

**U. S. DEPARTMENT OF COMMERCE**  
**Environmental Science Services Administration**

In cooperation with  
 Cotton Economic Research and  
 Bureau of Business Research of  
 The University of Texas at Austin

CLIMATOGRAPHY OF THE UNITED STATES NO. 20-41

LATITUDE 32° 27' N  
 LONGITUDE 97° 48' W  
 ELEV. (GROUND) 740 ft.

**CLIMATOLOGICAL SUMMARY**

STATION GRANBURY, TEXAS

MEANS AND EXTREMES FOR PERIOD 1948-1967

Month	Temperature (°F)								Mean degree days	Precipitation Totals (Inches)						Mean number of days					Month	
	Means			Extremes						Mean	Greatest daily	Year	Snow, Sleet				Precip. .10 inch or more	Temperatures				
	Daily maximum	Daily minimum	Monthly	Record highest	Year	Record lowest	Year	Mean					Maximum monthly	Year	Greatest Depth	Year		90° and above	32° and below	32° and below		0° and below
(a)	17	17	17	17		17		12	19	19		19	19		11		12	12	12	12		
Jan	57.6	32.8	45.2	84	1957+	-6	1949	620	1.85	2.75	1961	0.6	3.5	1956	12	1964	3	0	1	17	0	Jan
Feb	62.2	37.2	49.7	89	1956+	8	1951	451	1.97	3.20	1948	0.6	4.3	1951	1	1963	4	0	*	11	0	Feb
Mar	70.1	43.8	57.0	96	1956	10	1948	296	1.68	1.93	1949	0.1	1.0	1962	1	1962	3	1	0	6	0	Mar
Apr	79.7	54.8	67.3	101	1963	28	1962	69	3.92	4.50	1954	0	0	0	0	0	7	3	0	*	0	Apr
May	85.4	62.1	73.8	105	1967	39	1954	10	4.87	5.00	1955	0	0	0	0	0	5	10	0	0	0	May
Jun	93.0	69.7	81.4	107	1948	49	1964	*	3.38	4.25	1961	0	0	0	0	0	4	23	0	0	0	Jun
Jul	97.3	73.1	85.2	110	1964	61	1967	0	1.82	3.70	1950	0	0	0	0	0	3	29	0	0	0	Jul
Aug	97.5	71.7	84.6	110	1964	53	1967	0	1.81	2.82	1959	0	0	0	0	0	3	29	0	0	0	Aug
Sep	90.2	65.7	77.9	107	1953	40	1948	1	2.87	5.15	1955	0	0	0	0	0	5	17	0	0	0	Sep
Oct	81.1	54.8	68.0	98	1963+	25	1948	58	3.15	6.80	1959	0	0	0	0	0	4	4	0	*	5	Oct
Nov	69.8	43.4	56.6	90	1948	15	1948	278	2.06	1.77	1964	0	0	0	0	0	4	0	0	5	0	Nov
Dec	61.2	36.2	48.7	86	1954	11	1963+	512	1.52	2.24	1956	0.1	2.5	1963	2	1963	4	0	*	13	0	Dec
<b>Year</b>	<b>78.8</b>	<b>53.8</b>	<b>66.3</b>	<b>110</b>	<b>Aug. 1964+</b>	<b>-6</b>	<b>Jan. 1949</b>	<b>2295</b>	<b>30.90</b>	<b>6.80</b>	<b>Oct. 1959</b>	<b>1.4</b>	<b>4.3</b>	<b>Feb. 1951</b>	<b>12</b>	<b>Jan. 1964</b>	<b>49</b>	<b>116</b>	<b>1</b>	<b>52</b>	<b>0</b>	<b>Year</b>

(a) Average length of record, years.

+ Also on earlier dates, months, or years.

T Trace, an amount too small to measure.

\* Less than one half.

\*\* Base 65°F

THE CLIMATE OF GRANBURY, TEXAS

Located on a bend of the Brazos River, Granbury was first settled in 1854. It is the county seat and farm market center for Hood County. Toys and clothing are manufactured here. Tourism and feed processing supply additional income. Hood County is rolling and hilly, drained by the Brazos River. Elevations range from 600 to 1,200 feet above sea level. Seventy percent of farm income is from cattle, sheep, and dairying. Crops include small grains, peanuts, fruits, and nuts. Hunting and fishing are favorite recreations. Acton State Park, six miles east of Granbury, is the burial site of Elizabeth Crockett, second wife of Davy Crockett. DeCordova Bend Dam is under construction on the Brazos River in the southeastern corner of Hood County.

