## 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: CONFLUENCE 1 SW DAM, PA 1971-2000 COOP ID: 361705

Climate Division: PA 9 NWS Call Sign: Elevation: 1,490 Feet Lat: 39°48N Lon: 79°22W

									r	Гетр	eratur	re (°F)									
	Mea	<b>n</b> (1)						Extr	emes					Degree Base To	Days (1) emp 65		Mean	Numb	er of I	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	37.2	15.9	26.6	76	1950	26	36.5	1974	-30	1994	22	14.3	1977	1193	0	.0	.0	4.8	11.4	29.0	3.6
Feb	41.3	17.2	29.3	74+	1997	28	36.2	1976	-20	1996	5	17.0	1979	1002	0	.0	.0	6.5	7.5	25.3	2.9
Mar	51.2	25.0	38.1	85	1998	31	46.1	1973	-8	1978	2	31.4	1984	834	0	.0	.0	15.4	2.6	24.0	.4
Apr	62.9	33.8	48.4	92	1976	19	52.9	1985	12+	1995	5	43.8	1975	500	0	.0	.1	24.4	.2	14.2	.0
May	73.3	43.7	58.5	93+	1991	27	65.6	1991	23	1978	2	51.3	1994	237	36	.0	.5	30.5	.0	3.0	.0
Jun	81.8	52.5	67.2	98+	1953	22	70.7	1971	32+	1977	8	62.8	1972	40	105	.0	2.9	30.0	.0	.1	.0
Jul	85.4	57.1	71.3	104	1988	17	75.0	1988	36	1988	1	68.1	1996	6	199	.2	6.1	31.0	.0	.0	.0
Aug	84.1	56.2	70.2	101+	1988	3	74.5	1988	33	1986	30	66.5	1992	16	175	.1	4.3	31.0	.0	.0	.0
Sep	77.0	49.1	63.1	99+	1953	3	68.1	1971	23	1957	28	58.6	1994	109	50	.0	1.1	30.0	.0	.7	.0
Oct	65.4	37.2	51.3	91	1953	1	58.5	1971	16+	1952	21	46.2	1976	430	5	.0	.0	28.3	.0	10.2	.0
Nov	52.6	28.9	40.8	79+	1950	1	48.0	1985	4+	1951	21	34.1+	1996	728	0	.0	.0	17.0	1.1	20.6	.0
Dec	41.3	21.0	31.2	79	1982	3	38.6	1982	-18+	1989	24	17.1	1989	1049	0	.0	.0	7.2	7.4	26.9	1.4
Ann	62.8	36.5	49.7	104	Jul 1988	17	75.0	Jul 1988	-30	Jan 1994	22	14.3	Jan 1977	6144	570	.3	15.0	256.1	30.2	154.0	8.3

<sup>+</sup> Also occurred on an earlier date(s)

Complete documentation available from: www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

Issue Date: February 2004 010-A

<sup>@</sup> Denotes mean number of days greater than 0 but less than .05

<sup>(1)</sup> From the 1971-2000 Monthly Normals

<sup>(2)</sup> Derived from station's available digital record: 1948-2001

<sup>(3)</sup> Derived from 1971-2000 serially complete daily data

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**COOP ID: 361705** 

Station: CONFLUENCE 1 SW DAM, PA

Climate Division: PA 9 NWS Call Sign: Elevation: 1,490 Feet Lat: 39°48N Lon: 79°22W

