

Climatology of the United States

No. 20

1971-2000

Station: FERRIS, TX

COOP ID: 413133

Climate Division: TX 5

NWS Call Sign:

Elevation: 470 Feet Lat: 32° 31N Lon: 96° 40W

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	55.5	33.3	44.4	82+	1970	28	50.5	2000	3+	1964	15	34.0	1979	641	3	.0	.0	21.3	.9	13.7	.0
Feb	61.1	37.8	49.5	96	1996	22	57.6	1976	7	1985	2	37.1	1978	445	10	.0	.1	22.9	.8	7.8	.0
Mar	68.5	45.3	56.9	94	1974	31	61.9	1974	14	1980	2	51.8	1996	263	13	.0	.1	29.7	.1	2.5	.0
Apr	76.2	52.5	64.4	100	1963	11	69.3	1972	29	1989	11	59.8	1997	90	70	.0	.7	29.9	.0	.2	.0
May	83.3	61.8	72.6	102	1985	31	78.3	1996	42+	1996	1	68.3	1976	12	245	@	5.3	31.0	.0	.0	.0
Jun	90.8	68.6	79.7	110	1980	27	84.4	1998	53+	1989	15	73.9	1989	0	441	1.5	19.8	30.0	.0	.0	.0
Jul	95.7	72.3	84.0	110	1974	22	90.1	1998	55	1967	15	80.0	1989	0	590	7.8	28.0	31.0	.0	.0	.0
Aug	95.9	71.4	83.7	111	1984	19	87.8+	2000	52	1967	13	78.2	1992	0	578	10.0	27.3	31.0	.0	.0	.0
Sep	89.0	65.5	77.3	111	2000	4	82.3	1998	42	1983	22	69.5	1974	2	369	1.5	17.1	30.0	.0	.0	.0
Oct	79.2	55.1	67.2	97+	1983	4	69.4	2000	31	1980	30	59.4	1976	47	113	.0	3.1	31.0	.0	.1	.0
Nov	66.4	43.9	55.2	89+	1989	14	60.5	1990	16	1976	29	47.8	1976	314	18	.0	.0	27.7	@	3.8	.0
Dec	57.6	36.0	46.8	81+	1977	16	53.8	1984	-1	1989	23	35.3	1983	566	2	.0	.0	24.1	.7	10.8	@
Ann	76.6	53.6	65.1	111+	Sep 2000	4	90.1	Jul 1998	-1	Dec 1989	23	34.0	Jan 1979	2380	2452	20.8	101.5	339.6	2.5	38.9	@

+ 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: 1940-2001

(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: FERRIS, TX

COOP ID: 413133

Climate Division: TX 5

NWS Call Sign:

Elevation: 470 Feet Lat: 32°31N

Lon: 96°40W

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	2.53	1.91	6.15	1990	18	11.79	1990	.02	1986	6.2	4.4	1.6	.7	.16	.31	.62	.96	1.35	1.81	2.36	3.06	4.04	5.71	7.37
Feb	2.81	2.81	3.15	1965	9	7.55	1997	.00	1999	6.0	4.5	2.0	.9	.29	.63	1.10	1.50	1.92	2.36	2.86	3.47	4.27	5.57	6.80
Mar	3.20	3.30	3.28	1977	27	7.52	1979	.26	1972	6.6	5.0	2.3	1.1	.43	.69	1.15	1.60	2.07	2.58	3.18	3.91	4.91	6.53	8.10
Apr	3.74	3.00	8.06	1976	19	14.81	1976	.12	1987	5.9	4.4	2.4	1.3	.42	.70	1.22	1.75	2.30	2.93	3.66	4.57	5.81	7.85	9.85
May	4.89	5.34	4.91	1942	19	9.18	1981	.40	1996	7.8	6.0	3.5	1.6	.97	1.42	2.14	2.79	3.46	4.17	4.98	5.95	7.24	9.30	11.26
Jun	3.68	3.30	5.25	1973	4	11.52	1989	.35	1978	5.9	4.6	2.3	1.3	.48	.78	1.30	1.81	2.35	2.95	3.64	4.49	5.64	7.53	9.36
Jul	2.11	1.70	4.51	1953	19	5.16	1975	.00+	2000	4.3	3.4	1.5	.6	.00	.34	.75	1.09	1.42	1.78	2.18	2.64	3.27	4.28	5.25
Aug	2.27	2.02	3.23	2001	30	10.25	1996	.00+	2000	4.2	3.2	1.6	.9	.00	.00	.18	.51	.91	1.38	1.98	2.75	3.86	5.74	7.65
Sep	2.60	2.19	6.32+	1973	27	11.05	1973	.09	1997	5.5	4.2	1.8	.6	.32	.53	.89	1.26	1.64	2.07	2.57	3.18	4.01	5.38	6.71
Oct	4.42	3.79	5.84	1971	20	12.07	1991	.00	1995	6.1	4.9	2.7	1.3	.22	.62	1.29	1.94	2.64	3.41	4.32	5.45	6.98	9.52	12.00
Nov	3.11	2.72	3.37	1952	24	7.61	2000	.21	1995	6.0	4.6	2.2	1.0	.51	.77	1.23	1.65	2.09	2.57	3.12	3.79	4.69	6.14	7.54
Dec	3.33	2.87	5.20	2001	15	8.81	1991	.18	1981	6.6	4.8	2.1	1.1	.48	.76	1.24	1.70	2.18	2.71	3.32	4.06	5.07	6.71	8.29
Ann	38.69	37.83	8.06	Apr 1976	19	14.81	Apr 1976	.00+	Aug 2000	71.1	54.0	26.0	12.4	26.29	28.65	31.70	34.02	36.10	38.11	40.20	42.52	45.35	49.46	53.04

