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ANIMAL PRODUCTS STATISTICS BRANCH

REPORT
on the
PRODUCTION OF DAIRY FACTORIES
in
CANADA
1928



Published by Authority of the Hon. James Malcolm, M.P.,
Minister of Trade and Commerce

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OTTAWA

1929

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THE UNIVERSITY OF CHICAGO

DEPARTMENT OF CHEMISTRY

LABORATORY OF ORGANIC CHEMISTRY

REPORT OF RESEARCH WORK DURING THE YEAR 1958

BY ROBERT H. WOODRUFF

ADVISOR: ROBERT H. WOODRUFF

RESEARCH REPORT

Submitted in partial fulfillment of the requirements for the Ph.D. degree

by ROBERT H. WOODRUFF

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DOMINION BUREAU OF STATISTICS - OTTAWA

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PRELIMINARY REPORT ON THE PRODUCTION OF DAIRY

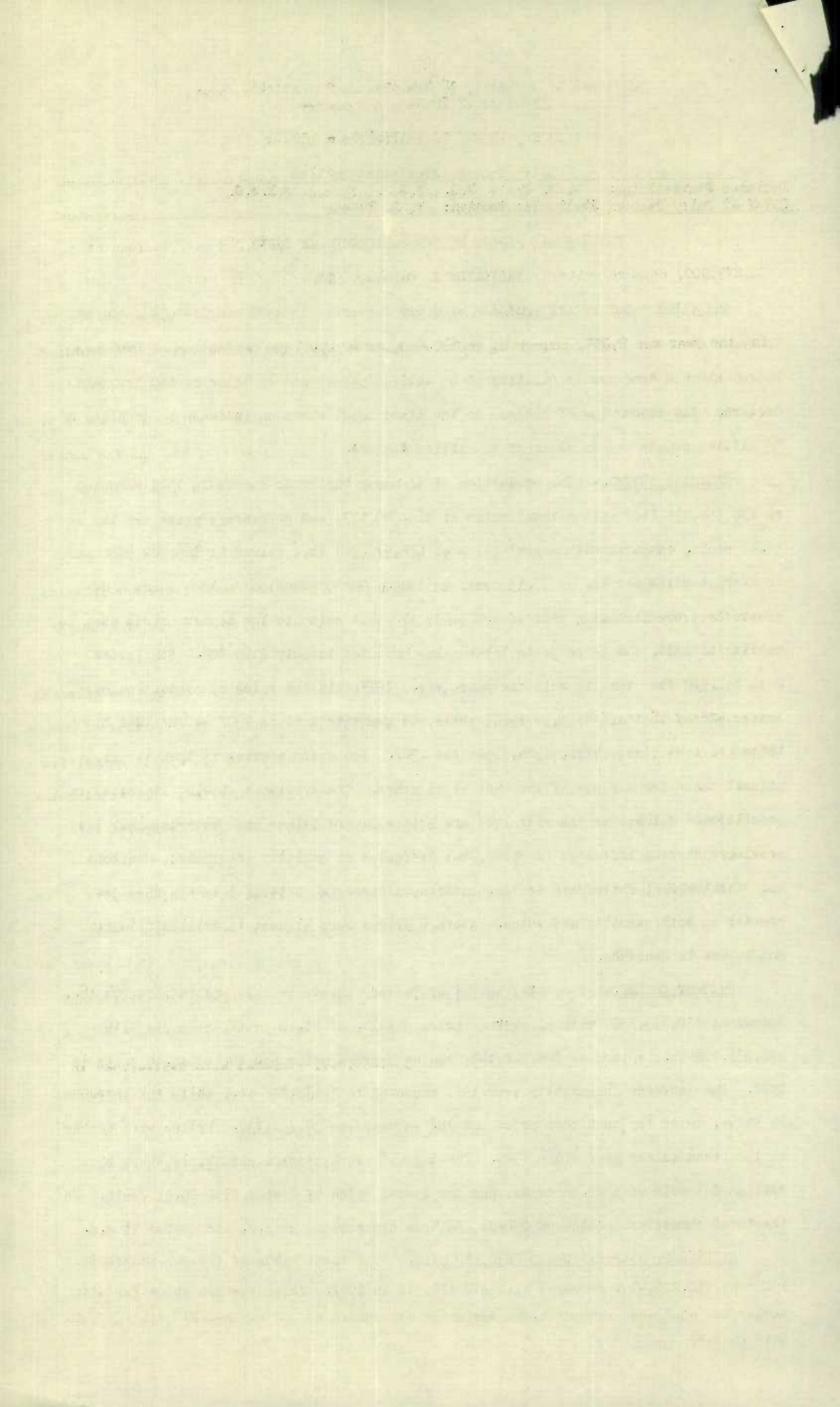
FACTORIES IN CANADA, 1928

The total value of all products of dairy factories in 1928 was \$144,543,740, an increase over the preceding year of \$8,632,810, or 6 p.c. The production of creamery butter shows a decrease in quantity of 6½ million pounds and in value of 160 thousand dollars. The production of cheese, on the other hand, shows an increase in quantity of 5½ million pounds and in value of 4½ million dollars.

