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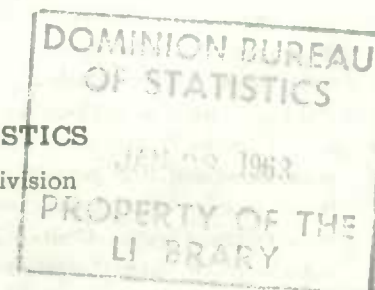
MOTOR TRANSPORT TRAFFIC
PROVINCE OF QUEBEC
1961

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TABLE OF CONTENTS

	Page
Chart 1. Truck Registrations by Type of Operation	4
2. Net Ton Miles by Type of Operation	4
Introduction	5
Section I. Traffic Performed by Quebec Registered Trucks Inside and Outside the Province, January 1 – December 31, 1961	
Table	
1. All Trucks by Type of Operation	7
2. All Trucks by Gross Vehicle Weight Group	7
3. Selected Statistics by Gross Vehicle Weight Group	8
4. Selected Statistics by Commodity Group	8
Section II. Traffic Performed by Quebec Registered Trucks Within the Province, January 1 – December 31, 1961	
5. All Trucks by Type of Operation	9
6. All Trucks by Gross Vehicle Weight Group	9
Section III. Interprovincial and International Traffic Performed by Quebec Registered Trucks, January 1 – December 31, 1961	
7. Tons of Goods Carried by Province of Origin and Destination	10
8. Selected Statistics by Commodity Group	10
Appendix	
A. Population B. Survey Response	11

PROVINCE OF QUEBEC
JANUARY 1-DECEMBER 31, 1961

CHART-1

TRUCK REGISTRATIONS BY TYPE OF OPERATION

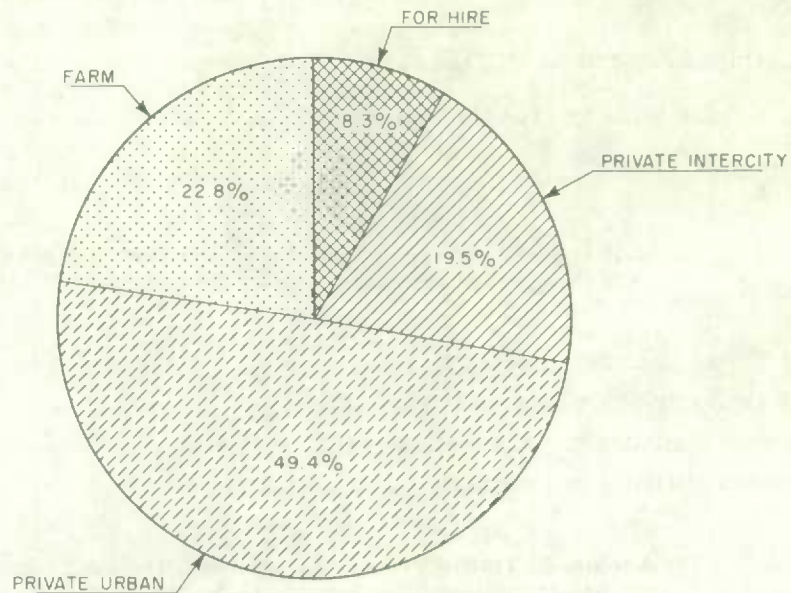
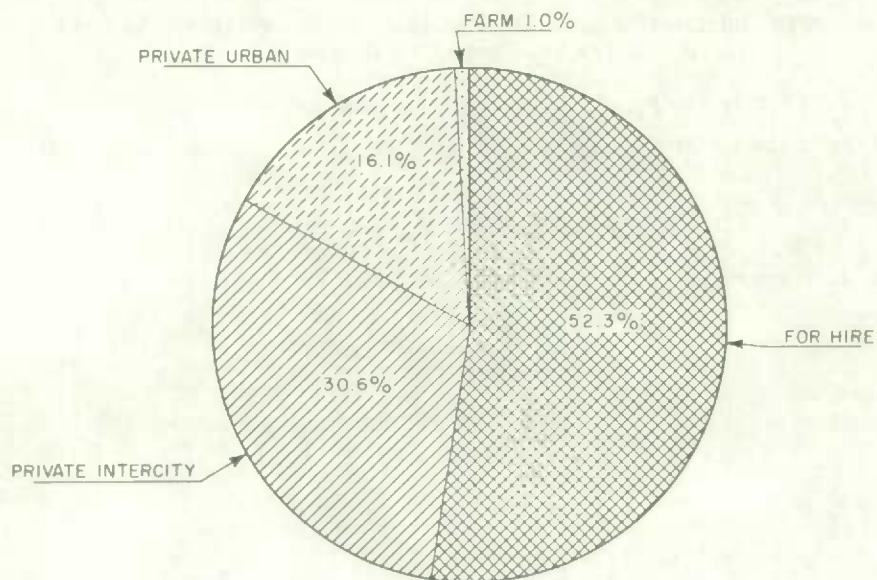


