

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

CLIMATOLOGICAL SUMMARY

STATION NEW BRAUNFELS, TEXAS

LATITUDE 29° 42' N
LONGITUDE 98° 07' W
ELEV. (GROUND) 718 ft.

MEANS AND EXTREMES FOR PERIOD 1938-1967

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	
																							Max.
(a)	30	30	30	30		30		12	30	30		30	30	12		12	12	12	12	12			
Jan	63.6	39.2	51.4	88	1949	2	1949	492	1.88	2.60	1938	0.4	4.0	1949	0	1966	3	0	*	10	0	0	Jan
Feb	68.4	43.5	56.0	95	1940	8	1951	330	2.66	2.48	1949	0.2	3.5	1966	3		5	*	0	6	0	0	Feb
Mar	76.2	49.1	62.7	97	1946	20	1943	182	1.92	2.20	1946	T	T	1951	0		3	1	0	0	3	0	Mar
Apr	82.5	58.0	70.3	105	1951	31	1940	31	3.24	3.10	1953	0	0	0	0		4	4	0	0	0	0	Apr
May	88.1	65.0	76.6	103	1967	45	1960+	4	3.73	3.37	1957	0	0	0	0		4	11	0	0	0	0	May
Jun	94.1	71.3	82.7	107	1948	55	1964+	0	3.32	4.25	1946	0	0	0	0		3	27	0	0	0	0	Jun
Jul	97.2	72.8	85.0	110	1951	62	1967	0	1.83	5.45	1942	0	0	0	0		2	30	0	0	0	0	Jul
Aug	97.9	72.3	85.1	110	1952+	60	1961	0	2.40	3.80	1956	0	0	0	0		4	29	0	0	0	0	Aug
Sep	91.9	67.8	79.9	108	1951	43	1942	1	3.15	5.11	1952	0	0	0	0		5	21	0	0	0	0	Sep
Oct	84.3	58.7	71.5	100	1938	35	1945	29	3.43	6.65	1959	0	0	0	0		4	5	0	0	0	0	Oct
Nov	73.5	48.2	60.9	93	1947	21	1959+	146	2.30	2.60	1974	T	T	1957	0		4	0	0	1	0	0	Nov
Dec	66.7	41.4	54.1	91	1955+	16	1950	415	2.15	4.43	1965	T	T	1964+	0		3	0	0	7	0	0	Dec
Year	82.0	57.3	69.7	110	Aug. 1952+	2	Jan. 1949	1630	32.61	6.65	Oct. 1959	0.4	4.0	Jan. 1949	3	Feb. 1966	44	128	*	27	0	0	Year

(a) Average length of record, years.

T Trace, an amount too small to measure.

** Base 65°F

+ Also on earlier dates, months, or years.

* Less than one half.

THE CLIMATE OF NEW BRAUNFELS, TEXAS

Located in South Central Texas between Austin and San Antonio, New Braunfels is surrounded by many of the major tourist attractions in the State. The town was established in 1845 on the Comal River by predominantly German settlers led by Prince Carl of Solms-Braunfels. Today, Wurst Week and Sausage Festival is held each fall in New Braunfels; a full week of festivities, crowded with traditional German feasts, dancing, and entertainment. Landa Park, in New Braunfels, is an exceptionally scenic city park located around the enormous springs heading the Comal River. Sixteen miles north of New Braunfels, on the Guadalupe River, is Canyon Dam and Reservoir, with three-quarter million acre-feet of water surrounded by lodges, campsites, and recreational facilities, all in scenic surroundings. Natural Bridge Caverns, one of the most beautiful and interesting caves in the United States is 17 miles northwest of New Braunfels. The scenic Texas Hill Country rises behind the city. Comal County is hilly to mountainous with elevations varying from 650 feet on the rolling coastal plain below the Balcones Escarpment to 1,700 feet in the Hill Country. Lime, crushed rock, gravel, tourism, and recreation are important to the county's economy. Eighty percent of farm income is from livestock and poultry. Nonfarm employment is supplied by textile mills, mineral plants, and clothing manufacturing. Many workers commute to jobs in San Antonio.