CREAMERY BUTTER.- The production of creamery butter in Canada in 1928 amounted to 170,352,955 lb., with a total value of \$65,540,177, and an average price per lb. of 38.47 cents, compared with a production of 176,978,947 lb., valued at \$65,709,986, and an average price per lb. of 37.13 cents in 1927. The production of 1928 shows a decrease from the preceding year of 6,625,992 lb., but owing to the higher prices prevailing in 1928, the decrease in total value amounted to only \$169,809. Statistics back to 1900 show that in only one year, viz., 1927, did the value of production of butter exceed that of the year 1928, while the quantity made in 1928 is exceeded by three previous years, viz., 1924, 1926 and 1927. The average price in 1928 is the highest shown for any one of the past eight years. The provinces showing increases in quantity and value over the year 1927 are Prince Edward Island and New Brunswick; the provinces showing increases in value, but decreases in quantity are Quebec, Manitoba and Saskatchewan; while Nova Scotia, Ontario, Alberta and British Columbia show decreases in both quantity and value. Average prices were highest in British Columbia and lowest in Manitoba.

FACTORY CHEESE.- The total output of factory cheese in 1928 was 143,689,794 lb., valued at \$30,313,879, with an average price per lb. of 21.10 cents, compared with 138,056,908 lb., valued at \$25,522,148, and an average price per lb. of 18.49 cents in 1927. The increase in quantity over 1927 amounted to 5,632,886 lb., while the increase in value, owing to the higher price per lb. amounted to \$4,791,731. Prices were higher in 1928 than in any year since 1920. The highest average price per lb. is shown by British Columbia with 29.36 cents, and the lowest price by Quebec with 20.91 cents. To the total cheese production of Canada, Ontario contributed 66 p.c. and Quebec 31 p.c.

CONDENSED, EVAPORATED AND POWDERED MILK.- The total value of these products in 1928 was \$10,226,415, compared with \$10,136,312 in 1927. Increases are shown for milk powder and condensed skim milk, and decreases for condensed and evaporated milk and skim milk powder.



MISCELLANEOUS PRODUCTS OF DAIRY FACTORIES.- The principal items under this head are whey butter and ice cream, and milk and cream sold by the factories for consumption as such. The total value of all of these products in 1928 was \$38,463,269, compared with \$34,492,484 in 1927. The quantity of ice cream made was 6,170,263 gal., valued at \$5,279,900, compared with 5,303,531 gal., valued at \$7,093,109 in 1927.

NUMBER OF DAIRY FACTORIES.- The total number of dairy factories in operation during the year was 2,535, comprising 1,265 creameries, 1303 cheese factories, 288 combined butter and cheese factories, and 29 condenseries. Compared with the preceding year the number of creameries shows a decrease of 1, the number of cheese factories a decrease of 31, the number of combined butter and cheese factories an increase of 16, and the number of condenseries an increase of 2. The total number of factories shows a decrease of 14.

