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: ANSON, TX **COOP ID: 410268**

Climate Division: TX 2 **NWS Call Sign:** **Elevation: 1,710 Feet** **Lat: 32˚46N** **Lon: 99˚54W**

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	55.5	30.7	43.1	87	2000	19	48.7	2000	3	1973	12	34.5	1979	679	0	.0	.0	22.4	1.9	16.3	.0
Feb	61.3	35.5	48.4	95	1996	22	57.4	1976	-4	1985	2	37.7	1989	473	8	.0	.1	23.1	.9	10.0	@
Mar	69.7	42.7	56.2	100	1971	27	63.2	1974	9	1980	2	49.7	1987	285	12	@	.9	29.5	.1	4.2	.0
Apr	78.4	51.0	64.7	100	1959	25	70.2	1972	26	1997	12	58.7	1997	97	87	.0	4.0	29.8	.0	.6	.0
May	86.0	60.5	73.3	113	2000	24	81.6	2000	36	1967	2	68.9	1992	25	280	1.8	11.7	31.0	.0	.0	.0
Jun	92.4	68.1	80.3	114	1994	27	85.5	1998	50	1964	1	74.5	1989	1	459	4.2	21.2	30.0	.0	.0	.0
Jul	96.3	71.9	84.1	110+	1978	18	90.0	1980	58+	1995	1	79.1	1976	0	592	8.8	27.9	31.0	.0	.0	.0
Aug	95.1	70.8	83.0	108+	1969	13	88.9	1999	50	1989	9	77.2	1971	0	557	6.9	26.1	31.0	.0	.0	.0
Sep	87.8	63.9	75.9	109	2000	5	83.3	1977	32	1989	24	68.9	1974	9	334	1.6	14.9	30.0	.0	@	.0
Oct	78.3	53.5	65.9	104	2000	2	72.7	1979	24	1993	31	58.2	1976	79	107	.2	3.5	30.8	.0	.3	.0
Nov	65.9	41.2	53.6	92	1980	8	60.6	1999	14	1976	14	46.9	1972	354	12	.0	@	27.0	.1	5.4	.0
Dec	57.2	32.7	45.0	85	1966	7	50.0	1977	-12	1989	23	32.9	1983	622	0	.0	.0	23.7	1.1	13.3	.1
Ann	77.0	51.9	64.5	114	Jun 1994	27	90.0	Jul 1980	-12	Dec 1989	23	32.9	Dec 1983	2624	2448	23.5	110.3	339.3	4.1	50.1	.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: 1898-2001

(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	1.03	.77	1.87	1992	21	4.60	1992	.00	1976
Feb	1.51	1.01	2.70	1989	16	7.35	1992	.00+	1999
Mar	1.21	.93	1.95	1990	11	3.30	1990	.03	1971
Apr	1.94	1.68	3.01	1971	16	4.74	1990	.03	1998
May	3.20	3.32	3.80	1971	28	12.28	1982	.06	1998
Jun	3.13	2.05	3.88	1961	3	8.67	1991	.08	1994
Jul	2.04	1.38	3.40+	1976	11	9.99	1992	.00+	1980
Aug	2.94	2.57	5.45	1978	3	12.78	1971	.00	2000
Sep	3.93	3.31	5.60	1988	18	13.32	1980	.00	1998
Oct	2.55	1.81	4.56	1959	3	7.47	1986	.13	1992
Nov	1.22	.77	2.43	1975	2	3.69	1984	.00	1999
Dec	1.30	.81	2.67	1991	20	6.60	1991	.00+	1996
Ann	26.00	25.32	5.60	Sep 1988	18	13.32	Sep 1980	.00+	Aug 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	3.7	2.6	.7	.2
Feb	4.2	3.0	.9	.3
Mar	4.3	3.0	.7	.2
Apr	4.5	3.2	1.4	.7
May	6.0	4.7	2.1	1.0
Jun	5.8	4.4	2.1	1.2
Jul	3.9	2.9	1.5	.6
Aug	5.1	3.7	1.6	.8
Sep	5.4	4.3	2.2	1.2
Oct	5.3	4.0	2.0	.9
Nov	3.8	2.4	.7	.2
Dec	4.1	2.6	.8	.3
Ann	56.1	40.8	16.7	7.6

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	.02	.09	.22	.37	.53	.72	.96	1.25	1.67	2.37	3.06
Feb	.00	.10	.34	.57	.82	1.11	1.45	1.86	2.45	3.42	4.38
Mar	.12	.21	.38	.55	.73	.93	1.17	1.47	1.88	2.56	3.22
Apr	.27	.43	.71	.98	1.26	1.57	1.93	2.37	2.97	3.94	4.88
May	.34	.58	1.02	1.46	1.94	2.48	3.12	3.91	4.99	6.78	8.53
Jun	.30	.53	.95	1.39	1.86	2.39	3.03	3.82	4.90	6.71	8.47
Jul	.00	.07	.32	.61	.95	1.35	1.84	2.47	3.37	4.91	6.46
Aug	.15	.42	.87	1.30	1.76	2.28	2.88	3.62	4.64	6.31	7.95
Sep	.13	.43	.98	1.55	2.17	2.89	3.74	4.81	6.30	8.79	11.24
Oct	.13	.27	.58	.92	1.31	1.78	2.35	3.08	4.11	5.86	7.62
Nov	.03	.10	.26	.43	.62	.85	1.12	1.48	1.97	2.81	3.64
Dec	.00	.02	.12	.28	.48	.73	1.06	1.51	2.17	3.34	4.54
Ann	14.85	16.83	19.46	21.53	23.41	25.26	27.20	29.39	32.10	36.12	39.67

