

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: EVANT 1 SSW, TX

1971-2000

COOP ID: 413005

Climate Division: TX 5

NWS Call Sign:

Elevation: 1,245 Feet Lat: 31° 28N

Lon: 98° 10W

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	56.5	32.5	44.5	88	1969	8	53.2	1990	1	1982	11	34.8	1979	639	0	.0	.0	22.6	.9	13.8	.0
Feb	61.2	36.7	49.0	94	1986	20	56.5	1999	3+	1985	2	38.7	1978	457	7	.0	.1	23.8	.7	7.8	.0
Mar	68.6	43.6	56.1	99	1974	31	62.0	1974	11	1980	2	46.1	1996	296	19	.0	.3	29.9	.1	3.3	.0
Apr	75.5	51.1	63.3	99	1963	10	67.9	1972	26	1973	10	58.4	1973	111	61	.0	1.3	29.9	.0	.5	.0
May	82.0	59.8	70.9	102+	1984	6	76.9	1998	39	1981	11	66.6	1981	20	203	.2	5.2	31.0	.0	.0	.0
Jun	88.8	67.2	78.0	107	1980	27	82.3	1990	48	1964	1	74.1	1996	0	389	.8	17.0	30.0	.0	.0	.0
Jul	93.3	70.4	81.9	107	1964	25	85.6	1978	55	1968	6	77.9	1976	0	523	4.4	27.0	31.0	.0	.0	.0
Aug	93.5	70.0	81.8	111+	1969	14	86.1+	2000	54	1961	24	76.5	1971	0	519	4.1	26.4	31.0	.0	.0	.0
Sep	87.8	63.8	75.8	110	2000	5	81.7	1977	38	1983	21	67.9	1974	5	328	.8	15.4	30.0	.0	.0	.0
Oct	78.6	54.3	66.5	101	1979	3	70.6	1979	25	1993	30	58.3	1976	65	109	@	2.8	30.9	.0	.1	.0
Nov	66.6	42.8	54.7	92	1980	9	61.4	1999	16+	1979	30	45.3	1976	325	16	.0	.1	27.6	@	4.1	.0
Dec	58.7	35.0	46.9	85	1977	4	51.0	1971	-5	1989	23	35.1	1983	563	1	.0	.0	24.7	.8	10.9	@
Ann	75.9	52.3	64.1	111+	Aug 1969	14	86.1+	Aug 2000	-5	Dec 1989	23	34.8	Jan 1979	2481	2175	10.3	95.6	342.4	2.5	40.5	@

+ 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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Station: EVANT 1 SSW, TX

COOP ID: 413005

Climate Division: TX 5

NWS Call Sign:

Elevation: 1,245 Feet Lat: 31°28N

Lon: 98°10W

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	1.50	1.22	2.70	1968	20	3.30	1992	.00	1986	4.1	3.3	.8	.3	.07	.21	.43	.65	.89	1.15	1.46	1.84	2.37	3.23	4.08
Feb	2.19	1.88	2.42	1992	24	9.15	1997	.00	1996	4.0	3.4	1.7	.7	.13	.34	.68	1.00	1.34	1.72	2.16	2.70	3.43	4.64	5.81
Mar	2.32	2.23	3.40	1998	15	5.24	1979	.00	1971	4.6	3.8	1.4	.6	.20	.45	.83	1.17	1.52	1.90	2.33	2.86	3.57	4.71	5.81
Apr	2.68	2.39	4.40	1990	26	7.41	1990	.30+	1988	4.6	3.9	1.9	.8	.36	.58	.96	1.33	1.73	2.16	2.66	3.27	4.10	5.46	6.77
May	3.99	3.92	3.58	1965	11	10.76	1994	.95	1998	6.5	5.7	2.9	1.5	1.01	1.39	1.97	2.48	2.99	3.52	4.12	4.83	5.75	7.21	8.58
Jun	3.86	3.43	5.11	1985	5	9.54	1987	.25	1994	4.9	4.3	2.2	1.1	.62	.95	1.51	2.04	2.59	3.19	3.88	4.72	5.84	7.66	9.41
Jul	2.27	1.76	4.60	1976	4	7.88	1971	.00	1993	3.4	2.6	1.2	.6	.05	.20	.49	.81	1.17	1.59	2.11	2.76	3.68	5.23	6.77
Aug	2.07	1.83	4.15	2001	28	6.50	1974	.00+	2000	4.1	3.1	1.4	.5	.00	.16	.50	.83	1.17	1.56	2.01	2.57	3.34	4.63	5.88
Sep	2.49	2.53	4.85	1970	1	7.67	1980	.00	1977	4.2	3.8	1.9	.8	.19	.45	.85	1.21	1.59	2.01	2.48	3.07	3.86	5.14	6.37
Oct	3.01	3.15	4.80	1985	18	7.23	1986	.10	1995	4.9	4.4	2.4	.9	.27	.48	.89	1.31	1.76	2.28	2.90	3.67	4.73	6.50	8.24
Nov	2.23	1.95	3.93	1965	9	6.14	2000	.00	1979	4.0	3.3	1.9	.6	.20	.45	.82	1.15	1.48	1.84	2.26	2.76	3.43	4.52	5.56
Dec	2.07	1.62	8.00	1991	20	8.31	1991	.12	1981	4.0	3.2	1.4	.6	.16	.29	.56	.84	1.16	1.53	1.96	2.52	3.28	4.57	5.85
Ann	30.68	30.26	8.00	Dec 1991	20	10.76	May 1994	.00+	Aug 2000	53.3	44.8	21.1	9.0	19.44	21.52	24.24	26.34	28.22	30.07	31.99	34.14	36.77	40.63	44.01