CHART-2

NET TON MILES BY TYPE OF OPERATION



INTRODUCTION

The 1961 annual report of motor transport traffic in the Province of Quebec is based upon a sample of approximately 11 per cent of trucks registered in the province. To allow for seasonal variations in traffic and to ensure that the selected vehicles represented current registrations the sample was selected in four quarterly segments with approximately one fourth of the total selected each quarter. 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, per month. The surveys were therefore spread over twelve weeks during the year.

All trucks registered in the province are represented except: (a) those not engaged in transportation services; and (b) military and other government-owned vehicles. Trailers as such were excluded from the sample, but details of tractor-trailer combinations were obtained by including the power units or tractors in the survey.

Vehicles in the sample are stratified by type of operation and by gross vehicle weight group. The four functional categories used are: for hire, private intercity, private urban and farm. For hire vehicles are those operated for compensation or gain according to licence; private intercity vehicles are those owned and operated by firms and individuals on intercity routes to transport their own goods; private urban vehicles are those operated only within urban areas; and farm trucks are those operated by farmers primarily to transport farm produce and supplies.

In this report vehicles have been classified into the four functional categories as follows:

For hire - "L" licensed vehicles
operated in intercity service
and/or urban areas.

Private intercity - "F" licensed vehicles
operated beyond urban areas.

Private urban - "F" licensed vehicles
operated only within urban
areas.

Farm - "N" licensed vehicles.

Since Quebec motor vehicles are licensed on a tare weight basis, it was necessary to estimate equivalent gross vehicle weights to provide comparability with other annual provincial reports. For each truck in the sample the gross vehicle weight was estimated from the recorded tare weight and either the estimated carrying capacity or the weight of the heaviest load carried. The gross vehicle weight of each tractor-trailer combination was estimated from the tare weight of the tractor, the estimated tare weight of the trailer plus the weight of the heaviest load carried. It is emphasized that this method provides only approximately equivalent gross vehicle weights and therefore exact provincial comparability of the weight group classification cannot be assured.

For the first time statistics are included in this report for the weight group 50,001 lb. and over, see Table 3. This information was made available due to an increase in gross vehicle weight limits permitted for the year 1961.

Further information on the history and the organization of motor transport traffic surveys may be found in the reports entitled "Motor Transport Traffic, National Estimates", catalogue no. 53-207, for 1957 to 1960.

Expansion of Survey Results

As this survey is conducted on a sample basis the data obtained for the vehicles included in the sample have to be expanded to represent the traffic of the total truck population. The methods used in this expansion of the raw data have been continually improved. Current procedures are:

1. A truck population has to be determined. As each sample is selected quarterly the number of trucks chosen in each sample multiplied by the inverse of the sample selection ratio provides an estimated quarterly population. Prior to 1959 the data for each quarterly sample were expanded to represent the total traffic of the estimated population of the same quarter. In 1959, however, it was decided that it would be preferable to expand data for the four quarterly surveys using a constant population. This constant population would be the peak quarterly population of the previous year calculated by multiplying the sample in each quarter by the inverse of the sample selection ratios.
2. The constant population has to be broken down into gross vehicle weight groups and functions. This is already partially done as sample selections are stratified by weight group. Therefore it

is only necessary to multiply the sample in each weight group by the inverse of the appropriate selection ratio to arrive at a quarterly population broken down by weight group. The four quarterly populations by gross vehicle weight are added together and an average weight group distribution for the year is computed. This weight group distribution is applied to the constant population. The population then has to be distributed by function. The average distribution of "L" and "N" licensed vehicles for the four quarterly sample populations of the previous year are used as an estimate of the for hire and farm truck populations respectively. The average distribution obtained from the previous year's completed questionnaires is used to segregate "F" licensed vehicles into either the private intercity or private urban category. The above procedure was introduced in 1959. Prior to that year the distribution by function was determined for each quarter separately.

3. When the constant population has been calculated and broken down by function and gross vehicle weight group, it is necessary to allocate vehicles included in current surveys in the same manner.

4. Expansion ratios for each gross vehicle weight group of each functional category are then calculated by determining for each breakdown the number of vehicles for which completed questionnaires were received or which were not in use during the survey period and dividing this sum into the constant population.
5. As the survey results for sample vehicles relate to one week's operations the expansion ratios calculated in (4) have to be multiplied by 13 to cover the three month period.
6. The expanded data for the four quarters are added together to arrive at an annual total.

While the changes and improvements in methods of compilation mentioned above will to some extent

influence comparisons of data between years the effects should not be overly significant. In addition it is emphasized that since the statistics contained in this report are calculated from a sample survey they are only estimates and not actual figures.

It should be noted that in 1961 the description of commodities transported by trucks was changed to conform with the revised "Standard Commodity Classification" produced by the Dominion Bureau of Statistics. Formerly commodities were classified according to the "Railway Freight Commodity Statistics Classification". The change will enable these data to be compared more easily with other commodity data produced by the Dominion Bureau of Statistics.

Review of Survey Results

The estimated population of trucks performing transportation services in Quebec during the year rose 7.4 per cent to 177,700 from 165,500 in 1960. Of these 14,800 or 8.3 per cent were for hire trucks; 34,684 or 19.5 per cent were private intercity vehicles; 87,816 or 49.4 per cent were private vehicles operating wholly within urban areas; and 40,400 or 22.8 per cent were farm trucks.

In the following tables blanks appear for some breakdowns of diesel fuel and other fuel by type of operation and by gross vehicle weight. In most of these instances no vehicles were chosen belonging to these classifications in any of the quarterly sample selections. However in one or two cases a few vehicles were selected but the data collected were considered too unreliable to publish. Even where no vehicles were selected it does not necessarily follow that there were no vehicles in the province belonging to these classifications.

Section I: Traffic Inside and Outside the Province

Section I contains estimates of total traffic performed both inside and outside the province by Quebec registered trucks.

Although comprising only 8.3 per cent of Quebec's truck population, for hire vehicles accounted for 52.3 per cent of the total net ton miles and 26.0 per cent of the total tons of goods carried during 1961. This results from the high average yearly mileage of these trucks 20,300 miles as compared with 8,700 miles for all trucks, and from the heavy average load carried of 8.3 tons compared to 4.0 tons for all trucks. Since almost one half of all for hire vehicles have a gross vehicle weight of over ten tons the heavier loads carried by these trucks are to be expected. The predominance of

heavier vehicles in the for hire class also explains the low estimate of miles per gallon of gasoline 6.5 compared with 9.3 for all trucks. It is estimated that urban operations accounted for 10.9 per cent of the total net ton miles performed by Quebec registered for hire trucks and 3.7 per cent of the total net ton miles performed by private intercity vehicles.

Some trucks in Quebec under 10,000 lb. gross vehicle weight are used essentially for personal transportation. Such vehicles accounted for about 8 per cent of the total mileage travelled by Quebec registered trucks.

