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: DIMMITT 2 N, TX **COOP ID: 412464**

Climate Division: TX 1 **NWS Call Sign:** **Elevation: 3,850 Feet** **Lat: 34˚36N** **Lon: 102˚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	48.8	20.4	34.6	80+	1974	18	40.6	1986	-8	1963	13	26.0	1979	943	0	.0	.0	17.5	4.3	29.3	.3
Feb	54.0	23.7	38.9	84	1972	29	45.6	2000	-9	1986	11	30.2	1978	733	0	.0	.0	19.1	2.4	23.9	.4
Mar	62.4	29.1	45.8	92	1989	12	51.0	1974	3+	1965	21	42.3	1987	596	0	.0	.1	26.9	.7	19.6	.0
Apr	70.9	37.3	54.1	98+	1989	23	58.7	1986	18+	1997	13	46.8	1973	338	11	.0	.7	28.5	@	8.2	.0
May	79.4	47.7	63.6	102+	2000	24	71.1	1996	28+	1991	2	59.5	1976	121	76	.4	5.3	30.8	.0	.6	.0
Jun	87.7	57.5	72.6	108	1998	28	79.1	1990	38	1970	4	68.4	1989	14	242	2.5	14.1	30.0	.0	.0	.0
Jul	90.1	61.7	75.9	111	1983	4	80.6	1998	48+	1990	15	70.7	1976	1	339	1.9	19.1	31.0	.0	.0	.0
Aug	87.6	60.3	74.0	104	1964	7	77.8	1983	46	1976	29	69.3	1971	3	280	.5	14.8	31.0	.0	.0	.0
Sep	81.3	52.9	67.1	102	1983	7	73.5	1998	29	1983	21	60.0	1974	64	127	.2	7.4	29.7	.0	.2	.0
Oct	71.4	41.1	56.3	97	2000	4	60.2	1998	14	1991	31	49.3	1976	277	6	.0	.6	29.9	@	4.1	.0
Nov	58.4	28.8	43.6	87	1980	9	50.4	1999	-2	1991	3	36.9	1972	642	0	.0	.0	23.3	.9	19.6	.1
Dec	49.5	21.7	35.6	78	1970	9	41.0	1980	-6+	1982	30	25.5	1983	912	0	.0	.0	17.9	3.1	28.5	.8
Ann	70.1	40.2	55.2	111	Jul 1983	4	80.6	Jul 1998	-9	Feb 1986	11	25.5	Dec 1983	4644	1081	5.5	62.1	315.6	11.4	134.0	1.6

\+ 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: 1959-2001

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

Issue Date: February 2004

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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	.50	.30	1.40	1983	21	1.72	1983	.00+	1996
Feb	.51	.40	1.11	1998	16	2.71	1998	.00+	2000
Mar	.81	.59	1.59	2001	8	3.12	1973	.00	1996
Apr	.99	.84	1.57	1997	25	3.79	1997	.00+	1996
May	2.76	1.89	3.90	1987	27	9.92	1987	.04	1998
Jun	3.12	2.62	3.65	1965	11	7.10	1992	.25	1990
Jul	2.40	2.20	3.00+	1967	13	5.99	1993	.28	1983
Aug	3.06	2.24	3.16	1999	9	8.20	1999	.15	2000
Sep	2.57	2.45	3.71	1986	19	5.84+	1986	.00	2000
Oct	1.58	.94	4.38	1998	31	7.50	1998	.00+	1992
Nov	.71	.71	1.35	1978	4	1.96	1978	.00+	1999
Dec	.70	.38	2.00	1959	15	2.61	1991	.00	1976
Ann	19.71	18.59	4.38	Oct 1998	31	9.92	May 1987	.00+	Sep 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	3.3	1.2	.2	.1
Feb	3.8	1.5	.2	@
Mar	4.2	1.9	.4	.2
Apr	4.7	2.5	.4	.1
May	7.2	4.7	1.8	.6
Jun	7.5	5.2	2.2	.9
Jul	6.7	4.3	1.6	.6
Aug	8.2	5.2	2.0	.8
Sep	6.5	4.1	1.7	.7
Oct	4.8	2.7	1.0	.4
Nov	3.8	1.8	.3	.1
Dec	3.6	1.9	.3	.2
Ann	64.3	37.0	12.1	4.7

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	.00	.04	.11	.19	.30	.43	.60	.84	1.26	1.68
Feb	.00	.00	.05	.11	.19	.30	.43	.61	.86	1.31	1.77
Mar	.01	.05	.15	.26	.39	.54	.73	.97	1.32	1.91	2.51
Apr	.00	.06	.21	.37	.53	.72	.94	1.22	1.61	2.26	2.89
May	.13	.27	.59	.96	1.38	1.89	2.51	3.31	4.45	6.40	8.36
Jun	.50	.76	1.22	1.65	2.09	2.58	3.13	3.81	4.72	6.19	7.60
Jul	.46	.68	1.03	1.36	1.69	2.04	2.44	2.93	3.57	4.60	5.58
Aug	.37	.61	1.05	1.47	1.93	2.43	3.02	3.74	4.73	6.35	7.92
Sep	.10	.30	.67	1.05	1.45	1.92	2.47	3.16	4.11	5.69	7.25
Oct	.00	.07	.28	.51	.77	1.08	1.45	1.93	2.60	3.74	4.88
Nov	.00	.00	.14	.27	.40	.55	.71	.91	1.18	1.61	2.04
Dec	.01	.04	.11	.20	.31	.44	.61	.83	1.15	1.71	2.27
Ann	11.39	12.88	14.85	16.39	17.80	19.18	20.63	22.26	24.27	27.26	29.90

