### 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

COOP ID: 363028

Station: FRANKLIN, PA

**Climate Division: PA10** 

**NWS Call Sign:** 

Elevation: 990 Feet Lat: 41°23N Lon: 79°49W

									r	Гетр	eratui	re (°F)									
	Mea	<b>n</b> (1)						Extr	emes						Days (1) emp 65		Mean	Numb	er of I	Days (3)	
Month	Daily Max	Daily Min					Year	Day	Lowest Month(1) Mean	Year	Heating	Cooling	Max >= 100	Max >= 90	Max >= 50	Max <= 32	Min <= 32	Min <= 0			
Jan	34.5	16.1	25.3	73	1950	26	34.1	1990	-23	1963	29	12.9	1977	1232	0	.0	.0	2.4	13.7	28.6	3.1
Feb	37.1	17.0	27.1	72+	1997	22	36.5	1998	-27	1963	27	14.2	1979	1064	0	.0	.0	3.6	10.7	24.9	2.7
Mar	47.1	24.3	35.7	81+	1938	23	43.6	1973	-22	1934	1	28.1	1984	908	0	.0	.0	11.8	3.9	24.6	.7
Apr	59.5	33.9	46.7	90	1976	19	51.3	1985	10	1964	2	42.4	1975	549	0	.0	@	22.2	.4	13.9	.0
May	70.9	43.8	57.4	94	1936	11	65.0	1991	20	1966	10	51.1	1997	268	32	.0	.2	30.3	.0	2.5	.0
Jun	79.4	53.3	66.4	101	1934	29	69.8+	1973	32+	1929	3	61.8	1972	58	99	.0	1.6	30.0	.0	.0	.0
Jul	83.5	57.8	70.7	106+	1936	10	73.5	1999	36	1971	15	67.2	2000	6	181	.0	4.0	31.0	.0	.0	.0
Aug	81.7	56.9	69.3	101+	1933	1	73.8	1980	34	1969	12	65.6	1982	23	156	.0	2.1	31.0	.0	.0	.0
Sep	74.0	50.3	62.2	100+	1932	1	66.7	1971	27	1957	27	59.4	1975	115	29	.0	.5	30.0	.0	.1	.0
Oct	62.3	39.2	50.8	88+	1927	2	58.1	1971	15	1965	29	45.9	1987	445	3	.0	.0	27.0	.0	5.9	.0
Nov	50.0	31.6	40.8	81+	1950	2	47.9	1975	1	1929	30	35.1	1996	726	0	.0	.0	13.5	1.0	16.6	.0
Dec	39.1	22.2	30.7	74	1982	4	37.6	1982	-14+	1950	27	17.7	1989	1064	0	.0	.0	4.4	8.8	25.8	1.0
Ann	59.9	37.2	48.6	106+	Jul 1936	10	73.8	Aug 1980	-27	Feb 1963	27	12.9	Jan 1977	6458	500	.0	8.4	237.2	38.5	142.9	7.5

<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 020-A

- (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

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

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**COOP ID: 363028** 

Station: FRANKLIN, PA

Climate Division: PA10 NWS Call Sign: Elevation: 990 Feet Lat: 41°23N Lon: 79°49W

