

Climatography of the United States

No. 20

1971-2000

Station: CAMERON, TX

COOP ID: 411348

Climate Division: TX 3

NWS Call Sign:

Elevation: 364 Feet

Lat: 30° 51N

Lon: 96° 58W

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	61.9	39.2	50.6	90+	1972	23	57.1	1990	-7	1930	17	40.3	1979	464	12	.0	@	24.7	.6	9.1	.0
Feb	66.9	43.1	55.0	98+	1996	22	62.6	1976	5	1951	2	44.0	1978	300	20	.0	.2	24.6	.5	5.1	.0
Mar	74.5	50.1	62.3	100	1928	25	68.9	1974	15	1943	3	57.5	1987	141	57	.0	.5	30.3	@	1.7	.0
Apr	80.5	56.9	68.7	100	1963	9	74.1	1972	28+	1987	4	63.9	1997	33	144	.0	1.6	30.0	.0	.1	.0
May	85.8	65.1	75.5	105+	1928	28	81.3	1996	41	1981	11	71.2	1979	3	327	.1	6.3	31.0	.0	.0	.0
Jun	91.3	71.2	81.3	107	1936	21	86.0	1990	47	1919	10	78.7	1988	0	487	1.0	19.8	30.0	.0	.0	.0
Jul	95.7	73.5	84.6	114	1917	10	88.5	1998	58+	1967	16	81.1	1976	0	607	5.3	28.4	31.0	.0	.0	.0
Aug	95.9	73.1	84.5	113	1909	17	87.9	1985	57	1940	21	80.7	1992	0	604	5.7	28.1	31.0	.0	.0	.0
Sep	90.3	68.0	79.2	110	2000	4	82.8	1972	41	1942	27	73.1	1974	0	425	1.0	17.7	30.0	.0	.0	.0
Oct	81.7	58.8	70.3	106	1938	2	73.4	1973	25	1917	30	60.2	1976	28	189	.0	4.0	30.9	.0	.1	.0
Nov	71.1	49.0	60.1	91+	1955	1	67.7	1973	15	1911	30	51.0	1976	200	51	.0	@	28.9	.0	2.1	.0
Dec	63.6	41.1	52.4	88	1955	25	60.2	1984	2	1989	23	43.1	1983	405	13	.0	.0	26.8	.4	6.4	.0
Ann	79.9	57.4	68.7	114	Jul 1917	10	88.5	Jul 1998	-7	Jan 1930	17	40.3	Jan 1979	1574	2936	13.1	106.6	349.2	1.5	24.6	.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: 1908-2001

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

046-A

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: CAMERON, TX

COOP ID: 411348

Climate Division: TX 3

NWS Call Sign:

Elevation: 364 Feet Lat: 30°51N

Lon: 96°58W

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	2.29	1.78	4.01	1965	22	9.04	1991	.00	1971	7.8	4.4	1.5	.5	.17	.41	.78	1.11	1.46	1.85	2.29	2.83	3.55	4.74	5.88
Feb	2.53	2.54	3.03	1986	3	7.42	1992	.05+	1999	6.8	4.3	1.7	.7	.22	.39	.73	1.08	1.46	1.90	2.42	3.08	3.98	5.48	6.96
Mar	2.45	2.17	2.70	1970	7	7.39	1979	.07	1971	7.1	4.1	2.0	.6	.42	.64	.99	1.33	1.67	2.05	2.47	2.99	3.68	4.79	5.85
Apr	2.88	2.11	7.30	1915	22	11.37	1990	.02	1984	6.3	4.1	1.9	.8	.21	.39	.76	1.16	1.60	2.11	2.72	3.50	4.58	6.39	8.19
May	5.01	4.44	6.44	1908	24	9.37	1975	.47	1998	8.7	5.9	3.5	1.8	1.25	1.72	2.45	3.09	3.73	4.41	5.16	6.05	7.22	9.07	10.81
Jun	3.22	2.86	4.57	1960	26	8.64	1993	.17	1990	7.1	5.2	2.3	.9	.47	.74	1.21	1.65	2.12	2.63	3.22	3.94	4.90	6.48	8.00
Jul	1.94	1.48	7.90	1979	27	9.29	1979	.00+	1993	4.4	3.0	1.0	.4	.00	.03	.19	.43	.73	1.11	1.61	2.26	3.23	4.94	6.69
Aug	1.95	1.34	4.73	1919	21	6.54	1996	.00+	2000	4.6	3.3	1.3	.5	.00	.00	.37	.69	1.03	1.42	1.87	2.44	3.20	4.50	5.77
Sep	3.54	3.63	12.45	1921	10	12.56	1974	.04	1982	6.6	4.5	2.1	1.2	.26	.49	.95	1.43	1.98	2.60	3.35	4.30	5.62	7.84	10.04
Oct	3.73	2.51	7.60	1957	14	10.95	1994	.24	1987	6.7	4.7	2.1	1.1	.39	.66	1.18	1.70	2.26	2.89	3.63	4.55	5.82	7.91	9.95
Nov	3.12	2.96	3.40	1954	15	10.01	2000	.20	1999	6.8	4.7	2.1	1.0	.53	.80	1.26	1.68	2.12	2.60	3.14	3.81	4.69	6.12	7.49
Dec	2.86	2.39	6.08	1991	21	11.70	1991	.21	1977	7.5	4.8	2.0	.8	.32	.53	.93	1.33	1.76	2.23	2.79	3.49	4.43	6.00	7.52
Ann	35.52	34.64	12.45	Sep 1921	10	12.56	Sep 1974	.00+	Aug 2000	80.4	53.0	23.5	10.3	23.23	25.53	28.52	30.82	32.88	34.88	36.97	39.29	42.13	46.29	49.92

