CLIMATOLOGICAL SUMMARY

CLIMATOGRAPHY OF THE U. S. NO. 20 - 32

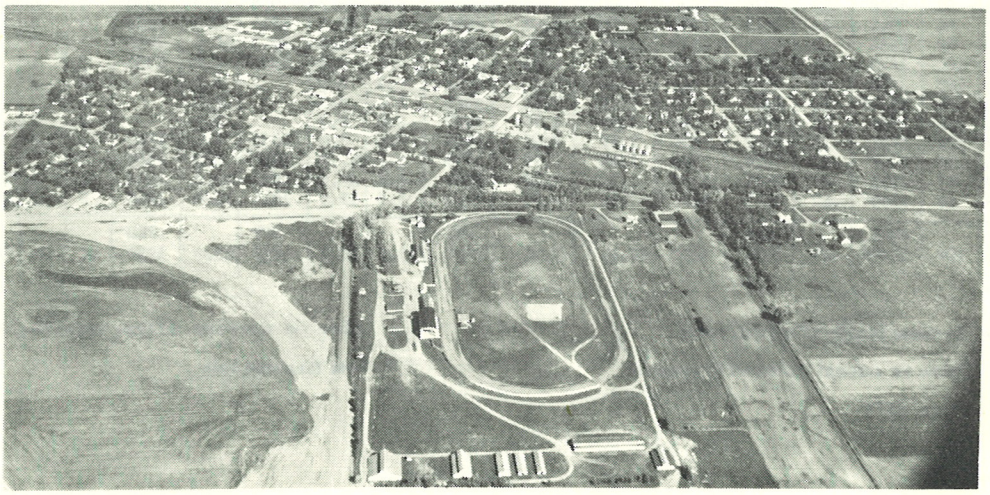
FESSENDEN, NORTH DAKOTA

Latitude 47° 39' N

Longitude 99° 37' W

ELEVATION 1620 FEET

Data Compiled From Official U. S. Weather Bureau Records



Fessenden, North Dakota

Prepared by

Weather Bureau State Climatologis For North Dakota

In Cooperation With

First National Bank

Fessenden North Dakota

CLIMATE OF FESSENDEN, NORTH DAKOTA

Fessenden is located in central Wells County in central North Dakota very near the geographic center of North America. The surrounding country is flat, fertile farmland. The main cash crops of this area are spring wheat, and barley, with flax and oats also grown. Cattle raising is becoming an important industry.

This summary of the climate of Fessenden generally applies to other areas of Wells County.

The climate is typical of the Great Plains with warm summers and cold winters. The frequent passage of weather systems across the area brings a variety of weather in all seasons and wide variations in temperature from day to day and month to month. Summers are warm and pleasant with sunny days and cool nights. Maximum temperatures during the three summer months average only 81 degrees. Temperatures of 90 degrees or more occur on an average of 19 days per year ranging from 3 in the coolest summers to 51 in 1936. Temperatures during the winter months of December, January, and February average about 10 degrees, but maximum temperatures exceed 32 degrees on 21 days during these months. During outbreaks of cold arctic air temperatures drop to below zero on 57 days each year.

The annual precipitation at Fessenden is 17.44 inches, of which three-fourths falls in the growing season, April through September and about 50% falls in the months of May, June, and July. Annual precipitation has ranged from over 25 inches in 1941 to about 9 inches in 1934. Summertime precipitation is usually in the form of thunderstorms; about 30 storms are reported per year with normally 7 in each of the months of June, July, and August. June is usually the wettest month of the year and June, 1928, when 7.66 inches of precipitation was reported, is the wettest month of record. Precipitation of .10 inch per day can be expected on an average of 44 days per year and rainfall of 1.00 inch or more per day occurs about twice each year. The likelihood of 1.00 or more of rain in a 7-day period is greatest the second week in June when the chance is 3 years in 10. The likelihood of a dry 7-day period, trace or less, is greatest the first week in November when the chance is 6 years in 10. Intensities of about 1.10 inches or more in 1 hour, 1.50 inches in 6 hours, and 2.00 inches in 24 hours can be expected once in two years. Thirty-three inches of snow can be expected each year in Fessenden, but snowfall has varied from 8 inches in 1911-1912 to about 64 inches in 1948-1949. Thirteen inches of snow fell on February 25, 1930, for the greatest single day amount. The greatest in one month is 20 inches in November, 1955. Measurable snow can be expected one year in two in October, 3 years in 5 in April, and once in 10 years in May. Snow usually covers the ground from the end of November until the middle of March.

