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: ANGLETON 2 W, TX **COOP ID: 410257**

Climate Division: TX 8 **NWS Call Sign:** **Elevation: 27 Feet** **Lat: 29˚09N** **Lon: 95˚27W**

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	62.8	43.7	53.3	84	1935	13	60.9	1999	10+	1940	23	44.0	1978	387	15	.0	.0	27.1	.0	5.3	.0
Feb	65.9	46.9	56.4	88	1954	27	63.5	1999	14	1951	2	46.0	1978	263	21	.0	.0	25.8	.2	3.2	.0
Mar	72.1	53.6	62.9	93	1946	30	66.9	1974	21	1923	20	57.4	1978	120	54	.0	.0	30.5	.0	.9	.0
Apr	77.5	59.6	68.6	97	1951	22	72.3	1981	29	1920	5	65.2	1997	28	134	.0	.2	30.0	.0	@	.0
May	83.8	67.3	75.6	98	1996	30	80.6	1996	40	1929	3	71.8	1979	2	330	.0	2.0	31.0	.0	.0	.0
Jun	89.1	72.7	80.9	103	1967	27	83.9	1998	52	1919	4	78.1	1988	0	478	.0	14.5	30.0	.0	.0	.0
Jul	91.8	74.2	83.0	105+	1932	17	86.0	1980	59	1924	7	80.8	1989	0	559	.2	24.6	31.0	.0	.0	.0
Aug	91.9	73.7	82.8	103+	1962	13	85.4	1995	56	1967	13	79.4	1992	0	552	.5	24.0	31.0	.0	.0	.0
Sep	88.1	69.8	79.0	107	2000	5	82.5	1986	44+	1942	27	73.7	1974	0	418	.3	13.2	30.0	.0	.0	.0
Oct	81.2	60.3	70.8	99	1969	2	73.7	1971	24	1917	30	63.7	1976	17	197	.0	1.7	31.0	.0	@	.0
Nov	72.4	52.0	62.2	92	1934	1	69.0	1973	21	1976	30	54.2	1976	160	76	.0	.0	29.3	.0	.9	.0
Dec	65.1	45.2	55.2	85	1933	3	63.8	1984	7+	1989	24	44.8	1989	328	22	.0	.0	28.3	.2	3.5	.0
Ann	78.5	59.9	69.2	107	Sep 2000	5	86.0	Jul 1980	7+	Dec 1989	24	44.0	Jan 1978	1305	2856	1.0	80.2	355.0	.4	13.8	.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: 1913-2001

(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	4.76	4.36	4.86	1989	18	11.82	1991	.40	1971
Feb	3.50	2.76	4.34	1952	1	9.02	1983	.36	1996
Mar	3.76	2.60	8.40	1919	25	11.14	1985	.00	1978
Apr	3.74	2.83	8.62	1988	29	12.51	1991	.00	1983
May	5.20	5.06	8.30	1982	6	12.55	1982	.00	1978
Jun	6.44	4.72	12.36	1993	21	18.02	1973	1.00	1971
Jul	4.24	2.88	14.36	1979	26	22.13	1979	.25	1986
Aug	4.83	3.02	10.30	1981	31	16.83	1981	.25	1999
Sep	7.49	5.85	11.42	1998	11	21.03	1979	1.46	1992
Oct	4.25	2.55	10.65	1984	21	22.09	1984	.35	1972
Nov	4.86	4.22	6.70	1961	13	15.51	1974	.20	1988
Dec	4.17	3.37	11.00	1995	17	12.71	1995	.62	1989
Ann	57.24	56.31	14.36	Jul 1979	26	22.13	Jul 1979	.00+	Apr 1983

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	7.5	7.0	3.0	1.5
Feb	6.2	5.6	2.1	1.1
Mar	5.4	4.6	2.3	1.2
Apr	4.5	4.1	1.8	1.2
May	6.0	5.8	3.1	1.7
Jun	6.9	6.3	3.2	2.0
Jul	5.8	5.2	2.2	1.2
Aug	7.0	6.2	2.8	1.5
Sep	7.7	7.1	3.8	2.2
Oct	5.6	5.2	2.3	1.2
Nov	7.0	6.3	2.9	1.6
Dec	7.0	6.4	2.6	1.2
Ann	76.6	69.8	32.1	17.6

