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: ANAHUAC, TX **COOP ID: 410235**

Climate Division: TX 8 **NWS Call Sign:** **Elevation: 24 Feet** **Lat: 29˚47N** **Lon: 94˚40W**

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	61.2	41.7	51.5	86+	1946	10	57.2	1972	11	1940	19	43.3	1977	431	5	.0	.0	26.0	.1	5.2	.0
Feb	64.7	44.8	54.8	85	1954	28	60.8	2000	12+	1951	3	44.3	1978	300	12	.0	.0	25.5	.2	3.1	.0
Mar	71.5	51.8	61.7	93	1974	20	65.6+	2000	23+	1943	4	56.3	1996	140	37	.0	@	30.3	.0	.7	.0
Apr	77.4	58.2	67.8	93	1987	29	72.7	1981	34	1940	13	63.5	1997	38	121	.0	.2	30.0	.0	.0	.0
May	84.0	66.3	75.2	97+	1980	28	77.8	1998	43	1954	4	72.4	1993	1	315	.0	2.7	31.0	.0	.0	.0
Jun	89.6	72.3	81.0	102	1984	26	83.5	1998	56+	1984	1	78.6	1974	0	479	.1	16.1	30.0	.0	.0	.0
Jul	91.9	74.4	83.2	110	1943	7	86.0	1980	60	1967	17	79.7	1972	0	562	.6	24.5	31.0	.0	.0	.0
Aug	92.1	73.5	82.8	103	1980	23	86.3	1999	60+	1992	17	79.2	1992	0	551	.6	24.5	31.0	.0	.0	.0
Sep	88.6	68.9	78.8	105+	2000	5	82.5	1986	45	1942	27	74.6	1974	0	412	.3	14.3	30.0	.0	.0	.0
Oct	81.1	58.9	70.0	100	1982	3	74.4	1984	33	1993	31	61.7	1976	28	184	@	1.9	31.0	.0	.0	.0
Nov	71.4	50.5	61.0	89+	1986	11	66.8	1985	23	1938	25	52.9	1976	181	59	.0	.0	29.4	.0	.7	.0
Dec	63.6	43.8	53.7	87	1970	4	63.4	1984	8	1989	23	44.0	1989	365	16	.0	.0	28.0	.2	3.5	.0
Ann	78.1	58.8	68.5	110	Jul 1943	7	86.3	Aug 1999	8	Dec 1989	23	43.3	Jan 1977	1484	2753	1.6	84.2	353.2	.5	13.2	.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: 1909-2001

(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	4.84	4.78	6.26	1998	22	12.65	1998	.65	1971
Feb	2.83	2.43	4.40	1952	2	6.66	1985	.40	1989
Mar	3.33	2.44	7.55	2001	28	8.46	1973	.52	1978
Apr	3.56	3.20	6.03	1966	14	12.59	1973	.09	1987
May	5.22	4.99	7.00	1946	15	9.92	1995	.00	1998
Jun	5.88	4.79	13.25	1946	1	20.34	1989	.79	1990
Jul	4.59	4.02	11.45	1943	29	13.43	1979	.41	1986
Aug	4.74	3.32	15.87	1945	28	12.36+	1996	.97	2000
Sep	6.42	6.18	5.70	1950	4	16.00	1998	.21	1982
Oct	4.06	3.31	9.90	1920	22	11.78	1994	.17	1987
Nov	4.31	3.78	10.00	1946	4	9.78	1986	.50	1999
Dec	4.30	3.84	6.55	1995	18	13.53	1982	.88	1989
Ann	54.08	54.05	15.87	Aug 1945	28	20.34	Jun 1989	.00	May 1998

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.1	6.8	3.3	1.3
Feb	8.2	4.8	1.9	.7
Mar	8.4	4.9	2.2	.9
Apr	6.6	3.8	1.9	1.2
May	7.4	5.4	3.3	1.7
Jun	8.9	6.7	3.2	1.7
Jul	9.4	6.5	3.0	1.4
Aug	10.1	7.2	2.9	1.3
Sep	9.6	7.2	3.7	2.1
Oct	6.6	4.9	2.4	1.4
Nov	7.9	5.7	2.8	1.4
Dec	9.3	6.0	2.5	1.2
Ann	102.5	69.9	33.1	16.3

