

Climatology of the United States

No. 20

1971-2000

Station: YORK 3 SSW PUMP STN, PA

COOP ID: 369933

Climate Division: PA 4

NWS Call Sign:

Elevation: 390 Feet

Lat: 39°55N

Lon: 76°45W

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	39.0	20.9	30.0	78	1950	26	40.3	1990	-21	1994	21	16.1	1977	1087	0	.0	.0	5.3	7.6	27.2	1.5
Feb	43.3	22.7	33.0	79	1930	25	41.0	1998	-19	1961	2	21.0	1978	896	0	.0	.0	8.4	4.4	23.0	.8
Mar	53.5	30.6	42.1	88	1998	30	48.7	2000	-3	1993	15	35.8	1984	712	0	.0	.0	19.2	.7	18.8	.1
Apr	64.9	38.9	51.9	93+	1941	20	57.0	1994	17+	1940	14	45.9	1975	394	1	.0	.2	28.3	.0	7.9	.0
May	74.8	48.9	61.9	95+	1934	20	68.4	1991	25	1978	1	58.2	1973	143	46	.0	1.5	31.0	.0	.8	.0
Jun	82.5	58.1	70.3	102	1934	29	74.4	1994	34	1930	1	66.3	1992	18	177	.0	4.7	30.0	.0	.0	.0
Jul	86.5	62.6	74.6	105	1936	10	78.9	1999	43+	1966	21	71.2	1976	1	297	.2	9.8	31.0	.0	.0	.0
Aug	84.7	61.0	72.9	104	1930	4	75.9	1988	35	1982	29	69.1	1992	2	246	.1	6.2	31.0	.0	.0	.0
Sep	77.5	54.2	65.9	103	1953	3	70.3	1998	26+	1947	27	61.8	1975	59	84	.0	1.6	30.0	.0	.1	.0
Oct	66.7	41.9	54.3	97	1941	5	60.0	1971	18+	1936	28	48.4	1988	342	11	.0	@	30.5	.0	5.9	.0
Nov	54.2	33.7	44.0	83+	1950	1	50.7	1999	-1	1938	26	37.7	1976	633	0	.0	.0	20.2	.2	15.1	.0
Dec	43.1	25.9	34.5	77	2001	5	41.8	1998	-9+	1951	17	21.8	1989	946	0	.0	.0	8.0	3.8	23.3	.4
Ann	64.2	41.6	53.0	105	Jul 1936	10	78.9	Jul 1999	-21	Jan 1994	21	16.1	Jan 1977	5233	862	.3	24.0	272.9	16.7	122.1	2.8

+ 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: 1926-2001

(3) Derived from 1971-2000 serially complete daily data

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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: YORK 3 SSW PUMP STN, PA

COOP ID: 369933

Climate Division: PA 4

NWS Call Sign:

Elevation: 390 Feet

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Lon: 76°45W

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	3.44	2.95	2.52	1995	20	7.54	1979	.35	1981	10.8	6.4	2.5	.8	.86	1.18	1.68	2.13	2.56	3.03	3.54	4.15	4.96	6.22	7.41
Feb	2.77	2.64	1.92	1985	12	5.68	1981	.51	1980	10.0	5.8	1.9	.6	.76	1.02	1.42	1.77	2.11	2.47	2.87	3.33	3.94	4.90	5.79
Mar	3.65	3.73	2.87	1958	20	7.81	1993	1.37	1995	11.3	7.1	2.6	.7	1.33	1.67	2.17	2.58	2.98	3.38	3.82	4.33	4.98	5.98	6.89
Apr	3.52	3.53	2.85	1929	16	7.66	1983	.96	1997	11.9	7.2	2.6	.7	1.15	1.48	1.97	2.39	2.79	3.21	3.66	4.20	4.88	5.95	6.93
May	4.26	4.17	3.04	1995	26	9.09	1989	.90	1977	13.1	8.4	3.0	1.0	1.42	1.82	2.41	2.92	3.40	3.90	4.44	5.08	5.90	7.16	8.33
Jun	4.31	3.32	4.66	1946	2	20.45	1972	.66	1991	11.9	7.4	2.4	.9	.79	1.18	1.81	2.40	2.99	3.64	4.37	5.26	6.44	8.33	10.14
Jul	3.75	3.28	3.68	1995	4	9.95	1995	1.01	1983	10.8	7.1	2.5	.8	1.26	1.62	2.13	2.58	3.00	3.44	3.91	4.47	5.18	6.29	7.31
Aug	3.33	2.80	8.48	1933	23	8.86	1971	1.08	1995	10.3	6.2	2.1	.9	1.03	1.35	1.82	2.22	2.62	3.02	3.46	3.99	4.66	5.71	6.68
Sep	4.10	3.02	5.12	1975	26	14.61	1975	.91	1986	9.8	6.5	2.4	1.1	.73	1.10	1.70	2.25	2.83	3.44	4.15	5.00	6.13	7.96	9.71
Oct	3.16	2.60	4.45	1929	2	7.60	1979	.56	2000	8.3	5.3	2.2	.8	.84	1.14	1.59	2.00	2.39	2.81	3.27	3.81	4.53	5.65	6.69
Nov	3.47	3.61	3.58	1993	28	7.01	1985	.62	1976	10.4	6.2	2.2	.9	.92	1.25	1.76	2.20	2.63	3.09	3.59	4.19	4.97	6.20	7.34
Dec	3.24	2.62	3.14	1993	5	7.59	1983	.55	1998	10.3	6.1	2.1	.9	.70	1.00	1.48	1.91	2.34	2.80	3.31	3.93	4.74	6.04	7.27
Ann	43.00	42.07	8.48	Aug 1933	23	20.45	Jun 1972	.35	Jan 1981	128.9	79.7	28.5	10.1	30.49	32.91	36.01	38.36	40.45	42.47	44.56	46.87	49.67	53.73	57.25

