

Climatology of the United States

No. 20

1971-2000

Station: CENTERVILLE, TX

COOP ID: 411596

Climate Division: TX 5

NWS Call Sign:

Elevation: 320 Feet Lat: 31°15N Lon: 95°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	58.4	34.3	46.4	89+	1943	24	52.0	1990	-3	1949	31	37.8	1978	583	4	.0	.0	22.6	.7	14.3	.0
Feb	63.2	37.9	50.6	94+	1996	22	57.6	2000	0	1951	1	40.3	1978	410	6	.0	.1	23.5	.6	8.8	.0
Mar	70.9	45.1	58.0	98	1946	31	64.3	1974	15	1943	3	51.4	1996	238	20	.0	.1	29.7	@	3.3	.0
Apr	77.5	51.9	64.7	99	1963	10	70.2	1981	26+	1987	1	59.0	1997	86	78	.0	.5	29.9	.0	.5	.0
May	84.1	61.1	72.6	98+	1998	31	78.2	1996	39	1996	1	68.6	1976	11	246	.0	4.7	31.0	.0	.0	.0
Jun	90.4	68.2	79.3	106	1998	15	85.3	1998	48	1970	3	75.4	1997	0	430	.9	17.8	30.0	.0	.0	.0
Jul	94.7	71.4	83.1	111	1954	26	88.5	1998	52	1967	15	79.8	1989	0	560	4.2	27.4	31.0	.0	.0	.0
Aug	95.0	70.3	82.7	111	1948	12	87.2	1980	52	1992	29	77.7	1992	0	547	4.4	27.0	31.0	.0	.0	.0
Sep	89.3	64.6	77.0	110	2000	5	82.7	1980	39+	1967	29	70.8	1974	3	362	1.0	16.1	30.0	.0	.0	.0
Oct	80.2	53.5	66.9	97+	1955	1	69.7	1973	27	1993	31	59.5	1976	52	108	.0	2.9	31.0	.0	.2	.0
Nov	68.9	44.1	56.5	96	1938	1	63.1	1973	15	1975	23	49.9	1976	277	22	.0	.0	28.6	@	4.6	.0
Dec	60.9	36.5	48.7	87+	1948	13	57.4	1984	1	1989	23	37.3	1983	514	9	.0	.0	24.9	.5	12.1	.0
Ann	77.8	53.2	65.5	111+	Jul 1954	26	88.5	Jul 1998	-3	Jan 1949	31	37.3	Dec 1983	2174	2392	10.5	96.6	343.2	1.8	43.8	.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: 1937-2001

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

058-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: CENTERVILLE, TX

COOP ID: 411596

Climate Division: TX 5

NWS Call Sign:

Elevation: 320 Feet

Lat: 31°15N

Lon: 95°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	3.40	2.46	3.77	1991	10	10.32	1991	.15	1971	9.1	5.8	2.1	.9	.47	.74	1.23	1.70	2.20	2.74	3.38	4.15	5.20	6.91	8.56
Feb	3.18	2.90	3.86	1955	20	10.81	1997	.06	1999	7.8	4.9	2.3	1.1	.31	.54	.97	1.42	1.89	2.44	3.07	3.87	4.97	6.79	8.56
Mar	3.51	3.24	2.87	1995	13	7.72	1983	.66	1986	9.1	5.4	2.3	1.0	.89	1.22	1.73	2.18	2.63	3.10	3.62	4.24	5.06	6.34	7.54
Apr	3.29	3.11	5.04	1957	24	8.45	1976	.41	1994	7.1	4.7	2.3	1.1	.54	.82	1.30	1.75	2.22	2.72	3.31	4.01	4.96	6.49	7.95
May	4.77	4.88	5.23	1952	23	8.88	1983	.14	1998	8.4	5.7	3.1	1.8	.68	1.07	1.76	2.42	3.11	3.87	4.75	5.83	7.29	9.66	11.94
Jun	4.12	3.35	5.23	1976	19	17.57	1993	.00	1998	8.0	5.6	2.4	1.4	.59	1.13	1.83	2.40	2.98	3.58	4.26	5.06	6.12	7.79	9.37
Jul	2.48	2.09	7.65	1979	27	10.76	1979	.00+	2000	5.9	3.7	1.5	.7	.00	.13	.48	.85	1.27	1.75	2.32	3.05	4.06	5.78	7.48
Aug	2.62	2.65	7.25	1983	19	9.70	1983	.00	2000	6.2	4.0	1.6	.6	.19	.46	.87	1.26	1.66	2.10	2.61	3.23	4.07	5.44	6.76
Sep	3.50	3.19	4.54	1961	12	7.54	1974	.56	1989	7.6	5.1	2.2	1.0	.89	1.22	1.73	2.18	2.62	3.09	3.61	4.23	5.04	6.32	7.52
Oct	4.79	3.40	8.50	1957	14	18.69	1984	.64	1987	6.8	5.3	2.9	1.8	.58	.95	1.63	2.30	3.01	3.80	4.72	5.86	7.40	9.95	12.42
Nov	3.82	3.50	6.86	1937	9	13.29	2000	.29	1999	8.2	5.4	2.7	1.3	.78	1.13	1.69	2.21	2.72	3.27	3.90	4.65	5.64	7.22	8.73
Dec	3.60	2.97	3.55+	1991	21	9.70	1991	.47	1981	8.4	5.3	2.5	1.1	.77	1.10	1.63	2.11	2.59	3.11	3.68	4.38	5.29	6.75	8.13
Ann	43.08	42.45	8.50	Oct 1957	14	18.69	Oct 1984	.00+	Aug 2000	92.6	60.9	27.9	13.8	28.73	31.44	34.95	37.64	40.04	42.38	44.81	47.51	50.80	55.61	59.80

