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THE ASBESTOS 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 in the **Non-Metallic Mineral 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

Catalogue number	Title	Price
44-201	Non-Metallic Mineral Products — General Review (A)50
44-202	The Artificial Abrasives Industry (A)50
44-203	The Asbestos Products Industry (A)25
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or to the Queen's Printer, Ottawa, Canada.*

SYMBOLS

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

- .. figures not available.
- ... figures not appropriate or not applicable.
- nil or zero.
- P 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 ASBESTOS PRODUCTS INDUSTRY

1959

Factory shipments by the manufacturers of asbestos goods in Canada in 1959 were valued at \$30,883,070. The products included brake linings at \$4,400,777 boiler and pipe coverings at \$769,421 asbestos packings at \$784,528 asbestos textile products at \$4,354,599 asbestos paper products at \$584,738 and such other lines as cements, cement pipe, tank jackets, boiler covers, etc.

Sixteen factories were included in this industry in 1959 of which 8 were located in Ontario, 5 in Quebec, 2 in British Columbia and 1 in Nova Scotia. The number of employees totalled 2,076 and payments for salaries and wages for the year amounted to \$9,154,154. Expenditures for fuel and electricity totalled \$897,813 and materials for manufacturing cost \$13,676,667.

Note: Due to lack of inventory data, figures for value 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 Asbestos 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	Gross selling value of products
	number				dollars		
1929	12	351	359,433	80,902	1,348,460	857,276	2,286,638
1933	11	222	208,580	55,031	331,062	371,533	757,626
1937	13	451	464,882	91,252	812,639	992,786	1,896,677
1939	14	415	497,324	99,711	724,424	959,858	1,783,993
1945	13	912	1,422,077	216,635	2,812,091	2,648,565	5,677,291
1946	12	965	1,531,702	238,650	2,953,823	6,409,116	3,216,643
1949	14	1,533	3,637,864	461,473	4,794,030	5,037,506	10,343,009
1955	16	2,075	7,222,575	729,134	12,889,656	16,393,874	30,127,022
1956	16	2,249	8,527,505	829,850	15,955,866	18,356,090	34,229,784
1957	17	2,222	8,311,653	853,483	13,693,806	15,275,224	29,988,123
1958							
Quebec	5	1,124	4,421,307	501,394	6,636,222	5,750,967	12,984,307
Ontario	8	764	2,997,164	367,401	5,448,183	8,925,672	14,240,255
Nova Scotia	1	35	127,517	10,649	152,458	212,168	385,300
British Columbia	2						
Canada	16	1,924	7,545,988	879,444	12,236,863	14,888,807	27,609,862
1959							
Quebec	5	1,234	5,243,199	509,478	7,518,443	8,058,014	15,382,356
Ontario	8	798	3,750,355	375,493	5,975,599	8,855,970	15,044,471
Nova Scotia	1	44	160,600	12,842	182,625	268,684	456,243
British Columbia	2						
Canada	16	2,076	9,154,154	897,813	13,676,667	17,182,668	30,883,070

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	2,197,687	448,702	1,908,318	4,554,707
Ontario	842,715	539,145	1,499,112	2,880,972
Nova Scotia and British Columbia	25,422	—	109,092	134,513
Canada	3,065,824	987,847	3,516,522	7,570,193
Closing:				
Quebec	2,009,348	486,472	2,574,127	5,069,947
Ontario	959,807	687,437	1,513,411	3,160,655
Nova Scotia and British Columbia	44,210	—	117,000	161,210
Canada	3,013,365	1,173,909	4,204,538	8,391,812

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 Asbestos Products Industry for the year under review are shown in the above table.

(c) The opening inventory for the current year may not necessarily agree with the closing inventory published the previous year because of changes in the composition of the industry such as: the addition of new establishments, the disappearance of old ones, or the transfer of establishments to other industries for statistical purposes. The figure for value added by manufacture for the previous year does not need to be altered because of such changes in the composition of the industry.

TABLE 3. Products Manufactured in the Asbestos Products Industry, 1958 and 1959

Product	1958		1959	
	Quantity	Value of factory shipments	Quantity	Value of factory shipments
	No.	\$	No.	\$
Asbestos brake linings (automotive type only):				
Moulded	3,398,092	..	4,116,263
Other	305,311	..	284,514
Boiler and pipe coverings (Asbestos only—see table 6)		880,872		769,421
Asbestos gaskets	93,714	..	97,441
Asbestos packings of all kinds	654,513	..	784,528
Asbestos textile products (cloth, clothing, dryer felts, yarn, pipe line felt, listings, thermo wrap pipe covering, webbing)	4,091,471	..	4,354,599
Asbestos paper products (Millboard and paper)	641,104	..	584,738
All other products ¹	17,544,785	..	19,891,566
Totals	27,609,862	..	30,883,070

¹ Includes hydraulic brake hose, asbestos shingles, asbestos cement wallboard, asbestos cement pipe, etc. Figures for these commodities cannot be shown separately as in most cases there were only one or two producers in this industry.

