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: ARTHUR 4 NW, NV **COOP ID: 260438**

Climate Division: NV 2 **NWS Call Sign:** **Elevation: 6,300 Feet** **Lat: 40˚47N** **Lon: 115˚11W**

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	35.5	14.7	25.1	59+	1971	30	32.1	1981	-20	1979	30	17.7	1989	1238	0	.0	.0	1.4	10.7	30.3	3.4
Feb	38.7	17.9	28.3	63+	1977	20	35.8	1991	-19	1989	5	20.6	1993	1028	0	.0	.0	2.8	6.1	27.4	1.7
Mar	45.4	23.5	34.5	70+	1972	9	41.1	1972	-5	1969	15	28.2	1977	948	0	.0	.0	9.3	1.9	27.7	.1
Apr	54.2	29.1	41.7	83	1994	20	49.1	1987	5	1999	10	32.8	1975	702	0	.0	.0	20.0	.3	20.3	.0
May	63.4	35.9	49.7	88	1968	28	56.3	1992	13	1965	6	43.3	1977	477	1	.0	.0	28.3	.0	10.0	.0
Jun	73.4	42.7	58.1	92+	1994	25	62.8	1974	25+	1979	7	52.7	1998	232	22	.0	.4	29.6	.0	1.3	.0
Jul	82.2	49.0	65.6	99	2000	31	69.9	1988	26	1966	3	58.7	1993	70	89	.0	2.5	31.0	.0	@	.0
Aug	81.4	48.2	64.8	98	2000	1	68.2	1971	25	1964	29	60.4	1975	81	74	.0	1.3	31.0	.0	.3	.0
Sep	72.1	40.4	56.3	89	1976	4	60.9	1990	16	1965	18	50.9	1986	270	7	.0	.0	29.6	.0	4.0	.0
Oct	60.1	31.7	45.9	88	1970	5	53.9	1988	2	1991	31	39.2	1984	593	0	.0	.0	25.4	.4	16.4	.0
Nov	44.6	21.9	33.3	70+	1965	1	40.4	1995	-17	1964	18	23.7	1994	953	0	.0	.0	10.0	4.0	27.1	.6
Dec	36.2	15.2	25.7	60	1995	1	33.8	1980	-26	1990	23	17.8	1990	1218	0	.0	.0	2.2	9.5	30.4	2.6
Ann	57.3	30.9	44.1	99	Jul 2000	31	69.9	Jul 1988	-26	Dec 1990	23	17.7	Jan 1989	7810	193	.0	4.2	220.6	32.9	195.2	8.4

\+ 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

Issue Date: February 2004

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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	1.60	1.57	1.15+	1951	22	4.48	1980	.10	1976
Feb	1.44	1.26	1.53	1986	17	3.51	1986	.01	1995
Mar	1.47	1.31	1.09	1975	25	3.40	1982	.30	1994
Apr	1.25	1.03	1.05	1999	6	3.86	1986	.10	1992
May	1.60	1.03	1.80	1971	4	5.23	1995	.36	1992
Jun	.94	.62	1.04	1995	3	2.56	1995	.00	1994
Jul	.52	.44	1.24	1970	9	1.41	1984	.00+	2000
Aug	.69	.49	1.20	1984	16	3.49	1983	.00+	1996
Sep	1.08	.71	1.49	1978	6	5.35	1982	.00+	1992
Oct	1.20	.87	1.66	1979	19	3.27	2000	.00	1988
Nov	1.58	1.40	1.63	1950	21	4.27	1983	.22	1993
Dec	1.48	.92	2.27	1964	23	6.21	1983	.00+	1997
Ann	14.85	13.89	2.27	Dec 1964	23	6.21	Dec 1983	.00+	Jul 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	8.0	5.1	.6	.1
Feb	7.5	4.7	.5	@
Mar	9.5	5.2	.4	.1
Apr	7.9	4.2	.4	@
May	7.8	5.0	.7	.1
Jun	5.5	2.9	.3	.1
Jul	3.9	1.7	.2	.0
Aug	4.9	1.9	.2	.1
Sep	5.2	2.8	.6	.1
Oct	5.4	3.4	.5	.1
Nov	7.8	4.6	.9	.1
Dec	7.0	4.3	.6	.1
Ann	80.4	45.8	5.9	.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	.26	.40	.63	.85	1.08	1.32	1.60	1.95	2.41	3.15	3.87
Feb	.16	.27	.47	.67	.89	1.13	1.41	1.76	2.24	3.03	3.80
Mar	.38	.52	.74	.92	1.11	1.30	1.52	1.78	2.11	2.64	3.13
Apr	.25	.36	.54	.71	.88	1.06	1.27	1.52	1.85	2.38	2.88
May	.22	.35	.58	.81	1.04	1.29	1.59	1.95	2.44	3.24	4.01
Jun	.02	.07	.19	.32	.47	.64	.86	1.14	1.53	2.19	2.86
Jul	.00	.06	.16	.24	.32	.42	.52	.64	.82	1.09	1.36
Aug	.00	.05	.16	.27	.38	.51	.66	.85	1.11	1.54	1.96
Sep	.00	.00	.18	.36	.54	.76	1.01	1.34	1.78	2.53	3.27
Oct	.04	.12	.28	.46	.65	.87	1.13	1.47	1.94	2.72	3.50
Nov	.29	.43	.66	.87	1.09	1.33	1.60	1.93	2.37	3.07	3.74
Dec	.00	.05	.22	.43	.67	.96	1.32	1.78	2.44	3.58	4.72
Ann	9.08	10.13	11.51	12.58	13.55	14.49	15.48	16.59	17.95	19.96	21.73

