

**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° 05' N  
 LONGITUDE 98° 21' W  
 ELEV. (GROUND) 1460 ft.

**CLIMATOLOGICAL SUMMARY**

STATION DUBLIN, TEXAS

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	Max.			Min.	
																			32° and below	32° and below		0° and below	0° and below
(a)	30	30	30	30		30		12	30	30					12	12	12	12	12				
Jan	56.4	31.8	44.1	90	1943	1	1947	691	1.90	3.22	1938	1.7	8.0	1964	8	1964	3	0	2	19	0	Jan	
Feb	60.3	35.5	47.9	90	1957+	4	1951	518	2.09	3.07	1941	0.7	5.6	1951	5	1966	4	*	1	12	0	Feb	
Mar	68.1	40.9	54.5	97	1946	8	1943	377	1.49	1.67	1943	0.3	4.0	1962	2	1962	3	*	*	6	0	Mar	
Apr	76.8	51.7	64.3	101	1963	28	1940	111	3.64	3.91	1941	*	0.3	1938	0		5	1	0	*	0	Apr	
May	82.7	60.1	71.4	101	1967	38	1954	22	4.63	8.71	1956	0	0		0		6	5	0	0	0	May	
Jun	90.6	67.6	79.1	105	1953+	48	1964	1	2.84	3.59	1939	0	0		0		4	18	0	0	0	Jun	
Jul	95.4	70.9	83.2	108	1943	56	1940	0	2.02	3.80	1959	0	0		0		3	27	0	0	0	Jul	
Aug	96.1	70.5	83.3	110	1947+	54	1961	*	2.04	3.90	1964	0	0		0		3	26	0	0	0	Aug	
Sep	88.8	64.2	76.5	109	1953	37	1942	5	3.30	6.04	1942	0	0		0		5	14	0	0	0	Sep	
Oct	79.8	54.2	67.0	104	1951	31	1957+	88	2.98	5.56	1959	0	0		0		4	3	0	*	0	Oct	
Nov	67.1	42.1	54.6	91	1945	18	1959+	326	2.29	3.91	1963	0.2	7.0	1957	7	1957	4	0	0	4	0	Nov	
Dec	59.3	34.7	47.0	90	1955	9	1950	586	1.72	2.38	1956	0.3	3.0	1954	1	1963	3	0	1	14	0	Dec	
Year	76.8	52.0	64.4	110	Aug. 1947+	1	Jan. 1947	2725	30.94	8.71	May 1956	3.2	8.0	Jan. 1964	8	Jan. 1964	47	94	4	55	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 DUBLIN, TEXAS

Dublin is located in North Central Texas, 83 miles southwest of Fort Worth. It is in the southwestern part of Erath County, and is served by both the Santa Fe and Missouri-Kansas-Texas railroads. U.S. Highways 67 and 377 intersect State Highway 6 at Dublin. Erath County is rolling plains and hills, with sandy, clay, and loam soils. Oil, gas, stone, sand, and gravel are produced in the county. It is a leading poultry, egg, and peanut-producing area. Additional farm income is derived from dairying, nursery plants, and beef cattle. County elevations range from about 900 to 1,750 feet above sea-level. Proctor Reservoir, with a surface area of 4,610 acres, lies in Comanche County, about 10 miles southwest of Dublin, and is a favorite spot for lakeside camping, boating, fishing and other water sports.

Dublin 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 winter and provide extreme variations in temperature, characteristic of a continental type of climate. Mean annual total precipitation is 30.94 inches with more than three-fourths of this amount falling during the warm season, April through October. Prevailing winds are southerly the year round, averaging about 13 miles-per-hour. The relative humidity is fairly uniform throughout the year, although slightly lower during the summer than in other seasons. Mean annual relative humidity is about 79 percent at 6:00 a.m., 53 percent at noon, and 47 percent at 6:00 p.m., Central Standard Time. Seasonal climatic changes are more easily defined than in South Texas, but not nearly so abrupt as on the High Plains.