+ 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: 1937-2001

(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: CENTERVILLE, TX

COOP ID: 411596

Climate Division: TX 5

NWS Call Sign:

Elevation: 320 Feet

Lat: 31°15N

Lon: 95°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	.7	.0	#	0	4.0	1982	14	4.5	1973	3	1973	12	#+	1978	.3	.2	.1	.0	.0	.1	.1	.0	.0
Feb	.2	.0	0	0	3.0	1985	2	3.0	1985	0	0	0	0	0	.2	.1	.1	.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	#	.0	0	0	#	1976	28	#	1976	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	.9	.0	N/A	N/A	4.0	Jan 1982	14	4.5	Jan 1973	3	Jan 1973	12	#+	Jan 1978	.5	.3	.2	.0	.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

Complete documentation available from:

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Climate Division: TX 5

NWS Call Sign:

Elevation: 320 Feet

Lat: 31° 15N

Lon: 95° 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	4/19	4/12	4/08	4/04	3/31	3/27	3/23	3/19	3/12
32	4/07	3/31	3/25	3/21	3/17	3/12	3/08	3/02	2/23
28	3/25	3/16	3/10	3/05	2/28	2/24	2/18	2/12	2/04
24	3/10	3/01	2/22	2/16	2/10	2/05	1/30	1/23	1/13
20	2/27	2/16	2/09	2/02	1/26	1/19	1/10	12/24	0/00
16	1/31	1/21	1/14	1/05	12/25	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	10/16	10/22	10/27	10/30	11/03	11/06	11/10	11/14	11/20
32	10/28	11/03	11/07	11/11	11/14	11/18	11/21	11/25	12/01
28	11/08	11/15	11/20	11/23	11/27	12/01	12/05	12/10	12/16
24	11/19	11/27	12/04	12/09	12/14	12/19	12/24	12/30	1/08
20	11/24	12/06	12/15	12/23	12/31	1/08	1/20	0/00	0/00
16	12/08	12/21	1/01	1/12	1/28	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	244	234	228	222	216	211	205	198	188
32	273	262	255	248	242	236	230	222	212
28	305	293	285	278	271	264	257	249	237
24	344	331	321	313	306	299	291	281	268
20	>365	>365	>365	>365	343	329	318	306	290
16	>365	>365	>365	>365	>365	>365	>365	342	321

* 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	583	410	238	86	11	0	0	0	3	52	277	514	2174
60	439	283	129	28	1	0	0	0	0	13	169	374	1436
57	357	216	82	11	0	0	0	0	0	5	119	298	1088
55	307	177	56	6	0	0	0	0	0	2	91	252	891
50	201	99	18	0	0	0	0	0	0	0	40	159	517
32	13	1	0	0	0	0	0	0	0	0	0	8	22

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	457	521	805	982	1258	1420	1583	1570	1349	1079	735	525	12284
55	38	53	148	297	545	730	870	857	659	368	135	57	4757
57	26	36	112	243	483	670	808	795	599	309	103	40	4224
60	15	19	67	170	391	580	715	702	509	224	64	23	3479
65	4	6	20	78	246	430	560	547	362	108	22	9	2392
70	0	0	4	24	127	282	405	392	227	37	6	0	1504

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	259	345	576	752	1017	1187	1336	1323	1104	831	499	307	259	604	1180	1932	2949	4136	5472	6795	7899	8730	9229	9536
45	158	231	430	603	862	1037	1181	1168	954	676	367	196	158	389	819	1422	2284	3321	4502	5670	6624	7300	7667	7863
50	84	142	295	457	707	887	1026	1013	804	523	244	113	84	226	521	978	1685	2572	3598	4611	5415	5938	6182	6295
55	38	74	181	318	552	737	871	858	654	374	147	56	38	112	293	611	1163	1900	2771	3629	4283	4657	4804	4860
60	16	30	91	194	400	587	716	703	504	240	78	25	16	46	137	331	731	1318	2034	2737	3241	3481	3559	3584
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	177	226	370	495	694	813	897	870	742	545	323	205	177	403	773	1268	1962	2775	3672	4542	5284	5829	6152	6357

(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