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# THE MACARONI AND KINDRED PRODUCTS INDUSTRY

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## PUBLICATIONS

The results of the annual Census of Industry are published by the Dominion Bureau of Statistics in a series of industry reports which are released each year as the compilations are completed. Reports for industries in the **Foods, Beverages and Tobacco** Major Group are listed below, along with current and annual publications of related interest. Similar reports are issued for other industries. A complete catalogue of publications of the Bureau is available on request from the Information Services Division, Dominion Bureau of Statistics, Ottawa, or from the Queen's Printer, Ottawa.

Catalogue number		Per copy	Per year	Catalogue number		Per copy	Per year
<b>General</b>				<b>Dairy Products</b>			
32-201	Foods and Beverages - General Review .....	\$ .50		23-201	Dairy Statistics .....	\$ .50	
31-001	Inventories, Shipments and Orders in Manufacturing Industries .....		\$4.00	32-002	Dairy Factory Production (Monthly) .....	.10	\$1.00
31-201	General Review of the Manufacturing Industries .....		2.00	32-009	Stocks of Dairy and Poultry Products (Monthly) .....	.20	2.00
65-004	Trade of Canada - Exports (Monthly) .....		7.50	32-209	Dairy Products Industries .....	.75	
65-007	Trade of Canada - Imports (Monthly) .....		7.50	32-210	Process Cheese Industry .....	.25	
<b>Bakery Products</b>				<b>Grain Mill Products</b>			
32-202	Biscuit Industry .....	.50		32-003	Grain Milling Statistics (Monthly) .....	.10	1.00
32-203	Bread and Other Bakery Products Industry .....	.50		32-004	Shipments of Prepared Stock and Poultry Feeds (Monthly) .....	.30	3.00
<b>Beverages</b>				32-204	Prepared Breakfast Foods Industry .....	.25	
32-001	Monthly Production of Carbonated Beverages .....	.10	1.00	32-214	Feeds Industry .....	.50	
32-205	Brewing Industry .....	.50		32-215	Flour Milling Industry .....	.50	
32-206	Distilling Industry .....	.50		<b>Meat Products</b>			
32-207	Wine Industry .....	.25		32-012	Stocks of Meat and Lard (Monthly) .....	.30	3.00
32-208	Carbonated Beverages Industry .....	.50		32-220	Estimates of Production and Consumption of Meats .....	.25	
<b>Canning and Preserving</b>				32-221	Slaughtering and Meat Packing Industries .....	.50	
22-003	Fruit and Vegetable Crop Reports (Seasonal) .....	.20	1.00	<b>Other Food Industries</b>			
24-001	Fish Freezings and Stocks (Monthly) .....	.20	2.00	32-005	Margarine Statistics (Monthly) .....	.10	1.00
24-002	Monthly Review of Canadian Fisheries Statistics .....	.30	3.00	32-006	Oils and Fats (Monthly) .....	.10	1.00
24-201	Fisheries Statistics of Canada .....	.75		32-007	Quarterly Report on Processed Foods .....	.50	2.00
32-010	Stocks of Fruit and Vegetables (Monthly) .....	.20	2.00	32-013	Sugar Situation (Monthly) .....	.10	1.00
32-011	Quarterly Stocks of Canned Fruits and Vegetables on Hand .....	.50	2.00	32-213	Confectionery Industry .....	.50	
32-211	Canned Foods Summary .....	.50		32-219	Macaroni and Kindred Products Industry .....	.25	
32-212	Canned and Frozen Processed Foods .....	.25		32-222	Sugar Refining Industry .....	.50	
32-216	Fish Processing Industry .....	.50		32-223	Vegetable Oils Industry .....	.50	
32-217	Stocks of Food Commodities in Cold Storage and Other Warehouses .....	.50		32-224	Miscellaneous Food Preparations Industry .....	.50	
32-218	Fruit and Vegetables Preparations Industry .....	.50		<b>Tobacco and Tobacco Products</b>			
				22-205	Leaf Tobacco Production and Value .....	.25	
				32-014	Quarterly Stocks and Consumption of Unmanufactured Tobacco .....	.50	2.00
				32-225	Tobacco and Tobacco Products Industries .....	.50	

**Note:** In addition, several special statements are available. These include Monthly Meat Products, Monthly Stocks of Canned Foods, Monthly Production of Alfalfa Meal, Quarterly Bread and Bakery Products, 20 Seasonal Commodity Reports of Canned Fruits and Vegetables including Irish Potatoes.

