CLIMATOLOGICAL SUMMARY

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

GRAFTON, NORTH DAKOTA

Latitude 48° 25' N **Longitude 97° 25' W**

ELEVATION 827 FEET

Grafton, North Dakota

Data Compiled From Official U. S. Weather Bureau Records

Prepared by Weather Bureau State Climatologist For North Dakota
In Cooperation With The Grafton National Bank, Grafton, North Dakota

CLIMATE OF GRAFTON, NORTH DAKOTA

Grafton, the county seat of Walsh County, is located in the Red River Valley in northeastern North Dakota. The surrounding country is flat, fertile farmland. The main cash crops of the area are wheat, barley, potatoes, and sugar beets.

The data in this summary are representative of not only Grafton, but the surrounding area as well.

Grafton, being near the geographical center of North America, has a continental climate characterized by cold and rather snowy winters, warm summer days and cool nights. The frequent passage of weather systems across the area brings a variety of weather in all seasons. Hot, humid days are rare in summer, but cold waves and blizzards may be expected each winter.

Maximum temperatures during the three summer months June, July and August average about 81 degrees. Temperatures of 90 degrees or more occur on an average of 16 days per year ranging from 2 in the coolest summers to 42 in 1936. Temperatures during the winter months of December, January, and February average 7.6 degrees, but maximum temperatures on 16 days during these months exceed 32 degrees. During outbreaks of arctic air, temperatures drop to below zero on 62 days each year.

The annual precipitation at Grafton is 18.78 inches, of which three-fourths falls in the growing season, April through September. Annual precipitation has ranged from nearly 28 inches in 1909 to a little over 10 inches in 1897. Summertime precipitation is usually in the form of thunderstorms; about 30 storms are reported each year. June is usually the wettest month of the year, but July, 1937, when 9.48 inches of precipitation was measured, is the wettest month on record. Precipitation of .10 inch or more per day can be expected on an average of 44 days per year, and rainfall of 1.00 or more per day occurs about three times per year. The likelihood of 1.00 inch or more of rain in a 7-day period is greatest the third 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 March when the chance is 1 year in 2. Intensities of about 1.00 inch 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-six inches of snow can be expected each year in Grafton, but snowfall has varied from 84 inches in 1947-1948 to 8 inches in 1957-1958. Almost 15 inches of snow fell on March 16, 1943, for the greatest single day amount. The greatest snowfall in one month is 23.6 inches in November, 1919. Measureable snow can be expected 4 years in 10 in October, 1 year in 2 in April, and 1 year in 10 in May, and every year in the months of November through March.

