

# Climatology of the United States

No. 20

1971-2000

Station: MINEOLA 8 ENE, TX

COOP ID: 415956

Climate Division: TX 4

NWS Call Sign:

Elevation: 385 Feet

Lat: 32°43N

Lon: 95°22W

## 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	54.3	31.2	42.8	84	1971	30	49.1	1990	3	1982	14	32.3	1978	690	0	.0	.0	20.2	1.4	18.7	.0
Feb	60.0	35.0	47.5	93	1996	22	54.4	2000	9	1981	11	36.1	1978	494	4	.0	.1	22.2	.7	12.5	.0
Mar	67.5	42.3	54.9	90+	1995	23	60.0	1974	15+	1996	9	49.8	1978	321	9	.0	.1	29.4	@	6.1	.0
Apr	74.8	49.8	62.3	93	1987	20	67.6	1981	24+	1987	4	57.5	1983	129	48	.0	.3	29.9	.0	1.6	.0
May	81.9	60.4	71.2	99+	1996	29	81.1	1996	38+	1997	13	67.0	1976	29	219	.0	2.5	31.0	.0	.0	.0
Jun	88.7	67.9	78.3	106	1996	19	83.3	1998	45	1988	12	74.8	1989	0	399	.4	15.5	30.0	.0	.0	.0
Jul	93.1	70.8	82.0	107	1978	16	88.0	1998	51+	1967	15	78.6	1990	0	526	3.5	25.2	31.0	.0	.0	.0
Aug	93.5	69.0	81.3	108+	1995	22	85.8	1995	49+	1967	14	75.7	1992	0	504	4.7	25.5	31.0	.0	.0	.0
Sep	87.3	62.7	75.0	110+	2000	5	80.4	1998	35+	1989	25	67.7	1974	8	308	.7	13.8	30.0	.0	.0	.0
Oct	77.7	51.4	64.6	95+	1991	12	67.5	1971	22	1993	31	56.8	1976	87	73	.0	2.0	30.9	.0	.7	.0
Nov	65.4	41.4	53.4	86+	1978	4	57.8	1994	9	1976	29	46.2	1976	357	10	.0	.0	27.6	.1	7.0	.0
Dec	56.9	33.7	45.3	82	1982	2	53.9	1984	1	1983	30	34.9	1983	611	1	.0	.0	22.7	.8	15.9	.0
Ann	75.1	51.3	63.2	110+	Sep 2000	5	88.0	Jul 1998	1	Dec 1983	30	32.3	Jan 1978	2726	2101	9.3	85.0	335.9	3.0	62.5	.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: 1966-2000

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

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

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**COOP ID: 415956**

**Climate Division: TX 4**

**NWS Call Sign:**

**Elevation: 385 Feet**

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**Lon: 95°22W**

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	3.33	2.89	3.85	1990	17	9.87	1990	.20	1986	8.0	5.9	2.5	.7	.48	.75	1.23	1.70	2.18	2.71	3.32	4.07	5.08	6.73	8.32
Feb	3.43	3.59	2.22	1998	11	8.73	1997	.21	1999	7.2	5.4	2.4	1.2	.64	.94	1.44	1.91	2.38	2.89	3.47	4.18	5.11	6.61	8.04
Mar	4.05	3.82	3.35	1973	24	8.81	1990	.74	1971	8.6	5.9	2.8	1.3	1.44	1.82	2.38	2.84	3.28	3.74	4.23	4.81	5.55	6.68	7.73
Apr	3.98	4.23	3.31	1977	16	9.83	1973	.18	1987	7.8	5.5	2.6	1.2	.74	1.09	1.67	2.21	2.76	3.36	4.03	4.84	5.93	7.67	9.33
May	4.71	4.47	4.85	1979	4	11.44	1989	.27	1977	9.2	6.8	3.0	1.5	.95	1.37	2.07	2.70	3.34	4.03	4.80	5.74	6.97	8.95	10.83
Jun	3.99	3.82	4.65	1974	8	8.14	1974	.26	1978	7.4	5.4	2.5	1.3	.81	1.17	1.76	2.29	2.83	3.41	4.07	4.85	5.90	7.56	9.14
Jul	2.92	2.32	3.95	1978	23	7.64	1994	.28	1998	5.9	4.2	2.0	.9	.42	.66	1.08	1.49	1.91	2.38	2.91	3.57	4.46	5.90	7.29
Aug	2.23	2.06	3.62	1997	7	7.06	1977	.13	2000	5.0	3.4	1.4	.5	.24	.40	.71	1.02	1.36	1.73	2.17	2.72	3.47	4.71	5.92
Sep	3.67	3.36	4.10	1998	16	8.53	1979	.61	1989	6.4	5.0	2.1	1.1	.58	.89	1.43	1.93	2.46	3.03	3.69	4.49	5.56	7.30	8.97
Oct	4.99	4.86	5.05	1993	20	11.28	1981	.38	1995	7.4	5.6	3.0	1.8	.84	1.28	2.01	2.69	3.39	4.16	5.03	6.09	7.50	9.79	11.98
Nov	4.50	4.32	5.01	1994	5	9.45	2000	.41	1995	8.0	5.7	3.0	1.6	.89	1.29	1.95	2.56	3.17	3.83	4.58	5.48	6.67	8.58	10.39
Dec	4.08	3.47	6.42	1982	3	10.33	1987	.19	1981	8.0	5.3	3.0	1.4	.87	1.25	1.85	2.39	2.93	3.52	4.17	4.96	5.99	7.65	9.21
Ann	45.88	45.68	6.42	Dec 1982	3	11.44	May 1989	.13	Aug 2000	88.9	64.1	30.3	14.5	32.12	34.77	38.17	40.76	43.06	45.29	47.60	50.15	53.25	57.75	61.65