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	1.15	1.60	2.31	2.94	3.57	4.24	4.98	5.87	7.03	8.88	10.62
Feb	.62	.88	1.30	1.67	2.05	2.45	2.90	3.44	4.15	5.29	6.36
Mar	.61	.91	1.40	1.85	2.31	2.81	3.37	4.06	4.97	6.43	7.82
Apr	.28	.51	.98	1.47	2.01	2.64	3.38	4.33	5.63	7.82	9.99
May	.52	1.13	1.99	2.75	3.52	4.35	5.30	6.44	7.96	10.41	12.75
Jun	.86	1.35	2.19	3.01	3.86	4.79	5.86	7.18	8.95	11.83	14.61
Jul	.75	1.14	1.81	2.44	3.09	3.80	4.62	5.61	6.93	9.08	11.14
Aug	.81	1.23	1.92	2.57	3.23	3.96	4.78	5.78	7.12	9.28	11.35
Sep	1.00	1.54	2.47	3.36	4.28	5.28	6.44	7.85	9.73	12.80	15.75
Oct	.33	.61	1.14	1.71	2.33	3.03	3.88	4.94	6.42	8.88	11.31
Nov	.84	1.23	1.86	2.44	3.03	3.66	4.38	5.24	6.39	8.22	9.97
Dec	1.13	1.54	2.17	2.71	3.25	3.82	4.45	5.19	6.17	7.70	9.13
Ann	35.94	39.36	43.79	47.19	50.23	53.19	56.26	59.68	63.85	69.94	75.25

\+ 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: 1909-2001
(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	#	.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
Dec	#	.0	0	0
Ann	#	.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	#	1978	20	#+	1978	#+	1978	20	#+	1978
Feb	.5	1980	2	.5	1980	#	1988	6	#	1988
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	#	1976	29	#	1976	0	0	0	0	0
Dec	#	1989	23	#	1989	0	0	0	0	0
Ann	.5	Feb 1980	2	.5	Feb 1980	#+	Feb 1988	6	#+	Feb 1988

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.0	.0	.0	.0	.0
Feb	@	.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	@	.0	.0	.0	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.0	.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	.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	3/25	3/18	3/13	3/09	3/04	2/28	2/24	2/19	2/12
32	3/16	3/05	2/25	2/18	2/12	2/06	1/30	1/22	1/11
28	3/01	2/17	2/09	2/01	1/25	1/17	1/07	12/24	0/00
24	2/08	1/27	1/17	1/06	12/23	0/00	0/00	0/00	0/00
20	1/09	12/30	0/00	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	11/10	11/15	11/19	11/23	11/27	12/01	12/06	12/13
32	11/15	11/24	11/30	12/05	12/09	12/14	12/19	12/25	1/03
28	11/27	12/06	12/12	12/18	12/23	12/29	1/05	1/16	0/00
24	12/19	1/02	1/13	1/24	2/09	0/00	0/00	0/00	0/00
20	1/01	1/11	0/00	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	289	280	274	268	263	258	252	245	236
32	338	323	314	306	299	292	284	275	263
28	>365	>365	>365	344	332	323	314	304	292
24	>365	>365	>365	>365	>365	>365	>365	354	324
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	431	300	140	38	1	0	0	0	0	28	181	365	1484
60	297	187	57	7	0	0	0	0	0	6	99	239	892
57	228	134	27	2	0	0	0	0	0	2	62	177	632
55	189	104	16	0	0	0	0	0	0	1	43	143	496
50	109	46	3	0	0	0	0	0	0	0	15	70	243
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	604	636	919	1073	1338	1469	1585	1574	1402	1179	869	673	13321
55	80	96	222	383	625	779	872	861	712	467	222	103	5422
57	57	69	172	325	563	719	810	799	652	406	181	76	4829
60	33	38	108	240	470	629	717	706	562	317	127	44	3991
65	5	12	37	121	315	479	562	551	412	184	59	16	2753
70	0	0	7	43	171	329	407	396	265	82	21	3	1724

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	383	446	682	841	1097	1242	1345	1335	1171	941	642	445	383	829	1511	2352	3449	4691	6036	7371	8542	9483	10125	10570
45	257	316	531	691	942	1092	1190	1180	1021	786	494	307	257	573	1104	1795	2737	3829	5019	6199	7220	8006	8500	8807
50	155	202	384	541	787	942	1035	1025	871	632	351	192	155	357	741	1282	2069	3011	4046	5071	5942	6574	6925	7117
55	79	109	247	394	632	792	880	870	721	477	233	107	79	188	435	829	1461	2253	3133	4003	4724	5201	5434	5541
60	32	48	126	256	477	642	725	715	571	326	131	53	32	80	206	462	939	1581	2306	3021	3592	3918	4049	4102
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	218	259	420	553	777	880	939	927	817	628	397	258	218	477	897	1450	2227	3107	4046	4973	5790	6418	6815	7073

(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