

Climatography of the United States No. 20

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

Station: CORPUS CHRISTI INTL AP, TX

1971-2000

COOP ID: 412015

Climate Division: TX 7

NWS Call Sign: CRP

Elevation: 41 Feet

Lat: 27°46N

Lon: 97°31W

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	66.0	46.2	56.1	91	1971	30	62.4	2000	14	1962	12	47.4	1978	299	32	.0	.1	27.8	.0	2.5	.0
Feb	69.7	49.3	59.5	97	1986	19	67.4	2000	18	1951	1	49.9	1978	191	43	.0	.3	26.7	.1	1.2	.0
Mar	75.8	56.2	66.0	102	1989	30	71.2	2000	24	1980	2	61.4	1996	77	121	.1	1.1	30.9	.0	.3	.0
Apr	80.7	62.3	71.5	102+	1984	26	75.8	1991	33+	1987	3	67.3	1973	19	229	@	1.9	30.0	.0	.0	.0
May	85.6	69.5	77.5	103	1984	3	81.9	1989	47	1970	4	72.6	1976	0	402	.1	5.5	31.0	.0	.0	.0
Jun	90.2	73.5	81.9	106	1998	14	85.8	1998	58	1975	1	79.3	1974	0	520	.2	20.6	30.0	.0	.0	.0
Jul	93.2	74.4	83.8	103	2000	15	86.7	1998	64	1967	16	79.6	1976	0	594	.2	28.4	31.0	.0	.0	.0
Aug	93.4	74.5	83.9	103+	2000	31	85.6+	1997	64	1967	13	81.0	1971	0	598	.6	27.8	31.0	.0	.0	.0
Sep	89.9	71.6	80.8	109	2000	5	83.7	1986	52+	2000	27	76.7	1974	0	485	.3	18.7	30.0	.0	.0	.0
Oct	83.6	64.0	73.8	98	1950	22	76.9	1984	28	1993	31	65.4	1976	12	300	.0	5.5	31.0	.0	@	.0
Nov	74.9	55.4	65.1	98	1988	4	71.0	1994	28	1993	28	55.4	1976	103	122	.0	.4	29.7	.0	.2	.0
Dec	68.0	48.1	58.1	91	1977	5	66.5	1984	13	1989	23	48.0	1989	249	51	.0	.1	29.0	.1	1.6	.0
Ann	80.9	62.1	71.5	109	Sep 2000	5	86.7	Jul 1998	13	Dec 1989	23	47.4	Jan 1978	950	3497	1.5	110.4	358.1	.2	5.8	.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: 1948-2001

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

077-A

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Lon: 97°31W

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	1.62	1.24	4.47	1958	5	5.91	1984	.01	1996	7.7	3.5	.9	.3	.06	.14	.31	.52	.77	1.07	1.44	1.93	2.63	3.83	5.04
Feb	1.84	1.10	4.70	1982	25	8.11	1982	.00+	1976	6.3	2.6	.9	.6	.00	.08	.33	.60	.91	1.26	1.70	2.25	3.03	4.35	5.66
Mar	1.74	1.50	3.66	2000	14	4.89	1995	.00	1971	5.1	2.2	1.0	.6	.01	.05	.20	.40	.67	1.00	1.43	2.02	2.87	4.39	5.96
Apr	2.05	1.55	7.19	1956	23	6.00	1977	.00+	1984	5.2	2.5	1.3	.6	.00	.07	.33	.62	.95	1.36	1.85	2.48	3.38	4.92	6.46
May	3.48	2.85	4.00	1992	31	8.64	1981	.00	1998	6.6	4.6	2.1	1.3	.28	.66	1.22	1.73	2.26	2.84	3.49	4.30	5.37	7.12	8.81
Jun	3.53	2.80	4.87	1978	1	13.35	1973	.03	1980	6.7	4.6	2.2	1.2	.19	.38	.80	1.28	1.82	2.46	3.25	4.26	5.68	8.10	10.52
Jul	2.00	.97	3.77	1978	31	11.92	1976	.00	1993	4.7	3.0	1.2	.6	.00	.03	.15	.35	.62	1.00	1.51	2.23	3.31	5.30	7.38
Aug	3.54	2.78	6.93	1980	10	14.79	1980	.39	1977	6.9	4.3	1.9	.9	.31	.56	1.03	1.52	2.06	2.67	3.40	4.31	5.57	7.68	9.74
Sep	5.03	3.94	7.64	1955	6	13.77	1979	.49	1981	9.0	6.3	2.9	1.5	.60	.99	1.70	2.40	3.15	3.98	4.95	6.15	7.78	10.46	13.07
Oct	3.94	2.53	7.92	1995	29	12.03	1997	.11	1989	6.7	4.5	2.3	1.1	.27	.52	1.02	1.56	2.17	2.87	3.71	4.78	6.27	8.79	11.28
Nov	1.74	1.67	4.55	2001	16	4.77	1992	.12	1981	6.3	3.1	1.1	.4	.14	.26	.49	.73	1.00	1.30	1.66	2.11	2.74	3.79	4.82
Dec	1.75	.96	6.77	1991	21	9.80	1991	.06	1977	6.6	2.8	.8	.3	.06	.13	.31	.53	.80	1.13	1.54	2.07	2.85	4.19	5.55
Ann	32.26	34.43	7.92	Oct 1995	29	14.79	Aug 1980	.00+	May 1998	77.8	44.0	18.6	9.4	18.97	21.36	24.52	26.98	29.22	31.41	33.72	36.31	39.50	44.23	48.40