**Winter:** During this season, Dublin experiences frequent surges of cold polar air masses. Cold fronts moving down from the High Plains are often accompanied by strong, gusty, northerly winds, and sudden drops in temperature. Moisture from the Gulf of Mexico is cut off rather effectively, resulting in this season receiving the least precipitation. Occasionally, cold fronts become stationary across Central Texas, resulting in several days of cold, cloudy weather. Precipitation may fall as rain, freezing rain, sleet, or snow. Very low temperatures rarely occur before the last week in December. Snow may fall once or twice a month during the winter season, but usually is of little or no consequence. A few exceptionally heavy snows bias the snowfall data with the result that the arithmetic mean is usually a poor estimate of expected snow-

fall. The lowest temperature on record, -9°F, occurred February 1, 1899.

**Spring:** This is a very enjoyable season. During March, warm and cool spells of short duration follow each other in rapid succession. Temperature changes are sometimes quite pronounced. The cloudiness, drizzle, and light rain of the winter season decreases, while shower-type precipitation increases. As the spring season progresses, fewer cold fronts enter the area, and those that do cause only a small drop in temperature. Thunderstorm activity increases, with an average of about six per month in both April and May. These late spring or early summer thunderstorms are sometimes accompanied by destructive hail and windstorms. March and April are the windiest months of the year.

**Summer:** This is a hot season. There are few days when the maximum temperature does not reach or exceed 90°F. While some very hot days may occur in June, frequent thundershowers, an average of about six during the month, break the hottest weather into short periods. The highest temperatures of summer are associated generally with fair skies, westerly winds, and very low humidities. There is little variety in the day-to-day weather pattern during July and August. Evaporative-type home air-conditioners are effective for cooling about 85 percent of the time during July and August. The highest temperature on record, 114°F, occurred on August 11, 1936.

**Fall:** This is the most delightful season of the year, when temperatures are neither extremely hot nor cold; when wind velocities are the lowest during the year; and when long periods of uninterrupted fair weather occur. Warm weather continues through most of September, but temperatures are not excessive. Rainfall increases during September and October. The weather has greater variety than in summer, yet continues mild.

The mean length of the growing season (freeze free period) is 238 days. The mean dates of the last 32° freeze in the spring and the first in the fall are March 27 and November 19, respectively. Significant departures from these mean values may exist locally because of differences in topography, exposure, soil condition, and vegetative cover. Mean annual lake evaporation is 62 inches while mean annual sunshine is about 69 percent of the total possible.

