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

LATITUDE 43°47'N
LONGITUDE 88°27'W
ELEV. (GROUND) 760 Feet

CLIMATOLOGICAL SUMMARY

MEANS AND EXTREMES FOR PERIOD --1930-1959

STATION:
FOND DU LAC, 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.	28.5	10.7	19.6	57	1939	-41	1951	1410	1.36	1.25	1938	10.8	28.0	1938	10.0	1942	4	0	18	30	7	Jan.
Feb.	31.3	12.6	22.0	65	1930	-30	1959+	1200	1.30	1.37	1953	8.3	23.1	1959	10.0	1959+	4	0	15	27	6	Feb.
Mar.	40.9	22.4	31.7	86	1932	-14	1943	1030	1.81	1.90	1931	9.8	25.0	1959	12.5	1943	5	0	6	26	1	Mar.
Apr.	57.4	34.8	46.1	88	1930	9	1954	570	2.43	1.80	1955	0.9	9.0	1930	9.0	1930	6	0	*	13	0	Apr.
May	70.5	45.5	58.0	105	1934	22	1947	250	3.05	3.26	1945	0.3	4.5	1935	4.5	1935	7	1	0	2	0	May
June	79.8	55.8	67.8	104	1934+	29	1945	70	3.86	3.43	1933	0	0		0		7	4	0	*	0	June
July	84.9	60.0	72.5	110	1936	40	1948	20	3.34	3.67	1952	0	0		0		6	7	0	0	0	July
Aug.	83.0	58.6	70.8	103	1937	37	1946	20	3.30	2.93	1933	0	0		0		6	6	0	0	0	Aug.
Sept.	74.3	50.5	62.4	101	1939+	23	1949	140	3.08	2.23	1941	T	T	1942	T	1942	6	2	0	1	0	Sept.
Oct.	62.7	40.3	51.5	88	1946	15	1952	420	2.04	2.70	1940	0.1	2.5	1952	2.5	1952	5	0	0	7	0	Oct.
Nov.	44.8	27.6	36.2	81	1933	-10	1950	860	2.10	1.68	1934	3.2	19.0	1940	8.0	1940	5	0	5	21	1	Nov.
Dec.	31.9	16.1	24.0	62	1946	-23	1951	1270	1.35	1.60	1946	7.1	13.8	1954	6.0	1959+	4	0	15	29	5	Dec.
Year	57.5	36.2	46.9	110	July 1936	-41	Jan. 1951	7260	29.02	3.67	July 1952	40.5	28.0	Jan. 1938	12.5	March 1943	65	20	59	156	20	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 FOND DU LAC, WISCONSIN

Fond du Lac, county seat of Fond du Lac County, is located at the south end of Lake Winnebago in east-central Wisconsin. The surrounding area consists of flat farmlands with soils that are predominantly pink loams. The native vegetation was a forest of oak and basswood. This summary is representative of Fond du Lac and the general area.

The climate is classified continental. Winters are relatively cold and long, summers are warm, springs and falls are often short and mixtures of both summer and winter. All seasons are marked by storms that accompany changes from one type of air mass to another. Lake Winnebago modifies temperatures somewhat during the time of the year it is not frozen. The lake usually starts to freeze after mid-November and is safe to walk on by Christmas; the ice often forms to a thickness of 2 or 3 feet. Break-up occurs during early April and the ice is usually out by mid-April.

The seasons vary widely from year to year. During the period of this summary, the number of days in a year with temperatures 90 degrees or higher has varied from 51 in 1934 to 3 in 1951. The number of days in a year with 0 degrees or below has varied from 39 in 1950 to 3 in 1931.

Approximately 55 per cent of the average annual amount of precipitation falls during the 5-month period May through September. The likelihood of 1 inch of rain in a 7-day period is greater the first week of June and less the last week of August than any other times of the summer; the respective chances are 4 in 10 years and 2 in 10 years. The likelihood of no rain, trace or less, in a 7-day period is greater the last week of August than any other time of the summer; the chance is more than 2 in 10 years. Intensities of about 1.25 inches in 1 hour, 1.90 inches in 6 hours, and 2.70 inches in 24 hours can be expected about once in two years. The greatest amount of rain in 24 hours was the 5.30 inches that fell August 4, 1924. Snowfall often varies greatly from year to year. In 1958 only 18 inches of snow fell while in 1959, 84 inches fell.