Wind, sunshine, and relative humidity records are not available but the following data from Devils Lake should approximate conditions at Fessenden. Prevailing winds are from the northwest in all months except June and August when southeasterly winds predominate. The average wind movement during the year is about 10 miles per hour. March, April, and May are slightly windier than the other months. Sunshine averages about 60% of the possible amount ranging from 45% in winter to about 70% in summer. About 220 days during the year are classified as either clear or partly cloudy. Hot, humid days are rare. Relative humidity in the summer ranges from 85% in the early morning to 50% in the late afternoon and during the winter averages about 75% day and night.

Alfred A. Skrede
State Climatologist
U. S. Weather Bureau
Bismarck, North Dakota

MEANS AND EXTREMES FOR PERIOD

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)	50	50	50	50		50		50	50	50		50	50		50		50	50	50	50	50	
J	16.7	-4.9	5.9	51	1914	-44	1916	1830	.52	.51	1949	6.1	12.3	1954	7.0	1949	2	0	26	31	19	J
F	21.5	-0.4	10.6	63	1958	-47	1936	1520	.50	1.27	1930	5.5	18.7	1948	13.0	1930	2	0	21	28	15	F
M	34.5	13.0	23.7	80	1946	-33	1948	1280	.70	1.02	1946	5.9	17.5	1916	12.0	1950	3	0	13	30	6	M
A	53.4	28.5	41.0	92	1952	-7	1954	720	1.36	1.96	1940	2.2	12.0	1933	10.0	1933	3	*	2	20	*	A
M	67.1	39.9	53.4	100	1925	15	1918	390	2.29	2.65	1912	0.4	8.0	1950	4.0	1953	5	1	0	7	0	M
J	75.8	49.5	62.7	103	1931	28	1935	140	3.46	3.42	1914	0.0	0.0		0.0		7	2	0	*	0	J
J	83.6	55.0	69.3	109	1929#	34	1917	50	2.55	3.57	1940	0.0	0.0		0.0		6	7	0	0	0	J
A	82.6	52.1	67.4	106	1925	26	1915	60	2.29	3.75	1918	0.0	0.0		0.0		5	7	0	*	0	A
S	71.2	42.2	56.7	106	1931	15	1927	270	1.62	2.91	1947	0.1	3.0	1934	2.0	1942	4	2	0	4	0	S
O	57.7	31.3	44.5	93	1920	-10	1919	640	1.05	1.75	1959	1.6	11.8	1959	7.0	1959	3	*	1	17	*	O
N	37.1	16.4	26.7	73	1931	-23	1921	1150	.74	1.14	1929	5.8	20.0	1955	10.0	1929	2	0	11	28	4	N
D	23.2	2.5	12.9	67	1939	-42	1917	1620	.56	.93	1960	5.8	18.5	1916	10.0	1960	2	0	22	31	13	D
Year	52.0	27.1	39.6	109	JULY 1929#	-47	FEB 1936	9670	17.44	3.75	AUG 1918	33.4	20.0	NOV 1955	13.0	FEB 1930	44	19	96	196	57	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.