IMPORTS AND EXPORTS

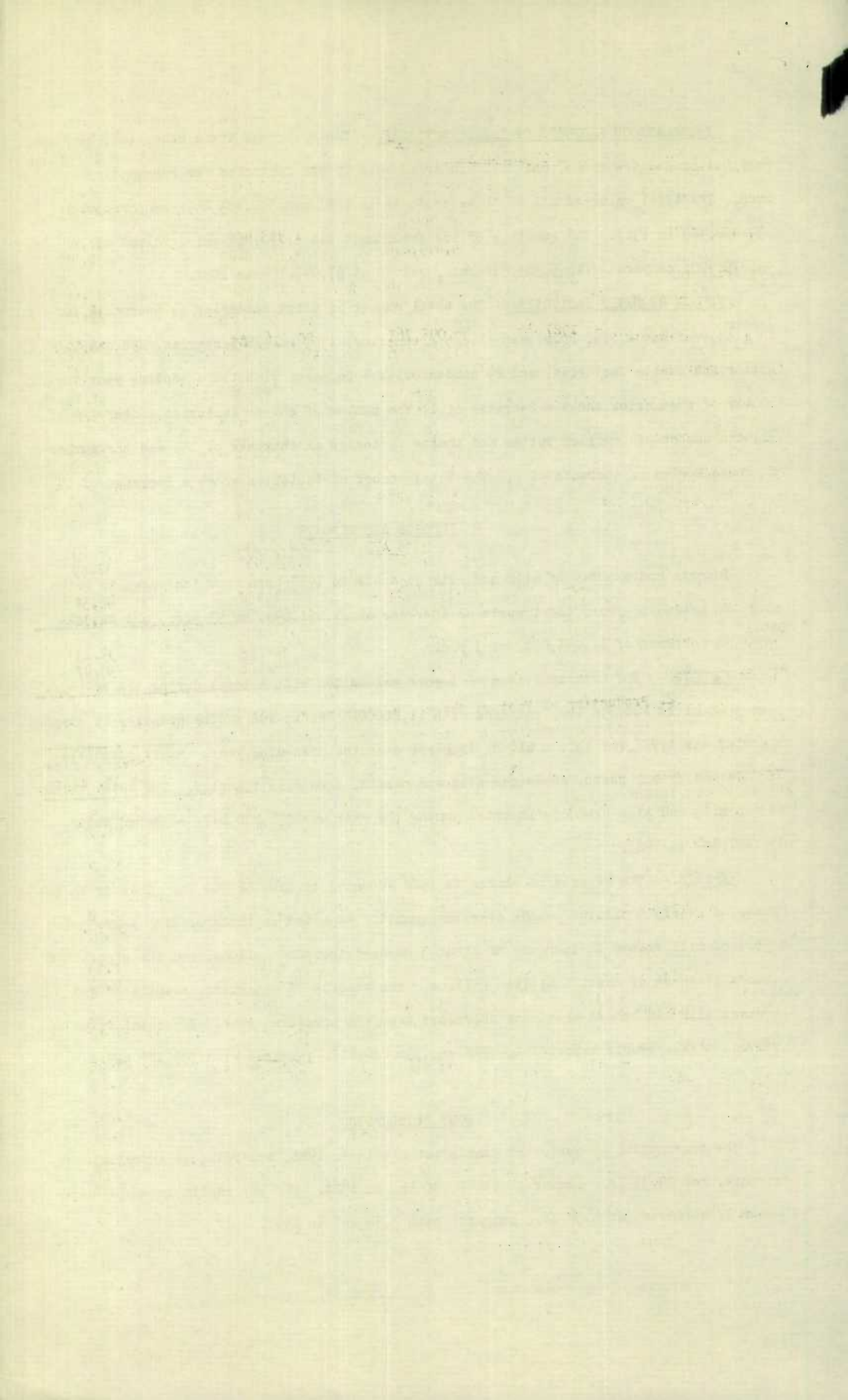
Imports and exports of milk and milk products in 1928 both show increases in value over the preceding year, the imports an increase of \$1,991,646, or 43 p.c., and the exports an increase of \$1,043,088, or 3 p.c.

IMPORTS.- The principal item of import was butter with a total during the calendar year 1928 of 16,301,656 lb., compared with 11,208,819 lb. in 1927. The quantity of cheese imported was 1,778,761 lb., a slight increase over the preceding year. Small quantities of milk and cream, fresh, condensed milk and casein, were also imported. The total value of all milk and milk products imported during the year was \$36,230,617, compared with \$35,187,529 in 1927.

EXPORTS.- The exports of cheese in 1928 amounted to 114,152,500 lb. This is an increase of nearly 4 million pounds over the quantity exported in the preceding year. The export of milk showed an increase of about 3 hundred thousand gallons, and the exports of cream a decrease of about 1 million gallons. The exports of condensed, evaporated and powdered milk and casein also show decreases from the preceding year. The total value of milk and milk products exported in 1928 was \$36,230,617, compared with \$35,187,529 in 1927.

HOME CONSUMPTION

The consumption of butter in Canada per capita in 1928, according to a preliminary estimate, was 29.31 lb., compared with 28.88 lb. in 1927. The per capita consumption of cheese is estimated at 3.54 lb., compared with 3.38 lb. in 1927.

