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: UKIAH, OR **COOP ID: 358726**

Climate Division: OR 8 **NWS Call Sign:** **Elevation: 3,347 Feet** **Lat: 45˚08N** **Lon: 118˚56W**

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	37.9	14.8	26.4	60+	1994	23	34.7	1981	-42	1937	20	11.4	1979	1199	0	.0	.0	2.0	8.4	29.6	4.3
Feb	44.0	19.0	31.5	70+	1992	28	39.3	1992	-37	1950	2	15.5	1989	938	0	.0	.0	6.1	3.2	26.7	2.0
Mar	50.5	24.2	37.4	75	1966	29	43.1	1986	-17	1939	5	32.5	1985	856	0	.0	.0	15.2	.6	28.0	.3
Apr	57.3	28.0	42.7	87+	1987	28	48.0	1987	9	1936	1	37.9	1975	671	0	.0	.0	22.4	@	23.3	.0
May	64.2	33.0	48.6	93	1936	26	53.9	1993	12	1954	1	45.6	1999	508	0	.0	.1	29.0	.0	14.6	.0
Jun	72.3	38.1	55.2	100	1961	16	59.8	1986	17	1964	8	51.3	1991	298	3	.0	.8	29.8	.0	6.7	.0
Jul	82.0	40.3	61.2	105+	1939	27	66.6	1998	21	1963	12	54.8	1993	148	28	.1	6.1	31.0	.0	2.8	.0
Aug	83.5	39.0	61.3	110	1961	4	66.6	1971	20+	1969	30	56.7	1980	152	35	.2	7.9	31.0	.0	4.8	.0
Sep	75.2	31.6	53.4	104	1950	2	58.9	1998	11	1965	18	48.0	1985	352	5	.2	1.6	29.8	.0	17.0	.0
Oct	64.4	25.5	45.0	92	1980	4	52.3	1988	-2	1971	29	40.8	1971	622	0	.0	.2	27.3	.1	26.1	.1
Nov	47.2	22.9	35.1	76	1988	1	41.8	1999	-32+	1985	23	21.2	1985	899	0	.0	.0	10.4	1.8	26.3	.8
Dec	38.7	16.6	27.7	68	1939	5	35.7	1973	-38+	1990	30	14.3	1985	1158	0	.0	.0	2.6	7.3	29.0	3.6
Ann	59.8	27.8	43.8	110	Aug 1961	4	66.6+	Jul 1998	-42	Jan 1937	20	11.4	Jan 1979	7801	71	.5	16.7	236.6	21.4	234.9	11.1

\+ 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: 1931-2001

(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	1.78	1.85	1.17	1957	31	2.91	1998	.35	1985
Feb	1.39	1.36	2.00	1949	18	3.72	1986	.49	1988
Mar	1.37	1.29	1.19	1995	18	3.02	1983	.21	1992
Apr	1.45	1.57	.86	1962	27	3.19	1995	.17	1977
May	1.77	1.64	1.53	1989	10	3.67	1991	.03	1992
Jun	1.29	1.48	2.90	1938	22	2.73	1995	.10	1973
Jul	.73	.53	2.28	1975	10	2.81	1997	.01	1988
Aug	.85	.48	1.80	1993	16	4.08	1976	.00+	1996
Sep	.75	.75	1.08	1959	26	1.91	1977	.00+	1999
Oct	1.21	1.11	1.57	1999	6	2.69	1979	.03	1988
Nov	2.00	1.77	2.01	1995	28	5.04	1973	.65	1993
Dec	1.96	1.99	1.25	1937	11	5.81	1996	.01	1976
Ann	16.55	16.59	2.90	Jun 1938	22	5.81	Dec 1996	.00+	Sep 1999

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	11.9	6.3	.5	@
Feb	9.9	4.8	.5	.0
Mar	10.1	4.7	.3	.1
Apr	10.1	4.9	.3	.0
May	8.9	5.1	.7	.2
Jun	7.2	4.2	.5	.0
Jul	3.7	2.0	.3	.1
Aug	4.1	2.4	.2	.1
Sep	4.8	2.3	.3	@
Oct	7.0	3.7	.4	.1
Nov	11.9	6.3	.6	.1
Dec	11.7	6.2	.7	.0
Ann	101.3	52.9	5.3	.7

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	.65	.82	1.06	1.26	1.45	1.65	1.86	2.11	2.43	2.92	3.36
Feb	.52	.65	.83	.99	1.14	1.29	1.45	1.64	1.88	2.25	2.59
Mar	.46	.59	.78	.94	1.09	1.25	1.43	1.63	1.89	2.29	2.67
Apr	.37	.51	.72	.90	1.09	1.28	1.49	1.74	2.08	2.60	3.08
May	.36	.52	.78	1.02	1.26	1.52	1.81	2.16	2.62	3.36	4.06
Jun	.27	.39	.58	.75	.93	1.11	1.32	1.57	1.90	2.43	2.94
Jul	.03	.07	.16	.25	.37	.50	.66	.88	1.18	1.69	2.21
Aug	.00	.00	.08	.25	.42	.60	.81	1.08	1.44	2.02	2.62
Sep	.00	.00	.15	.29	.43	.58	.74	.95	1.23	1.68	2.12
Oct	.12	.21	.38	.54	.73	.93	1.17	1.47	1.89	2.57	3.24
Nov	.61	.80	1.08	1.33	1.56	1.81	2.08	2.40	2.81	3.45	4.04
Dec	.26	.42	.70	.97	1.26	1.58	1.95	2.40	3.01	4.02	4.99
Ann	11.74	12.67	13.86	14.76	15.57	16.34	17.14	18.03	19.10	20.66	22.01

