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: BLOSERVILLE 1 N, PA **COOP ID: 360763**

Climate Division: PA 4 **NWS Call Sign:** **Elevation: 700 Feet** **Lat: 40˚16N** **Lon: 77˚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	35.2	19.6	27.4	71	1967	26	36.8	1998	-19+	1994	19	16.5	1977	1167	0	.0	.0	3.0	10.6	28.6	.9
Feb	38.8	21.8	30.3	77	1997	28	37.8	1998	-6	1979	18	20.1	1979	971	0	.0	.0	4.8	7.5	24.1	.5
Mar	48.2	29.8	39.0	85	1986	31	44.8	1977	2+	1980	2	30.2	1984	806	0	.0	.0	14.1	1.7	19.5	.0
Apr	59.8	39.2	49.5	93	1976	19	55.0	1985	13	1982	7	44.3	1975	465	1	.0	.2	25.1	.0	6.2	.0
May	70.3	48.8	59.6	95	1996	20	66.5	1991	26	1981	8	54.5	1978	210	38	.0	.4	30.7	.0	.6	.0
Jun	78.5	57.5	68.0	98	1966	28	73.3	1991	37+	1972	11	62.7	1978	44	129	.0	2.3	30.0	.0	.0	.0
Jul	82.9	62.6	72.8	102	1966	4	77.0	1988	44	1979	6	66.8	2000	9	248	.1	6.3	31.0	.0	.0	.0
Aug	81.1	60.9	71.0	100+	1983	21	75.7	1991	42+	1976	31	67.3	1982	13	198	.1	3.6	31.0	.0	.0	.0
Sep	73.5	53.4	63.5	98	1983	11	67.9	1998	31+	1974	24	59.1	1975	96	49	.0	1.0	30.0	.0	.1	.0
Oct	62.2	42.0	52.1	89	1986	1	57.2	1971	20	1976	28	47.5	1976	404	4	.0	.0	29.4	.0	3.1	.0
Nov	50.6	33.9	42.3	82	1982	2	47.3	1975	6	1976	30	36.8	1976	683	0	.0	.0	17.4	.5	13.7	.0
Dec	39.7	24.8	32.3	77	1982	5	39.8	1998	-3	1960	23	21.3	1989	1016	0	.0	.0	5.3	5.8	25.9	.2
Ann	60.1	41.2	50.7	102	Jul 1966	4	77.0	Jul 1988	-19+	Jan 1994	19	16.5	Jan 1977	5884	667	.2	13.8	251.8	26.1	121.8	1.6

\+ 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: 1948-2001

(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	3.17	2.70	1.95	1978	9	10.41	1979	.20	1981
Feb	2.65	2.04	2.90	1984	15	6.62	1981	.53	1987
Mar	3.34	3.38	3.72	1952	11	7.38	1994	.91	1988
Apr	3.35	2.99	2.03	1970	2	8.06	1993	.60	1985
May	4.16	3.87	2.87	1963	18	7.74	1989	.57	1977
Jun	4.18	3.94	4.58	1972	23	13.46	1972	.60	1991
Jul	3.93	4.06	4.30	1970	10	9.87	1989	.82	1983
Aug	3.36	3.16	6.85	1955	13	9.31	1990	.38	1989
Sep	4.28	3.37	6.75	1997	11	12.38	1996	1.00	1986
Oct	3.22	2.52	4.12	1955	14	10.34	1976	.77	1988
Nov	3.19	2.82	2.67	1997	8	6.36	1972	.62	1976
Dec	2.99	2.68	1.93	1950	4	6.92	1972	.00	1988
Ann	41.82	42.10	6.85	Aug 1955	13	13.46	Jun 1972	.00	Dec 1988

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	8.8	6.4	2.4	.9
Feb	7.4	5.3	2.0	.5
Mar	8.5	6.7	2.5	.8
Apr	8.9	6.7	2.4	.8
May	11.2	8.2	3.0	1.0
Jun	10.0	7.3	2.9	1.1
Jul	9.0	7.3	2.7	1.0
Aug	7.5	5.4	2.1	1.0
Sep	8.7	6.6	2.5	1.1
Oct	7.3	5.4	2.0	.8
Nov	7.9	6.0	2.1	.9
Dec	8.0	5.5	2.3	.9
Ann	103.2	76.8	28.9	10.8

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	.59	.88	1.34	1.77	2.21	2.68	3.21	3.86	4.72	6.10	7.42
Feb	.64	.89	1.28	1.62	1.96	2.33	2.73	3.21	3.84	4.84	5.78
Mar	.97	1.29	1.76	2.18	2.58	3.00	3.47	4.02	4.73	5.84	6.87
Apr	.90	1.22	1.70	2.13	2.54	2.98	3.47	4.05	4.80	5.98	7.08
May	1.51	1.90	2.46	2.94	3.39	3.85	4.35	4.93	5.68	6.82	7.88
Jun	1.16	1.56	2.16	2.69	3.20	3.74	4.33	5.04	5.95	7.38	8.72
Jul	1.39	1.77	2.30	2.75	3.18	3.63	4.11	4.67	5.39	6.50	7.51
Aug	.73	1.04	1.53	1.98	2.42	2.90	3.44	4.08	4.92	6.27	7.54
Sep	.78	1.17	1.79	2.38	2.97	3.61	4.34	5.22	6.40	8.28	10.08
Oct	.66	.95	1.42	1.85	2.29	2.76	3.28	3.92	4.76	6.10	7.37
Nov	.82	1.13	1.59	2.00	2.40	2.82	3.29	3.85	4.58	5.73	6.81
Dec	.61	1.03	1.53	1.94	2.32	2.71	3.15	3.66	4.31	5.33	6.28
Ann	29.63	31.99	35.02	37.31	39.35	41.33	43.36	45.62	48.35	52.32	55.75

