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

LATITUDE 29° 44' N
LONGITUDE 94° 58' W
ELEV. (GROUND) 26 ft.

STATION BAYTOWN, TEXAS

MEANS AND EXTREMES FOR PERIOD 1947-1967

Month	Temperature (°F) Means: Daily maximum	Daily minimum	Monthly	Extremes: Record highest	Year	Record lowest	Year	** Mean degree days	Precipitation Totals (Inches): Mean	Greatest daily	Year	Snow, Sleet: Mean	Maximum monthly	Year	Greatest Depth	Year	Mean number of days: Precip. .10 inch or more	Temperatures: Max. 90° and above	Max. 32° and below	Min. 32° and below	Min. 0° and below	Month
(a)	20	20	20	20		20		11	20	20		20	20		11		11	11	11	11	11	
Jan	62.9	43.8	53.4	83	1957	15	1962+	427	3.41	2.90	1961	0.1	1.0	1949	0		6	0	*	6	0	Jan
Feb	66.0	46.7	56.4	87	1957+	15	1951	290	4.62	5.43	1952	0.3	4.5	1960	0		6	0	0	3	0	Feb
Mar	71.9	51.7	61.8	89	1955	26	1948	162	2.32	4.30	1957	0	0		0		4	0	0	1	0	Mar
Apr	78.2	60.6	69.4	92	1963+	38	1961	30	4.08	3.78	1954	0	0		0		5	*	0	0	0	Apr
May	84.3	67.9	76.1	99	1948	46	1954	1	3.46	3.65	1959	0	0		0		4	2	0	0	0	May
Jun	89.6	73.2	81.4	99	1967	58	1955	0	4.27	7.15	1960	0	0		0		4	14	0	0	0	Jun
Jul	92.0	75.0	83.5	103	1954	62	1967	0	4.12	3.75	1959	0	0		0		5	24	0	0	0	Jul
Aug	92.1	74.1	83.1	106	1962	61	1967	0	4.67	5.34	1955	0	0		0		6	22	0	0	0	Aug
Sep	88.6	69.7	79.2	99	1947	41	1967	1	4.71	5.56	1957	0	0		0		5	13	0	0	0	Sep
Oct	81.8	60.5	71.2	96	1952	34	1957	24	3.46	6.40	1949	0	0		0		4	2	0	0	0	Oct
Nov	71.9	51.5	61.7	89	1963	25	1959	149	4.02	5.26	1953	0	0		0		4	0	0	1	0	Nov
Dec	65.6	45.8	55.7	85	1951	17	1950	311	4.70	6.20	1964	T	T	1950	0		6	0	0	3	0	Dec
Year	78.7	60.1	69.4	106	Aug. 1962	15	Jan. 1962+	1395	47.84	7.15	Jun. 1960	0.4	4.5	Feb. 1960	0		59	77	*	14	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 BAYTOWN, TEXAS

Baytown is an industrial center on the Houston Ship Channel, 25 air miles east of the center of downtown Houston. The surrounding area is level coastal plain with a variety of soils. Galveston and Trinity Bays lie to the south and east.

The climate of Baytown is humid subtropical with warm summers. The prevailing winds are south-southeasterly throughout the year, except in January. The proximity of the Gulf of Mexico and the Bays result in a climate that is predominantly Marine. The climate is less extreme than in areas located a greater distance from the coastline. Polar air masses penetrate the area frequently in winter, adding greater variability to the weather in this season.

Winter temperatures are mild, being moderated by the influence of the relatively warm Gulf. Persistent off shore winds in summer result in relatively cool summer nights.

The relative humidity is rather high, characteristic of coastal locations. The mean annual relative humidity is about 88 percent at 6:00 a.m., 60 percent at noon, and 66 percent at 6:00 p.m., Central Standard Time. The level terrain, cut by numerous small streams and bayous, together with the nearness to Galveston and Trinity Bays, favor the development of both radiation and advection fogs from about October through April.

Monthly rainfall is abundant and evenly distributed throughout the year. Drought periods do occur, but not as frequently as in the more central and western portions of the state. The mean annual rainfall is 47.84 inches. Extremely heavy autumn rains resulted in an annual total of 76.94 inches in 1957, the wettest year of record. Only 27.73 inches fell in 1967. The year 1956 may have been drier, but complete records are not available for that year.

The area receives about 64 percent of the total possible sunshine annually. December and January are the cloudiest months.

