

# Climatology of the United States

No. 20

1971-2000

Station: BLANCO, TX

COOP ID: 410832

Climate Division: TX 6

NWS Call Sign:

Elevation: 1,370 Feet Lat: 30°06N Lon: 98°25W

## 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	59.2	34.0	46.6	91	1943	23	52.7	1998	-6	1949	31	37.9	1979	573	0	.0	.0	23.6	.5	14.7	.0
Feb	63.7	37.7	50.7	98+	1996	22	57.6	1976	-5	1949	1	41.2	1978	405	5	.0	.3	24.1	.6	9.4	.0
Mar	71.1	45.1	58.1	100+	1971	29	64.8	1974	14	1980	2	52.5	1996	235	21	@	.5	29.7	.0	3.7	.0
Apr	77.7	51.7	64.7	103	1963	10	70.5	1972	18	1914	25	59.8	1997	82	73	.1	1.4	29.9	.0	.8	.0
May	83.7	61.0	72.4	103	1967	9	77.3	1996	34	1996	1	67.8	1976	12	239	.1	5.7	31.0	.0	.0	.0
Jun	89.6	67.6	78.6	106	1980	28	83.2	1998	46+	1984	1	75.1	1995	0	407	.5	16.1	30.0	.0	.0	.0
Jul	93.7	70.0	81.9	110+	1939	8	85.1	1980	54+	1924	4	77.4	1976	0	522	3.7	26.0	31.0	.0	.0	.0
Aug	94.1	69.2	81.7	110	1917	22	84.7	1977	48	1915	31	77.3	1992	0	515	3.2	26.9	31.0	.0	.0	.0
Sep	88.4	64.1	76.3	110	2000	6	81.1	1977	38+	1983	22	70.1	1974	2	339	.7	14.9	30.0	.0	.0	.0
Oct	79.6	54.2	66.9	104	1938	2	71.4	1979	21	1917	30	58.2	1976	57	117	@	2.5	30.7	.0	.3	.0
Nov	68.6	43.9	56.3	95	1949	29	62.7	1973	13	1911	30	49.7	1976	285	22	.0	.0	28.2	@	5.2	.0
Dec	60.9	36.0	48.5	91	1955	25	56.7	1984	0+	1989	24	39.2	1989	515	2	.0	.0	25.7	.4	12.9	.1
Ann	77.5	52.9	65.2	110+	Sep 2000	6	85.1	Jul 1980	-6	Jan 1949	31	37.9	Jan 1979	2166	2262	8.3	94.3	344.9	1.5	47.0	.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/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: 1897-2001

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

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**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: BLANCO, TX**

**COOP ID: 410832**

**Climate Division: TX 6**

**NWS Call Sign:**

**Elevation: 1,370 Feet Lat: 30°06N**

**Lon: 98°25W**

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	1.79	1.28	3.21	1968	18	5.87	1991	.02	1971	8.5	4.0	1.0	.4	.14	.25	.49	.73	1.01	1.32	1.70	2.18	2.84	3.96	5.06	
Feb	2.08	1.71	4.65	1961	16	6.06	1992	.10+	1999	7.4	3.8	1.4	.5	.19	.33	.61	.90	1.22	1.57	2.00	2.53	3.27	4.49	5.69	
Mar	2.63	2.11	3.14	1992	4	6.55	1990	.18	1971	8.3	4.6	1.7	.6	.44	.67	1.05	1.41	1.79	2.19	2.65	3.21	3.96	5.17	6.32	
Apr	2.69	2.03	8.12	1949	25	9.67	1997	.05	1983	7.6	4.2	1.9	.8	.25	.43	.80	1.17	1.58	2.04	2.59	3.28	4.22	5.80	7.35	
May	4.51	3.95	8.13	1958	3	10.27	1992	.58	1998	8.9	5.9	2.9	1.6	1.21	1.64	2.29	2.86	3.42	4.01	4.66	5.44	6.45	8.03	9.51	
Jun	4.18	3.58	5.10	1997	22	11.93	1987	.65	1994	7.0	5.3	2.8	1.4	.74	1.11	1.72	2.29	2.88	3.51	4.23	5.10	6.26	8.13	9.91	
Jul	2.02	1.31	4.60	1903	29	8.14	1990	.00+	1994	5.1	3.1	1.3	.5	.00	.03	.21	.45	.77	1.16	1.68	2.36	3.37	5.14	6.95	
Aug	2.38	1.36	4.72	1942	22	10.08	1974	.00	1993	5.4	3.6	1.5	.8	.04	.16	.44	.76	1.14	1.59	2.15	2.87	3.89	5.66	7.42	
Sep	3.26	2.84	17.47	1952	11	13.81	1986	.00	1999	6.7	5.0	2.1	.8	.28	.64	1.17	1.65	2.14	2.68	3.29	4.03	5.03	6.64	8.19	
Oct	4.18	3.93	6.88	1959	4	10.16	1998	.04	1978	7.2	4.6	2.4	1.3	.21	.44	.93	1.49	2.13	2.90	3.83	5.03	6.73	9.63	12.53	
Nov	2.66	2.44	6.33	2001	16	8.72	2000	.07	1999	7.5	4.1	1.8	.8	.32	.53	.90	1.27	1.67	2.11	2.62	3.25	4.10	5.51	6.88	
Dec	2.37	1.90	4.12	1913	4	11.41	1991	.24	1981	8.0	4.2	1.6	.6	.15	.29	.59	.91	1.28	1.70	2.21	2.86	3.78	5.32	6.86	
Ann	34.75	35.30	17.47	Sep 1952	11	13.81	Sep 1986	.00+	Sep 1999	87.6	52.4	22.4	10.1	22.33	24.64	27.65	29.97	32.06	34.09	36.21	38.57	41.46	45.70	49.41	

