U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Service

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: JAYTON, TX **COOP ID: 414570**

Climate Division: TX 2 **NWS Call Sign:** **Elevation: 2,010 Feet** **Lat: 33˚15N** **Lon: 100˚34W**

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	53.8	24.9	39.4	87	2000	20	46.6	2000	-2	1966	22	29.9	1979	794	0	.0	.0	20.0	2.8	24.0	.0
Feb	59.2	29.5	44.4	91	1996	23	53.2	1999	-6	1985	3	33.5	1978	579	0	.0	@	21.1	1.7	17.2	.1
Mar	67.9	36.6	52.3	99	1971	28	58.7	1974	6+	1980	3	47.7	1996	398	2	.0	.6	28.1	.3	8.6	.0
Apr	77.0	45.7	61.4	102	1972	13	67.0	1978	24+	1997	13	54.5	1997	165	55	@	3.9	29.3	.0	1.8	.0
May	84.4	56.2	70.3	111	2000	25	77.5	1996	35	1970	2	65.8	1976	40	205	1.7	9.2	31.0	.0	.0	.0
Jun	91.3	65.1	78.2	116	1994	28	84.4	1998	45	1964	1	73.7	1983	2	398	3.9	18.8	30.0	.0	.0	.0
Jul	95.7	69.1	82.4	110	1980	4	87.9	1998	55+	1990	15	77.2	1976	0	540	8.5	26.3	31.0	.0	.0	.0
Aug	93.8	67.7	80.8	110	1964	7	86.2	1999	54+	1992	29	73.7	1971	1	489	5.9	24.0	31.0	.0	.0	.0
Sep	86.4	60.2	73.3	108+	2000	12	80.3	1998	34	1989	25	66.5	1974	18	266	1.9	12.8	30.0	.0	.0	.0
Oct	77.1	48.7	62.9	105	1977	1	67.6	1998	25+	1997	28	54.8	1976	124	58	.2	2.7	30.5	@	.7	.0
Nov	64.4	35.7	50.1	90	1996	21	57.3	1999	10+	1993	27	42.7	1972	453	4	.0	@	25.9	.3	10.2	.0
Dec	55.6	27.0	41.3	86	1995	3	45.0	1980	-5	1989	24	29.7	1983	736	0	.0	.0	21.5	1.8	22.4	.2
Ann	75.6	47.2	61.4	116	Jun 1994	28	87.9	Jul 1998	-6	Feb 1985	3	29.7	Dec 1983	3310	2017	22.1	98.3	329.4	6.9	84.9	.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/normals/usnormals.html

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1910-2001

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

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Service

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: JAYTON, TX **COOP ID: 414570**

Climate Division: TX 2 **NWS Call Sign:** **Elevation: 2,010 Feet** **Lat: 33˚15N** **Lon: 100˚34W**

Precipitation (inches)

Precipitation Totals

Month	Means/ Medians(1) Mean	Means/ Medians(1) Median	Extremes Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year
Jan	.91	.65	1.70	1990	19	3.23	1973	.00+	1986
Feb	1.14	.76	2.05	1990	28	4.40	1997	.00+	1999
Mar	1.12	.64	4.70	2000	22	5.57	2000	.00+	1997
Apr	1.73	1.34	2.35	1990	19	5.30	1976	.00	1991
May	3.35	3.20	2.55	1995	16	10.35	1995	.42	1976
Jun	3.21	2.16	6.50	1991	3	9.25	1991	.00	1994
Jul	1.59	1.17	2.95	1997	6	6.14	1976	.00+	2000
Aug	2.81	2.33	3.75	1972	14	12.62	1972	.00	2000
Sep	3.04	2.72	3.73	1962	6	8.17	1980	.00+	2000
Oct	2.17	1.38	3.75	1983	20	8.92	1983	.00+	1992
Nov	.97	.78	1.90	2001	16	3.10	2000	.00+	1999
Dec	.90	.45	1.90	1997	20	4.30	1991	.00+	2000
Ann	22.94	22.19	6.50	Jun 1991	3	12.62	Aug 1972	.00+	Dec 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	2.4	2.3	.7	.1
Feb	2.6	2.4	.6	.3
Mar	2.4	2.2	.7	.2
Apr	3.5	3.5	1.3	.4
May	5.2	4.9	2.2	1.0
Jun	4.8	4.4	2.1	.9
Jul	3.2	3.1	1.3	.4
Aug	4.7	4.4	1.9	.9
Sep	4.6	4.2	2.4	1.0
Oct	3.7	3.5	1.5	.6
Nov	2.2	2.0	.7	.2
Dec	2.0	1.8	.6	.3
Ann	41.3	38.7	16.0	6.3

