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: JACKSONVILLE INTL AP, FL **COOP ID: 084358**

Climate Division: FL 2 **NWS Call Sign: JAX** **Elevation: 26 Feet** **Lat: 30˚30N** **Lon: 81˚42W**

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	64.2	41.9	53.1	84+	1982	31	66.3	1974	7	1985	21	43.6	1977	374	15	.0	.0	28.6	@	7.0	.0
Feb	67.3	44.3	55.8	88+	1962	26	62.7	1990	19	1996	5	47.1	1978	272	21	.0	.0	26.9	.1	4.3	.0
Mar	73.4	49.8	61.6	91+	1974	10	67.6	1997	23	1980	3	57.0	1971	155	58	.0	@	30.7	.0	1.0	.0
Apr	78.6	54.6	66.6	95	1968	21	71.9	1991	34	1987	1	62.3	1983	55	116	.0	1.2	30.0	.0	.0	.0
May	84.3	62.5	73.4	100	1967	13	78.8	1991	45+	1992	8	70.8+	1988	5	277	.0	6.2	31.0	.0	.0	.0
Jun	88.7	69.4	79.1	103+	1998	19	84.0	1998	47	1984	1	75.6	1972	0	437	.5	16.3	30.0	.0	.0	.0
Jul	90.8	72.4	81.6	103+	2000	20	83.6	1981	61	1972	8	78.2	1974	0	530	.7	23.4	31.0	.0	.0	.0
Aug	89.4	72.2	80.8	102+	1999	1	83.1	1987	59	2000	12	78.9	1976	0	506	.1	20.1	31.0	.0	.0	.0
Sep	86.1	69.4	77.8	98+	1999	5	80.2	1980	48+	1981	20	74.7	1984	0	400	.0	10.0	30.0	.0	.0	.0
Oct	79.1	59.7	69.4	96	1951	6	74.7	1985	36+	1989	21	63.3	1987	30	182	.0	1.2	31.0	.0	.0	.0
Nov	72.5	50.8	61.7	88+	1986	9	69.0	1985	21	1970	25	53.7	1976	148	64	.0	.0	29.9	.0	1.0	.0
Dec	65.8	44.1	55.0	84+	1994	4	63.9	1971	11	1983	25	47.2	1989	315	21	.0	.0	29.5	@	5.0	.0
Ann	78.4	57.6	68.0	103+	Jul 2000	20	84.0	Jun 1998	7	Jan 1985	21	43.6	Jan 1977	1354	2627	1.3	78.4	359.6	.1	18.3	.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: 1948-2001

(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	3.69	3.24	2.90	1991	19	10.20	1991	.28	1974
Feb	3.15	2.61	4.93	1970	3	11.12	1998	.92	1994
Mar	3.93	3.44	7.12	1970	28	10.18	1973	.40	1999
Apr	3.14	2.82	7.35	1973	3	11.61	1973	.14	1987
May	3.48	2.11	5.40	1975	27	10.02	1976	.18	1990
Jun	5.37	4.68	5.92	1968	6	13.96	1994	1.59	1990
Jul	5.97	5.57	7.26	1966	1	15.90	1991	1.97	1977
Aug	6.87	7.10	7.82	1968	28	12.83	1971	2.39	1978
Sep	7.90	7.53	10.13	1949	25	17.75	1979	1.22	1981
Oct	3.86	3.31	7.83	1992	3	11.46	1996	.23	2000
Nov	2.34	2.36	2.75	1969	1	5.02	1987	.39	1975
Dec	2.64	1.98	2.86+	1997	10	9.77	1997	.13	1984
Ann	52.34	51.16	10.13	Sep 1949	25	17.75	Sep 1979	.13	Dec 1984

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	8.7	6.0	2.5	1.2
Feb	7.7	4.9	2.2	.9
Mar	8.2	6.0	2.4	1.3
Apr	6.4	4.3	2.1	1.0
May	8.1	4.8	2.3	.8
Jun	13.1	8.9	3.5	1.3
Jul	13.6	9.5	3.7	2.0
Aug	14.5	9.8	4.5	2.0
Sep	12.5	9.0	4.5	2.5
Oct	8.2	4.8	2.2	1.0
Nov	6.9	4.1	1.4	.8
Dec	8.0	4.5	1.6	.7
Ann	115.9	76.6	32.9	15.5

