

Climatology of the United States

No. 20

1971-2000

Station: LONGVIEW, WA

COOP ID: 454769

Climate Division: WA 4

NWS Call Sign:

Elevation: 12 Feet

Lat: 46°09N

Lon: 122°55W

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	45.9	33.8	39.9	65	1931	28	44.4	1994	1	1950	31	31.6	1979	780	0	.0	.0	9.2	.7	12.2	.0
Feb	50.4	35.1	42.8	73	1968	28	48.1	1991	2	1950	2	35.2	1989	623	0	.0	.0	15.4	.3	9.9	.0
Mar	55.6	37.2	46.4	81	1947	17	51.2	1992	19+	1955	5	41.6	1971	578	0	.0	.0	25.3	.0	6.5	.0
Apr	60.5	39.7	50.1	88	1987	27	53.5	1989	24	1936	4	45.7	1975	447	0	.0	.0	28.8	.0	3.1	.0
May	66.6	44.4	55.5	99	2001	23	59.6	1993	28+	1937	5	52.5	1974	296	2	.0	.3	31.0	.0	.2	.0
Jun	71.1	49.0	60.1	100+	1955	10	63.6	1992	31	1932	23	57.4	1971	156	8	.0	.5	30.0	.0	.0	.0
Jul	76.5	52.5	64.5	105	1942	2	67.8	1998	33	1932	6	61.7	1993	65	50	.1	2.2	31.0	.0	.0	.0
Aug	77.5	52.4	65.0	108	1981	10	67.8	1977	35	1935	16	61.4	1973	62	61	.2	2.3	31.0	.0	.0	.0
Sep	73.2	49.1	61.2	104	1944	5	64.5	1995	29	1934	26	57.5	1985	143	27	.1	1.0	30.0	.0	.0	.0
Oct	62.7	43.2	53.0	90	1987	2	56.3	1988	24+	1971	28	50.0	1984	373	0	.0	@	30.4	.0	.6	.0
Nov	51.5	38.4	45.0	77	1951	6	49.2	1995	8	1955	15	36.1	1985	601	0	.0	.0	19.8	.2	5.6	.0
Dec	45.5	34.5	40.0	66	1934	3	43.8	1979	4+	1972	9	34.0	1990	776	0	.0	.0	8.5	1.1	11.3	.0
Ann	61.4	42.4	52.0	108	Aug 1981	10	67.8+	Jul 1998	1	Jan 1950	31	31.6	Jan 1979	4900	148	.4	6.3	290.4	2.3	49.4	.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/normal/usnormals.html

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1931-2001

(3) Derived from 1971-2000 serially complete daily data

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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: LONGVIEW, WA

