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: TEXARKANA, TX **COOP ID: 418942**

Climate Division: TX 4 **NWS Call Sign:** **Elevation: 390 Feet** **Lat: 33˚25N** **Lon: 94˚05W**

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	52.5	30.7	41.6	81	1997	5	48.8	1990	3	1982	11	30.8	1979	726	0	.0	.0	18.7	1.6	17.6	.0
Feb	58.3	34.3	46.3	90	1986	27	54.0	1999	8	1981	11	34.1	1978	531	6	.0	@	21.5	.9	11.0	.0
Mar	66.5	41.8	54.2	89	1995	23	59.8	1985	15	1980	2	48.0	1980	347	11	.0	.0	29.1	.1	3.7	.0
Apr	74.6	50.0	62.3	95	1987	20	66.6	1999	28	1975	3	58.1	1997	128	47	.0	.4	29.9	.0	.5	.0
May	81.6	60.4	71.0	98	1998	31	75.9	1987	40	1970	1	66.0	1981	23	209	.0	2.8	31.0	.0	.0	.0
Jun	88.9	68.3	78.6	101+	1998	20	83.5	1998	52	1970	3	74.3	1974	0	408	.3	15.6	30.0	.0	.0	.0
Jul	93.1	72.0	82.6	105+	1998	31	88.6	1998	57+	1972	6	80.0+	1989	0	543	3.1	24.9	31.0	.0	.0	.0
Aug	93.1	70.5	81.8	106	2000	31	86.8	2000	55+	1986	30	77.5	1992	0	520	3.6	24.6	31.0	.0	.0	.0
Sep	86.3	63.6	75.0	108	2000	1	80.5	1998	38	1984	30	67.7	1974	8	306	.6	12.4	30.0	.0	.0	.0
Oct	76.5	51.7	64.1	95	1969	5	68.1	1971	27	1993	30	56.6	1976	103	76	.0	1.1	30.9	.0	.3	.0
Nov	63.9	41.1	52.5	86	1972	1	58.8+	1990	16	1976	29	45.0	1976	385	11	.0	.0	27.2	@	5.0	.0
Dec	55.1	33.5	44.3	80+	1998	6	53.9	1984	-6+	1989	24	33.1	1983	642	1	.0	.0	21.9	.9	13.5	.1
Ann	74.2	51.5	62.9	108	Sep 2000	1	88.6	Jul 1998	-6+	Dec 1989	24	30.8	Jan 1979	2893	2138	7.6	81.8	332.2	3.5	51.6	.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: 1968-2001

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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	3.91	3.64	2.50	1990	17	8.25	1998	.10	1986
Feb	3.80	3.38	4.02	2001	16	8.62	1989	.61	1999
Mar	4.46	4.36	5.45	1989	28	9.79	1973	.67	1974
Apr	4.23	3.86	3.86	1985	22	9.85	1991	.53	1987
May	4.97	4.66	3.75	1975	3	11.97	1981	.43	1988
Jun	4.82	4.96	5.07	1976	18	10.46	1982	.50	1988
Jul	3.62	3.50	4.39	1984	4	8.29	1971	.28	2000
Aug	2.41	2.08	4.25	1970	19	9.57	1996	.05	1985
Sep	3.77	3.00	3.60	1980	29	9.99	1986	.41	1994
Oct	4.61	3.99	4.95	1996	22	13.05	1984	.77	1977
Nov	5.69	4.99	5.30	1994	5	15.13	2000	.78	1999
Dec	4.95	4.62	5.15	1985	10	14.86	1987	.58	1981
Ann	51.24	51.47	5.45	Mar 1989	28	15.13	Nov 2000	.05	Aug 1985

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.3	6.5	2.6	1.1
Feb	8.8	5.7	2.8	1.2
Mar	9.5	6.2	3.1	1.2
Apr	8.6	6.0	2.6	1.1
May	10.2	6.7	3.4	1.7
Jun	8.1	5.9	3.0	1.5
Jul	7.4	5.1	2.3	1.1
Aug	6.5	4.2	1.8	.5
Sep	7.5	4.8	2.5	1.4
Oct	7.8	5.6	2.9	1.4
Nov	10.0	6.6	3.5	1.9
Dec	10.2	6.4	3.3	1.6
Ann	104.9	69.7	33.8	15.7

