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: GAINESVILLE RGNL AP, FL **COOP ID: 083326**

Climate Division: FL 2 **NWS Call Sign: GNV** **Elevation: 134 Feet** **Lat: 29˚42N** **Lon: 82˚17W**

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	66.2	42.4	54.3	83+	2001	19	66.8	1974	10	1985	21	45.1	1977	324	8	.0	.0	29.9	@	4.9	.0
Feb	69.3	44.7	57.0	88	1962	24	63.8	1990	18	1996	5	48.5	1978	221	13	.0	.0	27.9	.1	1.8	.0
Mar	75.1	49.9	62.5	90	1963	18	68.6	1997	28+	1996	9	57.8	1996	129	66	.0	.1	30.8	.0	.7	.0
Apr	80.4	54.7	67.6	95	1991	28	72.0	1999	32	1962	17	63.7	1987	40	131	.0	1.5	30.0	.0	.0	.0
May	86.5	62.0	74.3	98+	1989	27	78.8	1991	42	1992	8	71.2	1992	4	308	.0	9.4	31.0	.0	.0	.0
Jun	89.9	68.4	79.2	102	1985	4	84.0	1998	50	1984	1	76.6	1976	0	439	.5	18.4	30.0	.0	.0	.0
Jul	90.9	70.8	80.9	108	2000	30	83.4	1998	62+	1988	8	78.8	1974	0	507	.1	23.9	31.0	.0	.0	.0
Aug	90.1	70.6	80.4	99+	1999	2	82.2	1999	62	1984	29	78.7	1994	0	492	.0	22.0	31.0	.0	.0	.0
Sep	87.4	68.1	77.8	97	1997	21	79.7	1997	48	1967	30	75.7+	1983	0	400	.0	13.0	30.0	.0	.0	.0
Oct	81.0	59.2	70.1	92+	1965	2	76.1	1985	33	1989	21	64.7	1987	21	195	.0	1.2	31.0	.0	.0	.0
Nov	74.4	51.1	62.8	88+	1986	9	70.5	1985	25	2000	22	55.8	1976	124	74	.0	.0	29.9	.0	.5	.0
Dec	68.1	44.4	56.3	85	1967	19	64.2	1971	13	1962	13	47.5	1989	280	26	.0	.0	30.2	@	3.8	.0
Ann	79.9	57.2	68.6	108	Jul 2000	30	84.0	Jun 1998	10	Jan 1985	21	45.1	Jan 1977	1143	2659	.6	89.5	362.7	.1	11.7	.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: 1960-2001

(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	3.51	3.20	2.22	1986	10	9.01	1994	.83	1981
Feb	3.39	3.51	4.60	1998	22	11.58	1998	.32	1991
Mar	4.26	3.36	3.31	1991	2	11.13	1996	.61	1999
Apr	2.86	2.45	2.81	1964	28	7.42	1997	.08	1998
May	3.23	2.97	3.54	1967	22	9.26	1976	.51	2000
Jun	6.78	6.47	4.31	1990	23	12.86	1992	2.22	1988
Jul	6.10	6.39	4.96	1996	6	11.57	1975	1.52	1992
Aug	6.63	6.25	3.76	1967	3	15.84	1985	2.49	1987
Sep	4.37	3.89	6.16	1988	6	11.97	1988	.96	1972
Oct	2.50	1.83	5.13	1992	3	7.98	1993	.00	1987
Nov	2.17	2.08	2.29	1997	13	4.51	1987	.24	1998
Dec	2.56	2.11	2.64	1997	12	9.60	1997	.21	1984
Ann	48.36	48.21	6.16	Sep 1988	6	15.84	Aug 1985	.00	Oct 1987

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.0	6.2	2.2	1.0
Feb	8.4	4.5	2.1	.6
Mar	9.3	6.1	2.5	1.2
Apr	6.7	4.2	2.1	.9
May	8.6	4.4	1.0	.4
Jun	16.2	10.5	3.6	1.2
Jul	15.0	8.8	2.5	1.0
Aug	15.1	9.1	2.7	1.1
Sep	15.1	9.2	2.9	1.0
Oct	4.2	2.4	1.0	.4
Nov	7.7	3.8	1.3	.6
Dec	9.1	5.4	1.9	.8
Ann	125.4	74.6	25.8	10.2

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	1.15	1.49	1.98	2.39	2.79	3.21	3.66	4.19	4.87	5.93	6.91
Feb	.46	.74	1.22	1.69	2.19	2.74	3.37	4.15	5.20	6.92	8.58
Mar	1.06	1.46	2.08	2.63	3.18	3.75	4.39	5.15	6.14	7.71	9.19
Apr	.37	.59	1.00	1.40	1.82	2.29	2.83	3.50	4.40	5.89	7.33
May	.70	1.00	1.47	1.90	2.33	2.79	3.31	3.92	4.74	6.04	7.27
Jun	2.82	3.44	4.31	5.02	5.70	6.38	7.11	7.95	9.02	10.65	12.13
Jul	2.45	3.01	3.81	4.46	5.08	5.71	6.39	7.17	8.16	9.68	11.06
Aug	2.84	3.44	4.27	4.96	5.60	6.25	6.95	7.76	8.77	10.32	11.72
Sep	1.40	1.81	2.43	2.95	3.46	3.98	4.56	5.23	6.10	7.44	8.69
Oct	.10	.31	.67	1.04	1.43	1.88	2.41	3.07	3.98	5.50	6.98
Nov	.50	.70	1.02	1.30	1.59	1.89	2.23	2.63	3.16	4.00	4.79
Dec	.43	.65	1.02	1.37	1.74	2.13	2.58	3.13	3.86	5.05	6.18
Ann	37.76	39.89	42.58	44.59	46.36	48.05	49.79	51.69	53.98	57.26	60.06

