

Climatography of the United States No. 20

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

Station: DAINGERFIELD 9 S, TX

1971-2000

COOP ID: 412225

Climate Division: TX 4

NWS Call Sign:

Elevation: 300 Feet

Lat: 32°55N

Lon: 94°43W

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	55.9	33.7	44.8	82+	1975	27	52.0	1990	4	1962	10	32.9	1978	633	0	.0	.0	22.3	.6	12.1	.0
Feb	61.3	37.3	49.3	91	1996	22	56.5	1976	9+	1996	5	37.1	1978	447	8	.0	@	23.6	.5	6.8	.0
Mar	69.3	44.8	57.1	92+	1995	24	62.7	1974	17	1980	2	51.0	1978	259	13	.0	.1	30.0	@	1.8	.0
Apr	76.4	52.0	64.2	94+	1987	20	69.5	1981	32	1975	3	59.1	1983	91	67	.0	.8	30.0	.0	@	.0
May	83.9	61.6	72.8	100	1998	31	77.3	1996	39	1961	1	68.7	1976	9	248	@	5.4	31.0	.0	.0	.0
Jun	90.8	68.7	79.8	105	1979	18	85.2	1998	54+	1972	1	76.6	1974	0	443	.8	19.9	30.0	.0	.0	.0
Jul	95.0	72.2	83.6	107+	1998	28	90.8	1998	59	1967	15	80.8	1989	0	577	4.6	27.3	31.0	.0	.0	.0
Aug	95.1	71.1	83.1	112	1998	4	87.7	2000	56	1986	29	78.9	1992	0	561	6.4	26.9	31.0	.0	.0	.0
Sep	88.5	65.4	77.0	111	2000	2	81.8	1998	44+	1983	22	70.1	1974	2	360	1.2	15.7	30.0	.0	.0	.0
Oct	78.7	54.6	66.7	98+	1975	13	70.0	1971	26	1993	31	59.8	1976	55	106	.0	2.5	31.0	.0	.1	.0
Nov	66.6	44.1	55.4	95	1987	4	61.0	1973	17	1976	29	48.8	1972	305	16	.0	@	28.4	.0	2.4	.0
Dec	58.7	36.8	47.8	82+	1995	15	56.8	1984	5	1983	25	36.9	1983	536	2	.0	.0	24.8	.5	9.1	.0
Ann	76.7	53.5	65.1	112	Aug 1998	4	90.8	Jul 1998	4	Jan 1962	10	32.9	Jan 1978	2337	2401	13.0	98.6	343.1	1.6	32.3	.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: 1948-2001

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

084-A

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Climate Division: TX 4

NWS Call Sign:

Elevation: 300 Feet

Lat: 32°55N

Lon: 94°43W

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	3.54	3.50	3.05	1960	14	8.22	1990	.20	1971	9.2	5.8	2.4	.9	.64	.95	1.47	1.96	2.45	2.98	3.59	4.32	5.30	6.87	8.37
Feb	3.35	3.27	4.83	2001	16	7.36	1997	.16	1999	7.6	5.5	2.5	1.0	.56	.85	1.34	1.80	2.27	2.78	3.37	4.09	5.04	6.58	8.05
Mar	4.64	4.40	4.02	1976	8	9.54	1973	1.06	1986	8.8	6.2	3.0	1.5	1.76	2.19	2.81	3.33	3.81	4.31	4.85	5.48	6.28	7.50	8.62
Apr	4.32	3.72	7.48	1966	23	12.43	1973	.34	1987	7.9	5.9	2.6	1.5	.77	1.15	1.78	2.37	2.97	3.63	4.37	5.27	6.47	8.40	10.24
May	4.43	4.36	5.42	1981	16	12.02	1981	.37	1988	8.6	5.8	2.9	1.2	.74	1.13	1.77	2.38	3.01	3.69	4.46	5.41	6.67	8.71	10.66
Jun	4.24	4.05	5.98	1992	29	11.84	1992	.31	1971	7.6	5.5	2.8	1.7	.83	1.21	1.84	2.41	2.99	3.61	4.31	5.16	6.29	8.09	9.80
Jul	2.98	2.47	4.65	1958	6	12.15	1971	.00	1993	5.7	4.2	1.7	.9	.17	.45	.90	1.34	1.81	2.33	2.93	3.68	4.69	6.37	8.00
Aug	2.39	2.10	3.22	1974	30	6.69	1996	.17	1985	6.2	4.3	1.6	.7	.41	.62	.96	1.29	1.63	1.99	2.41	2.91	3.59	4.68	5.72
Sep	3.29	2.69	5.19	2000	25	7.49	1998	.14	1982	6.4	4.1	1.9	1.0	.31	.55	.99	1.45	1.95	2.51	3.18	4.01	5.15	7.06	8.92
Oct	4.35	3.94	3.85	1981	14	10.78	1981	.62	1995	7.1	5.1	2.8	1.5	.78	1.16	1.80	2.39	3.00	3.65	4.40	5.30	6.50	8.44	10.29
Nov	4.84	5.30	6.29	1969	18	10.96	2000	.45	1999	8.3	6.0	3.3	1.9	1.03	1.47	2.18	2.83	3.48	4.17	4.95	5.88	7.12	9.09	10.96
Dec	4.39	3.90	3.89	1982	3	12.03	1987	.14	1981	8.4	5.6	3.0	1.5	.79	1.18	1.82	2.42	3.03	3.69	4.44	5.36	6.57	8.52	10.39
Ann	46.76	44.58	7.48	Apr 1966	23	12.43	Apr 1973	.00	Jul 1993	91.8	64.0	30.5	15.3	32.79	35.48	38.93	41.56	43.90	46.16	48.50	51.09	54.23	58.80	62.75

