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: LAVON DAM, TX **COOP ID: 415094**

Climate Division: TX 3 **NWS Call Sign:** **Elevation: 510 Feet** **Lat: 33˚02N** **Lon: 96˚29W**

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	53.4	30.8	42.1	84	1957	10	48.1	1990	3	1964	14	32.2	1979	710	0	.0	.0	19.6	1.6	17.1	.0
Feb	58.9	35.6	47.3	96	1996	22	55.0	1999	7+	1996	5	35.1	1978	505	0	.0	.1	21.1	1.2	10.1	.0
Mar	66.9	43.4	55.2	95	1956	28	59.5	1974	12	1989	6	50.1	1975	314	8	.0	.1	29.0	.2	3.2	.0
Apr	74.5	51.2	62.9	94+	1989	4	67.8	1981	28	1989	11	58.0	1983	119	54	.0	.4	29.9	.0	.2	.0
May	81.9	60.0	71.0	98+	1996	28	76.8	1996	40	1997	13	65.7	1976	24	210	.0	3.3	31.0	.0	.0	.0
Jun	89.6	67.4	78.5	106	1980	27	83.6	1998	49	1989	16	74.9	1983	0	406	.5	16.6	30.0	.0	.0	.0
Jul	94.2	71.3	82.8	109+	1998	17	88.9	1998	58	1990	15	78.5	1976	0	550	4.1	27.1	31.0	.0	.0	.0
Aug	94.5	70.7	82.6	108+	1964	12	86.9	1999	56+	1997	7	78.4	1992	0	546	5.3	26.7	31.0	.0	.0	.0
Sep	88.0	64.3	76.2	111	2000	5	81.4	1998	36	2000	25	68.4	1974	4	338	1.1	14.7	30.0	.0	.0	.0
Oct	78.2	53.1	65.7	100	1953	1	69.1	1979	26	1993	31	57.8	1976	70	89	.0	2.3	30.8	.0	.2	.0
Nov	65.2	42.4	53.8	91	1970	7	59.9	1999	14	1976	29	46.3	1976	347	11	.0	.0	27.2	@	4.3	.0
Dec	56.3	33.9	45.1	87	1955	25	51.1	1984	-3	1989	23	34.0	1983	617	0	.0	.0	22.9	1.0	12.3	.1
Ann	75.1	52.0	63.6	111	Sep 2000	5	88.9	Jul 1998	-3	Dec 1989	23	32.2	Jan 1979	2710	2212	11.0	91.3	333.5	4.0	47.4	.1

\+ 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: 1949-2001

(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	2.26	2.13	3.11	1990	19	5.48	1998	.13	1986
Feb	2.76	2.51	3.45	1983	1	8.64	1997	.30	1996
Mar	3.32	3.11	3.10	1987	17	7.58	1984	.61	1971
Apr	3.64	2.88	5.60	1986	5	9.56	1986	.31	1987
May	5.27	5.80	6.08	1982	13	12.75	1982	.86	1988
Jun	4.12	3.04	4.00	1990	4	14.59	2000	.55	1971
Jul	2.20	1.80	4.02	1950	27	6.67	1976	.00	1993
Aug	1.86	1.45	3.35	1970	23	5.72	1974	.00	2000
Sep	3.27	2.91	7.85	1967	6	9.77	1973	.26+	2000
Oct	4.61	4.34	4.76	1996	28	12.43	1981	.11	1975
Nov	3.40	3.18	2.92+	2000	6	9.33	2000	.61	1976
Dec	3.35	2.69	4.03	1998	4	8.57	1991	.19	1981
Ann	40.06	40.75	7.85	Sep 1967	6	14.59	Jun 2000	.00+	Aug 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	8.4	4.6	1.6	.5
Feb	7.1	4.4	1.6	.7
Mar	8.8	5.2	2.2	1.1
Apr	7.8	5.1	2.4	1.0
May	9.5	6.4	3.6	1.7
Jun	7.9	5.6	2.8	1.2
Jul	5.0	3.1	1.2	.7
Aug	5.0	3.2	1.3	.6
Sep	6.6	4.7	2.1	1.1
Oct	7.7	5.6	2.6	1.6
Nov	7.9	5.1	2.4	.9
Dec	8.0	4.7	2.3	.9
Ann	89.7	57.7	26.1	12.0

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	.33	.52	.85	1.16	1.49	1.85	2.26	2.76	3.44	4.55	5.62
Feb	.51	.76	1.16	1.54	1.92	2.33	2.79	3.36	4.11	5.31	6.45
Mar	.80	1.11	1.60	2.03	2.46	2.91	3.42	4.02	4.81	6.07	7.25
Apr	.58	.90	1.42	1.93	2.44	3.01	3.65	4.44	5.50	7.21	8.85
May	1.11	1.60	2.37	3.07	3.78	4.54	5.39	6.41	7.76	9.91	11.95
Jun	.69	1.05	1.65	2.21	2.79	3.43	4.15	5.03	6.21	8.11	9.93
Jul	.03	.15	.40	.70	1.05	1.46	1.98	2.64	3.59	5.21	6.84
Aug	.04	.16	.40	.66	.96	1.31	1.73	2.26	3.01	4.28	5.54
Sep	.52	.80	1.27	1.72	2.19	2.69	3.28	3.99	4.94	6.49	7.97
Oct	.32	.61	1.19	1.82	2.53	3.35	4.34	5.59	7.34	10.28	13.20
Nov	.68	.99	1.49	1.94	2.41	2.90	3.46	4.14	5.03	6.46	7.81
Dec	.51	.80	1.28	1.75	2.23	2.75	3.36	4.10	5.09	6.70	8.24
Ann	26.22	28.82	32.18	34.77	37.09	39.35	41.71	44.32	47.52	52.20	56.29

