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: LONGVIEW, TX **COOP ID: 415341**

Climate Division: TX 4 **NWS Call Sign:** **Elevation: 330 Feet** **Lat: 32˚28N** **Lon: 94˚44W**

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	57.1	33.7	45.4	86+	1949	4	53.1	1990	-4	1930	18	35.5	1979	613	0	.0	.0	21.4	1.1	14.6	.0
Feb	62.6	37.0	49.8	90+	1996	23	57.3	1976	3	1951	2	39.2	1978	432	6	.0	@	22.7	.5	10.1	.0
Mar	70.0	44.1	57.1	97	1913	31	63.3	1974	17+	1980	2	52.8	1996	258	12	.0	@	29.6	@	3.2	.0
Apr	77.2	51.2	64.2	98	1942	13	70.2	1981	20	1920	5	59.5	1983	91	68	.0	.1	29.9	.0	.3	.0
May	84.0	61.1	72.6	103	1911	31	77.6	1996	37	1931	7	67.9	1976	10	243	.0	2.9	31.0	.0	.0	.0
Jun	90.5	68.5	79.5	110	1936	21	84.8	1998	52+	1970	3	76.3	1976	0	434	.5	19.1	30.0	.0	.0	.0
Jul	94.5	72.3	83.4	108+	1939	22	89.4	1998	56	1950	1	80.3	1989	0	570	2.9	26.9	31.0	.0	.0	.0
Aug	94.5	70.7	82.6	113	1936	10	86.3	2000	46	1980	16	78.4	1992	0	546	3.1	26.8	31.0	.0	.0	.0
Sep	89.0	64.6	76.8	109+	2000	5	81.6+	1998	38	1920	30	70.3	1974	3	357	.6	14.8	30.0	.0	.0	.0
Oct	79.6	52.8	66.2	101	1938	1	70.1	1971	25	1993	31	59.1	1976	63	100	.0	1.3	30.9	.0	.3	.0
Nov	67.9	43.1	55.5	93+	1944	1	61.2	1973	20+	1992	30	48.5	1976	302	17	.0	.0	28.1	@	4.8	.0
Dec	59.4	35.5	47.5	93	1951	31	55.5	1984	2	1929	23	36.7	1983	547	2	.0	.0	26.6	.1	12.7	@
Ann	77.2	52.9	65.1	113	Aug 1936	10	89.4	Jul 1998	-4	Jan 1930	18	35.5	Jan 1979	2319	2355	7.1	91.9	342.2	1.7	46.0	@

+ 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: 1902-2001

(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	3.79	3.59	4.72	1932	4	8.47	1979	.13	1986
Feb	3.93	3.43	3.80	1986	4	9.63	1997	.15	1999
Mar	4.11	4.02	8.70	1989	29	11.66	1989	.51	1986
Apr	4.19	3.94	6.95	1944	9	12.97	1991	.26	1983
May	4.79	4.44	7.00	1991	3	12.53	1991	.44	1988
Jun	5.03	4.86	5.85	1993	20	14.41	1993	1.01+	1998
Jul	2.83	2.02	6.06	1949	14	7.01	1973	.00	1993
Aug	2.71	2.18	5.81	1912	10	10.03	1974	.01	2000
Sep	3.81	3.24	4.70	1990	11	9.72	1974	.55	1999
Oct	4.34	3.31	8.68	1994	8	14.08	1994	.57	1995
Nov	4.75	4.90	5.77	1990	9	9.34	1987	.58	1989
Dec	4.78	4.49	4.79	1973	4	12.73	1987	.85	1981
Ann	49.06	46.76	8.70	Mar 1989	29	14.41	Jun 1993	.00	Jul 1993

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	8.8	5.9	2.7	1.1
Feb	7.8	5.4	2.7	1.2
Mar	8.5	6.0	2.9	1.2
Apr	7.7	5.5	2.9	1.4
May	8.8	6.4	2.9	1.7
Jun	7.8	5.9	2.9	1.5
Jul	6.9	4.8	2.1	.8
Aug	6.4	4.6	1.9	.9
Sep	6.7	4.7	2.5	1.3
Oct	7.4	5.3	2.6	1.5
Nov	8.4	6.0	3.1	1.8
Dec	9.3	6.3	3.2	1.5
Ann	94.5	66.8	32.4	15.9

