

# Climatography of the United States

No. 20

1971-2000

Station: LAMBERTVILLE, NJ

COOP ID: 284635

Climate Division: NJ 1

NWS Call Sign:

Elevation: 68 Feet

Lat: 40° 22N

Lon: 74° 57W

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	39.5	21.3	30.4	74	1950	26	38.8	1998	-11	1984	22	20.9	1977	1074	0	.0	.0	5.4	7.4	26.8	.9
Feb	42.3	22.1	32.2	75+	1949	15	39.6	1998	-18	1934	9	21.5	1979	918	0	.0	.0	7.4	4.2	22.9	.5
Mar	52.0	30.2	41.1	88+	1945	29	45.8	1977	0	1967	19	35.8	1984	741	0	.0	.0	18.3	.4	19.0	.0
Apr	63.0	39.1	51.1	95	1976	18	54.6	1985	13	1982	7	47.0	1975	418	0	.0	.3	27.8	.0	7.9	.0
May	73.6	49.1	61.4	97	1962	19	67.1	1991	25	1977	9	57.9	1992	153	41	.0	1.2	31.0	.0	.3	.0
Jun	82.6	58.5	70.6	100	1952	26	73.6	1973	38+	1938	1	67.4	1992	12	177	.0	5.1	30.0	.0	.0	.0
Jul	86.9	63.5	75.2	104+	1936	9	78.3	1988	45+	1957	3	71.2	2000	0	316	.6	11.3	31.0	.0	.0	.0
Aug	85.2	62.3	73.8	101+	1953	31	77.0	1980	38	2000	21	69.1	1992	2	274	@	8.1	31.0	.0	.0	.0
Sep	77.8	54.4	66.1	104	1953	2	70.0	1980	29	1963	24	63.2	1975	50	82	.1	1.8	30.0	.0	.1	.0
Oct	66.7	42.3	54.5	95	1941	5	61.2	1971	22+	1976	28	50.2	1988	338	13	.0	.0	30.7	.0	5.6	.0
Nov	54.8	33.8	44.3	84	1950	1	50.0	1975	10+	1932	27	38.8	1976	620	0	.0	.0	21.6	.1	13.9	.0
Dec	44.0	25.7	34.9	75+	1998	5	40.6	1982	-5+	1933	29	23.7	1989	936	0	.0	.0	8.7	3.4	23.8	.1
Ann	64.0	41.9	53.0	104+	Sep 1953	2	78.3	Jul 1988	-18	Feb 1934	9	20.9	Jan 1977	5262	903	.7	27.8	272.9	15.5	120.3	1.5

+ 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/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: 1931-2001

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

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## No. 20 1971-2000

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

**Station: LAMBERTVILLE, NJ**

**COOP ID: 284635**

**Climate Division: NJ 1**

**NWS Call Sign:**

**Elevation: 68 Feet**

**Lat: 40°22N**

**Lon: 74°57W**

### Precipitation (inches)

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	4.04	3.74	2.57	1979	21	10.23	1979	.50	1981	10.7	7.2	3.0	1.0	1.14	1.53	2.11	2.61	3.11	3.62	4.19	4.87	5.74	7.11	8.38
Feb	2.89	2.76	1.92	1966	13	5.31	1979	.97	1980	9.4	6.0	1.9	.7	1.12	1.39	1.77	2.09	2.39	2.70	3.03	3.41	3.90	4.65	5.34
Mar	4.22	3.58	2.85	1999	22	7.95	1983	1.50	1981	11.2	7.3	3.3	1.2	1.61	2.00	2.56	3.03	3.48	3.93	4.42	4.99	5.71	6.83	7.84
Apr	3.98	3.46	3.32	1983	16	9.61	1983	.82	1985	11.0	6.9	2.8	1.0	1.35	1.72	2.28	2.74	3.19	3.65	4.16	4.75	5.50	6.67	7.75
May	4.59	4.46	3.01	1969	20	8.19	1989	.83	1993	12.3	8.4	3.1	1.1	1.57	2.01	2.64	3.17	3.69	4.21	4.79	5.46	6.32	7.66	8.89
Jun	4.07	3.64	4.68	1946	2	10.41	1996	.69	1986	10.4	6.9	2.7	1.1	1.01	1.39	1.98	2.51	3.03	3.58	4.19	4.92	5.87	7.38	8.80
Jul	5.06	5.06	4.86	1997	25	10.88	1988	1.54	1999	10.1	7.3	3.2	1.6	1.60	2.08	2.79	3.40	3.99	4.60	5.27	6.05	7.07	8.64	10.10
Aug	4.40	3.85	4.58	1971	27	11.44	1971	.89	1995	9.3	6.7	2.7	1.4	1.22	1.64	2.27	2.82	3.36	3.93	4.55	5.29	6.25	7.76	9.16
Sep	4.56	3.82	5.34	1985	27	11.80	1999	1.55	1986	9.1	6.3	2.8	1.4	1.34	1.77	2.42	2.99	3.53	4.10	4.73	5.48	6.44	7.94	9.34
Oct	3.49	3.21	4.67	1996	19	9.23	1995	.89	1994	8.5	5.5	2.2	.9	1.12	1.45	1.94	2.36	2.76	3.18	3.63	4.17	4.85	5.92	6.91
Nov	3.79	3.33	3.51	1993	28	9.28	1972	.45	1976	9.4	6.2	2.6	1.2	.96	1.31	1.87	2.35	2.84	3.34	3.91	4.58	5.46	6.85	8.15
Dec	3.74	3.24	2.42	1948	30	9.45	1996	.54	1980	10.6	6.3	2.4	1.3	.65	.98	1.52	2.03	2.56	3.13	3.78	4.57	5.62	7.32	8.94
Ann	48.83	47.40	5.34	Sep 1985	27	11.80	Sep 1999	.45	Nov 1976	122.0	81.0	32.7	13.9	36.96	39.32	42.30	44.55	46.53	48.44	50.40	52.55	55.14	58.88	62.08