Precipitation Probabilities (1)

Probability that the monthly/annual precipitation will be equal to or less than the indicated amount

Monthly/Annual Precipitation vs Probability Levels
These values were determined from the incomplete gamma distribution

Month	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	.00	.00	.15	.29	.45	.63	.85	1.13	1.50	2.15	2.78
Feb	.00	.00	.19	.46	.68	.92	1.18	1.48	1.89	2.53	3.18
Mar	.00	.00	.13	.29	.47	.70	.98	1.35	1.87	2.77	3.68
Apr	.12	.30	.58	.83	1.10	1.39	1.72	2.13	2.69	3.59	4.46
May	.76	1.08	1.57	2.01	2.45	2.91	3.44	4.06	4.89	6.20	7.43
Jun	.23	.56	1.07	1.54	2.04	2.58	3.20	3.96	4.99	6.67	8.29
Jul	.00	.11	.35	.60	.86	1.16	1.52	1.96	2.58	3.61	4.63
Aug	.11	.35	.75	1.16	1.61	2.11	2.70	3.45	4.47	6.17	7.83
Sep	.00	.00	.80	1.33	1.85	2.42	3.06	3.86	4.88	6.59	8.24
Oct	.00	.00	.27	.64	1.04	1.49	2.03	2.71	3.66	5.21	6.77
Nov	.00	.09	.26	.42	.58	.75	.96	1.21	1.55	2.11	2.65
Dec	.00	.00	.00	.00	.31	.56	.83	1.17	1.62	2.35	3.05
Ann	14.22	15.82	17.92	19.54	21.00	22.43	23.93	25.60	27.65	30.67	33.32

\+ 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: 1910-2001
(3) Derived from 1971-2000 serially complete daily data

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

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Services

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: JAYTON, TX **COOP ID: 414570**

Climate Division: TX 2 **NWS Call Sign:** **Elevation: 2,010 Feet** **Lat: 33°15N** **Lon: 100°34W**

Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	.9	.0	#	0
Feb	.7	.0	#	0
Mar	#	.0	0	0
Apr	#	.0	0	0
May	.0	.0	0	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	.0	.0	0	0
Nov	#	.0	#	0
Dec	#	.0	#	0
Ann	1.6	.0	N/A	N/A

Extremes (2)

Month	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year
Jan	3.0	1994	31	5.0	1994	2	1981	18	#	1981
Feb	3.0	1987	20	5.0	1987	#+	1996	3	#+	1996
Mar	#	1978	4	#	1978	0	0	0	0	0
Apr	#	1983	8	#	1983	0	0	0	0	0
May	.0	0	0	.0	0	0	0	0	0	0
Jun	.0	0	0	.0	0	0	0	0	0	0
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	.0	0	0	.0	0	0	0	0	0	0
Oct	.0	0	0	.0	0	0	0	0	0	0
Nov	#	1982	25	#+	1982	#	1972	30	#	1972
Dec	#	1999	9	#+	1999	1	2000	26	#+	2000
Ann	3.0+	Jan 1994	31	5.0+	Jan 1994	2	Jan 1981	18	#+	Dec 2000

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.5	.5	.1	.0	.0
Feb	.2	.2	.1	.0	.0
Mar	.0	.0	.0	.0	.0
Apr	.0	.0	.0	.0	.0
May	.0	.0	.0	.0	.0
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.0	.0	.0	.0	.0
Oct	.0	.0	.0	.0	.0
Nov	.0	.0	.0	.0	.0
Dec	.0	.0	.0	.0	.0
Ann	.7	.7	.2	.0	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.0	.0	.0	.0
Feb	.0	.0	.0	.0
Mar	.0	.0	.0	.0
Apr	.0	.0	.0	.0
May	.0	.0	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.0	.0	.0	.0
Nov	.0	.0	.0	.0
Dec	.0	.0	.0	.0
Ann	.0	.0	.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/normals/usnormals.html

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Service

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: JAYTON, TX **COOP ID: 414570**

