

Item No 6

Report to the Chairperson and Members of the
Transport and Traffic Strategic Policy Committee

**Report on Dublin City Council's Canal Cordon Traffic Counts
2011**

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2011 Cordon Counts

Since 1980, Dublin City Council has been conducting traffic counts at 33 locations around the cordon formed by the Royal and Grand Canals. The counts are conducted during the month of November each year. Counts are conducted at each location for each vehicle category as indicated in Table 1. Since 1997 the counts have been conducted over the period 07.00 to 10.00hrs.

The main results of the cordon counts for November 2011 together with the data for each year since 1997 are set out in Table 1.

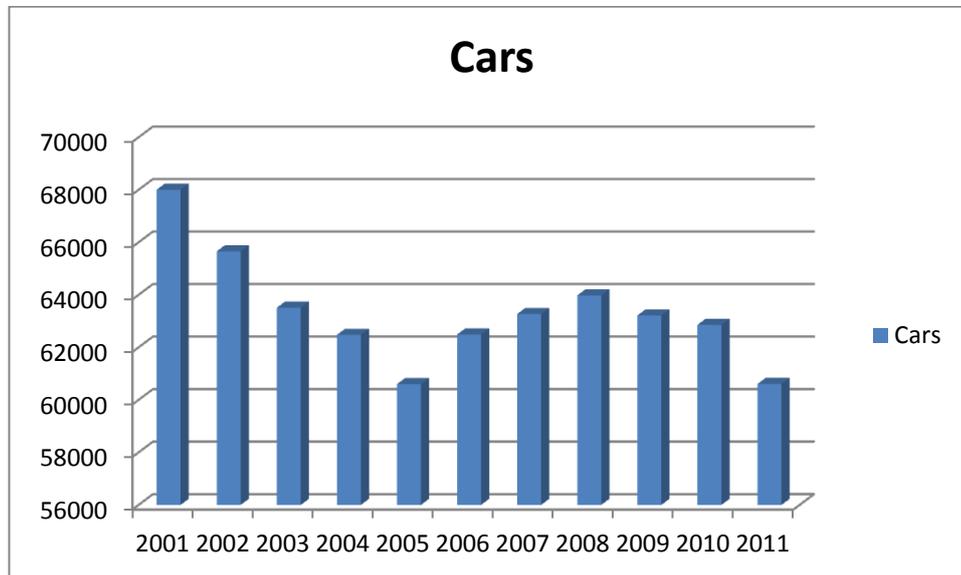
Table 1 Summary Results Canal Cordon Counts 1997 to 2011
Inbound 07.00 to 10.00hrs

Year	Cars*	Goods	Buses	P.Cycles	M.Cycles	Peds.
(Nov)	No.	No.	No.	No.	No.	No
1997	73,561	3,283	1,459	5,628	1,816	16,679
1998	71,536	3,090	1,350	4,579	1,845	15,565
1999	73,147	3,112	1,454	5,384	2,267	18,157
2000	67,935	3,000	1,521	4,464	2,558	15,808
2001	68,003	3,004	1,522	5,085	2,845	18,558
2002	65,657	2,828	1,576	4,714	2,920	16,609
2003	63,509	2,651	1,563	4,711	2,656	17,305
2004	62,475	3,057	1,537	3,941	2,249	15,241
2005	60,600	2,711	1,601	4,404	2,187	16,332
2006	62,489	2,291	1,680	4,839	2,395	17,114
2007	63,269	1,445	1,740	5,676	2,429	18,594
2008	63,976	1,223	1,814	6,143	2,375	18,360
2009	63,212	1,087	1,704	6,326	2,060	14,618
2010	62,856	993	1,688	5,952	1,656	15,092
2011	60,607	1,176	1,539	6,870	1,485	14,551

