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: DELHI 2 SE, NY **COOP ID: 302036**

Climate Division: NY 2 **NWS Call Sign:** **Elevation: 1,440 Feet** **Lat: 42˚15N** **Lon: 74˚54W**

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	30.9	10.8	20.9	68	1950	26	30.7	1990	-32	1994	21	11.8	1977	1369	0	.0	.0	1.9	17.3	29.5	7.2
Feb	33.8	12.1	23.0	66	1954	16	30.9	1998	-33	1934	9	11.9	1979	1178	0	.0	.0	2.8	13.3	26.5	5.9
Mar	42.6	21.7	32.2	83+	1998	31	38.6	1973	-20	1948	6	25.9	1984	1018	0	.0	.0	7.8	5.9	26.2	1.5
Apr	54.6	31.7	43.2	89	1990	29	47.9	1991	4	1943	16	36.9	1975	656	0	.0	.0	18.9	.5	17.4	.0
May	67.1	41.9	54.5	93	1944	7	59.3	1991	20+	1985	10	49.6	1997	332	5	.0	@	29.8	.0	5.9	.0
Jun	75.2	50.5	62.9	96	1933	29	66.1	1973	26	1984	1	58.2	1985	100	36	.0	.3	30.0	.0	.4	.0
Jul	79.6	54.4	67.0	101	1936	9	71.3	1988	33	1984	26	62.7	1984	41	103	.0	1.0	31.0	.0	.0	.0
Aug	78.2	53.3	65.8	98	1948	26	69.2	1973	28	1940	25	62.3	1982	46	70	.0	.3	31.0	.0	.1	.0
Sep	70.2	46.1	58.2	98+	1953	3	61.6	1971	19	1947	28	52.7	1984	213	6	.0	@	29.9	.0	2.5	.0
Oct	59.6	34.9	47.3	89	1927	2	54.9	1971	11+	1983	30	42.5	1992	551	0	.0	.0	25.4	.0	12.1	.0
Nov	46.7	28.2	37.5	79	1950	1	42.6	1975	-8	1938	26	32.7	1976	828	0	.0	.0	11.2	2.1	23.2	.1
Dec	35.4	17.6	26.5	69	1941	5	33.5	1984	-25	1989	24	10.9	1989	1193	0	.0	.0	2.2	9.8	28.9	2.6
Ann	56.2	33.6	44.9	101	Jul 1936	9	71.3	Jul 1988	-33	Feb 1934	9	10.9	Dec 1989	7525	220	.0	1.6	221.9	48.9	172.7	17.3

\+ 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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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	2.95	2.59	2.05	1996	20	6.20	1996	.72	1985
Feb	2.35	2.32	1.74	1926	4	4.94	1981	.37	1987
Mar	3.39	3.16	2.17	1986	15	5.86	1977	1.11	1981
Apr	3.90	3.89	2.20	1983	16	8.53	1983	1.80	1971
May	4.26	4.32	4.22	1942	23	8.60	1984	1.20	1993
Jun	4.47	4.61	2.91	1996	8	8.82	1998	.90	1988
Jul	3.86	3.54	8.52	1935	8	7.82	1996	1.53	1983
Aug	3.29	3.18	4.81	1955	19	6.16	1994	.85	1995
Sep	3.97	3.41	4.49	1999	17	9.78	1999	1.42	1982
Oct	3.70	3.39	5.71	1932	6	8.19	1995	.91	1994
Nov	3.87	3.98	4.20	1932	19	7.47	1972	1.31	1981
Dec	3.19	3.02	2.76	1952	11	6.73	1973	1.22	1989
Ann	43.20	42.65	8.52	Jul 1935	8	9.78	Sep 1999	.37	Feb 1987

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	15.2	7.0	2.0	.4
Feb	12.5	6.0	1.6	.1
Mar	14.0	7.3	1.9	.4
Apr	14.4	8.0	2.3	.7
May	14.9	9.2	3.0	.7
Jun	13.2	8.4	3.3	.8
Jul	11.3	7.1	2.7	1.0
Aug	11.9	7.3	2.7	.6
Sep	12.2	7.3	2.8	.8
Oct	12.8	7.1	2.2	.8
Nov	13.9	7.3	2.5	.8
Dec	15.6	7.2	2.1	.3
Ann	161.9	89.2	29.1	7.4

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	.80	1.08	1.50	1.88	2.24	2.63	3.05	3.56	4.22	5.24	6.21
Feb	.90	1.12	1.43	1.69	1.93	2.18	2.46	2.77	3.17	3.79	4.35
Mar	1.72	2.00	2.39	2.69	2.97	3.25	3.55	3.89	4.31	4.94	5.51
Apr	1.73	2.08	2.56	2.96	3.32	3.69	4.09	4.55	5.12	6.00	6.78
May	1.71	2.11	2.66	3.12	3.55	3.99	4.46	5.01	5.70	6.76	7.72
Jun	1.34	1.76	2.40	2.95	3.48	4.03	4.64	5.36	6.29	7.74	9.08
Jul	1.73	2.08	2.55	2.94	3.29	3.66	4.04	4.49	5.05	5.89	6.66
Aug	1.50	1.79	2.19	2.52	2.82	3.12	3.45	3.82	4.28	4.99	5.62
Sep	1.40	1.77	2.31	2.77	3.21	3.66	4.15	4.72	5.45	6.58	7.62
Oct	1.25	1.60	2.12	2.55	2.97	3.39	3.86	4.41	5.11	6.19	7.19
Nov	1.61	1.96	2.46	2.87	3.25	3.64	4.06	4.54	5.15	6.08	6.93
Dec	1.23	1.53	1.95	2.30	2.64	2.97	3.34	3.77	4.31	5.13	5.89
Ann	34.11	35.94	38.25	39.97	41.48	42.93	44.41	46.03	47.98	50.77	53.15

