

Published by Authority of the Hon. James A. MacKinnon, M.P.,

Minister of Trade and Commerce

DOMINION BUREAU OF STATISTICS, OTTAWA, CANADA

Fisheries and Animal Products Branch

Dominion Statistician: R. H. Coats, LL.D., F.R.S.C., F.S.S. (Hon.)

Chief, Fisheries and Animal Products Branch: F. A. Brown

PRODUCTION OF DAIRY FACTORIES, CANADA, 1940

The annual statistics of dairy factories are issued by the Dominion Bureau of Statistics in co-operation with the provincial departments of agriculture. The present statement deals with production only. The complete report, to be issued at a later date, will include statistics, by provinces and counties or districts, of production, deliveries of milk and cream, amounts paid to patrons, capital, employees, salaries and wages, and other data.

Creamery Butter. - The production of creamery butter in Canada in the year 1940 totalled 264,723,669 pounds, valued at \$64,908,981, a decrease in quantity from the preceding year of 2,868,877 pounds, or one per cent, but an increase in value of \$3,160,582, or five per cent. The average price per pound rose to 24.52 cents from 23.07 cents in 1939. Ontario and Quebec, which together produced 61 per cent of the Canadian output, show smaller quantities than in the preceding year, as does also New Brunswick, but increases are recorded for all other provinces. The relation which the production of each province bears to the whole is shown by percentage as follows: Ontario, 33.0; Quebec, 28.0; Alberta, 11.3; Saskatchewan, 10.7; Manitoba, 10.3; British Columbia, 2.3; Nova Scotia, 2.2; New Brunswick, 1.5; and Prince Edward Island, 0.7.

Factory Cheese. - The large export demand for Canadian cheese in 1940 raised the production to 144,685,356 pounds, an increase over the preceding year of 19,209,997 pounds, or 15 per cent. The increase of over a cent a pound in the average price, together with the greater production, brought the total value to \$19,739,284, an increase over 1939 of \$4,427,502, or 29 per cent. Ontario and Quebec are the chief producers of factory cheese, the product of the former province in 1940 representing 69.1 per cent of the total for Canada, and that of the latter, 24.2 per cent. The Prairie provinces and British Columbia, together, produced 5.8 per cent of the whole, and Prince Edward Island and New Brunswick, 0.9 per cent. No factory cheese is manufactured in Nova Scotia.

Concentrated Milk. - The value of all items of concentrated whole milk and by-products manufactured during the year was \$14,483,548, an increase over the year 1939 of \$2,907,577, or 25 per cent. The combined weight of the various items was 193,126,174 pounds, an increase of 27,083,708 pounds, or 16 per cent. Average prices were higher than in 1939 for condensed whole milk and skim milk powder, and lower for evaporated whole milk.

Miscellaneous Dairy Factory Products. - The main items under this classification are ice cream and ice cream mix, chocolate milk, and milk and cream sold as such. The aggregate value of all items was \$52,377,723, an increase over 1939 of \$5,201,085, or 11 per cent.

Total Value of Output of the Dairy Factories. - The combined value of all products of the factories in 1940 was \$151,509,541, compared with \$135,812,795 in 1939. The total value in 1940 is apportioned by percentage, among the various items, as follows: creamery butter, 42.8 per cent; factory cheese, 13.0 per cent; concentrated milk, 9.6 per cent; and miscellaneous factory products, 34.6 per cent.

Number of Dairy Factories. - The number of dairy factories in operation during the year was 2,509, classified by kind of factory as follows: creameries, 1,256; cheese factories, 985; combined butter and cheese factories, 243; and concentrated milk factories, 25. Compared with the preceding year, the total number of factories shows a decrease of 42.

FOREIGN TRADE

Exports. - The value of Canadian dairy products exported in 1940 was \$20,404,055, of which the cheese exports accounted for \$15,723,486, or 77.0 per cent, the evaporated milk for \$2,556,422, or 12.5 per cent, and all other items, combined, \$2,124,147, or 10.5 per cent. The aggregate value of exports records an increase over 1939 of \$2,182,347, or 12 per cent.

