CLIMATOLOGICAL SUMMARY

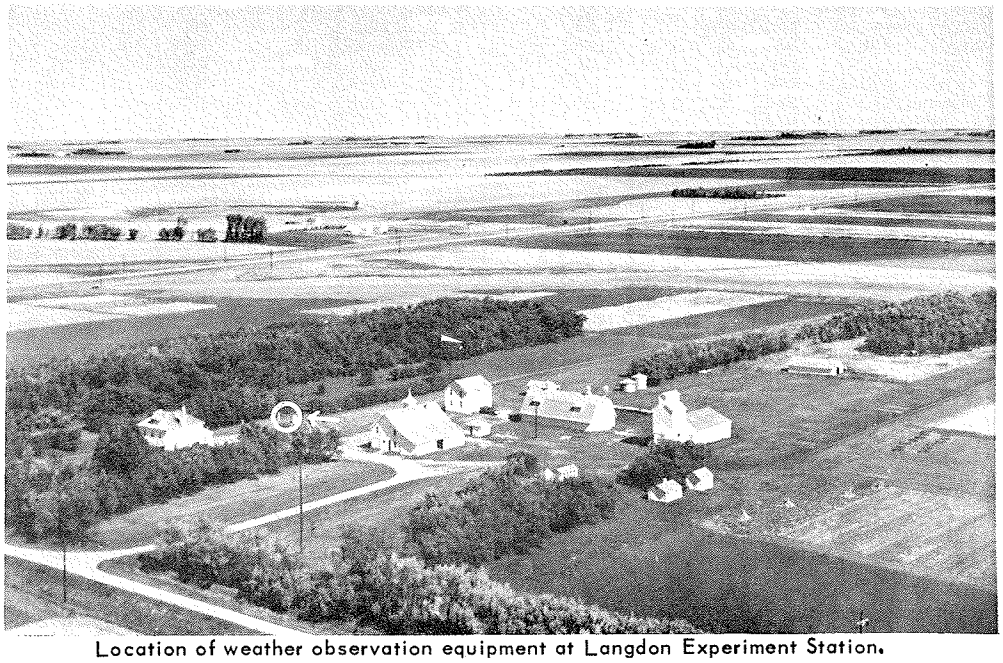
CLIMATOGRAPHY OF THE U. S. NO. 20 - 32

LANGDON, NORTH DAKOTA

Latitude 48° 45' N Longitude 98° 20' W

ELEVATION 1615 FEET

Data Compiled From Official U. S. Weather Bureau Records



Location of weather observation equipment at Langdon Experiment Station.

Prepared by Weather Bureau State Climatologist For North Dakota

In Cooperation With Langdon Experiment Station

Langdon, North Dakota

CLIMATE OF LANGDON, NORTH DAKOTA

Langdon, the county seat of Cavalier County, is located in the central portion of the county in northeastern North Dakota less than 100 miles from the geographical center of the North American continent. The surrounding country is nearly level, fertile farmland which supports extensive agriculture. The main cash crops of the area are wheat, barley and oats.

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

The climate of Langdon is continental in character and typical of the Great Plains with cold winters, warm summers and moderate annual rainfall. The presence of the Rocky Mountains far to the west limits the modifying influences of the air masses from the west and because there are no obstacles to the winds from the arctic north or the subtropical south the area is subject to wide variations in temperatures from day to day and month to month. Summers are warm and pleasant with sunny days and cool nights. Hot, humid days are rare. 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.

Maximum temperatures during the three summer months of June, July and August average only 78 degrees. Temperatures of 90 degrees or more occur on an average of 10 days per year ranging from one day in the coolest summers to 41 days in 1936. The highest temperature ever recorded was 112 which occurred on July 7 and July 12, 1936. Temperatures during the winter months of December, January and February average about 5 degrees. Temperatures drop to zero or below on an average of 58 days during the year; the lowest temperature ever recorded was 51 degrees below zero on February 16, 1936.

The average annual precipitation at Langdon is 18.18 inches, of which 75% occurs in the growing season. There has been a range in annual precipitation from less than 11 inches in 1933 to 31 inches in 1896. Summertime precipitation usually occurs in the form of thunderstorms with about 30 storms per year mostly in June, July and August. Precipitation of .10 inch or more can be expected on an average of 48 days per year and 1.00 inch or more of precipitation per day can be expected about twice a year. June is usually the wettest month of the year and June, 1901, when 9.21 inches of precipitation was measured, is the wettest month on record. The likelihood of receiving 1.00 inch or more of precipitation in a 7-day period during the summer is greatest the third week in June when the chance is 3 in 10 years. The likelihood of a dry 7-day period, trace or less, is greatest the first week in March when the chance is once in two years. Intensities of about 1.00 inch in 1 hour, 1.50 inches in 6 hours and 2.00 inches in 24 hours can be expected once in 2 years. About 39 inches of snow can be expected each year in Langdon, but snowfall has ranged from over 86 inches in 1949-1950 to 13 inches in 1957-1958. About 29 inches of snow fell in November, 1958, for the greatest monthly total, and over 16 inches fell in a single day on April 24, 1953. Measurable snow can be expected once in 10 years in September, once in 2 years in October, and once in 4 years in May.

