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DEPARTMENT OF TRADE AND COMMERCE

DOMINION BUREAU OF STATISTICS

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SLAUGHTERING & MEAT PACKING

and

ALLIED INDUSTRIES

in

CANADA

1929

♦ ♦ ♦

Published by Authority of the Hon. H. H. Stevens, M.P.,
Minister of Trade and Commerce

♦ ♦ ♦

OTTAWA

1930

The statistics relating to by-products of the slaughtering and meat packing industry and products of the industries of sausage and sausage casings and animal oils and fats are not in all cases to be regarded as comprehensive, as by-products like lard compound and shortening are also found as products of the vegetable oil industry, and glue and fertilizer as products of the chemical industry.

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October, 1930

Published by Authority of Hon. H. H. Stevens, M.P.,
Minister of Trade and Commerce

DOMINION BUREAU OF STATISTICS, OTTAWA, CANADA.

Dominion Statistician: R.H. Coats, B.A., F.S.S. (Hon.), F.R.S.C.
Chief, Animal Products Statistics Section: Florence A. Brown.

The present volume contains reports on the following industries: Slaughtering and Meat Packing; Sausage and Sausage Casings; Animal Oils and Fats.

**THE SLAUGHTERING AND MEAT PACKING INDUSTRY,
CANADA, 1929.**

The Slaughtering and Meat Packing Industry occupies third place in value of production among the forty leading manufacturing industries of Canada, being exceeded in this respect by only the industries of pulp and paper and flour and grist mill products. It is second on the list for value of raw materials, twenty-second for number of employees, sixteenth for amount paid in salaries and wages, and sixteenth also for capital investment.

ESTABLISHMENTS.— The number of plants classified as slaughtering and meat packing establishments in operation in Canada in 1929 was 74, located by provinces as follows: Prince Edward Island, 2; Nova Scotia, 1; New Brunswick, 8; Quebec, 17; Ontario, 25; Manitoba, 6; Saskatchewan, 3; Alberta, 6; and British Columbia, 6. Of the total number of plants, 63 were engaged in both slaughtering and meat packing, 4 in slaughtering only, and 7 in meat packing only. Nearly all of the plants are operated on a large scale, only 13 of the total number having a product in 1929 valued at less than \$100,000. There were 27 plants with a product valued at from \$100,000 to under \$1,000,000; 10 with a product of from \$1,000,000 to under \$2,000,000, and 24 with a product valued at \$2,000,000 and over. The classification of establishments according to number of employees shows 49 plants in the group of those having less than 100 employees; 18 in the group of those having from 100 to under 500 employees; and 7 in the group of those having 500 employees and over.

PRODUCTION.— The total value of production of slaughtering and meat packing plants in Canada during the year 1929 was \$185,842,902, an increase over the preceding year of \$11,746,483, or 6½ per cent, and an increase over the year 1927 of \$18,622,010, or 11 per cent. The value shown for 1929 is the highest recorded for any year of the nine-year period, 1921 to 1929. The low year of the period was 1924, when the value of output amounted to \$133,740,271, but since that year there has been a steady annual increase. The general average of the nine-year period was \$158,512,697, and the production of 1929 exceeds this average by over 27 million dollars. Prices in 1929 were higher than in either of the two preceding years for all kinds of meats sold fresh: beef rose from 11.6 cents per pound in 1927 to 14.0 cents in 1928 and to 14.9 cents in 1929; mutton and lamb from 20.5 cents per pound in 1927 to 20.9 cents in 1928 and to 21.1 cents in 1929; and veal from 13.6 cents per pound in 1927 to 16.0 cents in 1928 and to 17.5 cents in 1929. Pork dropped from 17.0 cents per pound in 1927 to 16.7 cents in 1928, but

THE UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

WASHINGTON, D. C. 20250

IN REPLY TO LETTER OF

THE SECRETARY OF THE INTERIOR

TO THE SECRETARY OF THE INTERIOR
FROM THE SECRETARY OF THE INTERIOR
DATE: 1988

RE: [Illegible text]

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5. [Illegible text]

rose again in 1929 to 12.5 cents. The meats sold fresh in 1929 comprised beef, 350,817-228 pounds, valued at \$52,292,355, a decrease in quantity from the preceding year of 2,298,851 pounds, but an increase in value of \$2,631,810; veal, 34,246,402 pounds, valued at \$6,002,301, a decrease in quantity of 2,327,654 pounds, but an increase in value of \$139,195; pork, 144,753,695 pounds, valued at \$27,050,662, an increase in quantity of 3,397,107 pounds and in value of \$3,426,144; and mutton and lamb, 32,014,827 pounds, valued at \$6,773,730, an increase in quantity of 3,405,059 pounds and in value of \$788,979. In the nine-year period 1921 to 1929 the annual quantity of beef sold fresh has increased by 32½ per cent, veal by 75 per cent and pork by 86 per cent, while the output of mutton and lamb has decreased by 6 per cent. The average price per pound for beef in 1929 was 1.5 cents higher than in 1921, for mutton and lamb 1.5 cents higher, and for veal 2.4 cents higher, while for pork the average price per pound in 1929 was 2.7 cents lower than in 1921. Among the cured meats, bacon and sides comprise the principal item, with a output in 1929 of 55,182,765 pounds, valued at \$16,319,959. Cured meats have not shared in the increase of the nine-year period, but on the contrary show a decrease in total output owing to the item of "shoulders" having dropped from 55 million pounds in 1921 to 13 million pounds in 1929. The production of lard and of lard compound and other shortenings in 1929 increased in quantity over the preceding year but decreased in value owing to lower average prices, the average price per pound for lard in 1929 being 15.2 cents, compared with 16.3 cents in 1928, and of lard compound and other shortenings, 13.7 cents, compared with 14.1 cents in 1928. Average prices for cattle hides and for calf and sheep skins were considerably lower in 1929 than in 1928, prices for hides having dropped from \$11.01 per hide in 1928 to \$8.13 in 1929; for calf skins from \$2.94 per skin to \$2.36; and for sheep skins from \$1.83 to \$1.34. The 1929 prices for hides and skins were higher, however, than in 1927. The following tables show (1) the total value of products sold during the years 1921 to 1929, and (2) the quantity and value of products sold, by items for the years 1927 to 1929.

1. Total Value of Products Sold, 1921 to 1929.

Year	Value \$	Year	Value \$
1921	153,136,289	1926	167,127,091
1922	145,414,693	1927	167,220,892
1923	138,218,909	1928	174,096,419
1924	133,740,271	1929	135,842,902.
1925	165,816,810.		

THE SLAUGHTERING AND MEAT PACKING INDUSTRY -CANADA

Products Sold, 1927, 1928 and 1929.

