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: SELMER, TN **COOP ID: 408160**

Climate Division: TN 4 **NWS Call Sign:** **Elevation: 470 Feet** **Lat: 35˚10N** **Lon: 88˚36W**

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	47.4	27.5	37.5	78+	1960	13	45.0	1990	-21	1966	30	24.4	1977	855	0	.0	.0	13.6	3.7	21.4	.3
Feb	53.0	30.7	41.9	82	1962	13	50.1	1990	-11	1971	9	30.1	1978	649	0	.0	.0	16.9	2.0	16.9	.2
Mar	62.5	39.0	50.8	88	1963	31	56.8	1973	7	1980	3	44.6	1978	447	6	.0	.0	26.4	.2	9.8	.0
Apr	72.0	46.2	59.1	92	1987	22	64.9	1999	23+	1962	3	53.6	1983	200	23	.0	.2	29.5	.0	3.2	.0
May	79.3	55.4	67.4	96	1962	21	72.6	1987	29	1976	4	60.8	1976	70	142	.0	1.6	31.0	.0	.1	.0
Jun	86.7	63.5	75.1	101	1973	25	79.9	1998	39+	1966	1	70.7	1974	3	304	@	10.7	30.0	.0	.0	.0
Jul	90.3	67.4	78.9	105+	1980	16	82.7	1980	47	1970	6	75.0	1972	0	430	.8	18.5	31.0	.0	.0	.0
Aug	89.6	65.5	77.6	104+	1986	1	81.4	1980	45	1968	28	73.4	1992	0	388	.8	16.7	31.0	.0	.0	.0
Sep	83.6	58.9	71.3	100+	1990	7	77.0	1998	30	1967	29	65.9	1974	26	213	.1	6.9	30.0	.0	.0	.0
Oct	73.5	46.4	60.0	94	1963	13	65.0	1984	22+	1965	25	53.6	1976	200	45	.0	.2	30.9	.0	3.1	.0
Nov	61.5	38.4	50.0	86+	1984	1	56.6	1985	5	1970	24	39.8	1976	454	3	.0	.0	25.0	.1	10.5	.0
Dec	51.3	31.0	41.2	77+	1964	25	50.2	1984	-14+	1963	24	31.1	1989	739	0	.0	.0	17.6	1.8	17.8	.2
Ann	70.9	47.5	59.2	105+	Jul 1980	16	82.7	Jul 1980	-21	Jan 1966	30	24.4	Jan 1977	3643	1554	1.7	54.8	312.9	7.8	82.8	.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: 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	5.02	4.53	3.29	1979	1	11.49	1974	.61	1986
Feb	4.42	3.94	3.98	1990	3	10.28	1990	.63	1978
Mar	5.88	5.24	4.40	1975	13	13.97	1980	2.52	1986
Apr	5.17	4.42	4.75	1963	30	11.00	1998	1.03	1986
May	6.10	6.07	5.00	1983	19	12.55	1983	1.43	2000
Jun	4.30	3.51	3.02	1989	13	12.12	1989	.00	1988
Jul	4.65	4.64	4.40	1972	16	10.68+	1996	1.47	1999
Aug	2.78	2.56	5.52	1950	25	10.13	1997	.34	1999
Sep	4.35	4.24	4.35	1958	20	12.59	1977	.41	1998
Oct	3.32	2.86	5.71	1959	8	7.00	1976	.00	2000
Nov	5.68	5.40	6.05	1999	2	9.86	1979	1.44	1998
Dec	5.79	5.10	5.01	1993	4	12.49	1978	.95	1980
Ann	57.46	54.68	6.05	Nov 1999	2	13.97	Mar 1980	.00+	Oct 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.7	8.0	3.7	1.6
Feb	9.0	6.8	3.1	1.1
Mar	10.8	8.3	3.9	1.7
Apr	9.6	7.1	3.6	1.7
May	10.4	8.1	3.8	2.0
Jun	8.8	6.6	3.1	1.4
Jul	8.8	6.5	3.1	1.5
Aug	6.8	4.7	1.7	.8
Sep	7.5	5.6	2.7	1.3
Oct	6.6	4.9	2.7	1.0
Nov	9.5	7.1	3.8	1.9
Dec	10.6	7.9	3.7	1.7
Ann	109.1	81.6	38.9	17.7

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	1.29	1.77	2.49	3.14	3.77	4.44	5.18	6.06	7.22	9.03	10.73
Feb	1.18	1.60	2.24	2.80	3.35	3.93	4.57	5.33	6.32	7.88	9.33
Mar	2.33	2.87	3.64	4.28	4.89	5.50	6.16	6.93	7.90	9.39	10.74
Apr	1.64	2.14	2.86	3.48	4.08	4.71	5.39	6.19	7.22	8.82	10.30
May	2.24	2.81	3.64	4.32	4.98	5.65	6.38	7.23	8.31	9.98	11.50
Jun	.93	1.54	2.26	2.83	3.38	3.93	4.54	5.26	6.17	7.60	8.91
Jul	1.56	2.00	2.64	3.19	3.72	4.26	4.85	5.55	6.44	7.82	9.09
Aug	.42	.66	1.06	1.44	1.84	2.28	2.78	3.39	4.22	5.56	6.84
Sep	.53	.88	1.49	2.10	2.74	3.45	4.28	5.31	6.70	9.00	11.22
Oct	.77	1.24	1.79	2.23	2.64	3.06	3.51	4.05	4.73	5.79	6.76
Nov	2.12	2.65	3.42	4.05	4.66	5.27	5.94	6.72	7.71	9.23	10.62
Dec	1.66	2.21	3.04	3.76	4.47	5.20	6.01	6.97	8.21	10.15	11.96
Ann	41.63	44.72	48.66	51.65	54.30	56.85	59.49	62.40	65.92	71.02	75.42

