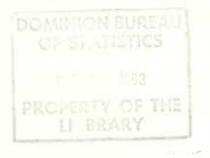
53-211
ANNUAL



# MOTOR TRANSPORT TRAFFIC PROVINCE OF MANITOBA

1962



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## PROVINCE OF MANITOBA JANUARY I – DECEMBER 31, 1962

CHART-I

#### TRUCK REGISTRATIONS BY TYPE OF OPERATION

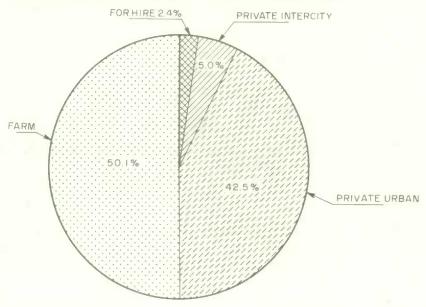
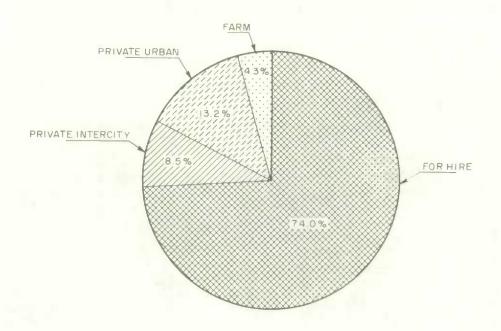


CHART-2

#### NET TON MILES BY TYPE OF OPERATION



#### INTRODUCTION

The 1962 annual report of motor transport traffic in the Province of Manitoba is based upon a sample of approximately 8 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 1961.

#### **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.
- The constant population has to be broken down into gross vehicle weight groups and functions.
   This is already partially done as sample selec-

tions 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 question-

naires 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.
- 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 6.0 per cent to 67,300 from 63,500 in 1961. Of these 1,600 or 2.4 per cent were for hire trucks; 3,400 or 5.0 per cent were private intercity vehicles; 28,600 or 42.5 per cent were private vehicles operating wholly within urban areas; and 33,700 or 50.1 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 2.4 per cent of Manitoba's truck population, for hire vehicles accounted for 74.0 per cent of the total net ton miles and 11.3 per cent of the total tons of goods carried during 1962. This results from the high average yearly mileage of these trucks, 58,000 miles as compared to 5,900 miles for all trucks, and from the heavy average load carried of 13.3 tons compared to 6.2 tons for all trucks. Since 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 9.3 for all trucks.

It is estimated that urban operations accounted for 0.4 per cent of the total net ton miles performed by Manitoba registered for hire trucks and 15.0 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 about 11 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 69.0 per cent and private intercity 30.7 per cent of their total net ton miles outside 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 approximately three quarters of the total net ton miles performed and over one half 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 one half was moved to or from Saskatchewan.

#### Appendix

During the year survey questionnaires were sent to the owners or operators of 5,682 trucks. Of this number 2,212 were returned completed and 1,673

trucks were reported not used during the survey week. The remaining 1,797 were either returned incomplete and unusable or not returned at all.

## SECTION I, TRAFFIC PERFORMED BY MANITOBA REGISTERED TRUCKS INSIDE AND OUTSIDE THE PROVINCE JANUARY 1 - DECEMBER 31, 1962

TABLE 1. All Trucks by Type of Operation

			Private		m-tol
	For hire	Intercity	Urban	Farm	Total
Mileage:					
Total mileage travelled '00 Average yearly mileage per truck Average distance each ton was carried Percentage of total mileage travelled empty	92,813 58,000 348.4 19,2	40,820 12,000 59.0 37.4	184, 385 6, 400 10. 1 55. 8	79, 694 2, 400 19, 2 54, 0	397,712 5,900 53.0 45.0
Fuel:					
Total gallons of gasoline consumed '00 Miles per gallon of gasoline Total gallons of diesel oil consumed '00 Miles per gallon of diesel oil Total gallons of other fuel consumed Miles per gallon of other fuel	5.4	4.794 7.9 461 5.9	18, 156 10, 1 200 7, 2	6,626 12.0 — — —	36, 299 9. 3 9. 632 6. 3
Weight of goods carried:					
Total tons of goods carried '00 Average weight carried to		1,938 4.5	17,689 2.2	3,038 1.6	25,540 6.2
Net ton miles:					
Total net ton miles performed	1,001,698 626,100	114, 257 33, 600	178, 893 6, 300	58, 297 1, 790	1,353,145 20,100
Capacity ton miles:					
Total capacity ton miles?	0 1,503,513 939,700 66.6	256, 355 75, 400 44.6	580,017 20,300 30.8	167,135 5,090 34,9	2,507,020 37,300 54.0
Gross ton miles:					
Total gross ton miles	2, 176, 434 1, 360, 300	316, 831 93, 200	730,507 25,500	251, 415 7, 500	3,475,187 51,600
Revenue:					
Total revenue \$10 Revenue per ton mile \$20 Revenue per mile (total mileage travelled) \$20 Average revenue per truck \$30	4. 2	= =	elong elones unline elong		-
annual population	1,600	3,400	28, 600	33,700	67,300

