

Climatography of the United States

No. 20

1971-2000

Station: TAHOKA, TX

COOP ID: 418818

Climate Division: TX 1

NWS Call Sign:

Elevation: 3,120 Feet Lat: 33° 10N

Lon: 101° 48W

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	52.7	25.1	38.9	86	1969	9	45.2	1999	-5+	1964	13	30.3	1979	809	0	.0	.0	19.8	3.1	26.0	.2
Feb	58.6	29.0	43.8	89	1917	28	51.3+	2000	-15	1933	8	33.9	1978	594	0	.0	.0	22.2	1.7	19.2	@
Mar	66.8	34.7	50.8	96+	1989	13	56.5	1974	3+	1948	11	46.1	1987	442	0	.0	.3	28.0	.3	10.6	.0
Apr	75.2	43.5	59.4	99+	1989	23	64.2	1978	20	1973	9	53.5	1973	203	33	.0	2.4	29.1	.0	2.4	.0
May	82.9	53.9	68.4	108	2000	25	76.0	1996	30	1917	7	64.6	1976	55	161	1.0	8.4	30.9	.0	.0	.0
Jun	89.8	62.3	76.1	111	1994	28	82.5	1990	42	1917	2	71.0	1983	4	336	3.2	16.7	30.0	.0	.0	.0
Jul	92.2	66.1	79.2	109	1933	14	84.6	1998	48	1915	5	73.6	1976	0	439	2.6	22.4	31.0	.0	.0	.0
Aug	90.5	64.6	77.6	109	1917	12	82.0	1999	45	1915	31	72.5	1971	1	390	1.7	19.4	31.0	.0	.0	.0
Sep	84.0	58.0	71.0	104+	1983	7	77.8	1977	33	1983	22	64.2	1974	29	210	.8	9.7	29.7	.0	.0	.0
Oct	75.5	47.0	61.3	101+	2000	4	65.3	1998	19	1993	31	54.4	1976	154	37	.1	1.7	30.3	@	1.1	.0
Nov	62.9	34.6	48.8	89	1996	21	56.9	1999	4	1976	14	42.4	1972	491	3	.0	.0	25.2	.5	11.5	.0
Dec	54.9	27.4	41.2	83	1937	12	45.3	1994	-3	1989	23	31.6	1983	741	0	.0	.0	21.6	1.7	23.7	.1
Ann	73.8	45.5	59.7	111	Jun 1994	28	84.6	Jul 1998	-15	Feb 1933	8	30.3	Jan 1979	3523	1609	9.4	81.0	328.8	7.3	94.5	.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/normal/usnormals.html

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1913-2001

(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: TAHOKA, TX

COOP ID: 418818

Climate Division: TX 1

NWS Call Sign:

Elevation: 3,120 Feet Lat: 33°10N

Lon: 101°48W

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	.66	.55	1.99	1939	8	2.75	1983	.00+	1998	4.0	1.7	.3	@	.00	.00	.07	.21	.34	.48	.64	.85	1.12	1.56	2.01
Feb	.79	.50	1.43	1981	28	2.50	1997	.00+	1999	3.8	2.1	.4	.1	.00	.03	.12	.23	.36	.51	.71	.96	1.31	1.93	2.55
Mar	.71	.46	1.57	1970	6	2.55	2000	.00	1984	3.5	1.7	.4	.1	.01	.04	.12	.21	.32	.46	.63	.85	1.17	1.72	2.27
Apr	1.48	1.02	3.56	1980	23	5.88	1977	.00+	1991	4.4	2.8	.9	.3	.00	.04	.21	.41	.65	.94	1.31	1.78	2.45	3.62	4.79
May	2.74	2.20	3.95	1957	31	7.42	1987	.45	1976	6.6	4.1	1.8	.9	.60	.85	1.25	1.61	1.98	2.37	2.80	3.33	4.01	5.11	6.15
Jun	3.22	2.32	5.12	1913	30	10.16	1986	.00	1990	6.3	4.7	2.2	1.0	.21	.54	1.04	1.52	2.02	2.56	3.20	3.98	5.03	6.76	8.43
Jul	2.62	2.14	3.85	1955	19	7.76	1976	.07	1980	6.4	4.3	1.8	.6	.26	.46	.81	1.18	1.57	2.02	2.54	3.19	4.09	5.57	7.02
Aug	2.23	1.68	3.49	1937	19	10.11	1972	.18	2000	6.5	4.0	1.6	.5	.11	.24	.50	.80	1.14	1.54	2.04	2.68	3.58	5.12	6.67
Sep	2.65	2.32	4.51	1936	21	7.30	1995	.00+	2000	6.3	4.4	2.0	.8	.00	.19	.62	1.03	1.47	1.97	2.56	3.28	4.29	5.96	7.61
Oct	1.73	.93	8.32	1913	1	8.72	1983	.00	1992	4.9	3.0	.8	.3	.01	.05	.18	.38	.63	.96	1.40	1.99	2.87	4.44	6.06
Nov	.86	.64	2.21	1986	4	2.56	1994	.00+	1999	3.8	2.1	.3	.1	.00	.00	.17	.32	.47	.63	.83	1.07	1.40	1.95	2.49
Dec	.79	.60	1.50	1932	23	2.56	1991	.00+	1996	3.9	2.2	.5	.1	.00	.03	.12	.23	.36	.52	.71	.95	1.30	1.89	2.49
Ann	20.48	20.01	8.32	Oct 1913	1	10.16	Jun 1986	.00+	Sep 2000	60.4	37.1	13.0	4.8	13.87	15.13	16.75	17.99	19.09	20.17	21.28	22.52	24.02	26.22	28.13