+ 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)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	.6	.0	#	0
Feb	1.5	.0	#	0
Mar	.1	.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	.0	.0	#	0
Dec	.3	.0	#	0
Ann	2.5	.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	8.0	1988	7	8.0	1988	8	1988	7	#+	2000
Feb	8.0	1971	8	11.0	1971	8	1971	9	1	1971
Mar	2.0	1971	4	2.0	1971	#	1996	8	#	1996
Apr	#	1977	5	#	1977	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	19	#	1989	0	0	0	0	0
Nov	.5	1976	29	.5	1976	1	1976	29	#+	1976
Dec	2.0	1985	20	2.5	1985	1+	2000	31	#+	2000
Ann	8.0+	Jan 1988	7	11.0	Feb 1971	8+	Jan 1988	7	1	Feb 1971

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.8	.6	.1	.1	.0
Feb	.4	.3	.3	.1	.0
Mar	.1	.1	.0	.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	.1	.0	.0	.0	.0
Dec	.2	.2	.0	.0	.0
Ann	1.6	1.2	.4	.2	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.6	.1	.1	.0
Feb	.1	.1	.1	.0
Mar	.0	.0	.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
Dec	@	.0	.0	.0
Ann	.7	.2	.2	.0

+ Also occurred on an earlier date(s) #Denotes trace amounts

(1) Derived from Snow Climatology and 1971-2000 daily data

@ Denotes mean number of days greater than 0 but less than .05

(2) Derived from 1971-2000 daily data

-9/-9.9 represents missing values

Annual statistics for Mean/Median snow depths are not appropriate

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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	5/11	5/05	5/01	4/27	4/24	4/20	4/17	4/12	4/06
32	4/27	4/22	4/18	4/15	4/12	4/09	4/06	4/02	3/28
28	4/13	4/09	4/06	4/04	4/02	3/30	3/28	3/25	3/21
24	4/03	3/28	3/24	3/20	3/16	3/13	3/09	3/04	2/26
20	3/18	3/10	3/05	3/01	2/24	2/20	2/16	2/10	2/03
16	3/10	3/01	2/23	2/18	2/13	2/08	2/03	1/28	1/19

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	9/30	10/04	10/06	10/09	10/11	10/13	10/15	10/17	10/21
32	10/03	10/09	10/13	10/17	10/20	10/23	10/27	10/31	11/06
28	10/19	10/24	10/28	10/31	11/03	11/06	11/10	11/13	11/19
24	11/02	11/07	11/11	11/14	11/17	11/20	11/23	11/26	12/01
20	11/07	11/14	11/20	11/24	11/28	12/03	12/07	12/13	12/20
16	11/21	12/02	12/11	12/17	12/24	12/30	1/06	1/14	1/26

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	187	181	177	173	169	166	162	157	151
32	210	203	198	194	190	186	182	177	171
28	236	229	223	219	215	211	206	201	194
24	271	262	255	250	245	240	234	227	218
20	306	296	289	282	276	270	264	257	246
16	>365	334	323	315	308	301	294	286	274

***** 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	855	649	447	200	70	3	0	0	26	200	454	739	3643
60	708	514	308	100	24	0	0	0	6	107	316	591	2674
57	619	436	235	58	11	0	0	0	2	66	241	503	2171
55	562	385	193	37	6	0	0	0	1	46	197	447	1874
50	426	269	108	9	0	0	0	0	0	14	109	316	1251
32	96	32	2	0	0	0	0	0	0	0	2	43	175

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	264	307	584	813	1095	1292	1453	1411	1177	867	541	327	10131
55	17	16	62	160	388	602	740	698	488	200	46	18	3435
57	12	11	42	121	331	542	678	636	429	159	30	12	3003
60	8	5	22	73	251	452	585	543	343	106	15	7	2410
65	0	0	6	23	142	304	430	388	213	45	3	0	1554
70	0	0	0	4	65	169	275	241	110	14	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	110	174	368	579	853	1062	1214	1171	945	625	329	160	110	284	652	1231	2084	3146	4360	5531	6476	7101	7430	7590
45	54	98	249	438	698	912	1059	1016	795	478	218	89	54	152	401	839	1537	2449	3508	4524	5319	5797	6015	6104
50	27	51	152	306	545	762	904	861	645	333	133	41	27	78	230	536	1081	1843	2747	3608	4253	4586	4719	4760
55	8	22	79	190	395	612	749	706	498	212	69	19	8	30	109	299	694	1306	2055	2761	3259	3471	3540	3559
60	0	2	36	102	255	462	594	551	354	114	28	1	0	2	38	140	395	857	1451	2002	2356	2470	2498	2499
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	68	117	231	373	562	724	827	795	630	416	207	94	68	185	416	789	1351	2075	2902	3697	4327	4743	4950	5044

(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