U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU
IN COOPERATION WITH THE SNYDER CHAMBER OF COMMERCE
CLIMATOGRAPHY OF THE UNITED STATES NO. 20 — 41

LATITUDE 32° 43' N
LONGITUDE 100° 55' W
ELEV. (GROUND) 2325 Ft.

CLIMATOLOGICAL SUMMARY

STATION SNYDER, TEXAS

MEANS AND EXTREMES FOR PERIOD 1934-1963

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	Max. 32° and below	Min. 32° and below	Min. 0° and below	Month
(a)	30	30	30	30		30		9	30	30		30	30				10	10	10	10	10	
Jan	56.0	26.8	41.4	86	1943	-10	1947	772	0.67	0.94	1939	0.8	9.1	1946			2	0	2	25	*	Jan
Feb	61.0	30.3	45.7	88	1940+	-3	1951	554	0.66	2.16	1938	1.1	7.8	1956			2	0	1	16	0	Feb
Mar	68.5	36.9	52.7	97	1946	5	1943	412	0.78	1.30	1943	0.3	3.0	1947+			2	*	1	11	0	Mar
Apr	78.6	47.4	63.0	104	1959	21	1936	144	1.41	2.59	1958	0.1	2.0	1938			3	6	0	1	0	Apr
May	85.8	57.5	71.7	110	1953	35	1945+	24	3.51	3.02	1944	0	0				4	13	0	0	0	May
Jun	89.8	66.5	80.2	114	1934	43	1947	2	2.48	5.05	1939	0	0				5	22	0	0	0	Jun
Jul	96.5	68.6	82.5	111	1936	53	1952	0	2.54	2.58	1935	0	0				4	27	0	0	0	Jul
Aug	95.5	67.8	82.3	115	1936	52	1940	0	1.54	2.44	1942	0	0				2	28	0	0	0	Aug
Sep	88.3	60.4	74.7	108	1952	36	1945	6	1.99	2.30	1961	0	0				3	19	0	0	0	Sep
Oct	83.4	49.6	64.6	99	1956+	27	1957+	100	2.05	3.53	1941	0	0				4	6	0	*	0	Oct
Nov	68.2	35.9	50.9	91	1945	10	1950	433	1.02	2.04	1961	0.1	3.5	1957			2	0	0	10	0	Nov
Dec	49.1	29.3	43.9	88	1940	4	1950	664	0.71	1.55	1946	0.8	5.8	1963			2	0	1	23	0	Dec
Year	77.0	48.1	62.8	115	Aug 1936	-10	Jan 1947	3111	19.33	5.05	Jun 1939	3.2	9.1	Jan 1946			35	121	5	86	*	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.

CLIMATE OF SNYDER, TEXAS

Snyder has a warm temperate climate characterized by dry winters and long summer humidity. It lies in the transition zone between the dry steppe climate of the High Plains and the permanently humid climate of Central and East Texas. Average annual precipitation is 19.33 inches. Four-fifths of this total falls, on an average, during the warmer months of the year, April through October. Thundershowers are the predominant type of rainfall, which results in wide variations in amounts from year to year and from place to place. In the drought years of the nineteen fifties, six years of below average rainfall occurred in succession (1951-1956). From 1957 through 1963 there have been five years of above average rainfall and two years of below average rainfall. The large annual variation in precipitation is illustrated by the wettest and driest years, 1941 and 1951 respectively. Almost five times as much rain was received in 1941 (44.02 in.) as in 1951 (9.38 in.). Quite often, much of the rainfall in exceptionally wet months or years, falls as heavy downpours of short duration, resulting in rapid run-off. Once in every ten years, on an average, Snyder may expect less than 11 inches of rainfall, but it may also expect one year in ten with as much as 24 inches.

Rapid temperature changes occur in winter as surges of cold polar air frequent the area. However, winters are relatively mild, and periods of very cold weather are short. High daytime temperatures prevail for a long period in summer. July is the hottest month with an average daily maximum of 96.5°F. Despite the high daytime temperatures, most summer nights are comfortable with minima in the upper 60's.

Prevailing winds are south to southeasterly. Strongest sustained winds occur in late winter and early spring, and are associated with deep low pressure centers over the Texas or Oklahoma Panhandles. These systems sometimes produce severe dust storms in the general area.

Violent thunderstorms in late spring and early summer are sometimes accompanied by strong, gusty winds, hail, and excessive downpours. These occur most frequently in May.

Mean annual relative humidity is about 76 per cent at 6:00 a.m., and about 43 per cent at 6:00 p.m.

Mean annual evaporation from a standard U. S. Weather Bureau pan is approximately 103 inches. Mean annual lake evaporation is about 71 inches. Approximately 66 per cent of the mean annual evaporation occurs during the period May-October.

The average freeze-free period in Snyder is 214 days; the average date of the last 32° freeze in the spring is April 4, while the average date of the first fall freeze is November 4. Chances are about one in five that a freeze will occur after April 15, or before October 30.

