

# Climatology of the United States

No. 20

1971-2000

Station: SALINA 3 W, PA

COOP ID: 367782

Climate Division: PA 9

NWS Call Sign:

Elevation: 1,109 Feet Lat: 40° 31N

Lon: 79° 33W

## 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	36.6	15.4	26.0	71	1985	1	35.0	1998	-30	1994	21	10.9	1977	1210	0	.0	.0	4.7	11.9	28.0	3.5
Feb	40.0	16.4	28.2	76	2000	27	35.6	1998	-21	1979	11	14.4	1978	1030	0	.0	.0	6.2	8.2	24.7	2.5
Mar	49.9	24.1	37.0	83	1998	31	44.5	1973	-14	1978	2	31.0	1984	869	0	.0	.0	15.6	2.5	22.9	.5
Apr	61.2	33.0	47.1	90+	1976	18	52.0	1985	10	1963	10	41.2	1975	537	0	.0	.1	25.2	.1	13.4	.0
May	71.5	43.5	57.5	92	1996	20	64.6	1991	21	1978	1	51.5	1994	256	24	.0	.2	30.8	.0	2.7	.0
Jun	79.2	52.0	65.6	96	1988	23	69.4	1996	29+	1988	10	61.6	1972	66	84	.0	1.7	30.0	.0	.1	.0
Jul	83.2	56.7	70.0	101	1988	17	73.1	1987	36	1988	1	66.2	2000	10	163	@	4.7	31.0	.0	.0	.0
Aug	82.0	55.0	68.5	100	1988	18	74.0	1995	32	1982	29	65.4	1976	30	138	@	2.9	31.0	.0	@	.0
Sep	75.3	48.0	61.7	98+	1953	3	66.0	1971	28	1974	24	57.9	1988	130	29	.0	.7	30.0	.0	.7	.0
Oct	64.3	36.9	50.6	87	1954	3	56.8	1984	15	1965	29	44.8	1988	450	4	.0	.0	28.7	.0	9.0	.0
Nov	51.9	29.3	40.6	82	1961	3	45.3	1975	2	1958	30	31.5	1976	732	0	.0	.0	16.5	.8	17.9	.0
Dec	41.7	21.2	31.5	74	1982	3	39.0	1984	-20	1989	24	16.5	1989	1041	0	.0	.0	6.8	6.4	25.7	1.2
Ann	61.4	36.0	48.7	101	Jul 1988	17	74.0	Aug 1995	-30	Jan 1994	21	10.9	Jan 1977	6361	442	.0	10.3	256.5	29.9	145.1	7.7

+ 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/normal/usnormals.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormals.html)

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1953-2001

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

# 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: SALINA 3 W, PA

COOP ID: 367782

Climate Division: PA 9

NWS Call Sign:

Elevation: 1,109 Feet Lat: 40°31N

Lon: 79°33W

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	2.58	2.29	1.28	1966	2	5.91	1999	.94	1980	14.8	7.3	1.2	.2	.96	1.20	1.55	1.84	2.11	2.40	2.70	3.06	3.51	4.21	4.85
Feb	2.46	2.29	2.22	1988	2	4.05	1975	.36	1987	12.6	6.5	1.3	.2	.86	1.09	1.43	1.71	1.99	2.26	2.57	2.93	3.38	4.08	4.73
Mar	3.33	3.09	1.83	1963	4	6.11	1994	1.46	1979	13.9	7.9	2.2	.5	1.37	1.68	2.11	2.46	2.79	3.13	3.49	3.91	4.44	5.25	5.99
Apr	3.37	3.43	1.80+	1957	4	6.56	1998	.63	1971	13.9	8.3	1.9	.5	1.20	1.52	1.98	2.36	2.73	3.11	3.52	3.99	4.60	5.55	6.41
May	4.17	4.24	2.12	1971	6	7.27	1997	1.84	1981	13.7	9.3	2.6	.7	2.01	2.37	2.86	3.26	3.62	3.99	4.38	4.82	5.38	6.21	6.97
Jun	4.23	3.96	2.89	1972	23	10.73	1972	1.13	1988	12.7	8.0	2.8	1.0	1.32	1.72	2.32	2.83	3.32	3.84	4.40	5.06	5.92	7.25	8.48
Jul	4.52	4.40	4.09	1985	9	12.25	1992	1.21	1975	12.1	8.2	2.8	1.2	1.68	2.10	2.71	3.22	3.70	4.19	4.73	5.35	6.14	7.36	8.48
Aug	3.88	3.51	2.25	1980	12	7.81	1994	.76	1989	11.3	7.2	3.1	1.0	1.38	1.75	2.27	2.72	3.14	3.58	4.05	4.60	5.31	6.39	7.39
Sep	3.74	3.91	2.51	1999	30	6.13	1996	1.00	1984	11.5	7.3	2.4	.9	1.53	1.87	2.36	2.76	3.13	3.51	3.92	4.40	4.99	5.91	6.74
Oct	2.59	2.63	2.48	1954	15	5.18	1976	.81	1994	11.3	6.4	1.7	.2	.96	1.20	1.55	1.84	2.12	2.40	2.71	3.07	3.53	4.23	4.88
Nov	3.52	3.17	2.07	1997	8	10.96	1985	.51	1976	13.8	7.8	2.2	.5	.97	1.30	1.81	2.25	2.69	3.14	3.64	4.24	5.01	6.23	7.36
Dec	2.91	2.78	2.43	1991	3	6.33	1990	1.06	1976	14.7	7.6	1.4	.3	1.17	1.44	1.81	2.13	2.42	2.72	3.04	3.42	3.89	4.61	5.27
Ann	41.30	42.13	4.09	Jul 1985	9	12.25	Jul 1992	.36	Feb 1987	156.3	91.8	25.6	7.2	33.22	34.87	36.93	38.46	39.81	41.09	42.40	43.84	45.56	48.02	50.11

