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: NEWPORT, WA **COOP ID: 455844**

Climate Division: WA 9 **NWS Call Sign:** **Elevation: 2,135 Feet** **Lat: 48˚11N** **Lon: 117˚03W**

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	33.1	20.0	26.6	56	1990	7	34.1	1981	-41	1950	30	11.9	1979	1193	0	.0	.0	.1	13.4	28.5	2.8
Feb	39.5	22.8	31.2	61	1968	29	37.6	1991	-39	1950	1	21.5	1989	947	0	.0	.0	1.6	4.9	25.4	1.5
Mar	49.8	26.5	38.2	75	1991	31	42.5	1986	-14	1955	4	31.1	1976	832	0	.0	.0	13.4	.4	24.9	.2
Apr	60.5	31.4	46.0	93	1939	28	50.9	1990	6	1936	1	40.4	1999	571	0	.0	.0	25.9	.0	16.8	.0
May	69.4	38.6	54.0	96+	1986	30	59.7	1993	17	1954	1	49.9	1974	343	2	.0	.4	30.6	.0	5.6	.0
Jun	76.3	44.7	60.5	99+	1992	25	65.7	1986	26+	1952	14	57.4	1981	164	28	.0	1.8	30.0	.0	.7	.0
Jul	83.9	48.1	66.0	107+	1941	17	72.1	1985	29	1976	28	60.3	1993	72	102	.5	9.2	31.0	.0	.1	.0
Aug	83.9	46.7	65.3	106+	1961	4	69.9	1981	27	1945	20	59.9	1995	77	87	.2	8.5	31.0	.0	.2	.0
Sep	73.6	39.2	56.4	99	1938	3	62.4	1990	11	1934	25	50.3	1986	279	21	.0	1.0	29.7	.0	4.9	.0
Oct	58.1	32.5	45.3	85+	1943	7	51.5	1988	-1	1935	31	41.8	1991	612	0	.0	.0	24.2	@	16.1	.0
Nov	40.5	27.9	34.2	62+	1988	1	39.5	1999	-14	1955	16	23.0	1985	924	0	.0	.0	3.0	4.6	22.2	.3
Dec	33.0	21.2	27.1	60	1927	2	34.3	1980	-37	1968	30	18.4	1983	1175	0	.0	.0	.2	15.1	28.6	1.7
Ann	58.5	33.3	45.9	107+	Jul 1941	17	72.1	Jul 1985	-41	Jan 1950	30	11.9	Jan 1979	7189	240	.7	20.9	220.7	38.4	174.0	6.5

\+ 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: 1927-2001

(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	2.89	2.66	1.64	1974	15	6.97	1974	.02	1985
Feb	2.44	2.25	1.70	1981	15	5.78	1979	.65	1988
Mar	2.20	1.94	1.37	1950	17	4.28	1983	.61	1996
Apr	1.90	1.95	1.32	1982	11	4.10	1993	.29	1977
May	2.30	1.96	2.90	1984	5	5.73	1984	.76	1992
Jun	1.94	1.93	1.77	1984	21	4.68	1981	.55	1974
Jul	1.34	1.04	1.62	1998	4	5.13	1993	.00+	1985
Aug	1.16	.87	1.29	1978	16	3.56	1976	.00	2000
Sep	1.17	1.14	1.80	1927	11	3.75	1986	.00+	1991
Oct	1.64	1.34	2.10	2000	22	5.22	1996	.08	1974
Nov	3.41	3.42	1.96	1960	20	7.73	1973	.60	1976
Dec	4.02	3.69	5.50	1998	26	11.64	1998	.72	2000
Ann	26.41	25.62	5.50	Dec 1998	26	11.64	Dec 1998	.00+	Aug 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	12.4	7.8	1.9	.2
Feb	10.3	6.7	1.2	.3
Mar	10.6	6.6	1.0	.1
Apr	9.5	5.7	1.0	.1
May	11.2	6.5	1.1	.1
Jun	9.7	5.0	1.1	.2
Jul	6.1	3.6	.9	.2
Aug	5.3	3.1	.7	.1
Sep	5.9	3.4	.5	.1
Oct	8.0	4.6	.9	.1
Nov	13.1	9.0	2.2	.4
Dec	13.9	9.4	2.7	.5
Ann	116.0	71.4	15.2	2.4

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	.54	.80	1.23	1.62	2.01	2.44	2.93	3.52	4.30	5.55	6.74
Feb	.77	1.00	1.34	1.64	1.92	2.22	2.54	2.92	3.41	4.18	4.88
Mar	.71	.92	1.23	1.49	1.74	2.00	2.29	2.62	3.05	3.72	4.34
Apr	.52	.70	.97	1.21	1.44	1.69	1.96	2.29	2.71	3.37	3.98
May	.67	.89	1.21	1.50	1.78	2.06	2.38	2.76	3.24	4.01	4.71
Jun	.60	.78	1.06	1.29	1.52	1.76	2.01	2.32	2.71	3.32	3.89
Jul	.00	.11	.33	.54	.77	1.01	1.30	1.66	2.15	2.96	3.75
Aug	.02	.09	.23	.39	.58	.79	1.06	1.40	1.89	2.71	3.53
Sep	.00	.00	.46	.67	.85	1.04	1.25	1.49	1.79	2.28	2.74
Oct	.18	.31	.54	.77	1.01	1.29	1.61	2.01	2.55	3.45	4.32
Nov	.90	1.22	1.71	2.15	2.57	3.02	3.52	4.11	4.88	6.09	7.23
Dec	1.17	1.55	2.12	2.62	3.11	3.61	4.17	4.83	5.68	7.01	8.25
Ann	18.66	20.16	22.07	23.52	24.81	26.06	27.35	28.78	30.51	33.02	35.19

