

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: LAMESA 1 SSE, TX

1971-2000

COOP ID: 415013

Climate Division: TX 1

NWS Call Sign:

Elevation: 2,965 Feet Lat: 32°43N

Lon: 101°57W

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	54.2	26.0	40.1	84	1974	22	45.0	1998	-6	1930	17	32.4	1979	772	0	.0	.0	20.5	2.4	26.0	.1
Feb	59.9	30.0	45.0	90+	1986	27	52.1	1976	-12	1933	8	37.3	1978	561	0	.0	.1	22.7	1.2	18.3	.1
Mar	68.1	36.2	52.2	95+	1967	30	58.9	1974	7	1943	3	46.6	1996	399	1	.0	.3	28.6	.2	9.2	.0
Apr	76.1	44.3	60.2	100+	1972	12	65.6	1986	23	1938	7	54.6	1997	179	36	.1	3.4	29.2	.0	2.1	.0
May	84.2	54.8	69.5	109	2000	25	76.6	1996	35+	1996	1	65.7	1976	41	181	1.8	11.3	31.0	.0	.0	.0
Jun	90.6	63.0	76.8	114	1994	28	82.8	1990	42	1964	1	73.7	1997	1	355	4.5	19.5	30.0	.0	.0	.0
Jul	92.9	66.4	79.7	111+	1989	3	83.9	1998	54+	1985	1	74.1	1976	0	454	5.6	24.9	31.0	.0	.0	.0
Aug	91.3	65.0	78.2	111	1978	19	81.8	1985	50	1928	24	74.7	1971	0	409	3.1	22.6	31.0	.0	.0	.0
Sep	84.8	59.0	71.9	106	1930	19	78.7	1977	36+	1999	30	66.8	1974	15	221	1.0	11.9	29.9	.0	.0	.0
Oct	76.5	48.0	62.3	101+	2000	3	65.6	1983	22	1991	31	54.7	1976	130	44	.2	2.7	30.3	.0	.9	.0
Nov	64.6	35.7	50.2	92	1980	8	55.2	1973	6	1976	14	44.0	2000	450	4	.0	.1	26.5	.2	10.7	.0
Dec	56.1	28.0	42.1	86	1958	5	46.7	1984	-3	1989	23	32.7	1983	712	0	.0	.0	22.4	1.5	23.2	.1
Ann	74.9	46.4	60.7	114	Jun 1994	28	83.9	Jul 1998	-12	Feb 1933	8	32.4	Jan 1979	3260	1705	16.3	96.8	333.1	5.5	90.4	.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/normal/usnormals.html

Issue Date: February 2004

(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

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Climate Division: TX 1

NWS Call Sign:

Elevation: 2,965 Feet Lat: 32°43N

Lon: 101°57W

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	.57	.34	2.15	1939	8	2.55	1973	.00+	1987	3.3	1.7	.2	@	.00	.00	.07	.16	.26	.37	.52	.70	.95	1.39	1.83
Feb	.77	.41	1.70	1911	16	2.57	1992	.00+	1999	3.6	1.9	.5	.1	.00	.00	.03	.14	.27	.44	.65	.93	1.32	2.00	2.70
Mar	.73	.72	1.68	1968	20	2.24	1999	.00+	1997	2.7	1.4	.4	.2	.00	.00	.06	.15	.26	.41	.60	.85	1.22	1.87	2.54
Apr	.88	.70	2.30	1915	24	4.24	1976	.00+	1991	3.7	2.3	.5	.1	.00	.07	.21	.34	.49	.66	.85	1.09	1.43	1.98	2.53
May	2.35	1.75	2.49	1969	6	8.62	1987	.16	1996	5.3	3.8	1.7	.7	.29	.47	.80	1.13	1.47	1.86	2.31	2.87	3.62	4.86	6.06
Jun	2.81	2.47	5.72	1913	29	7.29	1986	.11	1974	5.5	4.4	1.9	.8	.40	.63	1.03	1.42	1.83	2.28	2.80	3.44	4.29	5.69	7.04
Jul	2.19	1.36	3.63	1955	20	7.92	1976	.08	2000	5.1	3.5	1.5	.7	.10	.21	.45	.74	1.08	1.48	1.98	2.62	3.54	5.11	6.69
Aug	2.00	1.96	4.52	1920	16	6.06	1972	.06	1994	5.5	3.5	1.3	.5	.12	.24	.48	.75	1.06	1.42	1.86	2.42	3.20	4.53	5.86
Sep	3.42	3.27	3.42	1980	28	9.78	1980	.00+	1979	5.7	3.9	2.4	1.1	.00	.07	.41	.85	1.39	2.07	2.92	4.05	5.69	8.55	11.46
Oct	1.76	.86	6.24	1985	10	7.89	1985	.00+	1992	4.2	2.9	1.1	.4	.00	.00	.14	.36	.64	1.00	1.46	2.07	2.96	4.52	6.13
Nov	.82	.61	2.27	1923	19	2.92	1984	.00+	1999	2.9	1.7	.6	.2	.00	.00	.06	.17	.31	.48	.70	.98	1.39	2.09	2.80
Dec	.77	.41	2.35	1942	20	4.97	1991	.00+	1973	3.1	1.9	.5	.1	.00	.01	.05	.13	.25	.40	.60	.87	1.28	2.03	2.81
Ann	19.07	18.58	6.24	Oct 1985	10	9.78	Sep 1980	.00+	Nov 1999	50.6	32.9	12.6	4.9	10.95	12.39	14.31	15.81	17.18	18.53	19.94	21.53	23.50	26.42	29.00