Wind, sunshine, and relative humidity records are not available but the following data from Devils Lake should approximate conditions at Grafton. 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. Relative humidity in 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	Max. 32° and below	Min. 32° and below	Min. 0° and below	Month
(a)	51	51	51	70		70		51	51	51		51	51		51		51	51	51	51	51	
J	13.9	-6.8	2.8	58	1892	-45	1916	1930	0.62	2.28	1949	7.7	22.2	1916	11.5	1916	2	0	27	31	22	J
F	19.4	-2.0	8.9	65	1958	-47	1914	1570	0.57	2.00	1930	6.9	15.2	1936	13.0	1955	2	0	23	28	16	F
M	32.6	12.7	23.0	80	1946	-34	1897	1300	0.72	3.78	1942	6.3	22.2	1916	14.9	1943	2	0	14	30	6	M
A	53.2	29.1	41.2	97	1952	-11	1920	710	1.37	4.39	1924	1.9	15.2	1960	8.4	1937	3	0	1	19	0	A
M	68.7	40.3	54.5	107	1934	10	1926	350	2.05	5.25	1927	0.2	3.0	1946	3.0	1946	5	1	0	6	0	M
J	76.6	50.4	63.5	104	1933	23	1915	110	3.28	7.76	1925	0.0					6	2	0	0	0	J
J	83.1	55.5	69.3	108	1936	36	1960#	10	2.69	9.48	1937	0.0					6	6	0	0	0	J
A	81.7	53.2	67.4	102	1952#	27	1915	50	2.60	8.25	1944	0.0					6	6	0	0	0	A
S	70.5	43.7	57.1	103	1906	18	1942#	260	2.12	8.93	1957	0.0	0.5	1939	0.2	1912	4	1	0	3	0	S
O	57.1	32.7	44.9	91	1914	-9	1919	620	1.13	5.29	1949	1.1	11.3	1950	7.4	1916	3	0	1	15	0	O
N	35.7	17.1	26.4	71	1958	-36	1905	1160	0.81	3.89	1944	5.4	23.6	1919	10.2	1919	3	0	12	28	3	N
D	20.8	1.6	11.2	63	1939	-38	1917	1670	0.54	1.63	1947	6.6	22.1	1933	7.0	1916	2	0	24	31	15	D
Year	51.1	27.3	39.2	108	July 1936	-47	Feb. 1914	9740	18.50	9.48	July 1937	36.1	23.6	Nov. 1919	14.9	Mar. 1943	44	16	102	191	62	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
1911-12	0	0	6.8	5.7	1.9	1.4	0.8	0.5	0	17.1
1912-13	0.2	1.3	0.5	7.0	5.5	1.4	10.0	1.3	0	27.2
1913-14	0	0	0.3	0.2	7.0	8.5	7.4	3.7	0	27.1
1914-15	0	0	1.0	7.5	1.7	14.1	1.0	0	T	25.3
1915-16	0	T	3.2	7.5	23.8	6.5	22.2	T	0	63.2
1916-17	0	7.9	0.2	17.5	5.9	10.1	0.7	0	0	42.3
1917-18	0	4.5	2.7	8.0	4.6	2.7	0	0.7	1.0	24.2
