

Climatology of the United States

No. 20

1971-2000

Station: ONTARIO KSRV, OR

COOP ID: 356294

Climate Division: OR 9

NWS Call Sign: ONO

Elevation: 2,145 Feet Lat: 44°03N

Lon: 116°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	34.2	18.4	26.3	64	1953	9	33.9	1978	-25+	1962	22	13.0	1979	1199	0	.0	.0	1.4	10.7	28.5	2.3
Feb	43.0	24.1	33.6	66+	1995	23	40.0	2000	-24	1989	4	18.1	1989	881	0	.0	.0	8.6	3.3	23.6	.9
Mar	55.5	30.9	43.2	85	1966	30	48.1	1992	10	1989	3	37.6	1976	677	0	.0	.0	25.1	.2	18.7	.0
Apr	64.8	36.6	50.7	94	1977	24	56.8	1987	17	1956	6	44.8	1975	431	2	.0	.2	29.4	.0	8.4	.0
May	74.4	44.5	59.5	103	1986	29	64.9	1992	25	1975	25	55.3	1977	194	23	.1	2.6	31.0	.0	1.5	.0
Jun	83.7	51.3	67.5	108+	1970	23	73.3	1977	31+	1976	26	61.6	1993	64	139	1.7	10.0	30.0	.0	.1	.0
Jul	93.1	57.4	75.3	113	1967	12	80.9	1985	34	1986	5	66.9	1993	9	327	8.1	23.7	31.0	.0	.0	.0
Aug	91.5	54.3	72.9	113	1961	4	77.6	1971	33	1960	28	66.7	1976	18	262	6.0	21.6	31.0	.0	.0	.0
Sep	80.6	44.5	62.6	104	1967	1	69.6	1990	24+	1985	30	56.6	1985	143	70	.1	7.0	30.0	.0	1.4	.0
Oct	66.3	34.2	50.3	94	1997	2	57.0	1988	15	1996	21	46.4	1985	457	0	.0	.1	30.4	.0	12.6	.0
Nov	47.1	26.5	36.8	72	1965	4	42.9	1999	-6	1993	25	26.9	1985	845	0	.0	.0	13.6	1.5	22.2	.2
Dec	35.7	19.5	27.6	66	1955	22	35.2	1977	-23	1972	10	11.1	1985	1160	0	.0	.0	1.8	8.1	28.4	2.0
Ann	64.2	36.9	50.5	113+	Jul 1967	12	80.9	Jul 1985	-25+	Jan 1962	22	11.1	Dec 1985	6078	823	16.0	65.2	263.3	23.8	145.4	5.4

+ 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

095-A

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No. 20 1971-2000

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

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Elevation: 2,145 Feet Lat: 44°03N

Lon: 116°58W

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	1.29	1.24	1.35	1993	9	2.40	1993	.15	1985	7.8	4.1	.4	.1	.47	.59	.76	.91	1.05	1.19	1.35	1.53	1.76	2.11	2.44
Feb	.87	.66	.68	1982	14	2.10	1999	.00	1995	7.1	3.2	.2	.0	.07	.16	.30	.43	.56	.71	.88	1.08	1.35	1.80	2.23
Mar	.86	.80	11.10	1950	14	3.29	1983	.07	1994	7.6	3.1	.2	@	.09	.16	.28	.40	.53	.67	.84	1.05	1.34	1.82	2.29
Apr	.68	.54	.86	1990	27	2.69	1978	.03	1977	5.8	2.5	.1	.0	.08	.14	.23	.33	.43	.54	.67	.83	1.05	1.41	1.76
May	.93	.85	1.56	1998	22	5.00	1998	.09	1972	6.0	3.2	.3	@	.05	.10	.22	.34	.48	.65	.86	1.12	1.49	2.11	2.74
Jun	.62	.51	.87	1992	13	1.55	1993	.01+	1994	4.1	2.1	.1	.0	.04	.08	.16	.25	.34	.45	.59	.76	.99	1.39	1.79
Jul	.30	.18	.68	1997	10	1.23	1997	.00+	2000	2.1	1.1	.1	.0	.00	.00	.00	.04	.11	.18	.26	.37	.52	.78	1.03
Aug	.28	.07	1.18	1979	14	1.60	1979	.00+	2000	2.3	.8	.1	@	.00	.00	.00	.00	.04	.10	.19	.31	.49	.81	1.15
Sep	.47	.29	1.59	1959	14	1.91	1980	.00+	1999	3.2	1.5	.2	.0	.00	.00	.01	.07	.15	.25	.38	.56	.80	1.24	1.69
Oct	.55	.39	1.03	1982	30	2.08	1982	.00+	1999	4.1	1.9	.2	@	.00	.00	.06	.15	.25	.37	.51	.68	.93	1.34	1.75
Nov	1.19	.98	.82	1997	25	2.72	1981	.06	1976	8.8	4.4	.3	.0	.21	.32	.49	.66	.82	1.00	1.20	1.45	1.78	2.31	2.81
Dec	1.41	1.26	1.40	1968	24	4.34	1983	.00	1986	8.4	4.3	.5	@	.06	.18	.39	.60	.82	1.07	1.37	1.73	2.23	3.07	3.89
Ann	9.45	8.42	11.10	Mar 1950	14	5.00	May 1998	.00+	Aug 2000	67.3	32.2	2.7	.1	5.56	6.26	7.18	7.90	8.56	9.20	9.88	10.64	11.58	12.96	14.19

