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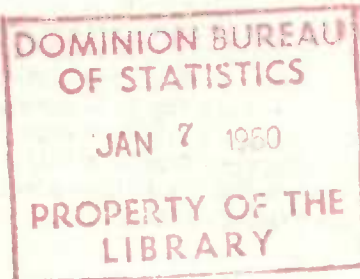
ANNUAL

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CANADA

MOTOR TRANSPORT TRAFFIC  
PROVINCE OF MANITOBA  
1958



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PROVINCE OF MANITOBA  
JANUARY 1-DECEMBER 31, 1958

CHART - 1

TRUCK REGISTRATIONS BY TYPE OF OPERATION

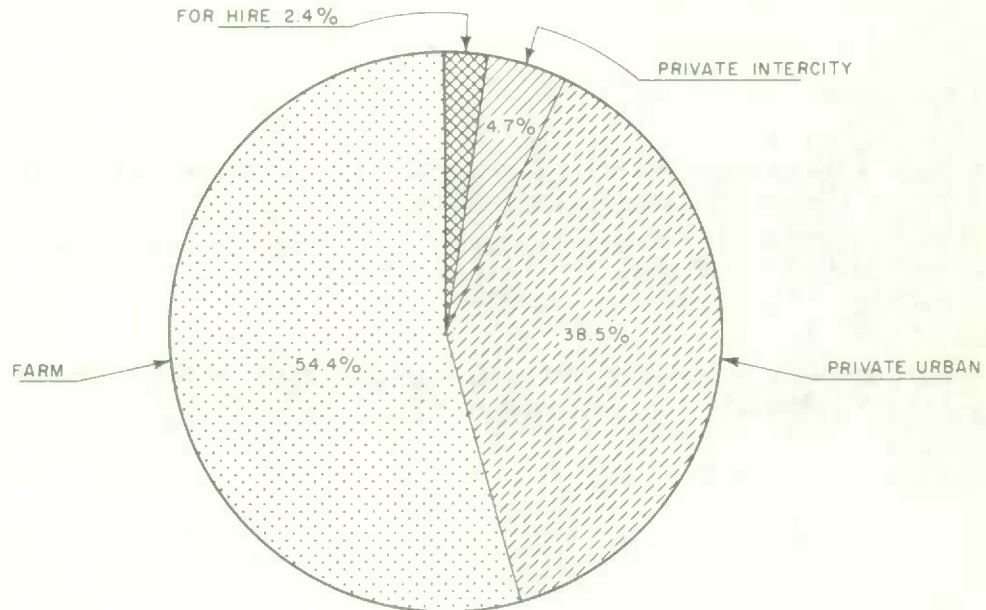
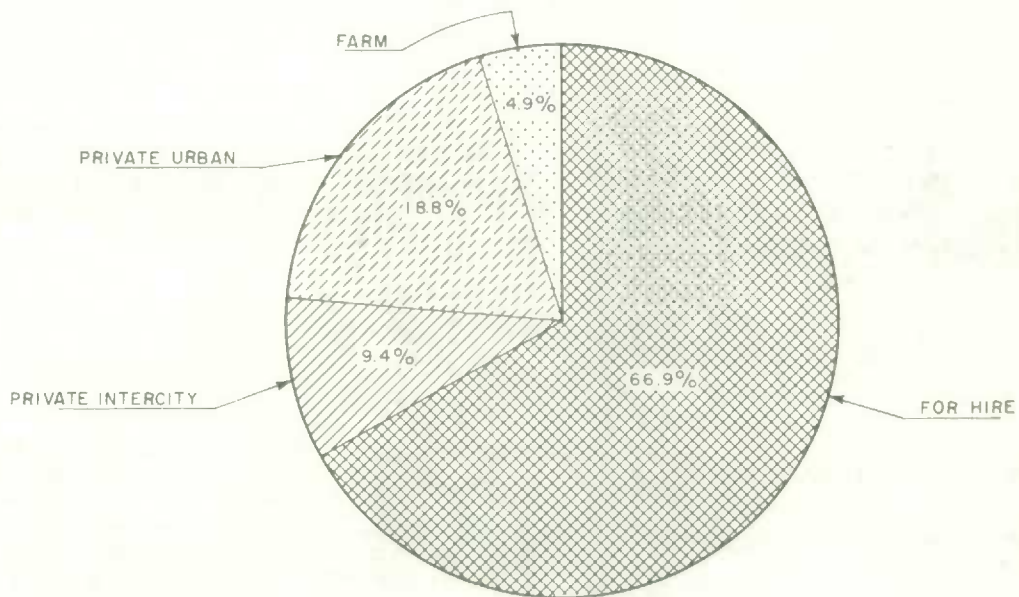


