



**Central Statistics Office**  
An Phríomh-Oifig Staidrimh

# Road Freight Transport Survey

## 2003

Published by the Stationery Office, Dublin, Ireland.

To be purchased from the:

Central Statistics Office, Information Section, Skehard Road, Cork,

Government Publications Sales Office, Sun Alliance House,  
Molesworth Street, Dublin 2,

or through any bookseller.

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ISSN 0790-9934

ISBN 0-7557-1852-6

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## Note

Rounding: Due to the fact that individual figures have been rounded independently there may be slight discrepancies between the sum of the constituent items and the totals shown.

# **Chapter 1**

## **Introduction**



## Introduction

This report contains the results of the “National Survey of Transport of Goods by Road” carried out for the year 2003. The survey was conducted as part of an EU-wide project in accordance with Council Regulation (EC) 1172/98 on statistical returns in respect of the carriage of goods by road.

During the year information was collected concerning one week’s transport activity for a random sample of goods vehicles. The sample was spread evenly over each week in the year. The sample data has been grossed to the level of the national fleet to provide estimates for road freight transport activity by all goods vehicles in the survey year.

The CSO wishes to place on record its thanks to and appreciation of the co-operation received from the vehicle owners who responded to the survey. The survey questionnaire and instructions are shown in Appendix D.

The principal measures used in this report to assess transport activity are:

- (a) the weight of goods carried (given in tonnes);  
and
- (b) the quantity of work done (given in tonne-kilometres). (*See definitions used, page 41*).

## Scope of Survey

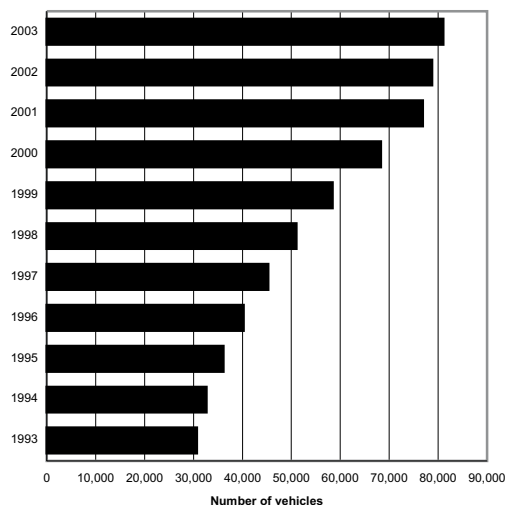
The report covers the survey period beginning on 1 January 2003 and ending on 31 December 2003. Irish registered vehicles belonging to the motor taxation class *goods vehicles with an unladen weight of 2 tonnes and over* came within the scope of the survey.

No other vehicles were covered. In particular this meant that vehicles in other motor taxation classes such as agricultural tractors, general haulage tractors, dumpers and exempt vehicles (i.e. vehicles exempt from liability to pay road tax which include state owned, diplomatic, fire services or disabled drivers) were not included.

All activity of goods vehicles within the scope of the survey engaged in the carriage of goods, either on own account or for hire or reward, on the public road was covered. Excluded, therefore, was activity such as site work off the public road or work of a mainly service nature (e.g. carriage of personnel to or from places of work).

## Goods Vehicle Activity 2003

**Chart 1: Number of goods vehicles with unladen weight of 2 tonnes and over by year**



In 2003, Irish registered goods vehicles transported a total of over 259 million tonnes of goods by road. This represents an increase of 13% on the previous year and an increase of 221% over the last ten years. Activity in terms of tonne-kilometres increased by 10% from 14,448 million in 2002 to 15,898 million in 2003. There was an increase of 212% in the figure for tonne-kilometres over the ten-year period from 1993 to 2003. The figure for vehicle kilometres travelled by Irish registered goods vehicles increased considerably also. A total of 2,124 million vehicle kilometres were travelled in 2003, an increase of almost 8% on the 2002 figure of 1,973 million and an increase of 163% on the 1993 figure.

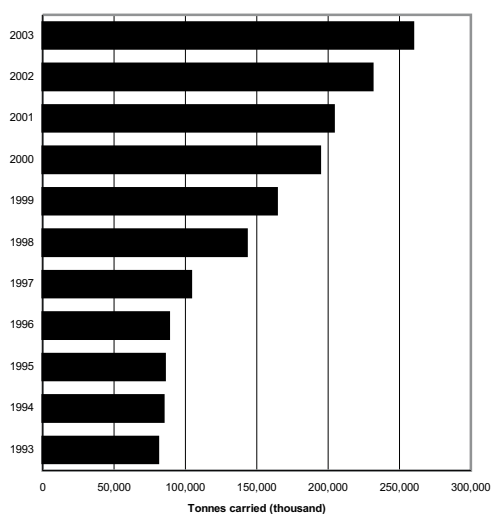
The average number of goods vehicles with an unladen weight of 2 tonnes and over, under current license during 2003 was 81,024, representing an increase of about 3% on the 2002 figure. The fleet size increased by 164% since 1993. These goods vehicles completed approximately 21 million loaded journeys in 2003, 13% more than in 2002 and 160% more than in 1993.

Table A.1 below shows a record of the main figures for the years 1993 to 2003. (See Charts 1 and 2).

**Table A.1**

Year	Tonne-Kilometres <i>million</i>	Tonnes Carried <i>thousand</i>	Vehicle Kilometres <i>million</i>	Average Number of Vehicles
1993	5,095	80,761	807	30,669
1994	5,258	84,587	826	32,669
1995	5,493	85,317	974	36,107
1996	6,316	88,322	1,175	40,255
1997	6,998	103,836	1,208	45,256
1998	8,203	142,911	1,344	51,037
1999	10,275	163,972	1,452	58,388
2000	12,348	194,135	1,657	68,278
2001	12,405	203,849	1,668	76,875
2002	14,448	230,591	1,973	78,753
2003	15,898	259,465	2,124	81,024

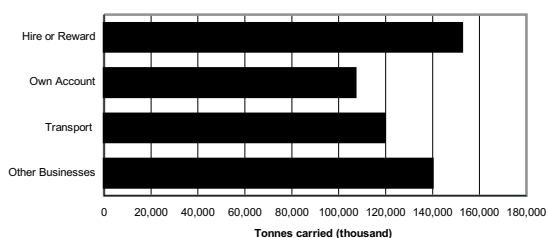
**Chart 2: Weight of goods carried by year**





## Main use of Vehicle

Chart 3: Weight of goods carried



Vehicles used mainly for hire or reward transport of goods were responsible for 59% of the total weight of goods carried in 2003. These vehicles also performed 72% of the total activity in terms of tonne-kilometres and travelled 58% of total vehicle kilometres. Given that these vehicles accounted for only 29% of the fleet size, it is clear that they were used more intensively than those vehicles used mainly for own account transport. Of vehicles that were mainly used for hire or reward transport, on average 19% were idle during any one survey week as compared to 25% of vehicles used mainly for own account transport. Vehicles used mainly for hire or reward transport accounted for 35% of all relevant vehicles. (See Tables B.1 and B.2 and Charts 3, 4 and 5).

Table B.1

Main use of Vehicle	Tonne-Kilometres		Tonnes Carried		Vehicle Kilometres	
	<i>million</i>	%	<i>thousand</i>	%	<i>million</i>	%
Hire or Reward	11,394	71.7	152,456	58.8	1,235	58.1
Own Account	4,504	28.3	107,009	41.2	888	41.8
<b>Total</b>	<b>15,898</b>	<b>100.0</b>	<b>259,465</b>	<b>100.0</b>	<b>2,124</b>	<b>100.0</b>

Chart 4: Activity in tonne-kilometres

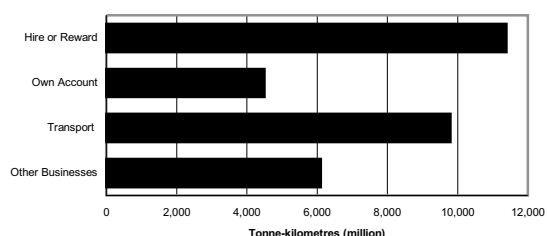


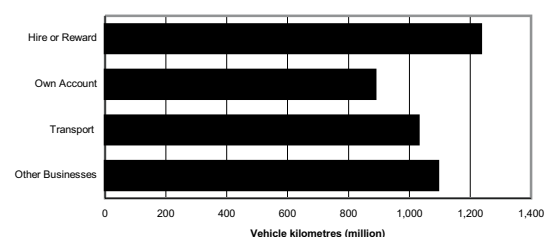
Table B.2

Main use of Vehicle	Number of Vehicles		Relevant Vehicles		Idle Vehicles	
		%		%		%
Hire or Reward	23,582	29.1	22,252	34.9	4,494	23.6
Own Account	57,442	70.9	41,448	65.1	14,527	76.4
<b>Total</b>	<b>81,024</b>	<b>100.0</b>	<b>63,700</b>	<b>100.0</b>	<b>19,020</b>	<b>100.0</b>

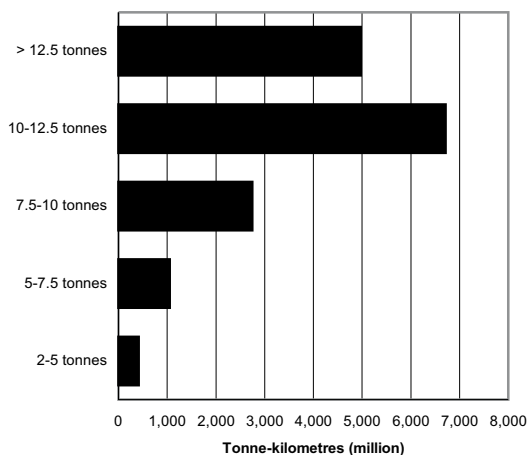
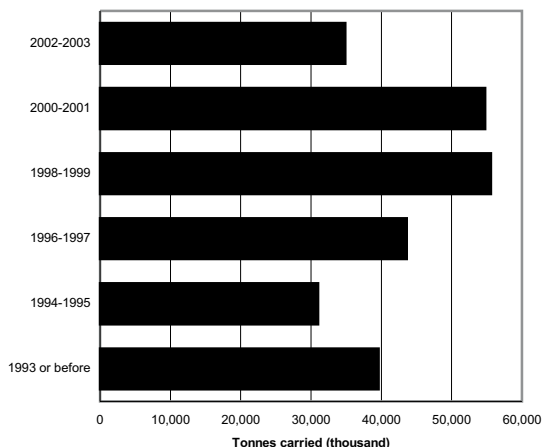
## Business of Owner

In the "Business of Owner" classification, "Transport" covers both licensed hauliers and other hauliers. All activity of vehicles owned by transport businesses was classified to "Transport" even if the vehicle activity was mainly for the own account transport of the business. Likewise, all activity of vehicles owned by non-transport businesses was classified to the "Other" heading even if the vehicle was used for hire or reward.

Chart 5: Vehicle kilometres travelled



Almost 62% of total activity in terms of tonne-kilometres was performed by vehicles owned by transport businesses. These vehicles transported 46% of the total weight of goods carried and travelled 49% of the total vehicle kilometres. Vehicles owned by transport businesses were responsible for just over 36% of all laden journeys. (See Table C.1 and Charts 3, 4 and 5).