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	.52	.83	1.38	1.90	2.46	3.07	3.77	4.63	5.80	7.71	9.55
Feb	.76	1.12	1.69	2.22	2.76	3.34	3.99	4.78	5.83	7.51	9.10
Mar	1.33	1.72	2.29	2.78	3.26	3.75	4.28	4.91	5.72	6.98	8.14
Apr	.64	1.00	1.61	2.19	2.79	3.44	4.20	5.12	6.36	8.37	10.30
May	.89	1.32	2.02	2.67	3.33	4.05	4.86	5.84	7.14	9.23	11.22
Jun	.98	1.44	2.17	2.85	3.54	4.28	5.12	6.13	7.46	9.61	11.65
Jul	.16	.43	.87	1.28	1.72	2.22	2.79	3.50	4.46	6.04	7.58
Aug	.25	.44	.80	1.18	1.59	2.05	2.60	3.30	4.25	5.84	7.39
Sep	.49	.79	1.34	1.87	2.43	3.05	3.77	4.66	5.86	7.84	9.75
Oct	.73	1.11	1.74	2.34	2.95	3.61	4.37	5.29	6.53	8.52	10.42
Nov	1.08	1.52	2.22	2.84	3.47	4.13	4.88	5.77	6.94	8.80	10.55
Dec	1.30	1.76	2.45	3.05	3.64	4.26	4.95	5.76	6.82	8.48	10.03
Ann	33.24	36.25	40.13	43.10	45.75	48.33	51.00	53.96	57.57	62.83	67.41

\+ 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: 1902-2001
(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	.5	.0	#	0
Feb	.5	.0	#	0
Mar	.0	.0	0	0
Apr	.0	.0	0	0
May	.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	.4	.0	0	0
Ann	1.4	.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	5.0	1977	31	5.0	1977	5	1977	31	#	2000
Feb	3.5	1996	2	6.0	1978	3	1996	2	#	1996
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	#	1994
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	.5	1976	13	.5	1976	0	0	0	0	0
Dec	4.5	1983	16	8.5	1983	0	0	0	0	0
Ann	5.0	Jan 1977	31	8.5	Dec 1983	5	Jan 1977	31	#+	Jan 2000

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.2	.1	.1	@	.0
Feb	.3	.2	.1	.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	.1	.0	.0	.0	.0
Dec	.1	.1	.1	.0	.0
Ann	.7	.4	.3	@	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.2	@	@	.0
Feb	.2	@	.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	.4	.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	4/18	4/13	4/09	4/06	4/03	3/31	3/28	3/24	3/19
32	4/08	4/01	3/27	3/23	3/19	3/15	3/11	3/06	2/27
28	3/26	3/17	3/11	3/06	3/01	2/24	2/19	2/12	2/04
24	3/06	2/25	2/19	2/13	2/08	2/03	1/28	1/21	1/10
20	2/24	2/12	2/04	1/27	1/20	1/13	1/03	12/20	0/00
16	2/08	1/29	1/21	1/13	1/03	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	10/16	10/22	10/26	10/30	11/03	11/06	11/10	11/14	11/20
32	10/28	11/03	11/07	11/11	11/15	11/18	11/22	11/26	12/03
28	11/04	11/11	11/17	11/21	11/26	11/30	12/05	12/10	12/17
24	11/21	11/29	12/04	12/09	12/14	12/19	12/24	12/30	1/08
20	12/02	12/11	12/17	12/23	12/29	1/04	1/11	1/25	0/00
16	12/18	12/29	1/07	1/16	1/27	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	238	229	223	218	213	208	203	196	188
32	266	257	251	245	240	235	229	223	213
28	305	293	284	276	269	262	254	245	233
24	>365	334	323	314	307	300	293	285	274
20	>365	>365	>365	>365	339	326	316	306	293
16	>365	>365	>365	>365	>365	>365	>365	344	324

***** 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	613	432	258	91	10	0	0	0	3	63	302	547	2319
60	469	304	139	30	1	0	0	0	0	18	187	404	1552
57	387	235	87	12	0	0	0	0	0	7	133	323	1184
55	336	195	60	6	0	0	0	0	0	3	102	274	976
50	228	115	19	0	0	0	0	0	0	0	46	172	580
32	20	3	0	0	0	0	0	0	0	0	0	8	31

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	435	501	777	967	1256	1424	1593	1569	1343	1060	704	486	12115
55	39	49	124	282	543	734	880	856	653	350	116	39	4665
57	27	33	90	229	481	674	818	794	593	292	87	27	4145
60	16	18	48	157	389	584	725	701	503	210	51	15	3417
65	0	6	12	68	243	434	570	546	357	100	17	2	2355
70	0	0	1	19	124	286	415	391	222	34	3	0	1495

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	227	315	529	722	996	1184	1336	1321	1094	814	451	253	227	542	1071	1793	2789	3973	5309	6630	7724	8538	8989	9242
45	133	203	386	572	841	1034	1181	1166	944	659	319	144	133	336	722	1294	2135	3169	4350	5516	6460	7119	7438	7582
50	71	122	253	424	686	884	1026	1011	794	504	202	67	71	193	446	870	1556	2440	3466	4477	5271	5775	5977	6044
55	32	64	144	283	531	734	871	856	644	358	117	28	32	96	240	523	1054	1788	2659	3515	4159	4517	4634	4662
60	11	26	69	158	378	584	716	701	496	220	53	9	11	37	106	264	642	1226	1942	2643	3139	3359	3412	3421
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	152	205	337	464	679	811	898	887	735	537	283	169	152	357	694	1158	1837	2648	3546	4433	5168	5705	5988	6157

(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