

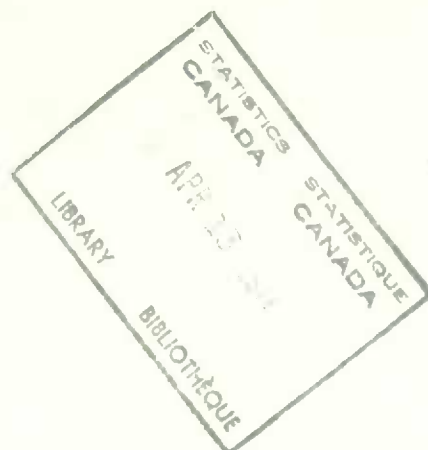
1963

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MOTOR TRANSPORT TRAFFIC
PROVINCE OF MANITOBA
1963

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ROAD TRANSPORT

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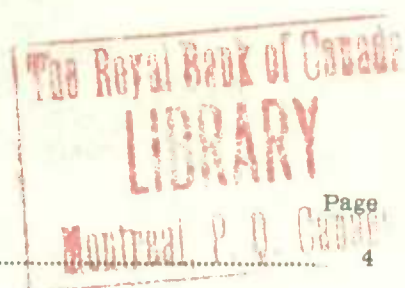
Motor Transport Traffic

Each of the following series of eight annual reports provides
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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 Manitoba Registered Trucks Inside and Outside the Province, January 1 – December 31, 1963

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 Manitoba Registered Trucks Within the Province, January 1 – December 31, 1963

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 Manitoba Registered Trucks, January 1 – December 31, 1963

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
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PROVINCE OF MANITOBA
JANUARY 1 - DECEMBER 31, 1963

CHART - 1

TRUCK REGISTRATIONS BY TYPE OF OPERATION

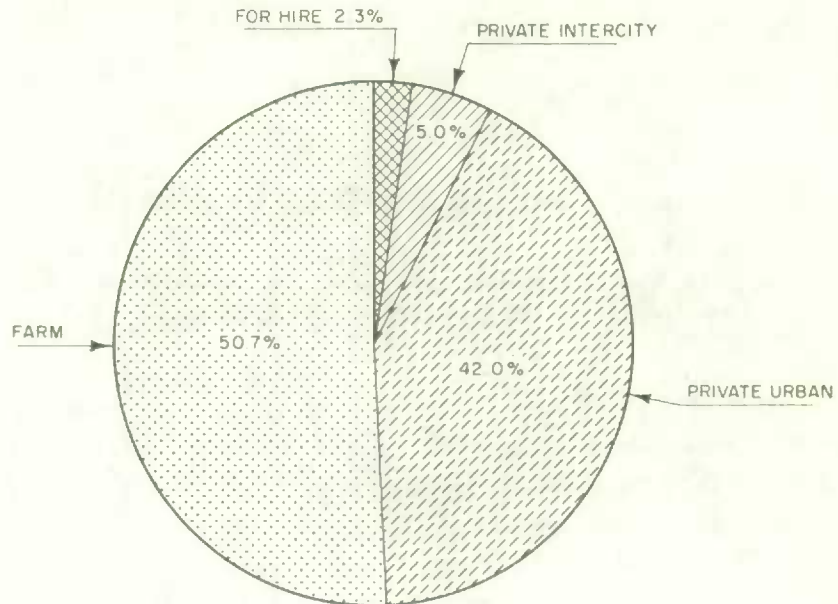
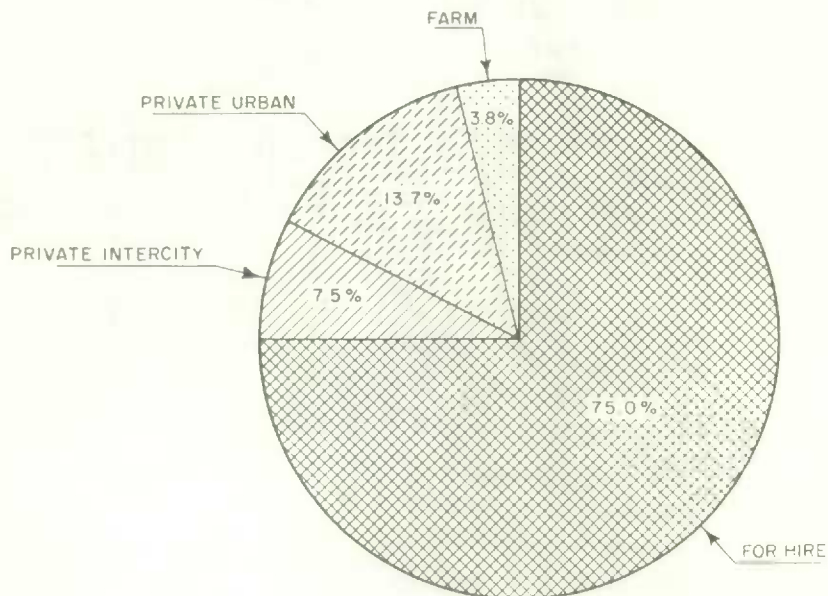


