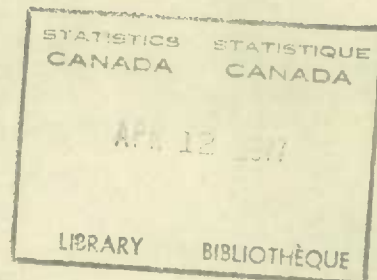


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TRANSPORTATION EQUIPMENT 1959

General Review

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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
42-206	Shipbuilding Industry (A)25
42-209	Motor Vehicles Industry (A)50
42-210	Motor Vehicles Parts Industry (A)50
42-211	Railway Rolling Stock Industry (A)50
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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31-201	General Review of the Manufacturing Industries (A)	2.00
65-004	Trade of Canada — Exports (M) per year	7.50
65-007	Trade of Canada — Imports (M) per year	7.50

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.

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.

JUL 26 1961

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.

TRANSPORTATION EQUIPMENT

1959

General Review

The Standard Industrial Classification, which has been used by the Dominion Bureau of Statistics in its compilations since 1949, provides for a separate Transportation Equipment group. This major division includes such industries as aircraft, shipbuilding, motor vehicles, etc., which were formerly classified in the Iron and Steel and their Products group. It also includes the boat building and miscellaneous transportation industries, which were formerly in the wood-using group.

A final analysis of the 1959 reports from the manufactures of transportation equipment in Canada indicates a gross production valued at \$2,022 millions at factory prices. This output value was 2.6 per cent below the corresponding figure for 1958.

Factory shipments by industries were as follows, in millions of dollars; Aircraft, \$327.5; Bicycles, \$7.6; Boat building, \$14.6; Motor vehicles, \$928.9; Motor vehicle parts, \$323.4; Railway rolling stock and parts, \$266.9; Shipbuilding, \$143.1 and Miscellaneous \$10.1.

The distribution of this production by provinces was as follows, in millions of dollars; Ontario, \$1,486.1; Quebec, \$342.3; British Columbia, \$57.5; Manitoba, \$53.2; Nova Scotia, \$33.9; Alberta, \$28.1; New Brunswick \$18.5 and Saskatchewan, Prince Edward Island and Newfoundland, \$2.6.

In 1959 a total of 645 factories operated in this group. These works employed 113,606 people who were paid \$531.6 millions for salaries and

wages. Materials used in manufacturing processes cost \$1,120.3 millions and fuel and electricity cost \$20.2 millions.

Note: Figures for value added by manufacture prior to 1952 were obtained by subtracting the cost of materials used, including fuel and electricity, from the value of production. In 1952 the gross value of production was replaced by value of factory shipments, f.o.b. plant, for a number of industries of this group, including bicycles, boat building, motor vehicles, motor vehicle parts and miscellaneous transportation equipment. For these industries in 1953 no information on inventory change is available and the value added figures for this year were obtained by subtracting from the value of shipments the cost of materials, fuel and electricity. In 1954 information on the value of year-end inventory holdings at plant and plant warehouses began to be collected as part of the annual Census of Industry and information thus made available was taken into account in calculating the value added figures. In 1954 and 1955, 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.

The figures for value added for the remainder of the industries in this group—aircraft, railway rolling stock and parts and shipbuilding—are obtained, as before, by subtracting the cost of materials used, including fuel and electricity, from the value of production.

TRANSPORTATION EQUIPMENT

TABLE 1. Principal Statistics for the Transportation Equipment Group, by Industries, 1958 and 1959

