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: LEABURG 1 SW, OR **COOP ID: 354811**

Climate Division: OR 2 **NWS Call Sign:** **Elevation: 675 Feet** **Lat: 44˚06N** **Lon: 122˚41W**

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	47.9	33.5	40.7	69	1961	20	44.6	1995	6	1950	31	33.8	1979	753	0	.0	.0	12.3	.3	13.1	.0
Feb	52.3	35.0	43.7	78	1968	29	48.8	1992	4	1989	5	36.4	1989	599	0	.0	.0	17.1	.3	9.4	.0
Mar	56.9	36.7	46.8	79	1994	28	51.1	1986	20	1971	1	42.1	1971	565	0	.0	.0	25.1	.0	6.3	.0
Apr	61.2	39.4	50.3	87	1957	29	54.7	1989	27	1968	13	45.0	1975	440	0	.0	.0	27.8	.0	2.2	.0
May	67.1	43.6	55.4	94+	2001	23	60.7	1992	30+	1982	4	51.5	1977	302	2	.0	.2	30.6	.0	.2	.0
Jun	73.2	47.9	60.6	102	1992	23	64.8	1992	35+	1999	3	56.8	1976	152	18	@	1.4	30.0	.0	.0	.0
Jul	81.2	50.7	66.0	105	1961	12	69.4	1985	40+	1979	2	61.3	1993	54	83	.4	6.3	31.0	.0	.0	.0
Aug	82.3	50.3	66.3	106	1972	8	69.6	1986	38	1973	22	63.2	1975	41	81	.5	6.5	31.0	.0	.0	.0
Sep	76.9	47.0	62.0	101	1987	1	65.7	1974	31	1965	17	57.6	1985	124	31	.1	2.6	30.0	.0	.0	.0
Oct	65.9	42.2	54.1	97	1980	3	57.9	1988	26+	1985	9	50.7	1971	341	1	.0	.2	30.2	.0	.8	.0
Nov	53.0	38.0	45.5	74+	1997	6	49.6	1995	15	1955	15	38.5	1985	586	0	.0	.0	20.1	.1	5.6	.0
Dec	46.7	33.8	40.3	66	1980	31	44.3	1977	2	1972	10	33.7	1990	768	0	.0	.0	10.7	.8	12.2	.0
Ann	63.7	41.5	52.6	106	Aug 1972	8	69.6	Aug 1986	2	Dec 1972	10	33.7	Dec 1990	4725	216	1.0	17.2	295.9	1.5	49.8	.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/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	8.87	9.48	2.94	1988	10	15.60	1996	.90	1985
Feb	7.78	7.48	4.41	1961	10	15.51	1986	2.71	1973
Mar	7.31	6.97	2.81	1972	2	13.64	1989	1.76	1992
Apr	5.88	5.34	2.50	1990	28	11.02	1993	2.49	1977
May	4.25	3.98	2.02	1949	1	8.56	1998	.56	1992
Jun	2.68	2.17	2.02	1984	7	8.21	1984	.90	1986
Jul	.86	.65	1.55	1987	18	3.35	1987	.00	1973
Aug	1.14	.81	1.43	1960	23	3.76	1989	.00+	1998
Sep	2.48	2.24	2.44	1963	15	8.45	1986	.00+	1993
Oct	4.95	4.52	3.15	1979	19	10.34	1996	.16	1987
Nov	10.57	10.38	5.37	1999	26	21.59	1973	2.89	1976
Dec	9.91	9.56	5.10	1981	6	24.24	1996	2.02	1976
Ann	66.68	66.36	5.37	Nov 1999	26	24.24	Dec 1996	.00+	Aug 1998

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	19.8	14.9	6.3	2.2
Feb	17.9	13.9	6.2	1.8
Mar	19.5	14.8	5.3	1.2
Apr	17.5	12.6	4.1	.8
May	13.5	9.6	2.9	.6
Jun	9.0	6.3	1.6	.3
Jul	4.3	2.2	.4	.1
Aug	4.6	2.9	.7	.1
Sep	7.1	5.2	1.7	.5
Oct	12.4	8.8	4.0	1.1
Nov	20.7	16.1	8.1	2.9
Dec	20.2	16.1	7.5	2.6
Ann	166.5	123.4	48.8	14.2

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	2.79	3.63	4.88	5.95	6.99	8.06	9.24	10.62	12.39	15.16	17.73
Feb	3.23	3.94	4.94	5.76	6.53	7.31	8.15	9.12	10.35	12.22	13.91
Mar	3.12	3.78	4.71	5.46	6.17	6.89	7.66	8.55	9.67	11.38	12.93
Apr	2.83	3.34	4.03	4.59	5.10	5.62	6.17	6.79	7.58	8.76	9.83
May	1.08	1.48	2.10	2.64	3.18	3.75	4.38	5.13	6.12	7.67	9.12
Jun	.68	.93	1.32	1.66	2.00	2.36	2.76	3.23	3.85	4.83	5.75
Jul	.01	.06	.16	.28	.42	.58	.78	1.04	1.40	2.03	2.66
Aug	.00	.00	.08	.21	.38	.61	.91	1.32	1.91	2.98	4.08
Sep	.00	.15	.51	.89	1.30	1.78	2.34	3.05	4.03	5.69	7.32
Oct	.79	1.21	1.93	2.61	3.32	4.08	4.96	6.04	7.48	9.81	12.04
Nov	3.77	4.77	6.21	7.42	8.57	9.76	11.05	12.55	14.47	17.43	20.15
Dec	3.03	3.98	5.38	6.59	7.76	8.97	10.31	11.87	13.90	17.06	19.99
Ann	48.44	51.99	56.54	59.97	63.02	65.96	68.99	72.33	76.38	82.23	87.28

