

# Climatography of the United States No. 20

National Climatic Data Center  
Federal Building  
151 Patton Avenue  
Asheville, North Carolina 28801  
www.ncdc.noaa.gov

Station: COLDSRING 5 SSW, TX

1971-2000

COOP ID: 411870

Climate Division: TX 4

NWS Call Sign:

Elevation: 355 Feet

Lat: 30°32N

Lon: 95°09W

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	60.0	37.5	48.8	83+	1989	4	55.9	1999	9+	1982	12	39.2	1977	519	4	.0	.0	24.1	.5	11.1	.0
Feb	64.4	40.2	52.3	90	1986	21	60.1	1999	14+	1981	12	41.1	1978	368	11	.0	@	24.4	.4	7.6	.0
Mar	71.6	47.0	59.3	90	1971	23	65.5	1974	19	1980	3	53.3	1996	204	28	.0	@	30.0	.0	3.0	.0
Apr	77.9	53.6	65.8	94+	1987	29	70.3	1981	26	1987	1	60.4	1983	72	94	.0	.3	30.0	.0	.3	.0
May	84.6	62.2	73.4	99+	1998	31	77.8	1998	40	1981	11	68.6	1976	8	267	.0	4.2	31.0	.0	.0	.0
Jun	90.4	68.4	79.4	103+	1998	15	85.1	1998	49	1970	3	76.5	1976	0	433	.5	17.1	30.0	.0	.0	.0
Jul	93.8	70.8	82.3	106	2000	16	87.8	1998	54+	1967	16	79.4	1976	0	536	2.8	25.8	31.0	.0	.0	.0
Aug	94.1	69.8	82.0	110	1998	2	86.4	1999	52	1967	13	74.8	1992	0	525	3.5	24.9	31.0	.0	.0	.0
Sep	89.1	65.5	77.3	106	1985	2	82.2	1998	37	1967	30	72.2	1974	1	371	.7	15.3	30.0	.0	.0	.0
Oct	80.9	55.2	68.1	96	1991	13	71.5	1998	25	1993	31	58.2	1976	51	147	.0	2.9	31.0	.0	.3	.0
Nov	70.2	46.4	58.3	89+	1989	9	64.7	1973	16	1976	29	49.0	1976	248	47	.0	.0	28.9	@	3.3	.0
Dec	62.5	39.2	50.9	83	1998	6	60.6	1984	3+	1989	24	42.2	1989	449	10	.0	.0	26.3	.3	9.7	.0
Ann	78.3	54.7	66.5	110	Aug 1998	2	87.8	Jul 1998	3+	Dec 1989	24	39.2	Jan 1977	1920	2473	7.5	90.5	347.7	1.2	35.3	.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/normal/usnormals.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormals.html)

