

U. S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric 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 29° 08' N
LONGITUDE 98° 10' W
ELEV. (GROUND) 400 ft.

CLIMATOLOGICAL SUMMARY

STATION FLORESVILLE, TEXAS

MEANS AND EXTREMES FOR PERIOD 1941-1970

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	Max.		Min.			
																		90° and above	32° and below	32° and below	0° and below		
(a)	8	8	8	8		8		8	30	30	1941	30	30	15	1944	15	15	8	8	8	8		
Jan	63.5	39.5	51.5	82	1969†	14	1964	424	1.78	3.72	1941	*	1.0	1944	0	1966	3	0	*	10	0	Jan	
Feb	65.3	40.9	53.1	81	1970	22	1966	334	2.27	3.20	1969	0.2	2.8	1964	1	1966	4	0	0	5	0	Feb	
Mar	74.2	49.2	61.7	95	1967	23	1965	166	1.30	2.00	1947	0	0	0	0	0	3	2	0	2	0	Mar	
Apr	84.6	61.8	73.2	100	1963	34	1966	14	2.66	4.35	1949	0	0	0	0	0	4	5	0	0	0	Apr	
May	87.0	65.1	76.1	103	1967	40	1970	3	3.89	4.50	1968	0	0	0	0	0	5	11	0	0	0	May	
Jun	92.9	70.2	81.6	103	1963	52	1970	0	2.74	4.11	1951	0	0	0	0	0	3	24	0	0	0	Jun	
Jul	97.3	72.6	85.0	106	1962	62	1967	0	1.64	7.38	1942	0	0	0	0	0	2	30	0	0	0	Jul	
Aug	97.0	71.8	84.4	104	1970	56	1967	0	2.49	4.29	1946	0	0	0	0	0	3	29	0	0	0	Aug	
Sep	91.4	68.3	79.9	105	1963	45	1967	*	3.91	5.25	1957	0	0	0	0	0	4	22	0	0	0	Sep	
Oct	85.0	57.4	71.2	98	1962	28	1970	25	2.79	3.75	1960	0	0	0	0	0	5	8	0	0	0	Oct	
Nov	76.3	48.9	62.6	92	1969	21	1970	141	1.91	2.00	1958	0	0	0	0	0	4	*	0	3	0	Nov	
Dec	67.8	42.1	55.0	86	1966	19	1966	333	1.58	2.10	1965	0	0	0	0	0	4	0	0	8	0	Dec	
Year	81.9	57.3	69.6	106	July 1962	14	Jan. 1964	1440	28.96	7.38	July 1942	0.2	2.8	Feb. 1964	1	Feb. 1966	44	131	*	28	0	Year	

(a) Average length of record, years.

+ Also on earlier dates, months, or years.

† Trace, an amount too small to measure.

* Less than one half.

** Base 65°F

THE CLIMATE OF FLORESVILLE, TEXAS

Floresville, located 30 miles southeast of San Antonio, via U.S. 181, is the county seat and principal agribusiness center of Wilson County. Floresville gets its name from Don Francisco Flores de Abryo, who first settled there and established ranch headquarters about six miles northwest of Floresville in 1832.

The economy of the county is based mainly on agribusiness with some mineral production. Principal agricultural products are livestock, peanuts, watermelons, flax, cotton, dairy and poultry products. The Spanish peanut has become well established in and around Floresville, and is annually saluted each fall with an elaborate festival. Cattle feed lots are increasing. Minerals consist of oil, gas and clays. Wilson County is rolling plains, with mostly sandy soils, cut by the San Antonio River and Cibolo Creek. Elevations range from 2,700 to 3,500 feet above mean sea level.

