CLIMATOLOGICAL SUMMARY

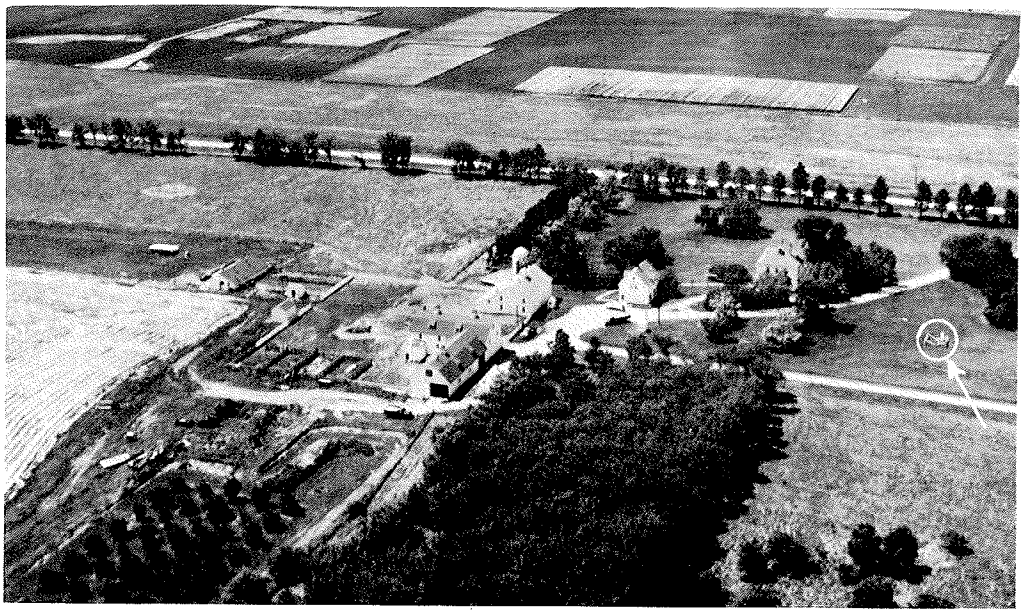
CLIMATOGRAPHY OF THE U. S. NO. 20 - 32

EDGELEY, NORTH DAKOTA

Latitude 46° 20' N Longitude 98° 42' W

ELEVATION 1568 FEET

Data Compiled From Official U. S. Weather Bureau Records



Location of weather observation equipment at Edgeley Experiment Station.

Prepared by Weather Bureau State Climatologist For North Dakota

In Cooperation With Edgeley Experiment Station

Edgeley, North Dakota

CLIMATE OF EDGELEY, NORTH DAKOTA

Edgeley is located in southwestern LaMoure County in southeastern North Dakota less than 200 miles from the geographic center of the North American continent. The topography of LaMoure County is gently rolling terrain, with a series of low hills about 400 feet high 10 to 15 miles west of Edgeley. LaMoure County is a diversified dry land farming area, with corn and wheat as the main cash crops and an extensive cattle raising and dairy industry.

This summary of the climate of Edgeley generally applies to other areas of LaMoure County, although local topography may cause some minor differences.

The climate is typical of the Great Plains with cold winters, warm summers, and moderate annual rainfall. Because there are no obstacles to the winds from the arctic north or the subtropical south, the area is subject to wide variations in temperature from day to day, and month to month. Summers are warm and pleasant with sunny days and cool nights. Hot, humid days are rare. Temperatures of 90 degrees or more occur on an average of 19 days per year ranging from 3 days in the coolest of summers to 57 days in 1934.

Cold waves and blizzards in the winter season are a rather frequent occurrence, but on rare occasions this area may enjoy a "chinook" wind, that is, a mild dry westerly wind. Temperatures during the winter months of December, January, and February average about 12 degrees, but maximum temperatures exceed 32 degrees on 27 days during these months. Minimum temperatures drop to below zero 49 times each year.

The annual precipitation at Edgeley is 17.83 inches, of which 80% occures in the growing season and more than 50% in the months of May, June, and July. Even in the driest years there is usually enough summer rain to produce some crops. There has been a range in precipitation from less than 10 inches in the drouth year of 1936 to over 30 inches in 1928. Summertime precipitation is generally in the form of thunderstorms with about 33 storms per year mostly in June and July. June is usually the wettest month of the year. Precipitation of .10 inch or more can be expected on an average of 38 days per year. Rainfall of 1.00 inch or more per day can be expected about three times per year. The likelihood of one inch or more of rain in any 7-day period during the summer is greatest during the first part of June when the chance is one in three years. The likelihood of a dry 7-day period, trace or less, is greatest in the first part of November when the chance is 7 in 10 years. Intensities of about 1.20 inches in 1 hour, 1.70 inches in 6 hours, and 2.20 inches in 24 hours can be expected once in 2 years. Twenty three inches of snow can be expected in Edgeley each year, but snowfall has varied from about 7 inches in 1920-1921 to over 56 inches in 1936-1937. Over 31 inches of snow fell in March, 1902, for the greatest monthly total, while 11 inches on January 24, 1950, is the record one day amount. Measurable snow can be expected one year in two in October and three years in five in April. Snow usually stays on the ground from the first part of December until the middle of March.

