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: EVERETT, WA **COOP ID: 452675**

Climate Division: WA 3 **NWS Call Sign:** **Elevation: 60 Feet** **Lat: 47˚59N** **Lon: 122˚12W**

Temperature (˚F)

Month	Mean (1) Daily Max	Mean (1) Daily Min	Mean (1) Mean	Extremes Highest Daily(2)	Year	Day	Highest Month(1) Mean	Year	Lowest Daily(2)	Year	Day	Lowest Month(1) Mean	Year	Degree Days (1) Base Temp 65 Heating	Cooling	Mean Number of Days (3) Max >= 100	Max >= 90	Max >= 50	Max <= 32	Min <= 32	Min <= 0
Jan	45.8	33.6	39.7	67	1986	13	44.8	1986	1	1950	18	32.8	1979	784	0	.0	.0	8.8	.7	12.2	.0
Feb	49.3	34.9	42.1	74	1986	28	47.4	1991	2	1950	1	33.9	1989	641	0	.0	.0	13.6	.3	9.8	.0
Mar	53.3	37.3	45.3	76	1986	21	48.5	1992	10	1955	4	40.4	1971	611	0	.0	.0	23.5	.1	6.8	.0
Apr	58.2	41.2	49.7	85	1984	15	52.6	1989	27	1951	20	44.4	1975	460	0	.0	.0	28.2	.0	1.7	.0
May	63.8	46.3	55.1	88	1953	6	59.9	1993	29	1954	1	51.4	1974	308	0	.0	.0	30.8	.0	.0	.0
Jun	68.4	51.0	59.7	98	1955	9	63.2	1978	37	1952	13	56.2	1971	169	10	.0	.0	30.0	.0	.0	.0
Jul	73.0	54.2	63.6	93	1958	7	67.7	1998	39	1972	8	60.3	1986	90	46	.0	.3	31.0	.0	.0	.0
Aug	73.9	53.9	63.9	94	1960	10	67.7	1977	40+	1987	23	59.8	1973	90	55	.0	.1	31.0	.0	.0	.0
Sep	68.7	48.8	58.8	89	1986	7	61.6+	1995	31	1992	6	54.8	1972	198	10	.0	.0	30.0	.0	@	.0
Oct	59.7	42.5	51.1	80+	1992	24	54.1	1988	22+	1971	29	46.9	1972	430	0	.0	.0	29.8	.0	1.7	.0
Nov	50.6	37.4	44.0	74	1981	2	48.1	1995	0+	1993	28	36.0	1985	630	0	.0	.0	17.8	.3	7.5	.2
Dec	45.2	34.0	39.6	66	1980	16	45.0	1980	5	1964	17	32.9	1983	788	0	.0	.0	8.5	1.2	12.5	.0
Ann	59.2	42.9	51.1	98	Jun 1955	9	67.7+	Jul 1998	0+	Nov 1993	28	32.8	Jan 1979	5199	121	.0	.4	283.0	2.6	52.2	.2

+ 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

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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	4.37	4.23	2.33	1986	18	9.77	1971	.54	1985
Feb	3.41	3.36	1.50	1991	4	6.57	1999	.40	1993
Mar	3.86	4.02	1.25	1990	8	6.08	1997	.87	1996
Apr	2.96	2.84	1.40	1967	28	5.30	1972	1.21	1989
May	2.57	2.43	1.14	1951	11	6.03	1977	.88	1982
Jun	2.26	2.02	1.72	1981	17	5.35	1983	.48	1979
Jul	1.32	.96	1.60	1954	1	3.57	1993	.09	1985
Aug	1.35	1.12	1.70	1960	26	3.58	1976	.06	1986
Sep	2.09	1.98	1.63	1984	6	5.20	1972	.27	1975
Oct	3.25	3.06	1.95	1990	5	8.53	1975	.08	1987
Nov	5.11	5.22	3.62	1990	25	9.30	1983	.95	1976
Dec	4.99	5.16	1.93	1993	10	7.70	1987	.76	1985
Ann	37.54	37.54	3.62	Nov 1990	25	9.77	Jan 1971	.06	Aug 1986

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	17.4	11.1	2.6	.4
Feb	15.0	10.1	1.7	.1
Mar	18.1	11.1	1.9	.2
Apr	15.1	8.8	1.7	.1
May	13.2	7.7	1.4	.1
Jun	10.1	6.1	1.3	.2
Jul	6.7	3.3	.8	.1
Aug	6.1	3.4	.9	.2
Sep	8.2	5.3	1.2	.3
Oct	13.8	8.5	1.9	.3
Nov	17.5	12.4	3.1	.6
Dec	18.3	12.6	3.0	.6
Ann	159.5	100.4	21.5	3.2

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	1.47	1.88	2.49	3.00	3.49	4.00	4.56	5.21	6.04	7.34	8.53
Feb	1.14	1.46	1.94	2.34	2.72	3.12	3.56	4.07	4.72	5.73	6.67
Mar	1.66	2.01	2.50	2.89	3.27	3.64	4.05	4.51	5.09	5.98	6.79
Apr	1.46	1.72	2.06	2.33	2.58	2.83	3.10	3.41	3.79	4.36	4.87
May	1.06	1.30	1.63	1.90	2.16	2.42	2.70	3.02	3.43	4.05	4.62
Jun	.60	.82	1.15	1.43	1.71	2.01	2.34	2.72	3.23	4.03	4.77
Jul	.17	.27	.46	.64	.84	1.05	1.30	1.61	2.03	2.71	3.38
Aug	.10	.19	.36	.54	.75	.99	1.27	1.64	2.14	2.98	3.82
Sep	.35	.53	.83	1.12	1.41	1.74	2.10	2.55	3.15	4.12	5.05
Oct	.48	.75	1.22	1.67	2.14	2.65	3.25	3.97	4.94	6.53	8.05
Nov	1.76	2.25	2.95	3.54	4.11	4.70	5.33	6.08	7.03	8.50	9.86
Dec	2.02	2.47	3.12	3.66	4.16	4.67	5.23	5.86	6.67	7.91	9.04
Ann	28.86	30.59	32.78	34.42	35.87	37.25	38.68	40.24	42.12	44.82	47.14