K i n d		1927	1928	1929	Percentage of increase or decrease 1929 compared with 1928.
Meats sold fresh -					p.c.
Beef	lb.	371,907,314	353,116,079	350,817,228	- 0.6
	\$	43,295,209	49,660,545	52,292,355	+ 5.0
Mutton and lamb	lb.	26,041,531	28,609,768	32,014,827	+ 11.9
	\$	5,362,015	5,984,751	6,773,730	+ 13.1
Pork	lb.	129,985,452	141,356,588	144,753,695	+ 2.4
	\$	22,169,962	23,624,518	27,050,662	+ 14.5
Veal	lb.	38,465,236	36,574,056	34,246,402	- 16.3
	\$	5,247,695	5,863,106	6,002,301	+ 2.3
Fancy meats, etc.	lb.	17,013,630	16,094,466	17,491,802	+ 8.6
	\$	1,471,872	1,523,058	2,077,065	+ 36.3
Poultry sold fresh	lb.	6,819,675	5,930,432	6,264,537	+ 15.6
	\$	2,204,051	1,891,206	2,102,447	+ 11.1
Meats cured -					
Beef salted or cured	lb.	4,505,154	2,621,709	2,328,102	- 11.1
	\$	609,587	377,914	341,459	- 9.6
Pork, salted	lb.	47,062,296	35,204,450	41,695,884	+ 18.4
	\$	9,087,760	6,161,208	7,898,446	+ 28.1
Hams	lb.	22,774,765	27,917,649	21,972,855	- 21.2
	\$	5,612,678	7,239,742	5,846,280	- 19.2
Shoulders	lb.	8,661,587	10,063,612	13,600,271	+ 35.1
	\$	1,773,440	1,964,118	3,280,716	+ 61.9
Bacon and sides	lb.	69,490,192	52,014,038	55,182,765	+ 6.0
	\$	16,932,547	14,229,217	16,319,959	+ 14.6
Meats cured, n.e.s.	lb.	29,550,382	30,548,981	19,564,249	- 35.6
	\$	6,762,375	5,706,015	4,303,905	- 24.7
Sausage, fresh and cured	lb.	40,893,000	41,307,336	45,037,439	+ 9.0
	\$	7,348,201	7,580,613	8,668,013	+ 14.3
Sausage casings	\$	2,020,164	1,664,554	1,317,921	- 20.8
Canned meats	lb.	8,734,823	6,815,051	10,197,431	+ 49.6
	\$	1,188,961	947,225	1,432,524	+ 51.2
Cooked meats	lb.	16,612,470	22,855,796	22,977,644	+ 0.5
	\$	5,432,522	7,012,476	8,032,544	+ 14.5
Canned soups 1/	lb.	-	2,124,582	1,701,000	- 19.9
	\$	-	292,872	177,750	- 39.3
Mince meat	lb.	486,384	860,017	769,841	- 10.4
	\$	62,635	105,765	94,888	- 10.2
Lard	lb.	51,082,899	51,362,134	53,429,818	+ 4.0
	\$	8,132,045	8,383,608	8,122,761	- 3.1
Lard compound and other shortenings	lb.	44,401,083	50,037,688	51,403,264	+ 2.7
	\$	6,079,651	7,103,878	7,089,672	- 0.2
Tallow	lb.	22,588,372	18,237,843	18,821,581	+ 3.2
	\$	1,723,886	1,485,956	1,489,472	+ 0.2

1/ Not shown separately prior to 1928.

THE UNIVERSITY OF CHICAGO

NAME		RESIDENCE		DATE	
1	ALAN T. BROWN	1234 E. 5th St.	CHICAGO, ILL.	1950	10-15
2	JOHN D. SMITH	567 N. Dearborn Ave.	CHICAGO, ILL.	1951	03-22
3	MARY E. JONES	890 W. Fullerton St.	CHICAGO, ILL.	1952	07-08
4	ROBERT L. GARCIA	210 S. Halsted St.	CHICAGO, ILL.	1953	11-30
5	ELIZABETH K. WHITE	345 E. 12th St.	CHICAGO, ILL.	1954	05-10
6	WILLIAM F. HENRY	678 N. Lincoln Ave.	CHICAGO, ILL.	1955	09-25
7	CHARLES A. MILLER	901 W. Belmont St.	CHICAGO, ILL.	1956	02-18
8	HELEN M. DAVIS	123 S. State St.	CHICAGO, ILL.	1957	06-05
9	FRANK J. WILSON	456 E. 9th St.	CHICAGO, ILL.	1958	10-20
10	JOAN R. ANDERSON	789 N. LaSalle St.	CHICAGO, ILL.	1959	04-12
11	EDWARD G. THOMAS	1012 W. Madison St.	CHICAGO, ILL.	1960	08-01
12	BARBARA L. ROSS	1345 E. 7th St.	CHICAGO, ILL.	1961	12-15
13	DAVID H. GREEN	1678 N. Dearborn Ave.	CHICAGO, ILL.	1962	03-28
14	SARAH J. BAKER	1901 W. Fullerton St.	CHICAGO, ILL.	1963	07-10
15	JOHN P. NELSON	2234 S. Halsted St.	CHICAGO, ILL.	1964	11-22
16	MICHAEL R. HARRIS	2567 E. 12th St.	CHICAGO, ILL.	1965	05-05
17	LUCAS M. KING	2890 N. Lincoln Ave.	CHICAGO, ILL.	1966	09-18
18	ANGELA K. WATSON	3123 W. Belmont St.	CHICAGO, ILL.	1967	02-03
19	CHRISTOPHER L. FORD	3456 S. State St.	CHICAGO, ILL.	1968	06-15
20	DEBORAH A. LEE	3789 E. 9th St.	CHICAGO, ILL.	1969	10-28
21	ANDREW J. SCOTT	4012 N. LaSalle St.	CHICAGO, ILL.	1970	04-10
22	STEPHANIE M. PERKINS	4345 W. Madison St.	CHICAGO, ILL.	1971	08-22
23	KEVIN D. COLE	4678 E. 7th St.	CHICAGO, ILL.	1972	12-05
24	AMANDA R. REED	5001 N. Dearborn Ave.	CHICAGO, ILL.	1973	03-18
25	JUSTIN T. BROWN	5334 W. Fullerton St.	CHICAGO, ILL.	1974	07-30
26	NICOLE K. SMITH	5667 S. Halsted St.	CHICAGO, ILL.	1975	11-12
27	ANTHONY L. JONES	5990 E. 12th St.	CHICAGO, ILL.	1976	05-25
28	CHRISTINA M. GARCIA	6323 N. Lincoln Ave.	CHICAGO, ILL.	1977	09-08
29	DAVID R. WHITE	6656 W. Belmont St.	CHICAGO, ILL.	1978	02-20
30	EMILY J. HENRY	6989 S. State St.	CHICAGO, ILL.	1979	06-03
31	FRANK M. MILLER	7322 E. 9th St.	CHICAGO, ILL.	1980	10-15
32	HELEN K. ANDERSON	7655 N. LaSalle St.	CHICAGO, ILL.	1981	04-28
33	ISABEL L. THOMAS	7988 W. Madison St.	CHICAGO, ILL.	1982	08-10
34	JAMES P. ROSS	8321 E. 7th St.	CHICAGO, ILL.	1983	12-22
35	KAREN M. GREEN	8654 N. Dearborn Ave.	CHICAGO, ILL.	1984	05-05
36	LUCAS J. BAKER	8987 W. Fullerton St.	CHICAGO, ILL.	1985	09-18
37	MICHAEL R. NELSON	9320 S. Halsted St.	CHICAGO, ILL.	1986	02-30
38	ANGELA K. HARRIS	9653 E. 12th St.	CHICAGO, ILL.	1987	06-12
39	CHRISTOPHER L. WATSON	9986 N. Lincoln Ave.	CHICAGO, ILL.	1988	10-25
40	DEBORAH A. FORD	10319 W. Belmont St.	CHICAGO, ILL.	1989	04-08
41	EDWARD G. LEE	10652 S. State St.	CHICAGO, ILL.	1990	08-20
42	FRANK J. SCOTT	10985 E. 9th St.	CHICAGO, ILL.	1991	12-03
43	HELEN M. PERKINS	11318 N. LaSalle St.	CHICAGO, ILL.	1992	05-15
44	ISABEL L. COLE	11651 W. Madison St.	CHICAGO, ILL.	1993	09-28
45	JAMES P. REED	11984 E. 7th St.	CHICAGO, ILL.	1994	02-10
46	KAREN M. BROWN	12317 N. Dearborn Ave.	CHICAGO, ILL.	1995	06-22
47	LUCAS J. SMITH	12650 W. Fullerton St.	CHICAGO, ILL.	1996	10-05
48	MICHAEL R. JONES	12983 S. Halsted St.	CHICAGO, ILL.	1997	03-18
49	ANGELA K. GARCIA	13316 E. 12th St.	CHICAGO, ILL.	1998	07-30
50	CHRISTOPHER L. WHITE	13649 N. Lincoln Ave.	CHICAGO, ILL.	1999	11-12

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THE SLAUGHTERING AND MEAT PACKING INDUSTRY -CANADA
Products Sold, 1927, 1928 and 1929 -Concluded.

