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: COLEMAN, TX **COOP ID: 411875**

Climate Division: TX 2 **NWS Call Sign:** **Elevation: 1,727 Feet** **Lat: 31˚49N** **Lon: 99˚25W**

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	56.6	30.0	43.3	90+	1943	23	49.8	2000	-5	1930	18	33.3	1979	673	0	.0	.0	23.6	1.2	15.4	.0
Feb	62.1	35.0	48.6	99	1996	22	56.0	1976	-1	1933	8	39.0	1978	464	4	.0	.2	23.9	.6	8.3	.0
Mar	69.5	42.2	55.9	100+	1928	28	61.9	1974	9+	1980	2	50.7	1987	293	9	.0	.9	29.9	.1	3.4	.0
Apr	77.5	51.3	64.4	104	1925	18	68.8	1978	25	1938	8	58.6	1997	92	74	.0	3.6	29.9	.0	.4	.0
May	83.7	60.1	71.9	110	2000	25	78.8	2000	36	1954	4	67.9	1976	21	234	.7	9.5	31.0	.0	.0	.0
Jun	89.7	66.8	78.3	110	1948	6	82.7	1990	41	1919	3	75.2	1983	0	398	1.9	20.0	30.0	.0	.0	.0
Jul	93.7	69.8	81.8	113+	1944	27	86.5	1978	54	1975	27	76.0	1976	0	519	6.1	27.1	31.0	.0	.0	.0
Aug	93.2	69.0	81.1	114	1943	3	85.9	1999	50	1916	24	75.1	1971	0	500	5.4	26.0	31.0	.0	.0	.0
Sep	87.1	62.4	74.8	111	1952	1	80.8	1977	36	1984	30	66.2	1974	10	302	1.4	15.1	30.0	.0	.0	.0
Oct	78.2	51.8	65.0	104	1937	5	70.7	1979	25	1993	31	56.0	1976	91	91	.1	3.4	30.8	.0	.2	.0
Nov	66.4	40.4	53.4	96	1934	1	59.2	1999	11+	1959	17	45.2	1976	360	11	.0	@	27.8	.0	4.8	.0
Dec	58.1	32.1	45.1	93	1955	24	49.5	1996	-4	1989	23	34.9	1983	618	0	.0	.0	25.3	.9	12.3	@
Ann	76.3	50.9	63.6	114	Aug 1943	3	86.5	Jul 1978	-5	Jan 1930	18	33.3	Jan 1979	2622	2142	15.6	105.8	344.2	2.8	44.8	@

\+ 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: 1896-2001

(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	.79	3.24	1961	7	3.05	1991	.00	1986
Feb	1.75	1.29	3.25	1992	25	7.27	1992	.00	1999
Mar	1.84	1.86	2.85	1998	16	5.22	1979	.00+	1972
Apr	2.19	1.87	4.30	1990	26	6.38	1990	.04	1998
May	4.11	3.35	7.26	1956	1	11.75	1994	.61	1977
Jun	4.05	3.45	4.10	1906	3	12.86	2000	.00	1994
Jul	1.77	1.60	8.55	1932	2	6.87	1990	.00+	1997
Aug	2.58	2.02	5.50	1978	3	10.03	1978	.00	2000
Sep	3.25	2.78	6.70	1903	29	13.56	1980	.03	1979
Oct	3.08	2.52	5.22	1930	6	9.77	1974	.00	1980
Nov	1.57	1.23	4.00	1913	23	4.74	2000	.05	1988
Dec	1.48	1.06	5.25	1991	20	10.90	1991	.00+	1996
Ann	28.70	27.12	8.55	Jul 1932	2	13.56	Sep 1980	.00+	Aug 2000

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	4.7	2.5	.6	.2
Feb	4.7	3.1	1.1	.5
Mar	5.2	3.1	1.3	.5
Apr	5.0	3.5	1.6	.7
May	7.2	5.4	2.7	1.4
Jun	5.8	4.5	2.4	1.3
Jul	4.3	2.8	1.1	.5
Aug	5.2	3.8	1.6	.7
Sep	5.7	4.3	2.0	1.1
Oct	5.4	3.9	1.9	1.0
Nov	4.3	2.8	1.1	.5
Dec	4.9	2.9	.7	.4
Ann	62.4	42.6	18.1	8.8

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	.04	.12	.26	.41	.57	.76	.98	1.26	1.64	2.28	2.92
Feb	.06	.20	.45	.70	.98	1.30	1.67	2.14	2.79	3.88	4.95
Mar	.00	.26	.61	.91	1.20	1.52	1.88	2.30	2.88	3.81	4.70
Apr	.30	.48	.79	1.10	1.42	1.77	2.17	2.67	3.35	4.45	5.52
May	.78	1.14	1.75	2.30	2.87	3.48	4.17	5.01	6.12	7.90	9.59
Jun	.41	.89	1.56	2.15	2.75	3.39	4.12	5.00	6.18	8.06	9.87
Jul	.00	.13	.41	.68	.98	1.31	1.70	2.19	2.86	3.99	5.10
Aug	.10	.30	.67	1.04	1.45	1.92	2.47	3.16	4.11	5.70	7.26
Sep	.12	.27	.62	1.04	1.54	2.14	2.89	3.87	5.27	7.69	10.13
Oct	.09	.31	.72	1.16	1.66	2.22	2.90	3.77	4.96	6.98	8.98
Nov	.08	.17	.35	.56	.80	1.09	1.44	1.89	2.52	3.60	4.68
Dec	.00	.00	.12	.31	.55	.85	1.24	1.75	2.49	3.80	5.13
Ann	18.27	20.20	22.72	24.67	26.42	28.12	29.90	31.89	34.32	37.89	41.01