CHART - 2

NET TON MILES BY TYPE OF OPERATION





## INTRODUCTION

The 1958 annual report of motor transport traffic in the Province of Manitoba is based upon a sample of approximately 11 per cent of trucks and 45 per cent of intercity buses 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. Beginning in 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, per month. Previously each quarterly sample was concentrated in one survey week so that the total sample for the year was spread over only four weeks. Statistics compiled for 1958, therefore, have been based on surveys spread over ten weeks. As a result a much better representation of truck traffic has been obtained.

All trucks and buses registered in the province are represented except: (a) those not engaged in transportation services; (b) buses utilized for scheduled urban transit and school buses; (c) 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 groups. The four functional categories used are: for-hire, private intercity, private urban and farm. For-hire vehicles are those operated for compensation or gain ac-

cording 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 predominantly 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 Vehicles 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.

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 that for the "private urban" category are overstated by the extent of those 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 report entitled "Motor Transport Traffic Statistics, National Estimates, 1957".

### Expansion of Survey Results

The distribution of sample vehicles by gross vehicle weight groups and by type of operation was used to provide population estimates as at the time of the sample selection. Sample results were then expanded to represent the operations of all trucks registered in the province by multiplying the

sample results by the inverse ratio of the sample to the population and by the ratio of three months to one week. The expanded data for each of the four quarterly segments were added together to obtain annual provincial estimates.

### Review of Survey Results

Significant increases in for-hire truck transport in Manitoba during 1958 over 1957 levels are evident. This growth may be attributed to:

1. An increase in the number of for-hire trucks registered in Manitoba.
2. Raising of the gross vehicle weight limits on several Manitoba highways.
3. An increase in the rate of economic growth of the province.

Excluding vehicles which do not perform transportation services, the average number of

trucks registered in Manitoba during the year was 54,728. Of these 1,329 or 2.4 per cent were for-hire carriers; 2,553 or 4.7 per cent were private intercity vehicles; 21,063 or 38.5 per cent were private vehicles operating predominantly within urban areas; and 29,783 or 54.4 per cent were farm trucks.

In the tables presented herein blanks appear in a number of weight classifications where no vehicles were chosen in any of the quarterly sample selections. It does not necessarily follow that there are 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 by all Manitoba registered trucks both inside and outside the province.

Although comprising only 2.4 per cent of Manitoba's truck population, for-hire vehicles accounted for 66.9 per cent of total net ton miles and 10.0 per cent of total tons of goods carried during 1958. This results from the high average yearly mileage of these trucks, 47,900 as compared with 6,100 miles for all trucks, and from the heavy average load carried (9.8 tons as compared with 4.7 for all trucks). The heavier loads carried by for-hire trucks are to be expected since almost three-fourths of these vehicles have a gross weight of over 10 tons. The predominance of heavier vehicles in the for-hire class also explains the low miles per gallon of gasoline estimate of 6.1 as compared with a ratio of 9.6 for all trucks.

It is estimated that approximately 1 per cent of the total ton miles performed by for-hire trucks inside and outside of Manitoba was urban operations. This does not include the urban portion of intercity trips.

Some trucks in Manitoba are used essentially for personal transportation. Such vehicles account for about 10 per cent of the total mileage travelled by Manitoba registered trucks.

## Section II: Traffic Within 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 66.1 per cent and private intercity 13.3 per cent of their total net ton miles outside of Manitoba.

## Section III: Intraprovincial Traffic

This section includes statistics of for-hire and private intercity operations originating and terminating entirely inside the boundaries of Manitoba.

It is estimated that of the total net ton miles performed by for-hire trucks, general freight accounted for 36.7 per cent of the commodities carried and of those performed by private intercity vehicles, manufactured products accounted for 62.9 per cent of the total.

