

CATALOGUE No.

53-207

ANNUAL

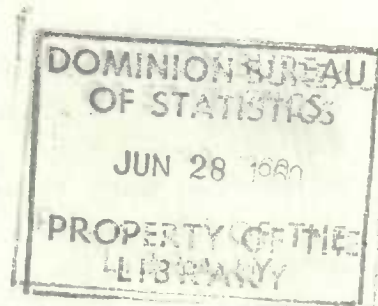
C. 3



CANADA

# MOTOR TRANSPORT TRAFFIC NATIONAL ESTIMATES

1958



*Published by Authority of*  
The Honourable Gordon Churchill, Minister of Trade and Commerce

**DOMINION BUREAU OF STATISTICS**

Public Finance and Transportation Division

Transportation Section

June, 1960  
8504-565

Price: 75 cents

Reports Published by the  
Public Finance and Transportation Division  
dealing with

**ROAD TRANSPORT**

Catalogue number	Title	Price
53-001	Motor Vehicle Traffic Accidents—quarterly .....	.50, (\$2.00 a year)
53-002	Passenger Bus Statistics—Intercity and Rural—monthly .....	.10, (\$1.00 a year)
53-003	Urban Transit—monthly .....	.10, (\$1.00 a year)
53-201	Road and Street Mileage and Expenditure—annual .....	.50
53-202	International Toll Bridges, Tunnels and Ferries—annual .....	.50
53-203	Motor Vehicle—annual .....	.75
53-204	Motor Vehicle—Preliminary Report of Registrations, and Size, Weight and Safety Regulations—annual .....	.50
53-205	Motor Carriers—Freight—annual .....	.50
53-206	Motor Vehicle Traffic Accidents—annual .....	.75
53-207	Motor Transport Traffic: National Estimates—annual .....	.75
53-208	Motor Transport Traffic: Atlantic Provinces—annual .....	.50
53-209	Motor Transport Traffic: Quebec—annual .....	.50
53-210	Motor Transport Traffic: Ontario—annual .....	.50
53-211	Motor Transport Traffic: Manitoba—annual .....	.50
53-212	Motor Transport Traffic: Saskatchewan—annual .....	.50
53-213	Motor Transport Traffic: Alberta—annual .....	.50
53-214	Motor Transport Traffic: British Columbia—annual .....	.50
53-215	Passenger Bus Statistics—annual .....	.50
53-216	Urban Transit—annual .....	.50

*Subscription orders should be sent to the Information Services  
Division, Dominion Bureau of Statistics, Ottawa, Canada, with  
enclosed remittances made payable to the Receiver General of  
Canada.*

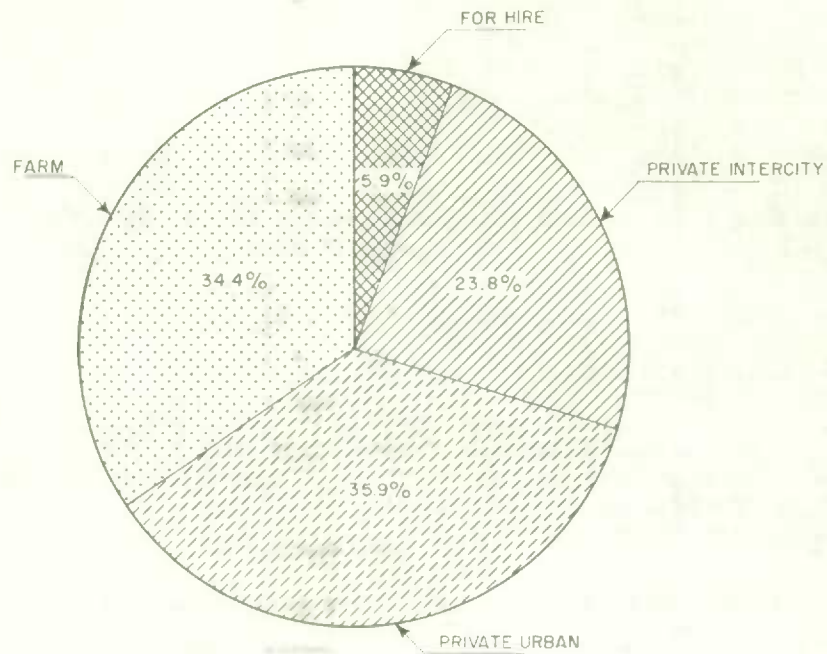
## TABLE OF CONTENTS

	Page
Chart 1. Truck Registrations by Type of Operation .....	4
2. Net Ton Miles by Type of Operation .....	4
3. Tons Carried by Type of Operation .....	5
4. Intercity Traffic by Commodity Group — Tons of Goods Carried .....	6
Introduction.....	7
<b>Section I. Total Truck Traffic by Canadian Registered Trucks, 1958</b>	
Table 1. All Trucks by Type of Operation .....	
A. 1958 B. 1957 (Revised) .....	12
Table 2. All Trucks by Gross Vehicle Weight Group .....	
A. 1958 B. 1957 (Revised) .....	13
Table 3. All Trucks by Province .....	14
Table 4. For Hire Trucks by Province .....	15
Table 5. Selected Statistics of For Hire Trucks by Gross Vehicle Weight Group .....	16
Table 6. Private Intercity Trucks by Province .....	16
Table 7. Selected Statistics of Private Intercity Trucks by Gross Vehicle Weight Group .....	17
Table 8. Private Urban Trucks by Province .....	17
Table 9. Farm Trucks by Province .....	18
<b>Section II. Intraprovincial Traffic by For Hire and Private Intercity Trucks in Canada, 1958</b>	
Table 10. Selected Statistics of Intercity Traffic by Gross Vehicle Weight Group .....	18
Table 11. Selected Statistics of Intercity Traffic by Commodity Group .....	19
<b>Section III. Interprovincial and International Traffic by Canadian Registered Trucks, 1958</b>	
Table 12. Goods Carried by Province of Origin and Destination .....	19
Table 13. Selected Statistics by Gross Vehicle Weight Group .....	20
Table 14. Selected Statistics by Commodity Group .....	20
<b>Appendix:</b>	
I. Average Truck Population in Canada by Province, Type of Operation and Gross Vehicle Weight Group, 1958.....	21
II. Survey Response, by Type of Operation and Province, 1958 .....	22
III. Reliability of Motor Transport Statistics, 1958 .....	22
IV. Commodity Classification .....	23
V. Description of Vehicle Classifications, 1958 .....	24
VI. Trucking Survey Questionnaire, 1958 .....	25

MOTOR TRANSPORT TRAFFIC  
NATIONAL ESTIMATES  
1958

CHART - 1

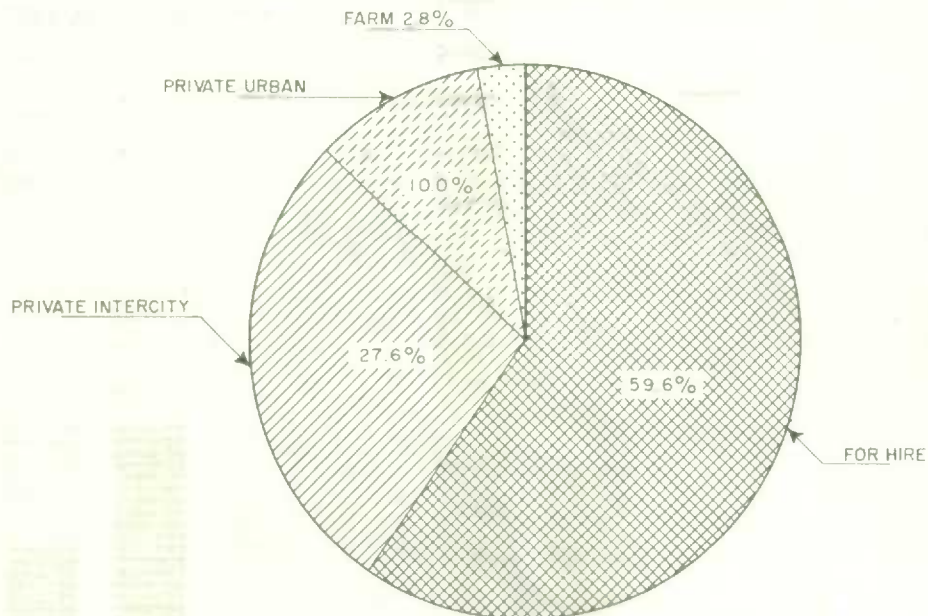
TRUCK REGISTRATIONS BY TYPE OF OPERATION



Source: Appendix I.

CHART - 2

NET TON MILES BY TYPE OF OPERATION

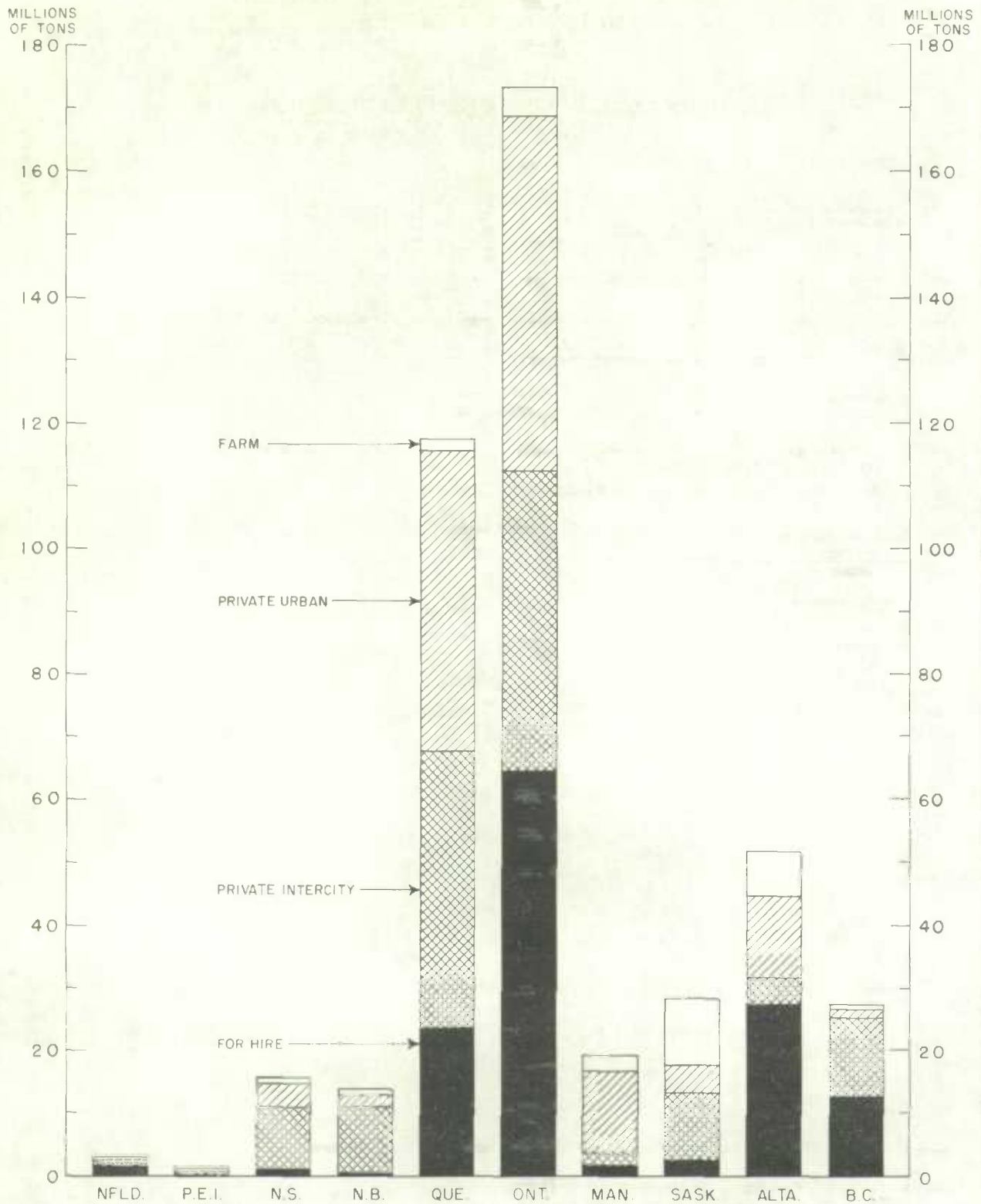


Source: Section I, Table I.



