U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU
IN COOPERATION WITH The Tyler Chamber of Commerce
CLIMATOGRAPHY OF THE UNITED STATES NO. 20 — 41

CLIMATOLOGICAL SUMMARY

STATION TYLER, TEXAS

LATITUDE 32° 24'
LONGITUDE 95° 16'
ELEV. (GROUND) 535 feet

MEANS AND EXTREMES FOR PERIOD 1941-1957

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 daily	Year	Mean number of days: Precip. .10 inch or more	Temperatures Max.: 90° and above	32° and below	Min.: 32° and below	0° and below	Month
(a)	17	17	17	17		17		17	17	18		17	17		17		17	17	17	17	17	
Jan	57.1	37.2	47.2	84	1943	7	1943	561	3.86	4.08	1949	1.4	7.5	1949	7.5	1949	5	0	2	10	0	Jan
Feb	61.4	41.1	51.3	84	1954+	2	1951	400	3.49	2.70	1944	T	0.3	1955	0.3	1955	6	0	*	5	0	Feb
Mar	67.4	45.8	56.6	92	1946	13	1943	307	4.06	3.71	1945	T	T	1955+	T	1955+	5	*	*	3	0	Mar
Apr	75.9	54.8	65.4	93	1943	32	1957	90	5.37	4.42	1957	0	T	1955+	T	1955+	6	*	0	*	0	Apr
May	82.9	62.6	72.8	95	1949	40	1954	0	5.86	4.31	1944	0	T	1955+	T	1955+	7	4	0	0	0	May
Jun	89.5	69.8	79.7	100	1956+	50	1956	0	2.75	2.78	1957	0	0	- -	0	- -	4	19	0	0	0	Jun
Jul	93.7	72.5	83.1	108	1954	61	1950	0	2.19	3.32	1955	0	0	- -	0	- -	3	26	0	0	0	Jul
Aug	94.4	72.1	83.3	107	1951+	51	1956	0	2.62	4.25	1955	0	0	- -	0	- -	4	26	0	0	0	Aug
Sep	88.0	65.5	76.8	105	1951	39	1942	0	2.70	2.70	1953	0	0	- -	0	- -	4	14	0	0	0	Sep
Oct	79.4	56.0	67.7	93	1954+	27	1957	62	3.51	4.39	1943	0	0	- -	0	- -	4	2	0	*	0	Oct
Nov	66.8	44.8	55.8	88	1955	19	1955	300	4.00	3.74	1944	0	T	1952+	T	1952+	5	0	0	3	0	Nov
Dec	59.9	39.3	49.6	84	1956	11	1955	477	3.81	4.16	1942	0.1	1.4	1949	M	M	6	0	*	6	0	Dec
Year	76.4	55.1	65.8	108	Jul 1954	2	Feb 1951	2197	44.22	4.42	Apr 1957	1.5	7.5	Jan 1949	7.5	Jan 1949	59	91	2	29	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.

M Missing

CLIMATE OF TYLER, TEXAS

Tyler, the county seat of Smith County, is located at the western edge of the Piney Woods. Smith County was created from Nacogdoches County in 1846 and named for General James Smith, a Texas pioneer. Smith County's forested hills and valleys, with many running streams, are bounded on the north by the Sabine River, and the Neches River forms the western boundary of the county. The combination of climate and soils has made Tyler the center of a vast rose growing industry. The Rose Festival and Lake Tyler attract many tourists.

Prevailing winds are from the south-southeast, and consequently the influence of the Gulf of Mexico plays a definite part in the climate of Tyler. Located about 200 miles from the Gulf of Mexico, the Gulf air tempers both the summer heat and winter cold. It is also the source of abundant rainfall.

The summer months are quite warm, with June, July and August averaging 82 degrees. Daily maxima average 94 degrees in July and August, and nighttime low temperatures of 72 degrees. The highest temperature recorded at Tyler was 108 degrees in July, 1954, but even this is lower than stations farther north.

