

Climatography of the United States

No. 20

1971-2000

Station: AUSTIN 3 S, OR

COOP ID: 350356

Climate Division: OR 8

NWS Call Sign:

Elevation: 4,213 Feet Lat: 44° 34N

Lon: 118° 29W

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	35.8	11.1	23.5	59	1967	14	30.8	1981	-38	1951	29	12.0	1979	1288	0	.0	.0	.9	10.6	30.8	7.5
Feb	41.5	14.9	28.2	65+	1996	14	36.0	1992	-35+	1989	6	16.1	1989	1030	0	.0	.0	3.4	3.6	27.9	3.5
Mar	48.2	20.4	34.3	72+	1994	29	40.7	1978	-25	1955	5	28.3	1971	952	0	.0	.0	11.4	.7	30.3	.8
Apr	55.8	25.8	40.8	85	1987	28	47.1	1987	4	1975	5	33.5	1975	727	0	.0	.0	20.1	.0	26.7	.0
May	63.9	31.5	47.7	92	1983	29	53.0	1993	13	1954	1	42.8	1977	536	0	.0	.1	27.3	.0	17.9	.0
Jun	72.5	36.4	54.5	97	1994	29	59.1	1986	21+	1996	19	51.1	1976	320	3	.0	1.0	29.6	.0	8.5	.0
Jul	82.2	39.8	61.0	101	1960	18	65.3	1998	22+	1953	28	53.3	1993	158	33	@	6.4	31.0	.0	3.3	.0
Aug	83.2	38.6	60.9	103	1961	4	67.0	1971	22+	1992	24	55.5	1980	162	35	.1	7.3	31.0	.0	5.2	.0
Sep	74.0	31.4	52.7	99+	1998	5	59.6	1998	12	1961	30	46.6	1985	376	7	@	1.4	29.3	.0	17.8	.0
Oct	61.9	25.1	43.5	89	1996	10	51.4	1988	-5+	1971	30	39.7	1984	667	0	.0	.0	25.5	.1	27.2	.1
Nov	43.6	20.6	32.1	73	1949	1	37.2	1976	-29	1955	15	23.5	1985	987	0	.0	.0	6.3	2.8	28.4	1.3
Dec	35.9	12.5	24.2	60	1956	1	30.2	1977	-37+	1983	24	15.7	1990	1264	0	.0	.0	.8	10.0	30.7	4.9
Ann	58.2	25.7	42.0	103	Aug 1961	4	67.0	Aug 1971	-38	Jan 1951	29	12.0	Jan 1979	8467	78	.1	16.2	216.6	27.8	254.7	18.1

+ 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

007-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: AUSTIN 3 S, OR

COOP ID: 350356

Climate Division: OR 8

NWS Call Sign:

Elevation: 4,213 Feet Lat: 44°34N

Lon: 118°29W

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	2.72	2.81	1.78	1982	23	5.00	1998	.20	1985	14.1	8.3	1.2	.1	.85	1.11	1.49	1.82	2.14	2.47	2.83	3.26	3.81	4.66	5.45
Feb	2.00	1.86	1.43	1982	16	4.87	1999	.76	1973	13.1	7.2	.5	@	.69	.87	1.15	1.38	1.61	1.83	2.08	2.38	2.75	3.33	3.86
Mar	2.01	1.98	1.06	1952	24	3.55	1983	.44	1994	13.3	7.1	.4	@	.74	.93	1.20	1.43	1.64	1.86	2.10	2.38	2.74	3.29	3.79
Apr	1.45	1.30	1.62	1963	20	2.78	1990	.15	1998	10.5	5.4	.3	@	.38	.51	.73	.91	1.10	1.29	1.50	1.76	2.09	2.61	3.10
May	1.66	1.33	1.20	1953	19	4.32	1991	.38	1992	10.5	5.6	.4	.1	.42	.58	.82	1.03	1.24	1.46	1.71	2.00	2.39	2.99	3.55
Jun	1.49	1.34	1.20	1969	9	3.12	1980	.07	1986	8.7	4.5	.6	.0	.26	.39	.61	.81	1.02	1.24	1.50	1.81	2.23	2.90	3.54
Jul	.90	.72	1.43	1987	22	2.57	1975	.00	1988	4.9	2.6	.4	.1	.01	.06	.16	.28	.43	.60	.81	1.08	1.47	2.13	2.81
Aug	.96	.61	2.04	1984	31	3.57	1984	.00	2000	5.3	2.5	.4	.1	.02	.09	.22	.35	.51	.69	.90	1.17	1.55	2.20	2.84
Sep	1.00	.86	1.17	1959	26	2.63	1982	.00+	1999	5.9	2.8	.3	.0	.00	.09	.26	.42	.58	.77	.98	1.24	1.60	2.19	2.77
Oct	1.12	1.16	1.30	1968	12	2.98	1975	.00+	1988	6.9	3.8	.3	.0	.00	.15	.36	.54	.72	.92	1.14	1.40	1.76	2.34	2.90
Nov	2.79	2.60	1.98	1995	28	7.03	1973	.48	1976	14.5	8.5	1.1	.1	.63	.89	1.30	1.67	2.03	2.42	2.86	3.38	4.07	5.16	6.19
Dec	3.00	2.94	1.74	1964	23	6.83	1996	.38	1976	14.7	9.5	1.3	.1	.57	.84	1.28	1.69	2.10	2.54	3.05	3.66	4.47	5.77	7.01
Ann	21.10	20.25	2.04	Aug 1984	31	7.03	Nov 1973	.00+	Aug 2000	122.4	67.8	7.2	.6	14.99	16.17	17.69	18.84	19.86	20.85	21.87	22.99	24.36	26.35	28.06

+ 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

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: AUSTIN 3 S, OR

COOP ID: 350356

Climate Division: OR 8

NWS Call Sign:

Elevation: 4,213 Feet

Lat: 44° 34N

Lon: 118° 29W

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	21.5	20.8	16	17	16.0	1982	23	43.0	1996	37	1975	10	29	1993	9.8	8.7	3.1	1.1	.1	28.3	27.8	26.3	24.2
Feb	15.4	13.8	17	18	8.5	1975	2	46.5	1999	36	1989	19	29	1989	7.5	6.6	1.8	.5	.0	25.8	25.2	23.0	21.2
Mar	9.8	10.1	9	9	8.0	1995	5	20.0	1989	34	1989	6	23	1975	5.7	5.0	1.1	.3	.0	20.0	16.6	14.1	10.1
Apr	4.9	3.0	1	#	10.0	1975	16	23.5	1975	24	1975	6	14	1975	2.7	2.3	.5	.1	.1	3.8	1.6	1.0	.4
May	.5	.0	#	0	3.0	2000	11	3.0	2000	3	2000	11	#+	2000	.4	.3	@	.0	.0	.3	@	.0	.0
Jun	.0	.0	0	0	.5	1993	12	.5	1993	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	.1	.0	#	0	2.0	1984	23	2.0	1984	#	1971	30	#	1971	.1	@	.0	.0	.0	.0	.0	.0	.0
Oct	1.1	.0	#	0	4.0	1971	31	7.5	1991	6	1971	31	1	1971	.8	.6	.1	.0	.0	.7	.2	@	.0
Nov	14.5	11.1	2	2	16.0	1995	28	36.0	1973	18+	1994	29	11	1994	6.5	5.7	2.0	.8	.1	10.5	6.1	3.4	.9
Dec	24.6	20.1	9	9	19.0	1988	30	52.0	1983	34	1971	13	26	1971	10.1	8.8	2.9	1.0	@	27.7	24.8	20.0	12.3
Ann	92.4	78.9	N/A	N/A	19.0	Dec 1988	30	52.0	Dec 1983	37	Jan 1975	10	29+	Jan 1993	43.6	38.0	11.5	3.8	.3	117.1	102.3	87.8	69.1

