

Climatology of the United States

No. 20

1971-2000

Station: KANE 1 NNE, PA

COOP ID: 364432

Climate Division: PA10

NWS Call Sign:

Elevation: 1,750 Feet Lat: 41° 41N Lon: 78° 48W

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	29.6	10.8	20.2	68	1950	25	29.9	1998	-35	1994	19	8.1	1977	1388	0	.0	.0	1.3	18.6	29.9	7.0
Feb	32.9	10.7	21.8	66+	1961	25	32.3	1998	-32	1961	2	10.5	1979	1210	0	.0	.0	2.6	14.6	26.7	6.4
Mar	42.4	18.8	30.6	81	1986	31	37.7	1973	-23	1980	2	22.4	1984	1066	0	.0	.0	8.6	6.8	27.1	2.1
Apr	54.5	28.8	41.7	87+	1976	19	45.6	1985	0	1982	8	35.4	1975	701	0	.0	.0	19.1	.6	19.3	@
May	66.5	37.7	52.1	90+	1987	31	58.9	1991	14	1966	10	45.7	1997	405	5	.0	.1	29.2	@	9.7	.0
Jun	74.4	46.5	60.5	93	1952	27	64.2	1995	24	1949	8	56.1	1985	158	21	.0	.2	29.9	.0	1.4	.0
Jul	78.1	50.7	64.4	96	1988	17	67.4	1987	30	1963	9	61.0	2000	66	48	.0	.8	31.0	.0	@	.0
Aug	76.5	49.4	63.0	92+	1948	26	68.0	1995	25+	1982	29	58.6	1982	107	44	.0	.4	31.0	.0	.3	.0
Sep	69.1	42.6	55.9	92+	1953	3	61.3	1971	17	1957	27	51.8	1975	277	2	.0	.1	29.7	.0	4.2	.0
Oct	58.0	32.6	45.3	85	1951	6	51.7	1971	10+	1952	21	40.8	1976	610	0	.0	.0	24.1	.0	15.5	.0
Nov	44.8	26.3	35.6	77	1950	1	41.2	1985	-6	1996	15	28.5	1976	882	0	.0	.0	10.1	3.9	22.8	.2
Dec	33.9	17.2	25.6	70	1982	4	32.7	1982	-22+	1951	17	11.5	1989	1224	0	.0	.0	2.3	13.3	28.5	3.1
Ann	55.1	31.0	43.1	96	Jul 1988	17	68.0	Aug 1995	-35	Jan 1994	19	8.1	Jan 1977	8094	120	.0	1.6	218.9	57.8	185.4	18.8

+ 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/normals/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

025-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: KANE 1 NNE, PA

COOP ID: 364432

Climate Division: PA10

NWS Call Sign:

Elevation: 1,750 Feet Lat: 41°41N

Lon: 78°48W

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	3.34	3.17	2.38	1979	25	6.87	1999	1.29	1988	18.9	8.5	1.7	.3	1.31	1.62	2.06	2.42	2.77	3.12	3.50	3.93	4.49	5.34	6.11
Feb	2.62	2.41	1.74	1950	13	4.92	1981	.50	1987	14.8	7.7	1.2	.1	.98	1.23	1.58	1.87	2.15	2.44	2.75	3.10	3.56	4.27	4.91
Mar	3.61	3.48	2.15	1987	31	6.06	1980	1.62	1990	14.8	8.9	2.2	.6	1.70	2.01	2.44	2.79	3.11	3.44	3.78	4.18	4.68	5.43	6.10
Apr	3.85	3.71	2.61	1981	29	6.74	1981	1.60	1985	14.6	9.3	2.1	.5	1.92	2.25	2.69	3.04	3.37	3.69	4.03	4.42	4.91	5.65	6.30
May	4.09	3.82	3.59	1953	23	8.63	1984	1.18	1977	13.7	9.3	2.9	.7	1.63	2.01	2.54	2.98	3.40	3.83	4.28	4.81	5.49	6.52	7.46
Jun	5.09	5.31	2.85	1972	23	10.60	1972	.82	1992	13.0	9.1	3.5	1.4	1.53	2.01	2.74	3.36	3.97	4.60	5.29	6.11	7.16	8.81	10.34
Jul	4.15	4.03	3.25	1974	15	10.92	1992	2.20	1989	11.6	7.8	3.0	.7	1.96	2.32	2.82	3.22	3.59	3.96	4.36	4.81	5.38	6.24	7.01
Aug	4.44	4.11	3.65	1998	15	8.42	1994	1.46	1989	12.0	8.1	3.1	1.1	1.66	2.07	2.67	3.17	3.64	4.12	4.65	5.25	6.03	7.22	8.31
Sep	4.23	3.54	3.73	1956	6	8.07	1996	1.71	1973	12.7	8.5	2.8	1.0	1.84	2.22	2.75	3.18	3.59	4.00	4.44	4.95	5.58	6.55	7.43
Oct	3.41	3.14	2.89	1954	16	6.58	1981	1.27	1994	13.5	8.4	1.7	.5	1.37	1.68	2.13	2.49	2.84	3.19	3.57	4.01	4.57	5.42	6.19
Nov	3.91	3.87	3.39	1950	25	7.90	1985	1.26	1998	16.2	9.4	2.3	.7	1.59	1.95	2.45	2.87	3.27	3.67	4.10	4.60	5.23	6.19	7.07
Dec	3.77	3.23	1.94	1978	25	6.38	1977	1.55	1989	18.5	9.7	2.1	.3	1.95	2.26	2.68	3.02	3.33	3.63	3.96	4.32	4.78	5.47	6.08
Ann	46.51	47.39	3.73	Sep 1956	6	10.92	Jul 1992	.50	Feb 1987	174.3	104.7	28.6	7.9	37.69	39.49	41.74	43.42	44.89	46.29	47.73	49.29	51.17	53.84	56.12