\+ 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

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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	17.1	14.0	5	3	18.5	1987	23	52.9	1987	25	1987	23	16	1994	9.4	5.3	1.6	.9	.2	21.8	16.2	10.3	3.3
Feb	10.9	11.0	5	4	10.0	1995	5	22.7	1993	23	2000	2	16	1994	7.3	4.0	1.4	.5	.1	20.3	15.6	11.6	6.8
Mar	11.9	10.1	2	1	15.0	1993	14	27.8	1993	28	1993	15	14	1993	6.1	3.2	1.1	.5	.1	11.3	7.2	4.8	2.7
Apr	4.3	2.0	#	#	13.0	1997	1	25.3	1983	17	1983	21	2	1983	1.8	1.0	.6	.3	.1	1.7	1.0	.5	.2
May	.0	.0	#	0	.1	1996	12	.1	1996	#	1997	7	#	1997	.1	.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	.4	.0	#	0	4.0	1987	4	4.0	1987	4	1987	4	#+	1993	.3	.1	.1	.0	.0	.1	.1	.0	.0
Nov	4.8	3.9	1	#	16.0	1971	25	20.5	1995	21	1971	25	3	1971	3.3	2.0	.5	.2	.1	2.9	.8	.2	.0
Dec	13.7	13.5	2	1	10.0	1997	30	28.9	1995	14	2000	31	7	1995	7.7	4.4	1.5	.4	.1	12.3	6.4	3.6	.3
Ann	63.1	54.5	N/A	N/A	18.5	Jan 1987	23	52.9	Jan 1987	28	Mar 1993	15	16+	Feb 1994	36.0	20.0	6.8	2.8	.7	70.4	47.3	31.0	13.3

+ Also occurred on an earlier date(s) #Denotes trace amounts

(1) Derived from Snow Climatology and 1971-2000 daily data

@ Denotes mean number of days greater than 0 but less than .05

(2) Derived from 1971-2000 daily data

-9/-9.9 represents missing values

Annual statistics for Mean/Median snow depths are not appropriate

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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	7/04	6/26	6/20	6/15	6/11	6/06	6/01	5/26	5/18
32	6/09	6/05	6/01	5/30	5/27	5/24	5/22	5/18	5/14
28	5/29	5/23	5/19	5/15	5/12	5/09	5/05	5/01	4/25
24	5/09	5/04	4/30	4/27	4/24	4/21	4/18	4/14	4/09
20	4/27	4/23	4/20	4/17	4/14	4/12	4/09	4/06	4/01
16	4/15	4/10	4/06	4/03	3/31	3/28	3/25	3/21	3/16

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	8/23	8/29	9/02	9/05	9/08	9/11	9/15	9/19	9/24
32	9/04	9/10	9/15	9/18	9/22	9/25	9/29	10/03	10/09
28	9/17	9/25	10/01	10/06	10/11	10/15	10/20	10/26	11/03
24	9/25	10/05	10/12	10/18	10/24	10/30	11/05	11/12	11/22
20	10/17	10/25	10/30	11/04	11/09	11/13	11/18	11/24	12/01
16	10/29	11/06	11/12	11/17	11/22	11/27	12/02	12/08	12/17

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	120	109	102	95	89	83	76	68	58
32	139	131	126	121	117	113	108	103	95
28	182	172	164	157	151	145	138	130	120
24	218	206	197	189	182	175	168	159	147
20	235	225	219	213	208	202	197	190	181
16	266	256	248	241	235	229	223	215	204

***** 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	1369	1178	1018	656	332	100	41	46	213	551	828	1193	7525
60	1214	1038	863	507	199	29	7	6	99	401	678	1038	6079
57	1121	954	770	419	135	10	0	1	54	316	588	945	5313
55	1059	898	708	362	100	4	0	0	34	263	528	883	4839
50	904	758	554	231	39	0	0	0	8	152	381	728	3755
32	385	296	118	8	0	0	0	0	0	3	37	260	1107

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	39	42	123	342	697	925	1085	1047	784	475	200	90	5849
55	0	0	0	6	83	239	372	334	128	23	0	0	1185
57	0	0	0	3	56	185	311	273	88	13	0	0	929
60	0	0	0	0	27	115	224	185	43	5	0	0	599
65	0	0	0	0	5	36	103	70	6	0	0	0	220
70	0	0	0	0	0	5	30	14	0	0	0	0	49

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	4	10	47	161	456	681	838	806	550	249	68	12	4	14	61	222	678	1359	2197	3003	3553	3802	3870	3882
45	0	0	21	88	309	531	683	651	401	139	32	2	0	0	21	109	418	949	1632	2283	2684	2823	2855	2857
50	0	0	7	47	188	388	528	496	267	63	10	0	0	0	7	54	242	630	1158	1654	1921	1984	1994	1994
55	0	0	3	20	98	246	374	345	150	23	2	0	0	0	3	23	121	367	741	1086	1236	1259	1261	1261
60	0	0	0	4	41	122	229	203	73	3	0	0	0	0	0	4	45	167	396	599	672	675	675	675
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	6	37	113	291	425	547	517	341	169	48	5	0	6	43	156	447	872	1419	1936	2277	2446	2494	2499

(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