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: NYSSA, OR **COOP ID: 356179**

Climate Division: OR 9 **NWS Call Sign:** **Elevation: 2,175 Feet** **Lat: 43˚53N** **Lon: 116˚59W**

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	34.5	21.3	27.9	64	1953	10	35.4	1978	-19	1962	24	14.7	1979	1150	0	.0	.0	1.5	11.9	27.2	1.6
Feb	43.7	26.2	35.0	68	1963	28	41.5	1995	-18+	1989	6	17.8	1989	842	0	.0	.0	8.0	3.7	22.5	.6
Mar	55.7	32.8	44.3	81	1978	30	49.7	1992	10	1993	1	38.3	1976	642	0	.0	.0	24.7	.1	15.2	.0
Apr	64.9	39.0	52.0	92	1987	28	57.8	1987	20	1953	2	45.6	1975	394	3	.0	.1	29.2	.0	4.5	.0
May	73.3	46.8	60.1	100	1986	30	65.5	1992	24	1986	1	55.4	1977	182	28	@	1.4	30.9	.0	.3	.0
Jun	82.0	54.2	68.1	102+	1974	20	74.8	1986	35	1992	14	63.3	1993	53	146	.7	6.7	30.0	.0	.0	.0
Jul	90.6	59.8	75.2	105+	2001	5	80.0	1998	35	1986	5	67.0	1993	7	324	2.7	19.1	31.0	.0	.0	.0
Aug	89.8	57.7	73.8	106	1998	10	78.5	1971	40+	1965	31	68.6	1976	11	282	2.2	17.9	31.0	.0	.0	.0
Sep	79.0	47.5	63.3	100	1967	2	70.3	1990	28+	1965	19	56.9	1985	130	78	.0	3.7	30.0	.0	.5	.0
Oct	65.8	37.4	51.6	92	1997	2	58.8	1988	21+	2001	28	48.0	1981	417	1	.0	@	30.2	.0	7.3	.0
Nov	47.8	29.4	38.6	71	1949	28	43.7	1983	-1	1985	23	29.0	1985	793	0	.0	.0	13.0	1.5	20.1	.1
Dec	36.0	22.3	29.2	67+	1995	13	37.6	1977	-18+	1972	11	13.4	1985	1112	0	.0	.0	2.1	9.5	27.4	1.4
Ann	63.6	39.5	51.6	106	Aug 1998	10	80.0	Jul 1998	-19	Jan 1962	24	13.4	Dec 1985	5733	862	5.6	48.9	261.6	26.7	125.0	3.7

\+ 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	1.31	1.26	1.08	1979	11	2.70	1998	.08	1985
Feb	1.10	1.03	1.53	1986	13	3.53	1986	.09	1988
Mar	1.01	.94	.70	1993	17	2.59	1993	.10	1994
Apr	.90	.76	1.02	2000	14	3.39	1978	.17	1987
May	1.03	.87	1.10	1964	28	3.50	1998	.02	1971
Jun	.80	.90	1.27	1989	16	1.94	1984	.06	1994
Jul	.34	.26	.86	1997	10	1.91	1997	.00+	2000
Aug	.35	.17	1.32	1979	14	1.88	1979	.00+	2000
Sep	.56	.31	.92	1976	12	2.11	1980	.00+	1999
Oct	.62	.46	.98	1982	30	1.99	1982	.00+	1988
Nov	1.19	1.07	.78	1971	27	2.61	1981	.24	1989
Dec	1.38	1.12	.97	1983	30	4.69	1983	.05	1989
Ann	10.59	10.17	1.53	Feb 1986	13	4.69	Dec 1983	.00+	Aug 2000

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	9.7	4.4	.4	@
Feb	8.8	3.6	.3	@
Mar	9.2	3.7	.2	.0
Apr	7.6	3.2	.1	@
May	6.6	3.5	.4	.0
Jun	5.4	2.5	.2	@
Jul	2.5	1.3	.1	.0
Aug	2.6	1.1	.1	@
Sep	3.8	1.8	.1	.0
Oct	4.8	2.1	.2	.0
Nov	10.4	4.1	.3	.0
Dec	10.1	4.4	.6	.0
Ann	81.5	35.7	3.0	@

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	.32	.45	.64	.81	.98	1.15	1.35	1.59	1.90	2.38	2.84
Feb	.18	.27	.43	.58	.74	.91	1.10	1.34	1.66	2.17	2.66
Mar	.21	.30	.45	.58	.72	.86	1.03	1.23	1.49	1.91	2.31
Apr	.15	.23	.36	.48	.61	.75	.91	1.10	1.35	1.77	2.17
May	.05	.11	.23	.37	.53	.72	.95	1.24	1.66	2.38	3.09
Jun	.11	.18	.29	.40	.52	.65	.80	.98	1.22	1.62	2.01
Jul	.00	.00	.05	.10	.16	.22	.31	.42	.57	.83	1.10
Aug	.00	.00	.00	.02	.08	.17	.27	.41	.62	.97	1.33
Sep	.00	.00	.02	.10	.20	.32	.48	.68	.96	1.45	1.96
Oct	.00	.00	.14	.24	.35	.47	.61	.78	1.01	1.39	1.76
Nov	.28	.39	.56	.72	.87	1.04	1.22	1.45	1.73	2.19	2.63
Dec	.17	.27	.47	.66	.86	1.09	1.35	1.68	2.12	2.85	3.56
Ann	6.72	7.44	8.37	9.10	9.75	10.38	11.04	11.78	12.69	14.02	15.19

