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: EBENSBURG SEWAGE PLANT, PA **COOP ID: 362470**

Climate Division: PA 8 **NWS Call Sign:** **Elevation: 1,940 Feet** **Lat: 40˚28N** **Lon: 78˚44W**

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	34.7	15.9	25.3	67	1997	4	34.6	1998	-28	1994	21	11.4	1977	1231	0	.0	.0	3.6	13.1	29.0	4.3
Feb	38.6	16.7	27.7	71	1972	29	35.6	1990	-22	1979	11	15.2	1978	1045	0	.0	.0	5.6	9.2	25.7	3.1
Mar	48.6	24.5	36.6	83	1998	31	43.4	1973	-11	1984	10	29.3	1984	882	0	.0	.0	13.4	2.9	24.7	.7
Apr	60.3	33.2	46.8	89	1976	18	50.7	1985	10+	1982	7	41.7	1975	548	0	.0	.0	24.0	.1	15.2	.0
May	70.4	42.6	56.5	90	1996	20	63.9	1991	20+	1966	11	50.7	1997	281	17	.0	@	30.6	.0	5.4	.0
Jun	77.8	50.9	64.4	92	1969	30	67.2+	1994	28	1977	8	60.7	1972	79	60	.0	.3	30.0	.0	.5	.0
Jul	81.3	55.5	68.4	99	1966	3	71.6	1999	35	1966	21	64.8	2000	20	125	.0	1.3	31.0	.0	.0	.0
Aug	80.1	54.3	67.2	94+	1988	18	70.8	1995	30	1982	29	63.2	1997	40	109	.0	1.1	31.0	.0	.1	.0
Sep	73.5	48.2	60.9	91	1964	10	65.9	1971	23	1974	24	56.8	1997	147	22	.0	.2	30.0	.0	1.9	.0
Oct	63.1	36.9	50.0	82	1986	1	56.2	1984	12+	1965	29	44.4	1988	468	2	.0	.0	27.9	.0	11.2	.0
Nov	50.2	29.6	39.9	78	1982	2	45.3+	1999	0+	1997	18	33.0	1976	754	0	.0	.0	14.9	1.6	20.2	.1
Dec	38.9	20.8	29.9	71+	2001	5	37.1	1984	-20	1989	24	16.2	1989	1090	0	.0	.0	5.2	8.5	27.0	1.6
Ann	59.8	35.8	47.8	99	Jul 1966	3	71.6	Jul 1999	-28	Jan 1994	21	11.4	Jan 1977	6585	335	.0	2.9	247.2	35.4	160.9	9.8

\+ 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: 1964-2001

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

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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	3.91	3.43	1.42	1998	9	7.78	1978	1.68+	1981
Feb	3.23	3.18	1.64	1971	14	6.17	1971	1.01	1987
Mar	4.42	4.49	2.34	1994	3	7.14	1985	1.33	1995
Apr	4.38	3.95	2.32	1977	3	8.99	1993	1.32	1971
May	4.75	4.65	3.50	1980	13	8.04	1989	1.20	1991
Jun	4.48	4.44	3.25	1972	23	11.59	1972	1.84	1988
Jul	5.02	5.18	4.63	1977	20	9.65	1977	.90	1983
Aug	4.03	3.92	2.04	1994	18	7.63	1984	1.44	1995
Sep	4.35	4.49	3.65	1967	29	9.28	1996	.75	1985
Oct	3.38	3.24	1.80	1981	28	7.53	1976	1.14	1994
Nov	4.14	3.81	4.50	1997	8	10.72	1985	.95	1998
Dec	3.75	3.59	2.38	1992	11	7.09	1990	1.93	1989
Ann	49.84	50.26	4.63	Jul 1977	20	11.59	Jun 1972	.75	Sep 1985

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	19.8	10.6	2.1	.4
Feb	16.5	9.0	1.7	.4
Mar	16.2	10.3	2.7	.7
Apr	15.3	10.1	2.8	.7
May	15.0	10.3	3.3	.8
Jun	13.3	9.0	3.0	.9
Jul	12.7	8.5	3.3	1.1
Aug	11.4	7.3	3.0	1.1
Sep	11.7	8.4	3.0	1.0
Oct	12.5	7.3	2.1	.8
Nov	15.3	9.1	2.6	.8
Dec	18.6	9.4	2.1	.4
Ann	178.3	109.3	31.7	9.1

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	1.69	2.04	2.53	2.94	3.31	3.69	4.10	4.57	5.16	6.06	6.87
Feb	1.39	1.68	2.09	2.42	2.73	3.05	3.39	3.78	4.27	5.02	5.69
Mar	1.97	2.37	2.91	3.36	3.77	4.19	4.64	5.15	5.80	6.78	7.67
Apr	1.73	2.13	2.71	3.18	3.63	4.09	4.58	5.15	5.88	6.99	8.01
May	2.02	2.45	3.05	3.55	4.01	4.48	4.98	5.56	6.29	7.41	8.42
Jun	1.95	2.35	2.91	3.37	3.80	4.24	4.70	5.24	5.91	6.94	7.87
Jul	2.12	2.57	3.21	3.74	4.23	4.73	5.27	5.88	6.66	7.85	8.93
Aug	1.71	2.07	2.59	3.00	3.40	3.79	4.22	4.71	5.33	6.28	7.14
Sep	1.44	1.86	2.46	2.98	3.47	3.98	4.54	5.19	6.03	7.33	8.53
Oct	1.22	1.54	2.00	2.38	2.75	3.13	3.54	4.01	4.62	5.56	6.43
Nov	1.47	1.86	2.43	2.90	3.36	3.82	4.33	4.91	5.67	6.83	7.89
Dec	1.75	2.08	2.53	2.89	3.23	3.57	3.93	4.34	4.86	5.65	6.35
Ann	39.84	41.87	44.41	46.31	47.98	49.57	51.20	52.98	55.11	58.17	60.77

