

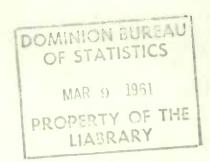


# MOTOR TRANSPORT TRAFFIC

NATIONAL ESTIMATES

THIRD QUARTER, 1959

1st.



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#### MOTOR TRANSPORT TRAFFIC - NATIONAL ESTIMATES

#### THIRD QUARTER, 1959

Since 1957 the Oominion Bureau of Statistics has published an annual series on Motor Transport Traffic both for Casson (Assignates) and individual provinces. The contents of these reports derived from a random sample of commercial motor vehicles include such information as mileage, fuel consumption, weight of goods carried, net ton miles and revenue, for four classes of vehicles; for hire (common and contract), private intercity, urban and farm.

For a complete description of the design of the sample as well as the methods and procedures, reference should be made to the publication "Motor Transport Traffic - National Estimates, 1957," Catalogue No. 53-207.

This quarterly publication, the first in the series, has been designed to provide additional detail which has become available from the sample surveys of commercial motor vehicle registrations conducted in each of the ten provinces on a continuing quarterly basis. The series covers the operation of intercity vehicles, both private and for hire, but, it should be noted that urban services of these vehicles are necessarily included. The operations of vehicles classed as farm and urban are described in the annual Motor Transport Traffic reports but are excluded from this quarterly publication.

This report includes tables dealing with for hire vehicles and private intercity vehicles. For each class the data are broken down to show operations on trips up to and including 50 miles and on trips over 50 miles as well as total operations.

For purposes of comparison with other modes of transport, the Railway Freight Commodity Statistics Classification has been generally followed (see Appendix I). However, where sufficient descriptive detail was not reported for a particular item it was necessary to assign it to a N.O.S. (not otherwise specified) class. Also, mixed truckloads of goods which were within the same main commodity group, such as agricultural products, have been included with "other agricultural products". However, when the commodities reported for a mixed truckload belonged to more than one of the five main commodity groups, they have been assigned to the "N.O.S. general freight" group. Therefore, the totals shown for individual commodities are understated in proportion to the amount of that commodity which, of necessity, was assigned to one of these general classes.

The results of the provincial sample surveys were expanded to represent the estimated truck population for the thirteen weeks of the quarter and combined for a Canada total. A cut off of 100,000 tons was deemed to be a reliable basis for determining the commodities to be shown separately. However, if any specific commodity was not shown it does not follow that the tonnage was automatically less than 100,000 tons. Where a particular commodity exceeded 100,000 tons in total only, it was shown separately in all three tables for uniformity. Because of this method of selection, it has been possible to show more commodities individually for the for hire vehicles in tables 1 to 3 than for the private intercity trucks in tables 4 to 6. All other commodities not listed separately have been included in either the "other" figures of the five main commodity groups or in the N.O.S. general freight as previously explained.

Weight of goods carried, miles travelled with load, net ton miles and revenue have been rounded to thousands and average distance per ton has been rounded to tens. Averages were calculated before the figures were rounded. The data in this report are estimates subject to sampling error. As time has not permitted a study of the reliability of the detailed information, the data should be used with caution.

#### Glossary of Terms

Average distance per ton - average distance each ton was carried. Net ton miles divided by the total weight of goods carried.

Average weight carried per truck - total net ton miles performed divided by miles travelled with load.

For hire vehicles - those vehicles (common and contract) which were operated for compensation and, in most provinces, were identified by a distinct series of licence plate numbers, especially for public service vehicles.

Net ton miles - average weight of goods carried per trip multiplied by the number of loaded miles.

N.O.S. - not otherwise specified. (As a result of insufficient descriptive detail for some of the commodities recorded in the questionnaires, it has been necessary to assign these commodities to the N.O.S. classes rather than to a more specific class.)

Private Intercity vehicles - privately owned trucks (both intercity and rural) which were operated beyond urban areas and were not used directly in connection with farm operations.

