

**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 SEYMOUR, TEXAS

LATITUDE 33° 35' N  
 LONGITUDE 99° 16' W  
 ELEV. (GROUND) 1282 ft.

MEANS AND EXTREMES FOR PERIOD 1939-1968

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
(a)	30	30	30	30		30		13	30	30		22	22				13	13	13	13	13	
Jan	54.3	26.1	40.2	87	1967+	-14	1947	810	1.16	2.00	1949	0.6	7.0	1947			3	0	3	26	*	Jan
Feb	58.6	30.8	44.7	90	1962	2	1951	617	1.25	1.85	1964	0.3	3.3	1951			3	*	2	20	0	Feb
Mar	67.6	37.9	52.8	100	1940	10	1962	434	1.32	2.25	1961	0.3	6.5	1947			3	1	*	4	0	Mar
Apr	77.8	48.9	63.4	103	1939	25	1954	135	2.40	4.48	1967	0					4	5	*	2	0	Apr
May	85.2	58.5	71.9	107	1939	34	1960	30	3.95	6.19	1941	0					6	11	0	0	0	May
Jun	93.3	67.5	80.4	114	1953	48	1964+	1	3.49	3.24	1941	0					5	22	0	0	0	Jun
Jul	98.4	70.8	84.6	114	1939	55	1952	0	2.63	3.75	1968	0					4	27	0	0	0	Jul
Aug	99.3	69.7	84.5	116	1943	52	1966+	1	2.16	3.08	1966	0					4	28	0	0	0	Aug
Sep	90.9	61.5	76.2	112	1939	34	1942	7	2.77	3.44	1951	0					4	16	0	0	0	Sep
Oct	80.6	50.4	65.5	103	1951	23	1957	112	2.50	4.00	1953	0					3	5	0	1	0	Oct
Nov	66.8	35.5	51.2	91	1965	10	1956	413	1.37	2.18	1957	0					3	*	0	8	0	Nov
Dec	56.8	29.4	43.1	90	1954	7	1950	656	1.21	2.52	1954	0.3	7.0	1942			3	0	1	22	0	Dec
Year	77.5	48.9	63.2	116	Aug. 1943	-14	Jan. 1947	3216	26.21	6.19	May 1941	1.5	7.0	Jan. 1947			45	115	6	83	*	Year

(a) Average length of record, years.

+ Also on earlier dates, months, or years.

T Trace, an amount too small to measure.

\* Less than one half.

\*\* Base 65°F

THE CLIMATE OF SEYMOUR, TEXAS

Seymour, county seat of Baylor County, is located in the Low Rolling Plains of North Texas, 51 miles southwest of Wichita Falls. The town marks the site of the crossing of the old Western Trail, which became the principal "through route" for Texas cattle going to northern ranges after 1876, and the route westward to California. Seymour is the commercial center for a large farming and ranching area. The availability of adequate, trainable labor, and the town's favorable location with respect to markets, were influential factors in the establishment of a new garment manufacturing plant at Seymour in 1969. The plant manufactures ladies' and children's sleepwear.

Baylor County is level to hilly, and drains to the Brazos and Wichita Rivers. Soils are sandy, loam, and red types, covered with grass, cedars, and mesquites. Cattle, small grains, and cotton are the chief sources of agricultural income. Over 43 million barrels of oil have been produced in Baylor County since 1924. Sand and gravel are produced also. Lake Kemp, a 20,620-acre reservoir located 18 miles north of Seymour is famous for its freshwater fishing, and furnishes a wide variety of other water sports, picnicking, and camping. Tubs-full of golden brown fish and crispy "hush puppies" are the features of Seymour's Fish Day each May. In July, the town hosts an oldtimer's reunion and a rodeo.

