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MOTOR TRANSPORT TRAFFIC  
PROVINCE OF SASKATCHEWAN  
1959



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PROVINCE OF SASKATCHEWAN  
JANUARY 1-DECEMBER 31, 1959

CHART -1

TRUCK REGISTRATIONS BY TYPE OF OPERATION

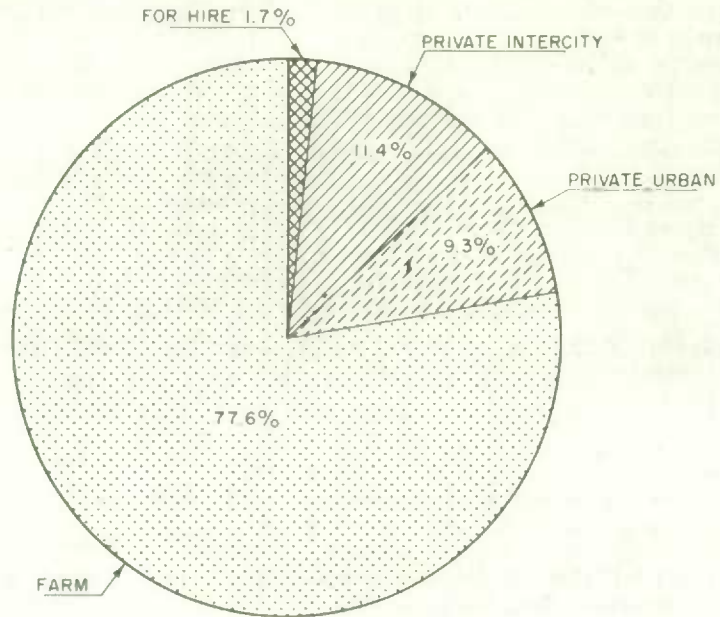
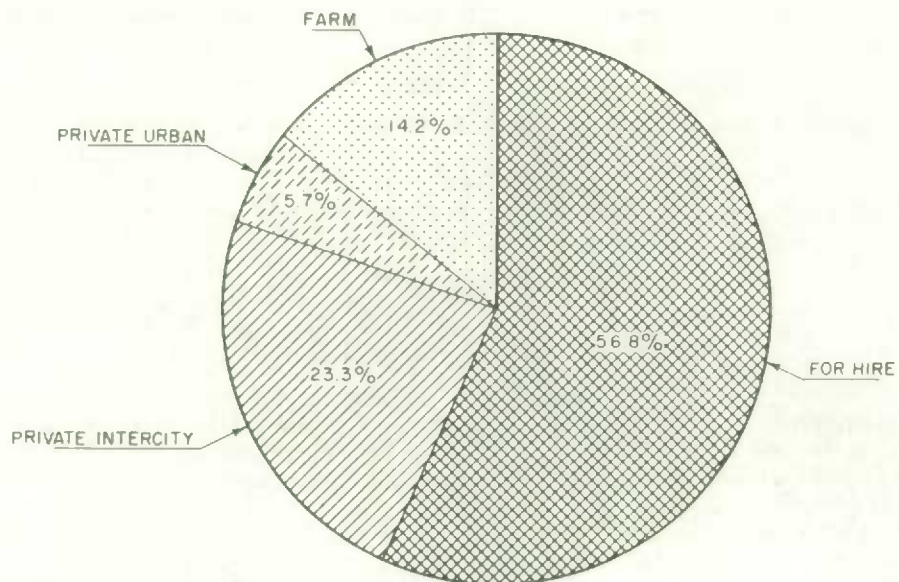


CHART -2

NET TON MILES BY TYPE OF OPERATION





## INTRODUCTION

The 1959 annual report of motor transport traffic in the Province of Saskatchewan is based upon a sample of approximately 12 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.

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 and 1958.

### 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 week. The expanded data for each of the four quarterly segments were added together to obtain annual provincial estimates.

To improve the accuracy of the provincial estimates, it was decided to use, for 1959, the peak

registration population in calculating the blow-up factor rather than the population as at four different periods during the year.

Unfortunately time has not permitted calculations of the reliability of these estimates similar to those published in the 1958 report. It should also be noted that the section dealing exclusively with trips originating and terminating within the province has been omitted from this report for the purposes of simplification.

## Review of Survey Results

The estimated population of trucks performing transportation services in Saskatchewan during the year rose 2.9 per cent to 103,860 from 100,970 in 1958. Of these 1,830 or 1.7 per cent were for hire trucks; 11,813 or 11.4 per cent were private inter-city vehicles; 9,657 or 9.3 per cent were private vehicles operating wholly within urban areas; and 80,560 or 77.6 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.