Weight of goods carried - Total weight of goods loaded on the vehicles.

### For Hire Trucks

In the third quarter of 1959, for hire trucks carried an estimated 50,279,000 tons of goods. The average weight carried by these vehicles was 10 tons and the average distance per ton was approximately 60 miles. The net ton miles performed was 2,887,248,000 and the revenue received for the transportation of goods was \$193,026,000 which averaged 6.7 cents per ton mile.

For trips over 50 miles, manufactures and miscellaneous products accounted for 54 per cent of the weight of goods carried, 46 per cent of the net ton miles performed and 51 per cent of the revenue for these for hire trucks.

#### Private Intercity Trucks

The private intercity vehicles, in the third quarter of 1959, carried an estimated 46,689,000 tons of goods with an average weight of 4 tons and the average distance per ton was approximately 20 miles. The ton miles for these vehicles amounted to 1,065,952,000 which was only 37 per cent of the ton miles performed by for hire trucks.

For trips over 50 miles, manufactures and miscellaneous products accounted for 58 per cent of the weight of goods carried and the 3 per cent of the net ton miles performed by these private intendity trucks.

TABLE 1. Total For Hire Truck Traffic

Commodities	Weight of goods carried	Average weight carried	Miles travelled with load	Net ton miles	Average distance per ton	Revenue	Revenue per
	'000 tons	tons	1000	1 000	miles	\$1000	ton mil
			000	000	MILES	7 000	
agricultural products							
Grain	657	12	1,500	17,887	30	1,147	6.4
Mill products  Vegetables	204 260	15 14	1,348 2,397	19,686 33,315	100	565 1,469	2.9
Other agricultural products	337	12	4,292	49,729	150	2,698	5.4
Total agricultural products	1,458	13	9,537	120,617	80	5,879	4.9
nimals and animal products							
Live animals and poultry	265	7	4,747	30,861	120	2,482	8.0
Meats and dressed poultry	180	13	10,631	135,606	750	5,041	3.7
Dairy products Other animals and animal products	1,079 354	9	11,169 8,360	45,159 75,349	210	4,345 3,174	9.6
Total animals and animal products	1,878	8	34, 907	286,975	150	15,042	5.2
	-,-,-		3-1,507	200, 373	150	15,042	3.2
ine products							
Gravel and sand, N.O.S	16,592	9	14,809	137,022	10	10,140	7.4
Stone and rock: broken, ground and crushed	2,313	11	3,260	36,747	20	2,199	6.0
Asphalt Other mine products	1,113 7,233	13	2,273 7,489	28,427 76,459	30	1,823 5,497	6.4 7.2
Total mine products	27,251	10	27,831	278,655	10	19,659	7.1
orest products							
Logs, butts and bolts	210	1.7	600	7.50/			
Lumber, shingles and lath	793	13 11	605 3,424	7,584	50	930	12.3
Other forest products	272	10	2,111	20,912	80	1,369	6.5
Total forest products	1,275	11	6,140	67,175	50	4,216	6.3
anufactures and miscellaneous							
Gasoline	420	1.2	2.00/	/5 055			
Fuel, road and petroleum residual oils, N.O.S.	438 302	12	3,904 1,533	45,055 17,994	100 60	2,239 1,121	5.0
Petroleum products, refined, N.O.S	717	12	5,983	73,440	100	3,710	5.1
Chemicals	285	17	1,916	32,823	120	1,561	4.8
Machinery and machines, N.O.S.	230	15 12	1,746	65,409	110 90	3,610 1,797	5.5
Vehicle parts, N.O.S	150	11	2,143	23,814	160	1,675	7.0
Cement	921	18	3,887	68,938	80	3,044	4.4
Brick, Common	277	11	1,417	15,100	60	871	5.8
Artificial stone, N.O.S.	160 314	10	639 912	6,602	40	465 996	7.1
Lime, N.O.S	201	18	868	15,149	80	913	6.0
Paper and paper articles	615	11	6,949	78,439	130	4,933	6.3
Building materials, N.O.S.	471	9	4,109	37,253	80	2,880	7.7
Food products	336	13	2,507	33,423	100	1,756	5.3
Other manufactures and miscellaneous	703 4,726	11	8,557 70,880	92,943 577,661	130	6,049 48,809	6.5 8.4
Total manufactures and miscellaneous	11,467	10	122,383	1,216,136	110	86,429	7.1
O.S. general freight	6,950	10	89,408	917,690	130	61,801	6.7
Vii.							

