

Although before 1901 there are no census records of farm values, we may roughly measure the difference between the total values of farm live stock in 1870 and in 1917 by applying average values per head to the census records of number in 1870. These average values for 1870 I have calculated from the customs returns of that year, which give the total numbers and total values of horses, cattle, sheep and swine exported. They work out to \$83 for horses, \$23 for cattle, \$2.32 for sheep and \$3.50 for swine; and the total value of the farm live stock of Canada in 1870 may therefore be placed at not more than \$142,000,000, as compared with the value of 1917 exceeding one billion dollars.

DAIRYING.

The establishment in Canada of the dairying industry upon a factory basis has been one of the most significant agricultural developments since Confederation. The production of grain on the Prairie Provinces, which began to assume importance with the opening of the Canadian Pacific Railway in 1886, and the effect of the McKinley Tariff of 1890, rendered grain-growing in eastern Canada unprofitable; and the farming situation was only saved by the increased production of dairy products, for which a market was gradually built up with the United Kingdom. The first cheese factory on the western side of the Atlantic was started in Herkimer County, New York State.¹ Five cheese factories started in Ontario between the years 1855 and 1860, and between 1861 and 1870, 83 dairy factories were started in Canada, of which one factory made butter only, 57 factories made cheese only and 25 factories made both butter and cheese.²

The introduction into Canada from Denmark in 1882 of the centrifugal cream separator marked an important epoch in Canadian dairying, and the industry has continued to expand from that date. As shown in Table 23, statistics of home-made butter have been collected by the decennial census since 1870, also of home-made cheese, excepting in 1900.

23.—Production of Home-Made Butter and Cheese in the Census Years 1870, 1880, 1890, 1900 and 1910.

Description.	1870.	1880.	1890.	1900.	1910.
	lb.	lb.	lb.	lb.	lb.
Butter.....	74,190,584	102,545,169	111,577,210	105,343,076	138,098,534
Cheese.....	4,984,843	3,184,996	6,267,203	-	1,363,261

Values were not collected until 1910, when the value of home-made butter was \$30,280,608 and of home-made cheese \$153,036.

¹The Dairying Industry in Canada, p. 23. By J. A. Ruddick, Dairy and Cold Storage Commissioner, Ottawa, 1911.

²Report on the Census of 1901, Vol. II (Natural Products), p. xlviii, Ottawa, 1901.