Thunderstorms have averaged occurrences on 33 days a year with extreme years of 20 and 45 days. Hail has an average occurrence of 2 days a year with extremes of 0 and 5 days.

Wind, sunshine, and relative humidity records are not available, but the following data from Appleton and Madison approximate conditions at Fond du Lac.

Prevailing winds in the winter are from the northwest and in the summer from the southwest. January winds have averaged northwest 24 per cent, west 17 per cent, and southwest 22 per cent of the time. July winds have averaged northwest 16 per cent, west 9 per cent, and southwest 29 per cent. The average annual wind speed is 12 miles per hour. April and November are the windiest months with averages of 13 miles per hour; August is least windy with an average of 10 miles per hour. The strongest winds are usually from the southwest, south, or west.

Maximum winter relative humidity has averaged in the low 80's while winter minimums have averaged in the mid-70's; comparative summer averages are the mid-80's and low 60's.

Possible sunshine has averaged about 40 per cent for November and December, 60 per cent or more for May through October, and 50 to 60 per cent for the remaining months.

The average date of the last 32-degree freeze in the spring is May 11, and the first in the fall is October 9. 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 151 days. The following table gives the likelihood of critical temperatures occurring.

Temperature	20%	40%	60%	80%
AFTER DATE IN SPRING				
32° or below	May 20	May 14	May 8	May 1
28° or below	May 5	Apr. 28	Apr. 22	Apr. 15
24° or below	Apr. 20	Apr. 13	Apr. 6	Mar. 30
20° or below	Apr. 11	Apr. 3	Mar. 28	Mar. 20
16° or below	Apr. 3	Mar. 26	Mar. 20	Mar. 12
BEFORE DATE IN FALL				
32° or below	Sept. 29	Oct. 6	Oct. 12	Oct. 19
28° or below	Oct. 7	Oct. 15	Oct. 21	Oct. 29
24° or below	Oct. 20	Oct. 27	Nov. 3	Nov. 11
20° or below	Oct. 30	Nov. 6	Nov. 13	Nov. 20
16° or below	Nov. 9	Nov. 17	Nov. 23	Dec. 1