+ 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: 1897-2001

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

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Station: BLANCO, TX

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Climate Division: TX 6

NWS Call Sign:

Elevation: 1,370 Feet

Lat: 30°06N

Lon: 98°25W

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	.5	.0	0	0	5.0	1985	3	5.0	1985	10	1985	13	1	1985	.1	.1	.1	.1	.0	.0	.0	.0	.0
Feb	.8	.0	#	0	4.0	1973	9	7.0	1973	4	1973	9	#	1973	.2	.2	.1	.0	.0	.1	.1	.0	.0
Mar	#	.0	0	0	#	1994	9	#	1994	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	#	1996	25	#+	1996	#	1996	25	#	1996	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.1	.0	#	0	1.0	1996	16	1.0	1996	#	1989	23	#	1989	.1	.1	.0	.0	.0	.0	.0	.0	.0
Ann	1.4	.0	N/A	N/A	5.0	Jan 1985	3	7.0	Feb 1973	10	Jan 1985	13	1	Jan 1985	.4	.4	.2	.1	.0	.1	.1	.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	4/19	4/14	4/10	4/07	4/04	4/01	3/28	3/25	3/19
32	4/13	4/05	3/30	3/25	3/20	3/15	3/10	3/04	2/24
28	3/26	3/18	3/13	3/08	3/04	2/28	2/23	2/17	2/10
24	3/11	3/01	2/22	2/16	2/11	2/05	1/30	1/22	1/11
20	2/26	2/15	2/07	1/30	1/23	1/15	1/06	12/19	0/00
16	2/14	2/03	1/24	1/16	1/06	12/23	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	10/14	10/20	10/24	10/28	11/01	11/04	11/08	11/12	11/18
32	10/24	10/30	11/04	11/08	11/11	11/15	11/19	11/23	11/30
28	10/31	11/08	11/14	11/19	11/23	11/27	12/02	12/08	12/16
24	11/19	11/26	12/01	12/06	12/10	12/14	12/19	12/24	1/02
20	11/28	12/07	12/14	12/20	12/26	1/02	1/11	0/00	0/00
16	12/13	12/25	1/03	1/13	1/24	2/12	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	231	224	219	214	210	206	201	196	189
32	265	255	247	241	235	230	223	216	206
28	296	285	277	270	263	257	250	242	231
24	351	331	320	311	303	296	288	278	266
20	>365	>365	>365	353	335	325	316	307	296
16	>365	>365	>365	>365	>365	>365	353	333	314

\* 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	573	405	235	82	12	0	0	0	2	57	285	515	2166
60	430	278	127	25	1	0	0	0	0	17	175	372	1425
57	347	211	80	10	0	0	0	0	0	7	124	291	1070
55	297	172	55	4	0	0	0	0	0	3	95	243	869
50	191	95	17	0	0	0	0	0	0	0	42	145	490
32	11	1	0	0	0	0	0	0	0	0	0	3	15

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	463	524	810	981	1250	1397	1545	1538	1327	1083	727	513	12158
55	36	52	152	295	537	707	832	825	637	373	131	40	4617
57	24	35	115	240	475	647	770	763	577	314	100	27	4087
60	14	18	69	166	383	557	677	670	487	231	62	14	3348
65	0	5	21	73	239	407	522	515	339	117	22	2	2262
70	0	0	4	21	122	259	367	360	203	42	6	0	1384

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	265	350	574	752	1011	1165	1305	1297	1094	845	501	306	265	615	1189	1941	2952	4117	5422	6719	7813	8658	9159	9465
45	161	232	429	603	856	1015	1150	1142	944	691	367	192	161	393	822	1425	2281	3296	4446	5588	6532	7223	7590	7782
50	84	141	293	456	701	865	995	987	794	538	247	108	84	225	518	974	1675	2540	3535	4522	5316	5854	6101	6209
55	39	72	177	312	546	715	840	832	644	390	148	50	39	111	288	600	1146	1861	2701	3533	4177	4567	4715	4765
60	11	33	90	189	395	565	685	677	495	255	75	16	11	44	134	323	718	1283	1968	2645	3140	3395	3470	3486
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	189	239	376	489	680	803	872	859	743	562	324	210	189	428	804	1293	1973	2776	3648	4507	5250	5812	6136	6346

(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> |
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## 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)