

# Climatography of the United States

No. 20

1971-2000

Station: DERRY 4 SW, PA

COOP ID: 362108

Climate Division: PA 9

NWS Call Sign:

Elevation: 1,060 Feet Lat: 40° 18N

Lon: 79° 20W

## 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	36.0	19.7	27.9	77	1950	25	37.5	1998	-29	1985	21	12.3	1977	1152	0	.0	.0	4.9	11.5	27.1	3.1
Feb	39.5	20.8	30.2	76+	1932	11	38.3	1998	-20	1979	14	15.4	1979	976	0	.0	.0	6.1	8.0	23.6	2.1
Mar	49.5	28.1	38.8	86	1929	25	47.9	1973	-10	1986	8	28.2	1984	812	0	.0	.0	14.8	2.8	20.9	.3
Apr	60.7	36.8	48.8	90+	1986	29	53.0	1981	6	1985	10	43.2	1975	489	0	.0	.1	24.7	.1	11.7	.0
May	71.4	47.0	59.2	93	1987	31	66.9	1991	21+	1945	2	52.3	1984	231	51	.0	.2	30.5	.0	2.6	.0
Jun	79.3	56.2	67.8	98	1953	21	71.8	1971	28	1977	8	63.6	1980	44	126	.0	1.6	30.0	.0	.1	.0
Jul	83.4	61.5	72.5	102	1988	17	76.6	1987	36	1981	24	68.5	2000	5	237	.1	4.5	31.0	.0	.0	.0
Aug	81.7	60.3	71.0	100	1930	4	75.8	1983	32	1982	29	67.3	1982	14	200	.0	2.9	31.0	.0	@	.0
Sep	75.2	53.4	64.3	97	1953	1	69.0	1971	24	1985	14	60.8	1994	81	60	.0	.7	30.0	.0	.5	.0
Oct	63.6	41.5	52.6	92	1927	2	60.4	1971	17+	1965	29	45.8	1980	394	8	.0	.0	28.0	.0	6.0	.0
Nov	51.3	33.3	42.3	81+	1948	5	50.7	1985	-1	1930	29	35.1	1976	681	0	.0	.0	15.9	.8	16.4	.0
Dec	40.4	24.7	32.6	76	1982	4	40.6	1971	-14+	1945	23	19.0	1989	1005	0	.0	.0	7.1	6.7	24.7	1.0
Ann	61.0	40.3	50.7	102	Jul 1988	17	76.6	Jul 1987	-29	Jan 1985	21	12.3	Jan 1977	5884	682	.1	10.0	254.0	29.9	133.6	6.5

+ 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](http://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: 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: DERRY 4 SW, PA

COOP ID: 362108

Climate Division: PA 9

NWS Call Sign:

