

Climatography of the United States

No. 20

1971-2000

Station: BURNET, TX

COOP ID: 411250

Climate Division: TX 6

NWS Call Sign:

Elevation: 1,275 Feet Lat: 30°45N Lon: 98°14W

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	58.5	33.3	45.9	95	1911	31	52.0+	1999	-4	1949	30	37.0	1979	595	0	.0	.0	23.4	.8	15.1	.0
Feb	63.1	37.7	50.4	100	1918	25	57.4	1976	-1	1985	2	40.9	1978	415	6	.0	.2	23.8	.6	8.8	@
Mar	70.3	45.6	58.0	100	1971	28	64.1	1974	12	1980	2	53.3	1987	236	18	@	.5	29.7	.0	3.1	.0
Apr	77.3	52.8	65.1	102	1925	18	69.6	1972	27+	1994	7	60.2	1983	75	76	.0	1.2	29.9	.0	.6	.0
May	83.5	61.5	72.5	104+	1934	30	78.2	1996	35	1903	1	68.0	1993	16	247	.1	5.1	31.0	.0	.0	.0
Jun	89.5	67.8	78.7	110	1934	17	82.9	1998	46	1919	3	74.5	1995	0	410	.4	15.9	30.0	.0	.0	.0
Jul	93.6	70.7	82.2	114	1917	11	85.5	1978	54+	1976	15	78.1	1976	0	532	2.5	26.1	31.0	.0	.0	.0
Aug	93.7	70.0	81.9	114	1909	18	85.3	1977	53	1992	28	78.0	1992	0	523	2.9	26.3	31.0	.0	.0	.0
Sep	88.1	64.6	76.4	108	2000	3	81.5	1977	38	1983	22	70.8	1974	3	342	.6	13.7	30.0	.0	.0	.0
Oct	79.2	54.0	66.6	105	1909	14	69.6	1979	22	1993	31	56.6	1976	62	110	@	2.1	30.7	.0	.3	.0
Nov	67.9	44.1	56.0	92+	1988	8	62.6	1973	15	1979	30	50.0	1976	287	17	.0	@	27.8	@	4.5	.0
Dec	60.1	35.9	48.0	92	1901	24	54.9	1984	-4	1989	23	38.9	1989	529	1	.0	.0	25.1	.6	12.0	@
Ann	77.1	53.2	65.1	114+	Jul 1917	11	85.5	Jul 1978	-4+	Dec 1989	23	37.0	Jan 1979	2218	2282	6.5	91.1	343.4	2.0	44.4	.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

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1896-2001

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

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No. 20 1971-2000

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

Station: BURNET, TX

COOP ID: 411250

Climate Division: TX 6

NWS Call Sign:

Elevation: 1,275 Feet Lat: 30°45N

Lon: 98°14W

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	1.61	1.29	3.02	1968	20	5.59	1989	.00	1999	6.5	3.6	.9	.3	.04	.15	.36	.59	.84	1.14	1.50	1.96	2.60	3.67	4.75
Feb	2.16	1.84	2.50	1941	1	6.20	1997	.20	1984	6.0	3.6	1.6	.6	.29	.47	.78	1.08	1.39	1.74	2.15	2.64	3.31	4.40	5.46
Mar	2.33	2.29	4.58	1910	30	4.87	1992	.19	1986	6.9	4.3	1.6	.5	.46	.67	1.01	1.32	1.64	1.98	2.37	2.83	3.45	4.44	5.37
Apr	2.48	2.03	4.85+	1948	13	7.98	1976	.16	1983	5.9	3.7	1.8	.8	.37	.58	.94	1.28	1.64	2.03	2.48	3.03	3.78	4.98	6.15
May	4.58	3.93	4.19	1968	10	12.86	1975	.65	1984	7.7	5.9	3.4	1.6	1.15	1.58	2.25	2.84	3.42	4.04	4.72	5.54	6.61	8.30	9.88
Jun	4.09	3.66	5.25	1921	12	15.37	1987	.25	1994	6.6	5.1	2.8	1.6	.52	.84	1.42	1.99	2.60	3.26	4.04	5.00	6.30	8.43	10.49
Jul	2.04	1.44	7.08	1919	7	7.80	1973	.00	1993	4.5	3.1	1.3	.7	.05	.18	.45	.74	1.07	1.45	1.90	2.49	3.30	4.69	6.06
Aug	2.06	1.55	6.98	1974	27	14.02	1974	.00	1993	4.7	3.2	1.1	.5	.06	.20	.48	.77	1.10	1.48	1.94	2.52	3.32	4.68	6.02
Sep	3.15	2.87	9.80	1936	27	9.45	1980	.02	1999	6.4	4.4	1.9	.8	.28	.50	.92	1.36	1.83	2.38	3.03	3.84	4.96	6.83	8.66
Oct	3.46	3.58	8.40	1959	4	10.15	1986	.15	1995	6.1	4.7	2.2	1.1	.41	.68	1.17	1.65	2.17	2.74	3.40	4.23	5.35	7.19	8.98
Nov	2.32	2.13	3.40	1937	9	6.51	2000	.05	1999	6.1	4.1	1.8	.7	.31	.50	.83	1.15	1.49	1.86	2.30	2.83	3.55	4.73	5.86
Dec	2.15	1.99	4.52	1997	21	8.84	1991	.14	1977	6.0	3.7	1.5	.6	.21	.36	.65	.95	1.27	1.64	2.07	2.62	3.36	4.60	5.81
Ann	32.43	31.83	9.80	Sep 1936	27	15.37	Jun 1987	.00+	Jan 1999	73.4	49.4	21.9	9.8	22.01	23.99	26.55	28.50	30.25	31.94	33.70	35.65	38.03	41.49	44.50

