

Climatography of the United States

No. 20

1971-2000

Station: YSLETA, TX

COOP ID: 419966

Climate Division: TX 5

NWS Call Sign:

Elevation: 3,670 Feet Lat: 31° 42N

Lon: 106° 19W

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	60.5	29.2	44.9	86	1946	28	51.1	2000	-10	1962	11	39.6	1979	626	0	.0	.0	27.3	.2	21.8	.0
Feb	66.3	33.6	50.0	85+	1989	26	56.2	1996	6	1951	2	44.1	1973	423	1	.0	.0	27.2	.3	12.6	.0
Mar	73.7	40.0	56.9	93	1989	11	61.9	1989	13	1965	4	51.8	1977	268	15	.0	.1	30.9	.0	3.6	.0
Apr	81.4	46.9	64.2	102	1989	21	70.4	2000	22	1948	2	56.9	1983	120	95	.1	3.9	30.0	.0	.9	.0
May	89.9	56.0	73.0	109	1984	27	79.7	2000	26	1945	25	68.4	1975	22	268	1.6	17.0	31.0	.0	.0	.0
Jun	98.8	64.7	81.8	115	1994	27	88.0	1990	41	1945	1	77.4	1979	0	503	13.9	28.1	30.0	.0	.0	.0
Jul	98.7	68.5	83.6	112	1994	1	86.9	2000	47	1979	6	79.2	1975	0	576	14.7	29.2	31.0	.0	.0	.0
Aug	95.7	66.8	81.3	110	1977	20	86.2	1994	49+	1944	31	78.1	1971	0	503	7.8	27.4	31.0	.0	.0	.0
Sep	90.5	60.3	75.4	108	1982	2	80.9	1998	34	1945	30	70.3	1974	7	318	1.9	18.7	30.0	.0	.0	.0
Oct	81.4	48.3	64.9	99+	2000	3	69.4	1987	25	1956	31	58.1	1976	88	84	.0	4.8	30.8	.0	.5	.0
Nov	69.5	36.3	52.9	88+	1988	4	61.2	1999	8	1976	29	46.7	1976	372	9	.0	.0	29.3	.1	8.5	.0
Dec	60.5	28.8	44.7	82	1983	24	50.8	1981	0	1953	24	40.1	1976	631	0	.0	.0	28.3	@	21.7	.0
Ann	80.6	48.3	64.5	115	Jun 1994	27	88.0	Jun 1990	-10	Jan 1962	11	39.6	Jan 1979	2557	2372	40.0	129.2	356.8	.6	69.6	.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

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1939-2001

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

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No. 20 1971-2000

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

Station: YSLETA, TX

COOP ID: 419966

Climate Division: TX 5

NWS Call Sign:

Elevation: 3,670 Feet Lat: 31°42N

Lon: 106°19W

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	.55	.37	.99	1998	4	1.74	1992	.00+	2000	4.0	1.7	.1	.0	.00	.00	.12	.21	.31	.41	.54	.69	.90	1.24	1.58
Feb	.42	.31	.91	1958	21	2.29	1973	.00+	1999	2.9	1.3	.2	.0	.00	.00	.03	.10	.18	.28	.38	.52	.71	1.03	1.36
Mar	.24	.22	1.59	1941	16	.78	1992	.00+	1996	2.1	.8	@	.0	.00	.00	.00	.05	.12	.18	.24	.32	.41	.57	.71
Apr	.27	.12	1.12	1966	24	1.60	1983	.00+	1999	1.7	.8	.2	.0	.00	.00	.00	.00	.06	.13	.22	.33	.48	.73	.98
May	.45	.28	.98	1994	25	2.46	1992	.00+	2000	2.8	1.4	.3	.0	.00	.00	.02	.07	.14	.23	.35	.51	.76	1.21	1.67
Jun	.78	.40	1.93	2000	2	2.81	2000	.00+	1990	3.6	1.9	.4	.1	.00	.00	.07	.18	.30	.46	.66	.93	1.31	1.99	2.67
Jul	1.34	1.33	3.08	1968	6	2.68	1986	.00	1992	7.4	3.5	.6	.1	.28	.47	.69	.87	1.04	1.22	1.41	1.63	1.92	2.38	2.80
Aug	1.73	1.69	1.68	1972	26	3.85	1991	.08	1973	6.9	4.0	1.2	.4	.20	.33	.57	.81	1.07	1.35	1.69	2.11	2.68	3.61	4.53
Sep	1.83	1.28	3.30	1974	23	9.52	1974	.00+	2000	6.3	3.5	.9	.5	.00	.21	.54	.84	1.14	1.46	1.84	2.29	2.90	3.91	4.88
Oct	.96	.71	2.26	1982	1	2.58	1977	.00+	1996	4.1	2.3	.5	.2	.00	.00	.17	.32	.49	.68	.91	1.20	1.59	2.25	2.91
Nov	.47	.41	.91	1968	27	1.56	1990	.00+	1999	2.6	1.2	.2	.0	.00	.00	.08	.17	.26	.36	.47	.60	.79	1.08	1.37
Dec	.67	.42	1.04	1992	5	3.38	1991	.00+	2000	3.7	1.6	.4	@	.00	.00	.03	.13	.25	.40	.58	.82	1.15	1.72	2.32
Ann	9.71	9.12	3.30	Sep 1974	23	9.52	Sep 1974	.00+	Dec 2000	48.1	24.0	5.0	1.3	5.62	6.35	7.32	8.08	8.76	9.44	10.15	10.95	11.94	13.40	14.69