\+ 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	4.7	1.8	0	0
Feb	.6	.0	#	0
Mar	#	.0	0	0
Apr	.0	.0	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	0
Nov	1.0	.0	0	0
Dec	1.4	1.0	#	0
Ann	7.7	2.8	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	8.0	1972	25	16.0	1972	8	1972	25	1	1972
Feb	2.5	1971	27	3.0	1971	3	1971	27	#	1971
Mar	#	1971	4	#	1971	0	0	0	0	0
Apr	.0	0	0	.0	0	0	0	0	0	0
May	.0	0	0	.0	0	0	0	0	0	0
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	.0	0	0	.0	0	0	0	0	0	0
Nov	6.0	1985	22	6.0	1985	0	0	0	0	0
Dec	5.0	1972	12	5.0	1972	10	1996	27	1	1971
Ann	8.0	Jan 1972	25	16.0	Jan 1972	10	Dec 1996	27	1+	Jan 1972

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	-9.9	-9.9	-9.9	-9.9	-9.9
Feb	-9.9	-9.9	-9.9	-9.9	-9.9
Mar	-9.9	-9.9	-9.9	-9.9	-9.9
Apr	-9.9	-9.9	-9.9	-9.9	-9.9
May	-9.9	-9.9	-9.9	-9.9	-9.9
Jun	-9.9	-9.9	-9.9	-9.9	-9.9
Jul	-9.9	-9.9	-9.9	-9.9	-9.9
Aug	-9.9	-9.9	-9.9	-9.9	-9.9
Sep	-9.9	-9.9	-9.9	-9.9	-9.9
Oct	-9.9	-9.9	-9.9	-9.9	-9.9
Nov	-9.9	-9.9	-9.9	-9.9	-9.9
Dec	-9.9	-9.9	-9.9	-9.9	-9.9
Ann	-9.9	-9.9	-9.9	-9.9	-9.9

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.2	@	@	.0
Feb	.1	@	.0	.0
Mar	.0	.0	.0	.0
Apr	.0	.0	.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	.0
Nov	.0	.0	.0	.0
Dec	.1	@	.0	.0
Ann	.4	@	@	.0

+ 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	5/14	5/07	5/02	4/27	4/23	4/19	4/15	4/09	4/02
32	4/25	4/19	4/14	4/10	4/06	4/03	3/30	3/25	3/19
28	3/21	3/13	3/08	3/03	2/27	2/22	2/18	2/12	2/05
24	2/25	2/16	2/10	2/05	1/31	1/26	1/21	1/14	1/04
20	2/20	2/08	1/29	1/21	1/12	1/02	12/18	0/00	0/00
16	2/03	1/19	1/06	12/22	0/00	0/00	0/00	0/00	0/00

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	9/26	10/02	10/06	10/10	10/13	10/16	10/20	10/24	10/30
32	10/07	10/13	10/18	10/22	10/26	10/29	11/02	11/07	11/14
28	10/24	11/03	11/10	11/16	11/22	11/27	12/03	12/10	12/20
24	11/10	11/22	12/02	12/09	12/17	12/24	1/02	1/12	1/27
20	11/24	12/08	12/18	12/27	1/06	1/18	2/08	0/00	0/00
16	12/10	12/26	1/09	1/27	0/00	0/00	0/00	0/00	0/00

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	204	193	185	178	172	166	159	151	141
32	232	222	214	208	202	196	189	182	171
28	302	290	281	274	267	260	253	244	232
24	>365	352	338	328	319	310	301	291	277
20	>365	>365	>365	>365	>365	348	328	313	296
16	>365	>365	>365	>365	>365	>365	>365	>365	342

***** 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	784	641	611	460	308	169	90	90	198	430	630	788	5199
60	629	501	456	310	164	65	22	24	87	276	480	633	3647
57	536	417	363	226	95	26	7	9	42	189	393	540	2843
55	474	361	301	173	60	12	2	3	22	138	337	478	2361
50	330	233	160	72	11	0	0	0	2	46	208	334	1396
32	20	7	0	0	0	0	0	0	0	0	7	22	56

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	259	290	412	531	715	831	979	988	802	593	367	257	7024
55	0	0	1	14	62	153	267	278	134	17	7	1	934
57	0	0	0	6	35	107	210	221	94	7	3	0	683
60	0	0	0	1	11	55	133	144	49	1	0	0	394
65	0	0	0	0	0	10	46	55	10	0	0	0	121
70	0	0	0	0	0	0	8	11	1	0	0	0	20

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	81	113	180	299	477	601	742	749	571	353	158	82	81	194	374	673	1150	1751	2493	3242	3813	4166	4324	4406
45	22	36	64	158	322	451	587	594	421	205	68	24	22	58	122	280	602	1053	1640	2234	2655	2860	2928	2952
50	0	2	13	58	178	301	432	439	272	85	13	1	0	2	15	73	251	552	984	1423	1695	1780	1793	1794
55	0	0	0	15	68	158	277	284	137	19	0	0	0	0	0	15	83	241	518	802	939	958	958	958
60	0	0	0	1	16	56	133	142	43	0	0	0	0	0	0	1	17	73	206	348	391	391	391	391
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	18	33	74	134	232	317	434	445	312	165	47	12	18	51	125	259	491	808	1242	1687	1999	2164	2211	2223

(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