TABLE 2. For Hire Truck Traffic - Trips up to and Including 50 Miles

Commodities	Weight of goods carried	Average weight carried	Miles travelled with load	Net ton miles	Average distance per ton	Revenue	Revenue per ton mile
	1000 tons	tons	1000	'000	miles	\$'000	£
Agricultural products							
Grain Mill products Vegetables Other agricultural products	540 150 136 160	8 8 14 5	651 110 231 611	5,221 858 3,125 3,211	10 10 20 20	632 140 316 608	12.1 16.3 10.1 18.9
Total agricultural products	986	8	1,603	12,415	10	1,696	13.7
Animals and animal products							
Live animals and poultry	80 8 975	4 4 3	659 96 9,794	2,296 333 30,902	30 40 30	409 73 3,505	17.8 21.8 11.3
Other animals and animal products	123	4 3	902	3,113	30	914	29.4
Total animals and animal products	1,186	3	11,451	36,644	30	4,901	13.4
fine products							
Gravel and sand, N.O.S	16,592 2,313 1,004 6,942	9 11 8 10	14,809 3,260 1,348 5,625	137,022 36,747 10,684 53,895	10 20 10 10	10,140 2,199 947 4,518	7.4 6.0 8.9 8.4
Total mine products	26,851	10	25,042	238,348	10	17,804	7.5
Forest products							
Logs, butts and bolts  Lumber, shingles and lath  Other forest products	125 271 190	11 8 7	214 757 680	2,347 6,329 4,621	20 20 20	379 716 602	16.2 11.3 13.0
Total forest products	586	8	1,651	13,297	20	1,697	12.8
lanufactures and miscellaneous							
Gasoline	149 182 325 100	6 11 7 18	436 300 885 140	2,585 3,434 5,927 2,578	20 20 20 30	405 355 848 184	15.7 10.3 14.3 7.1
Manufactured iron and steel	299 128 34 493 204	15 11 6 12 8	577 194 68 476 721	8,720 2,108 429 5,672 5,948	30 20 10 10 30	730 267 262 497 439	8.4 12.7 61.1 8.8 7.4
Brick, N.O.S., and building tile	127 208 92 294	9 11 16 4	335 254 179 1,645	3,047 2,771 2,874 5,694	20 10 30 20	298 420 269 1,320	9.8 15.2 9.4 23.2
Building materials, N.O.S. Liquors, malt Food products Other manufactures and miscellaneous	239 56 315 2,697	4 7 4	1,545 234 1,989 14,315	5,509 1,547 8,419 50,465	20 30 30 20	834 136 1,469 13,392	15.1 8.8 17.4 26.5
Total manufactures and miscellaneous	5,942	5	24,293	117,727	20	22,125	18.8
.O.S. general freight	4,521	4	21,397	74,075	20	19,628	26,5
GRAND TOTAL	40,072	6	85,437	492,506	10	67,851	13.8

