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: GILMER 4 WNW, TX **COOP ID: 413546**

Climate Division: TX 4 **NWS Call Sign:** **Elevation: 390 Feet** **Lat: 32˚45N** **Lon: 95˚03W**

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	55.0	31.4	43.2	85	1943	23	50.5	1990	-4	1930	18	32.7	1979	676	0	.0	.0	20.3	1.4	18.5	.0
Feb	60.6	35.3	48.0	90	1996	22	56.5	1976	-3	1951	2	37.3	1978	483	4	.0	@	22.1	.9	12.5	.0
Mar	68.2	42.5	55.4	97	1930	17	61.8	1974	12	1943	3	50.5	1996	310	10	.0	.1	29.1	@	5.9	.0
Apr	75.2	49.5	62.4	97+	1963	15	68.0	1981	25	1987	3	57.7	1983	124	44	.0	.4	29.9	.0	1.0	.0
May	82.0	59.2	70.6	100+	1998	31	75.9	1996	38+	1992	8	66.2	1976	25	199	@	2.7	31.0	.0	.0	.0
Jun	89.0	66.9	78.0	109	1936	21	83.4	1998	47	1988	11	74.6	1974	0	388	.4	14.8	30.0	.0	.0	.0
Jul	93.4	70.5	82.0	110	1933	12	88.1	1998	52	1967	15	77.7	1976	0	526	3.7	25.1	31.0	.0	.0	.0
Aug	93.7	68.9	81.3	114	1936	10	86.4	1999	47	1967	13	76.4	1992	0	505	4.1	25.2	31.0	.0	.0	.0
Sep	87.5	62.3	74.9	111	2000	5	80.1	1980	36	1967	29	68.2	1974	6	303	.8	13.5	30.0	.0	.0	.0
Oct	77.9	50.9	64.4	98+	1963	9	67.8	2000	23	1993	31	57.0	1976	91	73	.0	1.9	30.9	.0	.8	.0
Nov	66.1	41.5	53.8	88+	1975	8	59.4	1973	13+	1976	30	46.4	1976	349	13	.0	.0	27.7	.1	6.9	.0
Dec	57.8	33.9	45.9	84	1939	7	55.2	1984	-4+	1989	24	35.4	1983	594	1	.0	.0	23.1	.8	15.2	.1
Ann	75.5	51.1	63.3	114	Aug 1936	10	88.1	Jul 1998	-4+	Dec 1989	24	32.7	Jan 1979	2658	2066	9.0	83.7	336.1	3.2	60.8	.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: 1929-2001

(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	3.51	3.21	5.23	1932	5	11.23	1990	.15	1971
Feb	3.58	3.30	4.08	2001	16	8.49	1997	.05	1999
Mar	4.38	4.12	3.97	1990	8	9.20	1990	1.05	1986
Apr	4.12	3.35	7.88	1966	23	14.11	1973	.26	1987
May	4.41	4.43	5.08	1967	31	8.64	1989	.05	1998
Jun	4.13	3.88	6.20	1941	27	10.68	2000	.56	1971
Jul	3.04	2.78	6.35	1933	19	10.43	1979	.00	1993
Aug	2.50	1.67	3.94	1993	8	7.22	1977	.20	1999
Sep	3.84	3.28	5.36	1998	16	13.44	1974	.58	1981
Oct	4.47	3.46	5.33	1993	20	9.79	1993	.88	1978
Nov	4.75	4.60	5.30	1971	18	11.24	2000	.45	1999
Dec	4.35	4.19	5.65	1960	7	12.37	1987	.15	1981
Ann	47.08	44.35	7.88	Apr 1966	23	14.11	Apr 1973	.00	Jul 1993

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	8.8	5.6	2.4	.7
Feb	7.7	5.4	2.3	1.3
Mar	9.0	6.1	2.9	1.3
Apr	7.9	5.6	2.7	1.2
May	9.1	6.0	3.0	1.5
Jun	8.2	5.6	2.6	1.3
Jul	6.5	4.1	1.9	1.0
Aug	5.8	3.9	1.7	.9
Sep	6.5	4.2	2.3	1.1
Oct	7.4	5.4	2.7	1.3
Nov	8.7	6.1	3.0	1.5
Dec	8.7	5.6	2.7	1.6
Ann	94.3	63.6	30.2	14.7

