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: BROOKSVILLE CHIN HILL, FL **COOP ID: 081046**

Climate Division: FL 3 **NWS Call Sign:** **Elevation: 240 Feet** **Lat: 28˚37N** **Lon: 82˚22W**

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	71.0	48.6	59.8	89+	1972	26	71.4	1974	13	1985	21	51.5	1981	231	55	.0	.0	30.6	.0	2.4	.0
Feb	72.9	49.9	61.4	90	1962	26	67.5	1990	21+	1996	5	52.9	1978	151	50	.0	.0	28.0	@	1.4	.0
Mar	78.1	54.7	66.4	94+	1945	12	71.2	1974	20	1980	3	60.9	1996	68	111	.0	.1	30.9	.0	.2	.0
Apr	82.2	58.8	70.5	96+	1984	26	75.1	1999	36	1971	7	64.7	1987	18	183	.0	1.9	30.0	.0	.0	.0
May	87.7	64.9	76.3	101	1945	31	79.6	1995	48	1992	8	73.6	1988	0	350	@	9.6	31.0	.0	.0	.0
Jun	89.9	70.1	80.0	104	1985	6	83.4	1998	55	1984	1	78.1	1988	0	450	.5	17.9	30.0	.0	.0	.0
Jul	90.6	71.8	81.2	100+	1998	3	83.3	1979	61	1988	3	79.3	1974	0	501	@	22.0	31.0	.0	.0	.0
Aug	90.3	71.7	81.0	99	1997	8	82.7	1993	62	1985	24	79.2	1994	0	496	.0	22.0	31.0	.0	.0	.0
Sep	89.2	70.4	79.8	98	1968	6	81.5	1991	54	2001	30	77.6	1985	0	444	.0	16.2	30.0	.0	.0	.0
Oct	83.8	63.7	73.8	97	1935	22	78.2	1985	38+	2001	28	69.7	1987	5	275	.0	2.1	31.0	.0	.0	.0
Nov	78.1	56.7	67.4	90+	1936	11	74.3	1986	22	1970	25	62.2	1976	61	132	.0	.0	30.0	.0	.1	.0
Dec	72.3	50.5	61.4	90	1955	15	68.8	1971	15+	1989	24	54.5	1989	176	63	.0	.0	30.6	.0	1.4	.0
Ann	82.2	61.0	71.6	104	Jun 1985	6	83.4	Jun 1998	13	Jan 1985	21	51.5	Jan 1981	710	3110	.5	91.8	364.1	@	5.5	.0

\+ 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: 1931-2001

(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	3.27	3.03	3.18	1988	25	7.85	1994	.86	1981
Feb	3.24	2.69	4.91	1971	8	10.15	1998	.69	1989
Mar	4.22	3.37	6.70	1960	17	13.40	1987	1.09	2000
Apr	2.62	2.31	4.00	1984	4	7.38	1991	.05	1998
May	3.40	2.60	6.73	1976	15	16.27	1976	.00	1977
Jun	7.24	6.76	6.02	1945	24	14.37	1974	.90	1998
Jul	7.16	6.96	8.58	1960	29	12.14	1988	2.06	1996
Aug	8.24	8.16	5.85	1945	14	14.19	1995	4.12	1976
Sep	5.96	5.29	10.22	1950	6	17.32	1979	.48	1972
Oct	2.38	2.52	8.42	1944	19	10.77	1995	.01	1974
Nov	2.39	2.07	7.57	1951	16	9.17	1987	.01	1978
Dec	2.45	1.40	4.15	1953	23	10.10	1997	.37+	1992
Ann	52.57	50.07	10.22	Sep 1950	6	17.32	Sep 1979	.00	May 1977

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	7.9	4.9	2.0	.9
Feb	6.8	4.1	2.0	.9
Mar	7.0	5.1	2.7	1.4
Apr	5.2	3.4	1.7	.7
May	6.7	4.6	2.0	.9
Jun	12.4	8.7	4.4	2.3
Jul	14.6	10.0	4.5	2.1
Aug	16.0	11.6	5.7	2.6
Sep	11.7	8.2	3.7	1.8
Oct	6.7	3.7	1.2	.7
Nov	6.2	3.5	1.3	.5
Dec	7.1	4.2	1.8	.6
Ann	108.3	72.0	33.0	15.4

