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: LITTLE FALLS, NJ **COOP ID: 284887**

Climate Division: NJ 1 **NWS Call Sign:** **Elevation: 150 Feet** **Lat: 40˚53N** **Lon: 74˚14W**

Temperature (˚F)

Month	Mean (1)			Extremes										Degree Days (1) Base Temp 65		Mean Number of Days (3)					
	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	37.7	19.5	28.6	73	1950	27	37.2	1998	-11	1961	22	19.8	1982	1128	0	.0	.0	3.8	9.4	27.8	1.1
Feb	40.5	21.2	30.9	76	1954	17	38.4	1998	-8	1961	2	20.2	1979	956	0	.0	.0	5.4	6.3	23.8	.4
Mar	49.7	30.0	39.9	88	1998	31	45.2	1977	3+	1967	19	33.0	1984	781	0	.0	.0	14.5	1.1	19.0	.0
Apr	60.8	39.7	50.3	95	1976	19	53.7	1976	17+	1954	4	45.7	1975	443	0	.0	.3	25.8	.1	5.0	.0
May	71.8	49.9	60.9	101	1962	20	67.0	1991	30	1996	14	57.3	1973	166	36	.0	1.0	30.8	.0	.1	.0
Jun	80.3	59.2	69.8	101	1952	27	73.3	1994	40+	1957	10	65.6	1982	18	161	.0	3.6	30.0	.0	.0	.0
Jul	85.5	64.4	75.0	104	1966	4	78.5	1999	40	1999	21	71.3	2000	0	308	.3	7.9	31.0	.0	.0	.0
Aug	83.2	62.9	73.1	103	1954	1	76.5	1988	41	1965	31	70.2	1982	1	251	.0	4.3	31.0	.0	.0	.0
Sep	75.6	54.5	65.1	105	1953	3	68.7	1980	32+	1957	28	62.0	1975	61	63	.0	1.0	30.0	.0	.0	.0
Oct	64.5	42.0	53.3	90+	1949	11	59.5	1971	23	1972	21	48.7	1988	368	5	.0	.0	30.1	.0	3.6	.0
Nov	53.5	34.2	43.9	84	1950	2	49.1	1975	14	1989	24	39.0	1976	635	0	.0	.0	19.6	.1	12.5	.0
Dec	42.5	25.2	33.9	74+	1998	8	39.3	1998	-6+	1950	28	21.6	1989	965	0	.0	.0	7.2	4.8	24.5	.2
Ann	62.1	41.9	52.1	105	Sep 1953	3	78.5	Jul 1999	-11	Jan 1961	22	19.8	Jan 1982	5522	824	.3	18.1	259.2	21.8	116.3	1.7

+ 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/normals/usnormals.html

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1948-2001

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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	4.14	3.69	3.00	1996	9	10.62	1979	.47	1981
Feb	2.99	2.68	2.71	1977	25	6.97	1981	.92	1987
Mar	4.28	4.20	3.62	1977	23	10.47	1983	1.15	1981
Apr	4.34	3.90	3.98	1984	5	11.54	1983	.83	1985
May	4.81	4.15	4.60	1968	29	10.84	1984	1.30	1993
Jun	4.45	3.84	5.33	1973	30	13.92	1972	.95	1988
Jul	4.59	4.35	4.41	1975	15	12.38	1975	.46	1999
Aug	4.34	4.25	9.97	1971	28	13.41	1971	.91	1995
Sep	5.30	3.90	12.79	1999	17	17.85	1999	.93	1980
Oct	3.92	4.05	4.59	1996	20	7.95	1996	.54	2000
Nov	4.43	3.94	4.07	1977	8	11.08	1977	.36	1976
Dec	3.91	3.23	3.64	1983	13	10.77	1983	.62	1980
Ann	51.50	49.35	12.79	Sep 1999	17	17.85	Sep 1999	.36	Nov 1976

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.4	6.7	2.8	1.2
Feb	8.6	6.0	1.9	.6
Mar	10.2	6.5	3.1	1.4
Apr	11.2	7.1	2.9	1.3
May	12.7	7.6	3.2	1.2
Jun	11.8	7.3	2.8	1.2
Jul	10.2	6.9	2.9	1.3
Aug	10.3	6.5	2.7	1.3
Sep	9.9	6.3	3.3	1.7
Oct	9.2	5.6	2.5	1.1
Nov	9.6	6.1	3.0	1.5
Dec	10.8	6.6	2.8	1.1
Ann	124.9	79.2	33.9	14.9

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	.98	1.37	1.97	2.51	3.05	3.62	4.26	5.02	6.01	7.59	9.08
Feb	1.06	1.34	1.75	2.09	2.42	2.76	3.13	3.55	4.10	4.94	5.72
Mar	1.49	1.90	2.49	2.98	3.45	3.94	4.47	5.09	5.88	7.11	8.23
Apr	1.30	1.71	2.33	2.87	3.38	3.92	4.51	5.21	6.11	7.52	8.83
May	1.51	1.97	2.65	3.23	3.79	4.37	5.00	5.75	6.71	8.21	9.60
Jun	1.34	1.76	2.40	2.94	3.47	4.02	4.63	5.34	6.26	7.70	9.04
Jul	1.03	1.45	2.13	2.73	3.34	3.98	4.70	5.57	6.70	8.51	10.22
Aug	1.06	1.47	2.10	2.66	3.22	3.81	4.47	5.25	6.27	7.89	9.41
Sep	1.20	1.69	2.47	3.17	3.86	4.61	5.44	6.43	7.74	9.82	11.78
Oct	.90	1.27	1.84	2.36	2.87	3.42	4.03	4.76	5.71	7.23	8.67
Nov	1.04	1.45	2.10	2.68	3.25	3.86	4.55	5.36	6.43	8.13	9.73
Dec	.82	1.18	1.75	2.27	2.80	3.36	3.99	4.75	5.76	7.36	8.88
Ann	36.62	39.50	43.19	45.99	48.48	50.88	53.37	56.11	59.44	64.27	68.44