+ 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

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

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Station: EVANT 1 SSW, TX

COOP ID: 413005

Climate Division: TX 5

NWS Call Sign:

Elevation: 1,245 Feet

Lat: 31°28N

Lon: 98°10W

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	.4	.0	#	0	3.0	1975	12	3.0	1975	7	1982	13	2	1985	.1	.1	.1	.0	.0	@	@	.0	.0
Feb	.2	.0	#	0	2.0	1973	17	3.0	1973	2	1988	11	1	1978	.2	.2	.0	.0	.0	.1	.0	.0	.0
Mar	#	.0	#	0	#	1994	10	#+	1994	#+	1994	10	#+	1994	.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	#	.0	#	0	#	1989	30	#+	1989	4	1976	14	#+	1980	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.0	.0	#	0	.2	2000	27	.2	2000	1	1978	31	#+	1996	.1	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.6	.0	N/A	N/A	3.0	Jan 1975	12	3.0+	Jan 1975	7	Jan 1982	13	2	Jan 1985	.4	.3	.1	.0	.0	.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/normals/usnormals.html

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No. 20 1971-2000

Station: EVANT 1 SSW, TX

COOP ID: 413005

Climate Division: TX 5

NWS Call Sign:

Elevation: 1,245 Feet

Lat: 31°28N

Lon: 98°10W

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	4/10	4/07	4/03	3/31	3/28	3/25	3/21	3/16
32	4/12	4/03	3/28	3/22	3/17	3/12	3/06	2/28	2/19
28	3/29	3/19	3/12	3/05	2/28	2/22	2/15	2/08	1/29
24	3/12	3/03	2/24	2/18	2/13	2/07	2/01	1/25	1/16
20	3/02	2/19	2/11	2/04	1/29	1/21	1/12	12/26	0/00
16	2/14	2/03	1/25	1/17	1/08	12/25	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	10/28	10/31	11/03	11/06	11/08	11/11	11/15	11/19
32	10/27	11/03	11/08	11/12	11/16	11/20	11/24	11/29	12/06
28	11/05	11/13	11/19	11/24	11/28	12/03	12/08	12/14	12/22
24	11/12	11/23	11/30	12/07	12/13	12/19	12/26	1/02	1/13
20	12/02	12/11	12/17	12/23	12/28	1/03	1/10	1/24	0/00
16	12/11	12/21	12/30	1/07	1/16	2/01	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	235	229	225	222	219	216	212	208	203
32	276	265	257	250	243	237	230	222	211
28	311	298	289	281	273	266	257	248	235
24	339	322	312	305	299	292	286	278	267
20	>365	>365	>365	>365	340	325	313	301	286
16	>365	>365	>365	>365	>365	365	346	334	320

* 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

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

Station: EVANT 1 SSW, TX

COOP ID: 413005

Climate Division: TX 5 NWS Call Sign: Elevation: 1,245 Feet Lat: 31°28N Lon: 98°10W

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	639	457	296	111	20	0	0	0	5	65	325	563	2481
60	495	329	180	43	3	0	0	0	0	21	207	419	1697
57	412	261	126	20	1	0	0	0	0	9	150	336	1315
55	360	220	96	11	0	0	0	0	0	4	117	284	1092
50	246	137	40	2	0	0	0	0	0	1	56	177	659
32	24	6	0	0	0	0	0	0	0	0	0	7	37

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	412	480	747	939	1206	1379	1546	1542	1313	1067	681	468	11780
55	34	50	130	260	493	689	833	829	623	359	108	32	4440
57	24	35	98	209	432	629	771	767	563	301	81	21	3931
60	14	20	59	143	342	539	678	674	473	220	48	11	3221
65	0	7	19	61	203	389	523	519	328	109	16	1	2175
70	0	0	5	17	98	245	368	365	197	40	3	0	1338

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	252	349	567	753	1008	1170	1330	1318	1105	852	489	287	252	601	1168	1921	2929	4099	5429	6747	7852	8704	9193	9480
45	156	233	423	604	853	1020	1175	1163	955	698	350	180	156	389	812	1416	2269	3289	4464	5627	6582	7280	7630	7810
50	81	141	289	456	698	870	1020	1008	805	544	231	96	81	222	511	967	1665	2535	3555	4563	5368	5912	6143	6239
55	37	70	173	319	543	720	865	853	655	394	135	41	37	107	280	599	1142	1862	2727	3580	4235	4629	4764	4805
60	9	27	85	188	390	570	710	698	505	258	65	10	9	36	121	309	699	1269	1979	2677	3182	3440	3505	3515
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	171	231	362	484	683	805	890	874	739	553	304	187	171	402	764	1248	1931	2736	3626	4500	5239	5792	6096	6283

(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