## Section IV: Interprovincial and International Traffic

Estimates indicate that more than four-fifths of the total tons of goods carried by Manitoba registered for-hire trucks in interprovincial and international traffic was transferred to or from Ontario and Saskatchewan; and, almost three-fourths of the total net ton miles performed and two-thirds of the revenue earned by for-hire trucks was in interprovincial and international traffic.

## Sections V and VI: Intercity Bus Traffic

Section V provides estimates of intercity bus traffic both inside and outside the province while Section VI covers traffic within the province only. Almost three-fifths of the total passenger miles performed and revenue earned by Manitoba registered buses was estimated to be outside the boundaries of the province. This situation occurs because a large percentage of buses were licensed in other provinces as well and travelled extensively outside the province during the survey weeks.

## Appendix I

During the year survey questionnaires were sent to the owners or operators of 6,123 trucks. Of this number 2,680 questionnaires were returned completed and 1,938 trucks were reported not used during the survey week. In addition 853 questionnaires were returned with insufficient information. Non-response totalled 652 or 10.6 per cent.

## Reliability of Motor Transport Traffic Statistics

Because of an improved sample and refinement of techniques of processing motor transport traffic data, 1958 results are considered to be more reliable than those published for 1957.

### (a) Non-Sampling Variability

A certain amount of variance in motor transport traffic statistics will arise from non-sampling factors including improper reporting by the respondent due to misinterpretation of questions or deliberate mis-statements. 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 of the sampling error have, however, been calculated for the following class totals (see

Appendix 2): (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 group. Of the various types of data presented, the most stable statistics are "total mileage travelled" while variability seems greatest for "weight of goods carried". This is understandable when we consider that trucks may travel with little or no load so that there is a naturally wide range of weight carried.

November 2, 1959.



**SECTION 1. TRAFFIC PERFORMED BY MANITOBA REGISTERED TRUCKS INSIDE AND OUTSIDE THE PROVINCE,  
JANUARY 1-DECEMBER 31, 1958**

**TABLE 1. All Trucks by Type of Operation**

		For hire	Private			Total
			Intercity	Urban	Farm	
<b>Mileage:</b>						
Total mileage travelled.....	'000	63,645	39,451	151,424	79,891	334,411
Average yearly mileage per truck .....		47,900	15,500	7,200	2,700	6,100
Average distance each ton was carried .....		268.3	47.8	11.1	14.7	40.3
Percentage of total mileage travelled empty .....		17.7	33.2	57.0	74.4	50.9
<b>Fuel:</b>						
Total gallons of gasoline consumed .....	'000	7,763	4,199	14,256	6,882	33,100
Miles per gallon of gasoline .....		6.1	9.3	10.6	11.6	9.6
Total gallons of diesel oil consumed .....	'000	2,673	60	33	—	2,766
Miles per gallon of diesel oil .....		6.1	6.9	5.5	—	6.2
Total gallons of other fuel consumed .....	'000	—	—	—	—	—
Miles per gallon of other fuel .....		—	—	—	—	—
<b>Weight of goods carried:</b>						
Total tons of goods carried .....	'000	1,912	1,506	13,026	2,586	19,030
Average weight carried <sup>1</sup> .....	ton	9.8	2.7	2.2	1.9	4.7
<b>Net ton miles:</b>						
Total net ton miles performed .....	'000	512,985	71,922	144,129	37,990	767,026
Average net ton miles per truck .....		386,000	28,200	6,800	1,300	14,000
<b>Capacity ton miles:</b>						
Total capacity ton miles <sup>2</sup> .....	'000	919,737	182,232	440,631	158,485	1,701,085
Average capacity ton miles per truck .....		892,100	71,400	20,900	5,300	31,100
Percentage of capacity utilized .....		55.6	39.5	32.7	24.0	45.1
<b>Gross ton miles:</b>						
Total gross ton miles <sup>3</sup> .....	'000	1,028,574	213,568	556,520	224,013	2,022,675
Average gross ton miles per truck .....		773,900	83,700	26,400	7,500	37,000
<b>Revenue:</b>						
Total revenue .....	\$'000	28,572	—	—	—	—
Revenue per ton mile .....	¢	5.6	—	—	—	—
Revenue per mile (total mileage travelled) .....	¢	44.9	—	—	—	—
Average revenue per truck .....	\$	21,500	—	—	—	—
Average annual population .....		1,329	2,553	21,063	29,783	54,728