CHART - 3

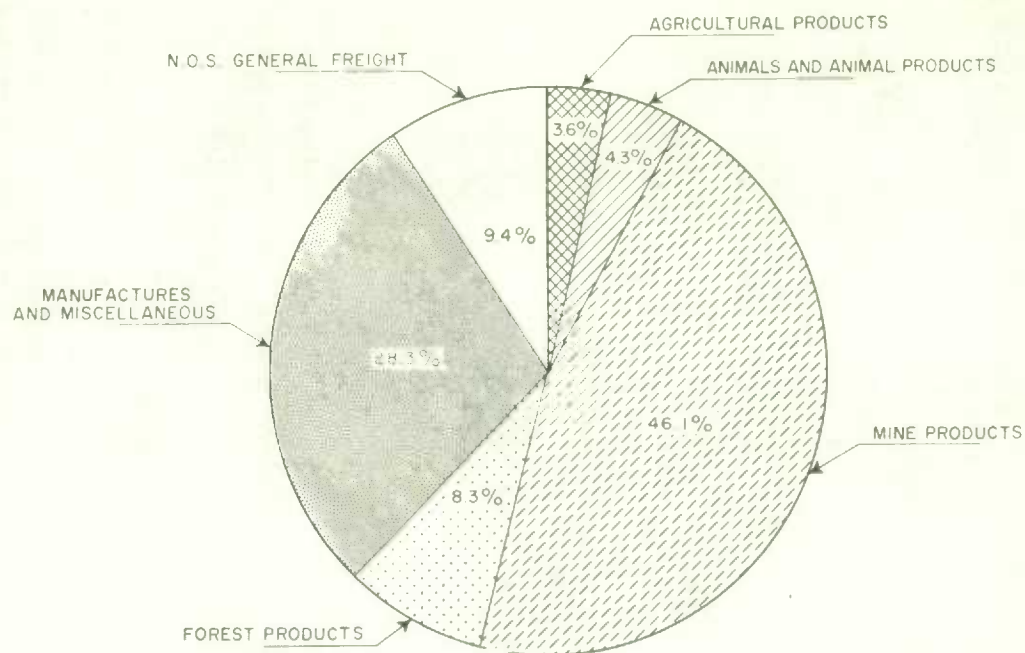
# TONS CARRIED BY TYPE OF OPERATION



Source: Section I, Tables 4, 6, 8 and 9

CHART - 4

## INTERCITY TRAFFIC BY COMMODITY GROUP — TONS OF GOODS CARRIED



Source: Section II, Table II

## INTRODUCTION

This report presents the results of sample surveys conducted in each of the ten provinces during one week of each quarter of 1958. Truck transport statistics published in provincial and regional reports for 1958 have been summarized herein. National intercity bus traffic estimates are not included in this report as reliable statistics have not been collected in all ten provinces.

These motor transport traffic surveys have been made possible through the invaluable co-operation of provincial government departments, particularly motor vehicle registration branches, together with the assistance of the Canadian Trucking Associations and its provincial affiliates and several interested organizations and individuals who appreciate the need for comprehensive traffic data on Canadian truck transport.

Information on the history of the Motor Transport Traffic Surveys and an explanation of some of the technical problems encountered in their development may be found in "Motor Transport Traffic Statistics, National Estimates, 1957".

### Organization and Description of the Sample

Samples of commercial vehicles are selected quarterly from motor vehicle registration records in each of the ten provinces and are stratified by six weight groups: 0-2½ tons; 2½-5; 5-7½; 7½-10; 10-15; over 15 tons. Where the registration system permits, vehicles are selected from distinct licence categories corresponding to those established in the motor transport traffic survey. The licensing arrangement in Manitoba most closely resembles the classification of vehicles in the survey but even there it was not possible to identify vehicles operating interprovincially or internationally. The licensing systems in each of the other provinces differed from that of Manitoba by varying degrees so that in some cases it was necessary to classify trucks according to the replies received in the questionnaires.

Trucks not normally engaged in the transportation of commodities are excluded. Hence the following types of vehicles are eliminated; tow trucks, hearses, ambulances, snowmobiles, farm tractors, cranes, bulldozers, diggers, graders and other road building equipment, military and government owned

vehicles and motor vehicles not required to obtain licences under provincial highway traffic acts.

In order to secure a high rate of response, vehicles were not included in more than one survey per year, although a company with many vehicles might have had trucks in every survey. Furthermore an intensive follow-up procedure has been developed.

The motor vehicle population varies over the course of the year as vehicle registrations are received at provincial motor vehicle branches. Hence the motor transport traffic statistics contained herein are based upon an average annual population. Population estimates for 1958 are to be found in Appendix I.

An overall sample of twelve per cent of Canadian registered trucks used for the transportation of goods was selected during 1958. To allow for seasonal variations and to ensure that the sample vehicles would represent current registrations in force, this annual survey was conducted on a quarterly basis with approximately three per cent of total registrations sampled each quarter. Commencing with the second quarter of 1958, each quarterly sample was spread over three survey weeks with one third of the sample being used for a seven day period, Sunday through Saturday, each month. Previously each quarterly sample was concentrated in one survey week, so that the sample for the year was spread over only four weeks. Statistics compiled for 1958, therefore, have been based on surveys spread over ten weeks to give a fairer representation of truck traffic throughout the year.

In most cases higher sampling ratios were used in the weight groups containing the largest vehicles. The twelve per cent sample of registrations therefore actually represented twenty per cent of the capacity of all vehicles registered. Furthermore, the probability of obtaining more reliable results was increased since the heavy weight classes were involved in more diversified types of operations and accounted for the bulk of net ton miles performed in Canada. During the second and third quarters of 1958 the sample ratios used in the Atlantic Provinces were increased, where group populations were small, in order to provide more reliable results.

The sample selection ratios used in the last two quarters of 1958 for each province were as follows:

Province	Gross vehicle weight groups (pounds)					
	0-5,000	5,001-10,000	10,001-15,000	15,001-20,000	20,001-30,000	Over 30,000
Newfoundland .....	1/24	1/12	1/6	1/6	1/6	1/6
Prince Edward Island .....	1/24	1/12	1/6	1/6	1/6	1/6
Nova Scotia .....	1/6	1/42	1/12	1/12	1/6	1/6
New Brunswick .....	1/6	1/42	1/12	1/12	1/6	1/6
Quebec <sup>1</sup> .....	1/72	1/36	1/24	1/24	1/12	1/12
Ontario .....	1/72	1/36	1/24	1/24	1/12	1/12
Manitoba .....	1/60	1/30 (farm 1/60)	1/20	1/20	1/10	1/10
Saskatchewan .....	1/60	1/30 (farm 1/60)	1/20	1/20	1/10	1/10
Alberta .....	1/72	1/36	1/24	1/24	1/12	1/12
British Columbia <sup>1</sup> .....	1/72	1/36	1/24	1/24	1/12	1/12

<sup>1</sup> Vehicles in Quebec and British Columbia were selected by the following tare weight groups which for the purposes of this series have been made to correspond to the above gross vehicle weight classes: 0-3,300 lb., 3,301-5,800 lb., 5,801-7,300 lb., 7,301-8,550 lb., 8,551-11,050 lb., over 11,050 lb.



Expansion factors, dependent upon the degree of response and predetermined ratios for each gross vehicle weight group, were computed to "blow up" the survey results for each quarter to be representative of total registrations. Annual provincial data were compiled by combining the expanded data for each of the four quarterly surveys.

### Concepts

Statistics which had to be calculated from basic information such as miles travelled, fuel consumed, weight of goods carried and loaded miles are listed below together with the methods used to calculate them. A reproduction of the questionnaire used in 1958 appears in Appendix VI. This should further assist the reader in appreciating the significance of the information included in this report.

**Average yearly mileage per truck**—total annual mileage performed divided by the average number of vehicles registered, during the twelve month period.

**Net ton miles**—were obtained by multiplying the weight of each load carried by the distance it was transported. For vehicles engaged in intercity or rural operations, ton miles were calculated on a trip basis from the log kept during the survey week. For urban operations, the owner or operator was requested to record the weight of the load on the truck at 10:00 a.m. and 3:00 p.m. or other more appropriate hours when a typical load was carried. From this information the average load carried during the week was calculated, which was multiplied by the total miles travelled during the week while loaded, to obtain net ton miles.

**Average distance each ton was carried**—total net ton miles performed divided by total tons of goods carried.

**Percentage of total mileage travelled empty**—annual empty mileage was computed by subtracting loaded miles from total miles for each truck. The annual number of empty miles performed were then taken as a percentage of total miles.

**Miles per gallon of gasoline (or diesel or other fuel) consumed**—total miles travelled during year divided by total gallons of gasoline consumed.

**Average weight carried**—total net ton miles performed divided by miles travelled with a load.

**Average net ton miles per truck**—total net ton miles performed during year divided by average annual truck population.

**Capacity ton miles**—the actual total number of miles travelled multiplied by the estimated capacity or the weight of the heaviest load carried whichever was larger.

**Average capacity ton miles per truck**—total capacity ton miles divided by average annual truck population.

**Percentage of capacity utilized**—net ton miles performed divided by capacity ton miles. This

measures the effective utilization of motor vehicles on a ton mile basis rather than by weight carried.

**Gross ton miles**—weight of the vehicle empty (tare weight) multiplied by total miles travelled plus total net ton miles performed. The tare weight of each vehicle was estimated, except for those in Quebec and British Columbia which were registered by tare weight.

**Average gross ton miles per truck**—total gross ton miles divided by average annual truck population.

### Compilation of National Estimates

#### (a) Duplication of Data

In this report, national estimates are shown in 14 tables divided into 3 sections.

**Section I. Total Truck Traffic by Canadian Registered Trucks, 1958.**

**Section II. Intraprovincial Traffic by For Hire and Private Intercity Trucks in Canada, 1958.**

**Section III. Interprovincial and International Traffic by Canadian Registered Trucks, 1958.**

In Section I all figures are the sum of the traffic performed "inside and outside the province" of registration as published in individual provincial reports. Because some vehicles are registered in more than one province this concept involves some duplication of figures. Movements of Canadian registered trucks in the United States are included, whether they are in transit between Canadian points or are engaged in international trade. This concept also covers trucks operating outside their own province, either under special permit or according to the terms of provincial reciprocal agreements. If the "within the province" concept (followed in the publication of the 1957 National Estimates) had been used these truck operations would have been omitted from the survey. Using the "inside and outside the province" method, 1957 estimates have been revised and included in Tables 1 and 2. As there is a tendency for increasing freedom of interprovincial movement under reciprocal licensing arrangements, the amount of duplication that is due to multiple licensing may be expected to diminish over the years. A summary of reciprocal highway agreements for trucking, current in September, 1959, appears in the D.B.S. publication; "The Motor Vehicle 1958", catalogue number 53-203.

The intraprovincial traffic figures of for hire and private intercity trucks shown in Section II exclude the strictly urban operations of these trucks and the "inside the province" portion of interprovincial and international trips. As they are concerned entirely with trips made solely within the province of registration, there is no scope for licence duplication.

Duplication of interprovincial traffic figures is avoided in Section III by taking 50 per cent of the total of interprovincial operations reported for each



province. As reciprocity of licensing arrangements increases, it may be expected that interprovincial operations on single licences will substantially outweigh the effect of trucks operating with two or more provincial licences. When that is the case it will be necessary to reduce data collected on these operations by some proportion less than the present fifty per cent.

It should be stressed that although it was necessary to reduce interprovincial data to obtain realistic national estimates, it does not follow that the interprovincial traffic reported for any individual province is overstated since the statistics represent the performance of vehicles registered in each particular province. It is only when provincial data are added together that difficulties arise.

#### (b) Weight Classifications

There continues to be some lack of provincial comparability in vehicle weight classifications.

Quebec and British Columbia were in 1958 both licensing trucks by tare weight, while the other provinces used gross vehicle weight. British Columbia commencing in 1960 will, however, license by gross vehicle weight. Where the vehicles were licensed by tare weight the gross vehicle weight was estimated from the recorded tare weight and either the estimated capacity or the heaviest load carried.

In Ontario, since tractors and trailers are licensed separately, the combined gross vehicle weight of the tractor-trailer combination had to be calculated by adding the gross weight of the tractor to the estimated tare weight of the trailer used and the weight of the heaviest load carried during the survey week.

These problems were partly overcome during 1958 when the questionnaire first included a question which asked the respondent to state the maximum gross vehicle weight of the truck or tractor-trailer combination. This question, however, was not always answered reasonably and in some cases estimates had to be calculated as previously.

#### (c) Classification by Type of Operation

In the compilation of statistics for each province, the existing provincial licensing system was used where possible to classify vehicles into the four functional categories of for hire, private inter-city, farm and urban. Unfortunately this method does not provide closely comparable vehicle classes between provinces thus creating a serious problem

in the provision of worthwhile national totals. An examination of the descriptions of the various vehicle classes which have been included in Appendix V will reveal these variations. It may be noted, for example, that in Ontario a common or contract carrier licence is required for the transportation of commodities for compensation on any highway whereas, in Manitoba, such a licence is required for the transportation of commodities for compensation only beyond a 15 mile radius of the place of registration. On the other hand, in Saskatchewan a carrier licence is required only where compensation is received for the transportation of general merchandise on a specified route or charter or for the conveyance of commodities specified by the provincial highway traffic board.

