

# Climatology of the United States

## No. 20

National Climatic Data Center  
Federal Building  
151 Patton Avenue  
Asheville, North Carolina 28801  
www.ncdc.noaa.gov

Station: PLEASANT MOUNT 1 W, PA

1971-2000

COOP ID: 367029

Climate Division: PA 1

NWS Call Sign:

Elevation: 1,799 Feet Lat: 41°44N

Lon: 75°27W

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	27.9	9.9	18.9	62	1967	26	28.4	1990	-25	1982	18	9.4	1982	1430	0	.0	.0	1.1	20.0	30.2	6.5
Feb	30.6	10.9	20.8	67+	1954	17	28.3	1998	-22	1955	3	10.1	1979	1239	0	.0	.0	1.8	15.8	27.1	5.4
Mar	39.4	19.3	29.4	79	1998	31	36.4	2000	-14	1967	19	22.7	1984	1106	0	.0	.0	6.1	8.3	28.2	1.1
Apr	51.6	30.6	41.1	86	1976	19	45.4	1991	4+	1982	7	34.8	1975	718	0	.0	.0	17.0	.8	18.2	.0
May	63.8	41.2	52.5	89	1996	21	58.3	1991	19	1985	9	48.2	1997	392	4	.0	.0	28.8	.0	4.5	.0
Jun	71.5	50.2	60.9	92	1952	27	64.2	1994	30+	1958	7	57.3	1977	144	20	.0	@	30.0	.0	.2	.0
Jul	76.1	54.4	65.3	95	1995	16	68.6	1988	33	1979	5	62.0	1976	53	61	.0	.4	31.0	.0	.0	.0
Aug	74.5	52.9	63.7	92+	1953	31	67.3	1980	33+	1965	31	59.8	1982	88	47	.0	@	31.0	.0	.0	.0
Sep	66.5	44.8	55.7	96+	1953	3	59.9	1971	21	1963	24	51.8	1975	283	2	.0	.0	29.8	.0	2.2	.0
Oct	55.7	34.0	44.9	83	1953	1	51.1	1971	12	1976	28	40.0	1976	626	0	.0	.0	23.4	@	13.5	.0
Nov	43.3	26.6	35.0	75	1982	3	40.3	1994	0	1976	30	27.4	1976	902	0	.0	.0	9.5	3.9	23.1	@
Dec	32.2	16.2	24.2	65	1984	30	31.4	1998	-24	1980	26	10.7	1989	1266	0	.0	.0	2.1	14.9	29.3	2.9
Ann	52.8	32.6	42.7	96+	Sep 1953	3	68.6	Jul 1988	-25	Jan 1982	18	9.4	Jan 1982	8247	134	.0	.4	211.6	63.7	176.5	15.9

+ 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/normal/usnormals.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormals.html)

Issue Date: February 2004

(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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**Climate Division: PA 1**