\+ 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: 1964-2001
(3) Derived from 1971-2000 serially complete daily data

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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	24.7	18.8	6	5
Feb	21.2	20.0	8	5
Mar	18.0	17.1	3	2
Apr	5.2	3.0	#	#
May	.0	.0	#	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	#	0
Oct	.3	#	#	0
Nov	7.3	5.0	1	#
Dec	17.5	16.1	3	2
Ann	94.2	80.0	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	14.0	1996	8	84.4	1978	46	1978	22	24	1977
Feb	15.0	1972	19	71.0	1972	49	1977	8	31	1977
Mar	20.0	1993	14	46.4	1971	34	1993	15	18	1978
Apr	9.0	1985	9	18.5	1985	8	1982	7	1	1987
May	.5	1973	5	.5	1973	#+	1989	7	#+	1989
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	.5	1993	30	.5	1993	#	1993	30	#	1993
Oct	3.0	1972	19	3.0+	1977	3	1977	17	#+	1997
Nov	19.0	1995	15	39.5	1995	24	1995	16	7	1995
Dec	24.0	1992	11	43.0	1992	27	1992	12	9	1992
Ann	24.0	Dec 1992	11	84.4	Jan 1978	49	Feb 1977	8	31	Feb 1977

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	12.1	9.8	3.7	1.0	.3
Feb	9.7	7.7	2.6	1.1	.2
Mar	7.0	5.8	2.2	.9	.2
Apr	2.7	2.1	.6	.1	.0
May	.1	.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
Oct	.2	.1	.1	.0	.0
Nov	4.1	3.1	.8	.2	.1
Dec	8.6	6.7	1.9	.7	.1
Ann	44.5	35.3	11.9	4.0	.9

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	21.4	16.2	10.7	5.7
Feb	19.9	16.2	12.0	6.7
Mar	12.2	8.3	5.9	3.1
Apr	1.9	.7	.3	.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	.2	@	.0	.0
Nov	4.5	1.8	.9	.3
Dec	15.2	9.7	6.6	2.0
Ann	75.3	52.9	36.4	17.8

+ 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	6/29	6/22	6/16	6/12	6/08	6/03	5/30	5/24	5/17
32	6/12	6/06	6/02	5/30	5/26	5/23	5/19	5/15	5/10
28	5/24	5/19	5/16	5/13	5/10	5/07	5/05	5/01	4/26
24	5/07	5/02	4/29	4/26	4/24	4/21	4/18	4/15	4/11
20	4/23	4/18	4/15	4/12	4/09	4/07	4/04	3/31	3/27
16	4/13	4/09	4/05	4/03	3/31	3/29	3/26	3/23	3/19

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	8/26	9/01	9/04	9/08	9/11	9/14	9/17	9/21	9/26
32	9/08	9/12	9/15	9/18	9/21	9/23	9/26	9/30	10/04
28	9/23	9/29	10/03	10/06	10/10	10/13	10/16	10/21	10/26
24	10/06	10/12	10/16	10/19	10/22	10/25	10/29	11/02	11/07
20	10/18	10/23	10/27	10/30	11/02	11/05	11/08	11/12	11/17
16	10/29	11/04	11/08	11/12	11/16	11/19	11/23	11/28	12/04

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	122	113	106	100	95	89	83	76	67
32	135	129	124	120	117	113	110	105	99
28	172	165	160	156	152	148	143	138	131
24	205	197	191	185	181	176	171	165	156
20	230	222	216	211	206	202	197	191	183
16	254	246	239	234	229	224	218	212	203

***** 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)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	1231	1045	882	548	281	79	20	40	147	468	754	1090	6585
60	1076	905	727	399	164	23	1	7	58	324	604	935	5223
57	983	821	634	312	109	9	0	1	28	246	515	842	4500
55	921	765	572	256	79	4	0	0	15	199	457	780	4048
50	766	625	426	137	28	0	0	0	2	107	320	634	3045
32	290	202	67	1	0	0	0	0	0	1	31	198	790

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	82	80	208	443	759	970	1129	1091	865	558	268	131	6584
55	0	0	0	8	125	285	416	378	190	43	3	0	1448
57	0	0	0	4	93	229	354	317	143	27	1	0	1168
60	0	0	0	1	55	154	262	230	83	12	0	0	797
65	0	0	0	0	17	60	125	109	22	2	0	0	335
70	0	0	0	0	4	12	39	34	2	0	0	0	91

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	12	21	86	243	518	738	887	842	626	319	113	30	12	33	119	362	880	1618	2505	3347	3973	4292	4405	4435
45	3	2	41	140	369	588	732	687	478	191	58	9	3	5	46	186	555	1143	1875	2562	3040	3231	3289	3298
50	0	0	16	75	236	439	577	532	335	97	25	2	0	0	16	91	327	766	1343	1875	2210	2307	2332	2334
55	0	0	4	32	133	297	423	377	207	39	7	0	0	0	4	36	169	466	889	1266	1473	1512	1519	1519
60	0	0	1	10	57	167	270	234	110	7	0	0	0	0	1	11	68	235	505	739	849	856	856	856
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	8	21	75	183	342	480	585	554	399	217	80	18	8	29	104	287	629	1109	1694	2248	2647	2864	2944	2962

(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.
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