5/03	4/28	4/23	4/19	4/15	4/11	4/06	3/29
20	4/26	4/17	4/12	4/06	4/02	3/28	3/23	3/17	3/09
16	4/16	4/06	3/30	3/24	3/19	3/14	3/08	3/01	2/19

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	9/02	9/07	9/10	9/13	9/16	9/18	9/21	9/24	9/29
32	9/08	9/13	9/16	9/19	9/22	9/25	9/28	10/01	10/06
28	9/17	9/22	9/26	9/30	10/03	10/06	10/10	10/14	10/19
24	10/05	10/10	10/14	10/17	10/20	10/23	10/26	10/30	11/04
20	10/16	10/21	10/24	10/27	10/30	11/02	11/04	11/08	11/13
16	10/28	11/02	11/06	11/09	11/12	11/15	11/18	11/22	11/27

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	125	116	110	105	100	95	89	83	74
32	151	141	133	127	121	115	108	100	90
28	175	165	159	153	148	142	137	130	121
24	212	202	195	189	183	177	171	164	154
20	239	229	222	216	210	205	198	191	181
16	269	258	250	244	237	231	224	217	206

***** 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	1080	828	740	522	293	73	3	10	126	456	799	1052	5982
60	925	688	585	382	177	25	0	0	48	312	649	897	4688
57	832	604	494	303	123	11	0	0	22	235	560	804	3988
55	770	548	434	254	93	6	0	0	12	190	501	742	3550
50	615	408	294	154	39	1	0	0	2	99	358	587	2557
32	172	53	17	4	0	0	0	0	0	1	33	134	414

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	115	149	300	474	751	1015	1254	1180	895	570	224	105	7032
55	0	0	5	34	131	331	541	467	217	46	1	0	1773
57	0	0	2	23	99	276	479	405	167	29	0	0	1480
60	0	0	0	12	60	200	386	313	103	13	0	0	1087
65	0	0	0	2	20	99	233	167	31	2	0	0	554
70	0	0	0	0	4	34	103	60	4	0	0	0	205

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	3	32	113	253	511	783	1012	938	656	348	75	6	3	35	148	401	912	1695	2707	3645	4301	4649	4724	4730
45	0	4	41	144	367	633	857	783	506	212	24	0	0	4	45	189	556	1189	2046	2829	3335	3547	3571	3571
50	0	0	4	61	229	485	702	628	359	102	1	0	0	0	4	65	294	779	1481	2109	2468	2570	2571	2571
55	0	0	0	18	121	341	547	473	220	37	0	0	0	0	0	18	139	480	1027	1500	1720	1757	1757	1757
60	0	0	0	1	45	207	392	319	105	3	0	0	0	0	0	1	46	253	645	964	1069	1072	1072	1072
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	29	56	125	225	368	508	625	598	464	304	99	35	29	85	210	435	803	1311	1936	2534	2998	3302	3401	3436

(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