Although comprising only 1.7 per cent of Saskatchewan's truck population, for hire vehicles accounted for 56.8 per cent of the total net ton miles and 9.8 per cent of the total tons of goods carried during 1959. This results from the high average yearly mileage of these trucks, 40,000 miles as compared with 4,200 miles for all trucks, and from the heavy average load carried of 9.5 tons compared to 4.4 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, 6.3 compared with 10.1 for all trucks.

It is estimated that less than 1 per cent of the total net ton miles performed by Saskatchewan registered for hire trucks was in urban operations.

Some trucks in Saskatchewan under 10,000 lb. gross vehicle weight are used essentially for personal transportation. Such vehicles accounted for about 16 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 32.1 per cent and private inter-city 6.0 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 three tenths of the revenue earned by these vehicles. One half 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 1**

During the year survey questionnaires were sent to the owners or operators of 12,220 trucks. Of this number 3,451 were returned completed and

4,669 trucks were reported not used during the survey week. The remaining 4,100 were either returned incomplete and unusable or not returned at all.

May 17, 1961

**SECTION I. TRAFFIC PERFORMED BY SASKATCHEWAN REGISTERED TRUCKS INSIDE AND OUTSIDE THE PROVINCE  
JANUARY 1 - DECEMBER 31, 1959**

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

		For hire	Private			Total
			Intercity	Urban	Farm	
<b>Mileage:</b>						
Total mileage travelled .....	'000	73,234	129,129	42,903	193,011	438,277
Average yearly mileage per truck .....		40,000	10,900	4,400	2,400	4,200
Average distance each ton was carried .....		171.3	21.9	7.5	11.4	29.4
Percentage of total mileage travelled empty .....		33.1	59.6	44.0	67.9	57.3
<b>Fuel:</b>						
Total gallons of gasoline consumed .....	'000	9,676	12,140	4,186	15,916	41,918
Miles per gallon of gasoline .....		6.3	10.4	10.2	12.1	10.1
Total gallons of diesel oil consumed .....	'000	2,177	540	—	—	2,717
Miles per gallon of diesel oil .....		5.8	5.8	—	—	5.8
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	2,712	8,711	6,204	10,166	27,793
Average weight carried <sup>1</sup> .....	ton	9.5	3.7	2.0	1.9	4.4
<b>Net ton miles:</b>						
Total net ton miles performed .....	'000	464,553	190,541	46,840	115,617	817,551
Average net ton miles per truck .....		253,900	16,100	4,900	1,400	7,900
<b>Capacity ton miles:</b>						
Total capacity ton miles <sup>2</sup> .....	'000	924,780	524,778	125,242	468,820	2,043,620
Average capacity ton miles per truck .....		505,300	44,400	13,000	5,800	19,700
Percentage of capacity utilized .....		50.2	36.3	37.4	24.7	40.0
<b>Gross ton miles:</b>						
Total gross ton miles <sup>3</sup> .....	'000	1,085,610	646,681	172,638	637,258	2,542,187
Average gross ton miles per truck .....		593,200	54,700	17,900	7,900	24,500
<b>Revenue:</b>						
Total revenue .....	\$'000	26,678	—	—	—	—
Revenue per ton mile .....	¢	5.7	—	—	—	—
Revenue per mile (total mileage travelled) .....	¢	36.4	—	—	—	—
Average revenue per truck .....	\$	14,600	—	—	—	—
Estimated annual population .....		1,830	11,813	9,657	80,560	103,860

**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
<b>Mileage:</b>							
Total mileage travelled .....	'000	125,255	130,300	30,235	26,760	46,433	438,277
Average yearly mileage per truck .....		4,900	3,100	2,500	2,000	5,100	4,200
Average distance each ton was carried .....		17.7	12.2	10.5	11.3	15.4	29.4
Percentage of total mileage travelled empty .....		67.9	68.6	58.0	44.9	41.9	57.3
<b>Fuel:</b>							
Total gallons of gasoline consumed .....	'000	8,337	10,225	2,972	3,198	6,442	41,918
Miles per gallon of gasoline .....		15.0	12.7	10.2	8.4	7.2	10.1
Total gallons of diesel oil consumed .....	'000	—	—	—	—	—	2,717
Miles per gallon of diesel oil .....		—	—	—	—	—	5.8
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	817	3,524	2,382	4,496	9,754	27,793
Average weight carried <sup>1</sup> .....	ton	0.4	1.1	2.0	3.5	5.6	4.4
<b>Net ton miles:</b>							
Total net ton miles performed .....	'000	14,426	43,097	24,995	50,893	150,000	817,551
Average net ton miles per truck .....		600	1,000	2,100	3,700	16,600	7,900
<b>Capacity ton miles:</b>							
Total capacity ton miles <sup>2</sup> .....	'000	113,904	242,953	88,386	145,913	363,719	2,043,620
Average capacity ton miles per truck .....		4,400	5,900	7,400	10,700	40,200	19,700
Percentage of capacity utilized .....		12.7	17.7	28.3	34.9	41.2	40.0
<b>Gross ton miles:</b>							
Total gross ton miles <sup>3</sup> .....	'000	230,460	385,974	133,051	159,378	370,856	2,542,187
Average gross ton miles per truck .....		9,000	9,300	11,100	11,700	41,000	24,500
Estimated annual population .....		25,693	41,450	11,951	13,604	9,048	103,860