\+ 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: 1896-2001
(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	1.0	.0	#	#
Feb	.7	.0	#	0
Mar	.3	.0	#	0
Apr	#	.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
Nov	.1	.0	#	0
Dec	.5	.0	#	0
Ann	2.6	.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	6.0	1978	22	6.0	1978	6	1978	22	#+	1997
Feb	4.0	1994	1	4.0	1994	3	1994	1	#+	1997
Mar	5.0	1989	5	5.0	1989	1	1978	4	#+	1998
Apr	#	1996	6	#+	1996	#+	1996	6	#+	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	#	1980	28	#	1980	0	0	0	0	0
Nov	1.0	1996	25	1.3	1980	1	1997	15	#+	2000
Dec	3.5	1986	12	6.5	1986	4	1986	12	#+	2000
Ann	6.0	Jan 1978	22	6.5	Dec 1986	6	Jan 1978	22	#+	Dec 2000

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.7	.5	.2	.1	.0
Feb	.5	.2	.1	.0	.0
Mar	.1	.1	@	@	.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	@	.0	.0	.0
Dec	.4	.1	.1	.0	.0
Ann	1.8	.9	.4	.1	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.4	.1	.1	.0
Feb	.2	.1	.0	.0
Mar	@	.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	.2	.1	.0	.0
Ann	.8	.3	.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	4/13	4/09	4/06	4/04	4/01	3/30	3/28	3/25	3/21
32	4/08	4/02	3/29	3/26	3/23	3/20	3/17	3/13	3/07
28	4/02	3/23	3/16	3/11	3/05	2/28	2/22	2/15	2/05
24	3/16	3/06	2/27	2/22	2/16	2/11	2/05	1/29	1/20
20	3/03	2/19	2/09	2/01	1/25	1/16	1/06	12/22	0/00
16	2/20	2/10	2/02	1/27	1/20	1/12	12/31	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	10/19	10/25	10/30	11/02	11/06	11/09	11/12	11/17	11/23
32	10/28	11/03	11/06	11/10	11/13	11/16	11/19	11/23	11/28
28	11/02	11/09	11/14	11/18	11/22	11/26	11/30	12/05	12/12
24	11/18	11/25	12/01	12/05	12/09	12/13	12/18	12/23	12/30
20	11/21	11/30	12/06	12/11	12/16	12/22	12/28	1/07	0/00
16	12/10	12/20	12/27	1/03	1/10	1/18	2/03	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	239	231	226	222	217	213	209	203	196
32	252	246	241	238	234	230	226	222	215
28	296	284	275	268	261	255	247	239	227
24	330	318	309	302	295	288	281	272	261
20	>365	>365	>365	340	325	315	306	296	284
16	>365	>365	>365	>365	>365	347	333	320	304

***** 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	673	464	293	92	21	0	0	0	10	91	360	618	2622
60	527	335	167	31	4	0	0	0	1	34	235	465	1799
57	441	264	110	13	1	0	0	0	0	15	172	380	1396
55	386	221	79	6	0	0	0	0	0	9	137	324	1162
50	264	135	28	0	0	0	0	0	0	2	68	201	698
32	25	5	0	0	0	0	0	0	0	0	0	7	37

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	376	468	739	972	1236	1388	1542	1523	1282	1023	642	412	11603
55	24	41	105	288	523	698	829	810	592	319	88	16	4333
57	17	27	73	235	462	638	767	748	532	264	64	10	3837
60	9	15	38	163	373	548	674	655	443	189	36	2	3145
65	0	4	9	74	234	398	519	500	302	91	11	0	2142
70	0	0	0	23	125	253	364	347	180	32	2	0	1326

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	250	348	580	779	1035	1185	1328	1307	1083	839	475	280	250	598	1178	1957	2992	4177	5505	6812	7895	8734	9209	9489
45	147	232	430	629	880	1035	1173	1152	933	685	340	169	147	379	809	1438	2318	3353	4526	5678	6611	7296	7636	7805
50	78	138	296	482	725	885	1018	997	783	531	220	84	78	216	512	994	1719	2604	3622	4619	5402	5933	6153	6237
55	30	68	181	342	570	735	863	842	634	385	123	35	30	98	279	621	1191	1926	2789	3631	4265	4650	4773	4808
60	4	29	92	212	416	585	708	687	487	245	60	5	4	33	125	337	753	1338	2046	2733	3220	3465	3525	3530
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	182	237	375	501	687	796	871	859	717	543	300	191	182	419	794	1295	1982	2778	3649	4508	5225	5768	6068	6259

(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