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: TALLAHASSEE MUNICIPAL AP, FL **COOP ID: 088758**

Climate Division: FL 1 **NWS Call Sign: TLH** **Elevation: 55 Feet** **Lat: 30˚24N** **Lon: 84˚21W**

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	63.8	39.7	51.8	83	1957	30	66.9	1974	6	1985	21	44.2	1977	428	9	.0	.0	28.4	@	10.9	.0
Feb	67.4	42.1	54.8	86	2000	19	61.6	1990	14	1971	10	45.6	1978	312	12	.0	.0	27.0	.1	7.3	.0
Mar	74.0	48.2	61.1	90	1967	15	66.7	1997	20+	1986	2	55.2	1971	181	44	.0	.0	30.8	.0	3.1	.0
Apr	80.0	52.8	66.4	95+	1999	24	72.2	1991	29+	1987	1	62.5	1996	70	96	.0	1.3	30.0	.0	.4	.0
May	86.5	62.3	74.4	102	1953	27	78.4	1991	34	1971	4	70.3	1971	1	276	@	7.7	31.0	.0	.0	.0
Jun	90.9	69.8	80.4	103+	1985	6	85.3	1998	46	1984	1	77.1	1997	0	447	.7	19.5	30.0	.0	.0	.0
Jul	92.0	72.7	82.4	103+	2000	19	84.6	2000	57	1967	16	79.9	1971	0	524	1.0	23.9	31.0	.0	.0	.0
Aug	91.5	72.7	82.1	103	1995	15	84.2	1999	57	1997	23	80.2	1996	0	514	.3	22.9	31.0	.0	.0	.0
Sep	88.5	69.2	78.9	99+	1997	21	81.8	1980	40	1967	30	76.2	1981	1	402	.0	15.1	30.0	.0	.0	.0
Oct	81.2	56.9	69.1	94+	1986	8	74.8	1985	30+	1993	31	62.4	1987	49	162	.0	1.8	31.0	.0	.2	.0
Nov	72.9	47.9	60.4	88	1961	1	67.2	1986	13	1970	25	53.8	1976	193	49	.0	.0	29.9	.0	3.4	.0
Dec	65.8	41.6	53.7	84	1971	16	63.1	1971	10	1962	13	45.7	1989	369	16	.0	.0	29.2	.1	9.1	.0
Ann	79.5	56.3	68.0	103+	Jul 2000	19	85.3	Jun 1998	6	Jan 1985	21	44.2	Jan 1977	1604	2551	2.0	92.2	359.3	.2	34.4	.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

Means/Medians(1)

Month	Mean	Median
Jan	5.36	4.22
Feb	4.63	4.73
Mar	6.47	5.94
Apr	3.59	3.06
May	4.95	4.05
Jun	6.92	6.74
Jul	8.04	7.48
Aug	7.03	6.78
Sep	5.01	4.32
Oct	3.25	2.18
Nov	3.86	3.34
Dec	4.10	4.10
Ann	63.21	62.04

Extremes

Month	Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year
Jan	4.93	1991	19	18.94	1991	.47	1989
Feb	5.59	1964	27	9.61	1986	.87	1991
Mar	7.09	1962	31	13.57	1973	1.89	1979
Apr	4.67	1973	3	13.13	1973	.33	1992
May	5.09	1991	27	11.66	1976	.16	2000
Jun	8.17	2001	11	17.41	1989	1.95	1998
Jul	8.21	1964	18	17.52	1975	2.35	1983
Aug	7.07	1950	31	15.73	1977	2.45	1983
Sep	8.86	1969	21	13.92	1998	.11	1972
Oct	7.79	1996	7	11.79	1976	.00	1987
Nov	4.93	1976	27	10.44	1976	.55	1990
Dec	5.04	1964	3	7.93	1986	.89	1980
Ann	8.86	Sep 1969	21	18.94	Jan 1991	.00	Oct 1987

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	9.9	7.1	3.5	1.9
Feb	8.2	5.5	3.1	1.4
Mar	8.4	6.2	3.7	2.3
Apr	6.3	4.2	2.2	1.2
May	7.9	5.4	2.9	1.5
Jun	13.1	8.9	4.5	2.1
Jul	15.9	11.3	5.2	2.3
Aug	14.5	9.7	4.8	2.5
Sep	9.3	6.5	3.0	1.5
Oct	5.1	3.5	1.7	1.0
Nov	6.8	4.5	2.3	1.3
Dec	8.1	5.6	2.6	1.3
Ann	113.5	78.4	39.5	20.3

