

Climatography of the United States

No. 20

1971-2000

Station: ASHLAND, OR

COOP ID: 350304

Climate Division: OR 3

NWS Call Sign:

Elevation: 1,724 Feet Lat: 42° 13N

Lon: 122° 43W

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	47.5	29.1	38.3	70	1986	13	45.9	1995	-1	1950	31	32.7	1982	828	0	.0	.0	12.0	.4	20.1	.0
Feb	53.0	31.0	42.0	78	1992	26	48.2	1992	-1	1950	1	36.1	1989	644	0	.0	.0	19.1	.3	15.9	.0
Mar	56.8	32.8	44.8	82	1994	28	49.9	1993	17	1955	5	40.6	1976	626	0	.0	.0	25.5	.0	13.9	.0
Apr	62.5	35.2	48.9	87	1987	26	54.3	1990	21	1972	18	41.8	1975	484	0	.0	.0	28.2	.0	7.4	.0
May	70.1	40.4	55.3	98	2001	23	61.9	1992	25	1954	1	49.5	1977	309	7	.0	.9	30.8	.0	1.5	.0
Jun	78.3	45.6	62.0	105	1992	23	66.5	1986	29	1952	12	56.8	1980	130	38	.2	3.9	30.0	.0	.0	.0
Jul	86.7	49.6	68.2	106	1998	28	73.1	1998	32	1962	2	62.8	1993	40	138	1.2	12.3	31.0	.0	.0	.0
Aug	86.1	48.8	67.5	108	1981	8	71.3	1986	34	1968	25	62.8	1976	44	120	1.3	11.0	31.0	.0	.0	.0
Sep	79.5	42.8	61.2	103+	1998	2	65.5	1998	27	1950	30	55.2	1978	160	45	.3	4.5	30.0	.0	.4	.0
Oct	67.6	36.4	52.0	97	1980	2	57.2	1988	19	1971	29	47.7	1971	405	2	.0	.3	30.2	.0	5.5	.0
Nov	52.4	31.8	42.1	79	1962	1	48.1	1999	13+	1993	25	36.8	1985	686	0	.0	.0	20.0	@	13.8	.0
Dec	46.3	28.6	37.5	70	1980	26	43.6	1995	-4	1972	9	30.8	1990	855	0	.0	.0	10.5	1.1	20.3	.1
Ann	65.6	37.7	51.7	108	Aug 1981	8	73.1	Jul 1998	-4	Dec 1972	9	30.8	Dec 1990	5211	350	3.0	32.9	298.3	1.8	98.8	.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/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

005-A

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: ASHLAND, OR

COOP ID: 350304

Climate Division: OR 3

NWS Call Sign:

Elevation: 1,724 Feet Lat: 42°13N

Lon: 122°43W

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	2.49	2.41	2.86	1997	1	5.52	1996	.16	1985	12.9	6.2	1.3	.4	.45	.67	1.03	1.37	1.72	2.09	2.52	3.04	3.72	4.83	5.89	
Feb	1.92	1.80	1.62	1999	7	5.02	1986	.17	1995	11.9	5.4	.8	.1	.40	.58	.86	1.12	1.38	1.65	1.96	2.33	2.83	3.61	4.36	
Mar	2.09	1.91	1.50	1957	11	4.26	1989	.79	1992	12.9	6.4	.9	.1	.86	1.05	1.32	1.55	1.75	1.97	2.19	2.46	2.79	3.30	3.76	
Apr	1.68	1.69	1.26	1980	20	3.36	1995	.55	1977	11.9	5.8	.6	@	.65	.80	1.03	1.21	1.39	1.56	1.76	1.98	2.26	2.70	3.10	
May	1.55	1.34	1.59	1991	16	4.86	1998	.07	1982	9.1	4.6	.5	.1	.21	.33	.55	.77	1.00	1.25	1.53	1.89	2.37	3.16	3.92	
Jun	.92	1.01	1.46	1969	4	2.74	1995	.00	1974	5.6	2.9	.5	@	.04	.12	.26	.39	.54	.70	.90	1.14	1.47	2.01	2.55	
Jul	.51	.29	1.35	1987	18	3.15	1987	.00+	1994	2.7	1.4	.3	.1	.00	.00	.01	.07	.15	.26	.40	.59	.87	1.36	1.87	
Aug	.61	.41	.99	1991	20	3.08	1976	.00+	1998	3.0	1.5	.4	.0	.00	.00	.00	.08	.20	.34	.52	.75	1.07	1.61	2.15	
Sep	.88	.67	2.10	1977	28	3.25	1977	.00+	1999	4.4	2.5	.4	.1	.00	.00	.11	.30	.48	.66	.87	1.13	1.47	2.02	2.58	
Oct	1.46	1.37	2.61	1962	9	3.91	1979	.00	1987	7.6	4.3	.7	.1	.15	.32	.56	.78	.99	1.22	1.49	1.81	2.23	2.91	3.57	
Nov	2.85	2.23	1.94	1998	22	8.03	1998	.45	1976	14.3	7.6	1.5	.2	.59	.85	1.27	1.65	2.03	2.44	2.90	3.46	4.19	5.36	6.47	
Dec	2.80	2.06	3.00	1964	22	8.37	1995	.65	1985	13.7	7.0	1.5	.3	.43	.66	1.07	1.45	1.86	2.30	2.80	3.42	4.25	5.60	6.89	
Ann	19.76	18.57	3.00	Dec 1964	22	8.37	Dec 1995	.00+	Sep 1999	110.0	55.6	9.4	1.5	12.82	14.11	15.80	17.09	18.26	19.39	20.57	21.89	23.50	25.86	27.92	

