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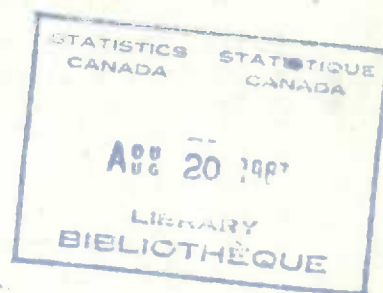


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THE MISCELLANEOUS TRANSPORTATION EQUIPMENT INDUSTRY

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 **Transportation Equipment 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
42-201	Transportation Equipment — General Review (A)50
42-203	Aircraft and Parts Industry (A)50
42-204	Bicycle Manufacturing Industry (A)25
42-205	Boatbuilding Industry (A)50
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42-209	Motor Vehicles Industry (A)50
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42-212	Miscellaneous Transportation Equipment Industry (A)25
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42-001	Preliminary Report on Production of Motor Vehicles (M) per year	1.00
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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 TRANSPORTATION EQUIPMENT INDUSTRY

1959

The Standard Industrial Classification adopted by the Dominion Bureau of Statistics in 1949 provides for a new group, the Miscellaneous Transportation Equipment Industry, for the first time. The group, as now established, includes firms formerly classified in the Carriages, Sleighs and Vehicle Supplies Industry, which made products such as carriages, sleighs, bodies and boxes for vehicles, wheels, etc., and in addition, manufacturers of other miscellaneous transportation equipment, such as wheelbarrows and baby carriages.

In 1959 there were 17 operating plants in this miscellaneous industry. Factory shipments from these works were valued at \$10,097,301. Employment was afforded to 690 persons who were paid \$2,525,126 in salaries and wages. Materials for

use in manufacturing processes cost \$4,894,154 while fuel and electricity cost \$97,921.

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 Miscellaneous Transportation Equipment Industry, 1950 - 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		
1950	64	1,283	2,653,830	109,213	4,394,644	5,616,258	10,120,115
1954	37	830	2,152,343	89,807	3,471,520	4,079,487	7,541,123
1955	27	793	2,179,376	88,513	4,015,082	3,672,985	7,894,091
1956	27	886	2,468,670	119,217	4,983,141	5,044,853	10,109,986
1957	23	662	2,162,878	90,757	2,980,252	4,189,981	7,365,625
1958							
Newfoundland	3	9	20,800	4,816	13,600	44,204	62,620
Quebec	4	171	576,920	19,710	1,363,209	1,670,276	2,900,155
Ontario	7	425	1,493,073	65,166	1,999,805	2,293,352	4,322,333
Saskatchewan	1						
Alberta	1						
Canada	16	605	2,090,793	89,692	3,376,614	4,007,832	7,285,108
1959							
Newfoundland	3	7	15,445	2,455	15,120	34,525	52,100
Quebec	4	197	643,323	23,194	1,944,744	2,482,392	4,420,558
Ontario	8	486	1,866,358	72,272	2,934,290	2,786,858	5,624,643
Alberta	2						
Canada	17	690	2,525,126	97,921	4,894,154	5,303,775	10,097,301

¹ See note to text.

Note: (a) 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.
(b) Separate statistics for this industry were not compiled before 1949.

TRANSPORTATION EQUIPMENT

TABLE 2. Inventories,¹ 1959

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
	dollars			
Opening:				
Ontario	628,050	177,847	176,897	982,794
Other provinces	724,553	83,653	415,573	1,223,779
Canada	1,352,603	261,500	592,470	2,206,573
Closing:				
Ontario	551,189	129,879	232,412	913,480
Other provinces	745,173	90,002	600,226	1,435,401
Canada	1,296,362	219,881	832,638	2,348,881

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

Note: 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 Transportation Equipment Industry for the year under review are shown in the above table. The opening inventory for 1959 does not necessarily agree with the closing inventory for 1958, because of the transfer of plants to other industries and plants going out of business.