See footnotes at end of Table 5, 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 .....	94	1,984	2,821	1.4	30.1	974	34.5
20,001-30,000 lb. ....	430	5,915	27,768	4.7	64.5	2,692	9.7
30,001-50,000 lb. ....	1,397	25,072	240,390	9.6	172.1	14,503	6.0
50,001 lb. and over .....	791	16,017	193,574	12.1	244.8	8,509	4.4
<b>Totals</b> .....	<b>2,712</b>	<b>48,988</b>	<b>464,553</b>	<b>9.5</b>	<b>171.3</b>	<b>26,678</b>	<b>5.7</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 lb. and under .....	334	23,672	10,735	0.5	32.1		
10,001-20,000 lb. ....	768	6,195	16,386	2.6	21.3		
20,001-30,000 lb. ....	4,271	12,897	75,144	5.8	17.6		
30,001 lb. and over .....	3,338	9,375	88,276	9.4	26.4		
<b>Totals</b> .....	<b>8,711</b>	<b>52,139</b>	<b>190,541</b>	<b>3.7</b>	<b>21.9</b>		

**SECTION II. TRAFFIC PERFORMED BY SASKATCHEWAN REGISTERED TRUCKS WITHIN THE PROVINCE  
JANUARY 1 - DECEMBER 31, 1959**

TABLE 4. All Trucks by Type of Operation

		For hire	Private			Total
			Intercity	Urban	Farm	
<b>Mileage:</b>						
Total mileage travelled .....	'000	54,560	120,255	42,903	193,011	410,729
Average yearly mileage per truck .....		29,800	10,200	4,400	2,400	4,000
Average distance each ton was carried .....		123.2	21.0	7.5	11.4	23.9
Percentage of total mileage travelled empty .....		35.3	61.9	44.0	67.9	59.3
<b>Fuel:</b>						
Total gallons of gasoline consumed .....	'000	7,617	11,403	4,186	15,916	39,122
Miles per gallon of gasoline .....		6.3	10.4	10.2	12.1	10.3
Total gallons of diesel oil consumed .....	'000	1,058	285	—	—	1,343
Miles per gallon of diesel oil .....		5.9	5.7	—	—	5.8
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	2,560	8,531	6,204	10,166	27,461
Average weight carried <sup>1</sup> .....	ton	8.9	3.9	2.0	1.9	3.9
<b>Net ton miles:</b>						
Total net ton miles performed .....	'000	315,376	179,075	46,840	115,617	656,908
Average net ton miles per truck .....		172,300	15,200	4,900	1,400	6,300
<b>Capacity ton miles:</b>						
Total capacity ton miles <sup>2</sup> .....	'000	664,623	469,483	125,242	468,820	1,726,168
Average capacity ton miles per truck .....		363,200	39,700	13,000	5,800	16,600
Percentage of capacity utilized .....		47.4	38.1	37.4	24.7	38.0
<b>Gross ton miles:</b>						
Total gross ton miles <sup>3</sup> .....	'000	772,303	582,966	172,638	637,258	2,165,165
Average gross ton miles per truck .....		422,000	49,300	17,900	7,900	20,800
<b>Revenue:</b>						
Total revenue .....	\$'000	19,923	—	—	—	—
Revenue per ton mile .....	¢	6.3	—	—	—	—
Revenue per mile (total mileage travelled) .....	¢	36.5	—	—	—	—
Average revenue per truck .....	\$	10,900	—	—	—	—
Estimated annual population .....		1,830	11,813	9,657	80,560	103,860

See footnotes at end of Table 5, page 9.