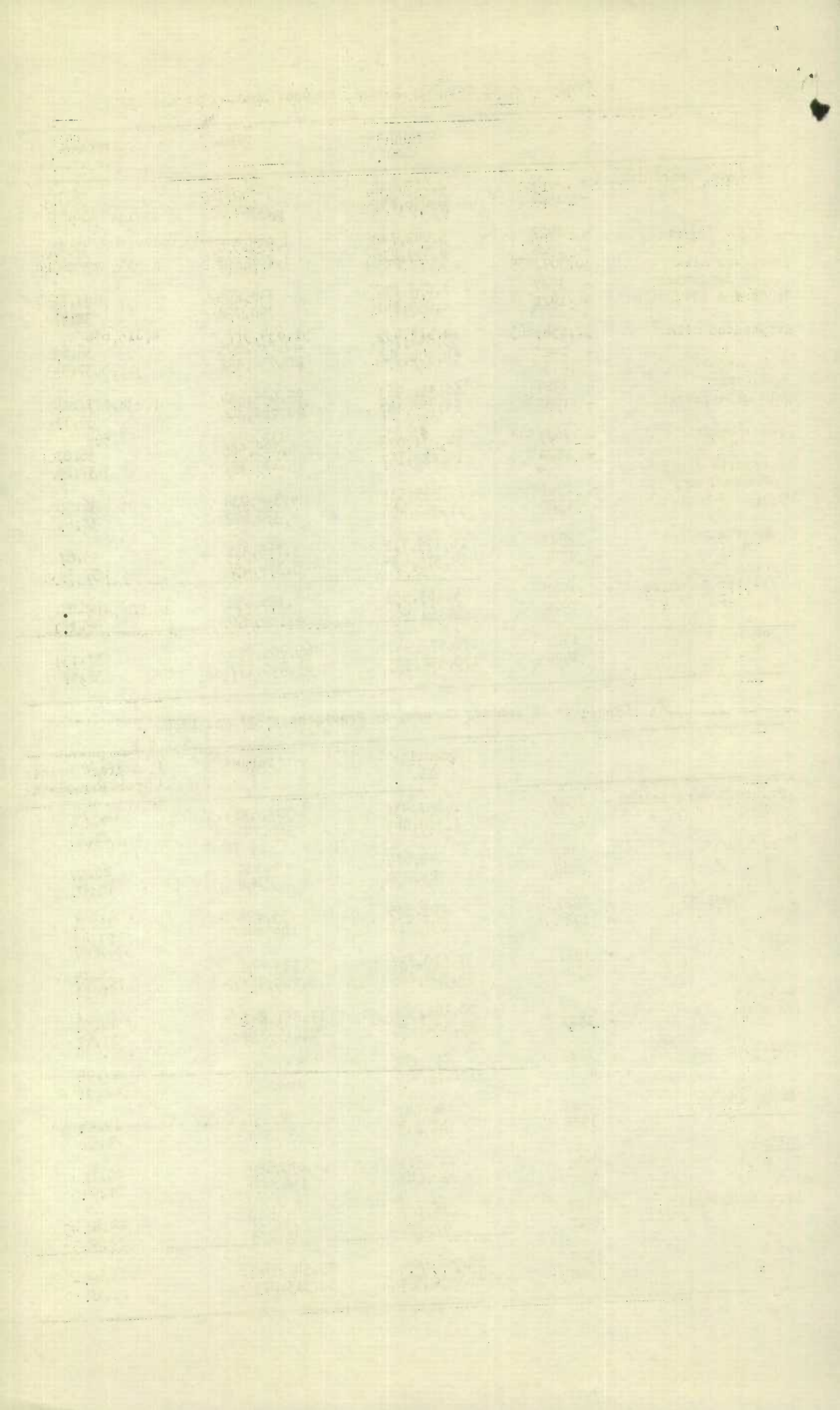


1. Production of Creamery Butter, by Provinces, 1927 and 1928.

		Quantity Lb.	Value \$	Average price per lb. cents
Prince Edward Island	- 1927	2,019,442	742,769	36.78
"	- 1928	2,036,838	784,277	38.50
Nova Scotia	- 1927	5,059,740	1,913,455	37.82
"	- 1928	4,479,276	1,766,868	39.45
New Brunswick	- 1927	1,898,212	714,804	37.66
"	- 1928	2,039,841	790,728	38.76
Quebec	- 1927	55,098,768	20,216,505	36.69
"	- 1928	54,904,046	20,832,898	37.94
Ontario	- 1927	66,312,963	25,095,334	37.84
"	- 1928	63,733,187	24,924,040	39.11
Manitoba	- 1927	14,231,026	5,125,585	36.01
"	- 1928	13,782,167	5,139,387	37.29
Saskatchewan	- 1927	11,995,531	4,354,734	36.30
"	- 1928	11,310,496	4,370,623	38.64
Alberta	- 1927	16,179,712	5,765,348	35.63
"	- 1928	14,375,636	5,374,456	37.39
British Columbia	- 1927	4,183,553	1,721,452	42.58
"	- 1928	3,691,468	1,556,900	42.18
Total	- 1927	176,978,947	65,709,986	37.13
"	- 1928	170,352,955	65,540,177	38.47

