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: BRIDGEPORT, TX **COOP ID: 411063**

Climate Division: TX 3 **NWS Call Sign:** **Elevation: 745 Feet** **Lat: 33˚12N** **Lon: 97˚46W**

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	56.1	30.5	43.3	92	1969	9	49.9	1990	1	1966	23	34.4	1979	673	0	.0	.0	20.9	1.7	20.3	.0
Feb	61.5	35.3	48.4	96	1996	22	56.5	1976	1	1951	2	37.4	1978	473	7	.0	.1	21.6	1.1	12.9	.0
Mar	70.5	43.4	57.0	96+	1956	28	62.8	1974	9+	1989	7	51.9	1975	262	13	.0	.6	29.2	.2	5.3	.0
Apr	78.3	50.5	64.4	101	1974	1	70.1	1981	24+	1989	11	59.6	1973	92	73	@	1.6	30.0	.0	1.0	.0
May	85.0	59.8	72.4	106	1967	12	79.7	1996	37	1992	7	67.0	1976	16	244	.3	7.1	31.0	.0	.0	.0
Jun	91.9	66.6	79.3	115+	1980	29	85.9	1980	48+	1983	1	74.6	1983	0	428	2.7	19.3	30.0	.0	.0	.0
Jul	98.0	70.1	84.1	114+	1978	16	89.8	1978	53	1952	9	78.8	1976	0	590	11.4	28.5	31.0	.0	.0	.0
Aug	97.4	68.5	83.0	115	1951	6	87.9	1999	52+	1992	28	77.6	1992	0	556	12.3	27.6	31.0	.0	.0	.0
Sep	89.9	61.8	75.9	111+	2000	4	82.3	1998	33+	1984	30	68.1	1974	11	337	2.9	16.9	30.0	.0	.0	.0
Oct	80.0	51.2	65.6	105+	1977	1	69.6	1979	21	1993	31	56.9	1976	78	97	.2	4.2	30.8	.0	.5	.0
Nov	66.9	41.5	54.2	92	1987	4	59.7	1999	10	1950	11	46.5	1976	339	15	.0	@	27.4	.1	7.6	.0
Dec	58.1	32.6	45.4	90	1955	25	50.0	1980	-8	1989	23	33.5	1983	610	1	.0	.0	23.5	1.0	17.2	.1
Ann	77.8	51.0	64.4	115+	Jun 1980	29	89.8	Jul 1978	-8	Dec 1989	23	33.5	Dec 1983	2554	2361	29.8	105.9	336.4	4.1	64.8	.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/normals/usnormals.html

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1915-2001

(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	1.53	1.45	2.70	1946	5	5.21	1998	.03	1986
Feb	2.06	1.66	2.81	1944	28	7.55	1997	.05	1996
Mar	2.63	2.09	4.12	1977	27	5.54	1990	.38	1971
Apr	2.83	2.28	4.51	1942	25	10.11	1990	.32	1983
May	5.53	5.41	6.00	1981	9	13.36	1981	.83	1996
Jun	3.54	3.40	7.37	1923	10	9.12	1989	.13	1980
Jul	2.26	1.91	5.50	1921	11	8.43	1975	.00	1993
Aug	2.01	1.82	2.90	1991	12	6.14	1996	.00+	2000
Sep	2.97	2.52	4.43	1996	15	8.67	1980	.05	1983
Oct	4.37	3.04	9.07	1919	8	25.21	1981	.48	1975
Nov	2.28	1.92	3.30	1923	14	6.27	1994	.00	1999
Dec	2.01	2.10	3.20	1932	24	8.45	1991	.00+	1996
Ann	34.02	33.67	9.07	Oct 1919	8	25.21	Oct 1981	.00+	Aug 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	5.0	3.3	1.2	.2
Feb	5.3	3.9	1.5	.3
Mar	6.1	4.4	2.0	.8
Apr	5.9	4.5	2.0	.9
May	7.7	6.2	3.5	2.0
Jun	6.3	5.0	2.4	1.3
Jul	4.0	3.1	1.4	.7
Aug	4.4	3.1	1.4	.6
Sep	5.2	4.0	1.6	1.0
Oct	6.5	5.0	2.3	1.3
Nov	5.1	3.5	1.7	.6
Dec	5.3	3.8	1.5	.5
Ann	66.8	49.8	22.5	10.2

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	.11	.21	.41	.62	.86	1.13	1.45	1.86	2.43	3.38	4.33
Feb	.20	.35	.63	.92	1.23	1.58	2.00	2.51	3.22	4.40	5.55
Mar	.55	.79	1.18	1.53	1.88	2.26	2.69	3.20	3.87	4.95	5.97
Apr	.53	.78	1.20	1.58	1.97	2.39	2.87	3.45	4.22	5.46	6.63
May	1.18	1.69	2.50	3.24	3.97	4.76	5.65	6.72	8.12	10.36	12.48
Jun	.58	.89	1.40	1.89	2.39	2.93	3.56	4.32	5.33	6.98	8.55
Jul	.06	.22	.53	.85	1.21	1.63	2.13	2.76	3.64	5.13	6.60
Aug	.00	.10	.38	.68	1.01	1.40	1.87	2.46	3.29	4.70	6.10
Sep	.21	.40	.78	1.19	1.64	2.17	2.80	3.60	4.72	6.60	8.47
Oct	.38	.68	1.27	1.87	2.54	3.29	4.19	5.32	6.87	9.47	12.02
Nov	.16	.40	.76	1.10	1.45	1.83	2.27	2.82	3.55	4.74	5.90
Dec	.00	.12	.42	.72	1.06	1.45	1.91	2.48	3.28	4.63	5.96
Ann	20.68	23.11	26.31	28.79	31.03	33.23	35.53	38.11	41.28	45.95	50.06