Climate Division: TX 2 **NWS Call Sign:** **Elevation: 2,010 Feet** **Lat: 33˚15N** **Lon: 100˚34W**

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	4/22	4/18	4/15	4/12	4/10	4/08	4/06	4/03	3/30
32	4/15	4/11	4/08	4/05	4/02	3/31	3/28	3/25	3/20
28	4/08	4/02	3/29	3/26	3/22	3/19	3/15	3/11	3/05
24	4/01	3/23	3/17	3/12	3/07	3/02	2/24	2/18	2/10
20	3/23	3/12	3/04	2/26	2/20	2/13	2/07	1/30	1/19
16	2/27	2/17	2/10	2/04	1/29	1/23	1/16	1/08	12/23

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	10/03	10/10	10/14	10/18	10/22	10/26	10/30	11/03	11/10
32	10/22	10/27	10/31	11/04	11/07	11/10	11/14	11/18	11/23
28	10/29	11/04	11/08	11/11	11/15	11/18	11/21	11/25	12/01
24	11/04	11/11	11/16	11/20	11/24	11/28	12/02	12/07	12/14
20	11/06	11/17	11/24	11/30	12/06	12/12	12/18	12/26	1/05
16	12/01	12/09	12/14	12/19	12/24	12/29	1/03	1/10	1/23

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	214	207	202	198	194	190	186	181	174
32	238	231	226	222	218	214	210	205	199
28	260	252	246	241	237	232	227	222	214
24	292	282	274	268	262	256	249	242	231
20	330	314	304	295	288	280	272	262	249
16	>365	>365	350	338	329	321	313	304	292

***** 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/normals/usnormals.html

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Service

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: JAYTON, TX **COOP ID: 414570**

Climate Division: TX 2 **NWS Call Sign:** **Elevation: 2,010 Feet** **Lat: 33˚15N** **Lon: 100˚34W**

Degree Days to Selected Base Temperatures (˚F)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	794	579	398	165	40	2	0	1	18	124	453	736	3310
60	640	448	256	82	12	0	0	0	4	50	318	582	2392
57	549	371	182	47	5	0	0	0	0	26	245	492	1917
55	492	322	140	30	2	0	0	0	0	15	202	435	1638
50	351	215	63	8	0	0	0	0	0	3	115	297	1052
32	40	18	0	0	0	0	0	0	0	0	3	23	84

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	269	363	627	881	1187	1386	1563	1511	1238	958	544	310	10837
55	8	23	54	220	476	696	850	798	548	259	53	9	3994
57	3	15	34	177	417	636	788	736	488	208	36	4	3542
60	0	9	15	122	331	546	695	643	401	140	19	1	2922
65	0	0	2	55	205	398	540	489	266	58	4	0	2017
70	0	0	0	19	108	259	385	340	155	16	0	0	1282

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	131	224	416	662	950	1154	1326	1276	1015	727	344	160	131	355	771	1433	2383	3537	4863	6139	7154	7881	8225	8385
45	64	132	284	516	795	1004	1171	1121	865	575	227	81	64	196	480	996	1791	2795	3966	5087	5952	6527	6754	6835
50	23	71	172	375	642	854	1016	966	716	427	131	35	23	94	266	641	1283	2137	3153	4119	4835	5262	5393	5428
55	1	32	91	247	488	704	861	811	566	286	66	8	1	33	124	371	859	1563	2424	3235	3801	4087	4153	4161
60	0	8	37	144	343	556	706	656	425	164	23	1	0	8	45	189	532	1088	1794	2450	2875	3039	3062	3063
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	130	187	297	432	607	760	864	833	656	464	246	146	130	317	614	1046	1653	2413	3277	4110	4766	5230	5476	5622

(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.
Compete documentation for the 1971-2000 Normals is available on the internet from:
www.ncdc.noaa.gov/oa/climate/normals/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 are 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.

a. Temperature/ Precipitation Tables
   1. 1971-2000 Monthly Normals
   2. Cooperative Summary of the Day
   3. National Weather Service station records
   4. 1971-2000 serially complete daily data

b. Degree Day Table
   1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals
   2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data

c. Snow Tables
   1. Snow Climatology
   2. Cooperative Summary of the Day

d. Freeze Data Table
   1971-2000 serially complete daily data

References

U.S. Climate Normals 1971-2000, www.ncdc.noaa.gov/normals.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normals/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