

Climatography of the United States No. 20

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

Station: PUTNEYVILLE 2 SE DAM, PA

1971-2000

COOP ID: 367229

Climate Division: PA 9

NWS Call Sign:

Elevation: 1,280 Feet Lat: 40° 56N

Lon: 79° 17W

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	15.3	24.2	73	1950	26	33.9	1990	-28	1994	19	9.1	1977	1267	0	.0	.0	3.0	14.4	29.0	4.3
Feb	35.9	16.9	26.4	73	1997	22	35.8	1998	-21	1961	2	13.7	1979	1081	0	.0	.0	4.4	10.7	25.3	3.3
Mar	46.1	24.4	35.3	84	1998	31	42.0	1973	-12	1960	9	27.5	1984	923	0	.0	.0	12.2	3.8	24.7	.8
Apr	58.3	33.9	46.1	90	1985	24	51.0	1985	11+	1949	2	39.5	1975	568	0	.0	@	22.6	.3	15.6	.0
May	69.3	44.2	56.8	92+	1951	26	65.1	1991	23+	1960	2	51.4	1997	283	28	.0	.1	30.3	.0	3.8	.0
Jun	77.5	53.3	65.4	100	1948	27	69.1	1987	30	1977	8	60.0	1972	72	83	.0	1.2	30.0	.0	.2	.0
Jul	81.5	57.1	69.3	103	1988	17	74.4	1988	36+	1963	9	65.4	1976	25	158	.1	3.9	31.0	.0	.0	.0
Aug	80.3	55.5	67.9	99	1988	18	72.8	1988	33	1982	29	64.2	1982	33	122	.0	2.1	31.0	.0	.0	.0
Sep	73.3	48.3	60.8	96+	1952	14	64.5	1998	22+	1957	27	55.9	1975	146	21	.0	.5	30.0	.0	.7	.0
Oct	61.5	37.2	49.4	88	1953	1	54.9	1984	15+	1952	21	44.1	1976	487	2	.0	.0	27.1	.0	9.7	.0
Nov	48.8	29.9	39.4	80+	1950	2	44.7	1999	-2	1958	30	31.1	1976	770	0	.0	.0	13.5	1.6	19.8	.0
Dec	37.7	21.0	29.4	73	1982	4	36.6	1982	-19+	1951	17	16.5	1989	1105	0	.0	.0	4.9	9.1	27.0	1.3
Ann	58.6	36.4	47.5	103	Jul 1988	17	74.4	Jul 1988	-28	Jan 1994	19	9.1	Jan 1977	6760	414	.1	7.8	240.0	39.9	155.8	9.7

+ 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

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

046-A

**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: PUTNEYVILLE 2 SE DAM, PA

COOP ID: 367229

Climate Division: PA 9

NWS Call Sign:

Elevation: 1,280 Feet Lat: 40°56N

Lon: 79°17W

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	3.09	2.77	1.72	1952	27	6.43	1999	.81	1981	14.6	8.0	1.8	.3	.98	1.27	1.70	2.07	2.43	2.80	3.21	3.69	4.31	5.27	6.15	
Feb	2.73	2.47	1.87	1966	14	5.11	1981	.60	1987	12.4	6.9	1.5	.3	1.05	1.31	1.67	1.97	2.25	2.54	2.85	3.22	3.68	4.38	5.03	
Mar	3.72	3.49	2.03	1964	10	7.56	1994	1.53	1995	13.1	8.6	2.5	.5	1.65	1.98	2.44	2.82	3.17	3.52	3.90	4.34	4.88	5.71	6.47	
Apr	3.60	3.82	1.91	1977	3	6.52	1998	.83	1971	14.4	8.4	2.3	.6	1.36	1.69	2.17	2.57	2.95	3.34	3.77	4.25	4.88	5.83	6.71	
May	4.01	3.94	2.10	1985	28	7.88	1989	1.66	1993	13.7	9.0	2.8	.6	1.79	2.15	2.65	3.05	3.43	3.80	4.21	4.67	5.26	6.15	6.95	
Jun	4.74	4.71	3.88	1986	12	10.79	1972	1.01	1991	12.9	8.9	3.7	1.0	1.14	1.58	2.28	2.89	3.50	4.15	4.88	5.74	6.87	8.66	10.34	
Jul	4.55	3.82	3.11	1990	10	11.77	1990	1.36	1989	11.7	8.1	3.1	1.3	1.47	1.91	2.54	3.08	3.61	4.15	4.74	5.43	6.33	7.71	9.00	
Aug	4.08	4.22	3.21	1980	15	8.82	1980	.67	1993	11.2	7.3	2.8	1.2	1.21	1.60	2.18	2.68	3.17	3.68	4.24	4.90	5.75	7.09	8.33	
Sep	4.03	4.17	3.20+	1965	1	8.33	1996	.88	1984	11.8	7.9	3.0	1.0	1.69	2.05	2.57	2.99	3.39	3.79	4.22	4.72	5.35	6.31	7.18	
Oct	2.99	2.74	4.86	1954	16	5.97	1976	.96	1982	12.2	6.9	1.8	.6	.96	1.24	1.66	2.02	2.36	2.72	3.11	3.57	4.16	5.08	5.93	
Nov	3.66	3.41	2.80	1997	8	10.08	1985	.69	1976	13.3	7.5	2.4	.6	1.10	1.45	1.97	2.41	2.85	3.30	3.80	4.39	5.15	6.34	7.44	
Dec	3.39	3.03	1.82	1990	31	7.42	1990	1.76	1980	14.7	8.2	2.0	.6	1.65	1.94	2.33	2.65	2.95	3.24	3.56	3.91	4.36	5.03	5.64	
Ann	44.59	44.05	4.86	Oct 1954	16	11.77	Jul 1990	.60	Feb 1987	156.0	95.7	29.7	8.6	33.24	35.48	38.32	40.46	42.36	44.18	46.05	48.11	50.60	54.19	57.28	

+ 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:

www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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: PUTNEYVILLE 2 SE DAM, PA

COOP ID: 367229

Climate Division: PA 9

NWS Call Sign:

Elevation: 1,280 Feet

Lat: 40° 56N

Lon: 79° 17W

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	11.5	10.0	3	2	10.0	1994	5	35.6	1978	26	1978	21	12	1977	7.0	4.4	1.2	.4	@	16.7	10.1	6.2	2.3
Feb	8.0	6.5	4	2	8.0	1971	14	26.0	1972	23+	1985	4	15	1985	4.9	3.4	.9	.3	.0	14.6	9.0	6.8	3.0
Mar	5.3	4.5	1	#	9.0	1994	3	19.0	1971	22	1993	15	8	1978	3.3	1.9	.8	.3	.0	6.8	4.0	2.5	.6
Apr	.7	.0	#	#	3.0	1987	4	6.0	1987	3	1987	4	#+	1997	.7	.3	@	.0	.0	.6	.1	.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	#	0	.5	1972	19	.5	1972	1	1972	19	#+	1997	@	.0	.0	.0	.0	@	.0	.0	.0
Nov	2.1	.7	#	#	7.5	1995	15	12.3	1995	10	1995	15	3	1995	1.3	.8	.1	.1	.0	1.7	.4	.1	.0
Dec	6.8	5.3	1	1	10.5	1989	31	16.1	1995	12	1995	21	5	1995	4.4	2.7	.6	.2	@	8.9	4.0	2.1	.5
Ann	34.4	27.0	N/A	N/A	10.5	Dec 1989	31	35.6	Jan 1978	26	Jan 1978	21	15	Feb 1985	21.6	13.5	3.6	1.3	@	49.3	27.6	17.7	6.4

+ 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

Complete documentation available from:

www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

Climatography of the United States

No. 20 1971-2000

Station: PUTNEYVILLE 2 SE DAM, PA

COOP ID: 367229

Climate Division: PA 9

NWS Call Sign:

Elevation: 1,280 Feet

Lat: 40° 56N

Lon: 79° 17W

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	6/17	6/11	6/06	6/02	5/29	5/26	5/22	5/17	5/11
32	6/04	5/29	5/24	5/21	5/17	5/14	5/10	5/06	4/29
28	5/12	5/09	5/06	5/04	5/02	4/30	4/28	4/26	4/22
24	4/29	4/25	4/22	4/20	4/17	4/15	4/13	4/10	4/06
20	4/17	4/13	4/10	4/08	4/05	4/03	3/31	3/28	3/24
16	4/08	4/04	4/01	3/29	3/26	3/24	3/21	3/18	3/13
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	9/02	9/07	9/12	9/15	9/18	9/22	9/25	9/29	10/05
32	9/19	9/25	9/29	10/02	10/05	10/08	10/12	10/16	10/21
28	10/06	10/10	10/13	10/16	10/19	10/21	10/24	10/28	11/01
24	10/16	10/21	10/25	10/28	10/31	11/03	11/07	11/10	11/16
20	10/28	11/02	11/06	11/10	11/13	11/16	11/20	11/24	11/30
16	11/06	11/12	11/17	11/21	11/25	11/29	12/03	12/08	12/15
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	134	126	120	116	111	107	102	96	89
32	162	154	149	145	140	136	132	126	119
28	186	180	176	172	169	166	162	158	152
24	214	208	203	200	196	193	189	185	179
20	245	237	231	226	221	217	212	206	198
16	267	259	253	248	243	239	234	228	220

* 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:

www.ncdc.noaa.gov/oa/climate/normal/usnormals.html

**Climatography
of the United States**
No. 20
1971-2000

Station: PUTNEYVILLE 2 SE DAM, PA

COOP ID: 367229

Climate Division: PA 9

NWS Call Sign:

Elevation: 1,280 Feet Lat: 40° 56N Lon: 79° 17W

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	1267	1081	923	568	283	72	25	33	146	487	770	1105	6760
60	1112	941	768	421	174	22	5	5	57	342	620	950	5417
57	1019	857	675	337	121	8	0	0	28	264	531	857	4697
55	957	801	613	284	92	4	0	0	16	216	472	795	4250
50	802	662	467	168	40	0	0	0	3	120	332	648	3242
32	318	240	88	3	0	0	0	0	0	2	29	207	887

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	74	84	188	425	768	1001	1157	1112	864	540	249	125	6587
55	0	0	0	16	147	315	444	399	190	41	1	0	1553
57	0	0	0	9	114	259	382	337	142	27	0	0	1270
60	0	0	0	4	73	182	293	249	81	12	0	0	894
65	0	0	0	0	28	83	158	122	21	2	0	0	414
70	0	0	0	0	8	23	67	42	2	0	0	0	142

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	24	84	236	532	770	922	877	639	317	114	34	10	34	118	354	886	1656	2578	3455	4094	4411	4525	4559
45	2	6	46	141	384	620	767	722	490	198	61	10	2	8	54	195	579	1199	1966	2688	3178	3376	3437	3447
50	0	1	22	78	252	471	612	567	343	106	26	4	0	1	23	101	353	824	1436	2003	2346	2452	2478	2482
55	0	0	4	37	143	327	458	414	215	46	8	0	0	0	4	41	184	511	969	1383	1598	1644	1652	1652
60	0	0	1	14	72	194	304	264	116	10	0	0	0	0	1	15	87	281	585	849	965	975	975	975
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	7	14	67	170	342	491	606	571	402	202	72	15	7	21	88	258	600	1091	1697	2268	2670	2872	2944	2959

(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.
Complete documentation for the 1971-2000 Normals is available on the internet from:
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.

- | | |
|---|---|
| <ol style="list-style-type: none">a. Temperature/ Precipitation Tables<ol style="list-style-type: none">1. 1971-2000 Monthly Normals2. Cooperative Summary of the Day3. National Weather Service station records4. 1971-2000 serially complete daily datab. Degree Day Table<ol style="list-style-type: none">1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data | <ol style="list-style-type: none">c. Snow Tables<ol style="list-style-type: none">1. Snow Climatology2. Cooperative Summary of the Dayd. Freeze Data Table
1971-2000 serially complete daily data |
|---|---|

References

U.S. Climate Normals 1971-2000, www.ncdc.noaa.gov/normal.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normal/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