**Chart 6: Activity in tonne-kilometres by unladen weight****Chart 7: Weight of goods carried by year of manufacture of vehicle****Table C.1**

Business of owner	Tonne-Kilometres		Tonnes Carried		Vehicle Kilometres		Laden Journeys	
	<i>million</i>	%	<i>thousand</i>	%	<i>million</i>	%	<i>thousand</i>	%
Transport	9,797	61.6	119,529	46.1	1,030	48.5	7,637	36.3
Other	6,101	38.4	139,936	53.9	1,094	51.5	13,382	63.7
<b>Total</b>	<b>15,898</b>	<b>100.0</b>	<b>259,465</b>	<b>100.0</b>	<b>2,124</b>	<b>100.0</b>	<b>21,019</b>	<b>100.0</b>

**Size of Vehicles in Fleet**

It can be seen from the table below that the smallest vehicles, in the “2 to 5 tonnes” unladen weight category, accounted for almost 42% of the vehicle fleet. However such vehicles were responsible for only about 4% of the total weight of goods transported and about 3% of activity in terms of tonne-kilometres. Their share of total vehicle kilometres was larger at 17%. Vehicles in the unladen weight category “10 to 12.5 tonnes” accounted for 18% of the vehicle fleet and had the largest share of activity in terms of tonne-kilometres accounting for over 42% of the total. These vehicles were also responsible for over 31% of total vehicle kilometres travelled and over 43% of total tonnes carried. The largest vehicles, in the category “over 12.5 tonnes” unladen weight, accounted for 11% of the vehicle fleet and transported almost a third of the total weight of goods carried. They travelled 22% of total vehicle kilometres and were responsible for 31% of activity in terms of tonne-kilometres. (See Table D.1 and Chart 6).

**Table D.1**

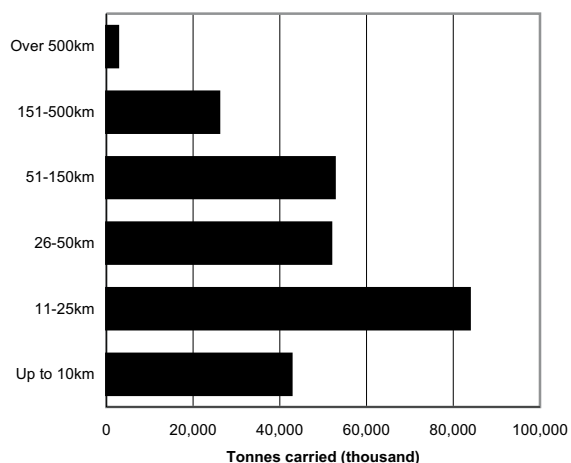
Unladen Weight (tonnes)	Tonne-Kilometres		Tonnes Carried		Vehicle Kilometres		No. of Vehicles	
	<i>million</i>	%	<i>thousand</i>	%	<i>million</i>	%		%
2-5	416	2.6	9,400	3.6	357	16.8	33,764	41.7
5-7.5	1,052	6.6	15,324	5.9	235	11.1	11,177	13.8
7.5-10	2,747	17.3	37,764	14.6	410	19.3	12,953	16.0
10-12.5	6,712	42.2	112,731	43.4	663	31.2	14,509	17.9
Over 12.5	4,971	31.3	84,247	32.5	459	21.6	8,622	10.6
<b>Total</b>	<b>15,898</b>	<b>100.0</b>	<b>259,465</b>	<b>100.0</b>	<b>2,124</b>	<b>100.0</b>	<b>81,024</b>	<b>100.0</b>

**Age of Fleet**

In 2003, vehicles manufactured from 2000 onwards accounted for 28% of the vehicle fleet. These vehicles transported 35% of the total weight of goods carried, travelled 38% of the total vehicle kilometres and were responsible for almost 39% of total activity in terms of tonne-kilometres. The oldest vehicles, those manufactured in 1993 or before, accounted for 29% of the vehicle fleet but were not used as intensively as the newer vehicles. They were responsible for only 9% of total activity in tonne-kilometres. They transported 15% of the total weight of goods carried and travelled 12% of total vehicle kilometres. (See Table E.1 and Chart 7).

**Table E.1**

Year of Manufacture	Tonne-Kilometres		Tonnes Carried		Vehicle Kilometres		No. of Vehicles	
	<i>million</i>	%	<i>thousand</i>	%	<i>million</i>	%		%
2002-2003	2,715	17.1	34,883	13.4	347	16.3	9,944	12.3
2000-2001	3,434	21.6	54,764	21.1	465	21.9	12,794	15.8
1998-1999	3,612	22.7	55,584	21.4	461	21.7	12,771	15.8
1996-1997	2,892	18.2	43,602	16.8	349	16.4	11,282	13.9
1994-1995	1,852	11.6	31,011	12.0	253	11.9	10,461	12.9
1993 or before	1,393	8.8	39,620	15.3	247	11.6	23,773	29.3
<b>Total</b>	<b>15,898</b>	<b>100.0</b>	<b>259,465</b>	<b>100.0</b>	<b>2,124</b>	<b>100.0</b>	<b>81,024</b>	<b>100.0</b>

**Chart 8: Weight of goods carried by length of haul****Length of Haul**

Almost half of the total weight of goods carried in 2003 was transported on journeys of 25 km or less. 43% of total vehicle kilometres were travelled on these short journeys but they accounted for only 10% of total tonne-kilometres. The longest journeys, of 151km or over, accounted for 52% of activity in terms of tonne- kilometres and 32% of vehicle kilometres travelled, but only 11% of the total weight of goods carried. (See Table F.1 and Chart 8).

**Table F.1**

Length of Haul	Tonne-Kilometres		Tonnes Carried		Vehicle Kilometres	
	<i>million</i>	%	<i>thousand</i>	%	<i>million</i>	%
Up to 10 km	227	1.4	42,657	16.4	808	38.0
11 to 25 km	1,343	8.4	83,743	32.3	107	5.0
26 to 50 km	1,800	11.3	51,843	20.0	148	7.0
51 to 150 km	4,311	27.1	52,609	20.3	373	17.6
151 to 500 km	5,643	35.5	25,945	10.0	493	23.2
Over 500 km	2,574	16.2	2,668	1.0	195	9.2
<b>Total</b>	<b>15,898</b>	<b>100.0</b>	<b>259,465</b>	<b>100.0</b>	<b>2,124</b>	<b>100.0</b>

Chart 9: Tonnes Carried by Commodity

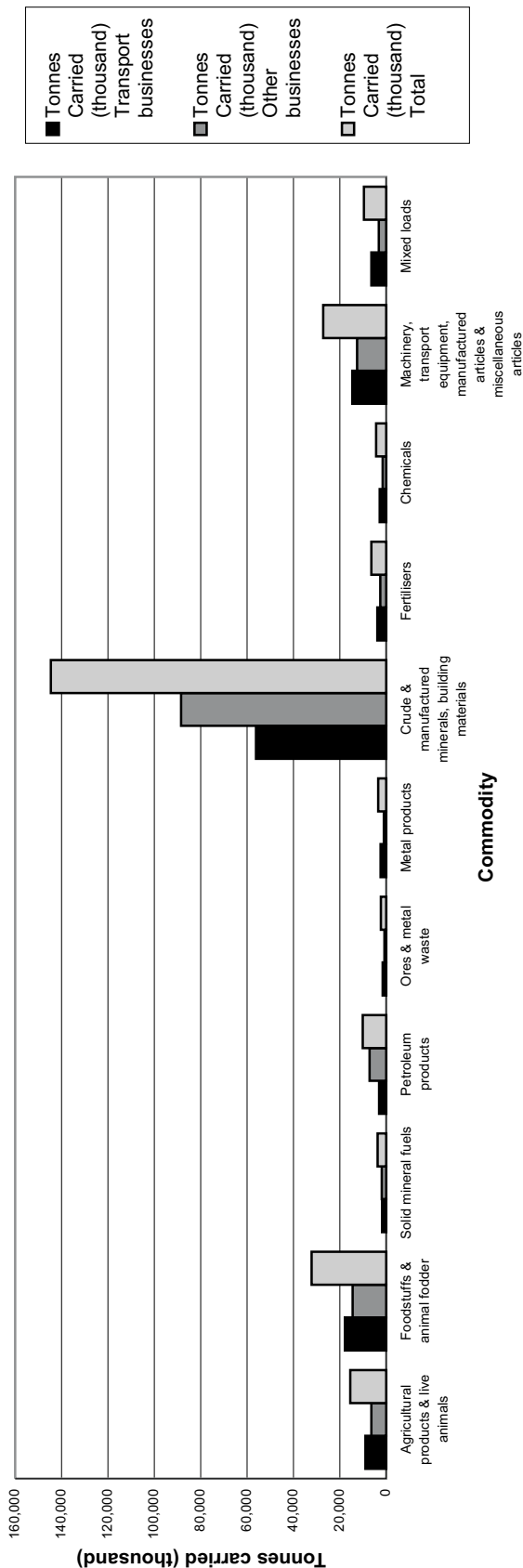
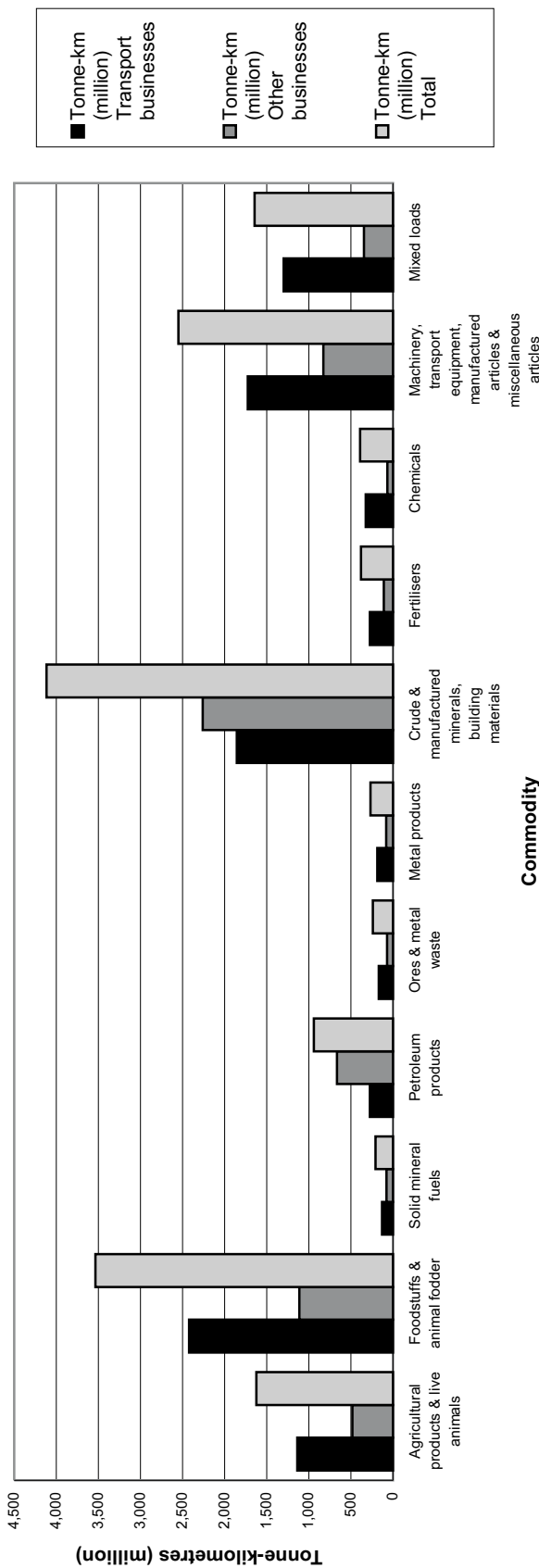


Chart 10: Tonne-Kilometres by Commodity



## Commodity by Business of Owner

The commodity data below is classified according to the chapter headings of the Standard Goods Classification for Transport Statistics of the European Union (NST/R), the composition of which is shown in Appendix C.

