U.S. DEPARTMENT OF COMMERCE, WEATHER BUREAU
IN COOPERATION WITH THE WISCONSIN CROP REPORTING SERVICE
CLIMATOGRAPHY OF THE UNITED STATES NO. 20-47

LATITUDE 44°07'N
LONGITUDE 89°32'W
ELEV. (GROUND) 1076 Feet

CLIMATOLOGICAL SUMMARY

MEANS AND EXTREMES FOR PERIOD--1930-1959

STATION:
HANCOCK, WISCONSIN

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)	30	30	30	30		30		30	30	30		30	30		30		30	30	30	30	30	
Jan.	25.7	5.7	15.7	59	1944	-43	1951	1530	0.97	1.06	1946	8.9	27.2	1935	11.0	1940	3	0	22	31	12	Jan.
Feb.	28.8	7.6	18.2	61	1930	-35	1951	1310	0.99	1.41	1959	7.1	24.3	1959	11.5	1959	3	0	17	28	9	Feb.
Mar.	38.6	18.5	28.6	79	1946	-22	1948	1130	1.50	1.43	1938	7.9	28.7	1959	12.0	1959	5	0	8	28	3	Mar.
Apr.	56.4	32.5	44.5	90	1952	3	1954	620	2.58	2.05	1938	2.0	11.5	1956	5.0	1957+	5	*	*	17	*	Apr.
May	69.7	44.3	57.0	105	1934	21	1947	230	3.68	2.30	1942	0.4	7.0	1947	6.0	1947	8	1	*	3	0	May
June	79.2	54.9	67.1	106	1933	29	1945	90	4.33	5.04	1940	0	0		0		7	3	0	*	0	June
July	84.4	59.4	71.9	112	1936	38	1930	20	3.19	2.54	1934	0	0		0		6	7	0	0	0	July
Aug.	82.3	57.0	69.7	105	1947	33	1958+	40	3.06	3.95	1940	0	0		0		6	6	0	0	0	Aug.
Sept.	73.0	48.4	60.7	99	1933	21	1949+	180	3.46	3.78	1941	T	1.0	1942	1.0	1942	6	2	0	2	0	Sept.
Oct.	61.2	38.0	49.6	87	1946+	9	1952	480	2.30	3.34	1959	0.3	2.5	1955	2.0	1959+	4	0	*	9	0	Oct.
Nov.	42.3	24.0	33.2	78	1933	-19	1950	950	2.18	2.25	1934	4.7	16.4	1959	9.6	1945	5	0	7	23	1	Nov.
Dec.	29.4	11.8	20.6	60	1946	-27	1932	1380	1.03	0.95	1959	6.8	16.8	1950	8.0	1934	4	0	19	30	7	Dec.
Year	55.9	33.5	44.7	112	July 1936	-43	Jan. 1951	8010	29.27	5.04	June 1940	38.1	28.7	March 1959	12.0	March 1959	62	19	73	171	32	Year

(a) Average length of record, years.

T Trace, an amount too small to measure.

** Base 65°F. H. C. S. Thom, Monthly Weather Review, January 1954

+ Also on earlier dates, months, or years.

* Less than one half.

CLIMATE OF HANCOCK, WISCONSIN

Hancock is located in Waushara County in central Wisconsin. The area has slightly rolling agricultural land with soils that are quite sandy. The native vegetation of the county was jack pine and scrub oak; marshes were covered with tamarack, cedar, and spruce. Data in this summary are representative of the area.

Hancock has a continental climate that is characterized by long cold snowy winters, warm summers, and springs and falls that are often short and a composite of winter and summer. A variety of weather can be expected year round. During the last 30 years, the number of days in a year with 0 degrees or below has varied from 8 in 1931 to 53 in 1950. The number of days with 90 degrees or above has varied from 1 in 1951 to 35 in 1933. The year 1936 is remembered for its long cold winter and hot summer. From January 16 to February 22, 1936, there were 38 consecutive days with minimum temperatures ranging from 0 degrees to -33 degrees. The period July 6 to 18, 1936 had 13 consecutive days with maximum temperatures from 92 degrees to 112 degrees.