+ 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: 1931-2001

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

Complete documentation available from:  
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**Climate Division: NJ 1**

**NWS Call Sign:**

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**Lat: 40° 22N**

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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	7.5	5.5	1	#	22.5	1996	8	26.0	1996	18	1978	20	6	1987	3.2	2.5	1.0	.3	.1	10.3	5.5	2.6	.6
Feb	6.4	2.5	1	#	12.0	1979	19	33.0	1983	25	1983	12	10	1978	2.0	1.7	.8	.5	.1	7.5	4.9	2.5	1.1
Mar	2.8	1.5	#	#	12.0	1993	14	12.0	1993	10	1978	5	3	1978	1.2	1.1	.6	.2	@	1.8	1.2	.5	.1
Apr	.8	.0	#	0	6.0	1982	6	7.0	1982	6	1982	6	1	1982	.3	.2	.2	@	.0	.2	.1	.1	.0
May	.0	.0	0	0	.0	0	0	.0	0	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	.1	.0	#	0	1.0	1972	19	1.0+	1979	#+	1979	10	#+	1979	.1	.1	.0	.0	.0	.0	.0	.0	.0
Nov	.6	.0	#	0	5.0	1989	23	5.0	1989	4	1989	23	#+	1989	.2	.2	.1	@	.0	.2	.1	.0	.0
Dec	3.0	2.0	#	#	8.0	1990	28	10.3	2000	8	1990	28	1	1990	1.4	1.1	.4	.2	.0	2.6	.6	.2	.0
Ann	21.2	11.5	N/A	N/A	22.5	Jan 1996	8	33.0	Feb 1983	25	Feb 1983	12	10	Feb 1978	8.4	6.9	3.1	1.2	.2	22.6	12.4	5.9	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

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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	5/21	5/16	5/13	5/11	5/08	5/06	5/03	4/30	4/26
32	5/08	5/04	5/01	4/29	4/26	4/24	4/22	4/19	4/14
28	4/28	4/23	4/19	4/15	4/12	4/09	4/06	4/02	3/28
24	4/16	4/11	4/07	4/03	3/31	3/28	3/25	3/21	3/15
20	4/06	3/31	3/27	3/23	3/20	3/17	3/13	3/09	3/03
16	3/26	3/19	3/14	3/09	3/05	3/01	2/24	2/19	2/12
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	9/24	9/28	10/01	10/03	10/06	10/08	10/11	10/14	10/18
32	9/28	10/04	10/08	10/11	10/14	10/18	10/21	10/25	10/30
28	10/10	10/15	10/19	10/22	10/25	10/28	10/31	11/04	11/09
24	10/23	10/29	11/03	11/07	11/11	11/15	11/19	11/24	12/01
20	11/09	11/15	11/20	11/23	11/27	12/01	12/04	12/09	12/15
16	11/26	12/02	12/06	12/10	12/14	12/17	12/21	12/25	12/31
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	166	161	157	153	150	147	143	139	133
32	193	185	179	175	170	166	161	155	148
28	216	209	204	199	195	191	186	181	174
24	253	243	236	230	224	219	213	206	196
20	275	267	261	256	251	247	242	236	228
16	313	302	295	289	283	277	271	263	253

\* 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	1074	918	741	418	153	12	0	2	50	338	620	936	5262
60	919	778	586	272	66	1	0	0	13	213	471	781	4100
57	826	694	493	192	34	0	0	0	5	152	383	688	3467
55	764	638	432	144	19	0	0	0	2	117	325	626	3067
50	617	505	291	56	3	0	0	0	0	53	194	480	2199
32	183	127	20	0	0	0	0	0	0	0	3	95	428

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	132	133	302	572	911	1155	1339	1295	1022	698	373	182	8114
55	0	0	1	26	217	465	626	582	334	102	5	0	2358
57	0	0	0	14	169	405	564	520	277	75	2	0	2026
60	0	0	0	4	108	317	471	427	195	43	0	0	1565
65	0	0	0	0	41	177	316	274	82	13	0	0	903
70	0	0	0	0	9	70	167	138	20	2	0	0	406

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	42	139	354	690	931	1110	1053	801	464	193	46	27	69	208	562	1252	2183	3293	4346	5147	5611	5804	5850
45	7	13	70	225	535	781	955	898	651	317	104	19	7	20	90	315	850	1631	2586	3484	4135	4452	4556	4575
50	1	2	31	121	382	631	800	743	502	192	46	3	1	3	34	155	537	1168	1968	2711	3213	3405	3451	3454
55	0	0	9	58	242	481	645	588	356	99	16	0	0	0	9	67	309	790	1435	2023	2379	2478	2494	2494
60	0	0	4	24	131	332	490	433	222	44	6	0	0	0	4	28	159	491	981	1414	1636	1680	1686	1686
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	20	30	96	226	432	617	751	715	520	295	116	30	20	50	146	372	804	1421	2172	2887	3407	3702	3818	3848

(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)