+ 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: 1966-2000

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

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**NWS Call Sign:**

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**Lat: 32°43N**

**Lon: 95°22W**

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	1.1	.0	#	0	6.0	1977	31	6.0	1977	6	1977	31	#+	2000	.5	.3	.2	.1	.0	.3	.2	@	.0
Feb	.3	.0	#	0	2.7	1988	12	5.2	1988	1	1978	9	#+	1996	.2	.2	.0	.0	.0	@	.0	.0	.0
Mar	#	.0	#	0	#	1989	5	#+	1989	#	1989	5	#	1989	.0	.0	.0	.0	.0	.0	.0	.0	.0
Apr	#	.0	0	0	#	1987	3	#	1987	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	1.0	1976	13	1.0	1976	1	1976	13	#+	1997	.1	.1	.0	.0	.0	@	.0	.0	.0
Dec	.4	.0	#	0	9.0	1983	16	9.0	1983	9	1983	16	#+	1998	.1	.1	.1	.1	.0	@	@	@	.0
Ann	1.9	.0	N/A	N/A	9.0	Dec 1983	16	9.0	Dec 1983	9	Dec 1983	16	#+	Jan 2000	.9	.7	.3	.2	.0	.3	.2	@	.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	4/22	4/17	4/14	4/11	4/09	4/06	4/03	3/31	3/27
32	4/19	4/13	4/09	4/05	4/01	3/29	3/25	3/21	3/15
28	4/05	3/28	3/23	3/19	3/14	3/10	3/06	2/28	2/21
24	3/19	3/11	3/04	2/27	2/22	2/17	2/12	2/05	1/28
20	3/04	2/23	2/17	2/11	2/06	2/01	1/26	1/19	1/08
16	2/25	2/15	2/08	2/01	1/25	1/18	1/08	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	10/06	10/12	10/16	10/20	10/23	10/27	10/30	11/04	11/10
32	10/20	10/27	10/31	11/04	11/07	11/11	11/15	11/19	11/25
28	11/01	11/07	11/10	11/14	11/17	11/20	11/24	11/28	12/03
24	11/09	11/18	11/24	11/29	12/04	12/09	12/15	12/21	12/29
20	11/19	11/29	12/07	12/13	12/19	12/25	12/31	1/08	1/21
16	12/08	12/18	12/25	12/31	1/07	1/15	1/26	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	219	212	206	201	197	193	188	182	175
32	249	239	232	225	219	213	207	200	189
28	273	264	257	252	247	242	236	230	221
24	316	305	297	291	285	278	272	264	253
20	>365	340	327	318	311	304	297	289	278
16	>365	>365	>365	>365	349	334	323	313	300

\* 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	690	494	321	129	29	0	0	0	8	87	357	611	2726
60	546	364	192	52	7	0	0	0	0	29	231	467	1888
57	461	292	132	24	2	0	0	0	0	12	169	383	1475
55	407	248	98	13	1	0	0	0	0	6	134	331	1238
50	285	157	39	1	0	0	0	0	0	1	67	219	769
32	34	8	0	0	0	0	0	0	0	0	0	17	59

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	367	443	710	909	1213	1389	1549	1527	1290	1010	643	430	11480
55	27	38	96	232	501	699	836	814	600	303	86	31	4263
57	19	26	67	182	441	639	774	752	540	246	61	22	3769
60	11	14	34	120	353	549	681	659	450	171	33	12	3087
65	0	4	9	48	219	399	526	504	308	73	10	1	2101
70	0	0	0	12	115	252	371	352	183	22	0	0	1307

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	193	283	499	677	961	1151	1300	1290	1055	767	426	235	193	476	975	1652	2613	3764	5064	6354	7409	8176	8602	8837
45	113	180	357	527	806	1001	1145	1135	905	614	295	140	113	293	650	1177	1983	2984	4129	5264	6169	6783	7078	7218
50	56	105	233	384	651	851	990	980	755	463	189	77	56	161	394	778	1429	2280	3270	4250	5005	5468	5657	5734
55	23	56	137	250	496	701	835	825	607	322	106	39	23	79	216	466	962	1663	2498	3323	3930	4252	4358	4397
60	7	22	66	142	346	551	680	670	464	194	51	16	7	29	95	237	583	1134	1814	2484	2948	3142	3193	3209
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	141	197	325	442	648	790	874	854	706	506	275	168	141	338	663	1105	1753	2543	3417	4271	4977	5483	5758	5926

(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](http://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](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> |
|---|---|

## 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)