CHART - 2

NET TON MILES BY TYPE OF OPERATION



INTRODUCTION

The 1963 annual report of motor transport traffic in the Province of Manitoba is based upon a sample of approximately 10 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 Manitoba, trucks operated on a highway for compensation are classed as Public Service Vehi-

cles and are issued with a "PSV" licence plate. Vehicles owned and operated on intercity routes by business, industry and individuals to transport their own raw materials, finished goods and merchandise are classed as commercial trucks and issued with a "CT" licence. Those operated in or within fifteen miles of any city, town or village in which the owner has his place of business are issued with a "T" or a "DC" licence. Trucks owned and operated by farmers are issued with an "FT" licence.

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

- | | |
|-------------------|-----------------------------------|
| For hire | - "PSV" licensed vehicles. |
| Private intercity | - "CT" licensed vehicles. |
| Private urban | - "T" and "DC" licensed vehicles. |
| Farm | - "FT" licensed vehicles. |

A number of urban trucks are operated for compensation but these vehicles are not included in the for hire category. As a result, the data shown throughout this report as "for hire" are understated and those for the "private urban" category are overstated by the extent of the urban for hire vehicles classified as "private urban".

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 1962.

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 licence and weight group. Therefore it is only necessary to multiply the sample in each weight group of each licence category by the inverse of the appropriate selection ratio to arrive at a quarterly population. The four quarterly populations by gross vehicle weight and licence category are added together and an average weight group and licence category distribution for the year is computed. This weight group and licence category distribution is applied to the constant population. Each licence category corresponds to one of the four functional categories. The above procedure was introduced in 1959. Prior to that year the distribution by function and weight group 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 Manitoba during the year rose 4.6 per cent to 70,400 from 67,300 in 1962. Of these 1,600 or 2.3 per cent were for hire trucks; 3,500 or 5.0 per cent were private intercity vehicles; 29,600 or 42.0 per cent were private vehicles operating wholly within urban areas; and 35,700 or 50.7 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 Manitoba registered trucks.

Although comprising only 2.3 per cent of Manitoba's truck population, for hire vehicles accounted for 75.0 per cent of the total net ton miles and 11.6 per cent of the total tons of goods carried during 1963. This results from the high average yearly mileage of these trucks, 60,500 miles as compared to 6,300 miles for all trucks, and from the heavy average load carried of 13.8 tons compared to 6.4 tons for all trucks. Since more than four fifths of the for hire vehicles have a gross vehicle weight of over 10 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, 5.4 compared with 9.4 for all trucks.

It is estimated that urban operations accounted for 0.3 per cent of the total net ton miles performed by Manitoba registered for hire trucks and 13.8 per cent of the total net ton miles performed by private intercity vehicles.

Some trucks in Manitoba under 10,000 lb. gross vehicle weight are used essentially for personal transportation. Such vehicles accounted for 9.8 per cent of the total mileage travelled by Manitoba registered trucks.

Section II: Traffic Inside the Province

This section presents estimates of traffic performed by Manitoba 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 33.9 per cent and private intercity 77.9 per cent of their total net ton miles inside Manitoba.

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 71.3 per cent of the total net ton miles performed and 47.8 per cent of the revenue earned by these vehicles. Over one third of the total tons of goods carried in this type of traffic by Manitoba registered for hire trucks was transported to or from Ontario and almost 40 per cent was moved to or from Saskatchewan.

Appendix

During the year survey questionnaires were sent to the owners or operators of 7,009 trucks. Of this number 2,488 were returned completed and

1,895 trucks were reported not used during the survey week. The remaining 2,626 were either returned incomplete and unusable or not returned at all.

February 18, 1965.

