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: JACKSON SPRINGS 5 WNW, NC **COOP ID: 314464**

Climate Division: NC 5 **NWS Call Sign:** **Elevation: 730 Feet** **Lat: 35˚13N** **Lon: 79˚44W**

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	49.7	30.9	40.3	77	1975	30	50.6	1974	-5+	1985	22	29.4	1977	765	0	.0	.0	16.6	1.6	18.4	.1
Feb	54.1	33.1	43.6	81	1977	27	51.2	1990	3+	1996	5	35.4	1978	600	0	.0	.0	18.0	.7	15.1	.0
Mar	62.7	40.3	51.5	88	1985	30	56.3	1976	10	1980	3	46.2	1971	423	3	.0	.0	27.2	.1	7.7	.0
Apr	72.1	48.3	60.2	93	1985	21	64.0	1977	22	1992	3	55.6	1983	170	26	.0	.5	29.5	.0	1.0	.0
May	79.0	57.0	68.0	98	1953	24	72.6	1991	33	1966	11	64.1	1992	38	131	.0	1.7	31.0	.0	.0	.0
Jun	85.9	65.1	75.5	104	1954	28	80.3	1981	45	1988	4	71.5	1997	2	316	.2	9.6	30.0	.0	.0	.0
Jul	89.2	69.3	79.3	105	1952	29	83.1	1986	52+	1996	4	75.5	1984	0	441	.9	16.1	31.0	.0	.0	.0
Aug	87.4	67.9	77.7	107	1983	22	81.5	1980	50+	1986	30	74.6	1992	0	392	.4	12.0	31.0	.0	.0	.0
Sep	82.1	62.0	72.1	102	1954	7	76.8	1980	38	1967	30	68.5	1994	9	219	.0	4.6	30.0	.0	.0	.0
Oct	72.0	49.7	60.9	100	1954	7	67.6	1984	23	1962	27	55.4	1987	175	47	.0	.2	30.8	.0	.7	.0
Nov	62.4	41.8	52.1	87	1961	1	59.9	1985	15	1970	24	45.0	1976	393	7	.0	.0	27.0	.0	6.2	.0
Dec	52.9	33.9	43.4	79	1984	31	51.3	1984	3+	1983	25	34.9	1989	669	0	.0	.0	19.7	.6	15.3	.0
Ann	70.8	49.9	60.4	107	Aug 1983	22	83.1	Jul 1986	-5+	Jan 1985	22	29.4	Jan 1977	3244	1582	1.5	44.7	321.8	3.0	64.4	.1

\+ 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: 1952-2001

(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	4.62	4.58	3.10	1979	21	8.01	1998	.80	1981
Feb	3.62	3.64	3.06	1998	17	6.16	1995	1.24	1978
Mar	4.59	4.18	3.75	1998	19	8.34	1977	.89	1985
Apr	3.19	3.04	3.82	1993	6	8.54	1973	.23	1986
May	3.52	2.94	3.75	1957	12	6.77	1984	1.02	1997
Jun	4.24	3.61	3.77	1972	21	12.06	1976	.74	1990
Jul	5.10	4.52	9.15	1956	20	14.23	1975	1.42	1976
Aug	4.39	3.71	4.70	1964	31	13.09	1985	1.23	1997
Sep	4.32	3.81	4.98	1998	4	15.15	1999	.09	1985
Oct	3.76	3.45	4.05	1970	31	10.94	1990	.00	2000
Nov	3.32	3.11	4.02	1979	3	8.81	1992	.39	1973
Dec	3.30	2.99	1.72	1970	17	8.06	1972	1.08	1988
Ann	47.97	48.11	9.15	Jul 1956	20	15.15	Sep 1999	.00	Oct 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	12.0	7.7	3.2	1.2
Feb	10.0	6.4	2.5	.8
Mar	10.7	7.4	3.2	1.1
Apr	8.5	5.7	2.3	.8
May	9.8	6.3	2.2	1.0
Jun	9.8	6.6	2.9	1.2
Jul	11.0	7.7	3.2	1.6
Aug	10.3	6.8	3.1	1.3
Sep	8.9	5.6	2.6	1.2
Oct	7.6	4.9	2.2	1.5
Nov	9.3	5.5	2.3	1.0
Dec	10.8	6.7	2.3	.7
Ann	118.7	77.3	32.0	13.4

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	1.71	2.14	2.76	3.28	3.78	4.29	4.84	5.47	6.29	7.54	8.69
Feb	1.31	1.65	2.14	2.55	2.94	3.34	3.78	4.29	4.93	5.93	6.84
Mar	1.58	2.01	2.65	3.18	3.69	4.22	4.79	5.46	6.32	7.65	8.87
Apr	.49	.76	1.23	1.67	2.12	2.62	3.19	3.89	4.83	6.36	7.82
May	1.16	1.49	1.98	2.40	2.80	3.21	3.67	4.20	4.88	5.94	6.92
Jun	.90	1.29	1.92	2.48	3.05	3.65	4.33	5.15	6.22	7.94	9.56
Jul	1.22	1.70	2.45	3.11	3.77	4.47	5.25	6.18	7.40	9.33	11.14
Aug	1.21	1.63	2.26	2.81	3.35	3.92	4.55	5.29	6.26	7.78	9.19
Sep	.38	.68	1.25	1.85	2.51	3.26	4.15	5.27	6.81	9.38	11.91
Oct	.46	.93	1.56	2.10	2.64	3.21	3.86	4.63	5.66	7.29	8.84
Nov	.88	1.19	1.67	2.09	2.51	2.95	3.43	4.01	4.75	5.93	7.04
Dec	1.06	1.38	1.84	2.23	2.61	3.01	3.44	3.94	4.59	5.60	6.54
Ann	37.06	39.24	42.00	44.06	45.88	47.62	49.41	51.37	53.73	57.12	60.02