\+ 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: 1931-2001
(3) Derived from 1971-2000 serially complete daily data

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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	9.2	9.5	4	3
Feb	5.8	4.0	2	#
Mar	3.5	2.0	#	#
Apr	.9	#	#	#
May	.1	.0	#	0
Jun	#	.0	#	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	#	.0	0	0
Oct	.3	.0	#	0
Nov	3.9	1.5	1	#
Dec	7.0	7.0	2	1
Ann	30.7	24.0	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	10.0	1982	23	23.2	1987	21	1982	23	11	1982
Feb	9.0	1985	2	17.5	1979	22	1979	4	12	1989
Mar	8.0	1982	19	16.5	1982	15	1989	3	3	1989
Apr	3.5	1975	14	8.5	1975	4	1975	14	#+	1999
May	1.0	1977	4	2.0	1986	1	1986	21	#+	1987
Jun	#	1980	2	#+	1980	#	1976	1	#	1976
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	#	1984	24	#+	1984	0	0	0	0	0
Oct	2.7	1999	27	2.7	1999	2+	1982	18	#+	1999
Nov	12.0	1973	6	31.7	1973	15	1974	27	6	1985
Dec	8.0	1978	5	16.5	1988	15	1985	2	10	1985
Ann	12.0	Nov 1973	6	31.7	Nov 1973	22	Feb 1979	4	12	Feb 1989

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	4.1	3.6	1.1	.5	@
Feb	2.4	2.0	.7	.2	.0
Mar	1.6	1.4	.4	.1	.0
Apr	.6	.6	@	.0	.0
May	.2	.1	.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	.2	.2	.0	.0	.0
Nov	2.0	1.5	.5	.2	@
Dec	3.5	3.1	.9	.2	.0
Ann	14.6	12.5	3.6	1.2	@

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	16.5	12.6	9.4	2.1
Feb	5.9	3.4	1.3	.5
Mar	2.5	1.2	.4	.0
Apr	.4	@	.0	.0
May	.1	.0	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.3	.0	.0	.0
Nov	2.4	1.4	1.0	.3
Dec	7.3	4.6	3.2	1.6
Ann	35.4	23.2	15.3	4.5

+ 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	8/06	8/01	7/29	7/26	7/23	7/20	7/17	7/13	7/08
32	7/30	7/23	7/19	7/15	7/11	7/07	7/03	6/28	6/22
28	7/08	6/29	6/23	6/17	6/12	6/07	6/02	5/27	5/18
24	6/04	5/28	5/23	5/19	5/15	5/11	5/06	5/01	4/24
20	5/26	5/16	5/09	5/03	4/27	4/21	4/15	4/08	3/29
16	4/23	4/14	4/07	4/02	3/27	3/22	3/16	3/09	2/28

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	7/31	8/01	8/03	8/04	8/06	8/07	8/09	8/11	8/13
32	8/03	8/08	8/12	8/15	8/18	8/21	8/25	8/29	9/03
28	8/16	8/22	8/26	8/30	9/02	9/06	9/09	9/14	9/19
24	8/29	9/03	9/07	9/10	9/13	9/16	9/19	9/23	9/28
20	9/17	9/23	9/27	9/30	10/03	10/06	10/10	10/14	10/19
16	9/26	10/03	10/08	10/12	10/16	10/20	10/25	10/30	11/05

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	30	24	20	17	13	10	7	3	0
32	61	53	47	42	38	33	28	22	14
28	113	102	94	88	81	75	68	60	49
24	147	138	131	126	120	115	110	103	94
20	190	179	171	165	158	152	146	138	127
16	240	227	218	210	203	195	187	178	165

***** 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	938	856	671	508	298	148	152	352	622	899	1158	7801
60	1044	798	701	521	353	166	60	66	220	467	749	1003	6148
57	951	714	608	431	263	104	26	32	153	375	659	910	5226
55	889	658	546	372	207	71	14	19	116	316	599	848	4655
50	743	530	392	234	92	18	1	3	47	183	460	702	3405
32	281	158	28	4	0	0	0	0	0	3	97	250	821

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	105	144	195	324	515	695	903	906	643	404	188	115	5137
55	0	0	0	2	9	76	204	211	68	4	0	0	574
57	0	0	0	0	3	49	154	163	46	1	0	0	416
60	0	0	0	0	0	22	95	104	23	0	0	0	244
65	0	0	0	0	0	3	28	35	5	0	0	0	71
70	0	0	0	0	0	0	5	8	0	0	0	0	13

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	1	14	45	125	283	462	667	651	398	177	31	6	1	15	60	185	468	930	1597	2248	2646	2823	2854	2860
45	0	0	12	54	160	318	513	496	260	87	8	0	0	0	12	66	226	544	1057	1553	1813	1900	1908	1908
50	0	0	0	17	75	187	360	344	143	29	0	0	0	0	0	17	92	279	639	983	1126	1155	1155	1155
55	0	0	0	1	27	93	221	203	59	6	0	0	0	0	0	1	28	121	342	545	604	610	610	610
60	0	0	0	0	5	34	106	98	17	0	0	0	0	0	0	0	5	39	145	243	260	260	260	260
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	19	57	126	226	338	478	482	361	220	35	0	0	19	76	202	428	766	1244	1726	2087	2307	2342	2342

(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