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: DOBBS FERRY ARDSLEY, NY **COOP ID: 302129**

Climate Division: NY 4 **NWS Call Sign:** **Elevation: 200 Feet** **Lat: 41˚00N** **Lon: 73˚50W**

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	38.1	23.0	30.6	73	1950	26	38.2	1998	-10	1994	27	22.3	1977	1067	0	.0	.0	4.1	9.3	25.4	.6
Feb	41.4	24.5	33.0	75	1985	24	39.4	1976	-5+	1963	8	22.6	1979	898	0	.0	.0	6.0	5.8	22.3	.2
Mar	50.5	31.7	41.1	86	1998	31	46.0	1973	2	1967	19	35.3	1984	741	0	.0	.0	15.7	.8	16.6	.0
Apr	61.9	40.4	51.2	96	1976	18	55.2	1976	17	1982	7	47.4	1975	416	0	.0	.2	27.0	@	4.5	.0
May	72.5	50.3	61.4	97	1996	20	66.1	1991	29	1996	14	58.0	1990	153	39	.0	.8	30.9	.0	.1	.0
Jun	80.4	59.3	69.9	99	1952	26	73.1	1984	38	2001	1	66.8	1992	14	159	.0	3.1	30.0	.0	.0	.0
Jul	85.4	64.7	75.1	104	1980	21	78.1	1999	49+	2001	3	69.5	2000	0	311	.3	7.0	31.0	.0	.0	.0
Aug	83.4	63.6	73.5	102	1948	26	78.0	1980	44	1982	29	69.2	1992	2	265	.0	4.7	31.0	.0	.0	.0
Sep	75.8	56.3	66.1	101	1953	2	70.3	1980	34	1991	30	63.1	1975	51	83	.0	.9	30.0	.0	.0	.0
Oct	64.7	45.3	55.0	89	1949	10	60.8	1971	27+	2001	29	51.7+	1992	318	8	.0	.0	30.2	.0	1.8	.0
Nov	53.6	37.1	45.4	82	1950	1	50.9	1975	12	1989	24	40.5	1996	590	0	.0	.0	20.1	.2	9.2	.0
Dec	42.8	28.1	35.5	77	1998	7	41.3	1984	-4	1980	25	22.7	1989	916	0	.0	.0	7.1	4.1	20.9	.1
Ann	62.5	43.7	53.2	104	Jul 1980	21	78.1	Jul 1999	-10	Jan 1994	27	22.3	Jan 1977	5166	865	.3	16.7	263.1	20.2	100.8	.9

+ 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	4.39	4.37	3.75	1979	21	12.28	1979	.71	1981
Feb	3.35	2.91	3.20	1973	2	7.54	1981	.86	1987
Mar	4.54	4.16	4.28	1953	13	10.43	1983	1.13	1981
Apr	4.50	3.91	5.34	1984	5	11.94	1983	1.01	1985
May	4.87	4.26	5.44	1968	29	11.70	1989	.62	1993
Jun	3.88	4.00	5.69	1972	19	15.49	1972	1.18	1971
Jul	4.57	4.43	3.22	1984	7	10.00	1984	.52	1999
Aug	4.38	4.59	4.77	1955	13	10.33	1990	.87	1981
Sep	4.77	4.14	7.62	1999	16	14.23	1999	1.46	1998
Oct	4.11	3.93	4.31	1955	15	9.00	1995	.55	2000
Nov	4.52	3.94	5.25	1977	8	9.86	1972	.50	1976
Dec	4.27	4.19	3.21	1973	21	11.13	1983	.90	1989
Ann	52.15	49.82	7.62	Sep 1999	16	15.49	Jun 1972	.50	Nov 1976

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	11.4	7.3	3.0	1.3
Feb	9.8	6.1	2.2	1.0
Mar	11.7	7.2	3.1	1.1
Apr	12.1	7.7	2.9	1.1
May	12.4	8.0	3.3	1.5
Jun	11.6	7.0	2.6	1.1
Jul	10.7	7.0	2.8	1.5
Aug	10.0	6.4	2.7	1.3
Sep	9.4	6.4	3.1	1.4
Oct	8.7	5.9	2.7	1.2
Nov	10.4	6.3	3.2	1.4
Dec	11.9	7.5	2.8	1.3
Ann	130.1	82.8	34.4	15.2

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	1.21	1.63	2.26	2.82	3.36	3.92	4.55	5.29	6.26	7.77	9.18
Feb	1.20	1.51	1.97	2.35	2.72	3.09	3.50	3.98	4.59	5.52	6.38
Mar	1.60	2.02	2.64	3.17	3.67	4.18	4.74	5.39	6.22	7.51	8.70
Apr	1.48	1.90	2.53	3.06	3.58	4.11	4.69	5.36	6.24	7.59	8.84
May	1.25	1.71	2.42	3.04	3.66	4.30	5.02	5.88	6.99	8.75	10.40
Jun	1.05	1.41	1.97	2.46	2.95	3.45	4.01	4.67	5.54	6.89	8.16
Jul	1.19	1.62	2.28	2.87	3.44	4.05	4.72	5.52	6.56	8.20	9.74
Aug	.97	1.38	2.02	2.60	3.18	3.79	4.48	5.31	6.40	8.13	9.77
Sep	1.30	1.75	2.44	3.04	3.63	4.25	4.94	5.75	6.80	8.46	10.00
Oct	.92	1.30	1.90	2.44	2.99	3.56	4.21	4.99	6.01	7.64	9.17
Nov	1.37	1.80	2.45	3.00	3.53	4.09	4.70	5.42	6.34	7.79	9.14
Dec	1.02	1.42	2.05	2.60	3.15	3.74	4.39	5.17	6.18	7.80	9.31
Ann	38.02	40.78	44.29	46.95	49.31	51.59	53.93	56.51	59.64	64.16	68.06

