

Climatology of the United States

No. 20

1971-2000

Station: TEMPLE, TX

COOP ID: 418910

Climate Division: TX 5

NWS Call Sign:

Elevation: 635 Feet Lat: 31°05N Lon: 97°19W

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	57.2	34.9	46.1	89	1943	23	53.1	1990	-2	1930	18	36.9	1979	593	3	.0	.0	22.1	.9	11.5	.0
Feb	61.9	39.0	50.5	97	1996	22	58.6	1976	2	1949	1	40.1	1978	415	8	.0	.1	22.9	.7	6.1	.0
Mar	69.6	46.3	58.0	98+	1971	29	64.7	1974	15+	1980	2	52.1	1996	247	28	.0	.3	29.7	@	1.9	.0
Apr	77.0	53.9	65.5	101	1963	9	70.9	1972	29	1914	9	59.1	1997	79	93	.0	1.2	29.9	.0	.1	.0
May	83.5	62.7	73.1	104	1927	29	79.5	1996	37	1992	7	69.0	1997	10	261	.0	5.2	31.0	.0	.0	.0
Jun	90.2	69.5	79.9	111	1918	18	84.3	1990	49	1919	3	76.5	1995	0	445	.6	18.1	30.0	.0	.0	.0
Jul	95.0	72.4	83.7	111	1933	11	87.8	1998	55+	1992	19	79.7	1991	0	579	4.6	26.9	31.0	.0	.0	.0
Aug	95.2	72.2	83.7	112	1947	11	86.8	1985	51+	1999	21	80.2	1971	0	581	5.3	27.9	31.0	.0	.0	.0
Sep	89.3	66.2	77.8	109	2000	4	82.5	1972	38	1942	27	70.6	1974	2	385	.7	17.1	30.0	.0	.0	.0
Oct	79.7	56.1	67.9	101	1938	2	71.6	1971	26	1917	30	60.4	1976	50	139	.0	3.8	30.9	.0	.1	.0
Nov	67.9	45.3	56.6	93	1949	29	62.9	1973	17	1991	4	49.6	1991	277	26	.0	@	28.0	.0	2.8	.0
Dec	59.2	37.6	48.4	87	1948	13	55.4	1984	-4+	1989	24	39.0	1983	518	3	.0	.0	24.2	.6	8.0	.1
Ann	77.1	54.7	65.9	112	Aug 1947	11	87.8	Jul 1998	-4+	Dec 1989	24	36.9	Jan 1979	2191	2551	11.2	100.6	340.7	2.2	30.5	.1

+ 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: 1897-2001

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

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No. 20 1971-2000

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

Station: TEMPLE, TX

COOP ID: 418910

Climate Division: TX 5

NWS Call Sign:

Elevation: 635 Feet Lat: 31°05N

Lon: 97°19W

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	1.91	1.49	4.71	1965	22	5.39	1991	.05	1971	7.2	4.2	1.3	.3	.18	.32	.57	.84	1.13	1.45	1.84	2.32	2.99	4.09	5.18
Feb	2.70	2.67	5.71	1986	4	7.40	1986	.00	1996	7.2	4.1	1.9	.8	.14	.39	.79	1.19	1.61	2.08	2.64	3.32	4.25	5.80	7.30
Mar	2.65	2.38	3.44	1990	14	6.53	1985	.08	1971	7.7	4.5	2.0	.6	.39	.61	.99	1.36	1.74	2.16	2.64	3.23	4.03	5.32	6.56
Apr	2.81	2.26	5.70	1900	26	9.79	1997	.16	1983	6.9	4.2	2.0	.9	.45	.69	1.10	1.49	1.89	2.32	2.82	3.43	4.24	5.56	6.82
May	4.56	4.04	5.34	1908	18	9.87	1992	.24	1998	8.1	5.5	3.4	1.3	1.09	1.52	2.18	2.78	3.37	3.99	4.69	5.52	6.61	8.34	9.96
Jun	3.71	3.68	5.30	1964	16	13.62	1981	.17	1998	6.7	5.0	2.3	1.2	.44	.73	1.25	1.77	2.32	2.93	3.65	4.53	5.73	7.71	9.63
Jul	1.82	1.23	6.73	1902	24	5.47	1988	.00+	1993	4.5	2.8	1.3	.6	.00	.00	.21	.51	.84	1.23	1.68	2.26	3.08	4.42	5.76
Aug	2.20	1.23	5.10	2001	31	7.10	1975	.00+	1993	4.6	3.3	1.6	.7	.00	.15	.49	.83	1.19	1.61	2.11	2.72	3.57	5.00	6.40
Sep	4.00	3.55	9.00	1921	10	10.25	1996	.28	1982	6.5	4.7	2.2	1.2	.41	.70	1.25	1.81	2.41	3.09	3.89	4.89	6.25	8.50	10.71
Oct	3.73	2.86	9.62	1998	17	13.54	1998	.22	1987	6.6	4.4	2.3	1.2	.36	.62	1.13	1.65	2.21	2.85	3.60	4.55	5.85	8.00	10.12
Nov	3.04	2.68	4.66	1937	9	8.08	2000	.13	1999	6.9	4.6	2.2	.8	.44	.69	1.12	1.55	1.99	2.47	3.03	3.71	4.63	6.13	7.58
Dec	2.68	2.49	4.43	1913	3	8.98	1991	.29	1989	6.7	4.1	1.8	.7	.45	.68	1.07	1.44	1.82	2.23	2.70	3.28	4.04	5.28	6.47
Ann	35.81	34.46	9.62	Oct 1998	17	13.62	Jun 1981	.00+	Feb 1996	79.6	51.4	24.3	10.3	22.55	25.00	28.19	30.67	32.89	35.07	37.34	39.87	42.98	47.54	51.54