**TABLE 2. All Trucks by Gross Vehicle Weight Groups**

	0-2½ tons 0-5,000 lbs.	2½-5 tons 5,001-10,000 lbs.	5-7½ tons 10,001-15,000 lbs.	7½-10 tons 15,001-20,000 lbs.	10-15 tons 20,001-30,000 lbs.	Over 15 tons 30,001 lbs. and over	Total
<b>Mileage:</b>							
Total mileage travelled.....	'000	45,168	150,501	21,102	33,016	22,294	62,330
Average yearly mileage per truck.....		5,800	4,600	3,500	6,200	13,300	42,500
Average distance each ton was carried.....		15.6	13.0	12.2	14.5	17.1	107.8
Percentage of total mileage travelled empty.....		73.3	62.4	37.9	40.9	37.1	21.4
<b>Fuel:</b>							
Total gallons of gasoline consumed.....	'000	3,015	12,285	2,209	4,154	3,121	8,316
Miles per gallon of gasoline.....		15.0	12.3	9.6	7.9	7.1	5.4
Total gallons of diesel oil consumed.....	'000	—	—	—	—	—	2,766
Miles per gallon of diesel oil.....		—	—	—	—	—	6.2
Total gallons of other fuel consumed.....	'000	—	—	—	—	—	—
Miles per gallon of other fuel.....		—	—	—	—	—	—
<b>Weight of goods carried:</b>							
Total tons of goods carried.....	'000	207	2,564	1,992	4,873	4,162	5,232
Average weight carried <sup>1</sup> .....	ton	0.3	0.6	1.8	3.6	5.1	11.5
<b>Net ton miles:</b>							
Total net ton miles performed.....	'000	3,219	33,293	24,257	70,663	71,342	564,252
Average net ton miles per truck.....		400	1,000	4,000	13,300	42,700	384,600
<b>Capacity ton miles:</b>							
Total capacity ton miles <sup>2</sup> .....	'000	35,774	201,578	78,732	186,332	162,154	1,036,515
Average capacity ton miles per truck.....		4,600	6,200	13,100	35,000	97,000	706,600
Percentage of capacity utilized.....		9.0	16.5	30.8	37.9	44.0	54.4
<b>Gross ton miles:</b>							
Total gross ton miles <sup>3</sup> .....	'000	75,545	346,394	97,251	201,921	174,179	1,127,385
Average gross ton miles per truck.....		9,800	10,700	16,100	37,900	104,200	768,500
Average annual population.....		7,745	32,493	6,031	5,321	1,671	1,467

See footnotes page 9.

TABLE 3. Selected Statistics by Gross Vehicle Weight Groups

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 lbs. and under .....	264	6,307	12,483	2.0	47.3	1,754	14.0
20,001-30,000 lbs. ....	244	3,726	15,156	4.1	62.3	1,342	8.9
30,001-50,000 lbs. ....	474	11,695	97,405	8.3	205.2	6,438	6.6
50,001 lbs. and over .....	930	30,630	387,941	12.7	417.3	19,038	4.9
<b>Total</b> .....	<b>1,912</b>	<b>52,368</b>	<b>512,985</b>	<b>9.8</b>	<b>268.3</b>	<b>28,572</b>	<b>5.6</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 lbs. and under .....	230	14,740	8,652		0.6		37.6
10,001-20,000 lbs. ....	395	5,374	13,730		2.6		34.8
20,001-30,000 lbs. ....	384	3,088	14,578		4.7		38.0
30,001 lbs. and over .....	497	3,162	34,962		11.1		70.4
<b>Total</b> .....	<b>1,506</b>	<b>26,364</b>	<b>71,922</b>		<b>2.7</b>		<b>47.8</b>