MONTHLY AND SEASONAL SNOWFALL

	SEPT.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	TOTAL
1911-1912	0	T	2.5	2.2	2.8	T	0.5	0	0	8.0
1912-1913	T	3.0	0.5	2.0	3.3	T	9.3	2.5	T	20.6
1913-1914	0	0.5	0.5	T	7.8	3.5	11.0	4.5	T	27.8
1914-1915	0	0	2.5	2.8	3.5	0.5	1.0	0.2	0.2	10.7
1915-1916	0	T	4.2	4.8	10.0	2.5	17.5	3.8	0	42.8
1916-1917	0	2.0	2.0	18.5	9.5	10.5	0.5	3.0	T	46.0
1917-1918	0	3.5	1.8	9.8	4.2	1.0	1.0	6.0	0	27.3
1918-1919	0	1.0	13.0	13.5	2.5	9.5	4.0	3.0	1.0	47.5
1919-1920	T	8.5	14.5	8.5	11.5	1.5	6.0	2.0	0	52.5
1920-1921	0	0	2.5	2.0	0.2	2.0	6.5	1.5	0	14.7
1921-1922	0	T	13.9	5.5	4.1	10.5	4.3	2.0	0	40.3
1922-1923	0	1.0	1.1	12.2	4.7	13.5	4.8	3.3	0	40.6
1923-1924	0	1.5	0	3.3	3.7	5.3	2.0	4.8	0	20.6
1924-1925	0	0	0.9	4.8	0.8	5.1	3.0	0	0	14.6
1925-1926	0	5.0	T	4.3	3.0	4.8	2.6	0.5	0	20.2
1926-1927	0	2.5	6.5	3.5	4.5	4.0	7.5	0	0	28.5
1927-1928	0	0	4.8	3.5	2.5	0.5	9.0	5.5	0	25.8
1928-1929	0	0	0	3.8	5.1	3.0	4.0	3.0	0.5	19.4
1929-1930	0	2.5	13.5	13.0	2.5	17.5	2.0	0	0	51.0
1930-1931	0	T	10.0	1.2	3.0	1.5	4.0	T	0	19.7
1931-1932	0	1.0	8.0	0	4.8	7.0	7.5	0.1	5.0	33.4
1932-1933	0	10.0	7.8	0	10.5	5.5	6.0	12.0	0	51.8
1933-1934	0	2.2	12.0	15.5	3.5	0.4	4.0	0	0	37.6
1934-1935	3.0	0	0	3.5	6.0	2.5	10.0	2.1	3.0	30.1
1935-1936	0	0.3	12.5	11.0	10.0	14.6	8.5	0.5	0	57.4
1936-1937	0	2.0	3.5	4.0	10.7	8.9	1.0	2.5	0	32.6
1937-1938	0	0	3.5	9.0	4.3	8.6	1.0	0	0	26.4
1938-1939	0	0	9.0	4.6	4.0	13.2	5.0	2.0	0	37.8
1939-1940	0.5	0.6	T	0.1	4.0	6.7	5.0	2.0	0	18.9
1940-1941	0	0	8.5	3.0	8.0	4.0	11.0	0	0	34.5
1941-1942	0	T	8.8	2.0	1.0	16.0	12.5	6.5	0	46.8
1942-1943	2.0	0.4	1.1	14.9	8.7	5.2	12.1	0	0.5	44.9
1943-1944	0	2.0	3.0	2.0	0.4	5.1	8.9	T	0	21.4
1944-1945	T	0	9.5	4.0	5.1	0.3	2.0	2.7	T	23.6
1945-1946	T	T	8.3	12.2	7.6	9.2	1.0	1.0	0.7	40.0
1946-1947	0	5.3	4.3	12.4	5.2	2.6	4.5	8.9	0	43.2
1947-1948	0	2.3	13.5	6.4	5.3	18.7	8.0	1.0	0	55.2
1948-1949	0	0	8.0	14.0	32.0	5.0	4.9	0	0	63.9
1949-1950	0	3.3	1.0	7.0	6.9	2.3	11.5	7.0	8.0	47.0
1950-1951	0	4.3	14.1	2.6	6.9	3.6	-	0	0	
1951-1952	0	2.2	2.3	2.4	11.9	8.5	11.5	0	0	38.8
1952-1953	0	0.5	T	2.9	2.5	2.0	3.0	6.5	4.0	21.4
1953-1954	0	0	6.5	5.0	12.3	0.0	8.6	3.0	T	35.4
1954-1955	0	T	0.5	T	5.0	7.0	3.2	0	0	15.7
1955-1956	0	T	20.0	3.0	12.0	2.0	16.0	0	0	53.0
1956-1957	0	0	5.0	1.7	7.0	2.2	2.0	1.0	0	18.9
1957-1958	0	0	4.7	4.0	4.1	2.4	2.1	0	0	17.3
1958-1959	0	0	10.8	2.2	4.8	6.8	6.4	T	0	31.0
1959-1960	0	11.8	12.1	1.3	9.4	2.3	6.1	2.3	0	45.3
1960-1961	0	0	3.0	17.0	2.0	6.0	0.6	4.0	0	32.6
1961-1962	0	0	0.5	9.6	8.0	3.6	9.5	T	0	31.2

