

Climatography of the United States

No. 20

1971-2000

Station: SEALY, TX

COOP ID: 418160

Climate Division: TX 7

NWS Call Sign:

Elevation: 194 Feet Lat: 29°47N Lon: 96°08W

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	62.0	40.7	51.4	88	1921	6	58.3	1971	2	1930	18	42.2	1978	443	12	.0	.0	25.9	.3	5.8	.0
Feb	66.1	43.7	54.9	90	1927	24	61.9	1999	8	1951	2	44.6	1978	302	18	.0	.0	25.5	.3	3.3	.0
Mar	73.0	50.5	61.8	96	1928	26	66.7	2000	20	1943	3	55.9	1996	142	41	.0	.2	30.4	.0	.8	.0
Apr	79.3	56.9	68.1	96+	1930	17	72.3	1981	32+	1987	3	63.1	1997	40	132	.0	.5	30.0	.0	@	.0
May	85.8	64.7	75.3	99+	1998	31	79.6	1996	42	1954	4	71.0	1976	3	321	.0	6.0	31.0	.0	.0	.0
Jun	91.4	70.5	81.0	108	1937	30	86.5	1998	54	1970	3	78.2	1976	0	479	.8	19.3	30.0	.0	.0	.0
Jul	94.9	72.2	83.6	110	1954	26	87.8	1998	56	1967	16	79.6	1976	0	575	3.6	27.6	31.0	.0	.0	.0
Aug	95.1	71.9	83.5	108+	1962	13	86.6	1999	58	1967	13	80.4	1992	0	574	3.4	27.9	31.0	.0	.0	.0
Sep	90.1	67.6	78.9	111	2000	4	82.7	1998	42	1942	27	72.7	1974	0	415	.6	16.5	30.0	.0	.0	.0
Oct	82.7	58.5	70.6	101	1938	2	72.6	1979	28	1993	31	62.0	1976	19	191	.0	4.1	31.0	.0	@	.0
Nov	71.6	49.3	60.5	92	1934	1	66.6	1973	23+	1970	24	52.3	1976	199	62	.0	@	29.2	.0	1.2	.0
Dec	64.4	42.2	53.3	88	1948	12	62.0	1984	0	1989	23	43.0	1989	382	19	.0	.0	27.4	.3	4.6	@
Ann	79.7	57.4	68.6	111	Sep 2000	4	87.8	Jul 1998	0	Dec 1989	23	42.2	Jan 1978	1530	2839	8.4	102.1	352.4	.9	15.7	@

+ 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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No. 20 1971-2000

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

Station: SEALY, TX

COOP ID: 418160

Climate Division: TX 7

NWS Call Sign:

Elevation: 194 Feet Lat: 29°47N

Lon: 96°08W

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	3.14	2.96	4.20	1920	23	8.03	1991	.16	1971	8.4	6.0	2.4	.9	.46	.72	1.17	1.61	2.06	2.56	3.14	3.84	4.79	6.33	7.81
Feb	2.81	2.31	4.65	1961	16	8.81	1992	.30	1989	6.4	4.6	2.1	.9	.57	.83	1.24	1.62	2.00	2.41	2.87	3.42	4.16	5.33	6.44
Mar	2.61	2.65	7.25	1922	29	5.75	1997	.00	1996	7.3	4.4	1.6	.6	.37	.71	1.15	1.52	1.89	2.27	2.70	3.21	3.88	4.95	5.95
Apr	3.22	2.37	5.26	1952	12	11.62	1991	.00	1987	6.4	4.1	1.8	1.0	.08	.29	.71	1.16	1.68	2.27	2.99	3.91	5.20	7.38	9.54
May	4.71	5.29	6.26	1935	4	10.73	1987	.00	1996	7.4	5.8	3.2	1.6	.41	.93	1.70	2.39	3.10	3.87	4.74	5.81	7.24	9.56	11.78
Jun	3.85	3.17	6.44	1921	22	12.81	1993	.37	1982	7.3	5.8	2.7	1.2	.53	.85	1.40	1.93	2.50	3.11	3.83	4.71	5.89	7.83	9.70
Jul	1.93	1.71	5.90	1961	10	4.46	1983	.30	1986	6.2	4.2	1.7	.6	.29	.46	.74	1.00	1.28	1.58	1.93	2.35	2.92	3.85	4.74
Aug	3.06	2.83	11.00	1945	28	7.72	1971	.00	1993	7.6	5.4	2.1	.8	.15	.42	.87	1.32	1.80	2.34	2.98	3.76	4.84	6.62	8.36
Sep	4.33	3.33	6.05	1961	12	10.36	1978	.52	1999	5.6	4.9	2.9	1.7	.80	1.19	1.82	2.41	3.01	3.66	4.39	5.28	6.46	8.36	10.17
Oct	4.44	3.58	9.98	1998	18	14.99	1994	.50	1987	6.7	5.1	2.6	1.4	.39	.70	1.29	1.91	2.58	3.35	4.26	5.41	6.99	9.63	12.23
Nov	3.68	3.04	5.02	1929	9	10.87	2000	.32	1988	7.1	5.2	2.5	1.2	.62	.94	1.48	1.99	2.50	3.07	3.71	4.49	5.54	7.23	8.84
Dec	2.90	2.53	4.80	1945	2	8.64	1991	.48	1999	7.3	4.9	2.1	.9	.72	1.00	1.42	1.79	2.16	2.55	2.99	3.51	4.18	5.25	6.25
Ann	40.68	40.62	11.00	Aug 1945	28	14.99	Oct 1994	.00+	May 1996	83.7	60.4	27.7	12.8	26.65	29.28	32.70	35.32	37.68	39.97	42.35	45.00	48.24	52.99	57.13

