

Climatology of the United States

No. 20

1971-2000

Station: CLARION 3 SW, PA

COOP ID: 361485

Climate Division: PA10

NWS Call Sign:

Elevation: 1,040 Feet Lat: 41° 12N

Lon: 79° 26W

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	32.7	14.2	23.5	72	1950	25	32.5	1998	-24	1963	29	9.7	1977	1287	0	.0	.0	2.2	14.0	28.9	3.8
Feb	36.4	14.6	25.5	72	1997	22	35.8	1998	-26	1961	2	14.3	1979	1106	0	.0	.0	4.1	10.4	26.3	3.2
Mar	47.6	22.4	35.0	84	1990	15	42.5	1973	-14	1960	9	26.1	1984	930	0	.0	.0	13.3	3.2	24.6	.7
Apr	60.0	31.1	45.6	92	1976	18	51.1	1985	5	1964	1	39.2	1975	584	0	.0	.1	24.2	.2	14.9	.0
May	71.7	41.4	56.6	96+	1991	22	65.8	1991	17	1971	4	49.6	1997	290	29	.0	.8	30.6	.0	3.7	.0
Jun	79.3	50.3	64.8	101	1991	21	70.8	1991	25	1978	14	58.5	1972	90	85	@	2.3	30.0	.0	.2	.0
Jul	82.8	55.4	69.1	101	1991	20	73.4	1993	36+	1962	27	65.1	1971	28	154	.1	4.8	31.0	.0	.0	.0
Aug	80.9	54.5	67.7	99	1991	30	72.6	1995	31+	1982	28	63.8	1971	42	126	.0	2.9	31.0	.0	.1	.0
Sep	73.6	47.5	60.6	97	1954	5	63.6	1998	25	1957	27	56.2	1975	153	19	.0	.6	30.0	.0	.8	.0
Oct	62.0	36.1	49.1	86+	1949	10	54.1	1984	11	1965	29	43.7	1976	495	0	.0	.0	27.7	.0	8.7	.0
Nov	48.2	28.5	38.4	80	1950	1	43.2	1999	-1+	1958	30	29.2	1976	800	0	.0	.0	13.2	1.7	19.0	@
Dec	37.0	20.1	28.6	70	1982	3	34.5	1998	-23	1950	28	16.7	1989	1129	0	.0	.0	3.8	9.1	26.9	1.3
Ann	59.4	34.7	47.0	101+	Jul 1991	20	73.4	Jul 1993	-26	Feb 1961	2	9.7	Jan 1977	6934	413	.1	11.5	241.1	38.6	154.1	9.0

+ 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

009-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: CLARION 3 SW, PA

COOP ID: 361485

Climate Division: PA10

NWS Call Sign:

Elevation: 1,040 Feet Lat: 41°12N

Lon: 79°26W

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	2.92	2.60	1.61	1952	27	6.38	1999	1.37	1983	17.3	7.9	1.5	.3	1.24	1.50	1.87	2.18	2.46	2.75	3.06	3.41	3.86	4.55	5.17
Feb	2.50	2.28	1.70	1959	10	4.87	1990	.38	1987	14.1	7.1	1.1	.2	.85	1.09	1.44	1.73	2.01	2.29	2.61	2.97	3.44	4.17	4.84
Mar	3.27	2.83	2.28	1964	10	6.52	1985	1.44	1978	13.9	7.8	1.9	.4	1.45	1.74	2.15	2.48	2.79	3.10	3.43	3.82	4.30	5.03	5.69
Apr	3.84	3.78	2.60	2000	4	6.47	1999	.81	1971	14.5	8.4	2.4	.7	1.55	1.90	2.40	2.82	3.21	3.60	4.03	4.52	5.14	6.09	6.96
May	4.07	3.73	3.02	1953	31	7.94	1989	1.49	1976	13.9	9.3	2.9	.7	1.62	2.00	2.53	2.97	3.39	3.81	4.27	4.79	5.46	6.49	7.42
Jun	5.45	5.30	3.10	1975	23	12.93	1972	1.37+	1999	12.8	9.1	4.0	1.4	1.51	2.02	2.81	3.49	4.16	4.86	5.64	6.56	7.75	9.63	11.37
Jul	4.85	4.20	4.95	1996	19	12.49	1992	1.10	1998	11.5	7.8	3.4	1.3	1.45	1.91	2.60	3.20	3.77	4.38	5.04	5.82	6.83	8.41	9.87
Aug	4.44	4.20	2.64	1973	15	8.89	1994	1.26	1993	11.3	8.0	3.3	1.1	1.78	2.19	2.77	3.25	3.70	4.16	4.66	5.23	5.95	7.06	8.07
Sep	4.79	4.55	4.10	1992	22	9.49	1996	1.36	1998	11.7	8.0	3.3	1.3	2.17	2.59	3.18	3.66	4.10	4.55	5.02	5.57	6.26	7.31	8.25
Oct	3.24	3.45	4.75	1954	16	5.95	1981	1.00	1982	12.7	7.5	1.9	.5	1.25	1.55	1.98	2.34	2.67	3.02	3.39	3.83	4.38	5.22	6.00
Nov	4.00	4.09	2.62	1994	1	11.98	1985	.86	1976	14.6	8.3	2.5	.8	1.21	1.59	2.16	2.65	3.12	3.61	4.15	4.79	5.61	6.90	8.09
Dec	3.34	2.98	2.25	1991	3	6.25	1990	1.88	1976	16.8	8.0	1.8	.4	1.67	1.95	2.34	2.64	2.92	3.20	3.50	3.84	4.26	4.90	5.46
Ann	46.71	46.37	4.95	Jul 1996	19	12.93	Jun 1972	.38	Feb 1987	165.1	97.2	30.0	9.1	35.30	37.56	40.43	42.59	44.49	46.32	48.20	50.27	52.76	56.35	59.44

