

Climatography of the United States

No. 20

1971-2000

Station: INDIANA 3 SE, PA

COOP ID: 364214

Climate Division: PA 9

NWS Call Sign:

Elevation: 1,102 Feet Lat: 40°36N

Lon: 79°07W

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	35.7	18.9	27.3	75	1950	25	36.0+	1998	-24+	1994	19	13.3	1977	1168	0	.0	.0	4.0	11.7	27.4	2.6
Feb	39.4	20.3	29.9	74	1997	21	37.8	1998	-26	1961	2	17.3	1978	985	0	.0	.0	5.8	8.4	24.4	2.0
Mar	49.9	28.1	39.0	86	1998	31	45.5	1973	-10+	1960	8	31.5	1984	807	0	.0	.0	15.0	2.6	21.5	.3
Apr	61.2	36.6	48.9	91	1976	18	53.2	1985	10	1950	7	43.4	1975	483	0	.0	@	25.1	.1	11.4	.0
May	71.3	46.2	58.8	91	1962	18	65.2	1991	20	1957	3	53.9	1994	230	36	.0	@	30.6	.0	2.3	.0
Jun	78.7	54.7	66.7	95	1953	21	71.7	2000	31+	1949	8	62.9	1972	52	102	.0	.7	30.0	.0	@	.0
Jul	82.1	59.1	70.6	98+	1988	7	75.1	1999	35	1988	1	67.4	1984	6	179	.0	2.7	31.0	.0	.0	.0
Aug	80.5	58.2	69.4	99	1988	17	73.2	1995	34	1965	29	66.0	1992	15	150	.0	1.5	31.0	.0	.0	.0
Sep	73.6	52.0	62.8	97+	1953	2	67.6	1971	25	1957	27	59.0	1976	107	42	.0	.4	30.0	.0	.2	.0
Oct	63.3	40.9	52.1	87+	1949	10	59.1	1971	11	1952	21	46.7	1976	408	7	.0	.0	28.0	.0	5.8	.0
Nov	51.3	32.9	42.1	81	1961	3	50.0	1999	-4	1958	30	33.4	1976	687	0	.0	.0	16.1	.9	16.6	.0
Dec	40.4	24.5	32.5	75+	1982	3	40.0	1982	-19	1951	17	18.7	1989	1009	0	.0	.0	6.4	6.9	25.0	.9
Ann	60.6	39.4	50.0	99	Aug 1988	17	75.1	Jul 1999	-26	Feb 1961	2	13.3	Jan 1977	5957	516	.0	5.3	253.0	30.6	134.6	5.8

+ 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: 1948-2001

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

023-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: INDIANA 3 SE, PA

COOP ID: 364214

Climate Division: PA 9

NWS Call Sign:

Elevation: 1,102 Feet Lat: 40°36N

Lon: 79°07W

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	3.22	1.70	1986	20	7.15	1978	1.10	1980	17.2	9.2	1.6	.4	1.22	1.54	2.01	2.41	2.78	3.17	3.59	4.08	4.71	5.68	6.57	
Feb	2.96	2.86	2.09	1988	2	6.38	1986	.70	1987	14.2	7.0	1.6	.3	1.14	1.41	1.81	2.13	2.44	2.76	3.10	3.49	4.00	4.77	5.48	
Mar	3.93	3.61	2.42	1985	29	8.04	1989	1.64	1990	14.2	8.8	2.4	.7	1.79	2.13	2.61	3.00	3.37	3.73	4.12	4.57	5.13	5.98	6.75	
Apr	3.76	3.97	2.08	1977	3	6.74	1998	1.22	1971	14.4	9.0	2.4	.5	1.56	1.90	2.39	2.78	3.15	3.53	3.94	4.41	5.00	5.90	6.72	
May	4.48	4.71	2.56	1997	26	7.04	1997	1.80	1991	14.1	9.4	3.0	.8	2.17	2.56	3.08	3.50	3.89	4.28	4.69	5.17	5.76	6.65	7.45	
Jun	4.95	4.69	4.29	1978	17	12.10	1972	1.17	1979	13.0	8.9	3.4	1.2	1.48	1.95	2.66	3.26	3.85	4.46	5.14	5.93	6.96	8.57	10.05	
Jul	4.95	4.78	5.27	1977	20	13.31	1977	2.30	1975	12.2	8.2	3.6	1.3	2.08	2.53	3.16	3.68	4.17	4.66	5.19	5.80	6.57	7.74	8.80	
Aug	4.03	3.62	3.12	1959	30	7.91	1975	1.58	1995	11.6	7.3	3.1	.9	1.72	2.09	2.60	3.02	3.41	3.80	4.23	4.72	5.33	6.27	7.13	
Sep	4.31	3.95	2.55	1962	28	9.23	1996	1.33	1985	11.7	7.8	3.0	1.1	1.66	2.06	2.63	3.11	3.55	4.01	4.51	5.08	5.81	6.93	7.95	
Oct	3.03	2.99	3.91	1954	16	5.93	1976	.78	1982	11.8	6.8	2.0	.6	1.02	1.31	1.73	2.09	2.43	2.78	3.17	3.62	4.19	5.09	5.91	
Nov	3.97	3.70	2.85	1997	8	10.61	1985	1.31	1998	14.0	8.3	2.5	.8	1.44	1.81	2.35	2.80	3.23	3.67	4.15	4.70	5.41	6.51	7.51	
Dec	3.27	3.25	1.91	1991	3	6.79	1990	1.49	1980	15.7	8.1	2.1	.4	1.61	1.89	2.27	2.57	2.85	3.13	3.43	3.77	4.20	4.83	5.41	
Ann	47.08	47.26	5.27	Jul 1977	20	13.31	Jul 1977	.70	Feb 1987	164.1	98.8	30.7	9.0	38.20	40.01	42.27	43.96	45.43	46.84	48.28	49.85	51.73	54.41	56.69	

