

Climatography of the United States

No. 20

1971-2000

Station: TAYLOR, TX

COOP ID: 418861

Climate Division: TX 5

NWS Call Sign:

Elevation: 565 Feet Lat: 30°34N Lon: 97°25W

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	59.2	35.8	47.5	89	1972	24	54.2	1990	-5	1949	31	39.0	1979	549	3	.0	.0	23.1	.7	12.7	.0
Feb	64.0	39.5	51.8	99	1996	22	58.1	1999	2	1951	2	42.9	1978	379	7	.0	.3	23.7	.6	7.0	.0
Mar	72.3	46.9	59.6	99	1946	30	65.2	1974	15+	1980	2	54.4	1996	197	28	.0	.4	29.8	.0	2.4	.0
Apr	78.9	53.6	66.3	101	1963	10	71.4	1972	29	1987	1	61.8	1997	58	96	.0	1.8	30.0	.0	.1	.0
May	85.3	62.5	73.9	100+	1998	8	79.8	1996	41+	1981	12	68.8	1976	7	282	.1	6.6	31.0	.0	.0	.0
Jun	91.3	69.0	80.2	106	1936	21	85.2	1998	51	1984	1	76.8	1983	0	454	.8	20.2	30.0	.0	.0	.0
Jul	95.3	71.9	83.6	112	1954	27	87.4	1998	58	1967	16	79.7	1976	0	576	4.7	28.3	31.0	.0	.0	.0
Aug	95.7	71.3	83.5	112	1962	11	86.6	1977	55	1967	13	79.7	1971	0	574	5.2	28.6	31.0	.0	.0	.0
Sep	90.2	65.8	78.0	112	2000	4	82.7	1977	38	1942	27	70.6	1974	1	391	1.1	19.5	30.0	.0	.0	.0
Oct	81.0	56.2	68.6	103	1938	2	71.5	1979	27+	1993	31	59.1	1976	39	151	.0	4.8	31.0	.0	.1	.0
Nov	69.2	45.5	57.4	93	1947	11	63.1	1973	17	1976	29	49.3	1976	259	30	.0	.0	28.3	.0	3.5	.0
Dec	61.1	37.8	49.5	88	1955	26	57.4	1984	0	1989	24	40.3	1989	489	7	.0	.0	25.5	.5	9.5	@
Ann	78.6	54.7	66.7	112+	Sep 2000	4	87.4	Jul 1998	-5	Jan 1949	31	39.0	Jan 1979	1978	2599	11.9	110.5	344.4	1.8	35.3	@

+ 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/normals/usnormals.html

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1929-2001

(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: TAYLOR, TX

COOP ID: 418861

Climate Division: TX 5

NWS Call Sign:

Elevation: 565 Feet Lat: 30°34N

Lon: 97°25W

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	2.09	1.79	4.41	1965	22	8.36	1991	.00	1996	8.0	4.2	1.3	.4	.12	.31	.63	.94	1.27	1.63	2.05	2.58	3.29	4.46	5.61
Feb	2.38	2.05	3.76	1969	14	8.14	1992	.00	1999	7.6	4.4	1.8	.6	.32	.62	1.02	1.36	1.70	2.05	2.45	2.93	3.56	4.56	5.50
Mar	2.63	2.30	5.04	1995	13	5.80	1995	.38	1986	7.5	4.5	1.7	.6	.68	.93	1.31	1.65	1.98	2.33	2.72	3.18	3.78	4.73	5.62
Apr	2.68	2.60	4.17	1967	11	9.42	1976	.15	1983	7.0	3.8	2.0	.8	.28	.47	.84	1.21	1.62	2.07	2.60	3.27	4.17	5.68	7.15
May	5.19	5.08	4.50	1942	18	10.95	1995	.36	1998	8.4	5.9	3.4	2.0	1.22	1.70	2.46	3.14	3.82	4.53	5.33	6.29	7.54	9.53	11.40
Jun	3.78	3.27	6.00	1958	17	15.18	1981	.28	1998	6.8	5.1	2.2	1.1	.50	.81	1.35	1.87	2.43	3.04	3.74	4.62	5.79	7.72	9.58
Jul	1.62	1.29	3.63	1941	12	5.15	1979	.00+	1994	4.3	2.8	.9	.5	.00	.00	.31	.58	.86	1.18	1.56	2.03	2.67	3.74	4.80
Aug	2.09	1.27	4.31	1959	27	7.64	1983	.00	1993	4.9	3.3	1.4	.7	.02	.09	.30	.56	.89	1.29	1.80	2.47	3.45	5.16	6.90
Sep	3.30	3.35	5.69	1932	3	8.70	1974	.26	1989	7.3	4.8	2.1	1.1	.59	.88	1.36	1.81	2.27	2.77	3.34	4.02	4.93	6.40	7.81
Oct	3.83	2.72	4.75	1994	8	13.09	1984	.52	1978	7.1	4.9	2.5	1.2	.56	.87	1.43	1.96	2.51	3.12	3.82	4.68	5.83	7.71	9.53
Nov	2.95	2.68	4.00+	1978	6	9.04	2000	.15	1999	7.6	4.4	2.1	.8	.46	.72	1.15	1.55	1.97	2.43	2.96	3.61	4.47	5.87	7.22
Dec	2.57	1.94	6.00	1953	2	13.13	1991	.28	1977	8.0	4.0	1.7	.8	.28	.48	.83	1.19	1.58	2.01	2.51	3.14	4.00	5.41	6.79
Ann	35.11+	35.50+	6.00+	Jun 1958	17	15.18	Jun 1981	.00+	Feb 1999	84.5	52.1	23.1	10.6	23.99	26.11	28.84	30.93	32.79	34.60	36.48	38.56	41.09	44.77	47.98