* includes taxis

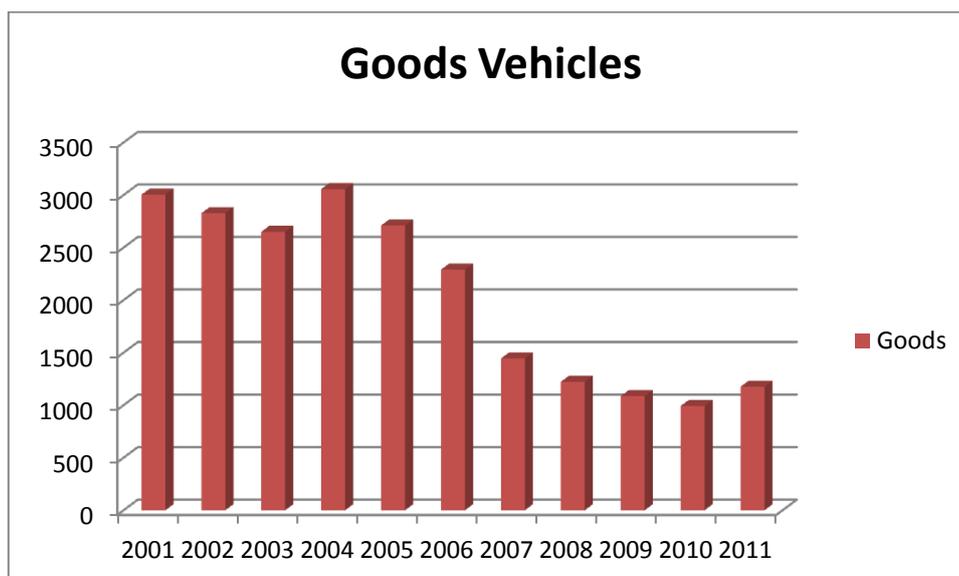
Cars

Over the 10 year period 2001 to 2011 the volume of cars and taxis crossing the canal cordon inbound during the morning peak period decreased by 10.9%. The volume decreased by 3.0% in the period 2006 to 2011 with a 3.6% decrease in the period 2010 to 2011



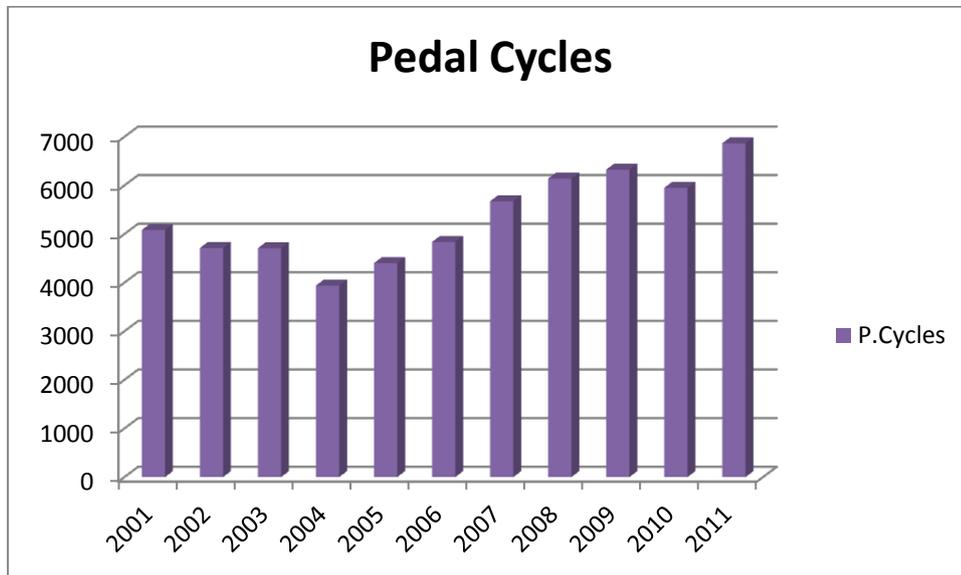
Goods Vehicles

The volume of goods vehicles crossing the canal cordon has decreased significantly over the 10-year period 2001 to 2011 with a recorded decrease of 60.9%. Over the 5-year period 2006 to 2011 there was a decrease of 48.7% with an increase of 18.4% between 2010 and 2011.