**SECTION II. TRAFFIC PERFORMED BY MANITOBA REGISTERED TRUCKS WITHIN THE PROVINCE,  
JANUARY 1-DECEMBER 31, 1958**

TABLE 1. All Trucks by Type of Operation

	For hire	Private			Total	
		Intercity	Urban	Farm		
<b>Mileage:</b>						
Total mileage travelled .....	'000	31,180	37,108	151,424	79,891	299,603
Average yearly mileage per truck .....		23,500	14,500	7,200	2,700	5,500
Average distance each ton was carried .....		93.8	42.0	11.1	14.7	22.1
Percentage of total mileage travelled empty .....		20.8	33.6	57.0	74.4	55.0
<b>Fuel:</b>						
Total gallons of gasoline consumed .....	'000	4,492	3,954	14,256	6,882	29,584
Miles per gallon of gasoline .....		6.2	9.4	10.6	11.6	10.0
Total gallons of diesel oil consumed .....	'000	529	22	33	—	584
Miles per gallon of diesel oil .....		6.1	6.3	5.5	—	6.1
Total gallons of other fuel consumed .....	'000	—	—	—	—	—
Miles per gallon of other fuel .....		—	—	—	—	—
<b>Weight of goods carried:</b>						
Total tons of goods carried .....	'000	1,852	1,484	13,026	2,586	18,948
Average weight carried <sup>1</sup> .....	ton	7.0	2.5	2.2	1.9	3.1
<b>Net ton miles:</b>						
Total net ton miles performed .....	'000	173,737	62,328	144,129	37,990	418,184
Average net ton miles per truck .....		130,700	24,400	6,800	1,300	7,600
<b>Capacity ton miles:</b>						
Total capacity ton miles <sup>2</sup> .....	'000	370,366	161,181	440,631	158,485	1,130,663
Average capacity ton miles per truck .....		278,700	63,100	20,900	5,300	20,700
Percentage of capacity utilized .....		46.9	38.7	32.7	24.0	37.0
<b>Gross ton miles:</b>						
Total gross ton miles <sup>3</sup> .....	'000	381,115	190,539	556,520	224,013	1,352,187
Average gross ton miles per truck .....		286,800	74,600	26,400	7,500	24,700
<b>Revenue:</b>						
Total revenue .....	\$'000	12,329	—	—	—	—
Revenue per ton mile .....	¢	7.1	—	—	—	—
Revenue per mile (total mileage travelled) .....	¢	39.5	—	—	—	—
Average revenue per truck .....	\$	9,300	—	—	—	—
Average annual population .....		1,329	2,553	21,063	29,783	54,728

See footnotes page 9.



TABLE 2. All Trucks by Gross Vehicle Weight Groups

	0-2½ tons 0-5,000 lbs.	2½-5 tons 5,001-10,000 lbs.	5-7½ tons 10,001-15,000 lbs.	7½-10 tons 15,001-20,000 lbs.	10-15 tons 20,001-30,000 lbs.	Over 15 tons 30,001 lbs. and over	Total
<b>Mileage:</b>							
Total mileage travelled..... '000	45,168	149,765	20,851	33,016	21,252	29,551	299,603
Average yearly mileage per truck.....	5,800	4,600	3,500	6,200	12,700	20,100	5,500
Average distance each ton was carried.....	15.6	12.9	12.1	14.5	16.4	42.4	22.1
Percentage of total mileage travelled empty.....	73.3	62.6	38.2	40.9	36.9	28.8	55.0
<b>Fuel:</b>							
Total gallons of gasoline consumed..... '000	3,015	12,225	2,189	4,154	2,991	5,010	29,584
Miles per gallon of gasoline.....	15.0	12.3	9.5	7.9	7.1	5.2	10.0
Total gallons of diesel oil consumed..... '000	—	—	—	—	—	584	584
Miles per gallon of diesel oil.....	—	—	—	—	—	6.1	6.1
Total gallons of other fuel consumed..... '000	—	—	—	—	—	—	—
Miles per gallon of other fuel.....	—	—	—	—	—	—	—
<b>Weight of goods carried:</b>							
Total tons of goods carried..... '000	207	2,561	1,986	4,873	4,145	5,176	18,948
Average weight carried <sup>1</sup> ..... ton	0.3	0.6	1.9	3.6	5.1	10.4	3.1
<b>Net ton miles:</b>							
Total net ton miles performed..... '000	3,219	33,032	23,945	70,663	67,990	219,335	410,184
Average net ton miles per truck.....	400	1,000	4,000	13,300	40,700	149,500	7,600
<b>Capacity ton miles:</b>							
Total capacity ton miles <sup>2</sup> ..... '000	35,774	200,768	77,818	186,332	153,895	476,076	1,130,663
Average capacity ton miles per truck.....	4,600	6,200	12,900	35,000	92,100	324,500	20,700
Percentage of capacity utilized.....	9.0	16.5	30.8	37.9	44.2	46.1	37.0
<b>Gross ton miles:</b>							
Total gross ton miles <sup>3</sup> ..... '000	75,545	344,734	96,066	201,921	165,889	468,032	1,352,187
Average gross ton miles per truck.....	9,800	10,600	15,900	37,900	99,300	319,000	24,700
Average annual population.....	7,745	32,493	6,031	5,321	1,671	1,467	54,728

