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: EMIGRANT PASS HWY STA, NV **COOP ID: 262656**

Climate Division: NV 2 **NWS Call Sign:** **Elevation: 5,760 Feet** **Lat: 40˚39N** **Lon: 116˚18W**

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	37.9	18.4	28.2	60	1990	9	35.8	1986	-14+	1972	4	21.1	1989	1142	0	.0	.0	3.3	7.4	29.4	1.5
Feb	42.3	23.1	32.7	69	1986	28	41.2	1995	-15	1989	5	25.3	1993	905	0	.0	.0	6.0	3.5	25.0	.6
Mar	49.1	27.1	38.1	75	1972	9	45.6	1986	-5	1971	2	33.2	1971	833	0	.0	.0	15.2	.5	23.6	@
Apr	57.4	31.1	44.3	84	1981	30	52.9	1987	8	1975	7	33.8	1975	626	3	.0	.0	23.1	.1	16.6	.0
May	66.4	38.2	52.3	91+	1983	30	60.9	1992	11	1965	6	45.8	1977	409	16	.0	.2	29.4	.0	6.0	.0
Jun	78.5	46.6	62.6	99	1974	13	70.0	1974	27+	1979	8	56.7	1993	156	81	.0	3.4	29.8	.0	.6	.0
Jul	88.7	55.0	71.9	101+	1967	12	77.4	1985	33	1976	26	64.0	1993	18	229	.1	16.1	31.0	.0	.0	.0
Aug	86.5	53.4	70.0	102	1981	5	76.1	1981	26	1976	17	59.1	1976	46	200	.1	10.3	31.0	.0	.1	.0
Sep	77.0	44.4	60.7	96	1976	2	66.7	1990	24	1968	21	51.1	1972	192	63	.0	1.4	30.0	.0	1.4	.0
Oct	64.0	33.6	48.8	89	1979	2	58.1	1988	5	1996	21	43.0	1971	510	8	.0	.0	26.6	.1	11.9	.0
Nov	48.0	24.9	36.5	74	1965	1	43.8	1995	-9	1994	23	26.3	1994	856	0	.0	.0	12.7	1.7	23.7	.1
Dec	39.0	18.9	29.0	62	1981	9	35.5	1977	-28	1972	10	19.1	1971	1117	0	.0	.0	3.9	6.3	28.9	1.3
Ann	61.2	34.6	47.9	102	Aug 1981	5	77.4	Jul 1985	-28	Dec 1972	10	19.1	Dec 1971	6810	600	.2	31.4	242.0	19.6	167.2	3.5

\+ 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/normals/usnormals.html

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1954-2001

(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	1.35	1.22	1.34	1997	2	4.36	1996	.34	1972
Feb	1.09	.95	.88	2000	13	3.09	2000	.00	1997
Mar	1.41	1.30	1.15	1972	2	2.72	1995	.16	1988
Apr	1.27	.97	1.54	1994	24	3.37	1994	.14	1987
May	1.68	1.45	1.25	1957	11	5.20	1995	.00+	1997
Jun	.99	.88	1.90	1968	6	3.50	1997	.00+	1994
Jul	.31	.21	1.10	1975	10	1.29	1975	.00+	2000
Aug	.45	.19	.90	1983	9	2.47	1983	.00+	1987
Sep	.79	.63	.80	1995	3	2.67	1982	.00+	1999
Oct	.97	.96	1.02	1963	12	2.56	1975	.00	1977
Nov	1.31	1.16	1.10	2000	8	3.20	1973	.20	1986
Dec	1.13	.78	1.90	1996	6	3.98	1983	.00	1976
Ann	12.75+	12.40+	1.90+	Dec 1996	6	5.20	May 1995	.00+	Jul 2000

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	7.8	4.6	.5	.1
Feb	7.3	3.8	.3	.0
Mar	7.9	4.8	.4	@
Apr	6.3	4.1	.5	.1
May	6.8	4.6	.9	.1
Jun	3.9	2.6	.6	.1
Jul	2.0	1.0	.1	@
Aug	2.6	1.3	.3	.0
Sep	3.8	2.3	.4	.0
Oct	4.4	3.0	.6	.0
Nov	6.7	4.2	.4	@
Dec	6.3	3.6	.3	.1
Ann	65.8	39.9	5.3	.5

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	.32	.45	.64	.82	1.00	1.18	1.39	1.64	1.97	2.49	2.97
Feb	.13	.27	.45	.61	.77	.93	1.12	1.34	1.64	2.11	2.56
Mar	.35	.48	.69	.87	1.05	1.24	1.45	1.70	2.03	2.55	3.03
Apr	.17	.28	.46	.63	.82	1.02	1.26	1.55	1.94	2.58	3.20
May	.00	.18	.48	.75	1.03	1.33	1.68	2.10	2.67	3.61	4.52
Jun	.00	.05	.19	.34	.50	.69	.92	1.21	1.61	2.30	2.97
Jul	.00	.00	.07	.12	.17	.23	.30	.39	.51	.70	.89
Aug	.00	.01	.05	.10	.17	.26	.37	.52	.75	1.14	1.55
Sep	.00	.00	.16	.29	.43	.59	.77	.99	1.30	1.81	2.30
Oct	.04	.12	.26	.40	.56	.73	.93	1.19	1.54	2.13	2.71
Nov	.22	.34	.53	.71	.89	1.09	1.32	1.60	1.97	2.57	3.14
Dec	.07	.18	.35	.52	.70	.89	1.12	1.40	1.77	2.40	3.00
Ann	7.93	8.82	9.98	10.87	11.68	12.47	13.30	14.22	15.36	17.02	18.48