TABLE 3. Products Made in the Miscellaneous Transportation Equipment Industry, 1958 and 1959

Product	1958		1959	
	Number	Value of factory shipments	Number	Value of factory shipments
		\$		\$
Complete wheeled vehicles (horse-drawn)	936	193,990	1,343	186,501
Wheels only	186	2,632	20	800
Hubs, spokes, bent goods, etc. (wood)	—	624	—	15,615
Other parts for horse-drawn vehicles	—	20,983	—	2,951
Bodies and boxes only (for automobiles and trucks) ..	—	42,260	—	15,000
All other products ¹	—	7,024,619	—	9,876,434
Totals	—	7,285,108	—	10,097,301

¹ Includes wheelbarrows, baby carriages, toy vehicles, snowmobiles and other products made by less than three firms.

TABLE 4. Materials Used in the Miscellaneous Transportation Equipment Industry, 1958 and 1959

Materials used		1958		1959	
		Quantity	Cost at works	Quantity	Cost at works
			\$		\$
Lumber, (rough or planed), softwood (pine, spruce, etc.)	M ft. b.m.	44	4,749	—	—
Lumber, (rough or planed), hardwood (birch, oak, hawthorn, etc.)	"	168	21,686	157	18,059
Plywood	M surface ft.	23	2,257	—	—
Steel					
Bars	ton	732	124,763	1,229	189,018
Sheets (less than 3/16 in. thick):					
Plain	"	878	122,882	1,228	169,108
Galvanized	"	2	630	12	3,789
Tinplate	"	10	2,930	—	—
Strip	"	808	148,581	829	152,817
Wire	"	238	42,443	289	52,295
Other iron and steel		—	333,715	—	630,937

TABLE 4. Materials Used in the Miscellaneous Transportation Equipment Industry, 1958 and 1959 -Concluded

Materials used	1958		1959	
	Quantity	Cost at works	Quantity	Cost at works
		\$		\$
Non-ferrous metals (all forms, including scrap)				
Aluminum—Sheet	—	2,819	—	4,870
Other forms	—	27,866	—	16,150
Other materials				
Wheels	No. 3,700	28,475	766	6,115
Fabrics	—	155,908	—	122,103
Paint and varnish	—	62,123	—	70,110
All other materials and process supplies ¹	—	2,294,787	—	3,458,783
Totals		3,376,614		4,894,154

¹ No detailed information on materials used was collected from firms generally reporting value of shipments of less than \$100,000. The total estimated value of material used by these firms was \$81,906, and this amount is included in "all other materials and process supplies".

TABLE 5. Principal Statistics, classified according to Type of Ownership, 1958 and 1959

Type	Establishments	Employees	Salaries and wages	Cost at plant of materials used	Selling value of factory shipments
1958	number		dollars		
Individual ownership	5	19	43,491	40,792	104,475
Partnerships	3	5	11,000	12,300	31,050
Incorporated companies	8	581	2,036,302	3,323,522	7,149,583
Totals	16	605	2,090,793	3,376,614	7,285,108
1959	number		dollars		
Individual ownership	6	14	30,257	28,207	70,760
Partnerships	1				
Incorporated companies	10	676	2,494,869	4,865,947	10,026,541
Totals	17	690	2,525,126	4,894,154	10,097,301

TABLE 6. Principal Statistics of the Miscellaneous Transportation Equipment Industry in Canada, grouped according to Size of Establishment, 1958 and 1959

Establishments reporting value of factory shipments	Establishments	Employees	Salaries and wages	Cost at plant of materials used	Selling value of factory shipments
1958	number		dollars		
Under \$10,000	5	14	23,475	25,318	61,783
\$ 10,000 to \$ 24,999	2				
25,000 " 49,999	1	20	61,459	74,160	189,194
50,000 " 199,999	2				
200,000 " 499,999	1	118	410,605	618,814	1,381,435
500,000 " 999,999	2				
1,000,000 " 4,999,999	3	453	1,595,254	2,658,322	5,652,696
Totals	16	605	2,090,793	3,376,614	7,285,108
1959	number		dollars		
Under \$10,000	4	7	12,556	8,467	23,797
\$ 10,000 to \$ 24,999	4	8	24,304	22,689	65,963
25,000 " 49,999	1				
50,000 " 199,999	2	118	391,446	796,173	1,482,892
200,000 " 499,999	1				
500,000 " 999,999	1				
1,000,000 " 4,999,999	4	557	2,096,820	4,066,825	8,524,649
Totals	17	690	2,525,126	4,894,154	10,097,301

TABLE 7. Employees and Earnings in the Miscellaneous Transportation Equipment Industry by Provinces, 1958 and 1959

