U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Service

Climatography of the United States No. 20 1971-2000

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

Station: LEXINGTON, TX **COOP ID: 415193**

Climate Division: TX 7 **NWS Call Sign:** **Elevation: 465 Feet** **Lat: 30˚25N** **Lon: 97˚01W**

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	59.4	37.3	48.4	88	1972	24	54.5	1990	8	1982	11	39.2	1979	527	4	.0	.0	23.3	.5	10.3	.0
Feb	63.6	41.1	52.4	97	1996	22	60.3	1999	12	1985	1	41.9	1978	365	12	.0	.2	23.6	.5	5.2	.0
Mar	70.9	48.6	59.8	94	1971	23	64.4	2000	18	1980	2	54.0	1996	190	26	.0	.2	29.7	.0	1.4	.0
Apr	77.2	55.0	66.1	97	1963	9	71.0	1999	32+	1987	3	61.4	1973	64	98	.0	.9	29.9	.0	.1	.0
May	83.5	63.6	73.6	99	1984	7	79.1	1996	42+	1981	11	68.9	1976	10	274	.0	4.6	31.0	.0	.0	.0
Jun	89.7	70.0	79.9	102	1980	28	85.4	1990	52	1984	2	76.8	1983	0	446	.3	18.7	30.0	.0	.0	.0
Jul	93.6	72.5	83.1	105+	2000	16	88.5	1998	58	1967	16	79.2	1976	0	560	2.5	27.7	31.0	.0	.0	.0
Aug	94.0	72.1	83.1	107+	1962	12	87.3	1999	58	1967	13	79.6	1992	0	561	3.0	27.4	31.0	.0	.0	.0
Sep	89.0	67.2	78.1	111	2000	6	82.2	1998	41	1967	28	70.9	1974	1	393	.7	16.7	30.0	.0	.0	.0
Oct	80.5	57.4	69.0	97+	1998	5	71.8	1998	25	1993	31	59.6	1976	33	156	.0	3.1	30.9	.0	.1	.0
Nov	69.6	47.9	58.8	90+	1989	9	64.0	1973	19+	1993	27	50.8	1976	227	39	.0	@	28.5	.0	2.2	.0
Dec	61.7	39.6	50.7	84+	1995	4	58.9	1984	2	1989	23	41.7	1983	452	8	.0	.0	25.5	.5	7.2	.0
Ann	77.7	56.0	66.9	111	Sep 2000	6	88.5	Jul 1998	2	Dec 1989	23	39.2	Jan 1979	1869	2577	6.5	99.5	344.4	1.5	26.5	.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/normals/usnormals.html

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1948-2001

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

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Precipitation (inches)

Precipitation Totals

Month	Means/ Medians(1) Mean	Means/ Medians(1) Median	Extremes Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year
Jan	2.60	1.67	3.67	1991	10	12.52	1991	.00+	1996
Feb	2.13	1.81	2.55+	1965	17	8.03	1992	.00+	1999
Mar	2.54	2.56	2.60	1999	13	5.27	1983	.09	1971
Apr	2.48	2.36	3.40	1949	26	7.81	1976	.11	1984
May	4.82	4.61	5.80	1975	24	12.55	1975	.25	1998
Jun	3.78	3.28	4.50	1981	11	11.60	1981	.00+	1998
Jul	1.63	1.42	2.29	1992	21	5.37	1979	.00+	1993
Aug	2.06	1.72	4.10	1994	22	8.89	1974	.08	1993
Sep	3.26	3.11	4.42	1962	8	6.74	1998	.57	1999
Oct	4.69	3.76	10.13	1994	17	15.78	1994	.27	1987
Nov	3.25	2.75	4.61	1985	25	8.40	2000	.32	1999
Dec	2.78	2.14	4.87	1991	21	13.18	1991	.25	1999
Ann	36.02	37.48	10.13	Oct 1994	17	15.78	Oct 1994	.00+	Feb 1999

