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: STEVENSON DAM, PA **COOP ID: 368469**

Climate Division: PA 7 **NWS Call Sign:** **Elevation: 932 Feet** **Lat: 41˚24N** **Lon: 78˚01W**

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	33.0	14.9	24.0	67	1998	8	34.1	1998	-22	1994	20	11.4	1977	1273	0	.0	.0	1.6	13.9	29.5	3.9
Feb	36.8	14.8	25.8	69	1997	28	35.7	1998	-18+	1979	11	13.1	1979	1097	0	.0	.0	3.7	9.7	26.3	3.4
Mar	46.4	23.0	34.7	83	1986	31	41.7	2000	-9+	1993	15	27.5	1984	939	0	.0	.0	11.4	3.2	25.3	.7
Apr	58.7	32.2	45.5	90+	1976	19	49.5	1985	13+	1982	7	38.5	1995	587	0	.0	.1	22.8	.2	15.4	.0
May	70.6	43.1	56.9	93+	1987	30	64.1	1991	25+	1970	7	50.2	1995	282	28	.0	.4	30.4	.0	3.3	.0
Jun	78.3	52.6	65.5	95+	1988	26	69.2	1976	33	1977	8	61.1	1972	66	80	.0	1.3	30.0	.0	@	.0
Jul	82.6	57.9	70.3	101	1988	17	73.7	1999	39	1988	1	66.1	1995	11	173	@	3.5	31.0	.0	.0	.0
Aug	81.2	57.2	69.2	99	1999	1	73.4	1995	39+	1982	29	65.3	1992	21	151	.0	2.1	31.0	.0	.0	.0
Sep	73.5	49.6	61.6	95	1999	3	66.8	1998	31+	1974	24	58.0	1994	135	31	.0	.4	30.0	.0	.1	.0
Oct	62.1	38.0	50.1	87	1986	1	56.8	1971	18+	1969	24	45.2	1976	467	4	.0	.0	27.6	.0	8.5	.0
Nov	48.8	29.8	39.3	79	1982	3	44.5	1999	4	1976	30	33.2	1976	771	0	.0	.0	13.5	1.0	18.8	.0
Dec	37.5	21.2	29.4	71	1998	7	35.9	1984	-13	1989	24	16.8	1989	1105	0	.0	.0	3.1	8.4	27.4	1.3
Ann	59.1	36.2	47.7	101	Jul 1988	17	73.7	Jul 1999	-22	Jan 1994	20	11.4	Jan 1977	6754	467	@	7.8	236.1	36.4	154.6	9.3

\+ 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: 1969-2001

(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	2.57	2.31	1.61	1986	20	5.68	1999	.49	1981
Feb	2.45	2.37	1.50	1984	15	5.19	1981	.34	1987
Mar	3.32	3.13	1.98	1999	4	7.08	1974	.92	1981
Apr	3.36	3.12	2.12	1998	10	7.68	1993	1.12	1971
May	3.75	3.77	1.81	1988	19	7.05	1989	1.06	1999
Jun	4.85	4.31	3.82	1972	23	11.52	1972	1.10	1988
Jul	4.22	3.98	2.50	1992	31	13.45	1992	1.00	1983
Aug	3.93	3.84	3.20	1994	18	10.33	1994	.89	1995
Sep	4.05	3.42	3.18	1975	26	10.08	1996	.84	1984
Oct	3.22	2.82	3.67	1995	21	8.21	1995	1.02	1994
Nov	3.65	3.75	3.50	1993	28	8.33	1985	.67	1976
Dec	2.95	2.39	1.68	1992	11	7.08	1990	.86	1989
Ann	42.32	41.28	3.82	Jun 1972	23	13.45	Jul 1992	.34	Feb 1987

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	12.4	7.0	1.7	.4
Feb	10.8	5.9	1.5	.3
Mar	11.7	7.6	2.1	.6
Apr	12.9	8.2	1.9	.5
May	13.0	8.9	2.7	.4
Jun	12.6	9.2	3.3	1.2
Jul	12.1	8.3	2.8	.9
Aug	10.5	6.9	2.7	1.0
Sep	11.6	8.0	2.7	.9
Oct	12.2	6.8	1.9	.6
Nov	12.8	6.9	2.7	.8
Dec	12.9	6.7	1.8	.4
Ann	145.5	90.4	27.8	8.0

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	.63	.87	1.25	1.58	1.91	2.26	2.65	3.11	3.72	4.68	5.59
Feb	.78	1.01	1.36	1.65	1.93	2.23	2.55	2.93	3.41	4.17	4.87
Mar	1.27	1.58	2.02	2.39	2.74	3.09	3.47	3.92	4.48	5.35	6.14
Apr	1.12	1.44	1.91	2.30	2.68	3.07	3.50	4.00	4.64	5.64	6.56
May	1.44	1.79	2.29	2.70	3.09	3.49	3.92	4.42	5.06	6.04	6.93
Jun	1.65	2.11	2.78	3.35	3.89	4.45	5.06	5.78	6.69	8.11	9.41
Jul	1.46	1.86	2.44	2.93	3.40	3.88	4.41	5.02	5.80	7.02	8.14
Aug	1.03	1.41	1.98	2.48	2.97	3.49	4.06	4.74	5.63	7.03	8.33
Sep	1.31	1.69	2.26	2.74	3.21	3.69	4.22	4.84	5.63	6.87	8.02
Oct	.98	1.29	1.74	2.14	2.52	2.91	3.35	3.86	4.52	5.55	6.51
Nov	1.10	1.45	1.97	2.41	2.85	3.30	3.79	4.38	5.13	6.31	7.40
Dec	.99	1.27	1.68	2.03	2.36	2.70	3.07	3.51	4.07	4.94	5.74
Ann	31.99	34.04	36.63	38.58	40.30	41.96	43.65	45.52	47.77	51.02	53.80