Wind, sunshine and relative humidity records are not available, but the following data from Devils Lake should approximate conditions at Langdon. 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 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	67		67		30	50	50		50	50		50		50	50	50	50	50	
J	12.3	-10.2	2.1	52	1942	-50	1916	1956	0.75	0.80	1914	7.7	24.0	1917	7.8	1950	3	0	29	31	23	
F	17.4	-6.0	5.7	55	1958	-51	1936	1646	0.56	0.70	1931	5.6	25.0	1930	7.0	1931	2	0	23	28	18	
M	31.0	8.1	18.5	77	1910	-40	1948	1404	0.84	2.00	1951	7.2	22.7	1942	12.0	1956	3	0	17	30	10	
A	49.7	26.2	38.0	95	1952	-15	1936	798	1.18	2.10	1953	2.7	19.4	1953	16.6	1953	4	0	2	22	*	
M	65.8	37.7	51.8	111	1934	10	1958	403	1.98	1.45	1915	0.5	8.3	1950	3.5	1950	5	*	0	10	0	
J	73.4	48.1	60.8	100	1910	24	1897	159	2.98	1.88	1932						7	1	0	1	0	
J	80.4	53.3	66.9	112	1936	30	1898	53	2.53	3.08	1958						5	4	0	0	0	
A	79.2	50.9	65.1	102	1949	30	1934	71	2.58	2.35	1956						6	4	0	*	0	
S	68.4	41.1	54.8	101	1931	15	1928	300	2.13	2.53	1941	0.2	3.0	1945	3.0	1945	5	1	0	5	0	
O	54.6	29.7	42.2	90	1934	-7	1918	685	1.17	2.34	1949	2.3	23.0	1959	6.0	1959	3	0	2	19	*	
N	33.1	14.4	23.8	68	1939	-25	1918	1263	0.88	1.23	1928	6.3	29.0	1958	7.0	1950	3	0	14	28	5	
D	18.5	-1.5	8.5	64	1939	-42	1917	1717	0.60	1.20	1916	6.2	24.0	1916	12.0	1916	2	0	26	31	2	
Year	48.7	24.3	36.5	112	1936	-51	1936	10455	18.18	3.08	1958	38.7	29.0	1958	16.6	1953	48	10	113	205	58	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
1913-14	0	0	0	0	12.0	T	3.0	0	0	
1914-15	0	0	6.0	20.0	5.0	4.0	10.0	0	0	45.0
1915-16	0.5	T	3.5	11.0	17.0	6.0	12.5	T	0	50.5
1916-17	0	6.0	0.4	24.0	24.0	11.0	3.0	T	0	68.4
1917-18	0	14.5	1.0	2.5	4.0	2.0	0	T	0	24.0
1918-19	0	T	6.0	10.5	2.5	9.0	10.0	3.0	0	41.0
1919-20	0	12.0	19.2	5.0	21.0	3.0	7.5	T	0	67.7
1920-21	0	0	7.0	0.7	2.0	4.0	3.5	1.0	0	18.2
1921-22	0	T	11.0	1.5	7.0	1.0	20.5	0	0	41.0
1922-23	0	0	6.8	8.0	0.5	7.5	7.5	2.5	0	32.8
1923-24	0	2.0	T	4.0	11.0	6.5	7.0	T	0	30.5
1924-25	0	0	6.0	5.0	3.0	0.5	9.0	T	0	23.5
1925-26	0	4.0	1.0	2.0	T	1.1	5.2	T	0	13.3
1926-27	0	2.0	10.5	4.5	2.0	1.0	7.0	T	0	27.0
1927-28	0	0	15.5	1.0	T	0.5	10.0	3.0	0	30.0
1928-29	0	0	0	10.0	9.5	8.0	2.0	2.8	0	32.3
1929-30	0	5.0	16.0	6.5	5.0	25.0	0	0	0	57.5
1930-31	0	3.0	10.0	0.5	5.0	9.0	8.0	2.0	T	37.5
1931-32	0	T	7.0	T	7.0	3.0	11.0	3.0	0	31.0
1932-33	0	10.0	7.0	5.0	20.0	6.5	2.0	8.0	0	58.5
1933-34	0	2.5	5.0	5.0	8.0	0	0	6.0	0	26.5
1934-35	2.0	0	1.5	9.0	7.0	8.0	7.0	0.5	0	35.0
1935-36	0	0	7.0	9.0	9.0	18.0	5.0	0	0	48.0
1936-37	0	2.0	1.6	9.2	7.2	9.8	3.0	2.0	0	34.8
1937-38	0	0	1.4	4.4	5.5	7.3	0.6	0	0	19.2
1938-39	0	0	4.4	6.2	6.3	10.0	1.7	1.0	0	29.6
1939-40	T	1.5	0	1.0	2.3	10.6	6.4	7.0	0	28.8
1940-41	0	0	6.3	7.5	13.3	4.0	11.9	T	T	43.0
1941-42	0	2.5	1.2	3.4	2.0	2.6	22.7	1.0	3.1	38.5
1942-43	0.8	0	1.4	10.7	7.3	4.7	13.7	T	0.8	39.4
1943-44	0	0	3.6	3.3	0.9	2.8	20.4	0	T	31.0
1944-45	0	0	11.1	2.3	6.1	2.0	3.6	7.8	1.5	34.4
1945-46	3.0	T	10.8	8.9	8.0	5.0	4.3	0.5	1.5	42.0
1946-47	0	9.8	6.3	3.6	5.7	8.1	5.3	1.5	T	40.3
1947-48	0	0	6.4	8.6	4.0	11.2	4.6	7.0	3.0	44.8
1948-49	0	0	4.6	14.8	21.8	4.6	8.4	0	0	54.2
1949-50	0	2.9	4.0	10.9	19.1	3.9	22.0	15.6	8.3	86.7
1950-51	T	4.0	11.4	3.7	6.8	6.6	6.5	3.6	0	42.6
1951-52	1.0	1.0	7.4	3.9	8.6	1.2	3.5	T	0	26.6
1952-53	0	T	1.0	0.9	7.9	2.0	2.2	19.4	0.5	33.9
1953-54	0	0	2.0	4.5	13.4	1.2	3.2	9.0	1.5	34.8
1954-55	T	0.5	3.6	0.2	5.5	7.4	8.0	1.5	T	26.7
1955-56	T	1.5	18.7	5.6	15.2	5.6	22.6	1.3	0.5	71.0
1956-57	T	0.5	3.4	8.7	3.2	3.7	2.8	2.1	0	24.4
1957-58	0	0.4	4.1	1.2	1.9	1.5	3.3	0.6	0	13.0
1958-59	T	0	29.0	7.4	3.9	6.3	6.0	0.5	0	53.1
1959-60	T	23.0	6.2	3.0	7.8	1.4	2.9	10.2	0.2	54.7
1960-61	0	T	4.8	10.0	4.0	7.9	0.1	2.0	0.2	29.0
1961-62	0	0	0.8	9.7	13.1	9.5	14.6	1.5	2.8	52.0
1962-63	0	0.3	4.6	5.0	1.2	6.0	3.8	3.6	0	24.5