+ 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: CLARION 3 SW, PA

COOP ID: 361485

Climate Division: PA10

NWS Call Sign:

Elevation: 1,040 Feet

Lat: 41°12N

Lon: 79°26W

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	11.1	8.6	3	2	7.5	1978	18	35.0	1978	21	1985	26	11	1977	8.1	4.4	1.1	.3	.0	18.2	12.0	7.7	2.3
Feb	8.4	8.0	4	3	6.0	1971	14	17.7	1971	18	1977	6	11	1985	5.4	3.3	.7	.1	.0	15.5	10.8	7.3	2.6
Mar	4.1	2.3	1	#	10.0	1993	14	22.0	1971	14	1978	9	6	1978	2.9	1.6	.7	.2	@	5.3	2.4	1.1	.1
Apr	1.1	.1	#	#	3.5	1987	4	5.7	1982	4	1987	4	#+	1997	.9	.5	.1	.0	.0	.8	.2	.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	#	1974	20	#	1974	#	1974	20	#	1974	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	1.7	1.0	#	#	5.0	1997	15	8.6	1995	6	1995	18	1	1997	1.5	.6	.1	@	.0	1.9	.7	.2	.0
Dec	9.6	8.5	2	1	11.0	1992	11	18.3	1995	16	1992	12	6	1995	5.4	3.2	.9	.3	@	10.8	5.3	3.1	.7
Ann	36.0	28.5	N/A	N/A	11.0	Dec 1992	11	35.0	Jan 1978	21	Jan 1985	26	11+	Feb 1985	24.2	13.6	3.6	.9	@	52.5	31.4	19.4	5.7

+ 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

Climatography of the United States

No. 20 1971-2000

Station: CLARION 3 SW, PA

COOP ID: 361485

Climate Division: PA10

NWS Call Sign:

Elevation: 1,040 Feet

Lat: 41° 12N

Lon: 79° 26W

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	6/14	6/08	6/04	5/31	5/28	5/24	5/21	5/17	5/11
32	6/04	5/28	5/24	5/20	5/16	5/13	5/09	5/04	4/28
28	5/24	5/17	5/12	5/08	5/04	5/01	4/26	4/22	4/15
24	5/04	4/28	4/25	4/22	4/19	4/16	4/12	4/09	4/04
20	4/24	4/18	4/14	4/11	4/08	4/05	4/01	3/28	3/23
16	4/11	4/06	4/02	3/31	3/28	3/25	3/22	3/19	3/14
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	9/07	9/12	9/16	9/19	9/21	9/24	9/27	10/01	10/05
32	9/13	9/19	9/23	9/27	10/01	10/04	10/08	10/12	10/19
28	10/05	10/10	10/14	10/17	10/20	10/23	10/26	10/29	11/03
24	10/20	10/25	10/28	10/31	11/03	11/05	11/08	11/11	11/16
20	10/27	11/02	11/06	11/10	11/14	11/17	11/21	11/26	12/02
16	11/08	11/15	11/19	11/23	11/27	12/01	12/04	12/09	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	136	129	124	120	116	112	108	103	96
32	162	153	147	142	137	132	126	120	111
28	194	185	179	173	168	162	157	150	141
24	218	211	206	201	197	193	189	184	177
20	247	238	231	225	219	214	208	201	191
16	268	260	253	248	243	238	233	227	219

* 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: CLARION 3 SW, PA

COOP ID: 361485

Climate Division: PA10

NWS Call Sign:

Elevation: 1,040 Feet Lat: 41°12N Lon: 79°26W

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	1287	1106	930	584	290	90	28	42	153	495	800	1129	6934
60	1132	966	775	437	180	33	6	9	58	346	650	974	5566
57	1039	882	682	352	127	15	0	2	27	263	560	881	4830
55	977	826	620	298	97	8	0	0	14	214	500	819	4373
50	822	686	473	179	42	1	0	0	2	112	359	667	3343
32	331	239	92	4	0	0	0	0	0	1	37	215	919

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	66	58	185	409	762	985	1149	1108	856	529	227	109	6443
55	0	0	0	14	145	303	436	395	180	28	1	0	1502
57	0	0	0	7	113	250	374	334	133	16	0	0	1227
60	0	0	0	3	73	177	287	248	75	6	0	0	869
65	0	0	0	0	29	85	154	126	19	0	0	0	413
70	0	0	0	0	9	27	65	48	2	0	0	0	151

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	13	85	258	565	794	945	901	658	337	111	23	5	18	103	361	926	1720	2665	3566	4224	4561	4672	4695
45	1	2	43	151	413	644	790	746	508	205	50	5	1	3	46	197	610	1254	2044	2790	3298	3503	3553	3558
50	0	0	18	82	271	494	635	591	364	108	19	2	0	0	18	100	371	865	1500	2091	2455	2563	2582	2584
55	0	0	4	39	162	351	480	437	232	47	6	0	0	0	4	43	205	556	1036	1473	1705	1752	1758	1758
60	0	0	0	11	80	217	325	286	122	10	0	0	0	0	0	11	91	308	633	919	1041	1051	1051	1051
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	1	14	72	187	366	513	620	593	419	211	65	10	1	15	87	274	640	1153	1773	2366	2785	2996	3061	3071

(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