Remittances should be in the form of cheque or money order, made payable to the Receiver General of Canada and forwarded to the Information Services Division, Dominion Bureau of Statistics, or to the Queen's Printer, Ottawa, Canada.



## EXPLANATORY NOTES

This report is one in a series of about 130 publications which present the results of the 1959 Census of Manufactures. Most reports in this series refer to specific industries, but there are summary reports for Canada and the provinces and for major industry groups. An annual Census of Manufactures has been carried out by the Dominion Bureau of Statistics since 1916.

Industry statistics given in these reports refer to number of establishments, employees, salaries and wages, cost of materials, supplies, fuel and electricity, gross value of shipments, inventories and value added by manufacturing. Details of materials used and products shipped are also given. Descriptions of the principal industry statistics, with special reference to 1959 are as follows:

### Period Covered

Firms are asked to submit figures for the calendar year, if at all possible, and most reports are on this basis. Financial year reports for periods differing from the calendar year are accepted in instances where the firms find it impossible to supply calendar year data from accounting records. However the data on employees, salaries and wages are requested on a calendar year basis in all cases.

### Establishment

Data for the annual census is collected on an establishment basis. A firm with more than one plant is required to file a report for each plant. In most cases an establishment is a complete factory. Sometimes, however, a plant is divided into two or more establishments when it carries out operations classifiable to different industries and when separate accounting records are available. Usually the statistics for an establishment relate only to the manufacturing activities. Other activities such as construction at the plant by its own employees, wholesale or retail activities carried on at the plant location, etc., are not included. Plants engaged solely in repair work (except in the case of furniture, shipbuilding, boat building, aircraft and railway rolling stock industries) are not included but plants occupied in assembling parts into complete units are included.

### Employees

Administrative and office employees include all executives and supervisory officials such as presidents, vice-presidents, secretaries, treasurers, etc., together with managers, professional and technical employees, superintendents and factory supervisors above the working foremen level and clerical employees. Working owners and partners are also included in this category.

Production and related workers include all other factory workmen whether paid on a monthly, weekly, hourly or piece-work basis. Working foremen doing work similar to that of the employees they supervise are included, as are maintenance, warehousing and delivery staffs. Employees on new construction work, in retail or wholesale operations, on outside piece work etc., are not included.

Production workers are reported by months, an average for the year being obtained by summing the monthly figures and dividing by twelve. This procedure is followed even though the plant did not operate in all months. Figures on employment refer to calendar years whether or not some establishments reported other data on a financial year basis.

### Salaries and Wages

Salaries and wages refer to gross earnings of the employees described above, including salaries, wages, commissions, bonuses, the value of room and board where provided, deductions for income tax and social services such as sickness and unemployment insurance, pensions, etc., as well as any other allowances forming part of the employees' wages. Payments for overtime are included.

Salaries refer to amounts paid to administrative and office employees. Withdrawals by working owners or partners for normal living expenses for self and family are included but not their withdrawals for income tax. Wages refer to the amounts paid to production and related workers as defined above. Data on earnings refer to the calendar year whether or not some establishments reported other data on a financial year basis.

### Cost of Fuel and Electricity

Figures for fuel refer to amounts actually used, (including fuel used in cars and trucks), not to purchases unless the quantities are the same. Values refer to the laid-down cost at the works, including freight, duty, etc.

### Materials and Supplies Used

Figures represent quantities and laid-down cost values, at the works, of materials and supplies actually used during the year whether purchased from others or received as transfers from other plants of the reporting company. Amounts paid to other manufacturers for work done on materials owned by the reporting company are included. Returnable containers or any other items charged to capital account are not included. Fuels are not included. Goods bought from others or received as transfers from other plants of reporting companies for resale without further processing are not included. Maintenance and repair supplies not chargeable to capital account are included.

