

Climatology of the United States

No. 20

1971-2000

Station: JACKSON, NC

COOP ID: 314456

Climate Division: NC 8

NWS Call Sign:

Elevation: 130 Feet Lat: 36° 23N Lon: 77° 25W

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	49.4	27.5	38.5	80	1952	2	48.2	1974	-8	1985	21	27.0	1977	822	0	.0	.0	15.8	1.7	20.8	.1
Feb	53.5	29.3	41.4	84	1977	26	48.7	1990	-4	1979	10	30.2	1978	662	0	.0	.0	18.3	1.0	17.4	.1
Mar	62.1	37.1	49.6	92	1985	30	53.9	1976	12	1980	4	44.5	1996	479	0	.0	.1	26.7	.1	9.6	.0
Apr	71.3	44.5	57.9	97+	1985	23	64.1	1985	19	1985	10	53.9	1975	225	13	.0	.8	29.5	.0	2.3	.0
May	78.6	54.2	66.4	98	1986	8	72.6	1991	31	1956	9	62.3	1997	63	105	.0	2.2	31.0	.0	.0	.0
Jun	85.9	62.8	74.4	102	1964	10	77.8	1986	43	1967	2	69.3	1979	4	284	@	10.9	30.0	.0	.0	.0
Jul	89.8	67.2	78.5	105	1953	31	82.1	1986	50	1988	2	75.4	1975	0	418	1.2	17.4	31.0	.0	.0	.0
Aug	88.2	65.3	76.8	105+	1988	19	81.8	1980	44	1976	31	72.8	1981	0	363	.8	13.8	31.0	.0	.0	.0
Sep	82.6	58.9	70.8	105	1954	7	74.3	1980	39	1951	30	66.6	1981	15	187	.3	4.9	30.0	.0	.0	.0
Oct	72.3	46.5	59.4	101	1954	6	66.7	1984	22	1952	30	53.8	1976	216	42	.0	.3	30.8	.0	1.3	.0
Nov	63.0	37.7	50.4	86+	1974	3	58.1	1985	15	1970	25	41.8	1976	444	4	.0	.0	27.0	.0	9.1	.0
Dec	53.4	30.8	42.1	81	1991	4	50.2	1971	-1	1983	25	32.4	1989	710	0	.0	.0	19.8	.9	17.6	@
Ann	70.8	46.8	58.9	105+	Aug 1988	19	82.1	Jul 1986	-8	Jan 1985	21	27.0	Jan 1977	3640	1416	2.3	50.4	320.9	3.7	78.1	.2

+ 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

049-A

Climatology 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: JACKSON, NC

COOP ID: 314456

Climate Division: NC 8

NWS Call Sign:

Elevation: 130 Feet Lat: 36°23N

Lon: 77°25W

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	4.15	4.02	2.91	1971	5	8.20	1999	.85	1981	10.8	8.1	3.0	.8	1.65	2.03	2.58	3.03	3.45	3.88	4.35	4.89	5.57	6.62	7.58
Feb	3.29	3.56	2.95	1954	21	6.08	1983	.84	1991	9.3	6.4	2.3	.8	1.18	1.49	1.94	2.31	2.67	3.04	3.44	3.91	4.51	5.43	6.27
Mar	4.26	3.97	2.82	1998	9	8.97	1994	1.54	1986	10.3	7.4	3.4	1.2	1.67	2.07	2.63	3.09	3.53	3.97	4.46	5.02	5.72	6.81	7.80
Apr	3.20	2.66	3.16	1987	16	8.11	1989	.40	1976	8.5	6.1	2.1	.6	.74	1.04	1.51	1.93	2.35	2.79	3.29	3.88	4.66	5.90	7.07
May	4.24	4.10	3.40	1963	21	8.32	1979	.78	1999	10.2	7.3	3.2	1.0	1.32	1.72	2.32	2.84	3.33	3.85	4.41	5.08	5.93	7.27	8.50
Jun	3.71	3.27	3.89	2001	15	8.16	1995	1.59	1983	8.9	6.7	2.3	1.1	1.38	1.73	2.23	2.64	3.04	3.44	3.88	4.39	5.03	6.03	6.94
Jul	4.76	4.30	5.44	1998	17	13.83	1975	1.29	1990	10.3	7.1	3.1	1.4	1.43	1.89	2.56	3.15	3.71	4.30	4.95	5.71	6.69	8.23	9.65
Aug	4.16	3.39	5.80	1955	12	11.51	1986	.10	1980	8.9	6.2	2.9	1.3	.50	.82	1.40	1.98	2.60	3.29	4.09	5.08	6.42	8.64	10.79
Sep	4.39	3.42	12.20	1999	16	25.04	1999	.31	1986	7.6	5.7	2.4	1.1	.48	.82	1.43	2.04	2.69	3.43	4.29	5.36	6.82	9.23	11.58
Oct	3.46	3.41	3.48	1999	18	9.09	1971	.00	2000	6.7	4.3	1.9	1.1	.44	.88	1.46	1.95	2.45	2.97	3.56	4.27	5.20	6.68	8.08
Nov	3.01	2.69	2.78	1985	21	6.35	1985	.66	1981	7.6	4.9	2.1	.8	.79	1.08	1.51	1.90	2.28	2.67	3.11	3.63	4.31	5.38	6.38
Dec	3.22	3.22	2.34	1964	27	7.93	1973	.83	1994	9.5	6.7	2.2	.8	1.02	1.33	1.78	2.17	2.54	2.93	3.36	3.85	4.49	5.49	6.41
Ann	45.85	45.11	12.20	Sep 1999	16	25.04	Sep 1999	.00	Oct 2000	108.6	76.9	30.9	12.0	34.48	36.73	39.59	41.74	43.63	45.46	47.33	49.40	51.89	55.47	58.56