The climate of New Braunfels is humid subtropical with hot summers. Tropical maritime air masses predominate throughout the spring, summer, and fall months. Modified polar air masses take over during the winter months and provide a continental type of climate characterized by considerable variations in temperature. Mean annual total precipitation is 32.61 inches. Peak rainfall, the result of thundershowers, occurs in late spring with a secondary peak in early fall. The prevailing winds are southeasterly March through September and northerly October through February. However, south to southeasterly winds are frequent during the colder months. New Braunfels receives about 62 percent of the total possible sunshine annually. The mean annual relative humidity is 84 percent at 6:00 a.m., 54 percent at noon, and 52 percent at 6:00 p.m., Central Standard Time.

Winter: This season is not marked by any prolonged periods of cold weather but rather by short spans of 36 to 72 hours. The winter season is one of many changes. The weather fluctuates be-

tween warm and cold, clear or cloudy, wet and dry, as a wide variety of air masses move in and out of the area. Normally, winter temperatures are sufficiently mild as to cause little or no interference with outdoor work or recreation. While thundershowers and heavy rains have occurred in all months of the year, most of the winter precipitation occurs as light rain or drizzle. Considerable cloudiness usually persists through the morning hours, dissipating by noon, with clear to partly cloudy skies a high percentage of the time during the afternoon.

Spring: This is a very enjoyable season. March is the driest month of the year. Warm and cool spells of short duration follow each other in rapid succession. Thundershower activity increases significantly in April and reaches a peak during May. Considerable early morning cloudiness continues but dissipates more quickly than in winter.

Summer: This is a hot season. There are few days when the maximum temperature does not reach or exceed 90°F. Heavy thundershowers continue into June, but the months of July and August are hot and dry with little variation in the weather regime from day to day or week to week. Refrigerated type air-conditioning is recommended for maximum comfort indoors.

Fall: Warm weather continues through September and precipitation increases. The weather has greater variety in the fall than in summer. Daytime temperatures in October and November are mild and cool. Precipitation decreases significantly in November. This is the most delightful season of the year with long periods of uninterrupted fair weather and light winds.

The mean length of the growing season (freeze free period) in New Braunfels is 261 days. The mean date of the last 32° freeze in the spring and the first in the fall is March 11 and November 26, respectively. Because of differences in topography, significant departures from these mean values are likely to be found not only in the surrounding rural area but within the city limits of New Braunfels. The mean annual lake evaporation is 56 to 58 inches.

