

Climatology of the United States

No. 20

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: OAKRIDGE FISH HATCHERY, OR

1971-2000

COOP ID: 356213

Climate Division: OR 4

NWS Call Sign:

Elevation: 1,275 Feet Lat: 43° 45N

Lon: 122° 27W

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	46.0	30.8	38.4	71	1961	20	43.0	1981	-1	1962	21	34.8	1991	825	0	.0	.0	8.6	.1	19.5	.0
Feb	51.4	32.3	41.9	79	1968	29	46.5	1992	2	1989	5	35.2	1989	649	0	.0	.0	15.9	.3	15.1	.0
Mar	56.1	34.5	45.3	82	1960	20	50.3	1978	18+	1971	2	40.5	1971	611	0	.0	.0	23.4	.0	12.6	.0
Apr	61.1	37.8	49.5	92	1957	29	54.5	1987	25+	1975	5	44.1	1975	466	0	.0	.1	26.8	.0	4.8	.0
May	67.5	42.6	55.1	106	1983	29	60.3	1992	21	1953	11	51.1	1991	311	2	@	.8	30.5	.0	.7	.0
Jun	74.0	47.3	60.7	105+	1961	15	64.8	1987	29	1950	2	57.2	1980	154	22	.1	1.3	30.0	.0	.0	.0
Jul	81.1	50.5	65.8	107	1961	11	69.9	1985	33	1949	1	60.4	1993	55	80	.3	4.7	31.0	.0	.0	.0
Aug	82.1	49.9	66.0	108	1981	11	70.4	1977	34	1950	10	62.1	1995	53	83	.6	5.4	31.0	.0	.0	.0
Sep	77.1	45.0	61.1	108	1955	4	65.0	1974	28+	1970	13	56.7	1986	144	26	.3	3.4	30.0	.0	.4	.0
Oct	66.2	39.3	52.8	99	1952	6	57.6	1988	22+	1985	9	49.6	1971	381	1	.0	.4	29.7	.0	4.2	.0
Nov	50.9	35.3	43.1	77	1962	1	47.9	1976	14	1978	13	36.4	1994	656	0	.0	.0	16.6	.1	10.5	.0
Dec	44.6	31.4	38.0	65	1979	18	42.9	1977	-1	1990	21	31.3	1990	837	0	.0	.0	6.7	.7	18.4	.1
Ann	63.2	39.7	51.5	108+	Aug 1981	11	70.4	Aug 1977	-1+	Dec 1990	21	31.3	Dec 1990	5142	214	1.3	16.1	280.2	1.2	86.2	.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/normal/usnormals.html

Issue Date: February 2004

(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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Elevation: 1,275 Feet Lat: 43°45N

