

# Climatography of the United States

No. 20

1971-2000

Station: BRACKETTVILLE, TX

COOP ID: 411007

Climate Division: TX 7

NWS Call Sign:

Elevation: 1,118 Feet Lat: 29° 19N

Lon: 100° 25W

## 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	63.8	37.3	50.6	90	2000	20	56.9	2000	4	1962	12	43.3	1979	458	10	.0	@	27.3	.1	9.2	.0
Feb	68.7	41.1	54.9	99	1996	22	62.7	1999	14	1905	13	46.4	1978	300	17	.0	.4	26.5	@	4.7	.0
Mar	76.3	49.1	62.7	101	1971	28	68.0	2000	16	1980	2	56.7	1987	127	55	@	1.5	30.7	.0	1.3	.0
Apr	83.1	55.8	69.5	104+	1996	26	75.9	1972	29	1973	8	64.4	1987	28	161	.2	6.3	30.0	.0	.1	.0
May	88.1	64.4	76.3	107	1927	27	82.3	1998	37	1903	1	70.4	1976	5	353	1.0	13.3	31.0	.0	.0	.0
Jun	92.9	69.9	81.4	111	1988	10	86.9	1998	47+	1903	14	77.4	1979	0	491	3.0	23.3	30.0	.0	.0	.0
Jul	95.5	72.1	83.8	109	1960	31	89.2	1998	55+	1999	25	77.9	1976	0	582	6.1	27.3	31.0	.0	.0	.0
Aug	95.9	71.8	83.9	109	1986	20	86.8	1985	54	1991	5	77.9	1971	0	583	6.2	27.5	31.0	.0	.0	.0
Sep	91.1	67.2	79.2	104+	1985	4	83.9	1977	35	1991	20	70.3	1974	0	425	.8	21.0	30.0	.0	.0	.0
Oct	82.9	58.0	70.5	101	1979	4	73.5	1972	22	1993	31	62.2	1976	21	190	.1	5.9	31.0	.0	.3	.0
Nov	72.9	46.6	59.8	93	1988	8	66.3	1973	19+	1976	30	51.9	1976	197	39	.0	.2	29.4	.0	2.9	.0
Dec	64.9	39.1	52.0	89	1977	5	59.9	1984	9	1983	24	42.2	2000	417	14	.0	.0	27.7	.1	8.4	.0
Ann	81.3	56.0	68.7	111	Jun 1988	10	89.2	Jul 1998	4	Jan 1962	12	42.2	Dec 2000	1553	2920	17.4	126.7	355.6	.2	26.9	.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: 1897-2001

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

036-A

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## No. 20 1971-2000

National Climatic Data Center  
Federal Building  
151 Patton Avenue  
Asheville, North Carolina 28801  
www.ncdc.noaa.gov

**Station: BRACKETTVILLE, TX**

**COOP ID: 411007**

**Climate Division: TX 7**

**NWS Call Sign:**

**Elevation: 1,118 Feet Lat: 29°19N**

**Lon: 100°25W**

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	.77	.64	1.90	1968	18	2.90	1991	.00+	1996	3.1	2.2	.5	.2	.00	.00	.04	.17	.31	.48	.68	.95	1.31	1.93	2.56
Feb	1.16	.83	5.15	1949	23	3.92	1987	.00+	1999	3.1	2.3	.9	.5	.00	.00	.16	.33	.53	.76	1.05	1.42	1.93	2.81	3.69
Mar	1.10	.76	4.00	1923	26	4.10	1990	.00+	1986	3.3	2.3	.9	.2	.00	.00	.15	.35	.55	.78	1.04	1.38	1.84	2.59	3.34
Apr	1.99	1.35	5.50	1990	25	9.49	1990	.00+	1998	3.7	3.1	1.4	.6	.00	.15	.47	.78	1.11	1.48	1.92	2.46	3.21	4.46	5.68
May	2.87	2.59	6.20	1900	14	7.93	1987	.00	1998	4.6	3.9	1.9	.9	.33	.68	1.16	1.57	1.99	2.43	2.94	3.54	4.34	5.61	6.83
Jun	3.18	2.55	5.32	1948	24	9.35	1971	.00+	1990	4.1	3.8	2.1	1.4	.00	.31	.86	1.37	1.89	2.47	3.14	3.96	5.08	6.92	8.72
Jul	1.79	.74	5.92	1938	24	13.86	1976	.00+	1998	2.9	2.6	1.1	.7	.00	.00	.02	.19	.46	.83	1.32	2.01	3.05	4.91	6.87
Aug	2.29	1.24	4.85	1998	23	11.56	1998	.00+	1985	2.9	2.6	1.2	.8	.00	.00	.18	.46	.83	1.29	1.89	2.69	3.86	5.92	8.02
Sep	2.77	2.21	6.00	1955	24	12.90	1991	.00	1979	5.0	4.1	1.8	.9	.31	.65	1.11	1.51	1.92	2.35	2.83	3.42	4.19	5.43	6.61
Oct	2.49	1.65	5.80	1951	28	8.59	2000	.00+	1992	4.2	3.6	1.8	.9	.00	.00	.23	.55	.96	1.46	2.11	2.96	4.18	6.32	8.49
Nov	1.41	1.16	3.50	1913	24	4.11	2000	.00+	1999	3.0	2.3	1.1	.4	.00	.00	.33	.57	.81	1.08	1.40	1.78	2.29	3.15	3.97
Dec	.97	.54	2.75	1902	1	3.81	1991	.00+	1999	2.6	1.9	.6	.1	.00	.00	.09	.24	.41	.61	.86	1.18	1.64	2.40	3.18
Ann	22.79	21.97	6.20	May 1900	14	13.86	Jul 1976	.00+	Dec 1999	42.5	34.7	15.3	7.6	12.49	14.28	16.69	18.59	20.32	22.04	23.85	25.89	28.43	32.20	35.55