2. Production of Factory Cheese, by Provinces, 1927 and 1928.

		Quantity Lb.	Value \$	Average price per lb. cents
Prince Edward Island	- 1927	1,657,431	307,670	18.56
"	- 1928	1,710,943	360,748	21.08
Nova Scotia	- 1927	42,676	8,535	20.00
"	- 1928	25,230	5,298	21.00
New Brunswick	- 1927	803,325	155,098	19.31
"	- 1928	697,811	149,798	21.47
Quebec	- 1927	37,510,737	6,805,658	18.14
"	- 1928	44,326,885	9,265,643	20.91
Ontario	- 1927	96,161,301	17,851,247	18.56
"	- 1928	95,524,155	20,219,834	21.17
Manitoba	- 1927	635,172	139,463	21.95
"	- 1928	477,419	104,884	21.97
Saskatchewan	- 1927	269,042	52,337	19.45
"	- 1928	148,215	32,567	21.97
Alberta	- 1927	348,511	170,689	20.11
"	- 1928	722,043	158,404	21.94
British Columbia	- 1927	128,707	31,451	24.43
"	- 1928	57,028	16,703	29.36
Total	- 1927	138,056,908	25,522,148	18.49
"	- 1928	143,689,794	30,313,879	21.10



3. Production of Condensed and Evaporated Milk, Milk Powder, Etc.,

1927 and 1928.

	1927		1928	
	Pounds	Value	Pounds	Value
	:	\$:	\$
Condensed milk	30,909,839	3,272,283	27,728,995	2,926,477
Condensed skim milk	7,107,998	412,447	7,920,255	437,721
Evaporated milk	51,854,563	4,574,839	51,654,377	4,815,638
Milk powder	2,213,974	466,606	2,314,490	572,088
Skim milk powder	12,751,625	1,226,796	12,509,157	1,236,277
Cream powder	148,384	80,204	114,835	57,599
Buttermilk powder	-	-	330,442	28,745
Condensed buttermilk	-	-	552,456	21,462
Condensed coffee	268,206	50,423	250,347	44,682
Casein	662,378	102,714	563,061	79,726
Total Value		10,186,312		10,226,415

4. Miscellaneous Products of Dairy Factories, 1927 and 1928.

		1927		1928	
		Quantity	Value	Quantity	Value
		:	\$:	\$
Whey butter	Lb.	1,393,730	459,055	1,581,356	542,074
Ice cream	Gal.	5,303,531	7,095,109	6,170,263	8,279,900
Milk sold ^x	"	42,151,842	17,576,453	43,361,972	19,186,570
Cream sold ^x	(Lb. b. fat)	13,308,886	3,223,008	14,500,297	9,202,774
Buttermilk		-	332,783	-	370,280
Whey cream	(Lb. b. fat)	781,978	249,601	837,640	275,344
Ice cream mix	Gal.	347,453	366,962	396,027	385,287
Sundry ^{xx}		-	180,513	-	221,040
Total Value			34,492,484		38,463,269

NOTE:-

x.- Exclusive of Quebec, for which the figures are not available.

xx. - Comprises skim milk cheese, skim milk, whey, etc.



Imports and Exports

(Compiled by the External Trade Branch)

5. Imports into Canada of Dairy Products, for Home Consumption, 1927 and 1928.

	1927		1928	
	Quantity	Value	Quantity	Value
		\$		\$
Milk and cream, fresh Gal.	26,720	15,344	29,140	16,875
Butter Lb.	11,208,819	3,892,640	16,801,656	5,937,170
Cheese "	1,720,797	590,364	1,778,761	554,373
Milk, condensed "	125,089	31,692	137,252	28,870
Casein "	462,536	59,229	369,916	43,627
Total milk and its products		4,589,269		6,580,915

6. Total Exports of Canadian Dairy Products, 1927 and 1928.

	1927		1928	
	Quantity	Value	Quantity	Value
		\$		\$
Milk, fresh Gal.	3,673,242	729,823	3,959,812	866,920
Cream, fresh "	4,044,916	7,120,209	3,043,478	5,593,399
Butter Lb.	2,696,000	1,068,610	1,994,800	805,055
Cheese "	110,533,000	22,012,543	114,152,500	25,467,642
Milk, evaporated "	12,806,900	1,091,483	6,693,500	598,601
Milk powder "	6,529,600	645,832	4,888,500	541,064
Milk, condensed "	20,872,600	2,471,660	20,424,800	2,324,044
Casein "	382,024	47,369	248,582	33,892
Total milk and its products	-	35,187,529	-	36,230,617

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