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Road Freight Transport Survey

2004

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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 2004. 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

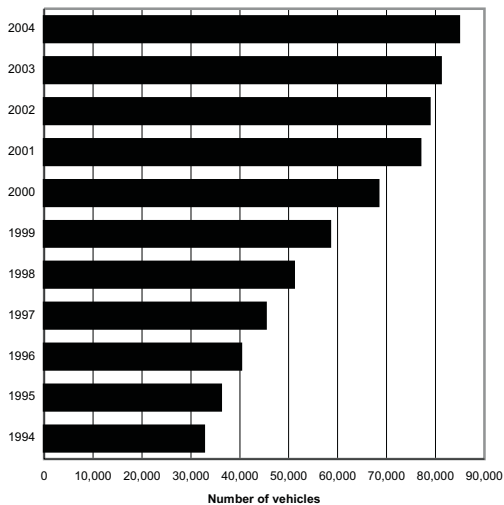
The report covers the survey period beginning on 1 January 2004 and ending on 31 December 2004. Irish registered vehicles belonging to the motor taxation class *goods vehicles with an unladen weight of 2 tonnes and over* came within the scope of the survey.

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 2004

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



In 2004, Irish registered goods vehicles transported a total of over 283 million tonnes of goods by road. This represents an increase of 9% on the previous year and an increase of 235% over the last ten years. Activity in terms of tonne-kilometres increased by 9% from 15,898 million in 2003 to 17,288 million in 2004. There was an increase of 229% in the figure for tonne-kilometres over the ten-year period from 1994 to 2004. The figure for vehicle kilometres travelled by Irish registered goods vehicles increased considerably also. A total of 2,342 million vehicle kilometres were travelled in 2004, an increase of over 10% on the 2003 figure of 2,124 million and an increase of 184% on the 1994 figure.

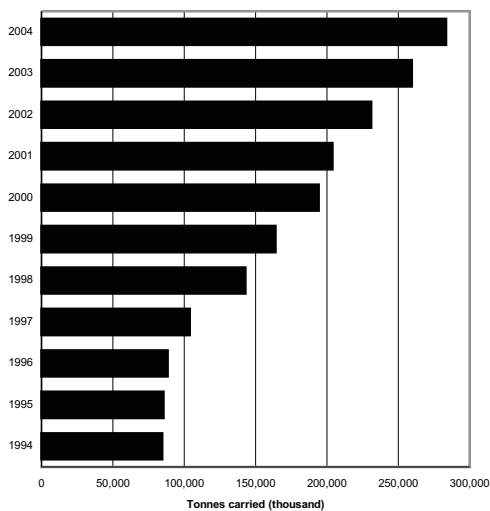
The average number of goods vehicles with an unladen weight of 2 tonnes and over, under current license during 2004 was 84,747, representing an increase of almost 5% on the 2003 figure. The fleet size increased by 159% since 1994. These goods vehicles completed over 22 million loaded journeys in 2004, 7% more than in 2003 and 249% more than in 1994.

Table A.1 below shows a record of the main figures for the years 1994 to 2004. (See Charts 1 and 2).

Table A.1

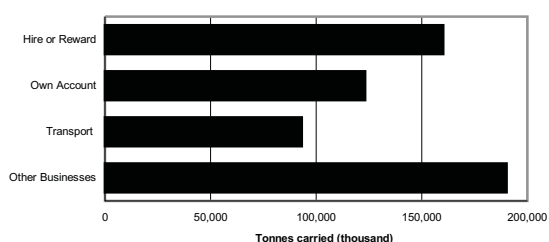
Year	Tonne-Kilometres <i>million</i>	Tonnes Carried <i>thousand</i>	Vehicle Kilometres <i>million</i>	Average Number of Vehicles
1994	5,258	84,587	826	32,669
1995	5,493	85,317	974	36,107
1996	6,316	88,322	1,175	40,255
1997	6,998	103,836	1,208	45,256
1998	8,203	142,911	1,344	51,037
1999	10,275	163,972	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
2004	17,288	283,334	2,342	84,747

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 57% of the total weight of goods carried in 2004. These vehicles also performed 70% of the total activity in terms of tonne-kilometres and travelled 56% of total vehicle kilometres. Given that these vehicles accounted for only 27% 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 16% were idle during any one survey week as compared to 35% of vehicles used mainly for own account transport. Vehicles used mainly for hire or reward transport accounted for 33% 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	
	million	%	thousand	%	million	%
Hire or Reward	12,015	69.5	160,223	56.5	1,315	56.1
Own Account	5,274	30.5	123,110	43.5	1,027	43.9
Total	17,288	100.0	283,334	100.0	2,342	100.0

Chart 4: Activity in tonne-kilometres

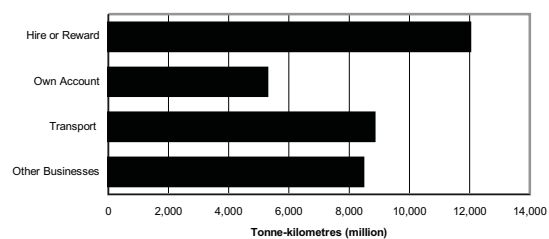
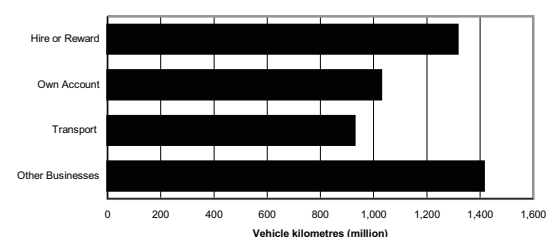


Table B.2

Main use of Vehicle	Number of Vehicles		Relevant Vehicles		Idle Vehicles	
		%		%		%
Hire or Reward	22,758	26.9	21,840	32.6	3,555	18.3
Own Account	61,989	73.1	45,092	67.4	15,870	81.7
Total	84,747	100.0	66,931	100.0	19,425	100.0

Chart 5: Vehicle kilometres travelled



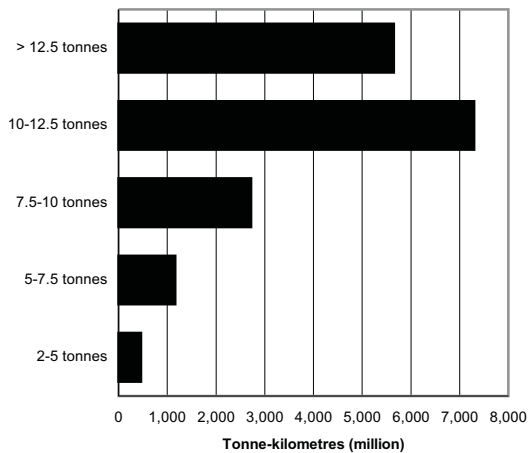
Business of Owner

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.

51% of total activity in terms of tonne-kilometres was performed by vehicles owned by transport businesses. These vehicles transported 33% of the total weight of goods carried and travelled 40% of the total vehicle kilometres. Vehicles owned by transport businesses were responsible for almost 27% of all laden journeys. (See Table C.1 and Charts 3, 4 and 5).