+ 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:

www.ncdc.noaa.gov/oa/climate/normal/usnormals.html

**Climatography
of the United States
No. 20
1971-2000**

Station: AUSTIN 3 S, OR

COOP ID: 350356

Climate Division: OR 8

NWS Call Sign:

Elevation: 4,213 Feet

Lat: 44° 34N

Lon: 118° 29W

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	8/02	7/30	7/28	7/27	7/25	7/23	7/22	7/20	7/17
32	7/28	7/24	7/21	7/18	7/15	7/13	7/10	7/07	7/02
28	7/13	7/06	7/01	6/26	6/22	6/18	6/13	6/08	6/01
24	6/10	6/02	5/28	5/24	5/19	5/15	5/11	5/05	4/28
20	5/13	5/07	5/02	4/28	4/24	4/20	4/16	4/11	4/04
16	4/26	4/19	4/14	4/09	4/05	4/01	3/28	3/23	3/16
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	8/02	8/03	8/04	8/06	8/07	8/08	8/09	8/11
32	8/01	8/07	8/11	8/14	8/17	8/20	8/24	8/28	9/03
28	8/14	8/20	8/24	8/27	8/30	9/02	9/06	9/10	9/15
24	9/04	9/09	9/12	9/15	9/18	9/20	9/23	9/26	10/01
20	9/18	9/25	9/29	10/03	10/07	10/10	10/14	10/19	10/25
16	9/29	10/06	10/11	10/15	10/19	10/23	10/27	11/01	11/08
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	21	17	15	13	11	9	7	4	1
32	51	45	40	36	32	29	25	20	14
28	93	85	79	73	69	64	59	52	44
24	146	137	131	126	120	115	110	104	95
20	190	182	175	170	165	160	155	149	140
16	221	212	206	201	196	191	185	179	171

* 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:

www.ncdc.noaa.gov/oa/climate/normal/usnormals.html

**Climatography
of the United States
No. 20
1971-2000**

Station: AUSTIN 3 S, OR

COOP ID: 350356

Climate Division: OR 8

NWS Call Sign:

Elevation: 4,213 Feet Lat: 44° 34N

Lon: 118° 29W

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	1288	1030	952	727	536	320	158	162	376	667	987	1264	8467
60	1133	890	797	577	382	187	69	74	245	512	837	1109	6812
57	1040	806	704	487	293	122	34	38	178	420	747	1016	5885
55	978	750	642	427	237	86	19	23	139	360	687	954	5302
50	823	610	488	287	120	27	3	4	65	220	537	799	3983
32	303	182	77	13	0	0	0	0	0	4	117	278	974

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	38	76	147	277	487	673	899	896	620	360	120	37	4630
55	0	0	0	1	11	70	205	206	70	3	0	0	566
57	0	0	0	0	5	45	157	159	48	1	0	0	415
60	0	0	0	0	1	20	100	102	25	0	0	0	248
65	0	0	0	0	0	3	33	35	7	0	0	0	78
70	0	0	0	0	0	0	7	8	0	0	0	0	15

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	1	16	99	246	432	649	642	381	155	13	0	0	1	17	116	362	794	1443	2085	2466	2621	2634	2634
45	0	0	0	38	138	288	494	487	251	69	0	0	0	0	0	38	176	464	958	1445	1696	1765	1765	1765
50	0	0	0	8	63	167	342	335	141	21	0	0	0	0	0	8	71	238	580	915	1056	1077	1077	1077
55	0	0	0	0	20	74	206	197	60	3	0	0	0	0	0	0	20	94	300	497	557	560	560	560
60	0	0	0	0	4	27	94	90	14	0	0	0	0	0	0	0	4	31	125	215	229	229	229	229
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	9	40	109	215	332	471	478	351	200	16	0	0	9	49	158	373	705	1176	1654	2005	2205	2221	2221

(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