<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 III. INTRAPROVINCIAL TRAFFIC PERFORMED BY MANITOBA REGISTERED TRUCKS,  
JANUARY 1-DECEMBER 31, 1958

TABLE 1. Selected Statistics of Intercity Traffic by Gross Vehicle Weight Groups

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 lbs. and under .....	231	5,498	11,640	2.1	50.5	1,639	14.1
20,001-30,000 lbs. ....	191	2,423	9,817	4.1	51.3	909	9.3
30,001-50,000 lbs. ....	320	4,151	29,536	7.1	92.4	2,477	8.4
50,001 lbs. and over .....	355	3,579	42,802	12.0	120.6	2,886	6.7
<b>Total .....</b>	<b>1,097</b>	<b>15,651</b>	<b>93,795</b>	<b>6.0</b>	<b>85.5</b>	<b>7,911</b>	<b>8.4</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 lbs. and under .....	142	7,509	4,832	0.6	34.2		
10,001-20,000 lbs. ....	214	2,997	9,280	3.1	43.4		
20,001-30,000 lbs. ....	156	1,967	10,119	5.1	64.8		
30,001 lbs. and over .....	193	1,547	16,015	10.3	83.0		
<b>Total .....</b>	<b>705</b>	<b>14,020</b>	<b>40,246</b>	<b>2.9</b>	<b>57.1</b>		

TABLE 2. Selected Statistics of Intercity Traffic by Commodity Groups

Commodity classification	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 .....	18	342	1,116	3.3	61.7	131	11.8
Animals and animal products .....	295	5,262	25,151	4.8	85.3	2,130	8.5
Mine products .....	53	87	1,223	14.0	23.1	81	6.6
Forest products .....	17	204	2,222	10.9	134.6	99	4.5
Manufactures and miscellaneous .....	336	3,719	29,652	8.0	88.2	2,305	7.8
N.O.S. general freight .....	378	6,037	34,431	5.7	91.1	3,165	9.2
<b>Total .....</b>	<b>1,097</b>	<b>15,651</b>	<b>93,795</b>	<b>6.0</b>	<b>85.5</b>	<b>7,911</b>	<b>8.4</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 .....	27	585	1,503	2.6	55.3		
Animals and animal products .....	108	3,669	8,048	2.2	74.8		
Mine products .....	6	25	74	3.0	12.1		
Forest products .....	53	257	1,526	5.9	28.6		
Manufactures and miscellaneous .....	415	6,500	25,327	3.0	61.1		
N.O.S. general freight .....	96	984	3,768	3.6	39.4		
<b>Total .....</b>	<b>705</b>	<b>14,020</b>	<b>40,246</b>	<b>2.9</b>	<b>57.1</b>		

## SECTION IV. INTERPROVINCIAL AND INTERNATIONAL TRAFFIC PERFORMED BY MANITOBA REGISTERED TRUCKS, JANUARY 1-DECEMBER 31, 1958

TABLE 1. Tons of Goods Carried by Province of Origin and Destination

Origin or 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 .....	4	3	7						
Ontario .....	120	134	254	1	1	1	1	1	1
Saskatchewan .....	100	136	236						
Alberta .....	23	18	41						
British Columbia .....	—	—	—						
Yukon and Northwest Territories .....	—	—	—						
United States .....	21	12	33						
<b>Total .....</b>	<b>268</b>	<b>303</b>	<b>571</b>						

<sup>1</sup> Reliable estimates not available.

