# MOTOR TRANSPORT TRAFFIC NATIONAL ESTIMATES 

## FOURTH QUARTER, 1959

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## FOURTH Quarter, 1959

This quariarf puilication, the second in the series, has been designed to provide comodity detail which has become avallate from the sample surveys of commercial motor vehicles conducted in each of the ten provinces on continuing quarter 1y basis. For a complete description of the design of the ssmple as well as the methods and procedures, reference should be made to the publication "Motor Transport Traffic - National Estimates, 1957," Catalogue No. 53-207.

The quarterly series covers the operation of intercity vehicles, both private and for hire, but, it should be noted that urben services of these vehicles are necessarily included. The operations of vehicles classed as farm and urban are described in the annul Motor Transport Treffic reports but are excluded from this publication.

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

For purposes of comparison with other modes of transport, the Railway Freight Comodity Statistics Classification has been generally followed (see Appendix 1). However, where sufficient descriptive detail was not reported for particular item it was necessary to assign it to N.O.S. (not otherwise specified) class. Also, mixed trucklosds of goods which were within the stme main comodity group, such as agricultural products, have been included with "other agricultural products". However, when the comodities reported for a mixed truckload belonged to more than one of the five main comodity groups, they have been assigned to the "N.O.S. general freight" group. Therefore, the totals shown for individual comodities are understated in proportion to the mount of that comodity which, of necessity, was assigned to one of these general classes.

The results of the provincial semple surveys were expanded to represent the estimeted 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 reliable basis for determining the comodities to be shown separately. (However, if any specific comodity was not shown separately it does not follow that the tonnage was automatically less than 100,000 tons.) Three comodities: coal, fuel wood and passenger autom mobiles have been added to the list of commodities for this fourth quarter because the connage of these goods was over the 100,000 ton minimum. In two ceses, the grouping of comodities has been revised. Lubricating oils and greases have been included with Petroleum Products, Refined, N. O.S. and Beverages have been expanded to include Railway Commodity Class numhers 745 to 751 . For purposes of comparison and continuity all other comodities shown individually in the first report of this series have been retalned evea though the tonnage in same instances dropped below 100,000 tons.

Because of the method of selection, it has been possible to show more comodities individually for the for hire vehicles In tables 1 to 3 than for the private intercity trucks in tables 4 to 6 . All other comodities not listed separately have been included in either the "other" figures of the five main comodity groups or in the N.O.S. general freight as previously explained.

Weight of goods carried, wiles 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 smpling error. As time has not permitted a study of the reliability of the detailed information, the dats should be used with caution.

## Glossary of Terms

Average diatance per ton - average distance each ton was carried. Net ton miles divided by the total weight of goods carried.
Average weight cartied per truck - total net ton miles performed divided by milea travelled with load.
For hire whicles - those vehicles (comon and contract) which were operated for compensation and, in most provinces, were identified by distinct series of licence plate numbers, especially for public service vehicles.

Net ton wiles - everage weight of goods curried per trip multiplied by the number of loaded miles.
N.O.S. - not otherwise specified. (As result of insufficient descriptive detail for some of the cormodities recarded in the questionnsires, it has been necessary to assign these comodities to the N, 0.5 . classes rather than to a more specific cless.)

Private intercity vehicles - privately owaed trucks (both intercity and rural) which were operated beyond urban areas and were not used directly in connection with farm operations.
Height of goods carried - Total weight of goods loaded on the vehicles.

## For Hire Truck

In the fourth quarter of 1959, for hire trucks carried an estimated 47,297,000 tons of goods compared with $50,279,000$ tons in the third quarter, decrease of 6 per cent. The average weight carried per truck remained at 10 tons and the average distance per ton was approximately 60 wiles for both quarters. However, the net ton miles for these vehicles declined 10 per cent to $2,592,293,000$ from $2,887,248,000$. The reveaue received for the transportation of goods decreased 6 per cent to $\$ 181,454,000 \mathrm{from} \$ 193,026,000$ but the revenue per ton mile increased to 7.0 cents from 6.7 cents.

For trips over 50 wiles manufactures and miscellaneous products accounted for 52 per cent of the weight of goods carried, 47 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 fourth quarter of 1959, carried an estimated $39,493,000$ tons of goods compared with $46,689,000$ tons in the third quarter, decresse of 15 per cent. The average weight of goods casried per truck remained at 4 tons but the average distance per ton increased to approximately 30 miles from 20 wiles in the previous quarter. The net ton miles for these vehicles declined 8 per cent to $983,215,000$ from $1,065,952,000$.

