U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Service

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: LAUREL MOUNTAIN, PA **COOP ID: 364836**

Climate Division: PA 9 **NWS Call Sign:** **Elevation: 2,760 Feet** **Lat: 40˚12N** **Lon: 79˚11W**

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	30.1	15.7	22.9	66	2000	2	32.3	1990	-25	1982	17	8.4	1977	1305	0	.0	.0	2.4	16.5	29.4	3.8
Feb	33.0	16.6	24.8	70	2001	25	35.1	2000	-14	1979	18	12.2	1978	1125	0	.0	.0	3.2	14.0	25.1	2.4
Mar	42.6	24.7	33.7	82+	1998	30	43.7	2000	-9	1980	2	25.7	1984	972	0	.0	.0	10.2	6.3	23.2	.5
Apr	54.1	33.8	44.0	86	1976	19	49.0	1998	9	1982	7	37.6	1975	632	0	.0	.0	21.4	.6	14.4	.0
May	64.5	44.6	54.6	85+	1971	20	62.2	1998	20	1978	2	49.5	1997	340	16	.0	.2	29.4	.0	2.3	.0
Jun	71.4	54.2	62.8	91	1999	27	68.1	1973	33+	1972	11	57.6	1972	123	57	.0	.1	29.9	.0	.0	.0
Jul	74.7	59.0	66.9	93	1988	17	74.0	1999	41	1979	5	63.2	1984	51	109	.0	1.2	31.0	.0	.0	.0
Aug	73.5	58.0	65.8	90	2001	8	70.4	1988	37	1982	29	61.7	1982	69	91	.0	.5	31.0	.0	.0	.0
Sep	66.9	51.4	59.2	88	1999	27	65.3	1998	32+	1984	28	55.4	1975	193	18	.0	.0	29.6	.0	.3	.0
Oct	56.5	40.2	48.4	78+	2000	5	55.4	1971	17+	1972	20	41.5	1988	521	4	.0	.0	24.2	.1	7.2	.0
Nov	44.7	30.8	37.8	74	1982	3	46.1	1999	1	1976	30	30.1	1976	818	0	.0	.0	12.5	4.1	18.1	.0
Dec	34.6	20.9	27.8	74	2001	5	37.4	1998	-21	1983	25	15.2	1989	1155	0	.0	.0	4.8	12.1	26.9	1.5
Ann	53.9	37.5	45.7	93	Jul 1988	17	74.0	Jul 1999	-25	Jan 1982	17	8.4	Jan 1977	7304	295	.0	2.0	229.6	53.7	146.9	8.2

\+ 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

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1970-2001

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

Issue Date: February 2004

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Climate Division: PA 9 **NWS Call Sign:** **Elevation: 2,760 Feet** **Lat: 40˚12N** **Lon: 79˚11W**

Precipitation (inches)

Precipitation Totals

Month	Means/ Medians(1) Mean	Means/ Medians(1) Median	Extremes Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year
Jan	4.02	3.79	4.00	1982	24	8.94	1982	1.35	1977
Feb	3.51	3.16	1.68	1981	21	7.39	1994	.97	1978
Mar	4.51	4.88	2.30	2000	19	7.47	1994	1.86	1990
Apr	4.75	4.73	2.53	1981	12	7.84	1983	1.77	1971
May	4.80	4.65	2.30	1971	6	8.56	1996	1.20	1991
Jun	5.06	5.07	4.30	1972	23	12.37	1972	1.88	1979
Jul	4.95	5.14	2.18	1988	21	8.61	1979	1.63	1975
Aug	4.68	4.33	2.64	1979	27	10.37	1979	1.63	1983
Sep	4.55	4.07	4.00	1971	14	10.87	1971	1.67	1980
Oct	3.51	3.33	2.00	2000	18	8.28	1976	1.13	1982
Nov	4.12	3.77	2.28	1987	30	12.22	1985	1.03	1976
Dec	3.95	3.75	2.02	2001	18	8.44	1990	2.15	1988
Ann	52.41	51.00	4.30	Jun 1972	23	12.37	Jun 1972	.97	Feb 1978

