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 LAKE 2 SW, NY **COOP ID: 304102**

Climate Division: NY 3 **NWS Call Sign:** **Elevation: 1,660 Feet** **Lat: 43˚45N** **Lon: 74˚17W**

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	25.2	2.8	14.0	56	1950	5	26.3	1990	-39	1957	15	4.1	1982	1581	0	.0	.0	.5	22.8	30.5	13.8
Feb	28.1	4.1	16.1	57	2000	28	25.0	1984	-36	1979	18	5.1	1979	1371	0	.0	.0	.8	18.4	27.5	12.1
Mar	37.1	14.1	25.6	74	1986	31	32.8	2000	-30	1950	4	19.3	1984	1222	0	.0	.0	4.7	10.2	29.1	5.1
Apr	49.0	27.0	38.0	85	1990	29	43.7	1986	-3	1964	1	30.2	1975	810	0	.0	.0	13.4	1.4	22.3	.1
May	63.0	38.4	50.7	88+	1962	19	55.5	1998	15	1956	9	44.5	1997	446	2	.0	.0	27.9	@	8.7	.0
Jun	70.7	47.7	59.2	93	1953	22	62.2	1999	21	1964	6	55.6	1985	182	8	.0	@	29.9	.0	.8	.0
Jul	75.0	52.5	63.8	93	1977	21	67.5	1988	32+	1964	31	60.1	1992	84	44	.0	.1	31.0	.0	.0	.0
Aug	73.0	50.9	62.0	94	1975	2	65.8	1988	29	1976	31	58.5	1982	120	26	.0	.1	31.0	.0	.1	.0
Sep	64.8	43.0	53.9	91	1953	3	58.2	1999	18+	1963	25	50.4	1975	334	0	.0	.0	29.3	.0	3.2	.0
Oct	53.8	32.1	43.0	86	1951	6	49.4	1971	11	1948	22	36.4	1972	683	0	.0	.0	20.3	.2	16.5	.0
Nov	41.1	24.1	32.6	75	1950	2	38.1	1999	-13	1951	28	27.3	1972	973	0	.0	.0	6.6	5.9	24.8	.3
Dec	29.9	10.9	20.4	64+	2001	6	28.7	1998	-29+	1973	20	4.2	1989	1383	0	.0	.0	1.1	18.2	30.1	6.8
Ann	50.9	29.0	39.9	94	Aug 1975	2	67.5	Jul 1988	-39	Jan 1957	15	4.1	Jan 1982	9189	80	.0	.2	196.5	77.1	193.6	38.2

\+ 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

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

Issue Date: February 2004

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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	3.15	3.12	2.05	1959	22	6.43	1979	.28	1981
Feb	2.31	2.08	2.78	1954	17	6.12	1981	.36	1978
Mar	3.13	3.12	2.40	1994	4	5.65	1980	.51	1981
Apr	2.89	2.64	2.01	1968	25	6.12	2000	.60	1999
May	3.64	3.57	2.23	1969	20	6.74	1990	.73	1980
Jun	3.74	3.52	3.00	1987	23	8.96	1998	1.05	1995
Jul	3.59	3.60	2.42	2000	10	6.41	1986	.87	1983
Aug	3.91	3.65	3.05	1964	23	6.82	1979	.76	1999
Sep	4.17	3.58	3.72	1956	2	9.05	1975	1.93	1972
Oct	3.75	3.39	3.34	1988	22	9.48	1995	.48	1994
Nov	3.67	3.90	3.24	1959	28	6.15	1972	1.45	1981
Dec	2.82	2.42	2.76	1952	12	5.77	1973	.90	1989
Ann	40.77	39.95	3.72	Sep 1956	2	9.48	Oct 1995	.28	Jan 1981

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	13.8	7.1	2.2	.4
Feb	10.2	5.4	1.2	.3
Mar	12.5	6.8	2.2	.6
Apr	12.9	7.0	1.5	.5
May	14.0	8.0	2.4	.5
Jun	13.4	8.7	2.6	.6
Jul	12.5	7.4	2.3	.8
Aug	13.1	7.9	2.6	.8
Sep	13.4	7.5	2.9	.9
Oct	13.8	7.4	2.1	.8
Nov	14.0	7.3	2.2	.7
Dec	13.8	7.1	1.8	.4
Ann	157.4	87.6	26.0	7.3

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	.86	1.16	1.62	2.01	2.40	2.81	3.26	3.79	4.48	5.57	6.58
Feb	.67	.89	1.22	1.50	1.78	2.07	2.39	2.77	3.26	4.03	4.75
Mar	.99	1.28	1.72	2.10	2.47	2.84	3.26	3.74	4.37	5.34	6.24
Apr	1.15	1.42	1.80	2.11	2.40	2.71	3.03	3.41	3.88	4.61	5.28
May	1.37	1.71	2.19	2.60	2.98	3.38	3.80	4.30	4.93	5.90	6.78
Jun	1.14	1.50	2.03	2.48	2.92	3.38	3.89	4.48	5.25	6.45	7.56
Jul	1.37	1.71	2.18	2.58	2.96	3.34	3.76	4.24	4.86	5.80	6.67
Aug	1.60	1.96	2.46	2.88	3.27	3.67	4.10	4.59	5.22	6.17	7.04
Sep	1.84	2.22	2.73	3.16	3.55	3.95	4.37	4.86	5.48	6.41	7.26
Oct	1.14	1.50	2.03	2.48	2.93	3.39	3.90	4.49	5.26	6.46	7.58
Nov	1.74	2.06	2.50	2.85	3.18	3.50	3.85	4.25	4.75	5.50	6.18
Dec	.99	1.26	1.64	1.97	2.28	2.60	2.94	3.35	3.86	4.66	5.39
Ann	32.36	34.06	36.19	37.78	39.18	40.52	41.89	43.38	45.18	47.75	49.95