Floresville has a subtropical climate with mild dry winters and hot humid summers. Tropical Maritime air masses predominate throughout the spring, summer and fall months. Modified polar air masses exert considerable influence during the winter months and provide a continental type of climate, characterized by large variations in temperature. Mean annual total precipitation is 28.96 inches. Peak rainfall, the result of thundershowers, occurs in late spring. A secondary peak occurs in early fall. A total of 47.25 inches fell in 1968, the wettest year of record, while only 7.88 inches fell in 1917, the driest year. The prevailing winds are south to southeasterly throughout the year, except during December, when northerly winds predominate. The county receives approximately 50 percent of the total possible sunshine in winter, 57 percent in spring, 74 percent in summer and 66 percent in fall. The mean relative humidity, measured at noon, Central Standard Time, is estimated at 62 percent in January, 59 percent in April, 50 percent in July and 54 percent in October.

Winter: This season is not marked by any prolonged periods of cold weather but rather by short spans of 36 to 72 hours. Polar air masses undergo considerable modification before reaching this area. Weather changes occur often. Normally, daytime temperatures are sufficiently mild as to cause little or no interference with outdoor work or recreation. 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: The weather changes often in early spring. March is the driest month in an average year. Thundershower activity increases in April and reaches a peak in May. Considerable early morning cloudiness continues but clouds dissipate earlier in the day than in winter.

Summer: Daytime temperatures are hot. Daily maxima reach or exceed 90°F almost every day during July and August. Heavy thundershowers continue into June, but July is hot and dry with little variation in the weather regime from day to day. Rainfall increases in late August as tropical disturbances in the Gulf of Mexico become more frequent.

Fall: Warm weather continues through September and precipitation increases. The weather has greater variety than in summer. Daytime temperatures in October and November are pleasantly mild while nights are crisp and cool. Long periods of uninterrupted fair weather and light winds occur.

The mean length of the warm season (freeze free period) at Floresville is 280 days. The mean dates of the last occurrence of 32°F or below in the spring and the first occurrence of 32°F or below in the fall are February 24 and December 1, respectively. Mean annual lake evaporation is 56 inches, while in an average year, evaporation exceeds precipitation by about 28 inches.

FLORESVILLE, TEXAS

Average Temperature (°F)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1962	-	-	68.8	76.6	79.4	84.7	85.7	87.3	81.9	77.8	65.0	46.8	-
1963	53.0	51.9	62.9	72.5	78.4	82.4	86.1	85.7	80.6	75.1	65.3	55.2	70.1
1964	46.8	53.3	58.2	70.7	75.9	81.3	84.1	83.8	81.0	68.2	66.4	57.7	68.5
1965	53.2	54.4	61.0	70.7	74.7	78.7	83.3	82.7	79.1	70.8	63.0	53.0	70.6
1966	51.0	50.6	59.6	78.0	78.1	84.7	84.3	82.3	76.9	69.6	58.2	42.6	69.1
1967	54.1	55.8	56.5	70.2	73.4	81.6	86.5	85.0	78.7	71.8	59.4	36.1	69.1
1968	45.6	54.6	57.4	71.3	72.4	79.8	85.1	84.0	81.0	68.8	57.6	62.3	68.2
1970	-	-	-	-	-	-	-	-	-	-	-	-	-