Table C.1

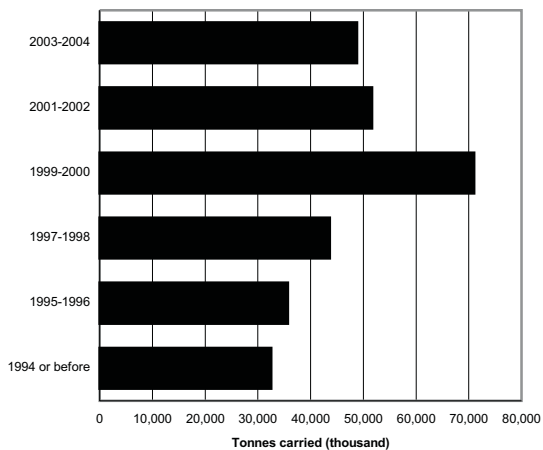
Business of owner	Tonne-Kilometres		Tonnes Carried		Vehicle Kilometres		Laden Journeys	
	<i>million</i>	<i>%</i>	<i>thousand</i>	<i>%</i>	<i>million</i>	<i>%</i>	<i>thousand</i>	<i>%</i>
Transport	8,830	51.1	93,231	32.9	928	39.6	5,956	26.6
Other	8,458	48.9	190,103	67.1	1,414	60.4	16,439	73.4
Total	17,288	100.0	283,334	100.0	2,342	100.0	22,395	100.0

Chart 6: Activity in tonne-kilometres by unladen weight**Size of Vehicles in Fleet**

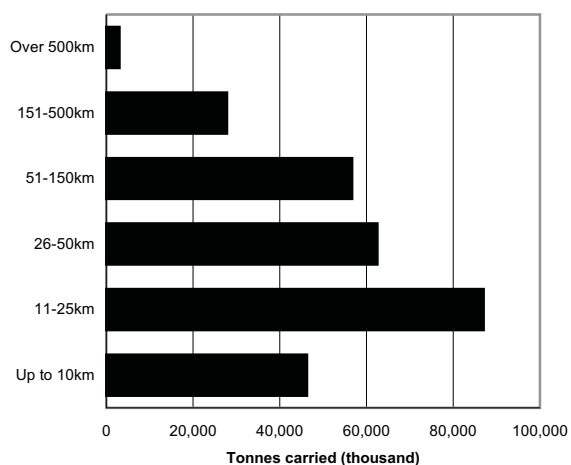
It can be seen from the table below that the smallest vehicles, in the “2 to 5 tonnes” unladen weight category, accounted for almost 46% of the vehicle fleet. However such vehicles were responsible for only 4% of the total weight of goods transported and almost 3% of activity in terms of tonne-kilometres. Their share of total vehicle kilometres was larger at 19%. Vehicles in the unladen weight category “10 to 12.5 tonnes” accounted for 17% 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 30% of total vehicle kilometres travelled and almost 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 over a third of the total weight of goods carried. They travelled 22% of total vehicle kilometres and were responsible for 33% 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>%</i>	<i>thousand</i>	<i>%</i>	<i>million</i>	<i>%</i>	<i>%</i>	<i>%</i>
2-5	459	2.7	10,410	3.7	449	19.2	38,604	45.6
5-7.5	1,165	6.7	13,800	4.9	259	11.0	10,352	12.2
7.5-10	2,717	15.7	40,863	14.4	424	18.1	12,501	14.8
10-12.5	7,297	42.2	121,389	42.8	700	29.9	14,115	16.6
Over 12.5	5,650	32.7	96,871	34.2	510	21.8	9,175	10.8
Total	17,288	100.0	283,334	100.0	2,342	100.0	84,747	100.0

Chart 7: Weight of goods carried by year of manufacture of vehicle**Age of Fleet**

In 2004, vehicles manufactured from 2001 onwards accounted for 31% of the vehicle fleet. These vehicles transported 35% of the total weight of goods carried, travelled 40% of the total vehicle kilometres and were responsible for 41% of total activity in terms of tonne-kilometres. The oldest vehicles, those manufactured in 1994 or before, accounted for 24% of the vehicle fleet but were not used as intensively as the newer vehicles. They were responsible for only 7% of total activity in tonne-kilometres. They transported 12% of the total weight of goods carried and travelled 10% of total vehicle kilometres. (See Table E.1 and Chart 7).

Chart 8: Weight of goods carried by length of haul**Table E.1**

Year of Manufacture	Tonne-Kilometres		Tonnes Carried		Vehicle Kilometres		No. of Vehicles	
	<i>million</i>	%	<i>thousand</i>	%	<i>million</i>	%		%
2003 - 2004	3,659	21.2	48,812	17.2	472	20.2	12,682	15.0
2001 - 2002	3,462	20.0	51,626	18.2	469	20.0	13,395	15.8
1999 - 2000	4,322	25.0	71,035	25.1	552	23.6	15,274	18.0
1997 - 1998	2,546	14.7	43,627	15.4	345	14.7	11,351	13.4
1995 - 1996	2,034	11.8	35,715	12.6	282	12.0	11,707	13.8
1994 or before	1,266	7.3	32,519	11.5	222	9.5	20,338	24.0
Total	17,288	100.0	283,334	100.0	2,342	100.0	84,747	100.0

Length of Haul

Almost half of the total weight of goods carried in 2004 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 9% of total tonne-kilometres. Journeys of 151km or over accounted for 52% of activity in terms of tonne-kilometres and almost a third 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	234	1.4	46,294	16.3	895	38.2
11 to 25 km	1,389	8.0	87,001	30.7	108	4.6
26 to 50 km	2,198	12.7	62,539	22.1	173	7.4
51 to 150 km	4,551	26.3	56,659	20.0	405	17.3
151 to 500 km	6,009	34.8	27,802	9.8	552	23.6
Over 500 km	2,908	16.8	3,039	1.1	209	8.9
Total	17,288	100.0	283,334	100.0	2,342	100.0