In the case of urban classification, Manitoba and Alberta are the only two provinces which have a separate licence classification for urban trucks. In Manitoba urban trucks may operate within a fifteen mile radius of the place of registration whereas in Alberta such vehicles must operate within a five mile radius. In all other provinces, trucks which do not have a carrier licence and which operate exclusively within an urban area or within a five mile radius thereof as indicated from replies to the survey questionnaires, have been classified as urban. Since most provinces do not require a carrier licence for urban operations, trucks transporting commodities for compensation are included in the urban classification as well as privately operated trucks.

The prairie provinces and Quebec issue separate farm licences to bona fide farmers using the vehicles for farm purposes. However, even among these provinces there are variations in definitions of farmers and commodities which can be transported.

#### Response to Survey

During 1958, survey questionnaires were mailed to the owners or operators of 98,937 motor vehicles as compared with 100,846 in 1957. Of those sent in 1958 44,951 or 45.4 per cent (the same as in 1957) were returned completed and 27,172 or 27.5 per cent (29.5 per cent in 1957) were reported not used. In addition 26,814 or 27.1 per cent were not returned, returned incomplete or not usable. As the questionnaires in the not used category are considered equivalent to completed returns, the total number of usable questionnaires amounted to 72,123 or 72.9 per cent of the sample, as compared with 74.9 per cent in 1957. Non response in 1958 totalled 12,983 or 13.1 per cent as against 10.0 per cent in 1957.

#### Review of Survey Results

The average number of transport trucks and road tractors licensed in Canada, as indicated from provincial registration records, amounted in 1958 to 862,775 as against 832,055 the previous year. The 1958 figure consisted of 50,503 or 5.9 per cent for hire carriers; 205,623 or 23.8 per cent private inter-city trucks; 309,628 or 35.9 per cent private trucks operating predominantly within urban areas; and 297,021 or 34.4 per cent were farm trucks. Almost one third of the total number of trucks were reg-

istered in Ontario and just over one half were registered in the two provinces of Ontario and Quebec.

No figures are shown for certain vehicle groups throughout this report, indicating that no vehicles were selected in any of the ten samples. It does not necessarily follow that there were no vehicles belonging to these categories.

### Section I. Total Truck Traffic by Canadian Registered Trucks

Total miles travelled by transport trucks and road tractors increased by 11.9 per cent to 6,616 million in 1958 from 5,913 million in 1957. Despite the expansion in truck population, this increase in overall mileage raised the average mileage per truck to 7,700 miles in 1958 from 7,100 in the previous year. The average distance each ton of goods was carried increased appreciably to 34.0 miles from only 26.6 miles a year earlier and the proportion of mileage travelled empty remained virtually constant at about one half.

The amount of fuel consumed increased approximately in proportion to the increase in mileage travelled. Gasoline consumption rose by 15.1 per cent to 649,533,000 gallons in 1958 from 564,547,000 in 1957 while a larger proportionate rise of diesel fuel consumption, 35.6 per cent to 50,095,000 gallons in 1958 from 36,950,000 gallons in 1957, reflected a trend towards diesel-powered vehicles.

Nearly three quarters of all trucks registered in Canada had a gross vehicle weight of five tons or under. The average yearly mileage travelled by trucks in this group was generally below those of trucks in other weight groups and they travelled empty approximately 60 per cent of the time, carrying an average load of only one half ton. As a result, net ton miles performed amounted to 747 million or just 5 per cent of the total for all trucks. Therefore, those vehicles with a gross vehicle weight of over five tons, which comprised approximately one quarter of the total trucks registered in 1958, performed 95 per cent of the road transportation services of the country measured in terms of net ton miles.

The total weight of goods carried increased only slightly between the two years, but with longer trips being made the average net ton miles performed by each truck rose to 18,100 in 1958 from 14,400 in 1957 and the total net ton miles performed by all trucks rose to 15,645 million from 12,007 million.

#### For Hire Trucks

This group continued to take the leading part in the movement of goods by road. Charts 1 and 2 show that for hire trucks, which represented only 5.9 per cent of total registrations, performed 59.6 per cent of truck transport net ton miles. For hire units travelled with an average load of 9.9 tons as compared with an average of 4.7 tons for trucks of all types. The same units travelled an average of 66.4 miles on each one-way trip as against 34.0 miles for trucks of all types.

Selected statistics in Table 5 illustrate some of the characteristics of for hire operations. Vehicles with a gross vehicle weight exceeding 20,000 lb. accounted for 64.5 per cent of all trucks in this group. The average distance goods were carried was much greater for those vehicles with a gross vehicle

weight over 30,000 lb. Revenue per ton mile is less for these long distance, larger trucks. The trucks with a gross vehicle weight under 20,000 lb. carried each ton of goods an average distance of 18.5 miles and received a revenue of 19.8¢ per ton mile. In contrast, trucks with a gross vehicle weight over 50,000 lb. transported each ton of freight an average distance of 158.1 miles and received a revenue of 5.5¢ per ton mile.

The Canadian for hire trucking industry accumulated a gross revenue of \$631 million from all its operations. This represented 6.8¢ per ton mile and an average revenue of \$12,500 per truck.

#### Private Intercity Trucks

Vehicles in this group numbered 205,623, or 23.8 per cent of the total number of transport vehicles registered and performed 27.6 per cent of the total net ton miles. Nearly 75 per cent of the net ton miles accumulated by this group were performed by Ontario and Quebec registered trucks and these two provinces have about half of the private intercity trucks registered in Canada. The average yearly mileage of these trucks ranged from 6,000 miles in Newfoundland to 15,500 in Manitoba. As with for hire trucks, vehicles over 50,000 lb. gross vehicle weight carried each ton of freight the farthest distance, the average being 71.4 miles as compared with 31.3 miles for all private intercity trucks.

#### Private Urban Trucks

The number of private urban vehicles registered in 1958 was 309,628 or 35.9 per cent of the total. Their average yearly mileage was 6,800 and their average weight carried was 1.5 tons as compared with a national average annual mileage for all trucks of 7,700 and an average load of 4.7 tons. This group consisted primarily of smaller trucks. This is illustrated clearly in their average mileage per gallon of gasoline which was 11.1 miles as against an average of 9.7 for all trucks despite the fact that they are operated in urban traffic conditions. With only 31.9 per cent of capacity utilized this group had an average performance of only 5,100 net ton miles per truck.

#### Farm Trucks

The majority of farm trucks in Canada, 173,864 or 58.5 per cent, were registered in the prairie provinces, 79,065 or 26.6 per cent of which were in the province of Saskatchewan alone. In each of the prairie provinces farm trucks represented the majority of truck registrations with the highest concentration in Saskatchewan at 78.3 per cent. The average yearly mileage for farm trucks was 3,400 and the average net ton miles performed per truck was 1,500 ton miles. For 70.0 per cent of their total mileage these trucks were travelling empty, as a result of the seasonal nature of farming operations and the many cases where they are used for personal transportation and other work not involving the transportation of goods.



## Section II. Intraprovincial Traffic by For Hire and Private Intercity Trucks

This section summarizes intraprovincial traffic performed in individual provinces by for hire and private intercity trucks registered in those provinces. Statistics included here relate to intercity operations originating and terminating within the border of each province and exclude interprovincial and international traffic as well as traffic performed outside each province in which the vehicles are surveyed.

In terms of net ton miles performed by for hire and private intercity trucks, manufactures and miscellaneous commodities accounted for about half of the total in each case. But whereas each ton of this commodity group was carried approximately 95 miles by for hire vehicles, private intercity trucks transported each ton only about 48 miles. In terms of total weight of goods carried, however, mine products was the main commodity group carried for both classes of vehicle, amounting to a little less than half in each case. Each ton of this commodity was carried an average of 13.6 miles by for hire carriers and 10.3 miles by private intercity carriers. For hire carriers reported a higher average distance per ton for all commodities than private intercity carriers. Their averages for all intraprovincial traffic were 50.7 and 28.1 miles respectively.

## Section III. Interprovincial and International Traffic by Canadian Registered Trucks

As this survey was conducted on a vehicle basis, information was requested regarding the origin and destination of each vehicle rather than the origin and destination of the commodities carried. Therefore, these estimates pertain only to the direct movement of goods across national or provincial boundaries from or to points outside the survey province. Interchange traffic, that is the movement

of goods to border points by one vehicle with transshipment to another vehicle, has not been included. Similarly road tractors which deliver their trailers to border points for transfer to other tractors which, in turn transport them through the adjoining province or state, are excluded from this section.

On the present basis of sampling motor transport traffic, comparatively few trucks engaged in interprovincial and international traffic are included in these surveys and as a result wholly reliable estimates of such traffic have not been obtained. The data in this section of the report should be used, therefore, with considerable caution.

For hire trucks engaged in interprovincial traffic carried 3,234,000 tons of commodities, of which more than 65 per cent were transported between the provinces of Quebec and Ontario. Private intercity trucks transported 957,000 tons of goods between provinces, of which 78 per cent was moved between Quebec and Ontario.

Exports to the United States carried by Canadian registered trucks amounted to 956,000 tons and imports by Canadian trucks from the United States totalled 720,000 tons. Of the total goods carried by for hire trucks in interprovincial and international service, 48 per cent were manufactures and miscellaneous products and 34 per cent were n.o.s. general freight. The main classes of commodity carried by private intercity trucks on interprovincial and international trips were manufactures and miscellaneous products (52 per cent) and forest products (23 per cent). The average length of haul for each ton of goods carried beyond provincial and national limits was 487 miles in the case of for hire trucks and 221 miles for private intercity trucks. These figures may be compared with 51 and 28 miles respectively for intraprovincial movements.

## Reliability of Motor Transport Traffic Statistics

### (a) Non-Sampling Variability

A certain amount of variance in motor transport traffic statistics arises from non-sampling factors including improper reporting by the respondent due to misinterpretation of questions or deliberate misstatements. Also, the respondent may not keep accurate records of traffic performed. The effect of these factors cannot be measured without a further follow-up and re-enumeration of the statistics reported.

### (b) Sampling Variability

Estimates for sampling error are shown in Appendix 3 for the following class totals (1) mileage travelled (2) weight of goods carried (3) net ton miles

and (4) revenue earned. These calculations have been made using a confidence limit of two standard deviations (i.e. allowing 95 out of 100 chances that the stated range contains the true value). The stability of the data varies according to the type of statistics involved and the number of trucks reporting in each category. Hence statistics of class totals are considered more reliable than those for any particular weight and national estimates offer more reliability than similar figures published for each province. Of the various types of data presented, the most stable statistics were "total mileage travelled" while variability seemed greatest for "weight of goods carried".

April 22, 1960.