\+ 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: 1927-2001
(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	15.4	15.6	11	8
Feb	11.9	7.0	11	8
Mar	2.2	1.3	5	1
Apr	.2	.0	1	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	.1	.0	#	0
Nov	6.9	2.0	1	#
Dec	20.0	14.9	6	3
Ann	56.7	40.8	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	10.0	1982	23	27.5	1986	37	1997	20	34	1997
Feb	12.0	1986	15	35.3	1990	34	1997	26	34	1997
Mar	7.0	1997	1	10.6	1985	38	1997	11	28	1997
Apr	2.0	1986	12	2.5	1986	22	1975	4	18	1975
May	#	1985	11	#	1985	#	1984	3	#	1984
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	1.9	1971	31	1.9	1971	2	1971	31	#	1971
Nov	10.0	1984	28	30.4	1973	16	1973	27	5+	1994
Dec	11.0	1992	20	47.7	1984	44	1996	30	32	1996
Ann	12.0	Feb 1986	15	47.7	Dec 1984	44	Dec 1996	30	34+	Feb 1997

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	7.2	4.6	2.4	1.0	@
Feb	4.9	3.4	1.4	.5	.1
Mar	1.7	1.0	.2	.1	.0
Apr	.2	@	.0	.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	@	.0	.0	.0
Nov	2.7	1.7	.7	.3	@
Dec	8.0	5.9	2.7	1.0	.1
Ann	24.8	16.6	7.4	2.9	.2

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	27.3	25.6	24.2	14.6
Feb	19.7	17.7	16.2	10.0
Mar	10.0	8.7	8.3	5.9
Apr	.6	.4	.4	.2
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	4.2	1.9	.9	.5
Dec	22.5	16.9	11.6	6.0
Ann	84.3	71.2	61.6	37.2

+ 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	7/20	7/10	7/03	6/27	6/21	6/16	6/10	6/03	5/24
32	6/26	6/16	6/08	6/02	5/27	5/21	5/15	5/08	4/27
28	5/23	5/17	5/12	5/09	5/05	5/01	4/28	4/23	4/17
24	5/05	4/28	4/23	4/19	4/15	4/11	4/07	4/02	3/26
20	4/20	4/13	4/07	4/02	3/29	3/24	3/19	3/13	3/06
16	3/30	3/22	3/15	3/10	3/05	2/28	2/23	2/16	2/08

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	8/15	8/22	8/26	8/30	9/03	9/07	9/10	9/15	9/21
32	8/31	9/05	9/09	9/12	9/15	9/18	9/22	9/25	10/01
28	9/09	9/16	9/21	9/25	9/29	10/03	10/07	10/12	10/19
24	9/25	10/01	10/06	10/10	10/14	10/18	10/22	10/27	11/02
20	10/07	10/17	10/23	10/29	11/04	11/09	11/15	11/22	12/01
16	10/20	10/30	11/06	11/12	11/18	11/24	11/30	12/07	12/17

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	109	97	88	80	73	66	58	49	36
32	149	136	126	118	110	103	94	85	71
28	179	167	159	153	146	140	133	125	114
24	211	201	193	187	181	176	169	162	152
20	254	242	234	226	219	212	205	197	185
16	294	282	272	265	257	250	242	233	220

***** 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	1193	947	832	571	343	164	72	77	279	612	924	1175	7189
60	1038	807	677	422	204	73	20	23	167	457	774	1020	5682
57	945	723	584	336	135	36	8	10	114	365	684	927	4867
55	883	667	522	282	97	20	4	4	84	305	624	865	4357
50	728	527	371	162	33	3	0	1	32	168	479	710	3214
32	250	113	26	2	0	0	0	0	0	1	93	225	710

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	80	90	217	421	682	854	1053	1033	732	413	159	73	5807
55	0	0	0	11	66	184	343	324	126	3	0	0	1057
57	0	0	0	5	42	140	286	268	96	1	0	0	838
60	0	0	0	1	17	86	205	188	60	0	0	0	557
65	0	0	0	0	2	28	102	87	21	0	0	0	240
70	0	0	0	0	0	5	34	25	6	0	0	0	70

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	1	40	193	439	617	814	798	492	182	19	0	0	1	41	234	673	1290	2104	2902	3394	3576	3595	3595
45	0	0	5	94	291	467	659	643	350	82	2	0	0	0	5	99	390	857	1516	2159	2509	2591	2593	2593
50	0	0	0	37	158	319	504	488	210	27	0	0	0	0	0	37	195	514	1018	1506	1716	1743	1743	1743
55	0	0	0	12	71	191	353	335	103	6	0	0	0	0	0	12	83	274	627	962	1065	1071	1071	1071
60	0	0	0	1	26	87	209	192	36	0	0	0	0	0	0	1	27	114	323	515	551	551	551	551
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	1	39	158	297	398	513	511	351	139	1	0	0	1	40	198	495	893	1406	1917	2268	2407	2408	2408

(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