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: ARLINGTON, OR **COOP ID: 350265**

Climate Division: OR 6 **NWS Call Sign:** **Elevation: 277 Feet** **Lat: 45˚43N** **Lon: 120˚12W**

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	40.1	27.9	34.0	65+	1990	9	41.2	1999	-22	1957	27	17.6	1979	961	0	.0	.0	5.9	5.8	17.9	.6
Feb	46.3	30.9	38.6	70+	1996	9	43.3+	1998	-23	1950	2	28.1	1989	739	0	.0	.0	12.2	2.1	14.6	.3
Mar	56.0	36.4	46.2	79	1966	29	51.5	1986	0	1954	13	42.0	1976	582	0	.0	.0	27.7	.1	8.1	.0
Apr	64.9	42.2	53.6	94	1977	24	57.9	1977	22+	1964	18	48.2	1982	347	4	.0	.1	29.9	.0	2.9	.0
May	74.4	49.4	61.9	107	1986	30	66.7	1993	26	1954	1	57.8	1977	141	45	.2	2.0	31.0	.0	.3	.0
Jun	81.8	55.9	68.9	110	1961	17	76.0	1986	36	1950	5	64.3	1976	42	157	.6	6.9	30.0	.0	@	.0
Jul	90.2	61.6	75.9	111	1994	21	82.6	1985	42+	1981	8	68.8	1993	7	344	5.7	17.0	31.0	.0	.0	.0
Aug	89.3	61.0	75.2	115	1961	4	81.2	1991	40	1974	12	70.5	1980	6	322	3.8	16.2	31.0	.0	.0	.0
Sep	79.2	51.9	65.6	104	1950	2	71.5	1998	30	1954	30	60.7	1971	90	106	.1	3.8	30.0	.0	.2	.0
Oct	65.0	42.0	53.5	90	1958	3	58.0	1988	15	1949	19	51.1	1972	357	1	.0	.0	30.4	.0	3.4	.0
Nov	49.3	35.0	42.2	73	1975	3	47.9	1995	-5	1955	15	31.3	1985	686	0	.0	.0	16.9	.9	9.3	@
Dec	40.5	29.2	34.9	65+	1982	3	40.8	1999	-7+	1990	29	24.6	1985	935	0	.0	.0	5.6	4.7	18.0	.5
Ann	64.8	43.6	54.2	115	Aug 1961	4	82.6	Jul 1985	-23	Feb 1950	2	17.6	Jan 1979	4893	979	10.4	46.0	281.6	13.6	74.7	1.4

\+ 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	1.39	1.36	1.43	1953	9	3.08	1995	.16+	1985
Feb	.99	.97	1.02	1956	21	2.33	2000	.00	1988
Mar	.76	.57	.89	1987	15	2.43	1983	.06	1981
Apr	.67	.56	1.49	1988	21	3.46	1988	.00	1977
May	.65	.57	.88	1953	26	1.82	1998	.07+	1992
Jun	.35	.19	1.09	1991	20	1.31	1991	.00+	1999
Jul	.18	.12	.80	1966	2	.91	1978	.00+	2000
Aug	.29	.12	1.69	1990	21	1.77	1990	.00+	1994
Sep	.43	.28	.83	1982	19	1.85	1982	.00+	1999
Oct	.66	.54	1.03	1973	31	2.34	1982	.00+	1993
Nov	1.24	.93	2.33	1996	19	3.83	1996	.18	1976
Dec	1.44	1.24	2.27	1964	22	4.31	1996	.22	1976
Ann	9.05	8.80	2.33	Nov 1996	19	4.31	Dec 1996	.00+	Jul 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	9.5	4.6	.4	@
Feb	7.9	3.4	.2	@
Mar	6.6	2.8	.1	.0
Apr	5.5	1.8	.4	@
May	4.6	2.0	.1	.0
Jun	2.9	1.2	.1	@
Jul	1.7	.5	@	.0
Aug	2.1	.8	.1	@
Sep	2.9	1.3	.1	.0
Oct	4.7	2.1	.2	.1
Nov	9.2	4.0	.3	@
Dec	9.8	4.6	.4	.1
Ann	67.4	29.1	2.4	.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	.29	.41	.62	.80	.99	1.19	1.42	1.69	2.05	2.62	3.17
Feb	.19	.32	.49	.63	.76	.89	1.04	1.22	1.44	1.80	2.13
Mar	.11	.17	.28	.39	.50	.62	.76	.93	1.16	1.54	1.91
Apr	.01	.04	.12	.21	.32	.45	.60	.81	1.10	1.59	2.09
May	.08	.13	.22	.31	.41	.51	.64	.79	.99	1.33	1.66
Jun	.00	.01	.04	.09	.15	.21	.30	.41	.58	.86	1.15
Jul	.00	.00	.00	.03	.07	.11	.16	.23	.31	.46	.60
Aug	.00	.00	.01	.04	.08	.14	.22	.33	.49	.77	1.07
Sep	.00	.00	.00	.05	.12	.22	.34	.50	.74	1.15	1.57
Oct	.00	.00	.15	.27	.38	.51	.65	.83	1.06	1.46	1.84
Nov	.22	.33	.51	.68	.86	1.04	1.26	1.51	1.86	2.41	2.94
Dec	.18	.30	.50	.70	.92	1.15	1.42	1.76	2.21	2.96	3.68
Ann	5.00	5.71	6.65	7.40	8.08	8.75	9.46	10.26	11.25	12.73	14.04

