

Climatology of the United States

No. 20

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

Station: FAIRFIELD 3 W, TX

1971-2000

COOP ID: 413047

Climate Division: TX 4

NWS Call Sign:

Elevation: 432 Feet

Lat: 31°44N

Lon: 96°12W

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	58.5	36.4	47.5	84	1997	4	54.0	1990	8+	1973	12	37.2	1978	552	3	.0	.0	23.3	.7	12.0	@
Feb	63.3	40.5	51.9	94+	1996	22	59.0	2000	0	1985	2	41.1	1978	378	10	.0	.1	24.2	.6	6.9	@
Mar	70.9	47.9	59.4	93	1991	5	64.9	1974	13	1980	2	53.4	1993	203	29	.0	.1	30.2	@	2.5	.0
Apr	77.6	54.7	66.2	97	1987	18	70.2	1981	27	1987	3	61.3	1997	62	97	.0	1.0	30.0	.0	.4	.0
May	83.8	63.1	73.5	99+	1998	31	79.0	1996	42	1984	9	69.9	1976	6	268	.0	5.3	31.0	.0	.0	.0
Jun	90.3	69.5	79.9	105+	1998	14	85.0	1998	49	1988	11	76.4	1983	0	447	.9	18.7	30.0	.0	.0	.0
Jul	95.0	72.2	83.6	107	1974	22	88.7	1998	56+	1994	28	79.9	1976	0	577	5.9	28.0	31.0	.0	.0	.0
Aug	95.1	71.0	83.1	109+	1984	19	86.5	2000	51+	1992	31	78.7	1992	0	559	7.0	27.6	31.0	.0	.0	.0
Sep	89.0	65.0	77.0	110+	2000	4	81.4	1998	38	1989	25	70.7	1974	2	362	1.5	16.5	30.0	.0	.0	.0
Oct	79.7	55.5	67.6	99	1989	3	71.4	1992	30+	1989	20	58.9	1976	49	129	.0	2.6	31.0	.0	.2	.0
Nov	68.2	45.8	57.0	90	1987	1	64.6	1973	16	1976	29	48.9	1976	268	28	.0	@	28.4	.0	3.4	.0
Dec	60.0	38.0	49.0	88	1977	4	57.6	1984	-2	1989	23	39.2	1983	502	6	.0	.0	25.3	.4	9.3	@
Ann	77.6	55.0	66.3	110+	Sep 2000	4	88.7	Jul 1998	-2	Dec 1989	23	37.2	Jan 1978	2022	2515	15.3	99.9	345.4	1.7	34.7	@

+ 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: 1941-2001

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

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NWS Call Sign:

Elevation: 432 Feet Lat: 31°44N

Lon: 96°12W

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	2.84	2.95	7.90	1999	29	10.25	1999	.08	1971	8.5	5.3	1.7	.7	.37	.60	1.00	1.40	1.81	2.28	2.81	3.47	4.37	5.83	7.25
Feb	3.29	2.79	5.20	1985	23	9.57	1997	.13	1999	7.4	4.7	1.9	.9	.42	.68	1.14	1.60	2.08	2.62	3.24	4.01	5.06	6.77	8.42
Mar	3.29	3.17	3.57	1965	29	6.23	1979	.37	1971	8.2	5.3	2.3	1.1	.81	1.12	1.60	2.02	2.44	2.89	3.39	3.98	4.76	5.98	7.14
Apr	3.38	3.01	5.00	1956	30	9.85	1997	.18	1983	7.3	4.8	2.6	1.2	.46	.74	1.22	1.69	2.19	2.73	3.36	4.13	5.17	6.88	8.52
May	5.04	4.70	4.85	1959	10	10.52	1989	.22	1998	8.9	6.0	3.1	1.8	.87	1.31	2.04	2.73	3.44	4.21	5.09	6.15	7.57	9.87	12.06
Jun	3.79	3.95	3.30	1977	16	6.54	1973	.93	1980	7.7	5.5	2.4	1.2	.86	1.21	1.77	2.27	2.76	3.29	3.88	4.59	5.52	7.00	8.40
Jul	2.14	1.73	2.61	1989	3	6.30	1995	.00	1986	5.0	3.1	1.3	.7	.03	.13	.38	.67	1.01	1.41	1.92	2.57	3.50	5.11	6.72
Aug	2.56	2.06	6.93	1966	12	7.11	1996	.00	1992	5.4	3.7	1.7	.9	.20	.48	.89	1.27	1.66	2.08	2.57	3.17	3.97	5.27	6.52
Sep	3.48	2.69	5.45	1974	13	11.39	1974	.79	1982	6.3	4.5	2.4	1.1	.90	1.23	1.74	2.18	2.62	3.08	3.60	4.20	5.00	6.25	7.42
Oct	4.64	3.75	5.55	1998	6	11.92	1984	.13	1995	7.8	5.2	2.7	1.5	.54	.89	1.54	2.19	2.88	3.65	4.55	5.66	7.18	9.68	12.12
Nov	4.16	4.03	4.32	1994	5	12.26	2000	.68	1999	8.2	5.8	2.6	1.3	.97	1.36	1.97	2.51	3.05	3.63	4.27	5.04	6.05	7.65	9.15
Dec	3.70	3.62	5.50	1991	20	9.15	1991	.56+	1989	8.3	5.1	2.4	1.1	.95	1.30	1.83	2.31	2.78	3.27	3.82	4.48	5.33	6.67	7.93
Ann	42.31	40.77	7.90	Jan 1999	29	12.26	Nov 2000	.00+	Aug 1992	89.0	59.0	27.1	13.5	30.79	33.04	35.91	38.08	40.01	41.87	43.78	45.89	48.45	52.14	55.33

