

# Climatography of the United States No. 20

National Climatic Data Center  
Federal Building  
151 Patton Avenue  
Asheville, North Carolina 28801  
www.ncdc.noaa.gov

Station: NEW YORK JFK INTL AP, NY

1971-2000

COOP ID: 305803

Climate Division: NY 4

NWS Call Sign: JFK

Elevation: 11 Feet

Lat: 40°38N

Lon: 73°46W

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	38.8	24.7	31.8	69	1950	26	39.6	1998	-2	1985	21	20.9	1977	1015	0	.0	.0	4.5	8.2	22.6	.2
Feb	40.9	26.1	33.5	71	1997	27	39.8	1998	0	1967	13	23.7	1979	869	0	.0	.0	5.5	5.5	19.2	.0
Mar	48.9	32.9	40.9	85	1990	13	46.4	1973	7	1967	19	34.9	1984	731	0	.0	.0	14.3	.9	10.8	.0
Apr	58.6	41.6	50.1	90	1977	12	53.5	1985	20+	1982	7	45.7	1975	433	2	.0	@	26.4	@	1.0	.0
May	68.3	51.2	59.7	99	1969	29	65.4	1991	34	1966	10	55.8	1973	182	31	.0	.4	30.9	.0	.0	.0
Jun	77.2	60.4	68.8	99	1949	26	72.5	1984	45	1967	1	65.5	1982	21	151	.0	1.7	30.0	.0	.0	.0
Jul	82.9	66.7	74.8	104	1966	3	78.7	1999	55	1979	6	71.7	1976	6	326	.2	4.4	31.0	.0	.0	.0
Aug	81.8	66.3	74.1	100	1983	20	77.1	1980	46	1965	31	71.5+	1994	4	300	@	2.7	31.0	.0	.0	.0
Sep	74.9	59.5	67.2	98	1983	10	71.2	1971	41	1979	20	63.5	1975	43	125	.0	.7	30.0	.0	.0	.0
Oct	64.3	48.7	56.5	88	1997	6	63.1	1971	30+	1976	28	51.9	1988	264	13	.0	.0	30.4	.0	.2	.0
Nov	53.8	39.8	46.8	77+	1993	15	52.3	1975	19+	1987	21	40.2	1976	532	1	.0	.0	20.7	.1	4.0	.0
Dec	44.0	30.5	37.2	75	1998	7	43.2	1984	2	1983	25	26.1	1989	847	0	.0	.0	8.6	3.6	15.8	.0
Ann	61.2	45.7	53.5	104	Jul 1966	3	78.7	Jul 1999	-2	Jan 1985	21	20.9	Jan 1977	4947	949	.2	9.9	263.3	18.3	73.6	.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](http://www.ncdc.noaa.gov/oa/climate/normals/usnormals.html)