**SECTION I. TRAFFIC PERFORMED BY MANITOBA REGISTERED TRUCKS INSIDE AND OUTSIDE THE PROVINCE
JANUARY 1 - DECEMBER 31, 1963**

TABLE 1. All Trucks by Type of Operation

		For hire	Private			Total
			Intercity	Urban	Farm	
Mileage:						
Total mileage travelled	'000	96,852	48,949	210,676	84,267	440,744
Average yearly mileage per truck		60,500	14,000	7,100	2,400	6,300
Average distance each ton was carried		316.6	48.3	11.1	9.6	49.2
Percentage of total mileage travelled empty		18.0	39.7	57.5	63.5	48.0
Fuel:						
Total gallons of gasoline consumed	'000	7,146	5,439	20,231	7,301	40,117
Miles per gallon of gasoline		5.4	8.5	10.4	11.5	9.4
Total gallons of diesel oil consumed	'000	9,570	409	260	—	10,239
Miles per gallon of diesel oil		6.1	5.8	4.8	—	6.1
Total gallons of other fuel consumed	'000	17	61	—	—	78
Miles per gallon of other fuel		5.6	5.3	—	—	5.4
Weight of goods carried:						
Total tons of goods carried	'000	3,464	2,263	18,169	5,862	29,758
Average weight carried ¹	ton	13.8	3.7	2.2	1.8	6.4
Net ton miles:						
Total net ton miles performed	'000	1,096,577	109,197	201,096	56,079	1,462,949
Average net ton miles per truck		685,400	31,200	6,800	1,600	20,800
Capacity ton miles:						
Total capacity ton miles ²	'000	1,622,568	259,563	625,329	192,016	2,699,476
Average capacity ton miles per truck		1,014,100	74,200	21,100	5,400	38,300
Percentage of capacity utilized		67.6	42.1	32.2	29.2	54.2
Gross ton miles:						
Total gross ton miles ³	'000	2,335,475	323,801	808,290	269,187	3,736,753
Average gross ton miles per truck		1,459,700	92,500	27,300	7,500	53,100
Revenue:						
Total revenue	\$'000	46,279	—	—	—	—
Revenue per ton mile	¢	4.2	—	—	—	—
Revenue per mile (total mileage travelled)	¢	47.8	—	—	—	—
Average revenue per truck	\$	28,900	—	—	—	—
Estimated annual population		1,600	3,500	29,600	35,700	70,400

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 56,106	189,414	20,592	31,736	31,602	111,294	440,744
Average yearly mileage per truck	7,700	4,300	3,500	4,700	10,000	37,200	6,300
Average distance each ton was carried	27.7	12.1	11.1	12.4	15.9	90.5	49.2
Percentage of total mileage travelled empty	73.6	60.0	36.8	37.5	33.9	23.8	48.0
Fuel:							
Total gallons of gasoline consumed	'000 3,671	16,094	2,209	4,178	4,273	9,692	40,117
Miles per gallon of gasoline	15.3	11.8	9.3	7.6	7.3	5.1	9.4
Total gallons of diesel oil consumed	'000 —	—	—	—	—	10,239	10,239
Miles per gallon of diesel oil	—	—	—	—	—	6.1	6.1
Total gallons of other fuel consumed	'000 —	—	—	—	61	17	78
Miles per gallon of other fuel	—	—	—	—	5.3	5.6	5.4
Weight of goods carried:							
Total tons of goods carried	'000 203	3,392	1,979	4,943	5,468	13,773	29,758
Average weight carried ¹	ton 0.4	0.5	1.7	3.1	4.2	14.7	6.4
Net ton miles:							
Total net ton miles performed	'000 5,640	40,990	21,864	61,472	86,879	1,246,104	1,462,949
Average net ton miles per truck	800	900	3,700	9,100	27,400	416,900	20,800
Capacity ton miles:							
Total capacity ton miles ²	'000 47,664	243,014	68,773	167,166	225,675	1,947,184	2,699,476
Average capacity ton miles per truck	6,500	5,500	11,500	24,700	71,200	651,500	38,300
Percentage of capacity utilized	11.8	16.9	31.8	36.8	38.5	64.0	54.2
Gross ton miles:							
Total gross ton miles ³	'000 97,695	435,360	93,302	190,080	237,066	2,683,250	3,736,753
Average gross ton miles per truck	13,400	9,800	15,600	28,100	74,800	897,700	53,100
Estimated annual population	7,316	44,206	5,964	6,756	3,169	2,989	70,400

