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: HONEYMAN STATE PARK, OR **COOP ID: 353995**

Climate Division: OR 1 **NWS Call Sign:** **Elevation: 115 Feet** **Lat: 43˚56N** **Lon: 124˚06W**

Temperature (˚F)

Month	Mean (1)			Extremes										Degree Days (1) Base Temp 65		Mean Number of Days (3)					
	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	50.7	36.5	43.6	65+	1987	30	47.8	1998	14	1980	29	37.2	1979	664	0	.0	.0	18.7	@	6.9	.0
Feb	53.6	38.2	45.9	75	1992	26	51.0	1992	13	1989	5	39.4	1989	535	0	.0	.0	21.8	.1	4.6	.0
Mar	56.0	38.6	47.3	78	1987	31	51.3	1992	23	1976	5	43.6	1985	534	0	.0	.0	28.4	.0	3.0	.0
Apr	59.2	40.5	49.9	86	1999	15	54.5	1992	29+	2000	17	45.8	1975	455	0	.0	.0	29.6	.0	1.6	.0
May	63.2	43.9	53.6	92	1992	3	58.3	1997	31+	1999	9	51.4	1982	355	0	.0	@	31.0	.0	.1	.0
Jun	66.6	47.5	57.1	97	1995	28	59.5	1992	27	2001	5	54.8	1984	239	0	.0	.1	30.0	.0	.0	.0
Jul	69.4	49.9	59.7	95	1972	2	62.1	1995	33+	2001	6	57.0	1971	168	3	.0	@	31.0	.0	.0	.0
Aug	70.0	50.7	60.4	91	1977	10	63.4	1994	39	1973	18	56.5	1980	152	7	.0	@	31.0	.0	.0	.0
Sep	70.1	48.9	59.5	99	1973	4	63.8	1997	32	1972	27	55.4	1986	175	10	.0	.4	30.0	.0	@	.0
Oct	63.4	44.6	54.0	92	1991	10	56.3	1988	24	1999	18	50.8	1999	342	0	.0	.1	31.0	.0	.2	.0
Nov	54.5	40.6	47.6	69+	1976	8	51.5	1995	20	1985	24	41.0	1985	524	0	.0	.0	25.9	.0	2.3	.0
Dec	50.4	36.7	43.6	65	1999	23	46.8	1995	9	1972	8	37.6	1978	666	0	.0	.0	19.0	.4	6.2	.0
Ann	60.6	43.1	51.9	99	Sep 1973	4	63.8	Sep 1997	9	Dec 1972	8	37.2	Jan 1979	4809	20	.0	.6	327.4	.5	24.9	.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: 1971-2001

(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	10.83	11.79	4.60	2000	10	20.02	1995	.86	1985
Feb	9.34	9.09	3.15	1986	12	17.69	1986	2.59	1988
Mar	8.96	9.23	3.00	1974	14	18.41	1974	2.14	1992
Apr	5.24	4.42	3.48	1990	27	10.47	1978	1.34	1977
May	3.80	3.73	2.16	1978	14	8.26	1988	.14	1992
Jun	2.47	2.52	2.70	1985	6	5.39	1993	.39+	1992
Jul	.92	.51	1.78	1993	22	3.80	1983	.03	1973
Aug	1.14	.69	1.53	1989	2	3.24	1971	.00	1998
Sep	2.27	1.68	1.75	1997	17	7.46	1997	.00	1975
Oct	5.34	5.00	3.62	1979	20	12.01	1979	.49	1987
Nov	10.76	10.57	3.40	1975	30	19.73	1973	2.38	1993
Dec	11.96	13.33	4.00	1998	28	22.67	1996	2.54	1976
Ann	73.03	70.97	4.60	Jan 2000	10	22.67	Dec 1996	.00+	Aug 1998

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	18.6	15.3	8.1	3.4
Feb	17.8	14.6	6.8	2.7
Mar	18.3	14.9	6.4	2.1
Apr	15.7	11.2	3.7	.8
May	12.5	8.1	2.7	.6
Jun	8.7	5.3	1.3	.4
Jul	4.5	2.2	.6	.1
Aug	5.3	2.7	.6	.2
Sep	6.8	4.5	1.5	.4
Oct	11.5	8.7	3.9	1.2
Nov	18.3	14.9	7.7	3.0
Dec	18.8	15.3	8.0	3.5
Ann	156.8	117.7	51.3	18.4

