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: CLARKSVILLE 2 NE, TX **COOP ID: 411772**

Climate Division: TX 4 **NWS Call Sign:** **Elevation: 435 Feet** **Lat: 33˚37N** **Lon: 95˚04W**

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	51.7	29.7	40.7	92	1911	11	46.5	1990	-7	1930	18	30.1	1977	753	0	.0	.0	18.4	1.8	20.2	.0
Feb	57.5	34.3	45.9	90	1996	22	54.2	1999	-5	1951	2	34.2	1978	536	2	.0	@	20.8	1.0	13.8	.0
Mar	65.7	42.6	54.2	96	1908	19	60.0	1974	9	1943	3	48.9	1996	344	7	.0	.0	28.7	.1	5.9	.0
Apr	73.4	50.5	62.0	96	1930	7	66.9	1981	26	1989	11	56.7	1997	135	44	.0	.3	29.9	.0	.8	.0
May	80.1	60.9	70.5	100+	1934	19	75.1	1974	35	1903	1	66.7	1976	25	195	.0	1.2	31.0	.0	.0	.0
Jun	87.5	68.9	78.2	106	1933	23	81.9	1998	45+	1983	1	74.5	1983	0	396	.1	12.2	30.0	.0	.0	.0
Jul	92.2	72.2	82.2	110	1933	11	88.5	1998	52	1936	3	78.8	1989	0	533	2.4	24.0	31.0	.0	.0	.0
Aug	92.5	70.9	81.7	115	1936	10	85.7	1998	52+	1986	29	76.4	1992	0	519	3.1	23.4	31.0	.0	.0	.0
Sep	85.8	63.9	74.9	108	1998	5	81.3	1998	36	1942	27	67.2	1974	13	308	.8	10.8	30.0	.0	.0	.0
Oct	76.2	51.8	64.0	100	1938	1	68.0	1971	23	1993	31	55.9	1976	108	76	.0	1.3	30.9	.0	.6	.0
Nov	63.5	41.0	52.3	92	1909	2	58.6	1999	8	1976	29	43.9	1976	391	10	.0	.0	26.9	@	7.5	.0
Dec	54.4	32.6	43.5	89	1933	22	51.5	1984	2+	1989	24	32.6	1983	667	0	.0	.0	21.2	1.0	16.5	.0
Ann	73.4	51.6	62.5	115	Aug 1936	10	88.5	Jul 1998	-7	Jan 1930	18	30.1	Jan 1977	2972	2090	6.4	73.2	329.8	3.9	65.3	.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: 1903-2001

(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	2.65	2.58	4.73	1969	30	7.28	1998	.30	1986
Feb	3.17	3.36	3.94	1927	28	10.08	1997	.36	1999
Mar	4.50	3.93	6.15	1945	29	14.75	1990	.80	1974
Apr	4.02	3.78	4.92	1986	4	9.70	1991	.09	1987
May	5.43	4.87	8.30	1933	22	14.53	1982	.23	1988
Jun	4.00	2.75	4.56	1938	8	11.32	2000	.00	1998
Jul	3.23	2.44	4.25	1992	19	16.07	1992	.10	1993
Aug	2.07	1.88	4.10	1919	23	5.48	1982	.00	1985
Sep	3.83	3.13	5.26	1980	29	11.63	1974	.40	1982
Oct	4.99	4.17	7.45	1955	1	12.38	1981	.52	1999
Nov	5.43	4.37	5.50	1956	4	17.27	2000	.10	1995
Dec	4.51	3.89	4.76	1982	3	11.56	1971	.19	1981
Ann	47.83	48.34	8.30	May 1933	22	17.27	Nov 2000	.00+	Jun 1998

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	6.5	4.8	2.1	.7
Feb	6.0	4.7	2.4	1.0
Mar	7.5	6.1	3.2	1.6
Apr	7.6	5.6	2.9	1.4
May	8.3	6.7	3.4	1.6
Jun	6.5	5.0	2.8	1.3
Jul	5.0	4.1	2.2	1.0
Aug	4.4	3.4	1.3	.6
Sep	5.7	4.7	2.4	1.4
Oct	6.8	5.2	3.2	1.7
Nov	6.8	5.6	3.4	2.0
Dec	6.9	5.7	2.8	1.3
Ann	78.0	61.6	32.1	15.6