\+ 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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Snow (inches)

Snow Totals

Means/Medians (1)

Extremes (2)

Mean Number of Days (1)

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	6.9	4.9	1	#	16.0	1971	1	22.4	1971	29	1994	17	16	1994	2.6	2.1	.8	.4	@	3.6	1.6	.7	.3
Feb	5.6	5.5	2	#	12.0	1983	12	16.0	1983	24	1978	18	24	1978	2.1	1.7	.6	.3	@	1.8	.4	.1	.0
Mar	4.4	2.5	#	#	10.0	1989	6	22.0	1984	15	1993	14	2	1993	1.2	.9	.6	.2	@	.6	.2	.1	.0
Apr	.3	.0	#	0	5.0	1985	9	6.5	1985	7	1982	6	1	1982	.1	.1	@	@	.0	.1	.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	#	1981	19	#+	1981	#	1972	19	#	1972	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	1.2	.0	#	0	9.0	1971	25	12.0	1971	6	1971	26	1	1971	.4	.3	.1	.1	.0	.1	.1	.0	.0
Dec	2.8	1.0	#	#	10.0	1990	28	11.6	1973	13	1977	9	1	1995	1.1	.8	.4	.1	@	1.0	.5	.2	.1
Ann	21.2	13.9	N/A	N/A	16.0	Jan 1971	1	22.4	Jan 1971	29	Jan 1994	17	24	Feb 1978	7.5	5.9	2.5	1.1	@	7.2	2.8	1.1	.4

+ 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	5/17	5/13	5/09	5/07	5/04	5/01	4/29	4/26	4/21
32	5/11	5/05	4/30	4/26	4/23	4/19	4/16	4/11	4/05
28	4/25	4/20	4/17	4/14	4/11	4/08	4/05	4/01	3/27
24	4/11	4/06	4/02	3/30	3/27	3/24	3/20	3/17	3/11
20	4/04	3/30	3/26	3/23	3/20	3/17	3/14	3/10	3/05
16	3/27	3/21	3/16	3/13	3/09	3/05	3/02	2/25	2/19

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	9/25	9/29	10/03	10/05	10/08	10/11	10/13	10/17	10/21
32	10/02	10/08	10/12	10/16	10/19	10/23	10/26	10/30	11/05
28	10/17	10/22	10/26	10/29	11/01	11/04	11/08	11/12	11/17
24	10/26	11/03	11/08	11/12	11/16	11/20	11/25	11/30	12/07
20	11/13	11/19	11/23	11/27	11/30	12/04	12/07	12/12	12/17
16	11/29	12/05	12/09	12/13	12/16	12/20	12/23	12/28	1/03

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	177	170	165	160	156	152	148	143	136
32	205	196	189	184	179	173	168	161	153
28	227	219	214	209	204	199	194	189	181
24	262	252	245	239	234	228	222	215	205
20	276	269	263	259	254	250	246	240	233
16	308	299	292	287	282	276	271	264	255

***** 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	1167	971	806	465	210	44	9	13	96	404	683	1016	5884
60	1012	831	651	321	113	11	0	0	32	265	533	861	4630
57	919	747	559	242	70	4	0	0	13	193	444	768	3959
55	857	691	500	194	48	2	0	0	7	152	386	706	3543
50	704	551	359	98	15	0	0	0	1	73	251	558	2610
32	243	145	44	0	0	0	0	0	0	0	11	142	585

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	99	98	261	526	851	1075	1263	1209	943	623	318	149	7415
55	0	0	4	30	186	386	550	496	259	62	3	0	1976
57	0	0	1	18	146	328	488	434	206	41	1	0	1663
60	0	0	0	6	96	245	395	341	135	20	0	0	1238
65	0	0	0	1	38	129	248	198	49	4	0	0	667
70	0	0	0	0	11	50	126	90	9	0	0	0	286

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	16	29	111	317	624	855	1041	988	732	407	155	32	16	45	156	473	1097	1952	2993	3981	4713	5120	5275	5307
45	2	8	55	194	471	705	886	833	583	268	78	11	2	10	65	259	730	1435	2321	3154	3737	4005	4083	4094
50	0	1	25	105	324	555	731	678	434	153	34	3	0	1	26	131	455	1010	1741	2419	2853	3006	3040	3043
55	0	0	11	51	195	408	576	523	291	70	11	1	0	0	11	62	257	665	1241	1764	2055	2125	2136	2137
60	0	0	3	22	100	267	422	370	167	25	3	0	0	0	3	25	125	392	814	1184	1351	1376	1379	1379
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	4	17	70	187	367	554	701	669	455	230	80	19	4	21	91	278	645	1199	1900	2569	3024	3254	3334	3353

(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

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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