+ 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: 1959-2001
(3) Derived from 1971-2000 serially complete daily data

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Snow (inches)

Snow Totals

Means/Medians (1)

Extremes (2)

Mean Number of Days (1)

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	3.6	1.2	#	#	16.0	1983	21	16.0	1983	17	1983	23	2	1983	1.4	1.0	.4	.2	.1	1.8	.8	.2	.0
Feb	2.7	1.0	#	0	6.0	1971	22	14.3	1986	6	1971	22	#+	1999	1.2	.8	.3	.1	.0	.9	.2	.1	.0
Mar	.7	.0	#	0	3.0	1988	3	5.0	1988	3	1988	3	#+	1999	.6	.4	@	.0	.0	.4	.1	.0	.0
Apr	.5	.0	#	0	3.0	1983	5	9.0	1983	3	1983	8	#+	2000	.1	.1	.1	.0	.0	.2	.1	.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	.2	.0	#	0	2.0	1991	31	2.0+	1996	2	1991	31	#+	2000	.1	.1	.0	.0	.0	.1	.0	.0	.0
Nov	.9	.0	#	0	6.0	1992	24	6.0	2000	8	1980	26	1	1992	.4	.3	.2	@	.0	.2	.1	.0	.0
Dec	3.4	1.3	#	0	12.0	1987	14	18.5	1987	12	1987	14	1	1999	1.3	1.0	.3	.1	@	1.5	.4	.1	.1
Ann	12.0	3.5	N/A	N/A	16.0	Jan 1983	21	18.5	Dec 1987	17	Jan 1983	23	2	Jan 1983	5.1	3.7	1.3	.4	.1	5.1	1.7	.4	.1

+ 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	5/16	5/12	5/09	5/06	5/04	5/01	4/29	4/26	4/21
32	5/11	5/06	5/02	4/29	4/25	4/22	4/19	4/15	4/10
28	4/22	4/18	4/15	4/12	4/10	4/07	4/05	4/02	3/29
24	4/11	4/06	4/02	3/30	3/27	3/24	3/20	3/17	3/11
20	4/04	3/29	3/24	3/20	3/16	3/13	3/09	3/04	2/25
16	3/26	3/18	3/13	3/08	3/03	2/26	2/21	2/16	2/08

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	9/23	9/27	10/01	10/04	10/06	10/09	10/12	10/15	10/20
32	10/02	10/07	10/10	10/13	10/16	10/18	10/21	10/24	10/29
28	10/15	10/20	10/25	10/28	10/31	11/04	11/07	11/12	11/17
24	10/24	10/29	11/02	11/05	11/08	11/11	11/14	11/18	11/23
20	11/02	11/08	11/11	11/15	11/18	11/21	11/24	11/28	12/03
16	11/08	11/14	11/19	11/24	11/28	12/02	12/06	12/11	12/18

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	173	167	162	158	155	151	148	143	137
32	192	185	180	176	172	169	164	160	153
28	224	217	212	208	204	200	196	190	183
24	245	238	233	229	226	222	218	213	207
20	271	262	256	251	246	241	235	229	220
16	299	289	281	275	269	263	256	249	239

***** 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	943	733	596	338	121	14	1	3	64	277	642	912	4644
60	788	593	441	213	52	2	0	0	20	148	494	757	3508
57	695	509	351	152	27	0	0	0	8	89	408	664	2903
55	633	453	292	117	16	0	0	0	4	59	353	602	2529
50	483	324	164	51	3	0	0	0	0	17	229	450	1721
32	83	32	1	0	0	0	0	0	0	0	13	61	190

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	162	222	429	663	978	1218	1361	1300	1053	752	361	172	8671
55	0	0	7	89	282	528	648	587	367	98	11	0	2617
57	0	0	3	64	231	468	586	525	311	65	6	0	2259
60	0	0	1	36	163	380	493	432	233	32	1	0	1771
65	0	0	0	11	76	242	339	280	127	6	0	0	1081
70	0	0	0	2	26	129	195	145	56	1	0	0	554

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	61	124	257	464	756	1001	1127	1071	835	536	204	70	61	185	442	906	1662	2663	3790	4861	5696	6232	6436	6506
45	21	59	149	326	602	851	972	916	686	390	112	25	21	80	229	555	1157	2008	2980	3896	4582	4972	5084	5109
50	1	21	70	206	450	701	817	761	537	255	48	2	1	22	92	298	748	1449	2266	3027	3564	3819	3867	3869
55	0	2	22	110	309	551	662	606	396	142	12	0	0	2	24	134	443	994	1656	2262	2658	2800	2812	2812
60	0	0	1	45	181	405	508	451	263	62	0	0	0	0	1	46	227	632	1140	1591	1854	1916	1916	1916
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	94	143	234	340	482	629	729	699	531	366	181	99	94	237	471	811	1293	1922	2651	3350	3881	4247	4428	4527

(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