**Table G.1**

Commodity	Transport Businesses		Other Businesses		Total	
	Tonne-Kilometres	Tonnes Carried	Tonne-Kilometres	Tonnes Carried	Tonne-Kilometres	Tonnes Carried
	<i>million</i>	<i>thousand</i>	<i>million</i>	<i>thousand</i>	<i>million</i>	<i>thousand</i>
Agricultural Products & Live						
Animals	1,139	9,035	484	6,431	1,623	15,467
Foodstuffs and Animal						
Fodder	2,424	17,757	1,112	14,433	3,535	32,190
Solid Mineral Fuels	130	1,803	77	1,888	207	3,691
Petroleum Products	274	3,040	665	7,116	939	10,156
Ores and Metal Waste	170	1,480	71	766	240	2,246
Metal Products	186	2,446	81	1,024	267	3,470
Crude and Manufactured						
Minerals, Building Materials	1,854	56,201	2,262	88,447	4,116	144,648
Fertilisers	273	3,896	109	2,509	382	6,405
Chemicals	323	2,850	68	1,511	391	4,361
Machinery, Transport						
Equipment, Manufactured						
Articles & Miscellaneous						
Articles	1,725	14,658	826	12,580	2,551	27,238
Mixed Loads	1,300	6,363	346	3,230	1,646	9,593
<b>Total</b>	<b>9,797</b>	<b>119,529</b>	<b>6,101</b>	<b>139,936</b>	<b>15,898</b>	<b>259,465</b>

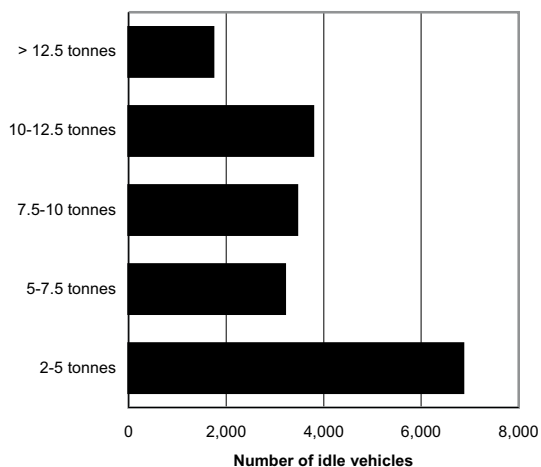
Over half of the total weight of goods carried were in the group *Crude and Manufactured Minerals, Building Materials*. This group accounted for 47% of the weight of goods carried by vehicles owned by transport businesses and 63% of the weight of goods carried by vehicles owned by other businesses. It was also the largest group in terms of tonne-kilometres but with a much smaller 26% share of the total. The second largest group in terms of tonne-kilometres was *Foodstuffs and Animal Fodder*, which accounted for 22% of total tonne-kilometres. This group accounted for only 12% of the total weight of goods carried. (See Table G.1 and Charts 9 and 10).

## Vehicle Use

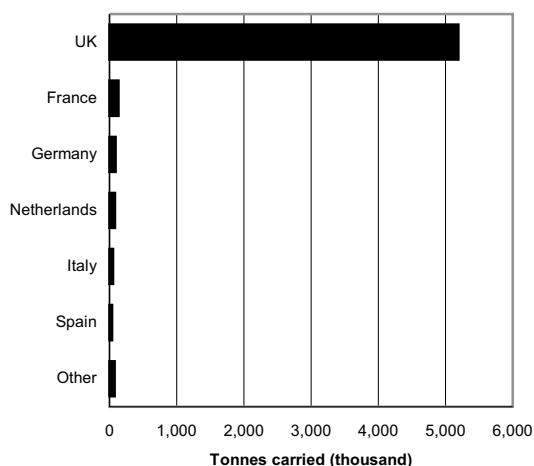
Vehicles were idle for various reasons such as being under repair, no work being available, awaiting resale at vehicle dealers, holidays, etc. Furthermore, some of the old vehicles in the fleet are retained by their owners but used infrequently.

Some vehicles, though taxed as *goods vehicles*, are used as passenger vehicles or for service type work. These vehicles are classified as non-relevant and are not included in the survey's activity estimates. They are, however, included in all fleet analyses.

**Chart 11: Number of idle vehicles by unladen weight**



**Chart 12: Weight of goods transported to Ireland by Irish registered goods vehicles by country of origin**



**Table H.1**

Unladen Weight	Number of Vehicles	Number of Idle Vehicles	Number of Non-Relevant Vehicles
2-5 tonnes	33,764	6,856	12,799
5-7.5 tonnes	11,177	3,203	1,712
7.5-10 tonnes	12,953	3,452	1,358
10-12.5 tonnes	14,509	3,779	987
Over 12.5 tonnes	8,622	1,730	468
<b>Total</b>	<b>81,024</b>	<b>19,020</b>	<b>17,324</b>

On average, 23% of the vehicle fleet was idle in any one week during the year. This percentage was largest at almost 29% for vehicles in the unladen weight category “5 to 7.5 tonnes” and smallest at 20% for vehicles in the unladen weight category “Over 12.5 tonnes”. Vehicles regarded as non-relevant accounted for 21% of the fleet. The unladen weight category “2 to 5 tonnes” had the highest percentage of non-relevant vehicles at 38% while only 5% of vehicles in the unladen weight category “Over 12.5 tonnes” were non-relevant. (See Table H.1 and Chart 11).

**International Transport**

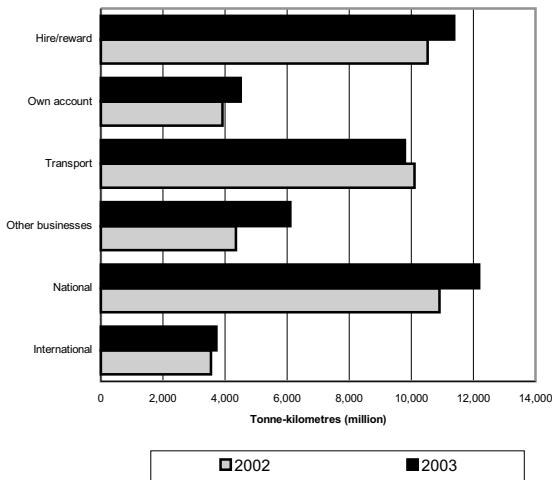
Table I.1 below shows the top countries to which goods were brought from Ireland and from which goods were brought to Ireland by Irish registered goods vehicles. As would be expected the largest share of our international transport is with the UK. Irish goods vehicles transported 5,190 thousand tonnes of goods from the UK to Ireland and 4,225 thousand tonnes of goods to the UK from Ireland. Figures for the UK include transport to and from Northern Ireland. Goods received from the UK accounted for almost 92% of all tonnage received from abroad and goods dispatched to the UK accounted for almost 90% of goods transported abroad by Irish goods vehicles. (See Table I.1 and Chart 12).

**Table I.1**

Country	Tonnage Received		Tonnage Dispatched	
	<i>thousand</i>	%	<i>thousand</i>	%
United Kingdom	5,190	91.6	4,225	89.5
France	134	2.4	137	2.9
Germany	91	1.6	103	2.2
Netherlands	83	1.5	51	1.1
Italy	54	1.0	59	1.2
Spain	40	0.7	39	0.8
Other Countries	74	1.3	109	2.3
<b>Total</b>	<b>5,666</b>	<b>100.0</b>	<b>4,723</b>	<b>100.0</b>

## Comparison with 2002 Results

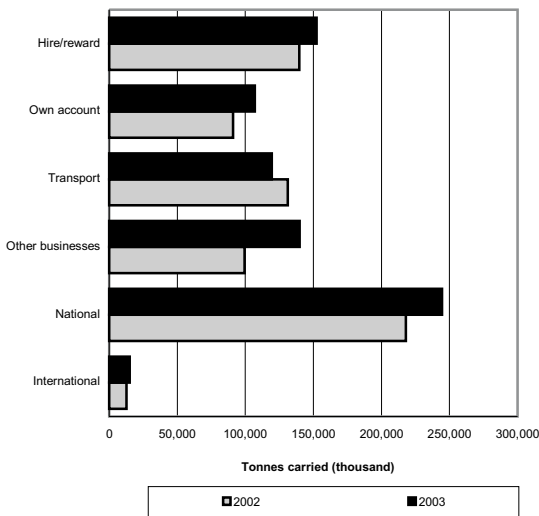
**Chart 13: Activity in terms of tonne-kilometres**



Vehicles used mainly for hire or reward transport carried over 152 million tonnes of goods in 2003, an increase of 9% on the 2002 figure. Activity in terms of tonne-kilometres and vehicle kilometres travelled increased by about 8% for these vehicles on the 2002 figures. In 2003 vehicles used mainly for hire or reward transport carried 59% of the total weight of goods as compared to 61% in 2002. The weight of goods carried on own account transport increased by 18% between 2002 and 2003, tonne-kilometres increased by 15% and vehicle kilometres increased by 8%.

The weight of goods carried by vehicles owned by transport businesses decreased by 9% between 2002 and 2003. Activity in terms of tonne-kilometres decreased by 3% and vehicle kilometres decreased by 4% on the 2002 figures. Figures for transport of goods by other types of business showed substantial increases. The weight of goods transported by vehicles owned by other businesses increased by 41%, activity in terms of tonne-kilometres increased by 40% and vehicle kilometres increased by 21%. Vehicles owned by transport businesses carried 46% of the total weight of goods transported in 2003 as compared to their 57% share in 2002.

**Chart 14: Weight of goods carried**



Between 2002 and 2003, the weight of goods carried on national journeys increased by 12% while the weight of goods carried on international journeys increased by 19%. In 2003, national transport accounted for 94% of the total weight of goods carried, compared with 95% in 2002. National transport activity in terms of tonne-kilometres increased by 12% between 2002 and 2003, while international transport activity increased by 5%. Vehicle kilometres travelled on national journeys increased by 7% and vehicle kilometres travelled on international journeys increased by 9%. (See Table J.1 and Charts 13 and 14).