DUBLIN, TEXAS

Average Temperature (°F)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1938	47.1	49.2	61.6	61.5	71.0	80.1	82.4	83.8	79.0	71.7	52.2	47.8	65.6
1939	49.6	45.2	57.2	63.0	73.4	80.4	81.1	82.8	81.2	70.6	53.9	53.3	66.2
1940	35.9	47.0	58.8	62.3	71.4	75.0	80.9	81.2	75.4	69.4	51.9	47.8	63.1
1941	47.6	46.6	50.5	62.6	72.8	76.3	81.4	82.1	77.0	69.8	55.2	50.2	64.3
1942	43.4	47.2	54.0	63.3	68.4	78.0	80.4	82.4	72.6	63.8	58.8	48.4	63.4
1943	44.9	43.4	49.4	68.2	71.6	80.5	84.8	87.6	74.2	64.2	54.6	42.6	64.7
1944	44.8	51.2	53.2	63.8	70.0	79.9	83.6	83.3	74.2	68.2	56.8	42.6	64.3
1945	45.3	49.3	60.4	61.4	70.4	77.6	80.2	82.6	77.8	64.5	59.4	44.6	64.5
1946	43.2	50.4	59.4	68.8	70.5	78.0	85.0	84.2	73.6	66.8	55.0	50.6	65.5
1947	43.0	43.1	49.2	62.9	70.6	81.0	85.7	84.1	79.4	78.8	50.6	47.6	64.2
1948	37.4	44.4	69.9	69.9	73.0	82.0	-	-	-	64.6	54.4	49.9	-
1949	38.4	48.2	54.4	60.4	73.4	79.4	84.0	82.3	75.4	65.8	59.8	49.2	64.2
1950	49.1	52.0	54.7	60.4	71.5	77.6	80.2	82.7	75.4	72.6	54.9	48.1	65.1
1951	46.4	47.4	56.9	63.6	71.5	79.1	85.7	88.1	78.6	69.3	51.4	49.3	65.6
1952	53.6	53.7	53.5	62.1	71.1	81.5	83.3	87.9	77.4	64.5	54.2	45.1	65.6
1953	51.8	53.7	60.2	61.9	70.4	81.8	83.2	82.8	78.8	68.1	52.9	44.5	65.8
1954	48.4	49.4	54.8	64.4	69.3	82.4	87.8	85.5	81.2	68.8	55.1	49.9	67.0
1955	45.4	46.5	56.4	63.4	74.4	81.7	85.0	82.8	79.5	68.8	54.1	47.1	65.0
1956	45.0	47.5	56.4	63.4	74.4	81.7	85.0	82.8	79.5	68.8	54.1	47.1	65.0
1957	44.0	44.2	53.2	60.4	69.1	78.1	85.5	85.0	74.1	61.5	50.6	50.1	66.1
1958	44.4	42.9	47.3	60.7	71.2	80.7	83.3	81.7	76.6	64.6	57.3	43.8	63.1
1959	41.6	46.3	54.8	62.2	73.8	78.8	80.3	81.7	78.0	68.3	47.8	49.8	63.2
1960	43.6	41.8	48.0	66.4	69.7	80.6	82.2	81.4	76.9	63.5	56.3	42.4	62.4
1961	40.3	49.0	57.4	61.3	71.5	75.9	78.6	79.5	74.4	65.5	50.7	45.0	62.4
1962	38.4	54.8	51.1	62.1	74.3	77.3	82.7	85.5	76.8	68.4	54.4	46.7	64.4
1963	37.0	46.1	58.5	70.1	72.3	79.5	84.8	84.9	76.8	71.3	55.6	39.4	64.7
1964	43.5	43.3	53.8	65.8	72.4	78.0	85.1	83.6	74.8	63.0	56.0	46.1	63.8
1965	39.2	43.6	46.1	66.6	70.5	77.9	82.8	80.7	76.8	63.3	60.5	49.2	63.8
1966	43.5	43.5	55.3	63.6	69.6	77.6	83.7	78.4	73.1	63.2	57.4	43.8	62.3
1967	45.6	45.6	69.5	69.5	70.0	80.0	80.5	80.4	70.7	63.2	53.3	44.0	-

STATION HISTORY

Rainfall observations began at Dublin in September 1890; temperature equipment was added in September 1895. Exposure was over rolling prairie. The station has remained within a short distance of the present location of the Dublin Post Office building throughout its history. The present location is at the home of the observer, Delbert L. Shafer, 220 Grace Street. Station equipment consists of a cotton region shelter, maximum and minimum thermometers, and standard eight-inch rain gage. Data are published monthly in CLIMATOLOGICAL DATA-TEXAS. Station index number, 41-2598-03.

Weather Bureau State Climatologist  
Environmental Science Services Administration  
3600 Manor Road, Austin, Texas 78712  
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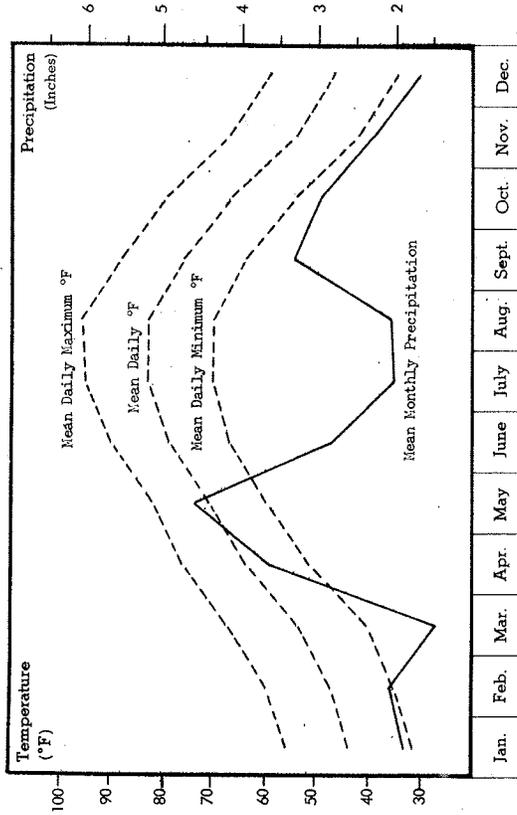
DUBLIN, TEXAS