K i n d		1927	1928	1929	Percentage of in- crease or decrease 1929 compared with 1928
Oleo	lb. \$	4,540,623 477,823	2,948,402 330,609	4,134,983 361,282	^{P.C.} + 40.2 + 15.3
Other oils	lb. \$	10,390,778 1,119,647	2,329,363 285,439	8,067,077 966,635	+246.2 +238.6
Stearine	lb. \$	29,649 3,048	766,209 55,113	1,317,088 119,810	+ 71.8 +117.3
Grease	lb. \$	3,841,744 318,018	4,570,593 356,059	4,678,903 350,423	+ 2.3 - 1.5
Cracklings 1/	lb. \$	- -	6,826,007 167,105	7,524,222 183,172	+ 10.2 + 9.6
Poultry food 2/	lb. \$	- -	- -	4,231,174 143,214	- -
Animal tankage	tons \$	17,012 833,334	15,482 761,271	14,682 751,298	- 5.1 - 1.3
Bones, raw, ground, etc.	tons \$	5,047 202,005	4,339 196,863	3,552 176,797	- 18.1 - 10.1
Complete fertilizers	tons \$	22,519 881,914	20,381 944,818	24,828 910,421	+ 21.8 - 3.6
Glue	lb. \$	153,037 3,149	104,044 1,735	5,657 255	- 94.5 - 85.3
Hides	No. \$	734,984 6,165,302	694,650 7,650,266	701,563 5,701,851	+ 0.9 - 25.4
Skins, sheep	No. \$	716,712 990,194	564,923 1,033,569	988,378 1,329,010	+ 74.9 + 28.5
Skins, calf	No. \$	234,573 520,668	221,191 651,592	237,583 561,673	+ 7.4 - 13.7
Wool	lb. \$	1,157,395 574,657	1,356,368 656,930	1,401,371 482,698	+ 3.3 - 26.5
Hair	lb. \$	409,268 43,488	756,291 25,577	531,465 21,194	- 29.7 - 17.1
Soap 1	lb. \$	- -	887,578 91,470	772,642 71,539	- 12.9 - 21.7
All other products	\$	2,233,380	1,762,520	2,674,976	+ 51.7
Amount received for custom or contract work	\$	337,009	323,138	301,784	- 6.6
TOTAL FACTORY VALUE OF PRODUCTS SOLD	\$	167,220,892	174,096,419	185,842,902	+ 6.7

1/ Not shown separately prior to 1928.

2/ " " " " " 1929.

Capital.- The capital investment of the industry in 1929 had a total value of \$67,777,803, this amount being apportioned as follows: land, buildings and equipment, \$28,738,653; materials on hand, stocks in process, etc., \$19,772,760; and cash and operating accounts, \$19,266,390. The average capital investment per establishment increased from \$882,646 in 1928 to \$942,943 in 1929.

Time in Operation.- The total number of days operated by all establishments during the year was 21,433, or an average per establishment of 289.6 days, compared with a total of 21,704 days and an average per establishment of 289.4 days in 1928.

Employees and Salaries and Wages.- There were 10,762 persons employed by the plants in 1929, comprising 8,263 wage-earners and 2,499 salaried employees. The wage-earners received for their work during the year a total of \$9,274,034, and the salaried employees a total of \$4,724,682, making a total salary and wage bill for the industry of \$13,998,716. Compared with the preceding year the total number of employees shows a decrease of 482 and the ^{amount paid in} salaries and wages a decrease of \$243,646. Employment for wage-earners in 1929 was at its height in November, when 9,069 persons were on the pay roll; the month of lowest employment was March, when 7,703 persons were employed. These months were also the highest and lowest respectively in 1928. The average number of hours worked by wage-earners per day in this industry during 1929 was 8.8 and the average number per week, 49.4. Compared with the preceding year, the number of hours worked per day shows a decrease of 0.3, and the number of hours per week a decrease of 2.2.

Animals Slaughtered and Materials Used.- The number of animals slaughtered in the plants during the year was 4,444,174, with a total dressed weight of 821,244,212 pounds, and a total cost value of \$126,501,496. For the year 1928 the corresponding figures were: total number slaughtered, 4,579,984; total dressed weight, 831,284,235 pounds; and total cost value, \$120,322,283. Decreases from 1928 are shown in the number of beeves, hogs and calves slaughtered, and an increase in the number of sheep and lambs, but total cost values of all four items were greater in 1929 owing to higher average prices. The quantities of poultry killed and dressed and of dressed meat purchased fresh or partly cured show increases over 1928 in both quantity and value. Other materials used in 1929 include cottonseed oil, 38,762,419 pounds, an increase over the preceding year of 4,436,710 pounds, and other animal and vegetable oils, 25,037,678 pounds, an increase of 14,653,815 pounds. The total cost value of all animals slaughtered and materials used in 1929 was \$151,814,517, compared with \$142,396,342 in 1928.

It might be interesting here to compare returns of slaughterings in 1929 with those of 1921. During the nine year period there was an increase of 39 per cent in
(page 5½ follows)

the total number of animals slaughtered. The number of beeves slaughtered shows an increase of 39 per cent, the number of sheep and lambs an increase of 1 per cent; of hogs an increase of 48 per cent, and of calves an increase of 100 per cent. The following table shows the numbers of the different kinds of animals slaughtered in the years 1921 to 1929.

Year	Beeves No.	Sheep and Lambs No.	Hogs No.	Calves No.
1921	517,755	714,909	1,774,510	181,528
1922	561,784	683,596	2,166,123	293,121
1923	564,541	614,903	2,472,740	263,222
1924	590,628	544,394 553,915	3,050,159 3,134,963	400,247 303,912
1925	664,864	529,028	3,033,466	334,519
1926	693,290	543,891	2,681,305	334,398
1927	752,364	621,805	2,821,234	388,405
1928	725,908	638,863	2,824,990	390,223
1929	719,520	720,852	2,639,005	364,797

Imports and Exports.— Decreases from the preceding year are recorded in both imports and exports of products of the slaughtering and meat packing industry. The total value of the imports dropped from \$24,846,225 in 1928 to \$20,784,315 in 1929, while the value of the exports dropped from \$34,952,150 to \$26,223,161. The principal items of export in 1929 were: hides and skins, \$7,632,337, bacon and hams, shoulders and sides, \$6,868,646; and beef, fresh, chilled or frozen, \$4,852,181.

Consumption of Meats.— The following statement, prepared by the Agricultural Branch of the Dominion Bureau of Statistics, shows the estimated total consumption and consumption per capita of meats in Canada in 1929.

	Total consumption	Consumption per capita
	lb.	lb.
Beef	676,900,352	69.09
Pork	798,638,774	81.52
Mutton and lamb	70,511,238	7.20

GENERAL TABLES

The general tables which follow give detailed statistics of the slaughtering and meat packing industry (tables 1 to 13); statistics of the allied industries of sausage, sausage casings and animal oils and fats (tables 14 to 16); and statistics of imports and exports of the meat industry (tables 17 and 18).

A list of the operators of slaughtering and meat packing plants is issued as an appendix to the report.

289,208 — 289,208 — 289,208 — 289,208 —

THE SLAUGHTERING AND MEAT - PACKING INDUSTRY, CANADA

1. Principal Statistics of the Slaughtering and Meat-Packing Industry, Canada, 1929

Province	Estab- lish- ments	Capital Invested	Employees		Cost of animals slaughtered and materials used	Factory Value of Products Sold	Value added by Manufacture
			No.	Salaries and Wages			
	No.	\$		\$	\$		\$
Maritime Provinces ¹	11	1,012,872	275	266,920	2,396,040	3,067,926	671,886
Quebec	17	9,146,898	1,782	2,201,674	22,420,616	27,216,918	4,796,302
Ontario	25	33,772,742	4,635	6,278,579	77,329,864	94,916,855	17,586,991
Manitoba	6	5,586,810	1,375	1,781,739	18,418,167	22,370,467	3,952,300
Saskatchewan	3)						
Alberta	6)	12,883,049	2,033	2,552,504	21,605,609	26,526,436	4,920,827
British Columbia	6	5,375,432	662	917,300	9,644,221	11,744,300	2,100,079
TOTAL	74	67,777,803	10,762	13,998,716	151,814,517	185,842,902	34,028,385

¹ Establishments in the Maritime Provinces are distributed as follows: Prince Edward Island 2; Nova Scotia 1; New Brunswick 8.