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	6.6	4.6	1.5	.8
Feb	6.2	4.2	1.4	.5
Mar	6.3	4.2	1.8	.7
Apr	5.4	3.6	1.9	.8
May	7.7	6.0	2.9	1.5
Jun	6.5	5.0	2.3	1.2
Jul	4.4	3.3	1.2	.3
Aug	4.5	3.0	1.3	.7
Sep	6.2	4.5	2.1	1.1
Oct	5.8	4.6	2.6	1.5
Nov	6.4	4.5	2.1	1.1
Dec	7.0	4.5	1.9	.8
Ann	73.0	52.0	23.0	11.0

Precipitation Probabilities (1)

Probability that the monthly/annual precipitation will be equal to or less than the indicated amount

Monthly/Annual Precipitation vs Probability Levels
These values were determined from the incomplete gamma distribution

Month	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	.00	.32	.80	1.21	1.64	2.09	2.62	3.24	4.09	5.48	6.82
Feb	.00	.30	.71	1.06	1.40	1.76	2.18	2.66	3.32	4.39	5.41
Mar	.45	.67	1.04	1.39	1.74	2.13	2.57	3.10	3.81	4.95	6.04
Apr	.31	.51	.86	1.20	1.57	1.97	2.45	3.03	3.82	5.11	6.37
May	.83	1.25	1.95	2.61	3.29	4.03	4.87	5.88	7.24	9.44	11.53
Jun	.00	.68	1.45	2.05	2.63	3.25	3.94	4.72	5.79	7.50	9.12
Jul	.00	.10	.35	.60	.87	1.18	1.55	2.01	2.65	3.73	4.79
Aug	.11	.23	.48	.75	1.07	1.44	1.90	2.48	3.31	4.71	6.11
Sep	.72	1.02	1.50	1.93	2.36	2.82	3.34	3.95	4.76	6.05	7.27
Oct	.46	.80	1.44	2.10	2.80	3.60	4.54	5.72	7.33	10.01	12.62
Nov	.51	.78	1.25	1.70	2.17	2.68	3.26	3.97	4.93	6.48	7.97
Dec	.27	.48	.86	1.24	1.66	2.14	2.70	3.40	4.35	5.94	7.50
Ann	20.92	23.62	27.19	29.99	32.54	35.04	37.67	40.62	44.27	49.67	54.44

+ 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: 1948-2001
(3) Derived from 1971-2000 serially complete daily data

Complete documentation available from:
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Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	.0	.0	0	0
Feb	#	.0	0	0
Mar	.0	.0	0	0
Apr	.0	.0	0	0
May	.0	.0	0	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	.0	.0	0	0
Nov	.0	.0	0	0
Dec	.0	.0	0	0
Ann	#	.0	N/A	N/A

Extremes (2)

Month	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year
Jan	.0	0	0	.0	0	0	0	0	0	0
Feb	#	1989	6	#	1989	0	0	0	0	0
Mar	.0	0	0	.0	0	0	0	0	0	0
Apr	.0	0	0	.0	0	0	0	0	0	0
May	.0	0	0	.0	0	0	0	0	0	0
Jun	.0	0	0	.0	0	0	0	0	0	0
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	.0	0	0	.0	0	0	0	0	0	0
Oct	.0	0	0	.0	0	0	0	0	0	0
Nov	.0	0	0	.0	0	0	0	0	0	0
Dec	.0	0	0	.0	0	0	0	0	0	0
Ann	#	Feb 1989	6	#	Feb 1989	0	0	0	0	0

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.0	.0	.0	.0	.0
Feb	.0	.0	.0	.0	.0
Mar	.0	.0	.0	.0	.0
Apr	.0	.0	.0	.0	.0
May	.0	.0	.0	.0	.0
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.0	.0	.0	.0	.0
Oct	.0	.0	.0	.0	.0
Nov	.0	.0	.0	.0	.0
Dec	.0	.0	.0	.0	.0
Ann	.0	.0	.0	.0	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.0	.0	.0	.0
Feb	.0	.0	.0	.0
Mar	.0	.0	.0	.0
Apr	.0	.0	.0	.0
May	.0	.0	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.0	.0	.0	.0
Nov	.0	.0	.0	.0
Dec	.0	.0	.0	.0
Ann	.0	.0	.0	.0