**Table J.1**

	Owner, Use, National/International		Tonne-Kilometres		Tonnes Carried	
	2002	2003	2002	2003	2002	2003
	<i>million</i>		<i>% Change</i>		<i>thousand</i>	
<b>Business of Owner</b>						
Transport	10,102	9,797	-3.0	131,102	119,529	-8.8
Other	4,346	6,101	40.4	99,489	139,936	40.7
<b>Main Use of Vehicle</b>						
Hire or Reward	10,527	11,394	8.2	139,653	152,456	9.2
Own Account	3,921	4,504	14.9	90,938	107,009	17.7
<b>National/International</b>						
National	10,903	12,181	11.7	217,994	244,469	12.1
International	3,545	3,717	4.9	12,597	14,996	19.0
<b>Total</b>	<b>14,448</b>	<b>15,898</b>	<b>10.0</b>	<b>230,591</b>	<b>259,465</b>	<b>12.5</b>





## **Chapter 2**

### **Detailed Results**

**Table 1 Transport Activity classified by Business of owner and Main use of vehicle, 2003**

Business of owner of vehicle	Tonne-km (million)			Tonnes carried (thousand)		
	Own Account	Hire or Reward	Total	Own Account	Hire or Reward	Total
Transport	0	9,797	9,797	0	119,529	119,529
Manufacturing industry	1,626	0	1,626	42,609	0	42,609
Mining & quarrying (incl. sand & gravel merchants)	398	0	398	15,910	0	15,910
Creameries & agricultural cooperative societies	108	0	108	2,234	0	2,234
Manufacture of food & feeding stuffs	202	0	202	2,781	0	2,781
Manufacture of drink & tobacco	103	0	103	886	0	886
Manufacture of glass, cement & clay products	543	0	543	17,073	0	17,073
Other manufacturing	272	0	272	3,724	0	3,724
Building & Construction	325	1	327	13,102	102	13,205
Distribution	1,702	1,173	2,874	29,821	26,955	56,776
Agriculture & livestock dealing	167	27	194	2,714	362	3,076
Local Authorities	265	0	265	8,390	0	8,390
Other	419	396	815	10,372	5,508	15,880
<b>Total</b>	<b>4,504</b>	<b>11,394</b>	<b>15,898</b>	<b>107,009</b>	<b>152,456</b>	<b>259,465</b>

**Table 2 Transport Activity classified by Vehicle capacity, National/International journeys and Main use of vehicle, 2003**

Type of Journey and Vehicle Capacity	Tonne-km (million)			Tonnes carried (thousand)		
	Own Account	Hire or Reward	Total	Own Account	Hire or Reward	Total
<b>National journeys</b>						
<b>Vehicle capacity (kg)</b>						
Up to 5,000	102	31	133	2,781	357	3,138
5,001 - 10,000	234	123	357	6,220	1,874	8,094
10,001 - 15,000	312	415	726	7,957	5,334	13,291
15,001 - 20,000	855	1,099	1,953	17,454	19,967	37,422
20,001 - 25,000	134	421	555	2,512	6,196	8,708
25,001 - 35,000	1,955	5,002	6,957	54,817	97,791	152,608
Over 35,000	584	916	1,500	9,180	12,029	21,209
Total	4,175	8,006	12,181	100,921	143,548	244,469
<b>International journeys</b>						
<b>Vehicle capacity (kg)</b>						
Up to 5,000	1	6	7	6	77	83
5,001 - 10,000	7	7	14	72	39	111
10,001 - 15,000	11	160	171	153	290	443
15,001 - 20,000	18	435	453	915	909	1,824
20,001 - 25,000	25	239	265	141	481	622
25,001 - 35,000	154	2,054	2,208	3,404	6,040	9,445
Over 35,000	114	486	600	1,396	1,072	2,468
Total	330	3,388	3,717	6,088	8,908	14,996
<b>Total</b>						
<b>Vehicle capacity (kg)</b>						
Up to 5,000	102	37	139	2,786	434	3,220
5,001 - 10,000	241	129	370	6,293	1,913	8,206
10,001 - 15,000	322	575	897	8,110	5,624	13,734
15,001 - 20,000	873	1,534	2,407	18,370	20,876	39,246
20,001 - 25,000	159	660	819	2,652	6,678	9,330
25,001 - 35,000	2,109	7,056	9,165	58,221	103,831	162,052
Over 35,000	698	1,402	2,100	10,576	13,101	23,677
Total	4,504	11,394	15,898	107,009	152,456	259,465

**Table 3 Transport Activity classified by Business of owner, Unladen weight and Main use of vehicle, 2003**

Business of owner and Unladen weight of vehicle	Tonne-km (million)			Tonnes carried (thousand)		
	Own Account	Hire or Reward	Total	Own Account	Hire or Reward	Total
<b>Transport</b>						
<b>Unladen weight (kg)</b>						
2,000 - 5,000	0	81	81	0	1,088	1,088
5,001 - 7,500	0	553	553	0	5,192	5,192
7,501 - 10,000	0	1,580	1,580	0	17,615	17,615
10,001 - 12,500	0	4,765	4,765	0	61,082	61,082
Over 12,500	0	2,818	2,818	0	34,552	34,552
<b>Total</b>	<b>0</b>	<b>9,797</b>	<b>9,797</b>	<b>0</b>	<b>119,529</b>	<b>119,529</b>
<b>Other businesses</b>						
<b>Unladen weight (kg)</b>						
2,000 - 5,000	299	36	335	7,698	614	8,312
5,001 - 7,500	338	161	499	8,787	1,345	10,132
7,501 - 10,000	846	321	1,167	15,595	4,553	20,148
10,001 - 12,500	1,368	579	1,947	37,273	14,375	51,648
Over 12,500	1,653	500	2,153	37,656	12,039	49,695
<b>Total</b>	<b>4,504</b>	<b>1,596</b>	<b>6,101</b>	<b>107,009</b>	<b>32,927</b>	<b>139,936</b>
<b>Total</b>						
<b>Unladen weight (kg)</b>						
2,000 - 5,000	299	117	416	7,698	1,702	9,400
5,001 - 7,500	338	714	1,052	8,787	6,537	15,324
7,501 - 10,000	846	1,901	2,747	15,595	22,169	37,764
10,001 - 12,500	1,368	5,344	6,712	37,273	75,458	112,731
Over 12,500	1,653	3,318	4,971	37,656	46,591	84,247
<b>Total</b>	<b>4,504</b>	<b>11,394</b>	<b>15,898</b>	<b>107,009</b>	<b>152,456</b>	<b>259,465</b>

**Table 4 Transport Activity classified by Region of origin and Main use of vehicle, 2003**

Region of Origin	Tonne-km (million)			Tonnes carried (thousand)		
	Own Account	Hire or Reward	Total	Own Account	Hire or Reward	Total
Border	627	1,505	2,132	13,661	20,638	34,298
Midland	244	505	749	7,835	7,597	15,431
West	486	697	1,183	12,337	10,596	22,933
Dublin	809	1,901	2,710	17,863	32,270	50,133
Mid-East	396	1,042	1,438	13,100	20,398	33,498
Mid-West	372	964	1,336	9,445	17,314	26,759
South-East	716	1,430	2,145	13,502	17,005	30,507
South-West	637	1,375	2,012	14,754	20,881	35,634
Other	217	1,976	2,193	4,514	5,757	10,271
<b>Total</b>	<b>4,504</b>	<b>11,394</b>	<b>15,898</b>	<b>107,009</b>	<b>152,456</b>	<b>259,465</b>

**Table 5 Transport Activity classified by Business of owner, Length of haul and Main use of vehicle, 2003**

Business of owner of vehicle and Length of haul	Tonne-km (million)			Tonnes carried (thousand)		
	Own Account	Hire or Reward	Total	Own Account	Hire or Reward	Total
<b>Transport</b>						
<b>Length of haul (km)</b>						
Up to 10	0	95	95	0	17,094	17,094
11-25	0	570	570	0	35,250	35,250
26-50	0	748	748	0	20,919	20,919
51-150	0	2,378	2,378	0	27,419	27,419
151-500	0	3,862	3,862	0	16,823	16,823
Over 500	0	2,145	2,145	0	2,023	2,023
Total	0	9,797	9,797	0	119,529	119,529
<b>Other businesses</b>						
<b>Length of haul (km)</b>						
Up to 10	97	35	132	19,764	5,798	25,562
11-25	579	195	773	36,633	11,860	48,492
26-50	812	241	1,053	24,012	6,913	30,924
51-150	1,509	424	1,933	19,560	5,631	25,190
151-500	1,259	522	1,781	6,614	2,509	9,122
Over 500	249	180	429	427	218	644
Total	4,504	1,596	6,101	107,009	32,927	139,936
<b>Total</b>						
<b>Length of haul (km)</b>						
Up to 10	97	130	227	19,764	22,892	42,657
11-25	579	765	1,343	36,633	47,110	83,743
26-50	812	988	1,800	24,012	27,832	51,843
51-150	1,509	2,802	4,311	19,560	33,050	52,609
151-500	1,259	4,384	5,643	6,614	19,331	25,945
Over 500	249	2,325	2,574	427	2,241	2,668
Total	4,504	11,394	15,898	107,009	152,456	259,465

**Table 6 Transport Activity classified by Main type of work and Main use of vehicle, 2003**

Main type of work done by vehicle	Tonne-km (million)			Tonnes carried (thousand)		
	Own Account	Hire or Reward	Total	Own Account	Hire or Reward	Total
Import/export work <sup>1</sup>	23	3,535	3,559	149	15,724	15,872
Carriage of livestock	51	110	161	797	1,290	2,087
Carriage of other farm produce from farms	91	216	307	2,156	4,209	6,365
Carriage of fertilisers, feedingstuffs etc. to farms	129	358	487	2,448	4,928	7,377
Delivery of goods to road works or building sites	1,384	1,746	3,130	54,161	65,512	119,673
Delivery of goods to retail outlets	849	1,468	2,317	10,480	14,150	24,630
Delivery of goods to wholesalers	260	926	1,187	2,531	8,031	10,562
Delivery of materials and fuels to factories	295	991	1,286	3,563	12,678	16,241
Delivery of goods to households	256	68	324	5,519	1,190	6,709
Other work	1,165	1,975	3,140	25,204	24,743	49,948
<b>Total</b>	<b>4,504</b>	<b>11,394</b>	<b>15,898</b>	<b>107,009</b>	<b>152,456</b>	<b>259,465</b>

<sup>1</sup> Includes work done to and from ports as well as roll-on/roll-off and cross-border work

**Table 7 Transport Activity classified by National/International journeys and Main use of vehicle, 2003**

Type of Journey	Tonne-km (million)			Tonnes carried (thousand)		
	Own Account	Hire or Reward	Total	Own Account	Hire or Reward	Total
National Journeys	4,175	8,006	12,181	100,921	143,548	244,469
International Journeys						
Goods loaded in Ireland	113	1,412	1,524	1,574	3,151	4,724
Goods unloaded in Ireland	146	1,259	1,404	2,625	3,041	5,665
Cross trade	2	295	296	3	291	295
Cabotage	70	423	492	1,886	2,425	4,311
Total International	330	3,388	3,717	6,088	8,908	14,996
<b>Total</b>	<b>4,504</b>	<b>11,394</b>	<b>15,898</b>	<b>107,009</b>	<b>152,456</b>	<b>259,465</b>