The climate of Seymour is subtropical with dry winters and hot humid summers. Tropical Maritime air masses play a dominant role in determining the climate of the area from April through October, while those air masses of polar origin largely control the climate from November through March. There is a wide range in annual extremes of temperature, characteristic of a continental environment. The mean annual rainfall at Seymour is 26.21 inches with approximately three-fourths of this amount falling during the warm season, April through October. Rainfall, which occurs mostly in the form of thundershowers, may vary considerably from month to month, and from year to year. Since 1906, the wettest year of record is 1941, with a total of 47.96 inches. Only 13.05 inches fell in 1928, the driest year. The prevailing winds at Seymour are southerly to southeasterly throughout the year, except in January and February, when northerly winds are the most frequent. Seasonal variations in relative humidity are small; however, the diurnal range is significant. The mean annual relative humidity is approximately 78

percent at 6:00 a.m., 49 percent at noon, and 46 percent at 6:00 p.m., Central Standard Time. The Seymour area receives approximately 71 percent of the total possible sunshine annually. In an average year, thunderstorms occur on 46 days. The mean annual lake evaporation is estimated at 65 inches.

**Winter:** Surges of Polar Canadian air are common, but cold spells are brief and are not severe. Cold fronts often are accompanied by strong gusty winds and sudden drops in temperature; however, the cloudiness associated with the frontal passages dissipates quickly, and sunshine and southerly winds bring rapid warming. Sunshine is approximately 61 percent of the total possible during this season. Winter is a relatively dry period; only about 14 percent of the total annual precipitation falls during this season. Snow may fall once or twice a month, but accumulations are rare.

**Spring** is a pleasant season. Rapid changes in the weather are experienced often in March. Showery precipitation increases in April and thunderstorm activity reaches a peak in May. Occasionally, late spring and early summer thunderstorms are accompanied by destructive winds and hail. As the spring season progresses, cold fronts become weaker, and temperature changes are moderate. March and April are the windiest months of the year.

**Summer:** Daytime temperatures are hot, with only a few days when maxima do not reach or exceed 90°F. Maxima above 100°F are not uncommon. June may have some very hot days, but thundershowers, occurring on an average of seven days during the month, tend to break the hot spells into short periods. Evaporative-type home air-conditioners operate effectively more than 90 percent of the time in July and August. Automotive air-conditioning is recommended for travel.

**Fall** is a most delightful season. Temperatures are moderate, winds are light, and fair weather persists. Fall is ideally suited for most types of outdoor activities except swimming.

The mean length of the warm season (freeze free period) at Seymour is 214 days. The mean dates of the last occurrence of 32°F or below in the spring, and the first occurrence in the fall, are April 3 and November 3, respectively.