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 19	May 26	Jun. 2	Jun. 9	Jun. 16
28	May 4	May 11	May 18	May 25	Jun. 1
24	Apr. 21	Apr. 29	May 7	May 15	May 23
20	Apr. 10	Apr. 18	Apr. 26	May 5	May 12
16	Apr. 2	Apr. 10	Apr. 19	Apr. 28	May 6

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. 2	Sept. 8	Sept. 14	Sept. 20	Sept. 26
28	Sept. 8	Sept. 14	Sept. 21	Sept. 28	Oct. 4
24	Sept. 16	Sept. 24	Oct. 2	Oct. 10	Oct. 18
20	Sept. 26	Oct. 4	Oct. 13	Oct. 22	Oct. 30
16	Oct. 8	Oct. 16	Oct. 25	Nov. 3	Nov. 11

Total Precipitation (Inches)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1913	.65	.45	1.05	.51	.96	2.63	1.88	4.00	1.90	1.73	T	T	15.76
1914	1.20	T	.40	.88	1.84	3.41	1.78	2.77	1.49	1.45	.70	2.00	17.52
1915	.50	.20	1.00	1.62	2.03	2.78	2.72	1.64	2.77	.38	.70	1.10	17.55
1916	1.70	.25	1.25	1.22	1.29	2.65	2.49	2.16	1.75	1.05	.04	2.40	18.85
1917	2.40	1.10	.30	1.37	.16	2.67	2.58	1.59	.77	1.99	.10	.25	15.28
1918	.40	.20	.10	2.08	1.52	3.56	3.92	2.10	1.02	.54	1.66	1.05	18.15
1919	.25	.00	1.10	.60	2.68	3.20	.71	4.38	.97	1.02	1.92	.50	18.23
1920	2.10	.30	.80	.42	1.40	1.30	.85	1.29	2.70	.27	1.10	.07	12.60
1921	.20	.40	.35	1.45	2.68	2.55	4.10	2.49	4.59	.58	1.10	.20	20.78
1922	.70	.10	2.05	.53	5.01	4.12	2.96	1.47	5.22	.20	1.88	.53	24.77
1923	.05	.62	.60	.71	.77	1.98	.70	4.55	2.12	1.04	1.07	.36	14.57
1924	.88	.65	.56	4.90	.29	2.63	2.41	1.15	4.23	3.35	.54	.40	21.89
1925	.30	.05	.81	1.30	.83	4.44	1.63	1.72	3.78	.67	.70	.20	16.43
1926	T	.11	.51	.10	1.66	2.80	3.27	2.17	6.02	.57	.86	.45	18.52
1927	.18	.15	.65	1.55	4.08	3.11	1.26	3.89	1.01	2.11	1.55	.10	19.64
1928	T	.04	1.00	1.08	.96	5.24	3.27	1.90	.25	.32	1.28	.80	16.07
1929	.95	.00	.65	1.80	2.03	1.33	.88	.90	2.16	.95	1.60	.65	14.70
1930	.50	2.50	.20	.18	2.86	3.43	1.93	.15	1.10	2.62	1.00	.05	16.52
1931	.50	.90	1.14	.32	.98	2.23	1.27	2.09	3.18	2.53	.70	T	15.84
1932	.70	.30	1.10	1.23	1.20	4.14	2.52	1.92	.10	2.50	.70	.50	16.91
1933	1.60	.52	.20	.80	2.76	.91	.08	.13	1.71	.25	.50	.50	10.86
1934	.80	.00	.10	.60	.55	4.06	1.52	1.84	1.10	.69	.25	.90	12.41
1935	.70	.80	1.10	1.44	1.77	3.30	2.58	3.74	1.69	.40	.70	.90	19.12
1936	.90	1.08	.50	.00	.10	2.17	1.15	1.81	2.61	.42	.16	.77	11.67
1937	.72	.98	.30	2.08	2.36	3.37	5.92	2.90	1.56	.78	.64	.44	23.05
1938	.55	.73	.55	1.48	2.04	1.20	5.43	2.70	.01	.53	.46	.62	16.30
1939	.63	1.00	.17	1.53	1.38	3.72	.63	2.60	.99	.43	.07	.14	13.28
1940	.23	1.06	.64	1.99	1.32	1.87	5.25	2.27	1.33	1.38	.63	.63	18.60
1941	1.07	.27	1.00	3.15	3.62	4.72	1.48	2.32	7.48	2.03	.27	.34	27.75
1942	.23	.26	2.66	1.02	2.85	1.64	4.44	4.69	.77	.12	.29	1.07	20.04
1943	.63	.40	1.14	1.09	2.20	3.14	2.68	2.97	.78	.25	.57	.41	16.26
1944	.10	.27	2.20	.16	1.95	3.97	1.57	8.07	1.73	.15	3.64	.18	23.99
1945	.65	.21	1.85	1.42	2.37	1.69	2.78	1.71	3.09	.42	1.16	.86	18.21
1946	.69	.50	1.33	.66	.97	1.67	2.03	1.53	3.27	2.23	.66	.41	15.95
1947	.63	.90	.57	.48	.54	5.66	1.33	2.60	2.75	2.01	.82	.06	19.15
1948	.41	1.17	.67	2.63	3.40	2.65	4.01	1.31	.04	.96	1.19	1.44	19.88
1949	2.08	.46	.91	.02	1.33	1.67	2.08	.78	.82	4.95	.56	1.05	16.71
1950	1.72	.40	2.20	1.70	4.08	3.40	2.99	.60	3.22	.73	1.27	.39	22.70
1951	.67	1.04	.66	1.00	.43	3.64	1.75	4.54	1.90	.32	.72	.42	17.09
1952	.83	.12	.34	.10	.66	3.20	3.31	2.49	.39	.12	.15	.09	11.80
1953	.77	.26	.53	2.73	3.75	2.94	1.22	3.71	2.22	1.20	.20	.49	20.02
1954	1.26	.25	.42	2.45	3.12	6.80	1.75	5.05	5.71	.79	.43	.02	28.05
1955	.63	.73	.79	1.42	2.92	2.62	4.87	1.32	2.72	1.68	2.08	.56	22.34
1956	1.44	.57	2.23	.12	2.51	5.13	4.05	4.70	.38	1.06	1.65	.85	24.69
1957	.32	.34	.36	.95	1.49	3.17	2.46	5.40	2.12	1.38	.45	.13	18.57
1958	.18	.33	.34	.58	.14	2.39	5.30	.52	.96	.56	3.16	.75	15.21
1959	.41	.45	.23	.65	3.64	3.04	1.74	5.11	2.12	4.53	.68	.40	23.00
1960	.71	.12	.71	1.35	2.74	1.72	.45	3.65	.72	.96	.54	1.08	14.75
1961	.50	.95	.15	.81	1.10	.95	4.51	.14	4.28	.42	.09	.96	14.86
1962	1.21	.94	1.69	.29	6.25	2.06	3.00	3.37	.67	1.15	.76	.56	21.95