Imports. - The imports of dairy products are of comparatively minor importance. The total value in 1940 was \$454,972, of which cheese and casein, together, account for \$447,961, or 98 per cent.

70

[The following text is extremely faint and illegible due to significant fading and bleed-through from the reverse side of the page. It appears to be a multi-paragraph document.]

1. - Production of Creamery Butter in Canada, by Provinces, 1939 and 1940.

Province		Quantity	Value	Average Price
		Lb.	\$	per pound ¢
Prince Edward Island	- 1939	1,937,272	459,534	23.72
	- 1940	1,984,487	495,065	24.95
Nova Scotia	- 1939	5,681,607	1,487,902	26.19
	- 1940	5,870,210	1,657,507	28.24
New Brunswick	- 1939	3,987,318	954,682	23.94
	- 1940	3,923,752	989,379	25.22
Quebec	- 1939	80,235,791	18,815,509	23.45
	- 1940	74,084,973	18,153,333	24.50
Ontario	- 1939	88,010,276	21,121,703	24.00
	- 1940	87,278,149	22,438,366	25.71
Manitoba	- 1939	26,524,240	5,702,713	21.50
	- 1940	27,289,731	6,345,534	23.25
Saskatchewan	- 1939	25,400,005	5,333,053	21.00
	- 1940	28,306,811	6,515,257	23.02
Alberta	- 1939	29,749,958	6,281,521	21.11
	- 1940	29,796,520	6,650,636	22.32
British Columbia	- 1939	6,086,079	1,591,782	26.15
	- 1940	6,189,036	1,663,904	26.88
TOTAL FOR CANADA	- 1939	267,612,546	61,748,399	23.07
	- 1940	264,723,669	64,908,981	24.52

2. - Production of Factory Cheese in Canada, by Provinces, 1939 and 1940.

Province		Quantity	Value	Average Price
		Lb.	\$	per pound ¢
Prince Edward Island	- 1939	459,748	55,740	12.12
	- 1940	671,333	89,939	13.40
Nova Scotia	- 1939	-	-	-
	- 1940	-	-	-
New Brunswick	- 1939	557,388	66,147	11.87
	- 1940	627,843	86,124	13.72
Quebec	- 1939	27,526,828	3,257,348	11.83
	- 1940	34,988,760	4,754,093	13.59
Ontario	- 1939	89,968,073	11,090,497	12.33
	- 1940	100,004,359	13,632,258	13.63
Manitoba	- 1939	3,492,958	407,278	11.66
	- 1940	4,546,258	615,191	13.53
Saskatchewan	- 1939	345,902	42,526	12.29
	- 1940	390,448	53,937	13.81
Alberta	- 1939	2,196,157	263,508	12.00
	- 1940	2,705,853	385,584	14.25
British Columbia	- 1939	928,305	128,738	13.87
	- 1940	750,502	122,158	16.28
TOTAL FOR CANADA	- 1939	125,475,359	15,311,782	12.20
	- 1940	144,685,356	19,739,284	13.64

Note. - The statistics of production of the present report are based on audited returns furnished by the factory operators, and differ somewhat from the preliminary figures published in "Dairying Statistics of Canada".

Table 1. Summary of the results of the analysis of variance for the different factors.

Factor	df	MS	F	P
Block	1	1000	10.0	0.01
Replication	1	500	5.0	0.05
Treatment	3	200	2.0	0.10
Error	27	100		
Total	32			

Table 2. Mean values for the different factors.

Factor	Mean	SE
Block	1000	10
Replication	500	5
Treatment	200	2
Error	100	1
Total		

Standard error of the mean (SEM) is given in parentheses. The values are given in the same order as in the tables above.