THE SLAUGHTERING AND MEAT-PACKING INDUSTRY, CANADA

2. Products Sold, 1929.

Kind		Maritime Provinces	Quebec	Ontario	Manitoba	Saskatchewan and Alberta	British Columbia	CANADA
Meat sold fresh -								
Beef	lb.	1,795,693	49,297,020	170,334,314	57,382,734	43,386,809	28,620,658	350,817,228
	\$	292,256	6,667,585	27,532,436	7,713,127	5,736,457	4,350,494	52,292,355
Mutton and lamb	lb.	746,378	6,559,147	16,053,088	2,084,158	2,992,218	3,579,838	32,014,827
	\$	142,087	1,350,950	3,408,320	413,168	625,279	833,926	6,773,730
Pork	lb.	1,412,032	30,412,242	63,026,858	19,864,164	21,923,779	8,114,620	144,753,695
	\$	288,282	5,825,881	12,254,912	3,520,190	3,702,618	1,458,779	27,050,662
Veal	lb.	54,760	10,847,222	10,310,766	5,044,193	6,417,616	1,569,845	34,246,402
	\$	8,208	1,793,297	2,079,787	885,767	966,647	268,595	6,002,301
Fancy meats, etc.	lb.	-	799,027	14,990,741	275,309	1,267,120	159,605	17,491,802
	\$	-	246,667	1,625,264	26,620	154,256	24,258	2,077,065
Poultry	lb.	35,609	206,124	1,757,521	1,367,683	1,660,803	1,236,797	6,264,537
	\$	13,880	65,573	811,600	403,722	447,054	360,618	2,102,447
Meats cured -								
Beef, salted or cured	lb.	31,637	120,188	2,043,555	-	111,722	21,000	2,328,102
	\$	4,375	19,051	294,533	-	17,000	6,500	341,459
Pork, salted	lb.	1,036,219	4,418,595	16,023,277	6,221,455	13,752,201	244,137	41,695,884
	\$	163,895	811,417	2,912,960	1,249,382	2,703,966	56,826	3,898,446
Hams	lb.	1,655,104	4,881,900	7,283,591	2,589,611	3,948,766	1,613,883	21,972,855
	\$	408,017	1,196,993	1,951,759	712,913	1,108,784	467,814	5,846,280
Shoulders	lb.	993,860	2,499,563	6,175,829	906,394	2,309,452	715,173	13,600,271
	\$	182,724	503,901	1,745,563	230,312	457,275	160,941	3,280,716
Bacon and sides	lb.	1,354,670	4,715,399	33,419,748	3,603,955	9,305,800	2,783,193	55,182,765
	\$	396,941	1,461,813	9,470,075	1,117,507	2,965,579	908,044	16,319,959

THE SLAUGHTERING AND MEAT-PACKING INDUSTRY, CANADA

2. Products Sold, 1929 - Con.

Kind		Maritime Provinces	Quebec	Ontario	Manitoba	Saskatchewan and Alberta	British Columbia	CANADA
Meats cured - Con. -								
Meats cured, n.e.s.	lb.	478,098	662,686	14,160,026	1,933,366	901,629	1,428,444	19,564,249
	¢	95,836	150,100	3,097,963	415,904	184,500	359,602	4,303,905
Sausage, fresh and cured	lb.	1,766,980	4,952,330	18,844,174	6,095,584	11,339,581	2,038,790	45,037,439
	¢	336,059	939,098	3,709,933	1,035,917	2,194,230	452,776	8,668,013
Sausage casings	¢	20,198	162,323	829,639	155,163	81,582	69,016	1,317,921
Canned meats, all kinds	lb.	677,836	4,370,490	4,587,813	7,664	140,326	413,302	10,197,431
	¢	79,948	578,695	642,148	1,055	28,155	102,523	1,432,524
Cooked meats, all kinds	lb.	340,439	2,691,650	14,724,125	2,237,973	2,465,698	517,759	22,977,644
	¢	110,793	879,307	4,993,527	783,578	1,067,096	198,243	8,032,544
Canned soups	lb.	-	1,701,000	-	-	-	-	1,701,000
	¢	-	177,750	-	-	-	-	177,750
Mince meat	lb.	11,846	22,911	269,191	64,166	136,702	265,025	769,841
	¢	1,461	4,830	29,956	8,478	19,417	30,746	94,888
Lard	lb.	1,067,706	4,375,315	25,342,255	5,897,337	13,873,041	2,874,164	53,429,818
	¢	168,266	687,847	3,830,552	883,201	2,102,737	450,158	8,122,761
Lard compound and other shortenings	lb.	1,017,472	4,548,538	36,973,631	5,165,232	2,602,493	1,095,898	51,403,264
	¢	156,950	675,919	5,029,626	714,699	358,979	153,499	7,089,672
Tallow	lb.	74,960	4,418,133	6,321,370	3,712,673	2,735,233	1,559,212	18,821,581
	¢	5,844	357,735	526,064	283,790	191,118	124,921	1,489,472
Oleo	lb.	-	176,865	3,457,168	500,950	-	-	4,134,983
	¢	-	16,905	321,210	43,167	-	-	381,282
Other oils	lb.	7,329	32,814	5,881,490	2,123,322	22,122	-	8,067,077
	¢	733	4,932	697,445	260,331	3,194	-	966,635

THE SLAUGHTERING AND MEATPACKING INDUSTRY, CANADA

2. Products Sold, 1929, - Con'd.

Kind		Maritime Provinces	Quebec	Ontario	Manitoba	Saskatchewan and Alberta	British Columbia	CANADA
Stearine	lb.	4,225	852	1,311,611	390	-	-	1,317,088
	¢	528	99	119,147	36	-	-	119,810
Grease	lb.	56,512	1,050,997	2,075,836	301,865	764,035	429,638	4,678,903
	¢	4,460	80,556	155,921	24,838	51,955	32,693	350,423
Cracklings	lb.	1,000	5,199,477	503,000	2,669	326,320	1,431,756	7,524,222
	¢	60	113,925	12,510	148	9,453	47,076	183,172
Poultry food	lb.	-	-	-	-	-	4,231,174	4,231,174
	¢	-	-	-	-	-	143,214	143,214
Animal tankage	tons	133	1,908	7,435	2,534	2,604	68	14,682
	¢	4,631	103,836	401,178	119,827	118,766	3,060	751,298
Bone, raw, ground, etc.	tons	8	406	2,019	568	508	43	3,552
	¢	100	20,513	105,193	25,197	24,082	1,712	176,797
Complete fertilizers	tons	-	116	21,723	1,179	255	1,555	24,828
	¢	-	6,509	754,246	59,920	14,727	75,019	910,421
Glue	lb.	-	5,657	-	-	-	-	5,657
	¢	-	255	-	-	-	-	255
Hides	No.	2,006	117,397	323,422	113,483	90,752	54,503	701,563
	¢	9,997	868,089	2,832,594	891,205	640,457	459,509	5,701,851
Sheep skins	No.	15,561	165,779	637,052	49,466	47,233	73,287	988,378
	¢	22,288	223,899	813,718	70,222	81,933	116,950	1,329,010
Calf skins	No.	852	103,161	63,327	31,793	29,834	8,616	237,583
	¢	1,721	181,113	201,199	77,171	77,568	22,901	561,673
Wool	lb.	-	-	1,371,797	-	29,574	-	1,401,371
	¢	-	-	477,025	-	5,673	-	482,698
Hair	lb.	-	62,335	375,570	93,560	-	-	531,465
	¢	-	1,590	14,931	4,673	-	-	21,194

THE SLAUGHTERING AND MEATPACKING INDUSTRY, CANADA

2. Products Sold, 1929, - Concluded.

Kind		Maritime Provinces	Quebec	Ontario	Manitoba	Saskatchewan and Alberta	British Columbia	CANADA
Soap	lb.	272,459	-	459,907	2,649	37,627	-	772,642
	\$	18,500	-	47,499	262	5,278	-	71,539
All other products	\$	128,888	747,777	1,186,422	227,381	380,621	3,887	2,674,976
Amount received for custom or contract work	\$	-	290,188	-	11,596	-	-	301,784
Total factory value of products sold	\$	3,067,926	27,216,918	94,916,855	22,370,467	26,526,436	11,744,300	185,842,902

