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: INDIAN MILLS 2 W, NJ **COOP ID: 284229**

Climate Division: NJ 2 **NWS Call Sign:** **Elevation: 100 Feet** **Lat: 39˚48N** **Lon: 74˚47W**

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	41.9	22.6	32.3	75+	1932	14	41.0	1998	-18	1984	22	21.8	1977	1016	0	.0	.0	7.3	6.4	25.9	.8
Feb	45.2	24.4	34.8	79	1930	25	41.7	1990	-25	1934	9	23.5	1978	845	0	.0	.0	9.5	4.1	22.1	.5
Mar	53.9	31.6	42.8	90+	1945	29	47.7	1977	-3	1984	10	37.2	1984	689	0	.0	@	19.5	.5	17.6	@
Apr	65.2	39.6	52.4	95+	1976	18	57.0	1994	15+	1964	2	47.2	1975	380	1	.0	.4	28.3	.0	8.2	.0
May	75.3	49.4	62.4	97+	1934	21	67.6	1991	23	1966	11	58.8+	1992	130	47	.0	1.8	30.9	.0	.9	.0
Jun	83.3	58.2	70.8	101	1952	26	74.3	1994	34	1945	1	67.6	1972	11	183	.1	5.4	30.0	.0	.0	.0
Jul	87.4	63.3	75.4	104+	1926	22	78.4	1999	40	1988	1	72.7	2000	0	322	.4	11.0	31.0	.0	.0	.0
Aug	85.6	61.8	73.7	102	2001	9	76.5	1980	36	1976	31	70.3	1992	0	269	.1	7.7	31.0	.0	.0	.0
Sep	78.9	54.8	66.9	100	1953	2	69.9	1980	27+	1951	30	63.9	1984	38	92	.0	2.0	30.0	.0	.2	.0
Oct	68.0	42.9	55.5	95	1941	5	62.1	1971	17	1969	24	49.7	1988	311	15	.0	@	30.7	.0	6.1	.0
Nov	57.1	34.9	46.0	86	1950	1	51.1	1985	0	1938	26	39.8	1976	570	0	.0	.0	22.6	.1	14.0	.0
Dec	46.3	27.0	36.7	76	1982	5	42.6	1984	-5	1963	31	24.6	1989	879	0	.0	.0	11.6	2.6	22.1	.1
Ann	65.7	42.5	54.1	104+	Jul 1926	22	78.4	Jul 1999	-25	Feb 1934	9	21.8	Jan 1977	4869	929	.6	28.3	282.4	13.7	117.1	1.4

\+ 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: 1926-2001

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

Issue Date: February 2004

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Climate Division: NJ 2 **NWS Call Sign:** **Elevation: 100 Feet** **Lat: 39°48N** **Lon: 74°47W**

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	4.05	3.44	2.96	1999	3	8.90	1979	.59	1981
Feb	3.00	2.95	2.00	1971	8	6.32	1979	.85	1980
Mar	4.38	4.03	2.72	2001	30	8.79	1983	1.74	1985
Apr	3.85	3.71	4.10	1986	16	8.76	1983	.90	1992
May	4.15	3.68	4.00	1939	22	8.10	1979	.56	1986
Jun	3.60	3.64	6.78	1938	27	7.20	1996	1.00	1988
Jul	4.36	4.00	4.94	1991	13	10.43	1991	.55	1983
Aug	5.12	4.94	6.63	1974	22	13.02	1990	1.17	1973
Sep	3.75	3.71	5.05	1960	12	7.69	2000	.97	1978
Oct	3.39	3.48	3.78	1973	29	6.69	1976	.53	1994
Nov	3.57	3.16	4.20	1950	25	9.56	1972	.48	1976
Dec	3.92	3.53	3.88	1992	11	7.58	1996	.94	1988
Ann	47.14	47.74	6.78	Jun 1938	27	13.02	Aug 1990	.48	Nov 1976

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.0	7.3	2.7	.9
Feb	8.6	5.7	2.2	.7
Mar	9.8	6.9	3.4	1.2
Apr	9.7	7.1	2.4	.9
May	10.4	7.9	2.8	1.0
Jun	8.2	6.0	2.6	1.0
Jul	9.0	6.8	2.8	1.2
Aug	8.3	6.6	3.2	1.5
Sep	8.1	5.6	2.5	.9
Oct	7.0	5.4	2.2	1.0
Nov	7.9	5.6	2.7	.9
Dec	8.8	6.7	2.7	1.0
Ann	105.8	77.6	32.2	12.2

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	1.30	1.68	2.25	2.74	3.20	3.69	4.22	4.84	5.64	6.89	8.04
Feb	1.07	1.35	1.76	2.11	2.43	2.77	3.14	3.56	4.11	4.95	5.72
Mar	1.63	2.04	2.63	3.12	3.58	4.06	4.58	5.18	5.94	7.11	8.19
Apr	1.24	1.61	2.15	2.61	3.05	3.51	4.02	4.60	5.36	6.54	7.63
May	1.34	1.73	2.31	2.81	3.29	3.78	4.32	4.95	5.77	7.04	8.21
Jun	1.19	1.53	2.03	2.46	2.87	3.29	3.75	4.29	4.99	6.06	7.06
Jul	1.21	1.62	2.25	2.80	3.34	3.90	4.52	5.26	6.21	7.71	9.11
Aug	1.16	1.63	2.38	3.06	3.73	4.45	5.25	6.21	7.48	9.48	11.38
Sep	1.21	1.56	2.09	2.54	2.97	3.42	3.91	4.48	5.22	6.38	7.44
Oct	1.07	1.39	1.87	2.28	2.67	3.08	3.53	4.06	4.74	5.81	6.79
Nov	.86	1.20	1.72	2.18	2.64	3.13	3.68	4.32	5.17	6.52	7.78
Dec	1.08	1.45	2.01	2.51	2.99	3.49	4.05	4.72	5.58	6.93	8.19
Ann	36.17	38.36	41.13	43.21	45.03	46.79	48.59	50.57	52.95	56.37	59.31

