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: RIPLEY, TN **COOP ID: 407710**

Climate Division: TN 4 **NWS Call Sign:** **Elevation: 335 Feet** **Lat: 35˚45N** **Lon: 89˚32W**

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	45.3	27.9	36.6	77	1972	25	44.8	1989	-10	1985	20	24.4	1977	881	0	.0	.0	11.9	4.2	21.6	.5
Feb	51.3	31.4	41.4	80	1982	24	49.7	1976	1	1996	3	29.3	1978	661	0	.0	.0	15.5	2.5	15.6	.0
Mar	60.7	40.0	50.4	86	1986	30	56.4	1973	10	1980	2	43.8	1978	459	5	.0	.0	25.7	.3	7.4	.0
Apr	70.7	48.4	59.6	93	1987	21	65.4	1981	28	1971	6	53.3	1983	198	34	.0	.1	29.4	.0	1.0	.0
May	79.3	57.1	68.2	96	1977	31	73.4	1987	36	1963	1	62.0	1976	64	162	.0	1.7	31.0	.0	.0	.0
Jun	87.1	65.4	76.3	100+	1969	30	80.1	1998	47	1972	1	71.9	1974	1	339	.1	12.3	30.0	.0	.0	.0
Jul	90.6	69.5	80.1	105	1980	12	84.6	1980	49	1968	5	77.6	1971	0	466	1.0	19.9	31.0	.0	.0	.0
Aug	89.3	67.6	78.5	103+	1980	11	83.9	1983	52+	1965	30	73.9	1992	0	416	.6	16.6	31.0	.0	.0	.0
Sep	83.2	60.7	72.0	100	1980	10	76.4	1986	35	1965	26	66.7	1974	19	228	@	6.7	30.0	.0	.0	.0
Oct	73.5	49.3	61.4	93	1986	3	69.2	1971	27+	1976	28	55.9	1987	172	60	.0	.3	30.8	.0	.6	.0
Nov	60.2	40.4	50.3	85	1984	1	56.0	1985	12	1976	29	42.6	1976	447	5	.0	.0	24.3	@	7.1	.0
Dec	49.5	31.2	40.4	79	1982	4	49.6	1984	-8	1989	22	27.9	2000	765	0	.0	.0	16.1	2.3	17.8	.2
Ann	70.1	49.1	59.6	105	Jul 1980	12	84.6	Jul 1980	-10	Jan 1985	20	24.4	Jan 1977	3667	1715	1.7	57.6	306.7	9.3	71.1	.7

\+ 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: 1962-2001

(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	3.85	3.29	2.80	1978	8	9.55	1989	.80	2000
Feb	3.93	3.55	3.23	1989	13	10.09	1989	.80	1978
Mar	5.39	4.54	6.00	1997	2	16.54	1997	1.62	1982
Apr	4.81	4.41	5.56	1968	4	11.02	1991	1.77	1988
May	5.34	4.58	3.80	1978	7	12.54	1983	1.07	1994
Jun	4.41	4.23	3.90	1979	24	10.36	1997	.31	1988
Jul	4.21	4.17	4.07	1967	6	11.32	1998	.85	1980
Aug	2.48	2.14	2.80	1997	13	7.68	1997	.11	1996
Sep	3.70	3.79	5.51	1970	19	8.90	1977	.21	1998
Oct	3.51	3.16	4.00	2001	10	9.57	1984	.69	1971
Nov	5.45	5.07	4.25	1973	28	12.77	1973	1.86	1998
Dec	5.40	4.34	4.53	1987	24	14.77	1987	1.21	1976
Ann	52.48	51.75	6.00	Mar 1997	2	16.54	Mar 1997	.11	Aug 1996

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	8.5	6.9	2.6	1.1
Feb	7.2	6.1	2.6	1.2
Mar	8.6	7.9	3.7	1.6
Apr	8.6	7.7	3.5	1.4
May	8.9	7.9	3.6	1.8
Jun	7.5	6.3	3.0	1.4
Jul	6.9	5.9	2.8	1.3
Aug	4.6	4.1	1.8	.8
Sep	6.7	5.5	2.6	1.2
Oct	6.1	5.1	2.6	1.0
Nov	8.2	7.0	3.7	1.9
Dec	8.2	6.8	3.3	1.9
Ann	90.0	77.2	35.8	16.6

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	.90	1.26	1.83	2.33	2.83	3.36	3.96	4.67	5.60	7.08	8.48
Feb	1.02	1.39	1.96	2.46	2.96	3.48	4.06	4.75	5.65	7.07	8.40
Mar	1.44	1.95	2.73	3.41	4.09	4.79	5.57	6.50	7.71	9.61	11.38
Apr	1.68	2.13	2.79	3.35	3.88	4.43	5.03	5.72	6.61	7.99	9.26
May	1.45	1.96	2.73	3.40	4.06	4.76	5.53	6.44	7.63	9.49	11.23
Jun	1.24	1.66	2.29	2.84	3.38	3.94	4.57	5.30	6.26	7.75	9.15
Jul	.98	1.37	1.99	2.54	3.09	3.67	4.32	5.10	6.12	7.74	9.27
Aug	.31	.51	.86	1.20	1.57	1.98	2.45	3.03	3.83	5.13	6.39
Sep	.66	.99	1.53	2.04	2.55	3.11	3.75	4.52	5.54	7.19	8.77
Oct	.83	1.15	1.67	2.13	2.58	3.07	3.61	4.25	5.10	6.45	7.71
Nov	1.80	2.31	3.07	3.72	4.34	4.98	5.69	6.51	7.56	9.20	10.72
Dec	1.14	1.63	2.43	3.15	3.87	4.64	5.52	6.56	7.94	10.15	12.24
Ann	39.02	41.67	45.05	47.60	49.85	52.01	54.24	56.69	59.66	63.93	67.61