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Lat: 46°09N

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Precipitation (inches)																								
	Precipitation Totals									Mean Number of Days (3)				Precipitation Probabilities (1) Probability that the monthly/annual precipitation will be equal to or less than the indicated amount										
	Means/ Medians(1)		Extremes							Daily Precipitation				Monthly/Annual Precipitation vs Probability Levels These values were determined from the incomplete gamma distribution										
Month	Mean	Med-ian	Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year	>= 0.01	>= 0.10	>= 0.50	>= 1.00	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	6.35	6.81	2.65	1984	24	11.87	1990	.28	1985	20.7	13.7	4.1	1.1	1.39	1.97	2.90	3.75	4.59	5.49	6.50	7.72	9.31	11.86	14.27
Feb	5.23	4.80	3.78	1986	24	10.98	1996	.16	1993	17.7	12.3	2.9	.7	1.32	1.81	2.58	3.25	3.91	4.61	5.39	6.32	7.53	9.44	11.23
Mar	4.66	4.50	2.90	1931	31	8.48	1997	1.39	1992	19.7	13.4	2.4	.2	2.08	2.50	3.07	3.54	3.97	4.41	4.88	5.42	6.10	7.13	8.06
Apr	3.72	3.52	2.42	1991	5	7.20	1996	1.22	1977	17.9	10.7	1.7	.2	1.52	1.86	2.34	2.74	3.11	3.49	3.90	4.37	4.96	5.88	6.71
May	2.80	2.73	1.28	1968	20	6.18	1984	.34	1992	14.3	8.0	1.4	@	.74	1.00	1.41	1.77	2.12	2.49	2.90	3.38	4.01	5.01	5.94
Jun	2.25	2.01	1.87	1936	7	4.78	1984	.72	1987	10.8	6.3	1.0	.2	.77	.98	1.29	1.56	1.81	2.06	2.35	2.68	3.10	3.75	4.35
Jul	1.04	.75	2.20	1978	16	3.23	1983	.01	1973	6.3	2.8	.3	.1	.08	.15	.29	.44	.59	.78	1.00	1.27	1.65	2.29	2.91
Aug	1.25	.99	1.95	1956	3	4.23	1977	.00	1998	6.1	3.2	.7	.1	.05	.15	.33	.51	.71	.93	1.20	1.53	1.99	2.76	3.52
Sep	2.32	2.44	2.47	1935	14	4.98	1971	.06	1975	9.1	5.6	1.4	.2	.14	.28	.56	.88	1.24	1.65	2.16	2.81	3.71	5.25	6.77
Oct	3.76	3.24	2.32	1982	29	7.64	1997	.27	1987	13.8	8.6	2.4	.3	.74	1.08	1.64	2.14	2.65	3.20	3.82	4.57	5.56	7.15	8.66
Nov	7.44	7.81	3.95	1962	20	14.77	1995	1.10	1976	21.3	15.2	4.8	1.1	2.58	3.28	4.30	5.17	5.99	6.84	7.76	8.84	10.22	12.36	14.33
Dec	7.20	7.33	3.67	1977	2	14.24	1996	2.22	1976	21.4	14.2	5.3	1.3	2.78	3.45	4.41	5.20	5.95	6.71	7.54	8.50	9.71	11.58	13.29
Ann	48.02	47.05	3.95	Nov 1962	20	14.77	Nov 1995	.00	Aug 1998	179.1	114.0	28.4	5.5	34.51	37.13	40.49	43.04	45.29	47.47	49.72	52.21	55.22	59.58	63.34

+ 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: 1931-2001

(3) Derived from 1971-2000 serially complete daily data

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Station: LONGVIEW, WA

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Climate Division: WA 4

NWS Call Sign:

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Lat: 46°09N

Lon: 122°55W

Snow (inches)																							
Snow Totals															Mean Number of Days (1)								
Means/Medians (1)					Extremes (2)										Snow Fall >= Thresholds					Snow Depth >= Thresholds			
Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year	0.1	1.0	3.0	5.0	10.0	1	3	5	10
Jan	2.1	.0	#	0	12.0	1980	9	18.5	1980	18	1980	10	2	1980	.9	.6	.2	.1	.1	.9	.5	.2	.1
Feb	1.1	.0	#	0	4.0	1971	27	8.0	1990	4	1971	27	1	1989	.7	.5	.1	.0	.0	.2	.1	.0	.0
Mar	.1	.0	#	0	1.0	1971	4	1.0	1971	1	1971	4	#+	1982	.1	.1	.0	.0	.0	@	.0	.0	.0
Apr	#	.0	0	0	#	1975	2	#+	1975	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
May	#	.0	0	0	#	1975	19	#	1975	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Jun	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Jul	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Aug	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Sep	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.4	.0	#	0	4.0	1978	20	4.0	1978	4	1978	23	1	1978	.4	.1	.1	.0	.0	.4	.2	.0	.0
Dec	1.2	.0	#	0	7.0	1972	12	8.5	1972	8	1972	13	1	1972	.9	.4	.1	.1	.0	1.0	.2	.1	.0
Ann	4.9	.0	N/A	N/A	12.0	Jan 1980	9	18.5	Jan 1980	18	Jan 1980	10	2	Jan 1980	3.0	1.7	.5	.2	.1	2.5	1.0	.3	.1