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	.56	.86	1.37	1.86	2.36	2.90	3.52	4.28	5.30	6.94	8.52
Feb	.55	.85	1.37	1.86	2.37	2.94	3.58	4.37	5.43	7.15	8.80
Mar	1.49	1.90	2.51	3.02	3.51	4.02	4.57	5.21	6.04	7.32	8.50
Apr	.55	.88	1.47	2.04	2.64	3.31	4.08	5.03	6.32	8.43	10.46
May	.68	1.06	1.70	2.31	2.94	3.63	4.42	5.39	6.69	8.80	10.82
Jun	.91	1.29	1.89	2.44	2.99	3.57	4.23	5.01	6.05	7.70	9.25
Jul	.19	.49	.96	1.41	1.88	2.40	3.01	3.76	4.77	6.43	8.04
Aug	.33	.53	.89	1.24	1.60	2.01	2.48	3.05	3.83	5.11	6.34
Sep	.34	.61	1.12	1.65	2.24	2.90	3.69	4.68	6.04	8.32	10.56
Oct	.96	1.38	2.03	2.62	3.22	3.86	4.57	5.43	6.56	8.36	10.07
Nov	.85	1.27	1.97	2.61	3.27	3.99	4.80	5.79	7.10	9.21	11.22
Dec	.78	1.17	1.81	2.40	3.01	3.66	4.40	5.31	6.51	8.44	10.28
Ann	29.93	33.11	37.25	40.45	43.33	46.15	49.08	52.35	56.35	62.24	67.39

\+ 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: 1929-2001
(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	.4	.0	#	0
Feb	.9	.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	.1	.0	#	0
Dec	.3	.0	#	0
Ann	1.8	.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	1975	12	3.0	1975	6	2000	28	1	2000
Feb	3.6	1980	9	7.1	1980	8	1985	2	#+	1996
Mar	1.3	1971	3	1.3	1971	1	1971	3	#+	1989
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	1.5	1976	13	1.5	1976	2	1976	13	#+	1980
Dec	5.5	1983	16	5.5	1983	9	1983	17	1	1983
Ann	5.5	Dec 1983	16	7.1	Feb 1980	9	Dec 1983	17	1+	Jan 2000

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.4	.3	.1	.0	.0
Feb	.3	.3	.2	.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	.1	.0	.0	.0
Dec	.2	.1	.1	.1	.0
Ann	1.1	.8	.4	.1	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.1	@	.0	.0
Feb	.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	@	.0	.0	.0
Ann	.2	@	.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	4/15	4/12	4/10	4/08	4/06	4/03	4/01	3/28
32	4/14	4/08	4/04	4/01	3/29	3/25	3/22	3/18	3/12
28	4/04	3/28	3/23	3/19	3/15	3/11	3/07	3/03	2/24
24	3/16	3/08	3/02	2/24	2/20	2/15	2/09	2/03	1/26
20	3/03	2/21	2/14	2/08	2/02	1/26	1/17	1/02	0/00
16	2/23	2/13	2/05	1/30	1/22	1/14	12/29	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	10/10	10/15	10/19	10/22	10/25	10/28	10/31	11/04	11/09
32	10/17	10/23	10/28	11/01	11/05	11/08	11/12	11/17	11/23
28	10/29	11/05	11/10	11/15	11/19	11/23	11/27	12/02	12/09
24	11/14	11/21	11/27	12/02	12/06	12/11	12/15	12/21	12/29
20	11/26	12/03	12/08	12/12	12/17	12/22	12/28	1/08	0/00
16	12/06	12/16	12/24	12/31	1/08	1/19	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	218	212	207	204	200	196	192	188	181
32	244	236	230	225	220	215	210	204	196
28	278	267	260	254	248	242	236	228	218
24	323	311	303	296	289	282	275	267	255
20	>365	>365	>365	332	318	309	301	292	280
16	>365	>365	>365	>365	>365	341	327	314	300

***** 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	676	483	310	124	25	0	0	0	6	91	349	594	2658
60	532	354	184	47	5	0	0	0	0	33	226	449	1830
57	447	282	126	21	1	0	0	0	0	14	166	366	1423
55	393	239	94	11	0	0	0	0	0	7	132	314	1190
50	271	150	37	1	0	0	0	0	0	1	65	202	727
32	29	7	0	0	0	0	0	0	0	0	0	12	48

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	376	453	724	911	1196	1378	1549	1528	1287	1005	654	442	11503
55	26	41	104	232	483	688	836	815	597	299	95	30	4246
57	19	28	74	181	423	628	774	753	537	244	69	20	3750
60	11	15	39	118	333	538	681	660	447	169	39	11	3061
65	0	4	10	44	199	388	526	505	303	73	13	1	2066
70	0	0	0	10	96	242	371	353	177	22	2	0	1273

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	194	290	491	680	955	1145	1308	1291	1057	765	434	241	194	484	975	1655	2610	3755	5063	6354	7411	8176	8610	8851
45	110	189	354	532	800	995	1153	1136	907	611	301	142	110	299	653	1185	1985	2980	4133	5269	6176	6787	7088	7230
50	56	110	229	386	645	845	998	981	757	457	192	79	56	166	395	781	1426	2271	3269	4250	5007	5464	5656	5735
55	24	56	131	251	490	695	843	826	607	319	109	39	24	80	211	462	952	1647	2490	3316	3923	4242	4351	4390
60	7	25	61	140	342	545	688	671	459	192	56	14	7	32	93	233	575	1120	1808	2479	2938	3130	3186	3200
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	140	202	320	444	643	787	879	856	705	504	277	168	140	342	662	1106	1749	2536	3415	4271	4976	5480	5757	5925

(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