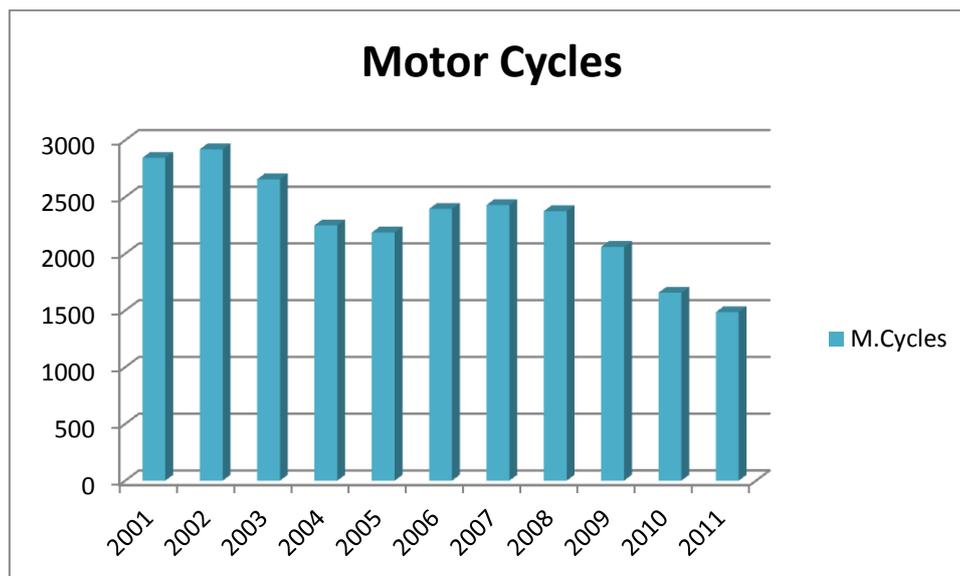
Cyclists

Over the 10 year period 2001 to 2011 the volume of pedal cyclists crossing the canal cordon during the morning peak period increased by 35.1%. There was a 41.9% increase in the period 2006 to 2011 and a 15.4% increase in the period 2010 to 2011.



Motor Cyclists

Over the 10 year period 2001 to 2011 the volume of motor cyclists crossing the canal cordon during the morning peak period decreased by 47.8%. There was a 38.0% decrease in the period 2006 to 2011 and a 10.3% decrease in the period 2010 to 2011.



Pedestrians

Over the 10 year period 2001 to 2011 the volume of pedestrians crossing the cordon during the morning peak period decreased by 21.6%. There was a decrease of 15.0% in the period 2006 to 2011 and a 3.6% decrease in the period 2010 to 2011.