## SECTION I. TOTAL TRUCK TRAFFIC BY CANADIAN REGISTERED TRUCKS, 1958

TABLE 1. All Trucks by Type of Operation  
A. 1958

		For hire	Private			Total
			Intercity	Urban	Farm	
<b>Mileage:</b>						
Total mileage travelled.....	'000	1,299,274	2,205,415	2,090,989	1,020,334	6,616,012
Average yearly mileage per truck .....		25,700	10,700	6,800	3,400	7,700
Average distance each ton was carried .....		86.4	31.3	10.3	15.1	34.0
Percentage of total mileage travelled empty .....		27.5	54.5	49.9	70.0	50.1
<b>Fuel:</b>						
Total gallons of gasoline consumed .....	'000	164,062	217,633	187,373	80,465	649,533
Miles per gallon of gasoline .....		6.3	9.9	11.1	12.7	9.7
Total gallons of diesel oil consumed .....	'000	42,368	7,135	592	—	50,095
Miles per gallon of diesel oil .....		6.3	6.4	5.2	—	6.3
Total gallons of other fuel consumed .....	'000	163	480	—	—	643
Miles per gallon of other fuel.....		6.8	7.1	—	—	7.0
<b>Weight of goods carried:</b>						
Total tons of goods carried .....	'000	140,405	137,907	152,565	29,416	460,313
Average weight carried <sup>1</sup> .....	ton	9.9	4.3	1.5	1.5	4.7
<b>Net ton miles:</b>						
Total net ton miles performed .....	'000	9,326,756	4,309,895	1,565,335	443,297	15,645,283
Average net ton miles per truck .....		184,700	21,000	5,100	1,500	18,100
<b>Capacity ton miles:</b>						
Total capacity ton miles <sup>2</sup> .....	'000	17,592,837	10,441,695	4,913,050	1,838,072	34,785,654
Average capacity ton miles per truck .....		348,400	50,800	15,900	6,200	40,300
Percentage of capacity utilized.....		53.0	41.3	31.9	24.1	45.0
<b>Gross ton miles:</b>						
Total gross ton miles <sup>3</sup> .....	'000	18,760,149	11,747,997	6,721,037	2,688,876	39,918,059
Average gross ton miles per truck .....		371,500	57,100	21,700	9,100	46,300
<b>Revenue:</b>						
Total revenue .....	\$'000	630,999	—	—	—	—
Revenue per ton mile.....	¢	6.8	—	—	—	—
Revenue per mile (total mileage travelled) .....	¢	48.6	—	—	—	—
Average revenue per truck .....	\$	12,500	—	—	—	—
Average annual population .....		50,503	205,623	309,628	297,021	862,775

TABLE 1. All Trucks by Type of Operation  
B. 1957 (Revised)

		For hire	Private			Total
			Intercity	Urban	Farm	
<b>Mileage:</b>						
Total mileage travelled.....	'000	1,044,861	2,157,152	1,727,339	983,862	5,913,212
Average yearly mileage per truck .....		22,500	10,000	6,200	3,400	7,100
Average distance each ton was carried .....		52.3	25.8	8.6	13.6	26.6
Percentage of total mileage travelled empty .....		29.6	56.1	45.5	65.7	49.9
<b>Fuel:</b>						
Total gallons of gasoline consumed .....	'000	133,574	203,086	153,563	74,324	564,547
Miles per gallon of gasoline .....		6.4	10.4	11.2	13.2	10.1
Total gallons of diesel oil consumed .....	'000	30,152	5,919	879	—	36,950
Miles per gallon of diesel oil .....		6.0	6.2	5.9	—	6.0
Total gallons of other fuel consumed .....	'000	542	849	12	—	1,403
Miles per gallon of other fuel .....		5.7	6.6	6.5	—	6.3
<b>Weight of goods carried:</b>						
Total tons of goods carried .....	'000	127,793	139,980	154,930	28,567	451,270
Average weight carried <sup>1</sup> .....	ton	9.1	3.8	1.4	1.2	4.1
<b>Net ton miles:</b>						
Total net ton miles performed .....	'000	6,685,590	3,604,694	1,327,743	389,103	12,007,130
Average net ton miles per truck .....		144,300	16,800	4,800	1,300	14,400
<b>Capacity ton miles:</b>						
Total capacity ton miles <sup>2</sup> .....	'000	13,416,422	9,227,106	4,273,070	1,683,551	28,600,149
Average capacity ton miles per truck .....		289,500	42,900	15,300	5,800	34,400
Percentage of capacity utilized .....		49.8	39.1	31.1	23.1	42.0
<b>Gross ton miles:</b>						
Total gross ton miles <sup>3</sup> .....	'000	13,608,676	10,378,487	5,682,958	2,501,393	32,171,514
Average gross ton miles per truck .....		293,600	48,300	20,400	8,600	38,700
<b>Revenue:</b>						
Total revenue .....	\$'000	490,905	—	—	—	—
Revenue per ton mile .....	¢	7.3	—	—	—	—
Revenue per mile (total mileage travelled) .....	¢	47.0	—	—	—	—
Average revenue per truck .....	\$	10,600	—	—	—	—
Average annual population .....		46,344	214,992	278,891	291,828	832,055

See footnotes page 18.

TABLE 2. All Trucks by Gross Vehicle Weight Group  
A. 1958

	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	15-25 tons	Over 25 tons	Total
<b>Mileage:</b>								
Total mileage travelled .....	'000 2,078,032	1,736,419	351,957	525,741	667,992	649,308	606,563	6,616,012
Average yearly mileage per truck .....	6,000	6,000	5,900	7,100	12,300	24,000	50,200	7,700
Average distance each ton was carried .....	20.1	16.8	13.7	15.7	16.4	37.3	126.1	34.0
Percentage of total mileage travelled empty .....	68.2	54.9	37.3	37.9	40.6	32.5	22.1	50.1
<b>Fuel:</b>								
Total gallons of gasoline consumed .....	'000 138,635	143,929	37,282	65,193	92,793	97,775	73,926	649,533
Miles per gallon of gasoline .....	15.0	12.1	9.4	8.1	7.1	5.8	5.2	9.7
Total gallons of diesel oil consumed .....	'000 —	—	—	—	1,351	13,818	34,926	50,095
Miles per gallon of diesel oil .....	—	—	—	—	7.6	6.1	6.3	6.3
Total gallons of other fuel consumed .....	'000 —	21	—	91	373	125	33	643
Miles per gallon of other fuel .....	—	8.2	—	9.2	6.9	5.9	5.0	7.0
<b>Weight of goods carried:</b>								
Total tons of goods carried .....	'000 11,089	31,128	31,615	70,563	141,096	123,953	50,869	460,313
Average weight carried <sup>1</sup> .....	ton 0.3	0.7	2.0	3.4	5.9	10.5	13.6	4.7
<b>Net ton miles:</b>								
Total net ton miles performed .....	'000 222,885	524,286	433,681	1,108,795	2,320,471	4,622,112	6,413,053	15,645,283
Average net ton miles per truck .....	600	1,800	7,300	14,900	42,900	170,900	530,900	16,100
<b>Capacity ton miles:</b>								
Total capacity ton miles <sup>2</sup> .....	'000 1,683,587	2,366,214	1,201,814	2,840,599	5,334,689	9,461,200	11,897,551	34,785,654
Average capacity ton miles per truck .....	4,900	8,200	20,100	38,100	98,500	349,700	985,000	40,300
Percentage of capacity utilized .....	13.2	22.2	36.1	39.0	43.5	48.9	53.9	45.0
<b>Gross ton miles:</b>								
Total gross ton miles <sup>3</sup> .....	'000 3,525,932	4,235,336	1,616,773	3,218,291	5,505,446	9,499,522	12,316,759	39,918,059
Average gross ton miles per truck .....	10,200	14,700	27,100	43,200	101,700	351,100	1,019,700	46,300
Average annual population .....	246,434	288,774	59,760	74,524	54,151	27,053	12,079	862,775

TABLE 2. All Trucks by Gross Vehicle Weight Group  
B. 1957 (Revised)

	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	15-25 tons	Over 25 tons	Total
<b>Mileage:</b>								
Total mileage travelled .....	'000 1,921,477	1,591,135	325,523	480,189	618,557	604,980	371,353	5,913,214
Average yearly mileage per truck .....	5,800	5,700	5,700	6,500	11,900	23,000	46,400	7,100
Average distance each ton was carried .....	17.1	12.0	13.5	14.4	13.8	33.8	126.3	26.6
Percentage of total mileage travelled empty .....	66.6	51.7	38.5	38.0	41.2	33.5	24.5	49.9
<b>Fuel:</b>								
Total gallons of gasoline consumed .....	'000 125,977	121,989	33,140	58,125	86,252	92,627	46,437	564,547
Miles per gallon of gasoline .....	15.3	13.0	9.8	8.2	7.0	5.6	5.2	10.1
Total gallons of diesel oil consumed .....	'000 —	—	85	132	1,159	13,775	21,799	38,950
Miles per gallon of diesel oil .....	—	—	9.2	9.0	6.3	6.2	5.9	6.0
Total gallons of other fuel consumed .....	'000 18	81	6	120	638	54	486	1,403
Miles per gallon of other fuel .....	15.8	11.1	6.9	10.2	6.3	4.5	4.3	6.3
<b>Weight of goods carried:</b>								
Total tons of goods carried .....	'000 11,594	39,767	30,999	69,399	148,659	120,997	29,855	451,270
Average weight carried <sup>1</sup> .....	ton 0.3	0.6	2.0	3.4	5.6	10.2	13.4	4.1
<b>Net ton miles:</b>								
Total net ton miles performed .....	'000 197,938	478,296	419,646	998,975	2,053,558	4,088,086	3,770,631	12,007,130
Average net ton miles per truck .....	600	1,700	7,300	13,600	39,600	155,300	471,300	14,400
<b>Capacity ton miles:</b>								
Total capacity ton miles <sup>2</sup> .....	'000 1,570,913	2,183,461	1,129,010	2,628,102	4,934,333	8,549,732	7,604,598	28,600,149
Average capacity ton miles per truck .....	4,700	7,800	19,800	35,800	95,200	324,700	950,600	34,400
Percentage of capacity utilized .....	12.6	21.9	37.2	38.0	41.6	47.8	49.6	42.0
<b>Gross ton miles:</b>								
Total gross ton miles <sup>3</sup> .....	'000 3,233,971	3,838,116	1,519,684	2,926,667	4,974,203	8,317,527	7,361,346	32,171,514
Average gross ton miles per truck .....	9,700	13,600	26,600	39,900	95,900	315,900	920,200	38,700
Average annual population .....	333,780	281,557	57,133	73,400	51,853	26,332	8,000	832,055

See footnotes page 18.

TABLE 3. All Trucks by Province

	Newfoundland	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario
<b>Mileage:</b>						
Total mileage travelled ..... '000	56,280	30,882	219,712	169,843	1,433,788	2,447,421
Average yearly mileage per truck .....	5,100	5,800	7,300	7,600	9,300	8,700
Average distance each ton was carried .....	10.4	17.0	15.5	18.3	31.8	38.8
Percentage of total mileage travelled empty .....	67.7	66.2	61.4	54.2	43.0	46.1
<b>Fuel:</b>						
Total gallons of gasoline consumed ..... '000	4,687	2,334	20,736	16,949	143,403	250,129
Miles per gallon of gasoline .....	12.0	13.2	10.6	9.9	9.5	9.3
Total gallons of diesel oil consumed ..... '000	—	—	31	145	11,642	19,223
Miles per gallon of diesel oil .....	—	—	5.4	9.4	6.1	6.6
Total gallons of other fuel consumed .....	—	—	—	—	—	—
Miles per gallon of other fuel .....	—	—	—	—	—	—
<b>Weight of goods carried:</b>						
Total tons of goods carried ..... '000	2,998	1,119	15,338	13,519	117,313	173,162
Average weight carried <sup>1</sup> ..... ton	1.7	1.8	2.8	3.2	4.6	5.1
<b>Net ton miles:</b>						
Total net ton miles performed ..... '000	31,038	19,016	236,986	247,637	3,734,073	6,726,927
Average net ton miles per truck .....	2,800	3,500	7,900	11,100	24,300	24,000
<b>Capacity ton miles:</b>						
Total capacity ton miles <sup>2</sup> ..... '000	107,857	58,449	635,783	652,663	7,733,774	14,871,896
Average capacity ton miles per truck .....	9,700	10,900	21,100	29,300	50,400	53,100
Percentage of capacity utilized .....	28.8	32.5	37.3	37.9	48.3	45.2
<b>Gross ton miles:</b>						
Total gross ton miles <sup>3</sup> ..... '000	157,361	81,920	827,141	778,127	9,048,508	16,342,713
Average gross ton miles per truck .....	14,200	15,300	27,400	35,000	59,000	58,300
Average annual population .....	11,106	5,369	30,151	22,264	153,465	280,302
	Manitoba	Saskatchewan	Alberta	British Columbia	Canada	
<b>Mileage:</b>						
Total mileage travelled ..... '000	334,411	463,191	797,138	663,346	6,616,012	
Average yearly mileage per truck .....	6,100	4,600	7,000	7,400	7,700	
Average distance each ton was carried .....	40.3	30.0	38.5	27.6	34.0	
Percentage of total mileage travelled empty .....	50.9	58.7	54.4	62.3	50.1	
<b>Fuel:</b>						
Total gallons of gasoline consumed ..... '000	33,100	46,020	73,151	59,024	649,533	
Miles per gallon of gasoline .....	9.6	9.8	10.0	10.8	9.7	
Total gallons of diesel oil consumed ..... '000	2,766	1,589	9,846	4,853	50,095	
Miles per gallon of diesel oil .....	6.2	6.5	6.5	5.3	6.3	
Total gallons of other fuel consumed ..... '000	—	—	471	172	643	
Miles per gallon of other fuel .....	—	—	7.3	6.1	7.0	
<b>Weight of goods carried:</b>						
Total tons of goods carried ..... '000	19,030	28,075	51,671	38,088	460,313	
Average weight carried <sup>1</sup> ..... ton	4.7	4.4	5.5	4.2	4.7	
<b>Net ton miles:</b>						
Total net ton miles performed ..... '000	767,026	841,437	1,989,139	1,052,004	15,645,283	
Average net ton miles per truck .....	14,000	8,300	17,400	11,700	18,100	
<b>Capacity ton miles:</b>						
Total capacity ton miles <sup>2</sup> ..... '000	1,701,085	2,208,459	4,235,423	2,580,265	34,785,654	
Average capacity ton miles per truck .....	31,100	21,900	37,000	28,700	40,300	
Percentage of capacity utilized .....	45.1	38.1	47.0	40.8	45.0	
<b>Gross ton miles:</b>						
Total gross ton miles <sup>3</sup> ..... '000	2,022,675	2,515,710	4,961,547	3,182,357	39,918,059	
Average gross ton miles per truck .....	37,000	24,900	43,300	35,400	46,300	
Average annual population .....	54,728	100,970	114,544	89,878	862,775	

See footnotes page 18.