Industry	Estab- lish- ments	Em- ployees	Salaries and wages for year	Cost of fuel and electricity at works	Cost of materials at works	Value added by manufacture ¹	Gross selling value of products at works
1958	number		dollars				
Aircraft	75 ²	39,932	182,276,877	4,660,674	176,538,577	281,131,994	462,331,245
Bicycles	5	672	2,497,715	98,656	2,211,143	4,404,902	6,624,646
Boat building	215	1,733	5,273,824	201,339	5,191,636	7,139,095	12,291,961
Motor vehicles	15	26,396	129,718,693	5,263,376	571,501,486	253,945,274	847,342,113
Motor vehicle parts	206	18,132	77,730,771	4,374,848	155,921,086	133,476,810	295,741,107
Railway rolling stock and parts	29	22,374	87,953,769	4,006,379	188,155,709	103,799,162	295,961,250
Shipbuilding	65	16,132	65,883,090	2,055,185	50,673,132	95,602,037	148,330,354
Miscellaneous	16	605	2,090,793	89,692	3,376,614	4,007,832	7,285,108
Total transportation equipment	626	125,976	553,425,532	20,750,149	1,153,569,387	883,507,106	2,075,907,784
1959	number		dollars				
Aircraft	78	28,516	142,484,904	3,684,751	127,937,264	195,911,616	327,533,631
Bicycles	4	741	3,086,697	112,086	2,420,482	5,944,202	7,610,181
Boat building	225	1,774	5,555,180	247,336	5,923,804	8,410,720	14,589,718
Motor vehicles	16	26,461	146,956,325	5,922,223	591,068,962	353,765,632	928,949,639
Motor vehicle parts	211	18,885	85,198,507	4,506,894	173,770,732	151,495,727	323,420,389
Railway rolling stock and parts	29	20,248	83,680,309	3,566,466	163,814,494	99,467,140	266,868,100
Shipbuilding	65	14,291	62,100,539	2,045,530	50,452,695	90,628,521	143,126,746
Miscellaneous	17	690	2,525,126	97,921	4,894,154	5,303,775	10,097,301
Total transportation equipment	645	113,606	531,587,587	20,183,207	1,120,282,587	910,947,333	2,022,195,705

¹ See note to text.² Part of the increases reflected in 1957 and 1958 totals over previous totals, results from the inclusion for the first time in 1957 of plants primarily engaged in the servicing and overhaul of aircraft. Overhaul and servicing depots maintained and operated by major airlines as part of their transportation system are not included.**Note:** Profits or losses cannot be calculated from the above figures as data are not available for general expenses items, such as interest, rent, depreciation, taxes, insurance, advertising, etc.

TABLE 2. Principal Statistics for the Transportation Equipment Group, by Provinces, 1958 and 1959

Province	Estab- lish- ments	Em- ployees	Salaries and wages for year	Cost of fuel and electricity at works	Cost of materials at works	Value added by manufacture ¹	Gross selling value of products at works
1958	number		dollars				
Newfoundland	6	331	1,137,853	39,911	601,304	1,077,494	1,718,709
Prince Edward Island	2						
Nova Scotia	64	4,488	15,502,226	689,059	17,166,765	21,954,700	39,682,536
New Brunswick	9	1,860	6,801,010	339,400	9,108,140	7,978,842	17,407,996
Quebec	114	32,149	135,946,506	4,525,800	185,879,654	197,580,848	387,416,167
Ontario	265	72,703	336,059,974	13,557,303	891,788,472	580,882,660	1,504,740,337
Manitoba	30	6,334	22,987,061	759,225	22,553,494	29,008,138	52,467,718
Saskatchewan	3	11	38,182	2,593	19,913	63,782	86,452
Alberta	27	3,226	12,283,157	221,166	11,880,042	14,015,887	26,157,640
British Columbia	106	4,874	22,669,563	615,692	14,571,603	30,944,755	46,230,229
Canada	626	125,976	553,425,532	20,750,149	1,153,569,387	883,507,106	2,075,907,784
1959	number		dollars				
Newfoundland	6	317	1,150,272	32,593	644,117	1,052,148	1,728,858
Prince Edward Island	3	38	93,205	5,702	84,453	121,360	206,135
Nova Scotia	68	4,020	14,659,351	700,263	12,788,464	20,256,854	33,881,788
New Brunswick	11	1,659	6,732,919	320,554	10,397,664	7,754,644	18,475,748
Quebec	111	30,727	137,024,422	4,240,675	156,905,844	181,543,756	342,254,429
Ontario	268	62,928	312,257,118	13,283,814	880,866,959	619,963,360	1,486,081,799
Manitoba	33	5,850	22,978,527	746,252	24,772,564	27,858,881	53,226,514
Saskatchewan	3	57	138,150	3,886	206,032	572,928	681,348
Alberta	29	3,194	12,842,086	204,706	13,671,719	14,529,871	28,132,384
British Columbia	113	4,816	23,511,537	644,762	19,944,771	37,293,531	57,526,788
Canada	645	113,606	531,587,587	20,183,207	1,120,282,587	910,947,333	2,022,195,705

¹ See note to text.