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1954-2001

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

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**Lon: 95°09W**

Precipitation (inches)																								
	Precipitation Totals									Mean Number of Days (3)				Precipitation Probabilities (1) Probability that the monthly/annual precipitation will be equal to or less than the indicated amount										
	Means/ Medians(1)		Extremes							Daily Precipitation				Monthly/Annual Precipitation vs Probability Levels These values were determined from the incomplete gamma distribution										
Month	Mean	Med-ian	Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year	>= 0.01	>= 0.10	>= 0.50	>= 1.00	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	4.63	3.77	4.86	1998	7	11.65	1995	.52	1971	9.8	7.0	3.1	1.3	.64	1.02	1.68	2.32	3.00	3.74	4.60	5.65	7.07	9.40	11.64
Feb	3.44	3.19	2.97	1984	12	8.20	1998	.70	1999	7.8	5.1	2.2	1.2	.74	1.06	1.56	2.02	2.48	2.97	3.52	4.18	5.05	6.45	7.76
Mar	3.61	3.97	3.28	1972	21	7.49	1989	.56	1971	8.5	5.5	2.4	.9	.99	1.34	1.86	2.31	2.76	3.22	3.74	4.35	5.15	6.40	7.56
Apr	3.73	3.35	5.19	1999	4	9.71	1979	.19	1983	7.0	4.5	2.1	1.2	.43	.72	1.24	1.76	2.32	2.94	3.66	4.56	5.78	7.79	9.74
May	5.40	5.50	4.75	1982	14	13.79	1983	.00	1998	8.4	6.4	3.6	1.6	1.40	2.18	3.06	3.74	4.38	5.03	5.73	6.55	7.58	9.18	10.65
Jun	5.93	5.49	13.50	1973	14	20.11	1973	.62	1980	8.7	6.5	3.4	1.8	.77	1.25	2.09	2.92	3.79	4.75	5.87	7.25	9.11	12.17	15.13
Jul	2.95	2.86	6.90	1954	30	7.60	1973	.27	1993	8.1	5.3	1.9	.6	.50	.75	1.18	1.59	2.00	2.46	2.97	3.60	4.44	5.79	7.09
Aug	3.52	3.12	3.30	1971	3	9.44	1983	.22	1999	8.0	5.7	2.4	.9	.62	.94	1.45	1.93	2.42	2.95	3.56	4.29	5.27	6.84	8.35
Sep	4.45	4.30	6.94	1961	12	10.60	1979	.86	1988	8.2	5.7	2.5	1.4	1.04	1.46	2.11	2.69	3.27	3.89	4.58	5.40	6.47	8.18	9.79
Oct	4.40	2.94	9.13	1994	17	15.86	1994	.47	1978	7.0	5.1	2.5	1.5	.44	.76	1.36	1.98	2.64	3.39	4.27	5.37	6.87	9.37	11.81
Nov	4.89	4.60	6.96	1998	13	11.55	1998	.45	1999	8.3	6.0	2.8	1.5	.94	1.38	2.10	2.76	3.43	4.15	4.96	5.95	7.26	9.35	11.35
Dec	4.82	4.54	4.75	1973	24	9.39	1991	1.26	1980	9.3	6.9	3.2	1.5	1.90	2.34	2.98	3.50	4.00	4.50	5.04	5.67	6.47	7.70	8.81
Ann	51.77	50.32	13.50	Jun 1973	14	20.11	Jun 1973	.00	May 1998	99.1	69.7	32.1	15.4	32.19	35.79	40.50	44.15	47.43	50.65	54.01	57.77	62.38	69.17	75.12

+ 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: 1954-2001

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

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Climate Division: TX 4

NWS Call Sign:

Elevation: 355 Feet

Lat: 30°32N

Lon: 95°09W

Snow (inches)																							
Snow Totals															Mean Number of Days (1)								
Means/Medians (1)					Extremes (2)										Snow Fall >= Thresholds					Snow Depth >= Thresholds			
Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year	0.1	1.0	3.0	5.0	10.0	1	3	5	10
Jan	.2	.0	#	0	2.0	1973	11	4.0	1973	4	1973	12	#+	1997	.1	.1	.0	.0	.0	.1	@	.0	.0
Feb	.1	.0	#	0	1.0	1980	2	1.0	1980	1+	1988	7	#+	1988	.1	.1	.0	.0	.0	.1	.0	.0	.0
Mar	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Apr	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
May	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Jun	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Jul	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Aug	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Sep	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	#	.0	0	0	#	1976	29	#	1976	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.0	.0	0	0	.3	2000	27	.3	2000	0	0	0	0	0	.1	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.3	.0	N/A	N/A	2.0	Jan 1973	11	4.0	Jan 1973	4	Jan 1973	12	#+	Jan 1997	.3	.2	.0	.0	.0	.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	4/14	4/07	4/01	3/28	3/24	3/20	3/15	3/10	3/03
32	4/06	3/28	3/22	3/16	3/11	3/05	2/27	2/21	2/12
28	3/27	3/16	3/08	3/02	2/24	2/18	2/11	2/04	1/24
24	3/05	2/24	2/16	2/10	2/04	1/29	1/23	1/14	12/29
20	2/19	2/07	1/28	1/18	1/08	12/23	0/00	0/00	0/00
16	1/23	1/12	12/31	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	10/23	10/29	11/02	11/06	11/09	11/13	11/16	11/21	11/27
32	10/28	11/05	11/11	11/17	11/22	11/27	12/02	12/08	12/17
28	11/09	11/18	11/24	11/30	12/05	12/11	12/16	12/23	1/01
24	11/23	12/05	12/13	12/21	12/28	1/04	1/12	1/22	2/10
20	12/08	12/21	12/31	1/09	1/20	2/08	0/00	0/00	0/00
16	12/21	1/05	1/21	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	258	248	241	235	230	224	218	211	202
32	287	276	268	262	255	249	242	234	224
28	325	311	301	292	284	276	267	257	243
24	>365	>365	345	333	323	314	305	295	281
20	>365	>365	>365	>365	>365	>365	336	321	306
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

