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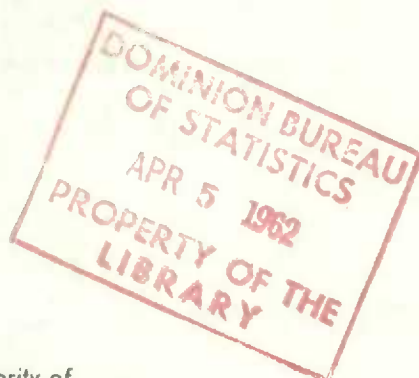
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MOTOR TRANSPORT TRAFFIC
PROVINCE OF SASKATCHEWAN
1960



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PROVINCE OF SASKATCHEWAN

JANUARY 1 - DECEMBER 31, 1960

CHART-1

TRUCK REGISTRATIONS BY TYPE OF OPERATION

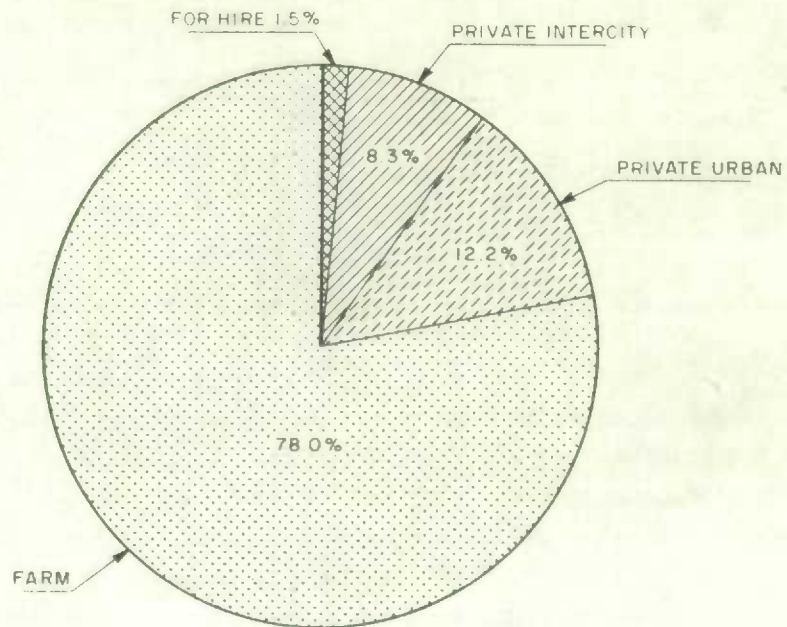
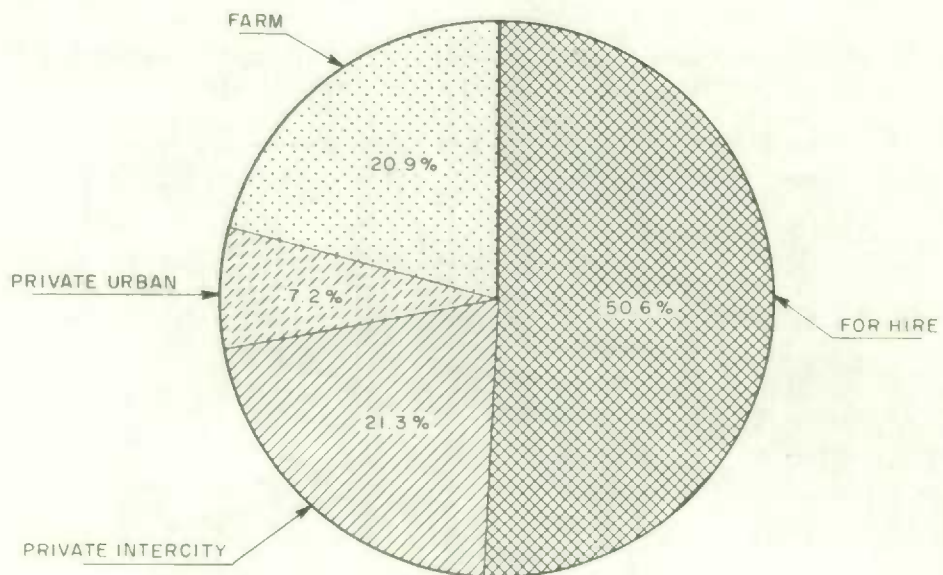


CHART-2

NET TON MILES BY TYPE OF OPERATION



INTRODUCTION

The 1960 annual report of motor transport traffic in the Province of Saskatchewan is based upon a sample of approximately 8 per cent of trucks registered in the province. (The decrease from 12 per cent in 1959 to 8 per cent in 1960 is due to a change in the sample selection ratios whereby fewer trucks of a low gross vehicle weight were selected while the selection ratios for heavier trucks were increased. This change had a particularly severe effect on the number of farm vehicles included in the sample.) 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.