### Factory Shipments

Factory shipments refer to shipments of goods made from own materials either in the reporting plant or by other manufacturers on the basis of a charge to the reporting plant for work done. All products and by-products shipped from the establishment are included whether for domestic use, export, or for government departments. Transfer shipments to sales outlets, distributing warehouses or to other manufacturing units of the reporting firm are included. Goods bought or received as transfers and resold without further processing are not included. Values are computed on f.o.b. plant or



plant warehouse basis, and do not include sales tax or excise duties. Values of containers not returnable are included. Amounts received in payment for work done on materials owned by others are included.

In a few industries such as shipbuilding, aircraft, etc., where work on principal products extend over a relatively long period, the value of production is recorded rather than the value of shipments. For those industries production is computed from the value of deliveries of complete units during the year plus the value of work done during the year on unfinished units less the value of work done in previous years on finished units delivered in the year under review.

### **Inventories**

Values represent the book values of manufacturing inventories owned and held at the reporting plant. Figures include inventories held in warehouses or selling outlets which have been included with plant operations for purposes of reporting shipments.

### **Value Added by Manufacturing**

Figures are computed from value of shipments plus or minus changes in inventories of finished goods and goods in process less cost of materials, fuel and electricity. This figure is sometimes referred to as net production.<sup>1</sup>

### **Standard Industrial Classification**

The Standard Industrial Classification Manual, prepared by the Dominion Bureau of Statistics, provides for 135 three-digit industries in the manufacturing sector, arranged in 17 major groups. Reporting establishments are classified or allotted to specific industries on the basis of the value of principal products made or shipped.

### **Short Forms**

Between 1949 and 1957, in an effort to ease the reporting burden for smaller firms, a short form was used asking for the total value of shipments only or, in a few cases where losses of detail were significant, for quantities and values of principal products. For purposes of publication, missing data were estimated on the basis of appropriate ratios. In general the cut-off point for these short forms was set at \$50,000 value of shipments. About 40% of the total number of establishments reported on the short form and accounted for less than 3 per cent of the total value of shipments.

In 1958, in order to establish a new base year, the small firms were asked to report all items of principal statistics together with some detail on materials and products.

<sup>1</sup> To arrive at the National Accounts concept of "gross domestic product at factor cost", it would be necessary to subtract also the cost of office supplies used, advertising, insurance and other goods and services obtained from other businesses. Data on these inputs are not collected on the annual Census of Manufactures. Value added figures for "The primary industries and construction" are published in D.B.S. publication 61-202, *Survey of Production*.

For the 1959 Census, the short form was used again, but further steps were taken to ease the respondents' burden. First, the general limit for short forms was raised to \$100,000 value of shipments. In addition, a new intermediate form was developed. This form is a shortened version of the long form in that most of the general questions were pared down and the detailed lists of materials and products were limited to the more important items. The general limits for firms in this category were set at between \$100,000-\$500,000 value of shipments, but in the case of both the short and intermediate forms there were lower cut-offs for a number of industries in which the smaller firms accounted for a larger share of total shipments. On the other hand, limits were raised where this could be done without a significant loss of coverage. On most of the short forms for 1959, in addition to total value of shipments, data on principal products were requested. In a few industries, where loss of employment and earnings data were considered too large because of higher cut-offs, a question on total payroll was placed on the short form.

The intermediate and long forms provide complete data for the compilation of all elements of principal industry statistics and the details of materials and products. The one-page short form, although containing data on principal products and total value of shipments, does not request information on other elements of principal statistics such as value of inventories, materials, fuel and electricity and, in most cases, employment and salaries and wages, nor does it contain detailed data on volume and value of materials used. For purposes of compiling aggregates of principal statistics by industry and by geographic location, the missing data for each establishment were estimated for 1959 by using, in general, ratios based on the change in the value of shipments between 1958 and 1959. The proportion of the estimated data was generally less than 5 per cent of the total in each category of principal statistics.

The general request for the principal items of products on the short form for 1959 permitted a fairly complete compilation of the detailed quantities and values of commodity shipments. In the case of the detailed quantities and values of materials, fuel and electricity, however, and the monthly distribution of production workers, only the totals of data actually reported on the intermediate and long forms are contained in published reports and no attempt was made as in past years to estimate the generally small proportion of individual totals represented by detailed items omitted from the short forms.