Lon: 122°27W

Precipitation (inches)																								
	Precipitation Totals									Mean Number of Days (3)				Precipitation Probabilities (1) Probability that the monthly/annual precipitation will be equal to or less than the indicated amount										
	Means/ Medians(1)		Extremes							Daily Precipitation				Monthly/Annual Precipitation vs Probability Levels These values were determined from the incomplete gamma distribution										
Month	Mean	Med- ian	Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year	>= 0.01	>= 0.10	>= 0.50	>= 1.00	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	6.31	6.61	3.40	2000	11	11.79	1971	.47	1985	15.9	12.3	4.1	1.4	1.62	2.21	3.13	3.94	4.74	5.58	6.51	7.62	9.07	11.36	13.50
Feb	5.05	4.81	2.63	1984	13	10.32	1986	1.28	1989	15.1	11.5	3.2	.7	1.60	2.08	2.79	3.40	3.98	4.59	5.26	6.04	7.04	8.60	10.05
Mar	4.82	4.44	2.42	1972	2	8.59	1972	.67	1992	17.2	12.2	2.8	.4	1.88	2.33	2.97	3.49	3.99	4.50	5.05	5.68	6.49	7.73	8.86
Apr	4.08	3.76	1.67	1990	28	7.20	1993	1.61	1977	15.7	11.4	2.4	.2	2.06	2.40	2.87	3.24	3.58	3.92	4.28	4.69	5.21	5.98	6.67
May	3.01	2.64	1.63	1996	15	7.12	1996	.42	1982	11.6	8.5	1.6	.3	.84	1.13	1.56	1.94	2.31	2.69	3.12	3.62	4.28	5.30	6.26
Jun	1.78	1.49	2.00	1950	11	3.90	1995	.00	1987	7.1	4.7	1.0	.1	.24	.47	.77	1.02	1.27	1.54	1.84	2.19	2.66	3.40	4.10
Jul	.66	.44	1.77	1989	17	2.36	1983	.00+	1998	3.2	1.8	.3	.1	.00	.00	.05	.17	.29	.44	.61	.83	1.13	1.63	2.15
Aug	1.04	.54	1.70	1989	23	4.69	1976	.00+	2000	3.7	2.5	.7	.1	.00	.00	.03	.18	.36	.58	.87	1.24	1.79	2.72	3.69
Sep	1.64	1.23	2.31	1981	27	6.13	1986	.00+	1999	6.4	4.3	.8	.1	.00	.00	.23	.48	.76	1.09	1.50	2.01	2.73	3.96	5.18
Oct	3.29	3.23	2.02	1961	27	7.24	1979	.00	1987	10.1	7.4	2.4	.5	.52	.96	1.52	1.97	2.42	2.89	3.42	4.04	4.85	6.13	7.33
Nov	7.17	6.69	4.22	1996	19	17.89	1973	1.40	1976	17.4	13.5	5.3	1.4	1.88	2.55	3.59	4.51	5.41	6.35	7.40	8.65	10.27	12.84	15.23
Dec	6.88	6.38	3.45	1964	23	17.20	1981	1.22	1976	17.4	13.5	4.8	1.5	1.69	2.34	3.34	4.23	5.12	6.05	7.09	8.32	9.94	12.50	14.91
Ann	45.73	44.35	4.22	Nov 1996	19	17.89	Nov 1973	.00+	Aug 2000	140.8	103.6	29.4	6.8	31.36	34.10	37.64	40.33	42.74	45.07	47.49	50.17	53.43	58.19	62.31

+ 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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Elevation: 1,275 Feet

Lat: 43°45N

Lon: 122°27W

Snow (inches)																							
Snow Totals															Mean Number of Days (1)								
Means/Medians (1)					Extremes (2)										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	1.8	.0	#	0	12.3	1982	4	16.7	1982	10	1971	14	1	1971	.7	.5	.2	@	@	.0	.0	.0	.0
Feb	1.1	.0	#	0	3.5	1971	27	13.5	1971	10	1971	28	1	1971	.5	.5	.3	.0	.0	.2	.1	.0	.0
Mar	.6	.0	#	0	5.0	1971	5	8.4	1971	10	1971	1	2	1971	.5	.2	@	@	.0	.2	.1	.0	.0
Apr	.2	.0	#	0	2.0	1972	17	2.5	1972	2	1972	17	#+	1997	.2	.1	.0	.0	.0	.1	.0	.0	.0
May	#	.0	0	0	#	1971	17	#	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	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	#	.0	#	0	#	1996	25	#+	1996	#	1996	25	#	1996	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.6	.0	#	0	5.3	1973	5	9.8	1973	5	1973	5	#	1973	.2	.2	.1	@	.0	.1	.1	.1	.0
Dec	1.5	.3	#	0	4.5	1974	22	12.5	1972	7	1972	12	2	1972	.9	.7	.2	.0	.0	1.2	.6	.2	.0
Ann	5.8	.3	N/A	N/A	12.3	Jan 1982	4	16.7	Jan 1982	10+	Mar 1971	1	2+	Dec 1972	3.0	2.2	.8	@	@	1.8	.9	.3	.0

+ 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

Complete documentation available from:

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Lon: 122° 27W

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	6/16	6/09	6/04	5/30	5/26	5/22	5/17	5/12	5/05
32	5/15	5/08	5/02	4/28	4/24	4/20	4/16	4/10	4/03
28	4/21	4/11	4/04	3/29	3/24	3/19	3/13	3/06	2/24
24	3/12	2/28	2/19	2/12	2/05	1/29	1/22	1/12	12/29
20	2/15	2/04	1/27	1/19	1/12	1/04	12/26	12/08	0/00
16	2/07	1/24	1/12	12/30	12/08	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	9/08	9/15	9/20	9/24	9/28	10/02	10/06	10/11	10/18
32	9/28	10/04	10/08	10/11	10/14	10/17	10/21	10/25	10/30
28	10/15	10/26	11/02	11/08	11/14	11/20	11/26	12/04	12/14
24	11/06	11/18	11/26	12/03	12/10	12/17	12/24	1/02	1/16
20	11/28	12/11	12/20	12/28	1/06	1/15	1/28	0/00	0/00
16	12/12	12/29	1/13	1/30	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	156	145	137	130	124	118	111	103	92
32	199	190	183	178	173	167	162	156	147
28	270	258	249	241	234	227	220	211	199
24	>365	347	330	317	307	296	285	273	256
20	>365	>365	>365	>365	>365	345	330	318	303
16	>365	>365	>365	>365	>365	>365	>365	>365	330

* 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

Complete documentation available from:

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Lon: 122° 27W

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	825	649	611	466	311	154	55	53	144	381	656	837	5142
60	670	509	456	319	173	62	11	10	56	236	506	682	3690
57	577	425	364	237	107	28	2	2	25	161	417	589	2934
55	515	369	306	186	73	15	0	0	13	118	360	527	2482
50	361	238	171	87	19	2	0	0	1	44	226	373	1522
32	12	5	0	0	0	0	0	0	0	0	6	18	41

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	210	281	413	524	714	858	1047	1053	873	643	340	205	7161
55	0	0	5	19	74	183	335	341	195	48	4	0	1204
57	0	0	1	10	46	137	274	280	148	29	1	0	926
60	0	0	0	3	18	81	190	195	89	10	0	0	586
65	0	0	0	0	2	22	80	83	26	1	0	0	214
70	0	0	0	0	0	3	18	20	4	0	0	0	45

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	43	97	179	289	471	622	801	805	635	396	124	40	43	140	319	608	1079	1701	2502	3307	3942	4338	4462	4502
45	0	28	70	156	316	472	646	650	485	249	41	5	0	28	98	254	570	1042	1688	2338	2823	3072	3113	3118
50	0	0	18	74	182	325	491	495	336	128	8	0	0	0	18	92	274	599	1090	1585	1921	2049	2057	2057
55	0	0	0	27	87	188	337	340	198	47	0	0	0	0	0	27	114	302	639	979	1177	1224	1224	1224
60	0	0	0	3	37	83	193	191	89	11	0	0	0	0	0	3	40	123	316	507	596	607	607	607
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	19	63	116	181	280	371	495	504	405	256	56	11	19	82	198	379	659	1030	1525	2029	2434	2690	2746	2757

(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.
Complete documentation for the 1971-2000 Normals is available on the internet from:
www.ncdc.noaa.gov/oa/climate/normal/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 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.

- | | |
|---|---|
| <ol style="list-style-type: none">a. Temperature/ Precipitation Tables<ol style="list-style-type: none">1. 1971-2000 Monthly Normals2. Cooperative Summary of the Day3. National Weather Service station records4. 1971-2000 serially complete daily datab. Degree Day Table<ol style="list-style-type: none">1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data | <ol style="list-style-type: none">c. Snow Tables<ol style="list-style-type: none">1. Snow Climatology2. Cooperative Summary of the Dayd. Freeze Data Table
1971-2000 serially complete daily data |
|---|---|

References

U.S. Climate Normals 1971-2000, www.ncdc.noaa.gov/normal.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normal/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