TABLE 3. Inventories¹ in the Transportation Group, by Industries, 1959

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
	dollars			
Opening:				
Aircraft	32,172,097	14,168,567	4,546,507	50,887,171
Bicycles	567,976	743,847	614,925	1,926,748
Boat building	1,704,644	795,314	1,496,649	3,996,607
Motor vehicles	8,461,926	50,910,698	16,593,617	75,966,241
Motor vehicle parts	22,439,900	14,154,148	11,269,748	47,863,796
Railway rolling stock	35,001,857	12,540,847	1,564,411	49,107,115
Shipbuilding	12,950,475	11,390,811	154,604	24,495,890
Miscellaneous	1,352,603	261,500	592,470	2,206,573
Total transportation equipment	114,651,478	104,965,732	36,832,931	256,450,141
Closing:				
Aircraft	25,751,915	17,058,535	4,846,597	47,657,047
Bicycles	826,324	1,498,363	726,998	3,051,685
Boat building	1,500,537	940,159	1,343,946	3,784,642
Motor vehicles	12,207,452	64,858,801	24,452,692	101,518,945
Motor vehicle parts	26,146,916	16,865,368	14,911,492	57,923,776
Railway rolling stock	31,974,972	8,349,819	1,292,182	41,616,973
Shipbuilding	12,393,329	18,629,316	191,319	31,213,964
Miscellaneous	1,296,362	219,881	832,638	2,348,881
Total transportation equipment	112,097,807	128,420,242	48,597,864	289,115,913

¹ See footnote 1 below.TABLE 4. Inventories¹ in the Transportation Group, by Provinces, 1959

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
	dollars			
Opening:				
Newfoundland and Prince Edward Island	30,040	15,685	13,882	59,607
Nova Scotia	2,331,773	3,595,318	324,719	6,251,810
New Brunswick	658,187	570,999	83,523	1,312,709
Quebec	34,238,685	15,244,146	2,872,269	52,355,100
Ontario	59,883,175	81,918,578	32,166,486	173,968,239
Manitoba	7,053,869	814,657	544,039	8,412,565
Saskatchewan	20,510	—	9,067	29,577
Alberta	4,000,449	77,106	394,957	4,472,512
British Columbia	6,434,790	2,729,243	423,989	9,588,022
Canada	114,651,478	104,965,732	36,832,931	256,450,141
Closing:				
Newfoundland and Prince Edward Island	36,127	22,976	16,539	75,642
Nova Scotia	1,806,922	1,749,915	170,742	3,727,579
New Brunswick	466,020	434,273	65,597	965,890
Quebec	33,073,454	21,283,817	3,163,872	57,521,143
Ontario	58,522,336	96,459,251	43,160,556	198,142,143
Manitoba	8,064,985	1,088,082	692,648	9,845,715
Saskatchewan	140,264	—	110,565	250,829
Alberta	3,907,514	101,945	646,798	4,656,257
British Columbia	6,080,185	7,279,983	570,547	13,930,715
Canada	112,097,807	128,420,242	48,597,864	289,115,913

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 Transportation Equipment group for the year under review are shown in Tables 3 and 4.

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 group 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 group.

TRANSPORTATION EQUIPMENT

TABLE 5. Employees and Earnings in the Transportation Equipment Group, by Industries, 1958 and 1959

Industry	Employees					Earnings		
	Supervisory and office		Production and related workers		Total	Supervisory and office	Production and related workers	Total
	Male	Female	Male	Female				
	number					thousands of dollars		
1958								
Aircraft	11,776	3,274	24,288	594	39,932	78,896,742	103,380,135	182,276,877
Bicycles	123	63	431	55	672	837,735	1,659,980	2,497,715
Boat building	308	71	1,338	16	1,733	1,189,687	4,084,137	5,273,824
Motor vehicles	5,831	1,437	18,795	333	26,396	42,423,389	87,295,304	129,718,693
Motor vehicle parts	3,149	1,032	12,140	1,811	18,132	22,597,535	55,133,236	77,730,771
Railway rolling stock	2,476	295	19,569	34	22,374	14,922,642	73,031,127	87,953,769
Shipbuilding	1,919	526	13,646	41	16,132	11,360,656	54,522,434	65,883,090
Miscellaneous	75	31	389	110	605	636,642	1,454,151	2,090,793
Total transportation equipment	25,657	6,729	90,596	2,994	125,976	172,865,028	380,560,504	553,425,532
1959								
Aircraft	8,013	2,324	17,695	484	28,516	60,256,779	82,228,125	142,484,904
Bicycles	100	68	518	55	741	911,978	2,174,719	3,086,697
Boat building	366	67	1,326	15	1,774	1,386,104	4,169,076	5,555,180
Motor vehicles	5,750	1,428	20,938	345	28,461	45,089,019	101,867,306	146,956,325
Motor vehicle parts	3,172	1,000	12,687	2,026	18,885	23,303,563	61,894,944	85,198,507
Railway rolling stock	2,373	253	17,585	37	20,248	15,122,440	68,557,869	83,680,309
Shipbuilding	1,840	498	11,918	35	14,291	11,543,348	50,557,191	62,100,539
Miscellaneous	82	70	446	92	690	870,604	1,654,522	2,525,126
Total transportation equipment	21,696	5,708	83,113	3,089	113,606	158,483,835	373,103,752	531,587,587