Wind, sunshine, and relative humidity records are not available, but the following data from Bismarck and Fargo should approximate conditions at Edgeley.

Prevailing winds are northwesterly in the winter and southerly in the summer. April is the windiest month with an average of 14 miles per hour while the average wind movement during the year is about 12 miles per hour. Highest wind speeds are usually from the northwest.

Possible sunshine averages about 60% ranging from 45% in the winter months to 70% in the summer. The average cloud cover is about six tenths with over 200 days each year classified as either clear or partly cloudy. Relative humidity during the summer months varies from about 80% in the early morning hours to 45% in the late afternoon and during the winter the humidity 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	Max. 32° and below	Min. 32° and below	Min. 0° and below	Month
(a)	60	60	60	60		60		60	60	60		61	61		61		60	60	60	60	60	
J	19.5	-1.7	9.1	58	1942	-41	1912	1730	.37	1.10	1950	4.0	18.0	1937	11.0	1950	1	0	23	31	17	J
F	23.4	2.3	12.0	67	1958	-39	1936	1480	.40	1.35	1958	4.1	16.0	1939	9.0	1951	1	0	20	28	13	F
M	37.3	15.6	26.0	86	1910	-26	1948	1210	.66	2.59	1902	4.6	31.7	1902	10.0	1943	2	0	11	30	4	M
A	55.6	29.3	42.6	92	1934	-3	1954	670	1.62	3.25	1932	1.7	8.5	1946	7.0	1902	3	*	1	20	*	A
M	68.0	40.1	54.1	108	1934	11	1907	370	2.65	3.55	1923	0.2	5.0	1905	4.0	1905	6	1	0	6	0	M
J	76.4	50.3	63.4	106	1933	26	1915#	140	3.69	5.19	1932	T	T	1949	0.0		7	2	0	*	0	J
J	83.8	55.5	69.6	116	1936	33	1917#	50	2.67	3.63	1901	0.0	0.0		0.0		5	7	0	0	0	J
A	82.7	53.3	68.0	109	1938	31	1935#	50	2.20	3.18	1902	0.0	0.0		0.0		4	7	0	*	0	A
S	72.4	43.7	57.9	105	1931	14	1942	240	1.66	4.34	1946	0.1	5.0	1942	5.0	1942	4	2	0	4	0	S
O	59.3	32.5	45.9	94	1922	-6	1919	590	1.04	1.80	1915	0.9	8.0	1929	5.0	1951	2	*	1	15	*	O
N	39.7	18.1	28.9	73	1931	-27	1905	1080	.51	1.25	1928	3.1	15.5	1947	9.0	1905	2	0	9	28	3	N
D	25.2	5.1	15.1	67	1939	-36	1917	1450	.36	.61	1901	4.1	12.5	1927	6.0	1904	1	0	20	31	12	D
Year	53.6	28.7	41.1	116	1936	-41	1912	9160	17.83	5.19	JUNE 1932	22.8	31.7	MARCH 1902	11.0	JAN 1950	38	19	85	193	49	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
1901-1902	0	0	2.0	9.5	2.0	2.5	31.7	7.0	0	54.7
1902-1903	0	3.5	1.5	6.3	7.6	13.4	8.8	2.0	0	43.1
1903-1904	0.7	0.7	2.4	3.3	4.5	2.5	8.8	4.0	0	26.9
1904-1905	0	0	1.0	7.8	1.5	2.7	2.0	0	5.0	20.0
1905-1906	0	2.4	9.0	0	1.3	T	1.6	3.0	0	17.3
1906-1907	0	6.5	7.0	6.5	4.2	0.6	1.2	T	3.5	29.5
1907-1908	0	0	0	T	0.4	1.5	13.5	3.0	0	18.4
1908-1909	0	2.2	7.0	2.0	T	2.5	T	5.4	0	19.1
1909-1910	0	0.8	3.4	8.4	1.4	3.0	T	T	0	17.0
1910-1911	0	T	0.3	1.5	2.7	3.5	0.3	1.7	0	10.0
1911-1912	0	0	2.0	4.1	4.8	0.1	0.8	0	0	11.8
1912-1913	T	0	0.3	3.8	3.1	0.5	2.3	T	0	10.0
1913-1914	0	T	6.0	1.0	1.3	2.0	5.0	0	0	15.3
1914-1915	0	0	2.0	2.4	2.1	8.0	2.0	0	T	16.5
1915-1916	0	0	2.6	4.5	12.0	1.6	6.8	0	0	27.5
1916-1917	0	T	T	12.0	2.8	4.5	3.0	0	0	22.3
1917-1918	0	1.5	1.0	1.6	1.7	1.1	1.0	0	0	7.9
1918-1919	0	0	3.4	3.8	1.0	4.2	3.8	0	0	16.2
1919-1920	0	1.5	4.3	2.9	3.5	0.2	1.0	2.2	0	15.6
1920-1921	0	0	T	0.5	1.0	1.6	4.3	0	0	7.4
1921-1922	0	0	3.0	3.1	4.8	10.5	5.5	0	0	26.9
1922-1923	0	0.5	8.0	1.5	9.7	4.0	2.0	0	0	25.7
1923-1924	0	T	T	3.0	T	2.0	3.5	5.0	2.0	15.5
1924-1925	0	0	T	3.5	7.5	3.0	0.5	0	0	14.5
1925-1926	0	0.5	2.0	2.5	T	4.2	1.0	0.5	0	10.7
1926-1927	T	0	4.3	5.0	6.0	2.5	4.0	T	0	21.8
1927-1928	0	0	0.8	12.5	3.0	0.5	1.7	0	0	18.5
1928-1929	0	0	0	3.0	8.0	5.5	1.5	2.7	0	20.7
1929-1930	0	8.0	3.0	5.5	2.0	4.5	0	0	0	23.0
1930-1931	0	0	3.0	0	T	3.0	2.0	1.5	0	9.5