\+ 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: 1915-2001
(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	1.0	.0	#	0
Feb	1.4	.0	#	0
Mar	.1	.0	#	0
Apr	.1	.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	.7	.0	#	0
Dec	.2	.0	#	0
Ann	3.5	.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	5.0	1977	31	7.0	1977	5	1977	31	#+	1997
Feb	4.0	1978	11	16.3	1978	4	1988	5	#+	1996
Mar	1.0	1971	3	1.0	1971	6	1989	5	1	1989
Apr	3.0	1996	5	3.0	1996	2	1996	5	#	1996
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	6.0	1976	14	10.0	1976	6	1976	14	#+	1996
Dec	5.0	1983	16	5.0	1983	1	2000	13	#+	2000
Ann	6.0	Nov 1976	14	16.3	Feb 1978	6+	Mar 1989	5	1	Mar 1989

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.5	.4	.1	@	.0
Feb	.7	.4	.3	.0	.0
Mar	.2	@	.0	.0	.0
Apr	@	@	@	.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	.3	.2	.1	@	.0
Dec	.2	.1	@	@	.0
Ann	1.9	1.1	.5	@	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.2	@	@	.0
Feb	.2	.1	.0	.0
Mar	.1	.0	.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	.0
Nov	.2	.1	@	.0
Dec	.0	.0	.0	.0
Ann	.7	.2	@	.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	4/21	4/17	4/13	4/11	4/08	4/06	4/03	3/31	3/26
32	4/18	4/11	4/06	4/02	3/30	3/26	3/22	3/17	3/11
28	4/08	3/31	3/25	3/20	3/15	3/10	3/05	2/27	2/19
24	3/20	3/12	3/07	3/02	2/26	2/22	2/17	2/12	2/05
20	3/07	2/26	2/20	2/15	2/10	2/05	1/31	1/24	1/16
16	3/01	2/18	2/10	2/03	1/27	1/20	1/11	12/29	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	10/07	10/13	10/18	10/21	10/25	10/29	11/01	11/06	11/12
32	10/20	10/26	10/31	11/04	11/07	11/11	11/15	11/19	11/25
28	10/30	11/05	11/10	11/14	11/17	11/21	11/25	11/29	12/05
24	11/09	11/16	11/21	11/25	11/30	12/04	12/08	12/13	12/21
20	11/20	11/28	12/04	12/08	12/13	12/17	12/22	12/28	1/04
16	12/02	12/09	12/15	12/20	12/25	12/30	1/05	1/14	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	223	214	209	204	199	194	189	184	176
32	247	238	232	227	222	217	212	205	197
28	273	264	257	252	246	241	235	229	219
24	302	293	286	281	276	271	265	259	250
20	339	326	317	310	304	298	291	283	272
16	>365	>365	>365	350	331	321	311	302	290

***** 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	673	473	262	92	16	0	0	0	11	78	339	610	2554
60	523	346	144	31	2	0	0	0	2	26	219	463	1756
57	438	277	92	13	0	0	0	0	0	11	161	378	1370
55	382	236	65	6	0	0	0	0	0	6	128	325	1148
50	255	151	23	0	0	0	0	0	0	1	64	209	703
32	19	9	0	0	0	0	0	0	0	0	0	12	40

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	369	467	774	971	1251	1417	1613	1579	1316	1042	666	426	11891
55	18	50	126	287	538	727	900	866	626	335	104	26	4603
57	12	36	91	234	476	667	838	804	566	278	77	17	4096
60	5	21	50	162	385	577	745	711	478	201	45	9	3389
65	0	7	13	73	244	428	590	556	337	97	15	1	2361
70	0	0	1	23	129	287	435	403	214	36	3	0	1531

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	177	278	504	720	993	1180	1369	1340	1077	792	425	215	177	455	959	1679	2672	3852	5221	6561	7638	8430	8855	9070
45	96	176	361	570	838	1030	1214	1185	927	637	299	117	96	272	633	1203	2041	3071	4285	5470	6397	7034	7333	7450
50	43	102	235	422	683	880	1059	1030	777	486	185	60	43	145	380	802	1485	2365	3424	4454	5231	5717	5902	5962
55	16	53	135	287	529	730	904	875	627	343	106	24	16	69	204	491	1020	1750	2654	3529	4156	4499	4605	4629
60	2	18	66	169	376	580	749	720	481	211	48	3	2	20	86	255	631	1211	1960	2680	3161	3372	3420	3423
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	140	201	332	468	655	793	877	853	705	515	276	161	140	341	673	1141	1796	2589	3466	4319	5024	5539	5815	5976

(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