**Table 8 Transport Activity classified by National/International journeys, Quarter and Main use of vehicle, 2003**

National/International and Quarter	Tonne-km (million)			Tonnes carried (thousand)		
	Own Account	Hire or Reward	Total	Own Account	Hire or Reward	Total
<b>National journeys</b>						
January - March	958	1,921	2,879	24,633	35,677	60,311
April - June	1,125	2,125	3,251	26,571	37,240	63,811
July - September	1,070	2,026	3,096	25,517	37,824	63,341
October - December	1,021	1,934	2,955	24,199	32,807	57,007
Total	4,175	8,006	12,181	100,921	143,548	244,469
<b>International journeys</b>						
January - March	90	721	811	1,890	2,367	4,258
April - June	112	920	1,032	2,203	2,370	4,574
July - September	69	889	958	1,029	2,193	3,223
October - December	58	859	917	965	1,977	2,942
Total	330	3,388	3,717	6,088	8,908	14,996
<b>Total</b>						
January - March	1,048	2,642	3,689	26,524	38,045	64,568
April - June	1,238	3,045	4,283	28,775	39,610	68,384
July - September	1,140	2,915	4,054	26,546	40,017	66,564
October - December	1,079	2,792	3,872	25,164	34,784	59,948
Total	4,504	11,394	15,898	107,009	152,456	259,465

**Table 9 Transport Activity classified by Group of goods and National/International journeys, 2003**

Group of goods (NST/R Chapter)	Tonne-km (million)			Tonnes carried (thousand)		
	National journeys	International journeys	Total	National journeys	International journeys	Total
Agricultural products & live animals	1,146	478	1,623	14,305	1,161	15,467
Foodstuffs & animal fodder	2,434	1,102	3,535	29,812	2,378	32,190
Solid mineral fuels	169	38	207	3,479	212	3,691
Petroleum products	887	53	939	9,755	401	10,156
Ores & metal waste	187	53	240	2,049	197	2,246
Metal products	222	45	267	3,190	280	3,470
Crude & manufactured minerals, building materials	3,827	289	4,116	138,427	6,221	144,648
Fertilisers	361	21	382	6,284	121	6,405
Chemicals	255	136	391	4,001	360	4,361
Machinery, transport equipment, manufactured articles & miscellaneous articles	1,793	758	2,551	25,025	2,213	27,238
Mixed loads	901	746	1,646	8,142	1,451	9,593
<b>Total</b>	12,181	3,717	15,898	244,469	14,996	259,465

**Table 10 Transport Activity classified by Group of goods and Main use of vehicle, 2003**

Group of goods (NST/R Chapter)	Tonne-km (million)			Tonnes carried (thousand)		
	Own Account	Hire or Reward	Total	Own Account	Hire or Reward	Total
Agricultural products & live animals	350	1,273	1,623	4,980	10,486	15,467
Foodstuffs & animal fodder	736	2,800	3,535	10,182	22,008	32,190
Solid mineral fuels	66	141	207	1,683	2,008	3,691
Petroleum products	592	347	939	6,656	3,500	10,156
Ores & metal waste	58	182	240	717	1,529	2,246
Metal products	59	207	267	787	2,683	3,470
Crude & manufactured minerals, building materials	1,725	2,392	4,116	66,350	78,299	144,648
Fertilisers	81	301	382	1,913	4,491	6,405
Chemicals	45	346	391	830	3,530	4,361
Machinery, transport equipment, manufactured articles & miscellaneous articles	640	1,910	2,551	10,673	16,565	27,238
Mixed loads	152	1,494	1,646	2,237	7,356	9,593
<b>Total</b>	<b>4,504</b>	<b>11,394</b>	<b>15,898</b>	<b>107,009</b>	<b>152,456</b>	<b>259,465</b>

**Table 11 Average Number of vehicles classified by Unladen weight, Year of manufacture and Main use of vehicle, 2003**

Unladen weight and Year of manufacture of vehicle	Number of vehicles			Number of relevant vehicles		
	Own Account	Hire or Reward	Total	Own Account	Hire or Reward	Total
<b>Unladen weight (kg)</b>						
2,000 - 5,000	30,279	3,485	33,764	18,162	2,803	20,965
5,001 - 7,500	8,357	2,820	11,177	6,790	2,675	9,465
7,501 - 10,000	8,035	4,918	12,953	6,826	4,769	11,595
10,001 - 12,500	6,298	8,211	14,509	5,574	7,947	13,522
Over 12,500	4,474	4,148	8,622	4,095	4,058	8,153
<b>Total</b>	<b>57,442</b>	<b>23,582</b>	<b>81,024</b>	<b>41,448</b>	<b>22,252</b>	<b>63,700</b>
<b>Year of manufacture</b>						
2002-2003	7,154	2,790	9,944	4,281	2,581	6,862
2000-2001	8,982	3,812	12,794	6,340	3,628	9,969
1998-1999	8,550	4,222	12,771	6,456	4,078	10,535
1996-1997	7,193	4,089	11,282	5,138	3,917	9,055
1994-1995	6,782	3,679	10,461	5,161	3,512	8,674
1993 or before	18,782	4,991	23,773	14,071	4,535	18,606
<b>Total</b>	<b>57,442</b>	<b>23,582</b>	<b>81,024</b>	<b>41,448</b>	<b>22,252</b>	<b>63,700</b>



**Table 12 Transport Activity classified by Year of manufacture and Main use of vehicle, 2003**

Year of manufacture of vehicle	Tonne-km (million)			Tonnes carried (thousand)		
	Own Account	Hire or Reward	Total	Own Account	Hire or Reward	Total
2002-2003	649	2,066	2,715	14,749	20,135	34,883
2000-2001	1,074	2,360	3,434	22,679	32,084	54,764
1998-1999	916	2,696	3,612	23,516	32,068	55,584
1996-1997	753	2,139	2,892	16,967	26,635	43,602
1994-1995	480	1,372	1,852	10,686	20,326	31,011
1993 or before	633	760	1,393	18,412	21,208	39,620
<b>Total</b>	<b>4,504</b>	<b>11,394</b>	<b>15,898</b>	<b>107,009</b>	<b>152,456</b>	<b>259,465</b>

**Table 13 Transport Activity classified by Body type and Main use of vehicle, 2003**

Type of vehicle and Body type	Tonne-km (million)			Tonnes carried (thousand)		
	Own Account	Hire or Reward	Total	Own Account	Hire or Reward	Total
<b>Rigid/Rigid with Trailer</b>						
Platform or sided	239	305	544	6,051	6,661	12,712
Tipper	806	855	1,661	37,167	40,052	77,219
Tanker or other bulk carrier	406	122	528	7,363	2,972	10,335
Insulated or refrigerated box	143	99	242	2,041	1,088	3,129
Box or van body	297	388	685	4,805	3,716	8,522
Livestock carrier	21	46	67	456	817	1,273
Other	486	622	1,109	13,428	14,804	28,233
<b>Total</b>	<b>2,399</b>	<b>2,438</b>	<b>4,836</b>	<b>71,312</b>	<b>70,111</b>	<b>141,423</b>
<b>Articulated</b>						
Platform or sided	348	1,589	1,937	3,868	12,666	16,534
Tipper	354	1,157	1,511	11,076	23,586	34,663
Tanker or other bulk carrier	551	1,050	1,602	7,427	11,951	19,379
Insulated or refrigerated box	81	1,581	1,662	638	4,966	5,604
Box or van body	115	833	949	1,069	5,754	6,823
Livestock carrier	12	41	53	119	268	387
Other	643	2,705	3,349	11,500	23,153	34,653
<b>Total</b>	<b>2,105</b>	<b>8,956</b>	<b>11,062</b>	<b>35,697</b>	<b>82,345</b>	<b>118,042</b>
<b>All Vehicles</b>						
Platform or sided	587	1,893	2,481	9,919	19,328	29,247
Tipper	1,160	2,012	3,172	48,243	63,638	111,881
Tanker or other bulk carrier	958	1,172	2,130	14,791	14,923	29,714
Insulated or refrigerated box	224	1,680	1,904	2,680	6,053	8,733
Box or van body	413	1,221	1,634	5,874	9,471	15,344
Livestock carrier	33	87	120	575	1,085	1,660
Other	1,130	3,328	4,458	24,928	37,958	62,886
<b>Total</b>	<b>4,504</b>	<b>11,394</b>	<b>15,898</b>	<b>107,009</b>	<b>152,456</b>	<b>259,465</b>

**Table 14 Vehicle Kilometres travelled classified by Business of owner and Main use of vehicle, 2003**

Business of owner of vehicle	Loaded vehicle kilometres (million)			Total vehicle kilometres (million)		
	Own Account	Hire or Reward	Total	Own Account	Hire or Reward	Total
Transport	0	684	684	0	1,030	1,030
Manufacturing industry	155	0	155	264	0	264
Mining & quarrying (incl. sand & gravel merchants)	23	0	23	45	0	45
Creameries & agricultural cooperative societies	12	0	12	20	0	20
Manufacture of food & feeding stuffs	32	0	32	48	0	48
Manufacture of drink & tobacco	8	0	8	10	0	10
Manufacture of glass, cement & clay products	31	0	31	60	0	60
Other manufacturing	49	0	49	82	0	82
Building & Construction	41	0	41	77	0	77
Distribution	226	81	307	358	140	498
Agriculture & livestock dealing	29	3	32	54	6	60
Local Authorities	23	0	23	47	0	47
Other	54	38	93	89	60	148
<b>Total</b>	<b>528</b>	<b>807</b>	<b>1,336</b>	<b>888</b>	<b>1,235</b>	<b>2,124</b>

**Table 15 Transport Activity classified by National/International Journeys, Axle configuration and Main use of Vehicle, 2003**

Type of Journey and Axle Configuration	Tonne-km (million)			Tonnes carried (thousand)		
	Own Account	Hire or Reward	Total	Own Account	Hire or Reward	Total
<b>National journeys</b>						
Rigid						
2 axle	874	619	1,493	20,806	8,938	29,744
3 axle	634	387	1,021	14,163	9,436	23,599
Other rigid	787	1,098	1,885	33,141	49,567	82,707
Rigid + trailer	12	87	99	142	837	979
Articulated						
3 axle	126	215	341	3,078	3,373	6,450
4 axle	449	971	1,420	10,796	18,102	28,898
5 axle	1,009	3,846	4,855	14,834	43,189	58,023
Other articulated	284	783	1,067	3,962	10,107	14,069
<b>Total</b>	<b>4,175</b>	<b>8,006</b>	<b>12,181</b>	<b>100,921</b>	<b>143,548</b>	<b>244,469</b>
<b>International journeys</b>						
Rigid						
2 axle	21	130	151	197	218	415
3 axle	12	73	85	606	340	946
Other rigid	59	37	97	2,258	749	3,007
Rigid + trailer	0	6	6	0	27	27
Articulated						
3 axle	7	120	127	164	357	521
4 axle	30	216	246	1,199	564	1,763
5 axle	174	2,642	2,816	1,430	5,919	7,349
Other articulated	26	164	190	234	733	968
<b>Total</b>	<b>330</b>	<b>3,388</b>	<b>3,717</b>	<b>6,088</b>	<b>8,908</b>	<b>14,996</b>
<b>Total</b>						
Rigid						
2 axle	894	749	1,643	21,003	9,156	30,159
3 axle	647	460	1,106	14,769	9,776	24,544
Other rigid	847	1,135	1,982	35,399	50,315	85,714
Rigid + trailer	12	94	105	142	864	1,006
Articulated						
3 axle	133	334	468	3,241	3,730	6,971
4 axle	480	1,187	1,666	11,995	18,666	30,661
5 axle	1,183	6,488	7,671	16,264	49,108	65,372
Other articulated	310	948	1,257	4,197	10,841	15,037
<b>Total</b>	<b>4,504</b>	<b>11,394</b>	<b>15,898</b>	<b>107,009</b>	<b>152,456</b>	<b>259,465</b>

