

Climatography of the United States

No. 20

1971-2000

Station: DICKSON, TN

COOP ID: 402489

Climate Division: TN 3

NWS Call Sign:

Elevation: 780 Feet Lat: 36°04N Lon: 87°23W

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	45.1	26.3	35.7	78	1952	1	44.0	1990	-23	1985	21	23.9	1977	907	0	.0	.0	12.7	4.6	22.2	.6
Feb	50.9	29.6	40.3	82	1996	23	49.8	1976	-14	1951	2	28.2	1978	694	0	.0	.0	16.5	2.2	17.7	.2
Mar	60.7	37.4	49.1	88+	1967	13	55.7	1973	-1	1980	3	43.3	1996	498	3	.0	.0	26.3	.2	11.6	@
Apr	70.3	45.1	57.7	91+	1955	17	63.3	1981	20	1992	3	51.8	1983	237	18	.0	.2	29.3	.0	3.3	.0
May	77.0	54.3	65.7	95	1964	22	70.8	1987	31	1963	2	61.2	1997	83	104	.0	.5	31.0	.0	.0	.0
Jun	83.9	62.6	73.3	107	1952	28	75.9	1971	42	1984	1	69.6	1974	3	251	.1	7.1	30.0	.0	.0	.0
Jul	87.4	66.9	77.2	109	1952	27	80.6	1986	50+	1963	11	74.5	1996	0	377	.4	15.2	31.0	.0	.0	.0
Aug	86.8	65.3	76.1	105	1954	15	80.8	1983	46	1986	29	72.5	1992	0	343	.3	11.9	31.0	.0	.0	.0
Sep	80.8	58.8	69.8	108	1954	5	75.9	1986	32	2001	26	65.6	1974	33	178	.1	4.2	30.0	.0	.0	.0
Oct	70.8	46.5	58.7	95	1953	1	65.6	1984	23+	1952	29	52.0	1988	237	39	.0	@	30.7	.0	2.8	.0
Nov	59.2	37.6	48.4	84	1987	1	55.6	1985	-3	1950	25	40.8	1976	500	2	.0	.0	23.7	.1	10.6	.0
Dec	49.4	29.8	39.6	78	1951	31	48.3	1984	-13	1989	22	28.7	1989	788	0	.0	.0	16.8	2.3	19.2	.3
Ann	68.5	46.7	57.6	109	Jul 1952	27	80.8	Aug 1983	-23	Jan 1985	21	23.9	Jan 1977	3980	1315	.9	39.1	309.0	9.4	87.4	1.1

+ 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/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

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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: DICKSON, TN

COOP ID: 402489

Climate Division: TN 3

NWS Call Sign:

Elevation: 780 Feet Lat: 36°04N

Lon: 87°23W

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	4.30	3.72	3.80	1957	22	10.79	1999	.72	1986	10.4	7.4	3.3	1.1	1.12	1.53	2.15	2.70	3.24	3.81	4.44	5.19	6.17	7.71	9.15
Feb	4.51	4.17	3.68	1989	14	10.61	1989	1.66	1978	9.6	7.0	3.1	1.2	1.91	2.32	2.89	3.36	3.80	4.25	4.73	5.28	5.98	7.04	8.01
Mar	5.72	5.27	6.02	1975	12	12.66	1975	1.72	1987	11.0	8.4	3.8	1.5	2.21	2.75	3.50	4.13	4.73	5.34	5.99	6.75	7.72	9.21	10.56
Apr	4.70	4.09	3.50	1979	12	10.25	1983	1.38	1992	9.8	7.2	3.5	1.3	1.59	2.03	2.68	3.24	3.76	4.31	4.91	5.60	6.49	7.88	9.15
May	5.84	5.44	4.94	1991	27	12.83	1984	1.98	1987	10.2	8.0	4.0	1.8	2.13	2.68	3.47	4.13	4.76	5.41	6.11	6.92	7.96	9.57	11.04
Jun	4.58	3.82	4.02	1949	14	12.33	1989	.06	1988	9.5	6.9	3.1	1.3	.81	1.22	1.89	2.51	3.15	3.84	4.63	5.59	6.86	8.92	10.88
Jul	4.64	4.33	4.05+	1972	27	10.81	1972	.13	1983	9.0	6.9	3.0	1.5	.96	1.39	2.07	2.69	3.31	3.98	4.74	5.65	6.85	8.76	10.58
Aug	2.96	2.89	7.05	1970	11	6.02	1971	.17	1999	7.6	5.5	2.0	.8	.70	.98	1.41	1.80	2.18	2.59	3.04	3.58	4.29	5.42	6.47
Sep	4.15	3.56	6.08	1979	13	9.84	1974	.84	1998	7.0	5.2	2.5	1.2	1.08	1.47	2.07	2.60	3.13	3.68	4.29	5.01	5.96	7.45	8.85
Oct	3.43	3.26	3.50	1977	25	7.88	1977	.44	1987	6.4	4.8	2.3	1.1	.86	1.18	1.68	2.12	2.56	3.02	3.54	4.15	4.95	6.22	7.41
Nov	5.25	4.95	4.40	2001	29	10.34	1986	1.30	1976	9.0	6.8	3.5	1.7	1.76	2.26	2.99	3.60	4.20	4.81	5.48	6.26	7.26	8.81	10.24
Dec	5.36	3.89	4.14	1978	3	15.11	1978	1.52	1976	10.2	7.2	3.7	1.9	1.39	1.90	2.68	3.36	4.04	4.75	5.54	6.48	7.70	9.63	11.43
Ann	55.44	57.46	7.05	Aug 1970	11	15.11	Dec 1978	.06	Jun 1988	109.7	81.3	37.8	16.4	40.45	43.39	47.13	49.96	52.47	54.89	57.38	60.13	63.45	68.26	72.41