The new approach has relieved an additional 12,000 establishments from filling out the regular long form. Establishments now receiving the short form number in excess of 20,000 and account for more than 54 per cent of the total number of establishments and a little more than 3 per cent of the total value of shipments.

# THE MACARONI AND KINDRED PRODUCTS INDUSTRY 1959

Beginning in 1952, the Bureau changed its policy with regard to the collection of statistics on the production of manufactured goods. Firms in several industries, where year-end inventory changes were known to be insignificant, were requested to report value of shipments f.o.b. plant instead of gross value of production. This changeover should result in better consumption data and should, eventually, provide industry with better statistics for economic analysis.

The statistics in this report cover plants engaged in the production of dry macaroni, spaghetti, noodles, etc. for sale as such. Canned macaroni, etc. (with cheese or tomato sauce) is produced mainly in the Fruit and Vegetable Preparations Industry.

The shipments of macaroni, spaghetti, vermicelli, noodles, etc. in this industry in 1959 amounted to 109,911,616 pounds with a selling value of \$15,139,874 while in 1958 shipments totalled 112,849,207 pounds valued at \$14,657,601. In addition there was a small quantity made in other industries.

There were eighteen establishments operating in the industry in 1959. These were distributed by

provinces as follows: Ontario 7, Quebec 5, British Columbia 3, Manitoba 2, and Alberta 1. These plants reported a total employment of 761 persons who received \$2,341,219 in salaries and wages. The cost of raw materials amounted to \$8,690,387.

The tables which follow give detailed statistics of production or shipments, employment, materials used, imports, and exports. Beginning in 1954 statistics were collected on opening and closing inventory values at each plant. The results have been summarized and are shown in Table 2.

In 1954, value of factory shipments replaced value of production and opening and closing inventory valuations were collected for the first time. For 1954 and 1955 value of production was computed by using the value of shipments plus or minus the change in finished goods inventories. For 1956 and later years the change in goods in process inventory was also taken into account. When value of production was thus determined, value added by manufacture was arrived at by subtracting cost of raw materials and of fuel and electricity. The following table on principal statistics for the period 1951-59 inclusive illustrates this procedure.

Year	Value of factory shipments	Change in inventory	Value of production	Cost of materials	Cost of fuel and electricity	Value added by manufacture <sup>1</sup>
thousands of dollars						
1951 <sup>2</sup> .....	..	—	8,064	4,439	124	3,501
1952 .....	8,536	—	—	4,588	139	3,810
1953 .....	8,125	—	—	4,787	146	3,191
1954 .....	9,385	- 1	9,384	5,942	130	3,312
1955 .....	9,897	+ 77	9,974	5,971	157	3,846
1956 .....	12,022	+105	12,127	6,712	192	5,223
1957 .....	13,294	- 52	13,242	6,995	208	6,038
1958 .....	15,851	- 77	15,775	8,746	218	6,811
1959 .....	16,385	+ 55	16,440	8,690	247	7,503

<sup>1</sup> Historical series on "Value added by manufacture" included in Table 1.

<sup>2</sup> Previous years were computed as in 1951.

.. Figures not available.



**TABLE 1. Principal Statistics of the Macaroni and Kindred Products Industry, Significant Years 1926-57 and by Provinces 1958 and 1959<sup>1</sup>**

