

Climatography of the United States

No. 20

1971-2000

Station: ASPERMONT, TX

COOP ID: 410394

Climate Division: TX 2

NWS Call Sign:

Elevation: 1,670 Feet Lat: 33°09N

Lon: 100°14W

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	54.4	27.2	40.8	87	1969	9	47.7	1990	2+	1982	11	30.9	1979	751	0	.0	.0	20.4	2.5	22.0	.0
Feb	60.0	31.6	45.8	92+	1996	23	53.5	1976	-4	1985	1	36.4	1978	538	0	.0	.2	21.5	1.5	14.9	.1
Mar	69.1	38.6	53.9	101	1971	28	60.2	1974	9	1962	1	48.9	1996	353	7	@	.8	28.6	.2	6.4	.0
Apr	78.0	46.8	62.4	103	1972	13	68.6	1978	23	1994	6	55.1	1997	145	66	@	4.6	29.5	.0	1.3	.0
May	86.1	57.3	71.7	113	2000	25	78.7	1996	34+	1979	12	67.2	1997	33	242	2.2	11.8	31.0	.0	.0	.0
Jun	93.3	66.3	79.8	117	1994	28	85.2	1980	45+	1970	5	75.5	1997	1	445	5.7	21.8	30.0	.0	.0	.0
Jul	97.4	70.0	83.7	114	1978	16	88.4	1998	56+	1995	1	78.8	1976	0	579	12.3	28.0	31.0	.0	.0	.0
Aug	95.5	68.7	82.1	112	1964	6	86.2	1999	52	1992	28	75.2	1971	0	530	11.3	25.2	31.0	.0	.0	.0
Sep	87.4	61.0	74.2	109	2000	6	80.3	1998	34+	1983	21	67.0	1974	12	288	2.3	14.2	30.0	.0	.0	.0
Oct	78.0	49.9	64.0	108	1977	1	68.2	1998	19	1993	31	55.3	1976	108	76	.2	3.5	30.6	@	.6	.0
Nov	64.8	36.9	50.9	91	1980	9	58.7	1999	11+	1993	26	42.1	1976	432	8	.0	.1	26.0	.2	8.8	.0
Dec	56.2	28.8	42.5	85+	1995	3	47.3	1977	-10	1989	23	30.2	1983	697	0	.0	.0	22.2	1.6	19.6	.2
Ann	76.7	48.6	62.7	117	Jun 1994	28	88.4	Jul 1998	-10	Dec 1989	23	30.2	Dec 1983	3070	2241	34.0	110.2	331.8	6.0	73.6	.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: 1911-2001

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

014-A

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: ASPERMONT, TX

COOP ID: 410394

Climate Division: TX 2

NWS Call Sign:

Elevation: 1,670 Feet Lat: 33°09N

Lon: 100°14W

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	.90	.71	2.15	1925	18	3.62	1983	.00+	1988	3.6	2.2	.7	.0	.00	.00	.09	.28	.45	.65	.87	1.15	1.53	2.13	2.76
Feb	1.31	.82	3.45	1997	20	5.55	1997	.00+	1983	3.6	2.4	.9	.3	.00	.03	.17	.34	.55	.81	1.13	1.56	2.18	3.25	4.34
Mar	1.32	1.01	6.05	2000	23	6.22	2000	.00+	1989	3.7	2.3	.9	.3	.00	.05	.22	.41	.63	.88	1.20	1.60	2.18	3.15	4.13
Apr	1.65	.98	6.92	1930	28	6.64	1990	.00	1984	4.4	3.3	1.0	.4	.07	.20	.44	.68	.94	1.24	1.59	2.03	2.64	3.64	4.63
May	3.44	3.23	4.20	1914	29	8.70	1982	.75	1996	5.9	4.8	2.5	1.1	.73	1.05	1.55	2.01	2.47	2.96	3.52	4.18	5.06	6.46	7.79
Jun	2.94	2.67	3.51	1963	17	6.50	1989	.05	1994	5.4	4.1	2.3	.9	.28	.49	.89	1.30	1.74	2.25	2.84	3.58	4.60	6.30	7.96
Jul	1.32	1.09	3.54	1961	9	5.32	1975	.00+	1983	4.0	2.5	.8	.3	.00	.14	.37	.58	.80	1.04	1.32	1.65	2.10	2.85	3.58
Aug	2.77	2.34	4.35	1932	30	8.71	1971	.00+	2000	5.4	4.3	1.9	.9	.00	.00	.59	1.13	1.64	2.19	2.80	3.55	4.56	6.14	7.70
Sep	3.04	3.08	5.45	1955	25	7.98	1974	.00+	1983	5.2	4.1	2.2	1.1	.00	.39	.96	1.45	1.94	2.47	3.08	3.79	4.78	6.37	7.91
Oct	2.35	1.30	5.37	1914	11	8.55	1971	.00	1987	4.8	3.5	1.8	.6	.04	.18	.47	.80	1.17	1.61	2.15	2.85	3.83	5.50	7.16
Nov	1.17	.92	2.65	1975	2	3.50	1984	.00+	1999	3.6	2.2	.8	.3	.00	.08	.26	.45	.64	.86	1.13	1.45	1.90	2.66	3.40
Dec	1.03	.79	2.96	1932	22	4.67	1991	.00+	1996	3.2	2.2	.7	.2	.00	.00	.07	.26	.45	.68	.95	1.28	1.75	2.52	3.32
Ann	23.24	23.03	6.92	Apr 1930	28	8.71	Aug 1971	.00+	Aug 2000	52.8	37.9	16.5	6.4	15.80	17.22	19.05	20.44	21.69	22.90	24.16	25.55	27.25	29.72	31.87

