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: RUBY LAKE, NV **COOP ID: 267123**

Climate Division: NV 2 **NWS Call Sign:** **Elevation: 6,010 Feet** **Lat: 40˚12N** **Lon: 115˚30W**

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	38.8	13.8	26.3	62+	1951	25	33.3	1998	-26+	1949	25	16.5	1989	1200	0	.0	.0	4.1	6.4	29.4	4.0
Feb	42.4	17.6	30.0	69	1977	16	38.6	1995	-23	1989	6	20.2	1993	980	0	.0	.0	7.1	3.6	26.4	1.9
Mar	48.7	24.5	36.6	73	1966	31	42.7	1986	-10	1952	3	31.6	1977	881	0	.0	.0	16.3	.7	25.3	.1
Apr	56.2	30.6	43.4	81	1981	30	49.8	1992	9	1955	2	34.7	1975	650	0	.0	.0	22.8	.1	18.7	.0
May	65.9	38.3	52.1	94	1981	1	57.9	1992	14	1965	6	44.2	1977	407	6	.0	@	29.3	.0	6.9	.0
Jun	77.3	45.5	61.4	96	1961	21	66.7	1985	25	1973	18	55.8	1995	161	54	.0	2.8	29.8	.0	.9	.0
Jul	86.2	52.0	69.1	100	1998	18	72.0	1985	34	1976	1	64.3	1982	22	150	@	11.1	31.0	.0	.0	.0
Aug	84.7	49.6	67.2	102	1969	12	70.9	1986	28	1960	23	63.0	1976	39	106	.0	7.9	31.0	.0	.1	.0
Sep	75.1	41.0	58.1	93+	1950	1	62.6	1990	18+	1965	18	52.5	1982	224	16	.0	.5	29.7	.0	3.5	.0
Oct	63.5	30.5	47.0	86	1996	10	53.4	1988	3	1991	31	42.0	1984	558	0	.0	.0	27.5	.2	17.9	.0
Nov	48.4	22.1	35.3	74	1980	5	42.1	1995	-14	1964	19	26.3	1994	893	0	.0	.0	14.4	2.0	25.5	.4
Dec	39.8	14.4	27.1	67	1958	3	34.4	1977	-29	1990	23	17.7	1990	1176	0	.0	.0	5.5	5.8	29.3	2.6
Ann	60.6	31.7	46.1	102	Aug 1969	12	72.0	Jul 1985	-29	Dec 1990	23	16.5	Jan 1989	7191	332	@	22.3	248.5	18.8	183.9	9.0

\+ 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

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: RUBY LAKE, NV

COOP ID: 267123

Climate Division: NV 2 **NWS Call Sign:** **Elevation: 6,010 Feet** **Lat: 40˚12N** **Lon: 115˚30W**

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	1.55	1.18	2.60	1979	11	4.31	1996	.10	1984
Feb	1.16	1.04	1.37	1980	18	3.08	1986	.08	1988
Mar	1.45	1.33	1.23	1960	28	3.32	1978	.24	1988
Apr	1.16	1.01	1.54	1963	27	3.47	1997	.07	1992
May	1.46	1.01	1.62	1957	20	5.02	1980	.15	1974
Jun	.82	.60	1.62	1984	6	4.10	1997	.00+	1994
Jul	.44	.28	1.11	1965	20	1.97	1975	.00	1999
Aug	.72	.48	1.61	1977	18	2.92	1983	.00+	1996
Sep	.96	.61	1.97	1978	6	4.98	1982	.00+	1987
Oct	1.20	1.16	1.33	1976	2	2.92	1984	.05+	1999
Nov	1.42	1.37	1.45	1950	19	2.98	1983	.00	1976
Dec	1.32	.89	2.28	1995	30	5.56	1983	.00	1976
Ann	13.66	12.27	2.60	Jan 1979	11	5.56	Dec 1983	.00+	Jul 1999