+ 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: 1929-2001

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

Complete documentation available from:
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Station: TAYLOR, TX

COOP ID: 418861

Climate Division: TX 5

NWS Call Sign:

Elevation: 565 Feet

Lat: 30°34N

Lon: 97°25W

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	.1	.0	#	0	1.0	1973	11	1.0	1973	1	1973	11	#	1973	.1	.1	.0	.0	.0	@	.0	.0	.0
Feb	.3	.0	#	0	3.0	1973	9	3.0	1973	3	1985	2	#+	1994	.1	.1	.1	.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	.0	0	0	.0	0	2	1980	26	#	1980	.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	.4	.0	N/A	N/A	3.0	Feb 1973	9	3.0	Feb 1973	3	Feb 1985	2	#+	Feb 1994	.2	.2	.1	.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 5

NWS Call Sign:

Elevation: 565 Feet

Lat: 30°34N

Lon: 97°25W

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	4/12	4/05	3/31	3/27	3/23	3/19	3/15	3/10	3/03
32	3/30	3/21	3/15	3/10	3/05	3/01	2/23	2/17	2/09
28	3/18	3/09	3/03	2/26	2/21	2/16	2/11	2/05	1/28
24	3/04	2/21	2/13	2/05	1/29	1/22	1/14	1/03	0/00
20	2/18	2/07	1/30	1/22	1/14	1/03	0/00	0/00	0/00
16	2/03	1/22	1/11	12/29	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	10/26	10/31	11/05	11/08	11/11	11/15	11/18	11/22	11/28
32	11/01	11/07	11/12	11/16	11/20	11/24	11/28	12/03	12/10
28	11/12	11/20	11/26	12/01	12/06	12/11	12/16	12/22	12/30
24	11/23	12/01	12/07	12/12	12/16	12/21	12/27	1/04	0/00
20	12/11	12/22	12/31	1/08	1/17	1/30	0/00	0/00	0/00
16	12/27	1/08	1/19	2/02	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	258	250	243	238	232	227	222	215	206
32	287	277	271	265	259	254	248	241	231
28	320	309	301	294	287	281	274	266	254
24	>365	>365	352	332	320	311	302	293	280
20	>365	>365	>365	>365	>365	348	335	323	310
16	>365	>365	>365	>365	>365	>365	>365	>365	358

* 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: 565 Feet Lat: 30°34N Lon: 97°25W

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	549	379	197	58	7	0	0	0	1	39	259	489	1978
60	406	255	99	14	0	0	0	0	0	10	156	347	1287
57	326	191	58	4	0	0	0	0	0	4	109	270	962
55	278	155	38	2	0	0	0	0	0	2	83	225	783
50	179	83	10	0	0	0	0	0	0	0	35	134	441
32	10	0	0	0	0	0	0	0	0	0	0	3	13

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	491	552	854	1028	1298	1444	1599	1597	1381	1135	761	544	12684
55	45	63	180	340	585	754	886	884	691	424	154	54	5060
57	31	44	138	282	523	694	824	822	631	364	120	37	4510
60	18	23	86	202	430	604	731	729	541	277	77	20	3738
65	3	7	28	96	282	454	576	574	391	151	30	7	2599
70	0	0	6	31	154	305	421	419	250	62	9	0	1657

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	279	372	611	792	1054	1207	1360	1356	1147	891	531	330	279	651	1262	2054	3108	4315	5675	7031	8178	9069	9600	9930
45	174	253	461	642	899	1057	1205	1201	997	736	392	209	174	427	888	1530	2429	3486	4691	5892	6889	7625	8017	8226
50	96	153	327	495	744	907	1050	1046	847	581	268	117	96	249	576	1071	1815	2722	3772	4818	5665	6246	6514	6631
55	47	82	201	351	589	757	895	891	697	435	166	57	47	129	330	681	1270	2027	2922	3813	4510	4945	5111	5168
60	18	38	112	218	434	607	740	736	547	291	88	23	18	56	168	386	820	1427	2167	2903	3450	3741	3829	3852
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	188	243	394	513	716	832	901	894	766	587	339	212	188	431	825	1338	2054	2886	3787	4681	5447	6034	6373	6585

(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.

- a. Temperature/ Precipitation Tables
 - 1. 1971-2000 Monthly Normals
 - 2. Cooperative Summary of the Day
 - 3. National Weather Service station records
 - 4. 1971-2000 serially complete daily data
- b. Degree Day Table
 - 1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals
 - 2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data
- c. Snow Tables
 - 1. Snow Climatology
 - 2. Cooperative Summary of the Day
- d. 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