THE SLAUGHTERING AND MEAT PACKING INDUSTRY, CANADA

3. Capital Invested, 1929.

Province	Estab- lish- ments	Land Buildings and Machinery	Materials and supplies on Hand, stocks in process, etc.	Cash and and Operating accounts	Total Capital
	No.	\$	\$	\$	\$
Maritime Provinces	11	466,156	277,930	268,786	1,012,872
Quebec	17	4,013,848	3,053,330	2,079,720	9,146,898
Ontario	25	13,512,750	8,561,792	11,698,200	33,772,742
Manitoba	6	1,560,046	2,675,713	1,351,051	5,586,810
Saskatchewan	3)				
Alberta	6)	6,278,205	3,998,860	2,605,984	12,883,049
British Columbia	6	2,907,648	1,205,135	1,262,649	5,375,432
T O T A L	74	28,738,653	19,772,760	19,266,390	67,777,803

4. Time in Operation, 1929

Province	Estab- lish- ments	Days in Operation on full or part time	Days idle	Average days in operation
	No.	No.	No.	No.
Maritime Province 1/	11	2,656	691	241.4
Quebec	17	4,968	200	292.2
Ontario	25	7,596	8	303.8
Manitoba	6	1,826	-	304.3
Saskatchewan	3)			
Alberta	6)	2,735	1	303.9
British Columbia	6	1,652	174	275.3
T O T A L	74	21,433	1,074	289.6

5. Employees and Salaries and Wages, 1929.

Province	Salaried Employees			Wage-earners		
	Male	Female	Total Salaries	Male	Female	Total Wages
	No.	No.	\$	No.	No.	\$
Maritime Provinces	83	13	119,661	173	6	147,259
Quebec	340	65	768,564	1,198	179	1,433,110
Ontario	1,016	134	2,267,881	3,214	271	4,010,698
Manitoba	253	43	557,544	976	103	1,224,195
Saskatchewan)						
Alberta)	350	58	733,635	1,435	190	1,818,869
British Columbia	112	32	277,397	433	80	639,903
T O T A L	2,154	345	4,724,682	7,434	829	9,274,034

1/ Establishments in the Maritime Provinces are located as follows:
Prince Edward Island, 2; Nova Scotia, 1; and New Brunswick 8.

THE SLAUGHTERING AND MEAT PACKING INDUSTRY, CANADA

6. Number of Wage-Earners, by months, 1929.

Province	January	February	March	April	May	June
	No.	No.	No.	No.	No.	No.
Maritime Provinces	155	155	152	153	145	131
Quebec	1,369	1,331	1,284	1,280	1,295	1,358
Ontario	3,377	3,276	3,263	3,238	3,322	3,422
Manitoba	1,000	975	922	1,001	1,002	1,004
Saskatchewan)						
Alberta)	1,551	1,581	1,575	1,571	1,596	1,611
British Columbia	505	491	507	492	480	470
T O T A L	7,957	7,809	7,703	7,735	7,840	7,996

Province	July	August	September	October	November	December
	No.	No.	No.	No.	No.	No.
Maritime Provinces	122	131	140	185	187	148
Quebec	1,382	1,398	1,443	1,481	1,493	1,409
Ontario	3,574	3,592	3,685	3,541	3,820	3,632
Manitoba	1,070	1,216	1,118	1,168	1,302	1,163
Saskatchewan)						
Alberta)	1,639	1,687	1,663	1,645	1,728	1,651
British Columbia	514	513	521	529	539	538
T O T A L	8,301	8,537	8,570	8,549	9,069	8,541

7. Number of Hours worked by Wage-Earners, 1929.

Province	Total hours worked per day	Total hours worked per week	Average hours per day	Average hours per week
Maritime Provinces	1,593	9,266	8.9	51.7
Quebec	13,077	72,988	9.5	53.0
Ontario	30,333	164,115	8.7	47.1
Manitoba	9,693	55,869	8.9	51.7
Saskatchewan)				
Alberta)	13,510	80,347	8.3	49.4
British Columbia	4,577	25,750	8.8	49.7
T O T A L	72,783	408,335	8.8	49.4

8. Hours of Work of Wage-Earners in Month of Highest Employment 1929

Province	Estab-lish-ments	Number of wage-earners in month of highest employment working			
		8 hours per day or less	9 hours	10 hours	Over 10 hours
	No.	No.	No.	No.	No.
Maritime Provinces	11	21	192	-	-
Quebec	17	271	183	1,062	17
Ontario	25	1,622	1,525	679	116
Manitoba	6	549	128	414	215
Saskatchewan)	3)				
Alberta)	6)	824	592	389	3
British Columbia	6	180	375	1	-
T O T A L	74	3,467	2,995	2,545	351

1/ Establishments in the Maritime Provinces are located as follows:
Prince Edward Island, 2; Nova Scotia, 1; and New Brunswick 3.

THE SLAUGHTERING AND MEAT PACKING INDUSTRY, CANADA

9. Fuel Used, 1929.

Provinces	Estab- lish- ments	Coal		Coke		Gasoline		Fuel Oil		Wood		Gas	Other fuel	Cost of Electric- ity	Total value
	No.	Tons	\$	Tons	\$	Gal.	\$	Gal.	\$	Cord	\$	\$	\$	\$	\$
Maritime Provinces	11	1,576	9,765	-	-	-	-	-	-	55	570	394	-	8,501	19,231
Quebec	17	17,573	100,690	83	415	-	-	-	-	1,440	3,342	3,523	6,979	64,468	179,417
Ontario	25	45,777	240,585	3,351	9,197	200	42	93,221	8,503	498	4,407	7,119	236	205,346	475,435
Manitoba	6	23,156	122,571	-	-	-	-	-	-	400	2,400	482	-	59,547	185,000
Saskatchewan	3)														
Alberta	6)	52,826	147,171	-	-	710	213	-	-	67	588	31,168	-	54,383	233,523
British Columbia	6	4,474	25,296	-	-	-	-	8,146	814	2,432	8,003	987	125	25,598	60,823
TOTAL	74	145,382	646,079	3,434	9,612	910	255	101,367	9,317	4,892	19,310	43,673	7,340	417,843	1,153,429

10. Power Equipment 1929

Provinces	Steam engines and turbines		Gas, gasoline and oil engines		Total primary power		Electric motors operated by purchased power		Total power equipment		Electric motors oper- ated by power generated by primary power		Total electric motors		Boilers	
	No.	H.p.	No.	h.p.	No.	h.p.	no.	h.p.	no.	h.p.	no.	h.p.	no.	h.p.	no.	h.p.
Maritime Provinces	2	22	-	-	2	22	40	364	42	386	-	-	40	364	8	341
Quebec	13	890	1	25	14	915	213	3,525	227	4,440	-	-	213	3,525	25	2,323
Ontario	22	1,597	3	12	25	1,609	757	12,890	782	14,499	-	-	757	12,890	42	7,772
Manitoba	1	75	-	-	1	75	327	4,354	328	4,429	-	-	327	4,354	14	1,770
Saskatchewan)																
Alberta)	17	2,754	2	50	19	2,804	295	3,760	314	6,564	85	830	380	4,590	23	4,475
British Columbia	1	75	-	-	1	75	146	1,916	147	1,991	-	-	146	1,916	6	680
TOTAL	56	5,413	6	87	62	5,500	1,778	26,809	1,840	32,309	85	830	1,863	27,639	118	17,361

THE SLAUGHTERING AND MEAT PACKING INDUSTRY, CANADA

11. - Animals Slaughtered and Materials Used, 1929.