TABLE 5. 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
<b>Mileage:</b>							
Total mileage travelled .....	'000 121,650	129,234	29,975	26,466	44,293	59,111	410,729
Average yearly mileage per truck .....	4,700	3,100	2,500	1,900	4,900	28,000	4,000
Average distance each ton was carried .....	16.5	12.2	10.3	11.2	14.8	57.6	23.9
Percentage of total mileage travelled empty .....	69.8	68.3	58.0	45.2	42.0	37.9	59.3
<b>Fuel:</b>							
Total gallons of gasoline consumed .....	'000 8,156	10,120	2,900	3,155	6,155	8,636	39,122
Miles per gallon of gasoline .....	14.9	12.8	10.3	8.4	7.2	5.9	10.3
Total gallons of diesel oil consumed .....	'000 —	—	—	—	—	1,343	1,343
Miles per gallon of diesel oil .....	—	—	—	—	—	5.8	5.8
Total gallons of other fuel consumed .....	'000 —	—	—	—	—	—	—
Miles per gallon of other fuel .....	—	—	—	—	—	—	—
<b>Weight of goods carried:</b>							
Total tons of goods carried .....	'000 817	3,524	2,378	4,491	9,605	6,646	27,461
Average weight carried <sup>1</sup> .....	ton 0.4	1.1	2.0	3.5	5.5	10.4	3.9
<b>Net ton miles:</b>							
Total net ton miles performed .....	'000 13,442	43,097	24,557	50,486	142,363	382,963	656,908
Average net ton miles per truck .....	500	1,000	2,100	3,700	15,700	181,200	6,300
<b>Capacity ton miles:</b>							
Total capacity ton miles <sup>2</sup> .....	'000 110,823	241,332	87,402	144,391	345,768	798,452	1,728,168
Average capacity ton miles per truck .....	4,300	5,800	7,300	10,600	38,200	377,700	16,600
Percentage of capacity utilized .....	12.1	17.9	28.1	35.0	41.2	48.0	36.0
<b>Gross ton miles:</b>							
Total gross ton miles <sup>3</sup> .....	'000 223,782	383,501	131,766	157,753	353,088	915,275	2,165,165
Average gross ton miles per truck .....	8,700	9,300	11,000	11,600	39,000	433,000	20,800
Estimated annual population .....	25,693	41,450	11,951	13,604	9,048	2,114	103,860

<sup>1</sup> Ton miles divided by miles travelled with load.<sup>2</sup> 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.<sup>3</sup> 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, 1959

TABLE 6. Tons of Goods Carried by Province of Origin and Destination

Origin and destination	For hire			Private intercity <sup>1</sup>			Total <sup>2</sup>		
	Into Saskatchewan	Out of Saskatchewan	Total	Into Saskatchewan	Out of Saskatchewan	Total	Into Saskatchewan	Out of Saskatchewan	Total
'000 tons									
Newfoundland .....	—	—	—						
Prince Edward Island .....	—	—	—						
Nova Scotia .....	—	—	—						
New Brunswick .....	—	—	—						
Quebec .....	—	1	1						
Ontario .....	13	4	17						
Manitoba .....	88	136	224						
Alberta .....	118	70	188						
British Columbia .....	1	—	1						
United States .....	2	13	15						
<b>Totals .....</b>	<b>222</b>	<b>224</b>	<b>446</b>						

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

TABLE 7. 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 .....	10	401	6,553	16.3	685.5	159	2.4
Animals and animal products .....	67	2,613	31,691	12.1	469.9	1,111	3.5
Mine products .....	8	364	3,035	8.3	403.0	86	2.8
Forest products .....	—	—	—	—	—	—	—
Manufactures and miscellaneous .....	271	9,983	105,798	10.6	391.0	5,080	4.8
N.O.S. general freight .....	90	2,518	24,607	9.8	272.1	1,115	4.5
<b>Totals .....</b>	<b>446</b>	<b>15,879</b>	<b>171,684</b>	<b>10.8</b>	<b>385.3</b>	<b>7,551</b>	<b>4.4</b>
	Private intercity <sup>1</sup>						
	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 .....							
<b>Totals .....</b>							

<sup>1</sup> 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 1959							
For hire .....	—	114	43	141	335	1,197	1,830
Private:							
Intercity .....	5,680	2,174	526	979	1,781	673	11,813
Urban .....	5,677	1,886	515	746	640	193	9,657
Farm .....	14,336	37,276	10,867	11,738	6,292	51	80,560
<b>Totals .....</b>	<b>25,693</b>	<b>41,450</b>	<b>11,951</b>	<b>13,604</b>	<b>9,048</b>	<b>2,114</b>	<b>103,860</b>
	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 .....	642	361	127	154			
Private:							
Intercity .....	1,493	548	464	481			
Urban .....	1,612	621	478	513			
Farm .....	8,473	1,921	3,600	2,953			
<b>Totals .....</b>	<b>12,220</b>	<b>3,451</b>	<b>4,669</b>	<b>4,100</b>			





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