+ 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:
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Station: DICKSON, TN

COOP ID: 402489

Climate Division: TN 3

NWS Call Sign:

Elevation: 780 Feet

Lat: 36°04N

Lon: 87°23W

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	1.7	.0	#	#	5.0	1978	25	12.7	1977	7	1985	21	1	1988	1.3	.7	.4	.1	.0	1.4	.7	.1	.0
Feb	2.8	1.5	#	#	7.0	1979	7	17.3	1979	7	1979	9	3	1979	1.0	.8	.3	.1	.0	1.1	.4	.3	.0
Mar	.5	.0	#	0	4.5	1980	1	4.8	1971	4	1980	2	#+	1994	.3	.2	.1	.0	.0	.2	.1	.0	.0
Apr	.1	.0	0	0	1.0	1971	6	2.0	1971	0	0	0	0	0	.1	.1	.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	.3	1993	30	.3	1993	0	0	0	0	0	@	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.1	.0	#	0	1.5	1976	11	3.1	1976	2	1976	11	#	1976	.2	@	.0	.0	.0	.2	.0	.0	.0
Dec	.6	.0	#	0	4.0	1997	29	4.0	1976	2	1974	2	#+	1996	.4	.3	@	.0	.0	.1	.0	.0	.0
Ann	5.8	1.5	N/A	N/A	7.0	Feb 1979	7	17.3	Feb 1979	7+	Jan 1985	21	3	Feb 1979	3.3	2.1	.8	.2	.0	3.0	1.2	.4	.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

Complete documentation available from:

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No. 20 1971-2000

Station: DICKSON, TN

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Climate Division: TN 3

NWS Call Sign:

Elevation: 780 Feet

Lat: 36°04N

Lon: 87°23W

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	4/28	4/24	4/21	4/17	4/13	4/07
32	4/22	4/19	4/16	4/14	4/12	4/10	4/08	4/06	4/02
28	4/17	4/12	4/09	4/06	4/03	3/31	3/29	3/25	3/21
24	4/11	4/04	3/30	3/25	3/21	3/17	3/13	3/08	3/01
20	3/21	3/15	3/10	3/07	3/03	2/28	2/24	2/20	2/14
16	3/14	3/06	2/28	2/23	2/18	2/14	2/09	2/03	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	9/28	10/03	10/07	10/10	10/13	10/16	10/19	10/23	10/28
32	10/05	10/10	10/14	10/17	10/21	10/24	10/27	10/31	11/05
28	10/22	10/26	10/29	11/01	11/03	11/06	11/08	11/11	11/15
24	10/30	11/05	11/09	11/13	11/16	11/19	11/23	11/27	12/02
20	11/08	11/15	11/20	11/24	11/28	12/02	12/06	12/11	12/17
16	11/20	11/29	12/05	12/10	12/15	12/20	12/25	12/31	1/09
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	193	185	180	175	171	166	162	156	149
32	208	202	198	194	191	187	183	179	173
28	230	224	220	217	213	210	207	203	197
24	266	257	250	244	239	233	228	221	211
20	294	286	279	274	269	264	258	252	243
16	329	317	310	303	297	291	285	278	268

* 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:

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Climate Division: TN 3 NWS Call Sign: Elevation: 780 Feet Lat: 36°04N Lon: 87°23W

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	907	694	498	237	83	3	0	0	33	237	500	788	3980
60	752	555	356	129	30	0	0	0	9	136	360	635	2962
57	669	478	277	81	13	0	0	0	3	91	282	550	2444
55	611	425	231	56	7	0	0	0	2	66	234	493	2125
50	471	303	136	17	1	0	0	0	0	25	137	357	1447
32	121	41	4	0	0	0	0	0	0	0	3	58	227

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	237	271	532	771	1044	1238	1400	1366	1135	826	495	293	9608
55	14	12	45	137	338	548	687	653	446	179	36	14	3109
57	10	8	30	102	282	488	625	591	388	141	23	10	2698
60	0	1	15	60	205	398	532	498	303	94	12	2	2120
65	0	0	3	18	104	251	377	343	178	39	2	0	1315
70	0	0	0	3	39	120	223	197	83	12	0	0	677

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	155	333	555	819	1026	1181	1146	916	593	293	133	91	246	579	1134	1953	2979	4160	5306	6222	6815	7108	7241
45	45	87	216	413	664	876	1026	991	766	439	186	71	45	132	348	761	1425	2301	3327	4318	5084	5523	5709	5780
50	23	40	126	278	509	726	871	836	616	303	103	34	23	63	189	467	976	1702	2573	3409	4025	4328	4431	4465
55	3	16	65	169	359	576	716	681	466	182	51	12	3	19	84	253	612	1188	1904	2585	3051	3233	3284	3296
60	0	2	28	85	222	427	561	526	324	91	15	0	0	2	30	115	337	764	1325	1851	2175	2266	2281	2281
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	59	106	220	361	535	697	814	782	611	380	182	82	59	165	385	746	1281	1978	2792	3574	4185	4565	4747	4829

(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.
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