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

FOND DU LAC, WISCONSIN

Average Temperature (°F)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1930	13.6	29.2	33.0	48.6	60.4	69.8	75.2	73.7	65.4	49.9	40.7	25.1	48.7
1931	27.5	31.4	33.6	49.2	57.3	72.8	77.4	72.7	70.0	55.8	45.2	33.4	52.2
1932	28.0	27.0	26.4	45.8	60.1	72.3	75.4	73.6	63.7	49.2	34.0	23.9	48.3
1933	31.1	20.7	32.0	46.0	60.6	75.4	74.8	71.1	68.4	49.6	33.7	23.8	48.9
1934	27.6	18.6	30.3	45.5	66.2	74.6	76.4	70.3	63.0	54.4	42.0	22.0	49.2
1935	17.8	24.6	36.3	45.3	53.8	64.1	78.1	71.6	63.4	51.0	35.2	22.0	46.9
1936	10.8	8.6	35.3	41.8	64.6	66.6	78.1	74.3	65.6	48.4	33.8	28.5	46.4
1937	19.5	21.4	30.3	44.6	59.4	67.7	75.5	77.2	64.0	47.8	34.7	21.2	46.9
1938	18.6	26.8	40.8	48.6	58.4	67.1	73.4	73.9	62.2	56.7	39.5	24.4	49.2
1939	25.8	19.4	33.2	44.0	63.0	69.9	75.5	72.1	67.7	52.0	38.6	31.5	49.4
1940	12.5	24.2	27.3	43.6	56.0	67.8	74.2	69.4	63.6	53.1	33.4	25.0	45.8
1941	23.4	20.0	27.8	53.2	62.6	67.7	73.4	70.6	63.0	52.2	39.6	30.4	48.7
1942	18.2	20.9	35.3	51.3	53.3	66.2	70.8	67.7	58.9	50.6	36.2	18.0	45.6
1943	15.6	20.7	27.3	43.9	55.6	70.0	71.9	70.3	57.1	49.3	32.2	24.2	44.8
1944	26.4	23.6	28.4	42.4	61.4	69.2	69.3	70.6	62.1	49.2	40.6	18.4	46.8
1945	15.0	21.8	43.6	47.0	53.0	60.8	67.6	68.1	59.9	47.5	36.2	16.8	44.8
1946	21.2	21.8	41.2	48.7	54.6	64.6	69.8	66.0	60.2	54.4	37.3	26.1	47.2
1947	23.0	17.7	29.8	44.6	51.8	62.6	69.1	77.0	63.8	60.2	30.1	23.0	46.1
1948	13.4	19.6	30.5	50.8	54.8	66.0	72.6	71.6	65.5	48.6	39.9	23.4	46.4
1949	20.4	20.4	32.0	45.5	59.0	69.9	73.8	71.7	57.3	54.2	36.4	24.8	47.1
1950	20.7	20.4	26.9	38.8	56.4	68.9	68.3	64.8	60.6	54.8	31.0	14.8	43.9
1951	13.7	19.3	28.8	43.9	60.2	63.7	69.4	66.7	58.7	51.3	28.0	20.6	43.7
1952	19.7	25.8	28.4	48.6	57.3	69.3	73.3	68.8	61.6	44.6	38.5	27.6	47.0
1953	23.3	24.1	33.7	42.4	57.4	68.7	71.7	70.4	62.2	55.2	40.8	26.6	48.0
1954	18.8	30.7	31.2	49.3	52.4	69.0	70.2	66.7	60.9	49.0	37.1	22.8	46.5
1955	17.5	20.2	29.4	51.5	59.0	64.7	74.8	72.2	60.5	51.4	31.6	19.3	46.0
1956	20.4	21.8	27.4	43.2	55.6	68.5	66.6	66.9	57.5	55.9	36.3	26.4	45.5
1957	12.5	26.4	33.2	47.5	55.9	66.9	71.6	69.0	60.0	48.4	35.8	27.9	46.3
1958	21.0	16.0	32.6	46.9	57.9	61.9	68.9	70.4	62.3	53.7	38.3	16.9	45.6
1959	11.0	15.5	28.1	46.0	62.8	67.9	69.9	74.3	63.8	46.9	28.3	31.0	45.5

