Road Safety Authority

Seatbelt Observation Surveys

Winter 2021

PREPARED FOR THE ROAD SAFETY AUTHORITY (RSA) BY NATIONWIDE DATA COLLECTION (NDC)

Údarás Um Shábháilteacht Ar Bhóithre
Road Safety Authority

Contents

Introduction

The annual Seatbelt Observation surveys were commissioned by the Road Safety Authority (RSA) with surveys carried out by Nationwide Data Collection (NDC) during November and December 2021. The aim of this project was to gather observational data of seatbelt compliance of drivers and passengers.

Surveys were undertaken at 152 sites across Ireland on weekdays between 08:30 – 18:30. These sites comprised four different survey types:

Survey Type	No. Sites
Front and Rear Adult Occupants	111
Rear Adult Occupants	13
Primary School Children	13
Secondary School Children	15

Table 1 - Number of sites surveyed by type

Observations at schools were conducted during school opening or closing times and these times were checked on school websites to ensure that surveyors were in place at the correct times to observe maximum traffic flow. Schools were not notified regarding the survey.

Methodology

A briefing session was held for all staff to explain the objectives of the surveys and their individual tasks. Clear written instructions were provided to all operatives to use as an onsite reference along with contact details for the Project Manager. The instructions included a detailed method statement and risk assessment along with maps, GPS coordinates and site survey sheets. Test observation sessions for our fieldwork team were conducted during the briefing session to ensure a full understanding of the requirements of the project.

Fieldworkers maintained daily contact with the Project Manager; any site issues were communicated and the RSA informed of any required alteration to the schedule or site locations.

Following site completion all data was returned to the Dublin office for checking and subsequent processing. As part of this process any data issues were identified immediately and corrective action taken.

Adult Seatbelt Wearing Survey

Data was collected from direct observations of seatbelt wearing at 124 pre-determined sites including 13 sites capturing adult seatbelt wearing among adult rear passengers only.

Observations (including front and rear adult passengers) were recorded on RSA approved data sheets, similar to previous surveys to maintain consistency.

Members of An Garda Síochána, driving instructors, taxi drivers and children were excluded from the front and rear adult seatbelt surveys. Data was collected at each site until the target sample of 140 observations was exceeded or a maximum time period of 3 hours was reached.

Seatbelt Wearing Rates among Students

In addition to the front and rear adult seatbelt surveys, the 2021 study included an assessment of seatbelt wearing rates of students attending primary and secondary schools. A total of 28 schools, including 15 secondary schools and 13 primary schools, were surveyed at opening or closing times. Seatbelt wearing was recorded for the student(s) in the car only.

The observation procedure was similar to that of the adult seatbelt survey and to be consistent with previous surveys, surveyors selected a site approximately 100 metres away from school entrance.

Survey Sample Sizes

Age Range

The table shown below indicates the sample size achieved across all sites within the survey for seatbelt observations, broken down by the age range of the occupant.

Occupant Type	Age Range		Total Sample Size (No. Occupants)
	Adult	Child	
Driver	13,741	-	13,741
Front Passenger	2,597	1,843	4,440
Rear Passenger	1,592	1,104	2,696
Total	17,930	2,947	20,877

Table 2 - Survey sample size by occupant age range

Gender

The table shown below indicates the sample size achieved across all sites within the survey for seatbelt observations, broken down by the gender of the occupant.

Occupant Type	Gender		Total Sample Size (No. Occupants)
	Male	Female	
Driver	8,500	5,241	13,741
Front Passenger	1,985	2,455	4,440
Rear Passenger	1,121	1,575	2,696
Total	11,606	9,271	20,877

Table 3 - Survey sample size by occupant gender

Road Class

The table shown below indicates the sample size achieved across all sites within the survey seatbelt observations, broken down by the road class.

Road Class	Number of Sites Surveyed	Total Sample Size (No. Occupants)
County Road	30	3,367
Regional Road	19	3,015
Rural National Primary Route	13	2,182
Rural National Secondary Route	8	1,371
Urban National Primary Route	7	1,264
Urban National Secondary Route	2	331
Urban Road	45	6,400
Uncategorised (Primary/Secondary School Sites)	28	2,947
Total	152	20,877

Table 4 - Survey sample size by road class of site

County

The table shown below indicates the sample size achieved across all sites within the survey for seatbelt observations, broken down by county.

