

Climatology of the United States

No. 20

1971-2000

Station: BURLINGTON, CT

COOP ID: 060973

Climate Division: CT 2

NWS Call Sign:

Elevation: 510 Feet

Lat: 41°48N

Lon: 72°56W

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	35.2	14.1	24.7	64+	1966	1	34.0	1990	-18	1984	22	15.2	1982	1251	0	.0	.0	2.6	12.7	29.6	3.6
Feb	37.7	16.1	26.9	70	1985	25	35.1	1998	-13	1971	1	17.1	1979	1067	0	.0	.0	3.2	9.2	26.5	2.0
Mar	46.6	24.9	35.8	83	1998	29	41.1	2000	-6	1967	19	29.2	1984	907	0	.0	.0	10.6	2.8	25.0	.2
Apr	58.1	35.3	46.7	93	1976	20	50.3	1994	13	1969	1	41.8	1975	549	0	.0	.1	23.4	.2	11.7	.0
May	69.6	45.7	57.7	95+	1962	20	63.0	1991	26	1966	11	54.4+	1974	240	12	.0	.5	30.6	.0	.6	.0
Jun	77.8	54.6	66.2	97	1966	28	70.8	1999	27	1972	11	61.7	1985	57	92	.0	1.6	30.0	.0	@	.0
Jul	82.7	59.7	71.2	100+	1991	21	75.3	1999	40+	1995	3	65.5	2000	8	200	.1	3.6	31.0	.0	.0	.0
Aug	80.6	58.1	69.4	98	1975	3	72.6	1988	35	1965	30	66.0	2000	17	152	.0	1.8	31.0	.0	.0	.0
Sep	72.9	50.2	61.6	95	1983	12	65.9	1999	24	1991	22	58.0	1975	130	26	.0	.5	30.0	.0	.4	.0
Oct	62.1	38.4	50.3	88	1963	8	56.3	1990	19	1988	31	46.2	1987	458	1	.0	.0	28.9	.0	8.1	.0
Nov	51.1	30.9	41.0	80	1982	3	45.9	1999	1	1987	22	36.7+	1976	720	0	.0	.0	15.9	.8	19.3	.0
Dec	39.9	21.0	30.5	75	1998	8	38.2	1998	-13	1980	26	18.3	1989	1071	0	.0	.0	5.1	7.5	27.9	.9
Ann	59.5	37.4	48.5	100+	Jul 1991	21	75.3	Jul 1999	-18	Jan 1984	22	15.2	Jan 1982	6475	483	.1	8.1	242.3	33.2	149.1	6.7

+ 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/normal/usnormals.html

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1937-2001

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

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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: BURLINGTON, CT

COOP ID: 060973

Climate Division: CT 2

NWS Call Sign:

Elevation: 510 Feet

Lat: 41°48N

Lon: 72°56W

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	4.30	4.12	3.39	1940	14	12.11	1979	.56	1981	10.2	6.9	2.9	1.3	.85	1.24	1.87	2.45	3.03	3.66	4.38	5.23	6.37	8.19	9.93
Feb	3.30	3.13	2.84	1981	21	10.26	1981	.38	1987	8.7	6.3	2.3	.8	.92	1.23	1.70	2.12	2.52	2.95	3.42	3.97	4.69	5.82	6.88
Mar	4.61	3.95	4.79	1980	22	10.85	1983	.50	1981	10.5	7.3	3.0	1.3	1.43	1.87	2.52	3.08	3.62	4.18	4.80	5.52	6.46	7.92	9.27
Apr	4.39	3.78	3.63	1945	26	11.48	1983	.66	1999	10.8	7.3	2.7	1.3	1.21	1.62	2.25	2.81	3.35	3.91	4.54	5.28	6.25	7.76	9.18
May	4.65	4.00	3.60	1984	30	12.58	1984	.71	1993	11.4	7.8	3.1	1.1	1.31	1.75	2.42	3.00	3.56	4.16	4.82	5.59	6.60	8.18	9.65
Jun	4.20	3.72	6.13	1982	6	12.80	1982	.19	1999	10.2	6.2	2.5	1.4	.50	.82	1.41	2.00	2.62	3.32	4.13	5.13	6.50	8.74	10.93
Jul	4.31	4.23	3.85	1998	1	8.40	1996	1.63	1983	9.7	6.8	2.8	1.0	1.69	2.09	2.66	3.13	3.57	4.02	4.51	5.08	5.80	6.90	7.90
Aug	4.67	4.13	12.77	1955	19	10.99	1990	.74	1981	9.7	7.1	2.7	1.1	1.19	1.63	2.31	2.91	3.50	4.12	4.82	5.64	6.71	8.40	9.99
Sep	4.80	3.84	7.77	1999	17	14.91	1999	.79	1986	9.2	6.4	2.9	1.5	.90	1.33	2.03	2.68	3.34	4.06	4.87	5.84	7.14	9.23	11.21
Oct	4.47	4.01	4.71	1996	20	11.67	1995	1.03	1978	8.3	5.9	2.8	1.4	1.03	1.44	2.10	2.68	3.27	3.89	4.58	5.41	6.51	8.24	9.87
Nov	4.58	4.50	4.40	1992	23	10.21	1988	.36	1976	9.5	6.2	3.2	1.5	1.42	1.86	2.50	3.06	3.59	4.15	4.76	5.48	6.41	7.85	9.19
Dec	3.99	3.85	4.20	1948	31	9.77	1973	.82	1980	10.2	6.6	2.8	1.2	1.05	1.43	2.01	2.52	3.02	3.54	4.12	4.82	5.72	7.14	8.46
Ann	52.27	49.42	12.77	Aug 1955	19	14.91	Sep 1999	.19	Jun 1999	118.4	80.8	33.7	14.9	39.74	42.23	45.38	47.74	49.83	51.83	53.89	56.15	58.87	62.79	66.15

