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: NEW YORK LA GUARDIA AP, NY **COOP ID: 305811**

Climate Division: NY 4 **NWS Call Sign: LGA** **Elevation: 11 Feet** **Lat: 40˚47N** **Lon: 73˚53W**

Temperature (˚F)

Month	Mean (1) Daily Max	Mean (1) Daily Min	Mean (1) Mean	Extremes Highest Daily(2)	Extremes Year	Extremes Day	Extremes Highest Month(1) Mean	Extremes Year	Extremes Lowest Daily(2)	Extremes Year	Extremes Day	Extremes Lowest Month(1) Mean	Extremes Year	Degree Days (1) Base Temp 65 Heating	Degree Days (1) Base Temp 65 Cooling	Mean Number of Days (3) Max >= 100	Max >= 90	Max >= 50	Max <= 32	Min <= 32	Min <= 0
Jan	38.6	26.5	32.6	72	1950	26	40.9	1990	-3+	1994	19	22.7	1977	1008	0	.0	.0	4.6	9.1	21.7	.2
Feb	41.2	28.3	34.8	74	1949	15	41.1	1976	-2	1963	8	23.4	1979	861	0	.0	.0	5.6	6.1	18.3	@
Mar	49.6	35.1	42.3	83+	1998	27	47.1	2000	8	1980	1	35.4	1984	713	1	.0	.0	14.3	1.0	9.9	.0
Apr	60.0	44.4	52.2	91	1976	18	55.9	1976	22+	1982	7	47.5	1975	392	6	.0	@	26.3	@	1.1	.0
May	70.6	54.3	62.4	97	1996	20	68.6	1991	38+	1983	17	58.9	1983	136	54	.0	.8	30.9	.0	.0	.0
Jun	79.3	63.7	71.5	101	1952	26	75.1	1994	46	1972	11	66.1	1972	16	209	.0	3.1	30.0	.0	.0	.0
Jul	84.7	69.5	77.1	107	1966	3	81.9	1999	56+	1988	1	73.6	2000	1	377	.2	6.3	31.0	.0	.0	.0
Aug	83.1	68.7	75.9	104	2001	9	79.2	1988	51	1982	29	72.8	1982	1	336	.0	3.9	31.0	.0	.0	.0
Sep	75.6	61.6	68.6	102	1953	2	71.7	1998	42	1950	25	64.9	1975	40	141	.0	.9	30.0	.0	.0	.0
Oct	64.5	50.9	57.7	89	1949	10	62.8	1990	30	1969	24	52.6	1972	249	17	.0	.0	30.2	.0	@	.0
Nov	53.6	41.6	47.6	83+	1950	2	52.9	1975	17	1955	29	43.3	1976	524	1	.0	.0	19.4	.1	3.2	.0
Dec	43.7	32.0	37.9	75	1998	7	44.0	1998	-1	1980	25	25.7	1989	836	0	.0	.0	8.2	3.9	14.3	@
Ann	62.0	48.1	55.1	107	Jul 1966	3	81.9	Jul 1999	-3+	Jan 1994	19	22.7	Jan 1977	4777	1142	.2	15.0	261.5	20.2	68.5	.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

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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	3.56	3.45	3.13	1979	21	8.68	1979	.51	1981
Feb	2.75	2.83	2.19	1966	13	5.42	1981	.78	1987
Mar	3.93	3.73	3.15	1977	22	8.65	1980	1.11	1981
Apr	3.68	3.05	2.85	1983	10	11.51	1983	.99	1985
May	4.16	3.81	2.82	1978	14	9.27	1984	1.12	1987
Jun	3.57	3.00	4.00	1987	21	8.15	1972	.50	1999
Jul	4.41	4.40	3.53	1997	15	12.33	1975	.56	1999
Aug	4.09	4.07	6.40	1955	12	10.31	1990	.12	1995
Sep	3.77	3.52	4.63	1999	16	9.63	1975	1.16	1980
Oct	3.26	3.12	3.62	1996	19	7.32	1983	.64	2000
Nov	3.67	3.09	4.42	1972	8	9.92	1972	.31	1976
Dec	3.51	3.58	2.74	1992	11	7.70	1973	.61	1980
Ann	44.36	43.33	6.40	Aug 1955	12	12.33	Jul 1975	.12	Aug 1995

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.6	6.7	2.4	.7
Feb	9.6	5.7	1.7	.5
Mar	10.5	6.8	2.8	.9
Apr	10.6	6.5	2.4	1.0
May	11.1	7.2	3.0	1.0
Jun	10.1	6.1	2.4	.8
Jul	9.5	6.5	2.8	1.3
Aug	9.0	6.3	2.7	1.1
Sep	8.6	5.9	2.5	1.1
Oct	7.9	5.1	2.3	.8
Nov	9.0	5.8	2.5	.9
Dec	10.8	6.5	2.5	.9
Ann	117.3	75.1	30.0	11.0

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	1.03	1.37	1.88	2.32	2.75	3.20	3.70	4.28	5.04	6.23	7.33
Feb	.98	1.24	1.62	1.93	2.23	2.54	2.88	3.27	3.77	4.54	5.24
Mar	1.33	1.70	2.25	2.71	3.15	3.60	4.10	4.68	5.43	6.58	7.65
Apr	1.15	1.50	2.02	2.47	2.90	3.34	3.83	4.41	5.15	6.30	7.37
May	1.35	1.74	2.33	2.82	3.30	3.79	4.33	4.97	5.78	7.05	8.22
Jun	.82	1.15	1.67	2.14	2.61	3.11	3.67	4.33	5.21	6.60	7.91
Jul	.92	1.33	1.97	2.56	3.15	3.79	4.50	5.36	6.49	8.29	10.00
Aug	.63	.98	1.57	2.13	2.72	3.36	4.09	4.99	6.19	8.15	10.03
Sep	1.27	1.63	2.15	2.59	3.02	3.45	3.93	4.49	5.20	6.31	7.33
Oct	.86	1.17	1.64	2.06	2.47	2.89	3.37	3.94	4.67	5.84	6.92
Nov	.79	1.12	1.66	2.15	2.64	3.16	3.75	4.45	5.38	6.87	8.27
Dec	.77	1.09	1.61	2.07	2.54	3.04	3.59	4.26	5.14	6.55	7.87
Ann	32.92	35.17	38.04	40.20	42.10	43.94	45.83	47.92	50.43	54.06	57.19