TABLE 2. All Trucks by Gross Vehicle Weight Group

	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 1b.	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	38,669 5,200 19.6 58.8	173, 204 4, 200 20, 2 60, 1	19,804 3,300 17.8 33.5	32,511 4,900 t4.6 30.3	25, 729 9, 300 16, 0 34, 4	107, 795 39, 800 92. 8 24. 9	397,712 5,900 53.0 45.0
Fuel:							
Total gallons of gasoline consumed'000 Miles per gallon of gasoline Total gallons of diesel oil consumed'000 Miles per gallon of diesel oil	2,609 14.8	13, 975 12. 4	2, 161	4, 180 7.8	3,660 7.0	9, 694 4, 8 9, 632 6, 3	36, 299 9, 3 9, 632 6, 3
Total galions of other fuel consumed Miles per galion of other fuel	_	=	ativity string	-	_		
Weight of goods carried:							
Total tons of goods carried	157 0.2	2,534 0.7	1,345 1.8	5, 104 3, 3	4, 188 4. 0	12, 212 14.0	25,540 6.2
Net ton miles:							
Total net ton miles performed'000 Average net ton miles per truck	3,065 400	51,063 1,200	23,994 4,000	74,508 11,200	66, 938 24, 100	1, 133, 577 418, 100	1,353,145 20,100
Capacity ton miles:							
Total capacity ton miles?	32,602 4,400 9,4	227, 630 5, 500 22, 4	87, 790 11, 300 35, 4	172,607 26,000 43,2	188,802 67,900 35.5	1,817,589 670,500 62.4	2,507,020 37,300 54.0
Gross ton miles:							
Average gross ton miles per truck	52,663 7,000	410, 188 9, 800	92,507 15,500	206, 326 31, 100	197, 787 71, 100	2, 515, 716 928, 000	3,475,187 51,600
Estimated annual population	7,477	41,701	5, 986	6,645	2,780	2,711	67,300

TABLE 3. Selected Statistics by Gross Vehicle Weight Group

				For hire			
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
	'000 tons	1000	'000	tons	miles	\$'000	¢
20,000 lb. and under	167	2, 816	7, 575	2.7	45, 5	1, 684	22, 2
20,001 - 30,000 lb.	212	4,685	16,571	3.5	78. 2	1,842	11.
30,001-50,000 lb	337	10, 449	75, 385	7.2	223, 3	5, 649	7. 5
50,001 lb. and over	2, 159	57, 084	902, 167	15.8	417.8	32, 876	3, 6
Totals	2,875	75, 034	1,001,698	13, 3	348, 4	42,051	4.2
			P	rivate intercity			
	Weight of goods carried	trav	miles elled load	Total net ton miles	Averag weigh carrie	t c	Average distance per ton
	'000 tons	'(	000	'000	tons		miles
0,000 lb. and under		78	9, 393	3,746		0.4	47.8
0,001-20,000 lb.		253	5, 483	13, 231		2.4	52.4
20,001-30,000 lb.		572	4, 938	21, 211		4, 3	37,
0,001 lb. and over	1,	035	5, 720	76,069		13.3	73. 5
Totals	1,	938	25, 534	114, 257		4, 5	59.0