Section II: Traffic Within the Province

This section presents estimates of traffic performed by Quebec registered trucks entirely inside the province and excludes the "outside the province" portion of interprovincial and international traffic as well as any traffic performed entirely outside the province. Comparing the data in Section I and Section II it will be noted that for hire vehicles accumulated 34.8 per cent and private intercity 7.8 per cent of their total net ton miles outside Quebec.

Section III: Interprovincial and International Traffic

Interprovincial and international traffic accounted for a significant proportion of the total traffic performed by for hire vehicles, representing approximately one third of the total net ton miles performed and one sixth of the revenue earned by these vehicles. Almost three quarters of the total tons of goods carried in this type of traffic by Quebec registered for hire trucks was transported to or from Ontario and one sixth to or from the United States.

Appendix

During the year survey questionnaires were sent to the owners or operators of 19,144 trucks. Of this number 8,703 were returned completed and 4,511 trucks were reported not used during the

survey week. The remaining 5,930 were either returned incomplete and unusable or not returned at all.

**SECTION I. TRAFFIC PERFORMED BY QUEBEC REGISTERED TRUCKS INSIDE AND OUTSIDE THE PROVINCE
JANUARY 1 - DECEMBER 31, 1961**

TABLE 1. All Trucks by Type of Operation

		For hire	Private			Total
			Intercity	Urban	Farm	
Mileage:						
Total mileage travelled	'000	301,145	466,899	657,216	123,553	1,550,813
Average yearly mileage per truck		20,300	13,500	7,500	3,100	8,700
Average distance each ton was carried		56.6	25.9	11.6	15.7	28.1
Percentage of total mileage travelled empty		25.2	53.3	38.9	64.6	42.6
Fuel:						
Total gallons of gasoline consumed	'000	34,950	50,303	60,395	9,355	155,003
Miles per gallon of gasoline		6.5	8.9	10.7	13.2	9.3
Total gallons of diesel oil consumed	'000	12,174	3,749	1,671	—	17,594
Miles per gallon of diesel oil		6.0	5.7	5.1	—	5.9
Total gallons of other fuel consumed	'000	—	—	—	—	—
Miles per gallon of other fuel		—	—	—	—	—
Weight of goods carried:						
Total tons of goods carried	'000	33,096	42,176	49,906	2,306	127,484
Average weight carried ¹	ton	8.3	5.0	1.4	0.8	4.0
Net ton miles:						
Total net ton miles performed	'000	1,874,685	1,093,888	577,270	36,123	3,581,966
Average net ton miles per truck		126,700	31,500	8,600	900	20,200
Capacity ton miles:						
Total capacity ton miles ²	'000	3,511,987	2,650,041	1,685,179	157,798	8,005,005
Average capacity ton miles per truck		237,300	76,400	19,200	3,900	45,000
Percentage of capacity utilized		53.4	41.3	34.3	22.9	44.7
Gross ton miles:						
Total gross ton miles ³	'000	3,989,679	2,878,281	2,294,927	269,223	9,432,110
Average gross ton miles per truck		269,600	83,000	26,100	6,700	53,100
Revenue:						
Total revenue	\$'000	157,006	—	—	—	—
Revenue per ton mile	¢	8.4	—	—	—	—
Revenue per mile (total mileage travelled)	¢	52.1	—	—	—	—
Average revenue per truck	\$	10,800	—	—	—	—
Estimated annual population		14,800	34,684	87,816	40,400	177,700