TABLE 4. For Hire Trucks by Province

	Newfoundland	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario
<b>Mileage:</b>						
Total mileage travelled ..... '000	7,388	1,947	15,925	9,417	292,167	520,787
Average yearly mileage per truck .....	8,200	13,700	16,200	19,100	21,700	31,100
Average distance each ton was carried .....	7.1	68.2	59.4	98.2	70.7	64.1
Percentage of total mileage travelled empty ....	44.7	19.3	26.8	25.0	24.5	26.9
<b>Fuel:</b>						
Total gallons of gasoline consumed ..... '000	814	206	2,114	1,277	33,415	71,208
Miles per gallon of gasoline .....	9.1	9.5	7.5	6.3	6.9	5.9
Total gallons of diesel oil consumed ..... '000	—	—	—	145	10,035	15,287
Miles per gallon of diesel oil .....	—	—	—	9.4	6.2	6.5
Total gallons of other fuel consumed .....	—	—	—	—	—	—
Miles per gallon of other fuel .....	—	—	—	—	—	—
<b>Weight of goods carried:</b>						
Total tons of goods carried ..... '000	1,828	67	1,106	581	28,398	64,212
Average weight carried <sup>1</sup> ..... ton	3.2	2.9	5.6	8.1	9.1	10.8
<b>Net ton miles:</b>						
Total net ton miles performed ..... '000	12,944	4,595	65,741	57,119	2,006,747	4,113,548
Average net ton miles per truck .....	14,300	32,400	66,700	116,100	149,100	245,400
<b>Capacity ton miles:</b>						
Total capacity ton miles <sup>2</sup> ..... '000	32,126	10,914	133,701	110,604	3,445,718	7,992,114
Average capacity ton miles per truck .....	35,500	76,900	135,700	224,800	256,000	476,800
Percentage of capacity utilized .....	40.3	42.1	49.2	51.6	58.2	51.5
<b>Gross ton miles:</b>						
Total gross ton miles <sup>3</sup> ..... '000	38,291	11,859	146,856	120,939	3,939,690	8,094,806
Average gross ton miles per truck .....	42,400	83,500	149,100	245,800	292,700	482,900
<b>Revenue:</b>						
Total revenue ..... \$'000	2,262	510	6,734	4,655	157,791	268,155
Revenue per ton mile ..... ¢	17.5	11.1	10.2	8.1	7.9	6.5
Revenue per mile (total mileage travelled) ..... ¢	30.6	26.2	42.3	49.4	54.0	51.5
Average revenue per truck ..... \$	2,500	3,600	6,800	9,500	11,700	16,000
Average annual population .....	904	142	985	492	13,461	16,763
	Manitoba	Saskatchewan	Alberta	British Columbia	Canada	
<b>Mileage:</b>						
Total mileage travelled ..... '000	63,645	68,969	231,430	87,599	1,299,274	
Average yearly mileage per truck .....	47,900	40,900	24,500	16,500	25,700	
Average distance each ton was carried .....	268.3	178.5	57.6	43.2	66.4	
Percentage of total mileage travelled empty ....	17.7	30.4	33.3	29.7	27.5	
<b>Fuel:</b>						
Total gallons of gasoline consumed ..... '000	7,763	9,822	26,234	11,209	164,062	
Miles per gallon of gasoline .....	6.1	6.1	6.4	6.2	6.3	
Total gallons of diesel oil consumed ..... '000	2,673	1,407	9,503	3,318	42,368	
Miles per gallon of diesel oil .....	6.1	6.5	6.5	5.3	6.3	
Total gallons of other fuel consumed ..... '000	—	—	163	—	163	
Miles per gallon of other fuel .....	—	—	6.8	—	6.8	
<b>Weight of goods carried:</b>						
Total tons of goods carried ..... '000	1,912	2,460	27,294	12,547	140,405	
Average weight carried <sup>1</sup> ..... ton	9.8	9.2	10.2	8.8	9.9	
<b>Net ton miles:</b>						
Total net ton miles performed ..... '000	512,985	439,126	1,572,082	541,869	9,326,756	
Average net ton miles per truck .....	386,000	260,600	166,500	102,200	187,700	
<b>Capacity ton miles:</b>						
Total capacity ton miles <sup>2</sup> ..... '000	919,737	940,752	2,889,058	1,118,113	17,592,837	
Average capacity ton miles per truck .....	692,100	558,300	306,000	210,900	348,400	
Percentage of capacity utilized .....	55.8	46.7	54.4	48.5	53.0	
<b>Gross ton miles:</b>						
Total gross ton miles <sup>3</sup> ..... '000	1,028,574	950,491	3,192,951	1,235,692	18,760,149	
Average gross ton miles per truck .....	773,900	564,100	338,200	233,100	371,500	
<b>Revenue:</b>						
Total revenue ..... \$'000	28,572	26,740	87,838	47,742	630,999	
Revenue per ton mile ..... ¢	5.6	6.1	5.6	8.8	6.8	
Revenue per mile (total mileage travelled) ..... ¢	44.9	38.8	38.0	54.5	48.6	
Average revenue per truck ..... \$	21,500	15,900	9,300	9,000	12,500	
Average annual population .....	1,329	1,685	9,441	5,301	50,503	

See footnotes page 18.

TABLE 5. Selected Statistics of For Hire Trucks by Gross Vehicle Weight Group

Gross vehicle weight	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile	Average annual population
	'000 tons	'000	'000	tons	miles	\$'000	¢	
20,000 lb. and under .....	18,483	137,545	341,239	2.5	18.5	67,709	19.8	17,943
20,001 - 30,000 lb. ....	52,497	156,005	1,003,162	6.4	19.1	89,689	8.9	14,017
30,001 - 50,000 lb. ....	37,334	269,158	2,909,976	10.8	77.9	195,801	6.7	10,177
50,001 lb. and over .....	32,091	378,825	5,072,379	13.4	158.1	277,800	5.5	8,366
<b>Total .....</b>	<b>140,405</b>	<b>941,533</b>	<b>9,326,756</b>	<b>9.9</b>	<b>66.4</b>	<b>630,999</b>	<b>6.8</b>	<b>50,503</b>

TABLE 6. Private Intercity Trucks by Province

	Newfoundland	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Canada
<b>Mileage:</b>											
Total mileage travelled ..... '000	34,089	12,865	130,075	106,222	465,507	840,255	39,451	128,342	174,210	274,399	2,205,415
Average yearly mileage per truck .....	6,000	6,500	8,000	8,700	14,200	11,500	15,500	11,500	10,900	8,100	10,700
Average distance each ton was carried .....	20.4	14.7	13.9	15.3	30.1	40.0	47.8	22.3	42.6	30.8	31.3
Percentage of total mileage travelled empty .....	74.7	73.0	66.4	58.8	47.0	52.3	33.2	55.3	52.5	67.6	54.5
<b>Fuel:</b>											
Total gallons of gasoline consumed ..... '000	2,618	871	12,233	10,783	48,811	86,145	4,199	13,241	15,153	23,579	217,633
Miles per gallon of gasoline ..	13.0	14.8	10.6	9.9	9.4	9.4	9.3	9.6	11.2	11.3	9.9
Total gallons of diesel oil consumed ..... '000	—	—	31	—	1,048	3,936	60	162	343	1,535	7,135
Miles per gallon of diesel oil..	—	—	5.4	—	6.2	6.8	6.9	6.6	6.6	5.2	6.4
Total gallons of other fuel consumed ..... '000	—	—	—	—	—	—	—	—	308	172	480
Miles per gallon of other fuel..	—	—	—	—	—	—	—	—	7.6	6.1	7.1
<b>Weight of goods carried:</b>											
Total tons of goods carried .... '000	560	606	9,714	10,365	39,152	48,037	1,506	10,801	4,565	12,601	137,907
Average weight carried' ..... ton	1.3	2.6	3.1	3.6	4.8	4.8	2.7	4.2	2.4	4.4	4.3
<b>Net ton miles:</b>											
Total net ton miles performed. '000	11,424	8,900	134,759	158,894	1,179,374	1,921,561	71,922	240,434	194,638	387,989	4,309,895
Average net ton miles per truck .....	2,000	4,500	8,300	13,100	35,900	26,300	28,200	21,600	12,100	11,500	21,000
<b>Capacity ton miles:</b>											
Total capacity ton miles' ..... '000	49,581	25,595	375,024	420,971	2,621,470	4,656,779	182,232	611,711	550,201	948,131	10,441,695
Average capacity ton miles per truck .....	8,700	12,900	23,100	34,600	79,900	63,600	71,400	55,000	34,300	28,100	50,800
Percentage of capacity utilized .....	23.0	34.8	35.9	37.7	45.0	41.3	39.5	39.3	35.4	40.9	41.3
<b>Gross ton miles:</b>											
Total gross ton miles' ..... '000	80,351	36,055	484,876	489,484	2,870,989	5,060,558	213,568	679,666	676,815	1,155,635	11,747,997
Average gross ton miles per truck .....	14,100	18,200	29,800	40,200	87,500	69,100	83,700	81,100	42,200	34,200	57,100
Average annual population .....	5,700	1,977	16,250	12,166	32,818	73,192	2,553	11,125	16,050	33,792	205,623

See footnotes page 18.

TABLE 7. Selected Statistics of Private Intercity Trucks by Gross Vehicle Weight Group

Gross vehicle weight	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Average annual population
	'000 tons	'000	'000	tons	miles	
10,000 lb. and under .....	9,176	447,894	259,221	0.6	28.2	148,517
10,001 - 20,000 lb. ....	30,979	191,693	594,649	3.1	19.2	27,509
20,001 - 30,000 lb. ....	41,562	150,091	858,623	5.7	20.7	16,984
30,001 - 50,000 lb. ....	37,412	119,192	1,256,728	10.5	33.6	8,900
50,001 lb. and over .....	18,778	93,503	1,340,674	14.3	71.4	3,713
<b>Total .....</b>	<b>137,907</b>	<b>1,002,373</b>	<b>4,309,895</b>	<b>4.3</b>	<b>31.3</b>	<b>205,623</b>

TABLE 8. Private Urban Trucks by Province

	Newfoundland	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Canada
<b>Mileage:</b>											
Total mileage travelled ..... '000	11,543	4,002	47,086	32,326	539,731	855,285	151,424	48,316	157,184	244,092	2,090,989
Average yearly mileage per truck .....	3,100	6,200	6,100	6,700	7,500	6,700	7,200	5,300	6,500	6,300	6,800
Average distance each ton was carried .....	10.9	9.7	7.3	11.1	10.6	10.9	11.1	7.2	8.6	8.7	10.3
Percentage of total mileage travelled empty .....	60.9	36.2	53.6	39.4	42.1	46.2	57.0	52.8	65.2	65.1	49.9
<b>Fuel:</b>											
Total gallons of gasoline consumed ..... '000	1,015	343	4,147	3,037	51,034	76,501	14,256	4,282	12,866	19,892	187,373
Miles per gallon of gasoline .....	11.4	11.7	11.4	10.6	10.5	11.2	10.6	11.3	12.2	12.3	11.1
Total gallons of diesel oil consumed ..... '000	—	—	—	—	559	—	33	—	—	—	592
Miles per gallon of diesel oil .....	—	—	—	—	5.2	—	5.5	—	—	—	5.2
Total gallons of other fuel consumed .....	—	—	—	—	—	—	—	—	—	—	—
Miles per gallon of other fuel .....	—	—	—	—	—	—	—	—	—	—	—
<b>Weight of goods carried:</b>											
Total tons of goods carried ..... '000	556	198	3,643	1,966	47,661	56,373	13,026	4,459	12,813	11,890	152,585
Average weight carried <sup>1</sup> ..... ton	1.3	0.8	1.2	1.1	1.6	1.3	2.2	1.4	2.0	1.2	1.5
<b>Net ton miles:</b>											
Total net ton miles performed .... '000	6,078	1,933	26,567	21,855	507,302	612,765	144,129	31,943	109,622	103,141	1,565,335
Average net ton miles per truck ..	1,600	3,000	3,400	4,500	7,100	4,800	6,800	3,500	4,600	2,600	5,100
<b>Capacity ton miles:</b>											
Total capacity ton miles <sup>2</sup> ..... '000	22,517	6,749	86,735	76,147	1,485,990	1,904,992	440,631	106,784	348,110	434,395	4,913,050
Average capacity ton miles per truck .....	5,900	10,500	11,200	15,800	20,700	14,900	20,900	11,700	14,500	11,100	15,900
Percentage of capacity utilized ..	27.0	28.6	30.6	28.7	34.1	32.2	32.7	29.9	31.5	23.7	31.9
<b>Gross ton miles:</b>											
Total gross ton miles <sup>3</sup> ..... '000	32,069	9,964	131,391	104,506	1,939,875	2,652,780	556,520	156,739	471,086	666,107	6,721,037
Average gross ton miles per truck ..	8,500	15,500	18,900	21,700	27,100	20,800	26,400	17,200	19,600	17,100	21,700
Average annual population .....	3,785	641	7,762	4,816	71,685	127,701	21,063	9,095	24,037	39,043	309,628

See footnotes page 18.