+ 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: 1897-2001

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

Complete documentation available from:  
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**Climate Division: TX 7**

**NWS Call Sign:**

**Elevation: 1,118 Feet**

**Lat: 29° 19N**

**Lon: 100° 25W**

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	#	1976	26	#	1976	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Feb	.1	.0	0	0	3.0	1973	9	3.0	1973	0	0	0	0	0	@	@	@	.0	.0	.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	#	.0	0	0	#	1976	29	#	1976	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.1	.0	N/A	N/A	3.0	Feb 1973	9	3.0	Feb 1973	0	0	0	0	0	@	@	@	.0	.0	.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

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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	4/14	4/05	3/30	3/24	3/19	3/14	3/08	3/02	2/21
32	4/01	3/22	3/16	3/10	3/05	2/28	2/22	2/15	2/06
28	3/11	3/03	2/25	2/19	2/14	2/09	2/04	1/28	1/18
24	2/26	2/15	2/06	1/30	1/22	1/14	1/03	0/00	0/00
20	2/05	1/26	1/18	1/10	1/02	12/24	12/07	0/00	0/00
16	1/22	1/07	12/23	0/00	0/00	0/00	0/00	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	10/14	10/22	10/28	11/02	11/07	11/12	11/17	11/23	12/01
32	10/23	10/31	11/06	11/11	11/15	11/20	11/24	11/30	12/08
28	11/03	11/16	11/26	12/04	12/12	12/20	12/28	1/08	1/24
24	11/27	12/06	12/13	12/20	12/26	1/03	1/14	0/00	0/00
20	12/09	12/21	12/30	1/08	1/17	1/29	0/00	0/00	0/00
16	12/23	1/07	1/22	0/00	0/00	0/00	0/00	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	268	255	247	239	232	225	217	209	196
32	291	279	270	262	255	247	239	230	218
28	>365	324	311	302	295	287	279	270	258
24	>365	>365	>365	>365	341	326	314	303	288
20	>365	>365	>365	>365	>365	>365	360	342	327
16	>365	>365	>365	>365	>365	>365	>365	>365	>365

\* 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	458	300	127	28	5	0	0	0	0	21	197	417	1553
60	320	190	53	5	0	0	0	0	0	3	107	285	963
57	248	139	27	1	0	0	0	0	0	1	68	219	703
55	207	110	15	0	0	0	0	0	0	0	48	181	561
50	122	51	3	0	0	0	0	0	0	0	17	101	294
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	575	641	951	1123	1371	1481	1605	1606	1414	1192	832	619	13410
55	69	107	254	433	658	791	892	893	724	479	190	87	5577
57	48	80	203	374	596	731	830	831	664	418	150	63	4988
60	28	48	136	288	503	641	737	738	574	328	99	36	4156
65	10	17	55	161	353	491	582	583	425	190	39	14	2920
70	0	5	14	72	217	343	427	428	283	85	11	2	1887

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	357	451	714	888	1131	1250	1358	1361	1177	954	595	383	357	808	1522	2410	3541	4791	6149	7510	8687	9641	10236	10619
45	230	319	560	738	976	1100	1203	1206	1027	799	454	256	230	549	1109	1847	2823	3923	5126	6332	7359	8158	8612	8868
50	126	203	412	588	821	950	1048	1051	878	645	314	143	126	329	741	1329	2150	3100	4148	5199	6077	6722	7036	7179
55	56	108	275	440	666	800	893	896	728	491	195	67	56	164	439	879	1545	2345	3238	4134	4862	5353	5548	5615
60	17	47	156	300	511	650	738	741	578	345	101	27	17	64	220	520	1031	1681	2419	3160	3738	4083	4184	4211
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	241	294	459	583	766	843	902	901	788	635	386	258	241	535	994	1577	2343	3186	4088	4989	5777	6412	6798	7056

(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.

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                     |
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| <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)