	SEPT.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	TOTAL
1931-1932	0	T	7.0	4.0	4.7	0	2.0	0	0	17.7
1932-1933	0	2.5	1.2	2.0	6.0	0.5	3.5	6.3	0	22.0
1933-1934	0	0.9	5.1	1.6	0.6	0.2	2.0	4.0	0	14.4
1934-1935	0	0	2.5	0.5	1.7	0.8	10.7	3.8	1.0	21.0
1935-1936	0	0	1.0	5.0	2.5	3.5	3.8	0.5	0	16.3
1936-1937	0	2.5	3.2	8.0	18.0	10.8	8.0	6.0	0	56.5
1937-1938	0	0	0.8	11.2	9.0	11.0	4.5	0	0	36.5
1938-1939	0	0	5.3	2.2	3.5	16.0	4.0	2.0	0	33.0
1939-1940	0	0.4	T	3.5	3.0	7.5	14.0	1.5	0	29.9
1940-1941	0	0	9.5	6.5	8.0	4.0	8.0	0	0	36.0
1941-1942	0	0	3.4	2.0	0.4	0.5	12.9	3.0	T	22.2
1942-1943	5.0	5.5	0.2	9.5	9.0	9.0	11.7	T	0.1	50.0
1943-1944	0	5.0	6.9	T	3.8	1.5	10.9	T	T	28.1
1944-1945	0	0	3.6	0.9	4.5	6.0	1.4	T	0	16.4
1945-1946	0	0	0.3	8.9	1.6	13.6	1.8	8.5	0	34.7
1946-1947	0	0.2	2.3	4.4	3.7	3.5	1.9	6.5	0	22.5
1947-1948	0	0	15.5	2.5	6.1	4.6	5.0	0.1	0	33.8
1948-1949	0	0	3.0	1.6	6.6	2.8	6.7	0	0	20.7
1949-1950	0	0	1.6	6.0	-	3.8	-	T	0	
1950-1951	0	1.5	1.0	5.4	5.6	10.9	-	4.0	0	
1951-1952	0	5.0	1.0	8.7	9.6	-	8.3	T	0	
1952-1953	0	T	6.0	1.7	2.0	3.3	7.8	0	T	20.8
1953-1954	0	0	4.0	2.2	5.0	T	6.0	0	0	17.2
1954-1955	0	2.0	0.5	1.7	2.5	8.0	2.5	2.6	0	19.8
1955-1956	0	0	3.5	1.5	5.5	2.0	7.0	4.0	0	23.5
1956-1957	0	0	2.0	4.0	3.4	4.0	T	0	0	13.4
1957-1958	0	0	0.1	9.0	4.0	T	T	0	0	13.1
1958-1959	0	0	6.0	1.0	T	6.0	0	3.0	0	16.0
1959-1960	0	0	10.0	T	3.0	1.0	4.0	6.0	0	24.0
1960-1961	0	1.0	4.0	6.0	T	9.0	T	4.0	0	24.0
1961-1962	0	0	0.5	4.5	6.0	6.2	5.5	0	0	22.7

Average Temperature (°F)