1918-19	0	1.0	M	11.2	2.3	4.0	2.5	5.3	0	M
1919-20	0	4.9	23.6	1.6	11.1	8.6	6.3	1.4	0	57.5
1920-21	0	0	3.4	4.0	4.1	4.7	7.9	0.2	0	24.3
1921-22	0	0	5.8	6.8	3.7	14.1	6.7	0	0	37.1
1922-23	0	0	10.2	11.4	8.4	9.4	11.0	4.0	0	54.4
1923-24	0	0	0	2.5	5.8	4.4	2.2	0.2	2.6	17.7
1924-25	0	0	2.3	4.3	3.0	6.2	9.5	0	0	25.3
1925-26	0	2.7	T	1.0	2.3	3.9	2.9	0.4	0	13.2
1926-27	0	0.4	9.2	6.1	7.5	8.1	T	0	0	31.3
1927-28	0	T	2.7	4.7	4.6	T	4.5	4.8	0	21.3
1928-29	0	0	T	4.3	11.1	1.7	1.0	2.3	0	20.4
1929-30	0	5.2	2.7	11.7	3.0	17.5	4.9	0	0	45.0
1930-31	0	T	10.0	5.7	2.9	T	2.0	T	T	20.6
1931-32	0	0	13.8	5.4	4.4	8.9	T	T	0	32.5
1932-33	0	7.2	11.2	2.0	9.2	3.8	T	2.5	0	35.9
1933-34	0	T	12.1	22.1	1.9	T	2.3	T	0	38.4
1934-35	T	T	0.2	8.3	17.2	T	8.9	T	0	34.6
1935-36	0	2.7	14.2	8.1	15.8	22.7	5.8	T	0	69.3
1936-37	0	1.0	2.6	2.2	15.7	8.0	1.0	9.4	0	39.9
1937-38	0	T	6.0	5.9	4.3	13.7	T	T	1.0	30.9
1938-39	0	0	10.5	4.0	9.1	22.8	10.3	2.4	0	59.1
1939-40	0.5	T	0	T	1.4	18.9	7.4	4.0	0	32.2
1940-41	0	0	6.2	7.8	9.9	5.8	12.7	1.6	0	44.0
1941-42	0	4.0	T	T	2.1	1.5	19.8	T	0	27.4
1942-43	T	T	1.5	9.2	3.6	6.6	17.6	0	T	38.5
1943-44	0	T	3.5	1.5	T	1.5	19.8	0	T	26.3
1944-45	0	0	3.0	0.4	14.6	3.5	0.1	3.7	T	25.3
1945-46	T	T	3.4	14.9	10.2	3.7	1.8	1.0	3.0	38.0
1946-47	0	T	7.0	8.4	5.7	7.0	3.2	3.1	0	34.4
1947-48	0	0	19.5	18.5	5.5	18.0	12.8	10.0	T	84.3
1948-49	0	T	T	13.5	23.8	10.2	7.9	0	0	55.4
1949-50	0	0.9	2.1	17.5	19.6	1.0	11.9	8.5	0	61.5
1950-51	0	11.3	8.5	3.4	6.3	8.0	6.9	0	0	44.4
1951-52	0	1.0	7.5	6.2	12.3	T	4.7	T	0	31.7
1952-53	0	T	1.5	3.8	3.4	1.1	3.5	2.2	0	15.5
1953-54	0	0	3.5	11.1	19.7	0.5	1.6	0	0.2	36.6
1954-55	0	T	3.4	2.5	0	20.4	19.5	4.5	0	50.3
1955-56	0	2.0	16.4	3.4	19.8	5.9	18.6	1.0	0	67.1
1956-57	0	0	1.0	5.9	2.2	8.2	0.3	T	0	17.6
1957-58	0	0.2	2.9	0.6	0.8	0.8	2.5	0.5	0	8.3
1958-59	0	0	14.4	3.3	3.5	6.7	T	T	0	27.9
1959-60	0	0.3	6.7	0.3	12.6	3.3	0.9	15.2	0	39.3
1960-61	0	T	3.3	7.4	2.7	4.0	0	0.9	0	18.3
1961-62	0	0	2.7	8.9	14.9	8.4	18.1	1.0	0	54.0