Granbury has a subtropical climate with dry winters and hot humid summers. Tropical maritime air masses predominate throughout the spring, summer, and fall months. Polar, and occasionally arctic air masses move through the area frequently during the winter and provide extreme variations in temperature, characteristic of a continental type climate. Temperature extremes have ranged from -6°F, which occurred January 31, 1949, to 110°F, which occurred July 25, August 6, and August 11, 1964. Mean annual total precipitation is 30.90 inches. The wettest year of record was 1949 when 50.26 inches fell, while the driest year of record was 1956 with a total of 20.35 inches. Approximately 71 percent of the mean annual precipitation falls during the warm season, April through October. A primary rainfall peak occurs in May with a secondary peak occurring in October. December is the driest month. Prevailing winds are southerly throughout all months of the year. The relative humidity is fairly uniform throughout the year, although slightly higher during the summer than in other seasons. Mean annual relative humidity is 79 percent at 6:00 a.m., 53 percent at noon, and 48 percent at 6:00 p.m., Central Standard Time. The area receives about 55 percent of the total possible sunshine in winter and about 75 percent of the total possible in summer.

Winter: Granbury experiences frequent surges of cold continental air in winter. Cold fronts moving down from the High Plains are often accompanied by strong, gusty, northerly winds and sudden drops in temperature. Cold spells are of short duration, rarely lasting longer than 48 hours before a rapid warming trend begins. Winters are mild, with only about one or two days during the season when the maximum fails to exceed 32°F. Freezing temperatures occur on less than one-half the nights during the season. Precipitation is closely associated with frontal systems and may fall as rain, freezing rain, sleet or snow. Rare, heavy snows bias the snowfall data with the result that the arithmetic mean is a poor estimate of expected snowfall. In most years, snowfall is of little consequence.

Summer: Daytime temperatures are hot, particularly in July and August. The highest temperatures of summer are associated generally with fair skies, light winds and low humidities. There is little variety in the day-to-day weather pattern in July and August. Refrigerated air-conditioning is recommended for maximum comfort indoors.

Spring and fall are very pleasant seasons at Granbury. Cloudiness and showers are more frequent in the spring than in the fall. Average wind speeds are stronger in the spring also.

The growing season (freeze free period) in the Granbury area averages 232 days. The mean dates of the last freeze in the spring and the first in the fall are March 26 and November 13, respectively. Mean annual lake evaporation is 60 inches.

Thunderstorms occur on an average of 44 days each year. These are most frequent in the spring. Occasionally, thunderstorms may be accompanied by damaging hail or high winds.

CRANBURY, TEXAS

Average Temperature (°F)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1948	43.1	46.0	54.3	59.9	73.2	83.2	84.3	84.3	74.6	65.7	54.7	50.7	64.9
1949	39.5	48.4	57.0	62.4	74.3	79.3	84.6	84.0	76.7	66.8	50.6	51.2	65.4
1950	51.3	54.6	57.1	64.9	73.8	80.3	81.6	82.9	75.1	73.0	57.3	47.7	66.6
1951	46.8	50.4	57.6	-	-	-	-	-	-	-	-	-	-
1952	-	-	62.9	64.3	72.3	86.4	84.4	83.8	79.4	70.1	54.9	46.9	-
1953	48.0	57.3	57.5	72.2	70.1	83.5	89.9	83.1	82.9	70.8	55.9	51.1	-
1954	47.3	49.2	59.6	70.8	76.3	78.1	85.2	84.0	80.5	67.8	55.9	48.2	66.9
1955	45.4	50.1	59.3	64.8	76.7	83.4	87.4	86.9	80.3	71.6	53.5	51.3	67.6
1956	45.9	55.1	54.6	63.6	71.5	79.5	86.5	86.1	75.8	63.2	52.8	53.1	65.6
1957	46.0	44.4	50.0	63.6	72.9	82.7	85.7	85.6	77.8	66.9	57.5	45.6	64.9
1958	44.9	50.4	58.2	64.4	76.0	81.1	82.6	84.5	79.4	66.3	50.2	51.3	65.8
1959	45.7	44.5	50.4	67.0	71.9	80.9	80.9	81.3	77.1	67.6	53.4	44.2	-
1960	41.3	41.3	53.6	64.4	73.9	78.0	80.9	81.3	77.1	67.6	53.4	47.2	-
1961	41.2	49.2	62.0	71.8	75.2	81.7	87.4	86.5	78.7	72.8	59.3	41.8	67.3
1962	45.2	45.7	58.5	69.6	75.6	81.6	87.6	87.3	78.2	64.9	58.9	49.9	67.0
1963	50.2	46.9	49.0	69.9	73.9	80.8	86.0	84.0	79.8	65.6	62.8	52.9	66.8
1964	41.9	47.8	59.0	66.9	71.9	79.2	85.6	81.4	75.2	59.2	60.6	46.8	65.1
1965	49.6	49.6	64.6	73.1	73.0	82.4	83.5	83.3	74.6	57.2	56.4	47.4	67.1

CRANBURY, TEXAS

Total Precipitation (Inches)