For tripm over 50 miles, manufactures and miscellaneous products accounted for 63 per cent of the weight of goods carried and 59 per cent of the net ton miles performed by these private intercity trucks.

Table 1. Total For Hire Truck Traffic

| Commodities | Weight of goods carried | Average weight carried | Miles travelled with losd | Net tur miles | Average distance per ton | Revenue | Revenue per ton mil. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 000 tons | tons | ${ }^{1} 000$ | '000 | miles | \$ 000 | 7 |
| Grain | 337 | 11 | 1,600 | 17,114 | 50 | 867 | 5.1 |
| Mill products | 65 | 11 | 640 | 6,815 | 100 | 349 | 5.1 |
| Fruit | 73 | 13 | 1,054 | 13,375 | 180 | 477 | 3.6 |
| Vegetables | 104 | 14 | 1,304 | 18,670 | 180 | 620 | 3.3 |
| Other agricultural products | 250 | 14 | 3,254 | 46,275 | 190 | 1,722 | 3.7 |
| Total aricultural products | 829 | 13 | 7,852 | 102,249 | 120 | 4,035 | 3.9 |
| Animals and animal products: |  |  |  |  |  |  |  |
| Live animals and poultry. | 24.4 | 6 | 4,739 | 29,646 | 120 | 2,420 | 8.2 |
| Meats and dressed poultry | 164 | 12 | 9,646 | 112,053 | 690 | 4,013 | 3.6 |
| Dairy products | 806 | 4 | 9,268 | 38,513 | 40 | 4,134 | 10.7 |
| other animals and animal producta | 345 | 8 | 7,373 | 58,521 | 170 | 3,312 | 5.7 |
| Total antmals and mimal products | 1,619 | 8 | 31,026 | 238,733 | 150 | 13,879 | 5.8 |
| Mine products: |  |  |  |  |  |  |  |
| Coal | 1,169 | 10 | 1,235 | 12,216 | 10 | 1,108 | 9.1 |
| Gravel and sand, N.O.S. | 15,516 | 9 | 11,594 | 101,621 | 10 | 7,869 | 7.7 |
| Stone and rock | 2,163 | 11 | 2,346 | 26,632 | 10 | 1,931 | 7.2 |
| Asphalt | 1,242 | 13 | 1,877 | 24,549 | 20 | 1,359 | 5.5 |
| Other mine products | 6,259 | 12 | 7,595 | 91,623 | 20 | 4,985 | 5.4 |
| Total mine products | 26,349 | 10 | 24,647 | 256,641 | 10 | 17,25: | 6.7 |
| Forest products: |  |  |  |  |  |  |  |
| Loge, butts and bolts . | 149 | 17 | 280 | 4,835 | 30 | 443 | 3.3 |
| Lumber, shingles and lath | 472 | 12 | 2,744 | 33,028 | 70 | 2,158 | 0.3 |
| other forest products ... | 822 | 12 | 2,894 | 34,693 | 40 | 1,940 | 5.6 |
| Total forest products | 1,443 | 12 | 5,918 | 72,556 | 50 | 4,541 | 6.3 |
| Manufactures and miscellaneous: |  |  |  |  |  |  |  |
| Gesoline | 281 | 11 | 2,116 | 22,895 | 80 | 1,389 | 6.1 |
| Tuel, road and petroleum residual olls, N.O.S. | 769 | 13 | 2,683 | 36,012 | 50 | 2,016 | 3.6 |
| Petroleum products, refined, N.O.S. ........ | 697 | 12 | 5,182 | 61,548 | 90 | 3,631 | 5.9 |
| Chemicals .................................. | 426 | 17 | 3,180 | 54,311 | 130 | 2,691 | 5.0 |
| Monufactured iron and steel | 591 | 16 | 4,037 | 64,140 | 110 | 3,984 | 6.2 |
| Machinery and machines, N.O.S. .............. | 420 | 10 | 2,028 | 20.072 | 50 | 1,859 | 9.3 |
| Autumobiles, passenger ...... | 175 | 9 | 6,973 | 62,062 | 360 | 4,257 | 6.9 |
| Vehicle parts, N.O.S. | 61 | 7 | 1,543 | 11,130 | 180 | 1,117 | 10.0 |
| Cement | 799 | 17 | 2,946 | 50,325 | 60 | 2,236 | 4.4 |
| Brick, common | 131 | 11 | 703 | 7,505 | 60 | 430 | 5.7 |
| Brick, N.O.S. and building tile | 130 | 11 | 751 | \%,396 | 70 | 454 | 5.4 |
| Artificial stone, N.O.S. | 218 | 13 | 615 | 7,827 | 40 | 595 | 7.6 |
| Ifme, N.0.s. . . . . . . . . | 55 | 16 | 196 | 3,169 | 60 | 227 | 7.2 |
| Paper and paper articles | 471 | 13 | 5,144 | 67,975 | 140 | 3,532 | 5.2 |
| Building materiels, N.O.S. | 275 | 10 | 2,921 | 28,158 | 100 | 1,883 | 6.7 |
| Beverages .... | 331 | 14 | 3,598 | 51,632 | 160 | 2,282 | 4.4 |
| Food products . . . . . . . . . . . . . . . . . . . . . . . . . | 643 | 10 | 8,840 | 89,010 | 140 | 5,355 | 6.0 |
| Feed, animal and poultry, N.O.S. ............ | 215 | $?$ | 1,645 | 11,819 | 60 | 832 45.538 | 7.0 |
| Other manufactures and miscellaneous ........ | 4,604 | 8 | 62,109 | 487,027 | 110 | 45,538 | 9.4 |
| Total manufacturers and miscellaneous ...... | 11,292 | 10 | 117,210 | 1,145,013 | 100 | 84,308 | 7.4 |
| N.O.S. genersl freight: | 5,765 | 10 | 75,047 | 777,101 | 140 | 57,439 | 7. |
| GRAND TOTAL | 47,297 | 10 | 261,700 | 2,592,293 | 60 | 181,454 | 7.0 |