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	.43	.66	1.05	1.41	1.79	2.20	2.66	3.23	4.00	5.23	6.42
Feb	.70	.99	1.46	1.87	2.29	2.74	3.24	3.84	4.64	5.90	7.09
Mar	1.15	1.58	2.23	2.81	3.38	3.98	4.64	5.44	6.47	8.10	9.63
Apr	.73	1.08	1.67	2.22	2.78	3.39	4.07	4.91	6.02	7.80	9.51
May	1.12	1.62	2.42	3.14	3.88	4.66	5.54	6.61	8.01	10.25	12.38
Jun	.38	.84	1.50	2.08	2.68	3.32	4.05	4.94	6.12	8.03	9.85
Jul	.25	.46	.88	1.32	1.82	2.38	3.06	3.92	5.11	7.10	9.07
Aug	.06	.21	.50	.80	1.13	1.50	1.96	2.53	3.32	4.65	5.97
Sep	.47	.77	1.31	1.85	2.41	3.04	3.77	4.68	5.90	7.92	9.87
Oct	.74	1.16	1.89	2.58	3.30	4.08	4.99	6.10	7.59	10.02	12.35
Nov	.54	.94	1.68	2.44	3.26	4.18	5.27	6.63	8.49	11.58	14.61
Dec	.95	1.36	2.03	2.63	3.23	3.88	4.61	5.48	6.64	8.48	10.23
Ann	31.60	34.65	38.61	41.65	44.37	47.02	49.77	52.83	56.57	62.03	66.79

\+ 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: 1903-2001
(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	.6	.0	#	0
Feb	.2	.0	#	0
Mar	.1	.0	#	0
Apr	#	.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	.9	.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	7.0	2000	28	12.5	2000	13	2000	29	2	2000
Feb	2.4	1996	2	2.4	1996	2	1996	2	#+	1997
Mar	2.0	1989	5	2.2	1989	2	1989	6	#+	1989
Apr	#	1980	14	#	1980	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	.7	1972	29	.7	1972	1	1972	29	#	1972
Dec	.8	2000	26	.8+	2000	1	2000	27	#+	2000
Ann	7.0	Jan 2000	28	12.5	Jan 2000	13	Jan 2000	29	2	Jan 2000

Mean Number of Days (1)

Snow Fall >= Thresholds

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

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.2	.2	.2	.1
Feb	.1	.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	.0
Dec	.1	.0	.0	.0
Ann	.5	.2	.2	.1

+ 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	4/18	4/13	4/10	4/07	4/05	4/02	3/30	3/27	3/22
32	4/13	4/07	4/03	3/31	3/28	3/25	3/21	3/17	3/12
28	3/29	3/23	3/18	3/15	3/11	3/08	3/04	2/27	2/21
24	3/18	3/09	3/03	2/26	2/21	2/16	2/10	2/04	1/27
20	3/04	2/23	2/17	2/11	2/06	1/31	1/25	1/18	1/03
16	2/20	2/10	2/04	1/29	1/23	1/16	1/08	12/24	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	10/12	10/17	10/20	10/23	10/26	10/29	11/01	11/05	11/10
32	10/22	10/29	11/02	11/06	11/09	11/13	11/17	11/21	11/28
28	10/28	11/05	11/10	11/15	11/19	11/23	11/28	12/03	12/10
24	11/10	11/18	11/23	11/28	12/02	12/06	12/11	12/16	12/23
20	11/26	12/06	12/13	12/19	12/24	12/30	1/06	1/14	1/30
16	12/06	12/15	12/22	12/27	1/02	1/09	1/17	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	225	218	213	208	204	200	196	190	183
32	249	241	235	230	226	221	217	211	203
28	281	271	264	258	252	246	240	233	224
24	315	304	297	290	283	277	270	262	251
20	>365	>365	337	324	316	309	301	293	283
16	>365	>365	>365	>365	359	338	325	313	299

***** 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	753	536	344	135	25	0	0	0	13	108	391	667	2972
60	601	406	210	56	5	0	0	0	2	43	262	519	2104
57	516	331	146	27	1	0	0	0	0	21	198	433	1673
55	459	285	111	15	0	0	0	0	0	12	160	378	1420
50	326	187	47	2	0	0	0	0	0	2	86	256	906
32	42	13	0	0	0	0	0	0	0	0	1	22	78

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	312	403	686	899	1193	1386	1556	1542	1285	992	610	379	11243
55	16	31	84	224	480	696	843	829	595	290	79	22	4189
57	11	21	57	176	420	636	781	767	535	237	56	15	3712
60	4	12	28	115	330	546	688	674	447	166	31	8	3049
65	0	2	7	44	195	396	533	519	308	76	10	0	2090
70	0	0	0	11	93	250	378	367	189	26	1	0	1315

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	145	244	449	649	928	1129	1293	1279	1037	741	385	192	145	389	838	1487	2415	3544	4837	6116	7153	7894	8279	8471
45	73	149	311	501	773	979	1138	1124	887	586	261	106	73	222	533	1034	1807	2786	3924	5048	5935	6521	6782	6888
50	34	78	195	357	618	829	983	969	737	438	160	53	34	112	307	664	1282	2111	3094	4063	4800	5238	5398	5451
55	12	38	104	222	463	679	828	814	588	295	83	25	12	50	154	376	839	1518	2346	3160	3748	4043	4126	4151
60	1	11	44	118	313	529	673	659	440	174	34	6	1	12	56	174	487	1016	1689	2348	2788	2962	2996	3002
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	108	168	285	407	619	782	873	863	696	478	243	132	108	276	561	968	1587	2369	3242	4105	4801	5279	5522	5654

(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