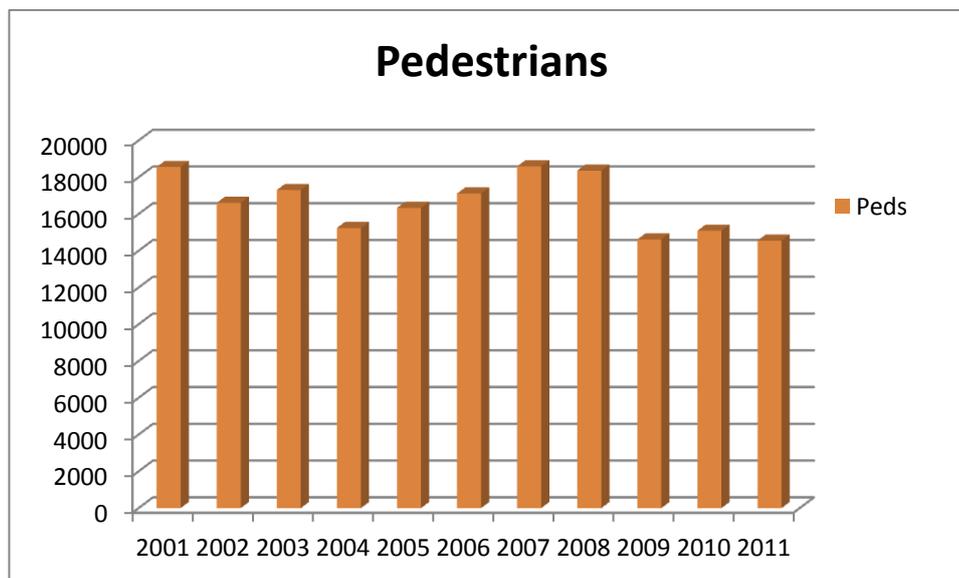


Table 2 summarises the changes in inbound traffic volumes of vehicles and pedestrians over 10 years, 5 years and one year as measured at the 33 locations on the canal cordon between 7am and 10am

Table 2 Change in traffic volumes over 10 years, 5 years & 1 year

		2001 to 2011	2006 to 2011	2010 to 2011
Cars	No.	-7396	-1882	-2259
	%	-10.9%	-3.0%	-3.6%
Goods	No.	-1828	-1115	+183
	%	-60.9%	-48.7%	+18.4%
Buses	No.	+17	-141	-149
	%	+1.1%	-8.4%	-8.8%
PCycles	No.	+1785	+2031	+918
	%	+35.1%	+41.9%	+15.4%
MCycles	No.	-1360	-910	-171
	%	-47.8%	-38.0%	-10.3%
All Vehs	No.	-8782	-2017	-1468
	%	-8.0%	+2.3%	-1.7%
Peds	No	-4007	-2563	-541
	%	-21.6%	-15.0%	-3.6%

Table 3 shows information that was collected for the first time in 2002 on the number of taxis and on the breakdown between Bus Atha Cliath (BAC) and other buses.

Table 3 Canal Cordon Counts 2002-2011 (Inbound 07.00 to 10.00hrs)						
Data on Cars, Taxis & Buses Crossing the Cordon						
	Cars	Taxis	Total	BAC	Other	Total
2002						
No	63,097	2,560	65,657	1,262	314	1,576
%	96.1%	3.9%	100%	80.1%	19.9%	100%
2003						
No	60,644	2,865	63,509	1,262	301	1,563
%	95.5%	4.5%	100%	80.7%	19.3%	100%
2004						
No	59,966	2,509	62,475	1,278	259	1,466
%	96.0%	4.0%	100%	83.1%	16.9%	100%
2005						
No	57,537	3,063	60,600	1,337	264	1,601
%	94.9%	5.1%	100%	83.5%	16.5%	100%
2006						
No	58,664	3,825	62,489	1,338	342	1,680
%	93.9%	6.1%	100%	79.6%	20.4%	100%
2007						
No	58,686	4,583	63,269	1,330	410	1,740
%	92.8%	7.2%	100%	76.4%	23.6%	100%
2008						
No	58,897	5,079	63,976	1,474	340	1,814
%	92.1%	7.9%	100%	81.3%	18.7%	100%
2009						
No	58,232	4,980	63,212	1,366	338	1,704
%	92.1%	7.9%	100%	80.2%	19.8%	100%
2010						
No	58,047	4,809	62,856	1329	359	1688
%	92.3%	7.7%	100%	78.7%	21.3%	100%
2011						
No	55,745	4,862	60,607	1179	360	1539
%	92.0%	8.0%	100%	76.6%	23.4%	100%

Taxis

Taxis made up 6.1% of all cars crossing the canal cordon in 2006 increasing to 8.0% in 2011. From 2006 to 2011 the total number of taxis increased by 27.1%. There was an increase of 0.9% from 2010 to 2011.