Table 2. For Hire Truck Traffic - Trips up to and Including So Miles


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

| Commoditles | Weight of goods carried | Average weight carried | Miles travelled with load | Net ton miles | Average distance per ton | Revenue | Revenue per ton mile |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | ${ }^{1} 000$ tons | tons | ${ }^{1} 000$ | ${ }^{1} 000$ | miles | \$1000 | 7 |
| Grain | 98 | 12 | 1,059 | 12,853 | 130 | 481 | 3.7 |
| Mill products | 29 | 13 | 488 | 6,180 | 210 | 208 | 3.4 |
| Fruit | 46 | 13 | 971 | 12,733 | 280 | 418 | 3.3 |
| Vegetables | 54 | 15 | 1,181 | 17,653 | 320 | 522 | 3.0 |
| Other agricultural products | 124 | 15 | 2,937 | 42,951 | 350 | 1,303 | 3.0 |
| Total agricultural products | 351 | 14 | 6,636 | 92,370 | 260 | 2,932 | 3.2 |
| Animals and snimal products: |  |  |  |  |  |  |  |
| Live animals and poultry | 181 | 6 | 4,366 | 28,059 | 160 | 2,191 | 7.8 |
| Meats and dressed poultry | 140 | 12 | 9,419 | 111,421 | 800 | 3,842 | 3.4 |
| Dairy products . ................. | 52 | 6 | 1,335 | 8,267 | 180 | 627 | 7.6 |
| other animals and animal products | 211 | 9 | 6,494 | 55,683 | 260 | 2,815 | 5.1 |
| Total animals and animel products | 584 | 9 | 21,614 | 203,430 | 350 | 9,475 | 4.7 |
| Mine products: |  |  |  |  |  |  |  |
| Cos 1 (1) | - | - | - | - | - | - | - |
| Gravel and sand, N.O.S. (1) | - | - | - | - | - | - | - |
| Stone and rock (1) | - | - | - | - | - | - | - |
| Asphalt | 246 | 17 | 898 | 15,513 | 60 | 646 | 4.2 |
| Other mine products | 368 | 15 | 3,037 | 45,811 | 130 | 1,710 | 3.7 |
| Total mine products | 614 | 16 | 3,935 | 61,324 | 100 | 2,3,6 | 3.8 |
| Forest products: |  |  |  |  |  |  |  |
| Logs, butts and bolts. | 21 | 17 | 120 | 2,025 | 100 | 139 | 5.9 |
| Lumber, shingles and lath | 178 | 12 | 2,166 | 26,643 | 150 | 1,350 | 5.1 |
| Other forest products | 153 | 12 | 2,132 | 26,372 | 170 | 1,098 | 4.2 |
| Totel forest products | 352 | 12 | 4,418 | 55,040 | 160 | 2,587 | 4.7 |
| Manufactures and miscellaneous: |  |  |  |  |  |  |  |
| Gesoline | 144 | 12 | 1,689 | 19,761 | 140 | 1,037 | 5.3 |
| Fuel, road and petroleum residual oils, N.O.S. | 165 | 15 | 1,744 | 25,759 | 160 | 1,178 | 4.6 |
| Petroleum products, refined, N.O.S. | 279 | 13 | 4,085 | 52,022 | 190 | 2,513 | 4.8 |
| Chemicals | 253 | 18 | 2,883 | 51,561 | 200 | 2,384 | 4.6 |
| Manufactured 1ron and steel | 276 | 16 | 3,472 | 55,124 | 200 | 3,153 | 5.7 |
| Machinery and machines, N.O.S. | 129 | 10 | 1,472 | 15,125 | 120 | 1,270 | 8.4 |
| Automobiles, passenger ....... | 133 | 9 | 6,802 | 60,690 | 460 | 3,806 | 6.3 |
| Vehicle parts, N.O.S. | 50 | 9 | 1,269 | 10,845 | 220 | 914 | 8.4 |
| Cement ..... | 294 | 17 | 2,367 | 41,150 | 140 | 1,635 | 4.0 |
| Brick, common | 27 | 13 | 382 | 4,816 | 180 | 178 | 3.7 |
| Brick, N.O.S, and building tile | 61 | 12 | 618 | 7,166 | 120 | 297 | 4.1 |
| Artificial stone, N.O.S. ... | 28 | 16 | 304 | 4,728 | 170 | 236 | 5.0 |
| Lime, N.O.S. | 13 | 19 | 88 | 1,700 | 130 | 77 | 4.5 |
| Paper and paper articles ..................... | 289 | 14 | 4,600 | 63,318 | 220 | 2,929 | 4.6 |
| Building matertals, N.O.S. ..................... | 162 | 12 | 2,183 | 25,710 | 160 | 1,369 | 5.3 |
| Beverages . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 260 | 15 | 3,342 | 49,756 | 190 | 2,033 | 4.1 |
| Food products .................................... | 344 | 13 | 5,958 | 79,038 | 230 | 3,822 | 4.8 |
| Feed, animal and poultry, N.O.S. ............ | $\begin{array}{r}86 \\ \hline 1.677\end{array}$ | 9 | 1,006 | 8,939 433,932 | 100 | $\begin{array}{r}390 \\ \hline 8.55\end{array}$ | 4.4 |
| Other manufactures and miscellaneous ......... | 1,677 | 10 | 41,954 | 433,932 | 260 | 28,255 | 6.5 |
| Total manufactures and miscellaneous ...... | 4,670 | 12 | 86,218 | 1,011,140 | 220 | 57,476 | 5.7 |
| N.O.S . general freight: | 2,430 | 12 | 59,987 | 714,915 | 290 | 38,822 | 5.4 |
| GRAND TOTAL | 9.001 | 12 | 182.808 | 2,138,219 | 230 | 113,648 | 5.3 |