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	18.3	9.9	1.8	.3
Feb	16.5	9.4	1.6	.2
Mar	15.6	10.4	2.6	.5
Apr	14.9	9.9	2.7	.7
May	12.9	9.4	2.6	.6
Jun	11.3	8.8	2.8	1.0
Jul	12.5	8.3	3.1	1.2
Aug	12.0	8.0	2.7	.9
Sep	9.0	7.0	2.3	.7
Oct	11.6	7.6	2.2	.7
Nov	14.5	8.7	2.6	.6
Dec	16.4	9.2	1.9	.4
Ann	165.5	106.6	28.9	7.8

Precipitation Probabilities (1)

Probability that the monthly/annual precipitation will be equal to or less than the indicated amount

Monthly/Annual Precipitation vs Probability Levels
These values were determined from the incomplete gamma distribution

Month	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	1.63	2.00	2.52	2.95	3.36	3.77	4.22	4.73	5.38	6.38	7.28
Feb	1.50	1.82	2.26	2.62	2.96	3.31	3.68	4.10	4.64	5.46	6.20
Mar	2.07	2.47	3.01	3.46	3.87	4.28	4.73	5.23	5.87	6.83	7.70
Apr	2.34	2.74	3.29	3.74	4.14	4.55	4.99	5.48	6.10	7.02	7.86
May	2.11	2.54	3.14	3.63	4.08	4.54	5.03	5.60	6.31	7.39	8.37
Jun	1.94	2.41	3.08	3.64	4.17	4.71	5.30	5.98	6.84	8.17	9.38
Jul	2.33	2.76	3.35	3.83	4.27	4.72	5.19	5.74	6.42	7.44	8.37
Aug	2.08	2.49	3.07	3.55	3.99	4.43	4.91	5.45	6.14	7.18	8.13
Sep	1.85	2.27	2.86	3.34	3.80	4.27	4.77	5.34	6.08	7.19	8.21
Oct	1.38	1.70	2.17	2.55	2.91	3.28	3.68	4.14	4.72	5.62	6.43
Nov	1.39	1.78	2.35	2.84	3.30	3.78	4.30	4.91	5.69	6.90	8.01
Dec	2.07	2.39	2.82	3.17	3.49	3.80	4.14	4.51	4.98	5.69	6.32
Ann	42.38	44.42	46.98	48.89	50.56	52.15	53.78	55.56	57.69	60.73	63.32

\+ 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: 1970-2001
(3) Derived from 1971-2000 serially complete daily data

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Snow (inches)

Snow Totals

Means/Medians (1)

Extremes (2)

Mean Number of Days (1)

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	27.9	25.2	7	5	12.0	1978	18	58.2	1978	36	1978	24	21	1977	12.8	9.4	3.3	1.5	.2	23.3	18.1	14.0	5.8
Feb	22.1	19.5	11	10	15.0	1979	19	44.2	1972	39	1979	20	29	1978	8.7	6.1	2.5	1.3	.2	17.7	14.8	12.4	9.8
Mar	13.5	9.8	5	4	14.0	1984	9	35.1	1999	38	1978	5	23	1978	7.3	5.7	2.5	.8	.2	13.2	7.9	5.4	2.2
Apr	4.7	3.3	#	#	6.0	1982	10	18.0	1982	12	1982	10	2	1982	2.6	1.8	.6	.1	.0	3.4	1.3	.4	.1
May	.2	.0	#	0	2.5	1989	7	3.0	1989	3	1989	7	#+	1989	.2	.1	.0	.0	.0	.1	.1	.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	#	1976	12	#	1976	.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	#	1976	22	#	1976	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.5	#	#	#	5.0	1972	19	5.0	1972	5	1972	19	#+	2000	.3	.1	.1	.1	.0	.3	.1	.1	.0
Nov	8.3	7.0	1	1	10.0	1971	22	22.3	1971	15	1971	25	4	1971	4.8	3.3	.6	.2	.1	6.6	2.5	.7	.3
Dec	17.0	13.6	3	3	10.0	1989	15	41.0	1989	17+	1989	27	9	1989	8.5	5.5	1.6	.6	.1	15.6	9.5	5.5	2.7
Ann	94.2	78.4	N/A	N/A	15.0	Feb 1979	19	58.2	Jan 1978	39	Feb 1979	20	29	Feb 1978	45.2	32.0	11.2	4.6	.8	80.2	54.3	38.5	20.9

