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: BEEVILLE 5 NE, TX **COOP ID: 410639**

Climate Division: TX 8 **NWS Call Sign:** **Elevation: 255 Feet** **Lat: 28˚27N** **Lon: 97˚42W**

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	64.5	43.1	53.8	91	1971	4	60.7	1971	12+	1962	12	46.1	1978	373	26	.0	@	26.8	.2	5.0	.0
Feb	68.2	46.5	57.4	98	1996	22	64.7	2000	12	1951	2	48.2	1978	241	27	.0	.3	25.9	.1	2.9	.0
Mar	75.2	53.9	64.6	102	1950	26	70.7	2000	17	1917	5	59.3	1996	93	79	.0	.8	30.6	.0	.7	.0
Apr	80.7	59.8	70.3	105	1963	10	75.1+	1986	29	1920	5	65.6	1997	18	175	@	2.3	30.0	.0	@	.0
May	86.1	67.4	76.8	105+	1916	30	82.1	1989	42+	1935	4	72.4	1992	3	367	.1	8.3	31.0	.0	.0	.0
Jun	91.3	71.9	81.6	110	1998	15	87.2	1998	51	1919	3	79.0	1979	0	498	.5	21.4	30.0	.0	.0	.0
Jul	94.6	73.1	83.9	111	1939	9	87.9	1998	61+	1929	13	80.5	1976	0	584	4.1	27.5	31.0	.0	.0	.0
Aug	94.6	72.8	83.7	109	1962	14	86.5	1997	60	1992	18	80.4	1992	0	579	3.4	27.6	31.0	.0	.0	.0
Sep	90.7	69.0	79.9	110	2000	6	82.8	1977	44	1909	29	75.2	1974	0	446	.9	19.3	30.0	.0	.0	.0
Oct	83.4	60.5	72.0	102	1938	3	74.5	1984	27+	1917	31	63.8	1976	11	226	.0	6.0	30.9	.0	@	.0
Nov	73.8	52.1	63.0	95+	1988	5	68.4	1973	19	1911	30	54.6	1976	146	84	.0	.1	29.3	.0	.9	.0
Dec	66.6	44.8	55.7	90	1933	26	63.7	1984	8	1983	25	45.5	1989	316	28	.0	.0	28.0	.2	3.8	.0
Ann	80.8	59.6	70.2	111	Jul 1939	9	87.9	Jul 1998	8	Dec 1983	25	45.5	Dec 1989	1201	3119	9.0	113.6	354.5	.5	13.3	.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/normals/usnormals.html

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1901-2001

(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	1.94	1.80	6.68	1932	3	4.93	1979	.02	1971
Feb	1.84	1.62	3.52	1958	22	5.69	1992	.07	1976
Mar	1.90	1.62	4.10	1910	31	5.29	1990	.04	1971
Apr	2.68	1.64	4.81	1985	11	8.85	1992	.04	1983
May	3.49	3.16	5.66	1914	19	8.46	1972	.00+	1998
Jun	4.19	3.46	5.03	1931	27	15.60	1987	.00+	1982
Jul	2.69	2.03	10.43	1903	3	11.10	1990	.00	1994
Aug	3.02	2.41	9.50	1914	8	13.55	1980	.16+	1990
Sep	4.30	4.19	10.61	1967	22	20.10	1971	.41	1982
Oct	3.60	2.22	5.84	1973	12	10.26	1997	.12	1979
Nov	2.00	1.98	3.88	1928	5	6.03	1982	.15	1999
Dec	1.83	1.29	4.40	1993	18	8.13	1991	.00	1973
Ann	33.48	35.43	10.61	Sep 1967	22	20.10	Sep 1971	.00+	May 1998

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	8.0	3.9	1.1	.4
Feb	7.1	3.2	1.2	.5
Mar	6.8	3.2	1.0	.5
Apr	5.7	3.5	1.6	.7
May	7.2	5.0	2.3	1.1
Jun	7.4	5.4	2.5	1.6
Jul	5.3	3.7	1.5	.8
Aug	6.4	4.4	1.8	.8
Sep	8.2	5.2	2.3	1.3
Oct	7.0	4.8	2.0	1.0
Nov	6.4	3.6	1.2	.5
Dec	7.0	3.4	1.0	.4
Ann	82.5	49.3	19.5	9.6

