

Climatography of the United States

No. 20

1971-2000

Station: FLEMINGTON 5 NNW, NJ

COOP ID: 283029

Climate Division: NJ 1

NWS Call Sign:

Elevation: 260 Feet

Lat: 40°34N

Lon: 74°53W

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	36.8	18.4	27.6	74+	1932	14	37.6	1998	-18	1984	22	16.6	1977	1159	0	.0	.0	3.5	9.8	28.0	1.9
Feb	39.9	20.0	30.0	77	1930	25	38.0	1998	-16+	1934	9	19.6	1979	981	0	.0	.0	5.7	6.8	24.9	1.1
Mar	49.8	28.1	39.0	88+	1945	29	45.1	2000	-6	1984	10	32.7	1984	808	0	.0	.0	15.1	1.2	21.8	.1
Apr	61.3	37.0	49.2	94+	1942	30	52.3	1994	14	1969	1	44.6	1975	476	0	.0	.3	26.0	.1	9.1	.0
May	72.0	46.9	59.5	99	1939	31	64.9	1991	25	1966	11	55.0	1973	197	25	.0	.8	30.9	.0	.6	.0
Jun	80.2	56.0	68.1	102	1934	29	71.4	1976	34	1978	15	63.8	1985	31	124	.0	3.1	30.0	.0	.0	.0
Jul	85.1	61.7	73.4	106	1936	10	78.6	1999	41	1957	3	70.4	2000	2	262	.4	8.3	31.0	.0	.0	.0
Aug	83.1	59.9	71.5	104	1955	2	75.5	1980	37	1965	31	67.4	1982	8	209	@	4.9	31.0	.0	.0	.0
Sep	75.6	52.0	63.8	105	1953	2	67.3	1980	27+	1951	30	60.7	1975	85	49	@	1.3	30.0	.0	.1	.0
Oct	64.4	40.0	52.2	97	1941	5	57.7	1971	18	1952	26	47.9	1981	404	6	.0	.0	29.9	.0	6.7	.0
Nov	52.8	32.2	42.5	84+	1950	1	47.4	1975	2	1938	26	36.7	1976	676	0	.0	.0	19.5	.2	16.6	.0
Dec	41.6	24.0	32.8	75	1984	30	38.5	1998	-14	1948	27	20.8	1989	999	0	.0	.0	6.6	4.7	25.7	.2
Ann	61.9	39.7	50.8	106	Jul 1936	10	78.6	Jul 1999	-18	Jan 1984	22	16.6	Jan 1977	5826	675	.4	18.7	259.2	22.8	133.5	3.3

+ 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

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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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: FLEMINGTON 5 NNW, NJ

COOP ID: 283029

Climate Division: NJ 1

NWS Call Sign:

Elevation: 260 Feet

Lat: 40°34N

Lon: 74°53W

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	4.25	4.01	2.82	1936	3	11.33	1979	.77	1981	9.8	7.2	3.1	1.0	1.23	1.63	2.24	2.77	3.28	3.82	4.41	5.10	6.01	7.42	8.73
Feb	3.04	2.69	2.29	1961	4	5.96	1971	.93	1978	8.8	6.1	2.2	.7	1.10	1.39	1.80	2.15	2.47	2.81	3.18	3.61	4.15	4.99	5.76
Mar	4.03	3.79	2.51	1932	28	7.84	1983	1.13	1995	10.0	6.7	2.9	1.1	1.42	1.81	2.36	2.82	3.26	3.72	4.22	4.79	5.53	6.67	7.72
Apr	4.09	3.55	2.95	1983	16	10.41	1983	.88	1985	10.6	6.9	3.0	1.1	1.38	1.76	2.33	2.81	3.27	3.75	4.27	4.88	5.66	6.86	7.98
May	4.87	4.56	3.74	1985	3	9.46	1989	.95	1993	11.6	8.1	3.6	1.4	1.51	1.98	2.67	3.26	3.83	4.42	5.07	5.83	6.82	8.35	9.77
Jun	4.33	4.38	3.99	1946	2	9.60	1972	.72	1999	10.7	7.2	2.8	1.3	1.33	1.74	2.35	2.88	3.39	3.92	4.50	5.18	6.07	7.44	8.72
Jul	4.75	4.42	4.14	1927	23	10.87	1988	1.30	1998	9.5	6.9	3.2	1.6	1.59	2.04	2.69	3.25	3.79	4.34	4.95	5.66	6.57	7.97	9.27
Aug	3.98	3.56	7.20	1971	28	10.43	1971	.29	1995	9.3	6.5	2.2	1.2	.84	1.20	1.78	2.31	2.85	3.42	4.06	4.84	5.85	7.48	9.03
Sep	4.34	3.78	8.49	1999	17	12.42	1999	1.51	1994	8.2	6.2	2.6	1.3	1.21	1.62	2.25	2.79	3.33	3.88	4.50	5.23	6.17	7.65	9.04
Oct	3.84	3.64	4.19	1990	9	9.85	1995	.81	1985	7.9	5.5	2.4	1.2	1.05	1.41	1.97	2.45	2.93	3.42	3.97	4.63	5.48	6.81	8.06
Nov	3.90	3.32	3.34	1932	7	8.98	1972	.46	1976	9.1	6.2	2.7	1.3	1.04	1.41	1.97	2.46	2.95	3.46	4.03	4.70	5.58	6.96	8.24
Dec	3.92	3.88	2.71	1996	2	9.17	1996	.26	1989	10.1	6.6	2.6	1.4	.71	1.05	1.63	2.16	2.70	3.29	3.96	4.78	5.86	7.60	9.26
Ann	49.34	48.62	8.49	Sep 1999	17	12.42	Sep 1999	.26	Dec 1989	115.6	80.1	33.3	14.6	35.77	38.41	41.79	44.35	46.62	48.80	51.06	53.55	56.56	60.92	64.68