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	8.7	4.7	.5	.2
Feb	8.3	3.7	.3	.1
Mar	9.8	4.6	.6	.1
Apr	8.3	3.9	.4	@
May	8.6	4.4	.6	.1
Jun	5.3	2.5	.3	@
Jul	3.9	1.4	.1	@
Aug	4.3	2.1	.3	@
Sep	5.1	2.4	.5	.1
Oct	5.5	3.1	.6	.1
Nov	7.4	4.1	.8	.1
Dec	7.0	3.6	.5	.1
Ann	82.2	40.5	5.5	.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	.20	.32	.54	.76	.99	1.24	1.53	1.90	2.39	3.19	3.97
Feb	.26	.36	.53	.69	.84	1.01	1.19	1.41	1.70	2.17	2.60
Mar	.34	.48	.69	.88	1.07	1.27	1.49	1.76	2.11	2.66	3.18
Apr	.18	.28	.45	.61	.78	.96	1.17	1.42	1.76	2.32	2.85
May	.18	.30	.50	.70	.92	1.16	1.44	1.78	2.25	3.02	3.76
Jun	.00	.04	.16	.28	.41	.57	.77	1.01	1.35	1.92	2.49
Jul	.00	.02	.07	.13	.19	.28	.39	.52	.72	1.07	1.42
Aug	.00	.05	.16	.27	.39	.53	.69	.89	1.17	1.64	2.10
Sep	.00	.03	.13	.27	.42	.61	.85	1.15	1.59	2.35	3.11
Oct	.09	.16	.32	.48	.66	.88	1.13	1.46	1.91	2.66	3.41
Nov	.17	.35	.59	.79	1.00	1.22	1.46	1.75	2.14	2.76	3.35
Dec	.02	.10	.26	.44	.65	.90	1.21	1.60	2.15	3.09	4.03
Ann	7.42	8.51	9.97	11.12	12.18	13.22	14.32	15.57	17.12	19.42	21.47

\+ 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

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Services

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: RUBY LAKE, NV **COOP ID: 267123**

Climate Division: NV 2 **NWS Call Sign:** **Elevation: 6,010 Feet** **Lat: 40°12N** **Lon: 115°30W**

Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	11.8	8.4	4	3
Feb	8.7	5.8	5	4
Mar	6.8	4.8	1	#
Apr	4.3	1.8	#	0
May	1.2	.0	#	0
Jun	#	.0	#	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.2	.0	#	0
Oct	1.2	.0	#	0
Nov	5.6	4.5	1	#
Dec	7.0	5.1	2	1
Ann	46.8	30.4	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	14.8	1996	25	43.2	1993	34	1993	11	17	1982
Feb	9.0	1990	18	25.4	1993	25	1993	28	18	1993
Mar	8.0	1991	15	23.0	1983	26	1993	3	11	1993
Apr	7.0	1983	11	28.8	1999	7	1999	6	1	1999
May	6.0	1971	4	9.0	1999	6	1971	4	#+	2000
Jun	#	1998	16	#+	1998	#+	1998	16	#+	1998
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	5.0	1982	30	5.0	1982	#+	2000	23	#+	2000
Oct	5.5	1971	1	10.0	1971	9	1984	17	1	1998
Nov	10.0	1975	29	14.4	1988	10	1994	20	5	1994
Dec	8.5	1988	24	24.3	1996	15	1984	19	10	1984
Ann	14.8	Jan 1996	25	43.2	Jan 1993	34	Jan 1993	11	18	Feb 1993

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	5.3	3.8	1.5	.6	.1
Feb	5.3	3.2	1.0	.2	.0
Mar	3.2	2.1	.9	.3	.0
Apr	2.5	1.6	.4	.2	.0
May	.7	.5	.2	.1	.0
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.1	@	@	@	.0
Oct	.8	.6	.1	@	.0
Nov	3.1	2.0	.8	.2	@
Dec	4.0	2.5	.9	.4	.0
Ann	25.0	16.3	5.8	2.0	.1