+ 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: 1939-2001

(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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151 Patton Avenue
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Station: YSLETA, TX

COOP ID: 419966

Climate Division: TX 5

NWS Call Sign:

Elevation: 3,670 Feet

Lat: 31°42N

Lon: 106°19W

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	.0	.0	#	0	.3	1972	4	.3	1972	7	1971	8	#+	1972	.1	.0	.0	.0	.0	.0	.0	.0	.0
Feb	.0	.0	#	0	.3	1972	1	.3	1972	#	1972	1	#	1972	.1	.0	.0	.0	.0	.0	.0	.0	.0
Mar	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.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	0	0	.5	1980	16	.5	1980	0	0	0	0	0	.1	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.0	.0	N/A	N/A	.5	Nov 1980	16	.5	Nov 1980	7	Jan 1971	8	#+	Feb 1972	.3	.0	.0	.0	.0	.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:

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Station: YSLETA, TX

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Climate Division: TX 5

NWS Call Sign:

Elevation: 3,670 Feet

Lat: 31° 42N

Lon: 106° 19W

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	4/21	4/15	4/11	4/08	4/04	4/01	3/29	3/24	3/19
32	4/11	4/03	3/29	3/24	3/19	3/15	3/10	3/05	2/25
28	3/30	3/21	3/15	3/10	3/05	2/28	2/22	2/16	2/07
24	3/09	2/28	2/21	2/15	2/10	2/05	1/30	1/23	1/12
20	3/01	2/16	2/08	1/31	1/24	1/16	1/08	12/28	12/08
16	2/09	1/29	1/21	1/13	1/05	12/26	12/09	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	10/16	10/21	10/24	10/27	10/30	11/01	11/04	11/08	11/12
32	10/23	10/29	11/02	11/05	11/08	11/11	11/14	11/18	11/24
28	11/01	11/07	11/12	11/15	11/19	11/23	11/27	12/01	12/07
24	11/17	11/22	11/26	11/29	12/02	12/05	12/09	12/13	12/19
20	11/25	12/02	12/07	12/12	12/16	12/20	12/25	1/01	1/12
16	12/04	12/14	12/21	12/28	1/04	1/13	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	229	222	216	212	207	203	199	193	186
32	257	249	243	238	233	228	223	217	208
28	290	279	272	265	258	252	245	238	227
24	338	319	309	302	294	288	280	272	261
20	>365	>365	345	332	322	313	305	295	282
16	>365	>365	>365	>365	365	347	337	328	316

* 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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Climate Division: TX 5 NWS Call Sign: Elevation: 3,670 Feet Lat: 31°42N Lon: 106°19W

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	626	423	268	120	22	0	0	0	7	88	372	631	2557
60	472	293	149	54	5	0	0	0	0	32	244	477	1726
57	382	220	96	29	2	0	0	0	0	14	179	385	1307
55	324	178	67	18	1	0	0	0	0	8	142	326	1064
50	192	94	21	4	0	0	0	0	0	1	70	191	573
32	0	0	0	0	0	0	0	0	0	0	0	0	0

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	397	502	769	965	1269	1493	1599	1526	1301	1019	627	392	11859
55	8	36	124	293	557	803	886	813	611	314	79	5	4529
57	4	22	90	243	496	743	824	751	551	258	57	2	4041
60	1	10	51	179	406	653	731	658	461	183	31	0	3364
65	0	1	15	95	268	503	576	503	318	84	9	0	2372
70	0	0	2	39	154	356	421	350	191	28	1	0	1542

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	189	307	534	733	1028	1259	1360	1284	1061	780	401	177	189	496	1030	1763	2791	4050	5410	6694	7755	8535	8936	9113
45	85	181	382	585	873	1109	1205	1129	911	625	265	76	85	266	648	1233	2106	3215	4420	5549	6460	7085	7350	7426
50	25	87	240	439	718	959	1050	974	761	472	149	20	25	112	352	791	1509	2468	3518	4492	5253	5725	5874	5894
55	1	28	122	298	563	809	895	819	612	325	65	0	1	29	151	449	1012	1821	2716	3535	4147	4472	4537	4537
60	0	4	46	173	410	660	740	664	463	191	13	0	0	4	50	223	633	1293	2033	2697	3160	3351	3364	3364
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	183	252	382	487	649	769	855	825	679	503	304	176	183	435	817	1304	1953	2722	3577	4402	5081	5584	5888	6064

(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