+ 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:
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Station: SEALY, TX

COOP ID: 418160

Climate Division: TX 7

NWS Call Sign:

Elevation: 194 Feet

Lat: 29°47N

Lon: 96°08W

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	.0	0	0	.0	0	#	1987	31	#	1987	.0	.0	.0	.0	.0	.0	.0	.0	.0
Feb	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.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	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	#	.0	0	0	#	1986	11	#	1986	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	#	.0	N/A	N/A	#	Dec 1986	11	#	Dec 1986	#	Jan 1987	31	#	Jan 1987	.0	.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: SEALY, TX

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Climate Division: TX 7

NWS Call Sign:

Elevation: 194 Feet

Lat: 29° 47N

Lon: 96° 08W

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	3/30	3/22	3/17	3/12	3/08	3/03	2/26	2/21	2/13
32	3/17	3/08	3/01	2/23	2/18	2/12	2/06	1/31	1/21
28	3/09	2/25	2/15	2/08	1/31	1/24	1/16	1/06	12/21
24	2/18	2/07	1/30	1/23	1/15	1/07	12/27	0/00	0/00
20	1/25	1/14	1/03	12/18	0/00	0/00	0/00	0/00	0/00
16	1/03	0/00	0/00	0/00	0/00	0/00	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	10/27	11/03	11/07	11/12	11/15	11/19	11/23	11/28	12/05
32	11/07	11/17	11/25	12/02	12/08	12/14	12/21	12/29	1/09
28	11/20	11/29	12/05	12/11	12/16	12/21	12/27	1/03	1/14
24	12/02	12/13	12/21	12/28	1/04	1/13	1/26	0/00	0/00
20	12/21	1/01	1/12	1/28	0/00	0/00	0/00	0/00	0/00
16	1/06	0/00	0/00	0/00	0/00	0/00	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	281	271	264	258	252	246	240	233	223
32	332	316	306	298	291	283	275	266	254
28	>365	352	336	326	318	310	301	292	279
24	>365	>365	>365	>365	350	336	326	316	303
20	>365	>365	>365	>365	>365	>365	>365	>365	351
16	>365	>365	>365	>365	>365	>365	>365	>365	>365

* 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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Station: SEALY, TX

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Climate Division: TX 7 NWS Call Sign: Elevation: 194 Feet Lat: 29° 47N Lon: 96° 08W

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	443	302	142	40	3	0	0	0	0	19	199	382	1530
60	315	194	60	8	0	0	0	0	0	4	116	257	954
57	249	143	30	2	0	0	0	0	0	1	78	196	699
55	212	114	18	0	0	0	0	0	0	1	57	161	563
50	131	55	4	0	0	0	0	0	0	0	23	87	300
32	7	0	0	0	0	0	0	0	0	0	0	0	7

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	607	641	922	1082	1341	1469	1598	1597	1405	1196	853	660	13371
55	98	110	227	392	628	779	885	884	715	483	220	108	5529
57	74	83	177	334	566	719	823	822	655	422	180	81	4936
60	46	50	114	250	473	629	730	729	565	331	129	49	4095
65	12	18	41	132	321	479	575	574	415	191	62	19	2839
70	8	6	9	52	182	329	420	419	270	82	23	7	1807

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	393	466	704	850	1105	1232	1348	1346	1161	947	621	435	393	859	1563	2413	3518	4750	6098	7444	8605	9552	10173	10608
45	271	335	551	700	950	1082	1193	1191	1011	792	477	301	271	606	1157	1857	2807	3889	5082	6273	7284	8076	8553	8854
50	165	215	402	550	795	932	1038	1036	861	637	339	187	165	380	782	1332	2127	3059	4097	5133	5994	6631	6970	7157
55	90	126	266	404	640	782	883	881	711	484	222	105	90	216	482	886	1526	2308	3191	4072	4783	5267	5489	5594
60	41	59	151	267	485	632	728	726	561	337	128	54	41	100	251	518	1003	1635	2363	3089	3650	3987	4115	4169
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	237	283	438	563	770	852	904	899	791	631	389	269	237	520	958	1521	2291	3143	4047	4946	5737	6368	6757	7026

(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