Average Temperature (°F)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1911	-5.9	5.6	28.9	41.4	56.6	66.9	64.7	62.0	52.9	42.1	15.6	12.2	36.9
1912	-10.8	8.4	17.6	42.2	54.0	61.0	66.4	62.1	53.2	43.4	28.7	14.6	36.7
1913	-0.6	2.8	12.4	46.2	50.6	65.9	64.8	67.8	57.0	38.8	33.0	21.2	38.3
1914	10.6	-8.0	23.0	36.5	56.0	62.4	71.2	63.1	58.9	50.7	27.6	0.1	37.7
1915	0.6	14.0	23.9	48.4	51.2	55.8	62.6	64.6	55.2	45.4	24.2	11.4	38.1
1916	-9.0	0.4	15.1	37.6	50.4	58.4	72.8	66.0	54.8	38.0	28.2	0.3	34.4
1917	-7.5	-6.2	20.0	37.0	50.8	58.2	68.4	63.6	54.6	32.2	33.2	-3.2	33.4
1918	-4.4	3.6	33.6	39.9	49.0	61.2	62.6	65.1	50.9	45.2	28.6	14.6	37.5
1919	12.4	6.3	17.3	42.0	55.8	66.2	69.0	66.4	58.9	33.6	14.2	3.6	37.1
1920	-3.8	7.6	21.9	33.0	55.2	63.2	68.0	69.0	60.6	50.0	29.0	13.6	38.9
1921	10.6	15.0	21.0	41.8	55.0	66.8	71.4	66.0	58.1	46.8	20.2	13.9	40.6
1922	5.6	1.2	27.5	43.6	60.0	65.0	66.4	70.4	59.6	45.5	33.6	4.8	40.3
1923	5.2	4.4	15.1	38.4	55.3	68.2	72.4	62.8	60.0	45.9	36.0	22.0	40.5
1924	-0.8	16.2	27.8	38.5	47.5	59.9	65.6	64.2	54.4	51.0	25.3	0.1	37.5
1925	5.7	11.6	23.4	47.5	53.2	61.5	66.4	68.8	58.0	35.2	27.7	16.0	39.6
1926	13.4	19.0	23.5	41.6	59.4	60.0	67.8	65.0	52.5	42.3	20.2	6.4	39.3
1927	6.4	12.4	30.8	41.2	49.6	62.1	66.3	63.6	58.5	47.6	20.0	0.6	38.3
1928	12.0	17.9	26.2	37.6	57.5	60.2	68.0	64.7	54.9	44.0	31.5	21.4	41.3
1929	-8.6	0.6	28.5	42.6	50.1	62.8	69.7	67.8	55.4	46.4	22.6	8.9	37.2
1930	-2.6	16.4	24.2	47.6	53.0	64.5	71.4	70.6	57.2	42.8	29.0	15.3	40.8
1931	13.9	24.0	24.3	44.4	53.4	68.8	71.8	68.4	62.0	49.2	32.0	20.2	44.4
1932	10.2	11.2	17.6	41.8	57.3	70.0	70.6	69.8	58.4	39.2	21.2	10.5	39.8
1933	8.6	7.2	26.0	40.9	56.9	71.1	72.4	69.3	61.6	41.4	22.8	4.1	40.2
1934	12.2	13.0	24.8	43.7	63.1	65.0	71.4	67.8	53.6	49.4	33.0	9.6	42.2
1935	-2.4	23.0	25.2	38.9	52.1	61.6	75.6	67.6	56.4	45.4	15.4	8.5	38.9