\+ 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: 1949-2001
(3) Derived from 1971-2000 serially complete daily data

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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	.1	.0	#	0
Feb	.0	.0	#	0
Mar	.2	.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	.5	.0	#	0
Ann	.8	.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	1.0	1977	30	1.0	1977	1	1977	30	#	1977
Feb	.0	0	0	.0	0	1	1989	6	#	1989
Mar	1.4	1989	5	1.4	1989	#	1989	6	#	1989
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	3.0	2000	27	4.4	2000	3	2000	27	#+	2000
Ann	3.0	Dec 2000	27	4.4	Dec 2000	3	Dec 2000	27	#+	Dec 2000

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.1	.1	.0	.0	.0
Feb	.0	.0	.0	.0	.0
Mar	-9.9	-9.9	-9.9	-9.9	-9.9
Apr	.0	.0	.0	.0	.0
May	.0	.0	.0	.0	.0
Jun	-9.9	-9.9	-9.9	-9.9	-9.9
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	-9.9	-9.9	-9.9	-9.9	-9.9
Dec	-9.9	-9.9	-9.9	-9.9	-9.9
Ann	-9.9	-9.9	-9.9	-9.9	-9.9

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	@	.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	.1	@	.0	.0
Ann	.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

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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	4/13	4/08	4/04	3/31	3/28	3/25	3/21	3/17	3/12
32	4/04	3/28	3/23	3/19	3/15	3/10	3/06	3/01	2/22
28	3/22	3/13	3/06	2/28	2/23	2/17	2/12	2/05	1/27
24	3/12	3/03	2/24	2/18	2/13	2/08	2/03	1/27	1/18
20	2/26	2/17	2/10	2/04	1/30	1/23	1/16	1/05	0/00
16	2/23	2/12	2/03	1/26	1/17	1/06	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	10/19	10/26	10/31	11/04	11/08	11/12	11/16	11/21	11/27
32	10/22	10/30	11/05	11/10	11/14	11/19	11/23	11/29	12/07
28	11/06	11/13	11/19	11/23	11/27	12/01	12/06	12/11	12/19
24	11/20	11/27	12/01	12/05	12/09	12/13	12/17	12/22	12/28
20	11/28	12/07	12/15	12/21	12/28	1/03	1/11	1/23	0/00
16	12/13	12/23	12/31	1/07	1/15	1/27	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	249	240	234	229	224	219	214	208	199
32	275	265	257	250	244	238	231	223	212
28	312	300	291	284	277	270	262	253	241
24	326	317	310	304	298	293	287	280	270
20	>365	>365	>365	353	333	321	310	300	287
16	>365	>365	>365	>365	>365	354	337	323	307

***** 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)

Base	Heating Degree Days (1)												
Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	710	505	314	119	24	0	0	0	4	70	347	617	2710
60	563	377	184	45	5	0	0	0	0	22	222	471	1889
57	477	307	124	20	1	0	0	0	0	8	161	385	1483
55	421	265	92	11	0	0	0	0	0	4	127	331	1251
50	295	177	37	1	0	0	0	0	0	0	62	215	787
32	35	15	0	0	0	0	0	0	0	0	0	13	63

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	349	442	717	926	1208	1396	1573	1569	1325	1042	654	419	11620
55	22	49	96	247	495	706	860	856	635	334	91	24	4415
57	16	35	67	196	435	646	798	794	575	276	65	16	3919
60	9	21	33	131	345	556	705	701	485	196	36	9	3227
65	0	0	8	54	210	406	550	546	338	89	11	0	2212
70	0	0	0	15	105	260	395	392	206	29	1	0	1403

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	169	280	499	710	991	1182	1351	1339	1101	812	440	231	169	449	948	1658	2649	3831	5182	6521	7622	8434	8874	9105
45	90	182	356	560	836	1032	1196	1184	951	657	311	130	90	272	628	1188	2024	3056	4252	5436	6387	7044	7355	7485
50	39	105	230	416	681	882	1041	1029	801	504	198	62	39	144	374	790	1471	2353	3394	4423	5224	5728	5926	5988
55	12	49	128	275	526	732	886	874	651	357	111	24	12	61	189	464	990	1722	2608	3482	4133	4490	4601	4625
60	0	18	58	159	371	582	731	719	504	225	53	3	0	18	76	235	606	1188	1919	2638	3142	3367	3420	3423
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	112	178	298	445	666	815	908	894	738	519	264	146	112	290	588	1033	1699	2514	3422	4316	5054	5573	5837	5983

(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