Elevation: 1,060 Feet Lat: 40°18N

Lon: 79°20W

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	3.37	3.50	3.73	1927	22	6.48	1999	1.36	2000	15.7	10.1	1.5	.4	1.33	1.64	2.08	2.45	2.79	3.15	3.53	3.97	4.53	5.38	6.16
Feb	3.02	2.70	2.13	1971	14	7.60	1986	.77	1978	12.6	8.6	1.3	.4	.92	1.21	1.63	2.00	2.36	2.73	3.14	3.61	4.23	5.20	6.09
Mar	3.93	3.59	3.21	1936	17	7.05	1989	1.47	1990	12.9	9.8	2.4	.5	2.00	2.32	2.77	3.13	3.45	3.78	4.13	4.52	5.01	5.75	6.40
Apr	4.19	4.09	2.14	1942	9	6.52	1981	1.29	1971	12.7	10.1	2.7	.5	2.07	2.42	2.91	3.29	3.65	4.01	4.39	4.83	5.37	6.18	6.91
May	4.88	5.17	2.72	1971	6	9.82	1989	1.87	1977	12.4	10.3	3.5	1.0	2.17	2.61	3.21	3.70	4.16	4.62	5.11	5.68	6.40	7.48	8.46
Jun	5.04	5.10	5.85	1972	23	15.25	1972	1.70	1999	10.8	9.2	2.8	1.2	1.71	2.19	2.89	3.48	4.04	4.62	5.26	6.00	6.96	8.43	9.79
Jul	5.22	4.43	4.15	1985	9	10.17	1992	1.47	1997	10.8	9.0	3.5	1.3	2.17	2.64	3.31	3.86	4.38	4.90	5.47	6.12	6.94	8.19	9.33
Aug	4.09	3.78	4.12	1935	3	8.25	1987	1.42	1991	9.8	7.9	2.9	.8	1.33	1.72	2.29	2.78	3.25	3.73	4.26	4.88	5.68	6.92	8.07
Sep	4.61	4.62	3.47	1926	5	8.42	1987	.99	1985	10.4	8.6	3.5	1.4	2.01	2.42	3.00	3.47	3.91	4.35	4.83	5.38	6.07	7.12	8.07
Oct	3.29	3.07	5.00	1954	15	8.69	1976	.77	1982	9.7	7.6	2.2	.6	1.25	1.55	1.99	2.36	2.70	3.06	3.44	3.89	4.45	5.32	6.12
Nov	4.05	3.90	2.15	1993	28	13.06	1985	.91	1998	12.5	9.6	2.6	.7	1.29	1.67	2.24	2.73	3.20	3.68	4.22	4.84	5.64	6.90	8.05
Dec	3.41	3.20	2.10	1991	3	7.59	1990	1.24	1980	14.2	9.4	2.0	.5	1.45	1.75	2.19	2.54	2.88	3.21	3.58	3.99	4.52	5.33	6.05
Ann	49.10	48.02	5.85	Jun 1972	23	15.25	Jun 1972	.77+	Oct 1982	144.5	110.2	30.9	9.3	38.85	40.92	43.52	45.46	47.16	48.79	50.46	52.29	54.48	57.62	60.31

+ 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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**Station: DERRY 4 SW, PA**

**COOP ID: 362108**

**Climate Division: PA 9**

**NWS Call Sign:**

**Elevation: 1,060 Feet**

**Lat: 40° 18N**

**Lon: 79° 20W**

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	13.0	12.1	3	2	17.0	1996	8	42.8	1994	21	1994	5	11	1977	6.4	4.8	1.7	.5	.1	10.9	6.6	4.0	1.6
Feb	10.0	8.0	2	1	14.0	1972	19	30.5	1972	24	1977	10	13	1979	5.1	4.2	1.0	.4	@	9.2	4.6	3.0	1.6
Mar	6.4	5.5	1	#	15.0	1993	14	18.8	1999	19	1993	15	3	1993	3.3	2.2	1.0	.4	.1	4.0	2.0	1.0	.2
Apr	1.5	.3	#	#	4.0	1985	9	5.5	1990	4	1985	9	#+	2000	.9	.7	.1	.0	.0	.8	.2	.0	.0
May	#	.0	0	0	#	1989	4	#	1989	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	.2	.0	#	0	4.5	1972	18	4.5	1972	#+	1997	28	#+	1997	@	@	@	.0	.0	.0	.0	.0	.0
Nov	2.9	1.0	#	#	12.0	1995	15	18.8	1995	12	1995	15	2	1995	1.6	1.0	.3	.1	@	2.0	.7	.3	@
Dec	6.6	5.0	1	#	16.0	1992	11	19.0	1989	26	1992	12	6	1992	4.1	3.2	.8	.2	.1	6.8	3.5	1.7	.3
Ann	40.6	31.9	N/A	N/A	17.0	Jan 1996	8	42.8	Jan 1994	26	Dec 1992	12	13	Feb 1979	21.4	16.1	4.9	1.6	.3	33.7	17.6	10.0	3.7