Average Temperature (°F)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1912	-7.2	10.4	14.9	43.7	52.8	60.8	64.4	62.4	51.3	43.2	31.0	18.8	37.2
1913	2.1	5.6	15.7	45.8	51.0	65.3	64.4	68.3	57.4	39.2	33.4	22.8	39.2
1914	13.6	-1.0	24.7	39.4	54.0	60.6	70.8	62.6	57.0	49.8	29.4	4.5	38.8
1915	4.2	16.6	24.2	47.4	49.8	55.2	61.2	62.6	54.0	45.2	27.6	14.0	33.5
1916	-8.1	5.2	19.9	38.0	49.8	56.7	72.0	65.2	54.4	38.9	26.4	-0.6	34.8
1917	-0.4	-2.6	21.6	35.8	49.5	57.9	69.1	63.4	53.2	31.4	35.8	-1.0	34.5
1918	-3.0	9.9	34.0	39.8	47.9	60.0	62.3	65.0	51.0	45.0	27.0	16.6	38.0
1919	16.3	5.4	15.5	40.4	54.4	65.4	69.6	66.8	57.4	32.6	14.8	6.0	37.1
1920	-0.4	11.1	22.0	31.2	52.5	61.4	66.8	68.0	58.0	48.1	26.3	10.6	38.0
1921	14.6	18.2	22.0	40.2	53.2	67.0	70.0	66.2	57.4	46.8	19.4	15.6	40.9
1922	5.9	0.0	25.1	40.0	54.6	64.2	65.1	69.5	60.0	44.6	30.9	7.7	39.0
1923	8.0	0.8	15.2	39.4	56.9	69.4	74.0	65.1	60.7	48.4	37.4	23.7	41.6
1924	2.7	20.5	26.2	39.4	46.7	60.2	67.4	65.4	55.5	50.2	25.8	2.2	38.5
1925	6.4	14.0	25.4	47.7	53.9	62.4	67.6	68.6	58.7	33.2	28.0	15.0	40.1
1926	17.2	21.3	24.6	42.2	58.4	60.6	70.4	64.6	52.4	41.9	21.4	10.0	40.4
1927	8.8	13.0	31.0	41.0	47.4	61.7	66.0	63.7	57.0	47.1	20.3	-2.0	37.9
1928	12.3	19.0	25.8	34.8	57.9	58.8	66.3	65.1	53.9	43.6	30.6	20.0	40.7
1929	-4.6	3.5	31.4	40.8	47.8	60.3	71.7	69.2	52.0	46.3	23.8	10.2	37.7
1930	-2.2	20.8	25.8	46.2	50.0	64.0	73.2	70.8	56.4	40.6	26.2	19.6	41.0
1931	20.7	27.7	25.0	42.4	53.8	69.1	70.0	66.1	60.4	46.7	29.8	19.6	44.3
1932	7.6	11.3	17.5	42.0	54.7	67.0	69.2	68.1	56.0	37.2	24.5	12.4	39.0
1933	10.2	6.2	26.8	38.2	54.3	70.0	70.8	68.6	61.0	39.5	26.0	6.2	39.8
1934	12.4	18.0	25.1	42.0	62.4	63.8	71.0	66.6	51.8	48.8	33.0	11.4	42.2
1935	1.1	24.8	24.4	37.5	48.2	60.3	73.3	64.6	56.6	42.0	14.2	9.5	38.0
1936	-9.7	-15.6	23.8	34.4	59.8	65.8	81.0	69.2	59.4	41.2	25.2	12.8	37.3