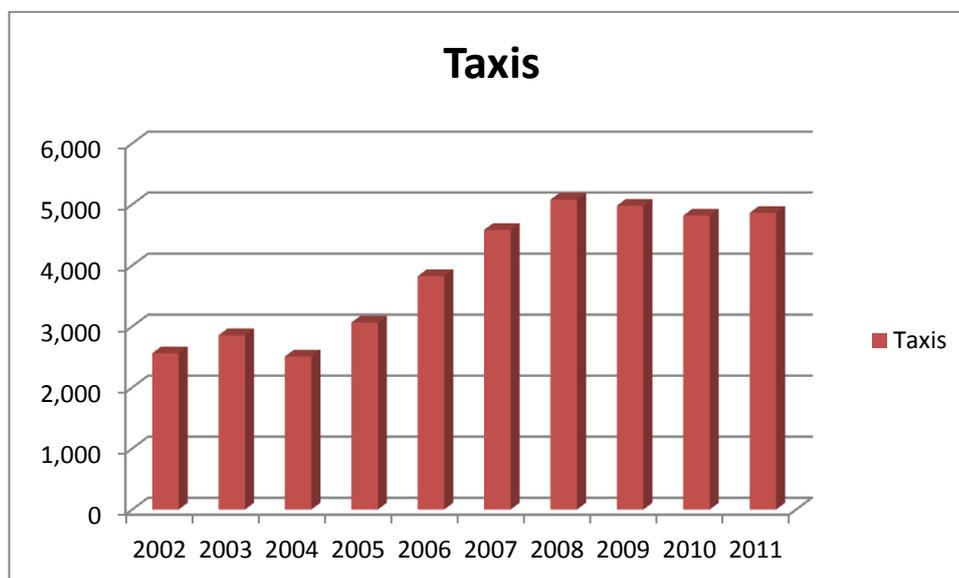
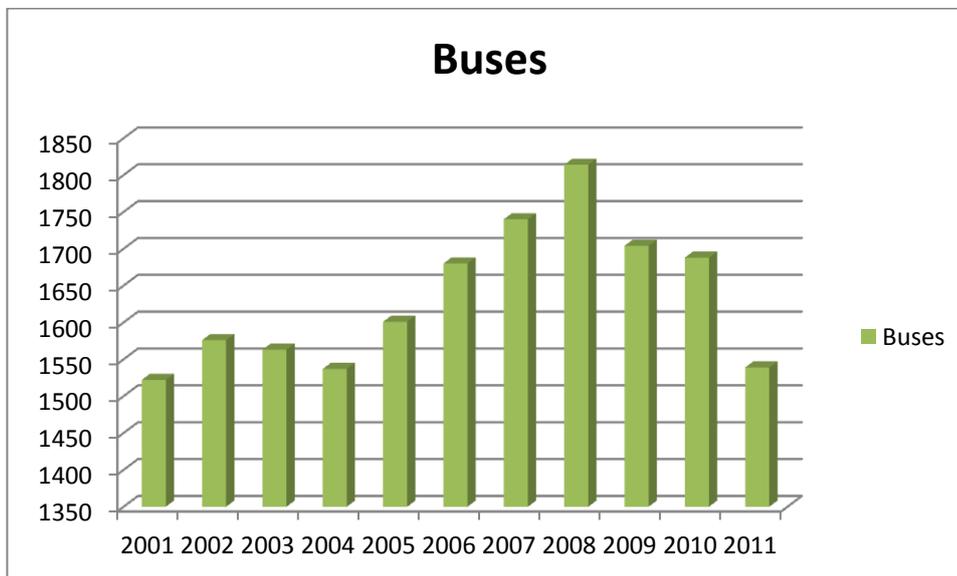


Table 4 outlines the changes in traffic volumes of private cars, taxis and buses for vehicles crossing the canal cordon between 7am and 10am for the years from 2006 to 2011 and from 2010 to 2011.

