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: DESERT NATL WL RANGE, NV **COOP ID: 262243**

Climate Division: NV 4 **NWS Call Sign:** **Elevation: 2,920 Feet** **Lat: 36˚26N** **Lon: 115˚22W**

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	56.7	28.7	42.7	80	1971	18	46.6	1986	0	1974	3	36.8	1974	692	0	.0	.0	26.1	.1	21.3	@
Feb	61.9	32.7	47.3	87	1986	26	53.8	1995	0	1951	22	42.7	1994	497	0	.0	.0	26.5	.2	12.7	.0
Mar	67.4	37.7	52.6	91	1966	31	59.6	1972	17	1962	1	47.6	1973	395	8	.0	@	30.5	.0	5.8	.0
Apr	75.6	44.0	59.8	98+	1989	7	67.8	1989	25	1999	1	52.4	1975	206	49	.0	2.2	29.9	.0	1.0	.0
May	85.1	52.1	68.6	107+	2000	29	74.5	1984	30+	1962	10	62.4	1977	64	176	1.3	11.8	31.0	.0	@	.0
Jun	96.2	60.2	78.2	112+	1954	22	83.0	1994	36	1951	4	72.2	1998	2	398	11.9	25.1	30.0	.0	.0	.0
Jul	101.5	66.4	84.0	115+	1985	5	87.7	1996	43	1963	27	80.5	1987	0	587	22.5	30.1	31.0	.0	.0	.0
Aug	99.4	65.5	82.5	114	1994	16	87.4	1994	43	1965	23	78.5	1976	0	540	17.9	29.6	31.0	.0	.0	.0
Sep	91.6	58.1	74.9	109	1950	1	78.7	1979	20	1953	3	70.1	1986	3	298	4.7	19.9	30.0	.0	.0	.0
Oct	79.4	46.2	62.8	100+	1963	1	69.8	1988	19	1971	30	57.5	1984	142	74	.1	5.3	31.0	.0	.6	.0
Nov	65.3	35.2	50.3	86+	1962	2	56.0	1995	16	1979	22	43.9	1994	445	2	.0	.0	29.3	.0	9.6	.0
Dec	56.8	28.5	42.7	78+	1977	4	48.5	1980	3	1990	23	37.0	1990	693	0	.0	.0	26.3	.1	21.9	.0
Ann	78.1	46.3	62.2	115+	Jul 1985	5	87.7	Jul 1996	0+	Jan 1974	3	36.8	Jan 1974	3139	2132	58.4	124.0	352.6	.4	72.9	@

+ 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: 1948-2001

(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	.47	.25	1.11	1990	18	2.29	1995	.00+	1991
Feb	.58	.21	1.45	1949	27	2.55	1976	.00+	1985
Mar	.78	.48	1.80	1998	26	4.03	1992	.00+	1997
Apr	.28	.08	.70	1980	29	1.48	1999	.00+	2000
May	.27	.17	1.10	1987	16	1.20	1987	.00+	2000
Jun	.14	.08	1.55	1969	17	.95	1998	.00+	1996
Jul	.49	.23	1.72	1984	22	3.88	1984	.00+	2000
Aug	.42	.26	1.44	1957	21	1.96	1983	.00+	1993
Sep	.42	.17	1.37	1966	19	2.12	1997	.00+	2000
Oct	.29	.08	1.03	1958	25	1.40	1974	.00+	1999
Nov	.29	.12	1.48	1984	22	1.72	1984	.00+	2000
Dec	.39	.22	2.05	1951	12	2.02	1994	.00+	2000
Ann	4.82	4.56	2.05	Dec 1951	12	4.03	Mar 1992	.00+	Dec 2000

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	3.0	1.3	.2	@
Feb	3.1	1.4	.3	@
Mar	3.6	2.0	.4	@
Apr	1.7	.9	.1	.0
May	1.6	.7	.1	@
Jun	1.0	.5	.1	.0
Jul	2.1	1.2	.2	@
Aug	2.5	1.2	.3	@
Sep	2.0	1.0	.2	.1
Oct	1.6	.8	.2	.0
Nov	1.6	.7	.2	@
Dec	2.0	1.0	.2	@
Ann	25.8	12.7	2.5	.1