TABLE 2. All Trucks by Gross Vehicle Weight Group

	0 - 2½ tons 0 - 5,000 lb.	2½ - 5 tons 5,001 - 10,000 lb.	5 - 7½ tons 10,001 - 15,000 lb.	7½ - 10 tons 15,001 - 20,000 lb.	10 - 15 tons 20,001 - 30,000 lb.	Over 15 tons 30,001 lb. and over	Total
Mileage:							
Total mileage travelled	'000	296,516	579,583	111,242	115,523	156,764	291,185
Average yearly mileage per truck		8,000	7,600	7,600	9,600	12,000	23,900
Average distance each ton was carried		23.9	21.6	19.5	17.5	16.9	38.9
Percentage of total mileage travelled empty		55.8	49.6	29.6	30.1	32.8	30.6
Fuel:							
Total gallons of gasoline consumed	'000	19,734	47,607	12,583	14,958	22,402	37,719
Miles per gallon of gasoline		15.0	12.2	8.8	7.7	7.0	5.0
Total gallons of diesel oil consumed	'000	—	—	—	—	—	17,594
Miles per gallon of diesel oil		—	—	—	—	—	5.9
Total gallons of other fuel consumed	'000	—	—	—	—	—	—
Miles per gallon of other fuel		—	—	—	—	—	—
Weight of goods carried:							
Total tons of goods carried	'000	1,656	8,327	8,129	15,711	32,570	61,091
Average weight carried ¹	ton	0.3	0.6	2.0	3.4	5.2	11.8
Net ton miles:							
Total net ton miles performed	'000	39,564	179,650	158,655	275,023	550,980	2,378,094
Average net ton miles per truck		800	2,400	10,800	22,900	42,200	194,800
Capacity ton miles:							
Total capacity ton miles ²	'000	222,874	762,761	389,438	644,973	1,312,507	4,672,452
Average capacity ton miles per truck		4,500	10,000	26,600	53,800	100,500	382,800
Percentage of capacity utilized		17.8	23.6	40.7	42.6	42.0	50.9
Gross ton miles:							
Total gross ton miles ³	'000	466,372	1,343,732	525,217	724,817	1,279,807	5,092,185
Average gross ton miles per truck		9,400	17,700	35,900	60,400	98,000	417,200
Estimated annual population		49,833	75,967	14,642	11,992	13,063	12,203

See footnotes at end of Table 6, page 9.

TABLE 3. 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	¢
20,000 lb. and under	6,495	65,511	158,080	2.4	24.3	38,234	24.2
20,001-30,000 lb.	8,285	33,068	164,675	5.0	19.9	21,673	13.2
30,001-50,000 lb.	11,872	56,891	515,835	9.1	43.4	54,812	10.6
50,001 lb. and over	6,444	69,691	1,036,095	14.9	160.8	42,287	4.1
Totals	33,096	225,161	1,874,685	8.3	56.6	157,006	8.4
	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	1,426	77,628	55,796		0.7		39.1
10,001-20,000 lb.	7,910	45,351	157,318		3.5		19.9
20,001-30,000 lb.	13,756	44,491	269,032		6.0		19.6
30,001-50,000 lb.	13,342	32,317	307,282		9.5		23.0
50,001 lb. and over	5,742	19,206	304,460		15.9		53.0
Totals	42,176	218,993	1,093,888		5.0		25.9

TABLE 4. 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	¢
Live animals	125	2,421	16,268	6.7	129.9	1,127	6.9
Food, feed, beverages and tobacco	4,292	52,705	392,328	7.4	91.4	22,613	5.8
Crude materials, inedible	10,574	13,320	145,672	10.9	13.8	10,478	7.2
Fabricated materials, inedible	6,659	32,710	428,410	13.1	64.3	25,869	6.0
End products, inedible	3,299	47,818	295,004	6.2	89.4	40,468	13.7
General freight	8,147	76,187	597,003	7.8	73.3	56,451	9.5
Totals	33,096	225,161	1,874,685	8.3	56.6	157,006	8.4
	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		
Live animals	332	5,440	18,952		3.5		57.1
Food, feed, beverages and tobacco	4,128	69,615	251,820		3.6		61.0
Crude materials, inedible	26,013	33,494	313,392		9.4		12.0
Fabricated materials, inedible	8,999	37,554	346,014		9.2		38.4
End products, inedible	1,582	46,568	92,973		2.0		58.2
General freight	1,122	26,322	70,737		2.7		63.9
Totals	42,176	218,993	1,093,888		5.0		25.9