+ 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

Complete documentation available from:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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Climate Division: OR 9

NWS Call Sign: ONO

Elevation: 2,145 Feet

Lat: 44°03N

Lon: 116°58W

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	6.4	4.5	3	1	10.0	1993	9	23.5	1993	20	1979	14	13	1989	3.2	2.4	.6	.2	@	9.1	6.8	4.4	.0
Feb	2.1	1.0	2	#	6.0	1989	16	14.0	1993	18	1989	16	15	1989	1.6	1.0	.2	.1	.0	4.7	2.2	.0	.0
Mar	.4	.0	#	0	1.5	1977	3	2.5	1993	4	1993	10	#+	1993	.5	.1	.0	.0	.0	.2	.0	.0	.0
Apr	#	.0	0	0	#	1990	27	#+	1990	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	.5	1971	27	.5	1971	0	0	0	0	0	@	.0	.0	.0	.0	.0	.0	.0	.0
Nov	2.5	.3	#	0	7.0	1994	17	15.1	1985	8	1975	30	3	1985	1.3	.9	.4	.1	.0	1.4	1.0	.4	.0
Dec	4.9	3.6	1	#	8.5	1988	24	13.0	1972	12	1981	31	4	1983	3.2	2.3	.9	.3	.0	7.9	3.1	1.2	.1
Ann	16.3	9.4	N/A	N/A	10.0	Jan 1993	9	23.5	Jan 1993	20	Jan 1979	14	15	Feb 1989	9.8	6.7	2.1	.7	@	23.3	13.1	6.0	.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

Complete documentation available from:

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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	6/17	6/09	6/04	5/30	5/26	5/21	5/17	5/11	5/04
32	5/31	5/23	5/17	5/13	5/08	5/04	4/29	4/24	4/16
28	5/09	5/02	4/27	4/23	4/19	4/15	4/11	4/06	3/30
24	4/18	4/11	4/06	4/02	3/29	3/24	3/20	3/15	3/08
20	4/07	3/27	3/20	3/13	3/07	3/01	2/22	2/14	2/03
16	3/09	2/26	2/19	2/12	2/06	1/31	1/25	1/17	1/07
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	9/03	9/07	9/11	9/13	9/16	9/19	9/22	9/25	9/29
32	9/15	9/20	9/24	9/27	9/29	10/02	10/05	10/09	10/14
28	9/23	9/28	10/02	10/05	10/08	10/11	10/14	10/18	10/23
24	10/07	10/12	10/16	10/19	10/22	10/25	10/29	11/01	11/07
20	10/14	10/22	10/27	11/01	11/05	11/09	11/14	11/19	11/27
16	11/02	11/09	11/14	11/18	11/22	11/26	11/30	12/05	12/11
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	140	131	124	118	113	107	101	95	85
32	173	163	155	149	143	138	131	124	114
28	195	187	181	176	171	166	161	155	147
24	232	223	217	212	207	202	197	191	183
20	284	270	259	251	243	234	226	215	201
16	323	309	300	293	286	279	272	264	252

* 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)													
Base	Heating Degree Days (1)												
Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	1199	881	677	431	194	64	9	18	143	457	845	1160	6078
60	1044	741	522	290	92	20	1	4	66	307	695	1005	4787
57	951	657	429	215	51	9	0	1	36	223	605	912	4089
55	890	607	369	170	31	4	0	0	22	173	545	850	3661
50	745	476	230	83	6	0	0	0	5	75	406	703	2729
32	289	130	8	0	0	0	0	0	0	0	69	247	743

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	113	173	354	561	852	1065	1341	1267	917	566	214	110	7533
55	1	6	2	41	170	379	628	554	249	26	0	0	2056
57	0	0	0	25	127	324	566	493	203	14	0	0	1752
60	0	0	0	11	76	245	474	403	143	5	0	0	1357
65	0	0	0	2	23	139	327	262	70	0	0	0	823
70	0	0	0	0	4	64	196	146	27	0	0	0	437

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	0	31	156	350	627	850	1118	1052	698	347	62	5	0	31	187	537	1164	2014	3132	4184	4882	5229	5291	5296
45	0	6	63	212	472	700	963	897	549	211	17	0	0	6	69	281	753	1453	2416	3313	3862	4073	4090	4090
50	0	0	15	104	325	550	808	742	403	103	1	0	0	0	15	119	444	994	1802	2544	2947	3050	3051	3051
55	0	0	0	45	193	405	653	588	264	35	0	0	0	0	0	45	238	643	1296	1884	2148	2183	2183	2183
60	0	0	0	15	98	266	498	434	148	10	0	0	0	0	0	15	113	379	877	1311	1459	1469	1469	1469
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	25	120	250	407	529	678	635	471	274	41	3	0	25	145	395	802	1331	2009	2644	3115	3389	3430	3433

(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/normal/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