Year and province	Estab- lish- ments	Em- ployees	Salaries and wages	Fuel and electricity	Cost at works of materials used	Value added by manufacture <sup>2</sup>	Gross selling value of shipments <sup>3</sup>
	number				dollars		
1926 .....	11	317	250,469	28,937	960,373	571,200	1,560,510
1932 .....	14	206	199,975	36,161	560,734	456,694	1,053,589
1939 .....	16	398	348,287	58,225	929,957	1,019,839	2,008,021
1941 .....	17	430	405,659	78,649	1,141,376	721,801	1,941,826
1943 .....	16	585	651,904	104,797	1,736,032	1,324,838	3,165,717
1944 .....	13	494	660,727	90,702	1,418,347	1,095,916	2,604,965
1947 .....	18	703	1,133,224	112,133	3,468,816	2,382,209	5,963,158
1948 .....	17	676	1,289,074	120,986	4,827,220	2,805,352	7,753,558
1949 .....	16	552	1,104,316	97,604	3,423,153	2,382,376	5,903,133
1950 .....	16	554	1,147,773	109,356	4,006,110	2,985,477	7,100,943
1951 .....	15	571	1,259,310	123,986	4,438,767	3,501,282	8,064,035
1952 .....	13	558	1,397,762	138,776	4,587,616	3,809,928	8,536,320
1953 .....	14	553	1,399,242	146,364	4,787,233	3,191,101	8,124,698
1954 .....	14	609	1,573,338	129,908	5,941,868	3,311,813	9,384,765
1955 .....	17	672	1,758,135	156,629	5,971,292	3,846,453	9,896,911
1956 .....	17	658	1,875,760	192,094	6,711,530	5,222,770	12,021,712
1957 .....	18	692	1,824,635	208,379	6,995,205	6,038,101	13,293,796
1958							
Canada .....	19	778	2,186,790	217,713	8,746,196	6,811,026	15,851,237
Ontario .....	7	224	720,782	66,065	3,939,775	1,908,312	5,988,067
Quebec .....	6	429	1,178,090	121,139	3,416,307	3,655,961	7,291,024
British Columbia .....	3	34	52,498	5,217	135,368	82,286	211,613
Other provinces .....	3	91	235,420	25,292	1,254,746	1,164,467	2,360,533
1959							
Canada .....	18	761	2,341,219	246,716	8,690,387	7,503,079	16,385,142
Ontario .....	7	257	862,055	89,687	3,847,439	2,351,747	6,284,684
Quebec .....	5	381	1,150,677	123,520	3,514,593	3,774,290	7,285,428
British Columbia .....	3	27	46,273	4,663	107,829	58,836	177,720
Other provinces .....	3	96	282,214	28,846	1,220,526	1,318,206	2,637,310

<sup>1</sup> Profits or losses cannot be estimated from Census figures as no data are collected for expense items, such as interest, rent, depreciation, taxes, insurance, advertising, etc.

<sup>2</sup> See text.

<sup>3</sup> Prior to 1952 the basis of collection was gross value of products instead of gross value of shipments.

**TABLE 2. Inventory Values 1959**

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total inventory
	dollars			
Opening inventory: <sup>1</sup>				
Ontario .....	469,608	3,412	160,959	633,979
Quebec .....	198,008	—	133,651	331,659
British Columbia .....	67,939	221	18,790	86,950
Other provinces .....	88,428	1,628	149,720	239,776
Canada .....	823,983	5,261	463,120	1,292,364
Closing inventory:				
Ontario .....	623,383	2,493	166,067	791,943
Quebec .....	245,381	—	260,626	506,007
British Columbia .....	44,937	207	12,412	57,556
Other provinces .....	123,369	4,617	76,999	204,985
Canada .....	1,037,070	7,317	516,104	1,560,491

<sup>1</sup> The opening inventory values for 1959 differ from the closing inventory published for 1958 because of transfers, discards, corrections, and addition of new firms. The figure for value added by manufacture for the previous years does not need to be altered because of such changes.

TABLE 3. Capital and Repair Expenditures, 1948-59

(Figures prepared in Business Finance Division)

	Capital expenditures			Repair expenditures			Capital and repair expenditures		
	Con- struction	Machinery and equipment	Sub- total	Con- struction	Machinery and equipment	Sub- total	Con- struction	Machinery and equipment	Total
	thousands of dollars								
1948 .....			299			195			494
1949 .....			355			122			477
1950 .....		Breakdown not available	209		Breakdown not available	108		Breakdown not available	317
1951 .....			172			126			298
1952 .....			241			209			450
1953 .....			395			186			581
1954 .....	<sup>1</sup>	311	<sup>1</sup>	<sup>1</sup>	161	<sup>1</sup>	<sup>1</sup>	472	540
1955 .....	<sup>1</sup>	680	<sup>1</sup>	<sup>1</sup>	161	<sup>1</sup>	259	841	1,100
1956 .....	<sup>1</sup>	243	<sup>1</sup>	<sup>1</sup>	167	<sup>1</sup>	129	410	539
1957 .....	507	1,633	2,140	<sup>1</sup>	201	201	507	1,834	2,341
1958 .....	183	762	945	<sup>1</sup>	230	230	183	992	1,175
1959 <sup>p</sup> .....	—	892	892	<sup>1</sup>	<sup>1</sup>	296	<sup>1</sup>	<sup>1</sup>	1,188

