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: POTEET, TX **COOP ID: 417215**

Climate Division: TX 9 **NWS Call Sign:** **Elevation: 480 Feet** **Lat: 29˚02N** **Lon: 98˚35W**

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	63.7	39.0	51.4	96	1971	4	57.7	1998	-1	1949	31	43.8	1979	433	10	.0	.1	26.5	.1	7.6	.0
Feb	68.2	42.1	55.2	98	1996	22	61.7	1976	5	1951	2	46.9	1978	288	12	.0	.3	25.9	.2	4.3	.0
Mar	75.9	49.9	62.9	100	1971	29	67.4	1974	19	1980	2	57.1	1996	125	60	@	1.1	30.4	.0	1.2	.0
Apr	82.1	56.6	69.4	106	1984	21	73.9	1972	31	1987	3	64.6	1997	30	159	.3	4.7	30.0	.0	.1	.0
May	87.2	65.3	76.3	105	1967	8	83.1	1996	42	1954	4	71.2	1993	4	353	.6	11.0	31.0	.0	.0	.0
Jun	92.5	70.1	81.3	107+	1980	28	86.5	1990	50	1952	6	74.6	2000	0	490	1.9	22.7	30.0	.0	.0	.0
Jul	95.9	72.6	84.3	110+	1957	31	88.0	1980	52	2000	10	80.4	1976	0	595	6.2	27.4	31.0	.0	.0	.0
Aug	96.1	72.3	84.2	109	1962	13	87.0	1982	59	1967	13	80.6	1992	0	596	6.2	29.0	31.0	.0	.0	.0
Sep	91.9	68.4	80.2	110+	2000	7	85.3	1977	40	1942	27	74.7	1974	0	455	1.6	21.7	30.0	.0	.0	.0
Oct	83.7	59.0	71.4	103	1977	9	74.4	1979	26	1993	31	63.5	1976	17	213	.1	7.1	30.9	.0	@	.0
Nov	73.6	49.2	61.4	98	1970	30	68.0	1973	22+	1993	29	54.0	1976	172	65	.0	.3	29.4	.0	1.6	.0
Dec	65.5	40.9	53.2	90	1942	3	61.8	1995	9	1989	24	43.5	1989	383	18	.0	.0	28.1	.2	6.7	.0
Ann	81.4	57.1	69.3	110+	Sep 2000	7	88.0	Jul 1980	-1	Jan 1949	31	43.5	Dec 1989	1452	3026	16.9	125.4	354.2	.5	21.5	.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: 1941-2001

(3) Derived from 1971-2000 serially complete daily data

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	1.27	1.11	3.00	1968	18	4.08	1991	.00+	1996
Feb	1.83	1.00	5.03	1991	4	7.64	1998	.00+	1999
Mar	1.54	1.30	3.00	1999	28	4.22	1992	.00+	1978
Apr	2.50	1.67	3.46	1957	19	9.34	1977	.05	1983
May	4.09	3.21	4.62	1980	16	10.97	1993	.11	1998
Jun	4.06	3.23	6.30	1993	26	13.23	1973	.00+	1990
Jul	1.64	1.10	8.75	1949	25	10.49	1990	.00+	1994
Aug	2.69	1.83	6.30	1946	29	12.65	1974	.00+	1993
Sep	2.90	2.29	5.75	1967	22	8.49	1976	.13	1999
Oct	3.04	3.02	4.80	1959	4	9.00	1986	.05	1979
Nov	1.79	1.56	5.00	1992	19	5.36	1992	.00	1988
Dec	1.65	1.09	3.88	1991	19	10.67	1991	.00+	1990
Ann	29.00	29.90	8.75	Jul 1949	25	13.23	Jun 1973	.00+	Feb 1999

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	5.6	3.0	.6	.2
Feb	5.3	2.9	1.0	.5
Mar	5.3	2.9	1.0	.4
Apr	5.4	3.7	1.7	.9
May	6.9	4.9	2.7	1.3
Jun	5.6	4.6	2.2	1.2
Jul	3.9	2.7	.8	.4
Aug	4.4	3.1	1.6	.9
Sep	5.8	4.2	1.9	.7
Oct	5.5	3.9	2.0	1.3
Nov	4.9	3.1	1.2	.4
Dec	5.7	3.1	1.1	.4
Ann	64.3	42.1	17.8	8.6