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	.77	1.10	1.64	2.14	2.63	3.16	3.76	4.48	5.43	6.95	8.39
Feb	.67	.96	1.42	1.84	2.26	2.71	3.22	3.82	4.62	5.90	7.10
Mar	.78	1.14	1.72	2.25	2.78	3.36	4.01	4.79	5.82	7.48	9.06
Apr	.42	.68	1.13	1.57	2.02	2.53	3.12	3.84	4.81	6.40	7.94
May	.35	.60	1.08	1.57	2.09	2.68	3.38	4.25	5.44	7.42	9.35
Jun	1.73	2.24	2.99	3.63	4.25	4.89	5.59	6.41	7.47	9.11	10.64
Jul	2.36	2.91	3.70	4.34	4.96	5.58	6.26	7.03	8.02	9.54	10.92
Aug	2.69	3.33	4.23	4.98	5.69	6.41	7.19	8.09	9.24	11.00	12.60
Sep	1.92	2.66	3.81	4.84	5.86	6.93	8.13	9.56	11.43	14.40	17.18
Oct	.31	.57	1.08	1.61	2.20	2.87	3.68	4.70	6.10	8.46	10.78
Nov	.46	.67	1.02	1.33	1.65	1.99	2.38	2.84	3.46	4.45	5.39
Dec	.21	.39	.74	1.10	1.50	1.96	2.51	3.21	4.17	5.78	7.36
Ann	35.27	38.51	42.69	45.88	48.74	51.52	54.40	57.60	61.50	67.18	72.13

\+ 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

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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	#	1985	20	#+	1985	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Feb	#	.0	0	0	#	1994	2	#+	1994	#	1988	6	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Mar	.0	.0	0	0	.5	1986	1	.5	1986	#	1986	1	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	#	1988	.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	.8	1989	23	.8	1989	1	1989	24	#	1989	.0	.0	.0	.0	.0	@	.0	.0	.0
Ann	#	.0	N/A	N/A	.8	Dec 1989	23	.8	Dec 1989	1	Dec 1989	24	#+	Dec 1989	.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	3/30	3/25	3/22	3/19	3/16	3/13	3/10	3/06	3/01
32	3/21	3/13	3/08	3/03	2/26	2/22	2/17	2/11	2/04
28	3/04	2/23	2/17	2/11	2/06	2/01	1/27	1/20	1/11
24	2/17	2/07	1/31	1/24	1/16	1/05	0/00	0/00	0/00
20	1/26	1/15	1/03	0/00	0/00	0/00	0/00	0/00	0/00
16	1/05	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	10/26	11/03	11/09	11/13	11/18	11/22	11/27	12/03	12/10
32	11/12	11/19	11/24	11/29	12/03	12/07	12/11	12/17	12/24
28	11/23	12/04	12/12	12/19	12/25	1/01	1/07	1/15	1/27
24	12/19	12/31	1/09	1/18	1/28	2/11	0/00	0/00	0/00
20	12/31	1/15	2/03	0/00	0/00	0/00	0/00	0/00	0/00
16	1/24	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	272	263	257	251	246	241	236	229	221
32	310	299	291	285	279	273	266	258	248
28	>365	344	331	323	315	309	302	294	283
24	>365	>365	>365	>365	>365	>365	360	338	321
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	374	272	155	55	5	0	0	0	0	30	148	315	1354
60	286	168	74	10	0	0	0	0	0	12	81	211	842
57	229	120	40	3	0	0	0	0	0	5	47	155	599
55	195	92	25	1	0	0	0	0	0	3	30	123	469
50	119	39	6	0	0	0	0	0	0	0	9	58	231
32	7	0	0	0	0	0	0	0	0	0	0	0	7

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	665	675	928	1049	1297	1427	1557	1532	1389	1174	904	725	13322
55	100	122	246	362	584	737	844	819	699	462	244	128	5347
57	75	93	200	305	522	677	782	757	639	402	199	99	4750
60	46	58	136	225	429	587	689	664	549	314	140	62	3899
65	15	21	58	116	277	437	530	506	400	182	64	21	2627
70	2	3	15	41	142	287	379	354	251	79	17	4	1574

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	433	479	692	817	1054	1195	1321	1293	1159	936	671	490	433	912	1604	2421	3475	4670	5991	7284	8443	9379	10050	10540
45	300	345	538	667	899	1045	1166	1138	1009	781	522	349	300	645	1183	1850	2749	3794	4960	6098	7107	7888	8410	8759
50	187	226	389	517	744	895	1011	983	859	626	380	226	187	413	802	1319	2063	2958	3969	4952	5811	6437	6817	7043
55	107	129	254	370	589	745	856	828	709	471	250	135	107	236	490	860	1449	2194	3050	3878	4587	5058	5308	5443
60	51	65	141	232	434	595	701	673	559	322	146	67	51	116	257	489	923	1518	2219	2892	3451	3773	3919	3986
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	270	298	440	532	724	828	914	905	817	631	434	302	270	568	1008	1540	2264	3092	4006	4911	5728	6359	6793	7095

(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