Chart 9: Tonnes Carried by Commodity

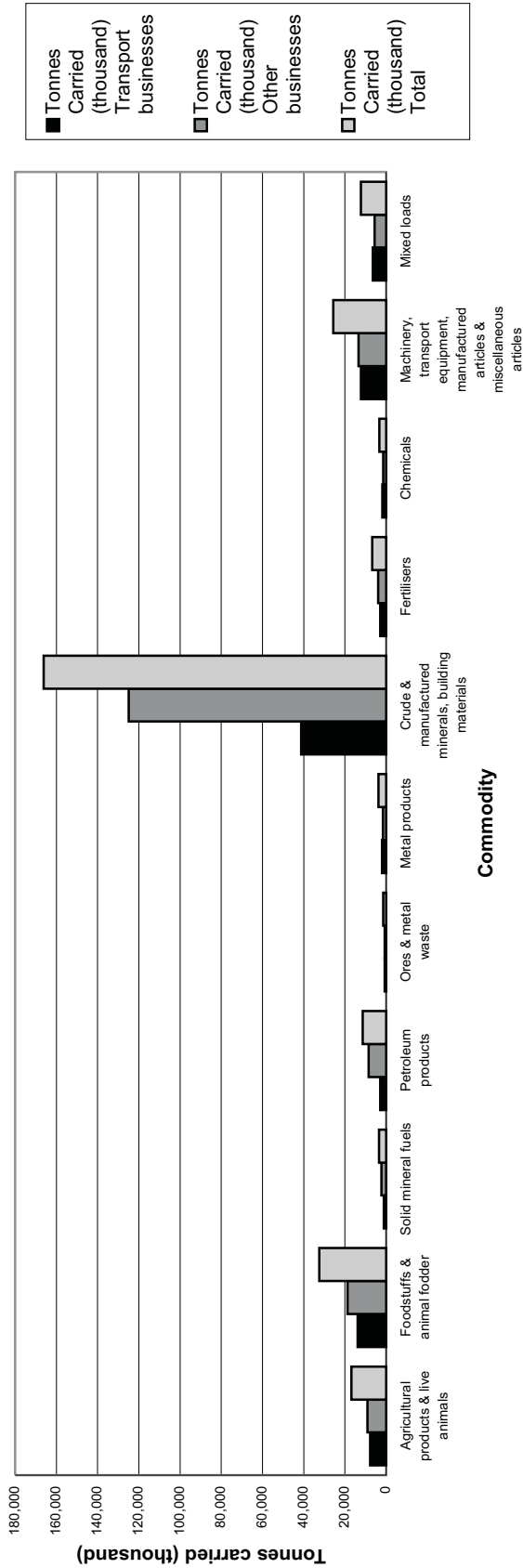
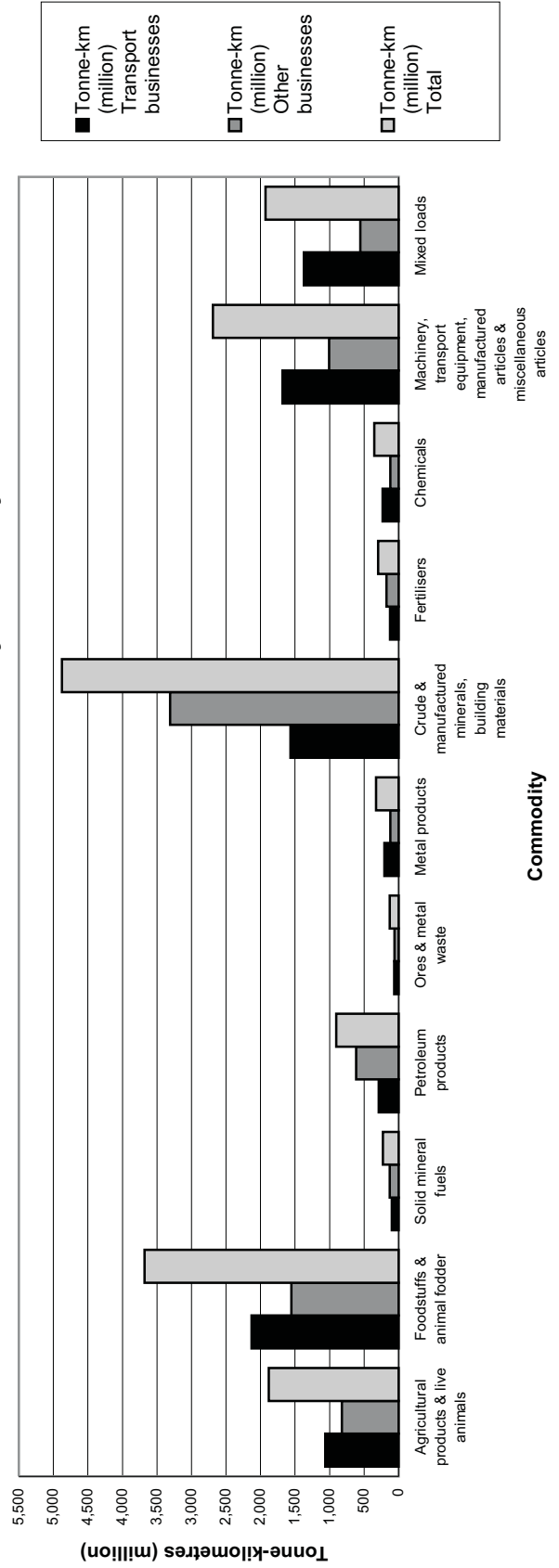


Chart 10: Tonne-Kilometres by Commodity



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) and the composition of this classification is shown in Appendix C.

Table G.1

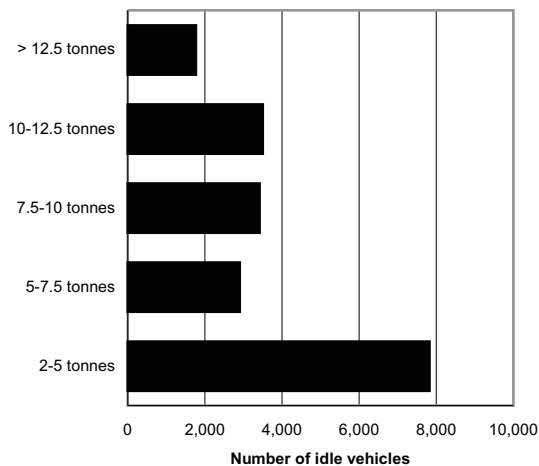
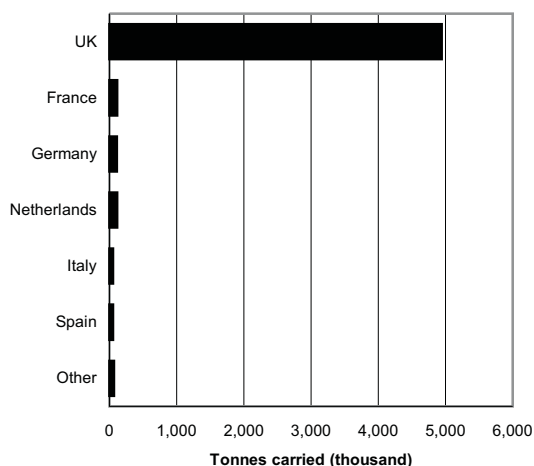
Commodity	Transport Businesses		Other Businesses		Total	
	Tonne-Kilometres	Tonnes Carried	Tonne-Kilometres	Tonnes Carried	Tonne-Kilometres	Tonnes Carried
	<i>million</i>	<i>thousand</i>	<i>million</i>	<i>thousand</i>	<i>million</i>	<i>thousand</i>
Agricultural Products & Live						
Animals	1,062	7,772	820	9,052	1,882	16,825
Foodstuffs and Animal						
Fodder	2,129	13,789	1,552	18,698	3,681	32,487
Solid Mineral Fuels	101	1,126	127	2,280	228	3,406
Petroleum Products	288	2,893	614	8,448	902	11,341
Ores and Metal Waste	65	735	62	728	127	1,462
Metal Products	205	2,035	120	1,652	325	3,687
Crude and Manufactured						
Minerals, Building Materials	1,566	41,211	3,310	124,908	4,876	166,119
Fertilisers	123	2,866	175	3,937	298	6,803
Chemicals	232	1,912	120	1,388	352	3,300
Machinery, Transport						
Equipment, Manufactured						
Articles & Miscellaneous						
Articles	1,683	12,330	1,005	13,367	2,688	25,698
Mixed Loads	1,374	6,561	555	5,644	1,929	12,205
Total	8,828	93,230	8,460	190,102	17,288	283,334

Almost 59% of the total weight of goods carried were in the group *Crude and Manufactured Minerals, Building Materials*. This group accounted for 44% of the weight of goods carried by vehicles owned by transport businesses and 66% 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 28% share of the total. The second largest group in terms of tonne-kilometres was *Foodstuffs and Animal Fodder*, which accounted for 21% of total tonne-kilometres. This group accounted for only 11% 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	38,604	7,826	14,639
5-7.5 tonnes	10,352	2,907	1,366
7.5-10 tonnes	12,501	3,416	907
10-12.5 tonnes	14,115	3,506	565
Over 12.5 tonnes	9,175	1,769	338
Total	84,747	19,425	17,816