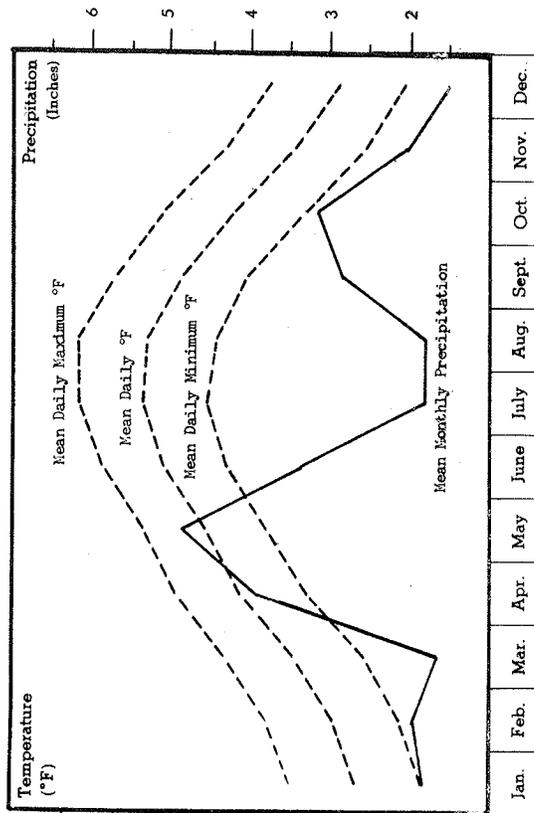
Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1948	-	5.20	1.45	1.27	5.93	5.64	1.34	2.56	1.23	0.94	0.64	0.83	-
1949	4.70	4.24	4.38	5.00	12.42	5.83	0.28	1.63	1.24	8.35	0	2.19	50.26
1950	3.66	2.91	0.31	2.80	4.69	2.05	7.97	1.13	7.62	0.19	0	0	34.33
1951	-	-	0.87	1.78	4.37	8.39	1.10	1.41	1.55	2.23	0.52	0.05	-
1952	0.81	1.08	2.47	3.19	9.04	0.22	0.33	0.33	1.79	0.17	5.29	2.55	29.11
1953	0.24	0.52	2.77	3.19	3.64	0.51	3.48	2.41	1.35	4.89	2.13	0.56	25.69
1954	0.75	0.32	0.68	7.47	3.15	2.03	1.44	0.86	1.22	1.34	3.27	0.95	23.48
1955	1.13	1.67	0.93	7.47	7.47	3.34	1.43	1.09	6.92	0.27	0.85	0	27.23
1956	1.00	1.95	0.05	2.12	5.40	0.13	0.08	1.40	0.05	3.23	1.51	3.45	20.55
1957	1.25	1.88	3.83	10.66	10.36	1.89	0.04	0	3.74	6.87	4.82	1.71	47.05
1958	2.76	1.45	3.13	5.82	1.23	2.54	2.82	3.10	3.84	2.11	2.42	1.54	32.76
1959	0.09	1.53	0.33	2.79	1.37	6.64	2.17	3.87	2.96	10.50	1.39	3.15	36.79
1960	1.77	1.62	0.27	3.54	3.80	2.57	2.43	1.69	1.44	2.52	0.25	3.87	25.77
1961	5.51	2.95	2.48	0.94	1.64	9.92	3.00	0.20	3.22	9.08	2.57	1.49	43.00
1962	0.37	1.04	1.45	3.75	0	-	-	-	-	-	1.98	0.68	23.59
1963	0.42	0.02	0.25	3.95	7.35	1.35	0.53	2.74	1.49	1.20	3.25	1.04	23.59
1964	3.95	1.26	2.85	2.15	1.22	1.06	0.80	2.93	5.34	1.40	5.24	0.69	28.89
1965	2.97	4.42	0.85	2.05	7.01	2.92	0.38	0.44	2.09	1.07	2.15	1.90	28.25
1966	1.45	2.94	2.22	8.79	2.62	6.40	2.10	4.78	2.57	1.57	0.52	1.35	37.11
1967	0.50	0.41	2.02	3.23	4.68	0.70	2.81	0.76	4.94	2.11	2.32	2.39	26.87

STATION HISTORY

A climatological station was established at Cranbury on December 1, 1943. The station has been relocated numerous times but has remained within a radius of 1.5 miles from the Cranbury Post Office. Dr. John G. Little, the present observer was appointed November 6, 1962, and the station moved to his clinic at 310 West Bluff Street, 0.2 mile west-southwest of the post office. Station equipment consists of a cotton region shelter, maximum and minimum thermometers, and a standard 8-inch rain gage. Temperature and precipitation data are published monthly in CLIMATOLOGICAL DATA-TEXAS. Station index number: 41-3673-02.

Weather Bureau State Climatologist  
Environmental Science Services Administration  
3600 Manor Road, Austin, Texas 78723  
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Monthly Temperatures and Precipitation



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