+ 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: 1941-2001

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

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Station: FAIRFIELD 3 W, TX

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Climate Division: TX 4

NWS Call Sign:

Elevation: 432 Feet

Lat: 31°44N

Lon: 96°12W

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	.6	.0	#	0	3.5	1973	11	4.3	1977	4	1977	31	#+	2000	.6	.2	@	.0	.0	.2	.1	.0	.0
Feb	.3	.0	#	0	2.0	1978	17	3.4	1978	1+	1994	11	#+	1994	.5	.1	.0	.0	.0	.2	.0	.0	.0
Mar	.0	.0	#	0	.2	1978	3	.2	1978	#+	1998	9	#+	1998	@	.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	.3	1976	13	.7	1976	0	0	0	0	0	.1	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.1	.0	#	0	2.0	1983	16	2.0	1983	1	1983	16	#+	2000	.1	@	.0	.0	.0	@	.0	.0	.0
Ann	1.0	.0	N/A	N/A	3.5	Jan 1973	11	4.3	Jan 1977	4	Jan 1977	31	#+	Dec 2000	1.3	.3	@	.0	.0	.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:

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NWS Call Sign:

Elevation: 432 Feet

Lat: 31° 44N

Lon: 96° 12W

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	4/16	4/11	4/07	4/04	4/01	3/29	3/26	3/22	3/17
32	4/10	4/02	3/28	3/23	3/19	3/14	3/10	3/04	2/25
28	3/24	3/15	3/09	3/04	2/28	2/23	2/18	2/12	2/04
24	3/07	2/28	2/22	2/17	2/13	2/09	2/04	1/29	1/22
20	2/26	2/15	2/08	2/01	1/26	1/19	1/11	12/29	0/00
16	2/10	1/29	1/19	1/09	12/26	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	10/24	10/29	11/02	11/06	11/09	11/12	11/15	11/19	11/24
32	10/27	11/03	11/08	11/13	11/17	11/21	11/25	12/01	12/08
28	11/06	11/13	11/18	11/23	11/27	12/01	12/05	12/11	12/18
24	11/19	11/27	12/02	12/07	12/11	12/16	12/20	12/26	1/02
20	12/04	12/14	12/20	12/26	1/01	1/08	1/16	1/31	0/00
16	12/18	1/01	1/12	1/25	2/15	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	243	235	230	225	221	216	212	206	199
32	272	262	254	248	242	236	230	223	213
28	302	292	284	278	271	265	259	251	240
24	330	320	312	306	300	295	288	281	271
20	>365	>365	>365	>365	347	334	324	313	299
16	>365	>365	>365	>365	>365	>365	>365	360	336

* 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 4 NWS Call Sign: Elevation: 432 Feet Lat: 31°44N Lon: 96°12W

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	552	378	203	62	6	0	0	0	2	49	268	502	2022
60	411	257	106	17	0	0	0	0	0	13	164	360	1328
57	333	196	64	6	0	0	0	0	0	5	115	282	1001
55	286	161	43	2	0	0	0	0	0	3	87	236	818
50	189	90	12	0	0	0	0	0	0	0	38	143	472
32	13	1	0	0	0	0	0	0	0	0	0	4	18

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	493	558	849	1024	1285	1437	1600	1582	1350	1103	749	530	12560
55	53	73	179	337	572	747	887	869	660	393	147	50	4967
57	38	52	138	280	510	687	825	807	600	333	114	34	4418
60	23	29	87	201	417	597	732	714	510	249	73	18	3650
65	3	10	29	97	268	447	577	559	362	129	28	6	2515
70	0	0	7	32	140	298	422	404	224	49	8	0	1584

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	292	389	619	794	1048	1207	1362	1350	1128	880	538	328	292	681	1300	2094	3142	4349	5711	7061	8189	9069	9607	9935
45	184	269	471	644	893	1057	1207	1195	978	725	396	211	184	453	924	1568	2461	3518	4725	5920	6898	7623	8019	8230
50	103	172	329	497	738	907	1052	1040	828	570	272	120	103	275	604	1101	1839	2746	3798	4838	5666	6236	6508	6628
55	53	95	208	355	583	757	897	885	678	420	166	60	53	148	356	711	1294	2051	2948	3833	4511	4931	5097	5157
60	23	43	111	224	428	607	742	730	528	277	89	28	23	66	177	401	829	1436	2178	2908	3436	3713	3802	3830
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	183	248	396	522	719	837	902	893	758	579	332	208	183	431	827	1349	2068	2905	3807	4700	5458	6037	6369	6577

(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