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1902	15.6	14.8	28.8	42.0	56.6	59.8	70.4	65.6	56.2	46.8	30.0	11.3	41.5
1903	11.8	5.9	25.6	44.0	55.6	63.3	67.2	65.5	53.4	48.8	25.6	12.8	40.0
1904	5.0	-0.2	23.0	39.0	53.9	62.0	64.8	64.3	57.0	47.9	37.4	15.3	39.1
1905	4.6	10.6	33.8	40.4	51.4	60.8	66.1	68.4	60.7	41.0	34.0	17.0	40.7
1906	15.4	12.4	18.5	47.6	52.0	62.4	67.2	66.4	64.8	45.4	25.0	8.1	40.4
1907	-4.1	13.5	26.9	33.8	45.0	63.3	67.8	68.2	53.2	44.9	33.0	24.9	39.2
1908	21.2	17.5	24.9	46.7	51.9	61.7	69.8	63.9	63.6	45.1	31.0	14.0	42.6
1909	7.0	12.2	23.8	36.2	52.2	64.1	67.8	71.4	59.6	43.8	29.4	6.2	39.5
1910	10.0	5.2	42.8	48.3	50.8	66.4	71.4	65.3	56.7	49.9	26.0	16.4	42.4
1911	2.6	12.4	34.2	42.2	57.2	69.4	68.0	64.2	56.0	42.1	18.0	16.4	40.2
1912	-4.1	13.6	17.0	45.6	55.9	61.0	67.6	64.4	52.0	46.1	34.4	21.2	39.6
1913	6.6	10.5	21.0	47.8	52.8	66.2	65.5	69.6	58.2	40.6	35.3	25.0	41.6
1914	15.8	4.2	26.9	42.2	57.0	63.4	72.2	64.8	60.7	51.8	33.8	7.4	41.7
1915	8.2	19.4	24.1	51.0	50.8	58.0	63.0	64.2	56.7	48.0	31.9	20.4	41.3
1916	-1.8	12.6	24.5	41.4	52.6	58.8	73.8	66.7	56.2	41.8	31.4	5.4	38.6
1917	5.8	2.8	34.0	38.4	51.3	60.8	71.3	66.0	56.4	36.0	37.9	4.2	37.9
1918	1.7	13.9	35.5	41.4	54.6	64.1	66.6	68.0	52.8	48.3	30.2	20.3	41.4
1919	20.8	11.3	21.6	43.6	54.4	66.4	70.3	68.3	61.4	36.6	19.1	10.8	40.4
1920	5.2	11.6	27.2	33.8	55.0	62.4	67.4	67.9	59.6	51.4	29.5	17.6	40.7
1921	19.7	22.8	27.9	44.4	54.6	68.0	72.7	67.6	59.1	48.0	21.1	19.9	43.8
1922	9.8	5.4	28.3	43.4	57.4	65.5	66.2	71.8	62.0	48.4	33.8	11.6	42.0
1923	12.6	7.2	21.2	40.9	55.0	65.5	71.4	63.3	60.0	44.5	38.2	24.2	42.0
1924	6.6	22.3	25.7	41.5	48.3	60.0	67.0	67.0	55.9	52.0	30.2	5.0	40.1
1925	9.5	18.6	31.6	49.1	53.6	62.4	67.3	69.8	60.8	34.4	31.6	17.2	42.2
1926	18.5	23.2	26.8	43.8	60.2	63.0	70.8	66.4	54.0	44.8	22.6	11.9	42.2
1927	13.6	16.0	31.1	43.0	48.8	60.5	64.9	64.2	58.4	48.8	23.3	-0.7	39.3
1928	15.4	21.6	30.7	37.2	58.1	57.5	68.4	65.6	54.7	45.8	34.0	22.8	42.6
1929	-2.0	5.0	33.1	42.7	50.2	62.2	70.7	68.0	55.1	47.2	26.0	13.3	39.3
1930	1.6	26.2	30.4	47.4	51.8	62.8	72.8	71.2	58.6	42.6	31.4	20.8	43.1
1931	24.8	30.8	27.2	45.9	52.6	69.2	72.2	66.8	63.6	49.4	32.6	21.3	46.4