+ 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: KANE 1 NNE, PA

COOP ID: 364432

Climate Division: PA10

NWS Call Sign:

Elevation: 1,750 Feet

Lat: 41°41N

Lon: 78°48W

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	22.3	21.8	7	6	11.0	1971	30	53.5	1978	29	1978	21	18	1977	12.7	9.4	2.7	.7	.1	25.4	20.9	17.0	9.8
Feb	17.2	16.1	9	8	10.0	1972	4	43.0	1972	27	1978	28	21	1978	9.4	7.0	1.9	.6	@	24.2	21.6	17.9	10.9
Mar	13.9	11.5	4	2	18.0	1993	14	35.0	1984	34	1993	14	17	1994	6.8	4.8	1.6	.8	.1	14.3	10.6	7.9	3.6
Apr	3.0	2.0	#	#	6.0	1975	4	12.5	1982	6	1982	7	1	1982	2.1	1.5	.2	.1	.0	2.2	.6	.2	.0
May	.2	.0	#	0	2.0	1989	8	3.5	1989	2	1989	8	#+	1996	.1	.1	.0	.0	.0	.1	.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	#	1993	30	#+	1993	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.5	.0	#	#	3.0	1982	17	3.0	1982	3	1993	31	#+	2000	.5	.3	@	.0	.0	.4	.1	.0	.0
Nov	8.3	5.5	1	#	18.4	1995	15	36.2	1995	22	1995	15	7	1995	5.0	3.3	.8	.3	@	7.9	3.3	1.4	.3
Dec	21.8	19.8	4	4	21.0	1992	11	49.5	1992	26	1992	11	10	1977	10.5	8.1	2.3	.9	.2	20.8	15.0	9.2	2.4
Ann	87.2	76.7	N/A	N/A	21.0	Dec 1992	11	53.5	Jan 1978	34	Mar 1993	14	21	Feb 1978	47.1	34.5	9.5	3.4	.4	95.3	72.1	53.6	27.0

+ 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: KANE 1 NNE, PA

COOP ID: 364432

Climate Division: PA10

NWS Call Sign:

Elevation: 1,750 Feet

Lat: 41° 41N

Lon: 78° 48W

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	7/08	7/02	6/27	6/23	6/19	6/16	6/11	6/07	5/31
32	6/20	6/14	6/10	6/06	6/02	5/30	5/26	5/22	5/15
28	6/06	6/01	5/28	5/24	5/21	5/18	5/15	5/11	5/05
24	5/12	5/09	5/06	5/04	5/02	4/30	4/28	4/25	4/21
20	5/05	4/29	4/25	4/22	4/19	4/16	4/12	4/08	4/03
16	4/20	4/14	4/10	4/07	4/04	3/31	3/28	3/24	3/19
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	8/11	8/17	8/22	8/26	8/30	9/03	9/07	9/12	9/18
32	8/27	9/01	9/05	9/09	9/12	9/15	9/18	9/22	9/28
28	9/15	9/19	9/23	9/26	9/29	10/01	10/04	10/08	10/12
24	10/06	10/11	10/14	10/17	10/20	10/23	10/26	10/29	11/03
20	10/16	10/21	10/25	10/29	11/01	11/04	11/08	11/12	11/17
16	10/29	11/05	11/10	11/13	11/17	11/21	11/25	11/30	12/06
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	100	90	83	77	71	65	59	52	42
32	124	116	110	105	101	96	91	85	77
28	148	142	137	133	130	126	122	118	111
24	191	184	179	174	170	166	162	157	150
20	216	209	204	199	195	191	187	182	175
16	254	244	238	232	227	222	216	209	200

* 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: KANE 1 NNE, PA

COOP ID: 364432

Climate Division: PA10

NWS Call Sign:

Elevation: 1,750 Feet Lat: 41°41N Lon: 78°48W

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	1388	1210	1066	701	405	158	66	107	277	610	882	1224	8094
60	1233	1070	911	551	267	67	11	33	144	457	732	1069	6545
57	1140	986	818	461	196	34	2	12	83	368	642	976	5718
55	1078	930	756	402	155	19	0	5	53	312	582	914	5206
50	923	790	601	263	75	4	0	0	12	188	435	759	4050
32	400	321	155	9	0	0	0	0	0	5	63	284	1237

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	35	35	112	298	624	853	1005	960	715	418	171	83	5309
55	0	0	0	2	65	182	292	253	77	12	0	0	883
57	0	0	0	1	44	136	231	197	47	6	0	0	662
60	0	0	0	0	22	80	147	125	19	1	0	0	394
65	0	0	0	0	5	21	48	44	2	0	0	0	120
70	0	0	0	0	0	3	6	8	0	0	0	0	17

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	4	6	48	158	410	643	793	743	507	226	70	11	4	10	58	216	626	1269	2062	2805	3312	3538	3608	3619
45	0	0	20	89	273	494	638	588	361	126	31	5	0	0	20	109	382	876	1514	2102	2463	2589	2620	2625
50	0	0	4	43	159	352	483	434	231	59	9	0	0	0	4	47	206	558	1041	1475	1706	1765	1774	1774
55	0	0	0	16	85	217	329	288	129	18	0	0	0	0	0	16	101	318	647	935	1064	1082	1082	1082
60	0	0	0	3	35	111	186	155	57	1	0	0	0	0	0	3	38	149	335	490	547	548	548	548
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	1	4	42	124	275	412	505	474	321	155	45	7	1	5	47	171	446	858	1363	1837	2158	2313	2358	2365

(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