TABLE 9. Farm Trucks by Province

	New-found-land	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Canada
<b>Mileage:</b>											
Total mileage travelled ..... '000	3,260	12,068	26,626	21,878	136,383	231,094	79,891	217,564	234,314	57,256	1,020,334
Average yearly mileage per truck .....	4,500	4,600	5,200	4,600	3,800	3,700	2,700	2,800	3,600	4,900	3,400
Average distance each ton was carried .....	11.0	14.5	11.3	16.1	19.3	17.4	14.7	12.5	16.1	18.1	15.1
Percentage of total mileage travelled empty .....	70.2	76.4	71.5	66.3	72.0	66.5	74.4	70.4	69.4	74.3	70.0
<b>Fuel:</b>											
Total gallons of gasoline consumed.... '000	240	914	2,242	1,852	10,143	16,275	6,882	18,675	18,898	4,344	80,465
Miles per gallon of gasoline .....	13.6	13.2	11.9	11.8	13.4	14.2	11.6	11.7	12.4	13.2	12.7
Total gallons of diesel oil consumed .....	—	—	—	—	—	—	—	—	—	—	—
Miles per gallon of diesel oil .....	—	—	—	—	—	—	—	—	—	—	—
Total gallons of other fuel consumed .....	—	—	—	—	—	—	—	—	—	—	—
Miles per gallon of other fuel .....	—	—	—	—	—	—	—	—	—	—	—
<b>Weight of goods carried:</b>											
Total tons of goods carried ..... '000	54	248	875	607	2,102	4,540	2,586	10,355	6,999	1,050	29,416
Average weight carried <sup>1</sup> ..... ton	0.6	1.3	1.3	1.3	1.1	1.0	1.9	2.0	1.6	1.3	1.5
<b>Net ton miles:</b>											
Total net ton miles performed ..... '000	592	3,588	9,919	9,769	40,650	79,053	37,990	129,934	112,797	19,005	443,297
Average net ton miles per truck .....	800	1,400	1,900	2,000	1,100	1,300	1,300	1,600	1,700	1,600	1,500
<b>Capacity ton miles:</b>											
Total capacity ton miles <sup>2</sup> ..... '000	3,633	15,191	40,323	44,941	180,596	318,011	158,485	549,212	448,054	79,626	1,838,072
Average capacity ton miles per truck .....	5,100	5,800	7,800	9,400	5,100	5,100	5,300	6,900	6,900	6,800	6,200
Percentage of capacity utilized .....	16.3	23.6	24.6	21.7	22.5	24.9	24.0	23.7	25.2	23.9	24.1
<b>Gross ton miles:</b>											
Total gross ton miles <sup>3</sup> ..... '000	6,650	24,042	64,018	63,198	297,954	534,569	224,013	728,814	620,695	124,923	2,688,876
Average gross ton miles per truck .....	9,300	9,200	12,400	13,200	8,400	8,500	7,500	9,200	9,500	10,600	9,100
Average annual population .....	717	2,609	5,154	4,790	35,501	62,646	29,783	79,065	65,016	11,740	297,021

<sup>1</sup> Ton miles divided by miles travelled with load.<sup>2</sup> Capacity ton miles are determined by multiplying the actual number of miles travelled by the estimated capacity or the weight of the heaviest load carried, whichever is larger.<sup>3</sup> Gross ton miles performed are determined by adding to the total ton miles performed the weight of the vehicle empty (tare) multiplied by total miles travelled.

## SECTION II- INTRAPROVINCIAL TRAFFIC BY FOR HIRE AND PRIVATE INTERCITY TRUCKS IN CANADA, 1958.

TABLE 10. Selected Statistics of Intercity Traffic by Gross Vehicle Weight Group

Gross vehicle weight	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
20,000 lb. and under .....	8,909	73,640	220,964	3.0	24.8	31,704	14.3
20,001-30,000 lb. ....	36,792	114,358	709,168	6.2	19.3	61,552	8.7
30,001-50,000 lb. ....	20,478	124,922	1,294,554	10.4	63.2	94,500	7.3
50,001 lb. and over .....	23,030	179,394	2,297,245	12.8	99.8	150,299	6.5
<b>Total .....</b>	<b>89,209</b>	<b>492,314</b>	<b>4,521,931</b>	<b>9.2</b>	<b>50.7</b>	<b>338,055</b>	<b>7.5</b>
	Private intercity						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
10,000 lb. and under .....	7,650	378,341	224,809	0.6	29.4		
10,001-20,000 lb. ....	27,418	166,419	529,937	3.2	19.3		
20,001-30,000 lb. ....	36,089	130,310	752,930	5.8	20.9		
30,001-50,000 lb. ....	31,671	89,653	935,316	10.4	29.6		
50,001 lb. and over .....	15,293	60,887	680,328	14.5	57.6		
<b>Total .....</b>	<b>118,121</b>	<b>825,610</b>	<b>3,323,320</b>	<b>4.0</b>	<b>28.1</b>		

TABLE 11. Selected Statistics of Intercity Traffic by Commodity Group

Commodity group	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
Agricultural products .....	2,731	18,258	188,919	10.3	69.2	12,107	6.4
Animals and animal products.....	4,824	62,861	322,547	5.1	66.9	29,505	9.1
Mine products.....	42,010	57,118	571,238	10.0	13.6	37,928	6.6
Forest products.....	3,542	16,559	179,560	10.8	50.7	12,849	7.2
Manufactures and miscellaneous.....	23,214	208,293	2,209,111	10.6	95.2	148,770	6.7
N.O.S. general freight.....	12,688	129,225	1,050,556	8.1	81.5	96,896	9.2
<b>Total .....</b>	<b>89,209</b>	<b>482,314</b>	<b>4,521,931</b>	<b>8.2</b>	<b>50.7</b>	<b>338,055</b>	<b>7.5</b>
	Private intercity						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
Agricultural products .....	4,793	41,721	218,563	5.2	45.6		
Animals and animal products.....	4,074	90,379	237,717	2.6	58.3		
Mine products.....	53,496	65,739	550,636	8.4	10.3		
Forest products.....	13,781	57,133	438,721	7.7	31.8		
Manufactures and miscellaneous.....	35,434	492,813	1,687,774	3.4	47.6		
N.O.S. general freight.....	6,541	77,825	189,889	2.4	29.0		
<b>Total .....</b>	<b>118,121</b>	<b>825,610</b>	<b>3,323,320</b>	<b>4.0</b>	<b>28.1</b>		

## SECTION III. INTERPROVINCIAL AND INTERNATIONAL TRAFFIC BY CANADIAN REGISTERED TRUCKS, 1958

TABLE 12. Goods Carried by Province of Origin and Destination

To:	For hire									
	Atlantic provinces	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Yukon and Northwest Territories	United States	Total
From:	'000 tons									
Atlantic provinces.....	—	19	3	—	—	—	—	—	9	31
Quebec .....	26	—	1,094	2	—	37	2	—	131	1,292
Ontario .....	4	1,022	—	101	7	90	1	—	149	1,374
Manitoba.....	—	2	92	—	118	25	3	—	12	252
Saskatchewan.....	—	—	7	97	—	43	—	—	7	154
Alberta .....	—	33	89	35	29	—	119	2	11	318
British Columbia.....	—	—	3	3	1	111	—	2	101	221
Yukon and Northwest Territories .....	—	—	—	—	—	12	—	—	—	12
United States .....	5	148	213	21	3	5	77	—	—	472
<b>Total .....</b>	<b>35</b>	<b>1,224</b>	<b>1,501</b>	<b>259</b>	<b>158</b>	<b>323</b>	<b>202</b>	<b>4</b>	<b>420</b>	<b>4,126</b>
From:	Private intercity									
	'000 tons									
Atlantic provinces.....	—	7	1	—	—	—	—	—	29	37
Quebec .....	4	—	405	—	1	—	—	—	272	682
Ontario .....	1	340	—	6	1	4	8	—	229	589
Manitoba.....	—	—	16	—	24	1	—	—	5	46
Saskatchewan.....	—	—	—	7	—	15	—	—	—	22
Alberta .....	—	—	3	1	18	—	23	—	—	43
British Columbia.....	—	—	1	—	—	33	—	27	1	62
Yukon and Northwest Territories .....	—	—	—	—	—	—	12	—	—	12
United States .....	7	4	201	—	2	3	31	—	—	248
<b>Total .....</b>	<b>12</b>	<b>351</b>	<b>627</b>	<b>14</b>	<b>44</b>	<b>56</b>	<b>74</b>	<b>27</b>	<b>536</b>	<b>1,741</b>

TABLE 13. Selected Statistics by Gross Vehicle Weight Group

Gross vehicle weight	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
30,000 lb. and under .....	192	8,770	70,971	8.1	369.6	6,307	8.9
30,001-50,000 lb. ....	1,725	55,631	642,386	11.5	372.4	36,552	6.0
50,001 lb. and over .....	2,209	93,658	1,297,171	13.9	587.2	59,269	4.6
<b>Total</b> .....	<b>4,126</b>	<b>158,059</b>	<b>2,010,528</b>	<b>12.7</b>	<b>487.3</b>	<b>104,128</b>	<b>5.2</b>
	Private intercity						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
20,000 lb. and under .....	155	10,125	15,166	1.5			97.8
20,001-30,000 lb. ....	161	3,751	21,252	5.7			132.0
30,001-50,000 lb. ....	772	12,700	139,948	11.0			181.3
50,001 lb. and over .....	653	14,989	208,343	13.9			319.1
<b>Total</b> .....	<b>1,741</b>	<b>41,565</b>	<b>384,709</b>	<b>9.3</b>			<b>221.0</b>

TABLE 14. Selected Statistics by Commodity Group

Commodity group	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
Agricultural products .....	223	7,621	103,399	13.6	463.7	4,515	4.4
Animals and animal products .....	291	22,554	282,719	12.5	971.5	10,448	3.7
Mine products .....	61	644	9,558	14.8	156.7	732	7.7
Forest products .....	160	1,681	26,855	14.3	167.8	1,906	7.1
Manufactures and miscellaneous .....	1,984	73,041	899,244	12.3	453.2	49,463	5.5
N.O.S. general freight .....	1,407	52,318	688,753	13.2	489.5	37,064	5.4
<b>Total</b> .....	<b>4,126</b>	<b>158,059</b>	<b>2,010,528</b>	<b>12.7</b>	<b>487.3</b>	<b>104,128</b>	<b>5.2</b>
	Private intercity						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
Agricultural products .....	140	4,864	55,755	11.5			398.3
Animals and animal products .....	69	3,512	27,988	8.0			314.6
Mine products .....	54	669	10,049	15.0			186.1
Forest products .....	397	3,931	49,855	12.7			125.6
Manufactures and miscellaneous .....	897	22,071	186,707	8.5			208.1
N.O.S. general freight .....	164	6,518	54,355	8.3			331.4
<b>Total</b> .....	<b>1,741</b>	<b>41,565</b>	<b>384,709</b>	<b>9.3</b>			<b>221.0</b>