+ 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: FLEMINGTON 5 NNW, NJ

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Climate Division: NJ 1

NWS Call Sign:

Elevation: 260 Feet

Lat: 40°34N

Lon: 74°53W

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	8.7	7.5	3	2	19.0	1996	8	19.0	1996	27	1996	9	15	1977	4.0	3.2	1.3	.5	@	10.4	6.6	4.8	1.6
Feb	7.7	3.0	3	2	21.0	1983	12	26.0	1983	33	1979	20	13	1978	3.0	2.1	1.2	.6	.1	7.1	5.2	4.3	1.4
Mar	5.0	2.1	1	#	8.0	1971	5	15.0	1993	17	1978	7	6	1978	1.9	1.2	.6	.4	.0	2.5	1.9	1.4	.8
Apr	1.1	.0	#	0	9.0	1997	1	10.0	1982	9	1982	8	1	1982	.4	.3	.1	.1	.0	.3	.2	.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	1.6	1972	19	1.6	1972	1	1979	11	#	1979	.1	.1	.0	.0	.0	@	.0	.0	.0
Nov	.6	.0	#	#	4.0	1989	23	4.0	1989	4	1989	23	#+	2000	.4	.2	.1	.0	.0	.4	.1	.0	.0
Dec	3.9	2.7	1	#	10.0	2000	31	16.0	2000	13	2000	31	5	1995	1.9	1.2	.5	.2	@	3.0	1.9	.8	.3
Ann	27.1	15.3	N/A	N/A	21.0	Feb 1983	12	26.0	Feb 1983	33	Feb 1979	20	15	Jan 1977	11.7	8.3	3.8	1.8	.1	23.7	15.9	11.4	4.1

+ 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	5/27	5/22	5/18	5/15	5/12	5/09	5/05	5/02	4/27
32	5/15	5/10	5/06	5/03	4/30	4/27	4/24	4/20	4/15
28	4/30	4/25	4/21	4/18	4/15	4/12	4/09	4/05	3/31
24	4/12	4/08	4/05	4/02	3/31	3/28	3/26	3/23	3/18
20	4/05	3/31	3/27	3/24	3/21	3/18	3/14	3/10	3/05
16	3/22	3/17	3/13	3/09	3/06	3/03	2/28	2/24	2/18
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	9/19	9/23	9/26	9/29	10/02	10/04	10/07	10/10	10/15
32	9/30	10/04	10/08	10/10	10/13	10/15	10/18	10/21	10/26
28	10/11	10/17	10/21	10/24	10/27	10/30	11/03	11/07	11/12
24	10/24	10/30	11/03	11/06	11/09	11/12	11/16	11/19	11/25
20	11/03	11/09	11/14	11/18	11/22	11/26	11/30	12/05	12/11
16	11/22	11/28	12/02	12/06	12/10	12/13	12/17	12/21	12/27
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	162	155	151	146	142	138	134	129	123
32	185	178	173	169	165	161	157	152	145
28	219	211	205	199	194	189	184	178	169
24	243	236	231	227	223	218	214	209	202
20	272	263	257	251	246	240	235	228	219
16	302	294	288	282	278	273	267	261	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	1159	981	808	476	197	31	2	8	85	404	676	999	5826
60	1004	841	653	328	95	5	0	0	26	267	526	844	4589
57	911	757	560	243	53	1	0	0	11	196	437	751	3920
55	849	701	498	191	33	0	0	0	5	155	378	689	3499
50	699	561	353	86	7	0	0	0	1	77	242	542	2568
32	241	156	36	0	0	0	0	0	0	0	7	133	573

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	105	99	251	514	851	1083	1283	1224	954	625	322	158	7469
55	0	0	0	15	171	394	570	511	269	67	3	0	2000
57	0	0	0	7	129	335	508	449	215	46	1	0	1690
60	0	0	0	2	78	249	415	356	141	23	0	0	1264
65	0	0	0	0	25	124	262	209	49	6	0	0	675
70	0	0	0	0	5	42	127	93	8	0	0	0	275

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	21	26	101	300	616	856	1052	995	737	411	159	38	21	47	148	448	1064	1920	2972	3967	4704	5115	5274	5312
45	5	5	48	177	462	706	897	840	587	266	81	13	5	10	58	235	697	1403	2300	3140	3727	3993	4074	4087
50	0	0	20	90	312	556	742	685	438	153	34	3	0	0	20	110	422	978	1720	2405	2843	2996	3030	3033
55	0	0	3	42	184	408	587	530	296	75	11	1	0	0	3	45	229	637	1224	1754	2050	2125	2136	2137
60	0	0	2	14	92	268	432	378	174	25	3	0	0	0	2	16	108	376	808	1186	1360	1385	1388	1388
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	14	21	77	193	380	559	708	669	465	260	96	27	14	35	112	305	685	1244	1952	2621	3086	3346	3442	3469

(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

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
- 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">a. Temperature/ Precipitation Tables<ol style="list-style-type: none">1. 1971-2000 Monthly Normals2. Cooperative Summary of the Day3. National Weather Service station records4. 1971-2000 serially complete daily datab. Degree Day Table<ol style="list-style-type: none">1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data | <ol style="list-style-type: none">c. Snow Tables<ol style="list-style-type: none">1. Snow Climatology2. Cooperative Summary of the Dayd. Freeze Data Table
1971-2000 serially complete daily data |
|---|---|

References

U.S. Climate Normals 1971-2000, www.ncdc.noaa.gov/normal.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normal/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