SNYDER, TEXAS

Average Temperature (°F)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1934	44.2	45.7	52.4	64.0	73.5	84.6	86.1	85.1	75.8	70.0	56.6	45.6	65.3
1935	47.0	45.8	58.4	63.4	68.2	77.2	82.2	83.3	69.6	65.8	51.2	43.7	63.0
1936	41.0	41.4	57.2	62.8	73.6	83.6	84.2	85.6	74.6	59.6	48.5	46.2	63.2
1937	36.6	44.4	47.8	62.1	73.5	80.9	84.2	84.2	76.8	63.2	49.9	43.6	62.3
1938	45.3	48.8	58.0	61.6	72.8	79.0	81.3	81.6	76.6	67.0	49.4	43.0	63.7
1939	44.2	42.3	57.0	63.8	72.6	81.2	83.2	80.6	77.4	67.2	49.5	45.2	63.7
1940	32.7	45.2	55.6	63.0	71.8	73.1	80.5	79.7	75.0	66.0	49.4	45.6	61.5
1941	45.2	44.9	48.7	62.0	71.0	76.4	79.2	80.0	74.7	65.8	51.8	46.0	62.1
1942	39.3	45.2	51.6	63.4	69.5	80.8	82.8	80.8	71.2	62.4	57.9	44.0	62.4
1943	40.8	43.0	49.0	67.8	68.9	79.6	82.6	86.0	74.0	62.2	52.0	40.3	62.2
1944	43.4	50.9	48.7	58.1	71.0	80.8	81.1	80.8	71.0	64.4	55.8	40.4	62.2
1945	44.0	46.2	56.8	59.4	72.0	80.0	77.2	80.4	74.8	60.4	55.2	42.2	62.4
1946	39.8	46.8	57.0	66.6	69.0	77.8	83.6	83.0	73.6	66.2	51.3	50.0	63.7
1947	39.6	38.9	47.5	60.6	68.4	79.4	81.6	79.0	77.2	71.7	48.9	47.9	61.7
1948	M	M	53.5	72.6	76.2	84.6	83.5	M	69.6	59.3	46.9	43.3	-
1949	31.1	43.9	50.5	56.5	71.3	78.5	83.2	79.4	72.4	61.2	54.0	43.3	60.5
1950	44.7	48.5	52.2	62.9	69.7	77.8	78.6	78.3	71.0	66.1	48.8	40.3	61.6
1951	41.1	45.5	51.5	61.6	72.9	80.5	85.5	84.8	75.8	65.9	46.9	45.3	63.1
1952	48.2	49.0	50.7	61.4	72.1	84.3	82.7	87.1	73.2	61.0	49.4	42.7	63.5
1953	49.5	44.9	57.9	61.5	71.9	86.8	84.4	81.2	75.9	64.5	51.0	41.5	64.3
1954	43.9	52.3	51.6	67.1	67.3	81.1	85.5	74.9	78.6	65.9	52.3	45.0	64.6
1955	42.3	45.0	54.8	67.6	73.8	80.7	83.4	83.1	77.0	65.8	52.3	46.8	64.4
1956	43.1	43.8	56.3	62.6	76.2	84.1	84.3	83.8	78.0	67.7	49.3	46.5	64.6
1957	41.8	51.4	52.8	60.3	67.6	76.4	84.6	82.7	73.6	61.2	46.5	47.2	62.2
1958	40.7	42.6	45.0	58.9	71.3	83.2	86.2	84.7	76.1	62.0	51.6	42.2	62.1
1959	40.8	43.2	51.3	61.8	72.3	79.6	81.0	84.1	78.8	61.6	46.6	46.9	62.3
1960	41.9	41.7	47.6	65.8	70.4	82.4	81.1	80.3	75.3	66.6	53.5	39.0	62.2
1961	37.6	44.3	54.3	62.1	72.2	75.5	77.3	78.3	73.6	63.7	47.5	41.7	60.7
1962	35.5	51.2	49.1	62.1	75.9	76.7	81.3	82.2	72.7	66.3	53.2	43.8	62.5
1963	34.7	43.8	55.7	67.9	73.3	78.1	83.7	82.6	75.8	68.3	53.5	36.6	62.8