\+ 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: 1960-2001
(3) Derived from 1971-2000 serially complete daily data

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Climate Division: FL 2 **NWS Call Sign: GNV** **Elevation: 134 Feet** **Lat: 29°42N** **Lon: 82°17W**

Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	#	.0	0	0
Feb	#	.0	0	0
Mar	.0	.0	0	0
Apr	.0	.0	0	0
May	.0	.0	0	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	.0	.0	0	0
Nov	.0	.0	0	0
Dec	#	.0	0	0
Ann	#	.0	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	#	1996	8	#	1996	0	0	0	0	0
Feb	#	1988	6	#	1988	0	0	0	0	0
Mar	.0	0	0	.0	0	0	0	0	0	0
Apr	.0	0	0	.0	0	0	0	0	0	0
May	.0	0	0	.0	0	0	0	0	0	0
Jun	.0	0	0	.0	0	0	0	0	0	0
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	.0	0	0	.0	0	0	0	0	0	0
Oct	.0	0	0	.0	0	0	0	0	0	0
Nov	.0	0	0	.0	0	0	0	0	0	0
Dec	#	1989	23	#	1989	0	0	0	0	0
Ann	#+	Jan 1996	8	#+	Jan 1996	0	0	0	0	0

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.0	.0	.0	.0	.0
Feb	.0	.0	.0	.0	.0
Mar	.0	.0	.0	.0	.0
Apr	.0	.0	.0	.0	.0
May	.0	.0	.0	.0	.0
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.0	.0	.0	.0	.0
Oct	.0	.0	.0	.0	.0
Nov	.0	.0	.0	.0	.0
Dec	.0	.0	.0	.0	.0
Ann	.0	.0	.0	.0	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.0	.0	.0	.0
Feb	.0	.0	.0	.0
Mar	.0	.0	.0	.0
Apr	.0	.0	.0	.0
May	.0	.0	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.0	.0	.0	.0
Nov	.0	.0	.0	.0
Dec	.0	.0	.0	.0
Ann	.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	4/09	3/27	3/19	3/11	3/04	2/25	2/17	2/08	1/27
32	3/12	3/02	2/23	2/17	2/12	2/06	1/31	1/24	1/15
28	2/25	2/17	2/10	2/05	1/31	1/25	1/20	1/12	12/29
24	2/10	1/30	1/22	1/14	1/05	12/19	0/00	0/00	0/00
20	1/23	1/09	0/00	0/00	0/00	0/00	0/00	0/00	0/00
16	12/27	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	10/31	11/08	11/15	11/20	11/25	11/30	12/05	12/11	12/20
32	11/14	11/22	11/28	12/03	12/07	12/12	12/17	12/23	12/31
28	11/26	12/07	12/16	12/24	12/31	1/07	1/15	1/26	2/14
24	12/14	12/27	1/07	1/17	1/28	2/18	0/00	0/00	0/00
20	1/02	1/15	2/02	0/00	0/00	0/00	0/00	0/00	0/00
16	1/15	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	309	294	283	274	265	257	248	237	222
32	335	322	313	305	298	291	283	274	261
28	>365	>365	362	341	329	319	309	299	285
24	>365	>365	>365	>365	>365	>365	>365	336	316
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	324	221	129	40	4	0	0	0	0	21	124	280	1143
60	259	145	59	6	0	0	0	0	0	8	69	186	732
57	205	100	30	1	0	0	0	0	0	3	38	135	512
55	172	74	18	0	0	0	0	0	0	2	25	104	395
50	100	28	4	0	0	0	0	0	0	0	7	46	185
32	3	0	0	0	0	0	0	0	0	0	0	0	3

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	722	735	949	1063	1328	1426	1525	1512	1386	1201	939	759	13545
55	119	153	264	375	615	736	812	799	696	489	273	145	5476
57	89	119	215	318	553	676	750	737	636	428	226	113	4860
60	53	75	147	236	460	586	657	644	546	339	163	72	3978
65	8	13	66	131	308	439	507	492	400	195	74	26	2659
70	1	3	13	44	164	286	347	334	247	94	23	3	1559

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	507	536	737	847	1089	1200	1292	1281	1166	974	705	553	507	1043	1780	2627	3716	4916	6208	7489	8655	9629	10334	10887
45	363	393	583	697	934	1050	1137	1126	1016	819	555	408	363	756	1339	2036	2970	4020	5157	6283	7299	8118	8673	9081
50	239	259	435	548	779	900	982	971	866	664	408	271	239	498	933	1481	2260	3160	4142	5113	5979	6643	7051	7322
55	138	147	293	398	624	750	827	816	716	510	269	163	138	285	578	976	1600	2350	3177	3993	4709	5219	5488	5651
60	67	60	171	255	469	600	672	661	566	361	153	85	67	127	298	553	1022	1622	2294	2955	3521	3882	4035	4120
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	314	326	480	556	741	827	896	895	820	665	453	346	314	640	1120	1676	2417	3244	4140	5035	5855	6520	6973	7319

(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.
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