TABLE 4. Selected Statistics by Commodity Group

				r or nire			
Commodity group	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	1000	tons	miles	\$'000	¢
Live animals	247	5, 083	46, 966	9. 2	189.9	2, 349	5.0
Food, feed, beverages and tobacco	335	12, 171	153, 677	12,6	458.3	5, 141	3.3
Crude materials, inedible	79	1,472	25, 640	17, 4	324.8	657	2, 6
Fabricated materials, inedible	865	9, 379	175, 897	18,8	203.4	6,829	3.9
End products, inedible	183	10,112	89, 107	8.8	487.5	5,787	6.5
General freight	1,166	36, 817	510,411	13.9	437.6	21, 288	4. 2
Totals	2, 875	75,034	1,001,698	13, 3	348.4	42,051	4. 2
			P	rivate intercity			
	Weight of goods carried	tra	al miles velled th load	Total net ton miles	Avera g weigh carrie	t	Average distance per ton
_	'000 tons	S	'000	'000	tons		miles
Live animals		8	269	1,977		7.3	249.7
Food, feed, beverages and tobacco		444	10, 215	44,016		4.3	99.2
Crude materials, inedible		211	734	5, 879		8.0	27.8
Fabricated materials, inedible		992	5, 393	45, 161		8. 4	45. 4
End products, inedible		146	7, 824	11,629		1.5	79.
Feneral freight		137	1,099	5, 595		5, 1	40, 9
Totals	1,	938	25, 534	114, 257		4, 5	59, 0

#### SECTION II. TRAFFIC PERFORMED BY MANITOBA REGISTERED TRUCKS WITHIN THE PROVINCE JANUARY 1-DECEMBER 31, 1962

#### TABLE 5. All Trucks by Type of Operation

	For hire		Private		00 - 4 - 3
	r'or nire	Intercity	Urban	Farm	Total
Mileage:					
Total mileage travelled '000 Average yearly mileage per truck Average distance each ton was carried Percentage of total mileage travelled empty	37, 634 23, 500 119, 7 22, 7	35,824 10,500 42.0 37.4	184,385 6,400 10.1 55.8	79,694 2,400 19,2 54.0	337,537 5,000 24.9 49.7
Fuel:					
Total gallons of gasoline consumed '000 Miles per gallon of gasoline '000 Total gallons of diesel oll consumed '000 Miles per gallon of diesel oll '000 Total gallons of other fuel consumed Miles per gallon of other fuel	4,032 5.6 2,403 6.3	4, 254 8, 1 191 6, 9	18, 156 10, 1 200 7, 2	6, 626 12, 0	33,068 9.7 2,794 6.4
Weight of goods carried:					
Total tons of goods carried	2,595 10.7	1,884 3.5	17,689	3,038 1.6	25, 206 3.7
Net ton miles:					
Total net ton miles performed	310,621 194,100	79, 235 23, 300	178, 893 6, 300	58, 297 1, 700	627, 046 9, 300
Capacity ton miles:					
Total capacity ton miles 2	543, 945 340, 000 57. 1	197, 889 58, 200 40. 0	580, 017 20, 300 30. 8	167, 135 5, 000 34.9	1,488,986 22,100 42.1
Gross ton miles:					
Total gross ton miles a	710, 835 444, 300	237, 042 69, 700	730,507 25,500	251,415 7,500	1,929,799 28,700
Revenue:					
Total revenue \$'000 Revenue per ton mile \$ Revenue per mile (total mileage travelled) \$ Average revenue per truck \$	19,872 6.4 52.8 12,400	=	=	entition of the second of the	
Estimated annual population	1,600	3,400	28,600	33,700	67, 300

TABLE 6. All Trucks by Gross Vehicle Weight Group

	0-2½ tons 0-5,000 1b.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 1b.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb, and over	Total
Mileage:							
Total mileage travelled	38,669 5,200 19.6 58.8	172,892 4,100 20,2 60,0	18,711 3,100 17.1 32.5	32,449 4,900 14.6 30.3	24, 904 9, 000 15, 3 34, 8	49, 912 18, 400 34.6 33.7	337,537 5,000 24.9 49.7
Fuel:							
Total gallons of gasoline consumed	2,609 14.8 —	13, 952	2,063	4,173	3,561	6,710 4.8 2,794 6.4	33,066 9.7 2,794 6.4
Weight of goods carried:							
Total tons of goods carried	157 0. 2	2,533 0.7	1,345 1.8	5, 103 3. 3	4, 180 3. 9	11,888 12,4	25,206 3.7
Net ton miles:							
Total net ton miles performed	3,065 400	51,063 1,200	23, 051 3, 900	74,441 11,200	64, 082 23, 100	411,344 151,700	827, 046 9, 300
Capacity ton miles:							
Total capacity ton miles ''000  Average capacity ton miles per truck  Percentage of capacity utilized	32,602 4,400 9.4	227, 139 5, 400 22, 5	64,604 10,800 35.7	172, 273 25, 900 43, 2	182,528 65,700 35.1	809,840 298,700 50.8	1,488,986 22,100 42.1
Gross ton miles:							
Total gross ton miles'000 Average gross ton miles per truck	52,663 7,000	409,427 9,800	87,923 14,700	206,009 31,000	190,961 68,700	982, 616 362, 500	1,929,799 28,700
stimated annual population	7,477	41,701	5, 986	6,645	2,780	2,711	67,300