\+ 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: 1962-2001
(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	1.5	.4	#	#
Feb	1.2	#	#	0
Mar	.6	.0	#	0
Apr	#	.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
Nov	.1	.0	#	0
Dec	.0	#	#	0
Ann	3.4	.4	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	4.5	1982	13	9.0	1978	6	1988	6	1	1977
Feb	8.0	1979	7	12.3	1978	8	1979	7	1	1979
Mar	3.0	1971	26	6.3	1971	3	1971	26	#+	1999
Apr	#	1973	10	#+	1973	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	#	1989	20	#	1989	0	0	0	0	0
Nov	1.0	1971	23	1.3	1976	1	1976	14	#+	1996
Dec	.5	1974	1	.5	1974	1	1974	1	#+	2000
Ann	8.0	Feb 1979	7	12.3	Feb 1978	8	Feb 1979	7	1+	Feb 1979

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.9	.6	.1	.0	.0
Feb	.8	.7	.2	.1	.0
Mar	.3	.2	.1	.0	.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	.2	@	.0	.0	.0
Dec	@	.0	.0	.0	.0
Ann	2.2	1.5	.4	.1	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.3	.1	.0	.0
Feb	.4	@	.0	.0
Mar	.2	.1	.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	.1	.0	.0	.0
Dec	@	.0	.0	.0
Ann	1.0	.2	.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	4/20	4/16	4/12	4/10	4/07	4/04	4/02	3/29	3/25
32	4/14	4/09	4/05	4/02	3/30	3/26	3/23	3/19	3/14
28	3/30	3/23	3/18	3/14	3/10	3/06	3/02	2/25	2/19
24	3/16	3/10	3/05	3/02	2/26	2/22	2/19	2/14	2/08
20	3/06	2/27	2/22	2/17	2/13	2/09	2/05	1/31	1/24
16	2/28	2/20	2/15	2/10	2/05	1/31	1/26	1/18	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	10/09	10/14	10/17	10/20	10/23	10/25	10/28	10/31	11/05
32	10/21	10/26	10/29	11/01	11/03	11/06	11/09	11/12	11/17
28	10/29	11/04	11/08	11/12	11/16	11/19	11/23	11/27	12/03
24	11/09	11/15	11/20	11/24	11/28	12/02	12/06	12/11	12/18
20	11/18	11/27	12/03	12/08	12/13	12/18	12/23	12/29	1/07
16	12/05	12/13	12/20	12/26	12/31	1/06	1/12	1/21	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	215	209	205	201	198	194	191	187	181
32	239	232	227	222	218	214	210	204	197
28	276	267	261	255	250	244	239	232	223
24	302	292	286	280	274	269	263	257	247
20	336	324	316	309	302	295	288	280	268
16	>365	>365	>365	337	327	318	311	303	292

***** 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)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	881	661	459	198	64	1	0	0	19	172	447	765	3667
60	726	529	320	103	22	0	0	0	4	88	313	620	2725
57	642	451	245	62	10	0	0	0	1	53	241	533	2238
55	583	400	202	41	6	0	0	0	0	36	199	477	1944
50	443	285	115	12	0	0	0	0	0	11	113	348	1327
32	100	40	3	0	0	0	0	0	0	0	3	61	207

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	242	303	571	827	1121	1328	1489	1439	1199	912	551	318	10300
55	13	19	57	178	414	638	776	726	509	235	56	22	3643
57	9	13	39	139	356	578	714	664	450	190	39	16	3207
60	0	7	20	90	275	488	621	571	363	131	20	9	2595
65	0	0	5	34	162	339	466	416	228	60	5	0	1715
70	0	0	0	9	79	198	311	266	119	21	0	0	1003

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	91	165	360	609	899	1112	1268	1208	966	669	334	133	91	256	616	1225	2124	3236	4504	5712	6678	7347	7681	7814
45	44	96	241	465	744	962	1113	1053	816	514	221	70	44	140	381	846	1590	2552	3665	4718	5534	6048	6269	6339
50	22	46	144	329	589	812	958	898	666	368	132	36	22	68	212	541	1130	1942	2900	3798	4464	4832	4964	5000
55	1	17	74	206	434	662	803	743	517	235	63	10	1	18	92	298	732	1394	2197	2940	3457	3692	3755	3765
60	0	1	32	114	289	512	648	588	372	132	26	0	0	1	33	147	436	948	1596	2184	2556	2688	2714	2714
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	53	99	207	373	590	762	870	834	646	422	191	79	53	152	359	732	1322	2084	2954	3788	4434	4856	5047	5126

(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/normals/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.
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