1936	-9.2	-12.0	22.4	35.8	61.8	65.2	79.2	69.8	61.0	41.4	26.4	12.6	37.8
1937	-9.7	5.2	22.1	40.6	58.0	64.0	70.6	72.2	58.9	44.1	26.0	10.0	38.5
1938	4.4	7.0	34.8	40.8	53.6	64.0	70.4	72.4	63.2	52.7	23.3	15.4	41.8
1939	-10.0	2.2	21.6	41.4	61.0	63.6	74.0	71.9	59.6	42.4	35.0	26.0	42.4
1940	5.8	16.1	18.0	38.0	55.4	63.4	71.2	68.2	62.8	51.2	24.2	16.8	40.9
1941	8.7	7.8	22.2	46.4	59.8	66.6	71.8	67.8	57.3	45.0	28.5	18.8	41.7
1942	17.8	11.1	29.8	45.8	51.6	62.1	67.6	67.2	54.4	48.0	25.8	6.0	40.6
1943	-3.0	12.2	17.9	44.0	51.2	62.4	72.5	69.4	55.0	49.5	29.2	19.6	40.0
1944	21.4	12.2	19.2	42.1	59.4	63.7	69.0	66.6	57.6	48.6	30.4	15.6	42.1
1945	9.4	14.8	35.6	38.1	47.6	60.2	67.9	68.0	55.4	44.5	23.4	7.0	39.3
1946	5.2	5.2	34.1	48.0	53.0	64.0	70.7	71.8	56.8	42.0	25.0	10.4	40.5
1947	14.2	8.0	23.8	40.2	49.8	60.9	70.6	67.4	55.7	52.4	21.8	9.6	39.5
1948	2.3	5.4	15.3	37.8	56.6	64.0	69.7	69.1	63.7	47.9	28.3	8.7	39.1
1949	1.9	4.5	19.3	46.1	56.4	65.4	69.4	70.1	56.0	43.7	34.3	6.7	39.5
1950	-11.6	5.0	18.0	30.7	50.2	64.1	67.3	63.5	59.2	46.0	20.3	6.5	34.9
1951	0.9	9.0	17.3	39.5	58.8	60.6	69.5	64.5	53.5	42.5	20.0	5.9	36.8
1952	0.9	18.7	21.9	48.9	55.9	66.1	69.0	66.6	59.9	41.6	28.9	15.4	41.2
1953	6.8	12.5	24.4	37.1	52.4	62.6	66.5	70.2	57.7	52.7	34.2	15.5	41.1
1954	-6.3	25.7	24.5	38.9	50.4	62.8	69.8	66.3	56.2	45.9	34.1	19.2	40.6
1955	5.6	4.5	11.9	50.2	59.0	64.7	72.7	----	57.8	47.7	16.9	2.2	----
1956	3.8	4.2	15.8	33.1	53.4	68.9	65.7	66.3	52.3	49.3	29.8	12.4	37.9
1957	1.6	11.1	25.9	41.0	55.9	60.1	72.0	67.7	55.0	45.2	27.9	19.2	40.2
1958	16.8	11.3	29.2	44.7	56.7	58.9	65.8	67.2	58.3	47.3	26.5	5.2	40.7
1959	-2.6	3.8	26.5	41.9	52.7	65.4	69.0	68.6	55.3	34.8	15.3	19.2	37.5
1960	1.4	5.6	11.2	36.9	52.1	59.4	66.5	69.3	----	47.4	28.7	7.8	----
1961	-6.2	14.9	31.7	37.3	53.7	68.9	68.9	72.6	55.4	46.6	28.7	6.3	39.9
1962	0.9	2.8	19.4	36.1	54.0	65.3	67.3	69.4	55.4	49.4	32.0	14.7	38.9