**SECTION II. TRAFFIC PERFORMED BY QUEBEC REGISTERED TRUCKS WITHIN THE PROVINCE
JANUARY 1 - DECEMBER 31, 1961**

TABLE 5. All Trucks by Type of Operation

		For hire	Private			Total
			Intercity	Urban	Farm	
Mileage:						
Total mileage travelled	'000	247,928	455,666	657,216	123,553	1,484,363
Average yearly mileage per truck		16,800	13,400	7,500	3,100	8,400
Average distance each ton was carried		37.1	24.0	11.6	15.7	22.4
Percentage of total mileage travelled empty		28.4	53.8	38.9	64.6	43.9
Fuel:						
Total gallons of gasoline consumed	'000	31,432	48,601	60,395	9,355	149,783
Miles per gallon of gasoline		6.7	9.0	10.7	13.2	9.5
Total gallons of diesel oil consumed	'000	5,225	3,290	1,671	—	11,186
Miles per gallon of diesel oil		6.0	5.8	5.1	—	5.8
Total gallons of other fuel consumed	'000	—	—	—	—	—
Miles per gallon of other fuel		—	—	—	—	—
Weight of goods carried:						
Total tons of goods carried	'000	32,986	42,000	49,906	2,306	127,198
Average weight carried ¹	ton	6.9	4.8	1.4	0.8	3.4
Net ton miles:						
Total net ton miles performed	'000	1,222,677	1,008,711	577,270	36,123	2,844,781
Average net ton miles per truck		82,600	29,100	6,600	900	16,000
Capacity ton miles:						
Total capacity ton miles ²	'000	2,494,094	2,482,340	1,685,179	157,798	6,819,411
Average capacity ton miles per truck		168,500	71,600	19,200	3,900	38,400
Percentage of capacity utilized		49.0	40.6	34.3	22.9	41.7
Gross ton miles:						
Total gross ton miles ³	'000	2,760,483	2,695,530	2,294,927	269,223	8,020,163
Average gross ton miles per truck		186,500	77,700	26,100	6,700	45,100
Revenue:						
Total revenue	\$'000	135,358	—	—	—	—
Revenue per ton mile	¢	11.1	—	—	—	—
Revenue per mile (total mileage travelled)	¢	54.6	—	—	—	—
Average revenue per truck	\$	9,100	—	—	—	—
Estimated annual population		14,800	34,684	87,816	40,400	177,700

TABLE 6. All Trucks by Gross Vehicle Weight Group

	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total
Mileage:							
Total mileage travelled	'000	296,516	577,993	111,072	114,905	153,135	1,484,363
Average yearly mileage per truck		6,000	7,600	7,600	9,600	11,700	8,400
Average distance each ton was carried		23.9	21.3	19.5	17.4	16.5	22.4
Percentage of total mileage travelled empty		55.8	49.6	29.6	30.0	32.7	43.9
Fuel:							
Total gallons of gasoline consumed	'000	19,734	47,496	12,556	14,884	21,912	149,783
Miles per gallon of gasoline		15.0	12.2	8.8	7.7	7.0	9.5
Total gallons of diesel oil consumed	'000	—	—	—	—	—	11,186
Miles per gallon of diesel oil		—	—	—	—	—	5.8
Total gallons of other fuel consumed	'000	—	—	—	—	—	—
Miles per gallon of other fuel		—	—	—	—	—	—
Weight of goods carried:							
Total tons of goods carried	'000	1,656	8,327	8,129	15,711	32,570	127,198
Average weight carried ¹	ton	0.3	0.6	2.0	3.4	5.2	3.4
Net ton miles:							
Total net ton miles performed	'000	39,564	177,345	158,125	273,381	537,674	2,844,781
Average net ton miles per truck		800	2,300	10,800	22,800	41,200	16,000
Capacity ton miles:							
Total capacity ton miles ²	'000	222,874	759,149	388,361	640,581	1,282,463	6,819,411
Average capacity ton miles per truck		4,500	10,000	26,500	53,400	98,200	38,400
Percentage of capacity utilized		17.8	23.4	40.7	42.7	41.9	41.7
Gross ton miles:							
Total gross ton miles ³	'000	466,372	1,337,585	524,208	720,606	1,249,941	8,020,163
Average gross ton miles per truck		9,400	17,600	35,800	60,100	95,700	45,100
Estimated annual population		49,833	75,967	14,642	11,992	13,063	177,700