+ 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	1.4	.0	#	0	6.0	1971	14	14.5	1971	12	1971	14	1	1982	1.0	.6	.2	.1	.0	.6	.2	.2	@
Feb	2.2	.0	#	0	6.5	1989	2	14.3	1971	12	1971	28	1	1990	1.3	.8	.3	.1	.0	1.1	.4	.2	@
Mar	.3	.0	#	0	1.5	1972	25	2.0	1971	10	1971	1	1	1971	.4	.2	.0	.0	.0	.4	.2	.1	@
Apr	.0	.0	#	0	.0	0	0	.0	0	#	1982	15	#	1982	.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	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.3	.0	#	0	2.0	1975	29	2.5+	1977	2	1985	22	#+	1994	.4	.1	.0	.0	.0	.3	.0	.0	.0
Dec	1.3	.0	#	0	5.0	1972	6	12.8	1972	9	1972	12	3	1972	.8	.6	.1	.1	.0	1.0	.5	.4	.0
Ann	5.5	.0	N/A	N/A	6.5	Feb 1989	2	14.5	Jan 1971	12+	Feb 1971	28	3	Dec 1972	3.9	2.3	.6	.3	.0	3.4	1.3	.9	@

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

(1) Derived from Snow Climatology and 1971-2000 daily data

@ Denotes mean number of days greater than 0 but less than .05

(2) Derived from 1971-2000 daily data

-9/-9.9 represents missing values

Annual statistics for Mean/Median snow depths are not appropriate

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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	6/01	5/25	5/20	5/16	5/12	5/09	5/04	4/30	4/23
32	5/02	4/26	4/21	4/17	4/13	4/09	4/05	3/31	3/25
28	3/25	3/12	3/03	2/23	2/15	2/08	1/31	1/21	1/08
24	2/19	2/08	1/31	1/23	1/16	1/07	12/27	0/00	0/00
20	2/11	1/30	1/21	1/12	1/02	12/15	0/00	0/00	0/00
16	1/17	12/26	0/00	0/00	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	9/23	9/30	10/04	10/08	10/12	10/16	10/20	10/25	11/01
32	10/15	10/23	10/28	11/02	11/07	11/11	11/16	11/22	11/30
28	11/04	11/13	11/20	11/25	11/30	12/06	12/11	12/18	12/27
24	11/25	12/07	12/16	12/24	1/02	1/12	1/26	0/00	0/00
20	12/16	12/29	1/08	1/18	1/30	0/00	0/00	0/00	0/00
16	12/27	1/15	0/00	0/00	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	179	170	163	157	152	147	141	134	125
32	236	226	219	213	207	201	195	188	178
28	333	315	303	294	285	277	267	257	242
24	>365	>365	>365	>365	>365	346	329	314	297
20	>365	>365	>365	>365	>365	>365	>365	344	322
16	>365	>365	>365	>365	>365	>365	>365	>365	>365

***** 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	753	599	565	440	302	152	54	41	124	341	586	768	4725
60	598	459	410	293	165	58	10	6	43	195	436	613	3286
57	505	375	321	211	102	25	2	1	17	122	350	520	2551
55	443	321	263	162	69	12	0	0	8	82	295	458	2113
50	297	195	138	69	17	1	0	0	0	23	172	309	1221
32	10	2	0	0	0	0	0	0	0	0	3	11	26

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	280	328	458	550	723	856	1052	1063	898	683	407	266	7564
55	0	2	8	21	79	178	340	350	215	52	9	0	1254
57	0	0	4	11	50	131	280	289	164	30	4	0	963
60	0	0	0	3	20	74	195	201	100	9	0	0	602
65	0	0	0	0	2	18	83	81	31	1	0	0	216
70	0	0	0	0	0	2	20	17	5	0	0	0	44

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	87	136	220	318	487	628	815	824	665	437	186	80	87	223	443	761	1248	1876	2691	3515	4180	4617	4803	4883
45	26	51	97	180	334	478	660	669	515	286	79	23	26	77	174	354	688	1166	1826	2495	3010	3296	3375	3398
50	1	10	32	84	192	329	505	514	365	152	19	0	1	11	43	127	319	648	1153	1667	2032	2184	2203	2203
55	0	0	0	33	92	191	350	359	222	58	1	0	0	0	0	33	125	316	666	1025	1247	1305	1306	1306
60	0	0	0	4	33	82	206	212	106	14	0	0	0	0	0	4	37	119	325	537	643	657	657	657
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	33	65	121	180	281	371	502	512	410	254	71	21	33	98	219	399	680	1051	1553	2065	2475	2729	2800	2821

(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

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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