Average Temperature (°F)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1913	-2.5	1.3	10.6	43.4	50.0	63.6	62.0	64.7	54.2	36.6	31.7	20.0	36.3
1914	5.7	-10.0	20.9	35.2	53.2	60.3	69.8	61.0	56.8	49.0	24.8	0.8	35.6
1915	-1.2	13.0	22.0	46.4	50.4	54.2	60.6	62.9	53.3	42.8	22.9	10.3	36.5
1916	-11.4	2.0	12.8	34.1	48.1	55.8	70.1	64.4	53.1	35.5	25.3	-3.1	32.2
1917	-9.0	-8.2	18.2	33.8	49.4	57.0	67.0	61.8	54.8	30.4	32.2	-6.2	31.8
1918	-6.6	3.4	30.6	37.6	46.1	59.2	59.8	63.0	49.1	43.3	26.2	11.0	35.2
1919	9.1	0.8	11.6	39.0	54.8	64.7	67.3	63.6	54.8	30.2	11.0	0.6	34.0
1920	-4.2	5.1	15.0	28.2	52.3	60.2	65.0	67.2	59.0	48.2	24.9	10.0	35.9
1921	7.8	11.0	17.4	36.3	52.6	64.5	68.0	62.7	54.6	45.2	17.6	12.8	37.5
1922	2.8	-1.4	24.9	40.7	56.4	61.6	63.3	68.0	58.5	43.7	29.6	2.0	37.5
1923	2.9	-1.0	8.6	34.2	52.8	65.4	70.2	58.7	57.0	42.0	32.2	17.7	36.7
1924	-4.2	13.7	23.2	34.8	44.2	56.3	63.1	61.6	53.4	48.5	21.6	-1.6	34.6
1925	2.7	8.4	20.6	45.4	52.2	58.8	63.7	65.4	54.6	30.2	25.0	11.0	36.5
1926	9.5	15.9	20.0	38.8	54.4	56.7	66.7	62.6	50.2	39.2	17.4	3.6	36.2
1927	2.5	7.0	26.6	37.6	47.4	59.8	64.0	62.6	55.6	45.6	16.0	-2.8	36.2
1928	4.4	12.0	21.2	34.6	55.0	57.2	65.2	63.0	53.2	40.1	27.1	16.8	37.5
1929	-7.8	-1.1	25.9	34.6	46.5	56.4	66.9	65.2	51.8	43.0	20.0	5.3	33.9
1930	-8.3	13.8	17.5	43.0	49.6	61.0	67.7	68.2	52.9	37.1	23.6	12.6	36.6
1931	10.2	19.8	18.7	40.0	49.6	64.2	64.1	62.5	58.0	44.2	26.7	17.3	39.6
1932	5.5	2.2	13.1	38.7	53.3	67.3	65.4	65.9	55.6	34.7	18.9	5.6	35.5
1933	4.2	1.6	21.6	37.3	55.4	69.0	72.0	68.6	58.0	35.9	21.0	-0.4	37.0
1934	7.6	9.6	20.9	39.2	58.3	61.8	69.6	64.8	49.6	44.0	29.6	6.9	38.5
1935	-5.3	18.4	20.0	36.4	49.6	57.8	72.0	64.0	53.2	38.2	11.2	6.8	35.2
1936	-13.5	-18.6	17.8	29.4	58.2	62.2	77.2	67.0	57.6	36.6	27.2	8.6	34.1
1937	-13.2	3.0	20.2	38.1	53.4	61.2	68.6	69.1	56.2	41.1	21.4	5.7	35.4
1938	2.1	4.8	32.4	39.4	50.3	61.8	67.4	67.8	61.4	49.8	20.1	12.2	39.2
1939	7.4	-5.5	20.2	39.4	57.7	59.6	72.0	69.2	56.7	38.3	32.7	24.1	39.3
1940	2.2	12.4	16.0	34.4	5.29	60.5	68.2	64.8	60.7	47.8	20.1	13.5	37.8
1941	5.8	5.8	19.0	42.1	56.8	63.0	69.2	65.0	54.1	42.3	26.0	16.8	38.8
1942	14.4	9.2	27.2	41.4	48.4	59.0	64.1	63.8	52.5	45.8	25.4	4.7	38.0
1943	-4.8	11.4	14.8	42.6	48.7	58.6	69.0	65.1	54.0	47.8	26.2	17.5	37.6
1944	18.2	8.0	15.4	40.5	57.2	60.6	66.4	63.3	54.7	46.7	26.4	11.1	39.0
1945	6.2	10.2	31.7	35.2	45.2	57.6	65.6	64.8	52.0	42.7	18.2	2.6	36.0
1946	3.6	2.1	30.6	46.0	50.7	61.6	68.0	64.2	54.4	38.6	19.9	7.8	37.3
1947	9.9	3.5	19.7	38.4	47.2	58.1	69.0	69.6	53.8	49.4	20.0	8.0	37.2
1948	2.6	2.1	13.2	35.1	54.9	62.8	67.5	66.8	62.5	46.5	25.0	5.0	37.0
1949	-1.7	-2.9	16.2	43.1	54.1	62.4	64.7	69.3	54.4	40.5	31.6	3.8	36.5
1950	-15.8	2.9	14.6	28.2	46.8	59.9	64.5	61.3	57.3	44.3	17.6	3.9	32.1
1951	-2.0	6.5	11.6	36.8	55.7	57.7	65.6	61.4	50.5	40.1	18.2	2.4	33.7
1952	-0.2	16.2	18.7	48.0	53.4	62.6	65.3	65.4	58.9	40.3	27.6	14.5	39.3
1953	6.9	12.2	23.2	34.4	51.1	60.9	66.0	68.3	55.1	51.4	32.8	14.0	39.7
1954	-6.6	23.5	21.0	36.0	47.0	60.1	67.3	63.1	52.7	42.6	31.5	19.4	38.1
1955	4.0	4.4	10.1	46.2	55.0	62.5	69.8	69.3	54.4	44.9	13.8	0.1	36.2
1956	1.9	1.0	13.3	28.5	50.1	65.9	63.7	64.2	50.8	46.4	26.7	10.7	35.2
1957	-2.8	7.4	23.0	38.6	53.4	57.4	69.3	62.8	52.1	43.1	26.0	17.0	37.3
1958	14.2	7.2	27.2	42.6	55.3	57.3	63.8	65.4	56.1	46.1	23.6	2.9	38.5
1959	-4.8	1.8	25.4	39.1	50.1	63.6	67.4	67.5	54.0	34.4	16.3	18.1	36.1
1960	1.6	6.7	12.5	36.6	53.3	60.6	69.0	67.6	57.6	43.9	25.0	7.2	36.8
1961	3.5	12.8	26.5	35.1	51.0	66.6	66.4	70.0	51.4	43.7	25.9	2.7	38.0
1962	-0.7	0.3	17.6	35.1	50.8	63.6	64.4	65.4	53.1	46.3	29.9	11.8	36.5

