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: SELINSGROVE 2 S, PA **COOP ID: 367931**

Climate Division: PA 5 **NWS Call Sign:** **Elevation: 420 Feet** **Lat: 40˚47N** **Lon: 76˚52W**

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	34.8	17.6	26.2	72+	1932	13	35.5	1998	-26	1994	22	14.0	1977	1204	0	.0	.0	2.2	11.7	28.4	2.2
Feb	38.3	19.2	28.8	77	1985	25	36.4	1998	-21	1934	28	18.5	1979	1015	0	.0	.0	4.1	8.2	25.0	1.4
Mar	48.0	27.3	37.7	87	1986	31	43.7	2000	-6	1934	12	30.1	1984	848	0	.0	.0	12.7	2.0	22.3	.2
Apr	60.2	37.1	48.7	91+	1942	30	52.6	1981	10	1943	16	43.4	1975	490	0	.0	.2	24.9	.1	8.8	.0
May	71.1	47.1	59.1	96	1996	20	65.4	1991	25	1978	1	54.6	1997	213	29	.0	.6	30.8	.0	.7	.0
Jun	79.4	56.6	68.0	102	1952	26	71.4	1994	34	1926	4	64.3	1982	32	121	.0	2.1	30.0	.0	.0	.0
Jul	83.8	61.1	72.5	105	1988	17	76.8	1988	42+	1945	12	68.8	2000	6	236	.1	5.9	31.0	.0	.0	.0
Aug	81.9	59.3	70.6	105	1930	4	74.8	1995	35	1982	29	65.6	1982	11	184	.0	2.8	31.0	.0	.0	.0
Sep	74.2	51.7	63.0	102+	1953	2	66.4	1980	25	1947	27	59.3	1975	97	35	.0	.7	30.0	.0	.1	.0
Oct	62.9	39.9	51.4	92+	1941	5	57.0	1984	16	1976	28	46.6	1976	425	3	.0	.0	29.2	.0	6.4	.0
Nov	50.8	31.7	41.3	84	1950	1	45.9	1999	-5	1938	27	34.3	1976	712	0	.0	.0	15.4	.4	17.0	.0
Dec	39.5	23.4	31.5	73	1984	30	37.9	1998	-16	1951	17	20.0	1989	1040	0	.0	.0	3.7	6.7	25.5	.7
Ann	60.4	39.3	49.9	105+	Jul 1988	17	76.8	Jul 1988	-26	Jan 1994	22	14.0	Jan 1977	6093	608	.1	12.3	245.0	29.1	134.2	4.5

\+ 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: 1926-2001

(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	3.06	2.37	2.25	1978	9	7.82	1978	.43	1981
Feb	2.49	2.04	1.80	1926	4	7.02	1981	.63	1987
Mar	3.20	3.10	2.84	1986	15	6.30	1994	.89+	1995
Apr	3.60	3.24	2.52	1940	20	8.80	1993	1.05	1989
May	3.87	3.59	3.48	1946	27	8.71	1989	.42	1977
Jun	4.58	4.40	3.31	1983	21	11.97	1972	1.02	1988
Jul	3.69	3.44	3.35	1927	23	6.59	1977	1.45	2000
Aug	3.78	3.65	3.93	1990	6	9.33	1990	.55	1995
Sep	4.04	3.66	4.85	1999	7	11.48	1999	.75	1984
Oct	3.24	2.67	4.48	1929	2	8.77	1976	.67	1994
Nov	3.54	3.69	3.80	1926	16	7.90	1972	.84	1998
Dec	3.00	2.84	2.56	1950	4	6.99	1983	.40	1998
Ann	42.09	42.26	4.85	Sep 1999	7	11.97	Jun 1972	.40	Dec 1998

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	12.5	6.9	2.1	.6
Feb	9.8	5.8	1.6	.4
Mar	11.0	6.8	2.0	.6
Apr	12.3	7.5	2.3	.8
May	13.3	8.6	2.4	.9
Jun	12.3	8.0	3.4	1.0
Jul	11.2	7.2	2.4	.8
Aug	10.4	6.5	2.6	.9
Sep	11.2	6.7	2.6	.9
Oct	10.3	5.9	2.0	.8
Nov	11.1	6.1	2.3	.8
Dec	11.1	6.2	2.1	.7
Ann	136.5	82.2	27.8	9.2

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	.65	.93	1.37	1.78	2.19	2.63	3.13	3.72	4.51	5.76	6.94
Feb	.77	1.01	1.36	1.66	1.95	2.26	2.59	2.98	3.48	4.27	5.00
Mar	1.21	1.51	1.93	2.29	2.63	2.97	3.35	3.78	4.33	5.18	5.96
Apr	1.20	1.54	2.04	2.46	2.87	3.29	3.76	4.30	4.99	6.06	7.05
May	1.39	1.75	2.28	2.72	3.14	3.57	4.04	4.59	5.29	6.36	7.35
Jun	1.37	1.80	2.45	3.02	3.56	4.13	4.76	5.50	6.45	7.95	9.33
Jul	1.52	1.85	2.33	2.72	3.09	3.46	3.86	4.33	4.92	5.81	6.63
Aug	1.11	1.47	2.01	2.48	2.93	3.40	3.92	4.54	5.33	6.57	7.72
Sep	1.18	1.56	2.14	2.64	3.13	3.63	4.19	4.85	5.71	7.04	8.28
Oct	.90	1.21	1.68	2.08	2.48	2.90	3.36	3.90	4.60	5.71	6.74
Nov	1.08	1.42	1.92	2.35	2.77	3.20	3.68	4.24	4.96	6.09	7.13
Dec	.67	.95	1.39	1.78	2.18	2.60	3.07	3.64	4.38	5.57	6.68
Ann	31.81	33.84	36.42	38.37	40.08	41.72	43.41	45.27	47.51	50.74	53.51