The mean length of the growing season (freeze free period) at Baytown is about 305 days. The mean date of the last occurrence of 32°F in the spring is about February 11, while the mean date of the first occurrence of 32°F in the fall is about December 13.

BAYTOWN, TEXAS

Average Temperature (°F)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1947	52.8	50.4	56.8	71.4	75.6	82.0	83.4	83.3	80.2	75.8	60.5	56.5	69.0
1948	47.3	55.3	62.8	71.7	77.6	83.0	84.6	84.8	77.8	70.3	62.2	59.4	69.7
1949	53.2	59.7	63.8	67.3	78.8	83.0	83.8	82.6	80.2	73.1	63.1	57.2	70.5
1950	63.2	62.2	61.6	68.2	78.7	81.1	83.0	82.9	79.7	73.4	61.7	56.5	71.0
1951	54.7	57.0	64.1	67.7	75.9	82.7	85.4	86.3	79.4	72.5	59.8	59.0	70.4
1952	62.7	60.0	61.4	66.4	74.4	81.9	83.3	84.9	78.4	65.3	59.8	54.4	69.4
1953	58.0	55.9	68.7	69.7	77.0	84.2	84.0	82.4	79.4	72.1	59.8	52.2	70.3
1954	55.6	62.4	61.4	72.4	72.8	82.0	85.0	84.5	81.1	72.9	60.2	57.8	70.7
1955	54.8	56.9	66.0	71.2	77.6	80.1	83.7	82.6	80.2	70.5	61.2	56.4	70.1
1956	-	-	-	-	-	-	-	-	79.9	73.0	61.0	59.9	-
1957	57.8	63.1	62.7	68.7	76.9	80.8	84.5	82.5	76.2	67.3	60.9	57.7	69.9
1958	50.7	50.7	58.9	69.0	76.9	82.6	84.2	83.4	78.9	69.2	62.8	52.9	68.4
1959	50.2	56.9	60.5	66.3	76.6	81.1	81.0	81.8	79.1	71.4	56.7	54.9	68.0
1960	51.9	50.2	58.0	69.6	72.9	81.1	82.8	81.1	77.4	71.1	63.3	52.8	67.7
1961	48.5	56.8	65.6	65.6	74.1	78.6	80.9	79.7	78.6	70.1	58.9	56.2	67.8
1962	48.3	63.2	59.2	68.0	76.0	79.9	84.5	85.3	81.2	74.1	60.2	54.0	69.5
1963	47.7	52.2	65.0	73.7	76.9	81.0	83.4	84.1	80.0	75.3	64.2	47.9	69.3
1964	52.1	51.3	60.2	70.4	76.9	80.4	83.0	83.9	79.4	67.8	64.7	55.5	68.8
1965	56.8	55.2	58.5	72.7	76.2	81.0	83.7	82.0	79.6	68.6	68.3	57.8	70.0
1966	48.0	52.1	59.5	69.7	75.6	80.3	84.4	82.0	78.9	-	-	-	-
1967	-	-	-	-	74.7	82.0	82.0	82.0	76.9	69.3	64.7	55.6	-