1932	10.2	15.8	21.4	46.2	57.0	67.1	70.3	68.4	56.4	40.6	28.0	14.9	41.4
1933	15.2	12.6	30.8	42.8	55.0	72.1	71.3	69.0	62.8	44.5	29.8	11.5	43.1
1934	19.4	21.3	28.0	44.8	66.3	66.6	74.5	69.1	53.5	50.0	33.2	12.0	44.9
1935	4.5	28.0	26.2	39.4	48.3	60.2	75.8	68.0	60.0	45.8	16.9	10.4	40.3
1936	-5.5	-11.0	26.4	35.8	61.5	67.0	80.4	72.0	62.7	43.2	26.1	15.2	39.5
1937	-7.4	7.0	24.7	40.2	56.7	62.6	70.6	75.8	58.6	45.2	27.3	10.9	39.4
1938	8.7	9.4	34.0	45.6	52.0	65.4	72.2	73.8	62.3	53.7	26.8	20.2	43.7
1939	15.8	0.2	27.8	42.8	63.8	63.4	73.6	70.6	61.8	43.4	32.9	25.2	43.4
1940	2.2	16.1	25.2	38.8	53.1	65.4	73.6	67.8	62.6	49.8	22.1	19.8	41.4
1941	9.3	10.8	26.8	45.6	58.6	64.4	71.2	69.7	57.4	43.8	31.8	21.5	42.6
1942	20.9	16.2	33.0	47.6	50.8	61.6	67.7	67.8	54.2	48.2	29.9	10.0	42.3
1943	0.0	16.1	19.4	46.0	51.2	61.6	71.6	68.2	54.9	48.1	28.8	23.7	40.8
1944	23.6	11.5	19.8	40.2	59.3	63.5	68.0	67.2	57.2	49.4	30.4	17.3	42.2
1945	13.7	14.1	35.1	40.2	49.0	57.8	68.6	68.5	56.4	46.0	24.6	7.7	40.1
1946	10.2	9.2	36.8	48.5	51.1	64.2	69.6	64.9	56.8	41.2	27.2	15.1	41.2
1947	18.0	8.8	24.3	38.7	50.3	60.6	70.4	72.1	57.4	53.0	23.6	13.9	40.9
1948	9.6	9.6	20.2	45.4	56.2	63.4	70.9	-	65.1	47.6	30.7	15.7	39.5
1949	6.6	5.7	26.2	46.6	56.8	65.3	70.5	71.6	57.4	45.9	37.8	10.4	41.7
1950	-7.5	9.6	22.8	33.8	50.4	64.8	66.7	64.5	58.6	46.2	22.0	9.7	36.8
1951	2.7	12.8	12.5	39.3	56.7	57.8	67.1	63.9	52.5	43.1	22.1	6.5	36.4
1952	3.7	17.4	15.2	45.2	54.4	65.3	69.0	68.2	62.0	43.1	30.6	17.0	40.9
1953	13.0	18.0	26.6	37.2	52.4	63.7	68.0	70.4	59.7	53.1	35.3	20.4	43.2
1954	0.3	3.8	24.1	41.2	49.5	62.3	70.3	67.5	57.0	43.9	35.5	22.4	42.1
1955	12.9	6.3	21.0	49.8	59.4	62.8	71.9	70.3	58.1	48.5	18.0	5.5	40.4
1956	8.4	7.9	23.5	35.4	53.7	68.5	66.2	67.7	55.8	50.0	29.3	20.5	40.6
1957	3.0	13.1	27.1	41.6	53.4	61.5	73.0	66.7	55.4	45.0	29.9	23.4	41.1
1958	16.9	10.8	28.4	42.9	56.9	57.8	65.4	69.8	58.4	46.9	30.3	13.9	41.5
1959	6.2	7.5	31.9	42.3	53.4	66.7	70.1	71.9	58.1	39.8	21.7	26.4	41.3
1960	9.5	12.5	15.7	41.3	54.3	61.5	70.1	69.5	59.7	47.4	30.5	12.4	40.4
1961	12.2	16.5	33.8	37.7	50.4	67.2	67.7	72.4	55.0	47.7	29.9	9.0	41.6
Average	9.1	12.0	26.0	42.6	54.1	63.4	69.6	68.0	57.9	45.9	28.9	15.1	41.1