\+ 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: 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	5.8	4.3	2	1
Feb	1.6	.7	1	#
Mar	.2	.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
Sep	.0	.0	0	0
Oct	.0	.0	#	0
Nov	1.5	.0	#	#
Dec	6.5	5.0	1	1
Ann	15.6	10.0	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	9.0	1977	3	19.5	1976	15+	1993	18	9	1989
Feb	5.0	1985	20	9.7	1985	14	1989	18	9	1989
Mar	2.0	1985	7	2.4	1985	4+	1993	5	1	1993
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	#	1978	16	#	1978
Sep	.0	0	0	.0	0	0	0	0	0	0
Oct	.5	1971	27	.5	1971	1	1971	27	#	1971
Nov	4.0	1977	22	9.8	1985	6	1994	25	2	1994
Dec	10.0	1972	7	30.1	1983	15	1972	7	6	1985
Ann	10.0	Dec 1972	7	30.1	Dec 1983	15+	Jan 1993	18	9+	Feb 1989

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	3.5	2.2	.6	.3	.0
Feb	1.5	.8	.2	.1	.0
Mar	.3	.1	.0	.0	.0
Apr	.0	.0	.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	@	.0	.0	.0	.0
Nov	1.0	.7	.2	.0	.0
Dec	4.2	2.4	.9	.3	@
Ann	10.5	6.2	1.9	.7	@

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	12.2	6.8	4.9	.8
Feb	3.1	1.7	.7	.0
Mar	.2	@	.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
Nov	1.9	1.1	.6	.0
Dec	7.2	3.8	2.2	.1
Ann	24.6	13.4	8.4	.9

+ 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	6/07	5/30	5/24	5/18	5/14	5/09	5/04	4/28	4/20
32	5/11	5/05	4/30	4/26	4/22	4/19	4/15	4/10	4/04
28	4/23	4/17	4/12	4/09	4/05	4/02	3/29	3/24	3/18
24	4/10	4/01	3/26	3/20	3/15	3/10	3/05	2/26	2/18
20	3/13	3/04	2/26	2/20	2/15	2/11	2/05	1/30	1/21
16	2/27	2/17	2/10	2/04	1/30	1/24	1/17	1/09	12/25

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	9/21	9/25	9/28	10/01	10/04	10/07	10/10	10/15
32	9/25	9/30	10/04	10/07	10/10	10/13	10/16	10/20	10/26
28	10/10	10/15	10/19	10/22	10/25	10/28	10/31	11/03	11/08
24	10/23	10/28	11/01	11/05	11/08	11/11	11/15	11/19	11/24
20	11/07	11/12	11/16	11/19	11/22	11/25	11/29	12/02	12/08
16	11/12	11/20	11/26	11/30	12/05	12/10	12/15	12/21	1/03

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	171	160	152	145	139	133	126	118	107
32	198	188	181	176	170	165	159	152	142
28	225	217	212	207	202	197	193	187	179
24	270	259	251	244	237	231	224	216	204
20	309	298	291	285	279	273	267	260	249
16	>365	>365	326	314	306	298	291	282	271

***** 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	1150	842	642	394	182	53	7	11	130	417	793	1112	5733
60	995	702	487	256	85	16	0	2	58	269	643	957	4470
57	902	623	395	184	46	6	0	0	31	191	553	864	3795
55	843	571	338	143	28	3	0	0	19	145	496	802	3388
50	699	442	203	64	5	0	0	0	4	60	359	656	2492
32	262	114	6	0	0	0	0	0	0	0	52	216	650

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	135	196	387	599	869	1082	1340	1294	938	607	249	127	7823
55	3	9	6	51	184	395	627	581	267	40	3	0	2166
57	0	5	1	33	140	338	565	519	219	24	0	0	1844
60	0	0	0	15	86	258	472	427	156	9	0	0	1423
65	0	0	0	3	28	146	324	282	78	1	0	0	862
70	0	0	0	0	5	68	191	157	30	0	0	0	451

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	3	39	164	364	622	845	1091	1048	701	368	68	8	3	42	206	570	1192	2037	3128	4176	4877	5245	5313	5321
45	0	9	69	224	467	695	936	893	551	228	19	2	0	9	78	302	769	1464	2400	3293	3844	4072	4091	4093
50	0	0	19	118	317	545	781	738	403	113	1	0	0	0	19	137	454	999	1780	2518	2921	3034	3035	3035
55	0	0	0	49	191	395	627	583	266	41	0	0	0	0	0	49	240	635	1262	1845	2111	2152	2152	2152
60	0	0	0	17	96	261	474	428	149	12	0	0	0	0	0	17	113	374	848	1276	1425	1437	1437	1437
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	21	110	232	381	527	692	659	451	255	38	4	0	21	131	363	744	1271	1963	2622	3073	3328	3366	3370

(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