

# Climatography of the United States No. 20

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

Station: JACKSONVILLE, TX

1971-2000

COOP ID: 414525

Climate Division: TX 4

NWS Call Sign:

Elevation: 560 Feet

Lat: 31° 58N

Lon: 95° 16W

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	57.5	34.8	46.2	83	1971	30	52.1	1971	5	1982	11	35.8	1978	593	0	.0	.0	23.3	.6	11.2	.0
Feb	62.4	38.4	50.4	91	1986	20	57.8	1976	11	1996	4	40.0	1978	414	5	.0	@	24.0	.5	6.7	.0
Mar	69.9	45.2	57.6	90	1974	31	64.0	1974	15	1980	2	51.7	1996	250	18	.0	@	30.2	@	2.1	.0
Apr	76.9	53.4	65.2	95	1987	18	70.9	1981	29+	1987	3	60.0	1997	76	81	.0	.4	30.0	.0	.2	.0
May	83.3	62.5	72.9	99	1998	31	77.4	1996	40	1954	4	69.2	1976	6	251	.0	4.1	31.0	.0	.0	.0
Jun	89.7	69.0	79.4	102+	1998	24	83.6	1998	50	1970	3	76.3	1989	0	430	.5	17.7	30.0	.0	.0	.0
Jul	94.0	72.2	83.1	110	1954	25	88.9	1998	57+	1990	15	79.7	1976	0	561	3.9	27.1	31.0	.0	.0	.0
Aug	93.8	71.0	82.4	107	1954	30	87.0	2000	54	1986	29	77.9	1992	0	540	4.0	26.1	31.0	.0	.0	.0
Sep	87.9	65.6	76.8	109	1985	1	82.1	1998	43	1983	22	70.7	1974	1	353	.5	14.9	30.0	.0	.0	.0
Oct	79.1	55.4	67.3	100	1963	6	70.4	1971	29+	1989	20	59.9	1976	47	116	.0	1.9	31.0	.0	.1	.0
Nov	67.6	44.4	56.0	88+	1955	15	62.6	1973	14	1976	29	49.2	1976	292	21	.0	.0	28.6	.0	3.1	.0
Dec	59.6	37.6	48.6	83	1955	25	56.7	1984	5	1983	26	38.6	1983	515	7	.0	.0	25.2	.7	8.8	.0
Ann	76.8	54.1	65.5	110	Jul 1954	25	88.9	Jul 1998	5+	Dec 1983	26	35.8	Jan 1978	2194	2383	8.9	92.2	345.3	1.8	32.2	.0

+ 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](http://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: 1953-2001

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

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**Elevation: 560 Feet Lat: 31°58N**

**Lon: 95°16W**

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	3.86	3.38	6.00	1999	29	8.89	1990	.12	1971	8.8	6.1	2.5	1.1	.68	1.02	1.58	2.11	2.65	3.23	3.90	4.70	5.78	7.51	9.16
Feb	3.74	3.26	3.95	1997	21	11.39	1997	.18	1996	7.4	5.4	2.3	1.2	.66	.99	1.54	2.05	2.57	3.14	3.78	4.56	5.60	7.28	8.88
Mar	3.66	3.41	3.82	1965	30	7.46	1979	.58	1986	8.0	5.6	2.6	1.1	1.13	1.48	1.99	2.44	2.87	3.32	3.81	4.38	5.13	6.29	7.36
Apr	3.70	3.55	4.22	1982	17	11.41	1991	.54	1984	6.7	4.7	2.6	1.1	.79	1.13	1.67	2.17	2.66	3.19	3.78	4.49	5.43	6.93	8.35
May	4.95	4.85	6.90	1959	3	10.95	1990	.00	1998	8.0	6.0	3.2	1.8	.74	1.40	2.24	2.93	3.61	4.33	5.13	6.08	7.33	9.30	11.16
Jun	4.27	3.71	6.20	1993	20	15.06	1993	.61	1985	7.1	5.6	2.8	1.3	.81	1.19	1.82	2.40	2.98	3.62	4.33	5.20	6.34	8.19	9.94
Jul	2.62	2.78	4.00	1962	27	7.82	1979	.00+	2000	5.8	4.0	1.7	.7	.00	.67	1.21	1.62	1.99	2.38	2.80	3.26	3.89	4.88	5.79
Aug	2.26	1.80	3.65	1994	7	9.11	1996	.00	1999	5.0	3.7	1.6	.8	.06	.21	.51	.83	1.19	1.61	2.11	2.75	3.65	5.15	6.65
Sep	4.09	3.22	5.61	1973	6	12.02	1973	.94	1983	6.7	4.8	2.4	1.4	.91	1.29	1.88	2.43	2.97	3.54	4.19	4.97	5.99	7.61	9.15
Oct	4.61	3.31	7.70	1957	14	16.32	1984	.66	1987	6.7	5.1	3.1	1.7	.69	1.08	1.75	2.39	3.05	3.77	4.61	5.63	7.00	9.23	11.38
Nov	4.45	3.96	8.30	1969	18	12.45	2000	.21	1999	7.5	5.9	3.1	1.6	1.03	1.45	2.10	2.68	3.26	3.88	4.57	5.39	6.47	8.19	9.81
Dec	3.84	3.76	4.40	1992	15	8.87	1991	.58	1981	8.2	5.9	2.5	1.4	.94	1.30	1.86	2.36	2.85	3.37	3.96	4.65	5.56	7.00	8.36
Ann	46.05	44.00	8.30	Nov 1969	18	16.32	Oct 1984	.00+	Jul 2000	85.9	62.8	30.4	15.2	30.60	33.51	37.28	40.18	42.76	45.28	47.90	50.81	54.35	59.54	64.05