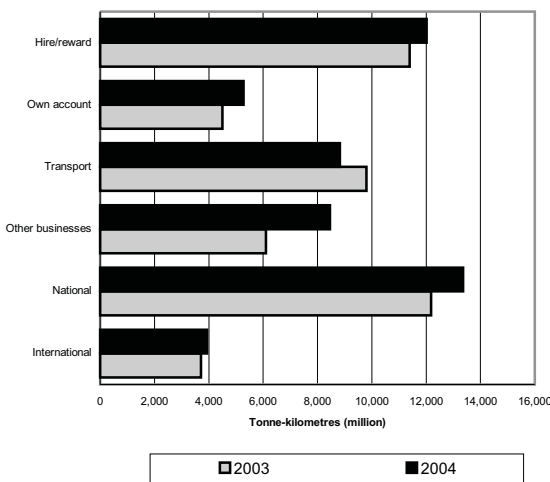
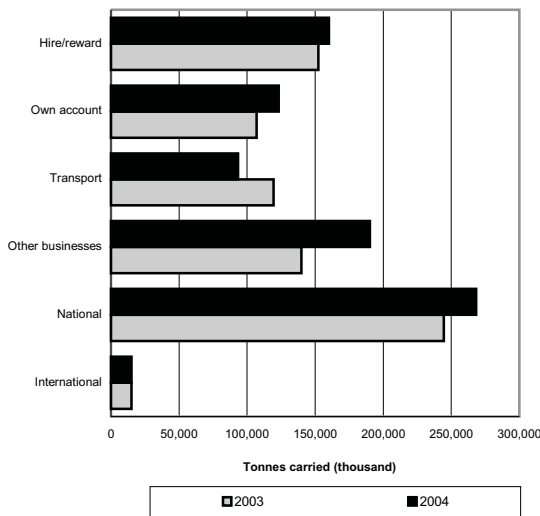
On average, 23% of the vehicle fleet was idle in any one week during the year. This percentage was largest at 28% for vehicles in the unladen weight category "5 to 7.5 tonnes" and smallest at 19% for vehicles in the unladen weight category "Over 12.5 tonnes". Vehicles regarded as non-relevant accounted 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 4% of vehicles in the unladen weight categories "10 to 12.5 tonnes" and "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 4,942 thousand tonnes of goods from the UK to Ireland and 3,913 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 91% of all tonnage received from abroad and goods dispatched to the UK accounted for almost 86% 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	4,942	90.7	3,913	85.5
France	115	2.1	178	3.9
Germany	109	2.0	127	2.8
Netherlands	112	2.1	109	2.4
Italy	50	0.9	75	1.6
Spain	52	1.0	74	1.6
Other Countries	68	1.2	100	2.2
Total	5,448	100.0	4,576	100.0

Chart 13: Activity in terms of tonne-kilometres**Chart 14: Weight of goods carried****Comparison with 2003 Results**

Vehicles used mainly for hire or reward transport carried over 160 million tonnes of goods in 2004, an increase of over 5% on the 2003 figures. Activity in terms of tonne-kilometres for hire or reward transport increased by 5.5% while there was an increase of 6.5% in vehicle kilometres travelled on the 2003 figures. In 2004 vehicles used mainly for hire or reward transport carried 57% of the total weight of goods as compared to 59% in 2003. The weight of goods carried on own account transport increased by 15% between 2003 and 2004, tonne-kilometres increased by 17% and vehicle kilometres increased by almost 16%.

The weight of goods carried by vehicles owned by transport businesses decreased by 22% between 2003 and 2004. Activity in terms of tonne-kilometres decreased by 10% and vehicle kilometres also decreased by 10% on the 2003 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 36%, activity in terms of tonne-kilometres increased by 39% and vehicle kilometres increased by 29%. Vehicles owned by transport businesses carried 33% of the total weight of goods transported in 2004 as compared to their 46% share in 2003.

Between 2003 and 2004, the weight of goods carried on national journeys increased by 10% while the weight of goods carried on international journeys showed a marginal increase of 0.1%. In 2004, national transport accounted for 95% of the total weight of goods carried, compared with 94% in 2003. National transport activity in terms of tonne-kilometres increased by 10% between 2003 and 2004, while international transport activity increased by 6%. Vehicle kilometres travelled on national journeys increased by 11% and vehicle kilometres travelled on international journeys increased by 6%. (See Table J.1 and Charts 13 and 14).

Table J.1

	Owner, Use, National/International		Tonne-Kilometres		Tonnes Carried		Vehicle Kilometers		
	2003	2004	2003	2004	2003	2004	2003	2004	
	<i>million</i>		<i>thousand</i>		<i>thousand</i>		<i>million</i>		
		<i>% Change</i>		<i>% Change</i>		<i>% Change</i>		<i>% Change</i>	
Business of Owner									
Transport	9,797	8,830	-9.9	119,529	93,231	-22.0	1,030	928	-9.9
Other	6,101	8,458	38.6	139,936	190,103	35.8	1,094	1,414	29.3
Main Use of Vehicle									
Hire or Reward	11,394	12,015	5.5	152,456	160,223	5.1	1,235	1,315	6.5
Own Account	4,504	5,274	17.1	107,009	123,110	15.0	888	1,027	15.7
National/International									
National	12,181	13,357	9.7	244,469	268,323	9.8	1,802	2,000	11.0
International	3,717	3,931	5.8	14,996	15,011	0.1	322	342	6.2
Total	15,898	17,288	8.7	259,465	283,334	9.2	2,124	2,342	10.3

Chapter 2

Detailed Results

Table 1 Transport Activity classified by Business of owner and Main use of vehicle, 2004

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	8,830	8,830	0	93,231	93,231
Manufacturing industry	1,801	0	1,801	44,134	2	44,136
Mining & quarrying (incl. sand & gravel merchants)	495	0	495	19,983	0	19,983
Creameries & agricultural cooperative societies	94	0	94	2,404	0	2,404
Manufacture of food & feeding stuffs	256	0	256	2,426	2	2,428
Manufacture of drink & tobacco	90	0	90	674	0	674
Manufacture of glass, cement & clay products	514	0	514	15,198	0	15,198
Other manufacturing	352	0	352	3,449	0	3,449
Building & Construction	482	0	482	19,100	0	19,100
Distribution	2,165	2,863	5,028	38,283	61,925	100,209
Agriculture & livestock dealing	203	18	221	4,069	306	4,375
Local Authorities	195	0	195	6,925	0	6,925
Other	428	303	731	10,599	4,760	15,358
Total	5,274	12,015	17,288	123,110	160,223	283,334

Table 2 Transport Activity classified by Vehicle capacity, National/International journeys and Main use of vehicle, 2004