Prior to 1959 a sample survey of intercity buses was conducted in conjunction with the truck traffic survey. However, it was not possible to survey buses in all provinces and, as some traffic data are also collected for the annual publication "Passenger Bus Statistics", catalogue no. 53-215, it was decided to discontinue the sample survey of buses for the present.

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 Saskatchewan trucks operated provincially for compensation are classed as "Public Service Vehicles". Public service vehicles used for transporting general merchandise over a given route or for certified chartered operations are issued with an "A" licence, while those restricted to transporting specified commodities provincially are provided with an "E" licence. Vehicles owned and operated by farmers and used for their own farm operations are classified as farm vehicles and issued with an "F" licence. All other trucks are classified as commercial vehicles and are issued with a "C" licence if used within a radius of 35 miles of the owner's headquarters or a "D" licence if operated provincially.

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

- | | |
|-------------------|--|
| For hire | — "A" and "E" licensed vehicles. |
| Private intercity | — "C" and "D" licensed vehicles operating outside urban areas. |
| Private urban | — "C" and "D" licensed vehicles operating only within urban areas. |
| Farm | — "F" licensed vehicles. |

It is known that some "C" and "D" licensed trucks are operated for compensation but these vehicles were not included in the for hire category. As a result, the for hire data are understated by the extent of these operations.

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, 1958 and 1959.

Expansion of Survey Results

Prior to 1959 the distribution of sample vehicles by gross vehicle weight group 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 year. The expanded data for each of the four quarterly segments were added together to obtain annual provincial estimates.

Using this method it was found that in some provinces the truck population varied greatly from quarter to quarter. In many cases these changes were not due to an increase or decrease in the

actual truck population but were merely the result of the sample being chosen from an incomplete set of registration files.

To improve the accuracy of the provincial estimates the sample results, since 1959, have been blown up to represent the characteristics of a constant average population throughout the year rather than the population as at four different periods during the year. For this purpose the peak quarterly registration population of the preceding year is deemed to be the average population for the current year. The breakdown of the average population into classes and gross vehicle weight groups is based upon the distribution reported in the whole of the previous year.

Review of Survey Results

The estimated population of trucks performing transportation services in Saskatchewan during the year rose 0.5 per cent to 104,400 from 103,860 in 1959. Of these 1,600 or 1.5 per cent were for hire trucks; 8,618 or 8.3 per cent were private intercity vehicles; 12,782 or 12.2 per cent were private vehicles operating wholly within urban areas; and 81,400 or 78.0 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 Saskatchewan registered trucks.

A new table has been added to this section which summarizes for the year the quarterly commodity tables included in the quarterly report "Motor Transport Traffic, National Estimates", catalogue no. 53-004.

Although comprising only 1.5 per cent of Saskatchewan's truck population, for hire vehicles accounted for 50.6 per cent of the total net ton miles and 7.2 per cent of the total tons of goods carried during 1960. This results from the high average yearly mileage of these trucks, 37,700 miles as compared with 4,300 miles for all trucks, and from the heavy average load carried of 9.8 tons compared to 4.1 tons for all trucks. Since over four

fifths of all 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, 5.6 compared with 10.1 for all trucks.

It is estimated that urban operations accounted for 0.4 per cent of the total net ton miles performed by Saskatchewan registered for hire trucks and 1.7 per cent of the total net ton miles performed by private intercity vehicles.

Some trucks in Saskatchewan under 10,000 lb. gross vehicle weight are used essentially for personal transportation. Such vehicles accounted for about 14 per cent of the total mileage travelled by Saskatchewan registered trucks.

Section II: Traffic Within the Province

This section presents estimates of traffic performed by Saskatchewan 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 31.8 per cent and private intercity 14.6 per cent of their total net ton miles outside Saskatchewan.

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 almost one third of the revenue earned by these vehicles. Three fifths of the total tons of goods carried in this type of traffic by Saskatchewan registered for hire trucks was transported to or from Manitoba.