										Pı	recipi	tation	(incl	ies)										
	Mea Medi		P	recipi	itatio	n Total					ean N of D	ays (3	)	Proba		Me	nonthly/ onthly/Ar	annual j indic	precipita ated am	vs Proba	ies (1)  Il be equ	els		ın the
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	2.60	2.56	2.12	1937	25	5.47	1999	1.09	1981	15.8	7.4	1.3	.2	1.12	1.36	1.68	1.95	2.20	2.46	2.73	3.04	3.44	4.04	4.58
Feb	2.34	2.14	1.79	1959	10	5.53	1990	.37	1978	12.6	6.5	1.2	.2	.73	.95	1.28	1.57	1.84	2.13	2.44	2.81	3.28	4.02	4.70
Mar	3.29	3.37	1.72	1985	29	6.72	1985	.88	2000	13.8	8.2	2.0	.4	1.22	1.53	1.97	2.34	2.69	3.05	3.44	3.89	4.46	5.34	6.15
Apr	3.58	3.56	2.15	1937	26	6.17	1998	1.03	1971	13.5	8.6	2.3	.6	1.83	2.12	2.53	2.85	3.14	3.44	3.75	4.10	4.54	5.21	5.80
May	3.87	3.67	3.00	1928	18	7.89	1984	1.11	1993	12.9	8.9	2.5	.6	1.32	1.68	2.22	2.67	3.10	3.55	4.04	4.60	5.33	6.46	7.50
Jun	4.94	4.54	4.50	1981	9	10.47	1989	.93	1991	12.9	8.5	3.6	1.2	1.39	1.86	2.57	3.19	3.79	4.43	5.12	5.95	7.02	8.70	10.27
Jul	4.99	4.27	4.92	1996	19	11.29	1980	.97	1998	11.3	7.9	3.4	1.4	1.58	2.05	2.75	3.35	3.93	4.53	5.19	5.96	6.96	8.51	9.94
Aug	4.15	3.91	5.30	1994	14	7.92	1994	1.41	1995	11.0	7.7	2.8	1.1	2.05	2.40	2.88	3.27	3.62	3.98	4.35	4.78	5.31	6.12	6.84
Sep	4.31	4.25	3.05	1977	14	8.15	1996	.96	1995	11.4	8.1	3.2	1.0	1.84	2.23	2.78	3.23	3.64	4.07	4.52	5.05	5.71	6.72	7.63
Oct	3.04	3.05	4.00	1954	16	5.42	1978	1.15	1994	12.2	7.3	1.9	.4	1.35	1.62	2.00	2.31	2.59	2.88	3.19	3.54	3.99	4.66	5.27
Nov	3.53	3.42	2.20	1999	3	10.99	1985	.72	1976	14.3	8.1	2.2	.5	1.16	1.50	1.99	2.41	2.81	3.23	3.68	4.22	4.90	5.97	6.95
Dec	3.17	2.95	2.00	1968	28	7.23	1971	1.53	1976	16.7	8.3	1.7	.3	1.33	1.62	2.02	2.36	2.67	2.99	3.33	3.72	4.21	4.97	5.66
Ann	43.81	44.54	5.30	Aug 1994	14	11.29	Jul 1980	.37	Feb 1978	158.4	95.5	28.1	7.9	34.19	36.12	38.56	40.38	41.99	43.53	45.10	46.83	48.90	51.88	54.42

<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: 1926-2001

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

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**COOP ID: 363028** 

Station: FRANKLIN, PA

Climate Division: PA10 NWS Call Sign:

Elevation: 990 Feet Lat:

Lat: 41°23N Lon: 79°49W

		Fall   Depth   Median   Median   Median   Median   Snow   Fall   Day   Monthly   Snow   Snow   Depth   Day   Mean   Snow   Depth   Day   Day   Mean   Snow   Depth   Day   Day   Day   Mean   Snow   Depth   Day   D																					
						Sne	ow To	tals									Mea	n Nu	mber	of Day	<b>ys</b> (1)		
	Mean	s/Medi	ans (1)	)					Extre	mes (2)							ow Fa				Snow = Thr	_	
Month	Snow Fall Mean	Fall	Depth	Depth	Daily Snow	Year	Day	Monthly Snow	Year	Daily Snow	Year	Day	Monthly Mean Snow	Year	0.1	1.0	3.0	5.0	10.0	1	3	5	10
Jan	14.9	12.5	4	3	11.0	1971	27	52.0	1999	39	1977	31	23	1977	8.1	7.0	1.9	.6	.1	18.6	10.8	6.5	2.7
Feb	11.0	9.1	3	2	8.0	1972	20	29.1	1972	40	1977	1	15	1977	5.6	4.9	1.3	.3	.0	14.4	9.5	5.5	1.3
Mar	9.9	10.0	1	1	16.0	1993	14	26.0	1971	16	1993	14	5	1984	3.7	3.4	1.2	.5	.1	6.1	3.1	1.3	.2
Apr	1.3	.0	#	#	6.0	1987	4	8.0	1987	6	1987	4	#+	2000	.7	.6	.1	.1	.0	.6	.2	.1	.0
May	#	.0	#	0	#	1977	9	#	1977	#	1977	9	#	1977	.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	#	1997	23	#+	1997	#+	1997	23	#+	1997	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	2.9	2.0	#	#	5.0	1987	21	9.0	1997	5+	2000	22	1+	2000	2.0	1.4	.3	.1	.0	2.1	.6	.1	.0
Dec	13.3	10.2	2	1	12.5	1992	11	26.0	2000	17	1977	10	5	1995	6.1	4.5	1.7	.4	.1	10.5	5.8	3.6	1.1
Ann	53.3	43.8	N/A	N/A	16.0	Mar 1993	14	52.0	Jan 1999	40	Feb 1977	1	23	Jan 1977	26.2	21.8	6.5	2.0	.3	52.3	30.0	17.1	5.3

