Station: TILDEN 4 SSE, TX

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

COOP ID: 419031

Climate Division: TX 9 NWS Call Sign: Elevation: 345 Feet Lat: 28°25N Lon: 98°32W

									r	Гетр	eratur	re (°F)											
	Mea	n (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	66.2	40.1	53.2	95	1971	4	60.8	1998	9+	1962	12	45.5	1985	390	22	.0	.1	27.0	.2	5.5	.0		
Feb	71.3	44.1	57.7	100	1996	22	65.7	2000	16+	1905	13	48.3	1978	233	28	@	.7	26.2	.1	3.2	.0		
Mar	79.3	51.5	65.4	104+	1984	28	70.3	2000	20	1980	2	59.7	1996	79	92	.1	3.0	30.8	.0	.8	.0		
Apr	85.4	57.8	71.6	108	1984	21	76.1	1986	33	1973	9	66.7	1992	13	211	.5	8.0	30.0	.0	.0	.0		
May	90.8	66.0	78.4	109	1983	3	84.0	1989	38	1908	1	73.8	1976	1	416	1.8	16.8	31.0	.0	.0	.0		
Jun	95.7	70.7	83.2	113	1998	16	89.6	1998	54	1979	11	80.1	1973	0	545	5.8	26.4	30.0	.0	.0	.0		
Jul	98.7	72.2	85.5	119	1910	2	89.7	1998	56	1905	11	80.5	1976	0	633	13.3	29.8	31.0	.0	.0	.0		
Aug	98.6	71.5	85.1	113	1909	19	87.4	1985	59	1967	13	81.6	1971	0	621	12.7	30.1	31.0	.0	.0	.0		
Sep	93.6	67.6	80.6	110+	2000	10	84.6	1986	41	1909	29	74.7	1974	0	468	3.5	23.8	30.0	.0	.0	.0		
Oct	85.6	59.0	72.3	103	1977	9	75.2	1996	26	1993	31	63.4	1976	11	238	.1	10.9	30.9	.0	.0	.0		
Nov	75.3	50.1	62.7	99	1909	3	68.4	1973	22	1903	27	54.4	1976	150	81	.0	1.2	29.5	.0	1.1	.0		
Dec	67.7	42.2	55.0	92	1977	5	63.0	1984	5	1989	23	44.2	1989	336	24	.0	.1	28.4	.2	4.4	.0		
Ann	84.0	57.7	70.9	119	Jul 1910	2	89.7	Jul 1998	5	Dec 1989	23	44.2	Dec 1989	1213	3379	37.8	150.9	355.8	.5	15.0	.0		

⁺ Also occurred on an earlier date(s)

Complete documentation available from: www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

Issue Date: February 2004 288-A

[@] Denotes mean number of days greater than 0 but less than .05

⁽¹⁾ From the 1971-2000 Monthly Normals

⁽²⁾ Derived from station's available digital record: 1903-2001

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

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COOP ID: 419031

Station: TILDEN 4 SSE, TX

Climate Division: TX 9 NWS Call Sign: Elevation: 345 Feet Lat: 28°25N Lon: 98°32W