Total Precipitation (Inches)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1930	2.30	2.31	3.01	2.86	2.62	3.75	3.59	0.90	1.19	1.12	0.66	0.79	25.10
1931	1.18	0.73	2.92	2.00	1.75	5.59	1.31	1.74	7.18	3.30	4.65	1.66	34.01
1932	1.36	1.97	1.34	0.92	2.19	3.32	2.58	1.25	0.37	2.94	0.99	2.00	21.23
1933	1.03	1.24	3.28	3.29	5.30	5.69	6.41	3.36	3.02	1.67	1.05	2.09	37.43
1934	0.42	0.74	2.12	1.73	1.15	5.65	2.72	2.23	4.30	1.83	6.64	0.91	30.44
1935	1.30	1.80	1.75	2.99	2.19	3.44	0.77	3.53	1.48	1.83	2.30	1.39	24.77
1936	1.61	1.77	1.09	1.03	1.66	2.48	0.54	4.31	6.07	3.59	0.93	1.94	27.02
1937	2.56	1.68	1.05	3.42	3.18	2.69	2.22	3.52	2.63	2.46	1.30	0.86	27.57
1938	3.37	3.19	2.31	1.65	2.82	5.40	3.59	4.08	7.76	0.60	2.04	1.52	38.33
1939	2.48	1.79	1.25	2.64	1.24	4.48	0.50	2.26	3.54	3.10	0.27	0.28	23.83
1940	1.36	0.98	1.12	2.83	3.13	8.46	1.54	9.00	1.39	1.58	3.22	1.06	35.67
1941	1.77	1.19	1.14	2.07	2.55	1.93	2.47	1.86	6.08	3.65	1.60	1.83	28.14
1942	1.33	0.28	1.92	1.77	6.13	4.32	3.90	5.15	4.30	1.22	2.24	1.96	34.52
1943	1.60	0.62	2.90	1.27	4.04	3.11	2.43	3.63	1.51	0.90	1.26	0.73	24.00
1944	1.04	1.84	1.45	1.49	1.63	4.84	3.60	3.86	3.85	0.39	3.06	0.77	27.82
1945	0.34	1.89	0.83	3.06	6.07	5.36	2.59	4.63	4.33	1.11	3.64	1.03	34.88
1946	1.84	0.46	2.71	0.66	3.18	5.29	0.74	2.44	1.10	1.20	2.22	2.21	24.05
1947	2.03	0.15	1.10	4.14	3.87	5.52	2.75	1.89	3.68	1.56	2.10	0.90	29.69
1948	0.33	1.96	1.53	2.37	2.30	1.83	1.91	1.87	2.51	0.59	4.33	1.87	23.40
1949	1.24	1.22	2.36	1.66	1.84	2.36	3.58	3.14	1.42	1.64	0.90	1.18	22.54
1950	2.36	0.71	1.99	3.25	2.82	2.70	9.10	4.88	1.98	1.03	1.37	1.43	33.62
1951	1.89	2.23	2.64	5.40	1.44	3.67	3.55	2.86	2.85	5.25	1.10	1.44	34.32
1952	1.65	0.61	2.36	1.60	2.98	2.49	11.17	3.91	0.79	0.43	2.51	1.46	31.96
1953	0.91	2.67	2.23	2.98	2.88	4.07	1.10	4.65	2.00	0.37	0.49	1.87	26.18
1954	0.66	0.86	1.25	3.82	1.87	4.06	3.76	2.67	5.35	4.24	1.04	1.21	30.79
1955	0.33	1.10	1.34	3.25	2.33	3.35	6.42	0.79	1.18	3.18	0.33	0.79	24.39
1956	0.29	0.43	2.26	2.30	6.02	2.43	7.34	8.00	1.92	0.48	2.30	0.97	34.74
1957	0.34	0.49	0.68	2.09	5.29	3.32	2.40	1.89	1.89	1.47	3.67	1.48	25.01
1958	0.55	0.18	0.37	1.91	1.14	2.37	2.84	2.36	3.48	3.05	2.26	0.31	20.82
1959	1.20	2.00	2.11	2.54	5.89	1.89	2.77	2.37	3.21	5.27	2.59	2.41	34.25

STATION HISTORY

Climatological records for Fond du Lac began January 1, 1891. No description of the locations or exposures of the instruments are available until August, 1901. The station was located over sod at 475 Linden Street from August 1, 1901 until August 31, 1906. No record is available of the station's location from September, 1906 until May, 1907.

The following locations were all over sod at the residences of the observers: 75 Green Street from June 1, 1907 until February 29, 1912; 166 Fifth Street from March 1, 1912 until 1920; 181 Gillett Street from 1920 until 1927, 3 Marco Court from 1927 until February 28, 1942; and 419 Morris Street from May 1, 1942 until August 5, 1960. On August 5, 1960 the station was moved to the Sewage Treatment Plant and located over sod.

STATION HISTORY (Continued)

Short breaks in record occurred between the changes of some of the observers. The observers have been:

I. N. Mitchell..... January 1, 1891 to April 30, 1891.
J. C. Wedge..... May 1, 1891 to October 31, 1894.
B. H. Bettis..... November 1, 1894 to March 31, 1895.
J. C. Wedge..... April 1, 1895 to September 30, 1895.
Clarence Mark.....October 1, 1895 to June 30, 1896.
Salem D. Mann.....January 1, 1897 to May 31, 1901.
E. M. Jennison.....August 1, 1901 to August 31, 1906.
N. E. McIndoo..... September 24, 1906 to May 31, 1907.
George W. Marshall.....June 1, 1907 to February 29, 1912.
Edward A. Seeley..... March 1, 1912 to February 28, 1942.
Jesse R. Fink.....May 1, 1942 to August 5, 1960.
Employees of Sewage Treatment Plant since August 5, 1960.