

# Climatography of the United States

No. 20

1971-2000

Station: CAMP WOOD, TX

COOP ID: 411398

Climate Division: TX 7

NWS Call Sign:

Elevation: 1,470 Feet Lat: 29°41N

Lon: 100°01W

## 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	61.7	33.1	47.4	89	2000	19	53.6	1971	8	1963	24	40.9	1979	545	0	.0	.0	26.1	.3	15.5	.0
Feb	66.2	37.3	51.8	96	1996	22	57.7	2000	5	1985	2	44.8	1978	373	1	.0	.3	25.7	.3	9.0	.0
Mar	73.5	45.1	59.3	101	1971	28	65.9	1974	16	1980	2	53.5	1996	205	28	@	1.0	30.3	.0	3.4	.0
Apr	79.9	52.5	66.2	102+	1963	10	72.2	1986	25	1973	9	59.8	1997	67	104	.1	3.5	30.0	.0	.6	.0
May	86.0	62.0	74.0	105	1984	8	78.9	1996	38	1970	4	69.7	1976	9	287	.6	9.4	31.0	.0	.0	.0
Jun	91.1	68.3	79.7	108	1980	29	84.7	1990	45	1970	3	76.2	1997	0	441	1.5	20.3	30.0	.0	.0	.0
Jul	94.2	69.9	82.1	106	1980	3	86.3	1980	55	1985	1	77.6	1976	0	529	4.3	27.0	31.0	.0	.0	.0
Aug	94.1	69.0	81.6	109	1986	21	85.5	1977	59+	1992	30	76.8	1971	0	513	2.9	26.4	31.0	.0	.0	.0
Sep	89.5	64.2	76.9	109	2000	6	83.5	1977	41+	1975	26	71.4	1974	1	357	1.1	18.0	30.0	.0	.0	.0
Oct	80.5	54.2	67.4	100	1979	4	69.9	1979	26	1980	30	59.3	1976	43	117	@	3.2	30.9	.0	.4	.0
Nov	70.1	43.3	56.7	93+	1988	8	61.5	1973	15	1976	29	51.0	1993	264	15	.0	.1	28.9	.0	5.1	.0
Dec	63.0	35.1	49.1	87	1987	12	56.4	1984	5+	1989	23	39.9	1989	496	1	.0	.0	27.3	.2	13.1	.0
Ann	79.2	52.8	66.0	109+	Sep 2000	6	86.3	Jul 1980	5+	Dec 1989	23	39.9	Dec 1989	2003	2393	10.5	109.2	352.2	.8	47.1	.0

+ 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](http://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: 1944-2001

(3) Derived from 1971-2000 serially complete daily data

# 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: CAMP WOOD, TX

COOP ID: 411398

Climate Division: TX 7

NWS Call Sign:

Elevation: 1,470 Feet Lat: 29°41N

Lon: 100°01W

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	1.11	1.03	1.89	1989	27	2.99	1989	.00+	1999	4.8	2.4	.7	.2	.00	.00	.24	.43	.62	.84	1.09	1.40	1.81	2.50	3.18
Feb	1.44	1.44	5.12	1949	22	4.68	1990	.00+	1999	4.5	3.0	1.0	.3	.00	.00	.35	.60	.85	1.13	1.44	1.83	2.33	3.17	3.99
Mar	1.55	1.32	3.76	1994	16	5.03	1994	.12	1971	5.1	2.7	.9	.3	.11	.21	.41	.62	.86	1.14	1.47	1.88	2.46	3.44	4.40
Apr	2.41	1.54	5.57	1990	26	8.98	1977	.00	1998	4.9	3.3	1.4	.7	.06	.22	.54	.89	1.27	1.72	2.25	2.94	3.89	5.50	7.09
May	3.16	2.73	7.02	1963	6	7.99	1987	.30	1998	6.7	4.9	2.2	.9	.64	.93	1.40	1.82	2.25	2.71	3.23	3.85	4.67	5.99	7.24
Jun	3.68	3.05	5.10	1997	22	10.16	1997	.41	1974	6.0	4.5	2.3	1.1	.60	.92	1.46	1.96	2.49	3.05	3.70	4.50	5.56	7.27	8.92
Jul	2.09	1.23	4.46	1994	14	12.25	1976	.00	1993	4.2	3.2	1.2	.7	.01	.05	.19	.42	.72	1.12	1.65	2.38	3.46	5.42	7.46
Aug	3.07	1.95	4.90	1971	11	16.27	1998	.00+	1993	4.5	3.3	1.7	1.1	.00	.09	.44	.87	1.37	1.98	2.73	3.70	5.09	7.49	9.91
Sep	2.87	2.31	8.33	1955	24	10.63	1991	.00	1989	5.6	4.1	1.5	.9	.11	.35	.76	1.18	1.64	2.15	2.76	3.53	4.58	6.34	8.07
Oct	3.46	2.66	6.00	1973	13	10.66	1973	.09	1987	5.5	4.2	2.1	1.1	.16	.34	.74	1.20	1.73	2.36	3.14	4.15	5.58	8.03	10.49
Nov	1.77	1.45	8.37	2001	15	4.37	1978	.00	1999	4.7	3.0	1.0	.5	.11	.28	.56	.82	1.10	1.40	1.75	2.19	2.78	3.74	4.68
Dec	1.38	.93	3.76	1984	31	7.42	1991	.00+	1999	4.9	2.7	.6	.2	.00	.05	.21	.40	.63	.90	1.23	1.66	2.28	3.33	4.39
Ann	27.99	26.54	8.37	Nov 2001	15	16.27	Aug 1998	.00+	Dec 1999	61.4	41.3	16.6	8.0	16.62	18.68	21.39	23.50	25.42	27.30	29.27	31.49	34.21	38.25	41.80

+ 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: 1944-2001

(3) Derived from 1971-2000 serially complete daily data

Complete documentation available from:  
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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Federal Building  
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[www.ncdc.noaa.gov](http://www.ncdc.noaa.gov)

**Station: CAMP WOOD, TX**

**COOP ID: 411398**

**Climate Division: TX 7**

**NWS Call Sign:**

**Elevation: 1,470 Feet**

**Lat: 29°41N**

**Lon: 100°01W**

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	.0	.0	#	0	.5	1982	12	.9	1982	10	1985	13	1	1985	.1	.0	.0	.0	.0	.0	.0	.0	.0
Feb	.2	.0	#	0	4.0	1973	9	4.5	1973	4	1973	9	#	1973	.1	@	@	.0	.0	@	@	.0	.0
Mar	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Apr	.0	.0	0	0	.0	0	0	.0	0	0	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	.1	.0	0	0	2.2	1996	25	2.2	1996	0	0	0	0	0	@	@	.0	.0	.0	.0	.0	.0	.0
Dec	.0	.0	#	0	.0	0	0	.0	0	1	1996	16	#	1996	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.3	.0	N/A	N/A	4.0	Feb 1973	9	4.5	Feb 1973	10	Jan 1985	13	1	Jan 1985	.2	@	@	.0	.0	@	@	.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

Complete documentation available from:

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**NWS Call Sign:**

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**Lat: 29° 41N**

**Lon: 100° 01W**

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	4/15	4/11	4/08	4/05	4/02	3/30	3/26	3/21
32	4/13	4/05	3/31	3/26	3/22	3/17	3/13	3/07	2/28
28	3/31	3/23	3/16	3/11	3/06	3/01	2/24	2/18	2/09
24	3/18	3/06	2/26	2/19	2/13	2/06	1/30	1/22	1/11
20	3/05	2/22	2/14	2/08	2/01	1/25	1/17	1/07	0/00
16	2/09	1/30	1/22	1/15	1/08	12/31	12/20	0/00	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	10/18	10/23	10/27	10/30	11/03	11/06	11/09	11/13	11/19
32	10/25	10/31	11/04	11/08	11/11	11/14	11/18	11/22	11/27
28	10/30	11/07	11/12	11/17	11/22	11/26	12/01	12/06	12/14
24	11/15	11/23	11/29	12/04	12/09	12/14	12/19	12/25	1/02
20	11/26	12/05	12/11	12/17	12/22	12/28	1/04	1/14	0/00
16	12/10	12/20	12/28	1/04	1/11	1/19	2/01	0/00	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	233	225	220	215	211	206	202	196	188
32	258	249	243	238	233	228	223	217	209
28	288	278	271	265	260	254	248	241	232
24	341	327	316	307	299	290	281	271	256
20	>365	>365	348	334	325	316	308	299	287
16	>365	>365	>365	>365	>365	359	346	335	324

\* 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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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	545	373	205	67	9	0	0	0	1	43	264	496	2003
60	397	243	105	20	1	0	0	0	0	9	151	351	1277
57	311	174	62	8	0	0	0	0	0	3	100	271	929
55	258	135	40	4	0	0	0	0	0	1	73	222	733
50	149	61	10	0	0	0	0	0	0	0	27	126	373
32	0	0	0	0	0	0	0	0	0	0	0	0	0

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	478	553	846	1026	1301	1431	1552	1536	1347	1097	741	529	12437
55	23	44	173	340	588	741	839	823	657	385	124	38	4775
57	14	27	133	284	526	681	777	761	597	324	91	24	4239
60	7	12	83	206	434	591	684	668	507	238	52	12	3494
65	0	1	28	104	287	441	529	513	357	117	15	1	2393
70	0	0	6	38	161	292	374	358	217	39	2	0	1487

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	277	373	615	801	1067	1197	1313	1299	1121	868	520	318	277	650	1265	2066	3133	4330	5643	6942	8063	8931	9451	9769
45	161	249	466	651	912	1047	1158	1144	971	713	378	192	161	410	876	1527	2439	3486	4644	5788	6759	7472	7850	8042
50	83	144	324	502	757	897	1003	989	821	560	254	101	83	227	551	1053	1810	2707	3710	4699	5520	6080	6334	6435
55	32	72	199	358	602	747	848	834	671	410	149	40	32	104	303	661	1263	2010	2858	3692	4363	4773	4922	4962
60	7	24	101	230	447	597	693	679	523	269	72	12	7	31	132	362	809	1406	2099	2778	3301	3570	3642	3654
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	214	264	409	528	722	820	872	862	755	580	346	231	214	478	887	1415	2137	2957	3829	4691	5446	6026	6372	6603

(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](http://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](http://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"><li>a. Temperature/ Precipitation Tables<ol style="list-style-type: none"><li>1. 1971-2000 Monthly Normals</li><li>2. Cooperative Summary of the Day</li><li>3. National Weather Service station records</li><li>4. 1971-2000 serially complete daily data</li></ol></li><li>b. Degree Day Table<ol style="list-style-type: none"><li>1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals</li><li>2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data</li></ol></li></ol> | <ol style="list-style-type: none"><li>c. Snow Tables<ol style="list-style-type: none"><li>1. Snow Climatology</li><li>2. Cooperative Summary of the Day</li></ol></li><li>d. Freeze Data Table<br/>1971-2000 serially complete daily data</li></ol> |
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## References

U.S. Climate Normals 1971-2000, [www.ncdc.noaa.gov/normal.html](http://www.ncdc.noaa.gov/normal.html)  
U.S. Climate Normals 1971-2000-Products Clim20, [www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html)  
Snow Climatology Project Description, [www.ncdc.noaa.gov/oa/climate/monitoring/snowclim/mainpage.html](http://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](http://www1.ncdc.noaa.gov/pub/data/special/serialcomplete_jam_0900.pdf)