TABLE 2. Selected Statistics by Commodity Groups

Commodity classification	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.....	13	1,096	15,380	14.0	1,199.8	370	2.4
Animals and animal products .....	85	4,926	61,425	12.5	719.1	2,472	4.0
Mine products .....	—	—	—	—	—	—	—
Forest products.....	2	44	395	9.0	240.0	23	5.8
Manufactures and miscellaneous .....	224	13,409	168,728	12.6	754.8	7,725	4.6
N.O.S. general freight .....	247	12,351	132,942	10.8	537.5	7,615	5.7
<b>Total.....</b>	<b>571</b>	<b>31,826</b>	<b>378,870</b>	<b>11.9</b>	<b>663.8</b>	<b>18,205</b>	<b>4.8</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.....	1	1	1	1	1		
Animals and animal products .....							
Mine products .....							
Forest products.....							
Manufactures and miscellaneous .....							
N.O.S. general freight .....							
<b>Total.....</b>							

<sup>1</sup> Reliable statistics not available.

## SECTION V. TRAFFIC PERFORMED BY MANITOBA REGISTERED BUSES INSIDE AND OUTSIDE THE PROVINCE, JANUARY 1 - DECEMBER 31, 1958

TABLE 1. By Passenger Seating Capacity

	0-19	20-29	30-39	40 and over	Total
<b>Mileage:</b>					
Total mileage travelled..... '000	52	522	7,162	4,756	12,492
Average yearly mileage per bus.....	17,400	26,100	61,200	121,900	69,800
Average journey (average distance per passenger)	15.6	34.7	91.1	112.3	96.1
<b>Fuel:</b>					
Total gallons of gasoline consumed ..... '000	5	69	497	458	1,029
Miles per gallon of gasoline.....	10.6	7.6	7.4	6.0	6.8
Total gallons of diesel oil consumed ..... '000	—	—	407	235	642
Miles per gallon of diesel oil.....	—	—	8.6	8.5	8.5
Total gallons of other fuel consumed ..... '000	—	—	—	—	—
Miles per gallon of other fuel.....	—	—	—	—	—
<b>Passengers and passenger miles:</b>					
Total number of passengers carried ..... '000	21	78	1,213	773	2,085
Total number of passenger miles..... '000	320	2,703	110,576	66,767	200,366
Average number of passengers carried per mile ....	6.1	5.2	15.4	18.2	16.0
<b>Capacity:</b>					
Total capacity seat miles..... '000	717	14,012	262,902	226,233	503,864
Percentage of capacity utilized.....	44.6	19.3	42.1	38.4	39.8
<b>Revenue:</b>					
Total passenger revenue..... \$'000	10	75	2,941	2,046	5,072
Revenue per mile (total mileage travelled) ..... ¢	19.1	14.3	41.1	43.0	40.6
Revenue per passenger mile..... ¢	3.1	2.8	2.7	2.4	2.5
Revenue per bus..... \$	3,300	3,700	25,100	52,500	28,300



**SECTION VI. TRAFFIC PERFORMED BY MANITOBA REGISTERED BUSES WITHIN THE PROVINCE,  
JANUARY 1 - DECEMBER 31, 1958**

Table 1. By Passenger Seating Capacity

	0-19	20-29	30-39	40 and over	Total
<b>Mileage:</b>					
Total mileage travelled ..... '000	52	522	3,633	1,917	6,124
Average yearly mileage per bus .....	17,400	26,100	31,100	49,100	34,200
Average journey (average distance per passenger) ..	15.6	34.7	65.4	67.6	63.6
<b>Fuel:</b>					
Total gallons of gasoline consumed ..... '000	5	69	427	233	734
Miles per gallon of gasoline .....	10.6	7.6	7.1	7.0	7.1
Total gallons of diesel oil consumed ..... '000	—	—	78	31	109
Miles per gallon of diesel oil .....	—	—	7.8	8.9	8.1
Total gallons of other fuel consumed ..... '000	—	—	—	—	—
Miles per gallon of other fuel .....	—	—	—	—	—
<b>Passengers and passenger miles:</b>					
Total number of passengers carried ..... '000	21	78	726	472	1,297
Total number of passenger miles ..... '000	320	2,703	47,471	31,917	82,411
Average number of passengers carried per mile .....	6.1	5.2	13.1	16.7	13.5
<b>Capacity:</b>					
Total capacity seat miles ..... '000	717	14,012	131,601	100,761	247,091
Percentage of capacity utilized .....	44.6	19.3	36.1	31.7	33.4
<b>Revenue:</b>					
Total passenger revenue ..... \$'000	10	75	1,307	725	2,117
Revenue per mile (total mileage travelled)..... ¢	19.1	14.3	36.0	37.9	34.6
Revenue per passenger mile ..... ¢	3.1	2.8	2.8	2.3	2.6
Revenue per bus ..... \$	3,300	3,700	11,200	18,600	11,800