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1949-2001

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

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**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	3.62	3.35	3.78	1999	3	8.33	1979	.49	1981	10.7	6.7	2.4	.8	.94	1.29	1.81	2.27	2.73	3.21	3.74	4.37	5.19	6.49	7.70	
Feb	2.70	2.63	2.46	1969	9	4.89	1972	1.01	1987	9.8	5.8	1.8	.6	1.09	1.34	1.69	1.98	2.25	2.53	2.83	3.18	3.62	4.29	4.91	
Mar	3.79	3.65	2.40	1977	22	8.17	1980	.95	1981	10.9	7.3	2.7	.8	1.47	1.82	2.32	2.73	3.13	3.53	3.96	4.47	5.10	6.09	6.98	
Apr	3.75	3.44	3.15	1980	9	9.51	1983	1.37	1992	10.6	6.4	2.4	1.0	1.44	1.79	2.29	2.70	3.10	3.49	3.93	4.43	5.07	6.04	6.94	
May	4.13	3.55	2.88	1968	29	10.71	1989	1.09	1986	11.4	7.2	2.9	1.0	1.52	1.91	2.47	2.93	3.38	3.83	4.32	4.90	5.63	6.75	7.78	
Jun	3.59	3.34	6.27	1984	30	9.20	1984	.95	1999	10.3	6.2	2.2	.9	.91	1.24	1.77	2.23	2.68	3.17	3.70	4.34	5.17	6.49	7.72	
Jul	3.92	3.50	3.51	1996	31	8.81	1996	.97	1998	9.3	6.3	2.6	1.2	1.20	1.57	2.13	2.61	3.07	3.55	4.08	4.70	5.51	6.76	7.92	
Aug	3.64	3.58	3.77	1976	8	8.30	1976	.22	1995	8.9	5.8	2.2	1.1	.59	.90	1.43	1.93	2.45	3.01	3.66	4.45	5.50	7.22	8.86	
Sep	3.50	3.16	4.49	1966	21	9.65	1975	1.15	1982	8.8	5.9	2.4	1.0	1.05	1.38	1.88	2.31	2.73	3.16	3.64	4.20	4.93	6.06	7.11	
Oct	3.03	3.14	3.21	1966	19	6.58	1989	.44	2000	7.9	5.1	2.2	.7	.85	1.14	1.58	1.96	2.33	2.71	3.14	3.65	4.31	5.34	6.30	
Nov	3.48	2.79	3.92	1972	8	9.51	1972	.32	1976	9.1	6.1	2.4	.9	.68	1.00	1.51	1.98	2.45	2.96	3.54	4.23	5.15	6.63	8.03	
Dec	3.31	2.99	2.55	1992	11	6.73	1986	.61	1989	11.0	6.2	2.4	.7	.78	1.09	1.57	2.01	2.44	2.89	3.40	4.01	4.81	6.08	7.27	
Ann	42.46	40.35	6.27	Jun 1984	30	10.71	May 1989	.22	Aug 1995	118.7	75.0	28.6	10.7	31.51	33.67	36.41	38.48	40.31	42.07	43.89	45.88	48.29	51.78	54.77	

+ 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: 1949-2001

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**Lat: 40°38N**

**Lon: 73°46W**

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	7.1	5.7	1	0	12.4	1996	7	30.3	1978	22	1996	9	5	1996	4.2	1.9	.8	.4	.1	6.1	2.9	1.6	.6
Feb	7.0	5.1	1	1	14.1	1983	11	24.7	1983	22	1983	12	6	1978	3.4	1.7	.7	.5	.1	5.6	3.0	1.8	.6
Mar	3.3	2.4	#	0	9.0	1993	13	11.7	1993	8+	1993	16	1+	1993	2.1	.9	.3	.2	.0	2.1	.8	.3	.0
Apr	.7	.0	#	0	8.0	1982	6	8.2	1982	8	1982	7	1	1982	.3	.2	.1	@	.0	.2	.1	.1	.0
May	.0	.0	#	0	.0	0	0	.0	0	0	0	0	#	2000	.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	0	#	2000	29	#+	2000	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.3	.0	#	0	3.2	1989	23	3.7	1989	4	1989	24	#	1995	.4	.1	@	.0	.0	.2	.1	.0	.0
Dec	2.6	1.1	#	0	10.3	2000	30	11.9	2000	11	2000	31	1+	2000	2.2	.7	.3	.1	@	1.8	.5	.2	@
Ann	21.0	14.3	N/A	N/A	14.1	Feb 1983	11	30.3	Jan 1978	22+	Jan 1996	9	6	Feb 1978	12.6	5.5	2.2	1.2	.2	16.0	7.4	4.0	1.2

