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: SNYDER, TX **COOP ID: 418433**

Climate Division: TX 2 **NWS Call Sign:** **Elevation: 2,335 Feet** **Lat: 32˚43N** **Lon: 100˚55W**

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	54.8	26.7	40.8	86	1943	30	46.7	2000	-10	1947	4	31.9	1979	751	0	.0	.0	20.2	2.4	23.6	.1
Feb	60.3	31.1	45.7	92	1917	21	53.9	1999	-11	1985	2	36.9	1978	541	0	.0	@	22.0	1.5	16.2	.1
Mar	69.0	38.2	53.6	99	1971	28	59.9	1974	5	1943	2	48.2	1987	359	5	.0	.5	28.7	.3	7.6	.0
Apr	77.4	46.7	62.1	104	1959	26	68.0	1978	20	1920	4	55.6	1997	151	61	.0	3.4	29.4	.0	1.7	.0
May	85.0	57.2	71.1	110	1953	23	78.7	1996	33+	1981	11	67.4	1979	34	223	1.2	9.1	31.0	.0	.0	.0
Jun	91.2	65.5	78.4	114+	1994	28	84.7	1998	40	1919	3	73.5	1983	1	401	2.7	18.3	30.0	.0	.0	.0
Jul	94.6	68.9	81.8	114	1933	14	87.8	1998	52	1915	5	77.5	1975	0	519	4.2	25.3	31.0	.0	.0	.0
Aug	92.8	67.6	80.2	115	1936	12	85.0	1999	46	1915	31	74.6	1971	0	471	1.9	23.8	31.0	.0	.0	.0
Sep	86.1	60.7	73.4	108	1952	1	79.2	1998	35	1916	29	66.4	1974	11	263	.9	11.1	30.0	.0	.0	.0
Oct	77.4	49.6	63.5	102+	1977	1	68.2	1998	20	1917	30	56.0	1976	106	59	.1	2.2	30.5	.0	.7	.0
Nov	65.0	36.9	51.0	91	1945	3	57.0	1999	4	1911	29	43.8	1976	427	6	.0	@	26.2	.3	9.8	.0
Dec	56.6	28.4	42.5	86+	1955	25	46.6	1977	-3+	1983	23	29.7	1983	698	0	.0	.0	22.6	1.7	21.9	.3
Ann	75.9	48.1	62.0	115	Aug 1936	12	87.8	Jul 1998	-11	Feb 1985	2	29.7	Dec 1983	3079	2008	11.0	93.7	332.6	6.2	81.5	.5

\+ 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: 1911-2001

(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	.69	.54	1.15+	1998	30	2.46	1983	.00+	1972
Feb	1.03	.60	2.20	1997	20	4.48	1997	.00+	1999
Mar	1.09	.57	5.25	2000	22	6.05	2000	.00+	1991
Apr	1.69	1.11	3.53	1924	24	5.92	1981	.00	1984
May	3.01	2.44	3.85	1980	15	8.86	1982	.29	1996
Jun	3.06	2.83	5.05	1939	20	7.23	1999	.00	1994
Jul	2.04	1.47	5.26	1948	6	6.24	1975	.10	1974
Aug	2.55	1.71	4.75	1977	28	16.70	1971	.00+	2000
Sep	3.30	3.01	3.89	1972	3	12.91	1980	.00	2000
Oct	2.34	1.68	3.53	1941	15	6.69	1976	.00	1992
Nov	.91	.62	2.52	1996	24	4.80	1996	.00+	1999
Dec	.80	.50	2.00+	1932	23	4.37	1991	.00+	1996
Ann	22.51	21.81	5.26	Jul 1948	6	16.70	Aug 1971	.00+	Sep 2000

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	3.7	2.0	.3	.1
Feb	4.2	2.4	.6	.1
Mar	4.0	2.0	.5	.1
Apr	4.3	2.8	1.1	.5
May	7.1	4.8	2.0	.7
Jun	6.5	4.4	1.9	.9
Jul	4.9	3.2	1.0	.4
Aug	5.3	3.8	1.8	.7
Sep	5.9	4.2	2.3	1.1
Oct	5.3	3.5	1.6	.7
Nov	3.2	1.7	.4	.1
Dec	3.3	1.9	.5	.1
Ann	57.7	36.7	14.0	5.5