+ 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: 1908-2001

(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: CAMERON, TX

COOP ID: 411348

Climate Division: TX 3

NWS Call Sign:

Elevation: 364 Feet

Lat: 30°51N

Lon: 96°58W

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	.3	.0	#	0	2.6	1973	11	3.1	1973	3	1973	11	#	1973	.1	.1	.0	.0	.0	.1	@	.0	.0
Feb	#	.0	0	0	#	1989	6	#	1989	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Mar	#	.0	0	0	#	1982	6	#	1982	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	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.3	.0	N/A	N/A	2.6	Jan 1973	11	3.1	Jan 1973	3	Jan 1973	11	#	Jan 1973	.1	.1	.0	.0	.0	.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

Complete documentation available from:

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NWS Call Sign:

Elevation: 364 Feet

Lat: 30° 51N

Lon: 96° 58W

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	4/13	4/05	3/31	3/26	3/22	3/17	3/13	3/07	2/28
32	3/31	3/22	3/16	3/11	3/07	3/02	2/25	2/19	2/10
28	3/19	3/08	3/01	2/22	2/16	2/10	2/04	1/27	1/17
24	3/05	2/22	2/13	2/06	1/30	1/22	1/14	1/02	0/00
20	2/17	2/06	1/28	1/19	1/11	1/01	12/13	0/00	0/00
16	1/28	1/17	1/05	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	10/26	11/01	11/05	11/09	11/13	11/16	11/20	11/24	11/30
32	11/01	11/08	11/13	11/18	11/22	11/26	12/01	12/06	12/13
28	11/10	11/19	11/26	12/02	12/08	12/13	12/19	12/26	1/05
24	11/25	12/03	12/09	12/15	12/20	12/25	12/31	1/10	0/00
20	12/05	12/16	12/25	1/02	1/10	1/21	0/00	0/00	0/00
16	12/29	1/10	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	262	253	246	240	235	230	224	218	209
32	289	279	272	265	260	254	247	240	230
28	332	314	304	297	290	283	276	268	257
24	>365	>365	>365	332	321	313	306	298	288
20	>365	>365	>365	>365	>365	353	339	327	312
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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Climate Division: TX 3 NWS Call Sign: Elevation: 364 Feet Lat: 30°51N Lon: 96°58W

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	464	300	141	33	3	0	0	0	0	28	200	405	1574
60	333	194	63	6	0	0	0	0	0	6	113	273	988
57	264	143	34	2	0	0	0	0	0	2	73	207	725
55	225	114	21	0	0	0	0	0	0	1	53	170	584
50	141	55	5	0	0	0	0	0	0	0	19	92	312
32	8	0	0	0	0	0	0	0	0	0	0	0	8

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	584	643	940	1102	1347	1477	1630	1627	1415	1184	842	631	13422
55	88	114	248	412	634	787	917	914	725	472	204	87	5602
57	65	87	198	353	572	727	855	852	665	411	165	63	5013
60	40	53	135	268	479	637	762	759	575	322	114	36	4180
65	12	20	57	144	327	487	607	604	425	189	51	13	2936
70	6	7	16	59	189	337	452	449	280	87	17	1	1900

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	349	443	680	854	1097	1236	1384	1380	1172	937	599	399	349	792	1472	2326	3423	4659	6043	7423	8595	9532	10131	10530
45	235	321	529	704	942	1086	1229	1225	1022	782	455	265	235	556	1085	1789	2731	3817	5046	6271	7293	8075	8530	8795
50	142	209	384	555	787	936	1074	1070	872	628	323	163	142	351	735	1290	2077	3013	4087	5157	6029	6657	6980	7143
55	72	122	254	406	632	786	919	915	722	476	212	91	72	194	448	854	1486	2272	3191	4106	4828	5304	5516	5607
60	32	64	145	269	477	636	764	760	573	329	121	44	32	96	241	510	987	1623	2387	3147	3720	4049	4170	4214
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	221	278	433	562	761	857	930	919	796	626	378	247	221	499	932	1494	2255	3112	4042	4961	5757	6383	6761	7008

(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/normal/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