Type of Journey and Vehicle Capacity	Tonne-km (million)			Tonnes carried (thousand)		
	Own Account	Hire or Reward	Total	Own Account	Hire or Reward	Total
National journeys						
Vehicle capacity (kg)						
Up to 5,000	120	35	156	2,986	1,054	4,040
5,001 - 10,000	207	121	328	5,698	1,662	7,361
10,001 - 15,000	394	354	748	7,681	4,058	11,739
15,001 - 20,000	753	1,058	1,811	18,445	18,737	37,182
20,001 - 25,000	100	236	336	2,553	3,962	6,514
25,001 - 35,000	2,493	5,412	7,905	69,029	103,909	172,938
Over 35,000	874	1,199	2,073	11,893	16,655	28,548
Total	4,941	8,416	13,358	118,284	150,038	268,323
International journeys						
Vehicle capacity (kg)						
Up to 5,000	4	0	4	23	1	24
5,001 - 10,000	16	3	19	48	14	62
10,001 - 15,000	21	205	226	115	358	473
15,001 - 20,000	40	618	658	860	943	1,803
20,001 - 25,000	6	197	203	150	351	500
25,001 - 35,000	163	1,944	2,107	2,645	6,917	9,562
Over 35,000	82	631	713	985	1,601	2,586
Total	332	3,599	3,931	4,826	10,185	15,011
Total						
Vehicle capacity (kg)						
Up to 5,000	125	35	160	3,008	1,055	4,064
5,001 - 10,000	222	124	347	5,747	1,676	7,423
10,001 - 15,000	415	559	975	7,796	4,416	12,212
15,001 - 20,000	793	1,676	2,469	19,305	19,681	38,985
20,001 - 25,000	106	433	539	2,702	4,313	7,015
25,001 - 35,000	2,656	7,356	10,013	71,674	110,826	182,500
Over 35,000	956	1,830	2,786	12,878	18,256	31,134
Total	5,274	12,015	17,288	123,110	160,223	283,334

Table 3 Transport Activity classified by Business of owner, Unladen weight and Main use of vehicle, 2004

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
Transport						
Unladen weight (kg)						
2,000 - 5,000	0	83	83	0	1,675	1,675
5,001 - 7,500	0	548	548	0	3,311	3,311
7,501 - 10,000	0	1,491	1,491	0	15,551	15,551
10,001 - 12,500	0	4,105	4,105	0	43,674	43,674
Over 12,500	0	2,603	2,603	0	29,020	29,020
Total	0	8,830	8,830	0	93,231	93,231
Other businesses						
Unladen weight (kg)						
2,000 - 5,000	320	57	376	7,920	815	8,735
5,001 - 7,500	418	199	617	8,048	2,441	10,489
7,501 - 10,000	796	430	1,226	18,965	6,348	25,313
10,001 - 12,500	1,622	1,570	3,192	44,070	33,646	77,715
Over 12,500	2,118	929	3,047	44,108	23,743	67,851
Total	5,274	3,185	8,458	123,110	66,992	190,103
Total						
Unladen weight (kg)						
2,000 - 5,000	320	139	459	7,920	2,490	10,410
5,001 - 7,500	418	747	1,165	8,048	5,752	13,800
7,501 - 10,000	796	1,922	2,717	18,965	21,899	40,863
10,001 - 12,500	1,622	5,675	7,297	44,070	77,320	121,389
Over 12,500	2,118	3,532	5,650	44,108	52,763	96,871
Total	5,274	12,015	17,288	123,110	160,223	283,334

Table 4 Transport Activity classified by Region of origin and Main use of vehicle, 2004

Region of Origin	Tonne-km (million)			Tonnes carried (thousand)		
	Own Account	Hire or Reward	Total	Own Account	Hire or Reward	Total
Border	708	1,260	1,968	15,556	17,397	32,953
Midland	335	524	859	9,758	7,691	17,449
West	584	749	1,332	15,754	13,033	28,787
Dublin	938	2,066	3,004	19,261	32,469	51,729
Mid-East	574	1,226	1,800	16,355	24,632	40,987
Mid-West	466	1,006	1,472	13,170	16,114	29,283
South-East	600	1,541	2,141	10,999	18,359	29,358
South-West	870	1,601	2,471	18,614	23,739	42,353
Other	198	2,042	2,241	3,645	6,790	10,435
Total	5,274	12,015	17,288	123,110	160,223	283,334

Table 5 Transport Activity classified by Business of owner, Length of haul and Main use of vehicle, 2004

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
Transport						
Length of haul (km)						
Up to 10	0	53	53	0	11,004	11,004
11-25	0	385	385	0	23,961	23,961
26-50	0	689	689	0	18,453	18,453
51-150	0	1,938	1,938	0	22,696	22,696
151-500	0	3,443	3,443	0	14,827	14,827
Over 500	0	2,323	2,323	0	2,289	2,289
Total	0	8,830	8,830	0	93,231	93,231
Other businesses						
Length of haul (km)						
Up to 10	123	58	181	24,466	10,824	35,290
11-25	640	364	1,004	40,675	22,365	63,040
26-50	923	586	1,509	27,637	16,449	44,086
51-150	1,632	981	2,613	21,620	12,343	33,963
151-500	1,584	982	2,566	8,248	4,727	12,975
Over 500	371	213	585	464	286	749
Total	5,274	3,185	8,458	123,110	66,992	190,103
Total						
Length of haul (km)						
Up to 10	123	111	234	24,466	21,828	46,294
11-25	640	749	1,389	40,675	46,326	87,001
26-50	923	1,275	2,198	27,637	34,902	62,539
51-150	1,632	2,919	4,551	21,620	35,038	56,659
151-500	1,584	4,425	6,009	8,248	19,554	27,802
Over 500	371	2,537	2,908	464	2,575	3,039
Total	5,274	12,015	17,288	123,110	160,223	283,334

Table 6 Transport Activity classified by Main type of work and Main use of vehicle, 2004

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 ¹	58	4,030	4,088	324	16,031	16,355
Carriage of livestock	63	103	167	977	989	1,966
Carriage of other farm produce from farms	95	160	255	2,687	3,369	6,056
Carriage of fertilisers, feedingstuffs etc. to farms	195	357	552	2,748	5,178	7,927
Delivery of goods to road works or building sites	1,558	1,984	3,542	63,160	73,034	136,194
Delivery of goods to retail outlets	971	1,253	2,224	11,419	13,384	24,803
Delivery of goods to wholesalers	401	1,058	1,459	3,425	9,367	12,792
Delivery of materials and fuels to factories	182	1,208	1,390	2,119	14,548	16,667
Delivery of goods to households	281	45	326	5,225	1,093	6,318
Other work	1,470	1,817	3,287	31,026	23,230	54,256
Total	5,274	12,015	17,288	123,110	160,223	283,334

¹ 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, 2004

Type of Journey	Tonne-km (million)			Tonnes carried (thousand)		
	Own Account	Hire or Reward	Total	Own Account	Hire or Reward	Total
National Journeys	4,941	8,416	13,358	118,284	150,038	268,323
International Journeys						
Goods loaded in Ireland	134	1,555	1,689	1,181	3,394	4,575
Goods unloaded in Ireland	150	1,231	1,382	2,069	3,378	5,447
Cross trade	0	354	354	0	306	306
Cabotage	48	457	505	1,576	3,106	4,682
Total International	332	3,597	3,930	4,826	10,184	15,010
Total	5,274	12,015	17,288	123,110	160,223	283,334

Table 8 Transport Activity classified by National/International journeys, Quarter and Main use of vehicle, 2004

