

**Climatology
of the United States
No. 20**

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

Station: POINT COMFORT, TX

1971-2000

COOP ID: 417140

Climate Division: TX 8

NWS Call Sign:

Elevation: 20 Feet

Lat: 28° 39N

Lon: 96° 33W

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	64.6	45.7	55.2	84	1989	3	62.2	2000	14	1982	11	46.3	1977	337	31	.0	.0	27.7	.0	3.3	.0
Feb	68.1	48.8	58.5	91	1962	9	66.2	1999	18	1989	6	49.2	1978	215	32	.0	.0	26.7	.1	1.6	.0
Mar	74.2	55.6	64.9	95+	1974	30	71.2	2000	23	1980	2	59.7	1996	79	76	.0	.2	30.9	.0	.3	.0
Apr	79.2	61.6	70.4	98	1989	26	74.2+	1991	34	1973	10	66.8	1973	12	174	.0	.3	30.0	.0	.0	.0
May	84.6	69.5	77.1	99	1984	3	81.5	1989	36	1967	3	73.3	1979	0	373	.0	2.8	31.0	.0	.0	.0
Jun	89.6	75.1	82.4	106	1980	19	85.8	1998	52	1974	25	78.4	1974	0	519	.2	13.7	30.0	.0	.0	.0
Jul	91.8	77.5	84.7	103	1986	22	87.2	1994	60	1972	7	79.9	1974	0	610	.2	25.4	31.0	.0	.0	.0
Aug	91.8	76.9	84.4	106	1986	19	87.0+	1988	60	1967	13	81.4	1971	0	599	.1	24.9	31.0	.0	.0	.0
Sep	89.0	71.6	80.3	107	2000	6	84.5	1986	47+	1989	27	71.6	1974	0	460	.4	15.1	30.0	.0	.0	.0
Oct	82.6	63.6	73.1	96	1985	23	76.2	1998	35	1993	31	65.4	1976	9	260	.0	1.9	31.0	.0	.0	.0
Nov	73.9	54.7	64.3	95	1963	5	70.1	1988	26	1959	18	56.2	1976	130	110	.0	@	29.7	.0	.3	.0
Dec	67.0	47.6	57.3	86+	1983	11	65.6	1984	9	1989	23	47.8	1989	273	34	.0	.0	29.1	.1	2.2	.0
Ann	79.7	62.4	71.1	107	Sep 2000	6	87.2	Jul 1994	9	Dec 1989	23	46.3	Jan 1977	1055	3278	.9	84.3	358.1	.2	7.7	.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: 1957-2001

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

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Lat: 28°39N

Lon: 96°33W

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	2.86	2.75	4.80	1991	9	9.56	1991	.14	1971	8.2	5.2	1.8	.6	.49	.74	1.15	1.55	1.95	2.39	2.89	3.49	4.31	5.62	6.87
Feb	2.51	1.46	5.01	1982	25	10.36	1982	.10	1976	6.2	3.8	1.2	.5	.18	.34	.66	1.00	1.38	1.83	2.37	3.05	3.99	5.59	7.16
Mar	2.77	2.34	6.86	1997	17	16.01	1997	.15	1975	5.4	3.3	1.4	.8	.12	.26	.57	.94	1.36	1.87	2.50	3.32	4.48	6.47	8.47
Apr	2.89	2.34	5.12	1995	4	8.49	1973	.00	1984	5.0	3.0	1.5	.9	.11	.34	.75	1.17	1.63	2.15	2.77	3.55	4.62	6.41	8.17
May	4.52	4.39	7.30	1972	7	13.97	1981	.00	1998	6.5	5.0	2.9	1.5	.26	.69	1.39	2.06	2.76	3.54	4.45	5.58	7.10	9.61	12.05
Jun	4.67	4.38	14.65	1960	26	10.91	1987	.00	1980	7.2	5.7	2.5	1.6	.58	1.17	1.96	2.62	3.29	4.00	4.80	5.75	7.01	9.02	10.92
Jul	3.37	1.63	5.39	1983	13	13.38	1983	.00+	1993	5.6	4.2	1.9	1.1	.00	.00	.51	1.03	1.61	2.29	3.11	4.15	5.59	8.05	10.50
Aug	3.41	3.28	4.03	1984	4	7.96	1971	.09	1993	7.2	5.3	2.1	1.0	.36	.62	1.09	1.56	2.07	2.65	3.32	4.16	5.31	7.21	9.06
Sep	5.61	4.87	10.06	1979	19	19.62	1979	.68	2000	8.5	6.7	3.0	1.6	.77	1.23	2.04	2.82	3.63	4.53	5.58	6.86	8.59	11.41	14.14
Oct	4.50	3.61	6.80	1984	19	16.04	1984	.97	1980	6.7	5.2	2.4	1.2	.63	1.01	1.65	2.28	2.93	3.65	4.48	5.50	6.87	9.12	11.28
Nov	3.84	2.77	6.89	1986	9	10.08	1986	.14	1988	6.7	4.7	1.9	1.0	.36	.64	1.15	1.69	2.27	2.93	3.71	4.68	6.02	8.25	10.43
Dec	2.92	2.19	6.10	1995	17	9.68	1991	.26	1972	7.2	4.7	1.6	.8	.39	.62	1.04	1.45	1.87	2.35	2.90	3.57	4.49	5.98	7.43
Ann	43.87	45.46	14.65	Jun 1960	26	19.62	Sep 1979	.00+	May 1998	80.4	56.8	24.2	12.6	27.45	30.48	34.44	37.50	40.26	42.95	45.77	48.92	52.78	58.45	63.43