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

- (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

<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

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1971-2000

**National Climatic Data Center Federal Building** 151 Patton Avenue Asheville, North Carolina 28801 www.ncdc.noaa.gov

**COOP ID: 363028** 

Lon: 79°49W

Lat: 41°23N

**Station: FRANKLIN, PA** 

**Climate Division: PA10** 

**NWS Call Sign:** 

Elevation: 990 Feet

				Freez	ze Data								
			Spri	ng Freeze D	ates (Month/	Day)							
Probability of large date in   Spring   Spring													
Temp (F)	.10	.20	.30	.40	.50	.60	.70	.80	.90				
36	6/14	6/06	6/01	5/28	5/24	5/19	5/15	5/10	5/02				
32	5/18	5/14	5/11	5/08	5/06	5/04	5/01	4/28	4/25				
28	5/06	5/02	4/29	4/27	4/24	4/22	4/19	4/17	4/13				
24	4/22	4/18	4/15	4/12	4/10	4/07	4/04	4/01	3/28				
20	4/11	4/07	4/05	4/02	3/31	3/29	3/26	3/24	3/20				
16	4/06	4/02	3/30	3/27	3/24	3/22	3/19	3/16	3/11				
•		•	Fal	l Freeze Da	tes (Month/D	ay)		•	•				
T (E)		Pro	bability of ea	arlier date i	n fall (beginn	ing Aug 1) t	han indicate	d(*)					
remp (r)	.10	.20	.30	.40	.50	.60	.70	.80	.90				
36	9/19	9/23	9/27	9/29	10/02	10/05	10/07	10/11	10/15				
32	10/05	10/09	10/12	10/15	10/17	10/20	10/22	10/25	10/29				
28	10/19	10/23	10/26	10/28	10/30	11/02	11/04	11/07	11/11				
24	10/27	10/31	11/03	11/06	11/08	11/11	11/14	11/17	11/21				
20	11/04	11/11	11/15	11/19	11/22	11/26	11/30	12/04	12/10				
16	11/20	11/25	11/29	12/03	12/06	12/09	12/12	12/16	12/22				
				Freeze F	ree Period				I				
Town (F)			Probability	of longer th	an indicated	freeze free p	eriod (Days)						
remp (r)	.10	.20	.30	.40	.50	.60	.70	.80	.90				
36	152	144	139	135	131	127	122	117	110				
32	178	173	170	166	164	161	158	154	149				
28	206	200	196	192	188	185	181	176	170				
24	231	225	220	216	212	208	204	200	193				
20	257	249	244	240	236	232	227	222	215				
16	277	270	265	260	256	252	247	242	235				

<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.

Complete documentation available from:

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**COOP ID: 363028** 

Lon: 79°49W

Station: FRANKLIN, PA

**Climate Division: PA10** 

Elevation: 990 Feet Lat: 41°23N

				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	1232	1064	908	549	268	58	6	23	115	445	726	1064	6458
60	1077	924	753	401	161	17	0	3	38	303	576	909	5162
57	984	840	660	315	110	7	0	0	16	227	487	816	4462
55	922	784	598	261	82	4	0	0	8	183	428	754	4024
50	767	645	455	144	33	0	0	0	1	95	291	607	3038
32	285	220	88	1	0	0	0	0	0	0	19	178	791

Base						Coolin	g Degree l	Days (1)					
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	76	81	203	442	787	1031	1198	1156	904	581	283	137	6879
55	0	0	0	12	156	344	485	443	222	50	2	0	1714
57	0	0	0	6	122	288	423	381	170	33	1	0	1424
60	0	0	0	2	80	208	330	291	102	15	0	0	1028
65	0	0	0	0	32	99	181	156	29	3	0	0	500
70	0	0	0	0	10	30	67	63	3	0	0	0	173

										Gro	wing ]	Degre	e Uni	ts (2)										
Base					Growin	g Degree	Units (N	(Ionthly)								Growi	ng Degre	ee Units (	Accumu	lated Mo	onthly)			
	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	9	18	80	238	545	792	950	908	662	340	117	33	9	27	107	345	890	1682	2632	3540	4202	4542	4659	4692
45	1 1 40 141 391 642 795 753 512 210 59												1	2	42	183	574	1216	2011	2764	3276	3486	3545	3552
50	0 0 18 75 259 492 640 598 367 107 22											2	0	0	18	93	352	844	1484	2082	2449	2556	2578	2580
55	0	0	4	35	148	345	485	443	235	45	7	0	0	0	4	39	187	532	1017	1460	1695	1740	1747	1747
60	0 0 0 11 73 212 331 292 130 12 0										0	0	0	0	11	84	296	627	919	1049	1061	1061	1061	
Base	e Growing Degree Units for Corn (Monthly)													Gr	owing D	egree Un	its for C	orn (Acc	umulate	d Month	ly)	•		
50/86	<b>50/86</b> 3 10 61 165 346 508 624 597 411 202 66 1												3	13	74	239	585	1093	1717	2314	2725	2927	2993	3006

(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

**NWS Call Sign:** 

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.

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