## Appendix I

## Average Truck Population in Canada by Province, Type of Operation and Gross Vehicle Weight Group, 1958

Type of operation and gross vehicle weight	New-found-land	Prince Edward Island	Nova Scotia	New Brunswick	Atlantic provinces	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Canada
<b>For hire:</b>												
0 - 2½ tons .....					97	252	128	—	—	144	74	695
2½ - 5 " .....					492	2,018	678	97	105	459	618	4,467
5 - 7½ " .....					643	2,640	797	49	40	210	404	4,783
7½ - 10 " .....	1	1	1	1	473	2,200	2,645	211	130	1,638	701	7,998
10 - 15 " .....					475	2,271	4,364	157	308	4,803	1,639	14,017
15 - 25 " .....					244	4,080	2,215	408	860	1,317	1,053	10,177
Over 25 " .....					99	—	5,936	407	242	870	812	8,366
<b>Total .....</b>	<b>904</b>	<b>142</b>	<b>985</b>	<b>492</b>	<b>2,523</b>	<b>13,461</b>	<b>16,763</b>	<b>1,329</b>	<b>1,685</b>	<b>9,441</b>	<b>5,301</b>	<b>50,503</b>
<b>Private — Intercity:</b>												
0 - 2½ tons .....					5,830	7,323	40,675	—	5,349	9,054	16,058	84,289
2½ - 5 " .....					21,817	11,702	11,527	1,596	2,048	3,471	12,067	64,228
5 - 7½ " .....					1,680	2,471	3,531	227	495	661	1,578	10,643
7½ - 10 " .....	1	1	1	1	4,271	2,278	6,953	322	922	1,246	874	16,866
10 - 15 " .....					2,245	4,287	5,775	247	1,677	1,176	1,577	16,984
15 - 25 " .....					209	4,757	1,705	115	564	310	1,240	8,900
Over 25 " .....					41	—	3,026	46	70	132	398	3,713
<b>Total .....</b>	<b>3,700</b>	<b>1,977</b>	<b>16,250</b>	<b>12,166</b>	<b>36,093</b>	<b>32,818</b>	<b>73,192</b>	<b>2,553</b>	<b>11,125</b>	<b>16,050</b>	<b>33,792</b>	<b>205,623</b>
<b>Urban:</b>												
0 - 2½ tons .....					3,458	17,911	74,537	4,809	5,346	16,057	17,720	139,838
2½ - 5 " .....					9,951	34,334	28,697	10,744	1,776	3,360	15,038	103,900
5 - 7½ " .....					1,600	6,950	8,137	1,685	485	683	2,486	22,026
7½ - 10 " .....	1	1	1	1	1,362	4,624	9,137	2,370	703	2,378	1,516	22,090
10 - 15 " .....					575	4,376	4,764	986	603	1,053	1,523	13,900
15 - 25 " .....					58	3,490	2,409	469	182	506	760	7,874
Over 25 " .....					—	—	—	—	—	—	—	—
<b>Total .....</b>	<b>3,765</b>	<b>641</b>	<b>7,762</b>	<b>4,816</b>	<b>17,004</b>	<b>71,685</b>	<b>127,701</b>	<b>21,063</b>	<b>9,095</b>	<b>24,037</b>	<b>39,043</b>	<b>309,628</b>
<b>Rural:</b>												
0 - 2½ tons .....					2,530	17,678	46,138	2,936	14,070	31,896	6,364	121,612
2½ - 5 " .....					9,222	15,705	13,107	20,056	36,585	17,064	4,440	116,179
5 - 7½ " .....	1	1	1	1	708	1,647	1,559	4,070	10,665	2,964	695	22,308
7½ - 10 " .....					618	368	1,273	2,418	11,520	11,238	135	27,570
10 - 15 " .....					188	103	569	281	6,175	1,839	95	9,250
15 - 25 " .....					4	—	—	22	50	15	11	102
Over 25 " .....					—	—	—	—	—	—	—	—
<b>Total .....</b>	<b>717</b>	<b>2,609</b>	<b>5,154</b>	<b>4,790</b>	<b>13,270</b>	<b>35,501</b>	<b>62,646</b>	<b>29,783</b>	<b>79,085</b>	<b>65,016</b>	<b>11,740</b>	<b>297,021</b>
<b>All trucks:</b>												
0 - 2½ tons .....					11,915	43,164	161,478	7,745	24,765	57,151	40,216	346,434
2½ - 5 " .....					41,482	63,759	54,009	32,493	40,514	24,354	32,163	288,774
5 - 7½ " .....	1	1	1	1	4,631	13,708	14,024	6,031	11,685	4,518	5,163	59,760
7½ - 10 " .....					6,724	9,470	20,008	5,321	13,275	16,500	3,226	74,524
10 - 15 " .....					3,483	11,037	15,492	1,671	8,763	8,871	4,834	54,151
15 - 25 " .....					515	12,327	6,329	1,014	1,656	2,148	3,064	27,053
Over 25 " .....					140	—	8,962	453	312	1,002	1,210	12,079
<b>Total .....</b>	<b>11,106</b>	<b>5,369</b>	<b>30,151</b>	<b>22,264</b>	<b>68,690</b>	<b>153,465</b>	<b>280,302</b>	<b>54,728</b>	<b>100,970</b>	<b>114,544</b>	<b>89,876</b>	<b>662,775</b>

Population estimates by gross vehicle weight group are not considered sufficiently reliable.

## Appendix II

## Survey Response, by Type of Operation and Province, 1958

Type of Operation	New-found-land	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Canada
Total number of trucks selected in samples											
For hire.....	384	69	341	208	2,468	3,630	393	541	2,447	1,140	11,631
Private:											
Intercity.....	859	507	2,903	2,250	4,396	8,000	427	1,706	1,589	3,438	26,979
Urban.....	468	183	1,314	885	8,364	11,931	2,851	1,080	2,157	3,854	33,037
Farm.....	147	572	666	704	2,601	4,378	2,452	9,466	6,192	976	28,154
Total.....	1,858	1,331	5,224	4,047	17,829	27,939	6,123	12,793	12,385	9,408	98,837
Number of questionnaires returned completed											
For hire.....	136	23	155	89	1,332	1,928	256	294	977	608	5,705
Private:											
Intercity.....	337	205	1,420	930	2,044	4,008	264	728	763	1,620	12,319
Urban.....	190	70	644	364	3,945	5,985	1,331	483	1,047	1,834	15,833
Farm.....	59	233	339	295	939	2,275	829	2,924	2,566	482	10,241
Total.....	722	531	2,558	1,678	8,260	14,196	2,680	4,429	5,353	4,544	44,951
Number of sampled trucks reported not in use during survey week											
For hire.....	127	22	101	57	463	586	73	124	681	298	2,332
Private:											
Intercity.....	233	103	760	665	980	2,053	91	534	440	831	6,920
Urban.....	107	39	334	251	1,668	2,842	737	310	582	933	7,800
Farm.....	40	106	154	194	603	992	1,037	4,431	2,378	212	10,457
Total.....	507	270	1,349	1,167	3,714	6,473	1,838	5,399	4,081	2,274	27,172
Number of questionnaires not returned or returned incomplete or unusable											
For hire.....	121	24	85	62	673	1,116	64	123	789	234	3,291
Private:											
Intercity.....	289	199	723	655	1,372	1,939	72	444	386	987	7,066
Urban.....	171	74	336	270	2,751	3,104	783	287	528	1,087	9,391
Farm.....	48	233	173	215	1,059	1,111	586	2,111	1,248	282	7,066
Total.....	629	530	1,317	1,202	5,855	7,270	1,505	2,965	2,951	2,590	28,814

## Appendix III

## Reliability of Motor Transport Traffic Statistics, 1958

	Number of trucks reporting	Survey estimates	Sampling variability (Two standard deviations)		Range (Col. 2 plus and minus col. 3)	
			Size	Per cent of col. 2	Lower limit	Upper limit
	(1)	(2)	(3)	(4)	(5)	(6)
		'000	'000		'000	'000
A. Traffic performed by Canadian registered trucks						
Total mileage travelled						
		miles	miles		miles	miles
For hire.....	5,691	1,299,274	25,985	2.0	1,273,289	1,325,259
Private:						
Intercity.....	12,220	2,205,415	35,287	1.6	2,170,128	2,240,702
Urban.....	15,893	2,090,989	29,274	1.4	2,061,715	2,120,263
Farm.....	10,940	1,020,334	22,447	2.2	997,887	1,042,781
Total.....	44,744	6,616,012	52,928	0.8	6,563,084	6,668,940
Weight of goods carried						
		tons	tons		tons	tons
For hire.....	5,604	140,405	6,178	4.4	134,227	146,583
Private:						
Intercity.....	8,875	137,907	6,068	4.4	131,839	143,975
Urban.....	11,450	152,585	5,493	3.6	147,092	158,078
Farm.....	7,452	29,416	1,059	3.6	28,357	30,475
Total.....	33,181	460,313	10,127	2.2	450,186	470,440

**Appendix III — Concluded**  
**Reliability of Motor Transport Traffic Statistics, 1958 — Concluded**

	Number of trucks reporting (1)	Survey estimates (2)	Sampling variability (Two standard deviations)		Range (Col. 2 plus and minus col. 3)	
			Size (3)	Per cent of col. 2 (4)	Lower limit (5)	Upper limit (6)
		'000	'000		'000	'000
<b>A. Traffic performed by Canadian registered trucks — Concluded</b>						
		Net ton miles				
		net ton miles	net ton miles		net ton miles	net ton miles
For hire .....	5,604	9,326,756	279,803	3.0	9,046,953	9,606,559
Private:						
Intercity .....	8,669	4,309,895	120,677	2.8	4,189,218	4,430,572
Urban .....	11,431	1,565,335	37,568	2.4	1,527,767	1,602,903
Farm .....	7,267	443,297	20,392	4.6	422,905	463,689
<b>Total</b> .....	<b>32,971</b>	<b>15,645,283</b>	<b>250,325</b>	<b>1.6</b>	<b>15,394,958</b>	<b>15,893,608</b>
		Revenue earned				
		\$	\$		\$	\$
For hire .....	921	630,999	15,144	2.4	615,855	646,143
<b>B. Interprovincial and international traffic</b>						
		Weight of goods carried				
		tons	tons		tons	tons
For hire .....	727	4,126	239	5.8	3,887	4,365
Private:						
Intercity .....	334	1,741	226	13.0	1,515	1,967
		Net ton miles				
		net ton miles	net ton miles		net ton miles	net ton miles
For hire .....	727	2,010,528	112,590	5.6	1,897,938	2,123,118
Private:						
Intercity .....	334	384,709	46,934	12.2	337,775	431,643

**Note:** The chances are 95 out of 100 that the range (sample estimate  $\pm$  sampling variability) contains the true value. Consider "total mileage travelled" by for hire trucks. It can be assumed that the computed figure, 1,299,274,000 miles, will not be more than 25,985,000 miles (plus or minus 2.0 per cent of 1,299,274,000) away from the "true" value in 95 out of 100 cases. In other words, the chances are 95 out of 100 that the true value will fall within a range of 1,273,289,000 to 1,325,259,000.

**Appendix IV**  
**Commodity Classification**

Agricultural products: Flour Fruit Grain Grain products Sugar beets Vegetables Other agricultural products  Animals and animal products: Animals and live poultry, n.o.s. <sup>1</sup> Butter, cheese and eggs Cattle, calves and hogs Dressed meats and packing house products Fish Hides and skins Milk, cream Wool Other animal products  Mine products: Coal and coke Crude petroleum Ore and concentrates Sand, gravel, crushed rock and fill Other mine products	Forest products: Cordwood, fuelwood Logs, poles, posts and ties Lumber, timber, lath, etc. Pulpwood Other forest products  Manufactured products: Agricultural implements, farm tractors and parts Animal, fish or vegetable oil Automobiles and parts Building products, brick, cement, etc. Empty containers, wood or metal Fertilizers, chemicals and acids Food products, groceries, canned goods Furniture, furnishings and personal effects Gasoline Hardware Iron and steel products Machines, machinery and parts Metal products, n.o.s. Newspapers and other printed material Newsprint Paper products, n.o.s. Petroleum products, n.o.s. Rubber and rubber products Scrap and waste metal Soft drinks, beer and other beverages Textiles Tools and equipment Wood products, plywood, veneer, etc. Other manufactures  General freight and miscellaneous
---	--

<sup>1</sup> n.o.s. — Not otherwise specified.



## Appendix V

## Description of Vehicle Classifications, 1958

The following summary shows how the existing licensing systems in each province were used to group vehicles into the four functional truck classes. Where no separate licence categories existed, vehicles were classified according to the type of operation as indicated below:

**For hire trucks**

## Atlantic provinces:

No separate licence —

Newfoundland—trucking operations for which revenue was received.

Nova Scotia and Prince Edward Island—trucks operated for compensation on intercity routes and/or in urban areas, except those used in carrying mail, earth, sand or gravel; or used on government construction work; for the transportation of unprocessed products of the land, sea or forest; or by a farmer, fisherman or lumberman.

New Brunswick—trucks owned by companies or individuals licensed by the Motor Carrier Board.

## Quebec:

"L" licensed vehicles—operated for compensation in intercity or urban service.

## Ontario:

Public Commercial Vehicles (P.C.V.)—operated for compensation outside urban areas (rural and intercity routes).

## Manitoba:

Public Service Vehicles (P.S.V.)—operated for compensation beyond 15 miles radius of place of registration.

## Saskatchewan:

"A" and "E" licensed vehicles—operated for compensation in transporting general merchandise over a route or by charter or for specified commodities provincially.