Total Precipitation (Inches)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1902	.21	.51	5.15	2.47	3.94	5.90	1.56	4.84	.95	.91	.14	.87	27.45
1903	.76	1.34	.88	2.85	2.24	1.57	1.93	5.31	3.07	.68	.34	.28	21.25
1904	.23	.17	1.09	3.30	1.29	5.40	2.79	.42	.78	1.01	.07	.81	17.36
1905	.15	.17	.79	1.41	4.33	3.48	2.60	1.71	.85	.24	1.46	T	17.19
1906	.13	T	.16	1.58	5.59	3.69	3.17	1.56	1.45	.93	1.05	.65	19.96
1907	.42	.06	.21	.35	1.89	1.73	2.77	1.21	2.47	.41	T	T	11.52
1908	.04	.65	1.45	1.26	3.53	3.26	1.19	1.69	1.81	1.34	.63	.20	17.05
1909	.12	.25	T	.70	4.01	2.80	3.04	1.73	.89	.42	.34	.24	15.14
1910	.14	.30	1.20	1.48	.36	1.57	.60	1.96	4.19	.15	.16	.10	12.21
1911	.27	.35	.03	1.61	2.31	1.19	1.76	4.10	2.43	.43	.20	.41	15.07
1912	.48	.01	.08	2.82	3.25	3.82	5.70	2.65	2.57	.18	T	.28	21.84
1913	.31	.04	.24	1.43	1.43	3.74	2.46	3.64	2.56	3.44	.28	.25	19.82
1914	.13	.20	.57	4.91	1.51	4.04	2.60	1.90	.75	.96	.10	.13	17.80
1915	.21	.80	.20	1.39	4.54	4.46	3.49	1.52	2.23	2.56	.26	.30	21.96
1916	.91	.16	1.59	1.41	4.55	2.56	3.91	2.90	.69	.36	T	.79	19.83
1917	.28	.45	.30	1.93	.18	2.90	1.97	1.01	.89	.24	.10	.16	10.41
1918	.17	.11	.10	2.64	1.25	1.00	3.32	2.68	.07	.32	1.03	.38	13.07
1919	.10	.42	.73	1.29	4.00	4.74	3.68	.46	.33	1.18	.43	.29	17.65
1920	.35	.02	.11	1.10	2.96	3.65	2.57	.53	2.87	.10	.05	.05	14.36
1921	.10	.16	.99	1.69	3.31	5.76	2.61	1.27	4.01	.62	.30	.31	21.13
1922	.45	1.05	.55	.76	4.02	2.44	1.34	.43	1.05	.65	2.73	.15	15.62
1923	.72	.38	.20	.79	4.46	6.43	3.10	2.17	1.03	.45	.46	.30	20.49
1924	T	.20	.36	3.71	.73	2.79	.91	.71	2.71	1.65	T	.28	14.05
1925	.75	.30	.05	2.18	.55	8.03	2.26	.39	4.16	.05	.40	.25	19.37
1926	T	.34	.10	.05	1.54	.66	4.33	4.73	3.32	1.12	.43	.50	17.12
1927	.54	.25	.41	2.31	7.15	6.69	2.04	2.03	1.52	.92	.25	1.23	25.34
1928	.30	.05	.17	1.17	.67	7.33	6.20	9.17	2.79	.73	1.50	.30	30.38
1929	.80	.55	.82	1.40	1.49	1.18	1.96	.58	.64	4.05	.30	.55	14.32
1930	.20	.62	T	1.46	2.48	2.36	1.33	3.51	.20	2.24	.80	.00	15.20
1931	.05	.30	.92	1.23	2.66	4.43	2.36	2.11	1.16	1.07	.70	.40	17.39
1932	.47	.00	.20	3.81	2.83	6.89	1.14	2.89	.39	2.04	.13	.20	20.99
1933	.42	.05	.35	1.60	1.80	3.79	2.40	.45	.51	.18	.52	.24	12.31
1934	.06	.02	.24	.65	.11	3.61	.60	2.91	1.09	1.84	.42	.05	11.60
1935	.17	.15	1.07	3.17	2.31	3.39	4.43	2.81	.05	.00	.10	.50	18.15
1936	.20	.34	.38	.62	3.69	1.84	.14	.69	.81	.24	.27	.52	9.74
1937	1.17	.73	.50	2.13	2.75	2.41	1.40	1.11	.89	.30	.23	.67	14.29
1938	.62	.58	.83	1.07	2.11	1.79	1.46	1.06	1.20	.28	.53	.29	11.82
1939	.15	1.02	.12	.72	1.71	6.70	1.73	1.37	.39	1.03	.01	.18	15.13
1940	.11	.32	1.39	1.92	1.49	3.71	3.75	2.43	.93	1.72	.34	.62	18.73
1941	.72	.21	.46	2.81	1.40	7.34	.86	1.92	4.14	1.70	.35	.05	21.96
1942	.02	.05	2.64	2.34	5.94	2.62	1.86	4.71	2.03	.59	.04	.60	23.44
1943	.65	.73	.97	1.24	1.73	3.57	3.60	2.47	1.60	.93	.60	T	18.09
1944	.20	.10	.76	1.64	5.52	2.33	4.21	4.97	.89	.10	2.26	.03	23.01
1945	.38	.75	.61	2.05	1.16	2.03	1.36	1.86	2.40	.11	.02	.61	13.34
1946	.11	1.18	2.11	.84	1.04	3.21	1.04	1.44	6.65	3.32	.61	.34	21.89
1947	.24	.31	.18	1.85	1.30	3.40	1.66	.66	1.01	1.59	1.72	.25	14.17
1948	.52	.48	.39	1.36	.75	3.92	4.30	2.19	.69	1.30	.68	.11	16.69
1949	.52	.28	.49	.33	3.20	2.46	6.59	.98	.35	2.11	.16	.59	18.06
1950	2.83	.22	1.28	.42	6.22	1.39	3.15	.32	1.47	.43	.11	.52	18.36
1951	.41	.61	.40	.71	1.41	3.76	3.09	2.25	1.65	1.47	.10	.85	16.71
1952	.96	1.68	.68	.10	.95	1.56	1.91	1.08	.71	T	.79	.17	10.59
1953	.24	.33	.78	3.67	3.00	6.61	.50	.97	.53	.78	.48	.28	18.17
1954	.33	T	1.04	1.16	1.88	7.95	2.71	2.30	3.11	.63	.06	.17	21.34
1955	.25	.80	.18	.71	2.58	3.18	8.08	2.49	1.16	.06	.29	.14	19.92
1956	.40	.17	.67	.52	3.09	3.59	3.97	2.27	.52	1.48	2.44	.39	19.51
1957	.11	.17	.10	2.17	3.12	3.64	3.84	3.02	2.56	3.40	.95	.40	23.48
1958	.32	1.85	.04	1.68	3.30	3.51	2.65	1.79	1.62	.46	.74	.08	18.04
1959	T	.26	.12	.50	3.70	4.80	3.16	3.08	2.06	2.07	.72	.04	20.51
1960	.37	.17	.36	1.24	6.50	3.61	1.08	5.18	.51	.65	.50	.53	20.70
1961	T	.16	.29	1.74	2.46	1.47	1.53	2.37	3.65	.75	.06	.31	14.79
Average	.37	.40	.66	1.62	2.65	3.69	2.67	2.20	1.66	1.04	.51	.36	17.83

