

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: GREENVILLE KGV L RADIO, TX

1971-2000

COOP ID: 413734

Climate Division: TX 3

NWS Call Sign:

Elevation: 545 Feet

Lat: 33°10N

Lon: 96°06W

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	52.1	31.2	41.7	90	1911	31	48.6	1990	-4	1930	18	32.0	1978	725	0	.0	.0	18.5	2.2	19.0	.0
Feb	57.7	35.2	46.5	95	1918	25	54.3	2000	0+	1951	2	34.5	1978	523	5	.0	.1	20.5	1.3	11.9	.0
Mar	65.8	42.5	54.2	95	1916	21	59.7	1974	8+	1943	4	49.8	1975	342	6	.0	@	28.7	.2	5.1	.0
Apr	73.5	50.3	61.9	101	1930	7	66.8	1981	26	1936	3	56.8	1983	132	39	.0	.3	29.9	.0	.5	.0
May	80.6	59.9	70.3	104	1927	27	75.6	1996	34+	1979	21	65.7	1976	24	186	.0	1.8	31.0	.0	.0	.0
Jun	88.6	67.9	78.3	109+	1936	22	82.4	1998	48	1988	11	74.3	1983	0	398	.3	14.9	30.0	.0	.0	.0
Jul	93.3	72.1	82.7	113	1934	24	88.5	1998	55+	1972	6	78.4	1976	0	548	3.5	25.7	31.0	.0	.0	.0
Aug	93.4	71.2	82.3	116	1936	10	86.5	2000	52	1967	13	77.5	1992	0	536	4.7	25.4	31.0	.0	.0	.0
Sep	86.4	64.7	75.6	109+	2000	5	81.5	1998	36+	1942	28	67.5	1974	6	324	.8	12.6	30.0	.0	.0	.0
Oct	76.5	53.3	64.9	102	1938	1	67.6	1998	21	1917	30	57.5	1976	80	77	.0	1.9	30.8	.0	.2	.0
Nov	63.7	42.5	53.1	90	1904	17	59.9	1999	13	1976	29	45.8	1976	368	12	.0	.0	26.6	.1	5.9	.0
Dec	54.7	34.1	44.4	87	1955	25	51.1	1984	-3+	1989	24	33.0	1983	639	0	.0	.0	21.5	1.2	15.7	.1
Ann	73.9	52.1	63.0	116	Aug 1936	10	88.5	Jul 1998	-4	Jan 1930	18	32.0	Jan 1978	2839	2131	9.3	82.7	329.5	5.0	58.3	.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/normal/usnormals.html

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1900-2001

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

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COOP ID: 413734

Climate Division: TX 3

NWS Call Sign:

Elevation: 545 Feet Lat: 33°10N

Lon: 96°06W

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	2.51	2.18	4.00	1938	22	5.50	1998	.03	1986	7.3	4.8	1.8	.6	.32	.52	.88	1.23	1.60	2.00	2.48	3.06	3.85	5.14	6.40
Feb	3.16	2.95	4.00	1999	7	9.34	1997	.04	1995	6.4	4.6	2.0	1.0	.40	.65	1.10	1.54	2.01	2.52	3.12	3.85	4.85	6.49	8.08
Mar	3.67	3.48	3.80	1914	31	8.01	1977	.55	1971	8.2	5.9	2.2	1.0	1.03	1.37	1.90	2.36	2.81	3.28	3.80	4.42	5.22	6.47	7.64
Apr	3.79	3.27	4.80	1974	22	8.74	1991	.27	1987	7.5	4.8	2.3	1.0	.71	1.05	1.61	2.12	2.64	3.20	3.84	4.61	5.64	7.28	8.85
May	5.47	5.11	6.32	1982	13	11.68	1982	.56	1988	9.5	6.9	3.1	1.8	1.39	1.91	2.70	3.41	4.10	4.83	5.64	6.61	7.87	9.86	11.72
Jun	4.03	3.69	4.85	1951	3	9.20	2000	.11	1971	6.8	5.2	2.7	1.3	.62	.96	1.55	2.10	2.68	3.31	4.04	4.92	6.11	8.04	9.90
Jul	2.96	2.31	6.04	1989	15	8.12	1992	.12	2000	5.5	4.2	1.7	.8	.24	.44	.83	1.24	1.69	2.21	2.82	3.60	4.68	6.49	8.27
Aug	2.18	1.95	5.00	1915	18	6.20	1977	.00+	2000	4.9	3.2	1.6	.7	.00	.24	.63	.98	1.34	1.73	2.18	2.72	3.46	4.67	5.84
Sep	3.56	2.94	6.95	1936	27	11.46	1973	.57	1975	6.5	4.8	2.4	1.2	.72	1.04	1.57	2.04	2.53	3.04	3.63	4.33	5.26	6.76	8.17
Oct	4.91	4.46	5.40	1998	3	12.32	1981	.07	1978	7.2	5.5	2.9	1.7	.44	.79	1.45	2.13	2.87	3.72	4.73	5.99	7.72	10.61	13.45
Nov	3.98	3.91	5.60	1946	3	12.70	1996	.00	1995	7.1	5.0	2.6	1.3	.45	.93	1.60	2.17	2.75	3.37	4.07	4.91	6.03	7.81	9.51
Dec	3.48	2.93	5.62	1998	4	10.86	1998	.19	1981	7.0	4.7	2.3	1.1	.56	.86	1.37	1.85	2.34	2.88	3.50	4.25	5.26	6.89	8.46
Ann	43.70	44.19	6.95	Sep 1936	27	12.70	Nov 1996	.00+	Aug 2000	83.9	59.6	27.6	13.5	31.42	33.80	36.86	39.17	41.22	43.21	45.25	47.51	50.25	54.21	57.63