\+ 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	10.1	9.9	3	1
Feb	8.9	6.7	2	1
Mar	5.2	3.7	1	#
Apr	.9	.0	#	0
May	#	.0	0	0
Jun	.0	.0	#	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	.1	.0	#	0
Nov	.8	.0	#	0
Dec	4.3	4.0	1	#
Ann	30.3	24.3	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	13.7	1978	20	27.4	1996	26	1996	8	12	1996
Feb	16.2	1983	12	23.6	1972	20	1983	12	10	1994
Mar	10.3	1993	13	17.0	1996	17	1994	3	6	1994
Apr	9.7	1982	6	9.7	1982	10	1982	6	1	1982
May	#	1977	9	#	1977	0	0	0	0	0
Jun	.0	0	0	.0	0	#	1976	29	#	1976
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	2000	29	2.0	2000	2	2000	29	#+	2000
Nov	5.3	1989	23	5.3	1989	4	1989	23	#+	1997
Dec	14.0	2000	30	16.5	1995	14	2000	30	5	1995
Ann	16.2	Feb 1983	12	27.4	Jan 1996	26	Jan 1996	8	12	Jan 1996

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	5.9	3.1	1.0	.3	.1
Feb	4.8	2.7	1.0	.4	.1
Mar	3.2	1.5	.7	.3	@
Apr	.4	.3	.1	.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	.1	@	.0	.0	.0
Nov	.8	.2	.1	@	.0
Dec	3.5	1.6	.5	.2	@
Ann	18.7	9.4	3.4	1.3	.2

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	12.9	8.7	5.3	1.0
Feb	12.3	7.9	5.0	1.2
Mar	3.5	1.9	1.1	.3
Apr	.2	.1	.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	@	.0	.0	.0
Nov	.5	.2	.0	.0
Dec	5.0	1.9	.8	.1
Ann	34.4	20.7	12.3	2.6

+ 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	5/14	5/09	5/05	5/02	4/29	4/26	4/22	4/19	4/13
32	5/02	4/27	4/24	4/20	4/18	4/15	4/12	4/08	4/03
28	4/17	4/12	4/09	4/06	4/03	4/01	3/29	3/25	3/21
24	4/06	4/01	3/29	3/26	3/24	3/21	3/19	3/15	3/11
20	3/28	3/23	3/20	3/17	3/14	3/11	3/08	3/04	2/27
16	3/18	3/12	3/07	3/03	2/28	2/24	2/21	2/16	2/10

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	9/27	10/02	10/06	10/09	10/12	10/15	10/18	10/22	10/27
32	10/10	10/15	10/19	10/22	10/25	10/28	10/31	11/03	11/08
28	10/26	10/31	11/04	11/08	11/11	11/14	11/18	11/22	11/27
24	11/09	11/15	11/19	11/22	11/25	11/29	12/02	12/06	12/12
20	11/17	11/23	11/28	12/02	12/05	12/09	12/13	12/18	12/24
16	11/30	12/06	12/10	12/14	12/17	12/20	12/24	12/28	1/03

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	190	181	175	170	165	161	155	149	141
32	213	205	199	194	189	185	180	174	165
28	244	236	231	226	221	217	212	206	198
24	268	261	255	250	246	241	237	231	223
20	291	282	276	271	266	261	256	249	241
16	317	308	302	296	291	286	281	275	266

***** 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	1067	898	741	416	153	14	0	2	51	318	590	916	5166
60	912	758	586	270	66	1	0	0	12	190	440	761	3996
57	819	674	493	191	33	0	0	0	4	128	353	668	3363
55	757	618	432	144	19	0	0	0	2	94	298	607	2971
50	604	482	290	56	3	0	0	0	0	36	175	463	2109
32	164	106	18	0	0	0	0	0	0	0	4	89	381

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	120	132	300	575	910	1135	1334	1286	1021	712	404	196	8125
55	0	0	1	28	216	445	621	573	333	93	9	1	2320
57	0	0	0	15	168	386	559	511	275	65	3	0	1982
60	0	0	0	5	108	297	466	418	193	34	1	0	1522
65	0	0	0	0	39	159	311	265	83	8	0	0	865
70	0	0	0	0	9	58	168	131	21	1	0	0	388

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	29	41	129	347	674	906	1096	1049	789	475	204	55	29	70	199	546	1220	2126	3222	4271	5060	5535	5739	5794
45	5	13	67	213	519	756	941	894	639	326	115	20	5	18	85	298	817	1573	2514	3408	4047	4373	4488	4508
50	0	3	29	117	365	606	786	739	489	193	51	3	0	3	32	149	514	1120	1906	2645	3134	3327	3378	3381
55	0	0	6	52	225	456	631	584	344	101	16	1	0	0	6	58	283	739	1370	1954	2298	2399	2415	2416
60	0	0	4	18	117	308	476	430	212	37	4	0	0	0	4	22	139	447	923	1353	1565	1602	1606	1606
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	12	20	75	197	402	596	755	719	503	266	99	24	12	32	107	304	706	1302	2057	2776	3279	3545	3644	3668

(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