+ 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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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	6/08	6/02	5/28	5/24	5/21	5/17	5/14	5/09	5/03
32	5/20	5/15	5/12	5/10	5/07	5/05	5/02	4/29	4/24
28	5/12	5/08	5/04	5/02	4/29	4/27	4/24	4/21	4/16
24	5/02	4/26	4/22	4/18	4/15	4/11	4/08	4/04	3/29
20	4/20	4/15	4/12	4/09	4/06	4/03	3/31	3/27	3/22
16	4/11	4/07	4/04	4/01	3/29	3/27	3/24	3/21	3/16

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	9/14	9/19	9/23	9/26	9/29	10/02	10/05	10/08	10/13
32	9/25	9/30	10/03	10/06	10/09	10/12	10/15	10/19	10/24
28	10/07	10/12	10/16	10/19	10/22	10/25	10/28	11/01	11/06
24	10/17	10/22	10/26	10/30	11/02	11/05	11/08	11/12	11/17
20	10/25	10/31	11/05	11/08	11/12	11/15	11/19	11/23	11/29
16	11/09	11/16	11/20	11/24	11/27	12/01	12/04	12/09	12/15

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	152	144	139	134	130	126	121	116	108
32	175	168	163	158	154	150	146	141	134
28	195	188	183	179	175	171	167	162	156
24	224	216	210	205	200	196	191	185	177
20	243	235	229	224	219	214	209	203	195
16	266	258	252	247	242	237	232	226	218

***** 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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Degree Days to Selected Base Temperatures (˚F)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	1305	1125	972	632	340	123	51	69	193	521	818	1155	7304
60	1150	985	817	483	216	51	11	17	92	378	668	1000	5868
57	1057	901	724	395	155	26	4	6	52	300	579	907	5106
55	995	845	664	337	120	15	0	2	34	253	521	845	4631
50	840	706	521	208	54	3	0	0	8	154	383	697	3574
32	360	276	134	6	0	0	0	0	0	7	56	243	1082

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	78	75	185	363	699	924	1081	1045	815	513	228	111	6117
55	0	0	2	5	106	249	368	334	158	46	3	0	1271
57	0	0	0	2	79	199	310	277	117	31	1	0	1016
60	0	0	0	1	47	135	224	195	67	17	0	0	686
65	0	0	0	0	16	57	109	91	18	4	0	0	295
70	0	0	0	0	4	15	36	28	2	0	0	0	85

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	8	15	82	226	482	689	890	836	585	290	111	33	8	23	105	331	813	1502	2392	3228	3813	4103	4214	4247
45	3	3	43	136	338	542	735	681	439	177	61	10	3	6	49	185	523	1065	1800	2481	2920	3097	3158	3168
50	0	1	18	75	208	394	580	526	299	89	23	3	0	1	19	94	302	696	1276	1802	2101	2190	2213	2216
55	0	0	7	37	112	257	426	375	175	38	8	0	0	0	7	44	156	413	839	1214	1389	1427	1435	1435
60	0	0	3	11	45	134	276	228	85	6	0	0	0	0	3	14	59	193	469	697	782	788	788	788
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	4	8	49	148	272	413	575	535	334	153	61	13	4	12	61	209	481	894	1469	2004	2338	2491	2552	2565

(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.
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

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

c. Snow Tables
   1. Snow Climatology
   2. Cooperative Summary of the Day

d. Freeze Data Table
   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