3. Production of Concentrated Milk, Canada, 1939 and 1940.

Kind	1939		1940	
	Quantity	Value	Quantity	Value
	Lb.	\$	Lb.	\$
Concentrated Whole Milk Products:				
Condensed milk -				
Case goods	3,776,746	326,081	9,764,846	968,516
Bulk goods	3,794,336	323,187	4,663,964	410,643
Evaporated milk -				
Case goods	116,598,623	7,299,228	135,400,456	8,795,165
Bulk goods	286,496	11,016	477,090	22,303
Whole milk powder -				
Spray process	4,877,343	1,148,343	4,656,452	1,175,587
Roller process	1,706,180	220,336	1,793,308	352,436
Cream powder	6,596	3,241	14,236	6,978
TOTAL	131,046,320	9,331,432	156,770,352	11,729,623
Concentrated Milk By-Products:				
Condensed skim milk	3,240,891	160,522	4,245,167	233,180
Evaporated skim milk	964,824	21,135	1,048,738	29,248
Skim milk powder -				
Spray process	16,819,917	1,298,618	16,133,088	1,486,336
Roller process	8,519,011	463,127	10,258,641	656,865
Buttermilk powder	2,830,332	134,939	2,732,593	172,478
Condensed buttermilk	676,746	19,604	350,111	9,123
Sugar of milk	273,371	10,935	248,095	27,787
Casein	1,671,054	135,659	1,339,389	138,903
TOTAL	34,996,146	2,244,539	36,355,822	2,753,920

4. Miscellaneous Products of Dairy Factories, Canada, 1939 and 1940.

Kind	Unit of Measure	1939		1940	
		Quantity	Value	Quantity	Value
			\$		\$
Whey Butter	Lb.	1,806,013	380,250	2,005,937	431,685
Ice Cream (a)	Gal.	5,459,012	6,409,249	6,521,388	7,781,270
Milk sold	Gal.	70,470,071	27,221,319	74,664,740	29,451,863
Cream sold (Lb. of Butterfat)		19,591,251	9,717,460	21,266,656	10,701,660
Chocolate milk sold	Gal.	2,189,159	993,227	2,832,387	1,321,246
Ice cream mix	Gal.	1,094,401	983,433	1,039,517	1,012,256
Cottage & skim milk cheese	Lb.	1,651,969	132,444	1,857,467	147,227
Buttermilk sold	-	-	477,030	-	511,334
Skim milk sold	-	-	180,879	-	197,627
Whey cream (Lb. of Butterfat)		633,603	119,075	764,069	146,940
Sundry	-	-	562,277	-	674,620
TOTAL	-	-	47,176,643	-	52,377,728

Exports and Imports

(Compiled by the External Trade Branch)

5. Exports of Canadian Dairy Products, 1939 and 1940.

Kind	Unit of Measure	1939		1940	
		Quantity	Value	Quantity	Value
			\$		\$
Milk, fresh	Gal.	3,138	1,102	3,302	1,080
Cream, fresh	Gal.	1,590	3,182	176	412
Butter	Lb.	12,398,600	2,673,765	1,337,600	382,299
Cheese	"	90,944,800	12,248,650	106,631,100	15,723,486
Condensed milk	"	1,136,300	110,502	6,813,700	616,139
Evaporated milk	"	25,012,200	1,801,419	34,745,900	2,556,422
Whole milk powder	"	6,021,400	1,204,040	4,348,400	977,443
Skim milk powder	"	2,300,000	178,830	(b) 923,900	146,714
Casein	"	2,156	218	300	60
TOTAL MILK AND ITS PRODUCTS	-	-	18,221,708	-	20,404,055

6. Imports into Canada of Dairy Products for Consumption, 1939 and 1940.

Kind	Unit of Measure	1939		1940	
		Quantity	Value	Quantity	Value
			\$		\$
Milk and cream, fresh	Gal.	3,437	1,619	643	562
Butter	Lb.	5,644	1,656	4,001	1,712
Cheese	"	1,396,713	377,867	970,460	272,199
Condensed milk	"	17,666	1,825	3,601	549
Milk powder	"	199,234	16,269	16,964	4,188
Casein	"	919,254	55,607	2,094,707	175,762
TOTAL MILK AND ITS PRODUCTS	-	-	454,843	-	454,972

(a) Does not include ice cream made in the ice cream industry or in the confectionery industry. (b) Includes partial skim milk.



1010753422

Faint, illegible text and table structure, possibly a ledger or data record, covering the majority of the page.