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: CHILLY BARTON FLAT, ID **COOP ID: 101671**

Climate Division: ID 8 **NWS Call Sign:** **Elevation: 6,260 Feet** **Lat: 43˚59N** **Lon: 113˚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	30.1	4.7	17.4	50+	1977	17	24.6	1981	-42	1949	25	5.0	1979	1476	0	.0	.0	.1	17.9	30.8	10.9
Feb	35.3	8.4	21.9	55+	1992	26	29.8	1991	-36	1956	1	12.7	1985	1208	0	.0	.0	1.3	9.7	28.3	6.9
Mar	42.9	18.4	30.7	67	1986	28	38.5	1992	-34	1960	1	24.6	1985	1065	0	.0	.0	6.0	2.5	30.3	.9
Apr	53.6	25.8	39.7	78	1992	29	45.4	1992	-2	1949	14	32.1	1975	759	0	.0	.0	18.9	.1	25.3	.0
May	62.8	32.9	47.9	87	1986	30	54.6	1992	11+	1954	2	43.0	1977	532	0	.0	.0	28.3	.0	14.7	.0
Jun	72.4	39.6	56.0	94+	1988	25	61.7	1988	20	1951	3	50.9	1998	280	11	.0	.5	29.6	.0	4.0	.0
Jul	81.2	44.8	63.0	96+	1960	21	67.5	1988	25	1981	8	55.4	1993	116	53	.0	2.0	31.0	.0	.4	.0
Aug	80.2	43.1	61.7	96	1958	15	65.2	2000	22	1963	26	57.2	1976	137	32	.0	1.4	31.0	.0	.9	.0
Sep	70.9	34.7	52.8	91	1988	3	57.6	1990	11+	1965	18	47.3	1986	369	3	.0	@	29.3	.0	10.4	.0
Oct	58.4	26.4	42.4	80+	1991	11	49.6	1988	-3	1971	29	37.0	1984	701	0	.0	.0	24.9	.3	25.1	@
Nov	39.9	15.5	27.7	67	1962	4	35.7	1999	-21	1985	23	20.1	1985	1121	0	.0	.0	5.1	6.4	29.0	2.6
Dec	30.5	5.7	18.1	55	1958	2	26.6	1980	-37	1990	22	8.2	1990	1455	0	.0	.0	.2	17.5	30.9	10.2
Ann	54.9	25.0	39.9	96+	Jul 1960	21	67.5	Jul 1988	-42	Jan 1949	25	5.0	Jan 1979	9219	99	.0	3.9	205.7	54.4	230.1	31.5

+ 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

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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	.31	.27	2.16	1965	6	1.06	1997	.01	1992
Feb	.27	.21	.44	1963	1	1.00	1986	.00	1977
Mar	.48	.33	1.03	1995	11	1.99	1995	.01	1978
Apr	.60	.59	.65	1955	26	1.35	1975	.01	1977
May	1.29	1.24	.95	1972	20	2.94	1977	.08	1974
Jun	1.26	1.19	1.45	1963	14	3.29	1993	.03	1974
Jul	.92	.69	1.08	1973	21	2.75	1984	.06	1988
Aug	.81	.85	1.08	1983	22	2.08	1983	.03	1975
Sep	.79	.58	1.24	1980	11	4.00	1980	.00	1987
Oct	.59	.38	.80	1949	1	1.93	2000	.00	1978
Nov	.44	.41	.85	1967	19	1.22	1973	.00	1976
Dec	.34	.27	.60+	2001	3	1.11	1996	.00	1989
Ann	8.10	7.91	2.16	Jan 1965	6	4.00	Sep 1980	.00+	Dec 1989

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	5.4	.9	@	.0
Feb	4.8	.8	.0	.0
Mar	6.2	1.5	@	@
Apr	6.8	2.3	.1	.0
May	10.0	4.3	.4	.0
Jun	8.6	3.6	.6	@
Jul	6.6	2.9	.3	@
Aug	6.8	2.6	.2	@
Sep	5.2	2.1	.3	.1
Oct	5.0	2.1	.1	.0
Nov	6.7	1.5	.0	.0
Dec	5.6	1.1	@	.0
Ann	77.7	25.7	2.0	.1

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	.05	.08	.13	.17	.21	.26	.31	.38	.47	.61	.75
Feb	.01	.04	.08	.12	.16	.21	.26	.33	.43	.58	.73
Mar	.03	.06	.12	.19	.26	.34	.45	.58	.76	1.06	1.37
Apr	.09	.14	.22	.31	.39	.49	.60	.74	.92	1.22	1.51
May	.17	.28	.46	.64	.83	1.04	1.28	1.58	1.98	2.64	3.27
Jun	.09	.17	.33	.50	.69	.91	1.18	1.52	2.00	2.80	3.60
Jul	.14	.22	.35	.48	.61	.75	.92	1.12	1.39	1.83	2.25
Aug	.09	.15	.27	.38	.50	.64	.79	.99	1.26	1.70	2.13
Sep	.00	.03	.10	.20	.32	.47	.67	.92	1.30	1.96	2.64
Oct	.03	.08	.17	.25	.35	.45	.57	.72	.92	1.26	1.59
Nov	.03	.08	.15	.21	.28	.36	.44	.55	.69	.92	1.14
Dec	.01	.04	.09	.14	.20	.26	.33	.42	.54	.74	.94
Ann	4.73	5.33	6.13	6.75	7.32	7.88	8.46	9.12	9.93	11.13	12.19