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	133	2,595	5,136	2.0	38.7	955	18.6
20,001-30,000 lb.	363	5,921	21,910	3.7	60.3	2,693	12.3
30,001-50,000 lb.	384	7,973	53,278	6.7	138.8	5,400	10.1
50,001 lb. and over	2,584	62,902	1,016,253	16.2	393.4	37,231	3.7
Totals	3,464	79,391	1,096,577	13.8	316.6	46,279	4.2
	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	129	13,169	8,076		0.6		62.4
10,001-20,000 lb.	397	5,647	11,630		2.1		29.3
20,001-30,000 lb.	597	5,384	21,817		4.1		36.6
30,001 lb. and over	1,140	5,297	67,674		12.8		59.4
Totals	2,263	29,497	109,197		3.7		48.3

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	214	4,902	39,121	8.0	183.0	2,280	5.8
Food, feed, beverages and tobacco	516	15,843	201,600	12.7	391.0	8,505	4.2
Crude materials, inedible	207	1,921	33,424	17.4	161.2	953	2.9
Fabricated materials, inedible	1,081	11,352	208,693	18.4	193.0	8,673	4.2
End products, inedible	308	11,833	121,671	10.3	395.7	6,514	5.4
General freight	1,138	33,540	492,068	14.7	432.3	19,354	3.9
Totals	3,464	79,391	1,096,577	13.8	316.6	46,279	4.2
	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	34	1,462	7,243		5.0		214.6
Food, feed, beverages and tobacco	400	7,851	33,444		4.3		83.7
Crude materials, inedible	281	480	5,443		11.3		19.3
Fabricated materials, inedible	1,186	6,472	44,876		6.9		37.8
End products, inedible	306	11,339	15,600		1.4		51.0
General freight	56	1,893	2,591		1.4		46.4
Totals	2,263	29,497	109,197		3.7		48.3

**SECTION II. TRAFFIC PERFORMED BY MANITOBA REGISTERED TRUCKS WITHIN THE PROVINCE
JANUARY 1 – DECEMBER 31, 1963**

TABLE 5. All Trucks by Type of Operation

		For hire	Private			Total
			Intercity	Urban	Farm	
Mileage:						
Total mileage travelled.....	'000	46,145	46,511	210,676	84,267	387,599
Average yearly mileage per truck.....		28,800	13,300	7,100	2,400	5,500
Average distance each ton was carried.....		114.5	37.9	11.1	9.6	24.2
Percentage of total mileage travelled empty.....		24.2	40.4	57.5	63.5	52.8
Fuel:						
Total gallons of gasoline consumed.....	'000	5,041	5,184	20,231	7,301	37,757
Miles per gallon of gasoline.....		5.9	8.7	10.4	11.5	9.8
Total gallons of diesel oil consumed.....	'000	2,607	224	260	—	3,091
Miles per gallon of diesel oil.....		6.2	5.4	4.8	—	6.0
Total gallons of other fuel consumed.....	'000	17	61	—	—	78
Miles per gallon of other fuel.....		5.6	5.3	—	—	5.4
Weight of goods carried:						
Total tons of goods carried.....	'000	3,246	2,247	18,169	5,862	29,524
Average weight carried ¹	ton	10.6	3.1	2.2	1.8	3.9
Net ton miles:						
Total net ton miles performed.....	'000	371,797	85,091	201,096	56,079	714,063
Average net ton miles per truck.....		232,400	24,300	6,800	1,600	10,100
Capacity ton miles:						
Total capacity ton miles ²	'000	675,809	216,131	625,329	192,016	1,709,285
Average capacity ton miles per truck.....		22,400	61,800	21,100	5,400	24,300
Percentage of capacity utilized.....		55.0	39.4	32.2	29.2	41.8
Gross ton miles:						
Total gross ton miles ³	'000	880,635	267,600	808,290	269,187	2,225,712
Average gross ton miles per truck.....		550,400	76,500	27,300	7,500	31,600
Revenue:						
Total revenue.....	\$'000	24,368	—	—	—	—
Revenue per ton mile.....	¢	6.6	—	—	—	—
Revenue per mile (total mileage travelled).....	¢	52.9	—	—	—	—
Average revenue per truck.....	\$	15,300	—	—	—	—
Estimated annual population.....		1,600	3,500	29,600	35,700	70,400