National/International and Quarter	Tonne-km (million)			Tonnes carried (thousand)		
	Own Account	Hire or Reward	Total	Own Account	Hire or Reward	Total
National journeys						
January - March	1,221	2,198	3,419	30,210	39,692	69,902
April - June	1,334	2,086	3,420	32,262	36,005	68,268
July - September	1,200	2,096	3,296	24,571	39,447	64,018
October - December	1,186	2,036	3,222	31,241	34,894	66,135
Total	4,941	8,416	13,358	118,284	150,038	268,323
International journeys						
January - March	78	963	1,042	1,373	2,374	3,748
April - June	57	908	964	1,164	2,915	4,078
July - September	91	875	965	1,019	2,387	3,407
October - December	107	853	960	1,270	2,508	3,778
Total	332	3,599	3,931	4,826	10,185	15,011
Total						
January - March	1,299	3,162	4,461	31,583	42,066	73,649
April - June	1,390	2,994	4,384	33,426	38,920	72,346
July - September	1,291	2,970	4,261	25,590	41,834	67,424
October - December	1,293	2,889	4,182	32,511	37,403	69,914
Total	5,274	12,015	17,288	123,110	160,223	283,334

Table 9 Transport Activity classified by Group of goods and National/International journeys, 2004

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	1,319	563	1,882	15,252	1,573	16,825
Foodstuffs & animal fodder	2,485	1,196	3,681	29,883	2,604	32,487
Solid mineral fuels	197	31	228	3,150	256	3,406
Petroleum products	889	13	902	11,187	155	11,341
Ores & metal waste	104	23	127	1,342	120	1,462
Metal products	247	78	325	3,275	412	3,687
Crude & manufactured minerals, building materials	4,586	290	4,876	160,326	5,794	166,119
Fertilisers	277	21	298	6,655	148	6,803
Chemicals	218	134	352	2,955	345	3,300
Machinery, transport equipment, manufactured articles & miscellaneous articles	1,906	783	2,688	23,605	2,093	25,698
Mixed loads	1,130	799	1,929	10,693	1,512	12,205
Total	13,358	3,931	17,288	268,323	15,011	283,334

Table 10 Transport Activity classified by Group of goods and Main use of vehicle, 2004

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	425	1,457	1,882	5,285	11,539	16,825
Foodstuffs & animal fodder	921	2,760	3,681	11,454	21,033	32,487
Solid mineral fuels	81	147	228	1,784	1,622	3,406
Petroleum products	540	362	902	7,771	3,570	11,341
Ores & metal waste	39	88	127	384	1,079	1,462
Metal products	80	245	325	1,278	2,410	3,687
Crude & manufactured minerals, building materials	1,989	2,887	4,876	77,356	88,763	166,119
Fertilisers	114	184	298	2,977	3,826	6,803
Chemicals	57	295	352	684	2,617	3,300
Machinery, transport equipment, manufactured articles & miscellaneous articles	715	1,974	2,688	10,693	15,004	25,698
Mixed loads	313	1,616	1,929	3,446	8,759	12,205
Total	5,274	12,015	17,288	123,110	160,223	283,334

Table 11 Average Number of vehicles classified by Unladen weight, Year of manufacture and Main use of vehicle, 2004

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
Unladen weight (kg)						
2,000 - 5,000	35,037	3,567	38,604	20,917	3,048	23,965
5,001 - 7,500	7,704	2,648	10,352	6,463	2,523	8,986
7,501 - 10,000	7,827	4,674	12,501	7,025	4,569	11,594
10,001 - 12,500	6,444	7,672	14,115	6,007	7,543	13,550
Over 12,500	4,977	4,198	9,175	4,680	4,157	8,837
Total	61,989	22,758	84,747	45,092	21,840	66,931
Year of manufacture						
2003-2004	9,160	3,522	12,682	5,696	3,336	9,032
2001-2002	9,851	3,544	13,395	6,426	3,328	9,754
1999-2000	10,398	4,876	15,274	7,804	4,738	12,542
1997-1998	7,792	3,559	11,351	6,198	3,517	9,715
1995-1996	8,174	3,533	11,707	6,283	3,422	9,705
1994 or before	16,614	3,724	20,338	12,685	3,499	16,183
Total	61,989	22,758	84,747	45,092	21,840	66,931

Table 12 Transport Activity classified by Year of manufacture and Main use of vehicle, 2004

Year of manufacture of vehicle	Tonne-km (million)			Tonnes carried (thousand)		
	Own Account	Hire or Reward	Total	Own Account	Hire or Reward	Total
2003-2004	916	2,742	3,659	21,065	27,747	48,812
2001-2002	1,173	2,289	3,462	23,343	28,283	51,626
1999-2000	1,347	2,975	4,322	30,767	40,268	71,035
1997-1998	709	1,837	2,546	18,190	25,437	43,627
1995-1996	590	1,444	2,034	14,312	21,403	35,715
1994 or before	539	727	1,266	15,434	17,085	32,519
Total	5,274	12,015	17,288	123,110	160,223	283,334

Table 13 Transport Activity classified by Body type and Main use of vehicle, 2004

Type of vehicle and Body type	Tonne-km (million)			Tonnes carried (thousand)		
	Own Account	Hire or Reward	Total	Own Account	Hire or Reward	Total
Rigid/Rigid with Trailer						
Platform or sided	301	316	617	6,658	6,123	12,781
Tipper	971	962	1,933	46,041	45,192	91,233
Tanker or other bulk carrier	393	88	481	7,803	2,874	10,677
Insulated or refrigerated box	152	134	286	2,373	1,204	3,577
Box or van body	393	344	737	5,177	3,427	8,605
Livestock carrier	34	33	67	418	507	925
Other	635	773	1,408	18,751	17,592	36,343
Total	2,878	2,651	5,529	87,220	76,920	164,140
Articulated						
Platform or sided	307	1,752	2,059	3,312	13,951	17,263
Tipper	315	1,267	1,582	10,922	24,562	35,484
Tanker or other bulk carrier	635	1,161	1,795	7,921	13,859	21,780
Insulated or refrigerated box	257	1,706	1,963	1,354	4,618	5,973
Box or van body	155	850	1,005	960	4,030	4,990
Livestock carrier	7	67	74	83	427	510
Other	720	2,561	3,281	11,338	21,855	33,193
Total	2,395	9,364	11,760	35,890	83,303	119,194
All Vehicles						
Platform or sided	608	2,067	2,676	9,970	20,075	30,044
Tipper	1,286	2,229	3,515	56,963	69,754	126,717
Tanker or other bulk carrier	1,028	1,249	2,276	15,724	16,733	32,457
Insulated or refrigerated box	408	1,841	2,249	3,727	5,822	9,549
Box or van body	548	1,194	1,742	6,137	7,457	13,594
Livestock carrier	41	101	141	501	935	1,436
Other	1,355	3,334	4,689	30,088	39,447	69,536
Total	5,274	12,015	17,288	123,110	160,223	283,334

Table 14 Vehicle Kilometres travelled classified by Business of owner and Main use of vehicle, 2004

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	624	624	0	928	928
Manufacturing industry	157	0	158	276	0	276
Mining & quarrying (incl. sand & gravel merchants)	27	0	27	53	0	53
Creameries & agricultural cooperative societies	12	0	12	19	0	19
Manufacture of food & feeding stuffs	30	0	30	44	0	44
Manufacture of drink & tobacco	6	0	6	7	0	7
Manufacture of glass, cement & clay products	33	0	33	64	0	64
Other manufacturing	51	0	51	89	0	89
Building & Construction	59	0	59	106	0	106
Distribution	282	192	474	453	327	780
Agriculture & livestock dealing	30	3	32	56	4	61
Local Authorities	20	0	20	40	0	40
Other	61	38	99	96	56	152
Total	610	856	1,466	1,027	1,315	2,342

Table 15 Transport Activity classified by National/International Journeys, Axle configuration and Main use of Vehicle, 2004