Approximately 60 per cent of the average annual amount of precipitation falls in the 5-month period of June through September. Summer rains fall mostly in showers and tend to be erratic and variable. The likelihood of 1 inch or more of rain falling in a 7-day period is greater during the first, second, and fourth weeks of June than any other time of the summer; the chance is 2 in 5 years. The likelihood of a dry 7-day period, trace or less, is greater at the end of August than any other time of the summer; the chance is 1 in 4 years. Intensities of about 1.25 inches in 1 hour, 1.95 inches in 6 hours, and 2.75 inches in 24 hours can be expected about once in 2 years. The greatest amount of rain to fall in 24 hours was the 5.04 inches that fell June 22, 1940. Snowfall has varied from 13 inches in 1958 to 93 inches in 1959.

Thunderstorms have occurred on an average of 32 days a year; days with occurrences in a year have varied from 22 to 51. Hail has fallen on an average of 2 days a year with extreme years of 0 and 7 days.

Wind, sunshine, and relative humidity records are not available but the following data from Wausau and Madison should approximate conditions at Hancock.

Prevailing winds are from the west and northwest in the winter, and from southerly directions in summer. March, April, and November are the windiest months with averages of about 12 miles an hour while July and August are the least windy with averages of about 9 miles per hour. Wind speeds in excess of 50 miles per hour can be expected in half the years and are usually from a westerly direction. The wind has averaged less than 4 miles per hour about 10 per cent of the time, from 4 to 12 miles per hour about 50 per cent, 13 to 31 miles per hour about 40 per cent, and greater than 31 miles per hour less than 1 per cent.

The percentage of possible sunshine ranges from an average of about 4 per cent for November and December to more than 40 per cent for May through October. The remaining months average between 50 and 60 per cent.

The approximate percentage of the time relative humidity has averaged:

Threshold	Winter	Spring	Summer	Fall
Less than 50%	5%	20%	15%	20%
50% to 79%	55%	50%	45%	50%
Greater than 79%	40%	30%	40%	30%

The average date of the last 32-degree freeze in the spring is May 17, and the first in the fall is September 30. The growing season--defined as the number of days between the last 32-degree freeze in the spring and the first in the fall--averages 135 days.

The following table gives the likelihood of critical temperatures occurring.

Temperature	20%	40%	60%	80%
AFTER DATE IN SPRING				
32° or below	May 27	May 20	May 14	May 7
28° or below	May 16	May 9	May 3	Apr. 26
24° or below	May 6	Apr. 29	Apr. 22	Apr. 15
20° or below	Apr. 26	Apr. 18	Apr. 11	Apr. 3
16° or below	Apr. 13	Apr. 6	Mar. 31	Mar. 23
BEFORE DATE IN FALL				
32° or below	Sept. 19	Sept. 26	Oct. 3	Oct. 10
28° or below	Sept. 26	Oct. 4	Oct. 10	Oct. 18
24° or below	Oct. 9	Oct. 16	Oct. 23	Oct. 31
20° or below	Oct. 20	Oct. 28	Nov. 3	Nov. 10
16° or below	Oct. 26	Nov. 3	Nov. 9	Nov. 17

Marvin W. Burley
Weather Bureau State Climatologist
Weather Bureau Office
Madison, Wisconsin