\+ 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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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	6.8	6.2	1	#	12.0	1996	7	17.8	1987	16	1996	9	4	1996	3.0	2.3	.8	.4	@	7.0	4.0	1.7	.3
Feb	5.9	1.0	1	#	15.0	1987	23	22.5	1987	16	1979	19	6	1979	2.1	1.2	.7	.3	.1	5.3	3.3	1.8	.2
Mar	2.1	.0	#	0	11.3	1984	9	13.1	1978	10	1984	9	2	1978	.8	.7	.2	.1	.1	1.0	.6	.2	@
Apr	.7	.0	#	0	7.0	1997	1	9.5	1997	1	1997	18	#+	1997	.2	.2	@	@	.0	@	.0	.0	.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	#	.0	#	0	#	1979	10	#+	1979	#	1979	10	#	1979	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.3	.0	#	0	5.0	1989	23	5.0	1989	5	1989	23	#+	1996	.1	.1	@	@	.0	.1	@	@	.0
Dec	2.3	1.0	#	#	6.5	1982	12	10.8	1989	7	2000	31	1+	2000	.9	.7	.2	.1	.0	1.5	.4	.2	.0
Ann	18.1	8.2	N/A	N/A	15.0	Feb 1987	23	22.5	Feb 1987	16+	Jan 1996	9	6	Feb 1979	7.1	5.2	1.9	.9	.2	14.9	8.3	3.9	.5

+ 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	5/23	5/20	5/17	5/14	5/11	5/09	5/05	5/01
32	5/17	5/13	5/10	5/07	5/05	5/02	4/30	4/27	4/23
28	5/02	4/28	4/25	4/22	4/20	4/17	4/15	4/12	4/08
24	4/19	4/14	4/11	4/08	4/05	4/02	3/30	3/26	3/21
20	4/05	3/31	3/27	3/23	3/20	3/17	3/14	3/10	3/04
16	3/26	3/20	3/16	3/13	3/09	3/06	3/03	2/27	2/21

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	9/18	9/21	9/23	9/26	9/28	10/01	10/04	10/08
32	9/27	10/01	10/04	10/06	10/08	10/10	10/13	10/15	10/19
28	10/09	10/14	10/17	10/20	10/23	10/26	10/29	11/02	11/07
24	10/20	10/25	10/28	11/01	11/04	11/07	11/10	11/14	11/19
20	10/28	11/04	11/09	11/14	11/18	11/22	11/27	12/02	12/09
16	11/16	11/23	11/27	12/01	12/05	12/08	12/12	12/16	12/23

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	151	145	141	137	134	131	127	123	117
32	174	168	163	159	156	152	148	143	137
28	206	199	194	190	186	182	177	172	165
24	232	225	220	216	212	208	204	199	193
20	267	259	252	247	242	237	232	226	217
16	292	284	279	274	270	265	260	255	247

***** 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)

Base — Heating Degree Days (1)

Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	1016	845	689	380	130	11	0	0	38	311	570	879	4869
60	861	705	534	238	52	1	0	0	9	190	422	724	3736
57	768	621	441	165	24	0	0	0	3	133	337	631	3123
55	706	565	384	123	13	0	0	0	1	101	284	573	2750
50	561	437	245	47	2	0	0	0	0	44	167	430	1933
32	149	95	12	0	0	0	0	0	0	0	3	78	337

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	157	173	347	612	940	1163	1345	1292	1044	728	423	222	8446
55	0	0	5	44	240	473	632	579	355	116	14	4	2462
57	0	0	1	26	190	413	570	517	297	85	8	0	2107
60	0	0	0	10	124	324	477	424	213	50	2	0	1624
65	0	0	0	1	47	183	322	269	92	15	0	0	929
70	0	0	0	0	11	75	173	129	21	3	0	0	412

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	47	65	159	371	684	920	1105	1050	805	481	219	78	47	112	271	642	1326	2246	3351	4401	5206	5687	5906	5984
45	21	29	82	238	529	770	950	895	655	336	129	40	21	50	132	370	899	1669	2619	3514	4169	4505	4634	4674
50	4	10	42	136	378	620	795	740	506	211	66	13	4	14	56	192	570	1190	1985	2725	3231	3442	3508	3521
55	0	0	18	66	238	470	640	585	359	115	30	2	0	0	18	84	322	792	1432	2017	2376	2491	2521	2523
60	0	0	4	29	131	327	485	430	228	51	9	0	0	0	4	33	164	491	976	1406	1634	1685	1694	1694
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	34	43	106	239	433	613	748	713	528	314	140	46	34	77	183	422	855	1468	2216	2929	3457	3771	3911	3957

(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