

Climatology of the United States

No. 20

1971-2000

Station: JASPER 1 NNW, GA

COOP ID: 094648

Climate Division: GA 2

NWS Call Sign:

Elevation: 1,465 Feet Lat: 34° 30N

Lon: 84° 28W

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	47.1	29.1	38.1	79	1949	10	49.0	1974	-14	1985	20	25.9	1977	834	0	.0	.0	14.4	2.6	18.5	.3
Feb	52.1	31.6	41.9	82	1957	10	48.9	1990	-5	1958	17	33.3	1978	649	0	.0	.0	17.6	1.0	13.9	@
Mar	60.4	39.0	49.7	85	1963	31	57.1	1997	5+	1980	3	43.0	1971	479	4	.0	.0	27.2	.1	7.3	.0
Apr	68.9	45.5	57.2	90	1986	28	62.3	1981	21	1987	1	53.0	1983	244	11	.0	@	29.5	.0	2.2	.0
May	76.0	53.9	65.0	93+	1962	19	69.2	1987	30	1971	4	60.2	1976	87	85	.0	.1	30.9	.0	.1	.0
Jun	82.4	61.7	72.1	101	1964	22	75.6	1986	37	1984	1	67.4	1974	8	219	.0	2.9	30.0	.0	.0	.0
Jul	85.7	65.6	75.7	103	1980	17	80.7	1993	50	1976	7	72.0	1984	0	330	.1	8.0	31.0	.0	.0	.0
Aug	84.6	64.7	74.7	100+	1983	23	78.4	1987	51	1961	16	71.7	1992	1	300	.1	5.3	31.0	.0	.0	.0
Sep	79.2	58.9	69.1	99	1951	1	73.2	1998	30	1967	30	65.3	1975	26	148	.0	1.5	30.0	.0	.0	.0
Oct	69.3	47.4	58.4	94	1954	5	63.9	1984	23	1976	29	51.9	1976	232	25	.0	.0	30.7	.0	1.3	.0
Nov	59.4	39.6	49.5	82+	1961	2	58.9	1985	0	1950	25	40.0	1976	471	5	.0	.0	25.2	@	7.9	.0
Dec	50.4	32.6	41.5	76	1955	25	49.8	1984	-5+	1983	25	32.8	1989	727	0	.0	.0	17.6	1.2	15.1	.1
Ann	68.0	47.5	57.7	103	Jul 1980	17	80.7	Jul 1993	-14	Jan 1985	20	25.9	Jan 1977	3758	1127	.2	17.8	315.1	4.9	66.3	.4

+ 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

(3) Derived from 1971-2000 serially complete daily data

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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: JASPER 1 NNW, GA

COOP ID: 094648

Climate Division: GA 2

NWS Call Sign:

Elevation: 1,465 Feet Lat: 34°30N

Lon: 84°28W

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	6.19	6.03	4.43	1996	27	11.16	1996	1.19	1981	10.9	8.9	4.6	2.1	2.41	2.99	3.80	4.48	5.12	5.77	6.48	7.29	8.33	9.92	11.37
Feb	5.25	5.00	4.08	1982	3	10.93	1990	.72	1978	8.6	7.4	4.0	1.6	1.71	2.21	2.95	3.57	4.17	4.79	5.47	6.27	7.30	8.89	10.36
Mar	6.64	5.56	5.10	1979	4	15.94	1980	1.94	1985	10.3	8.7	4.2	2.1	2.19	2.82	3.74	4.53	5.29	6.07	6.93	7.93	9.22	11.21	13.06
Apr	5.07	4.91	5.19	1957	5	13.57	1979	1.32	1986	8.5	7.0	3.4	1.5	1.50	1.98	2.70	3.33	3.93	4.57	5.26	6.09	7.15	8.81	10.36
May	4.81	4.62	4.35	1976	15	10.15	1976	1.14	1988	9.6	7.5	3.4	1.3	1.64	2.09	2.76	3.32	3.86	4.41	5.02	5.72	6.63	8.03	9.32
Jun	4.64	4.44	3.82	1994	27	12.83	1989	.55	1986	9.9	8.0	3.1	1.3	1.24	1.67	2.35	2.93	3.51	4.12	4.79	5.59	6.64	8.27	9.80
Jul	5.33	5.20	3.95	1992	2	11.44	1984	1.71	1980	10.4	8.4	3.7	1.6	1.63	2.14	2.89	3.54	4.17	4.82	5.54	6.38	7.47	9.17	10.74
Aug	4.79	4.63	5.55	1977	9	9.71	1982	.89	1980	8.5	6.8	3.0	1.3	1.49	1.95	2.62	3.20	3.76	4.35	4.99	5.74	6.71	8.22	9.62
Sep	3.97	3.48	3.70	1962	7	9.88	1971	.50	1984	7.9	6.0	2.4	1.1	.69	1.03	1.61	2.15	2.71	3.31	4.00	4.84	5.95	7.75	9.47
Oct	4.01	3.84	5.38	1997	26	9.12	1997	.12	2000	6.6	5.0	2.6	1.3	.47	.78	1.34	1.90	2.50	3.16	3.94	4.90	6.21	8.37	10.48
Nov	5.04	4.81	2.84	2000	9	9.17	1992	2.05	1990	8.8	7.2	3.5	1.9	2.44	2.88	3.47	3.94	4.38	4.81	5.28	5.81	6.48	7.48	8.38
Dec	5.02	4.67	5.75	1961	12	10.97	1983	1.07	1980	9.8	7.9	3.7	1.6	1.65	2.13	2.83	3.42	3.99	4.58	5.23	5.99	6.96	8.46	9.85
Ann	60.76	63.11	5.75	Dec 1961	12	15.94	Mar 1980	.12	Oct 2000	109.8	88.8	41.6	18.7	43.63	46.96	51.21	54.43	57.30	60.06	62.91	66.06	69.88	75.40	80.18