BAYTOWN, TEXAS

Total Precipitation (Inches)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1947	4.86	0.94	4.37	1.06	8.59	6.81	0.60	7.09	0.84	2.82	4.76	5.98	48.72
1948	-	-	1.72	1.72	4.75	2.15	1.65	4.26	3.23	1.21	8.59	1.06	-
1949	3.64	6.66	4.53	6.16	2.80	1.82	6.14	4.17	3.66	14.73	0.43	9.13	63.87
1950	3.33	8.59	1.91	3.84	2.69	6.93	4.39	1.99	3.08	0.24	0.98	1.20	39.17
1951	4.62	2.39	3.60	0.54	2.40	1.88	1.61	2.84	12.45	1.90	1.15	2.27	37.65
1952	1.02	9.57	3.32	6.50	2.66	2.00	4.94	0.28	3.27	0.02	7.23	6.91	47.72
1953	1.61	3.87	0.10	2.39	6.84	6.02	4.12	13.53	0.32	3.45	8.00	7.11	57.36
1954	1.48	0.10	1.78	7.42	4.66	2.05	3.48	3.25	4.92	4.93	1.84	2.27	38.18
1955	5.41	7.61	0.40	2.69	3.04	1.67	3.47	9.59	2.55	1.95	1.75	2.97	43.10
1956	-	-	-	-	-	-	-	-	0.68	2.46	0.49	5.10	-
1957	2.06	3.53	11.28	7.92	3.03	11.31	0.91	3.31	13.80	8.54	8.28	2.97	76.94
1958	6.87	4.18	0.90	6.91	1.49	0.98	3.61	5.82	11.61	2.52	2.30	0.67	47.86
1959	5.65	11.35	0.95	8.20	6.63	2.00	15.50	6.05	4.20	4.75	1.90	8.50	75.68
1960	1.70	3.90	0.04	1.55	0.55	9.75	7.80	8.93	0.87	6.55	4.45	9.07	55.16
1961	6.50	7.20	0.13	5.29	1.35	10.60	4.80	4.40	12.90	0.10	10.15	3.75	67.17
1962	1.70	0.25	1.30	4.90	2.58	4.90	1.60	4.20	2.75	5.00	5.60	5.10	39.88
1963	3.10	2.55	1.25	0.95	0.55	3.85	4.10	0.30	3.30	1.10	6.30	5.10	32.45
1964	2.95	5.10	3.00	2.15	1.18	2.58	2.90	3.42	7.90	0.30	4.15	8.15	43.78
1965	2.00	3.65	1.95	2.10	3.65	5.10	2.50	1.75	4.70	3.00	2.75	7.40	40.55
1966	4.05	4.25	2.55	6.44	4.82	2.13	3.56	5.51	0.50	5.13	2.64	1.80	43.38
1967	2.25	2.09	1.27	2.90	4.97	0.82	4.68	2.71	1.40	1.92	0.58	2.14	27.73

STATION HISTORY

A rainfall reporting station was established at Goose Creek on October 10, 1921, and data published in CLIMATIC SUMMARY OF THE UNITED STATES. Maximum and minimum thermometers were added to the station equipment on January 20, 1942. The station was located 0.5 mile south of the post office. On September 1, 1944, the station was moved to 315 E. Gulf Avenue. The Humble Oil and Refining Company established a second temperature and rainfall station, officially known as Baytown (Index No. 41-0586-08) at 222 Virginia Street, 0.5 mile east of the present Baytown Post Office on June 15, 1946. The name of the city was officially changed from Goose Creek to Baytown on January 24, 1948. On September 1, 1956, the U.S. Weather Bureau consolidated the two climatological stations and discontinued publication of the Baytown data (Station 41-0586-08, located at 222 Virginia Street). The name of the Goose Creek station (41-3640-08) was changed to Baytown, and the station index number changed to the Baytown number, 41-0586-08. The station location remained at 315 E. Gulf Street. The current Baytown record (since September 1, 1956) is a continuation of the Goose Creek record. The station is currently located at Holly Inn Motel, 0.8 mile southeast of the Baytown Post Office. Throughout the period of record, all station moves have been confined within a distance of one mile of the post office. Temperature and precipitation data are published monthly in CLIMATOLOGICAL DATA-TEXAS, Index No. 41-0586-08.

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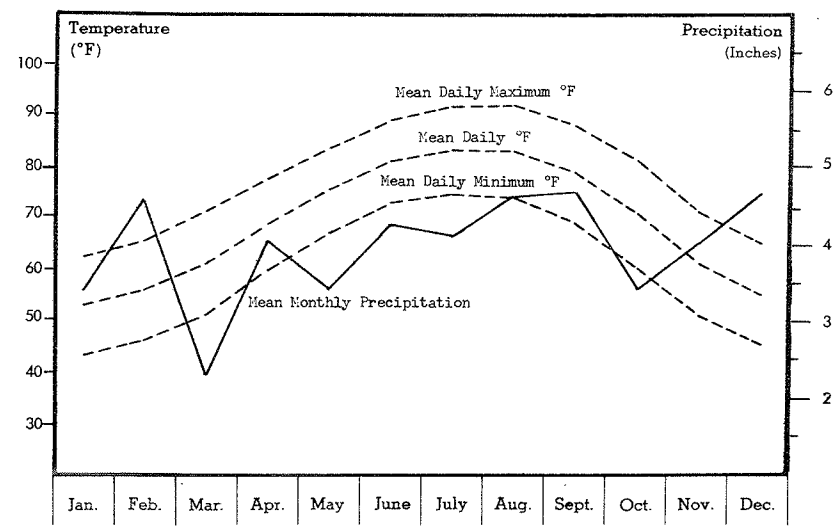
Monthly Temperatures and Precipitation