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	.76	1.12	1.69	2.22	2.75	3.33	3.98	4.76	5.80	7.47	9.06
Feb	1.08	1.44	1.98	2.46	2.92	3.41	3.94	4.57	5.39	6.68	7.88
Mar	1.25	1.67	2.31	2.87	3.42	3.99	4.62	5.37	6.34	7.86	9.28
Apr	.98	1.38	2.00	2.55	3.10	3.69	4.35	5.13	6.16	7.79	9.33
May	1.16	1.62	2.35	3.00	3.65	4.34	5.11	6.03	7.23	9.15	10.95
Jun	.72	1.12	1.82	2.48	3.18	3.94	4.81	5.89	7.32	9.67	11.92
Jul	.65	.97	1.50	1.99	2.49	3.04	3.66	4.41	5.41	7.02	8.56
Aug	.19	.35	.66	1.00	1.37	1.79	2.29	2.93	3.82	5.30	6.77
Sep	.45	.75	1.28	1.80	2.36	2.98	3.71	4.61	5.83	7.84	9.79
Oct	.84	1.25	1.93	2.56	3.20	3.89	4.67	5.62	6.89	8.92	10.86
Nov	1.16	1.68	2.52	3.28	4.05	4.87	5.80	6.92	8.40	10.76	13.00
Dec	1.35	1.82	2.54	3.16	3.77	4.41	5.12	5.97	7.06	8.78	10.38
Ann	37.28	40.01	43.49	46.12	48.46	50.71	53.03	55.59	58.69	63.17	67.04

\+ 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: 1968-2001
(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	.4	.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	.0	.0	0	0
Dec	.1	.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	3.0	1997	7	3.8	1997	8	2000	31	1	2000
Feb	2.0	1997	13	2.0	1997	5	1985	1	#+	1997
Mar	.5	1971	3	.5+	1987	1	1971	3	#	1971
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	.0	0	0	.0	0	0	0	0	0	0
Dec	2.0	2000	13	2.0+	2000	2	2000	13	#+	2000
Ann	3.0	Jan 1997	7	3.8	Jan 1997	8	Jan 2000	31	1	Jan 2000

Mean Number of Days (1)

Snow Fall >= Thresholds

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

Snow Depth >= Thresholds

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

+ Also occurred on an earlier date(s) #Denotes trace amounts

(1) Derived from Snow Climatology and 1971-2000 daily data

@ Denotes mean number of days greater than 0 but less than .05

(2) Derived from 1971-2000 daily data

-9/-9.9 represents missing values

Annual statistics for Mean/Median snow depths are not appropriate

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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	4/09	4/06	4/03	3/31	3/28	3/25	3/21	3/16
32	4/10	4/03	3/29	3/24	3/20	3/16	3/12	3/06	2/27
28	3/25	3/16	3/10	3/05	2/28	2/23	2/17	2/11	2/02
24	3/10	3/01	2/22	2/17	2/11	2/06	1/31	1/25	1/16
20	2/22	2/13	2/07	2/01	1/26	1/20	1/12	12/29	0/00
16	2/13	2/04	1/28	1/21	1/13	1/03	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	10/20	10/25	10/29	11/02	11/05	11/08	11/11	11/15	11/20
32	10/27	11/02	11/07	11/10	11/14	11/18	11/22	11/26	12/03
28	11/10	11/17	11/22	11/26	11/30	12/04	12/09	12/14	12/21
24	11/17	11/28	12/06	12/13	12/19	12/25	1/01	1/09	1/20
20	12/04	12/12	12/18	12/24	12/29	1/04	1/11	1/24	0/00
16	12/17	12/27	1/04	1/11	1/20	2/05	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	240	232	227	222	218	214	209	204	196
32	269	258	251	244	238	232	226	218	208
28	307	296	288	281	275	269	262	254	243
24	353	333	322	314	306	299	291	282	270
20	>365	>365	>365	>365	340	328	318	309	297
16	>365	>365	>365	>365	>365	>365	356	341	327

***** 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	726	531	347	128	23	0	0	0	8	103	385	642	2893
60	581	401	219	52	5	0	0	0	1	40	258	497	2054
57	495	329	157	25	1	0	0	0	0	19	194	412	1632
55	440	285	123	14	0	0	0	0	0	11	157	359	1389
50	314	191	58	2	0	0	0	0	0	2	84	242	893
32	45	17	0	0	0	0	0	0	0	0	1	22	85

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	342	416	687	909	1209	1398	1566	1543	1288	996	617	404	11375
55	24	40	97	233	496	708	853	830	598	294	83	28	4284
57	18	29	69	184	435	648	791	768	538	240	59	19	3798
60	11	17	37	121	346	558	698	675	449	168	33	11	3124
65	0	6	11	47	209	408	543	520	306	76	11	1	2138
70	0	0	0	12	104	262	388	368	183	25	1	0	1343

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	177	268	484	698	977	1175	1332	1315	1068	776	415	223	177	445	929	1627	2604	3779	5111	6426	7494	8270	8685	8908
45	93	170	340	549	822	1025	1177	1160	918	621	287	127	93	263	603	1152	1974	2999	4176	5336	6254	6875	7162	7289
50	46	92	220	403	667	875	1022	1005	768	470	177	63	46	138	358	761	1428	2303	3325	4330	5098	5568	5745	5808
55	19	42	124	267	512	725	867	850	618	323	97	31	19	61	185	452	964	1689	2556	3406	4024	4347	4444	4475
60	2	14	56	153	358	575	712	695	470	196	43	8	2	16	72	225	583	1158	1870	2565	3035	3231	3274	3282
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	115	173	303	443	660	815	905	886	721	494	255	142	115	288	591	1034	1694	2509	3414	4300	5021	5515	5770	5912

(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