+ 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: 1953-2001

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

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**COOP ID: 414525**

**Climate Division: TX 4**

**NWS Call Sign:**

**Elevation: 560 Feet**

**Lat: 31°58N**

**Lon: 95°16W**

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	5.0	1982	13	5.0	1982	3	1978	22	#+	2000	.6	.3	.1	.1	.0	.3	.1	.0	.0
Feb	.2	.0	#	0	1.5	1978	7	3.1	1978	#+	1981	11	#+	1981	.2	.1	.0	.0	.0	.0	.0	.0	.0
Mar	.1	.0	#	0	1.0	1971	3	1.0+	1978	1	1971	3	#	1971	.1	.1	.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	.1	.0	0	0	1.0	1980	26	1.0	1980	0	0	0	0	0	.1	.1	.0	.0	.0	.0	.0	.0	.0
Dec	.0	.0	0	0	.1	1996	17	.1	1996	0	0	0	0	0	.1	.0	.0	.0	.0	.0	.0	.0	.0
Ann	1.2	.0	N/A	N/A	5.0	Jan 1982	13	5.0	Jan 1982	3	Jan 1978	22	#+	Jan 2000	1.1	.6	.1	.1	.0	.3	.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

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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	4/15	4/09	4/05	4/02	3/29	3/26	3/22	3/18	3/13
32	4/05	3/28	3/22	3/17	3/13	3/08	3/03	2/26	2/18
28	3/19	3/11	3/05	3/01	2/24	2/20	2/15	2/09	2/01
24	3/06	2/26	2/19	2/14	2/09	2/04	1/29	1/21	1/07
20	2/21	2/12	2/05	1/29	1/23	1/16	1/07	0/00	0/00
16	2/10	1/30	1/21	1/13	1/03	12/17	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	10/27	11/01	11/05	11/09	11/12	11/15	11/18	11/22	11/27
32	10/27	11/03	11/09	11/13	11/17	11/21	11/26	12/01	12/08
28	11/15	11/22	11/27	12/01	12/05	12/09	12/14	12/19	12/26
24	11/18	11/27	12/03	12/09	12/15	12/20	12/26	1/03	1/18
20	12/05	12/14	12/21	12/28	1/03	1/11	1/22	0/00	0/00
16	12/17	12/30	1/08	1/18	1/29	2/17	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	252	243	237	232	227	222	216	210	201
32	283	271	263	255	249	242	235	226	215
28	311	302	295	289	283	278	272	265	256
24	>365	341	326	317	309	301	293	284	272
20	>365	>365	>365	>365	348	333	323	313	300
16	>365	>365	>365	>365	>365	>365	356	342	328

\* 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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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	593	414	250	76	6	0	0	0	1	47	292	515	2194
60	450	286	138	23	0	0	0	0	0	12	181	372	1462
57	370	218	88	9	0	0	0	0	0	4	129	294	1112
55	321	179	62	4	0	0	0	0	0	2	100	247	915
50	217	101	20	0	0	0	0	0	0	0	45	153	536
32	19	2	0	0	0	0	0	0	0	0	0	5	26

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	457	517	791	995	1268	1420	1584	1563	1342	1092	719	520	12268
55	46	50	140	309	555	730	871	850	652	381	129	49	4762
57	33	33	104	254	493	670	809	788	592	322	98	33	4229
60	20	17	61	178	400	580	716	695	502	236	60	18	3483
65	0	5	18	81	251	430	561	540	353	116	21	7	2383
70	0	0	3	24	125	281	406	386	216	38	5	0	1484

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	288	378	602	781	1042	1199	1350	1333	1119	865	522	333	288	666	1268	2049	3091	4290	5640	6973	8092	8957	9479	9812
45	185	262	456	632	887	1049	1195	1178	969	710	385	220	185	447	903	1535	2422	3471	4666	5844	6813	7523	7908	8128
50	105	159	313	483	732	899	1040	1023	819	555	261	127	105	264	577	1060	1792	2691	3731	4754	5573	6128	6389	6516
55	51	85	194	338	577	749	885	868	669	406	157	64	51	136	330	668	1245	1994	2879	3747	4416	4822	4979	5043
60	20	34	99	206	423	599	730	713	519	262	84	26	20	54	153	359	782	1381	2111	2824	3343	3605	3689	3715
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	180	238	379	509	715	831	906	895	762	568	324	204	180	418	797	1306	2021	2852	3758	4653	5415	5983	6307	6511

(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](http://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](http://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"><li>a. Temperature/ Precipitation Tables<ol style="list-style-type: none"><li>1. 1971-2000 Monthly Normals</li><li>2. Cooperative Summary of the Day</li><li>3. National Weather Service station records</li><li>4. 1971-2000 serially complete daily data</li></ol></li><li>b. Degree Day Table<ol style="list-style-type: none"><li>1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals</li><li>2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data</li></ol></li></ol> | <ol style="list-style-type: none"><li>c. Snow Tables<ol style="list-style-type: none"><li>1. Snow Climatology</li><li>2. Cooperative Summary of the Day</li></ol></li><li>d. Freeze Data Table<br/>1971-2000 serially complete daily data</li></ol> |
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## References

U.S. Climate Normals 1971-2000, [www.ncdc.noaa.gov/normal.html](http://www.ncdc.noaa.gov/normal.html)  
U.S. Climate Normals 1971-2000-Products Clim20, [www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html)  
Snow Climatology Project Description, [www.ncdc.noaa.gov/oa/climate/monitoring/snowclim/mainpage.html](http://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](http://www1.ncdc.noaa.gov/pub/data/special/serialcomplete_jam_0900.pdf)