\+ 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

Complete documentation available from:
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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	2.3	-99.9	2	2
Feb	2.1	1.5	2	#
Mar	2.0	1.8	1	#
Apr	.5	.0	#	0
May	.2	.0	#	0
Jun	.2	.0	#	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.2	.0	#	0
Oct	.5	.0	#	0
Nov	.7	.8	#	0
Dec	2.3	1.7	1	#
Ann	11.0	-9.9	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	3.0	1978	16	4.5	1995	6	1995	31	4	1995
Feb	5.0	1973	18	5.0	1973	12	1999	10	8+	1999
Mar	6.0	1973	22	8.0	1973	11	1993	5	5	1993
Apr	6.0	1975	6	6.0	1975	6	1975	6	6	1975
May	3.0	1995	6	3.0	1995	#	2000	8	#	2000
Jun	3.0	1995	6	5.0	1995	1	1995	6	#	1995
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	6.0	1978	18	6.0	1978	1	1978	18	#+	1978
Oct	2.0	1971	16	9.0	1971	4	1971	31	#+	1997
Nov	2.0	1991	29	2.0	1973	3	2000	27	1	2000
Dec	3.0	1973	22	8.0	1977	6	1996	21	4	1996
Ann	6.0+	Sep 1978	18	9.0	Oct 1971	12	Feb 1999	10	8+	Feb 1999

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	2.5	1.5	.1	.0	.0
Feb	1.8	1.2	.2	.1	.0
Mar	1.0	.8	.3	.1	.0
Apr	.4	.1	.1	.0	.0
May	.1	.1	@	.0	.0
Jun	.1	.1	@	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	@	@	@	@	.0
Oct	.4	.2	.0	.0	.0
Nov	1.4	.7	.0	.0	.0
Dec	2.0	1.2	.1	.0	.0
Ann	9.7	5.9	.8	.2	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	-9.9	-9.9	-9.9	-9.9
Feb	6.7	2.1	.2	.0
Mar	2.3	.1	.0	.0
Apr	.0	.0	.0	.0
May	.0	.0	.0	.0
Jun	@	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	@	.0	.0	.0
Oct	.2	.1	.0	.0
Nov	1.1	.0	.0	.0
Dec	10.2	4.6	1.0	.0
Ann	-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

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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	7/23	7/19	7/16	7/13	7/11	7/08	7/06	7/03	6/29
32	7/12	7/06	7/02	6/28	6/25	6/21	6/17	6/13	6/07
28	6/25	6/18	6/13	6/09	6/05	6/01	5/28	5/23	5/16
24	6/04	5/28	5/23	5/19	5/15	5/11	5/07	5/02	4/25
20	5/19	5/13	5/09	5/05	5/02	4/28	4/24	4/20	4/14
16	5/06	4/29	4/24	4/19	4/15	4/11	4/07	4/02	3/26

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	8/06	8/11	8/14	8/17	8/20	8/23	8/26	8/29	9/03
32	8/21	8/26	8/29	9/01	9/03	9/06	9/09	9/12	9/16
28	8/30	9/04	9/08	9/11	9/14	9/16	9/19	9/23	9/28
24	9/08	9/13	9/17	9/20	9/23	9/26	9/29	10/03	10/08
20	9/21	9/26	9/29	10/02	10/05	10/07	10/10	10/14	10/19
16	9/30	10/06	10/10	10/13	10/16	10/19	10/23	10/27	11/01

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	60	53	48	44	40	36	31	26	19
32	94	86	80	75	70	65	60	54	46
28	124	116	110	105	100	95	90	85	76
24	157	148	141	136	131	125	120	113	104
20	175	168	163	159	155	152	147	143	136
16	213	203	195	189	183	177	171	163	153

***** 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	1476	1208	1065	759	532	280	116	137	369	701	1121	1455	9219
60	1321	1068	910	609	379	161	42	52	234	546	971	1300	7593
57	1228	984	817	519	292	105	18	23	164	454	881	1207	6692
55	1166	928	755	462	237	75	10	12	125	394	821	1145	6130
50	1011	788	600	324	124	25	1	1	52	252	671	990	4839
32	465	310	137	29	1	0	0	0	0	9	201	449	1601

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	12	26	96	260	491	721	961	918	624	331	71	17	4528
55	0	0	0	3	15	106	258	217	58	2	0	0	659
57	0	0	0	0	8	76	204	166	38	1	0	0	493
60	0	0	0	0	2	42	135	102	17	0	0	0	298
65	0	0	0	0	0	11	53	32	3	0	0	0	99
70	0	0	0	0	0	2	12	5	0	0	0	0	19

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	0	0	7	89	265	495	724	679	398	143	6	0	0	0	7	96	361	856	1580	2259	2657	2800	2806	2806
45	0	0	0	30	148	349	569	524	260	62	0	0	0	0	0	30	178	527	1096	1620	1880	1942	1942	1942
50	0	0	0	7	67	213	415	369	142	15	0	0	0	0	0	7	74	287	702	1071	1213	1228	1228	1228
55	0	0	0	1	19	106	263	223	53	1	0	0	0	0	0	1	20	126	389	612	665	666	666	666
60	0	0	0	0	0	37	130	96	11	0	0	0	0	0	0	0	0	37	167	263	274	274	274	274
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	0	13	95	213	347	490	475	325	158	14	0	0	0	13	108	321	668	1158	1633	1958	2116	2130	2130

(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