+ 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

Complete documentation available from:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

Climatology 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: JACKSON, NC

COOP ID: 314456

Climate Division: NC 8

NWS Call Sign:

Elevation: 130 Feet

Lat: 36°23N

Lon: 77°25W

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	2.2	.0	#	#	7.5	1973	8	16.8	2000	10	2000	26	2	2000	.9	.6	.3	.2	.0	1.3	.7	.4	.0
Feb	1.8	.0	#	#	6.0	1980	10	15.0	1980	9	1979	19	2	1986	1.0	.7	.4	.1	.0	1.3	.4	.1	.0
Mar	1.1	.0	#	0	11.0	1980	2	16.2	1980	12	1980	3	1	1980	.4	.3	.1	.1	@	.4	.2	.2	.1
Apr	.2	.0	#	0	3.0	1989	11	3.0	1989	3+	1989	11	#+	1989	.1	.1	@	.0	.0	.1	.1	.0	.0
May	.0	.0	#	0	.0	0	0	.0	0	#	1992	17	#	1992	.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	1.0	2000	20	1.0	2000	1	1987	12	#+	2000	@	@	.0	.0	.0	.0	.0	.0	.0
Dec	.8	.0	#	0	5.7	2000	4	6.2	2000	6	2000	4	1	1989	.6	.2	@	@	.0	.7	.1	@	.0
Ann	6.1	.0	N/A	N/A	11.0	Mar 1980	2	16.8	Jan 2000	12	Mar 1980	3	2+	Jan 2000	3.0	1.9	.8	.4	@	3.8	1.5	.7	.1

+ 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

Complete documentation available from:

www.ncdc.noaa.gov/oa/climate/normal/usnormals.html

Climatography of the United States

No. 20 1971-2000

Station: JACKSON, NC

COOP ID: 314456

Climate Division: NC 8

NWS Call Sign:

Elevation: 130 Feet

Lat: 36°23N

Lon: 77°25W

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	5/05	5/01	4/28	4/25	4/23	4/20	4/18	4/15	4/10
32	4/22	4/17	4/14	4/11	4/08	4/05	4/02	3/29	3/24
28	4/14	4/08	4/04	3/31	3/28	3/24	3/21	3/16	3/10
24	3/30	3/23	3/18	3/14	3/10	3/05	3/01	2/24	2/17
20	3/20	3/12	3/06	3/01	2/24	2/19	2/14	2/08	1/31
16	3/09	2/25	2/17	2/10	2/03	1/28	1/20	1/11	12/29
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	10/06	10/10	10/13	10/16	10/19	10/21	10/24	10/27	10/31
32	10/12	10/18	10/22	10/25	10/29	11/01	11/04	11/09	11/14
28	10/23	10/29	11/01	11/05	11/08	11/11	11/14	11/18	11/23
24	11/07	11/13	11/18	11/22	11/25	11/29	12/03	12/07	12/13
20	11/24	12/01	12/07	12/11	12/15	12/20	12/24	12/30	1/06
16	12/04	12/13	12/19	12/25	12/30	1/05	1/11	1/18	1/29
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	197	190	186	182	178	174	170	166	159
32	228	219	213	208	203	198	193	187	178
28	249	240	234	229	224	219	214	208	200
24	286	277	270	265	260	255	249	243	234
20	322	312	305	299	294	288	282	275	265
16	>365	355	339	331	324	318	311	304	294

* 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

Complete documentation available from:

www.ncdc.noaa.gov/oa/climate/normal/usnormals.html

**Climatography
of the United States
No. 20
1971-2000**

Station: JACKSON, NC

COOP ID: 314456

Climate Division: NC 8

NWS Call Sign:

Elevation: 130 Feet Lat: 36° 23N Lon: 77° 25W

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	822	662	479	225	63	4	0	0	15	216	444	710	3640
60	667	522	333	114	17	0	0	0	2	121	308	561	2645
57	584	446	252	67	6	0	0	0	1	79	235	475	2145
55	526	394	204	43	3	0	0	0	0	57	193	418	1838
50	388	273	109	10	0	0	0	0	0	21	107	290	1198
32	69	29	1	0	0	0	0	0	0	0	1	32	132

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	270	291	546	778	1065	1270	1441	1386	1162	850	552	345	9956
55	13	12	35	132	355	580	728	673	472	194	54	18	3266
57	10	8	21	95	296	520	666	611	413	154	36	12	2842
60	0	1	9	53	215	430	573	518	325	103	19	6	2252
65	0	0	0	13	105	284	418	363	187	42	4	0	1416
70	0	0	0	1	37	155	267	217	79	13	0	0	769

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	120	165	345	572	843	1053	1216	1163	951	616	353	172	120	285	630	1202	2045	3098	4314	5477	6428	7044	7397	7569
45	59	94	225	427	689	903	1061	1008	801	462	232	95	59	153	378	805	1494	2397	3458	4466	5267	5729	5961	6056
50	25	45	132	290	534	753	906	853	651	314	139	47	25	70	202	492	1026	1779	2685	3538	4189	4503	4642	4689
55	8	18	63	178	383	604	751	698	501	191	68	22	8	26	89	267	650	1254	2005	2703	3204	3395	3463	3485
60	0	3	30	95	244	454	596	543	356	98	29	3	0	3	33	128	372	826	1422	1965	2321	2419	2448	2451
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	79	116	223	368	543	714	831	798	641	385	225	111	79	195	418	786	1329	2043	2874	3672	4313	4698	4923	5034

(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.

- | | |
|---|---|
| <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 |
|---|---|

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