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: CORSICANA, TX **COOP ID: 412019**

Climate Division: TX 5 **NWS Call Sign: CSAT** **Elevation: 413 Feet** **Lat: 32˚06N** **Lon: 96˚28W**

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	55.1	34.0	44.6	89	1952	1	51.9	1990	-5	1949	31	34.7	1978	638	0	.0	.0	20.5	1.4	14.3	.0
Feb	60.2	38.0	49.1	96	1996	22	56.3	1976	4+	1951	3	37.9	1978	452	7	.0	.1	22.3	1.0	7.8	.0
Mar	67.8	45.4	56.6	95+	1954	11	61.8	1974	12	1943	3	51.6	1996	268	8	.0	@	29.2	.1	2.6	.0
Apr	75.2	52.6	63.9	99	1963	10	68.8	1981	30+	1987	1	59.0	1983	93	59	.0	.4	29.9	.0	.2	.0
May	82.3	61.7	72.0	104	1928	27	77.6	1996	31	1903	1	67.7	1976	15	232	.1	3.2	31.0	.0	.0	.0
Jun	89.5	69.3	79.4	108+	1998	15	85.7	1998	41	1903	1	75.8	1983	0	431	.7	16.1	30.0	.0	.0	.0
Jul	94.5	72.9	83.7	113	1954	26	90.2	1998	56	1967	15	79.2	1976	0	580	4.4	27.0	31.0	.0	.0	.0
Aug	94.8	72.3	83.6	112	1909	18	88.1	1999	55+	1949	23	79.0	1992	0	575	4.6	26.5	31.0	.0	.0	.0
Sep	88.6	66.0	77.3	112	2000	5	81.9	1980	41+	1984	30	69.6	1974	2	371	.9	15.8	30.0	.0	.0	.0
Oct	78.9	55.3	67.1	101	1939	22	70.0	2000	27+	1993	31	59.4	1976	48	114	.0	2.9	30.9	.0	@	.0
Nov	66.5	44.3	55.4	91	1924	6	61.3	1973	19+	1976	30	48.2	1976	307	19	.0	.0	27.8	.0	3.3	.0
Dec	57.7	36.2	47.0	90+	1924	7	53.0	1984	-1	1989	23	36.2	1983	560	2	.0	.0	23.3	.8	10.7	@
Ann	75.9	54.0	65.0	113	Jul 1954	26	90.2	Jul 1998	-5	Jan 1949	31	34.7	Jan 1978	2383	2398	10.7	92.0	336.9	3.3	38.9	@

\+ 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: 1897-2001

(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	2.49	2.12	5.20	1998	6	8.72	1998	.05	1971
Feb	3.08	3.13	2.95	2000	26	7.10	1997	.23	1972
Mar	3.34	3.39	4.43	1990	30	9.67	1990	.25	1971
Apr	3.39	3.18	5.73	1963	29	9.44	1997	.06	1983
May	4.95	4.60	9.96	1968	10	13.60	1989	.26	1998
Jun	3.40	3.04	4.30	1939	20	8.08	1973	.28	1978
Jul	2.16	1.81	6.50	1903	30	5.52	1995	.00	1993
Aug	2.37	1.68	5.95	1915	18	9.85	1996	.00	2000
Sep	3.04	2.69	4.75	1957	22	7.65	1998	.04	1982
Oct	4.33	2.99	6.74	1962	9	11.06	1981	.07	1995
Nov	3.33	2.73	4.12	1998	13	9.63	2000	.57	1979
Dec	3.60	2.92	3.77	1913	3	10.06	1991	.32	1981
Ann	39.48	40.69	9.96	May 1968	10	13.60	May 1989	.00+	Aug 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	7.4	4.5	1.4	.5
Feb	6.6	4.8	2.2	1.1
Mar	7.5	5.1	2.1	1.3
Apr	6.4	4.8	2.5	1.0
May	9.0	6.2	3.3	1.7
Jun	7.5	5.4	2.2	.9
Jul	4.9	3.2	1.6	.7
Aug	5.1	3.4	1.5	.7
Sep	6.5	4.4	2.0	1.0
Oct	6.6	4.8	2.7	1.4
Nov	6.8	4.9	2.1	1.0
Dec	7.1	4.8	2.3	1.0
Ann	81.4	56.3	25.9	12.3

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	.25	.43	.77	1.11	1.49	1.91	2.41	3.04	3.90	5.33	6.72
Feb	.58	.86	1.31	1.72	2.15	2.60	3.12	3.75	4.58	5.92	7.19
Mar	.71	1.02	1.51	1.95	2.40	2.87	3.41	4.06	4.90	6.26	7.54
Apr	.44	.71	1.19	1.66	2.16	2.71	3.35	4.14	5.20	6.94	8.63
May	.88	1.32	2.04	2.72	3.41	4.15	5.00	6.03	7.40	9.61	11.72
Jun	.53	.82	1.31	1.78	2.26	2.79	3.40	4.15	5.14	6.77	8.32
Jul	.17	.40	.75	1.07	1.40	1.76	2.17	2.67	3.35	4.44	5.49
Aug	.03	.14	.40	.72	1.09	1.54	2.10	2.84	3.88	5.69	7.52
Sep	.24	.44	.83	1.25	1.71	2.25	2.88	3.69	4.81	6.68	8.53
Oct	.37	.66	1.24	1.84	2.50	3.25	4.14	5.27	6.82	9.42	11.97
Nov	.61	.91	1.39	1.85	2.31	2.81	3.37	4.06	4.97	6.43	7.83
Dec	.73	1.05	1.58	2.07	2.55	3.07	3.66	4.37	5.31	6.82	8.24
Ann	27.89	30.13	32.99	35.17	37.10	38.97	40.90	43.04	45.63	49.40	52.65