SEYMOUR, TEXAS

Average Temperature (°F)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1939	46.2	42.2	57.6	64.8	75.9	83.6	89.2	86.0	77.0	68.3	52.3	48.2	-
1940	33.4	46.0	57.4	65.8	72.7	77.7	85.1	82.3	77.0	69.1	50.3	44.8	63.3
1941	-	43.4	49.1	62.8	72.2	76.2	82.4	82.4	76.7	67.2	53.0	45.0	-
1942	38.7	44.4	-	63.0	69.3	79.2	82.4	82.4	71.8	63.5	55.0	43.8	-
1943	43.0	49.1	50.8	67.0	68.5	81.0	84.6	88.6	76.8	64.8	52.2	37.8	-
1944	43.0	47.1	50.8	67.0	70.2	81.0	84.6	84.5	76.6	64.8	54.4	-	-
1945	40.8	44.8	55.8	67.7	70.6	80.8	83.0	83.6	76.6	67.4	54.4	-	-
1946	40.8	46.8	58.6	62.2	70.6	80.8	83.0	86.6	75.0	67.4	52.6	47.7	65.7
1947	39.9	40.4	50.4	61.4	73.8	82.3	85.0	87.2	83.4	72.2	55.0	45.0	-
1948	-	40.2	51.7	61.4	73.8	80.6	87.8	83.4	76.7	62.9	50.1	46.1	-
1949	33.2	43.7	51.7	60.1	73.8	80.6	87.8	83.4	76.7	62.9	50.1	46.1	63.0
1950	44.4	49.6	53.0	63.6	71.5	80.4	80.0	79.8	73.8	70.7	50.8	40.7	63.2
1951	43.3	47.9	52.7	63.3	73.1	80.4	87.5	88.6	77.4	67.9	47.5	40.3	64.1
1952	47.9	48.6	52.5	62.8	72.7	86.2	84.9	82.0	78.1	62.5	50.6	42.6	65.1
1953	48.1	46.6	59.2	61.8	73.1	80.3	84.0	82.9	78.1	66.5	52.0	-	-
1954	41.2	53.3	51.6	69.0	66.5	81.8	89.4	89.2	81.9	67.7	53.5	45.3	65.9
1955	42.9	43.4	54.1	67.4	75.5	78.4	85.9	85.3	78.4	63.7	49.7	42.2	63.9
1956	39.3	42.7	53.3	62.0	76.7	83.6	86.7	85.0	77.5	66.1	46.6	43.7	63.6
1957	37.1	48.0	49.4	59.2	68.4	82.1	87.3	84.7	73.1	60.0	46.1	46.2	61.4
1958	38.6	-	58.5	68.4	70.6	82.1	87.3	84.7	73.1	60.0	46.1	46.2	61.4
1959	37.1	43.7	51.2	61.4	73.7	78.7	83.5	84.4	76.9	59.7	42.6	45.3	61.2
1960	40.5	37.4	42.1	62.4	70.7	82.5	80.9	80.9	74.6	64.1	48.9	41.7	61.3
1961	36.5	43.7	54.4	64.8	71.9	76.1	80.8	80.9	74.7	68.4	53.4	43.8	63.4
1962	35.3	50.8	61.9	68.2	72.9	80.2	87.5	84.4	74.7	72.7	53.0	36.6	64.3
1963	34.4	44.6	56.9	68.2	72.9	80.2	87.5	84.4	74.7	72.7	53.0	36.6	64.3
1964	42.3	41.5	50.9	65.7	73.7	79.5	85.5	82.6	75.8	62.5	53.9	42.1	63.4
1965	44.7	42.7	43.0	66.2	72.1	78.4	85.5	82.6	75.8	62.5	58.2	47.3	63.3
1966	34.4	40.5	54.7	66.2	68.6	79.1	85.8	78.7	71.3	63.7	55.1	39.6	62.5
1967	42.6	42.7	59.1	67.7	68.4	79.8	81.3	81.5	71.6	63.7	50.5	40.8	60.9
1968	39.5	39.4	50.5	59.1	59.4	78.6	80.4	82.7	73.1	66.2	50.8	41.2	60.9

SEYMOUR, TEXAS

Total Precipitation (Inches)