+ 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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Station: JASPER 1 NNW, GA

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Climate Division: GA 2

NWS Call Sign:

Elevation: 1,465 Feet

Lat: 34° 30N

Lon: 84° 28W

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	.9	.0	#	0	6.5	1987	22	6.5	1987	2	1991	25	#+	2000	.5	.2	.1	@	.0	.2	.0	.0	.0
Feb	.4	.0	#	0	3.0	1980	6	3.0+	1980	5	1971	14	#+	1996	.4	.3	@	.0	.0	.1	.0	.0	.0
Mar	.7	.0	#	0	8.0	1993	13	10.0	1993	3	1980	2	#+	1998	.2	.2	@	@	.0	.1	.0	.0	.0
Apr	.1	.0	#	0	1.5	1987	3	1.5	1987	#	1989	7	#	1989	@	@	.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	#	1993	31	#	1993	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.0	.0	#	0	.5	2000	20	.5	2000	#	1995	15	#	1995	@	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.3	.0	#	0	2.5	1997	29	4.5	1997	5	1997	30	#+	2000	.3	.2	.0	.0	.0	.1	.1	@	.0
Ann	2.4	.0	N/A	N/A	8.0	Mar 1993	13	10.0	Mar 1993	5+	Dec 1997	30	#+	Dec 2000	1.4	.9	.1	@	.0	.5	.1	@	.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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NWS Call Sign:

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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	5/14	5/07	5/02	4/27	4/23	4/19	4/15	4/10	4/03
32	5/01	4/24	4/19	4/14	4/10	4/06	4/02	3/28	3/21
28	4/12	4/05	4/01	3/28	3/24	3/20	3/16	3/11	3/05
24	3/25	3/18	3/13	3/09	3/05	3/01	2/24	2/19	2/12
20	3/18	3/09	3/02	2/24	2/18	2/13	2/07	1/31	1/21
16	3/05	2/25	2/19	2/14	2/09	2/04	1/30	1/24	1/15
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	9/29	10/05	10/09	10/12	10/16	10/19	10/23	10/27	11/02
32	10/09	10/15	10/20	10/24	10/27	10/31	11/04	11/09	11/15
28	10/21	10/28	11/02	11/07	11/11	11/14	11/19	11/24	12/01
24	11/08	11/15	11/20	11/24	11/28	12/02	12/07	12/12	12/19
20	11/16	11/26	12/03	12/09	12/15	12/20	12/26	1/02	1/12
16	12/02	12/10	12/16	12/21	12/26	12/30	1/04	1/10	1/19
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	203	193	186	180	175	169	163	156	146
32	228	218	211	205	199	194	188	181	171
28	262	252	244	237	231	225	218	210	200
24	294	285	279	273	268	263	257	250	241
20	339	324	313	305	297	290	282	272	259
16	>365	341	330	323	316	309	302	294	284

* 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	834	649	479	244	87	8	0	1	26	232	471	727	3758
60	687	509	337	128	29	1	0	0	5	127	335	576	2734
57	600	426	260	78	12	0	0	0	1	82	262	490	2211
55	543	375	214	53	6	0	0	0	0	58	218	433	1900
50	409	250	122	15	0	0	0	0	0	20	129	303	1248
32	89	17	2	0	0	0	0	0	0	0	3	36	147

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	279	292	549	757	1021	1201	1353	1322	1112	817	527	332	9562
55	19	7	49	120	314	511	640	609	422	162	52	16	2921
57	14	2	33	86	257	451	578	547	363	123	36	11	2501
60	8	0	17	46	181	362	485	454	276	75	19	4	1927
65	0	0	4	11	85	219	330	300	148	25	5	0	1127
70	0	0	0	1	27	103	185	159	57	5	0	0	537

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	113	178	357	546	800	985	1129	1095	895	597	328	162	113	291	648	1194	1994	2979	4108	5203	6098	6695	7023	7185
45	58	97	231	397	645	835	974	940	745	446	210	89	58	155	386	783	1428	2263	3237	4177	4922	5368	5578	5667
50	26	45	134	268	491	685	819	785	595	299	121	41	26	71	205	473	964	1649	2468	3253	3848	4147	4268	4309
55	2	15	59	153	342	535	664	630	445	175	54	14	2	17	76	229	571	1106	1770	2400	2845	3020	3074	3088
60	0	0	21	73	205	385	509	475	299	77	16	0	0	0	21	94	299	684	1193	1668	1967	2044	2060	2060
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	53	104	208	331	513	671	782	763	595	361	182	80	53	157	365	696	1209	1880	2662	3425	4020	4381	4563	4643

(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/normal/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.
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 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.

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| <ol style="list-style-type: none">a. Temperature/ Precipitation Tables<ol style="list-style-type: none">1. 1971-2000 Monthly Normals2. Cooperative Summary of the Day3. National Weather Service station records4. 1971-2000 serially complete daily datab. Degree Day Table<ol style="list-style-type: none">1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data | <ol style="list-style-type: none">c. Snow Tables<ol style="list-style-type: none">1. Snow Climatology2. Cooperative Summary of the Dayd. Freeze Data Table
1971-2000 serially complete daily data |
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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