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: IDLEYLD PARK 4 NE, OR **COOP ID: 354126**

Climate Division: OR 3 **NWS Call Sign:** **Elevation: 1,080 Feet** **Lat: 43˚22N** **Lon: 122˚58W**

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	46.2	32.6	39.4	70+	1981	22	43.7	1978	2	1962	21	35.0	1979	794	0	.0	.0	10.1	.1	16.1	.0
Feb	51.7	34.1	42.9	77	1968	29	47.6	1995	6	1989	5	36.9	1989	618	0	.0	.0	17.2	.3	12.5	.0
Mar	56.9	35.7	46.3	80+	1969	28	50.5	1986	16	1971	1	41.5	1971	580	0	.0	.0	25.2	.0	10.5	.0
Apr	62.8	38.0	50.4	90	1998	29	55.4	1989	24+	1972	18	44.7	1975	437	0	.0	@	28.5	.0	5.6	.0
May	69.3	42.0	55.7	97	2001	22	61.5	1992	26	1996	4	51.6	1977	291	3	.0	.5	31.0	.0	2.1	.0
Jun	75.6	46.6	61.1	100	1966	15	65.4	1986	31+	1996	18	57.4	1976	137	21	@	1.5	30.0	.0	.2	.0
Jul	82.7	49.5	66.1	103	1961	11	69.6	1996	34	1977	5	61.4	1993	53	86	.1	6.0	31.0	.0	.0	.0
Aug	82.4	48.9	65.7	104	1978	8	68.6	1986	32	2000	28	61.6	1980	49	69	.5	6.1	31.0	.0	@	.0
Sep	77.0	44.8	60.9	102	1988	2	64.5	1991	26	1965	17	56.0	1985	152	29	@	2.7	30.0	.0	.8	.0
Oct	64.9	40.0	52.5	96	1980	2	57.3	1988	21+	1985	9	49.6	1971	390	0	.0	.2	30.1	.0	4.2	.0
Nov	50.8	37.0	43.9	76	1962	2	49.1	1995	13	1978	13	37.7	1985	634	0	.0	.0	18.0	.0	8.8	.0
Dec	44.4	32.8	38.6	66	1969	13	43.1	1977	-1+	1972	9	32.8	1990	818	0	.0	.0	7.4	.6	16.0	.1
Ann	63.7	40.2	52.0	104	Aug 1978	8	69.6	Jul 1996	-1+	Dec 1972	9	32.8	Dec 1990	4953	208	.6	17.0	289.5	1.0	76.8	.1

\+ 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: 1958-2001

(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	9.01	9.44	3.55	1976	7	16.49	1972	1.08	1985
Feb	7.51	7.19	3.42	1986	18	16.78	1986	1.72	1988
Mar	6.99	6.82	5.03	1972	2	12.54	1974	1.40	1992
Apr	5.29	5.24	2.59	1992	9	10.61	1993	1.91	1977
May	3.52	3.06	1.89	1963	2	8.17	1998	.24	1982
Jun	1.88	1.56	1.90	1984	4	4.86	1984	.19	1987
Jul	.74	.42	2.26	1987	18	4.58	1987	.00+	1994
Aug	1.08	.51	1.35	1983	29	5.12	1976	.00+	1998
Sep	2.03	1.14	2.40	1981	27	8.57	1986	.00+	1999
Oct	4.58	4.04	2.92	1961	27	9.71	1996	.05	1987
Nov	10.41	9.24	6.72	1961	22	26.10	1973	1.61	1976
Dec	10.32	8.51	4.36	1964	22	24.73	1996	1.67	1976
Ann	63.36	61.19	6.72	Nov 1961	22	26.10	Nov 1973	.00+	Sep 1999

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	16.5	13.8	6.8	2.5
Feb	15.6	13.0	5.6	1.7
Mar	17.3	13.6	4.7	1.2
Apr	15.7	12.1	3.6	.6
May	11.2	8.0	2.3	.4
Jun	7.0	4.9	1.2	.2
Jul	2.8	1.6	.4	.2
Aug	3.5	2.2	.8	.2
Sep	5.8	4.0	1.4	.5
Oct	10.2	7.7	3.8	1.1
Nov	17.9	15.3	7.8	2.7
Dec	17.0	14.9	7.4	3.1
Ann	140.5	111.1	45.8	14.4

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	2.73	3.59	4.87	5.97	7.03	8.14	9.36	10.80	12.65	15.55	18.23
Feb	2.56	3.27	4.30	5.18	6.02	6.89	7.83	8.94	10.35	12.54	14.56
Mar	2.89	3.53	4.43	5.17	5.86	6.57	7.33	8.20	9.31	11.00	12.53
Apr	2.46	2.92	3.56	4.08	4.55	5.03	5.55	6.13	6.87	7.98	8.98
May	.90	1.23	1.74	2.19	2.64	3.11	3.63	4.25	5.06	6.34	7.54
Jun	.41	.58	.86	1.11	1.36	1.63	1.93	2.29	2.76	3.51	4.23
Jul	.00	.00	.03	.13	.26	.42	.62	.89	1.27	1.93	2.61
Aug	.00	.00	.00	.14	.33	.57	.88	1.29	1.88	2.91	3.95
Sep	.00	.00	.22	.51	.85	1.26	1.78	2.45	3.40	5.06	6.73
Oct	.47	.81	1.44	2.08	2.77	3.54	4.45	5.59	7.14	9.72	12.23
Nov	3.12	4.11	5.59	6.87	8.11	9.40	10.81	12.48	14.64	18.02	21.15
Dec	2.76	3.74	5.23	6.54	7.82	9.17	10.67	12.44	14.76	18.39	21.78
Ann	43.95	47.67	52.46	56.10	59.35	62.50	65.75	69.36	73.74	80.12	85.65

