

Climatography of the United States

No. 20

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

Station: NEWPORT, OR

1971-2000

COOP ID: 356032

Climate Division: OR 1

NWS Call Sign: JNW

Elevation: 122 Feet Lat: 44° 39N

Lon: 124° 03W

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	51.4	38.6	45.0	69	1981	18	49.9	1981	11	1957	26	37.1	1979	619	0	.0	.0	19.4	.1	5.5	.0
Feb	53.5	39.2	46.4	77	1968	28	52.3	1992	12+	1989	4	39.2	1989	522	0	.0	.0	21.2	.2	3.8	.0
Mar	54.7	39.8	47.3	77	1947	14	51.3	1992	22	1955	5	43.1	1971	535	0	.0	.0	26.3	.0	3.1	.0
Apr	56.7	41.0	48.9	88	1947	15	53.1	1992	23	1987	18	43.5	1975	484	0	.0	.0	28.7	.0	1.7	.0
May	59.8	44.8	52.3	91	1947	23	57.2	1997	30	1954	1	49.5	1971	393	0	.0	.0	30.9	.0	@	.0
Jun	62.7	48.4	55.6	94	1995	28	58.4	1997	33+	1933	14	52.6	1971	284	0	.0	.1	30.0	.0	.0	.0
Jul	65.0	50.7	57.9	100	1961	11	60.6	1995	33	1985	21	55.3	1986	222	0	.0	@	31.0	.0	.0	.0
Aug	65.7	50.9	58.3	97	1944	29	62.3	1997	37	1986	16	54.0	1986	213	5	.0	.0	31.0	.0	.0	.0
Sep	65.3	49.0	57.2	96+	1994	21	61.7	1997	32	1972	27	54.0	1972	239	3	.0	.1	30.0	.0	@	.0
Oct	61.2	44.9	53.1	94+	1991	10	55.2	1979	25	1971	29	50.0	1971	370	0	.0	.0	30.8	.0	.3	.0
Nov	55.0	41.9	48.5	79	1962	1	53.5	1995	18	1985	24	39.9	1985	498	0	.0	.0	26.7	@	2.4	.0
Dec	51.4	38.8	45.1	69	1980	15	48.2	1995	1	1972	8	38.6	1978	617	0	.0	.0	20.5	.5	5.0	.0
Ann	58.5	44.0	51.3	100	Jul 1961	11	62.3	Aug 1997	1	Dec 1972	8	37.1	Jan 1979	4996	8	.0	.2	326.5	.8	21.8	.0

+ 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: 1931-2001

(3) Derived from 1971-2000 serially complete daily data

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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	10.25	11.58	4.60	1965	28	16.54	1983	.68	1985	20.6	16.5	7.1	2.9	2.79	3.76	5.24	6.53	7.80	9.13	10.60	12.35	14.62	18.18	21.50
Feb	8.69	8.16	3.26	1995	17	16.81	1999	1.56	1993	18.6	14.7	6.2	2.3	2.90	3.72	4.93	5.95	6.94	7.95	9.06	10.36	12.02	14.60	16.99
Mar	7.74	7.60	4.36	1931	31	13.84	1983	1.22	1992	20.8	15.5	5.7	1.6	2.75	3.48	4.54	5.43	6.27	7.14	8.09	9.19	10.61	12.78	14.78
Apr	4.87	4.86	2.49	1971	9	8.41	1996	1.20	1977	17.4	11.7	2.9	.6	1.62	2.09	2.76	3.34	3.89	4.46	5.08	5.81	6.75	8.20	9.53
May	3.68	3.34	2.15	1963	5	7.21	1988	.34	1992	15.4	9.2	2.1	.5	1.04	1.39	1.92	2.38	2.83	3.30	3.81	4.43	5.22	6.47	7.63
Jun	2.72	2.64	3.51	1968	1	5.86	1985	.41	1992	11.8	6.5	1.7	.4	.64	.90	1.29	1.65	2.00	2.38	2.80	3.30	3.95	5.00	5.97
Jul	1.04	.85	1.45	1986	4	3.30	1974	.13	1973	6.7	2.3	.5	.1	.14	.22	.37	.51	.67	.83	1.03	1.27	1.59	2.12	2.64
Aug	1.02	.66	1.72	1968	23	3.19	1978	.07	1998	7.5	2.7	.5	.1	.08	.15	.28	.42	.58	.76	.97	1.24	1.61	2.24	2.86
Sep	2.39	1.69	2.60	1935	14	6.32	1971	.03	1975	9.3	4.7	1.6	.4	.09	.20	.46	.77	1.14	1.58	2.13	2.86	3.89	5.67	7.47
Oct	5.12	4.63	3.30+	1994	31	11.39	1975	.13	1987	14.4	9.1	3.7	1.1	.78	1.21	1.95	2.66	3.39	4.20	5.13	6.26	7.78	10.25	12.63
Nov	10.67	9.77	4.99	1996	19	22.13	1973	2.06	1976	21.2	16.6	7.6	2.8	3.30	4.31	5.82	7.11	8.37	9.67	11.10	12.78	14.94	18.32	21.45
Dec	11.38	11.86	3.90	1996	25	22.44	1996	2.88	1976	21.3	16.2	7.9	3.4	3.79	4.87	6.45	7.79	9.08	10.41	11.86	13.56	15.75	19.14	22.26
Ann	69.57	68.56	4.99	Nov 1996	19	22.44	Dec 1996	.03	Sep 1975	185.0	125.7	47.5	16.2	46.62	50.96	56.58	60.88	64.72	68.46	72.34	76.66	81.91	89.59	96.27

