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: DAVENPORT, WA **COOP ID: 452007**

Climate Division: WA 7 **NWS Call Sign:** **Elevation: 2,440 Feet** **Lat: 47˚39N** **Lon: 118˚09W**

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	31.1	18.6	24.9	52+	1967	30	34.1	1994	-28	1996	31	11.1	1979	1246	0	.0	.0	.1	15.5	29.1	2.5
Feb	37.3	23.0	30.2	60	1995	21	38.5	1991	-25	1950	1	19.2	1985	976	0	.0	.0	2.1	7.0	25.4	1.1
Mar	47.5	28.4	38.0	73	1960	22	43.0	1992	-9	1989	3	30.8	1985	838	0	.0	.0	12.4	.8	23.8	.0
Apr	57.2	32.8	45.0	90	1977	24	49.9	1987	18+	1992	8	41.0	1972	601	0	.0	@	24.9	.0	15.5	.0
May	65.8	39.4	52.6	94+	1986	31	58.4	1993	20+	1996	8	48.0	1996	387	3	.0	.2	30.4	.0	5.6	.0
Jun	73.3	45.0	59.2	99	1992	24	65.6	1992	27+	1991	4	54.7	1981	202	27	.0	1.4	29.9	.0	.8	.0
Jul	81.9	49.6	65.8	103	1960	18	71.9	1998	29	1986	16	59.2	1993	85	108	.5	7.3	31.0	.0	@	.0
Aug	82.8	49.7	66.3	103+	1977	3	71.2	1977	29	1966	28	60.6	1995	81	120	.4	8.1	31.0	.0	.1	.0
Sep	72.8	41.8	57.3	100	1967	1	62.8+	1998	20+	2000	23	50.6	1985	266	35	.0	1.1	29.7	.0	3.1	.0
Oct	59.1	32.4	45.8	86	1992	2	51.8	1988	10+	1984	31	40.9	1984	596	0	.0	.0	26.1	.1	15.9	.0
Nov	40.7	26.7	33.7	68	1975	5	38.9	1999	-22	1985	23	20.8	1985	940	0	.0	.0	4.2	4.5	23.1	.4
Dec	31.5	19.0	25.3	55	1980	27	32.5	1973	-23+	1983	23	14.4	1983	1232	0	.0	.0	.3	15.8	28.8	2.1
Ann	56.8	33.9	45.3	103+	Aug 1977	3	71.9	Jul 1998	-28	Jan 1996	31	11.1	Jan 1979	7450	293	.9	18.1	222.1	43.7	171.2	6.1

\+ 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	1.45	1.38	1.35	1966	1	3.16	1995	.32	1985
Feb	1.22	1.19	1.00	1970	16	2.57	1983	.09	1988
Mar	1.30	1.19	.89	1950	5	3.22	1995	.19	1999
Apr	1.02	.91	1.34	2000	14	2.50	1978	.07	1977
May	1.41	1.30	1.30	1953	24	2.72	1980	.10	1982
Jun	1.03	1.06	1.44	1958	24	2.25	1995	.06	1986
Jul	.78	.46	1.33	1990	25	3.58	1993	.00+	1994
Aug	.54	.45	.99	1956	27	1.41	1972	.00+	2000
Sep	.65	.64	1.28	1954	17	1.69	1977	.00	1990
Oct	.88	.81	.87	1970	6	2.93	1996	.00	1978
Nov	1.90	1.67	1.00	1968	11	5.59	1973	.17	1976
Dec	1.93	1.86	1.20	1965	27	4.48	1973	.32	1989
Ann	14.11	13.99	1.44	Jun 1958	24	5.59	Nov 1973	.00+	Aug 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	7.7	5.0	.5	.0
Feb	6.9	4.1	.3	.0
Mar	8.0	4.4	.3	.0
Apr	6.3	3.5	.2	@
May	7.6	4.5	.6	@
Jun	6.9	3.4	.3	.0
Jul	4.0	2.1	.4	.1
Aug	3.4	1.7	.2	.0
Sep	4.5	2.3	.2	.0
Oct	5.3	2.8	.3	.0
Nov	10.2	6.4	.7	.0
Dec	9.2	6.0	.8	.0
Ann	80.0	46.2	4.8	.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	.41	.55	.76	.94	1.12	1.30	1.50	1.75	2.06	2.55	3.00
Feb	.25	.36	.54	.70	.87	1.04	1.24	1.48	1.79	2.30	2.77
Mar	.29	.41	.60	.78	.95	1.13	1.34	1.58	1.90	2.42	2.90
Apr	.20	.29	.44	.58	.72	.87	1.04	1.24	1.52	1.96	2.38
May	.40	.54	.74	.91	1.08	1.26	1.46	1.69	2.00	2.47	2.91
Jun	.24	.33	.48	.62	.75	.89	1.05	1.24	1.50	1.90	2.27
Jul	.00	.04	.15	.27	.40	.55	.73	.96	1.28	1.82	2.35
Aug	.00	.00	.08	.18	.28	.39	.52	.68	.91	1.26	1.62
Sep	.01	.06	.14	.23	.33	.45	.60	.79	1.05	1.50	1.94
Oct	.04	.11	.24	.37	.51	.66	.85	1.08	1.40	1.94	2.46
Nov	.37	.54	.82	1.08	1.34	1.62	1.94	2.32	2.82	3.63	4.40
Dec	.46	.64	.92	1.17	1.42	1.69	1.99	2.34	2.80	3.54	4.23
Ann	9.58	10.44	11.56	12.41	13.17	13.91	14.67	15.52	16.55	18.06	19.37