<sup>1</sup> Fewer than three establishments reporting<sup>p</sup> Preliminary figures.TABLE 4. Factory Shipments from plant in the Macaroni and Kindred Products Industry, 1942-59<sup>1</sup>

Year	Macaroni, spaghetti, vermicelli, noodles, etc., dry		Other products
	Quantity	Selling value at factory	Value only
	pounds	\$	\$
1942 .....	48,957,265	2,251,346	51,388
1943 .....	60,435,568	3,084,629	81,088
1944 .....	44,425,263	2,484,416	120,549
1945 .....	62,355,790	3,560,247	242,284
1946 .....	78,558,447	4,998,033	248,902
1947 .....	79,255,918	5,811,027	152,131
1948 .....	83,130,860	7,629,818	123,740
1949 .....	57,810,831	5,773,372	129,761
1950 .....	63,081,248	6,893,776	207,167
1951 .....	67,371,252	7,802,354	261,681
1952 .....	66,775,308	8,231,688 <sup>1</sup>	304,632
1953 .....	69,151,488	7,883,198	241,500
1954 .....	73,866,534	8,850,030	534,735
1955 .....	78,903,917	9,396,917	499,994
1956 .....	90,074,101	11,123,911	897,801
1957 .....	89,867,067	12,147,334	1,146,462
1958 .....	112,849,207	14,657,601	1,193,636
1959 .....	109,911,616	15,139,874	1,245,268

<sup>1</sup> Prior to 1952 the basis of collection was gross value of production instead of gross value of shipments. Provincial breakdown not available.

TABLE 5. Materials Used in the Macaroni and Kindred Products Industry, 1958 and 1959

Materials	1958		1959	
	Quantity	Cost value	Quantity	Cost value
		\$		\$
Flour, all kinds (including semolina) ..... lb.	116,381,866	5,573,629	113,811,290	5,304,746
Eggs, in shell ..... doz.	164,400	74,405	683,015	316,250
Eggs, frozen ..... lb.	286,158	88,924		
Egg powder ..... "	306	438	—	—
Milk powder ..... "	2,130	309	1,300	169
Salt ..... "	89,467	2,140	72,929	1,148
Sugar ..... "	84,792	6,718	65,314	4,307
Colouring ..... "	1,438	4,354	4,494	10,966
Oils and shortenings ..... "	250,316	53,812	208,175	53,452
Containers ..... —	—	1,971,991	—	2,181,099
All other materials ..... —	—	969,476	—	818,250
<b>Total cost of materials used<sup>1</sup> .....</b>	<b>—</b>	<b>8,746,196</b>	<b>—</b>	<b>8,690,387</b>

<sup>1</sup> Does not include office supplies which amounted to \$15,853 in 1958 and \$18,724 in 1959

TABLE 6. Employees, Salaries and Wages, by Provinces, 1958 and 1959

	Average					Salaries and wages		
	Supervisory and office employees		Production workers		Total	Supervisory and office employees	Production workers	Total
	Male	Female	Male	Female				
	number					dollars		
1958								
Canada .....	77	45	423	233	778	584, 337	1, 602, 453	2, 186, 790
Ontario .....	17	7	104	96	224	181, 553	539, 229	720, 782
Quebec .....	54	32	248	95	429	363, 018	815, 072	1, 178, 090
British Columbia .....	3	4	16	11	34	12, 131	40, 367	52, 498
Other provinces .....	3	2	55	31	91	27, 635	207, 785	235, 420
1959								
Canada .....	69	41	398	253	761	598, 873	1, 742, 346	2, 341, 219
Ontario .....	17	10	114	116	257	179, 378	682, 677	862, 055
Quebec .....	46	26	214	95	381	375, 971	774, 706	1, 150, 677
British Columbia .....	3	3	12	9	27	13, 838	32, 435	46, 273
Other provinces .....	3	2	58	33	96	29, 686	252, 528	282, 214



TABLE 7. Production Workers, by Months, 1959

	Establishments reporting monthly detail <sup>1</sup>	
	Male	Female
January .....	321	230
February .....	368	253
March .....	374	246
April .....	367	227
May .....	376	225
June .....	362	205
July .....	159	142
August .....	382	258
September .....	388	252
October .....	393	280
November .....	396	268
December .....	389	266
Average for establishments reporting monthly detail .....	362	238
Average estimated for small establishments <sup>2</sup> .....	36	15
Average for all establishments .....	398	253

<sup>1</sup> The number of production workers, by months, was collected only for establishments generally reporting value of shipments of \$200,000 and over.