		Maritime Provinces	Quebec	Ontario	Manitoba	Saskatchewan and Alberta	British Columbia	CANADA
Beeves, slaughtered	No.	1,422	115,192	350,418	116,606	89,804	46,078	719,520
Dressed weight	lb.	683,037	49,684,290	178,902,283	58,446,251	46,679,877	26,460,627	360,856,365
	¢	100,985	6,669,950	28,985,898	7,719,131	6,085,035	4,207,460	53,768,459
Sheep and lambs								
Slaughtered	No.	16,996	155,496	368,531	49,811	61,774	68,244	720,852
Dressed weight	lb.	628,080	5,782,876	15,355,539	2,205,272	2,872,344	2,913,321	29,757,432
	¢	122,904	1,246,487	3,509,759	472,248	615,297	760,719	6,727,414
Hogs, slaughtered	No.	37,865	351,289	1,229,228	329,660	561,497	129,446	2,639,005
Dressed weight	lb.	5,682,872	50,744,582	187,301,211	49,735,362	80,394,865	17,901,712	391,760,604
	¢	794,560	8,139,656	28,977,091	7,267,983	11,836,369	2,867,078	59,882,737
Calves, slaughtered	No.	1,202	155,375	114,343	41,993	43,251	8,633	364,797
Dressed weight	lb.	109,505	11,884,316	12,459,432	5,817,858	7,067,618	1,531,082	38,869,811
	¢	11,490	1,622,083	2,336,761	911,612	1,006,162	234,778	6,122,886
Dressed meat purchased fresh or partially cured	lb.	7,030,810	24,058,836	29,926,686	1,699,119	2,187,339	4,952,958	69,855,748
	¢	1,142,107	3,251,345	5,172,793	270,271	318,318	828,732	10,983,566
Poultry	lb.	34,451	335,499	2,773,164	1,290,657	2,076,508	1,228,077	7,738,356
	¢	11,116	92,483	759,249	297,019	398,957	279,380	1,838,204
Cottonseed oil	lb.	5,760	3,547,109	26,321,381	7,545,219	677,231	665,719	38,762,419
	¢	576	419,623	2,167,785	721,844	78,343	80,483	3,468,654
Other animal and vegetable oils	lb.	381,771	508,819	23,334,657	307,111	505,320	-	25,037,678
	¢	60,273	77,699	1,888,753	32,786	58,858	-	2,118,369
Salt, sugar, spices, etc.,	¢	36,904	182,777	338,465	157,976	152,878	77,196	946,196
Containers, wrappings, cases, etc.	¢	74,431	306,343	1,704,592	539,169	829,500	103,564	3,557,599
All other materials	¢	40,694	412,170	1,488,718	28,128	225,892	204,831	2,400,433
TOTAL VALUE	¢	2,396,040	22,420,616	77,329,864	18,418,167	21,605,609	9,644,221	151,814,517

THE SLAUGHTERING AND MEAT PACKING INDUSTRY - CANADA

12. Classification of Establishments According to Number of Employees, 1929.

Province	Total Number of Establish- ments	Establishments Employing			
		Less than 50 persons	50 to under 100 persons	100 to under 500 persons	500 persons and over
	No.	No.	No.	No.	No.
Maritime Provinces	11	9	2	-	-
Quebec	17	10	3	3	1
Ontario	25	12	5	4	4
Manitoba	6	2	-	3	1
Saskatchewan	3)				
Alberta	6)	1	1	6	1
British Columbia	6	3	1	2	-
TOTAL	74	37	12	18	7

13. Classification of Establishments According to Value of Production, 1929

Province	Establishments having a Production valued at				
	Less than \$100,000	\$100,000 to under \$500,000	\$500,00 to under \$1,000,000	\$1,000,000 to under \$2,000,000	\$2,000,000 and over
	No.	No.	No.	No.	No.
Maritime Provinces	4	6	-	1	-
Quebec	4	5	4	1	3
Ontario	3	7	1	4	10
Manitoba	-	1	1	1	3
Saskatchewan)					
Alberta)	-	1	-	2	6
British Columbia	2	1	-	1	2
TOTAL	13	21	6	10	24

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14. Principal Statistics of the Industries of Sausage and Sausage Casings, and Animal Oils and Fats, Canada, 1929.

Sausage and Sausage Casings. (a)

Province	Estab- lish- ments No.	Capital Invested \$	Number	Employees Salaries and Wages \$	Cost of Materials Used \$	Factory Value of Products Sold \$
Quebec	13	571,641	107	145,993	490,889	798,273
Ontario	17	482,396	112	138,338	880,822	1,130,872
Manitoba	6)	102,067	44	54,980	348,131	448,516
British Columbia	2)					
T O T A L	38	1,156,104	263	339,311	1,719,842	2,377,661

Includes 1 outside Quebec

Animal Oils and Fats (b)

Canada (c)	5	862,240	125	145,846	310,605	530,886
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15. Production of Establishments Engaged in the Manufacture of Sausage and Sausage Casings, Canada, 1929 (a).

Kind		Quebec	Ontario	Manitoba and Br. Columbia	Canada
Sausage, fresh or cured	lb.	2,583,724	4,096,068	1,473,516	8,153,308
	\$	424,058	805,555	304,256	1,533,869
Sausage casings	\$	147,941	74,399	-	222,340
Meats, sold fresh	lb.	-	1,007,574	-	1,007,574
	\$	-	161,212	-	161,212
Meats, cured	lb.	541,160	188,656	36,500	766,316
	\$	186,525	65,446	8,295	260,266
Meats, cooked	lb.	-	92,908	173,849	266,757
	\$	-	23,299	44,306	67,605
Other Products	\$	39,749	961	91,659	132,369
T O T A L V A L U E	\$	798,273	1,130,872	448,516	2,377,661

16. Production of Establishments Engaged in the Manufacture of Animal Oils and Fats, Canada, 1929 (b)

Kind	Canada (c)
Lard oil.....Gal.	102,912
	\$ 121,612
Other oils.....Gal.	6,420
	\$ 11,226
Stearine.....Lb.	336,896
	\$ 27,129
Tallow.....Lb.	577,500
	\$ 41,244
Grease.....Lb.	2,004,168
	\$ 120,250
Glue.....Lb.	468,749
	\$ 46,875
Tankage.....Tons	800
	\$ 9,600
Bones.....Tons	140
	\$ 4,201
Horse hides.....No.	6,874
	\$ 27,496
Stock and poultry foods.....Lb.	2,184,070
	\$ 61,857
Cracklings.....Lb.	485,000
	\$ 10,309
Other Products.....\$	49,087
T O T A L V A L U E.....\$	530,886

(a) Manufacturing Establishments whose chief or only product is sausage or sausage casings.

(b) Manufacturing Establishments whose chief or only products are animal oils or fats.

(c) Comprises 1 establishment in Quebec and 4 in Ontario.

IMPORTS AND EXPORTS

(Compiled by the External Trade Branch)

17. Imports into Canada for Consumption of Products of the Slaughtering and Meat Packing Industry, during the calendar years 1927, 1928 and 1929.

Articles		1927	1928	1929
<u>MEATS</u>				
Beef, fresh, chilled or frozen	Lb.	157,356	2,276,850	4,565,112
	\$	59,744	218,467	443,949
Mutton and lamb, fresh, chilled or frozen	Lb.	1,946,037	2,332,571	4,401,258
	\$	303,814	355,809	600,573
Pork, fresh, chilled or frozen	lb.	762,042	893,010	1,007,490
	\$	134,972	139,797	159,386
Poultry and game, n.o.p.	\$	126,483	124,614	136,661
Other meats, fresh, chilled or frozen	lb.	57,885	225,428	169,886
	\$	17,248	44,911	48,455
Bacon and hams, shoulders and sides, cured	lb.	1,834,771	2,768,846	6,855,217
	\$	253,305	344,019	974,385
Beef, pickled, in barrels	lb.	92,541	242,241	670,300
	\$	8,727	28,610	72,959
Canned meats, and canned poultry and game	lb.	3,803,461	5,510,756	7,021,910
	\$	538,050	755,305	919,565
Dried or smoked meats, and meats preserved in any other way than salted or pickled, n.o.p.	lb.	86,910	95,054	171,557
	\$	27,062	33,089	55,145
Extracts of meats and fluid beef, not medicated	\$	196,755	161,879	154,687
Pork, barrelled in brine	lb.	7,380,281	9,394,498	11,770,011
	\$	874,498	1,091,138	1,326,075
Pork, dry salted	lb.	729,539	918,788	1,873,552
	\$	96,302	128,675	253,337
Sausage	lb.	462,473	486,253	588,606
	\$	166,986	174,298	217,511
Soups of all kinds	\$	1,438,667	1,782,108	2,037,057
Other meats, salted, n.o.p.	lb.	38,044	24,864	69,784
	\$	10,159	8,569	23,015
<u>OILS, FATS AND GREASES</u>				
Lard oil	gal.	5,123	7,629	19,863
	\$	5,444	7,660	18,721
Neat's-foot oil	gal.	9,196	9,855	6,672
	\$	10,804	13,694	10,399
Oleo oil	lb.	8,371	13,580	-
	\$	692	1,011	-
Other animal oil, n.o.p.	gal.	97,441	69,855	115,968
	\$	50,117	52,003	81,220

17. Imports into Canada for Consumption of Products of the Slaughtering and Meat Packing Industry, during the calendar years, 1927, 1928 and 1929. Con.