Winters are mild, with the usual winter having only 31 days per season with freezing temperatures. The occasional cold spells are of short duration, usually turning cold one day, reaching the lowest temperature on the second day and then warming up again on the third day. Subtropical vegetation and flowers such as the magnolia, camellia, gardenia and rose fare well in the winter. Roses often bloom into December and begin blooming again by late March. Maximum daily temperatures during these winter months are around 60 degrees and the coldest month, January, has an average daily minimum of 37.2 degrees.

By March the grass and trees are greening, and spring planting is underway. The average date of the last occurrence of 32-degree temperatures in the spring is March 19. The latest date of occurrence in the spring was April 9, 1957. On the average, the first occurrence of 32-degree temperatures in the fall is November 15. The earliest date of occurrence was October 27, 1957.

Average rainfall is 44.22 inches. Most of the rain falls from November through May. Heaviest rains occur during the months of April and May. Summer rainfall is almost entirely of the local shower and thunderstorm type, whereas during the remainder of the year rains are more general in nature and connected with weather changes. Winter rainfall occurs on the average of six days a month and is heavy for short periods. The rainiest month is May, when the average number of days on which rain occurs is seven. July is the driest month of the year, when rains occur on about three days of the month. The greatest 24-hour precipitation on record occurred on May 14, 1905, when 4.75 inches fell.

Snowfall averages 1.5 inches a year. Heavy snows are infrequent and are unimportant as a source of moisture. Many years no snow occurs. During brief periods in the winter months an occasional ice or sleet storm does damage to trees, power and telephone lines.

TYLER, TEXAS
Average Temperature (°F)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1941	49.3	46.3	51.5	65.3	73.7	77.3	81.7	83.1	78.7	71.5	53.9	50.5	65.2
1942	43.7	47.2	56.5	65.7	71.5	79.7	81.7	82.0	74.0	67.3	60.1	49.0	64.8
1943	46.5	53.7	52.6	68.8	74.9	81.9	83.8	86.0	76.2	65.5	55.2	46.0	65.9
1944	46.5	53.5	58.9	64.7	72.1	82.4	84.4	84.0	76.4	68.6	57.9	44.5	66.2
1945	46.6	51.6	62.8	64.5	M	M	80.6	81.9	78.6	65.0	60.3	M	- -
1946	45.6	52.8	61.3	68.9	71.1	74.8	83.3	82.9	75.7	68.2	57.9	54.0	66.4
1947	47.5	43.7	50.5	66.0	71.7	79.6	82.5	84.6	78.1	74.0	52.2	49.8	65.0
1948	39.4	48.7	55.2	69.0	73.0	81.9	85.2	84.7	76.8	66.8	55.7	51.6	65.7
1949	44.1	51.7	57.1	63.5	76.3	81.8	83.7	80.8	75.7	66.7	59.3	53.0	66.1
1950	53.1	54.3	55.1	62.7	74.0	78.3	81.0	80.9	74.5	70.6	55.5	48.2	65.7
1951	47.7	50.3	58.1	63.6	71.4	78.6	83.8	87.9	77.1	67.9	53.6	51.9	66.0
1952	55.6	54.1	55.5	62.4	71.7	80.8	82.3	85.5	77.6	64.4	55.1	47.9	66.1
1953	51.7	51.3	62.7	62.5	72.7	83.1	80.6	80.6	77.3	68.8	55.1	46.6	66.1
1954	48.5	57.9	56.6	69.4	68.6	80.7	86.9	86.3	81.5	69.7	M	M	- -
1955	45.3	48.4	58.3	67.6	74.1	75.9	82.1	79.6	76.5	65.6	54.3	47.2	64.6
1956	44.9	49.9	56.0	63.2	74.9	79.2	85.1	83.9	76.4	68.4	53.0	51.4	65.5
1957	45.4	55.7	53.8	63.0	72.3	78.5	83.5	80.6	73.5	62.0	53.6	51.9	64.5

M = Missing.