<sup>2</sup> For establishments generally reporting value of shipments of less than \$200,000, no data on number of workers were collected. Average was estimated by using change in value of shipments to arrive at value of payroll which was then used in conjunction with estimated average earnings to arrive at number of workers.

TABLE 8. Imports and Exports of Macaroni, Spaghetti and Vermicelli, 1944-59

	Exports				Imports	
	Macaroni, spaghetti and vermicelli				Macaroni, spaghetti and vermicelli	
	Canned		Not canned			
	pounds	\$	pounds	\$	pounds	\$
1944 .....	873,407	67,210	2,487,365	201,480	6,480	546
1945 .....	1,779,731	135,112	7,360,814	559,545	620	135
1946 .....	3,355,382	262,094	19,598,929	1,426,084	5,162	4,001
1947 .....	5,522,022	450,085	15,407,298	1,610,705	29,239	16,109
1948 .....	1,386,111	154,836	29,929,436	3,386,317	656	235
1949 .....	349,924	36,445	2,127,590	238,802	64,368	28,165
1950 .....	171,419	18,312	1,656,981	127,009	45,035	12,762
1951 .....	423,534	47,008	2,164,784	253,012	170,425	47,810
1952 .....	238,883	27,719	2,760,614	336,934	1,320,082	225,311
1953 .....	186,893	20,851	2,593,425	321,600	1,520,436	254,029
1954 .....	249,293	29,154	2,585,131	309,990	1,270,975	202,558
1955 .....	225,008	30,217	2,557,992	310,599	1,316,684	213,780
1956 .....	266,542	32,562	2,987,485	352,818	1,566,969	252,241
1957 .....	177,454	22,902	3,340,953	396,856	1,958,384	310,557
1958 .....	217,807	31,671	3,661,143	460,391	2,150,247	331,357
1959 .....	211,200	29,193	4,767,258	675,171	4,049,892	572,281