+ 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	4/19	4/16	4/14	4/13	4/11	4/10	4/08	4/06	4/03
32	4/11	4/07	4/04	4/02	3/31	3/29	3/26	3/23	3/19
28	4/06	4/02	3/29	3/26	3/23	3/21	3/18	3/14	3/09
24	3/30	3/25	3/21	3/18	3/15	3/12	3/09	3/05	2/28
20	3/21	3/15	3/10	3/06	3/02	2/26	2/22	2/18	2/11
16	3/11	3/04	2/26	2/22	2/17	2/13	2/08	2/02	1/26
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	10/25	10/28	10/30	11/02	11/04	11/07	11/09	11/13
32	10/31	11/06	11/10	11/14	11/17	11/20	11/24	11/28	12/04
28	11/13	11/18	11/21	11/24	11/27	11/29	12/02	12/06	12/10
24	11/23	11/29	12/03	12/07	12/10	12/14	12/18	12/22	12/28
20	12/05	12/11	12/15	12/19	12/23	12/27	12/30	1/04	1/10
16	12/09	12/17	12/23	12/28	1/02	1/07	1/12	1/18	1/26
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	216	212	209	206	204	201	199	195	191
32	252	244	239	235	230	226	222	217	209
28	267	260	256	252	248	244	240	235	228
24	293	285	279	274	270	265	260	254	246
20	320	312	305	300	295	290	285	278	270
16	348	338	330	324	318	312	306	298	288

\* 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	1015	869	731	433	182	21	6	4	43	264	532	847	4947
60	875	742	591	298	79	3	0	0	6	160	396	706	3856
57	782	658	498	213	40	0	0	0	2	105	309	613	3220
55	720	602	436	161	22	0	0	0	1	76	255	556	2829
50	573	467	290	62	3	0	0	0	0	27	137	412	1971
32	153	93	14	0	0	0	0	0	0	0	1	70	331

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	124	135	316	570	888	1133	1354	1325	1071	771	458	221	8366
55	0	0	4	32	191	443	641	612	383	117	19	2	2444
57	0	0	2	19	144	383	579	550	324	84	11	1	2097
60	0	0	1	8	88	295	486	457	241	46	5	0	1627
65	0	0	0	2	31	151	326	300	125	13	1	0	949
70	0	0	0	0	9	64	184	161	50	1	0	0	469

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	35	43	129	342	650	900	1113	1086	839	533	246	76	35	78	207	549	1199	2099	3212	4298	5137	5670	5916	5992
45	5	11	55	203	495	750	958	931	689	382	135	28	5	16	71	274	769	1519	2477	3408	4097	4479	4614	4642
50	0	0	17	97	341	600	803	776	539	238	61	7	0	0	17	114	455	1055	1858	2634	3173	3411	3472	3479
55	0	0	4	32	198	450	648	621	389	123	18	1	0	0	4	36	234	684	1332	1953	2342	2465	2483	2484
60	0	0	0	7	92	304	493	466	248	52	5	0	0	0	0	7	99	403	896	1362	1610	1662	1667	1667
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	6	12	52	146	351	592	785	767	538	274	98	26	6	18	70	216	567	1159	1944	2711	3249	3523	3621	3647

(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.  
Complete documentation for the 1971-2000 Normals is available on the internet from:  
[www.ncdc.noaa.gov/oa/climate/normal/usnormals.html](http://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"><li>a. Temperature/ Precipitation Tables<ol style="list-style-type: none"><li>1. 1971-2000 Monthly Normals</li><li>2. Cooperative Summary of the Day</li><li>3. National Weather Service station records</li><li>4. 1971-2000 serially complete daily data</li></ol></li><li>b. Degree Day Table<ol style="list-style-type: none"><li>1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals</li><li>2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data</li></ol></li></ol> | <ol style="list-style-type: none"><li>c. Snow Tables<ol style="list-style-type: none"><li>1. Snow Climatology</li><li>2. Cooperative Summary of the Day</li></ol></li><li>d. Freeze Data Table<br/>1971-2000 serially complete daily data</li></ol> |
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## References

U.S. Climate Normals 1971-2000, [www.ncdc.noaa.gov/normal.html](http://www.ncdc.noaa.gov/normal.html)  
U.S. Climate Normals 1971-2000-Products Clim20, [www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html)  
Snow Climatology Project Description, [www.ncdc.noaa.gov/oa/climate/monitoring/snowclim/mainpage.html](http://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](http://www1.ncdc.noaa.gov/pub/data/special/serialcomplete_jam_0900.pdf)