										Pı	recipi	tation	(incl	nes)										
	Mo	ans/	P	recip	itatio	on Total	S			М	ean N	Numbo Pays (3		Proba	ability th		nonthly/	annual j	precipita ated an		ll be equ		less tha	ın the
		ans(1)				Extreme	5			D	aily Pre	cipitatio	n		Th		•		-	incomplet	•		ion	
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	3.54	3.52	1.78	1974	11	6.00	1999	1.08	1981	16.9	8.7	2.1	.3	1.23	1.56	2.05	2.46	2.85	3.25	3.69	4.21	4.86	5.88	6.82
Feb	2.97	2.85	2.41	2000	19	6.31	1986	.70	1978	14.2	7.1	1.7	.3	.97	1.26	1.67	2.02	2.36	2.72	3.10	3.55	4.13	5.03	5.85
Mar	3.85	3.64	3.05	1972	13	6.83	1994	1.43	1990	14.6	9.1	2.3	.6	1.70	2.04	2.52	2.91	3.28	3.65	4.04	4.49	5.06	5.93	6.71
Apr	3.97	3.88	2.18	1984	5	6.88	1972	1.60	1971	15.1	9.3	2.4	.6	1.80	2.15	2.64	3.03	3.40	3.77	4.17	4.62	5.19	6.06	6.84
May	4.47	4.66	2.40	1968	24	8.38	1996	1.61	1993	15.0	9.6	3.1	.7	2.01	2.41	2.96	3.41	3.82	4.24	4.69	5.20	5.85	6.83	7.71
Jun	4.02	3.81	3.17	1964	19	7.64	1989	1.72	1991	12.9	8.5	2.8	.7	1.67	2.04	2.56	2.98	3.38	3.78	4.21	4.71	5.34	6.31	7.18
Jul	4.76	4.30	3.24	1985	9	8.44	1985	1.63	1988	13.3	9.2	3.3	1.1	1.82	2.27	2.90	3.42	3.92	4.43	4.98	5.62	6.43	7.67	8.81
Aug	3.74	3.45	3.73	1979	27	8.11	1994	1.46	1983	12.2	7.8	2.5	.7	1.49	1.84	2.32	2.73	3.11	3.50	3.92	4.40	5.01	5.95	6.81
Sep	4.06	3.83	4.08	1971	14	8.61	1971	.65	1985	12.3	8.3	2.7	.9	1.41	1.79	2.35	2.82	3.27	3.74	4.24	4.83	5.59	6.75	7.83
Oct	3.01	2.98	4.93	1954	16	8.17	1976	.61	1994	11.3	6.6	2.0	.5	.92	1.21	1.63	2.00	2.35	2.72	3.13	3.60	4.22	5.18	6.07
Nov	3.63	3.36	2.46	1985	27	11.75	1985	.76	1976	14.0	8.2	2.3	.6	1.12	1.47	1.98	2.42	2.84	3.29	3.77	4.34	5.08	6.22	7.29
Dec	3.50	3.34	2.66	1974	2	7.70	1990	1.46	1998	16.4	8.2	2.0	.5	1.55	1.86	2.30	2.65	2.98	3.31	3.67	4.08	4.60	5.38	6.09
Ann	45.52	45.37	4.93	Oct 1954	16	11.75	Nov 1985	.61	Oct 1994	168.2	100.6	29.2	7.5	35.79	37.75	40.22	42.06	43.68	45.24	46.82	48.56	50.65	53.65	56.21

<sup>+</sup> Also occurred on an earlier date(s)

Complete documentation available from:

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

<sup>#</sup> Denotes amounts of a trace

<sup>@</sup> Denotes mean number of days greater than 0 but less than .05

<sup>\*\*</sup> Statistics not computed because less than six years out of thirty had measurable precipitation

<sup>(1)</sup> From the 1971-2000 Monthly Normals

<sup>(2)</sup> Derived from station's available digital record: 1948-2001

<sup>(3)</sup> Derived from 1971-2000 serially complete daily data

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**COOP ID: 361705** 

Station: CONFLUENCE 1 SW DAM, PA

Climate Division: PA 9 NWS Call Sign: Elevation: 1,490 Feet Lat: 39°48N Lon: 79°22W

										Snov	w (incl	hes)											
						Sno	ow To	tals									Mea	n Nu	mber	of Day	ys (1)		
	Mean	s/Medi	ans (1)	ı					Extre	mes (2)							ow Fa					Depth esholo	
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	18.9	18.8	4	3	16.2	1996	8	38.6	1978	21+	1996	13	11	1994	9.6	6.8	2.3	1.0	.1	18.6	11.7	8.3	3.5
Feb	11.8	9.8	4	3	9.0	1972	20	31.8	1979	21+	1979	19	13	1979	6.9	4.8	1.2	.5	.0	16.0	10.4	6.2	2.3
Mar	8.6	5.5	1	1	17.0	1993	14	44.0	1999	23	1993	16	8	1978	4.7	3.3	.9	.4	.1	7.3	3.8	1.8	.9
Apr	1.6	1.0	#	#	5.0	1982	9	6.5	1987	5	1987	5	1	1982	1.1	.7	.2	@	.0	1.0	.2	.1	.0
May	#	.0	#	0	#	1989	7	#	1989	#	1989	7	#	1989	.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	1974	4	.5+	1980	1	1980	26	#+	2000	.1	.0	.0	.0	.0	@	.0	.0	.0
Nov	4.4	2.4	#	#	21.0	1995	15	41.5	1995	19	1995	16	5	1995	2.5	1.5	.4	.2	@	3.0	1.1	.6	.1
Dec	9.6	8.0	2	1	17.0	1992	11	23.5	1974	16	1992	12	6	1989	6.1	4.0	1.1	.3	.1	9.6	4.0	1.5	.3
Ann	54.9	45.5	N/A	N/A	21.0	Nov 1995	15	44.0	Mar 1999	23	Mar 1993	16	13	Feb 1979	31.0	21.1	6.1	2.4	.3	55.5	31.2	18.5	7.1

<sup>+</sup> Also occurred on an earlier date(s) #Denotes trace amounts

Complete documentation available from: www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

<sup>@</sup> Denotes mean number of days greater than 0 but less than .05

<sup>-9/-9.9</sup> represents missing values Annual statistics for Mean/Median snow depths are not appropriate

<sup>(1)</sup> Derived from Snow Climatology and 1971-2000 daily data

<sup>(2)</sup> Derived from 1971-2000 daily data

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**COOP ID: 361705** 

Station: CONFLUENCE 1 SW DAM, PA

Lat: 39°48N **Climate Division: PA 9 NWS Call Sign:** Elevation: 1,490 Feet Lon: 79°22W