Appendix

During the year survey questionnaires were sent to the owners or operators of 7,769 trucks. Of this number 2,521 were returned completed and 2,781 trucks were reported not used during the

survey week. The remaining 2,467 were either returned incomplete and unusable or not returned at all.

February 12, 1962.

**SECTION 1. TRAFFIC PERFORMED BY SASKATCHEWAN REGISTERED TRUCKS INSIDE AND OUTSIDE THE PROVINCE
JANUARY 1 - DECEMBER 31, 1960**

TABLE 1. All Trucks by Type of Operation

	For hire	Private			Total
		Intercity	Urban	Farm	
Mileage:					
Total mileage travelled	'000 60,303	95,234	62,477	227,693	445,707
Average yearly mileage per truck	37,700	11,100	4,900	2,800	4,300
Average distance each ton was carried	174.4	25.9	7.3	10.8	24.7
Percentage of total mileage travelled empty	33.1	56.5	51.7	65.0	57.0
Fuel:					
Total gallons of gasoline consumed	'000 8,119	9,298	5,786	19,168	42,371
Miles per gallon of gasoline	5.6	10.0	10.8	11.9	10.1
Total gallons of diesel oil consumed	'000 2,405	443	—	—	2,848
Miles per gallon of diesel oil	6.1	6.1	—	—	6.1
Total gallons of other fuel consumed	'000 —	—	—	—	—
Miles per gallon of other fuel	—	—	—	—	—
Weight of goods carried:					
Total tons of goods carried	'000 2,269	6,455	7,718	15,214	31,656
Average weight carried ¹	ton 9.8	4.0	1.9	2.1	4.1
Net ton miles:					
Total net ton miles performed	'000 395,805	166,950	56,487	163,635	782,877
Average net ton miles per truck	247,400	19,400	4,400	2,000	7,500
Capacity ton miles:					
Total capacity ton miles ²	'000 759,113	427,875	163,466	574,310	1,924,764
Average capacity ton miles per truck	474,400	49,600	12,800	7,100	18,400
Percentage of capacity utilized	52.1	39.0	34.6	28.5	40.7
Gross ton miles:					
Total gross ton miles ³	'000 975,331	519,832	218,608	802,434	2,516,205
Average gross ton miles per truck	609,600	60,300	17,100	9,900	24,100
Revenue:					
Total revenue	\$'000 21,326	—	—	—	—
Revenue per ton mile	¢ 5.4	—	—	—	—
Revenue per mile (total mileage travelled)	¢ 35.4	—	—	—	—
Average revenue per truck	\$ 13,300	—	—	—	—
Estimated annual population	1,600	8,618	12,782	81,400	104,400

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	126,115	144,240	32,870	26,741	49,146	66,595	445,707
Average yearly mileage per truck	4,800	3,500	2,700	1,900	5,400	29,900	4,300
Average distance each ton was carried	9.7	11.0	9.9	11.3	16.0	65.5	24.7
Percentage of total mileage travelled empty	70.2	64.2	51.0	43.4	42.5	35.6	57.0
Fuel:							
Total gallons of gasoline consumed '000	8,364	11,664	3,180	3,189	6,535	9,419	42,371
Miles per gallon of gasoline	15.0	12.4	10.3	8.4	7.5	5.2	10.1
Total gallons of diesel oil consumed '000	—	—	—	—	—	2,848	2,848
Miles per gallon of diesel oil	—	—	—	—	—	6.1	6.1
Total gallons of other fuel consumed '000	—	—	—	—	—	—	—
Miles per gallon of other fuel	—	—	—	—	—	—	—
Weight of goods carried:							
Total tons of goods carried '000	1,540	5,261	3,550	5,179	8,891	7,235	31,656
Average weight carried ¹ ton	0.4	1.1	2.2	3.9	5.0	11.1	4.1
Net ton miles:							
Total net ton miles performed '000	14,912	57,984	35,119	58,477	142,263	474,122	782,877
Average net ton miles per truck	600	1,400	2,900	4,200	15,700	213,100	7,500
Capacity ton miles:							
Total capacity ton miles ² '000	110,801	276,183	102,580	148,846	369,271	916,083	1,924,764
Average capacity ton miles per truck	4,200	6,800	8,600	10,800	40,600	411,700	18,400
Percentage of capacity utilized	13.4	21.0	34.2	39.0	38.5	51.8	40.7
Gross ton miles:							
Total gross ton miles ³ '000	222,079	444,202	146,208	168,065	378,357	1,157,294	2,516,205
Average gross ton miles per truck	8,400	10,900	12,200	12,100	41,600	520,100	24,100
Estimated annual population	26,430	40,801	11,997	13,861	9,086	2,225	104,400