M - Missing

SNYDER, TEXAS

Total Precipitation (Inches)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1934	0.35	0.22	2.70	0.56	0.65	0.30	0.21	1.25	1.58	0.24	2.69	0.03	10.78
1935	0.05	1.03	1.61	0.42	4.07	4.09	4.58	0.21	2.54	1.75	2.11	0.67	23.13
1936	0.64	0.12	0.44	1.03	2.40	0.33	0.92	T	9.01	1.79	0.77	0.61	18.06
1937	0.17	0.25	1.36	0.06	4.25	1.55	1.45	2.38	1.76	0.44	0.68	1.05	15.40
1938	1.55	3.51	1.73	1.00	3.35	2.76	3.51	0.12	0.94	1.22	0.84	0.06	20.59
1939	2.42	0.20	1.00	0.29	6.38	7.46	0.65	2.28	0.00	1.66	1.09	0.71	24.14
1940	0.22	1.50	0.32	1.44	1.37	2.81	0.30	3.51	0.78	0.49	2.63	0.29	15.66
1941	0.91	2.04	2.20	4.85	5.97	5.39	6.70	2.66	2.37	9.81	0.21	0.91	44.02
1942	0.14	0.09	0.54	1.50	1.10	1.48	2.56	6.35	3.59	3.61	0.16	1.50	22.62
1943	0.15	T	1.30	0.60	4.37	2.17	0.19	0.05	0.37	0.25	1.31	1.49	12.25
1944	1.59	1.84	0.20	0.69	7.34	1.11	6.04	1.13	2.22	1.05	2.49	2.41	28.11
1945	1.20	0.36	1.25	1.03	1.45	2.51	5.44	3.00	2.60	4.02	0.34	0.48	23.68
1946	1.53	0.00	0.53	0.41	3.49	2.42	0.04	1.52	0.97	2.71	0.75	2.60	16.97
1947	0.30	0.00	0.92	0.36	6.64	2.13	0.80	1.06	1.77	0.37	1.81	1.60	17.76
1948	0.21	1.98	0.06	0.29	4.38	1.67	8.20	M	M	2.55	0.00	0.00	-
1949	2.30	0.47	0.23	3.22	3.69	3.70	1.04	1.94	2.32	1.82	0.00	0.55	21.28
1950	0.40	0.66	0.00	2.55	7.37	2.00	3.03	0.98	4.20	T	0.00	T	21.19
1951	T	0.60	0.13	1.06	1.42	1.73	0.02	1.42	2.36	0.54	0.06	0.04	9.38
1952	0.12	0.18	0.80	0.75	3.05	0.00	3.74	1.91	2.42	0.00	1.89	0.90	15.76
1953	T	0.44	1.21	1.75	0.79	0.08	1.76	3.30	0.98	3.70	0.10	0.15	14.26
1954	0.30	0.00	0.10	2.75	3.55	1.20	0.18	0.81	0.00	0.64	0.55	0.21	10.29
1955	0.81	0.18	0.39	0.23	6.21	1.61	2.30	0.61	1.56	3.44	0.10	0.15	17.59
1956	0.19	0.36	T	1.47	3.15	0.84	1.88	0.24	T	1.77	0.28	1.01	11.19
1957	0.25	1.30	0.22	3.61	7.13	3.09	2.93	0.82	1.52	1.97	2.88	0.04	25.76
1958	1.11	1.11	1.18	4.49	2.85	2.32	0.33	2.29	1.45	2.41	0.55	0.00	20.09
1959	T	0.21	1.03	0.93	2.66	5.38	5.05	0.37	0.57	3.78	0.18	0.96	21.12
1960	1.40	0.31	0.02	0.28	0.97	0.47	6.28	2.53	0.35	3.70	0.00	1.18	17.49
1961	1.87	0.54	0.66	0.71	2.12	5.90	3.63	0.26	2.95	2.22	3.37	0.56	24.79
1962	0.01	0.00	0.73	1.16	0.22	5.16	2.23	1.36	6.47	2.30	0.69	0.81	21.14
1963	0.00	0.23	0.43	2.68	3.05	2.67	0.17	0.47	1.67	1.15	2.21	0.32	15.05

M - Missing

T - Trace

STATION HISTORY

A temperature and rainfall station was established in Snyder January 1, 1891, but closed in August the same year. The station was re-established in April 1911 at a site about 0.6 mile north of the Snyder Post Office. The station was moved to its present location at the City Water Plant, 1.2 miles south-southeast of the Post Office, April 11, 1960. Climatological data for Snyder are published in Section 30, CLIMATIC SUMMARY OF THE UNITED STATES, for the period May 1911 through 1930, and in CLIMATIC SUMMARY OF THE UNITED STATES - SUPPLEMENT FOR 1931 THROUGH 1952. Data for subsequent years are published monthly in CLIMATOLOGICAL DATA - TEXAS.

Observer	Began	Ended
J. Allen Weaver	April 1911	June 1913
Olin F. Hardy	July 1913	January 1918
William Wilsford	January 1918	July 1929
Miss Dulce E. Jones	August 1929	September 1929
Miss Ida J. Merrill	September 1929	December 1935
Mrs. Wesley Evans	January 1, 1935	November 1937
Mrs. Bessie Johnson	November 1937	October 1941
Mrs. Floise I. Evans	October 1941	November 1942
Mrs. Jimmie C. Wade	November 1942	March 1948
Mrs. Myrtle C. Glover	March 1948	September 1948
Mrs. Lucy G. Strayhorn	September 1948	March 1955
David P. Strayhorn	April 1955	April 10, 1960
City of Snyder	April 11, 1960	

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