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: THREE LYNX, OR **COOP ID: 358466**

Climate Division: OR 4 **NWS Call Sign:** **Elevation: 1,120 Feet** **Lat: 45˚08N** **Lon: 122˚04W**

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	41.7	30.3	36.0	63	1976	31	41.5	1981	-2	1950	31	28.3	1979	898	0	.0	.0	2.5	1.9	18.1	.0
Feb	46.0	31.6	38.8	72	1968	29	44.2	1991	-2	1950	1	31.6	1989	734	0	.0	.0	8.1	.9	14.3	.0
Mar	52.0	34.0	43.0	78	1934	13	49.1	1992	10	1971	2	37.3	1971	681	0	.0	.0	17.8	@	10.2	.0
Apr	57.8	37.1	47.5	92	1934	20	51.5	1987	24	1936	1	41.6	1975	527	0	.0	.0	23.8	.0	3.7	.0
May	64.2	42.0	53.1	101	1983	29	58.8	1992	28	1954	1	49.1	1977	370	1	@	.6	29.3	.0	.2	.0
Jun	69.9	46.9	58.4	106	1961	17	62.8	1986	34+	1975	16	54.9	1991	208	9	.0	.9	29.9	.0	.0	.0
Jul	77.3	50.5	63.9	107+	1946	21	68.2	1985	38	1937	7	59.0	1993	86	52	.2	3.3	31.0	.0	.0	.0
Aug	78.4	50.0	64.2	106+	1977	18	68.6	1986	39+	1980	29	60.4	1980	84	59	.6	3.3	31.0	.0	.0	.0
Sep	73.4	45.7	59.6	104	1988	3	63.8	1974	30+	1970	14	55.5	1985	185	23	.1	1.7	30.0	.0	.1	.0
Oct	61.8	39.9	50.9	92	1987	2	57.0	1988	22	1935	30	47.4	1984	439	0	.0	@	28.2	.0	1.6	.0
Nov	47.7	35.3	41.5	74	1962	2	46.5	1995	7	1985	25	33.5	1985	704	0	.0	.0	11.5	.3	7.8	.0
Dec	41.7	31.0	36.4	62	1933	23	40.4	1979	1	1964	17	29.9	1990	887	0	.0	.0	2.2	1.5	16.9	.0
Ann	59.3	39.5	49.4	107+	Jul 1946	21	68.6	Aug 1986	-2+	Feb 1950	1	28.3	Jan 1979	5803	144	.9	9.8	245.3	4.6	72.9	.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: 1931-2001

(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	10.47	10.80	4.22	1948	7	18.09	1972	1.29	1985
Feb	8.85	9.00	4.97	1961	10	16.54	1979	1.10	1993
Mar	7.58	7.18	2.96	1963	30	13.36	1997	2.14	1992
Apr	5.94	5.87	2.61	1990	28	10.05	1993	2.47	1999
May	4.36	3.79	3.07	1949	2	8.02	1984	.76	1992
Jun	3.01	2.65	2.71	1981	8	8.03	1981	.78	1972
Jul	1.01	.74	1.70	1968	12	5.82	1983	.02	1973
Aug	1.08	.94	1.21	1956	26	4.42	1978	.00+	1998
Sep	2.82	2.36	1.64	1977	30	7.56	1986	.02	1993
Oct	5.29	4.72	3.52	1994	27	10.21	1997	.05	1987
Nov	11.03	10.94	4.58	1994	1	23.26	1973	2.23	1976
Dec	11.27	10.54	4.23	1981	6	21.61	1981	2.98	1976
Ann	72.71	74.91	4.97	Feb 1961	10	23.26	Nov 1973	.00+	Aug 1998

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	19.5	15.7	7.1	3.2
Feb	17.8	14.0	6.5	2.5
Mar	20.3	15.5	5.6	1.3
Apr	18.6	13.4	3.8	.9
May	16.2	11.0	2.9	.4
Jun	10.8	7.4	1.7	.5
Jul	5.6	3.1	.4	.1
Aug	4.9	3.0	.6	.0
Sep	8.6	5.7	2.3	.6
Oct	13.0	9.6	4.1	1.3
Nov	20.6	16.1	8.3	3.3
Dec	20.1	15.6	8.2	3.7
Ann	176.0	130.1	51.5	17.8

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	2.90	3.89	5.40	6.72	8.01	9.35	10.85	12.61	14.90	18.50	21.86
Feb	2.91	3.75	4.98	6.03	7.04	8.08	9.22	10.56	12.27	14.94	17.39
Mar	3.01	3.71	4.70	5.52	6.30	7.09	7.94	8.93	10.18	12.09	13.84
Apr	2.79	3.31	4.02	4.59	5.13	5.66	6.23	6.89	7.70	8.94	10.05
May	1.67	2.08	2.66	3.14	3.59	4.06	4.56	5.15	5.89	7.03	8.07
Jun	.80	1.09	1.52	1.90	2.28	2.67	3.11	3.63	4.31	5.37	6.37
Jul	.05	.10	.22	.36	.51	.70	.92	1.22	1.63	2.34	3.05
Aug	.00	.00	.11	.26	.44	.66	.93	1.30	1.81	2.71	3.62
Sep	.08	.20	.48	.84	1.27	1.79	2.46	3.34	4.61	6.82	9.06
Oct	.59	1.00	1.73	2.47	3.26	4.15	5.18	6.47	8.22	11.10	13.92
Nov	3.57	4.61	6.16	7.47	8.74	10.06	11.50	13.18	15.35	18.72	21.83
Dec	3.74	4.81	6.37	7.71	8.99	10.31	11.76	13.45	15.62	18.99	22.10
Ann	52.42	56.37	61.42	65.25	68.65	71.92	75.31	79.04	83.56	90.11	95.76