Table 4 Canal Cordon Counts (Inbound 07.00 to 10.00hrs)		
Change in traffic volumes over 5 years & 1 year		
	2006 to 2011	2010 to 2011
Cars*		
No.	-2929	-2301
%	-5.0%	-4.0%
Taxis		
No.	+1037	+44
%	+27.1%	+0.9%
BAC		
No.	-153	-149
%	-11.5%	-11.2%
Other Bus		
No.	+12	+1
%	+3.4%	+0.3%
<i>*Private cars only</i>		

Buses

In the period 2006 to 2011 the number of Bus Atha Cliath buses crossing the cordon has decreased by 11.5% with most of this decrease in the period 2010 to 2011. The number of private buses in the period 2006 to 2011 has increased by 3.4%. The total number of all buses has decreased by 8.4% during the same period.



Bus Atha Cliath (BAC) - Other Bus

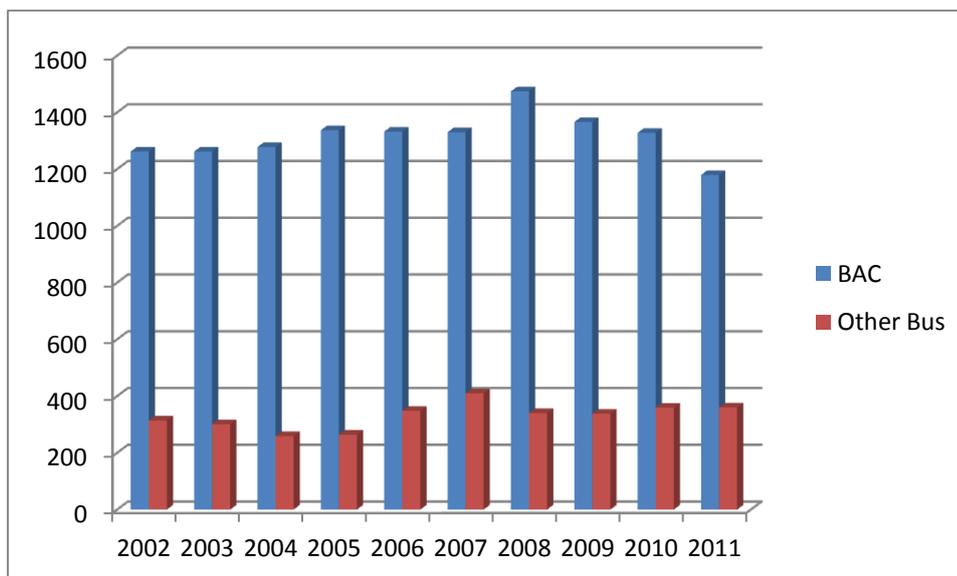


Table 5 shows detailed count results from 2006 and 2011 for cars and taxis and all buses at each of the 33 count locations.

On main bus routes from 2006 to 2011 there was an increase of 1.5% in the number of cars and taxis crossing the canal cordon between 7am and 10am. The number of buses decreased by 21%.