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	.00	.14	.37	.57	.78	1.01	1.27	1.59	2.02	2.73	3.41
Feb	.00	.04	.21	.44	.73	1.09	1.55	2.16	3.04	4.60	6.18
Mar	.00	.24	.55	.79	1.04	1.30	1.59	1.93	2.39	3.14	3.85
Apr	.06	.16	.40	.70	1.08	1.55	2.15	2.94	4.09	6.12	8.18
May	.33	.60	1.14	1.70	2.33	3.04	3.90	4.98	6.47	8.96	11.43
Jun	.00	.46	1.19	1.84	2.51	3.23	4.07	5.06	6.43	8.67	10.82
Jul	.00	.00	.09	.30	.58	.92	1.35	1.94	2.78	4.25	5.75
Aug	.00	.13	.50	.89	1.34	1.86	2.50	3.29	4.42	6.32	8.22
Sep	.39	.62	1.04	1.44	1.87	2.33	2.88	3.55	4.45	5.93	7.36
Oct	.16	.33	.70	1.10	1.57	2.12	2.80	3.66	4.88	6.96	9.03
Nov	.03	.11	.32	.56	.84	1.18	1.60	2.15	2.93	4.27	5.61
Dec	.00	.09	.32	.57	.84	1.16	1.54	2.02	2.70	3.84	4.97
Ann	15.43	17.77	20.93	23.43	25.72	27.99	30.39	33.11	36.49	41.54	46.04

\+ 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: 1941-2001
(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	.0	.0	0	0
Feb	#	.0	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	#	.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	.0	0	0	.0	0	0	0	0	0	0
Feb	#	1989	6	#	1989	0	0	0	0	0
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	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	.0	0	0	.0	0	0	0	0	0	0
Ann	#	Feb 1989	6	#	Feb 1989	0	0	0	0	0

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.0	.0	.0	.0	.0
Feb	.0	.0	.0	.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	.0	.0	.0	.0	.0
Dec	.0	.0	.0	.0	.0
Ann	.0	.0	.0	.0	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.0	.0	.0	.0
Feb	.0	.0	.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	.0	.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	4/08	3/31	3/25	3/20	3/15	3/10	3/05	2/28	2/19
32	3/23	3/14	3/08	3/02	2/25	2/20	2/14	2/08	1/30
28	3/03	2/21	2/14	2/08	2/02	1/28	1/21	1/14	1/02
24	2/20	2/09	2/01	1/25	1/18	1/10	1/01	12/14	0/00
20	2/06	1/23	1/11	12/28	0/00	0/00	0/00	0/00	0/00
16	1/04	12/26	0/00	0/00	0/00	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	10/29	11/05	11/10	11/14	11/18	11/22	11/26	12/01	12/08
32	11/11	11/18	11/23	11/28	12/02	12/06	12/10	12/15	12/22
28	11/24	12/02	12/07	12/12	12/17	12/21	12/26	1/01	1/10
24	12/05	12/14	12/21	12/27	1/02	1/09	1/18	0/00	0/00
20	12/19	1/01	1/13	1/27	0/00	0/00	0/00	0/00	0/00
16	12/27	1/06	0/00	0/00	0/00	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	280	268	260	253	247	240	234	226	214
32	313	301	293	286	279	272	265	257	245
28	>365	343	332	323	316	308	301	293	281
24	>365	>365	>365	>365	348	337	328	319	307
20	>365	>365	>365	>365	>365	>365	>365	>365	359
16	>365	>365	>365	>365	>365	>365	>365	>365	>365

***** 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	433	288	125	30	4	0	0	0	0	17	172	383	1452
60	296	175	51	6	0	0	0	0	0	3	94	257	882
57	225	123	25	1	0	0	0	0	0	1	59	195	629
55	185	93	15	0	0	0	0	0	0	0	42	160	495
50	104	38	3	0	0	0	0	0	0	0	15	85	245
32	0	0	0	0	0	0	0	0	0	0	0	0	0

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	600	648	958	1119	1372	1480	1618	1619	1445	1219	883	658	13619
55	72	97	260	429	659	790	905	906	755	506	234	104	5717
57	50	71	208	370	597	730	843	844	695	445	192	78	5123
60	28	39	141	285	504	640	750	751	605	354	136	47	4280
65	10	12	60	159	353	490	595	596	455	213	65	18	3026
70	0	1	16	70	215	342	440	441	307	100	23	5	1960

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	378	458	717	890	1133	1250	1363	1380	1215	981	651	431	378	836	1553	2443	3576	4826	6189	7569	8784	9765	10416	10847
45	250	326	565	740	978	1100	1208	1225	1065	826	501	296	250	576	1141	1881	2859	3959	5167	6392	7457	8283	8784	9080
50	146	213	421	591	823	950	1053	1070	915	672	365	180	146	359	780	1371	2194	3144	4197	5267	6182	6854	7219	7399
55	72	121	279	441	668	800	898	915	765	521	244	96	72	193	472	913	1581	2381	3279	4194	4959	5480	5724	5820
60	29	57	164	299	513	650	743	760	615	369	143	45	29	86	250	549	1062	1712	2455	3215	3830	4199	4342	4387
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	247	299	460	585	776	844	905	906	814	654	421	276	247	546	1006	1591	2367	3211	4116	5022	5836	6490	6911	7187

(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