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: FOLLETT, TX **COOP ID: 413225**

Climate Division: TX 1 **NWS Call Sign:** **Elevation: 2,769 Feet** **Lat: 36˚26N** **Lon: 100˚08W**

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	45.5	20.2	32.9	82+	1986	21	43.0	1986	-12+	1963	13	21.1	1979	997	0	.0	.0	13.9	6.5	28.7	1.3
Feb	51.5	24.6	38.1	87+	1981	21	47.3	1976	-12	1951	1	25.4	1978	754	0	.0	.0	16.7	4.1	22.0	.6
Mar	59.3	32.2	45.8	93+	1989	10	52.7	1986	-4	1960	3	38.8	1996	598	1	.0	.1	23.9	1.2	15.5	@
Apr	69.0	41.3	55.2	98	1989	24	62.9	1981	12	1997	12	45.6	1997	324	30	.0	.7	28.2	.2	4.9	.0
May	77.0	51.6	64.3	103+	2000	23	70.4	1974	28	1954	3	55.6	1995	119	97	.2	2.6	30.6	.0	.2	.0
Jun	86.1	61.5	73.8	111	1981	10	78.7	1981	42+	1998	7	67.8	1997	20	283	1.3	11.1	30.0	.0	.0	.0
Jul	91.4	66.0	78.7	109	1946	27	85.1	1980	46+	1940	4	72.2	1996	2	427	3.3	20.0	31.0	.0	.0	.0
Aug	90.3	65.0	77.7	110	1964	11	84.3	1983	47	1950	20	69.3	1996	7	399	2.9	18.7	31.0	.0	.0	.0
Sep	82.2	56.4	69.3	107	1939	3	75.1	1998	29	1985	30	61.8	1996	62	191	.9	8.4	29.8	.0	.2	.0
Oct	71.5	44.4	58.0	102	1938	1	63.5	1979	14	1993	31	51.2	1993	244	27	.0	1.1	30.0	.1	2.7	.0
Nov	57.1	31.8	44.5	88	1980	9	52.4	1999	3	1993	25	36.8	1972	617	0	.0	.0	21.4	.9	16.3	.0
Dec	47.4	23.3	35.4	84+	1955	25	40.4	1980	-13	1989	23	22.7	1983	919	0	.0	.0	14.5	4.6	27.4	.9
Ann	69.0	43.2	56.1	111	Jun 1981	10	85.1	Jul 1980	-13	Dec 1989	23	21.1	Jan 1979	4663	1455	8.6	62.7	301.0	17.6	117.9	2.8

\+ 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: 1930-2001

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

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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	.64	.49	2.25	1949	10	2.31	1979	.00+	2000
Feb	.97	.77	1.69	1960	4	3.41	1971	.00+	1991
Mar	2.22	2.11	2.70	2000	24	7.63	1973	.00+	1997
Apr	2.11	1.93	2.54	1939	5	8.11	1999	.02	1991
May	3.58	3.13	4.55	1951	16	9.17	1982	.69	1974
Jun	3.16	3.26	5.17	1957	22	6.58	1984	.03	1998
Jul	2.46	2.01	3.95	1944	25	9.05	1996	.14	1974
Aug	2.77	1.96	5.11	1986	15	8.61	1974	.00	2000
Sep	2.06	2.28	2.65	1941	29	5.72	1996	.00+	2000
Oct	1.49	.69	3.50	1998	31	6.88	2000	.00+	1977
Nov	1.22	.74	1.91	1971	17	3.50	1975	.00+	1999
Dec	.78	.51	1.72	1944	5	2.85	1984	.00	1996
Ann	23.46	23.76	5.17	Jun 1957	22	9.17	May 1982	.00+	Sep 2000

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	3.2	1.9	.2	.1
Feb	3.5	2.5	.6	.1
Mar	5.5	3.9	1.6	.7
Apr	5.5	3.5	1.7	.5
May	8.0	6.0	2.6	1.0
Jun	6.9	5.3	2.7	.8
Jul	5.5	4.1	1.7	.7
Aug	6.0	4.2	1.7	.9
Sep	5.3	3.7	1.6	.7
Oct	3.6	2.3	1.0	.3
Nov	3.8	2.5	.9	.2
Dec	3.3	2.3	.5	.1
Ann	60.1	42.2	16.8	6.1

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	.00	.00	.15	.25	.36	.49	.63	.80	1.03	1.41	1.79
Feb	.00	.00	.07	.21	.37	.58	.83	1.16	1.65	2.47	3.30
Mar	.00	.22	.61	.97	1.33	1.74	2.20	2.77	3.54	4.82	6.05
Apr	.13	.26	.52	.81	1.13	1.51	1.97	2.56	3.38	4.77	6.15
May	.77	1.10	1.62	2.10	2.58	3.09	3.66	4.35	5.26	6.70	8.07
Jun	.38	.62	1.07	1.51	1.98	2.50	3.11	3.86	4.89	6.57	8.21
Jul	.28	.47	.82	1.16	1.53	1.93	2.41	3.01	3.81	5.14	6.43
Aug	.12	.36	.77	1.18	1.61	2.11	2.68	3.40	4.39	6.03	7.63
Sep	.00	.18	.53	.85	1.20	1.57	2.02	2.55	3.30	4.52	5.72
Oct	.00	.03	.18	.37	.61	.90	1.28	1.77	2.49	3.74	5.01
Nov	.00	.00	.25	.45	.66	.90	1.18	1.53	1.99	2.78	3.54
Dec	.02	.07	.18	.29	.41	.56	.73	.95	1.25	1.77	2.28
Ann	17.35	18.55	20.08	21.23	22.25	23.23	24.24	25.35	26.69	28.63	30.30