PROBABILITY OF FREEZE OCCURRENCE IN SPRING

Dates 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. 27	May 4	May 11	May 18	May 25
24	Apr. 14	Apr. 22	Apr. 30	May 8	May 16
20	Apr. 5	Apr. 13	Apr. 21	Apr. 30	May 7
16	May. 22	Mar. 30	Apr. 8	Apr. 17	Apr. 25

PROBABILITY OF FREEZE OCCURRENCE IN FALL

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

Temp. (°F)	10%	25%	50%	75%	90%
32	Sept. 5	Sept. 11	Sept. 17	Sept. 23	Sept. 29
28	Sept. 13	Sept. 19	Sept. 26	Oct. 3	Oct. 9
24	Sept. 23	Oct. 1	Oct. 9	Oct. 17	Oct. 25
20	Oct. 1	Oct. 9	Oct. 18	Oct. 27	Nov. 4
16	Oct. 13	Oct. 21	Oct. 30	Nov. 8	Nov. 16

Monthly Maximum Temperature (°F)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1902	47	49	58	75	84	92	97	95	90	82	60	48	97
1903	46	41	56	74	85	87	101	98	83	73	72	42	101
1904	36	49	55	80	83	90	88	94	94	84	72	46	94
1905	40	60	68	75	80	88	94	97	91	86	69	41	97
1906	41	47	62	85	93	87	99	96	97	83	63	39	99
1907	31	49	72	74	74	86	91	104	86	81	58	54	104
1908	57	50	60	90	80	86	99	100	93	86	71	40	100
1909	42	40	55	68	87	90	98	95	91	89	69	46	98
1910	38	38	86	88	83	98	105	94	84	89	59	45	105
1911	38	40	68	83	90	104	96	90	89	72	55	49	104
1912	34	43	55	81	86	97	90	94	91	86	65	55	97
1913	41	43	56	87	95	98	99	101	93	80	64	57	101
1914	55	45	65	74	86	88	99	96	93	87	67	44	99
1915	39	41	48	83	86	83	90	91	90	76	68	47	91
1916	34	51	55	70	90	81	99	97	89	73	69	59	99
1917	41	42	65	62	90	95	110	96	89	80	70	50	110
1918	42	48	76	72	90	97	101	98	84	80	63	57	101
1919	46	47	49	75	87	89	99	92	96	80	47	44	99
1920	40	36	66	58	81	87	92	97	90	90	60	45	97
1921	53	57	71	91	85	98	104	98	97	79	66	59	104
1922	38	42	49	76	80	90	95	102	99	94	55	41	102
1923	43	37	47	86	85	89	91	87	87	79	67	56	91
1924	47	60	53	76	76	84	93	100	93	79	64	56	100
1925	40	51	74	83	96	89	96	106	99	63	64	47	106
1926	52	52	71	89	105	104	106	94	84	74	63	41	106
1927	46	47	65	78	78	91	89	89	92	83	55	36	92
1928	46	48	85	77	92	82	88	95	84	81	59	49	95
1929	37	30	66	79	86	93	100	100	96	86	47	43	100
1930	36	55	59	82	90	88	101	102	86	76	67	38	102
1931	52	58	52	83	93	101	110	109	105	85	73	49	110
1932	35	57	55	75	90	90	100	94	90	78	63	57	100
1933	44	55	69	77	92	106	103	99	96	84	68	58	106
1934	53	55	73	92	108	95	112	99	90	86	67	40	112
1935	42	48	67	72	76	86	97	103	92	78	43	39	103
1936	27	23	58	83	89	104	116	102	101	79	63	50	116
1937	19	40	57	68	89	92	102	105	100	81	67	41	105
1938	36	42	65	85	76	97	101	109	96	89	64	52	109
1939	45	40	80	84	100	91	100	99	95	74	71	67	100
1940	42	50	46	79	81	98	100	98	96	81	51	47	100
1941	40	36	60	78	92	92	102	105	99	70	52	50	105
1942	58	48	62	85	82	79	94	92	90	83	63	39	94
1943	38	44	67	78	91	90	97	99	86	86	54	51	99
1944	55	34	45	63	88	93	94	97	83	81	70	41	97
1945	45	43	74	78	80	90	101	102	100	86	69	50	102
1946	36	40	81	80	81	95	96	100	85	75	60	47	100
1947	50	40	61	87	81	82	95	105	101	90	50	39	105
1948	38	40	48	80	95	94	100	-	100	82	53	54	100
1949	44	45	45	82	87	96	96	103	94	85	70	48	103
1950	28	39	50	74	85	99	91	92	90	75	68	47	99
1951	36	44	42	82	85	82	95	94	82	84	53	43	95
1952	37	42	36	89	87	94	100	101	98	80	64	39	101
1953	42	41	61	80	86	91	94	102	100	92	72	46	102
1954	43	58	55	80	83	89	99	93	93	75	66	50	99
1955	39	39	69	80	92	85	94	96	95	83	70	39	96
1956	46	42	54	73	86	97	90	94	94	86	56	51	97
1957	35	44	60	81	79	85	97	92	82	79	62	53	97
1958	48	67	55	81	87	90	93	105	91	91	72	47	105
1959	46	40	65	80	95	96	101	107	99	78	53	51	107
1960	49	45	51	74	85	87	100	98	95	88	71	43	100
1961	46	52	69	82	78	105	96	101	88	84	67	54	105