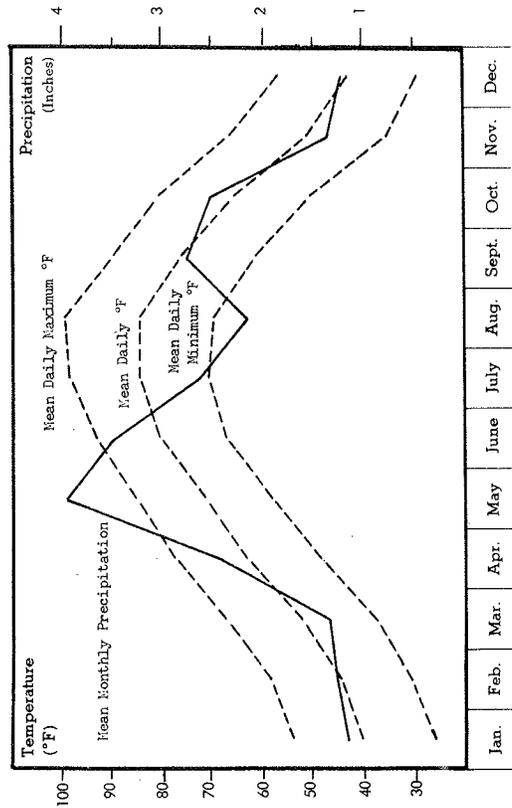
Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1939	2.42	0.34	2.88	1.37	3.94	3.31	0.36	1.70	0.06	0.41	1.48	0.84	19.11
1940	0.25	2.01	0	3.02	3.85	3.64	1.32	4.08	0.94	0.61	2.40	1.19	23.31
1941	0.72	4.12	1.21	5.13	11.52	6.57	3.69	2.71	2.11	7.62	0.76	1.80	47.96
1942	0.45	0.22	0.26	6.11	11.52	1.31	1.43	5.83	3.48	6.89	0.70	2.11	29.57
1943	0.20	0.47	1.23	2.93	2.71	5.36	0.13	0	0.42	1.47	1.09	2.57	19.46
1944	1.81	3.65	1.23	1.28	2.09	5.49	0.32	3.47	0.69	2.90	2.64	1.51	27.08
1945	1.94	2.78	4.43	3.23	4.04	2.91	4.04	2.55	3.76	1.35	0.54	0.12	24.82
1946	1.41	1.17	1.19	0.50	2.24	2.71	0.63	2.38	5.55	1.50	2.42	3.12	27.80
1947	0.70	0.43	1.87	2.40	7.09	1.20	1.35	0	0.37	1.30	2.88	2.45	22.02
1948	0.19	2.06	0.68	1.30	3.04	4.77	2.55	0.09	0.58	1.41	0.03	0.03	16.80
1949	6.59	1.91	0.68	1.26	5.03	5.22	1.68	3.07	5.23	3.95	0	1.14	35.76
1950	0.41	1.31	1.10	2.47	5.95	5.16	8.25	4.57	5.02	0.52	0	0.06	33.72
1951	0.95	0.45	0.80	1.73	4.04	2.87	2.13	3.38	4.32	0.34	0.05	0	20.56
1952	0.30	0.80	0.80	1.73	4.04	2.87	2.13	3.38	4.32	0.34	0.05	0	20.56
1953	0.43	1.21	2.39	1.85	1.19	2.83	5.77	3.43	0.33	7.74	1.06	0.47	28.30
1954	0.77	0.09	0.02	1.34	4.87	2.89	0.12	1.30	0.04	0.61	0.86	0.23	29.12
1955	2.21	0.95	1.34	1.16	4.87	5.87	2.67	0.56	6.47	2.69	0	0.70	14.39
1956	0.63	1.08	0.30	3.12	3.76	2.02	0.54	0.60	0.42	2.96	0.70	0.25	32.26
1957	0.98	1.74	2.11	4.70	7.99	3.11	0.58	0.20	1.84	3.82	5.74	0.19	25.33
1958	1.47	0.82	1.91	2.18	4.36	6.08	5.66	1.01	4.89	1.39	0.65	0.77	27.45
1959	1.64	1.36	0.33	0.26	1.69	2.22	3.55	2.85	2.40	5.03	0.77	2.74	25.39
1960	1.60	1.89	3.81	3.03	6.08	6.12	6.29	0.95	11.06	6.34	0	3.59	26.23
1961	0.33	0.14	0.88	1.00	5.34	4.87	5.07	0.74	4.35	1.25	3.07	0.95	31.94
1962	0.04	0.14	0.06	1.22	5.94	2.58	1.06	1.51	2.03	1.43	2.10	1.06	35.20
1963	0.76	2.17	1.05	1.22	2.55	5.00	0.06	1.81	5.04	0.41	1.99	0.70	20.39
1964	1.05	0.98	0.33	6.25	6.29	2.27	0.79	1.92	1.15	4.17	0.02	0.71	20.33
1965	1.95	1.04	0.38	5.91	1.01	2.36	1.72	8.66	6.62	0.55	0.21	0.14	30.53
1966	0.03	0.16	0.63	6.45	1.90	3.21	5.26	3.12	2.43	2.27	0.85	1.04	27.33
1967	4.30	1.75	3.04	1.42	5.61	1.16	6.47	1.64	1.09	1.38	3.74	0.79	32.41

STATION HISTORY

Temperature and rainfall observations began at Seymour on June 1, 1905. Since that date there have not been any significant changes in the location of the station. Mrs. Veda C. Daugherty, the present Cooperative Weather Observer, was appointed April 21, 1925. On September 10, 1969, Mrs. Daugherty was presented the John Campanius Helm Award in commemoration of her "more than 43 years of loyal service as a volunteer observer at Seymour, and for furnishing daily weather information to the local newspapers, electric utility company, radio station and the general public in a friendly and cooperative manner." Station equipment at Seymour consists of a cotton region shelter, maximum and minimum thermometers, and a standard 8-inch rain gauge. Data are published monthly in CLIMATOLOGICAL DATA-TEXAS. Station index number: 41-8221-02.

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 January 1969

Monthly Temperatures and Precipitation



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.