

# Climatology of the United States

No. 20

1971-2000

Station: BEOVAWE, NV

COOP ID: 260795

Climate Division: NV 2

NWS Call Sign:

Elevation: 4,700 Feet Lat: 40° 35N

Lon: 116° 28W

## 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	39.8	16.1	28.0	67	1971	18	38.4	1986	-29	1962	23	15.0	1989	1149	0	.0	.0	5.2	7.5	29.4	5.2
Feb	46.6	22.1	34.4	72	1986	28	41.1	1986	-36	1989	6	22.0	1989	858	0	.0	.0	10.3	2.7	26.1	.9
Mar	54.9	26.9	40.9	79	1966	31	47.5	1978	-4	1952	4	34.7	1991	748	0	.0	.0	21.5	.2	24.9	.1
Apr	62.9	30.7	46.8	90	1981	30	52.6	1987	10+	1953	11	39.0	1975	547	1	.0	@	26.1	.0	18.1	.0
May	71.8	38.5	55.2	96+	1972	30	63.6	1992	12	1953	10	45.9	1991	335	31	.0	1.2	29.3	@	7.6	.0
Jun	82.8	45.3	64.1	105	1974	13	71.3	1974	19	1954	6	56.1	1991	134	106	.5	8.2	29.9	.0	1.0	.0
Jul	91.9	51.1	71.5	108+	1975	27	75.5	1971	27	1954	22	64.0	1993	27	228	3.4	19.9	31.0	.0	.0	.0
Aug	90.7	49.3	70.0	106+	1972	9	77.0	1971	24	1960	23	63.8	1990	44	199	2.2	18.2	31.0	.0	.2	.0
Sep	80.5	40.7	60.6	101	1955	4	65.6	1981	13	1954	29	53.3	1988	185	52	@	5.1	29.9	.0	5.3	.0
Oct	67.3	30.7	49.0	91	1963	1	54.9	1979	1	1996	21	43.3	1989	497	1	.0	.1	28.6	.2	20.3	.0
Nov	50.6	23.7	37.2	78+	1980	5	43.6	1999	-9	1955	15	28.4	1993	836	0	.0	.0	14.8	1.1	25.7	.4
Dec	40.7	16.4	28.6	65	1995	1	37.6	1977	-43	1990	22	13.3	1990	1131	0	.0	.0	5.6	6.1	29.1	3.0
Ann	65.0	32.6	48.9	108+	Jul 1975	27	77.0	Aug 1971	-43	Dec 1990	22	13.3	Dec 1990	6491	618	6.1	52.7	263.2	17.8	187.7	9.6

+ 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](http://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: 1949-2001

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

005-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: BEOWAVE, NV

COOP ID: 260795

Climate Division: NV 2

NWS Call Sign:

Elevation: 4,700 Feet Lat: 40°35N

Lon: 116°28W

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	.84	.62	.78+	1973	11	2.45	1996	.00+	1976	6.0	2.8	.3	.0	.00	.09	.23	.37	.51	.66	.83	1.04	1.33	1.81	2.27
Feb	.68	.60	1.00	1956	18	1.97	2000	.00	1985	5.7	2.4	.1	.0	.05	.12	.22	.32	.43	.54	.67	.84	1.05	1.41	1.76
Mar	.84	.70	.97	1989	26	1.92	1989	.00+	1976	7.2	3.0	.2	.0	.00	.17	.35	.48	.61	.74	.88	1.05	1.27	1.63	1.96
Apr	.78	.57	1.40	1978	26	3.19	1978	.01	1992	5.0	2.2	.3	@	.06	.11	.21	.31	.44	.57	.74	.95	1.24	1.74	2.23
May	1.33	.88	1.60	1991	14	6.16	1987	.00+	1974	6.0	3.2	.5	.1	.00	.06	.24	.44	.66	.92	1.23	1.63	2.19	3.14	4.08
Jun	.72	.57	1.24	1968	6	2.29	1997	.00+	1981	3.3	1.9	.3	@	.00	.00	.09	.22	.35	.50	.68	.90	1.22	1.73	2.25
Jul	.27	.20	.85	1976	17	1.50	1976	.00+	1999	1.7	.9	.1	.0	.00	.00	.02	.07	.12	.18	.25	.34	.46	.67	.89
Aug	.46	.15	1.01	1989	10	2.60	1983	.00+	1985	2.5	1.2	.2	.1	.00	.00	.01	.06	.13	.23	.36	.53	.79	1.24	1.72
Sep	.61	.31	1.23	1976	15	2.70	1976	.00+	1999	3.2	2.0	.2	@	.00	.00	.03	.13	.24	.37	.53	.74	1.04	1.54	2.06
Oct	.68	.69	1.50	1949	19	2.24	1984	.00+	1999	3.6	1.8	.3	.0	.00	.00	.08	.20	.32	.46	.63	.84	1.14	1.63	2.11
Nov	.82	.67	1.63	1950	18	2.27	1987	.13	1986	5.1	3.0	.2	.0	.14	.21	.33	.45	.56	.69	.83	1.00	1.23	1.61	1.96
Dec	.81	.63	.90+	1969	25	3.03	1983	.03	1976	5.4	2.6	.4	.0	.05	.10	.20	.31	.43	.57	.75	.97	1.29	1.82	2.35
Ann	8.84	8.22	1.63	Nov 1950	18	6.16	May 1987	.00+	Oct 1999	54.7	27.0	3.1	.2	4.93	5.62	6.53	7.26	7.91	8.57	9.25	10.02	10.98	12.40	13.66

+ 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: 1949-2001

(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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[www.ncdc.noaa.gov](http://www.ncdc.noaa.gov)

Station: BEOWAVE, NV

COOP ID: 260795

Climate Division: NV 2

NWS Call Sign:

Elevation: 4,700 Feet

Lat: 40°35N

Lon: 116°28W

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	5.3	1.8	1	#	8.0	1993	7	24.5	1996	18	1993	12	13	1993	2.4	2.1	.8	.2	.0	8.9	5.4	2.9	1.5
Feb	3.4	2.3	1	0	6.0	1978	11	13.6	1978	11	1993	3	9	1993	1.6	1.2	.3	.1	.0	4.2	2.9	2.3	.6
Mar	2.0	1.5	#	0	5.0	1998	6	9.0	1998	9	1993	1	2	1993	.9	.8	.2	@	.0	.7	.6	.5	.0
Apr	1.2	.0	#	0	5.0	1984	1	6.5	1982	2	1982	1	#+	1982	.4	.4	.2	@	.0	.1	.0	.0	.0
May	.1	.0	0	0	2.4	1988	29	2.4	1988	0	0	0	0	0	.1	@	.0	.0	.0	.0	.0	.0	.0
Jun	.0	.0	#	0	.0	0	0	.0	0	3	1995	6	#	1995	.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	.3	.0	#	0	5.0	1984	17	6.5	1984	4	1991	29	#+	1991	.2	.1	@	@	.0	.2	.1	.0	.0
Nov	1.3	.3	#	0	5.0	1996	17	7.0	1996	3+	1994	21	1	1994	.9	.6	.1	@	.0	1.1	.2	.0	.0
Dec	4.4	3.0	1	0	9.0	1971	26	15.0	1971	9	1992	30	3	1992	1.7	1.4	.5	.2	.0	4.3	3.0	1.8	.0
Ann	18.0	8.9	N/A	N/A	9.0	Dec 1971	26	24.5	Jan 1996	18	Jan 1993	12	13	Jan 1993	8.2	6.6	2.1	.5	.0	19.5	12.2	7.5	2.1