\+ 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

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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	6.6	-99.9	10	6
Feb	15.6	15.0	23	30
Mar	12.3	9.8	8	0
Apr	5.7	.8	2	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	.5	.0	#	0
Nov	5.9	3.5	#	0
Dec	8.0	-99.9	9	8
Ann	54.6	-9.9	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	7.0	1976	12	33.2	1982	37	1982	31	21+	1982
Feb	10.0	1973	15	27.1	2000	35+	1979	6	35	1979
Mar	11.0	1976	17	33.6	1976	33	1978	4	29	1978
Apr	9.0	1975	4	18.2	2000	36	1975	9	19	1975
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	2.0	1976	23	6.0	1976	2	1976	25	#+	2000
Nov	6.0	1972	15	21.8	1972	10	1972	29	3	1972
Dec	10.0	2000	31	40.0	1972	24	1995	26	20	1972
Ann	11.0	Mar 1976	17	40.0	Dec 1972	37	Jan 1982	31	35	Feb 1979

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	-9.9	-9.9	-9.9	-9.9	-9.9
Feb	-9.9	-9.9	-9.9	-9.9	-9.9
Mar	-9.9	-9.9	-9.9	-9.9	-9.9
Apr	1.9	1.3	.8	.3	.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	.5	.2	.0	.0	.0
Nov	-9.9	-9.9	-9.9	-9.9	-9.9
Dec	-9.9	-9.9	-9.9	-9.9	-9.9
Ann	-9.9	-9.9	-9.9	-9.9	-9.9

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	-9.9	-9.9	-9.9	-9.9
Feb	-9.9	-9.9	-9.9	-9.9
Mar	-9.9	-9.9	-9.9	-9.9
Apr	.5	.3	.2	.1
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	.2	.0	.0	.0
Nov	-9.9	-9.9	-9.9	-9.9
Dec	-9.9	-9.9	-9.9	-9.9
Ann	-9.9	-9.9	-9.9	-9.9

+ 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	7/01	6/25	6/21	6/17	6/14	6/10	6/07	6/03	5/28
32	6/15	6/10	6/07	6/04	6/01	5/30	5/27	5/23	5/18
28	5/29	5/24	5/21	5/18	5/15	5/12	5/09	5/06	5/01
24	5/13	5/09	5/06	5/03	5/01	4/29	4/26	4/23	4/19
20	4/26	4/22	4/19	4/16	4/14	4/11	4/09	4/06	4/01
16	4/20	4/16	4/13	4/11	4/08	4/06	4/04	4/01	3/28

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	8/16	8/22	8/27	8/31	9/04	9/07	9/12	9/16	9/23
32	9/06	9/10	9/13	9/15	9/17	9/20	9/22	9/25	9/29
28	9/19	9/24	9/28	10/01	10/04	10/06	10/09	10/13	10/18
24	10/01	10/06	10/10	10/14	10/17	10/20	10/23	10/27	11/02
20	10/13	10/19	10/23	10/26	10/29	11/01	11/05	11/09	11/14
16	10/26	11/01	11/05	11/09	11/12	11/16	11/20	11/24	11/30

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	108	99	92	86	81	76	70	64	55
32	126	120	115	111	107	104	100	95	88
28	160	153	149	145	141	137	133	129	122
24	187	180	176	172	168	165	161	156	150
20	219	212	206	202	198	193	189	183	176
16	242	233	227	222	217	212	207	201	193

***** 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	1581	1371	1222	810	446	182	84	120	334	683	973	1383	9189
60	1426	1231	1067	660	302	74	18	36	194	530	823	1228	7589
57	1333	1147	974	571	225	35	5	12	125	441	733	1135	6736
55	1271	1091	912	512	180	19	1	5	88	383	673	1073	6208
50	1116	951	757	372	92	2	0	0	30	251	523	918	5012
32	576	463	251	46	1	0	0	0	0	13	92	408	1850

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	18	17	52	226	580	817	984	929	657	353	109	48	4790
55	0	0	0	3	46	145	271	220	55	10	0	0	750
57	0	0	0	1	29	101	214	166	32	5	0	0	548
60	0	0	0	0	12	51	134	97	11	1	0	0	306
65	0	0	0	0	2	8	44	26	0	0	0	0	80
70	0	0	0	0	0	0	7	3	0	0	0	0	10

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	0	0	13	82	352	591	751	696	437	168	36	5	0	0	13	95	447	1038	1789	2485	2922	3090	3126	3131
45	0	0	5	39	222	442	596	541	299	85	13	0	0	0	5	44	266	708	1304	1845	2144	2229	2242	2242
50	0	0	0	13	122	295	441	387	177	33	1	0	0	0	0	13	135	430	871	1258	1435	1468	1469	1469
55	0	0	0	3	57	173	289	242	90	6	0	0	0	0	0	3	60	233	522	764	854	860	860	860
60	0	0	0	0	21	80	155	120	31	0	0	0	0	0	0	0	21	101	256	376	407	407	407	407
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	0	13	70	225	356	464	424	257	106	22	0	0	0	13	83	308	664	1128	1552	1809	1915	1937	1937

(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.
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