**NWS Call Sign:**

**Elevation: 1,799 Feet Lat: 41°44N**

**Lon: 75°27W**

Precipitation (inches)																								
	Precipitation Totals									Mean Number of Days (3)				Precipitation Probabilities (1) Probability that the monthly/annual precipitation will be equal to or less than the indicated amount										
	Means/ Medians(1)		Extremes							Daily Precipitation				Monthly/Annual Precipitation vs Probability Levels These values were determined from the incomplete gamma distribution										
Month	Mean	Med- ian	Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year	>= 0.01	>= 0.10	>= 0.50	>= 1.00	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	3.41	3.01	2.14	1978	26	9.04	1978	.55	1985	13.6	7.6	2.2	.5	.80	1.11	1.61	2.06	2.51	2.98	3.51	4.14	4.97	6.28	7.52
Feb	2.85	2.66	1.69	1977	25	6.90	1981	.48	1987	11.2	6.3	2.0	.4	1.05	1.32	1.70	2.02	2.33	2.64	2.98	3.37	3.87	4.64	5.34
Mar	3.47	3.43	1.93	1977	23	6.26	1977	.60	1981	12.2	7.2	2.5	.8	1.46	1.78	2.22	2.58	2.92	3.27	3.64	4.07	4.60	5.43	6.17
Apr	4.16	3.97	3.72	1983	16	8.66	1983	1.72	1971	12.7	8.3	2.7	1.0	1.90	2.27	2.77	3.19	3.57	3.95	4.36	4.83	5.42	6.32	7.13
May	4.95	4.64	2.73	1989	6	9.85	1989	1.73	1980	14.4	9.5	3.7	1.0	2.05	2.50	3.13	3.66	4.15	4.65	5.18	5.80	6.59	7.78	8.87
Jun	4.88	4.37	3.20	1973	29	11.10	1989	1.19	1991	13.0	9.0	3.4	1.2	1.45	1.92	2.61	3.21	3.80	4.40	5.07	5.86	6.88	8.47	9.94
Jul	4.37	4.27	3.20	1952	10	7.75	1974	1.77	1979	11.7	7.8	3.0	1.1	2.07	2.45	2.97	3.39	3.78	4.17	4.58	5.06	5.65	6.55	7.36
Aug	4.11	3.56	2.79	1955	14	8.78	1994	1.71	1995	12.1	7.7	2.7	1.0	1.71	2.09	2.62	3.05	3.46	3.87	4.31	4.82	5.47	6.45	7.35
Sep	4.54	4.08	4.73	1968	11	10.07	1977	1.35	1984	12.1	7.6	2.9	1.1	1.54	1.97	2.60	3.13	3.64	4.17	4.74	5.41	6.27	7.60	8.83
Oct	4.17	3.77	2.91	1976	21	9.43	1976	1.23	1994	12.1	7.2	2.6	1.1	1.44	1.84	2.41	2.90	3.36	3.84	4.36	4.96	5.74	6.94	8.05
Nov	4.32	4.40	3.41	1972	9	10.22	1972	1.17	1976	12.2	7.8	3.0	1.1	1.89	2.27	2.81	3.25	3.67	4.08	4.53	5.04	5.68	6.66	7.55
Dec	3.64	3.37	3.53	1990	4	8.14	1990	1.12	1988	13.3	7.5	2.3	.7	1.14	1.48	2.00	2.44	2.86	3.30	3.79	4.36	5.09	6.24	7.29
Ann	48.87	48.70	4.73	Sep 1968	11	11.10	Jun 1989	.48	Feb 1987	150.6	93.5	33.0	11.0	36.81	39.19	42.23	44.51	46.52	48.46	50.45	52.64	55.28	59.08	62.35

+ 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

Complete documentation available from:

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COOP ID: 367029

Climate Division: PA 1

NWS Call Sign:

Elevation: 1,799 Feet

Lat: 41°44N

Lon: 75°27W

Snow (inches)																							
Snow Totals															Mean Number of Days (1)								
Means/Medians (1)					Extremes (2)										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	17.4	14.0	9	5	16.0	1987	23	43.0	1994	51	1996	16	27	1978	8.2	5.9	2.1	1.0	.3	24.3	21.1	17.9	8.9
Feb	15.7	14.3	11	9	20.0	1978	7	32.7	1978	49	1978	9	40	1978	6.5	5.0	1.8	.7	.1	25.0	21.0	18.1	12.2
Mar	13.7	11.4	7	5	18.0	1977	23	32.4	1977	42	1978	5	33	1978	4.5	3.4	1.4	.6	.1	18.7	15.7	12.3	6.7
Apr	3.4	2.0	1	#	7.0	1997	1	18.0	1983	20	1978	1	11	1971	1.9	1.4	.3	.2	.0	4.4	2.9	2.4	1.3
May	.3	.0	#	0	4.5	1973	18	4.5	1973	5	1973	18	#+	1996	.1	.1	@	.0	.0	.1	@	@	.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	.3	.0	#	0	5.0	1977	18	6.3	1977	4	1977	18	#+	1997	.3	.1	@	@	.0	.1	@	.0	.0
Nov	7.8	4.0	1	#	24.0	1971	25	43.1	1971	27	1971	25	7	1995	2.8	2.3	.8	.3	.1	5.1	2.8	1.5	.5
Dec	13.6	13.6	4	4	11.0	1996	6	26.7	1977	24	1995	30	14	1995	6.6	4.4	1.6	.7	.1	17.5	13.6	9.3	3.1
Ann	72.2	59.3	N/A	N/A	24.0	Nov 1971	25	43.1	Nov 1971	51	Jan 1996	16	40	Feb 1978	30.9	22.6	8.0	3.5	.7	95.2	77.1	61.5	32.7

+ 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

Complete documentation available from:

[www.ncdc.noaa.gov/oa/climate/normals/usnormals.html](http://www.ncdc.noaa.gov/oa/climate/normals/usnormals.html)