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	¢
30,000 lb. and under	414	7,090	28,427	4.0	68.6	4,090	14.4
30,001-50,000 lb.	921	16,661	154,060	9.1	167.1	9,601	6.2
50,001 lb. and over	934	16,373	213,318	13.0	228.6	7,635	3.6
Totals	2,269	40,324	395,805	9.8	174.4	21,326	5.4
	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	283	17,756	14,144	0.8	50.0		
10,001-20,000 lb.	1,128	5,381	16,586	3.1	14.7		
20,001-30,000 lb.	2,371	10,622	52,975	5.0	22.3		
30,001 lb. and over	2,673	7,694	83,245	10.8	31.1		
Totals	6,455	41,453	166,950	4.0	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	¢
Agricultural products	113	338	2,888	8.5	25.5	164	5.7
Animals and animal products	142	3,929	31,870	8.1	223.9	1,586	5.0
Mine products	21	356	3,670	10.3	174.0	160	4.4
Forest products ¹	—	—	—	—	—	—	—
Manufactures and miscellaneous	1,480	25,937	278,303	10.7	188.0	14,394	5.2
N.O.S. general freight	513	9,764	79,074	8.1	154.3	5,022	6.4
Totals	2,269	40,324	395,805	9.8	174.4	21,326	5.4
	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		
Agricultural products	122	464	2,630	5.7	21.6		
Animals and animal products	95	2,387	17,026	7.1	180.0		
Mine products	3,971	3,877	41,877	10.8	10.5		
Forest products	95	993	7,275	7.3	76.7		
Manufactures and miscellaneous	2,030	28,990	90,359	3.1	44.5		
N.O.S. general freight	142	4,742	7,783	1.6	53.0		
Totals	6,455	41,453	166,950	4.0	25.9		

¹ Reliable statistics not available.

**SECTION II. TRAFFIC PERFORMED BY SASKATCHEWAN REGISTERED TRUCKS WITHIN THE PROVINCE
JANUARY 1 - DECEMBER 31, 1960**

TABLE 5. All Trucks by Type of Operation

		For hire	Private			Total
			Intercity	Urban	Farm	
Mileage:						
Total mileage travelled	'000	43,649	89,683	62,477	227,693	423,502
Average yearly mileage per truck		27,300	10,400	4,900	2,800	4,100
Average distance each ton was carried		125.9	22.4	7.3	10.8	20.1
Percentage of total mileage travelled empty		34.6	57.9	51.7	65.0	58.4
Fuel:						
Total gallons of gasoline consumed	'000	6,089	8,700	5,786	19,168	39,743
Miles per gallon of gasoline		5.7	10.1	10.8	11.9	10.4
Total gallons of diesel oil consumed	'000	1,485	300	—	—	1,785
Miles per gallon of diesel oil		6.0	6.0	—	—	6.0
Total gallons of other fuel consumed	'000	—	—	—	—	—
Miles per gallon of other fuel		—	—	—	—	—
Weight of goods carried:						
Total tons of goods carried	'000	2,145	6,350	7,718	15,214	31,427
Average weight carried ¹	ton	9.5	3.8	1.9	2.1	3.6
Net ton miles:						
Total net ton miles performed	'000	270,130	142,525	56,487	163,635	632,777
Average net ton miles per truck		168,800	16,500	4,400	2,000	6,100
Capacity ton miles:						
Total capacity ton miles ²	'000	548,866	378,983	163,466	574,310	1,665,625
Average capacity ton miles per truck		343,000	44,000	12,800	7,100	16,000
Percentage of capacity utilized		49.2	37.6	34.6	28.5	38.0
Gross ton miles:						
Total gross ton miles ³	'000	664,521	456,980	218,608	802,434	2,142,543
Average gross ton miles per truck		415,300	53,000	17,100	9,900	20,500
Revenue:						
Total revenue	\$'000	15,729	—	—	—	—
Revenue per ton mile	¢	5.8	—	—	—	—
Revenue per mile (total mileage travelled)	¢	36.0	—	—	—	—
Average revenue per truck	\$	9,800	—	—	—	—
Estimated annual population		1,600	8,618	12,782	81,400	104,400