+ 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: 1896-2001

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

Complete documentation available from:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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Station: BURNET, TX

COOP ID: 411250

Climate Division: TX 6

NWS Call Sign:

Elevation: 1,275 Feet

Lat: 30°45N

Lon: 98°14W

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	.6	.0	#	0	4.0	1973	11	4.0	1973	4	1973	11	#	1973	.2	.2	.1	.0	.0	@	@	.0	.0
Feb	.1	.0	0	0	1.0	1975	23	1.0	1975	0	0	0	0	0	.2	.1	.0	.0	.0	.0	.0	.0	.0
Mar	#	.0	0	0	#	1978	4	#	1978	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	.2	.0	0	0	2.0	1996	25	2.0	1996	0	0	0	0	0	.1	.1	.0	.0	.0	.0	.0	.0	.0
Dec	#	.0	0	0	#	1972	10	#	1972	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.9	.0	N/A	N/A	4.0	Jan 1973	11	4.0	Jan 1973	4	Jan 1973	11	#	Jan 1973	.5	.4	.1	.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

Complete documentation available from:

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Climate Division: TX 6

NWS Call Sign:

Elevation: 1,275 Feet

Lat: 30° 45N

Lon: 98° 14W

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	4/16	4/11	4/07	4/04	4/02	3/30	3/27	3/24	3/19
32	4/13	4/05	3/30	3/24	3/20	3/15	3/09	3/03	2/23
28	3/30	3/21	3/15	3/09	3/03	2/26	2/20	2/14	2/04
24	3/07	2/26	2/19	2/14	2/08	2/03	1/28	1/20	1/09
20	2/27	2/16	2/08	1/31	1/24	1/17	1/08	12/25	0/00
16	2/13	2/03	1/27	1/19	1/11	12/31	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	10/15	10/22	10/26	10/30	11/02	11/06	11/10	11/14	11/20
32	10/25	10/31	11/05	11/08	11/12	11/15	11/19	11/24	11/30
28	11/03	11/11	11/16	11/21	11/25	11/29	12/04	12/10	12/17
24	11/13	11/22	11/28	12/04	12/09	12/15	12/21	12/28	1/08
20	11/25	12/05	12/12	12/18	12/25	12/31	1/09	1/25	0/00
16	12/15	12/25	1/02	1/10	1/19	2/04	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	236	229	223	218	214	209	205	199	192
32	264	254	248	242	237	231	226	219	210
28	296	286	278	272	266	260	254	246	236
24	>365	332	320	311	303	296	288	279	267
20	>365	>365	>365	340	328	319	311	303	292
16	>365	>365	>365	>365	>365	357	342	331	318

* 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	595	415	236	75	16	0	0	0	3	62	287	529	2218
60	451	287	126	21	3	0	0	0	0	19	173	384	1464
57	368	219	78	7	0	0	0	0	0	7	119	301	1099
55	317	180	54	3	0	0	0	0	0	3	90	251	898
50	207	102	16	0	0	0	0	0	0	0	37	148	510
32	14	2	0	0	0	0	0	0	0	0	0	3	19

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	445	517	805	991	1254	1400	1555	1546	1329	1071	720	498	12131
55	34	51	146	304	541	710	842	833	639	362	120	33	4615
57	24	34	108	248	479	650	780	771	579	303	89	21	4086
60	13	18	63	171	389	560	687	678	489	222	52	11	3353
65	0	6	18	76	247	410	532	523	342	110	17	1	2282
70	0	0	2	22	133	264	377	368	208	40	3	0	1417

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	251	345	580	759	1016	1164	1310	1303	1092	827	496	291	251	596	1176	1935	2951	4115	5425	6728	7820	8647	9143	9434
45	151	228	433	610	861	1014	1155	1148	942	674	358	178	151	379	812	1422	2283	3297	4452	5600	6542	7216	7574	7752
50	76	135	296	463	706	864	1000	993	792	520	241	93	76	211	507	970	1676	2540	3540	4533	5325	5845	6086	6179
55	35	69	179	324	551	714	845	838	642	381	141	45	35	104	283	607	1158	1872	2717	3555	4197	4578	4719	4764
60	6	27	87	194	397	564	690	683	494	240	69	14	6	33	120	314	711	1275	1965	2648	3142	3382	3451	3465
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	183	230	369	493	685	804	880	870	740	548	311	199	183	413	782	1275	1960	2764	3644	4514	5254	5802	6113	6312

(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.
Complete documentation for the 1971-2000 Normals is available on the internet from:
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">a. Temperature/ Precipitation Tables<ol style="list-style-type: none">1. 1971-2000 Monthly Normals2. Cooperative Summary of the Day3. National Weather Service station records4. 1971-2000 serially complete daily datab. Degree Day Table<ol style="list-style-type: none">1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data | <ol style="list-style-type: none">c. Snow Tables<ol style="list-style-type: none">1. Snow Climatology2. Cooperative Summary of the Dayd. Freeze Data Table
1971-2000 serially complete daily data |
|---|---|

References

U.S. Climate Normals 1971-2000, www.ncdc.noaa.gov/normal.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normal/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