

Climatology of the United States

No. 20

1971-2000

Station: PORT O CONNOR, TX

COOP ID: 417186

Climate Division: TX 8

NWS Call Sign:

Elevation: 5 Feet

Lat: 28°26N

Lon: 96°26W

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	60.6	47.9	54.3	80+	1989	2	60.3	1989	16	1949	31	46.9	1978	355	22	.0	.0	27.3	.0	2.4	.0
Feb	63.7	51.1	57.4	84	1971	27	64.1	2000	16	1949	1	48.5	1978	238	25	.0	.0	25.7	.1	1.3	.0
Mar	69.6	58.6	64.1	88+	2000	30	68.6	2000	24	1980	2	59.1	1996	97	68	.0	.0	30.8	.0	.2	.0
Apr	75.1	64.8	70.0	92	1971	24	73.7	1981	38+	1988	11	65.0	1987	17	165	.0	@	30.0	.0	.0	.0
May	80.7	72.1	76.4	97+	1984	4	80.7	1996	51	1955	30	73.0	1976	0	354	.0	.2	31.0	.0	.0	.0
Jun	86.0	77.4	81.7	97	1984	26	84.1	1980	59+	1975	1	78.8	1988	0	501	.0	7.4	30.0	.0	.0	.0
Jul	88.2	79.5	83.9	99	2001	27	86.3	1998	66	1972	7	81.3	1987	0	584	.0	17.4	31.0	.0	.0	.0
Aug	89.4	78.8	84.1	100	1954	31	86.7	1999	62	1966	26	80.8	1992	0	593	.1	22.5	31.0	.0	.0	.0
Sep	86.5	75.3	80.9	105	2000	6	84.2	1986	52	1985	30	77.4	1979	0	477	@	9.6	30.0	.0	.0	.0
Oct	81.1	67.0	74.1	93+	1995	2	76.8	1973	37	1976	21	65.1	1976	8	289	.0	.9	31.0	.0	.0	.0
Nov	71.9	58.1	65.0	93	1988	5	73.1	1973	29	1976	29	55.4	1976	126	125	.0	@	29.6	.0	.2	.0
Dec	64.1	49.8	57.0	85	1994	6	64.5	1984	10	1989	23	46.7	1989	286	36	.0	.0	28.7	.1	1.4	.0
Ann	76.4	65.0	70.7	105	Sep 2000	6	86.7	Aug 1999	10	Dec 1989	23	46.7	Dec 1989	1127	3239	.1	58.0	356.1	.2	5.5	.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

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: PORT O CONNOR, TX

COOP ID: 417186

Climate Division: TX 8

NWS Call Sign:

Elevation: 5 Feet

Lat: 28°26N

Lon: 96°26W

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	3.07	2.72	3.30	1979	11	8.97	1989	.00+	2000	6.8	3.7	1.4	.6	.00	.00	.64	1.24	1.81	2.42	3.10	3.93	5.06	6.83	8.57
Feb	2.20	1.98	3.98	1982	26	8.63	1982	.00+	2000	6.5	3.6	1.3	.4	.00	.00	.45	.81	1.20	1.63	2.13	2.76	3.61	5.02	6.41
Mar	1.73	1.23	3.11	1979	21	5.29	1997	.00+	2000	4.9	2.1	.8	.3	.00	.00	.37	.67	.97	1.30	1.69	2.17	2.81	3.89	4.94
Apr	1.55	1.27	7.75	1957	16	4.67	1976	.00+	1999	4.7	2.3	1.2	.3	.00	.00	.12	.35	.62	.95	1.35	1.88	2.62	3.90	5.19
May	3.70	3.55	4.87	1977	22	11.80	1981	.00+	1998	7.1	4.7	2.7	1.5	.00	.21	.75	1.31	1.93	2.64	3.49	4.55	6.04	8.55	11.03
Jun	2.77	2.07	4.45	1961	10	9.34	1981	.00+	1998	6.1	3.4	1.5	.7	.00	.00	.50	.96	1.44	1.99	2.64	3.45	4.56	6.43	8.26
Jul	3.05	1.74	12.50	1976	10	18.89	1976	.00+	2000	4.5	3.5	1.4	.9	.00	.00	.10	.51	1.04	1.71	2.54	3.64	5.23	7.97	10.81
Aug	2.94	2.62	8.15	1996	31	9.43	1975	.00+	2000	6.7	4.7	1.8	.8	.00	.00	.96	1.48	1.97	2.48	3.06	3.74	4.61	6.04	7.40
Sep	4.97	3.88	6.92	1979	19	18.56	1979	.00+	2000	6.9	4.6	2.2	1.4	.00	.00	1.80	2.68	3.48	4.32	5.25	6.35	7.71	9.96	12.08
Oct	4.45	3.54	12.20	1984	20	24.51	1984	.00+	2000	5.8	4.3	2.5	1.5	.00	.00	.90	1.76	2.59	3.47	4.46	5.69	7.34	9.93	12.49
Nov	2.53	1.94	3.51	1963	9	7.52	1982	.00+	1999	5.6	3.5	1.4	.7	.00	.00	.57	1.07	1.54	2.04	2.58	3.25	4.16	5.55	6.92
Dec	1.82	1.35	4.70	1971	5	7.45	1971	.00+	2000	6.4	3.3	1.2	.4	.00	.00	.20	.49	.82	1.21	1.66	2.25	3.07	4.43	5.80
Ann	34.78	36.05	12.50	Jul 1976	10	24.51	Oct 1984	.00+	Dec 2000	72.0	43.7	19.4	9.5	11.60	14.89	19.72	23.82	27.76	31.83	36.27	41.46	48.13	58.48	68.02