HANCOCK, WISCONSIN

Average Temperature (°F)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1930	8.2	24.2	28.6	45.2	56.6	66.5	72.4	70.3	61.4	47.1	37.6	20.6	44.9
1931	22.6	28.3	29.2	46.6	53.8	70.8	75.7	68.7	65.8	51.7	40.7	29.8	48.6
1932	22.6	21.1	21.7	43.6	57.4	70.2	73.4	69.8	59.8	46.5	30.0	19.6	44.6
1933	26.4	15.0	29.0	42.4	57.0	77.0	73.8	67.6	65.2	46.2	30.1	19.2	45.7
1934	23.6	15.4	27.4	44.0	65.2	71.5	73.2	66.6	58.4	51.2	37.3	14.8	45.7
1935	11.4	20.1	31.4	41.2	50.8	62.4	75.2	68.0	59.0	48.2	30.1	17.8	43.0
1936	7.2	2.0	29.5	37.9	62.8	64.6	77.0	72.2	63.3	45.0	31.0	24.4	43.1
1937	12.4	15.8	25.0	41.0	57.2	66.2	74.2	73.1	60.6	44.0	29.2	17.2	43.0
1938	14.8	23.9	37.4	46.1	56.0	65.6	71.0	71.5	60.4	54.2	34.6	21.0	46.4
1939	22.6	15.2	29.6	42.0	61.9	67.2	73.7	70.2	64.2	48.8	36.2	28.6	46.7
1940	8.6	22.0	24.0	42.0	54.1	66.0	73.2	67.2	61.9	51.0	31.0	22.0	43.6
1941	18.5	16.2	24.6	51.9	62.0	67.8	73.4	71.0	63.0	50.2	37.0	27.8	47.0
1942	16.2	17.4	33.2	51.2	54.0	65.3	69.9	68.9	57.3	49.4	33.0	15.2	44.2
1943	11.4	18.4	22.9	42.8	55.6	69.4	72.4	71.0	57.0	48.1	29.7	23.0	43.5
1944	25.1	21.4	25.8	41.2	62.4	68.8	70.9	71.3	61.6	49.4	39.4	17.0	46.2
1945	11.4	18.4	41.0	45.2	52.2	61.7	69.4	69.5	59.8	47.4	32.8	13.6	43.5
1946	18.6	18.1	40.0	48.6	55.4	69.6	71.5	67.6	59.9	53.6	36.0	24.4	46.6
1947	21.3	14.8	28.5	41.9	51.2	63.2	70.2	76.4	62.7	59.2	28.0	20.2	44.8
1948	9.5	16.1	27.9	49.8	55.5	66.0	72.6	71.7	66.1	48.4	37.9	20.2	45.2
1949	17.4	17.3	29.9	45.4	59.7	70.7	73.4	70.1	56.3	53.4	34.7	22.4	45.9
1950	15.7	16.5	23.8	37.1	56.2	65.6	67.0	64.4	59.6	54.1	28.6	11.3	41.7
1951	10.3	16.6	24.4	42.2	60.4	62.5	68.4	65.2	56.2	48.1	24.0	17.8	41.3
1952	15.5	21.4	24.5	47.1	55.2	67.2	70.8	66.0	60.3	42.6	36.1	23.2	44.2
1953	20.2	18.2	30.3	40.8	56.8	69.0	70.5	69.9	61.2	55.2	38.6	23.5	46.2
1954	13.5	28.7	28.2	47.5	51.0	69.5	71.0	67.7	59.8	48.0	36.8	22.4	45.3
1955	16.1	18.7	27.7	52.7	61.1	65.1	75.5	73.1	61.2	49.7	27.3	13.5	45.1
1956	14.2	16.1	23.3	40.4	55.3	69.3	66.4	68.0	57.1	54.6	33.3	22.0	43.3
1957	8.9	21.7	31.1	46.0	54.9	66.4	72.2	68.6	58.4	46.5	33.7	24.5	44.4
1958	19.0	14.2	31.2	45.6	57.2	62.7	68.4	70.1	61.1	51.9	35.8	12.8	44.2
1959	7.8	13.3	25.9	44.9	62.0	67.6	69.8	73.7	62.2	44.7	24.2	28.5	43.7