TABLE 6. Employees and Earnings in the Transportation Equipment Group, by Provinces, 1958 and 1959

Province	Employees					Earnings		
	Supervisory and office		Production and related workers		Total	Supervisory and office	Production and related workers	Total
	Male	Female	Male	Female				
	number					thousands of dollars		
1958								
Newfoundland	29	2	300	..	331	128,601	1,009,252	1,137,853
Prince Edward Island								
Nova Scotia	389	160	3,899	40	4,488	2,123,301	13,378,925	15,502,226
New Brunswick	250	28	1,574	8	1,860	1,016,277	5,787,733	6,801,010
Quebec	6,521	1,421	23,866	341	32,149	42,809,107	93,137,399	135,946,506
Ontario	16,710	4,562	48,913	2,518	72,703	116,140,329	219,919,645	336,059,974
Manitoba	759	202	5,332	41	6,334	4,186,221	18,800,840	22,987,061
Saskatchewan	6	..	5	..	11	19,781	18,401	38,182
Alberta	328	151	2,708	39	3,226	2,112,949	10,170,208	12,283,157
British Columbia	665	203	3,999	7	4,874	4,328,462	18,341,101	22,669,563
Canada	25,657	6,729	90,596	2,994	125,976	172,865,028	380,560,504	553,425,532
1959								
Newfoundland	27	..	290	..	317	117,390	1,032,882	1,150,272
Prince Edward Island	5	3	29	1	38	23,301	69,904	93,205
Nova Scotia	396	155	3,443	26	4,020	2,235,866	12,623,485	14,859,351
New Brunswick	289	35	1,327	8	1,659	1,269,172	5,463,747	6,732,919
Quebec	6,280	1,328	22,772	347	30,727	42,930,489	94,093,933	137,024,422
Ontario	12,905	3,571	43,844	2,608	62,928	100,400,061	211,857,057	312,257,118
Manitoba	776	214	4,805	55	5,850	4,562,313	18,416,214	22,978,527
Saskatchewan	6	1	50	..	57	29,011	109,139	138,150
Alberta	323	183	2,652	36	3,194	2,352,174	10,489,912	12,842,086
British Columbia	689	218	3,901	8	4,816	4,564,058	18,947,479	23,511,537
Canada	21,696	5,708	83,113	3,089	113,606	158,483,835	373,103,752	531,587,587

TABLE 7. Wage-earners Employed in the Transportation Equipment Group, by Months 1959

Month	Establishments reporting monthly detail ¹		Establishments reporting quarterly detail ²	
	Male	Female	Male	Female
January	86,305	3,422		
February	81,742	3,283		
March	84,435	3,271	167	—
April	85,563	3,274		
May	84,859	3,284		
June	85,902	3,152	181	—
July	80,529	2,086		
August	70,579	2,644		
September	80,320	2,964	165	—
October	81,992	3,094		
November	69,922	2,382		
December	77,591	3,018	145	—
Average for establishments reporting monthly detail			80,805	3,003
Average for establishments reporting quarterly detail			168	—
Average estimated for small establishments ³			2,140	86
Average for all establishments			83,113	3,089

¹ The number of production workers, by months, was collected only for larger establishments.² The number of production workers, by quarters, was collected only for medium sized establishments.³ Small establishments were not asked to report details of employment.

Note: For data by industries for 1959 refer to separate industry reports.

TABLE 8. Alphabetical List of Materials Used in the Industries in the Transportation Equipment Group, 1958 and 1959

Note: The figures given for the individual items which are listed below are incomplete for the group, as the detailed breakdown of materials used in the motor vehicles and aircraft industries is not available.