**Table 16 Transport Activity classified by Region of origin and Region of destination, 2003**

Region of Origin	Region of Destination										Total
	Border	Midland	West	Dublin	Mid-East	Mid-West	South-East	South-West	Other	Total	
	<b>Tonne-km (million)</b>										
Border	865	67	148	265	136	60	89	67	434	2,132	
Midland	72	243	77	99	41	33	61	49	74	749	
West	119	40	627	116	31	63	90	17	80	1,183	
Dublin	296	137	204	722	311	179	230	322	308	2,710	
Mid-East	141	53	64	323	499	49	101	78	130	1,438	
Mid-West	42	38	78	88	22	597	124	204	143	1,336	
South-East	69	94	65	244	96	94	1,001	270	213	2,145	
South-West	57	34	35	239	48	184	186	1,086	143	2,012	
Other	233	75	55	668	59	64	131	118	789	2,193	
<b>Total</b>	<b>1,894</b>	<b>783</b>	<b>1,354</b>	<b>2,765</b>	<b>1,243</b>	<b>1,323</b>	<b>2,012</b>	<b>2,210</b>	<b>2,313</b>	<b>15,898</b>	
	<b>Tonnes carried (thousand)</b>										
Border	24,617	619	990	2,675	2,112	260	357	208	2,461	34,298	
Midland	930	10,234	878	1,106	865	367	663	258	131	15,431	
West	1,232	712	19,002	580	220	555	441	80	111	22,933	
Dublin	2,141	1,314	1,018	32,591	8,333	901	1,707	1,254	875	50,133	
Mid-East	2,388	877	383	8,312	19,514	272	1,122	355	274	33,498	
Mid-West	221	416	575	413	166	20,755	1,843	2,196	174	26,759	
South-East	309	847	327	1,605	1,004	1,290	22,441	2,201	482	30,507	
South-West	167	175	165	902	214	1,740	1,440	30,614	217	35,634	
Other	3,189	254	248	1,261	186	87	282	158	4,606	10,271	
<b>Total</b>	<b>35,193</b>	<b>15,447</b>	<b>23,587</b>	<b>49,445</b>	<b>32,614</b>	<b>26,228</b>	<b>30,296</b>	<b>37,325</b>	<b>9,330</b>	<b>259,465</b>	

**Table 17 Vehicle Kilometres travelled classified by Region of origin and Region of destination, 2003**

Region of Origin	Region of Destination										Total
	Border	Midland	West	Dublin	Mid-East	Mid-West	South-East	South-West	Other		
	<b>Vehicle kilometres (million)</b>										
Border	128	9	17	40	18	7	9	8	37	273	
Midland	9	40	11	18	9	6	11	6	6	117	
West	17	9	96	23	7	10	8	4	7	181	
Dublin	42	19	26	147	50	21	35	34	30	404	
Mid-East	19	9	7	50	75	5	13	8	10	196	
Mid-West	6	6	10	19	5	89	17	27	13	191	
South-East	8	11	8	35	13	15	129	27	13	259	
South-West	7	6	5	34	8	25	27	185	11	307	
Other	23	5	3	50	6	6	13	9	79	195	
<b>Total</b>	260	114	183	416	190	184	262	309	205	2,124	

**Table 18 Transport Activity classified by Country of origin and Country of destination, 2003**

Country of Origin	Country of Destination									
	Austria	Belgium	Denmark	Finland	France	Germany	Greece	Ireland	Italy	Luxembourg
	<b>Tonne-km (million)</b>									
Austria	0	0	0	0	0	0	0	16	0	0
Belgium	4	0	0	0	0	5	0	28	0	0
Denmark	0	0	0	0	0	1	0	19	0	0
Finland	0	0	0	0	0	0	0	0	0	0
France	0	1	0	0	13	1	0	155	2	0
Germany	0	2	0	0	0	4	0	120	0	1
Greece	0	0	0	0	0	0	0	3	0	0
Ireland	6	8	18	0	163	138	0	12,181	114	6
Italy	0	0	0	0	1	0	1	101	8	0
Luxembourg	0	0	0	0	0	0	0	9	0	0
Netherlands	0	0	0	0	0	3	0	81	0	0
Portugal	0	0	0	0	0	0	0	0	0	0
Spain	0	0	0	0	4	0	0	90	0	0
Sweden	0	0	0	0	0	1	0	3	0	0
United Kingdom	0	0	0	0	11	10	6	763	6	0
Other Countries	0	0	0	0	0	0	0	15	0	0
<b>Total</b>	10	10	18	0	192	162	7	13,585	131	7

**Table 18 Transport Activity classified by Country of origin and Country of destination, 2003**  
**-continued**

Country of Origin	Country of Destination					Total	
	Netherlands	Portugal	Spain	Sweden	United Kingdom		Other Countries
<b>Tonne-km (million)</b>							
Austria	0	0	0	0	0	0	16
Belgium	0	0	0	0	0	0	38
Denmark	0	0	0	0	0	0	20
Finland	0	0	0	0	0	0	0
France	2	0	25	0	30	0	229
Germany	0	0	0	0	46	0	174
Greece	0	0	0	0	0	0	3
Ireland	48	13	84	29	766	130	13,705
Italy	0	0	0	0	29	0	140
Luxembourg	0	0	0	0	5	0	14
Netherlands	0	0	0	0	23	0	110
Portugal	0	0	0	0	0	0	0
Spain	0	0	5	0	35	0	133
Sweden	0	0	0	0	0	0	4
United Kingdom	4	8	4	0	462	0	1,274
Other Countries	0	0	0	0	20	3	38
<b>Total</b>	<b>54</b>	<b>21</b>	<b>117</b>	<b>30</b>	<b>1,417</b>	<b>133</b>	<b>15,898</b>

**Table 19 Weight of goods carried classified by Country of origin and Country of destination, 2003**

Country of Origin	Country of Destination									
	Austria	Belgium	Denmark	Finland	France	Germany	Greece	Ireland	Italy	Luxembourg
	<b>Tonnes carried (thousand)</b>									
Austria	0	0	0	0	0	0	0	10	0	0
Belgium	5	0	0	0	0	9	0	31	0	0
Denmark	0	0	0	0	0	3	0	14	0	0
Finland	0	0	0	0	0	0	0	0	0	0
France	0	2	0	0	24	1	0	134	2	0
Germany	0	3	0	0	0	13	0	91	0	3
Greece	0	0	0	0	0	0	0	1	0	0
Ireland	5	9	13	0	137	103	0	244,469	59	6
Italy	0	0	0	0	3	0	6	54	21	0
Luxembourg	0	0	0	0	0	0	0	7	0	0
Netherlands	0	0	0	0	0	5	0	83	0	0
Portugal	0	0	0	0	0	0	0	0	0	0
Spain	0	0	0	0	3	0	0	40	0	0
Sweden	0	0	0	0	0	3	0	1	0	0
United Kingdom	0	0	0	0	15	9	3	5,190	3	0
Other Countries	0	0	0	0	0	0	0	10	0	0
<b>Total</b>	<b>9</b>	<b>14</b>	<b>13</b>	<b>0</b>	<b>184</b>	<b>146</b>	<b>9</b>	<b>250,135</b>	<b>86</b>	<b>9</b>



**Table 19 Weight of goods carried classified by Country of origin and Country of destination, 2003**  
**-continued**

Country of Origin	Country of Destination						Total
	Netherlands	Portugal	Spain	Sweden	United Kingdom	Other Countries	
<b>Tonnes carried (thousand)</b>							
Austria	0	0	0	0	0	0	10
Belgium	0	0	0	0	1	0	46
Denmark	0	0	0	0	0	0	17
Finland	0	0	0	0	0	0	0
France	4	0	22	0	39	0	229
Germany	0	0	0	1	43	0	155
Greece	0	0	0	0	0	0	1
Ireland	51	5	39	14	4,225	57	249,194
Italy	0	0	0	0	22	0	106
Luxembourg	0	0	0	0	10	0	17
Netherlands	0	0	0	0	29	0	119
Portugal	0	0	0	0	0	0	0
Spain	0	0	13	0	19	0	75
Sweden	0	0	0	0	0	0	4
United Kingdom	6	3	2	0	4,239	0	9,472
Other Countries	0	0	0	0	9	2	22
<b>Total</b>	<b>62</b>	<b>9</b>	<b>76</b>	<b>16</b>	<b>8,636</b>	<b>59</b>	<b>259,465</b>

**Table 20 Vehicle Kilometres travelled classified by Country of origin and Country of destination, 2003**

Country of Origin	Country of Destination									
	Austria	Belgium	Denmark	Finland	France	Germany	Greece	Ireland	Italy	Luxembourg
	<b>Vehicle kilometres (million)</b>									
Austria	0	0	0	0	0	0	0	1	0	0
Belgium	0	0	0	0	0	0	0	2	0	0
Denmark	0	0	0	0	0	0	0	1	0	0
Finland	0	0	0	0	0	0	0	0	0	0
France	0	0	0	0	3	0	0	10	0	0
Germany	0	0	0	0	0	1	0	10	0	0
Greece	0	0	0	0	0	0	0	1	0	0
Ireland	0	1	1	0	12	11	0	1,802	8	1
Italy	0	0	0	0	0	0	0	7	1	0
Luxembourg	0	0	0	0	0	0	0	1	0	0
Netherlands	0	0	0	0	0	0	0	5	0	0
Portugal	0	0	0	0	0	0	0	0	0	0
Spain	0	0	0	0	1	0	0	5	0	0
Sweden	0	0	0	0	0	0	0	1	0	0
United Kingdom	0	0	0	0	1	1	0	72	0	0
Other Countries	0	0	0	0	0	0	0	1	0	0
<b>Total</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>17</b>	<b>15</b>	<b>1</b>	<b>1,918</b>	<b>10</b>	<b>1</b>

**Table 20 Vehicle Kilometres travelled classified by Country of origin and Country of destination, 2003  
-continued**

Country of Origin	Country of Destination						Total
	Netherlands	Portugal	Spain	Sweden	United Kingdom	Other Countries	
	<b>Vehicle kilometres (million)</b>						
Austria	0	0	0	0	0	0	1
Belgium	0	0	0	0	0	0	3
Denmark	0	0	0	0	0	0	2
Finland	0	0	0	0	0	0	0
France	0	0	2	0	2	0	18
Germany	1	0	0	0	3	0	16
Greece	0	0	0	0	0	0	1
Ireland	3	1	7	1	71	8	1,929
Italy	0	0	0	0	2	0	11
Luxembourg	0	0	0	0	0	0	1
Netherlands	0	0	0	0	2	0	7
Portugal	0	0	0	0	0	0	0
Spain	0	0	1	0	2	0	10
Sweden	0	0	0	0	0	0	1
United Kingdom	1	1	0	0	44	1	120
Other Countries	0	0	0	0	1	1	4
<b>Total</b>	<b>5</b>	<b>1</b>	<b>11</b>	<b>2</b>	<b>129</b>	<b>9</b>	<b>2,124</b>



# **Chapter 3**

## **Methodology**

# Survey Methodology

**Legal Framework** The “National Survey of Transport of Goods by Road” was carried out as part of an EU wide project, in accordance with Council Regulation (EC) 1172/98 on statistical returns in respect of the carriage of goods by road.