Minimum Temperature (°F)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1913	—	—	—	21	22	30	39	42	23	2	--	—	—
1914	-28	-43	-19	3	20	36	43	32	29	12	-23	-34	-43
1915	-48	-12	-20	17	21	27	36	32	30	18	0	-23	-48
1916	-50	-36	-36	1	23	31	40	35	23	-2	-9	-42	-50
1917	-45	-45	-31	11	21	28	35	32	23	-2	5	-42	-45
1918	-44	-38	-10	3	13	36	38	37	22	15	2	-34	-44
1919	-42	-40	-30	14	21	33	40	34	24	-7	-25	-35	-42
1920	-40	-35	-27	-9	23	33	37	33	28	13	0	-32	-40
1921	-24	-33	-15	12	22	31	48	35	33	25	-19	-28	-33
1922	-40	-30	-12	15	35	41	40	44	32	16	5	-28	-40
1923	-29	-37	-36	-8	19	34	44	32	22	10	3	-24	-37
1924	-36	-20	-4	9	20	31	37	35	30	29	-5	-40	-40
1925	-32	-32	-23	18	22	34	41	41	30	-3	0	-22	-32
1926	-28	-13	-19	7	16	32	35	41	20	13	-12	-32	-32
1927	-37	-23	0	13	29	32	39	32	17	22	-10	-33	-37
1928	-29	-16	-12	0	25	31	45	31	15	6	2	-23	-29
1929	-39	-38	0	10	10	30	44	35	22	19	-21	-28	-39
1930	-39	-17	-12	11	25	32	43	42	17	10	-18	-24	-39
1931	-22	-19	-15	8	20	30	42	38	32	23	-5	-17	-22
1932	-31	-25	-19	5	25	45	44	40	30	10	-10	-25	-31
1933	-20	-42	-13	15	30	36	43	36	29	7	-5	-38	-42
1934	-35	-30	-8	12	25	38	35	30	25	15	1	-40	-40
1935	-40	-20	-15	10	25	28	48	33	25	9	-12	-28	-40
1936	-43	-51	-18	-15	24	35	42	40	26	-5	-18	-26	-51
1937	-35	-28	-7	12	23	31	45	43	27	12	-12	-24	-35
1938	-35	-34	-2	7	23	31	40	38	26	11	-18	-32	-35
1939	-27	-37	-23	5	19	31	37	37	17	8	2	-16	-37
1940	-31	-23	-24	-9	24	31	41	40	24	21	-17	-31	-31
1941	-32	-38	-23	12	26	32	36	33	24	0	-7	-18	-38
1942	-31	-26	1	10	21	31	37	34	18	7	-7	-24	-31
1943	-40	-22	-23	12	18	30	47	38	27	14	-4	-22	-40
1944	-19	-29	-17	-6	14	34	39	36	30	18	1	-20	-29
1945	-30	-22	-20	15	17	32	38	38	19	9	-14	-32	-32
1946	-28	-35	-16	20	15	30	37	36	27	11	-12	-30	-35
1947	-25	-28	-10	12	14	25	35	35	19	25	-10	-28	-28
1948	-40	-29	-40	-10	27	35	43	40	34	11	-14	-32	-40
1949	-39	-30	-18	12	24	32	37	35	21	12	-1	-28	-39
1950	-40	-34	-26	-9	27	28	37	34	31	23	-18	-30	-40
1951	-38	-32	-24	17	25	29	39	41	19	6	-19	-32	-38
1952	-30	-15	-26	12	24	36	37	38	27	4	-13	-16	-30
1953	-27	-20	-20	1	21	31	40	43	27	19	9	-24	-27
1954	-35	-19	-15	-8	21	32	40	36	30	15	-2	-11	-35
1955	-25	-30	-33	22	22	38	40	39	22	12	-17	-32	-33
1956	-32	-34	-27	0	27	36	42	42	20	14	-8	-27	-34
1957	-34	-23	-13	5	27	33	43	36	23	12	-4	-23	-34
1958	-14	-32	-7	3	10	28	40	31	29	17	-31	-28	-32
1959	-33	-32	-12	15	21	32	42	39	24	13	-13	-8	-33
1960	-32	-26	-27	-1	22	33	35	36	27	18	-15	-28	-32
1961	-40	-22	-5	3	15	32	40	39	20	15	-5	-24	-40
1962	-35	-40	-35	1	23	36	40	38	27	14	4	-25	-40

