

Climatography of the United States

No. 20

1971-2000

Station: PERU 2 WSW, NY

COOP ID: 306538

Climate Division: NY 7

NWS Call Sign:

Elevation: 510 Feet Lat: 44° 34N Lon: 73° 34W

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	28.0	8.3	18.2	64	1995	15	30.7	1990	-34+	1994	27	5.3	1994	1452	0	.0	.0	1.3	19.9	29.5	9.9
Feb	31.2	11.1	21.2	63	1981	22	32.1	1981	-30	1993	7	10.4	1979	1228	0	.0	.0	1.6	15.4	26.5	6.9
Mar	41.5	21.3	31.4	83	1998	31	39.1	1973	-17+	1989	7	22.7	1984	1042	0	.0	.0	7.2	6.8	26.3	1.7
Apr	54.7	33.1	43.9	90+	1990	27	48.8	1987	5+	1982	6	37.2	1972	634	0	.0	.1	19.5	.3	15.2	.0
May	68.8	44.3	56.6	93+	1987	31	62.3	1998	23+	1966	8	50.7	1974	275	13	.0	.4	30.4	.0	2.1	.0
Jun	77.0	53.6	65.3	98+	1995	19	70.4	1999	29	1986	3	61.5	1982	61	71	.0	1.2	30.0	.0	.1	.0
Jul	81.6	58.6	70.1	100+	1977	20	73.3	1975	40+	1992	2	66.4	1992	9	168	@	3.4	31.0	.0	.0	.0
Aug	78.9	56.0	67.5	100	1975	1	71.9	1973	34	1965	31	64.5	1997	35	112	@	1.5	31.0	.0	.0	.0
Sep	69.9	47.9	58.9	95	1961	12	64.2	1999	23	1951	30	56.2	1995	196	13	.0	.1	29.8	.0	.8	.0
Oct	58.2	37.4	47.8	86	1949	11	53.9	1995	16+	1974	28	43.2	1972	534	0	.0	.0	25.0	.0	10.2	.0
Nov	44.9	28.5	36.7	74	1975	8	44.2	1999	-3	1957	27	32.3	1980	850	0	.0	.0	9.3	3.0	20.1	.0
Dec	33.1	15.8	24.5	69	1998	7	32.5	1998	-26	1980	25	8.6	1989	1257	0	.0	.0	1.8	13.8	28.6	4.3
Ann	55.7	34.7	45.2	100+	Jul 1977	20	73.3	Jul 1975	-34+	Jan 1994	27	5.3	Jan 1994	7573	377	.0	6.7	217.9	59.2	159.4	22.8

+ 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

Issue Date: February 2004

(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

070-A

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: PERU 2 WSW, NY

COOP ID: 306538

Climate Division: NY 7

NWS Call Sign:

Elevation: 510 Feet Lat: 44°34N

Lon: 73°34W

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	1.65	1.37	1.35	1964	21	5.18	1978	.16	1980	7.4	4.8	1.0	.2	.27	.42	.66	.88	1.12	1.37	1.66	2.01	2.49	3.25	3.98
Feb	1.56	1.31	2.85	1954	17	4.15	1972	.20	1987	5.0	3.8	.8	.2	.30	.44	.67	.88	1.09	1.32	1.58	1.90	2.31	2.98	3.62
Mar	1.85	1.94	2.60	2001	6	3.41	1999	.23	1986	6.5	4.9	1.1	.2	.56	.73	.99	1.22	1.44	1.67	1.92	2.22	2.60	3.20	3.76
Apr	2.66	2.56	1.85+	1988	28	5.92	2000	.62	1986	8.1	6.4	1.7	.4	1.00	1.25	1.60	1.90	2.18	2.47	2.78	3.15	3.61	4.32	4.97
May	2.72	2.36	2.40	2000	9	5.80	1983	.63	1975	9.6	7.0	1.6	.3	.72	.98	1.37	1.72	2.06	2.42	2.81	3.28	3.90	4.86	5.76
Jun	3.34	2.96	5.70	1987	16	11.64	1998	.78	1979	9.5	7.2	2.2	.5	.66	.97	1.46	1.90	2.36	2.85	3.40	4.07	4.95	6.36	7.70
Jul	3.38	2.91	3.27	1998	1	8.61	1998	1.54	1985	9.2	7.2	2.5	.6	1.43	1.73	2.16	2.52	2.85	3.18	3.55	3.96	4.49	5.29	6.01
Aug	3.39	3.58	3.28	1995	5	5.69	1990	1.50	1973	9.5	7.2	2.4	.7	1.59	1.89	2.29	2.62	2.93	3.23	3.56	3.93	4.40	5.11	5.75
Sep	3.11	2.96	4.08	1999	17	7.03	1999	.72	1972	7.7	5.9	2.1	.6	1.12	1.41	1.83	2.19	2.52	2.87	3.25	3.69	4.25	5.12	5.91
Oct	2.71	2.48	2.52	1977	17	6.08	1995	.37	1994	8.1	5.8	1.8	.6	.70	.96	1.35	1.70	2.04	2.40	2.80	3.27	3.89	4.86	5.77
Nov	2.68	2.69	4.80	1996	9	6.36	1996	.68	1998	8.2	6.2	1.7	.5	.82	1.08	1.46	1.78	2.10	2.42	2.78	3.21	3.75	4.60	5.39
Dec	1.96	1.46	2.00	1952	12	5.25	1984	.31	1989	6.9	4.5	1.0	.5	.39	.57	.86	1.12	1.39	1.67	2.00	2.38	2.90	3.72	4.50
Ann	31.01	29.53	5.70	Jun 1987	16	11.64	Jun 1998	.16	Jan 1980	95.7	70.9	19.9	5.3	23.21	24.75	26.71	28.18	29.48	30.74	32.02	33.44	35.15	37.61	39.73

+ 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

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Station: PERU 2 WSW, NY

COOP ID: 306538

Climate Division: NY 7

NWS Call Sign:

Elevation: 510 Feet

Lat: 44°34N

Lon: 73°34W

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	12.4	10.0	8	8	14.0	1978	21	41.0	1978	35	1978	21	27	1971	4.1	3.9	1.8	.8	.2	-9.9	-9.9	-9.9	-9.9
Feb	11.0	11.0	9	6	15.0	1998	25	22.5	2000	32	1971	9	31	1971	2.9	2.8	1.6	.7	.2	-9.9	-9.9	-9.9	-9.9
Mar	10.5	10.0	2	0	16.0	1998	22	26.0	1997	20+	1982	7	18+	1982	2.9	2.7	1.2	.7	.2	-9.9	-9.9	-9.9	-9.9
Apr	4.2	2.0	1	0	12.0	2000	9	18.0	1975	16	1971	10	8	1972	1.0	1.0	.6	.4	@	1.5	1.0	.9	.4
May	.0	.0	0	0	.0	0	0	.0	0	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	.5	.0	0	0	4.0	1979	9	4.0	1979	0	0	0	0	0	.2	.2	.1	.0	.0	.0	.0	.0	.0
Nov	3.9	3.5	#	0	10.0	1993	1	15.0	1971	13	1971	30	6	1974	1.5	1.3	.6	.1	@	1.5	1.0	.2	.1
Dec	13.2	12.5	4	1	15.0	1978	25	33.0	1972	24	1972	30	12	1974	3.5	3.3	1.5	.6	.2	-9.9	-9.9	-9.9	-9.9
Ann	55.7	49.0	N/A	N/A	16.0	Mar 1998	22	41.0	Jan 1978	35	Jan 1978	21	31	Feb 1971	16.1	15.2	7.4	3.3	.8	-9.9	-9.9	-9.9	-9.9

+ 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

Complete documentation available from:

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NWS Call Sign:

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Lat: 44°34N

Lon: 73°34W

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	6/11	6/06	6/02	5/29	5/26	5/23	5/19	5/15	5/10
32	5/25	5/20	5/17	5/15	5/12	5/10	5/07	5/04	4/29
28	5/09	5/06	5/03	5/01	4/29	4/27	4/25	4/22	4/18
24	4/29	4/24	4/21	4/19	4/16	4/14	4/11	4/08	4/04
20	4/16	4/12	4/09	4/06	4/03	4/01	3/29	3/26	3/21
16	4/10	4/06	4/03	4/01	3/30	3/27	3/25	3/22	3/18
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	9/08	9/12	9/15	9/17	9/20	9/22	9/25	9/27	10/02
32	9/21	9/25	9/27	9/29	10/01	10/03	10/05	10/08	10/11
28	9/27	10/01	10/04	10/06	10/09	10/11	10/14	10/17	10/21
24	10/08	10/13	10/17	10/20	10/24	10/27	10/30	11/03	11/09
20	10/22	10/27	10/30	11/02	11/05	11/07	11/10	11/14	11/18
16	11/01	11/06	11/09	11/12	11/15	11/18	11/21	11/25	11/30
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	137	130	125	120	116	112	107	102	95
32	159	153	149	145	141	138	134	130	124
28	178	173	169	165	162	159	156	152	146
24	208	202	197	193	190	186	182	178	172
20	236	228	223	219	215	211	206	201	194
16	250	243	238	234	230	226	222	216	209

* 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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Elevation: 510 Feet Lat: 44° 34N Lon: 73° 34W

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	1452	1228	1042	634	275	61	9	35	196	534	850	1257	7573
60	1297	1088	887	485	156	15	0	5	90	384	700	1102	6209
57	1204	1004	794	398	101	5	0	1	49	299	610	1009	5474
55	1142	948	732	343	73	2	0	0	30	246	550	947	5013
50	987	808	579	218	26	0	0	0	6	136	402	792	3954
32	461	341	145	9	0	0	0	0	0	1	47	307	1311

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	32	38	126	365	761	1000	1182	1100	807	490	187	73	6161
55	0	0	0	9	121	312	469	387	147	22	0	0	1467
57	0	0	0	4	88	254	407	326	106	12	0	0	1197
60	0	0	0	1	49	175	314	237	57	4	0	0	837
65	0	0	0	0	13	71	168	112	13	0	0	0	377
70	0	0	0	0	2	16	61	35	1	0	0	0	115

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	3	5	41	172	520	768	944	857	573	271	76	7	3	8	49	221	741	1509	2453	3310	3883	4154	4230	4237
45	0	0	17	93	374	618	789	702	425	156	35	1	0	0	17	110	484	1102	1891	2593	3018	3174	3209	3210
50	0	0	4	44	234	469	634	547	285	79	10	0	0	0	4	48	282	751	1385	1932	2217	2296	2306	2306
55	0	0	2	20	131	323	479	393	163	33	3	0	0	0	2	22	153	476	955	1348	1511	1544	1547	1547
60	0	0	0	7	61	189	324	246	81	9	0	0	0	0	0	7	68	257	581	827	908	917	917	917
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	0	29	112	317	487	622	555	340	154	39	3	0	0	29	141	458	945	1567	2122	2462	2616	2655	2658

(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.
Complete documentation for the 1971-2000 Normals is available on the internet from:
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">a. Temperature/ Precipitation Tables<ol style="list-style-type: none">1. 1971-2000 Monthly Normals2. Cooperative Summary of the Day3. National Weather Service station records4. 1971-2000 serially complete daily datab. Degree Day Table<ol style="list-style-type: none">1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data | <ol style="list-style-type: none">c. Snow Tables<ol style="list-style-type: none">1. Snow Climatology2. Cooperative Summary of the Dayd. Freeze Data Table
1971-2000 serially complete daily data |
|---|---|

References

U.S. Climate Normals 1971-2000, www.ncdc.noaa.gov/normal.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normal/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