+ 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: 1937-2001

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

Complete documentation available from:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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Station: BURLINGTON, CT

COOP ID: 060973

Climate Division: CT 2

NWS Call Sign:

Elevation: 510 Feet

Lat: 41°48N

Lon: 72°56W

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	9.8	9.6	1	0	15.0	1983	16	25.0	1978	13	1994	19	9	1994	2.2	1.8	1.0	.6	.1	-9.9	-9.9	-9.9	-9.9
Feb	8.5	5.1	2	0	20.0	1983	12	29.5	1983	18	1972	26	10	1994	2.2	1.7	.9	.4	.1	-9.9	-9.9	-9.9	-9.9
Mar	4.4	1.0	1	0	7.0	1984	29	23.5	1984	18	1994	4	6+	1994	1.6	1.4	.8	.4	.0	-9.9	-9.9	-9.9	-9.9
Apr	.6	.0	0	0	8.0	1971	7	8.0	1971	0	0	0	0	0	.3	.2	.1	.1	.0	.0	.0	.0	.0
May	.0	.0	0	0	.5	1977	9	.5	1977	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	.2	.0	0	0	3.5	1979	11	3.5	1979	0	0	0	0	0	@	@	@	.0	.0	.0	.0	.0	.0
Nov	1.0	.0	#	0	6.5	1980	18	7.0	1987	15	1971	26	1	1971	.3	.2	.1	.1	.0	.1	.0	.0	.0
Dec	3.3	4.0	1	0	7.0	1975	21	7.0	1974	14	1992	14	6	1978	1.9	1.4	.7	.1	.0	-9.9	-9.9	-9.9	-9.9
Ann	27.8	19.7	N/A	N/A	20.0	Feb 1983	12	29.5	Feb 1983	18+	Mar 1994	4	10	Feb 1994	8.5	6.7	3.6	1.7	.2	-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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No. 20 1971-2000

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Climate Division: CT 2

NWS Call Sign:

Elevation: 510 Feet

Lat: 41° 48N

Lon: 72° 56W

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	5/26	5/21	5/17	5/14	5/11	5/09	5/06	5/02	4/27
32	5/18	5/12	5/07	5/04	4/30	4/27	4/23	4/19	4/13
28	5/04	4/29	4/25	4/21	4/18	4/15	4/11	4/07	4/02
24	4/17	4/12	4/09	4/06	4/04	4/01	3/30	3/26	3/22
20	4/08	4/03	3/31	3/28	3/26	3/23	3/21	3/18	3/13
16	4/01	3/27	3/23	3/20	3/17	3/15	3/11	3/08	3/03
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	9/19	9/22	9/25	9/27	9/28	9/30	10/02	10/05	10/08
32	9/26	9/30	10/04	10/07	10/10	10/12	10/15	10/19	10/24
28	10/03	10/09	10/13	10/17	10/20	10/23	10/27	10/31	11/06
24	10/19	10/26	10/30	11/03	11/07	11/10	11/14	11/19	11/25
20	10/31	11/06	11/11	11/15	11/19	11/23	11/27	12/01	12/08
16	11/17	11/22	11/26	11/30	12/03	12/06	12/10	12/14	12/19
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	154	149	145	142	139	136	133	130	125
32	185	177	171	166	161	157	152	146	138
28	210	201	195	189	184	179	174	168	159
24	242	233	227	221	216	211	205	199	190
20	263	254	248	242	237	232	227	220	212
16	285	276	270	265	260	255	250	243	235

* 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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Climate Division: CT 2 NWS Call Sign: Elevation: 510 Feet Lat: 41°48N Lon: 72°56W

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	1251	1067	907	549	240	57	8	17	130	458	720	1071	6475
60	1096	927	752	400	123	14	0	1	47	311	570	916	5157
57	1003	843	659	313	72	4	0	0	21	231	480	823	4449
55	941	787	597	258	47	2	0	0	11	183	421	761	4008
50	786	647	443	141	11	0	0	0	1	90	280	608	3007
32	289	197	56	1	0	0	0	0	0	0	12	169	724

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	61	55	173	442	795	1025	1215	1158	886	566	282	121	6779
55	0	0	0	10	129	337	502	445	207	36	1	0	1667
57	0	0	0	4	92	279	440	383	157	22	0	0	1377
60	0	0	0	1	50	199	347	291	93	8	0	0	989
65	0	0	0	0	12	92	200	152	26	1	0	0	483
70	0	0	0	0	2	28	85	56	3	0	0	0	174

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	6	10	62	226	555	787	972	913	652	329	115	21	6	16	78	304	859	1646	2618	3531	4183	4512	4627	4648
45	0	1	25	121	403	637	817	758	502	198	55	4	0	1	26	147	550	1187	2004	2762	3264	3462	3517	3521
50	0	0	8	57	257	487	662	603	352	98	22	0	0	0	8	65	322	809	1471	2074	2426	2524	2546	2546
55	0	0	4	25	142	345	507	449	220	42	5	0	0	0	4	29	171	516	1023	1472	1692	1734	1739	1739
60	0	0	1	7	66	208	354	298	121	13	1	0	0	0	1	8	74	282	636	934	1055	1068	1069	1069
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	2	8	49	143	325	499	645	600	397	202	70	12	2	10	59	202	527	1026	1671	2271	2668	2870	2940	2952

(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