TABLE 4. Materials Used in the Asbestos Products Industry, 1958 and 1959

Material	1958		1959	
	Quantity	Cost at works	Quantity	Cost at works
	pounds	\$	pounds	\$
Asbestos fibre	59,722,824	4,451,111	56,172,377	4,926,545
Asbestos cloth	20,209	18,816	5,000	4,827
Asbestos paper, corrugated and plain	4,966,296	344,677	3,080,977	192,296
Asbestos yarn	1,249,812	950,354	257,167	179,540
Cotton cloth and yarn .....	..	881,761	..	884,154
Rubber and rubber sheets .....	..	150,026	..	216,475
Containers and packing materials .....	..	417,454	..	541,579
All other materials ¹ .....	..	5,022,664	..	6,731,251
Totals .....	...	12,236,863	...	13,676,667

¹ No detailed information on materials used was collected from firms generally reporting value of shipments of less than \$500,000. The total value of materials used by these firms was \$343,570 and this amount is included in "all other materials".

TABLE 5. Production¹ of Asbestos Brake Linings, 1950 - 59 (from All Industries)

Year	Moulded ²		Other		Total value
	Quantity	Value	Quantity	Value	
	ft.	\$	ft.	\$	\$
1950	—	2,078,416	—	268,858	2,347,274
1951	—	2,621,465	—	395,162	3,016,627
1952	—	2,949,000	—	430,000	3,379,000
1953	—	3,073,000	—	400,000	3,473,000
1955	—	3,088,000	—	557,000	3,645,000
1956	—	3,635,000	—	324,000 ²	3,959,000
1957	—	3,239,000	—	343,000 ²	3,582,000
1958	—	3,398,000	—	305,000 ²	3,703,000
1959	—	4,135,880	—	284,514 ²	4,420,394

¹ Factory shipments since 1952.² Automotive type only since 1956.TABLE 6. Production¹ of Asbestos² Boiler and Pipe Coverings and Asbestos Packings, 1950 - 1959

Year	Selling value at works		Year	Selling value at works	
	Boiler and pipe coverings	Packings		Boiler and pipe coverings	Packings
	dollars			dollars	
1950	1,232,000	366,000	1955	1,631,000	1,107,000
1951	1,368,116	592,004	1956	3,292,000	1,149,000
1952	1,668,890	1,131,000	1957	3,609,000	970,000
1953	1,507,000	579,000	1958	3,311,000	978,000
1954	1,465,000	811,000	1959	3,086,000	1,114,000

¹ Factory shipments since 1952.² Includes asbestos type only prior to 1956 but since then includes magnesia, felt and other types as well — pipeline felt and tank jackets are excluded.

TABLE 7. Principal Statistics, classified according to Type of Ownership — 1958 and 1959

Type	Estab-lish-ments	Employees	Salaries and wages	Cost at plant of materials used	Selling value of factory shipments
	number		dollars		
1958					
Partnerships	1	1,924	7,545,988	12,236,863	27,609,862
Incorporated companies	15				
Totals	16	1,924	7,545,988	12,236,863	27,609,862
1959					
Partnerships	1	2,076	9,154,154	13,676,667	30,883,070
Incorporated companies	15				
Totals	16	2,076	9,154,154	13,676,667	30,883,070

TABLE 8. Principal Statistics of the Asbestos Products Industry in Canada, grouped according to Size of Establishment. 1958 and 1959

Establishments reporting factory shipments	Establishments	Employees	Salaries and wages	Cost at plant of materials used	Selling value of factory shipments
	number		dollars		
1958					
Under \$10,000	1	119	434,728	1,328,087	2,172,343
\$ 100,000 to \$ 199,999	5				
500,000 " 999,999	2				
1,000,000 " 4,999,999	6	1,805	7,111,260	10,908,776	25,437,519
5,000,000 and over	2				
Totals	16	1,924	7,545,988	12,236,863	27,609,862
1959					
Under \$10,000	1	57	193,345	245,727	600,289
\$ 100,000 to \$ 199,999	4				
500,000 " 999,999	4				
1,000,000 " 4,999,999	5	1,888	8,399,089	11,671,482	27,647,993
5,000,000 and over	2				
Totals	16	2,076	9,154,154	13,676,667	30,883,070

TABLE 9. Capital and Repair Expenditures in the Asbestos Products Industry, 1955 - 1959

Year	Capital expenditures		Sub-total	Repair and maintenance expenditures		Sub-total	Total capital and repair expenditures
	Con-struction	Machinery and equipment		Con-struction	Machinery and equipment		
	thousands of dollars						
1955	133	624	757	99	913	1,012	1,769
1956	254	1,149	1,403	105	921	1,026	2,429
1957	1,925	2,578	4,503	74	760	834	5,337
1958	97	1,330	1,427	125	1,009	1,134	2,561
1959 ^P	294	898	1,172	187	1,201	1,388	2,560

TABLE 10. Employees and their Earnings in the Asbestos Products Industry, 1958 and 1959