Monthly Minimum Temperature (°F)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1902	-26	-23	-13	12	32	35	45	35	26	21	2	-24	-26
1903	-21	-30	-3	16	27	36	33	41	28	21	-16	-30	-30
1904	-38	-29	-8	12	33	37	43	40	23	21	0	-20	-38
1905	-28	-35	-1	18	26	37	40	42	32	13	-27	-18	-35
1906	-23	-33	-25	22	24	32	44	42	34	14	-14	-23	-33
1907	-31	-35	-8	12	11	33	41	31	19	13	1	-3	-35
1908	-26	-20	-16	3	16	35	40	37	17	16	-12	-16	-26
1909	-28	-22	1	10	16	37	47	33	31	11	-8	-26	-28
1910	-31	-29	10	16	19	26	44	34	27	17	2	-15	-31
1911	-27	-15	1	10	17	39	39	36	29	11	-11	-19	-27
1912	-41	-23	-12	21	29	32	40	35	24	9	6	-11	-41
1913	-34	-23	-23	21	27	30	40	46	17	6	8	-15	-34
1914	-14	-27	-7	15	28	35	43	33	31	19	-12	-32	-32
1915	-34	-11	-4	14	27	26	41	33	33	22	5	-9	-34
1916	-37	-26	-20	13	20	35	44	38	26	10	-4	-36	-37
1917	-28	-34	-23	17	25	32	33	34	27	1	11	-36	-36
1918	-30	-31	-11	11	20	34	39	42	19	14	1	-17	-31
1919	-31	-25	-20	17	28	32	44	40	25	-6	-14	-24	-31
1920	-31	-20	-15	0	28	36	46	32	24	12	-1	-21	-31
1921	-16	-16	-8	12	21	35	46	37	31	24	-17	-25	-25
1922	-30	-24	-9	18	35	45	36	40	29	16	12	-17	-30
1923	-13	-27	-21	15	22	39	50	36	31	7	9	-17	-27
1924	-31	-14	0	10	21	30	38	33	30	26	4	-31	-31
1925	-31	-23	-9	20	20	38	38	41	28	-3	-3	-13	-31
1926	-20	-7	-11	2	15	33	40	39	19	11	-3	-20	-20
1927	-22	-19	2	17	28	32	42	37	19	19	-7	-26	-26
1928	-28	-7	0	3	26	31	47	36	24	14	8	-14	-28
1929	-29	-32	-1	16	19	33	41	33	19	25	-8	-20	-32
1930	-29	-14	2	17	24	31	40	37	20	8	-6	-10	-29
1931	-13	-8	-1	10	19	34	45	35	30	23	-4	-9	-13
1932	-25	-16	-15	18	29	49	40	36	30	18	-6	-19	-25
1933	-17	-35	-6	15	28	35	45	36	26	11	3	-22	-35
1934	-20	-20	-6	16	25	35	41	32	22	19	4	-21	-21
1935	-30	-8	-11	14	22	30	50	31	19	8	-11	-20	-30
1936	-35	-39	-7	-2	26	33	45	40	26	-3	-6	-21	-39
1937	-31	-22	1	10	28	32	44	42	26	10	-13	-23	-31
1938	-24	-20	0	15	24	33	49	42	26	19	-8	-24	-24
1939	-18	-36	-7	4	21	40	41	42	21	0	9	-10	-36
1940	-25	-19	-1	8	26	35	45	42	25	27	-15	-18	-25
1941	-17	-24	-9	18	29	40	41	35	28	15	0	-8	-24
1942	-26	-22	13	11	27	34	41	35	14	5	0	-23	-26
1943	-33	-20	-15	17	19	36	50	38	25	19	10	-13	-33
1944	-11	-27	-15	12	22	39	45	40	32	19	-3	-12	-27
1945	-20	-20	-16	19	21	30	36	37	20	12	-6	-28	-28
1946	-22	-27	-2	19	14	28	40	34	27	15	-7	-23	-27
1947	-25	-23	-2	12	21	36	40	39	18	23	-8	-16	-25
1948	-29	-21	-26	10	28	40	50	-	37	15	1	-17	-29
1949	-26	-27	-5	19	29	35	44	40	24	14	8	-22	-27
1950	-32	-16	-18	8	22	33	45	35	33	20	-14	-30	-32
1951	-35	-22	-21	18	30	36	43	39	22	7	-12	-30	-35
1952	-25	-19	-22	21	26	36	41	38	26	11	-1	-4	-25
1953	-16	-15	-4	10	25	33	45	47	30	23	13	-7	-16
1954	-32	-6	-10	-3	23	36	45	42	28	19	5	-3	-32
1955	-20	-28	-13	25	20	42	49	39	28	13	-14	-29	-29
1956	-22	-27	-11	13	25	35	45	38	27	18	0	-19	-27
1957	-29	-18	0	7	27	38	52	43	25	13	2	-24	-29
1958	-15	-28	11	15	22	34	43	35	29	21	-15	-19	-28
1959	-22	-22	5	11	21	37	45	40	25	18	-12	7	-22
1960	-23	-16	-16	15	26	41	43	39	24	11	-9	-23	-23
1961	-28	-15	11	12	17	40	46	46	27	18	6	-19	-28

STATION HISTORY

The instruments from which data for this summary were taken are located at the North Dakota Agricultural Experiment Station one mile southeast of Edgeley. They have been at this location since May, 1901, and constitute the entire period of record. The instruments are exposed on an open plot of ground with a row of trees to the north and south and scattered trees to the east and west that are more than 100 feet distant. A small grove of trees is located 66 feet to the northwest and represents the nearest obstruction. It is an excellent exposure and should be representative of a rather large surrounding area as well. Instrumentation includes maximum and minimum thermometers in a standard instrument shelter and a standard 8 inch rain gage for the entire period of record. A weighing type recording gage was installed in May, 1946. Complete evaporation measuring equipment was installed in August, 1950.

Observations at the Edgeley Experiment Station have been taken under the direction of:

C. J. Sturgeon.....May 1, 1901 to May 31, 1905
O. A. Thompson.....June 1, 1905 to March 31, 1943
Joe P. Tiernan.....April 1, 1943 to August 16, 1950
Miles C. White.....August 17, 1950 to the present