\+ 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: 1898-2001
(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	1.7	.3	#	0
Feb	.3	.0	#	0
Mar	.4	.0	#	0
Apr	.6	.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	.5	.0	#	0
Dec	.8	.0	#	0
Ann	4.3	.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	4.3	1996	1	7.6	1985	4	1996	2	1	1985
Feb	1.5	1997	13	2.0	1997	5	1987	20	#+	1997
Mar	5.0	1989	5	6.5	1989	4	1989	5	#+	1998
Apr	9.8	1996	5	9.8	1996	8	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	4.5	1995	28	4.5	1995	1	1996	24	#+	2000
Dec	4.5	1997	26	4.5	1997	3+	2000	27	#+	2000
Ann	9.8	Apr 1996	5	9.8	Apr 1996	8	Apr 1996	5	1	Jan 1985

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.8	.6	.2	.0	.0
Feb	.3	.1	.0	.0	.0
Mar	.3	.1	.1	.1	.0
Apr	.1	.1	.1	.1	.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	.2	.1	.1	.0	.0
Dec	.5	.4	.1	.0	.0
Ann	2.2	1.4	.6	.2	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.4	.2	.0	.0
Feb	.2	.0	.0	.0
Mar	.2	.1	.0	.0
Apr	.1	@	@	.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	.3	.1	.0	.0
Ann	1.2	.4	@	.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	4/14	4/10	4/07	4/05	4/03	4/01	3/29	3/27	3/23
32	4/12	4/07	4/03	3/31	3/28	3/25	3/22	3/18	3/13
28	4/03	3/26	3/20	3/15	3/10	3/06	3/01	2/23	2/15
24	3/21	3/12	3/06	2/28	2/23	2/18	2/12	2/06	1/28
20	3/11	3/01	2/21	2/15	2/09	2/03	1/27	1/20	1/09
16	2/26	2/14	2/05	1/28	1/20	1/10	12/27	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	10/16	10/22	10/27	10/31	11/03	11/07	11/11	11/15	11/22
32	10/23	10/30	11/04	11/08	11/12	11/16	11/20	11/25	12/01
28	10/30	11/06	11/11	11/16	11/20	11/24	11/28	12/03	12/10
24	11/03	11/13	11/21	11/27	12/03	12/09	12/16	12/23	1/03
20	11/14	11/26	12/05	12/13	12/20	12/27	1/04	1/13	1/26
16	11/29	12/09	12/16	12/23	12/30	1/07	1/23	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	234	227	222	218	214	210	205	200	193
32	253	244	238	233	228	224	219	213	204
28	281	272	265	259	254	248	242	236	226
24	316	303	294	287	281	274	267	259	248
20	>365	345	328	317	308	299	290	280	266
16	>365	>365	>365	>365	356	338	324	311	295

***** 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	679	473	285	97	25	1	0	0	9	79	354	622	2624
60	529	347	164	36	7	0	0	0	1	29	230	475	1818
57	443	279	109	16	2	0	0	0	0	12	169	389	1419
55	387	238	80	9	0	0	0	0	0	7	134	335	1190
50	261	153	30	0	0	0	0	0	0	1	67	216	728
32	21	9	0	0	0	0	0	0	0	0	0	13	43

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	365	469	750	980	1278	1448	1615	1580	1314	1051	648	413	11911
55	18	53	116	299	565	758	902	867	624	344	92	23	4661
57	13	38	84	246	505	698	840	805	564	288	67	15	4163
60	5	22	45	176	417	608	747	712	475	211	38	7	3463
65	0	8	12	87	280	459	592	557	334	107	12	0	2448
70	0	0	1	33	168	315	437	403	208	42	2	0	1609

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	217	325	554	768	1053	1223	1382	1342	1088	824	449	248	217	542	1096	1864	2917	4140	5522	6864	7952	8776	9225	9473
45	123	214	409	618	898	1073	1227	1187	938	669	318	148	123	337	746	1364	2262	3335	4562	5749	6687	7356	7674	7822
50	62	127	276	473	743	923	1072	1032	788	521	207	74	62	189	465	938	1681	2604	3676	4708	5496	6017	6224	6298
55	23	66	168	337	588	773	917	877	640	375	114	30	23	89	257	594	1182	1955	2872	3749	4389	4764	4878	4908
60	0	27	85	214	437	623	762	722	494	240	55	8	0	27	112	326	763	1386	2148	2870	3364	3604	3659	3667
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	158	222	358	497	691	816	908	891	726	528	284	169	158	380	738	1235	1926	2742	3650	4541	5267	5795	6079	6248

(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

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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