\+ 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: 1969-2001
(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	10.9	8.8	4	3
Feb	9.8	8.3	5	4
Mar	6.9	3.1	2	1
Apr	1.1	.0	#	#
May	#	.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	1.9	.3	#	#
Dec	8.1	6.4	2	1
Ann	38.7	26.9	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	10.0	1978	21	31.0	1978	23	1978	22	10+	1994
Feb	10.0	1972	19	26.4	1972	24	1979	20	14	1978
Mar	19.1	1994	3	22.0	1993	30	1994	4	15	1993
Apr	6.0	1974	9	10.0	1982	6	1974	9	1	1982
May	#	1989	8	#+	1989	#+	1989	8	#+	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	.0	0	0	.0	0	0	0	0	0	0
Oct	.7	1972	19	.7	1972	#+	1997	28	#+	1997
Nov	8.0	1971	25	9.0	1995	8	1995	15	2	1995
Dec	15.0	1978	25	26.2	1977	15	1978	25	8	1995
Ann	19.1	Mar 1994	3	31.0	Jan 1978	30	Mar 1994	4	15	Mar 1993

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	5.4	3.6	1.2	.4	@
Feb	4.5	3.4	1.1	.4	.1
Mar	2.8	2.1	.9	.3	.1
Apr	.6	.4	.1	@	.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
Nov	.8	.7	.1	.1	.0
Dec	2.9	2.2	.7	.3	@
Ann	17.0	12.4	4.1	1.5	.2

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	19.6	12.7	8.9	3.3
Feb	15.1	12.0	9.0	3.8
Mar	7.8	5.5	3.6	1.9
Apr	.6	.2	.2	.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	1.9	.6	.3	.0
Dec	9.3	4.6	2.0	.8
Ann	54.3	35.6	24.0	9.8

+ 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	6/07	6/01	5/28	5/25	5/21	5/18	5/15	5/10	5/05
32	5/21	5/17	5/15	5/12	5/10	5/08	5/06	5/04	4/30
28	5/12	5/08	5/04	5/01	4/29	4/26	4/23	4/20	4/15
24	4/23	4/19	4/16	4/14	4/11	4/09	4/06	4/03	3/30
20	4/15	4/10	4/07	4/04	4/01	3/29	3/27	3/23	3/18
16	4/03	3/30	3/27	3/24	3/22	3/20	3/17	3/14	3/10

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	9/19	9/23	9/26	9/29	10/01	10/03	10/06	10/09	10/13
32	10/01	10/05	10/08	10/10	10/12	10/14	10/17	10/20	10/24
28	10/11	10/15	10/18	10/21	10/24	10/26	10/29	11/01	11/05
24	10/21	10/26	10/30	11/02	11/05	11/09	11/12	11/16	11/21
20	10/31	11/06	11/11	11/15	11/19	11/23	11/27	12/02	12/09
16	11/15	11/21	11/25	11/29	12/02	12/05	12/09	12/13	12/19

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	152	145	140	136	132	128	124	119	112
32	169	164	160	157	154	151	148	145	140
28	198	191	186	181	177	173	169	164	157
24	229	222	216	212	208	203	199	194	186
20	256	248	242	236	231	226	221	215	206
16	276	269	263	259	254	250	246	240	233

***** 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	1273	1097	939	587	282	66	11	21	135	467	771	1105	6754
60	1118	957	784	439	172	19	0	2	53	324	621	950	5439
57	1025	873	691	353	120	7	0	0	26	248	531	857	4731
55	963	817	629	299	91	4	0	0	15	203	472	795	4288
50	808	677	479	179	39	0	0	0	3	111	330	644	3270
32	314	246	88	3	0	0	0	0	0	1	25	197	874

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	64	73	172	406	769	1003	1185	1153	887	561	244	116	6633
55	0	0	0	13	146	317	472	440	212	50	1	0	1651
57	0	0	0	7	113	261	410	378	163	33	0	0	1365
60	0	0	0	3	73	182	317	287	100	16	0	0	978
65	0	0	0	0	28	80	173	151	31	4	0	0	467
70	0	0	0	0	8	21	68	59	4	0	0	0	160

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	5	11	68	225	541	768	932	908	659	332	104	17	5	16	84	309	850	1618	2550	3458	4117	4449	4553	4570
45	1	0	31	128	388	618	777	753	509	206	50	5	1	1	32	160	548	1166	1943	2696	3205	3411	3461	3466
50	0	0	11	67	253	469	622	598	361	108	17	2	0	0	11	78	331	800	1422	2020	2381	2489	2506	2508
55	0	0	4	31	145	325	468	443	231	47	5	0	0	0	4	35	180	505	973	1416	1647	1694	1699	1699
60	0	0	0	8	70	197	316	292	124	13	0	0	0	0	0	8	78	275	591	883	1007	1020	1020	1020
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	11	59	165	345	494	618	598	406	209	63	7	0	11	70	235	580	1074	1692	2290	2696	2905	2968	2975

(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