

To present some idea of the extent to which this abnormal traffic may be concentrated over a short period the results of a further count taken on the same section of highway on a recent race day reveal that 1,604 motor-vehicles passed in the space of a little more than two hours. This was at the rate of 9.6 vehicles per minute, or equivalent to a daily volume of 13,749 vehicles.

During this period there was a peak interval of twenty-six minutes when 559 vehicles passed the tally point—*i.e.*, at the rate of 21.5 per minute, or equal to a daily volume of 30,960. During the densest one-minute interval thirty-three vehicles were recorded, this probably representing about the maximum traffic-capacity of the road.

(f) ANALYSIS OF TRAFFIC, BY TYPE OF VEHICLE.

A further analysis discloses the relative use of the main highways by different types of motor-vehicles.

Table G.—Analysis of the Vehicle-mileage according to Type of Motor-vehicle.

Type of Vehicle.	Annual Vehicle-mileage and Percentage of Total.					
	North Island.		South Island.		New Zealand.	
	Vehicle-miles.	Percent-age.	Vehicle-miles.	Percent-age.	Vehicle-miles.	Percent-age.
Private cars	255,005,060	67.57	146,249,295	67.62	401,254,355	67.59
Trade motors—						
Under 2 tons ..	31,893,700	8.45	20,783,100	9.61	52,676,800	8.87
2 to 4½ tons ..	29,146,710	7.72	11,803,735	5.46	40,950,445	6.90
4½ to 6½ tons ..	23,144,285	6.13	12,039,890	5.57	35,184,175	5.93
Over 6½ tons ..	4,077,415	1.08	2,716,695	1.26	6,794,110	1.14
Total trade motors	88,262,110	23.38	47,343,420	21.90	135,605,530	22.84
Public passenger vehicles—						
Service cars ..	8,116,870	2.15	4,514,320	2.09	12,631,190	2.13
Omnibuses ..	2,825,830	0.75	1,826,460	0.84	4,652,290	0.78
Total public passenger-vehicles	10,942,700	2.90	6,340,780	2.93	17,283,480	2.91
Motor-cycles ..	20,145,445	5.34	13,540,770	6.26	33,686,215	5.67
Trailers	2,126,855	0.56	2,047,650	0.95	4,174,505	0.70
Miscellaneous ..	957,760	0.25	745,330	0.34	1,703,090	0.29
All motor-vehicles	377,439,930	100.00	216,267,245	100.00	593,707,175	100.00

This table also affords comparison between the two Islands of the relative use by each type of vehicle. Thus in respect of—

- (i) Private cars: The North Island highways carried 63.55 per cent. and the South 36.45 per cent.
 - (ii) Light trucks: The North Island highways carried 60.55 per cent. and the South 39.45 per cent.
 - (iii) Heavy trucks: The North Island highways carried 67.97 per cent. and the South 32.03 per cent.
 - (iv) Service cars: The North Island highways carried 64.26 per cent. and the South 35.74 per cent.
 - (v) Omnibuses: The North Island highways carried 60.74 per cent. and the South 39.26 per cent.
 - (vi) Motor-cycles: The North Island highways carried 59.80 per cent. and the South 40.20 per cent.
 - (vii) Trailers: The North Island highways carried 50.95 per cent. and the South 49.05 per cent.
 - (viii) Miscellaneous vehicles: The North Island highways carried 56.24 per cent. and the South 43.76 per cent.
- Of all motor-vehicles: The North Island highways carried 63.57 per cent. and the South 36.43 per cent.

The use of the main-highway system by different types of motor-vehicles is compared in Fig. 7 with the proportions of each type registered in the Dominion at the end of 1934.