+ 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

Complete documentation available from:

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Lat: 44° 39N

Lon: 124° 03W

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	.3	.0	#	0	4.0	1972	26	4.5	1972	4	1972	26	#	1982	.2	.1	@	.0	.0	.1	@	.0	.0
Feb	.2	.0	#	0	3.0	1989	2	4.0	1989	2	1990	13	#	1990	.1	.1	@	.0	.0	@	.0	.0	.0
Mar	#	.0	0	0	#	1985	27	#+	1985	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Apr	#	.0	0	0	#	1982	14	#+	1982	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
May	#	.0	#	0	#	1974	15	#+	1974	0	0	0	#	1990	.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	#	.0	0	0	#	1985	30	#+	1985	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.6	.0	#	0	9.0	1972	5	11.0	1972	11	1972	6	2	1972	.2	.2	@	@	.0	.4	.2	.2	@
Ann	1.1	.0	N/A	N/A	9.0	Dec 1972	5	11.0	Dec 1972	11	Dec 1972	6	2	Dec 1972	.5	.4	@	@	.0	.5	.2	.2	.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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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	6/06	5/26	5/17	5/10	5/04	4/27	4/20	4/12	3/31
32	5/05	4/19	4/08	3/30	3/21	3/12	3/02	2/19	2/04
28	3/20	3/08	2/27	2/18	2/10	2/02	1/22	1/02	0/00
24	2/16	1/30	1/17	1/04	12/20	11/23	0/00	0/00	0/00
20	1/19	12/31	12/05	0/00	0/00	0/00	0/00	0/00	0/00
16	1/10	12/22	0/00	0/00	0/00	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	10/06	10/14	10/20	10/25	10/30	11/03	11/08	11/14	11/22
32	10/09	10/26	11/08	11/18	11/28	12/08	12/19	12/31	1/18
28	11/12	11/25	12/04	12/13	12/21	12/30	1/10	1/31	0/00
24	11/26	12/16	12/31	1/15	2/02	3/04	0/00	0/00	0/00
20	12/11	1/02	1/31	0/00	0/00	0/00	0/00	0/00	0/00
16	12/26	1/15	0/00	0/00	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	224	208	197	187	178	169	159	148	132
32	334	296	276	260	246	232	218	201	178
28	>365	>365	>365	346	321	304	288	272	251
24	>365	>365	>365	>365	>365	>365	>365	>365	326
20	>365	>365	>365	>365	>365	>365	>365	>365	>365
16	>365	>365	>365	>365	>365	>365	>365	>365	>365

* 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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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	619	522	535	484	393	284	222	213	239	370	498	617	4996
60	464	382	396	334	240	140	87	89	111	216	352	462	3273
57	376	303	307	248	157	73	35	42	59	131	269	373	2373
55	318	250	249	193	110	41	14	20	32	84	217	316	1844
50	187	136	125	84	31	4	0	2	4	17	115	185	890
32	1	0	0	0	0	0	0	0	0	0	0	0	1

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	405	402	472	506	630	707	802	815	754	653	493	406	7045
55	9	8	8	9	27	58	102	122	96	24	20	8	491
57	5	4	4	4	12	29	62	82	63	9	11	3	288
60	0	0	0	0	3	7	20	36	26	1	4	0	97
65	0	0	0	0	0	0	0	5	3	0	0	0	8
70	0	0	0	0	0	0	0	0	0	0	0	0	0

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	177	201	226	268	383	470	556	579	528	413	265	184	177	378	604	872	1255	1725	2281	2860	3388	3801	4066	4250
45	70	88	93	126	228	320	401	424	378	261	135	70	70	158	251	377	605	925	1326	1750	2128	2389	2524	2594
50	10	26	27	34	89	171	246	269	228	123	41	11	10	36	63	97	186	357	603	872	1100	1223	1264	1275
55	0	3	0	2	20	46	97	118	93	35	3	0	0	3	3	5	25	71	168	286	379	414	417	417
60	0	0	0	0	0	2	9	21	23	6	0	0	0	0	0	0	0	2	11	32	55	61	61	61
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	46	66	75	99	154	204	269	288	265	193	93	47	46	112	187	286	440	644	913	1201	1466	1659	1752	1799

(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