TABLE 3. For Hire Truck Traffic - Trips Over 50 Miles

Commodities	Weight of goods carried	Average weight carried	Miles travelled with load	Net ton miles	Average distance per ton	Revenue	Revenue per ton mile
	'000 tons	tons	1000	'000	miles	\$1000	ŧ
Agricultural products							
01	117	1.5	0.10	10 666	110	515	6. 1
Grain	117 54	15 15	1,238	12,666	110 350	515 425	4.1
Vegetables	124	14	2,166	30,190	240	1,153	3.8
Other agricultural products	177	13	3,681	46,518	260	2,090	4.5
Total agricultural products	472	14	7,934	108,202	230	4,183	3.9
Animals and animal products							
Live animals and poultry	185	7	4,088	28,565	150	2,073	7.3
Meats and dressed poultry	172	13	10,535	135,273	790	4,968	3.7
Dairy products	104	10	1,375	14,257	140	840	5.9
Other animals and animal products	231	10	7,458	72,236	310	2,260	3.1
Total animals and animal products	692	11	23,456	250,331	360	10,141	4.1
Mine avaduate							
Mine products							
Gravel and sand, N.O.S. (1)	-	-	-	-	-	89	-
Stone and rock: broken, ground and crushed (1) Asphalt	109	19	925	17,743	160	876	4.9
Other mine products	291	12	1,864	22,564	80	979	4.3
Total mine products	400	14	2,789	40,307	100	1,855	4.6
Forest products  Logs, butts and bolts	85	13	391	5,237	60	551	10.5
Lumber, shingles and lath	522 82	12	2,667 1,431	32,350 16,291	60 200	1,201 767	3.7
Total forest products	689	12	4,489	53,878	80	2,519	4.7
Manufactures and miscellaneous							
Gasoline	289	12	3,468	42,470	150	1,834	4.3
Fuel, road and petroleum residual oils, N.O.S.	120	12	1,233	14,560	120	766	5.3
Petroleum products, refined, N.O.S	392	13	5,098	67,513	170	2,862	4.2
Chemicals	185	17	1,776	30,245	160	1,377	4.6
Manufactured iron and steel	322 102	15 12	3,856 1,552	56,689 18,544	180 180	2,880 1,530	5.1
Vehicle parts, N.O.S.	116	11	2,075	23,385	200	1,413	6.0
Cement	428	19	3,411	63,266	150	2,547	4.0
Brick, common	73	13	696	9,152	130	432	4.7
Brick, N.O.S., and building tile	33	12	304	3,555	110	167	4.7
Artificial stone, N.O.S	106	13 18	658	8,670 12,275	80 110	576 644	6.6 5.2
Paper and paper articles	321	14	5,304	72,745	230	3,613	5.0
Building materials, N.O.S.	232	12	2,564	31,744	140	2,046	6.4
Liquors, malt	280	14	2,273	31,876	110	1,620	5.1
Food products	388	13	6,568 56,565	84,524 527,196	220 260	4,580 35,417	5.4
Total manufactures and miscellaneous	5,525	11	98,090	1,098,409	200	64,304	5.9
N.O.S. general freight	2,429	12	68,011	843,615	350	42,173	5.0
GRAND IOTAL	10,207	12	204,769	2,394,742	230	125,175	5.2

<sup>(1)</sup> The sample did not provide sufficient number of trips to produce reliable statistics for these commodities.