+ 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

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Station: DAINGERFIELD 9 S, TX

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Climate Division: TX 4

NWS Call Sign:

Elevation: 300 Feet

Lat: 32°55N

Lon: 94°43W

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	.2	.0	#	0	3.0	2000	28	3.0	2000	3	2000	28	#+	2000	.1	.1	.1	.0	.0	.1	@	.0	.0
Feb	#	.0	#	0	#	1998	20	#+	1998	#	1998	20	#	1998	.0	.0	.0	.0	.0	.0	.0	.0	.0
Mar	#	.0	#	0	#	1971	3	#	1971	#	1986	1	#	1986	.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	.1	1997	15	.1	1997	#	1993	26	#	1993	.1	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.4	.0	0	0	6.5	1983	16	6.5	1983	0	0	0	0	0	.1	.1	.1	.1	.0	.0	.0	.0	.0
Ann	.6	.0	N/A	N/A	6.5	Dec 1983	16	6.5	Dec 1983	3	Jan 2000	28	#+	Jan 2000	.3	.2	.2	.1	.0	.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

Complete documentation available from:

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1971-2000**

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Climate Division: TX 4

NWS Call Sign:

Elevation: 300 Feet

Lat: 32° 55N

Lon: 94° 43W

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	4/12	4/06	4/01	3/28	3/25	3/21	3/18	3/13	3/07
32	3/26	3/18	3/13	3/08	3/03	2/27	2/22	2/17	2/09
28	3/14	3/05	2/27	2/22	2/17	2/12	2/06	1/31	1/23
24	3/04	2/21	2/14	2/07	1/31	1/25	1/17	1/08	12/21
20	2/16	2/07	1/31	1/26	1/20	1/13	1/04	0/00	0/00
16	2/07	1/28	1/19	1/09	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	11/01	11/05	11/08	11/11	11/14	11/17	11/20	11/25
32	11/02	11/09	11/14	11/18	11/22	11/26	11/30	12/05	12/12
28	11/14	11/21	11/26	11/30	12/04	12/07	12/11	12/16	12/23
24	11/29	12/07	12/12	12/17	12/21	12/26	12/31	1/07	1/19
20	12/11	12/19	12/25	12/30	1/05	1/11	1/21	0/00	0/00
16	12/27	1/06	1/14	1/25	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	255	246	240	235	230	225	220	214	205
32	292	282	275	268	263	257	251	243	233
28	319	309	302	295	289	283	277	269	259
24	>365	>365	345	331	322	314	306	297	285
20	>365	>365	>365	>365	364	344	332	322	308
16	>365	>365	>365	>365	>365	>365	>365	363	339

* 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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COOP ID: 412225

Climate Division: TX 4 NWS Call Sign: Elevation: 300 Feet Lat: 32°55N Lon: 94°43W

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	633	447	259	91	9	0	0	0	2	55	305	536	2337
60	489	320	142	30	1	0	0	0	0	15	189	393	1579
57	407	253	91	12	0	0	0	0	0	6	134	312	1215
55	356	213	64	6	0	0	0	0	0	3	103	263	1008
50	246	132	21	0	0	0	0	0	0	0	47	163	609
32	26	6	0	0	0	0	0	0	0	0	0	6	38

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	423	491	777	966	1262	1433	1600	1584	1348	1074	702	495	12155
55	40	54	128	282	549	743	887	871	658	364	115	39	4730
57	29	38	93	228	487	683	825	809	598	305	86	26	4207
60	18	21	51	156	395	593	732	716	508	222	50	14	3476
65	0	8	13	67	248	443	577	561	360	106	16	2	2401
70	0	0	1	19	126	293	422	406	223	35	3	0	1528

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	261	364	599	784	1049	1225	1384	1374	1142	866	511	313	261	625	1224	2008	3057	4282	5666	7040	8182	9048	9559	9872
45	159	251	450	634	894	1075	1229	1219	992	711	374	194	159	410	860	1494	2388	3463	4692	5911	6903	7614	7988	8182
50	85	150	310	486	739	925	1074	1064	842	556	248	108	85	235	545	1031	1770	2695	3769	4833	5675	6231	6479	6587
55	36	79	193	343	584	775	919	909	692	404	149	52	36	115	308	651	1235	2010	2929	3838	4530	4934	5083	5135
60	15	35	101	214	430	625	764	754	543	269	80	21	15	50	151	365	795	1420	2184	2938	3481	3750	3830	3851
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	161	227	374	505	721	846	933	923	779	568	308	186	161	388	762	1267	1988	2834	3767	4690	5469	6037	6345	6531

(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