+ 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: 1954-2001
(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	9.4	8.9	1	#
Feb	8.4	8.0	#	#
Mar	6.8	7.0	#	#
Apr	3.4	1.7	#	0
May	2.3	.0	#	0
Jun	.1	.0	#	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	#	.0	#	0
Oct	1.2	.0	#	0
Nov	6.4	5.0	#	#
Dec	9.5	8.5	1	#
Ann	47.5	39.1	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	11.0	1978	19	23.0	1988	12	1988	5	5	1973
Feb	12.0	1978	10	25.0	1978	10	1978	10	3	1973
Mar	9.6	1973	21	20.0	1987	15	1976	27	2	1973
Apr	11.1	1975	6	19.5	1975	11	1975	6	2	1975
May	9.1	1975	4	14.2	1975	9	1975	4	1	1975
Jun	1.0	1975	18	2.0	1975	#	1975	25	#	1975
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	#	1971	30	#	1971	#	1971	30	#	1971
Oct	5.4	1971	1	12.7	1971	5	1971	1	1	1971
Nov	9.6	1973	26	17.4	1973	14	1973	26	2	1973
Dec	12.0	1988	25	33.0	1983	13	1988	25	6	1971
Ann	12.0+	Dec 1988	25	33.0	Dec 1983	15	Mar 1976	27	6	Dec 1971

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	3.1	3.0	1.3	.3	.1
Feb	2.7	2.7	1.1	.3	.1
Mar	2.0	2.0	1.0	.3	.0
Apr	1.1	1.1	.4	.1	.1
May	.5	.5	.3	.1	.0
Jun	.1	.1	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.0	.0	.0	.0	.0
Oct	.4	.4	.2	.1	.0
Nov	2.0	2.0	.7	.2	.0
Dec	3.1	2.9	1.3	.3	.1
Ann	15.0	14.7	6.3	1.7	.4

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	5.7	4.2	2.3	.2
Feb	3.9	1.9	.4	.1
Mar	1.4	.6	.4	.1
Apr	.5	.2	.2	@
May	.3	.2	.1	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.3	.1	@	.0
Nov	1.6	1.1	.7	.1
Dec	5.2	3.2	1.7	.2
Ann	18.9	11.5	5.8	.7

+ 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	7/01	6/24	6/19	6/15	6/11	6/07	6/03	5/29	5/22
32	6/14	6/09	6/04	6/01	5/28	5/25	5/21	5/17	5/11
28	5/29	5/22	5/17	5/13	5/10	5/06	5/02	4/27	4/21
24	5/13	5/05	4/30	4/26	4/21	4/17	4/13	4/08	3/31
20	4/28	4/19	4/13	4/07	4/02	3/28	3/22	3/16	3/07
16	4/07	3/30	3/23	3/18	3/13	3/08	3/02	2/24	2/15

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	8/28	9/04	9/09	9/14	9/18	9/22	9/26	10/01	10/09
32	9/10	9/16	9/20	9/24	9/27	10/01	10/05	10/09	10/15
28	9/17	9/25	9/30	10/05	10/10	10/14	10/19	10/25	11/02
24	10/12	10/17	10/20	10/23	10/26	10/29	11/01	11/05	11/10
20	10/16	10/22	10/26	10/30	11/02	11/05	11/09	11/13	11/19
16	10/23	10/31	11/05	11/10	11/14	11/19	11/24	11/29	12/07

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	132	120	112	105	98	91	84	75	63
32	147	138	132	127	121	116	111	105	96
28	184	173	165	159	152	146	140	132	121
24	216	206	199	193	187	181	175	168	158
20	246	235	227	220	213	207	200	192	181
16	281	269	260	253	246	239	231	223	210

***** 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	1142	905	833	626	409	156	18	46	192	510	856	1117	6810
60	987	765	678	484	280	82	3	15	108	371	706	962	5441
57	894	681	585	403	215	51	1	7	71	296	617	869	4690
55	832	625	524	351	178	36	0	3	51	251	558	807	4216
50	677	488	376	238	100	12	0	0	19	155	418	652	3135
32	193	105	32	21	2	0	0	0	0	7	69	193	622

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	74	123	223	388	632	916	1234	1177	861	528	203	99	6458
55	0	0	1	29	94	261	521	467	222	59	2	0	1656
57	0	0	0	20	70	217	460	408	181	42	1	0	1399
60	0	0	0	11	42	158	369	324	129	24	0	0	1057
65	0	0	0	3	16	81	229	200	63	8	0	0	600
70	0	0	0	0	4	33	118	107	24	2	0	0	288

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	22	66	181	405	690	997	939	643	300	66	8	2	24	90	271	676	1366	2363	3302	3945	4245	4311	4319
45	0	5	23	90	268	542	842	784	493	184	22	0	0	5	28	118	386	928	1770	2554	3047	3231	3253	3253
50	0	0	0	37	152	401	687	629	352	93	3	0	0	0	0	37	189	590	1277	1906	2258	2351	2354	2354
55	0	0	0	12	74	269	532	474	222	35	0	0	0	0	0	12	86	355	887	1361	1583	1618	1618	1618
60	0	0	0	1	26	153	379	327	121	10	0	0	0	0	0	1	27	180	559	886	1007	1017	1017	1017
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	13	55	135	266	451	640	618	430	222	54	5	0	13	68	203	469	920	1560	2178	2608	2830	2884	2889

(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