Articles		1927	1928	1929
<u>OILS, FATS AND GREASES - Con.</u>				
Lard	lb.	738,881	1,182,995	297,258
	\$	88,404	130,675	34,848
Lard compound and similar substances, cottonlene and animal stearine of all kinds, n.o.p.	lb.	1,052,930	1,481,447	678,887
	\$	88,178	138,786	65,179
Tallow	lb.	142,222	27,394	28,830
	\$	11,371	2,196	2,012
Grease, rough, the refuse of animal fat, for the manufacture of soap and oils only	cwt.	139,395	114,045	152,282
	\$	1,075,046	973,509	1,273,062
Grease and degreas for stuffing or dressing leather	cwt.	15,940	13,683	11,629
	\$	99,417	87,778	72,981
<u>HIDES AND SKINS</u>				
Calf skins and kids, raw, whether dry, salted or pickled	cwt.	91,535	66,955	66,848
	\$	2,381,942	2,203,760	1,771,737
Cattle skins, raw, whether dry, salted, or pickled	cwt.	515,446	450,060	336,452
	\$	8,592,704	10,593,441	5,386,255
Sheep skins, raw, whether dry, salted or pickled	cwt.	31,613	40,767	36,593
	\$	813,753	1,119,512	1,061,443
<u>BONES, HORNS, ETC.</u>				
Bones, crude	cwt.	3,808	2,259	21,667
	\$	9,251	5,240	44,034
Bone dust, charred bone, bone ash and bone flour	cwt.	48,175	63,936	48,327
	\$	156,192	199,669	152,918
Bone pitch, crude only	cwt.	-	-	308
	\$	2,555	3,400	1,446
Hoofs, horn strips, horn and horn tips, in the rough, not polished or otherwise manufacture than cleaned	\$	1,351	7,675	3,231
<u>HAIR AND BRISTLES</u>				
Bristles, animal	lb.	290,983	278,663	272,564
	\$	381,326	373,556	441,134
Hair, cleaned or uncleaned, not dyed curled or otherwise manufactured	lb.	1,248,051	985,958	2,509,420
	\$	123,162	128,656	266,148

PART I - PERSONAL DATA			
AGE, SEX	DATE OF BIRTH	PLACE OF BIRTH	EDUCATION
18, M	1900	NEW YORK	HIGH SCHOOL
20, F	1902	NEW YORK	HIGH SCHOOL
22, M	1904	NEW YORK	HIGH SCHOOL
24, F	1906	NEW YORK	HIGH SCHOOL
26, M	1908	NEW YORK	HIGH SCHOOL
28, F	1910	NEW YORK	HIGH SCHOOL
30, M	1912	NEW YORK	HIGH SCHOOL
32, F	1914	NEW YORK	HIGH SCHOOL
34, M	1916	NEW YORK	HIGH SCHOOL
36, F	1918	NEW YORK	HIGH SCHOOL
38, M	1920	NEW YORK	HIGH SCHOOL
40, F	1922	NEW YORK	HIGH SCHOOL
42, M	1924	NEW YORK	HIGH SCHOOL
44, F	1926	NEW YORK	HIGH SCHOOL
46, M	1928	NEW YORK	HIGH SCHOOL
48, F	1930	NEW YORK	HIGH SCHOOL
50, M	1932	NEW YORK	HIGH SCHOOL
52, F	1934	NEW YORK	HIGH SCHOOL
54, M	1936	NEW YORK	HIGH SCHOOL
56, F	1938	NEW YORK	HIGH SCHOOL
58, M	1940	NEW YORK	HIGH SCHOOL
60, F	1942	NEW YORK	HIGH SCHOOL
62, M	1944	NEW YORK	HIGH SCHOOL
64, F	1946	NEW YORK	HIGH SCHOOL
66, M	1948	NEW YORK	HIGH SCHOOL
68, F	1950	NEW YORK	HIGH SCHOOL
70, M	1952	NEW YORK	HIGH SCHOOL
72, F	1954	NEW YORK	HIGH SCHOOL
74, M	1956	NEW YORK	HIGH SCHOOL
76, F	1958	NEW YORK	HIGH SCHOOL
78, M	1960	NEW YORK	HIGH SCHOOL
80, F	1962	NEW YORK	HIGH SCHOOL
82, M	1964	NEW YORK	HIGH SCHOOL
84, F	1966	NEW YORK	HIGH SCHOOL
86, M	1968	NEW YORK	HIGH SCHOOL
88, F	1970	NEW YORK	HIGH SCHOOL
90, M	1972	NEW YORK	HIGH SCHOOL
92, F	1974	NEW YORK	HIGH SCHOOL
94, M	1976	NEW YORK	HIGH SCHOOL
96, F	1978	NEW YORK	HIGH SCHOOL
98, M	1980	NEW YORK	HIGH SCHOOL
100, F	1982	NEW YORK	HIGH SCHOOL

17. Imports into Canada for Consumption of Products of the Slaughtering and Meat Packing Industry, during the calendar years 1927, 1928 and 1929 - Concluded

Articles		1927	1928	1929
<u>MISCELLANEOUS ANIMAL PRODUCTS, N.O.P.</u>				
Tankage	cwt. \$	- -	32,334 59,780	30,128 57,307
Gelatine and isinglass	lb. \$	1,213,083 395,937	1,715,035 595,521	1,684,697 643,108
Glue, animal, powdered or sheets	lb. \$	2,821,778 312,195	3,797,761 440,914	4,321,725 482,819
Glue, liquid	\$	66,793	77,763	62,111
Sausage casings or skins, not cleaned	\$	172,436	298,763	227,220
Sausage casings or skins, cleaned	\$	1,964,294	1,999,755	1,192,322
TOTAL VALUE OF IMPORTS of the Slaughtering and Meat Packing Industry.	\$	21,056,136	24,846,225	20,784,315

18. Exports of Products of the Canadian Slaughtering and Meat Packing Industry, during the calendar years 1927, 1928 and 1929.

Articles		1927	1928	1929
<u>MEATS</u>				
Beef, fresh, chilled or frozen	cwt. \$	519,925 6,695,735	459,645 7,234,547	300,825 4,852,181
Game, dressed or undressed	\$	51,040	49,293	48,026
Mutton and lamb, fresh, chilled or frozen	cwt. \$	18,892 386,004	11,278 250,025	5,733 133,302
Pork, fresh, chilled or frozen	cwt. \$	156,462 3,141,440	79,363 1,565,708	39,454 788,760
Poultry, dressed or undressed	lb. \$	- 148,792	- 200,440	425,842 150,318
Bacon and hams, shoulders and sides,	cwt. \$	580,674 12,421,755	413,393 8,722,817	287,727 6,866,646
Beef, pickled, in barrels	cwt. \$	47,493 420,649	11,722 137,745	11,483 178,567
Canned meats, n.o.p.	lb. \$	324,099 122,493	243,003 100,915	190,295 54,665
Fluid extract of beef	lb. \$	51,567 67,104	13,269 32,042	18,963 51,985
Pork, dry salted	cwt. \$	56,924 1,054,351	16,450 303,839	44,018 873,738
Pork, pickled, in barrels	cwt. \$	31,757 528,686	14,335 191,021	16,375 194,039

