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THE MISCELLANEOUS NON-FERROUS METAL PRODUCTS INDUSTRY

1959

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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 classified to the **Non-ferrous Metal Products** 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.

A — Annual

M — Monthly

Q — Quarterly

Catalogue number	Title	Price
41-202	Non-ferrous Metal Products — General Review (A)50
41-204	The Aluminum Products Industry (A)50
41-206	The Brass and Copper Products Industry (A)50
41-215	The White Metal Alloys Industry (A)50
41-211	The Jewellery and Silverware Industry (A)50
41-214	The Smelting and Refining Industry (A)50
41-218	The Miscellaneous Non-ferrous Metal Products Industry (A)25
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41-007	Non-ferrous Scrap Metal and Secondary Non-ferrous Ingot (Q)	per year 1.00
31-201	General Review of the Manufacturing Industries (A)	2.00
31-001	Inventories, Shipments and Orders in Manufacturing Industries (M)	per year 4.00
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SYMBOLS

The interpretation of the symbols used in the tables throughout this publication is as follows:

... figures not appropriate or not applicable.

— nil or zero.

* preliminary figures.

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.¹

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.

¹ 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 MISCELLANEOUS NON-FERROUS METAL PRODUCTS INDUSTRY

1959

The industry for which statistics are presented in this bulletin covers the operations of a miscellaneous group of concerns which cannot properly be classified to any of the other industries included in the manufactures of the non-ferrous metal group.

In 1959 there were 32 plants included in this group, 18 being located in Ontario, 10 in Quebec, 2 in Manitoba and 2 in British Columbia. Factory shipments from these factories were valued at \$17,499,279; the number of employees was 1,059; payments for salaries and wages totalled \$4,496,329 and the cost of materials for use in manufacturing processes was \$7,939,441.

Output included electroplating supplies, weatherstrip, railway and marine lamps and lanterns, window screens, name plates, metallic packing, stellite, etc. Output of weatherstrip amounted to

\$417,452 compared with \$375,418 in 1958. Figures for the other commodities cannot be published as there were only one or two producers in each case.

Note: Due to lack of inventory data, figures for valued added by manufacture prior to 1954 were obtained by subtracting the cost of materials used, including fuel and electricity, from the total value of factory shipments. In 1954 and 1955 the "Value added" adjustment incorporated the increase or decrease to shipments values resulting from changes in the value of inventories over the period. For these two years, the adjustments that were made used only the change in finished product inventory owned by manufacturers. Beginning with 1956 the calculation of the "Value added" figure was further adjusted to take into account the "Goods in process" as well as the finished goods held at plant or plant warehouse.

**TABLE 1. Principal Statistics of the Miscellaneous Non-ferrous Metal Products Industry,
Significant Years 1929 - 59, and by Provinces, 1958 and 1959**

Year and province	Estab- lish- ments	Em- ployees	Salaries and wages	Cost of fuel and electricity at plant	Cost of materials at plant	Value added by manufacture ¹	Gross selling value of products ¹
	number				dollars		
1929	17	236	345,245	11,326	317,130	787,597	1,116,053
1931	19	150	211,595	9,142	130,806	340,240	480,188
1937	19	361	433,403	14,265	552,909	1,038,913	1,606,087
1939	19	395	471,222	15,609	415,902	1,508,904	1,940,415
1942	25	926	1,343,807	39,308	1,907,811	4,803,873	6,750,992
1949	18	686	1,605,307	69,339	1,768,060	2,670,102	4,507,501
1954	23	536	1,717,996	110,952	2,835,061	3,165,981	6,148,876
1955	26	729	2,444,440	115,447	3,862,843	4,489,036	8,403,307
1956	30	1,103	4,421,722	261,328	7,335,302	7,854,003	15,047,787
1957	34	1,341	5,383,649	319,022	9,983,138	9,268,243	19,263,253
1958							
Quebec	13	105	355,840	22,231	394,582	515,520	933,881
Ontario	15	996	4,527,985	250,480	8,219,849	7,380,007	15,860,443
Manitoba	2	38	152,134	16,601	239,437	133,722	271,346
British Columbia	3						
Canada	33	1,139	5,035,959	289,312	8,853,868	8,029,249	17,065,670
1959							
Quebec	10	97	333,488	21,132	401,711	615,719	1,027,230
Ontario	18	924	3,993,705	242,937	7,258,691	7,876,625	15,981,908
Manitoba	2	38	169,136	20,838	279,039	294,043	490,141
British Columbia	2						
Canada	32	1,059	4,496,329	284,907	7,939,441	8,786,387	17,499,279

¹ See note to text.