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	.87	1.30	1.99	2.64	3.30	4.01	4.82	5.80	7.10	9.20	11.20
Feb	.58	.89	1.40	1.88	2.37	2.91	3.52	4.27	5.27	6.89	8.43
Mar	.22	.58	1.16	1.71	2.30	2.95	3.70	4.63	5.90	7.98	10.00
Apr	.09	.33	.81	1.34	1.94	2.63	3.48	4.55	6.06	8.62	11.15
May	.67	1.33	2.21	2.95	3.69	4.47	5.36	6.41	7.80	10.01	12.10
Jun	.79	1.30	2.21	3.11	4.06	5.12	6.35	7.87	9.93	13.32	16.61
Jul	.18	.39	.86	1.41	2.07	2.85	3.82	5.08	6.86	9.95	13.05
Aug	.42	.75	1.40	2.07	2.80	3.64	4.63	5.88	7.60	10.48	13.31
Sep	1.51	2.19	3.29	4.29	5.31	6.40	7.63	9.11	11.08	14.22	17.20
Oct	.32	.59	1.14	1.73	2.38	3.13	4.02	5.16	6.73	9.38	11.99
Nov	.54	.91	1.59	2.27	2.99	3.81	4.76	5.94	7.55	10.21	12.80
Dec	.86	1.24	1.85	2.41	2.98	3.58	4.26	5.07	6.15	7.88	9.52
Ann	34.72	38.82	44.21	48.40	52.18	55.90	59.79	64.14	69.49	77.39	84.34

\+ 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: 1913-2001
(3) Derived from 1971-2000 serially complete daily data

Complete documentation available from:
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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
Feb	.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
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	2.0	1973	11	2.0	1973	2	1973	11	#	1973
Feb	.1	1994	1	.1	1994	#	1994	1	#	1994
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	.0	0	0	.0	0	0	0	0	0	0
Dec	#	1990	24	#+	1990	#	1990	24	#	1990
Ann	2.0	Jan 1973	11	2.0	Jan 1973	2	Jan 1973	11	#+	Feb 1994

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.1	.1	.0	.0	.0
Feb	.1	.0	.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	.2	.1	.0	.0	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	@	.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

+ 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	4/05	3/26	3/20	3/14	3/09	3/03	2/25	2/19	2/09
32	3/26	3/13	3/03	2/23	2/15	2/08	1/30	1/20	1/04
28	3/12	2/26	2/16	2/08	1/30	1/22	1/12	12/29	0/00
24	2/21	2/08	1/30	1/21	1/11	12/30	0/00	0/00	0/00
20	1/19	1/10	12/31	0/00	0/00	0/00	0/00	0/00	0/00
16	0/00	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	11/02	11/08	11/13	11/17	11/21	11/25	11/29	12/03	12/10
32	11/13	11/21	11/26	12/01	12/05	12/10	12/14	12/20	12/29
28	11/27	12/05	12/12	12/17	12/22	12/28	1/03	1/11	0/00
24	12/11	12/24	1/03	1/13	1/24	2/08	0/00	0/00	0/00
20	12/23	1/04	1/16	0/00	0/00	0/00	0/00	0/00	0/00
16	0/00	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	293	281	271	264	257	249	242	232	220
32	>365	321	308	299	290	283	274	265	252
28	>365	>365	356	338	326	315	305	293	278
24	>365	>365	>365	>365	>365	354	335	320	304
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	387	263	120	28	2	0	0	0	0	17	160	328	1305
60	263	161	47	4	0	0	0	0	0	3	85	209	772
57	203	115	23	0	0	0	0	0	0	1	52	154	548
55	169	88	13	0	0	0	0	0	0	0	36	122	428
50	94	37	2	0	0	0	0	0	0	0	12	56	201
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	658	683	957	1096	1351	1468	1582	1575	1408	1202	906	717	13603
55	114	126	257	406	638	778	869	862	718	490	252	125	5635
57	86	97	204	346	576	718	807	800	658	428	208	96	5024
60	53	60	136	260	483	628	714	707	568	338	151	58	4156
65	15	21	54	134	330	478	559	552	418	197	76	22	2856
70	9	7	13	50	190	328	404	397	271	87	29	7	1792

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	420	480	699	848	1088	1215	1324	1322	1163	950	669	477	420	900	1599	2447	3535	4750	6074	7396	8559	9509	10178	10655
45	286	350	547	698	933	1065	1169	1167	1013	795	521	333	286	636	1183	1881	2814	3879	5048	6215	7228	8023	8544	8877
50	185	227	403	548	778	915	1014	1012	863	640	380	211	185	412	815	1363	2141	3056	4070	5082	5945	6585	6965	7176
55	100	132	264	399	623	765	859	857	713	486	256	119	100	232	496	895	1518	2283	3142	3999	4712	5198	5454	5573
60	42	65	147	260	468	615	704	702	563	338	152	64	42	107	254	514	982	1597	2301	3003	3566	3904	4056	4120
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	250	285	436	557	769	860	923	915	812	641	420	285	250	535	971	1528	2297	3157	4080	4995	5807	6448	6868	7153

(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