Total Precipitation (Inches)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1911	2.12	.71	.11	2.07	3.76	4.22	1.61	2.78	2.06	1.61	.57	.25	21.87
1912	.12	.10	.08	2.05	3.05	1.11	2.63	2.26	2.11	1.34	.08	.40	15.33
1913	.35	.14	.80	.89	1.44	1.62	2.02	2.36	1.91	1.49	.07	.07	13.16
1914	.99	.83	.59	2.40	1.50	5.86	1.75	3.87	1.19	1.56	.45	.48	21.47
1915	.18	1.42	.10	1.49	3.02	3.71	3.90	1.94	1.45	.23	1.39	.80	19.63
1916	1.76	.57	1.28	.54	1.24	3.47	1.40	2.48	1.26	.79	.01	1.61	16.41
1917	.48	.91	.14	1.52	.15	1.82	2.72	.83	.69	.97	.17	.65	11.05
1918	.54	.35	.21	2.55	1.69	2.13	3.11	2.46	1.25	.89	1.12	.84	17.14
1919	.23	.47	.57	1.38	3.49	2.46	1.98	2.71	.89	.75	2.04	.23	17.20
1920	.85	.77	.83	.38	1.87	2.72	2.08	1.63	4.15	.47	.49	.26	16.50
1921	.35	.44	.87	1.23	1.05	3.67	4.22	2.83	3.06	.66	.40	.52	19.30
1922	.44	1.35	.90	.58	4.17	3.17	3.41	1.83	4.86	.21	3.40	1.14	25.46
1923	.49	1.11	.43	.60	1.68	2.42	2.12	2.42	3.13	.72	.67	.22	16.01
1924	.41	.14	.18	4.39	1.17	2.71	3.23	2.47	3.09	2.45	.22	.33	20.79
1925	.28	.26	1.21	1.45	1.44	7.76	1.78	1.70	6.74	.74	.08	.27	23.71
1926	.20	.38	.59	.08	1.97	3.74	1.40	1.42	1.76	2.89	1.07	.63	16.13
1927	.75	.27	T	.82	5.25	4.48	1.05	4.27	.58	1.91	.57	.34	20.29
1928	.57	T	.50	.68	1.71	5.17	2.88	3.06	.25	.20	1.20	.49	16.71
1929	.77	.17	.72	1.46	1.78	.96	3.62	.64	1.48	1.83	.42	.60	14.45
1930	.27	2.00	.25	.27	3.97	3.07	1.35	.68	2.66	1.82	2.73	.36	19.43
1931	.22	T	1.38	T	2.05	1.37	5.15	2.80	4.14	2.61	1.50	.26	21.48
1932	.40	.40	T	2.39	1.75	3.10	2.02	1.84	1.54	3.57	.96	.30	18.27
1933	.64	.20	.12	.92	2.79	1.66	1.41	.76	.85	.25	.75	1.48	11.83
1934	.20	.12	.10	1.28	.48	3.42	1.64	.57	.80	2.54	.42	.42	11.99
1935	.70	T	.90	1.87	1.90	3.02	3.39	2.39	.92	.32	.83	.38	16.62
1936	.74	1.51	.93	.47	.36	3.11	2.13	1.73	1.04	.34	.17	.31	12.84
1937	1.24	.58	.07	4.12	2.07	2.45	9.48	1.45	1.43	.28	.89	.37	24.43
1938	.27	.81	.57	1.56	2.58	2.65	1.89	1.74	.40	.31	.71	.29	13.78
1939	.62	1.64	.71	.95	.97	2.37	2.29	3.86	2.05	.74	T	T	16.20
1940	.11	1.21	.79	2.04	.95	.94	5.08	2.90	.82	1.48	.84	1.02	18.18
1941	.75	.35	.94	2.79	1.85	5.85	1.70	3.49	6.56	2.11	.20	.07	26.65
1942	.28	.19	3.78	1.99	1.28	1.49	5.66	4.39	.66	.06	.48	.73	20.99
1943	.31	.64	1.42	1.71	2.44	3.91	6.01	1.26	1.00	.62	.78	.27	20.37
1944	T	.12	2.04	.09	1.96	5.69	2.48	8.25	2.75	.20	3.89	.02	27.49
1945	1.15	.23	.92	.92	1.91	2.30	1.89	.71	3.85	.48	.32	1.49	16.17
1946	.83	.37	1.00	.43	1.29	3.80	1.08	3.26	4.79	2.27	.62	.61	20.35
1947	.45	.70	.32	1.05	.72	4.89	5.26	3.21	3.46	2.01	1.41	1.63	25.11
1948	.47	1.47	.84	2.56	1.30	5.42	4.40	.73	.05	.39	1.11	1.23	19.97
1949	2.28	.94	.64	.05	1.62	2.25	4.69	3.19	.52	5.29	.67	1.42	23.56
1950	1.58	.20	1.92	1.93	4.66	2.42	2.22	1.24	5.43	.62	1.06	.31	23.59
1951	.63	.80	.69	.41	.68	1.98	1.34	6.32	1.32	.41	.77	.53	15.88
1952	1.27	T	.46	.21	.40	2.10	2.73	2.60	.35	.08	.80	.23	11.23
1953	.33	.11	.48	3.09	4.49	3.73	2.18	1.81	1.26	1.29	.37	1.05	20.19
1954	1.63	.40	.46	2.20	3.22	3.67	1.53	4.28	2.49	.27	1.02	.13	21.30
1955	1.52	1.45	.90	1.49	2.79	6.18	2.40	1.37	2.72	1.01	1.90	.55	24.28
1956	1.44	.59	1.86	.15	2.63	5.48	2.77	6.03	.29	1.40	1.39	.58	24.61
1957	.32	.47	.21	.85	1.62	2.83	2.01	3.91	8.93	1.30	.52	.03	23.01
1958	.13	.10	.30	.82	.89	2.62	3.66	.23	1.26	.36	1.26	.36	11.99
1959	.15	.82	.04	.41	3.98	2.61	2.56	5.30	1.12	3.18	.72	.17	21.06
1960	.56	.30	.34	1.82	1.88	3.66	.63	3.60	1.02	1.92	.31	.73	16.77
1961	.48	.39	.04	.72	.74	1.75	4.00	.31	3.89	1.82	.32	.72	15.18
1962	1.53	1.14	1.17	.42	5.17	3.82	1.78	2.05	1.66	.61	.74	.48	20.57