+ Also occurred on an earlier date(s) #Denotes trace amounts

(1) Derived from Snow Climatology and 1971-2000 daily data

@ Denotes mean number of days greater than 0 but less than .05

(2) Derived from 1971-2000 daily data

-9/-9.9 represents missing values

Annual statistics for Mean/Median snow depths are not appropriate

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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	4/08	3/31	3/25	3/21	3/16	3/12	3/07	3/02	2/22
32	3/26	3/17	3/11	3/06	3/01	2/24	2/19	2/13	2/05
28	3/14	3/04	2/25	2/19	2/13	2/07	2/01	1/25	1/15
24	3/02	2/19	2/11	2/04	1/28	1/21	1/13	1/02	0/00
20	2/19	2/07	1/28	1/20	1/11	12/31	12/12	0/00	0/00
16	1/25	1/13	1/01	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	10/25	11/01	11/06	11/11	11/15	11/19	11/23	11/28	12/05
32	11/02	11/09	11/14	11/18	11/22	11/26	11/30	12/05	12/12
28	11/17	11/25	11/30	12/05	12/09	12/14	12/18	12/24	12/31
24	11/29	12/07	12/13	12/18	12/22	12/27	1/02	1/10	0/00
20	12/08	12/21	12/31	1/09	1/19	2/01	0/00	0/00	0/00
16	12/29	1/09	1/22	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	274	263	255	249	243	237	230	222	212
32	292	283	276	271	265	260	254	248	239
28	329	317	309	303	297	292	286	279	269
24	>365	>365	>365	336	325	317	309	300	289
20	>365	>365	>365	>365	>365	351	338	326	313
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

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Degree Days to Selected Base Temperatures (˚F)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	527	365	190	64	10	0	0	0	1	33	227	452	1869
60	387	246	93	17	1	0	0	0	0	7	133	312	1196
57	311	187	53	6	0	0	0	0	0	3	89	239	888
55	266	153	34	2	0	0	0	0	0	1	66	196	718
50	174	84	9	0	0	0	0	0	0	0	26	111	404
32	11	1	0	0	0	0	0	0	0	0	0	1	13

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	518	572	859	1024	1288	1436	1583	1584	1382	1146	803	580	12775
55	60	80	180	336	575	746	870	871	692	434	178	62	5084
57	43	58	137	279	513	686	808	809	632	373	142	43	4523
60	26	33	84	201	421	596	715	716	542	285	95	23	3737
65	4	12	26	98	274	446	560	561	393	156	39	8	2577
70	0	0	6	34	150	297	405	406	253	63	13	0	1627

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	300	390	635	806	1062	1219	1358	1354	1154	906	570	356	300	690	1325	2131	3193	4412	5770	7124	8278	9184	9754	10110
45	195	271	483	656	907	1069	1203	1199	1004	752	430	235	195	466	949	1605	2512	3581	4784	5983	6987	7739	8169	8404
50	108	173	345	507	752	919	1048	1044	854	598	301	141	108	281	626	1133	1885	2804	3852	4896	5750	6348	6649	6790
55	54	94	217	363	597	769	893	889	704	445	189	70	54	148	365	728	1325	2094	2987	3876	4580	5025	5214	5284
60	24	44	114	231	442	619	738	734	555	306	106	30	24	68	182	413	855	1474	2212	2946	3501	3807	3913	3943
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	189	240	392	522	737	850	925	913	783	601	353	220	189	429	821	1343	2080	2930	3855	4768	5551	6152	6505	6725

(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:
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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.
Compete documentation for the 1971-2000 Normals is available on the internet from:
www.ncdc.noaa.gov/oa/climate/normals/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 are 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.

a. Temperature/ Precipitation Tables
   1. 1971-2000 Monthly Normals
   2. Cooperative Summary of the Day
   3. National Weather Service station records
   4. 1971-2000 serially complete daily data

b. Degree Day Table
   1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals
   2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data

c. Snow Tables
   1. Snow Climatology
   2. Cooperative Summary of the Day

d. Freeze Data Table
   1971-2000 serially complete daily data

References

U.S. Climate Normals 1971-2000, www.ncdc.noaa.gov/normals.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normals/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