+ 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: 1957-2001

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NWS Call Sign:

Elevation: 20 Feet

Lat: 28°39N

Lon: 96°33W

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	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Feb	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.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	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	#	.0	N/A	N/A	#	Nov 1976	28	#	Nov 1976	0	0	0	0	0	.0	.0	.0	.0	.0	.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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NWS Call Sign:

Elevation: 20 Feet

Lat: 28°39N

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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	3/31	3/19	3/11	3/03	2/25	2/18	2/10	2/02	1/21
32	3/06	2/22	2/12	2/05	1/28	1/20	1/11	12/29	0/00
28	2/24	2/12	2/04	1/27	1/19	1/09	12/22	0/00	0/00
24	2/14	2/03	1/25	1/15	1/02	0/00	0/00	0/00	0/00
20	1/20	1/07	0/00	0/00	0/00	0/00	0/00	0/00	0/00
16	12/27	0/00	0/00	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	11/11	11/18	11/24	11/29	12/03	12/08	12/12	12/18	12/25
32	11/25	12/03	12/08	12/13	12/18	12/22	12/28	1/04	0/00
28	12/06	12/17	12/25	1/02	1/10	1/21	0/00	0/00	0/00
24	12/21	1/02	1/12	1/22	2/05	0/00	0/00	0/00	0/00
20	1/05	1/17	0/00	0/00	0/00	0/00	0/00	0/00	0/00
16	1/10	0/00	0/00	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	317	303	294	286	279	272	265	256	244
32	>365	>365	359	337	325	315	306	296	282
28	>365	>365	>365	>365	355	339	327	316	302
24	>365	>365	>365	>365	>365	>365	361	341	326
20	>365	>365	>365	>365	>365	>365	>365	>365	>365
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 8 NWS Call Sign: Elevation: 20 Feet Lat: 28°39N Lon: 96°33W

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	337	215	79	12	0	0	0	0	0	9	130	273	1055
60	224	126	24	1	0	0	0	0	0	2	65	168	610
57	171	85	10	0	0	0	0	0	0	0	39	119	424
55	138	62	5	0	0	0	0	0	0	0	26	90	321
50	70	23	1	0	0	0	0	0	0	0	9	37	140
32	0	0	0	0	0	0	0	0	0	0	0	0	0

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	717	741	1019	1152	1396	1509	1633	1622	1450	1274	970	785	14268
55	142	158	311	462	683	819	920	909	760	561	306	162	6193
57	113	125	254	402	621	759	858	847	700	499	258	129	5565
60	73	83	176	312	528	669	765	754	610	407	195	85	4657
65	31	32	76	174	373	519	610	599	460	260	110	34	3278
70	12	10	19	71	224	369	455	444	315	136	49	12	2116

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	487	547	776	921	1149	1274	1391	1379	1220	1035	738	556	487	1034	1810	2731	3880	5154	6545	7924	9144	10179	10917	11473
45	350	411	623	771	994	1124	1236	1224	1070	880	589	405	350	761	1384	2155	3149	4273	5509	6733	7803	8683	9272	9677
50	227	281	471	621	839	974	1081	1069	920	725	444	275	227	508	979	1600	2439	3413	4494	5563	6483	7208	7652	7927
55	126	172	324	472	684	824	926	914	770	571	307	165	126	298	622	1094	1778	2602	3528	4442	5212	5783	6090	6255
60	59	86	194	326	529	674	771	759	620	420	192	87	59	145	339	665	1194	1868	2639	3398	4018	4438	4630	4717
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	277	326	496	626	827	915	989	982	864	721	472	329	277	603	1099	1725	2552	3467	4456	5438	6302	7023	7495	7824

(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