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 8	May 15	May 22	May 29	Jun. 5
28	Apr. 22	Apr. 29	May 6	May 13	May 20
24	Apr. 12	Apr. 20	Apr. 28	May 6	May 14
20	Apr. 3	Apr. 11	Apr. 19	Apr. 28	May 5
16	Mar. 23	Mar. 31	Apr. 9	Apr. 18	Apr. 26

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. 7	Sept. 13	Sept. 19	Sept. 25	Oct. 1
28	Sept. 15	Sept. 21	Sept. 28	Oct. 5	Oct. 11
24	Sept. 25	Oct. 3	Oct. 11	Oct. 19	Oct. 27
20	Oct. 4	Oct. 12	Oct. 21	Oct. 30	Nov. 7
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
1911	-32	-30	-15	5	20	39	40	35	25	12	-31	-26	-32
1912	-44	-27	-15	18	29	31	36	38	22	16	12	-22	-44
1913	-35	-28	-25	18	22	29	37	42	20	-2	2	-16	-35
1914	-26	-47	-13	10	24	36	46	36	30	16	-17	-32	-47
1915	-38	-11	-9	15	26	23	37	27	30	21	-2	-23	-38
1916	-45	-39	-28	2	21	34	46	34	22	7	-7	-34	-45
1917	-41	-39	-32	19	23	25	36	30	18	6	2	-38	-41
1918	-38	-30	-8	9	16	38	40	38	20	22	8	-25	-38
1919	-36	-29	-25	17	23	30	41	33	26	-9	-27	-31	-36
1920	-34	-28	-19	-11	24	37	42	35	28	14	6	-22	-34
1921	-27	-23	-8	21	22	33	51	39	34	26	-15	-22	-27
1922	-35	-29	-11	16	35	40	42	38	32	11	10	-24	-35
1923	-32	-32	-22	10	23	40	44	34	23	13	9	-21	-32
1924	-35	-20	5	11	24	26	39	35	24	29	3	-29	-31
1925	-24	-39	-22	20	17	33	41	41	31	12	-3	-9	-39
1926	-28	-6	-12	10	10	37	37	39	23	23	-9	-25	-28
1927	-35	-18	-1	18	30	34	43	34	20	27	-4	-21	-35
1928	-22	-14	-5	7	25	30	44	37	23	9	8	-13	-22
1929	-34	-36	-10	18	18	35	39	38	20	21	-15	-28	-36
1930	-38	-30	-3	20	23	31	45	45	24	9	-11	-16	-38
1931	-18	-23	-8	16	21	35	46	34	33	26	-1	-15	-23
1932	-21	-21	-14	3	25	47	41	39	32	11	-13	-19	-21
1933	-15	-34	-7	18	29	38	45	38	34	12	-8	-34	-34
1934	-29	-20	-3	17	23	40	42	31	24	20	4	-32	-32
1935	-33	-12	0	12	28	34	52	32	28	9	-12	-24	-33
1936	-39	-41	-19	-2	31	39	47	44	23	-1	-10	-23	-41
1937	-35	-33	-10	19	28	37	49	42	26	15	-13	-25	-35
1938	-27	-24	0	8	29	32	47	42	29	16	-17	-27	-27
1939	-22	-40	-19	8	26	40	39	43	25	17	8	-10	-40
1940	-24	-15	-16	3	28	31	44	44	26	25	-13	-20	-24
1941	-28	-26	-11	18	31	37	43	36	30	7	-5	-11	-28
1942	-25	-21	7	18	30	37	43	37	18	14	-6	-28	-28
1943	-32	-23	-15	15	26	37	51	44	27	18	6	-14	-32
1944	-12	-21	-17	4	23	39	44	42	31	20	8	-15	-21
1945	-26	-17	-9	19	21	34	41	32	21	12	-9	-22	-26
1946	-27	-28	-15	21	15	31	43	40	31	19	-11	-26	-28
1947	-21	-19	-2	18	22	34	40	42	22	25	-14	-27	-27
1948	-37	-33	-33	0	30	40	47	47	39	15	-10	-30	-37
1949	-33	-30	-13	12	32	32	42	40	22	16	-2	-28	-33
1950	-37	-34	-27	-5	29	36	49	36	33	20	-12	-23	-37
1951	-37	-29	-17	20	30	40	40	--	21	6	-15	-30	-37
1952	-35	-9	-18	11	30	36	40	39	28	3	-7	-11	-35
1953	-25	-20	-15	7	21	31	40	45	31	20	10	-23	-25
1954	-41	-14	-5	-4	24	36	41	41	35	22	7	-12	-41
1955	-30	-31	-25	26	20	41	43	42	27	16	-16	-32	-32
1956	-20	-35	-25	11	29	31	45	41	25	12	-22	-22	-35
1957	-26	-18	-7	11	28	36	46	--	27	16	1	--	-26
1958	-15	-27	3	12	19	33	43	40	33	22	-22	-24	-27
1959	-33	-35	-10	18	29	34	43	44	20	3	-16	-2	-35
1960	-33	-30	-27	8	19	32	36	41	31	21	-3	-28	-33
1961	-28	-22	5	7	23	38	42	39	23	16	0	-20	-28
1962	-38	-35	-30	0	27	38	41	43	26	15	8	-25	-38