Type of Journey and Axle Configuration	Tonne-km (million)			Tonnes carried (thousand)		
	Own Account	Hire or Reward	Total	Own Account	Hire or Reward	Total
National journeys						
Rigid						
2 axle	973	632	1,606	20,919	8,325	29,244
3 axle	555	386	941	14,709	9,771	24,480
Other rigid	1,156	1,305	2,461	47,833	55,684	103,517
Rigid + trailer	46	121	167	568	1,169	1,737
Articulated						
3 axle	74	168	242	2,108	2,431	4,539
4 axle	501	671	1,172	9,052	11,308	20,360
5 axle	1,293	4,085	5,378	18,230	48,058	66,288
Other articulated	342	1,049	1,391	4,864	13,293	18,157
Total	4,941	8,416	13,358	118,284	150,038	268,323
International journeys						
Rigid						
2 axle	42	62	104	234	157	391
3 axle	30	84	115	939	522	1,461
Other rigid	75	37	112	2,012	1,183	3,195
Rigid + trailer	0	23	24	5	110	115
Articulated						
3 axle	3	51	54	66	54	121
4 axle	17	123	140	363	436	799
5 axle	141	2,921	3,061	946	6,709	7,655
Other articulated	23	297	320	260	1,014	1,275
Total	332	3,599	3,931	4,826	10,185	15,011
Total						
Rigid						
2 axle	1,015	694	1,709	21,153	8,482	29,635
3 axle	586	470	1,056	15,648	10,292	25,941
Other rigid	1,231	1,342	2,573	49,845	56,867	106,712
Rigid + trailer	46	144	190	573	1,278	1,852
Articulated						
3 axle	77	219	296	2,174	2,485	4,659
4 axle	519	794	1,313	9,415	11,744	21,159
5 axle	1,434	7,006	8,440	19,177	54,767	73,943
Other articulated	365	1,346	1,711	5,125	14,308	19,432
Total	5,274	12,015	17,288	123,110	160,223	283,334

Table 16 Transport Activity classified by Region of origin and Region of destination, 2004

Region of Origin	Region of Destination									Total
	Border	Midland	West	Dublin	Mid-East	Mid-West	South-East	South-West	Other	
	Tonne-km (million)									
Border	799	75	132	253	89	47	119	57	397	1,968
Midland	83	305	99	118	37	30	84	56	47	859
West	130	75	731	152	48	41	64	23	67	1,332
Dublin	286	185	211	904	362	146	194	357	358	3,004
Mid-East	130	75	76	502	628	62	133	76	118	1,800
Mid-West	24	57	124	112	36	600	103	257	160	1,472
South-East	101	55	63	235	123	88	869	262	346	2,141
South-West	68	53	71	285	70	165	322	1,241	197	2,471
Other	234	31	57	589	121	79	129	143	859	2,241
Total	1,855	910	1,564	3,150	1,515	1,257	2,018	2,472	2,549	17,288
	Tonnes carried (thousand)									
Border	24,056	575	857	3,185	1,403	202	500	176	1,999	32,953
Midland	961	11,639	1,123	1,290	623	334	1,052	268	159	17,449
West	1,344	1,740	23,612	782	325	457	291	115	122	28,787
Dublin	2,567	1,702	1,032	32,647	9,260	764	1,422	1,412	923	51,729
Mid-East	2,127	1,478	403	11,232	23,305	368	1,439	320	314	40,987
Mid-West	101	702	914	625	215	22,124	1,369	3,027	207	29,283
South-East	404	840	283	1,688	1,450	1,053	20,788	2,257	594	29,358
South-West	203	254	306	1,097	298	1,424	2,424	36,091	257	42,353
Other	3,055	96	216	1,205	231	110	314	219	4,988	10,435
Total	34,817	19,027	28,747	53,752	37,109	26,835	29,599	43,884	9,564	283,334

Table 17 Vehicle Kilometres travelled classified by Region of origin and Region of destination, 2004

Region of Origin	Region of Destination										Total
	Border	Midland	West	Dublin	Mid-East	Mid-West	South-East	South-West	Other		
	Vehicle kilometres (million)										
Border	125	11	17	38	16	5	10	7	34	263	
Midland	11	49	14	24	10	7	10	6	4	135	
West	17	15	126	26	11	12	7	8	8	229	
Dublin	39	25	29	157	63	25	36	39	31	445	
Mid-East	16	10	10	63	88	8	18	11	12	236	
Mid-West	5	7	12	23	7	93	14	31	16	208	
South-East	10	8	7	36	18	14	125	34	23	274	
South-West	8	7	8	37	11	30	34	200	14	349	
Other	21	3	5	45	11	7	11	11	87	202	
Total	252	135	229	449	236	199	266	348	227	2,342	

Table 18 Transport Activity classified by Country of origin and Country of destination, 2004

Country of Origin	Country of Destination									
	Austria	Belgium	Denmark	Finland	France	Germany	Greece	Ireland	Italy	Luxembourg
	Tonne-km (million)									
Austria	0	0	0	0	0	0	0	0	0	0
Belgium	0	0	0	0	0	4	0	35	0	0
Denmark	0	0	0	0	0	1	0	6	0	0
Finland	0	0	0	0	0	0	0	0	0	0
France	0	0	0	0	18	7	0	99	3	0
Germany	0	3	0	0	1	8	0	143	16	0
Greece	0	0	0	0	0	0	0	0	0	0
Ireland	17	13	13	0	169	157	0	13,358	142	5
Italy	0	0	0	0	10	9	0	93	3	0
Luxembourg	0	0	0	0	0	1	0	3	0	0
Netherlands	0	1	0	0	0	0	0	103	0	0
Portugal	0	0	0	0	5	0	0	18	0	0
Spain	0	12	0	0	0	0	0	96	0	0
Sweden	0	0	0	0	0	0	0	6	0	0
United Kingdom	0	0	0	0	19	5	35	756	4	0
Other Countries	0	0	0	0	0	0	0	23	0	0
Total	17	29	13	0	223	192	35	14,739	168	5

**Table 18 Transport Activity classified by Country of origin and Country of destination, 2004
-continued**

Country of Origin	Country of Destination						Total
	Netherlands	Portugal	Spain	Sweden	United Kingdom	Other Countries	
Tonne-km (million)							
Austria	0	0	0	0	0	0	0
Belgium	0	0	0	0	2	0	40
Denmark	0	0	0	0	10	0	17
Finland	0	0	0	0	0	0	0
France	0	5	1	0	40	4	178
Germany	0	0	14	0	37	1	225
Greece	0	0	0	0	4	0	4
Ireland	112	34	154	35	781	57	15,048
Italy	0	0	0	0	13	0	129
Luxembourg	0	0	0	0	2	0	6
Netherlands	1	0	15	0	13	10	143
Portugal	0	0	2	0	0	0	25
Spain	0	0	9	0	16	0	133
Sweden	0	0	0	0	0	0	6
United Kingdom	0	0	0	0	465	0	1,284
Other Countries	0	0	0	0	27	0	50
Total	113	39	195	35	1,411	72	17,288

Table 19 Weight of goods carried classified by Country of origin and Country of destination, 2004