Total Precipitation (Inches)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1938	4.97	3.14	1.91	1.87	4.27	1.77	5.60	0.32	0.81	0.68	1.24	1.52	28.10
1939	3.67	1.91	1.47	2.23	5.10	4.44	1.13	2.56	0.31	0.26	4.65	1.11	29.97
1940	0.85	2.84	0.34	1.37	2.34	8.88	1.40	3.33	2.69	0.86	9.90	4.26	40.66
1941	1.80	7.14	2.33	7.44	6.11	5.73	4.08	7.69	1.67	5.33	0.44	1.45	50.41
1942	0.33	0.60	0.80	1.14	4.86	3.70	0.81	2.48	11.40	5.92	0.67	2.78	43.49
1943	0.54	0.44	2.41	1.73	3.92	2.13	0.31	0	5.95	1.23	0.48	3.81	22.95
1944	4.21	3.36	1.37	1.96	7.56	0.73	2.65	3.06	1.86	1.88	3.96	2.75	35.35
1945	2.56	4.85	3.52	5.21	2.75	3.82	3.82	0.97	3.85	3.45	0.63	0.62	36.05
1946	2.96	3.27	2.10	1.98	5.39	2.67	1.25	1.04	1.04	1.46	5.01	0.99	33.31
1947	2.85	0.52	3.74	1.98	3.08	1.22	T	1.21	1.73	2.43	1.88	2.92	33.56
1948	1.85	2.80	0.96	1.75	2.91	4.14	0.21	2.71	2.74	5.96	0.98	1.37	-
1949	4.73	2.68	2.45	6.61	5.64	4.61	0.21	0.28	0.28	0.65	0.16	T	41.54
1950	2.11	2.72	2.29	3.43	4.54	2.48	3.87	0.28	2.69	0.65	0.16	T	23.22
1951	1.17	1.94	1.08	1.62	3.91	4.22	0.38	0.63	1.83	1.75	0.64	0.12	18.29
1952	0.27	0.64	1.80	3.81	10.16	0.10	0.41	0.41	2.34	0	4.20	2.50	26.64
1953	0.04	0.52	2.63	3.28	3.51	0.53	1.47	2.54	0.87	5.34	1.61	0.61	22.95
1954	0.74	0.70	0.70	4.33	2.89	0.27	0.93	1.56	0.27	5.15	2.23	1.45	21.32
1955	1.21	1.70	0.74	3.05	6.46	4.15	1.31	0.79	3.20	1.02	T	0.53	24.56
1956	1.76	1.72	1.42	3.05	10.89	0.75	0.22	0.25	0.07	1.04	1.35	2.79	24.64
1957	0.72	1.34	1.66	8.42	10.18	0.99	0.91	0.20	3.71	3.92	6.27	1.73	30.87
1958	0.22	2.16	2.37	4.65	2.70	2.97	3.83	2.10	3.66	1.36	1.15	1.40	30.58
1959	0.04	1.29	0.38	2.03	2.18	7.08	7.88	2.57	1.76	9.42	1.48	2.42	38.33
1960	3.34	1.75	1.18	2.94	2.86	2.59	3.72	0.55	2.07	3.90	0.43	4.11	29.44
1961	0.68	3.37	1.73	4.00	1.56	4.62	2.96	0.72	3.43	5.83	2.97	0.89	34.56
1962	0.46	0.94	0.61	3.93	1.10	3.89	1.95	0.22	6.64	6.81	2.03	0.79	29.37
1963	0.48	0.15	0.60	1.39	6.14	3.43	0.33	2.83	3.62	1.35	5.94	0.94	27.80
1964	2.91	1.65	2.50	6.16	1.22	0.87	0.54	6.15	10.12	2.57	2.48	0.58	37.85
1965	1.87	3.79	0.84	1.49	10.02	0.97	1.19	3.26	1.19	2.84	2.86	2.13	32.45
1966	1.05	1.95	0.31	5.05	1.31	2.43	1.92	6.01	4.54	0.62	0.37	0.34	25.90
1967	0.24	0.79	1.73	2.51	2.90	1.14	3.51	1.97	6.86	3.01	2.60	1.52	28.78

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Monthly Temperatures and Precipitation



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