\+ 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: 1926-2001
(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	11.5	7.7	3	2	20.0	1996	13	45.4	1996	45	1996	13	16	1996	5.4	3.4	1.1	.7	.2	12.1	6.9	4.4	1.8
Feb	8.0	6.0	3	2	11.0	1978	7	21.5	1994	21	1994	12	14	1994	3.6	2.4	1.1	.4	@	11.2	8.4	6.4	2.2
Mar	5.9	5.1	1	#	12.0	1993	14	19.0+	1993	23	1994	3	11	1994	2.5	2.0	.8	.3	.1	5.6	3.9	2.8	1.0
Apr	.6	.0	#	0	6.0	1983	20	6.0+	1996	6	1982	7	1	1982	.3	.2	.2	@	.0	.2	.1	.0	.0
May	#	.0	0	0	#	1997	7	#	1997	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	0	#	1992	20	#	1992	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	1.6	.0	#	0	6.5	1980	18	11.1	1995	6	1987	12	1	1995	.9	.6	.2	@	.0	.9	.5	.1	.0
Dec	3.5	3.1	1	#	8.5	1990	28	9.5	1981	9	1990	28	3	1995	2.8	1.8	.4	.2	.0	5.5	2.0	1.2	.0
Ann	31.1	21.9	N/A	N/A	20.0	Jan 1996	13	45.4	Jan 1996	45	Jan 1996	13	16	Jan 1996	15.5	10.4	3.8	1.6	.3	35.5	21.8	14.9	5.0

+ 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

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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	5/24	5/19	5/16	5/13	5/10	5/07	5/04	5/01	4/26
32	5/14	5/09	5/05	5/02	4/29	4/26	4/23	4/19	4/14
28	4/26	4/22	4/19	4/17	4/15	4/12	4/10	4/07	4/03
24	4/12	4/08	4/05	4/03	3/31	3/29	3/26	3/23	3/19
20	4/04	3/31	3/28	3/25	3/22	3/20	3/17	3/14	3/10
16	3/27	3/21	3/17	3/14	3/10	3/07	3/04	2/28	2/22

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	9/14	9/20	9/24	9/27	10/01	10/04	10/08	10/12	10/18
32	10/01	10/06	10/10	10/13	10/15	10/18	10/21	10/25	10/30
28	10/16	10/20	10/24	10/26	10/29	10/31	11/03	11/06	11/11
24	10/23	10/29	11/02	11/06	11/10	11/13	11/17	11/21	11/27
20	11/09	11/14	11/18	11/21	11/24	11/27	11/30	12/04	12/09
16	11/21	11/28	12/03	12/07	12/10	12/14	12/18	12/23	12/30

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	167	159	153	148	143	139	134	128	120
32	188	182	177	173	169	165	161	156	150
28	215	209	204	200	197	193	189	184	178
24	244	237	231	227	223	219	214	209	202
20	265	259	254	250	246	242	238	233	227
16	302	292	286	280	274	269	263	256	247

***** 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	1204	1015	848	490	213	32	6	11	97	425	712	1040	6093
60	1049	875	693	343	111	6	0	0	30	283	562	885	4837
57	956	791	600	259	67	2	0	0	12	209	473	792	4161
55	894	735	539	208	45	0	0	0	6	166	414	730	3737
50	739	595	394	102	12	0	0	0	1	83	277	583	2786
32	265	176	54	0	0	0	0	0	0	0	15	159	669

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	84	85	228	500	839	1079	1253	1196	929	601	293	142	7229
55	0	0	1	18	171	390	540	483	245	54	2	0	1904
57	0	0	0	9	131	331	478	421	191	36	1	0	1598
60	0	0	0	3	82	245	385	328	119	16	0	0	1178
65	0	0	0	0	29	121	236	184	35	3	0	0	608
70	0	0	0	0	7	40	111	76	4	0	0	0	238

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	10	20	91	283	601	848	1017	956	701	371	127	23	10	30	121	404	1005	1853	2870	3826	4527	4898	5025	5048
45	2	5	41	168	447	698	862	801	551	236	64	8	2	7	48	216	663	1361	2223	3024	3575	3811	3875	3883
50	0	0	18	87	302	548	707	646	403	126	23	3	0	0	18	105	407	955	1662	2308	2711	2837	2860	2863
55	0	0	5	41	178	399	552	491	264	59	8	0	0	0	5	46	224	623	1175	1666	1930	1989	1997	1997
60	0	0	3	16	89	264	399	338	147	20	1	0	0	0	3	19	108	372	771	1109	1256	1276	1277	1277
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	3	12	65	178	366	548	684	641	438	224	74	10	3	15	80	258	624	1172	1856	2497	2935	3159	3233	3243

(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