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: EVERETT, PA **COOP ID: 362721**

Climate Division: PA 8 **NWS Call Sign:** **Elevation: 1,000 Feet** **Lat: 40˚01N** **Lon: 78˚22W**

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	35.3	17.6	26.5	77	1950	25	36.0	1998	-27	1994	21	14.6	1977	1196	0	.0	.0	3.7	11.4	28.6	1.6
Feb	39.0	19.8	29.4	77	1997	28	36.0	1998	-12	1961	2	17.1	1979	997	0	.0	.0	5.6	7.6	24.9	.9
Mar	47.9	27.7	37.8	86+	1945	29	43.4	2000	-3	1993	15	31.8	1984	845	0	.0	.0	13.5	2.5	22.1	.2
Apr	59.9	36.4	48.2	95	1976	19	53.0	1981	15	1969	1	41.5	1975	507	1	.0	.1	24.3	.1	9.2	.0
May	70.3	46.1	58.2	98	1964	23	66.8	1991	24+	1945	2	52.4	1973	239	29	.0	.3	30.7	.0	1.5	.0
Jun	78.3	54.2	66.3	105	1946	28	70.5	1994	25	1980	11	58.8	1974	71	109	.0	1.8	30.0	.0	@	.0
Jul	82.4	59.3	70.9	108	1966	2	74.8	1991	37	1981	30	67.6	2000	13	195	@	4.9	31.0	.0	.0	.0
Aug	81.0	57.6	69.3	100+	1943	12	73.6	1995	31	1982	29	65.8	1982	19	153	@	3.2	31.0	.0	@	.0
Sep	73.9	50.5	62.2	104	1953	3	67.2	1998	25+	1947	27	58.8	1975	113	28	.0	.9	30.0	.0	.5	.0
Oct	63.1	38.8	51.0	92	1951	5	57.2	1984	16	1988	31	46.0	1976	440	4	.0	.0	29.1	.0	8.3	.0
Nov	50.5	30.6	40.6	84	1971	3	45.8	1985	2	1958	30	35.1	1976	733	0	.0	.0	16.9	.8	17.4	.0
Dec	39.7	22.9	31.3	77	2001	6	39.6	1984	-12	1960	22	19.2	1989	1045	0	.0	.0	5.9	6.4	26.1	.4
Ann	60.1	38.5	49.3	108	Jul 1966	2	74.8	Jul 1991	-27	Jan 1994	21	14.6	Jan 1977	6218	519	.0	11.2	251.7	28.8	138.6	3.1

\+ 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: 1943-2001

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

Issue Date: February 2004

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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	2.35	1.83	1.90	1978	26	6.00	1999	.06	1981
Feb	2.27	2.00	2.09	1962	24	4.88	1998	.41	1978
Mar	2.95	2.86	2.33	1954	1	5.93	1994	.61	1981
Apr	3.38	2.80	3.30	1964	21	9.35	1993	.83+	1997
May	3.88	3.71	2.01	1982	30	6.59	1988	1.01	1991
Jun	3.78	2.99	5.31	1995	27	11.10	1995	.84	1991
Jul	3.66	3.06	4.30	1977	20	9.86	1989	.12	1983
Aug	3.17	2.77	3.61	1990	20	7.23	1990	.68	1989
Sep	3.22	2.87	3.10	1967	28	9.26	1996	1.17	1984
Oct	3.16	2.72	3.94	1954	15	12.55	1976	.60	1992
Nov	3.29	3.19	3.70	1993	28	9.39	1997	.35	1998
Dec	2.58	2.37	1.98	1996	2	5.66	1990	.37	1989
Ann	37.69	37.19	5.31	Jun 1995	27	12.55	Oct 1976	.06	Jan 1981

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.0	6.0	1.6	.5
Feb	8.8	5.3	1.4	.3
Mar	10.2	6.8	2.2	.5
Apr	11.6	7.3	2.3	.6
May	12.6	8.5	2.6	.5
Jun	11.3	7.4	2.5	.7
Jul	10.2	6.7	2.6	.8
Aug	9.5	6.2	2.0	.8
Sep	10.1	6.4	2.2	.5
Oct	9.4	5.4	2.0	.8
Nov	10.6	6.4	2.1	.8
Dec	9.7	5.6	1.7	.4
Ann	124.0	78.0	25.2	7.2

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	.42	.63	.97	1.29	1.62	1.97	2.37	2.86	3.51	4.56	5.56
Feb	.60	.81	1.14	1.43	1.72	2.02	2.35	2.74	3.26	4.07	4.82
Mar	1.04	1.31	1.72	2.06	2.39	2.72	3.09	3.51	4.05	4.89	5.67
Apr	.88	1.20	1.69	2.12	2.55	2.99	3.49	4.08	4.85	6.07	7.20
May	1.45	1.82	2.34	2.77	3.18	3.61	4.06	4.59	5.27	6.31	7.26
Jun	1.02	1.37	1.92	2.40	2.87	3.36	3.91	4.56	5.41	6.73	7.97
Jul	.65	.97	1.51	2.01	2.52	3.07	3.70	4.46	5.47	7.11	8.67
Aug	1.07	1.37	1.81	2.18	2.54	2.91	3.31	3.78	4.38	5.32	6.18
Sep	.97	1.27	1.73	2.13	2.51	2.91	3.35	3.86	4.53	5.57	6.54
Oct	.56	.84	1.30	1.74	2.18	2.65	3.20	3.86	4.74	6.15	7.50
Nov	.81	1.12	1.60	2.02	2.45	2.89	3.39	3.98	4.75	5.97	7.12
Dec	.64	.88	1.26	1.59	1.92	2.27	2.66	3.12	3.73	4.69	5.58
Ann	27.40	29.41	31.98	33.92	35.64	37.30	39.01	40.90	43.18	46.49	49.34