## APPENDIX 1

Type of Operation	A. Population						
	0 - 2½ tons 0 - 5,000 lbs.	2½ - 5 tons 5,001 - 10,000 lbs.	5 - 7½ tons 10,001 - 15,000 lbs.	7½ - 10 tons 15,001 - 20,000 lbs.	10 - 15 tons 20,001 - 30,000 lbs.	Over 15 tons 30,001 lbs. and over	Total
	Estimated average Manitoba truck population January 1 - December 31, 1958						
For hire .....	—	97	49	211	157	815	1,329
Private:							
Intercity .....	—	1,596	227	322	247	181	2,553
Urban .....	4,809	10,744	1,685	2,370	986	469	21,063
Farm .....	2,936	20,056	4,070	2,418	281	22	29,783
Total .....	7,745	32,493	8,031	5,321	1,671	1,467	54,728
	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 .....	393	256		73		64	
Private:							
Intercity .....	427	264		91		72	
Urban .....	2,851	1,331		737		783	
Farm .....	2,452	829		1,037		586	
Total .....	6,123	2,680		1,938		1,505	

## APPENDIX 2. Reliability of Motor Transport Traffic Statistics

	Number of trucks reporting (1)	Survey estimates (2)	Sampling variability (Two standard deviations) (3)      (4)		Range (Col. 2 plus and minus col. 3) (5)      (6)	
			Size (3)	Per cent of col. 2 (4)	Lower limit (5)	Upper limit (6)
		'000	'000		'000	'000
<b>A. Traffic performed within the province<sup>1</sup></b>						
Total mileage travelled						
		miles	miles		miles	miles
For hire.....	247	31,180	2,681	8.6	28,499	33,861
Private:						
Intercity.....	260	37,108	3,785	10.2	33,323	40,893
Urban.....	1,331	151,424	7,874	5.2	143,550	159,298
Farm.....	829	79,891	6,711	8.4	73,180	86,602
<b>Total</b> .....	<b>2,667</b>	<b>299,603</b>	<b>11,984</b>	<b>4.0</b>	<b>287,619</b>	<b>311,587</b>
Weight of goods carried						
		tons	tons		tons	tons
For hire.....	243	1,852	226	12.2	1,626	2,078
Private:						
Intercity.....	236	1,484	246	16.6	1,238	1,730
Urban.....	889	13,026	1,537	11.8	11,489	14,563
Farm.....	513	2,586	528	20.4	2,058	3,114
<b>Total</b> .....	<b>1,881</b>	<b>18,948</b>	<b>1,705</b>	<b>9.0</b>	<b>17,243</b>	<b>20,653</b>
Net ton miles						
		net ton miles	net ton miles		net ton miles	net ton miles
For hire.....	243	173,737	19,111	11.0	154,626	192,848
Private:						
Intercity.....	236	62,328	9,972	16.0	52,356	72,300
Urban.....	880	144,129	15,566	10.8	128,563	159,695
Farm.....	447	37,990	7,446	19.6	30,544	45,436
<b>Total</b> .....	<b>1,806</b>	<b>418,184</b>	<b>28,437</b>	<b>6.8</b>	<b>389,747</b>	<b>446,821</b>
Revenue earned						
		\$	\$		\$	\$
For hire.....	243	12,329	1,307	10.6	11,022	13,636
<b>B. Interprovincial and international traffic</b>						
Weight of goods carried						
		tons	tons		tons	tons
For hire.....	94	571	72	12.6	499	643
Net ton miles						
		net ton miles	net ton miles		net ton miles	net ton miles
For hire.....	94	378,870	37,129	9.8	341,741	415,999

<sup>1</sup> Estimates for traffic "inside and outside the province" are considered to be more reliable while the estimates for "intraprovincial" traffic should be equally reliable.

**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, 31,180,000 miles, will not be more than 2,681,000 miles (plus or minus 8.6 per cent of 31,180,000) 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 28,499,000 to 33,861,000.







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