## Alberta:

"E" and "P.S.V." licensed vehicles—operated for compensation in transporting general merchandise or specified commodities on intercity routes.

## British Columbia:

"E", "C", "H" and "J" carrier licensed vehicles—operated for compensation in intercity service or in urban areas.

**Private intercity trucks**

## Atlantic provinces:

No separate licence—trucks operated on intercity routes by a fisherman or lumberman; or those used in transporting mail, sand or gravel, unprocessed products of the land, sea or forest; or used on government construction work; or privately owned trucks transporting owners' goods outside urban areas.

## Quebec:

No separate licence—trucks with "F" licences operated outside urban areas.

## Ontario:

No separate licence—private non-farm trucks operated outside urban areas.

## Manitoba:

"C.T." licensed vehicles—private non-farm trucks which may operate beyond 15 miles radius of place of registration.

## Saskatchewan:

No separate licence—trucks with "C" or "D" licences operated outside urban areas.

**Private intercity trucks—Concluded**

## Alberta:

"CV" licensed vehicles and that portion of "X" vehicles operated beyond 5 miles radius of place of registration.

## British Columbia:

No separate licence—private non-farm trucks operated beyond urban areas.

**Private urban trucks**

## Atlantic provinces:

No separate licence—trucks operated in urban areas for transporting mail, earth, sand or gravel, unprocessed products of sea; or used on government construction work; and privately owned trucks transporting owners' goods in urban areas.

## Quebec:

No separate licence—trucks with "F" licences operated in urban areas.

## Ontario:

No separate licence—private trucks operated in urban areas.

## Manitoba:

"T" and "DC" licensed vehicles—trucks operated within 15 miles radius of the place of registration.

## Saskatchewan:

No separate licence—trucks with "C" or "D" licences operated within urban areas.

## Alberta:

"C" licensed vehicles and that portion of "X" licences operated within 5 miles radius of place of registration.

## British Columbia:

No separate licence—trucks which do not have a carrier licence and are operated within urban areas.

**Farm trucks**

## Atlantic provinces:

Trucks owned and operated by a farmer including those with special farm licence in Nova Scotia.

## Quebec:

"N" licensed vehicles—owned and operated by a farmer.

## Ontario:

No separate licence—trucks owned and operated by a farmer.

## Manitoba:

"FT" licensed vehicles—trucks owned and operated by a farmer.

## Saskatchewan:

"F" licensed vehicles—trucks owned and operated by a farmer.

## Alberta:

"F" licensed vehicles—trucks owned and operated by a farmer.

## British Columbia:

No separate licence—trucks owned and operated by a farmer.

## Appendix VI

## DOMINION BUREAU OF STATISTICS

Transportation Section

# TRUCKING SURVEY QUESTIONNAIRE 1958

To be completed by all vehicle operators regardless of the purpose for which vehicle is used—and to be returned at end of Survey Week.

This questionnaire pertains only to the following vehicle:

SERIAL No. \_\_\_\_\_

The SURVEY WEEK, during which the owner of this vehicle is to report operating data,

begins  
SUNDAY  
morning

ends  
SATURDAY  
midnight

8594—410.1: 18-10-57

## INSTRUCTIONS FOR REPORTING OPERATIONS

## IF VEHICLE WAS USED FOR:

Answer questions  
on pages:

1. Personal transportation only (with no loads carried) 5,6,7
  2. Urban operations (those within a town, city or metropolitan area and a five mile limit thereof) 5,6,7,8 and 9
  3. Intercity operations (those beyond a five mile limit of a town, city or metropolitan area) 5,6,7 and 10
  4. Intercity and urban operations 5,6,7,8,9 and 10
  5. Rural (including farm) operations (those beyond a five mile limit of a town, city or metropolitan area) 5,6,7 and 9,10
- IF VEHICLE WAS NOT USED 5,6

If any assistance in completing this questionnaire is required, please write or phone the Transportation Section, Dominion Bureau of Statistics, Ottawa (phone nos. 9-67054 or 9-24275) or contact one of the Regional Offices listed below.

City	Address	Phone No.
St. John's, Nfld.	6 Freshwater Rd., (P.O. Box H-229)	3145
Halifax, N.S.	105 Hollis St., (P.O. Box 244)	3-7690
Montreal, P.Q.	Room 1016, Castle Bldg., 1410 Stanley St.	BE-4165
Toronto, Ont.	215 Victoria St.	EM-8-5907
Winnipeg, Man.	504 Winnipeg General Post Office	WH-3-4528
Edmonton, Alta.	533 Federal Public Bldg., 107th St.	GA-4-0251 (Local 258)
Vancouver, B.C.	Room 404, 326 Howe St.	PA-3238

## IMPORTANT INFORMATION - PLEASE READ CAREFULLY

## Purpose

The Dominion Bureau of Statistics is conducting this survey in order to produce more complete statistics on all phases of Motor Truck Transportation.

## Identification of Vehicle

Information contained in the large rectangle on the cover identifies the particular vehicle selected for this survey by serial number, gross vehicle weight, tare weight, make, year, and licence number, etc. **N.B. Please do not substitute any other vehicle for the one indicated.**

## Method of Selection

Vehicles are chosen at random from provincial motor vehicle registration records without regard to owner, date of registration, age or make of vehicle. No particular vehicle will be surveyed more than once during any licence year.

## Tractors

If the vehicle is a tractor, then the information requested will apply to the tractor-trailer combination.

## Units of Measure

Goods carried may be reported in gallons, cubic yards, tons, etc., if impossible to estimate in pounds. If other than pounds, please indicate the unit used.

## If Vehicle did not Operate

If this truck or tractor did not operate at all during the survey week or was not used off private property such as farm, quarry, lumber camp or industrial yard, please complete pages 5 and 6, mark the questionnaire "not used", and return.

## If Vehicle Sold

If truck or tractor was sold or is no longer in your possession, or if for any reason you cannot complete the questionnaire, please indicate the reason under "remarks" on the last page and return the book in the envelope provided.

- 4 -

## QUESTIONS TO BE ANSWERED BY EVERYONE

To the best of my knowledge, the information provided in this questionnaire is complete and correct.

Signed by \_\_\_\_\_

Official Title \_\_\_\_\_

Name of Firm or Company \_\_\_\_\_

## 1. Is this vehicle used predominantly (check (x) one)

- ☐ for revenue earning purposes (for hire or contract carrier)?
- ☐ to carry or distribute own goods on intercity routes?
- ☐ to carry or distribute own goods in urban areas?
- ☐ by a farmer to carry goods to and from the farm?
- ☐ for personal transportation?

## 2. Is this vehicle licensed in more than one province \_\_\_\_\_? (yes or no)

3. If yes, which provinces? ☐ Newfoundland ☐ Ontario
- ☐ Prince Edward Island ☐ Manitoba
- ☐ Nova Scotia ☐ Saskatchewan
- ☐ New Brunswick ☐ Alberta
- ☐ Quebec ☐ British Columbia
- ☐ Yukon and N.W.T.

- 5 -

## Appendix VI - Continued

## QUESTIONS TO BE ANSWERED BY EVERYONE

4. If this is a tractor-trailer combination, please check (✓) the type of combination below.

3 or 4 axles	5 axles	6 axles
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>		<input type="checkbox"/>

If other than shown above, please describe, indicating number of axles.

5. Model (check (✓) one)

- |   |                                   |  |
|---|-----------------------------------|--|
| <input type="checkbox"/> Pickup         | <input type="checkbox"/> Metro    | <input type="checkbox"/> Box                       |
| <input type="checkbox"/> Express        | <input type="checkbox"/> Van      | <input type="checkbox"/> Pole or logging           |
| <input type="checkbox"/> Panel          | <input type="checkbox"/> Platform | <input type="checkbox"/> Flatdeck                  |
| <input type="checkbox"/> Sedan delivery | <input type="checkbox"/> Stake    | <input type="checkbox"/> Lowbed                    |
| <input type="checkbox"/> Station wagon  | <input type="checkbox"/> Mixer    | <input type="checkbox"/> Auto carrier              |
| <input type="checkbox"/> Jeep           | <input type="checkbox"/> Dump     | <input type="checkbox"/> Bulk carrier              |
| <input type="checkbox"/> Utility        | <input type="checkbox"/> Tank     | <input type="checkbox"/> Mechanically refrigerated |
- ☐ Other, please describe \_\_\_\_\_

6. What is the maximum gross weight\* of the truck or tractor-trailer combination? \_\_\_\_\_ pounds  
 (\*Sum of weight of vehicle empty plus weight of maximum load allowed)

- 6 -

## QUESTIONS TO BE ANSWERED BY EVERYONE

7. Speedometer reading at BEGINNING of the Survey Week

\_\_\_\_\_ miles

8. Speedometer reading at the END of the Survey Week

\_\_\_\_\_ miles

If speedometer is not working please estimate your total mileage for the seven day period.

\_\_\_\_\_ miles

9. Gallons of Fuel Used (during the week)

Imperial Gallons \_\_\_\_\_

U.S. Gallons \_\_\_\_\_

10. Kind of Fuel Used (check (✓) one)

Gasoline ☐Diesel Oil ☐Other ☐

- 7 -

## URBAN OPERATIONS

- are those within a town, city or metropolitan area and a five mile limit thereof. (Exclude the urban portion of intercity trips which should be reported on page 10.)

- I. WEIGHT OF GOODS ON THE VEHICLE (estimate if necessary)

	10:00 a.m.		3:00 p.m.
Sun. _____	Pounds	_____	Pounds
Mon. _____	"	_____	"
Tues. _____	"	_____	"
Wed. _____	"	_____	"
Thurs. _____	"	_____	"
Fri. _____	"	_____	"
Sat. _____	"	_____	"

Required to determine the average load carried each day. If 10 a.m. and 3 p.m. are not fairly representative of your operations, please report loads carried at other more appropriate times.

2. TOTAL WEIGHT OF GOODS LOADED EACH DAY (estimate if necessary)

Sun. _____	Pounds	Thurs. _____	Pounds
Mon. _____	"	Fri. _____	"
Tues. _____	"	Sat. _____	"
Wed. _____	"		

3. MILES TRAVELLED EACH DAY WITHOUT LOAD

Sun. _____	Miles	Thurs. _____	Miles
Mon. _____	"	Fri. _____	"
Tues. _____	"	Sat. _____	"
Wed. _____	"		

- 8 -

## Urban Operations - concluded

4. If this vehicle is a common or for hire carrier, what was the revenue received for performing urban services during the Survey Week?

\$ \_\_\_\_\_

## RURAL OPERATIONS

1. Does the owner of this vehicle own or operate a farm?

Yes ☐ No ☐

2. If yes, is this vehicle used primarily to carry supplies to and products from that farm?

Yes ☐ No ☐

3. If the operator of this vehicle owns a farm but does not use the vehicle primarily to carry supplies to and products from that farm, then what is the primary purpose for which the vehicle is used?

Answer \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

- 9 -



# INTERCITY AND RURAL TRIP LOG

Operations beyond a five mile limit of a town, city or metropolitan area on public roads and away from private or farm property. If the exact weights are not known, please estimate. Report all trips including those without load.

INFORMATION REQUIRED	INTERCITY EXAMPLES		RURAL EXAMPLES		ONE-WAY TRIP NO. 1	ONE-WAY TRIP NO. 2	ONE-WAY TRIP NO. 3
	One-Way Trip	One-Way Trip	One-Way Trip	One-Way Trip			
1. Point of departure	Toronto	Montreal	Own Farm	St. Catharines			
2. Final destination	Montreal	Toronto	St. Catharines	Own Farm			
3. One-way mileage	350	350	23	23			
4. Via which highways? (List numbers of the highways you used)	2; 401	2; 401	8	8			
5. Weight of load on vehicle at point of departure. (pounds)	18,000	empty	1,000	500			
6. Weight of load on vehicle at point half-way between departure and destination. (pounds)	19,500	empty	1,000	500			
7. Weight of load on vehicle on arrival at final destination. (pounds)	21,000	empty	1,000	500			
8. What kinds of goods were carried? List main types giving usual trade descriptions. Please list as many kinds as you can.	furniture, electrical fixtures	nil	head lettuce	farm supplies			
9. How many pounds of goods (if any) were loaded at all intermediate points excluding point of departure?	4,500	nil	nil	nil			
10. If this vehicle is a tractor, please enter the maximum gross vehicle weight of the tractor and trailer combined.	48,000	48,000	Not applicable	Not applicable			
11. If this vehicle is a for hire or contract carrier, please estimate gross trip revenue.	\$160.00	nil	Not applicable	Not applicable			
12. Day of week	Mon.	Tues.	Mon.	Mon.			

Remarks: Please make any comments which you think will help us to understand your report.

STATISTICS CANADA LIBRARY  
BIBLIOTHÈQUE STATISTIQUE CANADA



1010705977