+ 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	7.6	6.1	1	0
Feb	7.7	4.9	1	1
Mar	3.8	2.6	#	0
Apr	.4	.0	#	0
May	#	.0	#	0
Jun	.0	.0	#	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	#	.0	0	0
Nov	.4	.0	#	0
Dec	3.1	1.7	#	0
Ann	23.0	15.3	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	17.1	1996	7	27.6	1996	25+	1996	10	6	1996
Feb	17.0	1983	11	26.4	1983	22+	1983	13	6	1994
Mar	11.4	1993	13	15.4	1993	9	1993	14	1+	1994
Apr	8.2	1982	6	8.2	1982	8	1982	7	1	1982
May	#	1977	9	#	1977	0	0	0	#	2000
Jun	.0	0	0	.0	0	0	0	0	#	1996
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	#	2000	29	#+	2000	0	0	0	0	0
Nov	5.7	1989	23	6.1	1989	6+	1989	24	1	1989
Dec	13.3	2000	30	17.7	1995	15+	1995	22	3	1995
Ann	17.1	Jan 1996	7	27.6	Jan 1996	25+	Jan 1996	10	6+	Jan 1996

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	4.7	2.1	.7	.4	.1
Feb	3.7	1.8	.8	.5	.1
Mar	1.8	.9	.5	.2	@
Apr	.3	.1	@	@	.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	.3	.1	@	@	.0
Dec	2.3	.7	.3	.2	@
Ann	13.1	5.7	2.3	1.3	.2

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	7.8	3.3	1.7	.5
Feb	6.5	3.4	1.9	.7
Mar	2.4	1.1	.5	.0
Apr	.1	.1	.1	.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	.2	.1	.1	.0
Dec	1.8	.8	.5	.2
Ann	18.8	8.8	4.8	1.4

+ 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	4/20	4/17	4/14	4/12	4/10	4/08	4/06	4/04	3/31
32	4/12	4/08	4/05	4/03	4/01	3/29	3/27	3/24	3/20
28	4/03	3/30	3/26	3/24	3/21	3/19	3/16	3/13	3/09
24	3/27	3/22	3/18	3/15	3/12	3/09	3/06	3/02	2/25
20	3/20	3/14	3/10	3/06	3/02	2/27	2/23	2/19	2/12
16	3/11	3/04	2/26	2/21	2/17	2/12	2/08	2/02	1/25

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	10/21	10/27	10/31	11/03	11/06	11/10	11/13	11/17	11/22
32	11/06	11/10	11/14	11/17	11/20	11/23	11/26	11/29	12/04
28	11/16	11/21	11/24	11/28	11/30	12/03	12/07	12/10	12/15
24	11/24	11/30	12/04	12/07	12/10	12/14	12/17	12/21	12/27
20	12/04	12/10	12/14	12/17	12/21	12/24	12/28	1/01	1/07
16	12/11	12/18	12/23	12/27	1/01	1/05	1/09	1/14	1/21

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	230	223	218	214	210	205	201	196	189
32	252	245	240	236	233	229	225	220	213
28	272	266	261	257	254	250	246	241	235
24	296	288	282	277	273	268	263	258	250
20	316	308	302	297	293	288	283	277	269
16	345	335	328	322	317	311	305	299	289

***** 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	1008	861	713	392	136	16	1	1	40	249	524	836	4777
60	850	706	548	242	50	1	0	0	4	139	374	686	3600
57	757	622	455	166	23	0	0	0	1	90	289	593	2996
55	695	566	394	122	12	0	0	0	0	64	237	538	2628
50	550	434	254	44	1	0	0	0	0	21	126	395	1825
32	140	83	11	0	0	0	0	0	0	0	1	64	299

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	130	146	330	603	942	1184	1395	1356	1091	793	468	226	8664
55	0	1	9	53	241	494	682	643	402	135	24	3	2687
57	0	1	6	36	190	435	620	581	344	100	15	1	2329
60	0	0	3	18	125	346	527	488	260	58	8	1	1834
65	0	0	1	6	54	209	377	336	141	17	1	0	1142
70	0	0	0	2	20	101	224	190	60	4	0	0	601

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	38	52	146	374	707	954	1155	1116	859	554	259	80	38	90	236	610	1317	2271	3426	4542	5401	5955	6214	6294
45	11	22	74	236	552	804	1000	961	709	403	145	34	11	33	107	343	895	1699	2699	3660	4369	4772	4917	4951
50	0	4	33	127	398	654	845	806	559	259	68	9	0	4	37	164	562	1216	2061	2867	3426	3685	3753	3762
55	0	0	6	58	248	504	690	651	410	142	23	2	0	0	6	64	312	816	1506	2157	2567	2709	2732	2734
60	0	0	3	19	133	355	535	496	266	63	6	0	0	0	3	22	155	510	1045	1541	1807	1870	1876	1876
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	8	22	63	174	401	639	816	789	556	282	99	29	8	30	93	267	668	1307	2123	2912	3468	3750	3849	3878

(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