+ 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: 1953-2001

(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](http://www.ncdc.noaa.gov)

Station: SALINA 3 W, PA

COOP ID: 367782

Climate Division: PA 9

NWS Call Sign:

Elevation: 1,109 Feet

Lat: 40°31N

Lon: 79°33W

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	8.0	7.8	3	1	12.0	1996	8	21.5	1977	30	1978	22	15	1994	6.4	3.5	1.2	.3	.1	10.7	5.9	3.3	1.0
Feb	8.1	6.5	3	1	11.0	1979	19	25.4	1979	26	1979	20	14	1985	4.7	3.1	.9	.2	@	9.4	5.1	2.7	.5
Mar	4.1	3.1	1	#	14.0	1993	14	19.7	1993	16	1993	15	5	1978	2.1	1.2	.5	.1	.1	3.0	1.3	.4	.1
Apr	.4	.0	#	0	4.0	1982	9	5.0	1982	3	1982	9	#+	2000	.4	.2	@	.0	.0	.3	@	.0	.0
May	#	.0	0	0	#	1977	9	#	1977	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	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	1.8	.5	#	#	7.0	1980	17	10.0	1971	7	1995	16	2	1995	.9	.6	.2	.1	.0	1.1	.4	.2	.0
Dec	3.7	2.8	1	#	18.0	1992	11	18.0	1992	23	1992	13	6	1992	3.1	1.5	.4	.2	.1	5.4	1.7	1.1	.2
Ann	26.1	20.7	N/A	N/A	18.0	Dec 1992	11	25.4	Feb 1979	30	Jan 1978	22	15	Jan 1994	17.6	10.1	3.2	.9	.3	29.9	14.4	7.7	1.8

+ 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/normal/usnormals.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormals.html)

# Climatography of the United States

## No. 20 1971-2000

**Station: SALINA 3 W, PA**

**COOP ID: 367782**

**Climate Division: PA 9**

**NWS Call Sign:**

**Elevation: 1,109 Feet**

**Lat: 40°31N**

**Lon: 79°33W**

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	6/14	6/08	6/03	5/30	5/26	5/23	5/19	5/14	5/08
32	5/31	5/24	5/20	5/16	5/13	5/09	5/06	5/01	4/25
28	5/12	5/07	5/04	5/01	4/29	4/26	4/23	4/20	4/16
24	4/30	4/25	4/22	4/19	4/17	4/14	4/11	4/08	4/04
20	4/17	4/13	4/09	4/07	4/04	4/01	3/29	3/26	3/22
16	4/04	3/31	3/28	3/25	3/23	3/21	3/18	3/15	3/11
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	9/07	9/12	9/15	9/18	9/21	9/24	9/27	10/01	10/06
32	9/15	9/21	9/25	9/29	10/03	10/07	10/10	10/15	10/21
28	10/04	10/09	10/13	10/16	10/20	10/23	10/26	10/30	11/04
24	10/15	10/20	10/24	10/27	10/30	11/02	11/06	11/10	11/15
20	10/24	10/31	11/04	11/08	11/12	11/16	11/20	11/24	12/01
16	11/12	11/18	11/23	11/26	11/30	12/03	12/07	12/11	12/17
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	141	133	127	122	117	113	108	102	94
32	169	160	153	148	142	137	131	125	116
28	195	187	182	177	173	169	164	159	151
24	214	208	203	199	196	193	189	184	178
20	245	237	231	226	221	217	212	206	197
16	272	265	260	255	251	247	242	237	230

\* 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](http://www.ncdc.noaa.gov/oa/climate/normal/usnormals.html)

**Climatography  
of the United States  
No. 20  
1971-2000**

**Station: SALINA 3 W, PA**

**COOP ID: 367782**

**Climate Division: PA 9      NWS Call Sign:      Elevation: 1,109 Feet    Lat: 40°31N      Lon: 79°33W**

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	1210	1030	869	537	256	66	10	30	130	450	732	1041	6361
60	1055	890	714	389	146	19	0	5	49	310	582	886	5045
57	962	806	621	303	96	7	0	0	23	235	493	793	4339
55	900	750	559	249	68	3	0	0	12	191	435	734	3901
50	750	614	415	134	24	0	0	0	2	103	300	590	2932
32	284	204	65	1	0	0	0	0	0	1	25	182	762

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	98	99	220	453	791	1008	1176	1131	890	578	283	164	6891
55	0	0	0	12	146	321	463	418	212	54	3	3	1632
57	0	0	0	6	111	265	401	356	162	36	1	0	1338
60	0	0	0	2	69	186	308	267	98	18	0	0	948
65	0	0	0	0	24	84	163	138	29	4	0	0	442
70	0	0	0	0	6	23	60	52	4	0	0	0	145

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	27	34	116	286	583	808	965	919	691	368	146	46	27	61	177	463	1046	1854	2819	3738	4429	4797	4943	4989
45	7	13	65	178	433	658	810	764	541	238	80	23	7	20	85	263	696	1354	2164	2928	3469	3707	3787	3810
50	1	2	29	101	291	510	655	609	392	129	36	5	1	3	32	133	424	934	1589	2198	2590	2719	2755	2760
55	0	0	10	49	173	363	500	456	258	62	11	0	0	0	10	59	232	595	1095	1551	1809	1871	1882	1882
60	0	0	2	21	86	228	345	304	146	19	1	0	0	0	2	23	109	337	682	986	1132	1151	1152	1152
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	17	26	90	204	374	533	639	611	442	239	93	29	17	43	133	337	711	1244	1883	2494	2936	3175	3268	3297

(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](http://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](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> |
|---|---|

## 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)