Country of Origin	Country of Destination									
	Austria	Belgium	Denmark	Finland	France	Germany	Greece	Ireland	Italy	Luxembourg
	Tonnes carried (thousand)									
Austria	0	0	0	0	0	0	0	0	0	0
Belgium	0	4	0	0	0	5	0	35	0	0
Denmark	0	0	0	0	0	1	0	4	0	0
Finland	0	0	0	0	0	0	0	0	0	0
France	0	1	0	0	37	11	0	115	3	0
Germany	0	5	0	0	2	19	0	109	15	0
Greece	0	0	0	0	0	0	0	0	0	0
Ireland	5	16	8	0	178	127	0	268,323	75	6
Italy	0	0	0	0	6	8	0	50	11	0
Luxembourg	0	0	0	0	0	3	0	3	0	0
Netherlands	0	3	1	0	0	0	0	112	0	0
Portugal	0	0	0	0	4	0	0	8	0	0
Spain	0	6	0	0	0	0	0	52	0	0
Sweden	0	0	0	0	0	0	0	4	0	0
United Kingdom	0	0	0	0	15	5	13	4,942	3	0
Other Countries	0	0	0	0	0	0	0	14	0	0
Total	5	34	9	0	242	179	13	273,769	107	6

Table 19 Weight of goods carried classified by Country of origin and Country of destination, 2004
-continued

Country of Origin	Country of Destination						Total
	Netherlands	Portugal	Spain	Sweden	United Kingdom	Other Countries	
Tonnes carried (thousand)							
Austria	0	0	0	0	0	0	0
Belgium	1	0	0	0	4	0	49
Denmark	0	0	0	0	7	0	12
Finland	0	0	0	0	0	0	0
France	0	3	1	0	55	3	229
Germany	0	0	5	0	34	2	190
Greece	0	0	0	0	3	0	3
Ireland	109	17	74	17	3,913	31	272,899
Italy	0	0	0	0	7	0	82
Luxembourg	0	0	0	0	3	0	9
Netherlands	15	0	7	0	27	6	171
Portugal	0	0	3	0	0	0	15
Spain	0	0	13	0	11	0	81
Sweden	0	0	0	0	0	0	4
United Kingdom	0	0	0	0	4,583	0	9,561
Other Countries	0	0	0	0	14	0	28
Total	126	20	103	17	8,661	42	283,334

Table 20 Vehicle Kilometres travelled classified by Country of origin and Country of destination, 2004

Country of Origin	Country of Destination									
	Austria	Belgium	Denmark	Finland	France	Germany	Greece	Ireland	Italy	Luxembourg
	Vehicle kilometres (million)									
Austria	0	0	0	0	0	0	0	0	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	2	1	0	6	0	0
Germany	0	0	0	0	1	2	0	10	1	0
Greece	0	0	0	0	0	0	0	0	0	0
Ireland	1	2	2	0	12	13	0	2,000	8	0
Italy	0	0	0	0	1	1	0	6	1	0
Luxembourg	0	0	0	0	0	0	0	0	0	0
Netherlands	0	0	0	0	0	0	0	7	0	0
Portugal	0	0	0	0	0	0	0	1	0	0
Spain	0	1	0	0	0	0	0	6	1	0
Sweden	0	0	0	0	0	0	0	0	0	0
United Kingdom	0	0	0	0	2	1	2	72	1	0
Other Countries	0	0	0	0	0	1	0	3	0	0
Total	1	3	2	0	19	19	2	2,115	12	0

Table 20 Vehicle Kilometres travelled classified by Country of origin and Country of destination, 2004
-continued

Country of Origin	Country of Destination						Total
	Netherlands	Portugal	Spain	Sweden	United Kingdom	Other Countries	
Vehicle kilometres (million)							
Austria	0	0	0	0	0	0	0
Belgium	0	0	0	0	0	0	3
Denmark	0	0	0	0	1	0	2
Finland	0	0	0	0	0	0	0
France	0	1	0	0	4	0	15
Germany	0	0	1	0	3	1	19
Greece	0	0	0	0	0	0	0
Ireland	7	3	10	2	74	4	2,140
Italy	0	0	0	0	1	0	10
Luxembourg	0	0	0	0	0	0	1
Netherlands	0	0	1	0	1	1	10
Portugal	0	0	1	0	0	0	3
Spain	0	0	2	0	1	0	12
Sweden	0	0	0	0	0	0	1
United Kingdom	0	0	0	0	45	0	122
Other Countries	0	0	0	0	2	0	5
Total	9	4	15	2	132	6	2,342

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 2004 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 28,136 vehicles surveyed, a satisfactory return was received in respect of 11,110 vehicles and represented an overall response rate of 39%. 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
Before 1996	2,410	37	3,150	33	3,325	28
1996-2000	2,946	44	2,291	41	5,593	39
After 2000	3,216	47	1,155	43	4,050	45

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 806 returns in addition to the 11,110 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	459	5	10,410	7	449	4
5-7.5	1,165	6	13,800	7	259	5
7.5-10	2,717	5	40,863	6	424	3
10-12.5	7,297	4	121,389	2	700	3
Over 12.5	5,650	5	96,871	2	510	4
Total	17,288	1	283,334	2	2,342	1

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 ¹	Year of First Registration	Grossing Up	Sample Selection
Before 1996	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
“		Hire or Reward	“	5	
1996 to 2000	2-5 tonnes	Immaterial	“	6	4
“	5-10 tonnes	Own Account	“	7	5
“		Hire or Reward	“	8	
“	10 tonnes or over	Own Account	“	9	6
“		Hire or Reward	“	10	
2001 or later	2-5 tonnes	Immaterial	Before 2003	11	7
“	“	“	2003 or later	12	
“	5-10 tonnes	Own Account	Before 2003	13	8
“		“	2003 or later	14	
“	“	Hire or Reward	Before 2003	15	
“	“	“	2003 or later	16	
“	10 tonnes or over	Own Account	Before 2003	17	9
“		“	2003 or later	18	
“	“	Hire or Reward	Before 2003	19	
“	“	“	2003 or later	20	

¹ 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 3¹ 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.

¹ 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)

CHAPTER TITLE

Contents

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

CONFIDENTIAL



Appendix D

Enquiries to:
 Transport Section
 Central Statistics Office
 Skehard Road
 Cork

Phone **021-453 5000**
 or **01-498 4000**
 LoCall 1890 313 414
 Fax 021-453 5299
 Website www.cso.ie

Official use only	
Coded	
Checked	

Amend if incorrect in any respect

CENTRAL STATISTICS OFFICE

NATIONAL SURVEY OF TRANSPORT OF GOODS BY ROAD

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**. **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? | <input type="checkbox"/> | <input type="checkbox"/> | |
| Carriage of other persons/companies goods? | <input type="checkbox"/> | <input type="checkbox"/> | PLEASE ✓
APPROPRIATE
BOX |
| Hire to others? | <input type="checkbox"/> | <input type="checkbox"/> | |

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		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
	(Please give nearest town and district)	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)
				KGS	MILES	MILES	NO.	KGS	NO.	KGS	NO.
MONDAY											
TUESDAY											

WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY











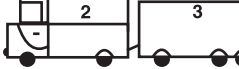






PLEASE SEE OVER

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

<p>4. CARRYING CAPACITY (i.e. heaviest load possible) OF VEHICLE Kgs</p> <p>5. If the vehicle is used to draw a trailer then give the UNLADEN WEIGHT of the trailer Kgs</p> <p>CARRYING CAPACITY of trailer Kgs</p> <p>6. TYPE OF BODY (please ✓ appropriate box)</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>7. TYPE OF WORK NORMALLY CARRIED OUT BY VEHICLE (please ✓ appropriate box)</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>
---	---

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:

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