+ 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: INDIANA 3 SE, PA

COOP ID: 364214

Climate Division: PA 9

NWS Call Sign:

Elevation: 1,102 Feet

Lat: 40°36N

Lon: 79°07W

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	16.3	14.3	4	2	21.0	1994	5	57.0	1978	30	1978	22	16	1977	11.0	6.2	1.8	.5	.1	16.9	9.9	6.8	2.9
Feb	12.4	9.0	3	2	14.0	1971	14	36.7	1972	33	1977	8	17	1977	8.0	4.5	1.3	.4	.1	14.7	9.1	6.0	2.7
Mar	7.4	7.1	1	#	20.0	1993	14	23.0	1999	22	1993	15	5	1994	5.0	3.1	.8	.4	.1	6.2	2.8	1.7	.2
Apr	1.8	1.0	#	#	5.0	1987	4	9.0	1987	4	1985	9	#+	2000	1.3	.8	.1	@	.0	.9	.1	.0	.0
May	#	.0	0	0	#	1977	9	#+	1977	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	1.0	1972	19	1.0	1972	#+	1997	28	#+	1997	@	@	.0	.0	.0	.0	.0	.0	.0
Nov	3.3	1.6	#	#	15.0	1995	15	26.8	1995	13	1995	16	3	1995	2.8	1.1	.2	.1	@	2.3	.7	.3	.1
Dec	8.4	7.5	1	1	14.0	1992	11	21.2	1995	14	1995	29	6	1995	6.7	3.9	.8	.2	@	8.9	4.0	2.0	.4
Ann	49.6	40.5	N/A	N/A	21.0	Jan 1994	5	57.0	Jan 1978	33	Feb 1977	8	17	Feb 1977	34.8	19.6	5.0	1.6	.3	49.9	26.6	16.8	6.3

+ 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: INDIANA 3 SE, PA

COOP ID: 364214

Climate Division: PA 9

NWS Call Sign:

Elevation: 1,102 Feet

Lat: 40°36N

Lon: 79°07W

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	6/13	6/05	5/31	5/27	5/23	5/19	5/14	5/09	5/02
32	5/26	5/21	5/17	5/14	5/11	5/08	5/05	5/02	4/26
28	5/07	5/03	4/30	4/28	4/26	4/23	4/21	4/18	4/14
24	4/27	4/23	4/19	4/16	4/13	4/11	4/08	4/04	3/30
20	4/16	4/11	4/08	4/05	4/03	3/31	3/28	3/25	3/21
16	4/08	4/03	3/29	3/26	3/23	3/19	3/16	3/12	3/06
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	9/12	9/17	9/21	9/24	9/26	9/29	10/02	10/05	10/10
32	9/27	10/02	10/06	10/09	10/11	10/14	10/17	10/21	10/26
28	10/11	10/16	10/19	10/22	10/24	10/27	10/29	11/02	11/06
24	10/15	10/21	10/26	10/30	11/02	11/06	11/09	11/14	11/20
20	11/01	11/07	11/11	11/15	11/19	11/22	11/26	11/30	12/06
16	11/13	11/19	11/23	11/27	12/01	12/04	12/08	12/13	12/19
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	149	141	135	130	126	121	116	110	102
32	172	165	161	156	152	149	144	139	133
28	199	193	188	184	181	177	173	169	162
24	227	218	212	207	202	197	192	186	177
20	254	245	239	234	229	224	219	213	204
16	277	269	263	257	253	248	242	236	228

* 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: INDIANA 3 SE, PA

COOP ID: 364214

Climate Division: PA 9

NWS Call Sign:

Elevation: 1,102 Feet Lat: 40°36N

Lon: 79°07W

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	1168	985	807	483	230	52	6	15	107	408	687	1009	5957
60	1013	845	652	337	129	14	0	1	38	273	538	854	4694
57	920	761	559	255	84	5	0	0	17	203	452	761	4017
55	858	705	502	205	59	2	0	0	9	163	397	702	3602
50	711	570	360	102	20	0	0	0	2	85	267	559	2676
32	254	173	49	0	0	0	0	0	0	0	21	159	656

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	109	113	264	508	829	1040	1196	1158	925	623	324	173	7262
55	0	0	5	22	176	353	483	445	244	73	10	3	1814
57	0	0	0	12	138	295	421	383	192	51	4	0	1496
60	0	0	0	4	91	214	328	290	123	27	1	0	1078
65	0	0	0	0	36	102	179	150	42	7	0	0	516
70	0	0	0	0	11	32	65	53	7	0	0	0	168

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	22	29	118	299	594	813	963	922	695	385	152	46	22	51	169	468	1062	1875	2838	3760	4455	4840	4992	5038
45	7	9	65	185	439	663	808	767	545	252	78	20	7	16	81	266	705	1368	2176	2943	3488	3740	3818	3838
50	0	1	32	101	297	513	653	612	397	142	39	5	0	1	33	134	431	944	1597	2209	2606	2748	2787	2792
55	0	0	8	48	174	366	498	458	258	64	13	1	0	0	8	56	230	596	1094	1552	1810	1874	1887	1888
60	0	0	1	15	87	227	345	304	144	22	2	0	0	0	1	16	103	330	675	979	1123	1145	1147	1147
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	10	27	88	199	372	528	645	615	433	230	92	30	10	37	125	324	696	1224	1869	2484	2917	3147	3239	3269

(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