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	.16	.29	.55	.82	1.11	1.45	1.85	2.36	3.06	4.23	5.38
Feb	.14	.26	.49	.75	1.03	1.36	1.75	2.24	2.92	4.07	5.21
Mar	.13	.25	.49	.75	1.04	1.38	1.79	2.31	3.03	4.25	5.46
Apr	.15	.31	.63	1.00	1.41	1.89	2.48	3.24	4.30	6.10	7.90
May	.00	.43	1.08	1.64	2.21	2.82	3.52	4.36	5.50	7.36	9.15
Jun	.00	.34	1.04	1.69	2.39	3.17	4.09	5.20	6.75	9.32	11.82
Jul	.01	.07	.27	.57	.97	1.49	2.16	3.09	4.46	6.92	9.46
Aug	.19	.37	.75	1.16	1.63	2.17	2.82	3.66	4.83	6.80	8.77
Sep	.39	.70	1.27	1.87	2.52	3.26	4.14	5.24	6.76	9.28	11.75
Oct	.23	.45	.90	1.39	1.95	2.59	3.37	4.36	5.74	8.08	10.40
Nov	.22	.37	.65	.93	1.23	1.57	1.96	2.45	3.11	4.21	5.29
Dec	.04	.16	.40	.66	.95	1.29	1.70	2.23	2.96	4.20	5.44
Ann	20.03	22.46	25.68	28.18	30.44	32.67	35.00	37.61	40.83	45.58	49.76

+ 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: 1901-2001
(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	.0	.0	0	0
Feb	.1	.0	0	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	0
Ann	.1	.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	.0	0	0	.0	0	0	0	0	0	0
Feb	1.0	1973	9	1.0	1973	0	0	0	0	0
Mar	.0	0	0	.0	0	0	0	0	0	0
Apr	.0	0	0	.0	0	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	.0	0	0	.0	0	0	0	0	0	0
Nov	#	1976	28	#	1976	0	0	0	0	0
Dec	.0	0	0	.0	0	0	0	0	0	0
Ann	1.0	Feb 1973	9	1.0	Feb 1973	0	0	0	0	0

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.0	.0	.0	.0	.0
Feb	.1	.1	.0	.0	.0
Mar	.0	.0	.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	.0	.0	.0	.0	.0
Dec	.0	.0	.0	.0	.0
Ann	.1	.1	.0	.0	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.0	.0	.0	.0
Feb	.0	.0	.0	.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	.0
Dec	.0	.0	.0	.0
Ann	.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	4/02	3/24	3/18	3/13	3/08	3/03	2/26	2/20	2/12
32	3/17	3/07	2/27	2/21	2/14	2/08	2/01	1/24	1/12
28	3/01	2/18	2/10	2/03	1/27	1/20	1/12	1/01	0/00
24	2/17	2/04	1/25	1/15	1/06	12/26	12/10	0/00	0/00
20	1/25	1/08	12/16	0/00	0/00	0/00	0/00	0/00	0/00
16	12/29	0/00	0/00	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	11/04	11/10	11/15	11/18	11/22	11/26	11/29	12/04	12/10
32	11/17	11/23	11/28	12/02	12/06	12/10	12/14	12/19	12/27
28	11/22	12/02	12/10	12/16	12/22	12/29	1/06	1/18	0/00
24	12/08	12/17	12/25	1/01	1/08	1/16	2/01	0/00	0/00
20	12/24	1/12	2/06	0/00	0/00	0/00	0/00	0/00	0/00
16	1/10	0/00	0/00	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	288	277	270	264	258	252	246	239	228
32	343	322	311	302	294	287	279	269	257
28	>365	>365	359	340	329	320	312	303	291
24	>365	>365	>365	>365	>365	351	338	326	313
20	>365	>365	>365	>365	>365	>365	>365	>365	>365
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

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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	373	241	93	18	3	0	0	0	0	11	146	316	1201
60	254	146	33	2	0	0	0	0	0	2	75	203	715
57	196	102	15	0	0	0	0	0	0	0	45	150	508
55	163	77	8	0	0	0	0	0	0	0	31	119	398
50	89	31	1	0	0	0	0	0	0	0	10	55	186
32	0	0	0	0	0	0	0	0	0	0	0	0	0

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	676	710	1009	1147	1387	1488	1607	1602	1436	1238	928	735	13963
55	126	142	304	457	674	798	894	889	746	525	268	140	5963
57	97	112	249	397	612	738	832	827	686	463	223	110	5346
60	62	72	174	309	519	648	739	734	596	372	163	70	4458
65	26	27	79	175	367	498	584	579	446	226	84	28	3119
70	11	9	23	77	225	348	429	424	297	106	33	10	1992

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	440	508	750	904	1140	1249	1363	1357	1199	993	693	500	440	948	1698	2602	3742	4991	6354	7711	8910	9903	10596	11096
45	307	376	599	754	985	1099	1208	1202	1049	839	544	362	307	683	1282	2036	3021	4120	5328	6530	7579	8418	8962	9324
50	198	253	451	604	830	949	1053	1047	899	685	404	240	198	451	902	1506	2336	3285	4338	5385	6284	6969	7373	7613
55	112	149	311	456	675	799	898	892	749	532	279	144	112	261	572	1028	1703	2502	3400	4292	5041	5573	5852	5996
60	55	79	186	317	520	649	743	737	599	384	174	71	55	134	320	637	1157	1806	2549	3286	3885	4269	4443	4514
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	275	314	483	609	797	864	919	912	815	668	444	308	275	589	1072	1681	2478	3342	4261	5173	5988	6656	7100	7408

(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