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	1.05	1.36	1.82	2.21	2.59	2.98	3.41	3.91	4.56	5.57	6.50
Feb	.47	.74	1.21	1.66	2.13	2.64	3.23	3.96	4.94	6.53	8.07
Mar	.86	1.24	1.86	2.43	3.00	3.61	4.30	5.14	6.24	8.00	9.67
Apr	.18	.35	.68	1.04	1.44	1.91	2.47	3.18	4.17	5.84	7.49
May	.38	.80	1.37	1.86	2.35	2.88	3.48	4.20	5.15	6.67	8.12
Jun	1.92	2.60	3.65	4.57	5.48	6.43	7.48	8.73	10.37	12.93	15.33
Jul	3.88	4.45	5.21	5.82	6.37	6.92	7.50	8.15	8.96	10.17	11.24
Aug	3.98	4.69	5.66	6.43	7.15	7.87	8.64	9.52	10.61	12.26	13.74
Sep	1.16	1.70	2.57	3.38	4.19	5.07	6.06	7.26	8.84	11.38	13.80
Oct	.08	.18	.43	.73	1.09	1.53	2.09	2.82	3.88	5.71	7.57
Nov	.14	.27	.56	.88	1.25	1.68	2.21	2.89	3.83	5.45	7.06
Dec	.21	.38	.70	1.04	1.42	1.84	2.35	2.99	3.87	5.34	6.78
Ann	38.13	40.95	44.55	47.27	49.68	52.01	54.42	57.07	60.27	64.92	68.92

\+ 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: 1931-2001
(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	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Feb	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Mar	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Apr	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
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	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.0	.0	N/A	N/A	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0

+ 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	3/20	3/11	3/05	2/28	2/23	2/18	2/13	2/06	1/29
32	3/07	2/25	2/18	2/12	2/07	2/01	1/26	1/19	1/10
28	2/20	2/09	2/01	1/24	1/15	12/30	0/00	0/00	0/00
24	2/05	1/23	1/12	12/25	0/00	0/00	0/00	0/00	0/00
20	1/19	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
16	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00

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	11/12	11/22	11/29	12/05	12/11	12/16	12/23	12/30	1/09
32	11/29	12/09	12/16	12/22	12/27	1/02	1/08	1/15	1/25
28	12/13	12/25	1/03	1/13	1/24	2/11	0/00	0/00	0/00
24	12/27	1/10	1/23	2/12	0/00	0/00	0/00	0/00	0/00
20	1/19	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
16	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	322	309	301	294	288	282	275	267	256
32	>365	343	331	322	315	309	302	294	284
28	>365	>365	>365	>365	>365	>365	351	334	317
24	>365	>365	>365	>365	>365	>365	>365	>365	332
20	>365	>365	>365	>365	>365	>365	>365	>365	>365
16	>365	>365	>365	>365	>365	>365	>365	>365	>365

***** 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	231	151	68	18	0	0	0	0	0	5	61	176	710
60	155	77	20	3	0	0	0	0	0	0	19	94	368
57	112	44	8	0	0	0	0	0	0	0	8	56	228
55	85	29	3	0	0	0	0	0	0	0	4	38	159
50	39	9	0	0	0	0	0	0	0	0	0	13	61
32	0	0	0	0	0	0	0	0	0	0	0	0	0

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	861	823	1066	1155	1373	1440	1524	1519	1434	1293	1061	911	14460
55	233	208	357	465	660	750	811	806	744	580	375	236	6225
57	198	167	299	405	598	690	749	744	684	518	319	192	5563
60	149	116	218	318	505	600	656	651	594	426	240	136	4609
65	55	50	111	183	350	450	501	496	444	275	132	63	3110
70	37	16	41	82	199	300	346	341	294	141	57	22	1876

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	625	631	829	922	1132	1207	1285	1283	1201	1053	828	673	625	1256	2085	3007	4139	5346	6631	7914	9115	10168	10996	11669
45	475	489	675	772	977	1057	1130	1128	1051	898	678	523	475	964	1639	2411	3388	4445	5575	6703	7754	8652	9330	9853
50	337	356	525	622	822	907	975	973	901	743	529	378	337	693	1218	1840	2662	3569	4544	5517	6418	7161	7690	8068
55	213	228	373	472	667	757	820	818	751	588	384	251	213	441	814	1286	1953	2710	3530	4348	5099	5687	6071	6322
60	117	129	236	327	512	607	665	663	601	433	246	143	117	246	482	809	1321	1928	2593	3256	3857	4290	4536	4679
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	392	399	543	621	788	844	899	901	850	733	545	426	392	791	1334	1955	2743	3587	4486	5387	6237	6970	7515	7941

(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