

Climatology of the United States

No. 20

1971-2000

Station: JACKSONVILLE BEACH, FL

COOP ID: 084366

Climate Division: FL 2

NWS Call Sign:

Elevation: 10 Feet

Lat: 30° 17N

Lon: 81° 24W

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	63.5	45.6	54.6	85+	1985	31	66.5	1974	14	1985	21	46.2	1977	351	12	.0	.0	29.5	.0	2.8	.0
Feb	64.7	47.5	56.1	90	1962	24	61.4	1990	21+	1996	5	47.4	1978	264	15	.0	.0	27.3	@	1.7	.0
Mar	70.0	52.9	61.5	94	1964	15	67.8	1997	24	1980	3	57.1	1978	151	41	.0	.0	30.8	.0	.2	.0
Apr	75.8	58.7	67.3	94	1986	27	70.8	1999	37	1987	1	63.4	1987	32	99	.0	.5	30.0	.0	.0	.0
May	81.8	65.8	73.8	97+	2000	28	78.3	1991	47	1958	7	70.4	1992	2	276	.0	2.5	31.0	.0	.0	.0
Jun	86.7	71.6	79.2	102	1954	28	84.1	1998	55	1984	1	76.5	1976	0	424	.0	8.2	30.0	.0	.0	.0
Jul	89.3	73.5	81.4	103	1986	16	84.4	1986	57	1965	9	78.2	1984	0	509	.3	13.6	31.0	.0	.0	.0
Aug	88.0	73.8	80.9	102	1999	1	84.0	1987	63+	1965	15	79.3	1994	0	493	@	9.4	31.0	.0	.0	.0
Sep	85.2	72.5	78.9	98	1972	16	80.9	1980	53+	1981	19	77.2	1984	0	417	.0	3.5	30.0	.0	.0	.0
Oct	79.0	64.9	72.0	95	1951	7	76.1	1985	38	1957	28	66.6	1976	14	230	.0	.5	31.0	.0	.0	.0
Nov	71.9	56.3	64.1	89	1961	1	70.5	1985	25	1970	24	56.2	1976	115	88	.0	.0	30.0	.0	.1	.0
Dec	65.4	48.6	57.0	85+	1973	3	64.5	1971	15	1983	25	48.5	1989	276	27	.0	.0	30.0	.0	1.8	.0
Ann	76.8	61.0	68.9	103	Jul 1986	16	84.4	Jul 1986	14	Jan 1985	21	46.2	Jan 1977	1205	2631	.3	38.2	361.6	@	6.6	.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/normal/usnormals.html

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1948-2001

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Precipitation (inches)

		Precipitation Totals								Mean Number of Days (3)				Precipitation Probabilities (1)											
														Probability that the monthly/annual precipitation will be equal to or less than the indicated amount											
Means/Medians(1)		Extremes							Daily Precipitation				Monthly/Annual Precipitation vs Probability Levels												
													These values were determined from the incomplete gamma distribution												
Month	Mean	Med-ian	Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year	>= 0.01	>= 0.10	>= 0.50	>= 1.00	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95	
Jan	3.56	3.34	3.04	1978	19	9.79	1994	.33	1974	8.7	5.9	2.6	1.1	.65	.97	1.49	1.97	2.47	3.00	3.61	4.34	5.32	6.89	8.39	
Feb	2.84	2.49	4.18	1970	3	7.56	1998	.40	1996	7.5	5.0	2.1	.8	.53	.78	1.20	1.58	1.97	2.40	2.88	3.46	4.23	5.48	6.66	
Mar	3.92	3.30	5.21	1970	28	8.61	1973	.48	1999	7.9	5.9	2.9	1.4	.97	1.34	1.91	2.42	2.92	3.45	4.04	4.74	5.66	7.11	8.47	
Apr	2.87	2.04	4.59	1997	27	10.59	1997	.34	1986	5.8	4.0	1.8	.9	.49	.74	1.15	1.55	1.95	2.39	2.89	3.50	4.31	5.63	6.89	
May	3.03	2.80	4.85	1959	20	7.39	1976	.13	1990	7.5	4.7	2.0	.8	.48	.74	1.18	1.60	2.03	2.50	3.04	3.69	4.57	6.00	7.36	
Jun	5.70	4.53	5.75	1957	25	15.65	1995	.79	1998	11.5	8.1	3.3	1.5	1.10	1.62	2.45	3.22	4.01	4.84	5.80	6.94	8.46	10.90	13.22	
Jul	5.21	5.20	4.60	1966	1	11.51	1991	.92	1990	10.9	7.8	3.4	1.5	1.46	1.96	2.71	3.36	4.00	4.66	5.40	6.27	7.40	9.17	10.82	
Aug	6.11	4.76	12.56	1995	19	30.75	1995	.83	1984	12.0	8.2	3.4	1.7	.94	1.46	2.34	3.19	4.06	5.02	6.12	7.47	9.27	12.20	15.02	
Sep	7.53	6.63	7.79	1979	26	24.35	1979	.79	1972	12.2	9.2	4.4	2.4	1.61	2.31	3.41	4.41	5.42	6.49	7.70	9.15	11.06	14.12	17.00	
Oct	5.04	4.59	7.62	1982	23	15.59	1993	.25	1987	8.8	6.3	2.8	1.5	.38	.70	1.35	2.04	2.81	3.70	4.77	6.12	7.99	11.14	14.25	
Nov	2.36	2.41	4.35	2001	14	5.51	1994	.20	1973	7.2	4.0	1.5	.6	.37	.57	.91	1.24	1.57	1.94	2.37	2.88	3.58	4.70	5.79	
Dec	2.75	2.16	3.57	1983	29	9.86	1983	.17	1992	8.4	4.7	1.8	.7	.20	.37	.72	1.10	1.52	2.01	2.59	3.33	4.36	6.10	7.82	
Ann	50.92	50.50	12.56	Aug 1995	19	30.75	Aug 1995	.13	May 1990	108.4	73.8	32.0	14.9	32.35	35.79	40.28	43.75	46.87	49.91	53.08	56.63	60.96	67.33	72.91	

