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: LOST CREEK DAM, OR **COOP ID: 355055**

Climate Division: OR 3 **NWS Call Sign:** **Elevation: 1,580 Feet** **Lat: 42˚40N** **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	47.3	28.3	37.8	70	1981	22	42.7	1995	7+	1980	30	32.4	1971	843	0	.0	.0	12.0	@	21.7	.0
Feb	52.8	30.2	41.5	78+	1995	24	46.7	1992	2	1989	6	35.3	1989	657	0	.0	.0	17.5	.3	16.9	.0
Mar	57.4	32.8	45.1	83	1994	28	49.7	1978	15+	1971	2	40.8	1971	617	0	.0	.0	24.6	.0	15.8	.0
Apr	63.1	36.3	49.7	92+	1987	28	54.9	1990	21	1972	18	43.4	1975	460	1	.0	.1	27.8	.0	9.2	.0
May	71.1	41.0	56.1	101	1983	29	62.5	1992	27	1999	10	51.7	1977	288	9	@	1.8	30.7	.0	2.1	.0
Jun	79.4	46.0	62.7	107	1992	23	67.0	1977	29	1976	6	58.8	1991	117	50	.4	5.6	29.9	.0	.2	.0
Jul	88.4	50.1	69.3	108+	1979	18	73.5	1985	36+	1976	1	61.7	1993	32	163	3.8	15.3	31.0	.0	.0	.0
Aug	88.8	49.7	69.3	112+	1981	9	73.5	1977	37	1975	31	65.2	1976	23	155	3.5	16.0	31.0	.0	.0	.0
Sep	82.5	43.6	63.1	108	1988	3	66.6+	1995	26	1970	14	57.3	1985	120	61	1.2	9.2	30.0	.0	.7	.0
Oct	70.6	36.8	53.7	104	1980	3	60.1	1988	16+	1971	30	49.1	1971	358	7	.1	1.6	30.1	.0	6.9	.0
Nov	52.7	32.8	42.8	79	1970	3	48.1	1995	11+	1978	14	36.6	1985	667	0	.0	.0	19.9	.0	14.2	.0
Dec	46.1	28.9	37.5	64	1979	4	42.5	1995	-10+	1972	11	31.4	1972	852	0	.0	.0	10.1	.5	20.5	.3
Ann	66.7	38.0	52.4	112+	Aug 1981	9	73.5+	Jul 1985	-10+	Dec 1972	11	31.4	Dec 1972	5034	446	9.0	49.6	294.6	.8	108.2	.3

\+ 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: 1970-2001

(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	4.88	5.16	2.91	1979	11	9.47	1974	.55	1985
Feb	4.02	3.60	2.57	1983	18	9.25	1986	.58	1988
Mar	3.78	3.12	2.70	1983	30	8.28	1983	.70	1992
Apr	2.50	2.46	1.56	2000	18	4.84	1995	.36	1987
May	2.04	1.93	1.14	1977	23	5.11	1996	.17	1982
Jun	1.00	.81	1.08	1993	5	3.69	1995	.03+	1999
Jul	.55	.22	1.25	1987	18	3.15	1987	.00+	1994
Aug	.69	.24	1.57	1976	7	4.20	1976	.00+	1996
Sep	1.11	.91	2.10	1994	29	4.09	1986	.00+	1999
Oct	2.41	2.22	1.80	1973	22	5.80	1979	.00	1987
Nov	5.32	4.22	3.87	1973	6	14.58	1973	.77	1976
Dec	5.45	4.82	2.38	1993	8	14.95	1996	.62	1976
Ann	33.75	32.89	3.87	Nov 1973	6	14.95	Dec 1996	.00+	Sep 1999

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	15.4	10.4	3.1	1.0
Feb	14.9	9.4	2.5	.6
Mar	16.3	10.1	1.9	.5
Apr	13.0	7.7	1.0	.2
May	9.5	5.5	1.0	.1
Jun	5.4	2.8	.5	@
Jul	2.6	1.2	.3	.1
Aug	3.2	1.7	.5	.1
Sep	4.9	2.7	.5	.2
Oct	8.5	5.4	1.6	.4
Nov	16.7	11.5	3.2	1.1
Dec	16.7	11.7	3.4	1.2
Ann	127.1	80.1	19.5	5.5

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	1.40	1.86	2.56	3.17	3.76	4.38	5.06	5.86	6.91	8.55	10.07
Feb	1.16	1.55	2.12	2.62	3.10	3.61	4.17	4.83	5.68	7.02	8.26
Mar	1.14	1.50	2.04	2.50	2.95	3.41	3.93	4.53	5.31	6.52	7.65
Apr	.73	.96	1.32	1.63	1.93	2.25	2.60	3.00	3.54	4.37	5.14
May	.38	.57	.86	1.14	1.42	1.73	2.07	2.49	3.04	3.92	4.77
Jun	.05	.11	.23	.37	.52	.70	.92	1.21	1.61	2.29	2.98
Jul	.00	.00	.02	.08	.16	.26	.41	.61	.92	1.48	2.07
Aug	.00	.00	.00	.01	.10	.25	.45	.74	1.18	1.99	2.83
Sep	.00	.00	.15	.40	.62	.85	1.12	1.44	1.87	2.54	3.23
Oct	.26	.54	.95	1.29	1.65	2.03	2.45	2.97	3.66	4.76	5.80
Nov	1.16	1.65	2.43	3.14	3.85	4.60	5.45	6.47	7.80	9.94	11.96
Dec	1.02	1.51	2.31	3.05	3.80	4.61	5.53	6.65	8.12	10.50	12.76
Ann	22.43	24.56	27.33	29.45	31.34	33.19	35.11	37.24	39.84	43.64	46.95