TABLE 4. Total Private Intercity Truck Traffic

Commodities	Weight of goods carried	Average weight carried	Miles travelled with load	Net ton miles	Average distance per ton
	'000 tons	tons	000	1000	miles
Agricultural products					
Grain Fruit Other agricultural products	218 213 446	10 7 7	1,036 1,793 4,913	10,619 12,771 32,688	50 60 70
Total agricultural products	877	7	7,742	56,078	60
Animals and animal products					
Meats and dressed poultry  Dairy products  Other animals and animal products	217 870 275	3 3	4,470 18,534 7,025	18,258 47,809 20,866	80 60 80
Total animals and animal products	1,362	3	30,029	86,933	60
line products					
Gravel and sand, N.O.S	17,361 9,580	8 10	15,407 10,595	124,341 107,259	10 10
Total mine products	26,941	9	26,002	231,600	10
orest products					
Pulpwood Lumber, shingles and lath Other forest products	535 1,155 1,717	8 7 8	2,469 8,367 6,503	20,845 59,690 49,509	40 50 30
Total forest products	3,407	8	17,339	130,044	40
lanufactures and miscellaneous					
Gasoline Fuel, road and petroleum residual oils, N.O.S. Petroleum products, refined, N.O.S. Chemicals Manufactured iron and steel Machinery and machines, N.O.S. Cement Building materials, N.O.S. Liquors, malt Beverages, N.O.S. Food products Feed, animal and poultry, N.O.S. Other manufactures and miscellaneous	2,496 826 1,727 239 215 300 1,301 273 351 521 880 523 2,815	9 8 6 16 8 3 8 2 9 6 2 7	8,443 4,492 8,305 564 1,507 4,145 3,457 5,578 2,346 4,709 31,111 3,555 86,547	77,536 34,617 50,715 8,843 11,492 12,772 26,405 9,220 20,695 25,747 63,773 23,081 153,331	30 40 30 40 50 40 20 30 60 50 70 40
Total manufactures and miscellaneous	12,467	3	164,759	518,227	40
.O.S. general freight	1,635	2	24,387	43,070	30
GRAND TOTAL	46,689	4	270,258	1,065,952	20

TABLE 5. Private Intercity Truck Traffic-Trips up to and Including 50 Miles

Grain	148 173 310 631	7 5 3 4	380 544 1,940	2,682 2,586 6,250	miles 20 20
Grain Fruit Other agricultural products  Total agricultural products	173 310	5 3	544 1,940	2,586	
Grain Fruit Other agricultural products  Total agricultural products	173 310	5 3	544 1,940	2,586	
Fruit Other agricultural products  Total agricultural products	173 310	5 3	544 1,940	2,586	
Other agricultural products  Total agricultural products	310	3	1,940		20
	631	4			20
nimals and animal products			2,864	11,518	20
Meats and dressed poultry	167	1	2,752	3,119	20
Dairy products	756	2	16,255	32,044	40
Other animals and animal products	154	1	3,551	4,837	30
Total animals and animal products	1,077	2	22,558	40,000	40
·					
ine products					
Gravel and sand, N.O.S	17,361	8	15,407	124,341	10
Other mine products	9,267	9	8,013	74,332	10
Total mine products	26,628	9	23,420	198,673	10
orest products					
Pulpwood	400	6	1,340	8,252	20
Lumber, shingles and lath	1,340	7	3,812 2,980	18,177 20,411	20
Total forest products	2,582	6	8,132	46,840	20
anufactures and miscellaneous					
Gasoline	2,047	8	5,299	42,002	20
Fuel, road and petroleum residual oils, N.O.S. Petroleum products, refined, N.O.S.	1,455	6 5	2,946 5,871	16,657	30 20
Chemicals	226	14	348	5,006	20
Manufactured iron and steel	165	5	840	4,106	30
Machinery and machines, N.O.S	218	3	950	3,129	10 10
Cement	1,183	6	2,398 3,779	15,418	20
Building materials, N.O.S	206	4	953	3,851	20
Beverages, N.O.S.	400	4	2,941	12,240	30
Food products	585	1	24,634	18,530	30
Feed, animal and poultry, N.O.S	392	4	1,926	8,091	20
Other manufactures and miscellaneous	1,982	1	58,388	46,628	20
Total manufactures and miscellaneous	9,718	2	111,273	208,510	20
.O.S. general freight	1,350	1.	16,376	21,625	20
GRAND TOTAL	41,986	3	184,623	527,166	10