+ 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

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Station: LAMESA 1 SSE, TX

COOP ID: 415013

Climate Division: TX 1

NWS Call Sign:

Elevation: 2,965 Feet

Lat: 32° 43N

Lon: 101° 57W

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	1.3	.0	0	0	8.0	1983	1	11.5	1983	0	0	0	0	0	.4	.3	.2	.1	.0	.0	.0	.0	.0
Feb	.7	.0	#	0	6.0	1988	6	8.0	1988	1	1986	10	#+	1993	.3	.3	.1	.1	.0	.0	.0	.0	.0
Mar	.2	.0	0	0	2.0	1989	5	2.0	1989	0	0	0	0	0	.2	.1	.0	.0	.0	.0	.0	.0	.0
Apr	#	.0	0	0	#	1983	8	#	1983	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	.6	.0	#	0	6.0	1976	13	7.0+	1980	#	1995	28	#	1995	.2	.2	.1	.1	.0	.0	.0	.0	.0
Dec	1.0	.0	#	0	5.0	1982	31	9.5	1982	4	1979	14	#+	1997	.3	.3	.1	.1	.0	.1	.1	.0	.0
Ann	3.8	.0	N/A	N/A	8.0	Jan 1983	1	11.5	Jan 1983	4	Dec 1979	14	#+	Dec 1997	1.4	1.2	.5	.4	.0	.1	.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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COOP ID: 415013

Climate Division: TX 1

NWS Call Sign:

Elevation: 2,965 Feet

Lat: 32° 43N

Lon: 101° 57W

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	4/27	4/22	4/19	4/16	4/14	4/11	4/08	4/05	3/31
32	4/18	4/13	4/10	4/07	4/04	4/01	3/29	3/25	3/21
28	4/10	4/04	3/31	3/27	3/24	3/20	3/16	3/12	3/06
24	3/29	3/21	3/15	3/10	3/05	2/28	2/23	2/18	2/09
20	3/17	3/09	3/03	2/26	2/21	2/16	2/11	2/05	1/27
16	2/27	2/18	2/11	2/05	1/31	1/25	1/18	1/10	12/26
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	10/17	10/21	10/25	10/29	11/02	11/07	11/13
32	10/19	10/25	10/29	11/01	11/05	11/08	11/11	11/15	11/21
28	10/28	11/03	11/07	11/11	11/14	11/17	11/21	11/25	12/01
24	11/06	11/12	11/17	11/20	11/24	11/27	12/01	12/05	12/11
20	11/12	11/22	11/29	12/05	12/10	12/16	12/22	12/29	1/08
16	11/23	12/04	12/12	12/19	12/26	1/02	1/10	1/21	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	215	208	203	198	194	189	185	179	172
32	237	229	223	219	214	210	205	199	192
28	258	250	244	239	235	230	225	219	211
24	291	282	275	269	263	257	251	244	234
20	320	311	304	298	292	286	280	273	263
16	>365	>365	353	338	327	318	310	300	287

* 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

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COOP ID: 415013

Climate Division: TX 1 NWS Call Sign: Elevation: 2,965 Feet Lat: 32°43N Lon: 101°57W

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	772	561	399	179	41	1	0	0	15	130	450	712	3260
60	617	422	255	87	11	0	0	0	2	52	313	557	2316
57	524	344	180	49	4	0	0	0	0	26	240	466	1833
55	464	292	137	31	2	0	0	0	0	15	196	407	1544
50	322	178	57	7	0	0	0	0	0	3	109	269	945
32	24	5	0	0	0	0	0	0	0	0	2	13	44

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	275	368	625	847	1163	1343	1477	1432	1197	937	546	324	10534
55	3	11	49	188	452	653	764	719	507	239	50	5	3640
57	0	6	29	146	392	593	702	657	447	187	33	2	3194
60	0	1	12	94	306	503	609	564	359	120	17	0	2585
65	0	0	1	36	181	355	454	409	221	44	4	0	1705
70	0	0	0	9	88	215	300	258	113	9	0	0	992

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	132	219	416	641	948	1135	1257	1210	977	702	342	162	132	351	767	1408	2356	3491	4748	5958	6935	7637	7979	8141
45	56	124	283	497	793	985	1102	1055	827	553	222	76	56	180	463	960	1753	2738	3840	4895	5722	6275	6497	6573
50	17	59	165	354	639	835	947	900	679	405	122	31	17	76	241	595	1234	2069	3016	3916	4595	5000	5122	5153
55	0	22	78	231	485	686	792	745	530	262	55	2	0	22	100	331	816	1502	2294	3039	3569	3831	3886	3888
60	0	1	30	131	336	537	637	590	388	147	15	0	0	1	31	162	498	1035	1672	2262	2650	2797	2812	2812
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	138	198	314	425	596	728	812	791	635	452	250	152	138	336	650	1075	1671	2399	3211	4002	4637	5089	5339	5491

(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