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: RIVERHEAD RESEARCH FARM, NY **COOP ID: 307134**

Climate Division: NY 4 **NWS Call Sign:** **Elevation: 100 Feet** **Lat: 40˚58N** **Lon: 72˚43W**

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	39.4	24.4	31.9	68	1995	14	39.1	1998	-8	1982	18	23.7	1981	1027	0	.0	.0	5.1	7.4	24.9	.2
Feb	40.7	25.7	33.2	68	1976	25	39.3	1998	-2	1963	8	23.7	1979	891	0	.0	.0	5.3	5.7	21.6	@
Mar	48.8	32.3	40.6	80+	1998	27	44.9	2000	8	1967	19	35.1	1984	759	0	.0	.0	13.6	.8	16.5	.0
Apr	59.3	40.0	49.7	92	1976	18	53.3	1991	18	1982	7	45.3	1972	460	0	.0	.1	26.6	@	3.4	.0
May	70.6	49.8	60.2	96+	1996	21	65.6	1991	32+	1996	14	57.5	1971	170	22	.0	.6	30.9	.0	@	.0
Jun	79.3	59.1	69.2	98+	1956	14	72.5	1999	40+	1978	15	64.7	1982	22	148	.0	2.4	30.0	.0	.0	.0
Jul	84.2	64.8	74.5	100+	1999	6	79.1	1999	47	1988	1	70.8	1976	1	295	.1	4.8	31.0	.0	.0	.0
Aug	82.5	64.0	73.3	99	2001	9	76.7	1988	45	1986	30	69.9	1982	0	256	.0	2.5	31.0	.0	.0	.0
Sep	75.4	57.6	66.5	98	1953	2	70.1	1998	37+	1989	28	62.6	1984	41	86	.0	.5	30.0	.0	.0	.0
Oct	64.7	47.0	55.9	88	1949	10	61.9	1990	24	1966	31	52.1	1988	290	7	.0	.0	30.6	.0	.6	.0
Nov	54.0	38.7	46.4	80	1950	2	50.7	1975	17+	1993	26	41.3	1976	560	0	.0	.0	20.5	@	6.9	.0
Dec	44.3	29.7	37.0	76	1998	7	42.5	1990	-1	1963	31	26.5	1989	868	0	.0	.0	8.4	3.1	19.4	@
Ann	61.9	44.4	53.2	100+	Jul 1999	6	79.1	Jul 1999	-8	Jan 1982	18	23.7+	Jan 1981	5089	814	.1	10.9	263.0	17.0	93.3	.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	4.40	4.11	3.60	1979	21	12.40	1979	.80	1981
Feb	3.43	3.21	2.40	1961	4	6.34	1984	.83	1980
Mar	4.21	4.19	3.06	1998	9	7.92	1983	.98	1981
Apr	4.23	4.09	2.48	2000	22	11.43	1983	1.83	1985
May	3.81	3.57	2.78	2001	25	8.27	1984	.65	1993
Jun	3.70	2.92	5.27	1982	5	11.63	1982	.19	1994
Jul	3.21	2.85	4.89	1959	11	7.63	1984	.60	1974
Aug	4.07	3.81	6.34	1989	11	9.36	1991	.41	1984
Sep	3.65	3.62	6.46	1954	11	7.61	1993	1.07	1971
Oct	3.82	3.73	3.96	1972	7	9.12	1996	.46	2000
Nov	4.23	3.85	3.40	1951	3	9.42	1988	.48	1976
Dec	4.06	4.01	3.02	1969	26	7.79	1996	.91	1980
Ann	46.82	45.43	6.46	Sep 1954	11	12.40	Jan 1979	.19	Jun 1994

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.0	7.1	2.9	1.1
Feb	8.6	5.9	2.4	.9
Mar	10.7	7.0	3.0	1.3
Apr	10.7	6.9	2.8	1.2
May	11.2	7.3	2.8	.8
Jun	9.1	5.7	2.3	.8
Jul	8.3	5.3	2.3	.8
Aug	8.2	6.0	2.3	1.3
Sep	8.4	5.5	2.5	1.3
Oct	8.3	5.7	2.7	1.2
Nov	9.6	6.9	3.2	1.3
Dec	10.3	7.3	2.6	1.2
Ann	113.4	76.6	31.8	13.2

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	1.08	1.50	2.14	2.71	3.27	3.87	4.53	5.32	6.36	8.00	9.53
Feb	1.23	1.55	2.01	2.41	2.78	3.16	3.58	4.07	4.69	5.65	6.52
Mar	1.60	1.99	2.55	3.02	3.46	3.92	4.41	4.97	5.70	6.81	7.83
Apr	1.50	1.90	2.48	2.96	3.43	3.90	4.42	5.02	5.79	6.98	8.07
May	1.23	1.59	2.12	2.58	3.01	3.47	3.97	4.55	5.30	6.46	7.54
Jun	.46	.75	1.27	1.79	2.33	2.94	3.64	4.52	5.70	7.64	9.53
Jul	.85	1.15	1.61	2.02	2.43	2.85	3.32	3.87	4.60	5.74	6.81
Aug	.64	.99	1.58	2.14	2.72	3.35	4.08	4.97	6.16	8.08	9.93
Sep	1.13	1.48	1.99	2.44	2.86	3.31	3.79	4.37	5.11	6.26	7.32
Oct	.96	1.32	1.88	2.37	2.86	3.37	3.94	4.62	5.51	6.92	8.24
Nov	1.17	1.57	2.18	2.71	3.23	3.78	4.38	5.09	6.02	7.47	8.82
Dec	1.06	1.45	2.03	2.55	3.06	3.60	4.19	4.90	5.82	7.27	8.63
Ann	34.53	36.94	40.01	42.33	44.38	46.35	48.38	50.62	53.33	57.24	60.60