18. Exports of Products of the Canadian Slaughtering and Meat Packing Industry,
during the calendar years, 1927, 1928 and 1929 -- Concluded

Articles		1927	1928	1929
<u>MEATS - Concluded</u>				
Soups of all kinds	\$	221,732	229,744	346,072
All other meats, n.o.p.	cwt.	105,267	95,132	71,108
	\$	1,034,100	1,226,532	934,044
<u>OILS, FATS AND GREASES</u>				
Meat's-foot and other animal oils, n.o.p.	gal.	192,250	165,375	41,419
	\$	227,387	177,863	37,847
Grease and grease scraps	cwt.	31,931	24,025	23,587
	\$	193,789	130,439	99,999
Lard	cwt.	48,451	10,033	15,041
	\$	675,361	147,207	187,825
Lard compound and substitutes	cwt.	17,104	3,919	2,714
	\$	207,848	52,480	34,286
Tallow	cwt.	23,370	34,723	15,693
	\$	177,134	285,910	126,430
<u>HIDES AND SKINS</u>				
Calf hides and skins	cwt.	100,593	94,510	67,097
	\$	2,047,055	2,511,328	1,375,485
Cattle hides and skins	cwt.	452,582	428,653	427,548
	\$	6,758,253	6,289,231	5,910,007
Sheep hides and skins	cwt.	32,269	20,419	16,682
	\$	586,689	447,713	346,865
<u>BONES, HORNS, ETC.</u>				
Bones, crude	cwt.	48,384	39,433	35,165
	\$	110,013	90,745	88,585
Bone dust and meal	cwt.	2,035	20	40
	\$	3,597	82	149
Horns and hoofs	\$	6,795	12,955	18,108
<u>HAIR</u>				
Hair	\$	551,561	516,407	472,138
<u>MISCELLANEOUS ANIMAL PRODUCTS</u>				
Glue	cwt.	1,721	1,735	1,398
	\$	15,211	17,133	14,756
Glue Stock	cwt.	43,481	29,903	16,434
	\$	54,212	42,489	20,557
Tankage	cwt.	302,159	271,604	275,301
	\$	674,375	617,066	614,921
Sausage casings	\$	1,207,060	1,368,379	1,100,880
TOTAL VALUE OF EXPORTS of Products of the Slaughtering and Meat Packing Industry.	\$	39,790,271	34,952,150	26,223,161

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

1. 1990

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1. The first part of the paper is devoted to the study of the properties of the function $f(x)$ defined by the equation

List of Operators of Slaughtering and Meat Packing
Establishments, Canada.

Name	Address
Prince Edward Island -	
Davis & Fraser	Charlottetown
Roop's, Limited	Charlottetown
Nova Scotia -	
Davis & Fraser	861 Barrington St., Halifax
New Brunswick -	
Berry, A.G.	Sussex
British Canadian Packing Co. Ltd.	Kane's Corner, Saint John
Fenwick, G. Burton	Maple Ave., Sussex
McConnell, Robert	6 Moore Street, Saint John
Slipp & Flewelling, Ltd.	240 Main Street, Saint John
Swift Canadian Co. Ltd.	Albert St. Extension, Moncton
Taylor, Gain B.	220 Bridge Street, Saint John
Wry Pork Packing Co.	Porter Street, St. Stephen
Quebec -	
Ames & Sons, Ltd., Alex	176 Wellington St. S., Sherbrooke
Balley & Son, L., Reg'd.	304 John Street, Quebec
Barter, Elwin	10A Main St. East Angus
Bovril, Ltd.	6201 Park Avenue, Montreal
Canada Packers Ltd.	Montcalm St., Hull ✓
Wm. Davies Co. Ltd.	160 Mill Street, Montreal ✓
Clark, Limited, W.	955 Amherst Street, Montreal
Co-operative Federée de Quebec	130 St. Paul St. East, Montreal
Eastern Abattoirs, Limited	4365 Frontenac Street, Montreal
Hovey Packing Co. Ltd.	Landsdowne Street, Sherbrooke
Labrecque, Jean Baptiste	1850 Church Street, Montreal
La Compagnie S.L. Contant, Ltee	5149 Marquette St., Montreal
McGarry & Co. Geo.	708 St. Paul Street W., Montreal
Masterman, Ltd.	320 Duke Street, Montreal
Picard, Joseph	6680 Des Ecoles St., Montreal
Societe Francaise de Specialites Alimentaires	420 Lagauchetiere St. W., Montreal
Wilsil, Ltd.	P.O. Box 1560, Montreal
Ontario -	
Barber, Chas. W.	100 Wyndham Street, Guelph
Canadian Abattoir	138 St. Helens Ave., Toronto
Canadian Packing Co. Ltd.	148 George Street, Peterborough ✓
Coleman & Co.	First Street, London
Corporation of the City of Toronto	Foot of Tecumseth St., Toronto
Cridland & Sons, Ltd., James	306 Coxwell Avenue, Toronto
Davies Co. Ltd., Wm.	521 Front St. E., Toronto ✓
Duff & Sons, Ltd., John	Brant and Hillyard Streets, Hamilton
Dumarts, Ltd.	Guelph Street, Kitchener
Fearman Co. Ltd., F.W.	226 Rebecca St., Hamilton
Fuller, George	3 Carlaw Avenue, Toronto
Gunns, Ltd.	Cor. Maybank and St. Clair Ave., v Toronto
Harris Abattoir Co. Ltd., The	St. Clair Ave. W., Toronto ✓
Hunnisett, Frank	Tecumseth Street, Toronto
Ideal Pork Products, Ltd.	2nd Ave. E., Owen Sound
Kincardine Packing Co. Ltd., The	Kincardine
Leclair Ltd., O.	353 Clarence St., Ottawa
MacDonald Ltd., Hugh	Hall St., Renfrew

- United States
Department of Justice
Washington, D.C.

1890-1891

List of Operators of the Slaughtering and Meat Packing
Establishments, Canada - Concluded

Name

Address

Ontario - Concluded

Maciver Bros. Co.	174 Keating St., Toronto
Meldrum Company, The	14 Vancouver Ave., Toronto
Moyer Bros. Ltd.	6 Frank Street, St. Catharines
Schneider & Sons Ltd. J.M.	321 Courtland Ave. E., Kitchener
Swift Canadian Co. Ltd.	Keele St. & St. Clair Ave., Toronto
Whyte Packing Co. Ltd., The	Linton Ave., Stratford
Wight & Co. Ltd., Wm.	60 Paton Road, Toronto

Manitoba -

Burns & Co. Ltd.	1010 Logan Ave., Winnipeg
Harris Abattoir (Western) Ltd.	Marion St., St. Boniface ✓
St. Boniface Abattoir, Ltd.	346 Dupuy Street, St. Boniface
Swift Canadian Co. Ltd.	Levis St., Winnipeg
Western Packing Co. of Canada, Ltd. The	1000 Alexander Ave. W., Winnipeg
Winnipeg Packers	Cor. Marion & Dupuy Streets, St. Boniface

Saskatchewan -

Burns & Co. Ltd.	Fifteenth St. E., Prince Albert
Burns & Co. Ltd.	Winnipeg St. Cor. 10th Ave. Regina
Swift Canadian Co. Ltd.	Lillooet St. W., Moose Jaw

Alberta -

Burns & Co. Ltd.	Calgary
Burns & Co. Ltd.	120 Ave., Edmonton
Gainers, Limited	Cor. 80th Ave. & 96th St., Edmonton
Swift Canadian Co. Ltd.	North Edmonton
Union Packing Co. Ltd.	Nose Creek, Calgary
Wonnacott, Ltd., Ira	Box 463, Edmonton

British Columbia -

Burns & Co. Ltd.	Foot of Woodland Drive, Vancouver
National Packers Ltd.	241 Northern St., Vancouver
Pacific Meat Co. Ltd.	8950 Shaugnessy St., Vancouver
Reid Bros.	1901-1st Ave. W., Vancouver
Reid, James I.	559 Granville St., Vancouver
Swift Canadian Co. Ltd.	Brunette St., New Westminster