FLORESVILLE, TEXAS

Total Precipitation (Inches)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1941	4.62	3.31	2.78	5.31	4.61	6.94	0.20	1.35	4.40	1.88	0.88	0.98	37.26
1942	0.20	1.45	0	3.88	2.13	1.40	11.43	4.70	5.80	2.77	1.75	0.28	35.79
1943	1.80	0.33	2.10	0.16	4.23	0.50	1.95	0.29	7.25	0.97	2.70	1.22	22.90
1944	2.70	1.92	1.15	0.28	6.81	0.85	0	2.39	0.94	1.13	4.39	1.52	24.08
1945	1.85	2.55	2.37	2.17	0	2.91	0.39	0.69	1.78	1.77	0	0.17	16.65
1946	3.54	2.34	2.33	5.42	3.90	5.22	0	7.69	6.01	3.02	2.74	3.37	44.58
1947	1.26	0	2.30	2.16	3.74	0	0	0	0	0.94	2.06	1.46	11.46
1948	0.73	3.02	0.24	1.42	1.48	1.17	2.96	5.24	1.68	2.79	1.24	0.10	22.07
1949	2.79	1.87	1.13	10.69	T	5.01	2.70	2.60	0.35	4.42	0.09	3.18	34.83
1950	0.22	1.70	0.17	4.79	0	0	0	0	0	0.28	0.24	0	0
1951	0.26	1.88	1.47	0.67	5.68	4.70	0.08	0.43	3.98	1.92	1.24	0.18	22.49
1952	0.59	2.41	1.64	3.19	2.11	0.98	3.55	0	4.75	0	3.65	4.04	26.91
1953	0.91	1.81	0.70	1.59	1.78	1.02	0.07	7.02	2.76	2.80	0.54	1.53	22.53
1954	0.89	0.02	0.08	5.09	5.16	1.66	0.26	2.02	0.54	1.61	0.61	0.36	18.30
1955	1.52	3.41	2.75	0.28	2.84	2.26	1.33	2.87	1.00	2.21	0.21	0.21	22.79
1956	0.77	0.89	0.36	2.40	0.97	1.03	0.82	3.01	0.73	1.31	0.65	2.96	17.90
1957	0.35	1.31	3.77	6.13	5.84	2.25	0.23	0.11	10.29	1.99	4.82	1.11	38.70
1958	5.61	5.27	0.82	1.87	6.47	4.69	0.70	0	8.97	7.66	2.90	1.02	43.43
1959	0.13	2.91	0.15	2.59	5.36	4.69	0.70	4.02	1.29	6.83	1.60	1.54	32.11
1960	0.71	2.48	1.13	1.22	1.07	4.30	2.02	6.26	0.96	11.62	3.26	4.74	39.70
1961	1.20	1.95	0.10	0.76	0.61	7.15	4.34	0.59	2.11	11.53	2.80	0.60	26.86
1962	0.82	0.41	1.40	3.88	1.24	1.84	0.02	1.09	3.15	1.49	3.09	2.67	21.40
1963	0.45	2.49	0.06	1.57	0.85	2.69	0.95	0.12	1.73	1.88	2.68	1.74	17.01
1964	2.29	1.84	1.60	1.40	4.12	0.35	0	3.24	4.45	1.60	1.75	5.10	24.42
1965	2.25	6.00	0.80	0.82	7.85	0.65	0.95	2.60	3.30	2.85	0.84	0	34.01
1966	1.85	2.52	0.68	5.95	3.28	2.59	1.11	4.33	5.00	1.45	0	0.45	27.23
1967	0.45	0.70	1.57	0.50	7.90	0	5.80	2.85	17.25	4.02	3.75	1.15	38.79
1968	8.35	2.65	1.32	1.77	7.90	7.38	0.40	0.73	9.52	1.78	3.74	1.71	47.25
1969	2.50	5.18	2.48	3.18	6.38	2.92	1.06	1.73	1.15	5.66	2.12	2.44	36.80
1970	1.99	3.51	2.43	0.56	8.67	1.90	0	1.52	2.05	0.61	0	0.22	23.46

STATION HISTORY

Rainfall observations began at Floresville in June 1916. The station has been relocated several times, but each new location was within 0.5 mile of the Floresville Post Office. Temperature equipment was added on July 1, 1962. Mr. R. W. Johnson was appointed Cooperative Weather Observer on October 25, 1968 and the station was moved to its present location at the city water plant, 0.3 mile northwest of the post office. Station equipment consists of a cotton region shelter, maximum and minimum thermometers, and a standard eight inch rain gage. Daily temperature and precipitation are published monthly in Climatological Data—Texas. Station Index Number: 41-3201-07.

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National Oceanic and Atmospheric Administration
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Monthly Temperatures and Precipitation