**Data** Data on all vehicles taxed as goods vehicles is made available by the Department of the Environment, Heritage and Local Government for the survey. From this a basic survey register is constructed. It comprises all goods vehicles which had been under licence at any time after 31 December 1988.

The register was updated every eight weeks during 2003 with information from the Department regarding vehicles;

- (i) being registered for the first time,
- (ii) having their motor taxation class changed,
- (iii) being formally scrapped,
- (iv) having their registered owner changed.

The details relating to each vehicle contained on the register which were required for survey purposes were as follows:

- year of manufacture of the vehicle,
- date of first registration of vehicle,
- an indication as to whether the vehicle had been taxed for the carriage of goods on own account or for hire or reward,
- unladen weight of vehicle and
- name and address of the person in whose name the vehicle was most recently taxed (referred to as the owner of the vehicle in the following paragraphs).

**Sample Design** Information was collected regarding one week’s transport activity for a random sample of goods vehicles. The sample was spread evenly over each week during the year. Each week a sample of vehicles was selected from the register and a questionnaire, seeking information on the vehicle and an account of the vehicle’s activity during that week, was issued to the owner of the vehicle. For the purposes of sample selection vehicles were divided into 3 strata depending on their unladen weight. A random sample was taken within each of the three unladen weight strata. Different sampling rates were applied in each unladen weight stratum to maximise sampling accuracy for the overall sample. Steps were taken to ensure that the sample rates remained constant across the three vehicle age categories shown in Appendix A. Table K.1 shows the sampling rates used. A breakdown of the three selection strata is shown in Appendix A. The sampling rates remained constant throughout the year and accordingly, since newly registered goods vehicles were being added to the register at regular intervals, the weekly sample size increased gradually as the year progressed.

**Table K.1**

Unladen Weight		
2-5 tonnes	5-10 tonnes	10 tonnes and over
Sampling Rate %		
15	50	90

**Data Collection** Survey questionnaires (see Appendix D) were issued during the week prior to the survey week to which they referred. When necessary, reminders were issued 10 days and 20 days after the survey week.

**Response Rates** Overall, out of a total of 29,861 vehicles surveyed, a satisfactory return was received in respect of 11,055 vehicles and represented an overall response rate of 37%. However, this rate varied across the different unladen weight strata and also differed across the year of manufacture. Response rates for the unladen weight stratum broken down by year of manufacture are presented in Table L.1:

**Table L.1**

Year of Manufacture	Unladen Weight					
	2-5 tonnes		5-10 tonnes		10 tonnes and over	
	Questionnaires Issued	% Response	Questionnaires Issued	% Response	Questionnaires Issued	% Response
<b>Before 1995</b>	2,395	34	3,634	30	3,812	24
<b>1995-1999</b>	2,510	44	2,572	40	5,747	36
<b>After 1999</b>	3,129	44	1,368	43	4,694	43

When transfer of ownership or change of address of owner occurred before the survey week, every effort was made to trace the new owner or to ascertain the new address. However, this was not always possible and as a result response rates were lower than would otherwise have been the case.

Where returned questionnaires were either incomplete or unsatisfactorily completed the vehicle owners were queried regarding omissions or erroneous entries. Unless satisfactory replies were received to such queries these questionnaires were not used in the processing of the survey results and are not included in the calculation of response rates above. Vehicles that had been scrapped before the relevant survey week accounted for 1,361 returns in addition to the 11,055 satisfactory returns.

**Compilation and Grossing** Survey returns were processed on a quarterly basis and in each year the results obtained for each of the four quarters were combined to provide the annual results contained in this report. The same processing scheme was used for each quarter and this involved stringent checking of returns including comparisons with activity levels in previous quarters.

For the grossing up of survey returns to the level of the goods vehicle fleet as a whole, vehicles were classified into a total of 20 strata by subdividing the 3 strata used in sample selection via three additional criteria. These criteria were:

- Year of first registration of the vehicle;
- Whether the vehicle had been taxed for the carriage of goods on own account or for hire or reward and;
- Year of manufacture.

A full description of the 20 strata used, together with their relationship to the 3 sample selection strata, is given in Appendix A. These additional strata were introduced to cater for the following:

- (a) possible under-representation in the sample of vehicles registered for the first time during the survey year;
- (b) possible varying response between vehicles which had been taxed for the carriage of goods on own account on the one hand or for hire or reward on the other.

In each stratum the total number of vehicles on the register was first adjusted to take account of the estimated number of scrapped vehicles. The resultant total number of non-scrapped (i.e. active) vehicles was then divided by the number of non-scrapped vehicles in the sample to provide the stratum vehicle grossing factor.

The weekly activity measures (tonnes carried, tonne-kilometres done etc.) for each sample vehicle were multiplied by 13 to expand them to quarterly levels and then by the relevant vehicle grossing factor to obtain the quarterly estimate covering all *active* vehicles. The estimates for each quarter were then added together to provide the annual results.

The total fleet size for which estimated analyses are provided is the *average* of the number of *active* vehicles in each quarter. Thus the total of vehicles analysed in this report does not relate to the actual goods vehicle fleet at any particular time during the survey year but to the average fleet size during the year. Similarly the fleet classifications provided refer to the average position during the year.

### Reliability of Results

Estimation of survey results from data relating to only one week's activity for a sample of vehicles introduces a statistical variability which would not be present if a full year's data had been collected for *every* vehicle. This means that the survey results cannot be taken as accurate to the full degree shown in this report.

The variability is expressed by means of the coefficient of variation. This coefficient gives the relative size of the "sampling error" (variability) present in an estimate compared with the estimate itself. In general, estimates can be said to have a relative precision of twice their coefficient of variation. The estimated coefficients of variation for the overall tonnes carried, tonne-kilometres and vehicle kilometres estimates are shown in Table M.1 below.

**Table M.1**

Unladen Weight (tonnes)	Tonne-Kilometres		Tonnes Carried		Vehicle Kilometres	
	Survey Estimate	Coefficient of Variation	Survey Estimate	Coefficient of Variation	Survey Estimate	Coefficient of Variation
	<i>million</i>	%	<i>thousand</i>	%	<i>million</i>	%
2-5	416	8	9,400	3	357	4
5-7.5	1,052	9	15,324	6	235	5
7.5-10	2,747	10	37,764	4	410	4
10-12.5	6,712	4	112,731	3	663	3
Over 12.5	4,971	3	84,247	3	459	3
<b>Total</b>	<b>15,898</b>	<b>2</b>	<b>259,465</b>	<b>2</b>	<b>2,124</b>	<b>2</b>

In general, the more detailed the classification provided the greater the coefficient of variation of the estimates. In the derivation of the results the assumption was made that non-respondents had similar characteristics and activity levels to those of respondents in the same stratification cell. This assumption, which is a standard one in surveys such as this, may have resulted in some slight bias being introduced into the results. Moreover, although every effort was made to ensure that the returns received were correct in all respects it is inevitable that some minor non-sampling errors remained undetected.



## **Definitions Used    Type of Journey**

Two basic categories of journey were distinguished – split delivery/collection journeys and end-to-end journeys.

- End-to-end journeys are those which have no intermediate collection or delivery points between their origin and destination.
- Split delivery/collection journeys involved the depositing and/or collection of part of the load carried at one or more stopping points along the way. Common examples of such journeys are household bread delivery runs or delivering of beer to public houses with concomitant collection of empties.

### **Tonnes Carried**

- This is the weight of goods (including empties) carried inclusive of packaging etc. but excluding the weight of demountable containers (if any) in which the goods are carried.
- For split delivery/collection journeys tonnes carried is taken as the weight of goods at the start of the journey plus the weight of any other goods collected during the journey.

### **Tonne-Kilometre**

- For end-to-end journeys this is the result of multiplying the weight of goods carried by the distance they were carried.
- For split delivery/collection journeys more complex formulae were used. These involved multiplying the distance travelled with a load by an estimate of the average weight of load carried.

### **Road Cabotage Transport**

In the context of this report, road cabotage transport is the carriage of goods by road by Irish registered goods vehicles between two places (a place of loading/embarkment and a place of unloading/disembarkment) located in the same country provided that this country is not the Republic of Ireland. It may involve transit through one or more additional countries.

### **Cross Trade**

In the context of this report, cross trade is the carriage of goods by road by Irish registered goods vehicles between two places (a place of loading/embarkment and a place of unloading/disembarkment) located in two different countries, provided that neither of these countries is the Republic of Ireland. It may involve transit through one or more additional countries.

### **International Road Transport**

In the context of this report, international transport is the carriage of goods by road by Irish registered goods vehicles between two places (a place of loading/embarkment and a place of unloading/disembarkment) located in two different countries and cabotage by road as defined above. It may involve transit through one or more additional countries.

### **National Transport**

In the context of this report, national transport is the carriage of goods by road by Irish registered goods vehicles between two places (a place of loading/embarkment and a place of unloading/disembarkment) both of which are located in the Republic of Ireland.



## **Appendices**

## Appendix A

### Definition of Strata used in Sample Selection and in the Grossing up of Survey Returns

Vehicle Characteristics				Stratum Number	
Year of Manufacture	Unladen Weight	Taxation Use <sup>1</sup>	Year of First Registration	Grossing Up	Sample Selection
Before 1995	2-5 tonnes	Immaterial	Immaterial	1	1
“	5-10 tonnes	Own Account	“	2	2
“	“	Hire or Reward	“	3	
“	10 tonnes or over	Own Account	“	4	3
“				“	
1995 to 1999	2-5 tonnes	Immaterial	“	6	4
“	5-10 tonnes	Own Account	“	7	5
“				“	
“	10 tonnes or over	Own Account	“	9	6
“				“	
2000 or later	2-5 tonnes	Immaterial	Before 1999 1999 or later	11	7
“	“	“		12	
“	5-10 tonnes	Own Account	Before 1999 1999 or later	13	8
“				“	
“	“	Hire or Reward	Before 1999	15	
“	“	“	1999 or later	16	
“	10 tonnes or over	Own Account	Before 1999 1999 or later	17	9
“				“	
“	“	Hire or Reward	Before 1999	19	
“	“	“	1999 or later	20	

<sup>1</sup> This is the use (viz. **carriage for hire or reward** or **own account carriage**) stated by the declarant when taxing the vehicle.

## Appendix B

### The NUTS 3<sup>1</sup> Regions of Ireland

NUTS 3 Region	Composition
Border	Counties of Cavan, Donegal, Leitrim, Louth, Monaghan and Sligo.
Midland	Counties of Laois, Longford, Offaly and Westmeath.
West	Galway City and County, Mayo and Roscommon.
Dublin	Dublin City, Dun Laoghaire-Rathdown, Fingal and South Dublin.
Mid-East	Counties of Kildare, Meath and Wicklow.
Mid-West	Limerick City and County, Clare and North Tipperary.
South-East	Waterford City and County, Carlow, Kilkenny, South Tipperary and Wexford.
South-West	Cork City and County and County of Kerry.

<sup>1</sup> Level 3 of the Nomenclature of Territorial Units for Statistics (NUTS), for the member states of the European Union.