+ 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

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Snow (inches)																							
Snow Totals															Mean Number of Days (1)								
Means/Medians (1)					Extremes (2)										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	#	1977	19	#	1977	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	.1	.0	0	0	2.5	1989	23	2.5	1989	0	0	0	0	0	@	@	.0	.0	.0	.0	.0	.0	.0
Ann	.1	.0	N/A	N/A	2.5	Dec 1989	23	2.5	Dec 1989	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	3/12	3/05	2/28	2/24	2/20	2/15	2/11	2/06	1/30
32	3/03	2/22	2/16	2/10	2/05	1/31	1/26	1/19	1/08
28	3/01	2/18	2/09	2/01	1/24	1/13	0/00	0/00	0/00
24	2/11	1/29	1/17	1/02	0/00	0/00	0/00	0/00	0/00
20	1/14	12/28	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	11/11	11/21	11/28	12/05	12/11	12/17	12/23	12/31	1/10
32	11/30	12/11	12/19	12/25	12/31	1/07	1/14	1/22	2/04
28	12/10	12/24	1/03	1/13	1/24	2/07	0/00	0/00	0/00
24	12/27	1/12	1/25	2/12	0/00	0/00	0/00	0/00	0/00
20	1/09	1/26	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	328	314	306	298	292	285	278	270	259
32	>365	362	342	332	324	316	308	299	287
28	>365	>365	>365	>365	>365	353	333	319	305
24	>365	>365	>365	>365	>365	>365	>365	>365	348
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)													
Base	Heating Degree Days (1)												
Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	351	264	151	32	2	0	0	0	0	14	115	276	1205
60	244	157	68	4	0	0	0	0	0	3	50	168	694
57	190	110	35	1	0	0	0	0	0	1	26	118	481
55	157	82	21	0	0	0	0	0	0	0	16	89	365
50	86	31	4	0	0	0	0	0	0	0	4	36	161
32	0	0	0	0	0	0	0	0	0	0	0	0	0

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	698	675	912	1057	1296	1414	1532	1516	1407	1239	963	774	13483
55	142	113	220	367	583	724	819	803	717	526	289	150	5453
57	113	85	172	307	521	664	757	741	657	464	239	117	4837
60	75	48	112	221	428	574	664	648	567	373	173	74	3957
65	12	15	41	99	276	424	509	493	417	230	88	27	2631
70	11	4	9	26	140	274	354	338	267	112	33	9	1577

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	485	505	708	848	1075	1195	1306	1290	1190	1014	746	558	485	990	1698	2546	3621	4816	6122	7412	8602	9616	10362	10920
45	340	368	554	698	920	1045	1151	1135	1040	859	596	414	340	708	1262	1960	2880	3925	5076	6211	7251	8110	8706	9120
50	212	240	404	548	765	895	996	980	890	704	449	279	212	452	856	1404	2169	3064	4060	5040	5930	6634	7083	7362
55	117	140	266	398	610	745	841	825	740	550	310	164	117	257	523	921	1531	2276	3117	3942	4682	5232	5542	5706
60	52	60	143	254	455	595	686	670	590	398	186	82	52	112	255	509	964	1559	2245	2915	3505	3903	4089	4171
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	267	285	427	553	756	857	929	932	873	705	473	322	267	552	979	1532	2288	3145	4074	5006	5879	6584	7057	7379

(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.
Complete documentation for the 1971-2000 Normals is available on the internet from:
www.ncdc.noaa.gov/oa/climate/normal/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/normal.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normal/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