+ 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: BEOWAWE, NV**

**COOP ID: 260795**

**Climate Division: NV 2**

**NWS Call Sign:**

**Elevation: 4,700 Feet**

**Lat: 40°35N**

**Lon: 116°28W**

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	7/10	7/04	6/29	6/25	6/21	6/18	6/14	6/09	6/03
32	6/17	6/11	6/07	6/04	5/31	5/28	5/25	5/20	5/15
28	6/10	6/04	5/30	5/26	5/22	5/19	5/15	5/10	5/04
24	5/19	5/13	5/09	5/05	5/02	4/28	4/25	4/20	4/14
20	5/13	5/04	4/28	4/23	4/18	4/13	4/08	4/01	3/24
16	4/28	4/16	4/07	3/30	3/23	3/16	3/08	2/27	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	8/18	8/23	8/27	8/30	9/02	9/05	9/08	9/11	9/17
32	8/30	9/04	9/08	9/12	9/15	9/18	9/22	9/26	10/01
28	9/07	9/12	9/16	9/19	9/23	9/26	9/29	10/03	10/08
24	9/20	9/26	9/30	10/04	10/07	10/11	10/14	10/18	10/24
20	9/29	10/05	10/10	10/14	10/18	10/21	10/25	10/30	11/05
16	10/10	10/17	10/22	10/26	10/30	11/03	11/08	11/13	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	96	88	82	76	71	67	61	55	47
32	129	121	115	110	106	101	96	91	83
28	146	138	132	127	122	118	113	107	98
24	187	177	170	163	158	152	146	138	128
20	213	202	195	188	182	176	169	162	151
16	264	249	239	229	221	212	203	192	178

\* 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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No. 20  
1971-2000**

**Station: BEOVAWE, NV**

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**NWS Call Sign:**

**Elevation: 4,700 Feet    Lat: 40° 35N    Lon: 116° 28W**

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	1149	858	748	547	335	134	27	44	185	497	836	1131	6491
60	994	718	593	402	221	68	8	14	97	349	686	976	5126
57	901	634	500	320	166	41	2	6	59	268	596	883	4376
55	845	578	439	268	133	28	1	3	40	219	538	821	3913
50	700	447	296	158	67	9	0	0	12	117	400	676	2882
32	269	96	16	1	0	0	0	0	0	1	66	233	682

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	143	162	291	445	719	962	1224	1178	857	528	221	125	6855
55	6	0	1	22	139	299	512	468	207	33	2	0	1689
57	0	0	0	14	109	252	451	409	167	20	0	0	1422
60	0	0	0	6	72	190	364	324	114	8	0	0	1078
65	0	0	0	1	31	106	228	199	52	1	0	0	618
70	0	0	0	0	11	47	125	107	18	0	0	0	308

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	6	29	96	223	455	711	972	917	610	283	52	9	6	35	131	354	809	1520	2492	3409	4019	4302	4354	4363
45	0	5	33	120	316	561	817	762	463	164	15	0	0	5	38	158	474	1035	1852	2614	3077	3241	3256	3256
50	0	0	4	49	195	415	662	607	319	79	2	0	0	0	4	53	248	663	1325	1932	2251	2330	2332	2332
55	0	0	0	13	103	278	507	453	196	26	0	0	0	0	0	13	116	394	901	1354	1550	1576	1576	1576
60	0	0	0	1	41	160	352	304	94	3	0	0	0	0	0	1	42	202	554	858	952	955	955	955
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	12	40	102	199	333	469	592	575	444	281	71	11	12	52	154	353	686	1155	1747	2322	2766	3047	3118	3129

(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](http://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](http://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"><li>a. Temperature/ Precipitation Tables<ol style="list-style-type: none"><li>1. 1971-2000 Monthly Normals</li><li>2. Cooperative Summary of the Day</li><li>3. National Weather Service station records</li><li>4. 1971-2000 serially complete daily data</li></ol></li><li>b. Degree Day Table<ol style="list-style-type: none"><li>1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals</li><li>2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data</li></ol></li></ol> | <ol style="list-style-type: none"><li>c. Snow Tables<ol style="list-style-type: none"><li>1. Snow Climatology</li><li>2. Cooperative Summary of the Day</li></ol></li><li>d. Freeze Data Table<br/>1971-2000 serially complete daily data</li></ol> |
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## References

U.S. Climate Normals 1971-2000, [www.ncdc.noaa.gov/normal.html](http://www.ncdc.noaa.gov/normal.html)  
U.S. Climate Normals 1971-2000-Products Clim20, [www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html)  
Snow Climatology Project Description, [www.ncdc.noaa.gov/oa/climate/monitoring/snowclim/mainpage.html](http://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](http://www1.ncdc.noaa.gov/pub/data/special/serialcomplete_jam_0900.pdf)