¹ Net ton miles divided by miles travelled with load.² 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.³ 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 III. INTERPROVINCIAL AND INTERNATIONAL TRAFFIC PERFORMED BY QUEBEC REGISTERED TRUCKS
JANUARY 1 - DECEMBER 31, 1961**

TABLE 7. Tons of Goods Carried by Province of Origin and Destination

Origin and destination	For hire			Private intercity			Total		
	Into Quebec	Out of Quebec	Total	Into Quebec	Out of Quebec	Total	Into Quebec	Out of Quebec	Total
	*000 tons								
Newfoundland	—	—	—	—	—	—	—	—	—
Prince Edward Island	2	2	4	—	—	—	2	2	4
Nova Scotia	3	6	9	—	1	1	3	7	10
New Brunswick	24	47	71	21	36	57	45	83	128
Ontario	554	612	1,166	111	379	490	665	991	1,656
Manitoba	3	3	6	—	—	—	3	3	6
Saskatchewan	—	—	—	2	2	4	2	2	4
Alberta	41	42	83	—	—	—	41	42	83
British Columbia	—	—	—	—	—	—	—	—	—
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—
United States	109	143	252	187	61	248	296	204	500
Totals	736	855	1,591	321	479	800	1,057	1,334	2,391

TABLE 8. Selected Statistics by Commodity Group

Commodity group	For hire						
	Weight of goods carried	Total miles travelled with load	Total net miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	*000 tons	*000	*000	tons	miles	\$*000	¢
Live animals	1	121	799	6.6	697.4	60	7.5
Food, feed, beverages and tobacco	275	10,695	144,105	13.5	522.6	4,647	3.2
Crude materials, inedible	112	1,658	28,666	17.3	255.1	892	3.1
Fabricated materials, inedible	449	8,424	115,272	13.7	257.2	4,772	4.1
End products, inedible	433	14,387	139,405	9.7	322.1	9,205	6.6
General freight	321	12,475	181,174	14.5	564.2	4,858	2.7
Totals	1,591	47,760	609,421	12.8	383.0	24,434	4.0
	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		
Live animals	13	554	3,326	6.0	248.7		
Food, feed, beverages and tobacco	141	3,553	42,012	11.8	297.8		
Crude materials, inedible	377	2,396	30,106	12.6	79.9		
Fabricated materials, inedible	195	2,804	23,044	8.2	118.4		
End products, inedible	50	1,765	10,568	6.0	209.0		
General freight	24	810	4,700	5.8	203.4		
Totals	800	11,882	113,756	9.6	142.3		

APPENDIX

Type of operation	A. Population						
	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total
Estimated Quebec truck population in 1961							
For hire.....	448	2,414	2,351	2,562	2,728	4,297	14,800
Private:							
Intercity	6,892	13,004	2,853	3,256	4,845	3,834	34,684
Urban	22,940	42,392	7,416	5,595	5,401	4,072	87,816
Farm	19,553	18,157	2,022	579	89	—	40,400
Totals	49,833	75,967	14,642	11,992	13,063	12,203	177,700
B. Survey Response							
	Total number of trucks selected in samples	Number of questionnaires returned completed		Number of sampled trucks reported not in use during survey week		Number of questionnaires not returned or returned incomplete and unusable	
For hire.....	4,250	2,341		746		1,163	
Private:							
Intercity	5,398	2,367		1,385		1,646	
Urban	8,279	3,550		2,055		2,674	
Farm	1,217	445		325		447	
Totals	19,144	8,703		4,511		5,830	

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