				Freez	ze Data				
			Spri	ng Freeze D	ates (Month/	/Day)			
Temp (F)		P	robability of	later date i	n spring (thr	ru Jul 31) tha	n indicated(	(*)	
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	6/11	6/04	5/30	5/26	5/22	5/19	5/15	5/10	5/03
32	5/26	5/20	5/16	5/13	5/10	5/07	5/03	4/29	4/24
28	5/11	5/07	5/04	5/01	4/29	4/26	4/23	4/20	4/16
24	4/26	4/22	4/19	4/17	4/14	4/12	4/09	4/07	4/03
20	4/12	4/08	4/05	4/02	3/31	3/29	3/26	3/23	3/19
16	4/09	4/03	3/31	3/28	3/25	3/22	3/18	3/15	3/09
			Fal	l Freeze Da	tes (Month/D	Day)			
Temp (F)		Pro	bability of ea	arlier date i	n fall (beginn	ning Aug 1) t	han indicate	d(*)	
remp (r)	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	9/14	9/19	9/22	9/25	9/28	9/30	10/03	10/07	10/12
32	9/18	9/24	9/28	10/01	10/04	10/07	10/11	10/15	10/20
28	10/07	10/11	10/14	10/16	10/19	10/21	10/24	10/27	10/31
24	10/12	10/17	10/21	10/24	10/27	10/30	11/02	11/06	11/11
20	10/28	11/02	11/06	11/09	11/12	11/15	11/18	11/22	11/27
16	11/04	11/10	11/14	11/18	11/21	11/24	11/28	12/02	12/08
•		•		Freeze F	ree Period		•		1
Tomp (F)			Probability	of longer th	an indicated	freeze free p	eriod (Days)		
Temp (F)	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	150	143	137	132	128	123	118	113	105
32	168	161	155	151	147	142	138	133	126
28	192	185	181	176	173	169	164	160	153
24	211	205	201	198	195	192	188	184	179
20	245	238	233	229	225	221	217	212	205
16	265	256	251	246	241	236	231	225	217

<sup>\*</sup> 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

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Station: CONFLUENCE 1 SW DAM, PA

COOP ID: 361705

Lon: 79°22W

Climate Division: PA 9 NWS Call Sign: Elevation: 1,490 Feet Lat: 39°48N

				Deg	ree Days t	o Selected	Base Tem	peratures	(°F)				
Base						Heatin	g Degree l	Days (1)					
Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	1193	1002	834	500	237	40	6	16	109	430	728	1049	6144
60	1038	862	679	352	135	9	0	1	41	291	578	894	4880
57	945	778	586	267	89	3	0	0	19	218	490	801	4196
55	883	722	528	215	64	1	0	0	10	175	432	739	3769
50	733	584	386	106	22	0	0	0	2	91	298	598	2820
32	271	179	60	0	0	0	0	0	0	0	27	185	722

Base						Coolin	g Degree l	Days (1)					
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	101	102	249	491	821	1055	1216	1183	932	598	289	159	7196
55	0	0	5	16	172	366	503	470	252	60	4	0	1848
57	0	0	0	7	135	308	441	408	200	41	2	0	1542
60	0	0	0	2	89	224	348	316	132	21	0	0	1132
65	0	0	0	0	36	105	199	175	50	5	0	0	570
70	0	0	0	0	11	30	82	73	11	0	0	0	207

										Gro	wing 1	Degre	e Uni	ts (2)										
Base					Growin	g Degree	Units (M	Ionthly)					Growing Degree Units (Accumulated Monthly)											
	Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec													Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	20	27	100	269	560	801	957	922	682	352	126	37	20	47	147	416	976	1777	2734	3656	4338	4690	4816	4853
45													3	11	60	224	632	1283	2085	2852	3384	3602	3663	3677
50												2	0	0	23	111	384	885	1532	2144	2531	2652	2678	2680
55	0	0	5	41	160	356	492	458	253	53	8	0	0	0	5	46	206	562	1054	1512	1765	1818	1826	1826
60	0	0	1	11	74	220	343	306	142	15	0	0	0	0	1	12	86	306	649	955	1097	1112	1112	1112
Base	Growing Degree Units for Corn (Monthly)													Gr	owing D	egree Ur	its for C	orn (Acc	umulate	d Month	ly)			
50/86	<b>50/86</b> 14 30 93 199 364 518 629 601 440 246 99 22												14	44	137	336	700	1218	1847	2448	2888	3134	3233	3260

(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

#### 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.

Compete documentation for the 1971-2000 Normals is available on the internet from:

www.ncdc.noaa.gov/oa/climate/normals/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 are 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

- c. Snow Tables
  - 1. Snow Climatology
  - 2. Cooperative Summary of the Day
- d. Freeze Data Table

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

### References

U.S. Climate Normals 1971-2000, www.ncdc.noaa.gov/normals.html

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