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	.03	.08	.15	.25	.37	.54	.80	1.25	1.71
Feb	.00	.00	.04	.11	.20	.31	.46	.67	.97	1.51	2.06
Mar	.00	.00	.03	.14	.28	.45	.66	.94	1.33	2.01	2.71
Apr	.00	.00	.00	.00	.03	.09	.18	.30	.48	.81	1.15
May	.00	.00	.03	.07	.12	.17	.24	.33	.46	.66	.87
Jun	.00	.00	.00	.00	.00	.05	.11	.17	.26	.41	.55
Jul	.00	.00	.00	.01	.09	.20	.35	.55	.85	1.39	1.93
Aug	.00	.00	.00	.06	.14	.24	.37	.52	.74	1.11	1.48
Sep	.00	.00	.00	.00	.03	.14	.28	.48	.75	1.23	1.70
Oct	.00	.00	.00	.00	.03	.10	.20	.33	.51	.83	1.16
Nov	.00	.00	.00	.00	.03	.13	.23	.36	.54	.83	1.12
Dec	.00	.00	.00	.04	.12	.21	.33	.47	.68	1.05	1.41
Ann	1.83	2.28	2.92	3.45	3.96	4.47	5.03	5.67	6.50	7.76	8.91

\+ 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	.6	.0	0	0	8.0	1974	5	13.5	1974	6	1974	5	1	1974	.2	.1	.1	.1	.0	.2	.1	@	.0
Feb	.0	.0	#	0	.5	1996	27	.5	1996	2	1996	26	#	1996	@	.0	.0	.0	.0	.0	.0	.0	.0
Mar	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Apr	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
May	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.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	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	#	.0	0	0	#	1971	17	#	1971	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.0	.0	0	0	.1	1972	5	.1	1972	0	0	0	0	0	@	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.6	.0	N/A	N/A	8.0	Jan 1974	5	13.5	Jan 1974	6	Jan 1974	5	1	Jan 1974	.2	.1	.1	.1	.0	.2	.1	@	.0

+ 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	5/07	4/30	4/25	4/21	4/17	4/13	4/09	4/04	3/28
32	4/21	4/13	4/08	4/03	3/29	3/25	3/20	3/14	3/07
28	4/07	3/29	3/22	3/16	3/11	3/06	2/28	2/22	2/13
24	3/18	3/07	2/28	2/21	2/15	2/09	2/03	1/26	1/16
20	3/02	2/19	2/11	2/04	1/28	1/22	1/14	1/06	12/23
16	2/19	2/04	1/23	1/12	12/30	12/12	0/00	0/00	0/00

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	10/16	10/20	10/23	10/26	10/28	10/31	11/02	11/05	11/10
32	10/23	10/28	10/31	11/03	11/06	11/08	11/11	11/14	11/19
28	11/05	11/10	11/13	11/16	11/18	11/21	11/24	11/27	12/01
24	10/30	11/10	11/18	11/24	11/30	12/07	12/13	12/21	1/01
20	11/17	11/28	12/05	12/12	12/19	12/25	1/01	1/11	1/28
16	12/08	12/21	12/30	1/09	1/20	2/08	0/00	0/00	0/00

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	217	209	203	198	194	189	184	179	171
32	246	237	231	226	221	215	210	204	195
28	278	269	262	257	251	246	240	234	224
24	329	313	302	294	286	278	270	260	247
20	>365	>365	350	331	319	309	298	287	272
16	>365	>365	>365	>365	>365	>365	>365	>365	322

***** 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	692	497	395	206	64	2	0	0	3	142	445	693	3139
60	537	358	260	117	24	0	0	0	0	68	304	538	2206
57	444	277	191	75	12	0	0	0	0	39	228	446	1712
55	382	226	152	53	7	0	0	0	0	26	182	386	1414
50	239	117	74	19	1	0	0	0	0	7	91	245	793
32	4	0	0	0	0	0	0	0	0	0	0	6	10

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	335	427	636	833	1134	1386	1610	1563	1285	955	547	336	11047
55	1	9	75	196	428	696	897	850	595	267	39	3	4056
57	0	4	52	158	371	636	835	788	535	219	25	0	3623
60	0	1	28	110	290	546	742	695	445	155	11	0	3023
65	0	0	8	49	176	398	587	540	298	74	2	0	2132
70	0	0	1	17	90	258	432	385	164	26	0	0	1373

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	147	253	417	626	915	1164	1385	1335	1069	737	333	146	147	400	817	1443	2358	3522	4907	6242	7311	8048	8381	8527
45	55	131	269	476	760	1014	1230	1180	919	582	203	53	55	186	455	931	1691	2705	3935	5115	6034	6616	6819	6872
50	12	52	145	330	605	864	1075	1025	769	431	99	10	12	64	209	539	1144	2008	3083	4108	4877	5308	5407	5417
55	0	12	56	200	453	714	920	870	619	287	36	0	0	12	68	268	721	1435	2355	3225	3844	4131	4167	4167
60	0	0	18	99	306	564	765	715	469	163	8	0	0	0	18	117	423	987	1752	2467	2936	3099	3107	3107
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	131	195	293	412	577	697	825	806	664	475	246	134	131	326	619	1031	1608	2305	3130	3936	4600	5075	5321	5455

(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