+ 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: 1940-2001

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

Complete documentation available from:
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Station: FERRIS, TX

COOP ID: 413133

Climate Division: TX 5

NWS Call Sign:

Elevation: 470 Feet

Lat: 32°31N

Lon: 96°40W

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	.8	.0	#	0	4.0	1977	31	5.5	1977	3+	1997	7	#+	1997	.4	.3	@	.0	.0	.4	@	.0	.0
Feb	.8	.0	#	0	4.7	1978	18	7.7	1978	3	1978	18	1	1978	.5	.4	.1	.0	.0	.6	.1	.0	.0
Mar	.2	.0	#	0	3.0	1971	3	3.0	1971	1+	1989	5	#+	1989	.1	@	@	.0	.0	.1	.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	.2	.0	#	0	3.0	1976	13	3.0	1976	2	1976	13	#+	1997	.1	.1	@	.0	.0	.1	.0	.0	.0
Dec	.3	.0	#	0	3.0	1983	16	6.0	1983	3+	2000	27	#+	2000	.2	.1	@	.0	.0	.2	@	.0	.0
Ann	2.3	.0	N/A	N/A	4.7	Feb 1978	18	7.7	Feb 1978	3+	Dec 2000	27	1	Feb 1978	1.3	.9	.1	.0	.0	1.4	.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:

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

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Climate Division: TX 5

NWS Call Sign:

Elevation: 470 Feet

Lat: 32°31N

Lon: 96°40W

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	4/10	4/05	4/01	3/29	3/26	3/23	3/20	3/16	3/11
32	4/02	3/26	3/21	3/16	3/12	3/08	3/04	2/27	2/20
28	3/19	3/11	3/05	2/28	2/23	2/18	2/13	2/07	1/29
24	3/05	2/24	2/18	2/12	2/07	2/02	1/28	1/21	1/12
20	2/26	2/15	2/08	2/01	1/25	1/18	1/07	0/00	0/00
16	2/14	2/03	1/26	1/19	1/10	12/29	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	10/23	10/28	11/02	11/05	11/08	11/12	11/15	11/19	11/25
32	10/29	11/04	11/08	11/12	11/15	11/19	11/22	11/27	12/03
28	11/12	11/18	11/22	11/26	11/29	12/03	12/06	12/11	12/17
24	11/14	11/26	12/04	12/11	12/18	12/24	12/31	1/09	1/20
20	11/30	12/09	12/15	12/21	12/27	1/02	1/11	0/00	0/00
16	12/18	12/27	1/02	1/09	1/16	1/29	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	246	239	235	230	227	223	219	214	207
32	274	265	258	253	247	242	236	229	220
28	308	298	291	285	279	273	267	260	250
24	>365	334	323	315	308	301	294	286	275
20	>365	>365	>365	>365	344	327	315	303	288
16	>365	>365	>365	>365	>365	>365	353	338	323

* 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: 470 Feet Lat: 32°31N Lon: 96°40W

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	641	445	263	90	12	0	0	0	2	47	314	566	2380
60	496	321	145	29	2	0	0	0	0	12	199	422	1626
57	412	255	94	11	0	0	0	0	0	5	144	340	1261
55	359	217	66	5	0	0	0	0	0	2	113	289	1051
50	244	137	23	0	0	0	0	0	0	0	55	184	643
32	22	7	0	0	0	0	0	0	0	0	0	9	38

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	407	496	772	970	1256	1431	1613	1601	1357	1090	694	469	12156
55	31	61	126	286	543	741	900	888	667	379	117	36	4775
57	22	44	91	232	481	681	838	826	607	319	88	24	4253
60	13	26	50	160	390	591	745	733	517	234	53	13	3525
65	3	10	13	70	245	441	590	578	369	113	18	2	2452
70	0	0	1	21	127	293	435	424	232	37	4	0	1574

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	226	336	571	759	1032	1206	1380	1371	1135	859	486	274	226	562	1133	1892	2924	4130	5510	6881	8016	8875	9361	9635
45	133	224	428	610	877	1056	1225	1216	985	704	350	162	133	357	785	1395	2272	3328	4553	5769	6754	7458	7808	7970
50	68	133	291	462	722	906	1070	1061	835	549	231	85	68	201	492	954	1676	2582	3652	4713	5548	6097	6328	6413
55	33	66	175	323	567	756	915	906	685	396	142	40	33	99	274	597	1164	1920	2835	3741	4426	4822	4964	5004
60	7	27	87	195	413	606	760	751	536	258	67	14	7	34	121	316	729	1335	2095	2846	3382	3640	3707	3721
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	152	218	358	492	702	821	907	897	757	560	299	173	152	370	728	1220	1922	2743	3650	4547	5304	5864	6163	6336

(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