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: PARIS 2 SE, TN **COOP ID: 406977**

Climate Division: TN 4 **NWS Call Sign:** **Elevation: 443 Feet** **Lat: 36˚17N** **Lon: 88˚18W**

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	43.1	24.5	33.8	80	1952	1	41.8	1990	-19	1963	24	20.8	1977	967	0	.0	.0	9.5	6.5	23.3	.8
Feb	49.0	27.7	38.4	82	1962	13	46.7	1976	-22	1951	2	25.3	1978	746	0	.0	.0	13.7	3.8	18.8	.3
Mar	59.2	36.5	47.9	89	1982	19	54.9	1973	0	1960	5	40.6	1996	534	3	.0	.0	23.9	.3	12.1	.0
Apr	69.1	45.0	57.1	89+	1955	18	63.8	1981	23	1973	11	51.2	1983	256	18	.0	.0	28.7	.0	3.2	.0
May	76.8	54.3	65.6	95+	1962	18	71.2	1987	31+	1963	1	60.6	1994	93	110	.0	.4	31.0	.0	@	.0
Jun	84.4	63.1	73.8	105+	1952	29	77.5	1971	42+	1956	3	69.7	1974	4	266	.1	5.7	30.0	.0	.0	.0
Jul	88.0	67.4	77.7	108	1952	1	82.0	1980	49+	1963	11	74.2	1996	0	394	.4	12.9	31.0	.0	.0	.0
Aug	87.2	65.5	76.4	106	1964	5	82.8	1983	42	1986	30	71.6	1992	2	354	.3	10.1	31.0	.0	.0	.0
Sep	80.7	58.4	69.6	106	1954	6	74.5	1980	35+	1949	30	65.1	1994	42	179	@	4.0	30.0	.0	.0	.0
Oct	69.9	46.1	58.0	98	1953	2	65.9	1971	21	1957	28	52.0	1987	251	34	.0	@	30.7	.0	2.0	.0
Nov	58.0	37.3	47.7	85	1950	1	53.4	1985	-2	1950	25	39.1	1976	523	2	.0	.0	21.9	.2	10.7	.0
Dec	47.7	28.7	38.2	80	1951	31	46.9	1984	-12+	1989	22	26.2	1989	831	0	.0	.0	13.9	3.3	19.8	.3
Ann	67.8	46.2	57.0	108	Jul 1952	1	82.8	Aug 1983	-22	Feb 1951	2	20.8	Jan 1977	4249	1360	.8	33.1	295.3	14.1	89.9	1.4

\+ 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/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

Month	Means/ Medians(1) Mean	Means/ Medians(1) Median	Extremes Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year
Jan	4.23	4.28	4.43	1951	14	9.40	1999	.79	1987
Feb	4.40	3.90	4.05	1989	14	11.85	1990	1.44	1978
Mar	5.31	4.77	7.29	1997	2	14.97	1997	1.77	1987
Apr	4.73	4.68	4.20	1968	4	9.92	1998	1.32	1976
May	5.02	4.79	3.41	1983	19	11.81	1983	1.39	1977
Jun	4.58	3.98	6.60	1998	5	12.79	1998	.17	1988
Jul	4.51	3.84	4.50	1986	27	10.98	1972	1.02	1997
Aug	3.76	2.86	5.05	1971	22	11.29	1974	.10	1999
Sep	3.90	3.59	4.20	1990	22	9.36	1996	.28	1998
Oct	3.35	3.61	3.43	2001	14	9.40	1984	.55	2000
Nov	4.86	4.23	4.68	2001	29	9.89	1988	1.47	1998
Dec	5.03	3.92	5.05	1990	22	16.22	1990	.67	1976
Ann	53.68	53.78	7.29	Mar 1997	2	16.22	Dec 1990	.10	Aug 1999

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.3	7.3	3.0	1.2
Feb	9.3	6.6	2.8	1.2
Mar	11.1	8.4	3.7	1.2
Apr	10.1	7.2	3.5	1.3
May	11.3	8.6	3.7	1.3
Jun	9.4	7.0	3.1	1.0
Jul	8.7	6.9	3.0	1.3
Aug	7.1	5.2	2.3	.9
Sep	8.2	5.7	2.5	1.2
Oct	7.5	5.1	2.8	.8
Nov	10.0	7.2	3.5	1.6
Dec	10.0	7.0	2.9	1.6
Ann	113.0	82.2	36.8	14.6

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	1.04	1.44	2.06	2.61	3.15	3.72	4.36	5.12	6.12	7.70	9.17
Feb	1.52	1.93	2.54	3.05	3.54	4.04	4.59	5.24	6.06	7.33	8.50
Mar	1.56	2.07	2.82	3.48	4.12	4.78	5.51	6.38	7.50	9.24	10.87
Apr	1.60	2.05	2.70	3.26	3.79	4.33	4.93	5.63	6.52	7.91	9.19
May	1.94	2.41	3.07	3.62	4.14	4.68	5.25	5.92	6.77	8.07	9.26
Jun	1.12	1.55	2.22	2.81	3.40	4.02	4.72	5.54	6.62	8.34	9.94
Jul	1.19	1.62	2.27	2.85	3.41	4.00	4.66	5.44	6.45	8.05	9.54
Aug	.39	.67	1.19	1.72	2.28	2.91	3.66	4.59	5.86	7.96	10.01
Sep	.89	1.26	1.83	2.34	2.85	3.39	4.00	4.73	5.68	7.20	8.62
Oct	.88	1.19	1.68	2.11	2.53	2.97	3.46	4.05	4.81	6.00	7.13
Nov	1.63	2.09	2.76	3.33	3.88	4.45	5.07	5.80	6.73	8.17	9.50
Dec	1.08	1.54	2.28	2.95	3.62	4.34	5.15	6.11	7.39	9.43	11.35
Ann	38.52	41.47	45.23	48.09	50.62	53.07	55.59	58.38	61.76	66.66	70.89