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	56,106	189,414	20,592	31,728	31,446	387,599
Average yearly mileage per truck		7,700	4,300	3,500	4,700	9,900	5,500
Average distance each ton was carried		27.7	12.1	11.1	12.4	15.9	24.2
Percentage of total mileage travelled empty		73.6	60.0	36.8	37.5	33.9	52.8
Fuel:							
Total gallons of gasoline consumed	'000	3,671	16,094	2,209	4,178	3,949	37,757
Miles per gallon of gasoline		15.3	11.8	9.3	7.6	7.9	9.8
Total gallons of diesel oil consumed	'000	—	—	—	—	—	3,091
Miles per gallon of diesel oil		—	—	—	—	—	6.0
Total gallons of other fuel consumed	'000	—	—	—	—	61	78
Miles per gallon of other fuel		—	—	—	—	5.3	5.4
Weight of goods carried:							
Total tons of goods carried	'000	203	3,392	1,978	4,943	5,465	29,524
Average weight carried ¹	ton	0.4	0.5	1.7	3.1	4.2	3.9
Net ton miles:							
Total net ton miles performed	'000	5,640	40,990	21,864	61,466	86,649	714,063
Average net ton miles per truck		600	900	3,700	9,100	27,300	10,100
Capacity ton miles:							
Total capacity ton miles ²	'000	47,664	243,014	68,773	167,107	224,489	1,709,285
Average capacity ton miles per truck		6,500	5,500	11,500	24,700	70,800	24,300
Percentage of capacity utilized		11.8	16.9	31.8	36.8	38.6	41.8
Gross ton miles:							
Total gross ton miles ³	'000	97,695	435,360	93,302	190,035	236,070	2,225,712
Average gross ton miles per truck		13,400	9,800	15,600	28,100	74,500	31,600
Estimated annual population		7,316	44,206	5,964	6,756	3,169	70,400

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 MANITOBA REGISTERED TRUCKS
JANUARY 1—DECEMBER 31, 1963**

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

Origin and destination	For hire			Private intercity			Total		
	Into Manitoba	Out of Manitoba	Total	Into Manitoba	Out of Manitoba	Total	Into Manitoba	Out of Manitoba	Total
	'000 tons								
Newfoundland	—	—	—	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—	—	—	—
Nova Scotia	—	—	—	—	—	—	—	—	—
New Brunswick	—	—	—	—	—	—	—	—	—
Quebec	52	53	105	—	—	—	52	53	105
Ontario	154	234	388	3	18	21	157	252	409
Saskatchewan	245	193	438	15	10	25	260	203	463
Alberta	67	95	162	2	2	4	69	97	166
British Columbia	11	6	17	—	—	—	11	6	17
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—
United States	5	3	8	9	5	14	14	8	22
Totals	534	584	1,118	29	35	64	563	619	1,182

TABLE 8. 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	33	1,335	13,466	10.1	410.7	513	3.8
Food, feed, beverages and tobacco	143	9,566	155,093	16.2	1,085.3	2,989	1.9
Crude materials, inedible	24	1,464	29,862	20.4	1,244.0	570	1.9
Fabricated materials, inedible	279	6,672	127,935	19.2	458.0	3,637	3.0
End products, inedible	86	6,599	77,536	11.7	900.7	3,343	4.3
General freight	553	21,793	378,570	17.4	685.0	10,881	2.9
Totals	1,118	47,429	782,462	16.5	700.1	22,133	2.8
	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	—	—	—	—	—		
Food, feed, beverages and tobacco	26	588	6,873	11.7	270.0		
Crude materials, inedible	15	89	1,120	12.6	76.4		
Fabricated materials, inedible	18	841	11,965	14.2	654.7		
End products, inedible	5	185	2,454	13.3	449.0		
General freight	—	—	—	—	—		
Totals	64	1,703	22,412	13.2	351.0		

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 Manitoba truck population in 1963						
For hire	—	—	41	162	264	1,133	1,600
Private:							
Intercity	—	2,148	254	345	459	294	3,500
Urban	5,448	16,725	1,492	2,928	1,574	1,433	29,600
Farm	1,868	25,333	4,177	3,321	872	129	35,700
Totals	7,316	44,206	5,964	6,756	3,169	2,889	70,400
	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	768	450		107		211	
Private:							
Intercity	611	334		136		141	
Urban	3,970	1,327		1,050		1,593	
Farm	1,660	377		602		881	
Totals	7,009	2,488		1,895		2,626	

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