TYLER, TEXAS
Total Precipitation (Inches)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1941	1.74	3.15	3.93	5.79	1.53	8.78	4.08	3.09	4.29	4.38	2.69	4.81	48.26
1942	2.87	1.51	3.03	10.08	2.49	4.29	0.31	3.81	1.06	1.75	2.00	5.53	38.73
1943	1.63	0.40	3.20	2.59	11.34	0.74	1.77	0.37	5.16	5.87	0.72	3.18	36.97
1944	5.59	8.07	3.39	6.54	10.96	1.31	0.63	4.06	1.38	T	8.04	8.00	57.97
1945	2.58	4.59	15.61	4.27	M	M	5.11	2.83	3.10	4.90	2.10	M	- -
1946	7.77	3.59	7.06	3.50	11.29	2.27	0.02	6.47	2.08	3.00	11.64	1.62	60.31
1947	3.85	2.07	4.75	5.99	3.66	3.77	0.10	0.99	3.80	1.98	3.82	6.40	41.18
1948	2.82	2.70	3.09	2.61	7.40	1.19	0.09	0.37	0.21	1.43	2.38	2.30	26.59
1949	8.91	2.79	3.89	4.20	3.28	1.17	4.40	3.91	2.56	10.19	0.36	3.20	48.86
1950	5.38	5.75	1.75	6.39	8.79	1.58	3.35	1.81	3.18	0.85	1.95	T	40.78
1951	2.96	4.23	2.84	2.32	2.69	4.01	2.86	0.92	5.05	2.82	3.10	2.57	36.37
1952	1.90	4.93	3.74	5.85	4.63	1.30	1.88	T	1.61	0.17	7.00	7.49	40.50
1953	0.98	1.74	5.16	4.42	6.97	1.78	5.69	1.81	3.19	2.43	2.74	5.81	42.72
1954	2.63	1.29	1.42	3.79	6.92	0.08	0.22	0.29	1.15	9.27	M	M	- -
1955	2.52	4.45	3.85	4.36	5.30	1.25	6.20	7.82	2.13	0.61	0.25	1.40	40.14
1956	3.02	3.54	0.85	1.77	4.91	0.64	0.42	2.24	0.55	1.79	3.12	1.16	24.01
1957	2.57	4.80	3.83	17.10	5.76	7.51	0.58	2.34	5.29	8.28	7.24	2.00	67.30

T = Trace, an amount too small to be measured.
M = Missing.

HISTORY OF WEATHER OBSERVATIONS AT
TYLER, TEXAS

Latitude	Longitude	Elevation	Direction and Distance from Post Office	Location of Exposure	Length of Record	Observer Name and Address
32° 21'	95° 18'	531'	unknown	At Depot	Jul 1 1898-May 30 1906	C.E. Wood
32° 21'	95° 24'	527'	6 mi W	Operations Bldg., Pounds Field	Jan 1 1938-Oct 31 1942	CAA
32° 21'	95° 24'	527'	6 mi W	Operations Bldg., Pounds Field	Nov 1 1942-Oct 31 1946	U.S. Weather Bureau
32° 21'	95° 24'	527'	6 mi W	Operations Bldg., Pounds Field	Nov 1 1946-Dec 31 1954	CAA
32° 24'	95° 16'	535'	4 mi NE	Station known as Tyler 4 NE	Sep 30 1954 to date	Dr. Eldon W. Lyle Route 9, Box 105 Tyler, Texas

NOON RELATIVE HUMIDITY (PER CENT) 1948-1957

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1948	64	73	60	51	63	50	51	44	42	41	52	54	54
1949	71	64	60	55	53	53	55	63	54	65	44	66	59
1950	78	64	50	57	58	70	64	66	65	55	50	52	61
1951	52	68	52	52	59	59	57	47	62	59	55	55	56
1952	62	49	49	47	49	53	53	45	38	26	51	60	49
1953	57	53	56	55	61	57	62	57	46	50	48	51	54
1954	64	35	45	55	57	51	44	43	41	56	44	45	48
1955	55	58	56	52	56	50	54	53	52	39	41	47	51
1956	46	51	41	38	48	50	41	39	35	41	41	M	43
1957	63	58	49	63	54	61	47	49	54	51	60	47	55
Aver.	61	57	52	53	56	55	53	51	49	48	49	53	53

M = Missing.

Weather Bureau Climatologist for Texas
U.S. Weather Bureau, Municipal Airport
Austin, Texas