+ 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

Complete documentation available from:

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Climate Division: PA 4

NWS Call Sign:

Elevation: 390 Feet

Lat: 39°55N

Lon: 76°45W

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	8.9	6.5	2	1	19.0	1996	8	42.4	1996	33	1996	10	12	1996	4.2	2.6	1.0	.4	.1	10.6	4.3	2.2	.6
Feb	8.3	6.0	2	#	18.0	1979	19	28.4	1979	24	1983	12	11	1978	3.1	1.9	1.0	.5	.2	8.9	5.9	4.3	2.1
Mar	3.7	2.0	#	0	17.0	1993	13	18.5	1993	9	1978	3	2	1978	1.7	1.1	.4	.1	@	1.4	.7	.4	.0
Apr	.5	.0	#	0	2.5	1985	9	3.8	1982	1	1982	9	#+	1996	.2	.2	.0	.0	.0	.1	.0	.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	.1	.0	0	0	1.5	1972	19	1.5	1972	0	0	0	0	0	@	@	.0	.0	.0	.0	.0	.0	.0
Nov	1.0	.0	#	0	6.5	1987	11	8.3	1995	3	1995	12	#+	1996	.6	.3	.1	.1	.0	.7	.1	.0	.0
Dec	2.7	1.0	#	#	9.7	1973	17	13.4	1973	9	1973	18	3	1995	1.6	.8	.2	.1	.0	2.4	1.0	.4	.0
Ann	25.2	15.5	N/A	N/A	19.0	Jan 1996	8	42.4	Jan 1996	33	Jan 1996	10	12	Jan 1996	11.4	6.9	2.7	1.2	.3	24.1	12.0	7.3	2.7

+ 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:

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NWS Call Sign:

Elevation: 390 Feet

Lat: 39° 55N

Lon: 76° 45W

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	5/31	5/25	5/21	5/18	5/15	5/12	5/08	5/04	4/29
32	5/14	5/10	5/07	5/04	5/02	4/29	4/27	4/24	4/19
28	4/25	4/21	4/19	4/17	4/15	4/13	4/11	4/08	4/05
24	4/13	4/09	4/06	4/03	4/01	3/30	3/27	3/24	3/20
20	4/04	3/30	3/26	3/22	3/19	3/16	3/13	3/09	3/04
16	3/27	3/19	3/14	3/09	3/05	3/01	2/24	2/19	2/11
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	9/15	9/20	9/23	9/26	9/28	10/01	10/04	10/07	10/12
32	9/30	10/05	10/08	10/10	10/13	10/15	10/18	10/21	10/25
28	10/12	10/17	10/20	10/23	10/25	10/28	10/30	11/03	11/07
24	10/20	10/25	10/29	11/02	11/05	11/08	11/11	11/15	11/21
20	11/02	11/08	11/12	11/16	11/19	11/23	11/26	11/30	12/06
16	11/18	11/25	11/30	12/05	12/09	12/13	12/17	12/22	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	156	149	144	140	136	132	128	123	116
32	180	174	170	166	163	160	156	152	147
28	210	204	200	196	193	189	185	181	175
24	238	231	226	221	217	213	209	203	196
20	267	259	254	249	244	240	235	229	221
16	308	298	290	284	278	272	266	258	248

* 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 4 NWS Call Sign: Elevation: 390 Feet Lat: 39°55N Lon: 76°45W

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	1087	896	712	394	143	18	1	2	59	342	633	946	5233
60	932	756	557	252	60	3	0	0	16	215	484	791	4066
57	839	672	467	178	30	0	0	0	6	152	397	698	3439
55	777	616	411	135	17	0	0	0	3	117	342	638	3056
50	634	487	275	57	3	0	0	0	0	53	216	495	2220
32	211	128	22	0	0	0	0	0	0	0	9	117	487

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	148	157	333	597	926	1149	1319	1267	1015	692	366	194	8163
55	0	0	8	43	230	459	606	554	328	97	10	2	2337
57	0	0	3	26	181	399	544	492	271	70	4	0	1990
60	0	0	0	10	118	312	451	399	191	39	1	0	1521
65	0	0	0	1	46	177	297	246	84	11	0	0	862
70	0	0	0	0	11	77	155	114	22	2	0	0	381

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	29	48	157	379	694	925	1082	1034	791	468	189	51	29	77	234	613	1307	2232	3314	4348	5139	5607	5796	5847
45	10	21	82	246	539	775	927	879	641	321	105	25	10	31	113	359	898	1673	2600	3479	4120	4441	4546	4571
50	2	5	38	137	385	625	772	724	492	196	50	6	2	7	45	182	567	1192	1964	2688	3180	3376	3426	3432
55	0	0	18	67	245	477	617	569	347	102	22	3	0	0	18	85	330	807	1424	1993	2340	2442	2464	2467
60	0	0	4	26	133	331	462	415	216	46	5	0	0	0	4	30	163	494	956	1371	1587	1633	1638	1638
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	26	38	114	247	441	613	736	702	516	298	114	33	26	64	178	425	866	1479	2215	2917	3433	3731	3845	3878

(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.

- 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/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