[^0]TABLE 4. Total Private Intercity Truck Traffic

| Ommodities | Weight of goods carried | Average <br> weight <br> carried | Miles travelled with lond | Net ton miles | Average distance per ton |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | T000 Eons | tons | T000 | 1000 | miles |
| Grain | 211 | 11 | 1,159 | 12,581 | 60 |
| Mill products | 58 | 8 | 246 | 1,853 | 30 |
| Fruit | 104 | 9 | 1,038 | 9,342 | 90 |
| Vegetables | 98 | 6 | 1,220 | 7,086 | 70 |
| Other agricultural products | 230 | 7 | 3,116 | 21,379 | 90 |
| Total agrtultural products | 701 | 8 | 6,779 | 52,241 | 80 |
| Animals and animel products: |  |  |  |  |  |
| Live animals and poultry | 163 | 5 | 2,822 | 13,857 | 90 |
| Meats and dressed poultry | 81 | 4 | 2,357 | 9,504 | 120 |
| Dairy products .......... | 628 | 3 | 9,474 | 29,099 | 50 |
| Other animals and animal products | 248 | 2 | 5,899 | 14,588 | 60 |
| Total animals and animal producta | 1,120 | 3 | 20,552 | 67,048 | 60 |
| Mine products: |  |  |  |  |  |
| Coal | 489 | 4 | 1,815 | 7,287 | 20 |
| Gravel and sand, N.O.S. | 14,339 | 9 | 13,046 | 121,153 | 10 |
| Stone and rock ... | 2,955 | 11 | 3,876 | 43,792 | 20 |
| Asphalt .... | 606 | 11 | 775 | 8,430 | 10 |
| ocher mine producta | 3,578 | 9 | 5,026 | 47,484 | 10 |
| Total mine products | 21,96? | 9 | 24,538 | 228,146 | 10 |
| Forest products: |  |  |  |  |  |
| Logs, butts and bolts | 872 | 10 | 1,994 | 20,087 | 20 |
| Wood, fue 1 ......... | 185 | 5 | 803 | 4,370 | 20 |
| Pulpwood | 728 | 11 | 2,299 | 24,298 | 30 |
| Lumber, shingles and 1sth | 598 | 9 | 3,882 | 35,589 | 60 |
| Other forest products | 480 | 6 | 4,208 | 24,849 | 50 |
| Total forest products | 2,863 | 8 | 13,186 | 109,193 | 40 |
| Manufactures and miscellaneous: |  |  |  |  |  |
| Gasoline | 1,495 | 8 | 6,207 | 46,564 | 30 |
| Fuel, road and petroleum residual oils, N.O.S. ....... | 1,160 | 9 | 4,060 | 35,164 | 30 |
| Petroleum products refined, N.O.S. ..................... | 2,307 | ${ }^{6}$ | 10,467 | 64,632 | 30 |
| Chemicals | 99 | 11 | 374 | 8,674 | 90 |
| Manufactured iron and steel. | 75 | 6 | 730 | 4,255 | 60 |
| Machinery and machines, N.O.S. | 261 | 5 | 3,906 | 18,015 | 70 |
| Cement . . . . . . . . . . . . . . . . . . | 1,238 | 11 | 2,144 | 23,795 | 20 |
| Paper and paper articles ............................... | 94 | 2 | 3,957 | 9,069 | 100 |
| Building materials, N.0.S. ............................. | 395 | 2 | 11,084 | 20,390 | 50 |
| Beverages . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 698 | 6 | 6,675 | 37,242 | 50 |
| Food products ............................................. | 886 | $\frac{1}{5}$ | 43,689 | 62,363 | 70 |
| Feed, snimal and poultry, N.O.S. ........................ | 530 2,509 | 5 | 3,986 72,481 | 21,055 127,568 | 40 50 |