\+ 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)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	10.6	9.5	9	7
Feb	9.4	7.0	9	4
Mar	6.9	4.0	5	1
Apr	2.6	1.0	1	#
May	1.1	.0	#	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	#	0
Oct	1.4	.0	#	0
Nov	7.1	4.0	1	#
Dec	10.1	7.5	4	1
Ann	49.2	33.0	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	7.0	1989	10	28.0	1993	45	1993	23	37	1993
Feb	9.0	1978	10	29.5	1978	47	1993	27	41	1993
Mar	8.0	1985	2	22.5	1982	47	1993	4	30	1984
Apr	13.0	1999	6	16.0	1999	27	1984	1	11	1984
May	8.0	1980	11	12.0	1980	8	1980	11	1	1980
Jun	.0	0	0	.0	0	0	0	0	0	0
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	.5	1978	17	1.0	1978	1	1978	18	#	1978
Oct	12.0	1971	31	12.0	1971	12	1971	31	1+	1991
Nov	14.0	1994	5	27.0	1983	25	1983	30	9	1983
Dec	13.0	1996	5	34.0	1983	34	1983	29	25	1983
Ann	14.0	Nov 1994	5	34.0	Dec 1983	47+	Mar 1993	4	41	Feb 1993

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	4.9	4.2	1.4	.5	.0
Feb	3.7	3.2	1.0	.4	.0
Mar	3.0	2.8	.8	.2	.0
Apr	1.1	1.0	.2	.1	@
May	.3	.2	.1	.1	.0
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.1	.0	.0	.0	.0
Oct	.6	.5	.2	.1	@
Nov	2.9	2.4	.7	.3	.1
Dec	3.5	3.2	1.4	.4	@
Ann	20.1	17.5	5.8	2.1	.1

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	26.4	23.1	20.3	14.7
Feb	19.8	17.6	16.1	12.5
Mar	13.8	11.1	9.2	6.9
Apr	3.3	2.6	2.0	1.0
May	.4	.2	@	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.1	.0	.0	.0
Oct	1.1	.6	.3	.1
Nov	9.1	5.9	3.7	.8
Dec	18.0	14.9	12.1	8.9
Ann	92.0	76.0	63.7	44.9

+ 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	7/16	7/09	7/05	7/01	6/27	6/24	6/20	6/15	6/09
32	6/24	6/18	6/13	6/10	6/07	6/03	5/31	5/26	5/21
28	6/16	6/09	6/03	5/30	5/26	5/22	5/17	5/12	5/05
24	5/21	5/16	5/12	5/09	5/06	5/03	4/30	4/26	4/21
20	5/09	4/30	4/24	4/19	4/14	4/09	4/04	3/29	3/20
16	4/22	4/14	4/09	4/04	3/31	3/26	3/22	3/16	3/08

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	8/13	8/20	8/25	8/30	9/03	9/07	9/11	9/16	9/23
32	8/23	8/29	9/03	9/07	9/11	9/15	9/20	9/24	10/01
28	9/10	9/16	9/20	9/24	9/28	10/01	10/05	10/09	10/15
24	9/18	9/25	10/01	10/05	10/09	10/14	10/18	10/23	10/31
20	10/08	10/13	10/17	10/21	10/24	10/27	10/30	11/03	11/08
16	10/13	10/20	10/25	10/29	11/02	11/06	11/11	11/16	11/23

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	98	87	80	73	67	61	54	46	35
32	120	112	106	101	96	91	86	80	72
28	153	143	136	130	124	119	113	105	96
24	184	174	167	161	156	150	144	137	127
20	220	211	204	198	192	186	180	173	164
16	249	237	229	222	216	209	203	194	183

***** 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)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	1238	1028	948	702	477	232	70	81	270	593	953	1218	7810
60	1083	888	793	554	331	127	19	23	147	439	803	1063	6270
57	990	804	700	469	250	80	8	9	91	352	713	970	5436
55	928	748	638	414	202	56	3	3	62	297	653	908	4912
50	773	608	486	286	106	17	0	0	18	177	508	753	3732
32	258	168	79	28	1	0	0	0	0	6	111	245	896

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	43	64	154	316	547	781	1042	1016	727	436	148	51	5325
55	0	0	0	13	35	146	332	307	99	14	0	0	946
57	0	0	0	8	21	111	274	250	68	7	0	0	739
60	0	0	0	3	10	68	193	171	34	2	0	0	481
65	0	0	0	0	1	22	89	74	7	0	0	0	193
70	0	0	0	0	0	5	26	19	0	0	0	0	50

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	1	5	32	127	322	562	803	780	497	229	34	0	1	6	38	165	487	1049	1852	2632	3129	3358	3392	3392
45	0	0	2	55	196	418	648	625	353	123	8	0	0	0	2	57	253	671	1319	1944	2297	2420	2428	2428
50	0	0	0	17	103	273	494	470	219	47	0	0	0	0	0	17	120	393	887	1357	1576	1623	1623	1623
55	0	0	0	1	37	157	339	318	105	12	0	0	0	0	0	1	38	195	534	852	957	969	969	969
60	0	0	0	0	7	65	196	174	34	0	0	0	0	0	0	0	7	72	268	442	476	476	476	476
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	4	32	106	226	371	528	516	343	185	36	0	0	4	36	142	368	739	1267	1783	2126	2311	2347	2347

(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