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	3.09	4.12	5.67	7.02	8.34	9.71	11.23	13.03	15.35	19.00	22.40
Feb	3.44	4.31	5.57	6.63	7.63	8.66	9.77	11.06	12.72	15.26	17.59
Mar	3.61	4.44	5.60	6.56	7.47	8.39	9.38	10.53	11.98	14.21	16.23
Apr	1.78	2.28	3.00	3.61	4.20	4.81	5.47	6.24	7.24	8.77	10.19
May	.83	1.18	1.74	2.24	2.74	3.28	3.89	4.61	5.56	7.08	8.51
Jun	.44	.66	1.02	1.36	1.70	2.07	2.50	3.01	3.69	4.79	5.83
Jul	.03	.07	.17	.29	.43	.60	.81	1.09	1.49	2.19	2.88
Aug	.02	.09	.23	.39	.57	.78	1.04	1.38	1.85	2.65	3.45
Sep	.03	.14	.40	.70	1.06	1.49	2.02	2.72	3.71	5.43	7.15
Oct	.85	1.31	2.09	2.82	3.58	4.41	5.36	6.52	8.06	10.57	12.98
Nov	3.75	4.77	6.24	7.49	8.68	9.90	11.24	12.79	14.78	17.85	20.68
Dec	4.02	5.15	6.81	8.21	9.56	10.95	12.47	14.25	16.53	20.06	23.31
Ann	52.67	56.63	61.69	65.52	68.92	72.20	75.59	79.32	83.85	90.40	96.06

\+ 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: 1971-2001
(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	.0	#	0	1.0	1972	26	1.5	1982	1+	1982	6	#+	1982	.2	.1	.0	.0	.0	.1	.0	.0	.0
Feb	.2	.0	#	0	5.0	1989	3	5.0+	1989	11	1989	3	2	1989	.2	.1	@	@	.0	.0	.0	.0	.0
Mar	.0	.0	#	0	.5	1994	22	.5	1994	1	1994	22	#	1994	.1	.0	.0	.0	.0	@	.0	.0	.0
Apr	#	.0	0	0	#	1982	5	#+	1982	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	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	#	.0	#	0	#	1985	30	#+	1985	#+	1985	22	#+	1985	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.3	.0	#	0	4.0	1972	5	6.0	1972	6	1972	6	2	1972	.1	.1	@	.0	.0	.2	.0	.0	.0
Ann	.6	.0	N/A	N/A	5.0	Feb 1989	3	6.0	Dec 1972	11	Feb 1989	3	2+	Feb 1989	.6	.3	@	@	.0	.3	.0	.0	.0

+ 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	5/23	5/16	5/11	5/06	5/02	4/28	4/24	4/19	4/11
32	5/04	4/22	4/14	4/06	3/30	3/24	3/16	3/08	2/24
28	3/09	2/24	2/14	2/06	1/29	1/21	1/12	12/31	12/10
24	2/13	1/27	1/15	1/03	12/20	12/01	0/00	0/00	0/00
20	1/10	12/22	0/00	0/00	0/00	0/00	0/00	0/00	0/00
16	1/06	12/11	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	10/08	10/15	10/21	10/26	10/30	11/04	11/09	11/14	11/22
32	10/23	11/02	11/09	11/15	11/21	11/26	12/02	12/09	12/19
28	11/09	11/22	12/02	12/10	12/18	12/26	1/03	1/15	2/05
24	11/26	12/12	12/25	1/06	1/21	2/15	0/00	0/00	0/00
20	12/19	1/07	0/00	0/00	0/00	0/00	0/00	0/00	0/00
16	12/28	1/25	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	214	202	194	187	180	174	167	158	147
32	283	266	254	244	234	225	215	203	186
28	>365	>365	347	331	318	308	297	284	268
24	>365	>365	>365	>365	>365	>365	353	328	310
20	>365	>365	>365	>365	>365	>365	>365	>365	>365
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)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	664	535	534	455	355	239	168	152	175	342	524	666	4809
60	509	395	395	305	204	101	50	47	70	190	374	511	3151
57	416	311	302	221	123	44	13	13	30	110	289	418	2290
55	356	260	245	168	81	19	4	5	14	68	234	357	1811
50	216	141	119	69	17	1	0	0	0	12	120	215	910
32	3	0	0	0	0	0	0	0	0	0	0	1	4

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	362	389	473	535	668	751	857	878	824	682	466	358	7243
55	3	5	6	13	37	80	148	170	148	37	10	1	658
57	0	0	1	6	16	44	95	116	104	17	5	0	404
60	0	0	0	0	4	12	39	57	54	3	0	0	169
65	0	0	0	0	0	0	3	7	10	0	0	0	20
70	0	0	0	0	0	0	0	0	0	0	0	0	0

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	159	199	247	308	436	532	623	645	594	453	249	156	159	358	605	913	1349	1881	2504	3149	3743	4196	4445	4601
45	57	87	107	162	281	382	468	490	444	300	122	59	57	144	251	413	694	1076	1544	2034	2478	2778	2900	2959
50	3	25	29	56	133	232	313	335	294	154	35	6	3	28	57	113	246	478	791	1126	1420	1574	1609	1615
55	0	0	0	9	37	92	159	180	149	53	1	0	0	0	0	9	46	138	297	477	626	679	680	680
60	0	0	0	0	2	12	36	45	42	11	0	0	0	0	0	0	2	14	50	95	137	148	148	148
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	44	71	104	146	217	272	341	352	327	224	83	39	44	115	219	365	582	854	1195	1547	1874	2098	2181	2220

(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