Maximum Temperature (°F)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1913	—	--	—	81	91	93	96	92	87	76	—	—	96
1914	39	40	43	66	84	89	95	95	90	88	62	31	95
1915	31	33	49	82	80	78	84	92	91	73	58	32	92
1916	20	39	40	66	80	77	98	95	89	70	59	47	98
1917	36	26	44	53	91	92	101	95	90	69	58	36	101
1918	28	41	64	71	90	93	89	94	87	76	56	39	93
1919	36	33	38	68	95	90	98	96	84	80	40	36	98
1920	29	30	49	56	70	88	94	98	89	89	53	31	98
1921	33	39	53	70	84	97	98	93	86	77	54	40	98
1922	34	24	50	73	81	92	92	97	94	88	50	32	97
1923	28	34	43	75	87	90	96	86	88	73	59	45	96
1924	37	46	42	59	79	80	87	92	84	74	45	35	92
1925	32	41	59	78	95	83	93	93	91	55	51	52	95
1926	37	44	59	85	91	87	104	100	76	60	46	36	104
1927	39	37	49	65	78	87	91	93	90	81	47	32	93
1928	40	37	63	76	94	81	87	100	80	72	54	41	100
1929	27	36	63	66	83	85	98	101	100	75	41	34	101
1930	26	41	41	80	86	85	92	97	92	71	57	38	97
1931	38	45	42	80	85	98	105	100	101	81	60	38	105
1932	34	40	38	70	90	87	94	94	95	84	42	42	95
1933	34	42	52	76	89	106	103	102	90	70	45	44	106
1934	40	40	38	85	111	92	109	101	90	90	63	40	111
1935	33	44	50	68	86	84	95	102	87	74	36	30	102
1936	21	15	40	70	97	96	112	102	95	83	57	42	112
1937	19	34	42	62	90	95	96	96	89	81	60	34	96
1938	30	41	68	70	78	92	94	96	96	84	54	39	96
1939	32	37	65	81	93	84	101	96	93	70	68	64	101
1940	43	39	42	67	86	89	97	90	90	75	47	36	97
1941	38	34	45	77	88	90	100	91	85	67	52	52	100
1942	52	34	48	77	76	83	89	92	84	80	59	27	92
1943	37	43	47	75	83	87	89	90	84	87	48	45	90
1944	48	35	45	68	90	85	95	86	78	77	60	37	95
1945	35	40	67	65	77	93	90	98	96	81	52	40	98
1946	34	33	73	82	83	89	97	100	89	75	52	37	100
1947	38	34	43	85	79	80	93	100	92	80	54	35	100
1948	38	32	40	70	90	92	99	93	97	74	48	35	99
1949	39	34	41	84	84	95	96	102	86	78	66	40	102
1950	10	30	45	52	80	89	90	88	92	71	60	34	92
1951	33	39	42	67	86	85	96	86	80	76	53	43	96
1952	40	37	50	95	87	91	90	98	94	72	59	39	98
1953	37	38	56	74	87	90	89	98	90	85	64	40	98
1954	34	42	44	71	83	88	90	88	83	73	58	41	90
1955	27	33	52	84	86	89	96	95	93	77	47	34	96
1956	31	32	41	48	83	92	85	88	83	76	49	40	92
1957	30	35	53	83	81	79	97	90	78	83	51	42	97
1958	43	55	56	83	85	90	95	97	86	84	63	38	97
1959	31	35	54	74	84	94	98	96	93	69	38	38	98
1960	33	36	38	65	84	85	99	93	93	80	51	37	99
1961	39	40	51	68	87	98	94	97	87	84	62	32	98
1962	37	40	37	76	78	88	83	90	86	75	51	44	90

