

Climatography of the United States

No. 20

1971-2000

Station: CARSON CITY, NV

COOP ID: 261485

Climate Division: NV 1

NWS Call Sign:

Elevation: 4,651 Feet Lat: 39°09N

Lon: 119°46W

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	45.6	21.7	33.7	70	1959	18	39.7	1986	-20	1949	26	24.7	1993	972	0	.0	.0	10.8	2.9	26.9	1.2
Feb	50.7	25.4	38.1	76+	1951	10	43.9	1995	-22	1989	7	29.4	1989	755	0	.0	.0	14.9	1.2	22.9	.2
Mar	56.6	29.5	43.1	81	1966	31	48.6	1978	-5	1952	21	37.4	1985	682	0	.0	.0	24.0	.1	20.6	.0
Apr	63.2	33.0	48.1	88	1981	30	53.8	1992	12+	1964	24	40.9	1975	507	0	.0	.0	27.4	.0	15.0	.0
May	71.6	39.7	55.7	93+	1951	27	62.3	1992	18	1967	1	49.2	1998	306	16	.0	.5	30.6	.0	4.9	.0
Jun	81.2	46.1	63.7	101	1950	30	69.9	1977	27+	1950	8	59.5	1998	110	68	@	4.6	30.0	.0	.7	.0
Jul	89.2	50.7	70.0	103+	1960	18	73.3	1996	33+	1987	22	65.8	1987	11	164	.4	15.9	31.0	.0	.0	.0
Aug	87.8	49.1	68.5	103	1972	8	71.4	1977	26	1968	22	62.8	1976	27	133	.2	12.4	31.0	.0	@	.0
Sep	80.2	42.4	61.3	103	1950	3	65.1	1991	20	1965	18	54.8	1986	149	37	.0	2.5	30.0	.0	2.6	.0
Oct	68.8	33.4	51.1	91+	1963	1	55.6	1988	6	1971	29	46.8	1984	433	1	.0	@	29.7	.0	14.4	.0
Nov	54.7	26.4	40.6	78+	1960	1	47.6	1995	-4	1994	19	33.2	1994	733	0	.0	.0	19.8	.3	23.2	.1
Dec	46.2	20.8	33.5	75	1958	4	41.8	1981	-19+	1990	22	24.8	1990	976	0	.0	.0	11.7	3.1	27.1	1.0
Ann	66.3	34.9	50.6	103+	Aug 1972	8	73.3	Jul 1996	-22	Feb 1989	7	24.7	Jan 1993	5661	419	.6	35.9	290.9	7.6	158.3	2.5

+ 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/normal/usnormals.html

Issue Date: February 2004

(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

009-A

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: CARSON CITY, NV

COOP ID: 261485

Climate Division: NV 1

NWS Call Sign:

Elevation: 4,651 Feet Lat: 39°09N

Lon: 119°46W

Precipitation (inches)																								
	Precipitation Totals									Mean Number of Days (3)				Precipitation Probabilities (1) Probability that the monthly/annual precipitation will be equal to or less than the indicated amount										
	Means/ Medians(1)		Extremes							Daily Precipitation				Monthly/Annual Precipitation vs Probability Levels These values were determined from the incomplete gamma distribution										
Month	Mean	Med-ian	Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year	>= 0.01	>= 0.10	>= 0.50	>= 1.00	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	1.82	1.24	2.51	1963	31	5.91	1980	.00+	1992	6.3	3.8	1.1	.2	.00	.11	.39	.67	.97	1.32	1.73	2.25	2.97	4.17	5.36
Feb	1.66	1.28	3.03	1963	1	9.87	1986	.08	1988	5.6	3.7	.9	.3	.10	.20	.41	.64	.89	1.19	1.55	2.01	2.65	3.74	4.83
Mar	1.26	.89	1.62	1998	24	5.37	1995	.00	1997	5.6	3.2	.7	.1	.02	.09	.24	.41	.61	.85	1.14	1.51	2.05	2.96	3.87
Apr	.42	.34	1.64	1958	3	1.41	1982	.00	1977	3.1	1.4	.1	.0	.01	.04	.09	.15	.22	.29	.39	.51	.68	.96	1.25
May	.52	.29	1.20	1968	12	2.22	1995	.00+	1985	3.4	1.6	.3	.0	.00	.01	.05	.11	.18	.29	.42	.60	.87	1.34	1.83
Jun	.40	.21	1.25	1997	14	1.40	1997	.00+	1994	2.4	1.2	.1	@	.00	.00	.02	.08	.16	.25	.35	.49	.69	1.02	1.37
Jul	.22	.08	.93	1989	19	.93	1989	.00+	2000	1.4	.6	.1	.0	.00	.00	.00	.01	.05	.11	.17	.26	.38	.60	.81
Aug	.32	.14	.67	1958	17	1.45	1975	.00+	1995	1.8	1.0	.1	.0	.00	.00	.00	.04	.09	.16	.25	.37	.55	.85	1.16
Sep	.51	.20	1.09	1951	18	2.92	1982	.00+	1999	2.4	1.3	.2	@	.00	.00	.00	.02	.09	.19	.34	.55	.88	1.47	2.10
Oct	.69	.61	1.90	1962	14	2.43	1982	.00+	1997	3.4	1.9	.4	@	.00	.04	.15	.25	.37	.50	.66	.85	1.12	1.57	2.01
Nov	1.26	.92	3.12	1950	19	5.49	1983	.00	1992	4.5	2.8	.7	.2	.03	.11	.27	.45	.65	.88	1.17	1.53	2.04	2.91	3.77
Dec	1.28	.80	3.02	1955	24	4.85	1996	.00+	2000	4.9	2.9	.7	.2	.00	.00	.12	.28	.49	.75	1.08	1.52	2.15	3.25	4.38
Ann	10.36	8.84	3.12	Nov 1950	19	9.87	Feb 1986	.00+	Dec 2000	44.8	25.4	5.4	1.0	4.09	5.04	6.40	7.53	8.59	9.67	10.84	12.19	13.91	16.54	18.93

+ 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:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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Station: CARSON CITY, NV

COOP ID: 261485

Climate Division: NV 1

NWS Call Sign:

Elevation: 4,651 Feet

Lat: 39°09N

Lon: 119°46W

Snow (inches)																							
Snow Totals															Mean Number of Days (1)								
Means/Medians (1)					Extremes (2)										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	5.0	3.5	1	#	11.0	1971	12	19.0	1982	11	1982	5	5	1982	1.8	1.4	.6	.2	@	2.9	1.5	.9	.1
Feb	3.5	3.0	#	#	9.0	1989	3	13.0	1976	8	1976	6	2	1976	1.6	1.3	.7	.3	.0	2.1	1.2	.4	.0
Mar	2.1	.9	#	0	10.2	1975	14	14.4	1975	10	1975	14	1	1975	.8	.6	.3	@	@	.8	.2	.1	.1
Apr	.4	.0	#	0	4.3	1975	16	8.3	1975	4	1982	1	#+	1999	.4	.1	.1	.0	.0	.3	.1	.0	.0
May	.1	.0	#	0	1.5	1977	17	1.5	1977	3	1971	20	#+	1983	.1	@	.0	.0	.0	.1	.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	1.0	1982	29	1.0	1982	1	1982	29	#+	1982	@	@	.0	.0	.0	@	.0	.0	.0
Oct	.2	.0	#	0	4.0	1971	16	4.0	1971	4	1971	16	#+	1996	@	@	@	.0	.0	@	@	.0	.0
Nov	.8	.0	#	0	4.5	1978	13	5.2	1978	16	1985	10	2	1985	.5	.3	.1	.0	.0	.6	.1	.1	.0
Dec	2.2	1.5	1	#	5.0	1978	18	6.5	1978	18	1996	23	15	1996	1.1	.8	.1	@	.0	2.2	1.2	.2	.0
Ann	14.3	8.9	N/A	N/A	11.0	Jan 1971	12	19.0	Jan 1982	18	Dec 1996	23	15	Dec 1996	6.3	4.5	1.9	.5	@	9.0	4.3	1.7	.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

Complete documentation available from:

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No. 20 1971-2000

Station: CARSON CITY, NV

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Climate Division: NV 1

NWS Call Sign:

Elevation: 4,651 Feet

Lat: 39°09N

Lon: 119°46W

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	7/06	6/29	6/23	6/19	6/15	6/10	6/06	6/01	5/24
32	6/19	6/12	6/06	6/02	5/29	5/24	5/20	5/15	5/07
28	5/26	5/20	5/16	5/12	5/09	5/05	5/02	4/27	4/21
24	5/16	5/08	5/03	4/28	4/24	4/19	4/15	4/09	4/02
20	4/30	4/20	4/12	4/06	3/31	3/25	3/19	3/11	3/01
16	4/05	3/24	3/16	3/09	3/02	2/24	2/16	2/08	1/27
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	8/21	8/27	9/01	9/05	9/09	9/13	9/17	9/22	9/28
32	9/07	9/14	9/19	9/23	9/27	9/30	10/05	10/09	10/16
28	9/19	9/26	9/30	10/04	10/07	10/11	10/14	10/19	10/25
24	9/28	10/04	10/09	10/13	10/17	10/20	10/24	10/29	11/04
20	10/09	10/16	10/20	10/24	10/28	10/31	11/04	11/09	11/15
16	10/21	10/28	11/03	11/07	11/12	11/16	11/21	11/26	12/04
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	120	108	100	92	86	79	72	63	52
32	151	140	133	126	120	114	108	100	90
28	178	168	162	156	151	145	140	133	124
24	211	198	190	182	175	168	160	152	139
20	249	235	226	218	210	202	194	184	171
16	300	284	273	263	254	245	235	224	208

* 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

Complete documentation available from:
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COOP ID: 261485

Climate Division: NV 1 NWS Call Sign: Elevation: 4,651 Feet Lat: 39°09N Lon: 119°46W

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	972	755	682	507	306	110	11	27	149	433	733	976	5661
60	817	615	527	362	185	44	1	4	65	285	583	821	4309
57	724	531	435	281	128	22	0	1	33	207	493	728	3583
55	662	475	377	230	97	13	0	0	19	160	434	666	3133
50	513	340	239	127	39	2	0	0	3	71	295	519	2148
32	105	26	7	0	0	0	0	0	0	0	19	114	271

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	156	194	349	483	734	949	1175	1129	878	591	276	161	7075
55	0	0	5	24	117	271	462	416	207	38	1	0	1541
57	0	0	2	14	87	220	400	355	161	23	0	0	1262
60	0	0	0	6	51	153	308	265	102	9	0	0	894
65	0	0	0	0	16	68	164	133	37	1	0	0	419
70	0	0	0	0	3	20	59	46	8	0	0	0	136

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	30	58	140	257	488	710	930	879	640	353	103	33	30	88	228	485	973	1683	2613	3492	4132	4485	4588	4621
45	5	15	57	142	340	560	775	724	490	219	43	8	5	20	77	219	559	1119	1894	2618	3108	3327	3370	3378
50	0	0	11	55	206	412	620	569	343	109	9	0	0	0	11	66	272	684	1304	1873	2216	2325	2334	2334
55	0	0	0	17	104	273	465	414	205	37	0	0	0	0	0	17	121	394	859	1273	1478	1515	1515	1515
60	0	0	0	0	38	152	314	264	98	8	0	0	0	0	0	0	38	190	504	768	866	874	874	874
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	34	63	125	203	338	465	581	566	448	296	105	37	34	97	222	425	763	1228	1809	2375	2823	3119	3224	3261

(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:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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.
Complete documentation for the 1971-2000 Normals is available on the internet from:
www.ncdc.noaa.gov/oa/climate/normal/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 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.

- | | |
|---|---|
| <ol style="list-style-type: none">a. Temperature/ Precipitation Tables<ol style="list-style-type: none">1. 1971-2000 Monthly Normals2. Cooperative Summary of the Day3. National Weather Service station records4. 1971-2000 serially complete daily datab. Degree Day Table<ol style="list-style-type: none">1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data | <ol style="list-style-type: none">c. Snow Tables<ol style="list-style-type: none">1. Snow Climatology2. Cooperative Summary of the Dayd. Freeze Data Table
1971-2000 serially complete daily data |
|---|---|

References

U.S. Climate Normals 1971-2000, www.ncdc.noaa.gov/normal.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normal/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