+ 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: 1900-2001

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

Complete documentation available from:
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Station: GREENVILLE KGV L RADIO, TX

COOP ID: 413734

Climate Division: TX 3

NWS Call Sign:

Elevation: 545 Feet

Lat: 33°10N

Lon: 96°06W

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	1.1	.0	#	0	4.0	1977	31	10.5	1978	5	1978	23	1	1978	.7	.4	.1	.0	.0	1.1	.2	.1	.0
Feb	1.5	.0	#	0	5.0	1975	23	15.5	1978	9	1978	19	2	1978	1.0	.6	.2	.1	.0	1.1	.4	.1	.0
Mar	.1	.0	#	0	1.0	1989	5	2.0	1989	2	1989	6	#+	1989	.2	.1	.0	.0	.0	.2	.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	.2	.0	#	0	2.0	1976	13	3.5	1976	2	1976	13	#+	1997	.1	.1	.0	.0	.0	.1	.0	.0	.0
Dec	.3	.0	#	0	4.0	1983	16	4.0	1983	4	1983	16	1	1983	.2	.1	@	.0	.0	.7	.1	.0	.0
Ann	3.2	.0	N/A	N/A	5.0	Feb 1975	23	15.5	Feb 1978	9	Feb 1978	19	2	Feb 1978	2.2	1.3	.3	.1	.0	3.2	.7	.2	.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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COOP ID: 413734

Climate Division: TX 3

NWS Call Sign:

Elevation: 545 Feet

Lat: 33° 10N

Lon: 96° 06W

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	4/22	4/15	4/11	4/07	4/04	3/31	3/27	3/23	3/17
32	4/08	4/02	3/29	3/26	3/23	3/19	3/16	3/12	3/06
28	3/31	3/24	3/19	3/14	3/10	3/06	3/01	2/24	2/17
24	3/14	3/06	3/01	2/24	2/20	2/16	2/11	2/06	1/30
20	3/01	2/21	2/16	2/11	2/06	2/01	1/26	1/17	0/00
16	2/21	2/11	2/03	1/26	1/19	1/11	12/29	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	10/15	10/21	10/25	10/29	11/01	11/05	11/08	11/12	11/18
32	10/28	11/03	11/07	11/10	11/13	11/16	11/20	11/24	11/30
28	11/03	11/10	11/15	11/19	11/23	11/27	12/01	12/06	12/13
24	11/13	11/23	11/30	12/06	12/11	12/17	12/23	12/30	1/09
20	11/26	12/05	12/11	12/17	12/23	12/29	1/05	1/15	0/00
16	12/08	12/16	12/23	12/28	1/03	1/11	1/24	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	240	230	223	217	211	205	199	192	182
32	259	250	245	240	235	230	225	219	211
28	289	278	270	264	257	251	244	236	225
24	327	314	305	298	291	284	277	269	258
20	>365	>365	>365	333	321	312	304	295	283
16	>365	>365	>365	>365	361	339	326	315	300

* 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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No. 20
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Station: GREENVILLE KGV L RADIO, TX

COOP ID: 413734

Climate Division: TX 3 NWS Call Sign: Elevation: 545 Feet Lat: 33°10N Lon: 96°06W

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	725	523	342	132	24	0	0	0	6	80	368	639	2839
60	575	394	206	52	4	0	0	0	0	26	243	491	1991
57	489	321	142	24	1	0	0	0	0	11	182	406	1576
55	433	276	106	12	0	0	0	0	0	6	146	351	1330
50	303	182	44	1	0	0	0	0	0	1	77	232	840
32	35	13	0	0	0	0	0	0	0	0	1	16	65

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	333	419	687	897	1185	1388	1571	1559	1308	1020	634	401	11402
55	18	37	80	219	472	698	858	846	618	312	90	23	4271
57	13	26	53	171	411	638	796	784	558	256	65	15	3786
60	5	15	25	109	321	548	703	691	468	178	37	8	3108
65	0	5	6	39	186	398	548	536	324	77	12	0	2131
70	0	0	0	8	85	253	393	383	196	23	1	0	1342

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	161	257	460	671	948	1160	1332	1315	1072	771	405	204	161	418	878	1549	2497	3657	4989	6304	7376	8147	8552	8756
45	85	162	320	521	793	1010	1177	1160	922	616	279	115	85	247	567	1088	1881	2891	4068	5228	6150	6766	7045	7160
50	36	87	201	373	638	860	1022	1005	772	468	174	55	36	123	324	697	1335	2195	3217	4222	4994	5462	5636	5691
55	12	38	113	243	483	710	867	850	623	322	95	23	12	50	163	406	889	1599	2466	3316	3939	4261	4356	4379
60	0	13	46	131	332	560	712	695	476	198	42	7	0	13	59	190	522	1082	1794	2489	2965	3163	3205	3212
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	114	170	286	418	636	797	898	878	721	499	251	137	114	284	570	988	1624	2421	3319	4197	4918	5417	5668	5805

(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