\+ 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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Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	5.9	1.8	1	#
Feb	3.0	.0	#	#
Mar	1.0	.0	#	0
Apr	.4	.0	#	0
May	#	.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	2.3	.0	#	0
Dec	2.8	1.5	#	0
Ann	15.4	3.3	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	1971	14	35.8	1982	19	1971	14	6	1982
Feb	7.0	1971	25	23.3	1990	9	1990	15	2+	1990
Mar	5.0	1971	3	8.0	1971	14	1971	1	4	1971
Apr	3.0	1973	18	3.0	1973	2+	1982	15	#+	1982
May	#	1974	16	#	1974	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	0	0	0	0	0
Sep	.0	0	0	.0	0	0	0	0	0	0
Oct	1.0	1972	29	1.0	1972	#	1972	28	#	1972
Nov	8.0	1985	22	17.0	1985	13	1985	23	4	1985
Dec	16.0	1987	31	16.0	1987	9	1994	7	5	1985
Ann	16.0	Dec 1987	31	35.8	Jan 1982	19	Jan 1971	14	6	Jan 1982

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	2.2	1.8	.8	.4	.0
Feb	1.4	1.1	.4	.2	.0
Mar	.6	.5	.1	@	.0
Apr	.3	.2	@	.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
Nov	.9	.8	.3	.2	.0
Dec	2.0	1.4	.4	.1	@
Ann	7.4	5.8	2.0	.9	@

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	3.4	1.4	.5	.2
Feb	1.7	.7	.4	.0
Mar	.6	.2	.1	.0
Apr	.2	.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	.0
Nov	.6	.2	.1	.0
Dec	1.8	.3	.0	.0
Ann	8.3	2.8	1.1	.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	6/03	5/28	5/23	5/19	5/15	5/12	5/08	5/03	4/26
32	5/08	5/01	4/26	4/21	4/17	4/13	4/09	4/03	3/27
28	3/26	3/15	3/07	2/28	2/22	2/16	2/09	2/01	1/21
24	2/27	2/18	2/11	2/05	1/31	1/25	1/19	1/12	1/01
20	2/23	2/11	2/01	1/24	1/15	1/06	12/24	0/00	0/00
16	2/15	1/31	1/18	1/05	12/18	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	9/29	10/03	10/06	10/10	10/13	10/16	10/20	10/26
32	10/06	10/12	10/17	10/21	10/25	10/29	11/02	11/07	11/14
28	11/04	11/14	11/21	11/28	12/03	12/09	12/16	12/23	1/02
24	11/21	12/01	12/09	12/15	12/22	12/28	1/03	1/12	1/24
20	11/28	12/13	12/24	1/02	1/13	1/24	2/11	0/00	0/00
16	12/11	12/26	1/08	1/23	2/15	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	167	160	155	151	147	142	138	133	126
32	219	209	202	196	190	185	179	171	162
28	328	313	302	292	284	275	266	255	239
24	>365	356	338	329	322	315	308	300	289
20	>365	>365	>365	>365	>365	350	333	318	301
16	>365	>365	>365	>365	>365	>365	>365	353	317

***** 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	898	734	681	527	370	208	86	84	185	439	704	887	5803
60	743	594	526	377	227	96	22	22	88	289	554	732	4270
57	650	510	433	291	153	51	7	8	48	208	465	639	3463
55	588	454	373	236	113	29	2	3	29	160	407	577	2971
50	434	319	232	120	40	5	0	0	6	69	271	423	1919
32	44	18	4	0	0	0	0	0	0	0	13	35	114

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	169	208	346	463	654	791	989	998	827	585	299	171	6500
55	0	0	2	10	54	130	278	288	166	32	3	0	963
57	0	0	0	4	32	92	221	231	125	18	1	0	724
60	0	0	0	1	13	47	142	152	75	6	0	0	436
65	0	0	0	0	1	9	52	59	23	0	0	0	144
70	0	0	0	0	0	0	9	12	4	0	0	0	25

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	26	55	131	243	420	563	755	766	606	356	101	27	26	81	212	455	875	1438	2193	2959	3565	3921	4022	4049
45	0	10	44	123	270	413	600	611	456	211	27	0	0	10	54	177	447	860	1460	2071	2527	2738	2765	2765
50	0	0	7	54	143	266	445	456	307	97	2	0	0	0	7	61	204	470	915	1371	1678	1775	1777	1777
55	0	0	0	15	69	141	291	302	173	34	0	0	0	0	0	15	84	225	516	818	991	1025	1025	1025
60	0	0	0	1	27	63	156	161	77	11	0	0	0	0	0	1	28	91	247	408	485	496	496	496
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	1	22	71	135	233	310	449	464	362	196	24	0	1	23	94	229	462	772	1221	1685	2047	2243	2267	2267

(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.
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