Province	Employees					Earnings		
	Supervisory and office		Production and related workers		Total employees	Supervisory and office	Production and related workers	Total earnings
	Male	Female	Male	Female				
	number					dollars		
1958								
Quebec	27	6	137	1	171	215,973	360,947	576,920
Ontario	41	25	246	109	421	404,469	1,078,604	1,483,073
Other provinces	7	—	6	—	13	16,200	14,600	30,800
Canada	75	31	389	110	605	636,642	1,454,151	2,090,793
1959								
Quebec	27	8	161	1	197	213,403	429,920	643,323
Ontario	44	24	231	91	390	394,558	998,658	1,393,216
Other provinces	11	38	54	—	103	262,643	225,944	488,587
Canada	82	70	446	92	690	870,604	1,654,522	2,525,126

TABLE 8. Production Workers, by Months, 1959

Month	Establishments reporting monthly detail ¹	
	Male	Female
January	399	104
February	392	105
March	417	105
April	432	99
May	442	93
June	452	84
July	442	74
August	457	98
September	452	92
October	458	88
November	442	85
December	448	74
Average for establishments reporting monthly detail	436	92
Average estimated for small establishments ²	10	—
Average for all establishments	446	92

¹ The number of production workers, by months, was collected only for establishments generally reporting value of shipments of \$100,000 and over.

² For establishments generally reporting value of shipments of less than \$100,000, 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 9. Capital and Repair Expenditures in the Miscellaneous Transportation Equipment Industry, 1954 - 1959

Year	Total capital and repair expenditures	Year	Total capital and repair expenditures
	\$'000		\$'000
1954	109	1957	241
1955	210	1958	111
1956	333	1959 ^P	169

^P Preliminary figures.

TABLE 10. Fuel and Electricity Used in the Miscellaneous Transportation Equipment Industry, 1959

Kind	Quantity	Cost at plant
		\$
1. Establishments reporting commodity detail: ¹		
Bituminous coal:		
(a) From Canadian mines	ton 68	1,240
(b) Imported	795	10,177
Anthracite coal	" 77	1,613
Gasoline (including gasoline used in cars and trucks)	Imp. gal. 34,352	13,923
Fuel oil including kerosene or coal oil	" 153,016	20,557
Wood	cord 10	160
Gas (a) Liquefied petroleum gases	Imp. gal. 2,940	526
(b) Natural gas	Mcf. 7,074	2,254
Other fuel	8
Electricity purchased	kwh. 3,788,100	41,504
2. Estimate for establishments for which no data were collected: ²		
Cost of fuel and electricity	5,959
3. All establishments:		
Total cost of fuel and electricity	97,921

¹ Establishments generally reporting value of shipments of \$100,000 and over.² Establishments generally reporting value of shipments of less than \$100,000.

.. Figures not available.

... Figures not appropriate or not applicable.

List of Firms in the Miscellaneous Transportation Equipment Industry, 1959

Name of firm	Location of plant
Newfoundland:	
Carnell's Carriage Factory, Limited	146 Duckworth St., St. John's
Oke's Carriage Factory	7-9-13 Prescott St., St. John's
Wall, Phillip, & Sons	10 George St. East, St. John's
Quebec:	
DeBlois, R.	Ste-Marguerite de Dorchester
La Cie Normand Ltée	St-Pascal
L'Auto-Neige Bombardier Ltée	Valcourt
Norman Frères	Mont-Joli
Ontario:	
Erie Iron Works	99-101 Edward St., St. Thomas
Hercules Shaft Splice Co.	167 Queen St., Stratford
Heywood Wakefield Co. of Canada Ltd.	Forest Ave., Orillia
Johnson Wheel Chair Mfg. Co.	69 Advance Rd., Toronto
McFarlane Gendron Manufacturing Co., Ltd.	137 Duchess St., Toronto
Meaford Steel Products Limited	Meaford
Peterboro Sulky & Jog Cart	R.R.#9, Peterborough
Vollans Industries Limited	Andrew St. S., Orillia
Saskatchewan:	
Ingham Motor Toboggans	Lanigan
Alberta:	
Akkerman Trailers	Hubalta
Nodwell, Robin, Mfg. Ltd.	50th Ave. & 1st. St. S.E., Calgary

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