Note: Profits or losses cannot be calculated from the above figures as data are not available for general expense items, such as interest, rent, depreciation, taxes, insurance, advertising, etc.

TABLE 2. Inventories,¹ 1959

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
dollars				
Opening:				
Quebec	92,552	20,926	129,189	242,667
Ontario	1,741,928	1,102,217	662,033	3,506,178
Manitoba and British Columbia	234,472	30,130	166,544	431,146
Canada	2,068,952	1,153,273	957,766	4,179,991
Closing:				
Quebec	82,104	16,327	145,120	243,551
Ontario	1,357,647	642,095	518,500	2,518,242
Manitoba and British Columbia	312,001	52,605	247,848	612,454
Canada	1,751,752	711,027	911,468	3,374,247

¹ (a) Book value of all manufacturing inventories owned and held at plant and plant warehouses.

(b) Beginning with 1954, information on the value of year-end inventory holdings at plant and plant warehouses is being collected as part of the annual Census of Industry. These data were formerly collected by a separate survey. The summarized results for the Miscellaneous Non-ferrous Metal Products Industry for the year under review are shown in the above table.

(c) The opening inventory for 1959 does not necessarily agree with the closing inventory for 1958, because of the addition of new plants, the transfer of plants to other industries and plants going out of business, etc. However, the value added figures for the previous year have not been recalculated to allow for the changes mentioned above.

TABLE 3. Principal Statistics of the Miscellaneous Non-ferrous Metal Products Industry in Canada, grouped according to Size of Establishment, 1958 and 1959

Establishments reporting factory shipments	Estab-lish-ments	Em-ployees	Salaries and wages	Cost at plant of materials used	Selling value of factory shipments
1958		number	dollars		
Under \$10,000	5	7	12,981	8,693	23,340
\$ 10,000 to \$ 24,999	9	26	48,356	55,016	142,825
25,000 " 49,999	—	—	—	—	—
50,000 " 99,999	3	27	75,746	146,287	230,053
100,000 " 199,999	7	87	316,171	492,762	1,080,561
200,000 " 499,999	3	187	858,585	1,331,246	2,314,765
500,000 " 999,999	2				
1,000,000 " 4,999,999	3	805	3,724,120	6,819,864	13,274,126
5,000,000 and over	1				
Totals	33	1,139	5,035,959	8,853,868	17,065,670
1959					
Under \$10,000	4	5	9,500	4,900	17,596
\$ 10,000 to \$ 24,999	5	15	27,613	30,460	80,783
25,000 " 49,999	1	16	47,297	125,552	198,852
50,000 " 99,999	2				
100,000 " 199,999	10	115	397,277	648,336	1,474,714
200,000 " 499,999	3	219	879,856	1,415,123	2,655,317
500,000 " 999,999	2				
1,000,000 " 4,999,999	4	689	3,134,786	5,715,070	13,072,017
5,000,000 and over	1				
Totals	32	1,059	4,496,329	7,939,441	17,499,279

TABLE 4. Principal Statistics classified according to Type of Ownership, 1958 and 1959

Type	Estab- lish- ments	Em- ployees	Salaries and wages	Cost at plant of materials used	Selling value of factory shipments
	number		dollars		
1958					
Individual ownership	10	34	84,051	157,629	275,283
Partnership	2				
Incorporated companies	21	1,105	4,951,908	8,696,239	16,790,387
Totals	33	1,139	5,035,959	8,853,868	17,065,670
1959					
Individual ownership	10	35	85,159	248,325	401,667
Partnership	1				
Incorporated companies	21	1,024	4,411,170	7,691,116	17,097,612
Totals	32	1,059	4,496,329	7,939,441	17,499,279

TABLE 5. Employees, Salaries and Wages in the Miscellaneous Non-ferrous Metal Products Industry, 1958 and 1959

Province	Employees					Earnings		
	Supervisory and office		Production workers		Total	Supervisory and office	Production workers	Total
	Male	Female	Male	Female				
	number					dollars		
1958								
Quebec	21	8	68	8	105	158,556	197,284	355,840
Ontario	246	90	573	87	996	1,843,429	2,684,556	4,527,985
Manitoba	8	—	28	2	38	42,772	109,362	152,134
British Columbia								
Canada	275	98	669	97	1,139	2,044,757	2,991,202	5,035,959
1959								
Quebec	19	8	63	7	97	159,745	173,743	333,488
Ontario	278	91	466	89	924	1,812,046	2,181,659	3,993,705
Manitoba	6	—	30	2	38	35,565	133,571	169,136
British Columbia								
Canada	303	99	559	98	1,059	2,007,356	2,488,973	4,496,329