1937	-11.2	3.4	23.8	39.4	56.4	62.3	70.7	72.6	57.6	43.0	23.1	8.2	37.4
1938	6.2	3.6	32.4	42.4	51.4	63.2	68.7	68.7	60.6	51.2	24.6	17.4	40.9
1939	11.2	-2.8	23.2	41.2	61.7	59.6	72.2	69.3	58.0	41.2	34.2	26.4	41.3
1940	2.6	14.4	20.8	37.8	54.6	63.1	71.8	68.2	63.2	50.2	21.8	18.7	40.1
1941	9.1	11.9	24.4	44.1	57.7	63.9	70.9	68.5	55.8	44.5	29.1	22.4	41.9
1942	17.6	13.9	30.2	45.1	49.6	60.3	66.6	65.8	53.7	46.4	28.8	9.2	40.6
1943	-2.0	14.4	17.8	45.8	50.4	60.4	71.2	68.0	55.8	49.0	27.9	21.6	40.0
1944	21.4	9.9	16.6	40.8	58.8	62.2	68.0	66.2	56.5	49.4	25.8	14.3	40.9
1945	11.4	14.8	33.1	38.2	47.4	58.3	67.8	67.8	55.2	44.8	18.4	3.0	38.3
1946	8.9	7.6	33.6	48.8	51.1	63.8	71.4	66.4	57.2	40.7	25.3	12.2	40.6
1947	15.2	7.2	22.2	40.2	50.6	60.0	70.8	72.1	56.5	51.2	22.5	11.6	40.0
1948	8.0	6.2	15.5	38.0	55.0	63.0	69.6	69.0	64.7	46.5	28.6	10.8	39.6
1949	1.9	2.6	20.4	48.5	55.8	63.4	69.2	70.6	57.3	44.8	35.8	6.8	39.8
1950	-10.9	6.8	18.2	31.5	49.5	61.8	65.8	64.5	57.5	47.4	20.1	6.6	34.9
1951	2.4	11.4	-	-	56.1	58.1	68.3	63.5	53.5	42.2	20.9	5.6	-
1952	1.3	16.4	17.1	49.2	55.3	63.9	68.0	66.6	61.3	42.6	31.5	18.1	40.9
1953	13.4	19.4	25.5	36.0	52.3	62.9	67.6	69.7	56.9	51.4	33.9	19.1	42.4
1954	-2.8	29.3	23.1	39.4	49.9	62.3	69.6	-	54.8	44.5	34.8	22.8	-
1955	10.6	6.3	19.9	48.9	58.1	62.6	71.4	71.2	57.4	47.1	15.1	4.1	39.4
1956	6.0	7.1	19.0	35.8	54.1	69.2	66.5	67.6	54.9	49.8	29.6	18.9	39.9
1957	3.2	12.9	27.4	41.4	54.3	62.5	74.1	67.3	55.5	44.6	30.4	23.5	41.4
1958	17.8	10.1	28.5	44.1	58.0	60.3	65.2	69.5	58.8	47.5	27.8	11.5	41.6
1959	3.2	7.6	33.6	42.6	52.9	67.0	71.7	71.4	56.5	39.5	20.4	23.6	40.8
1960	8.2	10.8	16.8	42.1	55.4	61.6	71.7	68.2	59.2	47.5	29.3	14.1	40.4
1961	11.8	18.8	32.7	38.7	52.8	69.0	69.1	74.0	54.1	47.8	28.9	7.7	42.1
Average	5.9	10.6	23.7	41.0	53.4	62.7	69.3	67.4	56.7	44.5	26.7	12.9	39.6