MAXIMUM TEMPERATURES OF RECORD FOR THE PERIOD 1896-1962
YEAR OF LAST OCCURRENCE

Day	January Temp	Year	February Temp	Year	March Temp	Year	April Temp	Year	May Temp	Year	June Temp	Year	July Temp	Year	August Temp	Year	September Temp	Year	October Temp	Year	November Temp	Year	December Temp	Year
1	39	1927	46	1924	44	1938	70	1928	84	1959	92	1934	91	1937	95	1946	100	1929	88	1914	63	1958	52	1925
2	41	1944	44	1935	44	1942	58	1929	87	1952	92	1948	95	1933	100	1946	94	1929	84	1914	62	1958	48	1941
3	38	1948	40	1954	45	1934	65	1912	87	1952	89	1959	95	1933	100	1934	95	1948	83	1922	58	1949	47	1916
4	34	1946	41	1925	46	1934	70	1912	90	1918	93	1961	99	1933	100	1931	97	1948	86	1947	59	1952	50	1939
5	39	1958	37	1925	42	1937	64	1954	91	1934	96	1933	101	1936	96	1933	96	1945	89	1909	65	1949	54	1939
6	39	1949	40	1925	41	1906	68	1931	87	1928	94	1959	107	1936	97	1949	94	1945	88	1909	66	1949	64	1939
7	37	1949	38	1954	40	1906	72	1931	88	1934	92	1961	112	1936	100	1931	101	1931	89	1920	59	1923	59	1939
8	43	1958	42	1954	40	1954	75	1925	92	1934	90	1961	95	1936	100	1949	95	1932	87	1943	60	1931	47	1939
9	41	1958	38	1961	41	1937	78	1925	83	1958	92	1917	98	1921	102	1933	93	1959	81	1938	61	1905	53	1939
10	41	1929	39	1940	47	1922	80	1930	80	1958	93	1918	106	1936	102	1936	92	1930	86	1934	62	1961	44	1939
11	37	1942	37	1961	57	1910	74	1955	91	1906	95	1949	110	1936	97	1958	93	1952	80	1934	60	1937	53	1939
12	36	1942	41	1924	50	1933	75	1930	85	1958	93	1913	112	1936	100	1928	91	1952	84	1934	62	1953	49	1939
13	40	1944	41	1935	49	1927	77	1908	90	1932	96	1936	106	1936	97	1922	90	1927	90	1934	61	1953	37	1959
14	36	1943	40	1935	58	1934	83	1958	87	1932	93	1933	100	1936	102	1935	89	1946	78	1958	64	1953	40	1923
15	38	1942	38	1931	49	1918	76	1915	89	1933	101	1933	104	1936	100	1933	87	1946	82	1953	65	1934	47	1939
16	40	1942	41	1907	48	1939	77	1952	91	1917	100	1933	102	1936	94	1961	89	1948	81	1945	63	1934	46	1939
17	43	1942	40	1935	76	1910	80	1931	85	1933	102	1933	101	1934	98	1945	88	1933	76	1945	55	1939	49	1939
18	40	1942	40	1935	65	1910	82	1952	90	1934	106	1933	109	1934	98	1945	93	1939	80	1914	51	1916	45	1923
19	44	1942	42	1943	72	1910	85	1926	90	1948	93	1910	99	1933	98	1933	90	1914	81	1927	51	1925	37	1957
20	48	1944	45	1931	70	1910	80	1952	86	1961	100	1910	99	1960	96	1933	88	1937	77	1958	50	1954	42	1957
21	47	1942	42	1943	77	1910	82	1915	91	1928	98	1910	97	1960	100	1931	95	1938	74	1953	57	1939	40	1954
22	44	1942	43	1958	74	1910	75	1942	94	1928	93	1945	93	1940	100	1947	96	1938	68	1953	58	1939	41	1954
23	52	1942	49	1905	72	1910	77	1942	86	1951	98	1910	95	1958	96	1952	90	1917	72	1952	52	1942	42	1936
24	43	1942	47	1958	61	1945	76	1962	86	1919	93	1924	100	1931	94	1952	83	1949	73	1948	54	1942	42	1943
25	36	1944	55	1958	59	1910	78	1910	85	1941	95	1910	105	1931	98	1953	92	1938	74	1948	51	1960	40	1943
26	40	1934	53	1958	68	1938	90	1952	92	1934	94	1961	103	1933	94	1953	90	1952	77	1955	51	1962	38	1956
27	40	1934	47	1905	73	1946	95	1952	91	1913	99	1910	100	1930	95	1939	94	1952	80	1938	46	1962	40	1928
28	37	1924	40	1934	70	1946	92	1952	97	1936	98	1961	101	1917	92	1961	90	1952	74	1938	44	1949	33	1954
29	38	1941	39	1924	62	1918	89	1952	95	1925	99	1910	96	1939	99	1929	84	1943	70	1950	48	1951	36	1926
30	43	1940			64	1918	84	1955	111	1934	96	1912	97	1946	99	1929	88	1922	71	1950	50	1939	41	1943
31	40	1952			58	1925			95	1936			104	1926	97	1929			64	1958			37	1953