Total Precipitation (Inches)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1930	0.67	1.46	2.31	2.52	3.14	4.64	4.33	0.89	1.01	2.32	0.82	0.16	24.27
1931	0.61	0.89	1.37	0.80	1.74	3.55	1.07	3.07	6.50	3.90	3.99	0.83	28.32
1932	1.82	1.50	0.66	0.37	3.31	4.30	2.73	2.38	1.89	1.31	2.30	1.46	24.03
1933	1.06	0.60	1.80	3.09	5.65	1.11	3.72	1.86	4.08	2.89	0.28	0.78	26.92
1934	0.34	0.08	1.16	2.47	1.27	5.36	5.23	2.65	6.10	2.57	6.39	1.25	34.87
1935	1.40	0.64	0.79	3.25	3.94	5.08	4.12	3.13	2.32	1.60	2.10	0.77	29.14
1936	0.97	0.69	1.10	0.69	2.26	4.51	1.12	4.78	2.35	2.33	0.77	1.21	22.78
1937	2.04	1.63	0.21	3.85	3.61	3.47	2.54	3.16	2.28	4.70	1.56	0.45	29.50
1938	1.17	2.41	3.13	3.59	4.35	6.00	3.06	3.43	11.11	1.05	1.59	1.52	42.41
1939	1.53	1.43	0.77	1.76	2.10	5.41	1.71	3.06	4.23	2.22	0.66	0.72	25.60
1940	0.98	0.32	0.53	2.33	3.61	14.26	1.52	10.57	1.21	2.54	3.14	1.51	42.52
1941	0.95	0.38	0.90	2.44	6.67	2.13	1.84	0.97	7.58	4.94	1.41	1.47	31.68
1942	0.30	0.24	0.96	1.21	7.09	4.51	6.53	2.33	4.64	0.82	1.50	1.71	31.84
1943	1.39	0.41	1.91	1.24	6.33	3.81	2.46	4.44	1.80	3.35	1.82	T	28.96
1944	0.80	1.26	1.45	2.27	2.94	4.93	2.31	4.25	1.90	0.59	2.88	0.60	26.18
1945	0.39	1.86	1.67	3.75	4.10	4.00	1.81	2.64	3.67	0.53	6.36	1.24	32.02
1946	1.67	0.33	1.84	1.50	4.21	6.97	0.58	1.77	5.84	2.31	2.76	1.31	31.09
1947	0.85	0.30	1.92	4.09	4.92	5.28	3.16	2.44	4.13	2.29	1.66	0.90	31.94
1948	0.13	1.62	2.14	2.22	2.46	2.79	1.52	0.48	1.67	1.31	3.11	1.31	20.76
1949	1.27	0.39	2.00	1.86	1.42	4.97	5.77	2.57	1.89	1.06	1.54	0.89	25.63
1950	1.98	0.94	1.74	3.14	2.60	3.60	6.23	2.62	1.58	0.95	1.44	1.91	28.33
1951	1.01	1.44	3.33	5.18	2.07	4.97	4.17	3.12	2.38	4.48	1.86	0.73	34.74
1952	1.85	0.42	2.10	1.25	4.05	3.60	3.42	3.14	0.81	0.18	1.83	1.17	23.82
1953	0.90	2.94	2.10	4.52	2.46	2.91	2.82	2.68	1.49	0.31	1.30	1.61	25.94
1954	0.61	0.68	0.90	5.67	3.35	4.31	4.16	2.99	8.06	4.80	1.00	0.57	37.10
1955	0.41	1.14	1.26	2.75	3.32	4.08	4.32	1.11	0.83	4.25	1.48	0.69	25.64
1956	0.35	0.65	1.64	2.37	4.89	2.66	3.47	5.58	1.79	1.04	3.75	0.78	28.97
1957	0.37	0.31	0.95	2.63	4.50	3.26	3.36	1.89	3.10	0.95	3.34	0.96	25.62
1958	0.35	0.11	0.30	3.08	1.33	1.42	3.76	1.69	3.23	1.12	1.24	0.14	17.77
1959	0.86	2.51	1.98	1.61	6.61	1.99	2.98	6.16	4.28	6.47	1.98	2.11	39.54

STATION HISTORY

A climatological station operated in Hancock from October 7, 1902 until April 30, 1920. The thermometers were located in a standard shelter over sod while the rain gauge was located on a roof 16 feet above the ground. Mr. F. B. Hamilton was the observer for the entire period.

The station was reopened 1.2 miles south-southwest of the post office on the University Experimental Farm on August 1, 1921.

Trees grew and sheltered the instruments so that a good exposure became an unsatisfactory one. The amount of precipitation recorded was affected more by the shading of the trees than were the temperatures. The instruments were moved 275 feet north September 1, 1956, to improve their exposure.