\+ 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: 1970-2001
(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	2.5	.8	#	0	13.0	1971	14	16.3	1971	15	1971	14	2	1982	1.2	.6	.2	.1	.1	.6	.2	.2	.1
Feb	1.4	.0	#	0	3.0	1971	4	10.4	1971	10	1971	19	1+	1990	.9	.7	.1	.0	.0	.5	.2	@	.0
Mar	.6	.0	#	0	2.5	1971	1	4.3	1971	8	1971	1	1	1971	.6	.2	.0	.0	.0	.4	.1	@	.0
Apr	.1	.0	#	0	1.0	1975	15	1.1	1975	1+	1976	12	#+	1976	.2	.1	.0	.0	.0	.1	.0	.0	.0
May	#	.0	0	0	#	1971	21	#	1971	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	#	1971	30	#	1971	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	4.7	1977	21	4.7	1977	5	1977	21	#+	1982	.2	.2	.1	.0	.0	.1	@	@	.0
Dec	3.4	.0	#	0	12.5	1972	4	29.1	1972	12	1972	13	4	1972	1.4	1.0	.4	.1	.1	.8	.1	@	.0
Ann	8.4	.8	N/A	N/A	13.0	Jan 1971	14	29.1	Dec 1972	15	Jan 1971	14	4	Dec 1972	4.5	2.8	.8	.2	.2	2.5	.6	.2	.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	6/19	6/12	6/07	6/03	5/30	5/26	5/22	5/17	5/10
32	5/30	5/24	5/19	5/15	5/11	5/08	5/04	4/29	4/22
28	5/04	4/26	4/20	4/15	4/11	4/06	4/01	3/27	3/19
24	4/01	3/22	3/15	3/09	3/04	2/26	2/20	2/13	2/03
20	2/28	2/17	2/08	2/01	1/26	1/19	1/12	1/03	12/21
16	2/15	2/02	1/23	1/13	1/01	12/11	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	9/05	9/11	9/15	9/19	9/22	9/26	9/29	10/04	10/10
32	9/19	9/25	9/30	10/04	10/08	10/12	10/16	10/21	10/27
28	10/01	10/11	10/17	10/23	10/28	11/03	11/09	11/15	11/25
24	10/24	11/04	11/11	11/17	11/23	11/29	12/06	12/13	12/24
20	11/14	11/24	12/01	12/07	12/13	12/19	12/25	1/02	1/14
16	11/22	12/09	12/23	1/05	1/22	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	147	136	128	121	115	108	101	94	82
32	177	167	160	154	149	143	137	131	121
28	234	222	214	207	200	193	186	178	166
24	304	291	281	272	264	256	248	238	224
20	>365	361	343	330	320	310	301	289	274
16	>365	>365	>365	>365	>365	>365	351	322	295

***** 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	843	657	617	460	288	117	32	23	120	358	667	852	5034
60	688	517	462	319	162	44	7	3	49	225	518	697	3691
57	595	433	371	240	105	19	2	0	24	159	429	604	2981
55	533	377	314	194	75	10	0	0	14	121	372	542	2552
50	383	247	181	102	24	1	0	0	3	52	238	388	1619
32	28	7	0	0	0	0	0	0	0	0	7	25	67

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	208	273	406	530	744	922	1154	1155	932	672	330	196	7522
55	0	0	7	34	106	242	441	442	256	79	4	0	1611
57	0	0	2	21	75	191	381	381	206	55	2	0	1314
60	0	0	0	9	38	126	293	290	141	29	0	0	926
65	0	0	0	1	9	50	163	155	61	7	0	0	446
70	0	0	0	0	0	12	73	62	18	1	0	0	166

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	42	105	187	301	508	691	918	916	703	437	129	39	42	147	334	635	1143	1834	2752	3668	4371	4808	4937	4976
45	5	30	80	178	355	541	763	761	554	290	50	6	5	35	115	293	648	1189	1952	2713	3267	3557	3607	3613
50	0	2	27	91	219	394	608	606	405	162	10	0	0	2	29	120	339	733	1341	1947	2352	2514	2524	2524
55	0	0	0	37	120	256	454	451	265	71	0	0	0	0	0	37	157	413	867	1318	1583	1654	1654	1654
60	0	0	0	7	55	138	301	299	147	26	0	0	0	0	0	7	62	200	501	800	947	973	973	973
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	28	80	138	212	332	437	556	554	460	324	76	21	28	108	246	458	790	1227	1783	2337	2797	3121	3197	3218

(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