+ 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)

Extremes (2)

Mean Number of Days (1)

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	2.0	1.0	#	#	7.5	1980	9	15.0	1980	15	1980	11	5	1979	1.3	.8	.3	.1	.0	1.6	.6	.2	.1
Feb	1.8	.0	#	0	6.0	1993	18	13.7	1993	9	1993	19	1	1993	.9	.6	.3	.1	.0	.7	.2	.1	.0
Mar	.2	.0	#	0	1.7	1993	3	2.5	1993	5	1993	1	#+	1997	.1	.1	.0	.0	.0	@	.0	.0	.0
Apr	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
May	.0	.0	0	0	.0	0	0	.0	0	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	.1	.0	#	0	2.0	1991	29	2.0	1991	#	1991	28	#	1991	@	@	.0	.0	.0	.0	.0	.0	.0
Nov	.9	.0	#	0	5.0	1977	22	8.0	1977	6	1977	23	1	1985	.6	.4	.1	@	.0	.6	.2	.1	.0
Dec	1.8	.8	#	#	6.0	1983	6	7.0+	1981	6	1983	28	2	1985	1.5	.9	.1	.1	.0	2.1	.2	@	.0
Ann	6.8	1.8	N/A	N/A	7.5	Jan 1980	9	15.0	Jan 1980	15	Jan 1980	11	5	Jan 1979	4.4	2.8	.8	.3	.0	5.0	1.2	.4	.1

+ 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	5/17	5/11	5/06	5/02	4/29	4/25	4/22	4/17	4/11
32	5/06	4/28	4/22	4/17	4/12	4/08	4/03	3/28	3/20
28	4/20	4/11	4/05	3/31	3/26	3/21	3/15	3/09	2/28
24	4/03	3/23	3/14	3/07	2/28	2/21	2/14	2/05	1/24
20	3/02	2/20	2/12	2/06	1/30	1/24	1/17	1/07	12/21
16	2/20	2/09	1/31	1/24	1/16	1/07	12/27	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	9/16	9/22	9/27	10/02	10/05	10/09	10/13	10/18	10/25
32	10/01	10/06	10/10	10/13	10/16	10/19	10/22	10/26	10/31
28	10/14	10/20	10/25	10/29	11/02	11/06	11/10	11/15	11/21
24	10/31	11/09	11/15	11/20	11/25	11/30	12/05	12/11	12/19
20	11/03	11/16	11/25	12/03	12/11	12/19	12/28	1/08	1/29
16	11/21	12/04	12/14	12/22	12/31	1/11	1/26	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	192	181	172	165	159	152	145	137	125
32	215	205	198	192	186	180	174	167	157
28	257	244	235	228	221	214	206	197	185
24	316	300	288	278	269	260	250	239	223
20	>365	>365	343	327	314	303	292	280	264
16	>365	>365	>365	>365	357	336	320	306	288

***** 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	961	739	582	347	141	42	7	6	90	357	686	935	4893
60	806	599	427	214	59	11	0	1	33	210	536	780	3676
57	720	515	336	147	29	4	0	0	15	135	451	687	3039
55	662	462	277	110	16	1	0	0	8	92	396	626	2650
50	519	332	148	42	2	0	0	0	0	28	266	483	1820
32	147	41	1	0	0	0	0	0	0	0	23	103	315

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	209	226	442	647	927	1104	1360	1339	1006	667	327	191	8445
55	11	3	5	67	230	415	647	626	324	47	10	1	2386
57	7	0	2	44	181	358	585	564	271	27	5	0	2044
60	0	0	0	21	118	275	492	471	200	9	0	0	1586
65	0	0	0	4	45	157	344	322	106	1	0	0	979
70	0	0	0	0	11	74	210	189	46	0	0	0	530

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	49	80	226	414	679	869	1114	1095	780	438	148	44	49	129	355	769	1448	2317	3431	4526	5306	5744	5892	5936
45	13	23	100	268	524	719	959	940	630	289	61	8	13	36	136	404	928	1647	2606	3546	4176	4465	4526	4534
50	0	0	26	143	370	569	804	785	481	161	18	2	0	0	26	169	539	1108	1912	2697	3178	3339	3357	3359
55	0	0	3	60	225	420	649	630	336	72	1	0	0	0	3	63	288	708	1357	1987	2323	2395	2396	2396
60	0	0	0	20	117	276	494	476	202	25	0	0	0	0	0	20	137	413	907	1383	1585	1610	1610	1610
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	13	31	118	238	412	546	709	702	495	257	52	7	13	44	162	400	812	1358	2067	2769	3264	3521	3573	3580

(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