travelled.

Net ton miles divided by miles travelled with load.

Capacity ton miles are determined by multiplying the actual number of miles travelled by the estimated capacity or the weight of the heaviest load married, whichever is larger.

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

## SECTION III. INTERPROVINCIAL AND INTERNATIONAL TRAFFIC PERFORMED BY MANITOBA REGISTERED TRUCKS JANUARY 1-DECEMBER 31, 1962

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

	For hire			Pri	vate intercit	y <sup>1</sup>	Total <sup>1</sup>		
Origin and destination	Into Manitoba	Out of Manitoba	Totai	Into Manitoba	Out of Manitoba	Total	Into Manitoba	Out of Manitoba	Total
					'000 tons				
ewfoundland	_	-							
rince Edward Island	-	-	_						
ova Scotia	-	-	-						
ew Brunswick	_	-	_					j	
uebec	37	32	69						
ntario	143	247	390						
skatchewan	280	187	467						
berta	67	89	156		- 10				
ritish Columbia	2	2	4						
ukon and Northwest Territories	_	_	-						
nited States	9	1	10						
Totals	538	558	1, 096						

TABLE 8. Selected Statistics by Commodity Group

				For hire					
Commodity group	Weight of goods carried	Total miles traveiled 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	70	1, 887	25, 504	13.5	363.5	795	3. 1		
Food, feed, beverages and tobacco	130	8,741	131,555	15.0	1,014.4	3,362	2.6		
Crude materials, inedible	21	1, 030	19,077	18.5	888.9	3 26	1.7		
Fabricated materials, inedible	259	5,927	113,727	19. 2	438.6	3,479	3. 1		
End products, inedible	63	5, 978	64,052	10.7	1,023.7	3,007	4.7		
General freight	553	25, 226	392, 638	15.6	709. 7	13,894	3. 5		
Totals	1,096 48,789		746, 553	15. 3	680. 9	24, 863	3. 3		
	Private intercity <sup>1</sup>								
	Weight of goods carried	Total trave with	elled	Total net ton miles	Average weight carried	dis	verage stance er ton		
	'000 tons	'00	00	'000	tons	1	miles		
Live animals									
Food, feed, beverages and tobacco									
Crude materials, inedible									
Pabricated materials, inedible		,							
End products, inedible									
General freight									
Totals									

<sup>&</sup>lt;sup>1</sup> Reliable statistics not available.

#### APPENDIX

				A. Popt	ulation			
Type of operation	0-2½ tons 0-5,000 1b. 2½-5 tons 5,001-10,00			10,001-15,000   15,001-		10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total
			Estimated Ma	nitoba tru	ick popu	lation in 1962		
Por hire	_		- 50		241	191	1, 118	1,600
Private:								
Intercity	_	2, 07	9 240		353	439	289	3, 400
Urban	5, 401	16, 32	1, 449		2,806	1,429	1, 193	28,600
Farm	2, 076	23, 30	90 4, 247		3, 245	721	111	33, 70
Totals	7, 477	41, 70	5, 986		6, 645	2,780	2,711	67, 30
			I	3. Survey	Respons	se		
	Total num trucks sel in samp	ected	Number of questionnaire returned comple		trucks	ber of sampled s reported not in ring survey week	not returned	uestionnaires l or returned and unusable
For hire		843		474		1.5	52	21
rivate:								
Intercity		609		343		13	27	13
Urban		2,861		1,082		78	17	99
Fam		1, 369		313		60	7	44
Totals		5, 682		2, 212		1, 67	3	1, 79

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