Province	Number of employees					Earnings		
	Supervisory and office		Production workers		Total	Supervisory and office	Production workers	Total
	Male	Female	Male	Female				
1958						dollars		
Quebec	170	65	751	138	1, 124	1, 140, 022	3, 281, 285	4, 421, 307
Other provinces	146	41	594	19	800	839, 242	2, 285, 439	3, 124, 681
Canada	316	106	1, 345	157	1, 924	1, 979, 264	5, 566, 724	7, 545, 988
1959								
Quebec	172	69	857	135	1, 234	1, 305, 402	3, 937, 797	5, 243, 199
Other provinces	135	52	639	17	842	870, 762	3, 040, 193	3, 910, 955
Canada	307	121	1, 496	152	2, 076	2, 176, 164	6, 977, 990	9, 154, 154

TABLE 11. Production Workers, by Months, 1959

Month	Establishments reporting monthly detail ¹	
	Male	Female
January	1,330	140
February	1,372	144
March	1,409	140
April	1,422	145
May	1,472	153
June	1,511	157
July	1,475	153
August	1,481	158
September	1,468	154
October	1,470	153
November	1,429	152
December	1,429	152
Average for establishments reporting monthly detail	1,441	152
Average estimated for small establishments ²	55	—
Average for all establishments	1,496	152

¹ The number of production workers, by months, was collected only for establishments generally reporting value of shipments of \$500,000 and over.

² For establishments generally reporting value of shipments of less than \$500,000 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 12. Imports of Asbestos Products, 1958 and 1959

Item	1958	1959
Asbestos packings	lb. 301,621	384,594
.....	\$ 260,624	284,914
Asbestos brake linings for automobiles, motor vehicles and chassis	\$ 503,086	611,631
Asbestos clutch facings for automobiles, motor vehicles and chassis	\$ 324,907	364,443
Asbestos brake linings and clutch facings, n.o.p.	\$ 118,043	248,413
Asbestos in any form other than crude, and all manufactures of, n.o.p.	\$ 2,996,091	2,568,873
Total imports	\$ 4,202,751	4,078,274

TABLE 13. Exports and Re-exports of Asbestos and Asbestos Products, 1958 and 1959

—	1958	1959
Asbestos, crude	ton 483	416
.....	\$ 478,976	426,241
Asbestos milled fibres	ton 318,280	401,583
.....	\$ 61,330,032	76,375,853
Asbestos waste, refuse or shorts	ton 547,867	611,923
.....	\$ 28,936,005	33,629,198
Asbestos clutch facings and brake linings	\$ 463,982	386,830
Asbestos packings	\$ 7,691	96
Asbestos manufactures, including asbestos roofing	\$ 330,615	323,172
Total exports and re-exports	\$ 91,547,301	111,141,390

TABLE 14. Fuel and Electricity Used in the Asbestos Products Industry, 1959

Kind	Quantity	Cost at plant
		\$
Establishments reporting commodity detail: ¹		
Bituminous coal:		
(a) From Canadian mines	ton 24	381
(b) Imported	" 13,547	152,032
Gasoline (including gasoline used in cars and trucks).....	Imp. gal. 44,703	15,747
Fuel oil including kerosene or coal oil	" 4,770,770	348,787
Wood	cord 403	5,795
Gas:		
(a) Liquefied petroleum gases	Imp. gal. 154,916	25,814
(b) Natural gas	M cu. ft. 20,297	20,985
Other fuel	—	1,526
Electricity purchased	kwh. 47,455,740	305,992
Estimate for establishments for which no data were collected: ²		
Cost of fuel and electricity .....	...	20,754
All establishments:		
Total cost of fuel and electricity .....	...	897,813

¹ Establishments generally reporting value of shipments of \$500,000 and over.² Establishments generally reporting value of shipments of less than \$500,000.

List of Firms in the Asbestos Products Industry, 1959

Name	Location of plant
Guildford's Limited	16 June St., Halifax, Nova Scotia
Asbestos Corporation, Limited	48 Fort St., St. Lambert, Quebec
Atlas Asbestos Company, Limited	5600 Hochelaga St., Montreal, Quebec
Asten-Hill Limited	Valleyfield, Quebec
Canadian Johns-Manville Company, Ltd.	Asbestos, Quebec
Philip Carey Company Ltd., The	Lennoxville, Quebec
Canadian Johns-Manville Company, Ltd.	Port Union, Ontario
Caposite Insulations Ltd.	200 Exmouth St. Sarnia, Ontario
Raybestos-Manhattan (Canada) Limited	280 Perry St., Peterborough, Ontario
Dominion Brake Shoe Company Ltd.	50 Colborne St., Lindsay, Ontario
Hamilton Engine Packing Company	39 Morley St., Hamilton, Ontario
Thomson-Gordon Ltd.	12-14 Ferguson Ave. N., Hamilton, Ontario
A.C. Wild & Co.	142 Vine Ave., Toronto, Ontario
Acme Asbestos Ltd.	1222 East 67th Ave., Vancouver, British Columbia
Asbestos Cement Products Ltd.	Bridge St., New Westminster, British Columbia

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