\+ 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: 1952-2001
(3) Derived from 1971-2000 serially complete daily data

Complete documentation available from:
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Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	3.1	.5	#	0
Feb	1.8	.5	#	0
Mar	1.4	.0	#	0
Apr	.0	.0	0	0
May	.0	.0	0	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	.0	.0	0	0
Nov	.0	.0	0	0
Dec	.8	.0	#	0
Ann	7.1	1.0	N/A	N/A

Extremes (2)

Month	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year
Jan	16.0	2000	25	19.5	2000	16	2000	25	1	2000
Feb	4.0	1979	19	8.2	1979	4	1980	7	#+	1985
Mar	6.0	1983	25	6.0+	1983	6+	1983	25	1	1980
Apr	.0	0	0	.0	0	0	0	0	0	0
May	.0	0	0	.0	0	0	0	0	0	0
Jun	.0	0	0	.0	0	0	0	0	0	0
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	.0	0	0	.0	0	0	0	0	0	0
Oct	.0	0	0	.0	0	0	0	0	0	0
Nov	.0	0	0	.0	0	0	0	0	0	0
Dec	4.9	1973	17	4.9	1973	4	1971	4	#+	1997
Ann	16.0	Jan 2000	25	19.5	Jan 2000	16	Jan 2000	25	1+	Jan 2000

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	1.0	.8	.3	.1	.1
Feb	1.1	.8	.3	.0	.0
Mar	.4	.4	.3	.1	.0
Apr	.0	.0	.0	.0	.0
May	.0	.0	.0	.0	.0
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.0	.0	.0	.0	.0
Oct	.0	.0	.0	.0	.0
Nov	.0	.0	.0	.0	.0
Dec	.3	.2	.1	.0	.0
Ann	2.8	2.2	1.0	.2	.1

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.1	.1	.0	.0
Feb	.3	.1	.0	.0
Mar	.2	.2	.1	.0
Apr	.0	.0	.0	.0
May	.0	.0	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.0	.0	.0	.0
Nov	.0	.0	.0	.0
Dec	@	@	.0	.0
Ann	.6	.4	.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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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	4/30	4/25	4/21	4/18	4/14	4/11	4/08	4/04	3/30
32	4/16	4/11	4/08	4/04	4/01	3/29	3/26	3/23	3/17
28	4/08	3/31	3/26	3/22	3/18	3/13	3/09	3/04	2/24
24	3/25	3/18	3/13	3/08	3/04	2/28	2/23	2/18	2/11
20	3/07	2/28	2/22	2/18	2/13	2/09	2/04	1/30	1/23
16	3/02	2/20	2/13	2/07	2/01	1/26	1/18	1/06	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	10/06	10/12	10/17	10/21	10/24	10/28	11/01	11/06	11/12
32	10/17	10/24	10/28	11/01	11/05	11/09	11/13	11/18	11/24
28	11/01	11/07	11/11	11/15	11/19	11/22	11/26	12/01	12/07
24	11/13	11/20	11/26	11/30	12/04	12/09	12/13	12/18	12/26
20	11/28	12/05	12/10	12/14	12/19	12/23	12/27	1/01	1/09
16	12/14	12/23	12/31	1/06	1/12	1/19	1/26	2/07	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	220	210	203	198	192	187	181	174	165
32	243	234	228	222	217	212	206	200	191
28	274	264	257	251	245	240	234	226	216
24	303	293	286	280	275	269	263	256	246
20	337	326	318	312	306	301	295	288	278
16	>365	>365	>365	>365	347	333	323	312	299

***** 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	765	600	423	170	38	2	0	0	9	175	393	669	3244
60	618	461	282	78	7	0	0	0	1	88	261	522	2318
57	530	383	208	41	2	0	0	0	0	53	194	435	1846
55	473	332	166	25	0	0	0	0	0	35	155	380	1566
50	341	216	83	5	0	0	0	0	0	10	79	256	990
32	50	13	0	0	0	0	0	0	0	0	0	23	86

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	308	337	603	846	1116	1305	1464	1415	1200	895	604	377	10470
55	17	12	56	181	403	615	751	702	510	217	69	20	3553
57	12	8	36	137	343	555	689	640	450	173	47	14	3104
60	7	1	17	83	255	465	596	547	361	115	25	7	2479
65	0	0	3	26	131	316	441	392	219	47	7	0	1582
70	0	0	0	4	49	179	286	244	103	13	0	0	878

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	130	186	370	601	865	1057	1208	1160	954	647	380	185	130	316	686	1287	2152	3209	4417	5577	6531	7178	7558	7743
45	65	106	246	455	710	907	1053	1005	804	493	256	101	65	171	417	872	1582	2489	3542	4547	5351	5844	6100	6201
50	33	52	148	316	555	757	898	850	654	344	154	50	33	85	233	549	1104	1861	2759	3609	4263	4607	4761	4811
55	7	17	72	195	402	607	743	695	504	215	77	23	7	24	96	291	693	1300	2043	2738	3242	3457	3534	3557
60	0	4	28	103	258	459	588	540	358	113	32	3	0	4	32	135	393	852	1440	1980	2338	2451	2483	2486
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	80	121	229	379	559	725	831	798	640	401	226	112	80	201	430	809	1368	2093	2924	3722	4362	4763	4989	5101

(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