+ 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:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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Station: PORT O CONNOR, TX

COOP ID: 417186

Climate Division: TX 8

NWS Call Sign:

Elevation: 5 Feet

Lat: 28°26N

Lon: 96°26W

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	#	1975	13	#+	1975	#	1973	12	#	1973	.0	.0	.0	.0	.0	.0	.0	.0	.0
Feb	.1	.0	0	0	1.3	1973	9	1.3	1973	0	0	0	0	0	.1	.1	.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	29	#	1976	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	#	.0	0	0	#	1973	21	#	1973	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.1	.0	N/A	N/A	1.3	Feb 1973	9	1.3	Feb 1973	#	Jan 1973	12	#	Jan 1973	.1	.1	.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: 5 Feet

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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	3/18	3/06	2/25	2/17	2/09	2/01	1/23	1/08	0/00
32	3/04	2/21	2/13	2/05	1/29	1/20	1/06	0/00	0/00
28	2/14	2/02	1/23	1/14	1/03	12/15	0/00	0/00	0/00
24	2/03	1/22	1/12	12/31	0/00	0/00	0/00	0/00	0/00
20	1/03	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	11/14	11/22	11/28	12/04	12/09	12/14	12/21	12/30	0/00
32	11/30	12/10	12/17	12/24	12/31	1/08	1/19	0/00	0/00
28	12/21	1/02	1/10	1/19	1/31	0/00	0/00	0/00	0/00
24	12/26	1/08	1/19	2/01	0/00	0/00	0/00	0/00	0/00
20	1/10	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	>365	>365	330	314	302	292	281	269	253
32	>365	>365	>365	>365	338	325	314	304	290
28	>365	>365	>365	>365	>365	>365	>365	341	322
24	>365	>365	>365	>365	>365	>365	>365	>365	342
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: 5 Feet Lat: 28° 26N Lon: 96° 26W

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	355	238	97	17	0	0	0	0	0	8	126	286	1127
60	234	142	34	2	0	0	0	0	0	2	63	180	657
57	177	98	15	0	0	0	0	0	0	0	38	130	458
55	144	72	8	0	0	0	0	0	0	0	26	100	350
50	73	28	1	0	0	0	0	0	0	0	9	44	155
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	690	712	994	1138	1376	1491	1607	1616	1467	1303	990	774	14158
55	121	140	289	448	663	801	894	903	777	590	326	161	6113
57	93	109	234	388	601	741	832	841	717	529	278	129	5492
60	57	70	160	300	508	651	739	748	627	437	213	86	4596
65	22	25	68	165	354	501	584	593	477	289	125	36	3239
70	8	8	18	67	206	351	429	438	327	159	61	14	2086

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	444	497	731	897	1145	1260	1372	1371	1226	1050	746	525	444	941	1672	2569	3714	4974	6346	7717	8943	9993	10739	11264
45	306	361	576	747	990	1110	1217	1216	1076	895	599	381	306	667	1243	1990	2980	4090	5307	6523	7599	8494	9093	9474
50	181	237	426	597	835	960	1062	1061	926	740	451	249	181	418	844	1441	2276	3236	4298	5359	6285	7025	7476	7725
55	87	128	283	447	680	810	907	906	776	586	314	135	87	215	498	945	1625	2435	3342	4248	5024	5610	5924	6059
60	36	54	148	300	525	660	752	751	626	437	194	65	36	90	238	538	1063	1723	2475	3226	3852	4289	4483	4548
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	228	268	440	600	835	929	1000	985	889	738	467	291	228	496	936	1536	2371	3300	4300	5285	6174	6912	7379	7670

(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