+ 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: 1913-2001

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

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

Climatography of the United States

No. 20 1971-2000

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Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **TAHOKA, TX**

COOP ID: 418818

Climate Division: **TX 1**

NWS Call Sign:

Elevation: **3,120 Feet**

Lat: **33°10N**

Lon: **101°48W**

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	3.1	1.5	#	#	10.0	1983	21	18.0	1983	10	1983	22	3	1983	1.5	1.3	.4	.1	@	2.2	.6	.3	@
Feb	2.6	1.0	#	#	6.0	1973	22	17.0	1973	7	1988	6	2	1982	1.0	.9	.4	.1	.0	1.0	.3	.1	.0
Mar	.5	.0	#	0	5.5	1972	31	5.5	1972	2	1989	21	#+	1998	.3	.2	@	@	.0	.2	.0	.0	.0
Apr	.3	.0	#	0	3.0	1983	7	8.0	1983	3	1983	8	#+	1996	.2	.1	.1	.0	.0	.1	.1	.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	.1	.0	#	0	3.0	1976	29	3.0	1976	2	1976	29	#+	1993	@	@	@	.0	.0	@	.0	.0	.0
Nov	1.3	.0	#	0	6.5	1976	13	16.5	1980	8	1980	26	1	1980	.4	.3	.2	.1	.0	.6	.2	.2	.0
Dec	1.8	.0	#	#	7.5	1979	14	10.0	1987	6	1979	14	1+	2000	.8	.7	.3	.1	.0	.8	.3	.2	.0
Ann	9.7	2.5	N/A	N/A	10.0	Jan 1983	21	18.0	Jan 1983	10	Jan 1983	22	3	Jan 1983	4.2	3.5	1.4	.4	@	4.9	1.5	.8	@

+ 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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1971-2000**

Station: TAHOKA, TX

COOP ID: 418818

Climate Division: TX 1

NWS Call Sign:

Elevation: 3,120 Feet

Lat: 33° 10N

Lon: 101° 48W

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	4/26	4/22	4/18	4/15	4/12	4/10	4/07	4/03	3/30
32	4/18	4/13	4/09	4/07	4/04	4/01	3/29	3/26	3/21
28	4/08	4/04	4/01	3/29	3/27	3/24	3/22	3/18	3/14
24	4/07	3/30	3/23	3/18	3/13	3/08	3/03	2/24	2/16
20	3/27	3/17	3/10	3/04	2/26	2/20	2/14	2/06	1/27
16	3/08	2/27	2/20	2/15	2/09	2/03	1/28	1/20	1/05
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	10/04	10/10	10/15	10/18	10/22	10/25	10/29	11/02	11/08
32	10/17	10/23	10/28	10/31	11/04	11/08	11/11	11/16	11/22
28	10/30	11/04	11/07	11/11	11/14	11/17	11/20	11/23	11/29
24	11/05	11/11	11/16	11/20	11/24	11/28	12/02	12/07	12/13
20	11/11	11/19	11/25	11/30	12/04	12/09	12/14	12/20	12/28
16	11/25	12/03	12/08	12/14	12/18	12/24	12/29	1/06	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	209	203	199	195	192	188	184	180	174
32	234	227	222	218	213	209	205	200	193
28	251	244	239	235	231	227	223	218	211
24	287	276	268	262	255	249	243	235	224
20	319	306	296	288	281	273	265	256	243
16	>365	346	331	320	312	304	295	286	273

* 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: TAHOKA, TX

COOP ID: 418818

Climate Division: TX 1 NWS Call Sign: Elevation: 3,120 Feet Lat: 33°10N Lon: 101°48W

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	809	594	442	203	55	4	0	1	29	154	491	741	3523
60	654	459	295	107	18	0	0	0	7	66	351	586	2543
57	564	380	214	64	7	0	0	0	2	35	275	494	2035
55	505	329	167	43	4	0	0	0	0	21	229	434	1732
50	363	216	78	12	0	0	0	0	0	5	133	292	1099
32	42	15	0	0	0	0	0	0	0	0	3	15	75

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	256	345	582	820	1129	1321	1462	1412	1171	906	505	297	10206
55	5	15	36	173	419	631	749	699	481	214	40	3	3465
57	2	10	21	135	361	571	687	637	423	166	27	1	3041
60	0	4	8	87	278	481	594	544	338	104	13	0	2451
65	0	0	0	33	161	336	439	390	210	37	3	0	1609
70	0	0	0	9	77	204	289	244	113	8	0	0	944

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	121	204	387	614	910	1103	1231	1176	944	677	314	145	121	325	712	1326	2236	3339	4570	5746	6690	7367	7681	7826
45	54	121	253	468	756	953	1076	1021	794	524	201	70	54	175	428	896	1652	2605	3681	4702	5496	6020	6221	6291
50	18	57	147	331	601	803	921	866	645	381	106	25	18	75	222	553	1154	1957	2878	3744	4389	4770	4876	4901
55	0	20	69	214	447	653	766	711	500	246	47	1	0	20	89	303	750	1403	2169	2880	3380	3626	3673	3674
60	0	2	22	114	303	504	611	556	359	133	11	0	0	2	24	138	441	945	1556	2112	2471	2604	2615	2615
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	127	184	294	406	574	720	808	782	611	430	230	142	127	311	605	1011	1585	2305	3113	3895	4506	4936	5166	5308

(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