+ 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

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**Elevation: 1,060 Feet**

**Lat: 40° 18N**

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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	6/16	6/07	6/01	5/27	5/22	5/17	5/12	5/06	4/27
32	5/26	5/20	5/16	5/13	5/10	5/06	5/03	4/29	4/23
28	5/15	5/09	5/04	4/30	4/26	4/23	4/19	4/14	4/07
24	5/02	4/26	4/21	4/18	4/14	4/10	4/07	4/02	3/27
20	4/18	4/12	4/08	4/04	4/01	3/28	3/25	3/21	3/15
16	4/09	4/03	3/30	3/26	3/22	3/18	3/14	3/10	3/03
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	9/27	9/30	10/03	10/07	10/12
32	9/19	9/26	9/30	10/04	10/08	10/11	10/15	10/20	10/26
28	10/05	10/12	10/17	10/21	10/24	10/28	11/01	11/06	11/13
24	10/13	10/20	10/25	10/29	11/02	11/06	11/10	11/15	11/21
20	10/29	11/05	11/10	11/14	11/18	11/22	11/26	11/30	12/07
16	11/13	11/20	11/25	11/30	12/04	12/08	12/12	12/17	12/24
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	155	145	139	133	127	122	116	109	99
32	178	169	162	156	150	145	139	132	123
28	211	201	193	186	180	174	168	160	149
24	230	220	213	207	201	195	189	182	172
20	262	251	243	237	230	224	217	209	198
16	280	272	266	261	256	251	246	240	232

\* 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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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	1152	976	812	489	231	44	5	14	81	394	681	1005	5884
60	997	836	657	341	135	12	0	1	26	261	532	850	4648
57	904	752	569	256	90	5	0	0	10	194	445	757	3982
55	842	697	511	205	66	2	0	0	5	155	390	703	3576
50	699	568	370	97	25	0	0	0	1	79	260	558	2657
32	256	185	61	0	0	0	0	0	0	0	19	167	688

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	127	133	272	502	843	1072	1255	1209	968	637	328	185	7531
55	0	1	9	17	195	385	542	496	284	78	9	8	2024
57	0	0	5	8	158	327	480	434	229	55	4	0	1700
60	0	0	0	3	110	244	387	342	154	30	1	0	1271
65	0	0	0	0	51	126	237	200	60	8	0	0	682
70	0	0	0	0	18	46	111	93	13	1	0	0	282

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	34	41	130	295	599	832	995	947	715	393	160	51	34	75	205	500	1099	1931	2926	3873	4588	4981	5141	5192
45	10	15	74	186	445	682	840	792	565	258	89	24	10	25	99	285	730	1412	2252	3044	3609	3867	3956	3980
50	0	4	38	105	307	532	685	637	418	146	43	4	0	4	42	147	454	986	1671	2308	2726	2872	2915	2919
55	0	0	15	54	187	389	530	482	280	72	14	1	0	0	15	69	256	645	1175	1657	1937	2009	2023	2024
60	0	0	5	19	97	249	376	330	166	26	1	0	0	0	5	24	121	370	746	1076	1242	1268	1269	1269
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	20	24	87	199	379	547	671	628	458	239	96	30	20	44	131	330	709	1256	1927	2555	3013	3252	3348	3378

(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:  
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## 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](http://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"><li>a. Temperature/ Precipitation Tables<ol style="list-style-type: none"><li>1. 1971-2000 Monthly Normals</li><li>2. Cooperative Summary of the Day</li><li>3. National Weather Service station records</li><li>4. 1971-2000 serially complete daily data</li></ol></li><li>b. Degree Day Table<ol style="list-style-type: none"><li>1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals</li><li>2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data</li></ol></li></ol> | <ol style="list-style-type: none"><li>c. Snow Tables<ol style="list-style-type: none"><li>1. Snow Climatology</li><li>2. Cooperative Summary of the Day</li></ol></li><li>d. Freeze Data Table<br/>1971-2000 serially complete daily data</li></ol> |
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## References

U.S. Climate Normals 1971-2000, [www.ncdc.noaa.gov/normal.html](http://www.ncdc.noaa.gov/normal.html)  
U.S. Climate Normals 1971-2000-Products Clim20, [www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html)  
Snow Climatology Project Description, [www.ncdc.noaa.gov/oa/climate/monitoring/snowclim/mainpage.html](http://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](http://www1.ncdc.noaa.gov/pub/data/special/serialcomplete_jam_0900.pdf)