## Appendix C

### Structure of the Standard Goods Classification for Transport Statistics (NST/R)

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#### CHAPTER TITLE

#### Contents

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#### **Agricultural products and live animals**

- Live animals
- Cereals
- Potatoes
- Other fresh or frozen fruit and vegetables
- Textile materials and man-made fibres
- Wood and Cork
- Sugar beet
- Other raw animal and vegetable materials

#### **Foodstuffs and animal fodder**

- Sugars
- Beverages
- Stimulants and spices
- Perishable foodstuffs
- Other non-perishable foodstuffs and hops
- Animal food and foodstuffs waste
- Oil seeds and oleaginous fruit and fats

#### **Solid mineral fuels**

- Coal
- Lignite and peat
- Coke

#### **Petroleum products**

- Crude petroleum
- Fuel derivatives
- Gaseous hydrocarbons, liquid or compressed
- Non-fuel derivatives

#### **Ores and metal waste**

- Iron ore
- Non-ferrous ores and waste
- Iron and steel waste and blast-furnace dust

#### **Metal products**

- Pig-iron and crude steel; ferro-alloys
- Semi-finished rolled steel products
- Bars, sections, wire rod, railway and tramway track  
  construction material of iron or steel
- Steel sheets, plates, hoop and strip
- Tubes, pipes, iron and steel castings and forgings
- Non-ferrous metals

## Appendix C (contd.)

### Crude and manufactured minerals, building materials

- Sand, gravel, clay and slag
- Salt, iron pyrites, sulphur
- Other stone earths and minerals
- Cement, lime
- Plasters
- Other manufactured building materials

### Fertilisers

- Natural fertilisers
- Chemical fertilisers

### Chemicals

- Basic chemicals
- Aluminium oxide and hydroxide
- Coal chemicals
- Paper pulp and waste paper
- Other chemical products

### Machinery, transport equipment, manufactured articles and miscellaneous articles

- Transport equipment
- Tractors; agricultural machinery and equipment
- Other machinery, apparatus and appliances, engines, parts thereof
- Manufactures of metal
- Glass, glassware, ceramic products
- Leather, textiles and clothing
- Other manufactured articles
- Miscellaneous articles

### Mixed loads

- Loads containing goods belonging to different categories







**NATIONAL SURVEY OF TRANSPORT OF GOODS BY ROAD**

**Enquiries to:**

Transport Section  
Central Statistics Office  
Skehard Road  
Cork

Phone **021-453 5000** or **01-497 7144**

LoCall 1890 313 414

Fax 021-453 5299

Official use only	
Coded	
Checked	

*Amend if incorrect in any respect*

This statutory survey is conducted under the Statistics (Road Freight) Order, 2002 (S.I. No. 465 of 2002). The survey is conducted in compliance with Council Regulation (EC) No. 1172/98. Results from the survey provide valuable information on the scale and development of carriage of goods by road by Irish Registered Goods Vehicles.

The vehicle whose registration number is shown, has been selected for inclusion in the survey for the week beginning **Monday**. Please ensure that a record of **all** journeys made during the survey week is entered on the form. The completed form must be returned in the pre-paid envelope provided **not later than Friday of the form**. **Please read the instruction sheet enclosed to ensure accurate completion of the form.**

The information you provide will be treated as strictly confidential in accordance with Section 33 of the Statistics Act, 1993 and cannot be accessed under the terms of the Freedom of Information Act, 1997. It will be used only for statistical purposes and will not be disclosed to any other Government Department or body.

Notice is served under Section 26 of the Statistics Act, 1993. You are obliged by law to complete and return this form to the Central Statistics Office.

*Donal Garvey*

Donal Garvey  
Director General

**CHANGE OF OWNERSHIP OR VEHICLE SCRAPPED**

To be completed if the vehicle has been sold or scrapped and the **form returned immediately**.

If you sold the vehicle

If the vehicle has been scrapped

STATE YEAR SOLD .....

STATE YEAR SCRAPPED .....

**IF THIS SECTION IS COMPLETED GO TO THE CERTIFICATION ON PAGE 4 OF THE FORM**

**BUSINESS DETAILS**

1. What is the main type of business carried on by the vehicle owner?.....  
(E.g. Wholesaling, farming, haulage, manufacturing, etc.). If a manufacturer specify main product.

Yes

No

2. Is the vehicle used under a National or International Road Freight Carrier's Licence (✓)



3. Is the vehicle used mainly for

Carriage of your own goods?

**PLEASE ✓  
APPROPRIATE  
BOX**

Carriage of other persons/companies goods?

Hire to others?

## RECORD OF WORK DONE BY VEHICLE DURING THE WEEK

- NOTES**
1. Details of all journeys should be recorded as they are made.
  2. Record outward and return journeys on separate lines.
  3. Give details of all empty journeys.
  4. For type of goods carried (column 4) state main commodity; if no main commodity enter "Sundries". If goods are a **dangerous substance** please code product as shown on instruction sheet enclosed.
  5. Weights should be specified in Kgs. If exact weights are not available, please give estimates or specify other units e.g. Litres, Tonnes, Tons, Cubic Metres, Cubic Feet, etc.
  6. If the same journey with a similar load was repeated during the day only one entry is required with the number of such journeys entered in column (12).

DAY OF WEEK	JOURNEYS (Please give nearest town and district)		TYPE OF GOODS CARRIED Give full details  (See Note 4 above)	WEIGHT OF GOODS CARRIED AT BEGINNING OF JOURNEY  (See Note 5)	Distance Travelled		Complete only for split delivery/ collection journeys				NO. of times the same journey with similar load was carried out during the day
	ORIGIN  <i>(Include Ferry Route and countries in transit, if appropriate)</i>	DESTINATION			LOADED	EMPTY	NO. of stops for collection	WEIGHT of all extra loads collected	NO. of stops for delivery	WEIGHT of all goods delivered	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
MONDAY				KGS	MILES	MILES	NO.	KGS	NO.	KGS	NO.
TUESDAY											

PLEASE SEE OVER 

WEDNESDAY

THURSDAY

FRIDAY









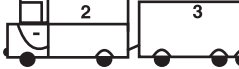






SATURDAY

SUNDAY

**THIS PAGE SHOULD BE COMPLETED UNLESS YOU HAVE SOLD OR SCRAPPED THE VEHICLE**

<p><b>4. CARRYING CAPACITY (i.e. heaviest load possible) OF VEHICLE</b> <span style="float: right; border: 1px solid black; padding: 2px 10px;">Kgs</span></p> <p><b>5. If the vehicle is used to draw a trailer then give the UNLADEN WEIGHT of the trailer</b> <span style="float: right; border: 1px solid black; padding: 2px 10px;">Kgs</span></p> <p><b>CARRYING CAPACITY of trailer</b> <span style="float: right; border: 1px solid black; padding: 2px 10px;">Kgs</span></p> <p><b>6. TYPE OF BODY (please ✓ appropriate box)</b></p> <p>Tipper <input type="checkbox"/> 1</p> <p>Insulated or refrigerated <input type="checkbox"/> 2</p> <p>Tanker or other bulk carrier <input type="checkbox"/> 3</p> <p>Livestock carrier <input type="checkbox"/> 4</p> <p>Box or Van body <input type="checkbox"/> 5</p> <p>Platform or sided <input type="checkbox"/> 6</p> <p>Other (specify.....) <input type="checkbox"/> 7</p>	<p><b>7. TYPE OF WORK NORMALLY CARRIED OUT BY VEHICLE (please ✓ appropriate box)</b></p> <p>Import/export work <input type="checkbox"/> 1 <small>(i.e. international carriage or delivery/ collection in connection with international trade)</small></p> <p>Delivering goods to retail outlets <input type="checkbox"/> 2</p> <p>Delivering goods to households <input type="checkbox"/> 3</p> <p>Delivering goods to wholesalers <input type="checkbox"/> 4</p> <p>Delivery of materials or Fuels to factories <input type="checkbox"/> 5</p> <p>Delivery of goods to road works or building sites <input type="checkbox"/> 6</p> <p>Carriage of livestock <input type="checkbox"/> 7</p> <p>Carriage of other farm produce from farms <input type="checkbox"/> 8</p> <p>Carriage of fertilisers, feeding stuffs etc. to farms <input type="checkbox"/> 9</p> <p>Other work (specify ..... ) <input type="checkbox"/> 0</p>
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**8. POSITION OF AXLES (please ✓ box which describes the positions of the axles on the vehicle and on the trailer, if a trailer was used during the week)**

RIGID	RIGID + TRAILER	ARTICULATED
 OR  <input type="checkbox"/> 11	 <input type="checkbox"/> 26	 <input type="checkbox"/> 31
 <input type="checkbox"/> 12	 <input type="checkbox"/> 21	 <input type="checkbox"/> 32
 <input type="checkbox"/> 13	 <input type="checkbox"/> 22	 <input type="checkbox"/> 33
 <input type="checkbox"/> 14	 <input type="checkbox"/> 23	 <input type="checkbox"/> 34
Other Rigid..... <input type="checkbox"/> 15	 <input type="checkbox"/> 24	 <input type="checkbox"/> 36
	Other Rigid + Trailer..... <input type="checkbox"/> 25	Other Articulated..... <input type="checkbox"/> 35

**CERTIFICATION**

I hereby declare that the information given in this return is complete and accurate to the best of my knowledge.

Signature .....	Date .....
Status .....	Phone .....

(Owner, Secretary, etc.)

# NATIONAL SURVEY OF TRANSPORT OF GOODS BY ROAD

## INSTRUCTIONS FOR COMPLETION OF QUESTIONNAIRE

- **Complete Pages 1 and 4 immediately.** The Questionnaire should accompany the vehicle and details of each journey made by the vehicle during the survey week should be recorded at the end of each day as shown in the examples.
- If the vehicle was leased or rented to another party during the Survey week, please ensure that the details of all journeys made are recorded for entry on the questionnaire.
- The details requested in **questions 4 and 5** on the carrying capacity of Vehicle/Trailer can be obtained from the Vehicle/Trailer Handbook, if not please give your best estimate.
- For all journeys, the **weight of goods carried** (column 5) should be the weight of the load at the **start** of the journey.

### Single Delivery/Collection Journey

- See example 1 overleaf

### Multiple Delivery/Collection Journey

- See example 2 overleaf

### International Journeys

- The distance travelled - (at columns 6 and 7) should **exclude** the distance for which the vehicle was carried by sea on ferries
- The ferry route used should be entered under Origin (column 2)
- The origin and destination (town/city) of the entire journey should be stated. List also all countries crossed in transit under columns 2 and 3
- See **example 3 overleaf** which gives details on how to complete the questionnaire in respect of a journey falling partially within the survey week

### Dangerous Goods

Please record if the goods are classified as dangerous by adding to the description of the type of goods one of the following codes:

<b>DG10</b> - Explosives	<b>DG52</b> - Organic peroxides
<b>DG20</b> - Gases	<b>DG61</b> - Poisonous (toxic) substances
<b>DG30</b> - Flammable liquid	<b>DG62</b> - Infectious materials
<b>DG41</b> - Flammable solids	<b>DG70</b> - Radioactive materials
<b>DG42</b> - Substances liable to spontaneous combustion	<b>DG80</b> - Corrosive materials
<b>DG43</b> - Substances which catch fire in contact with water	<b>DG90</b> - Other
<b>DG51</b> - Oxidising substances	

### Demountable Containers or Lift Vans

#### Full

- State weight of goods carried only (exclude weight of container/lift van)
- Include weight of normal packaging

#### Empty

- Write 'Empty Container' under type of goods carried (column 4)
- State weight of container/lift van under weight of goods carried (column 5)