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	12.6	8.2	5.7	2.2
Feb	12.5	7.8	5.8	3.1
Mar	5.1	2.3	1.7	1.0
Apr	1.5	.2	.1	.0
May	.3	.2	@	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.6	.1	.1	.0
Nov	4.5	2.3	1.0	.1
Dec	12.0	4.6	3.2	.4
Ann	49.1	25.7	17.6	6.8

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

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: RUBY LAKE, NV **COOP ID: 267123**

Climate Division: NV 2 **NWS Call Sign:** **Elevation: 6,010 Feet** **Lat: 40˚12N** **Lon: 115˚30W**

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	6/27	6/22	6/19	6/15	6/12	6/10	6/06	6/03	5/29
32	6/21	6/15	6/11	6/07	6/04	6/01	5/28	5/24	5/18
28	6/04	5/28	5/23	5/19	5/15	5/11	5/07	5/02	4/25
24	5/07	5/03	4/29	4/27	4/24	4/22	4/19	4/16	4/11
20	4/27	4/20	4/15	4/10	4/06	4/02	3/29	3/23	3/16
16	4/10	4/02	3/28	3/23	3/18	3/14	3/09	3/03	2/23

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	8/24	8/29	9/02	9/04	9/07	9/10	9/13	9/16	9/21
32	9/01	9/06	9/10	9/14	9/17	9/20	9/24	9/28	10/03
28	9/18	9/23	9/27	9/29	10/02	10/05	10/08	10/11	10/16
24	9/24	9/29	10/02	10/05	10/08	10/11	10/14	10/18	10/23
20	10/04	10/10	10/14	10/17	10/21	10/24	10/28	11/01	11/06
16	10/19	10/25	10/29	11/02	11/05	11/08	11/12	11/16	11/21

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	108	101	95	90	86	82	77	71	64
32	130	121	115	109	104	99	94	87	79
28	166	157	150	145	140	134	129	122	113
24	186	179	174	170	166	163	158	154	147
20	222	213	207	202	197	192	186	180	171
16	263	252	244	237	231	225	218	210	199

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

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: RUBY LAKE, NV **COOP ID: 267123**

Climate Division: NV 2 **NWS Call Sign:** **Elevation: 6,010 Feet** **Lat: 40˚12N** **Lon: 115˚30W**

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	1200	980	881	650	407	161	22	39	224	558	893	1176	7191
60	1045	840	726	504	270	80	3	7	116	405	743	1021	5760
57	952	756	633	419	200	47	1	2	69	317	653	928	4977
55	890	700	571	365	160	31	0	1	46	263	593	866	4486
50	735	560	420	243	81	9	0	0	12	146	448	711	3365
32	250	144	48	17	0	0	0	0	0	2	76	222	759

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	73	88	191	357	623	883	1151	1090	783	467	173	69	5948
55	0	0	0	16	69	224	438	377	139	15	0	0	1278
57	0	0	0	10	48	180	377	317	102	7	0	0	1041
60	0	0	0	4	25	123	286	229	58	2	0	0	727
65	0	0	0	0	6	54	150	106	16	0	0	0	332
70	0	0	0	0	0	17	55	30	2	0	0	0	104

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	4	17	60	177	403	663	919	864	564	275	63	9	4	21	81	258	661	1324	2243	3107	3671	3946	4009	4018
45	0	0	19	85	260	516	764	709	417	155	17	0	0	0	19	104	364	880	1644	2353	2770	2925	2942	2942
50	0	0	0	35	149	372	609	554	278	66	2	0	0	0	0	35	184	556	1165	1719	1997	2063	2065	2065
55	0	0	0	11	69	237	454	400	155	19	0	0	0	0	0	11	80	317	771	1171	1326	1345	1345	1345
60	0	0	0	0	21	126	301	249	67	1	0	0	0	0	0	0	21	147	448	697	764	765	765	765
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	1	22	60	144	278	434	589	557	402	238	64	11	1	23	83	227	505	939	1528	2085	2487	2725	2789	2800

(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.
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