\+ 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: 1958-2001
(3) Derived from 1971-2000 serially complete daily data

Complete documentation available from:
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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	4.3	1.8	#	#
Feb	4.4	1.0	#	#
Mar	1.7	.3	#	0
Apr	.5	.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
Oct	.0	.0	0	0
Nov	.9	.0	#	0
Dec	3.2	1.5	#	#
Ann	15.0	4.6	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	13	25.0	1971	20	1971	14	4	1982
Feb	10.0	1971	27	33.0	1990	18	1971	28	4	1990
Mar	3.0	1971	4	8.0	1971	13	1971	1	3	1971
Apr	2.0	1975	15	4.0	1975	1	1975	3	#+	1983
May	.5	1986	6	.5	1986	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	#	1971	28	#	1971
Oct	1.0	1971	30	1.0	1971	0	0	0	0	0
Nov	4.5	1973	5	6.5	1973	2	1984	25	#+	1994
Dec	6.5	1972	12	17.1	1971	11	1972	12	4	1972
Ann	10.0	Feb 1971	27	33.0	Feb 1990	20	Jan 1971	14	4+	Feb 1990

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	2.0	1.5	.6	.2	.0
Feb	1.6	1.4	.6	.3	.1
Mar	1.6	.9	.1	.0	.0
Apr	.7	.2	.0	.0	.0
May	@	.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	.6	.5	.1	.0	.0
Dec	1.9	1.2	.4	.1	.0
Ann	8.4	5.7	1.8	.6	.1

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	3.4	1.2	.6	.1
Feb	2.1	1.0	.7	.3
Mar	.5	.3	.2	.1
Apr	@	.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	.4	.0	.0	.0
Dec	2.5	.8	.3	.0
Ann	8.9	3.3	1.8	.5

+ 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	6/29	6/22	6/16	6/11	6/07	6/03	5/29	5/24	5/16
32	6/08	5/31	5/25	5/21	5/16	5/12	5/07	5/01	4/24
28	4/27	4/16	4/08	4/01	3/26	3/20	3/13	3/05	2/22
24	3/16	3/04	2/24	2/17	2/10	2/03	1/27	1/17	1/04
20	2/13	2/01	1/23	1/15	1/07	12/29	12/17	0/00	0/00
16	2/05	1/21	1/06	12/15	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	8/27	9/03	9/08	9/12	9/16	9/20	9/24	9/29	10/06
32	9/11	9/18	9/24	9/29	10/03	10/08	10/12	10/18	10/26
28	10/12	10/21	10/28	11/03	11/08	11/13	11/19	11/26	12/05
24	11/07	11/17	11/25	12/01	12/07	12/14	12/20	12/29	1/10
20	11/23	12/06	12/15	12/23	1/01	1/10	1/25	0/00	0/00
16	12/17	1/05	1/24	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	131	120	113	106	100	94	87	79	69
32	170	160	152	145	139	133	127	119	108
28	265	252	242	234	226	219	210	201	187
24	>365	339	322	310	300	290	279	267	251
20	>365	>365	>365	>365	>365	345	331	318	303
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	794	618	580	437	291	137	53	49	152	390	634	818	4953
60	639	478	425	294	157	49	10	7	64	239	484	663	3509
57	546	394	335	214	96	19	2	1	30	159	396	570	2762
55	484	339	278	167	64	9	0	0	16	114	340	508	2319
50	333	210	150	77	16	0	0	0	2	37	209	355	1389
32	12	2	0	0	0	0	0	0	0	0	5	15	34

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	241	308	444	553	735	873	1057	1044	867	634	361	220	7337
55	0	1	8	29	86	192	344	331	193	34	6	0	1224
57	0	0	3	17	55	142	284	270	147	18	2	0	938
60	0	0	0	6	23	82	198	183	90	5	0	0	587
65	0	0	0	0	3	21	86	69	29	0	0	0	208
70	0	0	0	0	0	2	21	12	5	0	0	0	40

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	71	127	208	317	488	633	813	805	638	401	153	67	71	198	406	723	1211	1844	2657	3462	4100	4501	4654	4721
45	21	43	90	180	333	483	658	650	488	252	61	17	21	64	154	334	667	1150	1808	2458	2946	3198	3259	3276
50	0	5	28	77	194	333	503	495	339	122	15	0	0	5	33	110	304	637	1140	1635	1974	2096	2111	2111
55	0	0	0	28	86	192	348	340	197	38	1	0	0	0	0	28	114	306	654	994	1191	1229	1230	1230
60	0	0	0	4	31	83	200	190	88	8	0	0	0	0	0	4	35	118	318	508	596	604	604	604
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	23	61	124	199	305	394	516	513	415	248	60	13	23	84	208	407	712	1106	1622	2135	2550	2798	2858	2871

(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