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	.07	.19	.30	.41	.54	.69	.86	1.11	1.51	1.90
Feb	.00	.00	.17	.34	.52	.72	.97	1.28	1.70	2.42	3.14
Mar	.00	.00	.16	.33	.52	.74	1.00	1.34	1.81	2.62	3.42
Apr	.03	.11	.31	.54	.80	1.12	1.52	2.03	2.75	4.00	5.25
May	.27	.48	.88	1.30	1.75	2.28	2.89	3.67	4.74	6.53	8.28
Jun	.45	.86	1.38	1.80	2.23	2.68	3.17	3.76	4.54	5.76	6.92
Jul	.15	.28	.54	.82	1.13	1.49	1.93	2.48	3.24	4.53	5.80
Aug	.00	.14	.51	.89	1.32	1.81	2.40	3.13	4.16	5.91	7.63
Sep	.02	.12	.41	.81	1.31	1.94	2.76	3.86	5.46	8.30	11.20
Oct	.04	.17	.45	.77	1.14	1.58	2.13	2.83	3.81	5.51	7.20
Nov	.00	.03	.13	.26	.41	.59	.81	1.10	1.51	2.22	2.94
Dec	.00	.00	.03	.13	.27	.45	.67	.96	1.37	2.09	2.84
Ann	13.35	15.00	17.19	18.89	20.43	21.95	23.54	25.32	27.52	30.77	33.64

\+ 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: 1911-2001
(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	.3	.0	#	0
Feb	1.1	.0	#	0
Mar	#	.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	.2	.0	#	0
Ann	1.6	.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	2.5	1973	3	2.5	1973	1	1987	18	#+	1991
Feb	3.0	1980	9	7.8	1973	3+	1980	9	#+	1980
Mar	#	1979	10	#+	1979	#	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	#	1972	30	#	1972	0	0	0	0	0
Dec	2.0	1975	24	2.0	1975	#+	1990	24	#+	1990
Ann	3.0	Feb 1980	9	7.8	Feb 1973	3+	Feb 1980	9	#+	Jan 1991

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.3	.3	.0	.0	.0
Feb	.7	.5	.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	.0	.0	.0	.0	.0
Dec	.1	.1	.0	.0	.0
Ann	1.1	.9	.1	.0	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.0	.0	.0	.0
Feb	.2	.1	.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	.2	.1	.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	4/26	4/21	4/17	4/14	4/11	4/08	4/05	4/01	3/27
32	4/14	4/10	4/07	4/04	4/01	3/30	3/27	3/24	3/19
28	4/11	4/03	3/28	3/24	3/19	3/15	3/10	3/04	2/24
24	3/31	3/21	3/14	3/08	3/03	2/25	2/19	2/12	2/03
20	3/16	3/07	3/01	2/24	2/18	2/13	2/08	2/01	1/23
16	3/02	2/20	2/12	2/06	1/31	1/25	1/18	1/09	12/23

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	10/07	10/13	10/18	10/22	10/25	10/29	11/02	11/06	11/13
32	10/23	10/29	11/01	11/04	11/07	11/10	11/13	11/17	11/22
28	11/02	11/07	11/11	11/14	11/17	11/19	11/22	11/26	12/01
24	11/09	11/15	11/19	11/23	11/27	11/30	12/04	12/09	12/15
20	11/13	11/23	11/30	12/05	12/11	12/16	12/22	12/29	1/07
16	11/24	12/04	12/12	12/18	12/25	12/31	1/08	1/18	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	211	205	201	197	193	188	183	176
32	240	233	228	223	219	215	211	206	199
28	267	259	252	247	242	237	231	225	216
24	300	289	281	275	268	262	255	247	236
20	325	313	305	299	293	287	281	274	264
16	>365	>365	353	339	329	319	310	299	285

***** 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	751	541	359	151	34	1	0	0	11	106	427	698	3079
60	596	409	224	72	10	0	0	0	1	40	294	544	2190
57	507	332	157	40	4	0	0	0	0	19	224	455	1738
55	450	284	120	25	2	0	0	0	0	10	183	399	1473
50	312	182	52	6	0	0	0	0	0	2	102	265	921
32	28	10	0	0	0	0	0	0	0	0	2	16	56

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	301	393	669	900	1212	1390	1542	1494	1242	976	571	342	11032
55	10	23	77	235	501	700	829	781	552	273	63	11	4055
57	5	15	52	190	441	640	767	719	492	219	43	5	3588
60	1	8	25	133	354	550	674	626	403	148	23	1	2946
65	0	0	5	61	223	401	519	471	263	59	6	0	2008
70	0	0	0	21	122	258	364	319	147	15	0	0	1246

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	138	233	435	666	964	1150	1291	1251	1004	730	348	162	138	371	806	1472	2436	3586	4877	6128	7132	7862	8210	8372
45	66	138	299	518	809	1000	1136	1096	854	577	233	79	66	204	503	1021	1830	2830	3966	5062	5916	6493	6726	6805
50	23	68	184	376	654	850	981	941	705	430	134	34	23	91	275	651	1305	2155	3136	4077	4782	5212	5346	5380
55	3	28	94	248	504	700	826	786	557	289	63	5	3	31	125	373	877	1577	2403	3189	3746	4035	4098	4103
60	0	6	42	142	355	550	671	631	416	165	20	0	0	6	48	190	545	1095	1766	2397	2813	2978	2998	2998
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	130	187	308	432	622	760	852	830	661	465	243	148	130	317	625	1057	1679	2439	3291	4121	4782	5247	5490	5638

(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