TABLE 9. Fuel Consumption, 1959

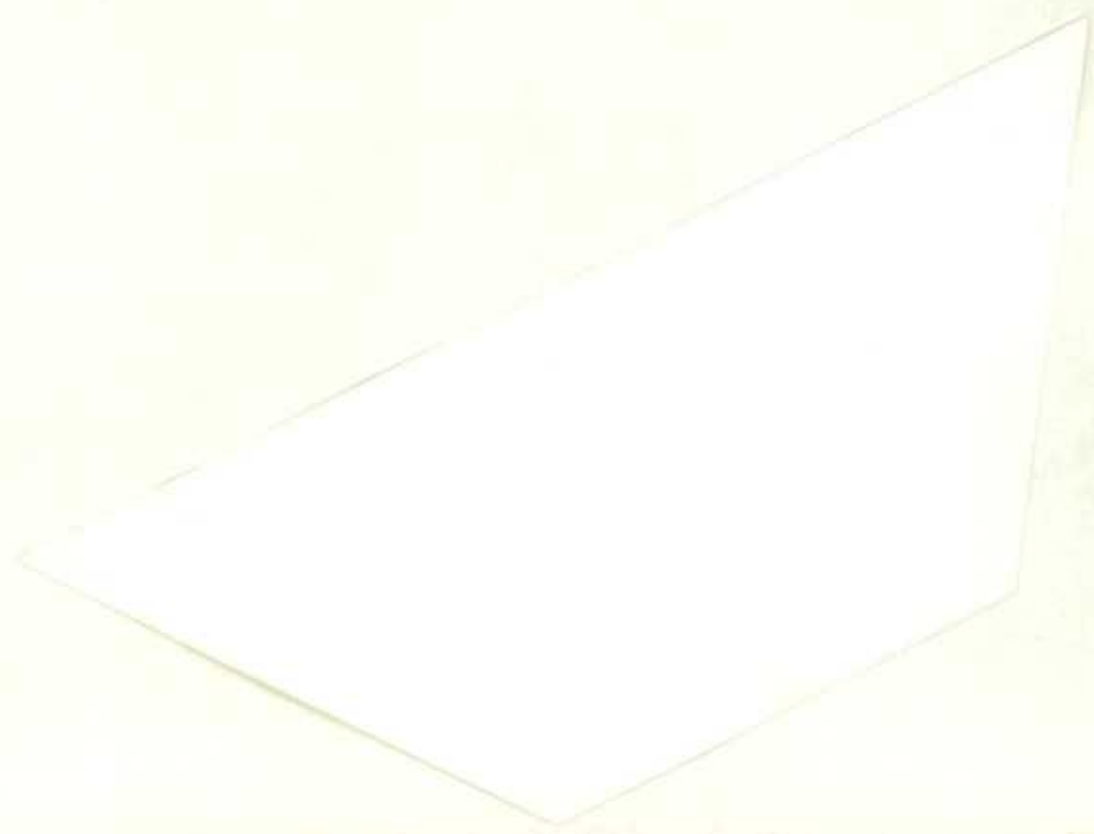
Kind	Quantity	Cost at plant \$
Establishments reporting commodity detail: <sup>1</sup>		
Bituminous coal:		
(a) From Canadian mines .....	ton 732	8,652
(b) Imported .....	—	—
Sub-bituminous coal (from Alberta mines only) .....	—	—
Anthracite coal .....	—	—
Lignite coal .....	ton 245	2,029
Coke .....	—	—
Gasoline (including gasoline used in cars and trucks) .....	Imp. gal. 100,418	41,316
Fuel oil including kerosene or coal oil .....	" 1,244,519	106,843
Wood .....	—	—
Gas (a) Liquefied petroleum gases .....	—	—
(b) Other manufactured gas .....	—	—
(c) Natural gas .....	M cu. ft. 17,845	5,197
Other fuel .....	—	—
Electricity purchased .....	kwh. 7,833,800	71,472
Steam purchased .....	—	—
Estimate for establishments for which no data were collected: <sup>2</sup>		
Cost of fuel and electricity .....	—	11,207
All establishments:		
Total cost of fuel and electricity .....	—	246,714

<sup>1</sup> Establishments generally reporting value of shipments of \$200,000 and over.<sup>2</sup> Establishments generally reporting value of shipments of less than \$200,000.

## List of Firms in the Macaroni and Kindred Products Industry, 1959

Name of firm	Plant address
Catelli Food Products Limited .....	6890 Notre Dame St. E., Montreal, Que.
Chong Wah Noodle Mfg. Co. Reg'd. ....	1077 Clark St., Montreal, Que.
Mafaldo Barbieri .....	6790 St. Lawrence Blvd., Montreal, Que.
Magnani Frères .....	9245 Blvd. Lajeunesse, Montreal, Que.
Wing Noodles Ltd. ....	1072 St. Urbain St., Montreal, Que.
Better Bakers .....	370 College St., Toronto, Ont.
Canada Food Products .....	225 Sterling Road, Rear, Toronto 3, Ont.
Catelli Food Products Ltd. ....	Yarmouth Rd., St. Thomas, Ont.
Naples Macaroni Co. Ltd. ....	51 Stuart St. W., Hamilton Ont.
Ontario Macaroni Co. Ltd. ....	220 Norseman St., Toronto 18, Ont.
Primo Macaroni Mfg. Co. ....	56 Manser Road, Weston, Ont.
Toronto Macaroni and Imported Foods Ltd. ....	60 Hook Ave., Rear, Toronto 9, Ont.
Constant Macaroni Products .....	254 rue Dumoulin, St. Boniface, Man.
The Creamette Co. of Canada Ltd. ....	283 Stanley St., Winnipeg 2, Man.
Catelli Food Products Ltd. ....	104-13th Ave., N., Lethbridge, Alta.
Famous Foods Ltd. ....	1315 East Hastings St., Vancouver 6, B.C.
Jimmy's Food Products .....	4295 Main St., Vancouver 10, B.C.
Northwest Food Products Ltd. ....	433 East Georgia St., Vancouver 4, B.C.





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