Complete documentation available from:

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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	519	368	204	72	8	0	0	0	1	51	248	449	1920
60	383	249	106	22	1	0	0	0	0	16	154	311	1242
57	311	189	63	8	0	0	0	0	0	7	109	240	927
55	268	155	42	4	0	0	0	0	0	4	84	198	755
50	179	85	12	0	0	0	0	0	0	1	37	114	428
32	14	1	0	0	0	0	0	0	0	0	0	2	17

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	533	569	847	1011	1283	1423	1559	1548	1359	1119	788	585	12624
55	74	79	176	325	570	733	846	835	669	409	182	69	4967
57	55	56	135	270	508	673	784	773	609	351	148	48	4410
60	35	32	85	193	415	583	691	680	519	267	103	27	3630
65	4	11	28	94	267	433	536	525	371	147	47	10	2473
70	3	0	7	32	142	284	381	371	232	62	18	1	1533

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	312	381	604	773	1035	1185	1311	1303	1122	880	556	363	312	693	1297	2070	3105	4290	5601	6904	8026	8906	9462	9825
45	205	263	456	624	880	1035	1156	1148	972	726	413	239	205	468	924	1548	2428	3463	4619	5767	6739	7465	7878	8117
50	118	167	317	475	725	885	1001	993	822	572	287	142	118	285	602	1077	1802	2687	3688	4681	5503	6075	6362	6504
55	62	90	196	333	571	735	846	838	672	423	184	76	62	152	348	681	1252	1987	2833	3671	4343	4766	4950	5026
60	29	42	101	207	417	585	691	683	522	279	101	41	29	71	172	379	796	1381	2072	2755	3277	3556	3657	3698
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	200	248	389	509	708	816	888	869	760	582	357	233	200	448	837	1346	2054	2870	3758	4627	5387	5969	6326	6559

(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.  
Complete documentation for the 1971-2000 Normals is available on the internet from:  
[www.ncdc.noaa.gov/oa/climate/normal/usnormals.html](http://www.ncdc.noaa.gov/oa/climate/normal/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 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.

- |   |   |
|---|---|
| <ol style="list-style-type: none"><li>a. Temperature/ Precipitation Tables<ol style="list-style-type: none"><li>1. 1971-2000 Monthly Normals</li><li>2. Cooperative Summary of the Day</li><li>3. National Weather Service station records</li><li>4. 1971-2000 serially complete daily data</li></ol></li><li>b. Degree Day Table<ol style="list-style-type: none"><li>1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals</li><li>2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data</li></ol></li></ol> | <ol style="list-style-type: none"><li>c. Snow Tables<ol style="list-style-type: none"><li>1. Snow Climatology</li><li>2. Cooperative Summary of the Day</li></ol></li><li>d. Freeze Data Table<br/>1971-2000 serially complete daily data</li></ol> |
|---|---|

## References

U.S. Climate Normals 1971-2000, [www.ncdc.noaa.gov/normal.html](http://www.ncdc.noaa.gov/normal.html)  
U.S. Climate Normals 1971-2000-Products Clim20, [www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html)  
Snow Climatology Project Description, [www.ncdc.noaa.gov/oa/climate/monitoring/snowclim/mainpage.html](http://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](http://www1.ncdc.noaa.gov/pub/data/special/serialcomplete_jam_0900.pdf)