+ 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: 1948-2001

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

Complete documentation available from:
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Climate Division: TX 7

NWS Call Sign: CRP

Elevation: 41 Feet

Lat: 27°46N

Lon: 97°31W

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	.2	1973	11	.2	1973	#	1985	3	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Feb	.0	.0	#	0	1.0	1973	8	1.1	1973	1	1973	9	#	1973	.1	.0	.0	.0	.0	@	.0	.0	.0
Mar	#	.0	0	0	#	1989	5	#	1989	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	#	1985	.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	#	1979	23	#+	1979	#	1976	28	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	#	.0	0	0	#	1989	12	#+	1989	#+	1983	24	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	#	.0	N/A	N/A	1.0	Feb 1973	8	1.1	Feb 1973	1	Feb 1973	9	#+	May 1985	.1	.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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Climate Division: TX 7

NWS Call Sign: CRP

Elevation: 41 Feet

Lat: 27° 46N

Lon: 97° 31W

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	3/22	3/12	3/05	2/26	2/21	2/15	2/08	2/01	1/22
32	3/13	2/28	2/19	2/11	2/03	1/27	1/18	1/08	12/24
28	2/21	2/10	2/01	1/24	1/16	1/07	12/24	0/00	0/00
24	1/26	1/11	12/27	0/00	0/00	0/00	0/00	0/00	0/00
20	12/30	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
16	0/00	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	11/12	11/20	11/25	11/30	12/05	12/09	12/14	12/20	12/28
32	11/25	12/04	12/11	12/17	12/23	12/29	1/04	1/12	1/23
28	12/07	12/18	12/26	1/02	1/10	1/19	2/01	0/00	0/00
24	12/21	1/06	1/22	0/00	0/00	0/00	0/00	0/00	0/00
20	1/02	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
16	0/00	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	325	312	302	294	287	279	271	262	249
32	>365	346	335	326	319	312	305	297	286
28	>365	>365	>365	>365	>365	353	338	326	311
24	>365	>365	>365	>365	>365	>365	>365	>365	>365
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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COOP ID: 412015

Climate Division: TX 7 NWS Call Sign: CRP Elevation: 41 Feet Lat: 27°46N Lon: 97°31W

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	299	191	77	19	0	0	0	0	0	12	103	249	950
60	207	110	17	0	0	0	0	0	0	1	56	162	553
57	156	72	6	0	0	0	0	0	0	0	32	115	381
55	125	51	3	0	0	0	0	0	0	0	22	87	288
50	61	18	0	0	0	0	0	0	0	0	7	37	123
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	763	785	1072	1202	1427	1509	1617	1621	1475	1310	1008	825	14614
55	154	193	370	512	714	819	904	908	785	599	340	190	6488
57	121	155	314	453	652	759	842	846	725	538	290	153	5848
60	80	106	235	367	559	669	749	753	635	447	221	106	4927
65	32	43	121	229	402	520	594	598	485	300	122	51	3497
70	9	12	48	113	252	369	439	443	337	169	53	16	2260

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	532	596	835	972	1190	1279	1377	1384	1242	1071	779	590	532	1128	1963	2935	4125	5404	6781	8165	9407	10478	11257	11847
45	386	459	680	822	1035	1129	1222	1229	1092	916	630	445	386	845	1525	2347	3382	4511	5733	6962	8054	8970	9600	10045
50	265	325	528	672	880	979	1067	1074	942	761	483	311	265	590	1118	1790	2670	3649	4716	5790	6732	7493	7976	8287
55	158	209	378	523	725	829	912	919	792	607	348	194	158	367	745	1268	1993	2822	3734	4653	5445	6052	6400	6594
60	84	119	241	377	570	679	757	764	642	455	227	107	84	203	444	821	1391	2070	2827	3591	4233	4688	4915	5022
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	315	364	542	666	855	905	954	960	873	744	505	361	315	679	1221	1887	2742	3647	4601	5561	6434	7178	7683	8044

(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