Total Precipitation (Inches)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1912	.24	T	.15	2.37	6.80	4.53	3.18	2.83	2.17	.89	.02	.30	23.48
1913	.36	T	1.05	1.25	.96	1.90	1.66	2.23	1.41	1.66	.08	.11	12.67
1914	.72	.30	1.10	.91	2.85	6.58	1.46	3.79	1.14	1.06	.36	.24	20.51
1915	.32	.05	.25	1.24	1.88	6.53	2.83	1.25	3.17	.26	.46	.54	18.78
1916	1.07	.27	1.93	1.01	1.74	4.00	3.31	1.04	1.04	.43	.22	1.85	17.91
1917	1.00	1.08	.05	1.54	.08	2.97	2.84	.85	1.96	.45	.17	.95	13.94
1918	.44	.10	.24	2.01	2.90	2.58	3.14	5.93	.13	.57	1.71	1.35	21.10
1919	.25	.95	.70	1.30	2.97	3.52	.72	2.02	.88	.80	1.50	.90	16.51
1920	1.15	.15	.86	.65	.82	3.02	2.12	2.36	1.09	T	.75	.55	13.52
1921	.43	.40	.91	3.13	1.75	4.90	3.41	1.46	4.17	1.70	1.40	1.04	24.70
1922	.40	1.06	.74	.95	3.54	4.43	1.64	3.28	2.01	.67	2.45	1.37	22.54
1923	.45	1.40	.53	.82	1.08	1.32	2.65	1.38	2.31	1.18	.78	.29	14.19
1924	.41	.45	.25	4.18	.69	4.75	.61	.92	3.36	1.96	.15	.37	18.10
1925	.07	.44	.55	1.89	1.16	5.43	.84	1.42	2.75	.75	T	.49	15.79
1926	.45	.97	.50	.45	2.24	1.84	2.72	2.38	2.21	1.08	.66	.34	15.84
1927	.46	.40	1.30	1.74	6.27	2.83	2.12	3.71	.42	1.84	.66	.33	22.08
1928	.21	.08	1.06	1.19	2.43	7.66	3.03	2.42	.63	.00	.48	.38	19.57
1929	.42	.28	.89	1.13	2.00	1.16	1.10	.94	2.06	1.56	1.60	.97	14.11
1930	.27	2.04	.18	.88	2.99	2.70	.96	1.07	1.14	1.90	.98	.08	15.19
1931	.25	.14	.70	.75	1.65	1.75	3.52	3.71	2.22	1.74	.74	.00	17.17
1932	.45	.69	.79	1.98	2.70	5.24	1.61	3.20	.89	2.47	.78	.06	20.86
1933	.92	.41	.77	2.04	3.31	1.37	2.03	.39	.59	.34	1.13	1.58	15.38
1934	.35	.04	.46	.35	.12	2.09	1.83	1.22	.91	1.37	.16	.35	9.25
1935	.53	.25	1.11	2.27	2.84	1.11	7.26	2.43	.44	.26	1.38	1.02	20.90
1936	.78	1.34	.88	.09	.04	.92	.95	2.62	2.04	.29	.25	.35	10.55
1937	.91	.81	.19	.84	2.28	4.91	3.19	.59	.82	.91	.49	.86	16.80
1938	.41	.74	.61	1.20	2.08	1.89	4.66	.89	.12	.66	.89	.37	14.52
1939	.30	.66	.35	1.03	1.76	5.36	2.01	1.79	.30	.72	.02	.42	14.72
1940	.13	.56	.68	3.08	2.12	1.44	7.13	.79	.51	2.34	.79	.28	19.85
1941	.70	.28	.93	2.30	2.75	4.91	2.58	4.16	3.66	1.80	.89	.22	25.18
1942	.08	.90	1.56	2.58	4.43	3.77	2.63	2.71	1.37	.25	.09	1.03	21.40
1943	.60	.41	1.01	2.27	1.47	3.33	2.10	1.24	.45	.40	.24	.12	13.64
1944	.02	.32	.57	.40	4.37	5.22	1.64	3.48	.86	.00	2.29	.27	19.44
1945	.39	.02	1.38	.53	.92	1.09	3.71	1.33	2.19	.43	.80	.98	13.77
1946	.51	.72	1.59	.24	2.62	2.33	1.56	1.86	2.30	1.95	.31	.91	16.90
1947	.37	.29	.24	1.23	.94	4.97	3.60	1.32	5.42	2.46	1.17	.48	22.49
1948	.38	1.51	.53	2.68	1.33	4.87	3.35	1.66	.16	1.20	1.06	.88	19.61
1949	2.39	.39	.49	.65	1.61	2.85	3.03	.72	.36	3.41	.13	.57	16.60
1950	.69	.19	1.15	.67	2.96	3.12	1.42	1.52	2.07	.53	.91	.23	15.46
1951	.40	.25	.30	.57	.66	3.84	1.26	4.39	1.50	.29	.33	.24	14.03
1952	1.19	.57	.91	.02	1.10	4.08	1.73	2.58	.92	.13	.16	.17	13.56
1953	.21	.15	.87	2.58	3.88	4.59	2.65	.57	1.12	.85	.62	.87	18.96
1954	1.04	.13	.74	1.24	2.52	4.57	2.57	2.63	3.55	.45	.33	T	19.77
1955	.34	.87	.43	1.82	3.11	4.49	2.52	1.34	1.88	.36	1.08	.29	18.53
1956	.78	.20	1.30	.17	2.84	4.17	2.85	2.76	.98	.59	2.38	.38	19.40
1957	.36	.12	.14	.60	2.14	2.32	5.57	6.11	1.53	2.54	.60	.21	22.24
1958	.35	.70	.18	1.51	1.39	3.38	3.08	.52	1.44	.87	1.06	.15	14.63
1959	.22	.41	.45	.43	3.06	2.09	.90	.13	2.13	2.79	.86	.26	13.73
1960	.55	.20	.56	1.17	5.05	3.18	1.09	3.45	.16	.65	.27	1.45	17.78
1961	.07	.44	.07	2.12	1.36	1.04	2.94	.98	4.05	.19	.18	.72	14.16
Average	.52	.50	.70	1.36	2.29	3.46	2.55	2.29	1.62	1.05	.74	.56	17.44