\+ 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	3.4	.9	#	#	7.1	1982	13	18.9	1978	9	1978	20	4	1978	1.8	1.0	.3	.1	.0	4.7	2.4	1.0	.0
Feb	3.5	1.1	#	#	8.1	1979	7	16.0	1979	10	1979	10	3	1978	1.3	.8	.4	.1	.0	2.8	1.5	.5	.1
Mar	.7	.0	#	0	5.0	1987	31	5.0	1987	3	1980	2	#+	1999	.5	.3	@	@	.0	.3	@	.0	.0
Apr	.0	.0	0	0	.7	1977	6	.7	1977	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	.2	.0	#	0	1.5	1971	24	3.3	1976	1	1976	29	#+	1995	.1	.1	.0	.0	.0	.1	.0	.0	.0
Dec	.4	#	#	#	3.0	1983	28	4.8	1983	1+	2000	31	#+	2000	.3	.1	@	.0	.0	.2	.0	.0	.0
Ann	8.2	2.0	N/A	N/A	8.1	Feb 1979	7	18.9	Jan 1978	10	Feb 1979	10	4	Jan 1978	4.0	2.3	.7	.2	.0	8.1	3.9	1.5	.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

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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	5/01	4/27	4/23	4/20	4/17	4/15	4/12	4/08	4/03
32	4/22	4/18	4/15	4/12	4/10	4/08	4/05	4/02	3/29
28	4/14	4/09	4/06	4/03	3/31	3/28	3/25	3/22	3/17
24	4/02	3/26	3/22	3/18	3/14	3/11	3/07	3/02	2/24
20	3/17	3/11	3/06	3/02	2/26	2/23	2/19	2/14	2/07
16	3/09	3/01	2/24	2/19	2/15	2/11	2/06	2/01	1/25

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	10/02	10/06	10/10	10/12	10/15	10/17	10/20	10/23	10/27
32	10/10	10/16	10/20	10/23	10/26	10/29	11/01	11/05	11/11
28	10/26	10/31	11/04	11/07	11/10	11/13	11/16	11/19	11/24
24	11/04	11/10	11/14	11/18	11/21	11/24	11/28	12/02	12/08
20	11/12	11/19	11/24	11/28	12/03	12/07	12/11	12/16	12/23
16	11/19	11/29	12/06	12/12	12/18	12/24	12/30	1/06	1/17

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	191	187	183	180	176	173	168	162
32	217	211	206	202	198	195	191	186	180
28	240	234	230	226	223	219	216	212	206
24	276	268	261	256	251	246	241	235	226
20	304	295	289	284	278	273	268	262	253
16	338	325	316	309	303	297	290	282	271

***** 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	967	746	534	256	93	4	0	2	42	251	523	831	4249
60	812	607	390	146	36	0	0	0	12	147	384	679	3213
57	727	529	310	95	17	0	0	0	5	99	305	593	2680
55	667	476	262	68	10	0	0	0	2	73	257	535	2350
50	524	351	162	23	2	0	0	0	0	29	158	399	1648
32	148	62	8	0	0	0	0	0	0	0	6	80	304

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	204	240	500	751	1040	1252	1417	1376	1127	806	475	272	9460
55	10	11	41	129	337	562	704	663	439	166	36	15	3113
57	8	7	28	96	283	502	642	601	382	130	24	11	2714
60	0	1	15	57	208	412	549	508	299	85	12	3	2149
65	0	0	3	18	110	266	394	354	179	34	2	0	1360
70	0	0	0	3	44	137	243	213	89	10	0	0	739

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	75	132	298	524	799	1019	1175	1129	893	570	273	117	75	207	505	1029	1828	2847	4022	5151	6044	6614	6887	7004
45	37	69	195	386	644	869	1020	974	743	417	179	60	37	106	301	687	1331	2200	3220	4194	4937	5354	5533	5593
50	14	28	113	257	491	719	865	819	593	279	100	31	14	42	155	412	903	1622	2487	3306	3899	4178	4278	4309
55	1	10	60	155	341	569	710	664	447	167	52	8	1	11	71	226	567	1136	1846	2510	2957	3124	3176	3184
60	0	0	27	77	208	419	555	510	305	82	18	0	0	0	27	104	312	731	1286	1796	2101	2183	2201	2201
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	43	87	188	325	516	695	812	777	588	353	162	68	43	130	318	643	1159	1854	2666	3443	4031	4384	4546	4614

(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