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	124,581	144,063	32,870	26,325	47,410	48,253	423,502
Average yearly mileage per truck		4,700	3,500	2,700	1,900	5,200	21,700	4,100
Average distance each ton was carried.....		9.2	11.0	9.9	10.8	15.4	47.2	20.1
Percentage of total mileage travelled empty		70.6	64.2	51.0	44.1	42.5	37.9	58.4
Fuel:								
Total gallons of gasoline consumed	'000	8,280	11,647	3,180	3,137	6,295	7,204	39,743
Miles per gallon of gasoline		15.0	12.4	10.3	8.4	7.5	5.2	10.4
Total gallons of diesel oil consumed	'000	—	—	—	—	—	1,785	1,785
Miles per gallon of diesel oil		—	—	—	—	—	6.0	6.0
Total gallons of other fuel consumed	'000	—	—	—	—	—	—	—
Miles per gallon of other fuel		—	—	—	—	—	—	—
Weight of goods carried:								
Total tons of goods carried.....	'000	1,540	5,261	3,550	5,176	8,834	7,066	31,427
Average weight carried ¹	ton	0.4	1.1	2.2	3.8	5.0	11.1	3.6
Net ton miles:								
Total net ton miles performed.....	'000	14,139	57,653	35,119	55,996	136,235	333,635	632,777
Average net ton miles per truck		500	1,400	2,900	4,000	15,000	149,900	6,100
Capacity ton miles:								
Total capacity ton miles ²	'000	109,360	275,817	102,580	146,339	355,257	676,272	1,665,625
Average capacity ton miles per truck		4,100	6,800	8,600	10,600	39,100	303,900	16,000
Percentage of capacity utilized		12.9	20.9	34.2	38.3	38.3	49.3	38.0
Gross ton miles:								
Total gross ton miles ³	'000	218,817	443,351	146,208	163,841	364,043	806,283	2,142,543
Average gross ton miles per truck		8,300	10,900	12,200	11,800	40,100	362,400	20,500
Estimated annual population		26,430	40,801	11,997	13,861	9,086	2,225	104,400

¹ Net ton miles divided by miles travelled with load.² Capacity ton miles are determined by multiplying the actual total number of miles travelled by the estimated capacity or the weight of the heaviest load carried, whichever is larger.³ Gross ton miles 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 SASKATCHEWAN REGISTERED TRUCKS
JANUARY 1—DECEMBER 31, 1960**

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

Origin and destination	For hire			Private intercity ¹			Total ¹		
	Into Saskat- chewan	Out of Saskat- chewan	Total	Into Saskat- chewan	Out of Saskat- chewan	Total	Into Saskat- chewan	Out of Saskat- chewan	Total
	'000 tons								
Newfoundland	—	—	—						
Prince Edward Island	—	—	—						
Nova Scotia	—	—	—						
New Brunswick	—	—	—						
Quebec	—	—	—						
Ontario	22	2	24						
Manitoba	64	141	205						
Alberta	55	33	88						
British Columbia	—	—	—						
United States	7	7	14						
Totals	148	183	331						

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	¢
Agricultural products ¹	—	—	—	—	—	—	—
Animals and animal products	47	1,640	17,141	10.5	362.8	536	3.1
Mine products ¹	—	—	—	—	—	—	—
Forest products ¹	—	—	—	—	—	—	—
Manufactures and miscellaneous	188	8,784	93,624	10.7	498.4	4,503	4.8
N.O.S. general freight	96	2,454	24,013	9.8	250.4	868	3.6
Totals	331	12,878	134,778	10.3	407.2	5,907	4.4
	Private intercity ¹						
	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							
Animals and animal products							
Mine products							
Forest products							
Manufactures and miscellaneous							
N.O.S. general freight							
Totals							

¹ Reliable statistics not available.

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 Saskatchewan truck population in 1960							
For hire	—	83	22	72	364	1,059	1,600
Private:							
Intercity	4,115	1,638	223	570	1,417	655	8,618
Urban	7,265	2,416	751	1,082	858	410	12,782
Farm	15,050	36,664	11,001	12,137	6,447	101	81,400
Totals	26,430	40,801	11,997	13,861	9,086	2,225	104,400
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	963	466		203		274	
Private:							
Intercity	1,926	674		640		612	
Urban	1,632	587		528		517	
Farm	3,248	774		1,410		1,064	
Totals	7,769	2,521		2,781		2,467	

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