\+ 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: 1930-2001
(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	4.1	2.0	#	#
Feb	5.3	3.0	#	#
Mar	3.8	.8	#	0
Apr	.8	.0	#	0
May	.1	.0	#	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	#	.0	0	0
Oct	#	.0	0	0
Nov	2.6	.5	#	0
Dec	3.8	3.0	#	0
Ann	20.5	9.3	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	6.0	1984	18	14.0+	1979	7	1974	3	2	1974
Feb	14.0	1971	22	30.0	1971	20	1971	23	4	1971
Mar	14.0	1988	16	30.0	1988	7	1987	23	1	1983
Apr	6.0	1983	5	10.5	1983	3+	1989	10	#+	1994
May	1.5	1978	4	2.5	1978	1	1978	3	#	1978
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	#	1984	29	#	1984	0	0	0	0	0
Oct	#	1993	30	#	1993	0	0	0	0	0
Nov	11.0	1992	25	17.8	1972	9	1972	21	2	1972
Dec	8.0	1992	5	16.5	1983	12	1987	13	1	1987
Ann	14.0+	Mar 1988	16	30.0+	Mar 1988	20	Feb 1971	23	4	Feb 1971

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	2.0	1.5	.4	.1	.0
Feb	1.8	1.5	.6	.2	@
Mar	1.0	.8	.5	.3	.1
Apr	.4	.3	.1	@	.0
May	.1	.1	.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	1.0	.7	.3	.2	.1
Dec	1.5	1.2	.4	.1	.0
Ann	7.8	6.1	2.3	.9	.2

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	2.9	1.4	.2	.0
Feb	1.6	.9	.5	.2
Mar	.4	.2	.1	.0
Apr	.2	.1	.0	.0
May	@	.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	.5	.2	.0
Dec	1.4	.3	.1	.0
Ann	7.2	3.4	1.1	.2

+ 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	5/11	5/06	5/02	4/29	4/27	4/24	4/21	4/17	4/12
32	4/30	4/26	4/22	4/20	4/17	4/14	4/11	4/08	4/03
28	4/19	4/14	4/10	4/07	4/05	4/02	3/30	3/26	3/22
24	4/08	4/03	3/31	3/28	3/26	3/23	3/20	3/17	3/12
20	4/05	3/29	3/24	3/19	3/15	3/11	3/07	3/02	2/23
16	3/29	3/20	3/14	3/09	3/04	2/27	2/22	2/16	2/08

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	9/23	9/29	10/03	10/07	10/10	10/14	10/17	10/21	10/27
32	10/03	10/09	10/14	10/18	10/21	10/25	10/28	11/02	11/08
28	10/18	10/23	10/27	10/31	11/03	11/06	11/09	11/13	11/18
24	10/28	11/03	11/07	11/11	11/14	11/18	11/21	11/26	12/01
20	11/05	11/11	11/16	11/20	11/23	11/27	12/01	12/06	12/12
16	11/09	11/17	11/22	11/26	12/01	12/05	12/09	12/14	12/22

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	189	181	175	171	166	161	157	151	143
32	210	202	196	191	186	182	177	171	163
28	233	226	220	216	211	207	202	197	189
24	255	247	242	237	233	229	224	219	211
20	279	270	263	258	252	247	242	235	226
16	303	292	284	277	271	264	257	249	238

***** 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.

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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	997	754	598	324	119	20	2	7	62	244	617	919	4663
60	842	622	449	214	54	5	0	1	23	136	474	764	3584
57	751	543	364	160	30	1	0	0	11	87	393	671	3011
55	690	492	310	128	19	0	0	0	7	63	341	611	2661
50	546	371	194	65	5	0	0	0	0	23	228	465	1897
32	146	84	9	0	0	0	0	0	0	0	20	86	345

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	173	254	434	694	1001	1254	1449	1415	1119	805	394	190	9182
55	4	17	22	132	307	564	736	702	435	155	26	2	3102
57	2	13	14	104	256	505	674	640	380	117	17	0	2722
60	0	7	6	68	187	418	581	548	302	73	8	0	2198
65	0	0	1	30	97	283	427	399	191	27	0	0	1455
70	0	0	0	10	39	171	284	263	107	6	0	0	880

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	50	125	252	473	759	1023	1212	1178	889	569	209	71	50	175	427	900	1659	2682	3894	5072	5961	6530	6739	6810
45	18	64	154	337	604	873	1057	1023	739	424	122	30	18	82	236	573	1177	2050	3107	4130	4869	5293	5415	5445
50	0	22	79	217	452	723	902	868	593	286	60	7	0	22	101	318	770	1493	2395	3263	3856	4142	4202	4209
55	0	7	34	122	311	574	747	713	448	169	20	0	0	7	41	163	474	1048	1795	2508	2956	3125	3145	3145
60	0	0	5	58	184	425	592	558	314	86	4	0	0	0	5	63	247	672	1264	1822	2136	2222	2226	2226
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	62	115	190	308	474	670	806	777	570	356	159	72	62	177	367	675	1149	1819	2625	3402	3972	4328	4487	4559

(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