| 0ther manufactures and tiscellaneous .................. | 2,509 | 2 | 72,481 | 127,568 | 50 |
| Total manufactures and miscellaneous | 11,747 | 3 | 170,160 | 478,786 | 40 |
| N.O.S. general freight: | 1,095 | 3 | 14,604 | 47,801 | 40 |
| GRAND TOTAL . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 39,493 | 4 | 249,819 | 983,215 | 30 |

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


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


[^1]
## APPENDIX I

For purposes of comparison individual commodities or comodity groups listed in this report are shown below along with the equivalent Railway Freight Comodity Statistics Classification numbers. This is a combination of the commodities listed in both the for hire and private inter city cables. As previously explained, coal, fuel wood and passenger automobiles have been added to the list and two commodity groupings Petroleum products, refined, N.O.S and Beverages have been revised to include additional classes.
$\left.\begin{array}{c}\text { Railway comodity } \\ \text { class numbers }\end{array}\right]$ Comodities

|  | 1-13 |
| :---: | :---: |
|  | 15-23 |
|  | 49-73 |
|  | 77-95 |
| Balance of | 1-199 |

201-213. 223
215-219, 225
227-233
Balance of 201-299

301-305
327
329
339
Belance of 301-399

## 401

405
409
411
Balance of 401-499
501
503
$505-507$
$527-533$
583
595
613
623
$633-635$
637
639
643
645
$655-669$
$671-679$
$745-751$
$755-765$
773

Balance of 501-799

## (none)

```
Agricultural products
    Grain
    M111 products
    Fruit
    Vegetables
    Other agricultural products
Animals and animal products
    Live animals and poultry
    Meats and dressed poultry
    Dairy products
    Other mimels and snimel products
```


## Mine products

Coal
Gravel and sarst, N.O.S.
Stone and rock
Asphalt
Other mine prochicts

## Forest products

Logs, butts and bolts
Wood, fuel
Pulpwood
Lumber, shingles and lath
Other forest products

## Manufactures and miscellaneous

## Gasoline

Fuel, road and petroleum residuel ofls, N.O.S.
Petroleum products refined, N.O.S.
Chemicels
Manufactured 1 ron and steel
Machinery and machines, N.O.S.
Automobiles, passenger
Vehicle parts, N.O.S.
Cement
Brick, common
Brick, N.O.S. and building tile
Artificial stome, N.O.S.
Lime, N.O.S.
Paper and paper articles
Building materiala, N,O.S.
Beverages
Food products
Feed, animal and poultry, N.O.S.
Other manufactured products
N.O.S. general freight


[^0]:    (1) The sample did not provide sufficient number of trips to produce relimble statistics for these commodities

[^1]:    (1) The sample did not provide sufficient number of trips to produce reliable statistics for these comodities