MINIMUM TEMPERATURES OF RECORD FOR THE PERIOD 1896-1962
YEAR OF LAST OCCURRENCE

Day	January Temp	Year	February Temp	Year	March Temp	Year	April Temp	Year	May Temp	Year	June Temp	Year	July Temp	Year	August Temp	Year	September Temp	Year	October Temp	Year	November Temp	Year	December Temp	Year
1	-35	1919	-40	1918	-36	1916	-8	1923	10	1958	25	1947	37	1939	36	1927	28	1946	16	1961	-1	1951	-22	1930
2	-34	1912	-45	1917	-36	1916	-10	1948	10	1929	30	1946	35	1917	39	1917	29	1917	21	1936	-7	1935	-24	1927
3	-42	1919	-45	1917	-33	1916	-8	1954	16	1929	28	1950	35	1960	33	1907	28	1918	21	1936	-7	1919	-23	1927
4	-33	1924	-39	1936	-31	1917	-9	1936	20	1926	28	1910	38	1924	35	1923	25	1930	14	1952	-10	1951	-23	1930
5	-39	1912	-45	1936	-27	1920	1	1916	14	1944	28	1958	36	1915	42	1923	30	1962	15	1935	-10	1935	-23	1950
6	-41	1909	-45	1936	-33	1955	2	1920	19	1907	28	1935	34	1908	41	1919	27	1956	15	1954	-12	1935	-24	1950
7	-36	1936	-40	1936	-25	1920	-5	1936	17	1907	27	1915	31	1908	35	1921	33	1937	20	1952	0	1925	-26	1958
8	-34	1930	-41	1933	-21	1956	-15	1936	14	1947	30	1958	40	1922	42	1932	23	1907	16	1917	-5	1935	-29	1927
9	-39	1930	-42	1933	-30	1948	-1	1960	17	1945	31	1939	38	1945	37	1939	24	1918	10	1932	-5	1919	-35	1909
10	-40	1912	-35	1933	-15	1956	8	1939	18	1907	35	1927	39	1951	36	1954	22	1918	12	1932	-14	1945	-34	1919
11	-46	1912	-43	1914	-27	1956	-9	1940	19	1939	30	1947	36	1941	36	1946	22	1955	11	1932	-11	1935	-25	1924
12	-50	1916	-43	1936	-25	1956	-9	1950	13	1918	30	1958	35	1926	33	1920	29	1910	3	1917	-7	1916	-32	1917
13	-48	1916	-39	1936	-16	1960	-6	1907	20	1945	31	1942	37	1950	36	1898	22	1923	17	1937	-20	1919	-27	1940
14	-45	1917	-41	1936	-23	1925	6	1962	20	1914	28	1898	41	1952	35	1929	20	1956	12	1937	-20	1919	-33	1917
15	-43	1917	-48	1936	-16	1949	3	1962	23	1946	30	1915	35	1912	40	1929	23	1945	8	1919	-10	1938	-35	1919
16	-36	1935	-51	1936	-20	1955	4	1907	20	1961	33	1939	36	1911	33	1896	24	1916	9	1919	-12	1959	-25	1924
17	-38	1943	-34	1956	-23	1941	1	1953	24	1925	35	1948	38	1911	35	1950	26	1959	10	1919	-22	1914	-28	1922
18	-38	1950	-38	1941	-17	1944	10	1928	19	1929	31	1946	40	1951	39	1896	22	1929	14	1951	-23	1914	-34	1924
19	-35	1949	-38	1941	-10	1912	0	1928	20	1924	32	1961	37	1949	35	1950	22	1929	-1	1917	-20	1914	-41	1916
20	-40	1943	-38	1918	-19	1912	12	1928	21	1959	31	1940	30	1898	34	1950	24	1918	-2	1916	-15	1921	-42	1916
21	-40	1936	-33	1918	-17	1940	14	1936	28	1931	28	1917	35	1947	33	1920	25	1913	3	1916	-16	1921	-34	1916
22	-41	1936	-34	1914	-19	1940	9	1954	25	1958	36	1942	39	1949	33	1908	20	1947	-5	1936	-18	1938	-35	1916
23	-40	1948	-43	1914	-24	1940	10	1927	22	1929	37	1961	40	1953	31	1928	26	1939	-2	1917	-19	1951	-29	1951
24	-43	1936	-34	1950	-20	1960	14	1919	24	1949	31	1958	39	1913	32	1923	19	1951	5	1917	-19	1951	-30	1917
25	-39	1915	-35	1919	-18	1955	15	1907	24	1924	36	1926	37	1946	32	1934	17	1939	-5	1919	-20	1919	-34	1933
26	-40	1915	-40	1919	-15	1940	15	1931	25	1961	39	1907	42	1962	32	1914	15	1928	-2	1919	-23	1919	-36	1933
27	-48	1915	-35	1919	-14	1955	9	1909	23	1907	32	1911	41	1925	34	1919	19	1942	-3	1919	-18	1930	-33	1924
28	-43	1915	-40	1962	-10	1921	9	1958	20	1924	34	1923	39	1952	32	1917	17	1930	-7	1919	-21	1929	-38	1933
29	-38	1951	-38	1916	-8	1936	13	1960	24	1947	35	1943	38	1918	31	1909	19	1945	-3	1925	-31	1958	-38	1933
30	-44	1918			-8	1936	16	1905	21	1917	35	1960	37	1952	33	1909	21	1930	0	1917	-25	1919	-35	1917
31	-40	1918			-10	1936			26	1952			37	1920	30	1896			-5	1919			-34	1918

STATION HISTORY

A climatological substation was established June 1, 1896, in the town of Langdon. The instruments were moved in September, 1936, to the North Dakota Agricultural Experiment Station 1.3 miles east of the post office. The instruments are exposed on an open plot of ground over sod under standard regulations. Instrumentation includes maximum and minimum thermometers in a standard instrument shelter and a standard 8 inch rain gage for the entire period of record.

Observations at Langdon have been under the direction of:

A. J. Koehrustedt . . . . . June, 1896 to September, 1898
James Woolner . . . . . June, 1904 to October, 1913
R. J. Burke . . . . . January, 1914 to September, 1936
Victor Sturlaugson. . . . . September, 1936 to Present