\+ 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)

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	8.1	4.8	1	1	14.0	1996	8	22.0	1996	20	1996	9	5	1996	3.5	2.5	1.1	.5	.1	7.9	5.0	3.2	.3
Feb	8.3	6.0	1	#	16.0	1983	12	27.0	1978	25	1978	7	12	1978	3.0	2.2	1.0	.5	.2	7.2	4.6	3.0	1.2
Mar	3.9	2.0	#	#	10.5	1993	13	19.0	1993	14	1978	7	5	1978	1.8	1.4	.5	.2	@	2.3	1.3	.8	.4
Apr	.3	.0	#	0	6.0	1982	6	6.0	1982	6	1982	6	1	1982	.3	.2	.1	.1	.0	.2	.1	@	.0
May	#	.0	0	0	#	1977	9	#	1977	0	0	0	0	0	.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	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.6	.0	#	0	8.5	1989	23	8.5	1989	7	1989	24	#+	1995	.2	.1	.1	@	.0	.1	@	.0	.0
Dec	2.9	1.7	#	#	7.0	1990	28	13.2	1976	8	1995	20	2	1995	1.5	1.0	.4	.2	.0	2.0	1.0	.3	.0
Ann	24.1	14.5	N/A	N/A	16.0	Feb 1983	12	27.0	Feb 1978	25	Feb 1978	7	12	Feb 1978	10.3	7.4	3.2	1.5	.3	19.7	12.0	7.3	1.9

+ 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	5/08	5/04	5/01	4/28	4/26	4/23	4/21	4/18	4/13
32	4/28	4/23	4/20	4/16	4/13	4/10	4/07	4/03	3/29
28	4/12	4/08	4/05	4/02	3/30	3/28	3/25	3/22	3/17
24	4/03	3/28	3/24	3/20	3/17	3/13	3/10	3/05	2/27
20	3/25	3/20	3/16	3/13	3/10	3/07	3/03	2/27	2/22
16	3/15	3/08	3/04	2/28	2/24	2/21	2/17	2/12	2/06

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	10/07	10/11	10/14	10/17	10/19	10/22	10/24	10/27	10/31
32	10/18	10/23	10/26	10/29	11/01	11/03	11/06	11/09	11/14
28	11/06	11/10	11/14	11/17	11/19	11/22	11/25	11/29	12/03
24	11/18	11/23	11/26	11/29	12/02	12/05	12/08	12/12	12/16
20	11/29	12/04	12/07	12/10	12/13	12/15	12/18	12/22	12/26
16	12/07	12/13	12/18	12/21	12/25	12/29	1/01	1/06	1/12

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	194	188	183	179	176	172	168	163	157
32	220	214	209	205	201	197	193	188	181
28	251	245	241	237	233	230	226	222	216
24	282	275	269	264	260	255	250	245	237
20	299	291	286	281	277	273	268	263	256
16	328	319	313	308	303	298	293	287	278

***** 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	1027	891	759	460	170	22	1	0	41	290	560	868	5089
60	872	751	604	312	70	3	0	0	8	163	410	713	3906
57	779	667	511	227	34	0	0	0	2	104	323	620	3267
55	717	611	449	175	18	0	0	0	1	73	268	558	2870
50	566	472	301	74	2	0	0	0	0	23	147	415	2000
32	140	95	14	0	0	0	0	0	0	0	2	64	315

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	136	128	279	530	875	1116	1317	1278	1035	741	432	219	8086
55	0	0	0	15	181	426	604	565	346	101	8	1	2247
57	0	0	0	7	134	366	542	503	287	69	3	0	1911
60	0	0	0	2	78	279	449	410	203	36	1	0	1458
65	0	0	0	0	22	148	295	256	86	7	0	0	814
70	0	0	0	0	3	57	152	116	20	0	0	0	348

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	31	33	110	300	637	886	1080	1037	804	501	223	67	31	64	174	474	1111	1997	3077	4114	4918	5419	5642	5709
45	7	8	49	173	482	736	925	882	654	350	119	26	7	15	64	237	719	1455	2380	3262	3916	4266	4385	4411
50	0	0	14	77	329	586	770	727	504	213	54	4	0	0	14	91	420	1006	1776	2503	3007	3220	3274	3278
55	0	0	4	28	191	436	615	572	354	104	14	1	0	0	4	32	223	659	1274	1846	2200	2304	2318	2319
60	0	0	0	10	89	289	460	417	220	39	3	0	0	0	0	10	99	388	848	1265	1485	1524	1527	1527
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	16	17	55	154	363	578	747	716	508	266	98	28	16	33	88	242	605	1183	1930	2646	3154	3420	3518	3546

(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