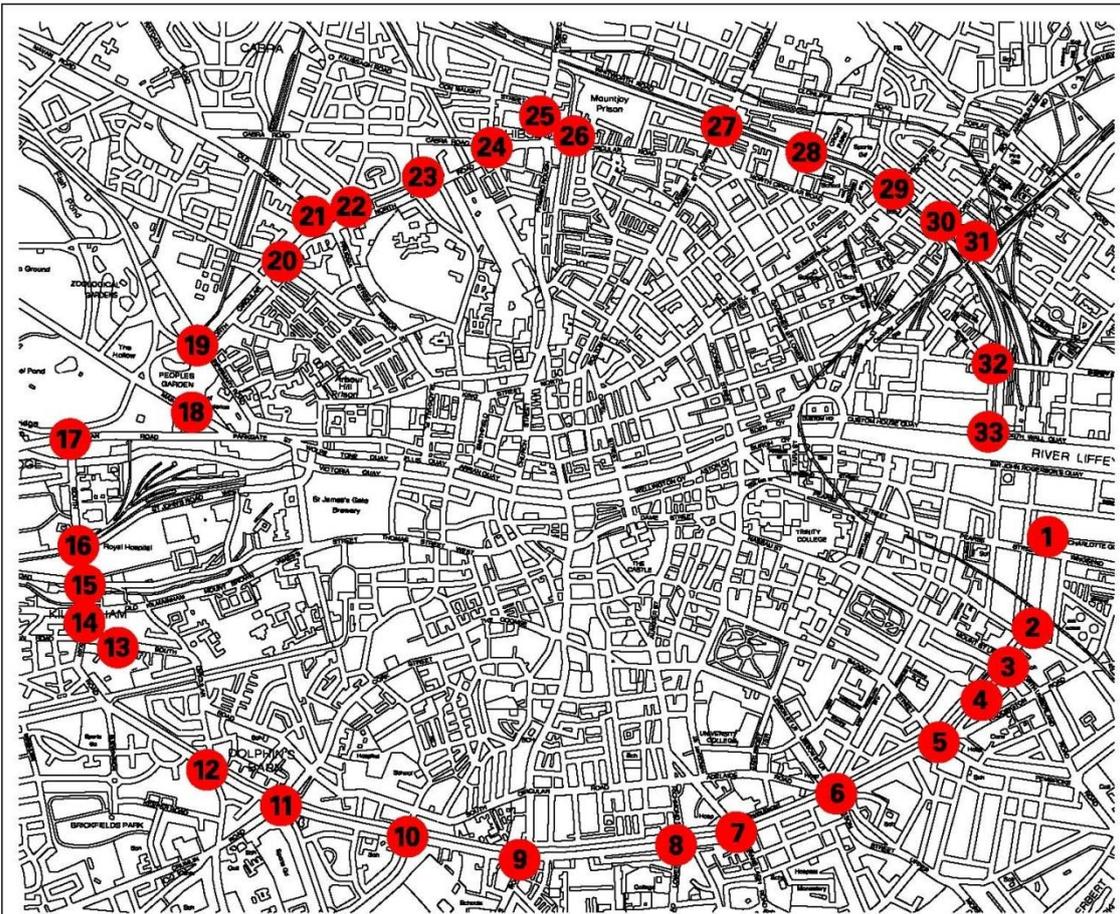
On non bus routes between 2006 and 2011 the number of cars and taxis crossing the cordon decreased by 24%.

Table 5 Canal Cordon Counts 2011 (Inbound 07.00 to 10.00hrs) – 33 locations							
		Cars and Taxis			All Buses		
	Main Bus Routes	2006	2011	06-11	2006	2011	06 - 11
1	Ringsend Rd (McMahon Bridge)	1738	2135	+23%	65	53	-18%
3	Mount Street Bridge	1601	2014	+26%	80	52	-35%
5	Baggot Street Bridge	2161	1889	-13%	35	59	-69%
6	Leeson Street Bridge	3942	3883	+1%	234	169	-28%
7	Charlemont Street Bridge	1511	1321	-13%	15	8	-46%
8	Rathmines Road (Portobello Br.)	2076	1840	-11%	82	105	+28%
9	Harold's Cross Bridge	2972	2725	-8%	53	56	+6%
10	Sally's Bridge	2150	1694	-21%	12	20	+67%
11	Dolphins Barn Bridge	2572	2847	+11%	88	58	-34%
13	SCR at St Patrick's Home	1491	1829	+23%	36	26	-28%
14	Old Kilmmainham	1845	2253	+22%	52	34	-35%
16	St. John's Road West	2876	2728	-5%	127	158	+24%
17	Conyngham Road	2206	2768	+25%	67	41	-39%
20	Blackhorse Avenue	2376	2104	-11%	22	17	-23%
21	Old Cabra Road	1410	1664	+18%	62	52	-16%
24	New Cabra Road	1369	1593	+16%	113	71	-37%
25	Phibsborough Road	2774	2947	+6%	75	67	-11%
27	Drumcondra Road (Binn's Br.)	5079	4970	-2%	239	185	-26%
29	Clarke's Bridge	3958	3656	-8%	27	23	-15%
30	Newcomen Bridge	3014	3421	+14%	178	158	-11%
2	Grand Canal Street Bridge	1615	1625	+1%	2	1	-50%
32	Sheriff Street Bridge	1406	991	-30%	0	33	
	Total	52142	52897	+1.5%	1664	1315	-21%
	Non Bus Routes						
4	Huband Bridge	459	366	-41%	0	0	
12	Herberton Bridge	2122	2023	+5%	3	21	
15	Kilmmainham Lane	432	867	+101%	0	0	
18	Phoenix Park (Main Road)	1317	513	-61%	0	0	
19	Phoenix Park (Back Road)	1442	743	-48%	0	4	
22	Annamoe Road	711	516	-27%	0	4	
23	Charleville Road	699	632	-10%	0	0	
26	Royal Canal Bank	263	19	-93%	0	0	
28	Russell Street Bridge	1313	1071	-18%	2	3	
31	Ossary Road	405	243	-40%	1	0	
33	North Wall Quay	1202	879	-27%	10	68	
	Total	10365	7872	-24%	3	100	