\+ 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: 1948-2001
(3) Derived from 1971-2000 serially complete daily data

Complete documentation available from:
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Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	8.4	7.3	1	#
Feb	7.7	7.1	1	0
Mar	3.6	.9	#	0
Apr	.1	.0	#	0
May	.0	.0	0	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	.0	.0	0	0
Nov	.0	.0	#	0
Dec	1.6	.6	#	0
Ann	21.4	15.9	N/A	N/A

Extremes (2)

Month	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year
Jan	10.0	1978	20	18.6	1978	14	1978	21	4	1978
Feb	11.0	1978	7	17.0	1972	17	1978	8	10	1978
Mar	14.0	1971	4	14.3	1971	15	1971	5	4	1978
Apr	.5	1971	7	.5+	1974	3	1990	7	#+	1990
May	.0	0	0	.0	0	0	0	0	0	0
Jun	.0	0	0	.0	0	0	0	0	0	0
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	.0	0	0	.0	0	0	0	0	0	0
Oct	.0	0	0	.0	0	0	0	0	0	0
Nov	.4	1971	25	.4	1971	3	1989	23	#+	1989
Dec	4.0	1973	17	5.2	1976	7	1990	28	2	1989
Ann	14.0	Mar 1971	4	18.6	Jan 1978	17	Feb 1978	8	10	Feb 1978

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	2.7	1.9	.9	.2	.1
Feb	3.1	1.7	.8	.4	.1
Mar	1.1	.7	.4	.1	.1
Apr	.1	.0	.0	.0	.0
May	.0	.0	.0	.0	.0
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.0	.0	.0	.0	.0
Oct	.0	.0	.0	.0	.0
Nov	.1	.0	.0	.0	.0
Dec	.9	.4	.2	.0	.0
Ann	8.0	4.7	2.3	.7	.3

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	8.2	6.0	2.1	.5
Feb	6.4	4.2	2.6	1.1
Mar	1.4	.9	.8	.3
Apr	.1	.0	.0	.0
May	.0	.0	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.0	.0	.0	.0
Nov	.0	.0	.0	.0
Dec	1.0	.6	.1	.0
Ann	17.1	11.7	5.6	1.9

+ 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	5/15	5/11	5/08	5/05	5/03	4/30	4/28	4/25	4/21
32	4/29	4/25	4/22	4/20	4/18	4/16	4/13	4/10	4/07
28	4/16	4/12	4/10	4/08	4/06	4/04	4/02	3/31	3/27
24	4/05	4/01	3/29	3/27	3/25	3/23	3/21	3/18	3/14
20	3/30	3/25	3/21	3/18	3/16	3/13	3/10	3/06	3/01
16	3/21	3/14	3/10	3/06	3/03	2/27	2/23	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	9/26	10/01	10/04	10/07	10/09	10/12	10/15	10/18	10/22
32	10/06	10/11	10/14	10/17	10/20	10/22	10/25	10/29	11/02
28	10/21	10/26	10/30	11/02	11/04	11/07	11/10	11/13	11/18
24	11/02	11/07	11/11	11/15	11/18	11/21	11/25	11/29	12/04
20	11/17	11/22	11/26	11/29	12/02	12/05	12/08	12/12	12/18
16	11/29	12/05	12/10	12/13	12/17	12/20	12/24	12/28	1/03

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	177	171	166	162	159	155	151	147	140
32	202	196	191	188	184	181	177	173	167
28	228	222	218	215	212	208	205	201	196
24	256	250	245	241	237	234	230	225	218
20	283	276	270	265	261	256	252	246	238
16	314	305	299	293	288	283	278	271	262

***** 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	1128	956	781	443	166	18	0	1	61	368	635	965	5522
60	973	816	626	297	75	2	0	0	16	233	485	810	4333
57	880	732	533	216	40	0	0	0	6	164	397	717	3685
55	818	676	471	168	24	0	0	0	2	126	339	655	3279
50	666	536	327	73	5	0	0	0	0	55	207	509	2378
32	213	135	26	0	0	0	0	0	0	0	5	114	493

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	107	103	268	547	893	1133	1331	1273	992	659	359	172	7837
55	0	0	1	25	204	443	618	560	304	72	3	0	2230
57	0	0	0	13	158	383	556	498	247	49	1	0	1905
60	0	0	0	4	100	295	463	405	168	24	0	0	1459
65	0	0	0	0	36	161	308	251	63	5	0	0	824
70	0	0	0	0	8	63	162	116	11	0	0	0	360

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	20	32	115	324	656	904	1090	1035	767	426	178	38	20	52	167	491	1147	2051	3141	4176	4943	5369	5547	5585
45	2	7	59	200	502	754	935	880	617	282	94	11	2	9	68	268	770	1524	2459	3339	3956	4238	4332	4343
50	0	0	25	107	349	604	780	725	468	160	42	3	0	0	25	132	481	1085	1865	2590	3058	3218	3260	3263
55	0	0	7	50	211	455	625	570	322	70	13	0	0	0	7	57	268	723	1348	1918	2240	2310	2323	2323
60	0	0	3	19	110	308	470	415	192	24	3	0	0	0	3	22	132	440	910	1325	1517	1541	1544	1544
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	11	22	71	185	385	595	746	707	485	248	93	26	11	33	104	289	674	1269	2015	2722	3207	3455	3548	3574

(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