TABLE 6. Production Workers, by Months, 1959

Month	Establishments reporting monthly detail ¹	
	Male	Female
January	651	73
February	431	58
March	437	61
April	433	61
May	449	63
June	476	75
July	469	80
August	490	83
September	498	78
October	506	87
November	523	74
December	523	72
Average for establishments reporting monthly detail	488	74
Average estimated for small establishments ²	71	24
Average for all establishments	559	98

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

² 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 7. Capital and Repair Expenditures in the Miscellaneous Non-ferrous Metal Products Industry, 1955 - 59

Year	Total capital and repair expenditure
	\$'000
1955	541
1956	1,977
1957	2,231
1958	908
1959 ^P	1,086

TABLE 8. Fuel and Electricity Used in the Miscellaneous Non-ferrous Metal Products Industry, 1959

Kind	Quantity	Cost at plant
		\$
1. Establishments reporting commodity detail: ¹		
Gasoline (including gasoline used in cars and trucks).....	Imp. gal. 6,456	2,731
Fuel oil including kerosene or coal oil.....	" 570,548	68,124
Gas (a) Liquefied petroleum gases.....	" 5,042	1,470
(b) Natural gas.....	M cu. ft. 43,499	57,038
Electricity purchased	kwh. 16,097,234	129,770
2. Estimate for establishments for which no data were collected: ²		
Cost of fuel and electricity	25,774
3. All establishments:		
Total cost of fuel and electricity	284,907

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

List of Firms in the Miscellaneous Non-ferrous Metal Products Industry, 1959

Name of firm	Location of plant
Quebec:	
Beaver Metal Weather Strip.....	8785 St. Denis St., Montreal
Bel Art Metal Castings Reg'd.....	9105 Notre Dame St. E., Montreal
Economic Weatherstrip.....	8671-10th Ave., Ville St. Michel
Hard and Soft Metal Works.....	5780 Royer St., Montreal
Ideal Weatherstrips Reg'd.....	62-9th Ave. E., Charlesburg
Piper, Hiram L., Co. Ltd.....	555 St. Remi St., Montreal
Produits Universal Products Inc.....	95 du Meneje, Beauport
R.C.R. Products Ltd.....	5815 Azilda, Ville d'Anjou
Ville Emard Metal Spinning Reg'd.....	5726 Beaulieu St., Montreal
Wall Colmonoy (Canada) Limited.....	2997 Broadway, Montreal E.
Ontario:	
A.M.F. Atomics (Canada) Ltd.....	Port Hope
Armalite Company Limited.....	907 Oxford St., Toronto
Atlas Titanium Ltd.....	Welland
East Weatherstrip Company Limited.....	R.R. #7, Brantford
Canadian Hanson & Van Winkle Co. Ltd.....	15-25 Morrow Ave., Toronto
Canadian Racall Co.....	39 Colbourne St. East, Lindsay

List of Firms in the Miscellaneous Non-ferrous Metal Products Industry, 1959 — Concluded

Name of firm	Location of plant
Ontario — Concluded:	
Canadian Steel Improvement Ltd.	289 Horner Ave., Toronto
Chamberlin Metal Weather Strip Co. Limited, The	5 Centre St., London
Crane Packing Company, Limited	617 Parkdale Ave. N., Hamilton
Deloro Stellite	Belleville
Etched Name Plates Limited	2202 Gerrard St. E., Toronto 13
Higgin-Duplex Ltd.	134 Park Lawn Road, Toronto
Hose Couplings Fittings Ltd.	38-44 Water St., Simcoe
Magcoa Limited	277 Kipling Ave. S., Toronto
Marina Electronics Engineering Co.	52 Advance Rd., Toronto
Superior Tool & Die Ltd.	19 Mansion Ave., Toronto
Tri-Canada Fittings & Equipment	4231 Dundas St. W., Toronto
Vanal Mfg. Co. Ltd.	1480 Lakeshore Rd., Toronto
Manitoba:	
Deeley Metal Weatherstrip	921 Redwood Ave., Winnipeg
Swan Manufacturing Company	Ellen & Alexander Sts., Winnipeg
British Columbia:	
Leigh's Weatherstrips	736 Newport Ave., Victoria
Macro Div. of Kennametal, Inc.	Kingsway Ave., Port Coquitlam

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