										Pı	recipit	tation	(incl	nes)										
			P	recipi	itatio	n Total	s			M	ean N	Numbo Pays (3		Precipitation Probabilities (1) Probability that the monthly/annual precipitation will be equal to or less than the indicated amount										ın the
	Medi					Extremes	3			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	1.15	1.14	2.95	1968	20	3.20	1992	.00	1996	6.9	2.7	.7	.1	.04	.13	.29	.45	.64	.85	1.10	1.41	1.85	2.58	3.30
Feb	1.27	.86	1.90	1987	25	4.64	1992	.00+	1999	5.1	2.6	.8	.2	.00	.09	.29	.49	.70	.94	1.22	1.57	2.05	2.86	3.65
Mar	1.33	.89	2.08	1994	9	5.06	1994	.00	1971	5.0	2.4	.9	.4	.03	.11	.29	.47	.69	.93	1.23	1.62	2.15	3.06	3.97
Apr	1.95	1.71	3.44	1908	19	5.38	1992	.00	1983	5.4	3.1	1.6	.5	.04	.14	.38	.65	.96	1.33	1.78	2.36	3.17	4.57	5.97
May	3.10	2.39	3.85	1986	11	9.22	1997	.00	1998	6.6	4.5	1.9	1.0	.08	.30	.71	1.15	1.65	2.22	2.91	3.78	5.00	7.06	9.10
Jun	3.37	3.11	5.12	1994	10	9.65	1994	.00	1980	5.9	4.5	2.3	1.3	.07	.27	.70	1.17	1.70	2.33	3.10	4.09	5.47	7.83	10.18
Jul	1.52	1.21	5.82	1976	5	12.74	1976	.00+	2000	4.1	2.5	.8	.4	.00	.00	.15	.35	.60	.91	1.30	1.81	2.54	3.83	5.13
Aug	2.56	2.11	4.08	1980	11	7.53	1980	.00	1985	5.1	3.2	1.5	.8	.08	.28	.63	1.00	1.41	1.88	2.43	3.14	4.11	5.74	7.36
Sep	2.91	2.30	6.93	1967	22	9.51	1972	.13	1987	6.5	3.8	1.6	.9	.34	.57	.98	1.39	1.82	2.30	2.86	3.55	4.50	6.05	7.56
Oct	2.14	1.56	2.89	1960	17	6.95	1976	.00	1987	5.0	3.2	1.4	.6	.03	.15	.40	.69	1.03	1.43	1.93	2.58	3.49	5.06	6.64
Nov	1.38	1.25	2.13	1977	2	3.97	1980	.00+	1999	4.9	2.4	.9	.4	.00	.00	.15	.35	.58	.86	1.21	1.66	2.31	3.43	4.56
Dec	1.19	.67	3.70	1991	21	8.91	1991	.03+	1977	6.1	2.2	.6	.2	.03	.08	.20	.34	.52	.75	1.03	1.40	1.95	2.89	3.86
Ann	23.87	22.82	6.93	Sep 1967	22	12.74	Jul 1976	.00+	Jul 2000	66.6	37.1	15.0	6.8	13.14	15.02	17.53	19.51	21.32	23.11	24.99	27.12	29.76	33.68	37.17

⁺ Also occurred on an earlier date(s)

Complete documentation available from:

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

[#] 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: 1903-2001

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

Climatography of the United States No. 20 1971-2000

Elevation: 345 Feet

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

COOP ID: 419031

Lon: 98°32W

Station: TILDEN 4 SSE, TX

Climate Division: TX 9 NWS Call Sign:

Snow (inches) **Snow Totals** Mean Number of Days (1) **Snow Fall Snow Depth** Means/Medians (1) Extremes (2) >= Thresholds >= Thresholds Highest Highest Highest Highest Monthly Snow Snow Snow Snow Monthly Daily Daily Fall Fall Depth Depth Day Year Year Year Day Year 0.1 1.0 3.0 5.0 10.0 1 3 5 10 Month Mean Snow Snow Snow Median Median Mean Mean Snow Fall Fall Depth Depth Jan .0 .0 # 0 .0 0 0 .0 0 5 1985 12 #+ 1995 .0 .0 .0 .0 .0 .0 .0 0. .0 .1 0. 0 1973 9 1973 1973 9 .0 0. .0 0. Feb # 2.0 2.0 # 1973 @ @ @ 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 0. Apr .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. Jun .0 .0 0 0 .0 0 0 .0 0 0 0 0 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 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 Sep .0 1993 1993 Oct # 0. 0 0 # 31 # 0 0 0 0 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 Dec .0 .0 0 0 .0 0 0 .0 0 0 0 0 0 0 .0 .0 .0 0. .0 .0 .0 0. 0. Feb Feb Jan Jan Ann 9 (a) (a) .0 0. (a) 0. 0. 2.0 2.0 5 12 #+ .0 0. .0 N/A N/A 1973 1973 1985 1995

Complete documentation available from: www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

Lat: 28°25N

⁺ 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

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

COOP ID: 419031

Lon: 98°32W

Lat: 28°25N

Station: TILDEN 4 SSE, TX

Climate Division: TX 9 NWS Call Sign:

VS Call Sign: Elevation: 345 Feet

				Freez	e Data										
			Spri	ng Freeze D	ates (Month	/Day)									
Temp (F)		P	robability of	later date i	n spring (thr	u Jul 31) tha	n indicated((*)							
Temp (r)	.10	.20	.30	.40	.50	.60	.70	.80	.90						
36	4/03	3/25	3/18	3/13	3/08	3/02	2/25	2/18	2/09						
32	3/20	3/10	3/04	2/26	2/21	2/16	2/10	2/04	1/26						
28	3/03	2/19	2/11	2/04	1/28	1/20	1/10	12/23	0/00						
24	2/18	2/07	1/29	1/21	1/13	1/02	12/15	0/00	0/00						
20	2/03	1/18	1/01	0/00	0/00	0/00	0/00	0/00	0/00						
16	12/25	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00						
			Fal	ll Freeze Da	tes (Month/I	Day)		•	•						
Tomp (E)	Probability of earlier date in fall (beginning Aug 1) than indicated(*)														
Temp (F)	.10	.20	.30	.40	.50	.60	.70	.80	.90						
36	10/31	11/06	11/11	11/15	11/19	11/23	11/27	12/01	12/08						
32	11/16	11/22	11/26	11/29	12/03	12/06	12/10	12/14	12/20						
28	11/22	12/02	12/10	12/16	12/23	12/30	1/07	1/24	0/00						
24	12/01	12/13	12/23	12/31	1/09	1/20	2/08	0/00	0/00						
20	12/20	1/04	1/20	0/00	0/00	0/00	0/00	0/00	0/00						
16	12/24	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00						
		1	1	Freeze F	ree Period	1		•	•						
Tomp (F)			Probability	of longer th	an indicated	freeze free p	eriod (Days)								
Temp (F)	.10	.20	.30	.40	.50	.60	.70	.80	.90						
36	287	276	269	262	256	249	243	235	224						
32	314	304	296	290	284	278	272	265	254						
28	>365	>365	>365	353	335	323	311	299	284						
24	>365	>365	>365	>365	>365	338	328	320	311						
20	>365	>365	>365	>365	>365	>365	>365	>365	352						
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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Station: TILDEN 4 SSE, TX

COOP ID: 419031

Climate Division: TX 9 NWS Call Sign: Elevation: 345 Feet Lat: 28°25N Lon: 98°32W

	Degree Days to Selected Base Temperatures (°F)														
Base						Heatin	g Degree l	Days (1)							
Below	Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Ann														
65	390	233	79	13	1	0	0	0	0	11	150	336	1213		
60	266	140	26	1	0	0	0	0	0	2	78	218	731		
57	206	96	11	0	0	0	0	0	0	0	47	162	522		
55	172	72	6	0	0	0	0	0	0	0	32	130	412		
50	96	29	1	0	0	0	0	0	0	0	11	63	200		
32	0	0	0	0	0	0	0	0	0	0	0	0	0		

Base						Coolin	g Degree I	Days (1)					
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	655	719	1036	1189	1438	1535	1656	1644	1458	1249	922	711	14212
55	114	147	329	499	725	845	943	931	768	536	264	128	6229
57	86	116	272	439	663	785	881	869	708	475	219	98	5611
60	53	75	194	350	570	695	788	776	618	383	159	61	4722
65	22	28	92	211	416	545	633	621	468	238	81	24	3379
70	9	9	29	103	271	395	478	466	320	117	31	8	2236

	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	433	533	800	958	1198	1303	1418	1413	1234	1019	699	486	433	966	1766	2724	3922	5225	6643	8056	9290	10309	11008	11494
45	301	400	647	808	1043	1153	1263	1258	1084	864	550	350	301	701	1348	2156	3199	4352	5615	6873	7957	8821	9371	9721
50	187	274	494	659	888	1003	1108	1103	934	709	412	226	187	461	955	1614	2502	3505	4613	5716	6650	7359	7771	7997
55	102	174	350	512	733	853	953	948	784	559	282	128	102	276	626	1138	1871	2724	3677	4625	5409	5968	6250	6378
60	48	94	220	365	578	703	798	793	634	413	176	63	48	142	362	727	1305	2008	2806	3599	4233	4646	4822	4885
Base		ı	ı	Gro	wing Deg	gree Unit	s for Co	rn (Mont	thly)						Gr	owing D	egree Un	its for C	orn (Acc	umulate	d Month	ly)		
50/86	275	340	519	632	813	863	924	913	816	682	453	313	275	615	1134	1766	2579	3442	4366	5279	6095	6777	7230	7543

(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.

Compete documentation for the 1971-2000 Normals is available on the internet from:

www.ncdc.noaa.gov/oa/climate/normals/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 are 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

- c. Snow Tables
 - 1. Snow Climatology
 - 2. Cooperative Summary of the Day
- d. Freeze Data Table

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

References

U.S. Climate Normals 1971-2000, www.ncdc.noaa.gov/normals.html

U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normals/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