PROBABILITY OF FREEZE OCCURRENCE IN SPRING

Date on which chance of last occurrence of indicated temperature (or lower) decreases to

Temp. (°F)	90%	75%	50%	25%	10%
32	May 6	May 13	May 20	May 27	Jun. 3
28	Apr. 25	May 2	May 9	May 16	May 23
24	Apr. 16	Apr. 24	May 2	May 10	May 18
20	Apr. 4	Apr. 12	Apr. 20	Apr. 29	May 6
16	Mar. 21	Mar. 29	Apr. 7	Apr. 16	Apr. 24

PROBABILITY OF FREEZE OCCURRENCE IN FALL

Date on which chance of first occurrence of indicated temperature (or lower) increases to

Temp. (°F)	10%	25%	50%	75%	90%
32	Sept. 3	Sept. 9	Sept. 15	Sept. 21	Sept. 27
28	Sept. 12	Sept. 18	Sept. 25	Oct. 2	Oct. 8
24	Sept. 23	Oct. 1	Oct. 9	Oct. 17	Oct. 25
20	Sept. 30	Oct. 8	Oct. 17	Oct. 26	Nov. 3
16	Oct. 12	Oct. 20	Oct. 29	Nov. 7	Nov. 15

Monthly Minimum Temperature (°F)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1912	-42	-26	-20	20	25	34	35	37	20	15	6	-16	-42
1913	-37	-30	-23	23	26	31	39	42	23	4	5	-15	-37
1914	-22	-32	-15	10	21	33	43	33	31	18	-16	-38	-38
1915	-40	-7	-2	10	26	29	37	26	29	12	4	-15	-40
1916	-44	-31	-20	13	23	33	42	33	21	4	-12	-42	-44
1917	-38	-46	-26	14	21	29	34	30	24	3	6	-42	-42
1918	-34	-32	-4	10	15	35	36	38	19	15	-6	-34	-34
1919	-41	-33	-25	17	23	30	44	37	21	-10	-23	-30	-41
1920	-36	-31	-24	0	22	30	43	34	23	8	-5	-30	-36
1921	-23	-27	-22	10	21	33	46	34	29	22	-23	-29	-29
1922	-40	-31	-14	9	32	39	37	44	27	13	9	-25	-40
1923	-18	-35	-23	12	27	42	50	41	32	21	12	-	
1924	-33	-18	-2	15	22	31	40	34	29	28	-7	-33	-33
1925	-22	-26	-19	18	17	39	38	40	27	-5	-4	-17	-26
1926	-20	-5	-14	8	20	29	41	40	19	8	-5	-26	-26
1927	-28	-20	7	16	30	35	37	35	15	25	-6	-30	-30
1928	-31	-9	-13	-3	25	34	43	28	20	7	1	-27	-31
1929	-33	-37	-2	15	16	30	44	36	19	21	-9	-28	-37
1930	-33	-15	-5	18	26	35	43	40	16	10	-13	-17	-33
1931	-15	-16	-8	11	22	34	43	36	31	20	-1	-12	-16
1932	-28	-24	-20	13	30	46	42	38	30	17	-9	-20	-28
1933	-15	-35	-8	8	29	36	43	36	28	11	-2	-31	-35
1934	-24	-21	-7	14	24	41	39	30	23	20	7	-34	-34
1935	-35	-9	-18	11	29	28	52	34	24	8	-20	-27	-35
1936	-39	-47	-16	-3	27	35	49	42	26	-1	-11	-25	-47
1937	-37	-28	1	12	25	30	46	45	26	11	-16	-22	-37
1938	-28	-28	0	10	27	35	41	40	28	17	-12	-30	-30
1939	-26	-39	-13	5	29	37	44	39	18	4	5	-11	-39
1940	-27	-22	-8	5	26	38	47	40	26	26	-20	-25	-27
1941	-19	-26	-9	16	27	39	39	43	27	13	-5	-9	-26
1942	-29	-23	9	2	22	34	42	41	18	7	-5	-21	-29
1943	-34	-18	-16	18	22	34	50	40	28	15	5	-17	-34
1944	-17	-30	-18	7	23	37	45	43	33	18	-10	-15	-30
1945	-	-15	-21	19	17	32	40	40	24	13	-14	-29	-29
1946	-28	-31	-6	21	23	31	46	40	28	14	-11	-28	-31
1947	-24	-25	-11	12	19	34	42	42	24	26	-10	-23	-25
1948	-32	-27	-33	1	30	42	49	46	34	12	0	-17	-33
1949	-31	-27	-13	20	30	40	43	39	26	20	5	-21	-31
1950	-34	-18	-18	9	28	33	46	36	34	23	-15	-27	-34
1951	-35	-23	-	-	28	33	42	43	27	8	-13	-30	-35
1952	-	-13	-27	18	30	38	42	38	31	7	-10	-7	-
1953	-22	-16	-17	5	20	34	44	43	27	18	6	-11	-22
1954	-36	-10	-13	-7	20	35	44	-	29	15	0	-8	-36
1955	-21	-30	-20	21	23	40	42	39	25	11	-22	-30	-30
1956	-21	-28	-20	10	27	40	47	34	25	18	-2	-17	-28
1957	-30	-19	-4	5	27	38	50	43	26	25	0	-23	-30
1958	-10	-29	2	15	22	35	42	32	31	20	-17	-20	-29
1959	-34	-34	8	20	24	-	45	40	25	17	-11	-1	-34
1960	-24	-20	-20	15	23	40	41	38	23	20	-15	-27	-27
1961	-31	-17	10	8	22	38	44	-	25	17	30	-22	-31