+ Also occurred on an earlier date(s) #Denotes trace amounts

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-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:

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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	5/27	5/20	5/15	5/11	5/07	5/03	4/29	4/24	4/17
32	5/09	5/02	4/26	4/21	4/17	4/12	4/08	4/02	3/25
28	3/24	3/14	3/06	2/27	2/21	2/15	2/08	1/31	1/20
24	2/23	2/14	2/07	2/02	1/27	1/21	1/14	1/03	0/00
20	2/15	2/03	1/24	1/14	1/04	12/20	0/00	0/00	0/00
16	1/31	1/18	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	9/30	10/06	10/10	10/14	10/17	10/21	10/24	10/29	11/04
32	10/23	10/29	11/03	11/07	11/10	11/14	11/18	11/22	11/29
28	11/03	11/13	11/19	11/25	11/30	12/05	12/11	12/17	12/26
24	11/15	11/28	12/07	12/15	12/23	1/01	1/11	1/26	0/00
20	11/30	12/15	12/26	1/06	1/17	2/01	0/00	0/00	0/00
16	12/18	1/01	1/14	1/30	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	189	180	173	168	163	158	152	146	137
32	241	229	221	213	207	200	193	184	172
28	326	311	300	290	281	273	263	252	237
24	>365	>365	>365	355	335	321	309	295	278
20	>365	>365	>365	>365	>365	>365	351	329	308
16	>365	>365	>365	>365	>365	>365	>365	>365	353

* 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:

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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	780	623	578	447	296	156	65	62	143	373	601	776	4900
60	625	483	423	298	157	53	10	11	55	222	451	621	3409
57	532	399	332	213	94	19	2	2	23	142	366	528	2652
55	470	343	274	160	61	8	0	0	12	96	311	466	2201
50	326	215	145	61	13	0	0	0	0	27	187	319	1293
32	19	4	0	0	0	0	0	0	0	0	5	13	41

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	261	305	445	543	728	842	1008	1022	875	650	394	260	7333
55	0	1	6	13	76	160	295	310	196	33	10	0	1100
57	0	0	2	6	47	111	235	250	148	17	5	0	821
60	0	0	0	1	18	55	150	165	89	4	0	0	482
65	0	0	0	0	2	8	50	61	27	0	0	0	148
70	0	0	0	0	0	0	7	10	5	0	0	0	22

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	79	122	210	307	487	608	766	784	648	417	182	81	79	201	411	718	1205	1813	2579	3363	4011	4428	4610	4691
45	23	44	86	170	332	458	611	629	498	267	77	25	23	67	153	323	655	1113	1724	2353	2851	3118	3195	3220
50	0	5	25	72	186	308	456	474	348	133	18	0	0	5	30	102	288	596	1052	1526	1874	2007	2025	2025
55	0	0	0	24	85	163	302	319	205	42	0	0	0	0	0	24	109	272	574	893	1098	1140	1140	1140
60	0	0	0	2	32	65	158	171	87	9	0	0	0	0	0	2	34	99	257	428	515	524	524	524
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	17	43	103	165	269	342	459	481	378	216	60	16	17	60	163	328	597	939	1398	1879	2257	2473	2533	2549

(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.
Complete documentation for the 1971-2000 Normals is available on the internet from:
www.ncdc.noaa.gov/oa/climate/normal/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 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.

- | | |
|---|---|
| <ol style="list-style-type: none">a. Temperature/ Precipitation Tables<ol style="list-style-type: none">1. 1971-2000 Monthly Normals2. Cooperative Summary of the Day3. National Weather Service station records4. 1971-2000 serially complete daily datab. Degree Day Table<ol style="list-style-type: none">1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data | <ol style="list-style-type: none">c. Snow Tables<ol style="list-style-type: none">1. Snow Climatology2. Cooperative Summary of the Dayd. Freeze Data Table
1971-2000 serially complete daily data |
|---|---|

References

U.S. Climate Normals 1971-2000, www.ncdc.noaa.gov/normal.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normal/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