Material		1958		1959	
		Quantity	Cost at works	Quantity	Cost at works
			\$		\$
Aluminum, all forms	lb.	10,173,031	4,100,833	9,182,014	3,957,003
Babbitt metal and solders	"	1,195,544	546,474	1,410,402	613,987
Bars and rods, steel, except alloy	ton	63,418	10,995,654	64,412	11,054,121
Boilers, purchased .....	..	..	759,753	..	616,316
Brass and bronze, all forms	lb.	14,724,257	6,952,888	14,345,029	6,899,494
Coke (charged to cupolas, etc.)	ton	30,791	1,008,006	32,845	1,114,968
Copper, all forms	lb.	7,689,809	3,575,031	8,379,584	4,128,188
Core oil	imp. gal.	70,419	69,719	76,225	75,073
Cupola blocks and firebrick .....	..	..	102,451	..	96,070
Electrical goods (including motors) .....	..	..	2,989,239	..	2,503,514
Engines, purchased .....	..	..	5,903,957	..	4,774,047
Fabrics .....	..	..	165,984	..	215,775
Ferro-alloys .....	..	..	372,597	..	516,155
Fireclay	ton	2,393	69,746	2,117	71,675
Iron, pig	"	31,578	2,009,422	34,422	2,185,837
Iron and steel, n.e.s., except alloy .....	..	..	20,784,826	..	18,362,722
Lead, all forms	lb.	180,897	36,304	501,020	79,445
Lumber and timber	M bd. ft.	60,789	8,124,035	55,105	6,679,605
Machinery (auxiliary), purchased .....	..	..	6,807,471	..	5,790,255
Metals, non-ferrous, n.e.s. ....	..	..	83,043	..	68,620
Nickel, all forms	lb.	844,466	669,749	1,313,585	1,016,668
Paints, oils and varnishes .....	..	..	2,761,045	..	2,558,799
Parts for bicycles .....	..	..	653,314	..	633,620
Parts for railway cars and locomotives .....	..	..	53,020,940	..	40,086,181
Pipe, tubes and fittings, iron and steel .....	..	..	6,896,619	..	6,106,419
Plates, steel (3/16" and thicker), except alloy	ton	112,422	16,821,871	112,088	16,203,198
Plumbago and graphite	lb.	291,135	27,424	286,635	25,347
Plywood	M surface ft.	1,067	288,456	1,388	296,476
Sands, moulding	ton	6,935	92,114	5,156	68,038

TABLE 8. Alphabetical List of Materials Used in the Industries in the Transportation Equipment Group, 1958 and 1959 - Concluded

Material		1958		1959	
		Quantity	Cost at works	Quantity	Cost at works
			\$		\$
Sands, core.....	ton	25,940	90,407	28,499	98,301
Scrap, iron and steel:					
Own make	"	55,464	2,370,392	65,672	2,717,777
Purchased	"	109,271	4,445,319	114,061	4,320,472
Sheets, steel:					
Galvanized	"	9,156	1,576,778	10,070	1,728,457
Plain (black), except alloy	"	50,312	7,631,791	62,345	9,139,149
Tinplate	"	482	95,815	984	194,427
Springs, railway car .....		..	914,213	..	734,420
Strip, steel, except alloy	ton	21,808	3,720,991	24,856	4,274,689
Structural shapes, steel, except alloy	"	51,661	7,492,894	47,531	7,127,489
Steel, alloy, all kinds .....		..	8,519,364	..	9,849,642
Tin	lb.	19,507	20,656	26,216	28,285
Tubing for bicycle frames .....		..	25,179	..	...
Veneer	M surface ft.	6,407	225,905	3,759	158,475
Wheels (carriage, wagon, etc.)	No.	3,700	28,475	766	6,115
Wheels for railway cars .....		..	13,146,664	..	11,726,971
Wire, steel, except alloy	ton	4,907	1,079,392	5,449	1,228,192
Zinc, all forms	lb.	3,182,705	591,572	2,491,497	475,713
Containers and packing materials .....		..	2,104,522	..	2,091,128
All materials used in aircraft manufacturing industry .....		..	176,538,577	..	127,937,264
All materials used in automobile manufacturing industry .....		..	571,501,488	..	591,068,962
All other materials .....		..	194,760,028	..	208,579,043
Totals .....		...	1,153,569,387	...	1,120,282,587

TABLE 9. Principal Statistics of the Transportation Equipment Group, classified according to Size of Establishment, 1959