+ 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: 1911-2001

(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

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

Station: ASPERMONT, TX

COOP ID: 410394

Climate Division: TX 2

NWS Call Sign:

Elevation: 1,670 Feet

Lat: 33°09N

Lon: 100°14W

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	2.9	.0	#	0	10.0	1983	1	16.0	1983	5	1992	18	#+	1994	.6	.6	.4	.2	.1	.2	.2	.1	.0
Feb	.8	.0	#	0	5.0	1973	23	12.8	1973	#	1994	22	#	1994	.3	.2	.2	.1	.0	.0	.0	.0	.0
Mar	#	.0	0	0	#	1995	3	#+	1995	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	.9	.0	#	0	7.0	2000	8	7.0	2000	6	1976	13	#+	2000	.3	.3	.1	.1	.0	.2	.1	.1	.0
Dec	.7	.0	#	0	4.0	1997	26	4.0+	1997	3	1993	22	#+	1993	.2	.2	.1	.0	.0	@	@	.0	.0
Ann	5.3	.0	N/A	N/A	10.0	Jan 1983	1	16.0	Jan 1983	6	Nov 1976	13	#+	Nov 2000	1.4	1.3	.8	.4	.1	.4	.3	.2	.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:

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

**Climatography
of the United States
No. 20
1971-2000**

Station: ASPERMONT, TX

COOP ID: 410394

Climate Division: TX 2

NWS Call Sign:

Elevation: 1,670 Feet

Lat: 33°09N

Lon: 100°14W

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	4/27	4/21	4/18	4/14	4/11	4/08	4/05	4/01	3/27
32	4/12	4/07	4/04	4/01	3/30	3/27	3/24	3/21	3/17
28	4/11	4/03	3/29	3/24	3/20	3/16	3/11	3/05	2/26
24	3/24	3/15	3/09	3/04	2/27	2/22	2/17	2/11	2/02
20	3/15	3/05	2/26	2/20	2/14	2/09	2/03	1/27	1/17
16	2/27	2/18	2/11	2/04	1/29	1/23	1/16	1/06	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	10/02	10/09	10/14	10/18	10/22	10/26	10/30	11/04	11/11
32	10/24	10/29	11/02	11/05	11/08	11/11	11/15	11/18	11/24
28	10/29	11/04	11/08	11/12	11/15	11/18	11/21	11/25	12/01
24	11/04	11/11	11/16	11/21	11/25	11/29	12/03	12/08	12/15
20	11/10	11/20	11/27	12/03	12/08	12/14	12/20	12/26	1/05
16	11/28	12/06	12/13	12/19	12/24	12/30	1/06	1/17	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	217	209	203	198	193	188	183	177	169
32	245	237	232	227	223	218	214	208	200
28	268	258	251	245	239	234	228	221	211
24	298	288	281	276	270	265	259	252	242
20	340	325	314	305	296	288	278	268	253
16	>365	>365	>365	346	332	322	312	302	288

* 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:
www.ncdc.noaa.gov/oa/climate/normal/usnormals.html

**Climatography
of the United States
No. 20
1971-2000**

Station: ASPERMONT, TX

COOP ID: 410394

Climate Division: TX 2 NWS Call Sign: Elevation: 1,670 Feet Lat: 33°09N Lon: 100°14W

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	751	538	353	145	33	1	0	0	12	108	432	697	3070
60	598	407	219	68	10	0	0	0	2	45	301	543	2193
57	509	332	153	37	4	0	0	0	0	23	232	454	1744
55	452	285	117	23	2	0	0	0	0	13	192	397	1481
50	315	184	50	5	0	0	0	0	0	3	110	263	930
32	31	11	0	0	0	0	0	0	0	0	3	15	60

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	302	398	677	911	1232	1435	1602	1553	1266	990	569	342	11277
55	11	27	81	244	521	745	889	840	576	291	68	10	4303
57	6	18	55	198	461	685	827	778	516	238	48	5	3835
60	1	10	27	139	374	595	734	685	428	167	27	1	3188
65	0	0	7	66	242	445	579	530	288	76	8	0	2241
70	0	0	0	24	138	302	424	379	170	25	1	0	1463

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	156	252	465	694	996	1200	1361	1312	1038	764	365	185	156	408	873	1567	2563	3763	5124	6436	7474	8238	8603	8788
45	75	152	324	548	841	1050	1206	1157	888	611	245	96	75	227	551	1099	1940	2990	4196	5353	6241	6852	7097	7193
50	29	82	208	405	686	900	1051	1002	739	460	147	44	29	111	319	724	1410	2310	3361	4363	5102	5562	5709	5753
55	6	37	111	273	532	750	896	847	591	319	76	14	6	43	154	427	959	1709	2605	3452	4043	4362	4438	4452
60	0	12	49	164	383	600	741	692	445	194	30	1	0	12	61	225	608	1208	1949	2641	3086	3280	3310	3311
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	137	195	317	447	641	781	869	847	677	489	250	152	137	332	649	1096	1737	2518	3387	4234	4911	5400	5650	5802

(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