\+ 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:
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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	8.7	8.6	6	4
Feb	5.8	5.0	4	2
Mar	1.7	.3	#	#
Apr	.3	.0	#	0
May	#	.0	#	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	.3	.0	#	0
Nov	5.2	2.8	1	#
Dec	11.8	11.0	3	2
Ann	33.8	27.7	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	1972	25	20.5	1982	23	1993	25	21	1993
Feb	12.0	1990	16	21.3	1975	27	1975	10	19	1985
Mar	5.0	1978	1	5.5	1978	16	1985	3	6	1985
Apr	3.0	1975	5	3.0	1975	3	1975	5	#+	1999
May	#	1975	4	#+	1975	#	1975	4	#	1975
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	.0	0	0	.0	0	0	0	0	0	0
Oct	3.0	1996	19	3.0	1996	1	1985	7	#+	1991
Nov	9.5	1973	5	28.3	1973	14	1985	27	6	1985
Dec	12.0	1992	20	32.7	1971	28	1996	29	14	1996
Ann	12.0+	Dec 1992	20	32.7	Dec 1971	28	Dec 1996	29	21	Jan 1993

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	4.5	3.1	1.3	.3	.0
Feb	2.6	2.0	.8	.2	@
Mar	1.0	.6	.1	@	.0
Apr	.1	.1	@	.0	.0
May	.0	.0	.0	.0	.0
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.0	.0	.0	.0	.0
Oct	.1	.1	@	.0	.0
Nov	2.3	1.9	.7	.2	.0
Dec	4.7	3.8	1.2	.4	.1
Ann	15.3	11.6	4.1	1.1	.1

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	12.1	9.6	7.2	3.8
Feb	3.1	.9	.1	.0
Mar	.9	.3	.1	.0
Apr	.1	@	.0	.0
May	.0	.0	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	@	.0	.0	.0
Nov	2.9	2.1	1.5	.6
Dec	6.5	2.3	.4	.0
Ann	25.6	15.2	9.3	4.4

+ 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	7/15	7/09	7/04	7/01	6/27	6/23	6/20	6/15	6/09
32	6/21	6/14	6/09	6/05	6/01	5/28	5/24	5/19	5/13
28	5/24	5/18	5/14	5/10	5/07	5/03	4/29	4/25	4/19
24	5/11	5/03	4/27	4/22	4/18	4/13	4/08	4/03	3/26
20	4/25	4/13	4/05	3/29	3/22	3/16	3/08	2/28	2/16
16	3/11	3/04	2/26	2/22	2/18	2/13	2/09	2/04	1/27

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	8/15	8/21	8/25	8/29	9/02	9/05	9/09	9/13	9/19
32	9/03	9/09	9/13	9/17	9/20	9/24	9/28	10/02	10/08
28	9/13	9/19	9/23	9/27	9/30	10/04	10/08	10/12	10/18
24	9/28	10/05	10/09	10/13	10/17	10/20	10/24	10/29	11/04
20	10/07	10/16	10/22	10/27	11/01	11/06	11/11	11/17	11/26
16	10/20	10/29	11/04	11/10	11/15	11/20	11/25	12/01	12/10

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	90	82	76	71	66	61	56	50	42
32	135	126	120	115	110	106	101	95	86
28	176	166	158	152	146	140	134	126	116
24	213	202	194	187	181	175	168	160	149
20	268	253	241	232	223	214	205	194	178
16	309	295	285	277	269	262	253	244	230

***** 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	1246	976	838	601	387	202	85	81	266	596	940	1232	7450
60	1091	836	683	451	246	105	29	29	162	443	790	1077	5942
57	998	752	590	362	173	62	13	14	112	352	700	984	5112
55	936	696	528	305	132	40	7	7	84	294	640	922	4591
50	781	561	377	175	54	11	0	1	34	165	498	768	3425
32	298	163	31	1	0	0	0	0	0	2	112	292	899

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	76	111	217	390	639	815	1047	1062	759	429	163	82	5790
55	0	0	0	4	57	165	341	356	153	8	0	0	1084
57	0	0	0	2	36	127	285	301	121	4	0	0	876
60	0	0	0	0	16	80	207	223	81	1	0	0	608
65	0	0	0	0	3	27	108	120	35	0	0	0	293
70	0	0	0	0	0	6	41	49	12	0	0	0	108

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	0	6	50	177	402	582	808	824	530	214	25	0	0	6	56	233	635	1217	2025	2849	3379	3593	3618	3618
45	0	0	10	85	262	433	653	669	382	107	5	0	0	0	10	95	357	790	1443	2112	2494	2601	2606	2606
50	0	0	0	35	144	292	499	514	249	46	0	0	0	0	0	35	179	471	970	1484	1733	1779	1779	1779
55	0	0	0	9	70	169	349	365	142	13	0	0	0	0	0	9	79	248	597	962	1104	1117	1117	1117
60	0	0	0	2	28	82	215	227	65	3	0	0	0	0	0	2	30	112	327	554	619	622	622	622
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	1	31	124	261	365	512	526	349	161	6	0	0	1	32	156	417	782	1294	1820	2169	2330	2336	2336

(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