Monthly Maximum Temperature (°F)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1911	26	32	60	84	91	94	90	91	83	78	47	38	94
1912	28	41	49	80	85	100	93	86	94	78	47	43	100
1913	35	34	45	84	95	98	93	99	92	80	62	55	99
1914	44	42	55	70	88	91	96	94	93	91	65	30	96
1915	32	36	50	83	83	83	84	92	95	74	57	36	95
1916	25	44	50	68	80	82	96	98	91	73	64	53	98
1917	40	31	53	57	91	91	104	97	86	73	66	40	104
1918	29	46	69	74	92	87	94	97	79	78	63	44	97
1919	40	33	42	72	97	89	93	100	88	82	42	42	100
1920	30	33	50	60	82	88	93	100	93	88	59	35	100
1921	35	39	55	71	85	92	99	94	89	77	55	41	99
1922	40	25	54	77	84	94	94	97	92	88	54	41	97
1923	43	37	48	90	80	92	96	90	87	74	64	48	96
1924	42	46	48	65	76	86	89	90	84	81	54	40	90
1925	38	49	61	81	98	82	94	101	88	60	59	46	101
1926	44	50	65	87	98	87	100	96	89	70	54	55	100
1927	41	40	57	70	78	89	88	92	91	82	51	36	92
1928	44	43	64	78	96	89	88	94	87	79	58	48	96
1929	17	34	63	72	90	92	97	100	97	76	49	41	100
1930	37	46	47	77	94	89	96	96	89	72	62	40	96
1931	42	45	46	84	87	102	105	99	101	84	67	40	105
1932	39	56	44	73	92	92	101	95	89	79	41	42	101
1933	39	41	55	76	85	104	97	98	87	79	51	49	104
1934	41	43	50	87	107	91	105	102	87	86	63	39	107
1935	29	43	51	70	82	85	99	98	87	74	39	32	99
1936	21	24	43	72	94	97	108	97	92	88	62	47	108
1937	23	36	49	65	91	93	93	98	93	84	65	39	98
1938	35	44	66	75	76	92	98	99	93	85	61	41	99
1939	32	41	64	83	99	88	104	97	93	72	68	63	104
1940	45	42	38	70	89	91	99	91	92	78	48	40	99
1941	39	40	42	79	90	95	102	92	90	70	55	51	102
1942	52	32	50	79	81	84	88	96	86	83	56	32	96
1943	39	43	52	73	85	91	92	92	85	87	50	45	92
1944	50	36	49	72	92	89	93	88	78	78	54	41	93
1945	35	42	68	64	79	92	96	101	97	81	55	44	101
1946	29	38	80	84	88	91	95	98	85	76	60	41	98
1947	40	41	49	86	80	81	93	101	100	81	52	42	101
1948	35	33	41	79	95	95	93	96	95	72	55	40	96
1949	40	35	42	86	86	86	95	102	81	77	70	40	102
1950	17	33	42	52	82	95	100	95	93	74	63	38	100
1951	39	38	52	73	87	86	101	92	82	79	50	47	101
1952	42	40	57	97	89	94	95	102	98	76	60	38	102
1953	41	39	55	72	90	93	91	100	93	86	63	40	100
1954	39	43	50	75	83	93	95	89	89	76	61	43	95
1955	24	34	51	82	95	88	98	97	93	81	48	35	98
1956	28	37	40	60	86	95	86	92	83	82	58	47	95
1957	32	39	58	85	85	82	95	92	80	80	56	48	95
1958	46	65	58	82	90	90	97	101	--	78	71	42	101
1959	33	39	56	76	86	96	100	94	94	73	40	40	100
1960	34	37	38	65	85	83	97	95	95	83	51	39	97
1961	42	38	60	70	88	99	95	100	89	83	63	32	100
1962	42	44	40	75	80	92	85	98	87	78	52	54	98

STATION HISTORY

A Climatological Station was established at the Grafton State School in January, 1893, and records have been made continuously, except for minor breaks, since that time. The station has remained in the same location since its establishment but several different employees of the school have served as observers. The maximum and minimum thermometers, and the standard rain and snow gages are located over sod under standard regulations.