\+ 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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Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	.5	.0	#	0
Feb	.1	.0	#	0
Mar	.1	.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	.2	.0	#	0
Dec	.2	.0	#	0
Ann	1.1	.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	5.0	1977	31	5.0	1977	5	1977	31	#+	1988
Feb	1.0	1988	7	1.5	1988	5	1985	2	#+	1985
Mar	1.0	1989	5	1.0	1989	1	1989	6	#	1989
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	3.5	1976	13	3.5+	1976	4	1976	13	#	1976
Dec	3.0	1983	16	3.0	1983	1	1990	22	#+	2000
Ann	5.0	Jan 1977	31	5.0	Jan 1977	5+	Feb 1985	2	#+	Dec 2000

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.2	.1	.1	.1	.0
Feb	.1	.1	.0	.0	.0
Mar	.1	.1	.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	.1	.1	.1	.0	.0
Dec	.1	.1	.1	.0	.0
Ann	.6	.5	.3	.1	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.1	.1	@	.0
Feb	.0	.0	.0	.0
Mar	.1	.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
Dec	.0	.0	.0	.0
Ann	.2	.1	@	.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	4/10	4/04	3/31	3/27	3/24	3/20	3/17	3/12	3/06
32	4/02	3/24	3/18	3/13	3/09	3/04	2/27	2/21	2/13
28	3/14	3/07	3/01	2/24	2/20	2/16	2/11	2/06	1/29
24	3/03	2/21	2/14	2/08	2/02	1/27	1/20	1/11	12/26
20	2/18	2/09	2/03	1/29	1/24	1/18	1/11	12/28	0/00
16	2/05	1/26	1/17	1/08	12/27	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	10/27	11/01	11/04	11/07	11/10	11/12	11/15	11/18	11/23
32	11/04	11/11	11/15	11/19	11/23	11/27	12/01	12/06	12/12
28	11/13	11/20	11/26	12/01	12/05	12/09	12/14	12/19	12/27
24	11/21	11/28	12/03	12/08	12/13	12/17	12/22	12/29	1/10
20	12/09	12/18	12/24	12/30	1/05	1/11	1/19	2/02	0/00
16	12/23	1/02	1/11	1/20	2/04	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	251	244	239	234	230	226	222	216	209
32	285	276	270	264	259	254	248	241	232
28	315	306	299	293	287	281	276	269	259
24	>365	350	332	322	314	306	299	290	279
20	>365	>365	>365	>365	355	341	331	321	309
16	>365	>365	>365	>365	>365	>365	>365	352	333

***** 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	638	452	268	93	15	0	0	0	2	48	307	560	2383
60	495	325	144	29	2	0	0	0	0	13	193	417	1618
57	412	256	90	11	0	0	0	0	0	5	138	334	1246
55	359	216	62	5	0	0	0	0	0	2	108	284	1036
50	246	133	19	0	0	0	0	0	0	0	51	179	628
32	24	6	0	0	0	0	0	0	0	0	0	8	38

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	413	485	764	956	1240	1421	1603	1598	1359	1089	702	472	12102
55	35	51	112	270	527	731	890	885	669	378	120	35	4703
57	25	35	78	217	465	671	828	823	609	318	90	24	4183
60	15	20	39	145	374	581	735	730	519	233	55	13	3459
65	0	7	8	59	232	431	580	575	371	114	19	2	2398
70	0	0	0	15	119	284	425	420	235	38	4	0	1540

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	228	321	538	729	1002	1189	1362	1358	1123	851	479	274	228	549	1087	1816	2818	4007	5369	6727	7850	8701	9180	9454
45	137	214	394	579	847	1039	1207	1203	973	696	345	164	137	351	745	1324	2171	3210	4417	5620	6593	7289	7634	7798
50	72	126	262	431	692	889	1052	1048	823	542	227	87	72	198	460	891	1583	2472	3524	4572	5395	5937	6164	6251
55	28	64	155	292	537	739	897	893	673	396	133	40	28	92	247	539	1076	1815	2712	3605	4278	4674	4807	4847
60	8	25	75	173	383	589	742	738	525	260	68	15	8	33	108	281	664	1253	1995	2733	3258	3518	3586	3601
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	147	202	329	460	683	825	921	907	759	551	295	175	147	349	678	1138	1821	2646	3567	4474	5233	5784	6079	6254

(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