Table 6 outlines the changes in the number of persons travelling by car, taxi and on foot from 2006 to 2011 and the changes in occupancy rates for the different modes.

Between 2006 and 2011 the number of persons coming into the city during the morning peak by car has decreased by 9.3%. Over the same 5-year period the number of persons coming into the city during morning peak by taxi has increased by 42.8% while the number of pedestrians crossing the cordon has decreased by 15.0% .

		2006	2007	2008	2009	2010	2011	% 06-11
Number	Cars	58,664	58,686	58,897	58,232	58,047	55,745	-5.0%
	Taxis	3,825	4,583	5,079	4,980	4,809	4,862	+27.1%
	Pedestrians	17,114	18,594	18,360	14,618	15,092	14,551	-15.0%
Occupancy	Cars	1.31	1.22	1.15	1.22	1.24	1.25	-4.6%
	Taxis	1.38	1.47	1.38	1.55	1.47	1.55	+12.3%
Persons	Cars	76,850	71,597	67,732	71,043	71,978	69,681	-9.3%
	Taxis	5,278	6,737	7,009	7,719	7,069	7,536	+42.8%
	Pedestrians	17,114	18,594	18,360	14,618	15,092	14,551	-15.0%
	Total	99,242	96,928	93,101	93,380	94,139	91,768	-7.5%



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Canal Cordon Count Locations

- | | |
|-----------------------------------|---------------------------------|
| 1 Ringsend Rd (McMahon Bridge) | 17 Conyngham Road |
| 2 Grand Canal Street Bridge | 18 Phoenix Park (Main Road) |
| 3 Mount Street Bridge | 19 Phoenix Park (Back Road) |
| 4 Huband Bridge | 20 Blackhorse Avenue |
| 5 Baggot Street Bridge | 21 Old Cabra Road |
| 6 Lesson Street Bridge | 22 Annamoe Road |
| 7 Charlemont Street Bridge | 23 Charleville Road |
| 8 Rathmlins Road (Portobello Br.) | 24 New Cabra Road |
| 9 Harold's Cross Bridge | 25 Phibsborough Road |
| 10 Sally's Bridge | 26 Royal Canal Bank |
| 11 Dolphins Barn Bridge | 27 Drumcondra Road (Binn's Br.) |
| 12 Herberton Bridge | 28 Russell Street Bridge |
| 13 SCR at St Patrick's Home | 29 Clarke's Bridge |
| 14 Old Kilmainham | 30 Newcomen Bridge |
| 15 Kilmainham Lane | 31 Ossory Road |
| 16 St. John's Road West | 32 Sheriff Street Lower |
| 33 North Wall Quay | |