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**COOP ID: 367029**

**Climate Division: PA 1**

**NWS Call Sign:**

**Elevation: 1,799 Feet**

**Lat: 41° 44N**

**Lon: 75° 27W**

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	6/16	6/11	6/07	6/04	6/01	5/28	5/25	5/21	5/16
32	6/03	5/29	5/25	5/22	5/19	5/16	5/12	5/08	5/03
28	5/15	5/11	5/08	5/06	5/04	5/01	4/29	4/26	4/22
24	5/04	4/29	4/26	4/23	4/20	4/18	4/15	4/11	4/07
20	4/23	4/19	4/16	4/13	4/10	4/08	4/05	4/02	3/29
16	4/12	4/07	4/04	4/02	3/30	3/28	3/25	3/22	3/18
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	8/27	9/01	9/04	9/07	9/10	9/13	9/16	9/20	9/25
32	9/13	9/17	9/19	9/22	9/24	9/27	9/29	10/02	10/06
28	9/20	9/26	9/30	10/03	10/07	10/10	10/14	10/18	10/23
24	10/03	10/09	10/13	10/17	10/20	10/24	10/27	11/01	11/07
20	10/17	10/24	10/29	11/01	11/05	11/09	11/13	11/18	11/24
16	10/30	11/05	11/09	11/13	11/17	11/20	11/24	11/28	12/05
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	121	114	109	105	101	97	93	88	81
32	148	141	136	132	128	124	119	114	107
28	176	169	164	159	155	151	147	141	134
24	205	197	192	187	182	177	173	167	159
20	232	224	218	213	208	203	198	193	185
16	252	245	239	235	230	226	222	216	209

\* 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

Complete documentation available from:

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**Climate Division: PA 1      NWS Call Sign:      Elevation: 1,799 Feet    Lat: 41° 44N      Lon: 75° 27W**

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	1430	1239	1106	718	392	144	53	88	283	626	902	1266	8247
60	1275	1099	951	568	252	55	7	22	152	474	752	1111	6718
57	1182	1015	858	478	181	25	1	7	92	386	662	1018	5905
55	1120	959	796	420	140	13	0	2	62	331	602	956	5401
50	965	819	641	279	63	2	0	0	18	208	454	801	4250
32	436	338	164	12	0	0	0	0	0	8	63	303	1324

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	29	23	82	285	635	865	1031	983	709	406	151	61	5260
55	0	0	0	2	62	188	318	272	81	15	0	0	938
57	0	0	0	1	41	140	256	214	51	9	0	0	712
60	0	0	0	0	19	81	170	137	22	3	0	0	432
65	0	0	0	0	4	20	61	47	2	0	0	0	134
70	0	0	0	0	0	1	9	8	0	0	0	0	18

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	2	3	33	135	411	644	805	757	502	219	62	8	2	5	38	173	584	1228	2033	2790	3292	3511	3573	3581
45	0	0	13	69	273	495	650	602	358	124	25	2	0	0	13	82	355	850	1500	2102	2460	2584	2609	2611
50	0	0	3	33	158	349	495	447	223	58	6	0	0	0	3	36	194	543	1038	1485	1708	1766	1772	1772
55	0	0	1	12	76	215	340	295	123	16	1	0	0	0	1	13	89	304	644	939	1062	1078	1079	1079
60	0	0	0	2	34	104	197	162	52	1	0	0	0	0	0	2	36	140	337	499	551	552	552	552
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	2	27	95	242	388	505	468	295	134	38	3	0	2	29	124	366	754	1259	1727	2022	2156	2194	2197

(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/normal/usnormals.html](http://www.ncdc.noaa.gov/oa/climate/normal/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.  
Complete documentation for the 1971-2000 Normals is available on the internet from:  
[www.ncdc.noaa.gov/oa/climate/normal/usnormals.html](http://www.ncdc.noaa.gov/oa/climate/normal/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 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.

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                     |
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| <ol style="list-style-type: none"><li>a. Temperature/ Precipitation Tables<ol style="list-style-type: none"><li>1. 1971-2000 Monthly Normals</li><li>2. Cooperative Summary of the Day</li><li>3. National Weather Service station records</li><li>4. 1971-2000 serially complete daily data</li></ol></li><li>b. Degree Day Table<ol style="list-style-type: none"><li>1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals</li><li>2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data</li></ol></li></ol> | <ol style="list-style-type: none"><li>c. Snow Tables<ol style="list-style-type: none"><li>1. Snow Climatology</li><li>2. Cooperative Summary of the Day</li></ol></li><li>d. Freeze Data Table<br/>1971-2000 serially complete daily data</li></ol> |
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## References

U.S. Climate Normals 1971-2000, [www.ncdc.noaa.gov/normal.html](http://www.ncdc.noaa.gov/normal.html)  
U.S. Climate Normals 1971-2000-Products Clim20, [www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html)  
Snow Climatology Project Description, [www.ncdc.noaa.gov/oa/climate/monitoring/snowclim/mainpage.html](http://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](http://www1.ncdc.noaa.gov/pub/data/special/serialcomplete_jam_0900.pdf)