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	1.22	1.72	2.50	3.21	3.91	4.66	5.50	6.50	7.81	9.91	11.88
Feb	1.18	1.62	2.30	2.89	3.48	4.09	4.78	5.60	6.66	8.34	9.92
Mar	2.05	2.66	3.57	4.35	5.10	5.88	6.74	7.74	9.03	11.04	12.90
Apr	.26	.48	.94	1.44	1.99	2.62	3.38	4.35	5.70	7.97	10.21
May	.58	.96	1.66	2.35	3.08	3.90	4.86	6.04	7.66	10.31	12.90
Jun	1.81	2.47	3.47	4.35	5.22	6.13	7.15	8.35	9.92	12.39	14.69
Jul	2.60	3.36	4.49	5.45	6.37	7.33	8.38	9.61	11.19	13.64	15.91
Aug	2.55	3.21	4.16	4.96	5.72	6.50	7.35	8.34	9.60	11.54	13.32
Sep	.64	1.04	1.75	2.45	3.19	4.01	4.96	6.13	7.71	10.31	12.83
Oct	.13	.40	.87	1.34	1.86	2.44	3.13	4.00	5.19	7.17	9.11
Nov	.67	1.01	1.57	2.10	2.64	3.22	3.89	4.70	5.78	7.53	9.20
Dec	1.04	1.43	2.02	2.55	3.07	3.62	4.23	4.95	5.90	7.39	8.79
Ann	44.84	48.39	52.95	56.40	59.47	62.44	65.51	68.90	73.02	78.99	84.15

\+ 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: 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	#	1996	8	#+	1996	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Feb	.0	.0	0	0	.4	1973	10	.4	1973	#	1973	10	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Mar	#	.0	0	0	#	1996	10	#+	1996	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	#	1973	.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	.8	1989	22	1.0	1989	#+	1989	24	0	0	.1	.0	.0	.0	.0	.0	.0	.0	.0
Ann	#	.0	N/A	N/A	.8	Dec 1989	22	1.0	Dec 1989	#+	Dec 1989	24	#	May 1973	.1	.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	4/24	4/17	4/12	4/08	4/04	3/31	3/27	3/22	3/15
32	4/10	4/03	3/29	3/25	3/22	3/18	3/14	3/09	3/02
28	3/23	3/15	3/10	3/05	3/01	2/24	2/20	2/14	2/07
24	3/06	2/27	2/22	2/18	2/14	2/10	2/05	1/31	1/22
20	2/23	2/13	2/05	1/28	1/21	1/12	12/30	0/00	0/00
16	1/26	1/14	12/29	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	10/16	10/22	10/26	10/29	11/02	11/05	11/08	11/12	11/18
32	10/24	11/01	11/07	11/12	11/17	11/21	11/26	12/02	12/10
28	11/07	11/15	11/20	11/25	11/30	12/04	12/09	12/14	12/22
24	11/25	12/05	12/11	12/17	12/23	12/28	1/03	1/11	1/22
20	12/14	12/21	12/27	1/01	1/06	1/12	1/21	0/00	0/00
16	1/02	1/16	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	238	229	222	216	211	206	200	193	184
32	272	261	253	246	239	233	226	218	206
28	303	293	285	279	273	267	261	253	243
24	>365	337	325	317	310	303	295	287	276
20	>365	>365	>365	>365	>365	345	327	316	303
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	428	312	181	70	1	0	0	0	1	49	193	369	1604
60	314	182	90	15	0	0	0	0	0	17	101	252	971
57	252	128	52	5	0	0	0	0	0	8	63	193	701
55	216	98	34	3	0	0	0	0	0	5	43	159	558
50	137	41	10	0	0	0	0	0	0	0	14	87	289
32	9	0	0	0	0	0	0	0	0	0	0	2	11

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	606	626	886	1014	1294	1432	1541	1533	1389	1133	844	667	12965
55	78	95	215	329	581	742	828	820	699	424	202	106	5119
57	57	71	172	275	519	682	766	758	639	365	163	81	4548
60	33	41	115	199	427	592	673	665	549	281	111	49	3735
65	9	12	44	96	276	447	524	514	402	162	49	16	2551
70	1	1	9	29	139	292	363	356	254	70	11	2	1527

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	377	431	648	784	1051	1203	1304	1295	1157	895	615	435	377	808	1456	2240	3291	4494	5798	7093	8250	9145	9760	10195
45	255	304	498	634	896	1053	1149	1140	1007	740	468	302	255	559	1057	1691	2587	3640	4789	5929	6936	7676	8144	8446
50	153	189	349	484	741	903	994	985	857	585	328	189	153	342	691	1175	1916	2819	3813	4798	5655	6240	6568	6757
55	82	105	225	338	586	753	839	830	707	432	208	110	82	187	412	750	1336	2089	2928	3758	4465	4897	5105	5215
60	37	46	121	204	433	603	684	675	557	288	117	51	37	83	204	408	841	1444	2128	2803	3360	3648	3765	3816
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	248	288	433	523	718	821	895	894	804	606	410	285	248	536	969	1492	2210	3031	3926	4820	5624	6230	6640	6925

(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