+ 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: 1897-2001

(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: TEMPLE, TX

COOP ID: 418910

Climate Division: TX 5

NWS Call Sign:

Elevation: 635 Feet

Lat: 31°05N

Lon: 97°19W

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	.4	.0	#	0	3.5	1982	14	4.5	1973	2	1985	3	#+	1985	.2	.2	.1	.0	.0	.1	.0	.0	.0
Feb	.4	.0	#	0	4.0	1985	2	4.0	1985	4	1985	2	#+	1989	.2	.1	.1	.0	.0	.2	.1	.0	.0
Mar	.0	.0	#	0	.5	1982	6	.5	1982	#	1987	30	#	1987	.1	.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	.2	1990	27	.2	1990	#+	1990	28	#+	1990	.1	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.8	.0	N/A	N/A	4.0	Feb 1985	2	4.5	Jan 1973	4	Feb 1985	2	#+	Dec 1990	.6	.3	.2	.0	.0	.3	.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: 635 Feet

Lat: 31°05N

Lon: 97°19W

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	4/11	4/04	3/30	3/25	3/21	3/17	3/13	3/08	3/01
32	3/24	3/17	3/11	3/07	3/03	2/26	2/22	2/16	2/09
28	3/11	3/03	2/25	2/20	2/16	2/11	2/06	1/31	1/23
24	2/27	2/18	2/12	2/07	2/02	1/27	1/20	1/10	0/00
20	2/15	2/05	1/29	1/22	1/15	1/08	12/29	0/00	0/00
16	2/09	1/29	1/20	1/10	12/24	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	10/25	10/31	11/04	11/08	11/12	11/15	11/19	11/24	11/30
32	11/02	11/09	11/14	11/18	11/22	11/26	12/01	12/06	12/13
28	11/14	11/22	11/28	12/03	12/08	12/13	12/18	12/24	1/01
24	11/27	12/05	12/11	12/16	12/22	12/27	1/03	1/13	0/00
20	12/04	12/16	12/26	1/04	1/12	1/23	2/07	0/00	0/00
16	12/26	1/07	1/18	1/30	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	264	254	247	241	235	229	223	216	206
32	293	283	276	270	264	258	252	245	235
28	322	313	306	300	295	289	283	276	267
24	>365	>365	363	341	329	319	310	299	285
20	>365	>365	>365	>365	>365	353	338	325	311
16	>365	>365	>365	>365	>365	>365	>365	363	339

* 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 5 NWS Call Sign: Elevation: 635 Feet Lat: 31°05N Lon: 97°19W

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	593	415	247	79	10	0	0	0	2	50	277	518	2191
60	449	289	142	26	1	0	0	0	0	14	171	376	1468
57	368	224	94	11	0	0	0	0	0	6	121	296	1120
55	317	185	68	6	0	0	0	0	0	3	93	248	920
50	211	108	25	0	0	0	0	0	0	0	41	150	535
32	16	2	0	0	0	0	0	0	0	0	0	4	22

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	451	520	804	1004	1274	1435	1602	1604	1373	1112	739	512	12430
55	39	59	159	319	561	745	889	891	683	402	141	43	4931
57	28	41	123	265	499	685	827	829	623	342	109	29	4400
60	16	22	78	190	407	595	734	736	533	258	70	16	3655
65	3	8	28	93	261	445	579	581	385	139	26	3	2551
70	0	0	8	32	139	296	424	426	247	57	7	0	1636

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	265	356	587	771	1033	1190	1350	1361	1144	879	517	314	265	621	1208	1979	3012	4202	5552	6913	8057	8936	9453	9767
45	164	243	440	622	878	1040	1195	1206	994	726	376	198	164	407	847	1469	2347	3387	4582	5788	6782	7508	7884	8082
50	86	147	303	474	723	890	1040	1051	844	571	255	106	86	233	536	1010	1733	2623	3663	4714	5558	6129	6384	6490
55	39	78	187	335	568	740	885	896	694	423	153	49	39	117	304	639	1207	1947	2832	3728	4422	4845	4998	5047
60	12	33	97	204	416	590	730	741	545	284	78	21	12	45	142	346	762	1352	2082	2823	3368	3652	3730	3751
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	170	223	363	494	706	816	901	901	771	578	313	188	170	393	756	1250	1956	2772	3673	4574	5345	5923	6236	6424

(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