\+ 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: 1943-2001
(3) Derived from 1971-2000 serially complete daily data

Complete documentation available from:
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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	5.3	5.0	3	2
Feb	6.8	5.3	2	1
Mar	2.8	.9	1	#
Apr	#	.0	#	0
May	.0	.0	0	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	#	.0	0	0
Nov	1.8	.0	#	0
Dec	3.4	1.5	#	#
Ann	20.1	12.7	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	18.0	1996	8	18.0	1996	30	1996	13	11	1996
Feb	7.5	1994	23	14.0	1971	12+	2000	1	7	1994
Mar	17.0	1999	15	17.0	1999	19	1994	3	5	1994
Apr	#	1996	9	#	1996	4	1982	9	1	1982
May	.0	0	0	.0	0	0	0	0	0	0
Jun	.0	0	0	.0	0	0	0	0	0	0
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	.0	0	0	.0	0	0	0	0	0	0
Oct	#	1972	19	#	1972	0	0	0	0	0
Nov	13.0	1971	25	13.0	1971	13	1971	25	1	1995
Dec	5.1	1997	30	8.0	2000	7	1973	21	2+	2000
Ann	18.0	Jan 1996	8	18.0	Jan 1996	30	Jan 1996	13	11	Jan 1996

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	1.9	1.7	.9	.4	.1
Feb	1.9	1.4	.9	.2	.0
Mar	1.4	1.2	.4	.2	.1
Apr	.0	.0	.0	.0	.0
May	.0	.0	.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	.0	.0	.0	.0	.0
Nov	.3	.3	.2	.1	.1
Dec	1.2	1.0	.6	.2	.0
Ann	6.7	5.6	3.0	1.1	.3

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	-9.9	-9.9	-9.9	-9.9
Feb	-9.9	-9.9	-9.9	-9.9
Mar	.7	.0	.0	.0
Apr	.0	.0	.0	.0
May	.0	.0	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.0	.0	.0	.0
Nov	.9	.7	.2	.1
Dec	2.8	1.5	.9	.0
Ann	-9.9	-9.9	-9.9	-9.9

+ 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	6/03	5/29	5/24	5/21	5/17	5/14	5/10	5/06	4/30
32	5/22	5/16	5/12	5/08	5/05	5/02	4/28	4/24	4/18
28	5/10	5/03	4/29	4/24	4/21	4/17	4/13	4/08	4/01
24	4/17	4/13	4/10	4/07	4/05	4/02	3/31	3/28	3/24
20	4/07	4/03	3/30	3/27	3/25	3/22	3/19	3/16	3/11
16	3/27	3/22	3/19	3/16	3/13	3/10	3/07	3/04	2/27

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

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	154	145	139	134	129	124	119	112	104
32	178	170	164	158	153	148	143	137	128
28	207	198	192	186	181	176	171	164	155
24	227	221	216	212	208	204	200	195	189
20	257	250	244	240	235	231	226	221	213
16	287	279	273	268	263	258	254	248	240

***** 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	1196	997	845	507	239	71	13	19	113	440	733	1045	6218
60	1041	857	690	362	134	23	1	2	38	298	583	890	4919
57	948	773	597	280	86	10	0	0	16	224	493	797	4224
55	886	717	535	230	61	5	0	0	8	180	434	735	3791
50	731	577	389	126	20	0	0	0	1	94	293	588	2819
32	263	170	47	1	0	0	0	0	0	0	14	163	658

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	90	97	225	485	813	1027	1205	1156	905	587	271	142	7003
55	0	0	1	24	160	342	492	443	223	54	1	0	1740
57	0	0	0	14	123	287	430	381	171	36	0	0	1442
60	0	0	0	6	78	210	338	290	103	17	0	0	1042
65	0	0	0	1	29	109	195	153	28	4	0	0	519
70	0	0	0	0	7	41	87	59	3	0	0	0	197

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	18	28	100	282	584	816	983	940	693	371	134	32	18	46	146	428	1012	1828	2811	3751	4444	4815	4949	4981
45	2	6	48	168	433	666	828	785	544	231	68	10	2	8	56	224	657	1323	2151	2936	3480	3711	3779	3789
50	0	2	22	90	288	516	673	630	397	129	28	2	0	2	24	114	402	918	1591	2221	2618	2747	2775	2777
55	0	0	5	43	168	367	518	476	259	58	10	0	0	0	5	48	216	583	1101	1577	1836	1894	1904	1904
60	0	0	1	17	83	232	364	325	147	19	2	0	0	0	1	18	101	333	697	1022	1169	1188	1190	1190
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	10	23	71	180	354	528	654	620	441	238	88	18	10	33	104	284	638	1166	1820	2440	2881	3119	3207	3225

(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