+ 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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www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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Station: ASHLAND, OR

COOP ID: 350304

Climate Division: OR 3

NWS Call Sign:

Elevation: 1,724 Feet

Lat: 42° 13N

Lon: 122° 43W

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	2.0	.8	#	0	4.5	1971	13	9.0	1971	6	1971	13	1	1975	1.3	.9	.1	.0	.0	1.1	.2	.1	.0
Feb	1.0	.0	#	0	4.5	1974	28	6.0	1974	3	1974	28	#+	1990	.9	.4	.1	.0	.0	.4	@	.0	.0
Mar	.6	.0	#	0	3.0	1982	28	3.5	1976	1	1989	1	#+	1990	.5	.2	.1	.0	.0	.1	.0	.0	.0
Apr	.1	.0	#	0	2.0	1971	20	2.0	1971	1	1971	20	#	1971	.1	.1	.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	.1	.0	#	0	1.0	1977	21	1.3	1977	#	1979	25	#	1979	.2	.1	.0	.0	.0	.0	.0	.0	.0
Dec	1.7	.0	#	0	5.0	1972	3	9.0	1972	5	1972	3	1	1972	.8	.7	.2	.1	.0	1.1	.7	@	.0
Ann	5.5	.8	N/A	N/A	5.0	Dec 1972	3	9.0+	Dec 1972	6	Jan 1971	13	1+	Jan 1975	3.8	2.4	.5	.1	.0	2.7	.9	.1	.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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Elevation: 1,724 Feet

Lat: 42° 13N

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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	6/11	6/06	6/02	5/30	5/26	5/22	5/18	5/12
32	5/24	5/18	5/14	5/10	5/07	5/04	4/30	4/26	4/21
28	5/07	4/28	4/21	4/16	4/11	4/06	3/31	3/25	3/16
24	4/09	3/28	3/21	3/14	3/07	3/01	2/22	2/14	2/03
20	3/05	2/22	2/14	2/07	1/31	1/25	1/17	1/07	12/20
16	2/03	1/22	1/13	1/04	12/24	12/05	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	9/11	9/16	9/20	9/23	9/26	9/29	10/03	10/07	10/12
32	9/20	9/26	10/01	10/05	10/08	10/12	10/16	10/20	10/27
28	10/15	10/21	10/26	10/30	11/02	11/06	11/10	11/14	11/20
24	10/28	11/06	11/13	11/19	11/24	11/29	12/04	12/11	12/20
20	11/12	11/23	12/01	12/08	12/15	12/22	12/29	1/08	1/26
16	11/30	12/13	12/23	1/03	1/15	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	148	138	131	124	119	113	107	100	90
32	179	171	164	159	154	148	143	136	128
28	239	227	219	211	205	198	191	182	170
24	296	284	275	268	261	254	246	238	226
20	>365	353	336	325	316	307	298	288	274
16	>365	>365	>365	>365	>365	>365	>365	344	327

* 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	828	644	626	484	309	130	40	44	160	405	686	855	5211
60	673	504	471	342	178	50	9	10	76	261	536	700	3810
57	580	420	380	262	118	22	2	2	42	186	447	607	3068
55	518	364	323	213	86	12	0	1	26	143	389	545	2620
50	373	236	190	117	29	1	0	0	6	61	254	397	1664
32	34	7	1	0	0	0	0	0	0	0	10	38	90

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	228	287	398	506	721	898	1122	1099	875	620	314	205	7273
55	0	0	7	30	93	220	409	387	211	50	3	0	1410
57	0	0	3	18	64	170	349	327	166	31	1	0	1129
60	0	0	0	8	31	108	262	241	111	13	0	0	774
65	0	0	0	0	7	38	138	120	45	2	0	0	350
70	0	0	0	0	0	8	56	42	12	0	0	0	118

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	65	122	185	304	501	695	917	895	679	411	132	59	65	187	372	676	1177	1872	2789	3684	4363	4774	4906	4965
45	22	45	81	174	348	545	762	740	529	264	52	18	22	67	148	322	670	1215	1977	2717	3246	3510	3562	3580
50	3	9	26	81	212	396	607	585	379	141	12	1	3	12	38	119	331	727	1334	1919	2298	2439	2451	2452
55	0	1	0	30	108	251	452	430	240	57	0	0	0	1	1	31	139	390	842	1272	1512	1569	1569	1569
60	0	0	0	3	42	134	301	278	129	15	0	0	0	0	0	3	45	179	480	758	887	902	902	902
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	32	74	124	201	322	439	570	554	443	284	69	31	32	106	230	431	753	1192	1762	2316	2759	3043	3112	3143

(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