NEW BRAUNFELS, TEXAS

Average Temperature (°F)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1938	53.4	60.7	68.1	67.0	71.2	82.4	84.8	84.3	79.2	72.4	58.2	55.3	70.0
1939	52.8	54.4	65.2	71.2	79.3	83.0	85.5	83.6	81.2	73.1	58.3	56.7	70.5
1940	42.8	51.1	63.1	68.7	76.0	79.8	83.4	85.7	78.7	71.0	59.0	55.7	68.2
1941	55.8	52.4	56.9	68.0	75.4	80.4	84.3	84.4	81.0	75.2	59.7	56.1	69.1
1942	50.4	55.0	62.7	70.0	76.2	83.2	81.6	82.9	77.3	71.9	65.2	57.4	69.5
1943	53.0	61.4	60.6	73.6	78.4	82.2	84.1	86.4	76.4	69.2	58.8	51.8	69.7
1944	51.7	59.4	62.7	70.0	73.0	81.8	84.6	84.6	79.0	71.3	61.6	51.2	69.3
1945	53.4	57.0	68.7	68.4	76.1	84.0	85.0	85.6	81.2	69.1	65.4	52.8	69.6
1946	50.6	57.2	64.3	71.7	76.2	79.8	84.2	84.2	78.2	72.3	61.3	56.0	69.7
1947	49.7	50.2	58.6	70.0	76.2	81.1	84.8	85.0	82.1	78.9	61.5	55.3	69.6
1948	48.3	55.8	63.8	75.0	80.3	86.8	87.2	87.8	80.3	72.7	61.5	58.0	71.7
1949	51.0	59.9	65.1	67.6	80.3	83.6	86.4	85.5	82.7	78.4	64.3	56.8	71.4
1950	60.7	59.8	63.5	69.2	79.7	82.7	86.1	86.2	82.2	76.4	63.2	56.3	72.2
1951	54.6	57.4	66.1	71.9	78.2	84.3	89.2	89.2	82.5	76.6	66.2	56.3	70.5
1952	60.7	61.4	63.2	67.6	76.7	83.8	86.1	89.6	78.5	66.2	59.3	52.7	70.5
1953	-	-	69.2	69.0	76.1	81.9	85.6	84.9	79.3	71.7	59.3	51.3	-
1954	-	-	65.0	74.0	78.5	81.0	86.2	86.2	82.7	71.8	62.2	55.3	-
1955	54.1	56.1	65.0	70.4	78.3	83.9	85.1	84.6	80.4	73.7	59.8	58.1	70.8
1956	52.8	58.8	63.5	70.4	78.3	83.9	85.1	84.6	80.4	73.7	59.8	58.1	70.8
1957	55.0	63.1	63.0	67.3	75.9	80.7	86.0	86.1	77.6	-	20.8	56.2	-
1958	49.5	48.2	57.2	68.5	76.0	81.7	84.5	85.2	79.0	67.2	60.8	50.9	67.5
1959	49.2	54.0	60.2	65.5	74.0	80.7	81.9	82.2	81.6	70.8	-	-	-
1960	49.3	50.9	-	71.0	74.1	83.8	84.3	83.5	78.7	73.1	-	49.9	-
1961	47.9	56.6	-	-	-	-	80.7	80.7	78.9	68.7	57.2	52.6	-
1962	44.1	61.8	56.5	67.5	76.2	81.0	85.4	87.1	79.9	74.6	59.3	50.4	68.7
1963	43.5	51.7	63.6	72.1	76.3	83.2	85.2	85.1	80.5	73.3	61.0	44.5	68.3
1964	49.3	49.3	58.9	69.1	76.1	80.8	85.4	86.4	80.6	66.9	62.7	51.4	68.1
1965	53.8	50.4	55.5	73.3	75.4	83.1	85.0	82.7	80.1	68.5	65.8	55.4	69.1
1966	46.3	50.6	61.0	70.6	76.3	82.3	86.1	83.6	78.7	68.6	65.3	50.9	68.4
1967	50.3	51.0	65.1	75.1	75.7	83.6	83.4	81.9	74.7	65.9	57.7	48.2	67.7

STATION HISTORY

Temperature observations were made at New Braunfels from 1854 through 1859, and precipitation amounts were recorded for the period 1856 through 1859. Data for some months are missing from these early records. An official Climatological Station was established at New Braunfels in December 1868. The station was located three city blocks southeast of the present U.S. Post Office building. Radio Station KGB was designated the official observer on August 1, 1961; the equipment was moved to a site 1,000 feet south of the Post Office building, and about one-half mile west of the previous location. Equipment consists of a cotton region shelter, maximum and minimum thermometers, and a standard eight-inch rain gage. Data are published monthly in CLIMATOLOGICAL DATA-TEXAS. Station index number, 41-6276-07.

Weather Bureau State Climatologist
Environmental Science Services Administration
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Single copies of this summary are available without charge from the Bureau of Business Research, The University of Texas, Austin, Texas 78712. Quantity rates upon request.