TABLE 6. Private Intercity Truck Traffic - Trips Over 50 Miles

Commodities	Weight of goods carried	Average weight carried	Miles travelled with load	Net ton miles	Average distance per ton
	'000 tons	tons	*000	'000	miles
gricultural products					
Grain	70	12	656	7,937	110
Fruit	40	8	1,249	10,185	260
Other agricultural products	136	9	2,973	26,438	200
Total agricultural products	246	9	4,878	44,560	180
nimals and animal products					
Meats and dressed poultry	50	9	1,718	15,139	300
Dairy products	114	7	2,279	15,765	140
Other animals and animal products	121	5	3,474	16,029	130
Total animals and animal products	285	6	7,471	46,933	170
fine products					
Gravel and sand, N.O.S. (1)	313	13	2,582	32,927	110
Total mine products	313	13	2,582	32,927	110
orest products					
Pulpwood	135	11	1,129	12,593	90
Lumber, shingles and lath	313	9	4,555	41,513	130
Other forest products	377	8	3,523	29,098	80
Total forest products	825	9	9,207	83,204	100
anufactures and miscellaneous					
Gasoline	449	11	3,144	35,534	80
Fuel, road and petroleum residual oils, N.O.S.	182	12	1,546	17,960	100
Petroleum products, refined, N.O.S	272	9	2,434	21,285	80
Chemicals	13	18	216	3,837	310
Manufactured iron and steel	50	11	667	7,386	150
Cement	82	3	3,195	9,643 10,987	120 90
Building materials, N.O.S	58	3	1,799	5,798	100
Liquors, malt	145	12	1,393	16,844	120
Beverages, N.O.S	121	8	1,768	13,507	110
Food products	295	7	6,477	45,243	150
Feed, animal and poultry, N.O.S Other manufactures and miscellaneous	131 833	9	1,629 28,159	14,990 106,703	120
Total manufactures and miscellaneous	2,749	6	53,486	309,717	110
ACCOUNTS OF THE STATE OF THE ST	2,143	0	33,400	307,121	110
.0.S. general freight	285	3	8,011	21,445	80
GRAND TOTAL	4,703	6	85,635	538,786	110

<sup>1.</sup> The sample did not provide sufficient number of trips to produce reliable statistics for these commodities.

## APPENDIX I

For purposes of comparison individual commodities or commodity groups listed in this report are shown below along with the equivalent Railway Freight Commodity Statistics Classification numbers. This is a combination of the commodities listed in both the for him and the private intercity tables. In some cases, different commodities are shown for the for hire vehicles than for the private intercity trucks. For example, data for vegetables (77-95) are reported separately for the for hire vehicles in Tables 1 to 3 but in Tables 4 to 6 data for vegetables are included in "other agricultural products".

It is expected that this grouping of commodities will be adjusted in future reports according to seasonal variations of goods transported by motor vehicles.

Railway commodity class numbers	Commodities
	Agricultural products
1-13	Condition
15-23	Grain Mill products
49-73	Fruit
77-95	Vegetables
Balance of 1-199	Other agricultural products
	Animals and animal products
201-213, 223	Live animals and poultry
215-219, 225	Meats and dressed poultry
227-233	Dairy products
Balance of 201-299	Other animals and animal products
	Mine products
207	Constant and August N. O. C.
327 329	Gravel and sand, N.O.S.  Stone and rock: broken, ground and grushed.
339	Asphalt
Balance of 301-399	Other mine products
paramos or sor-syy	vende mano passassis
	Forest products
401	Logs, butts and bolts
409	Pulpwood
411	Lumber, shingles and lath
Balance of 401-499	Other forest products
	Manufactures and miscellaneous
501	Gasoline
503	Fuel, road and petroleum residual oils, N.O.S.
507	Petroleum products, refined, N.O.S.
527-533	Chemicals
583	Manufactured iron and steel
595	Machinery and machines, N.O.S.
623	Vehicle parts, N.O.S.
633-635	Cement
637	Brick, common
639 643	Brick, N.O.S., and building tile Artificial stone, N.O.S.
645	Lime, N.O.S.
655-669	Paper and paper articles
671-679	Building materials, N.O.S.
749	Liquors, malt
751	Beverages, N.O.S.
755-765	Food products
773	Feed, animal and poultry, N.O.S.
Balance of 501-799	Other manufactures and miscellaneous
(none)	N.O.S. general freight



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