Size group	Estab-lish-ments	Em-employees	Salaries and wages	Cost of fuel and electricity	Cost at plant of materials used	Selling value of factory shipments
	number			dollars		
(a) Gross production or factory shipments						
Under \$10,000	68	90	178,626	10,360	135,971	364,353
\$ 10,000 to \$ 24,999	96	300	719,428	41,788	573,769	1,527,066
25,000 " 49,999	63	327	940,963	61,217	898,419	2,196,196
50,000 " 99,999	66	606	1,911,427	97,474	2,011,193	4,726,837
100,000 " 199,999	78	1,340	4,636,479	224,304	4,471,950	11,278,402
200,000 " 499,999	75	2,382	9,048,276	393,062	10,895,346	23,695,049
500,000 " 999,999	53	3,498	14,266,195	483,434	15,988,085	38,865,661
1,000,000 " 4,999,999	95	18,361	76,119,949	2,811,231	100,644,575	227,092,381
5,000,000 and over	51	86,402	421,342,552	16,060,337	984,662,379	1,712,449,760
Head offices	-	300	2,423,692	-	-	-
Totals	645	113,606	531,587,587	20,183,207	1,120,282,587	2,022,195,705
(b) Employees						
Under 5 employees	194	461	1,264,985	79,134	2,982,130	5,272,204
5 to 14	133	1,143	3,794,883	189,266	4,976,829	11,171,494
15 " 49	132	3,717	13,564,689	624,602	19,918,233	41,401,663
50 " 99	59	4,253	17,837,135	633,669	25,148,182	56,522,453
100 " 199	48	7,068	28,645,229	1,193,785	44,393,556	95,995,504
200 " 499	34	11,259	50,265,305	2,338,454	80,324,095	166,404,061
500 " 999	23	16,035	72,161,577	2,974,166	174,009,498	285,283,323
1,000 " 1,499	7	8,362	36,343,484	1,387,725	31,306,731	80,809,813
1,500 and over	15	61,008	305,286,608	10,762,406	737,223,333	1,279,335,190
Head offices	-	300	2,423,692	-	-	-
Totals	645	113,606	531,587,587	20,183,207	1,120,282,587	2,022,195,705

TABLE 10. Fuel and Electricity Used in the Manufacture of Transportation Equipment in Canada, 1959

Kind		Quantity	Cost at plant
			\$
1. Establishments reporting commodity detail:			
Bituminous coal (a) From Canadian mines	ton	42,629	498,943
(b) Imported	"	450,076	4,426,184
Anthracite coal	"	11,982	131,639
Lignite coal	"	85,775	173,802
Coke	"	6,571	206,734
Gasoline (including gasoline used in cars and trucks)	Imp. gal.	3,975,867	1,240,076
Fuel oil including kerosene or coal oil	"	31,180,755	3,156,831
Wood	cord	830	7,510
Gas (a) Liquefied petroleum gases	Imp. gal.	1,128,788	204,457
(b) Other manufactured gas	M. cu. ft.	54,181	53,774
(c) Natural gas	"	1,486,317	1,034,270
Other fuel	"	..	756,743
Electricity purchased	kwh.	784,101,701	7,611,132
Steam purchased	"	..	195,394
2. Establishments reporting group detail:			
Cost of fuel		...	12,430
Cost of electricity		...	11,455
3. Estimate for establishments for which no data were collected:			
Cost of fuel and electricity		...	461,833
4. All establishments:			
Total cost of fuel and electricity		...	20,183,207

Note: For data by Industries for 1959 refer to separate industry reports.

TABLE 11. New Investment in Durable Physical Assets and Repair and Maintenance, in the Transportation Equipment Group, 1955 - 59

Year	New investment			Repair and maintenance			Total
	Con- struction	Machinery and equipment	Sub-total	Con- struction	Machinery and equipment	Sub-total	
	millions of dollars						
1955.....	20.2	34.1	54.3	10.5	28.0	38.5	92.8
1956.....	16.7	43.6	60.3	10.6	32.0	42.6	102.9
1957.....	18.0	44.2	62.2	11.6	33.9	45.5	107.7
1958.....	16.6	37.7	54.3	10.4	30.7	41.1	95.4
1959.....	20.5	45.2	65.7	10.2	33.5	43.7	109.4

Note: Data for 1959 shown above are final and may differ slightly from the preliminary figures shown in the separate industry bulletins.

Note: For data on production of transportation equipment in 1959 refer to the separate industry reports in this series as outlined on the back of the cover page of this report. The more important items and the pertinent Tables are as follows:

	Catalogue No. (Annual)	Table
Aircraft	42-203	4
Bicycles	42-204	3
Motor vehicles	42-209	3 and 4
Motor vehicle parts	42-210	5
Naval and commercial vessels	42-206	3
Railway cars and locomotives	42-211	3
Row boats, canoes, etc.	42-205	4

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