Monthly Maximum Temperature (°F)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1912	34	42	58	76	84	96	91	89	92	85	56	48	96
1913	37	38	55	89	97	99	96	99	97	86	65	59	99
1914	51	48	64	75	84	84	97	94	90	91	64	47	97
1915	35	37	49	88	84	79	87	90	94	77	71	40	94
1916	33	43	47	72	84	80	97	98	94	77	68	58	98
1917	38	38	60	60	61	93	109	99	91	75	70	43	109
1918	39	48	70	74	91	98	97	98	80	78	58	50	98
1919	42	43	41	74	94	92	99	97	90	82	45	46	99
1920	33	38	60	58	83	91	94	100	92	93	60	40	100
1921	39	57	59	76	90	99	104	98	95	84	62	47	104
1922	38	34	50	72	83	98	93	101	97	91	56	42	101
1923	40	39	45	80	87	95	99	92	92	75	68	-	99
1924	44	58	50	72	82	86	96	98	87	80	55	45	98
1925	49	56	70	85	100	92	106	106	103	58	63	61	106
1926	49	49	70	91	99	102	100	100	87	70	56	45	102
1927	43	44	63	74	81	94	93	94	94	85	53	36	94
1928	46	49	67	79	97	85	90	94	90	76	63	50	97
1929	33	39	69	75	80	94	109	103	104	83	46	42	109
1930	28	55	57	76	89	89	103	100	92	70	66	42	103
1931	50	57	49	83	98	103	108	99	106	83	73	43	108
1932	40	62	53	73	93	85	103	97	93	80	55	51	103
1933	41	45	61	75	87	105	105	98	96	75	54	51	105
1934	40	50	62	87	108	93	108	103	88	87	66	45	108
1935	39	51	61	70	73	89	101	103	95	82	39	32	103
1936	28	35	47	76	97	107	116	103	94	89	60	54	116
1937	32	35	52	70	95	99	100	103	98	87	63	36	103
1938	37	42	65	78	81	98	96	98	98	86	52	42	98
1939	38	40	73	87	98	89	101	101	97	77	66	67	101
1940	44	48	45	70	88	92	98	95	98	76	48	43	98
1941	42	42	55	79	94	94	100	105	92	73	56	60	105
1942	49	40	61	84	79	82	90	96	88	81	60	36	96
1943	39	43	56	80	84	87	92	92	85	87	58	49	92
1944	51	36	43	67	89	88	95	94	84	81	60	40	95
1945	-	44	72	70	80	93	91	99	100	82	54	35	100
1946	35	40	80	83	84	95	102	98	94	78	62	44	102
1947	44	39	51	86	81	79	95	106	94	84	55	39	106
1948	37	39	43	70	92	91	97	94	100	78	49	43	100
1949	40	41	41	84	86	92	99	101	85	86	70	53	101
1950	22	35	45	71	80	90	92	92	91	80	61	40	92
1951	37	39	-	-	87	84	94	92	78	79	48	44	94
1952	42	40	48	92	88	91	95	99	98	73	65	46	99
1953	50	44	57	77	83	93	90	101	91	92	68	42	101
1954	38	51	51	75	87	91	92	-	84	78	68	51	92
1955	35	40	67	82	91	90	100	97	95	90	63	39	100
1956	40	36	43	70	87	94	89	95	88	84	55	52	95
1957	33	48	59	83	81	85	102	94	82	82	58	51	102
1958	47	63	60	80	88	94	95	104	92	84	70	45	104
1959	42	38	64	82	86	99	105	101	104	73	49	44	105
1960	40	41	52	69	90	87	101	95	94	89	68	44	101
1961	44	49	62	82	85	102	94	102	86	88	67	54	102

OBSERVERS AT THE FESSENDEN STATION HAVE BEEN:

George T. Seymour	October 13, 1911	to	September 30, 1920
F. D. Monson	October 1, 1920	to	October 31, 1930
John V. Zuber	November 1, 1939	to	August 8, 1952
Emil E. Rust	August 8, 1952	to	Present

STATION HISTORY

A Climatological Station was established in Fessenden on October 13, 1911, but its exact location is unknown. On October 1, 1920, the weather instruments were moved to a location four-tenths of a mile northeast of the post office at the observer's home where they remained until August 8, 1952. Since that time the station has been located three-tenths of a mile south-southeast of the post office. The maximum and minimum thermometers, and the standard rain and snow gages are located over sod under standard regulations.