NEW BRAUNFELS, TEXAS

Total Precipitation (Inches)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1938	4.12	1.61	2.39	8.81	5.20	0.75	2.22	0.29	0.65	0.20	0.97	1.11	28.32
1939	1.35	0.81	0.95	0.98	3.45	0.90	1.93	1.07	0.67	0.50	1.37	0.72	13.35
1940	0.90	2.95	1.57	3.62	3.45	9.69	1.04	1.00	1.43	3.74	4.50	4.02	38.11
1941	2.04	3.17	3.65	8.03	6.28	6.69	1.60	0.49	3.70	4.51	1.28	1.51	42.99
1942	0.46	2.92	0.65	3.63	2.87	2.21	10.44	3.61	6.49	1.15	1.06	0.57	42.08
1943	1.44	0.22	1.17	0.58	3.30	3.32	4.73	0	9.50	1.25	2.46	1.96	29.93
1944	6.24	3.22	4.03	1.58	8.93	1.68	0.22	3.94	1.34	0.46	6.48	5.02	43.14
1945	3.71	5.33	6.27	2.41	0.89	3.29	2.41	1.41	2.11	8.45	1.44	1.66	39.38
1946	1.86	2.58	3.96	2.02	5.75	10.88	1.89	1.41	8.33	3.47	2.70	3.21	56.60
1947	4.82	0.12	2.00	1.73	1.32	0.71	1.19	4.54	0.74	0	1.67	2.08	27.52
1948	0.56	2.99	1.11	1.98	1.52	1.23	1.59	2.82	1.81	2.69	1.58	2.99	43.21
1949	3.88	3.72	1.47	9.15	0.75	5.43	0.97	2.55	1.88	10.26	0.16	0.26	21.13
1950	0.55	3.76	0.42	4.11	3.14	3.02	2.25	0.52	1.83	1.26	0.13	0.54	24.84
1951	0.41	2.64	2.92	4.03	4.03	4.69	0.04	0.25	5.36	1.38	1.68	0.94	30.06
1952	1.39	1.79	2.98	3.75	2.89	1.99	2.07	0.02	9.53	0.02	4.40	3.91	30.86
1953	0.84	1.24	1.03	1.71	1.05	4.12	1.82	1.74	2.52	1.85	2.63	1.52	20.61
1954	0.21	1.76	2.08	1.31	2.27	2.50	3.25	1.37	0.99	0.37	2.63	2.86	18.41
1955	1.74	3.85	1.15	0.25	3.50	2.35	1.08	5.88	0.29	1.47	1.55	2.86	51.88
1956	1.18	1.06	0.44	0.49	2.63	0.35	0.21	5.88	0.29	1.47	4.43	1.24	18.41
1957	1.77	3.25	4.07	1.80	6.40	4.05	1.08	0.24	10.08	5.47	1.77	0.83	36.40
1958	3.72	4.77	1.53	1.28	3.10	2.24	2.94	0.48	1.79	5.74	2.12	2.27	40.45
1959	0.67	1.00	0.56	4.71	4.00	4.02	2.18	4.26	1.71	9.62	2.42	2.27	40.45
1960	1.11	1.53	1.95	2.97	1.48	7.80	1.08	3.48	0.21	8.46	2.92	2.52	34.28
1961	0.64	1.22	1.22	4.88	0.88	3.16	0.19	1.67	2.73	5.08	4.29	2.85	27.40
1962	0.81	1.36	1.22	2.00	4.53	1.56	1.66	1.86	3.03	1.85	3.26	0.94	23.41
1963	0.20	2.34	0.18	2.00	4.53	1.56	1.66	1.86	3.03	1.85	3.26	0.94	23.41
1964	2.84	2.27	1.47	1.51	1.98	4.46	0.74	4.51	3.72	2.09	3.89	1.17	30.65
1965	2.71	8.39	1.21	2.98	8.84	2.19	3.98	8.84	5.03	3.74	5.03	1.83	45.16
1966	1.15	2.78	1.42	2.32	4.19	1.96	0.57	5.19	3.24	0.69	0.04	2.43	25.98
1967	0.17	0.48	2.21	0.87	2.84	T	2.07	4.50	9.69	3.17	4.46	1.28	31.74

Monthly Temperatures and Precipitation