County	Number of Sites Surveyed	Total Sample Size (No. Occupants)
Carlow	2	107
Cavan	1	239
Clare	4	496
Cork	19	2,510
Donegal	10	1,352
Dublin	25	3,980
Galway	12	1,681
Kerry	6	514
Kildare	2	267
Kilkenny	5	782
Laois	4	383
Leitrim	1	73
Limerick	7	982
Longford	5	615
Louth	4	542
Mayo	3	504
Meath	3	495
Monaghan	3	500
Offaly	3	464
Roscommon	3	469
Sligo	2	204
Tipperary	8	1208
Waterford	5	813
Westmeath	9	1000
Wexford	4	467
Wicklow	2	230
Total	**152**	**20,877**

Table 5 - Survey sample size by county

Seatbelt Compliance

2021 Results and Analysis – Adults

The following statistics were generated using data from the "Front and Rear Adult Occupants" and "Rear Adult Occupants" surveys for seatbelt compliance. As such these samples contain only data relating to adults.

At a glance…

98% (94% in 2018) of all adults were wearing a seatbelt however this compliance rate varies by occupant type, with rear occupants showing the lowest compliance at 93% (89% in 2018).

Seatbelt Compliance	Occupant Type			
	Driver	Front Passenger	Rear Passenger	Overall
Yes	99%	98%	93%	**98%**
No	1%	2%	7%	**2%**

Table 6- Seatbelt compliance by occupant type. Sample sizes can be found in Table 2.

How does gender seatbelt compliance rates vary by gender?

Compliance rates were quite similar between male and female.

Seatbelt Compliance	Occupant Type							
	Driver		Front		Rear		Overall	
	Male	Female	Male	Female	Male	Female	Male	Female
Yes (%)	98%	99%	98%	99%	90%	95%	**97%**	**98%**
No (%)	2%	1%	2%	1%	10%	5%	**3%**	**2%**
Yes – Sample size	8,332	5,206	1,937	2,432	1,007	1,493	**11,276**	**9,131**
No – Sample Size	168	35	48	23	114	82	**330**	**140**

Table 7 - Seatbelt compliance by occupant type and gender

Were drivers more compliant in the presence of passengers?

Drivers who are in their car alone, with no passengers, were observed as less compliant with wearing a seatbelt at 98%. Drivers with passengers showed almost full compliance.

Driver Seatbelt Compliance	Driver without passengers	Driver with passengers
Yes (%)	98%	100%
No (%)	2%	0%
Yes – sample size	10,685	2,853
No – sample size	189	14

Table 8 - Seatbelt compliance for drivers by presence of (adult) passengers

Does seatbelt compliance vary by road type?

Overall the National Secondary Routes (both Urban and Rural) were observed with the highest compliance rate at 100%. Occupants on Urban Roads were observed as the least compliant, with an overall compliance rate of 96%. Rear occupants showed the lowest compliance rates.

Seatbelt Compliance/ Road Class	Occupant Type			
	Driver	Front passenger	Rear passenger	Overall
County Road	98%	98%	90%	**98%**
Regional Road	98%	97%	87%	**98%**
Rural National Primary Route	100%	99%	96%	**99%**
Rural National Secondary Route	100%	99%	100%	**100%**
Urban National Primary Route	99%	97%	98%	**98%**
Urban National Secondary Route	100%	100%	100%	**100%**
Urban Road	98%	98%	88%	**96%**

Table 9 - Seatbelt compliance by road class and occupant type. Sample sizes can be found in Table 10.

Sample Size/ Road Class	Occupant Type			
	Driver	Front passenger	Rear passenger	Overall
County Road	*2,778*	*485*	*104*	*3,367*
Regional Road	*2,505*	*405*	*105*	*3,015*
Rural National Primary Route	*1,813*	*280*	*89*	*2,182*
Rural National Secondary Route	*1,119*	*197*	*55*	*1,371*
Urban National Primary Route	*980*	*234*	*50*	*1,264*
Urban National Secondary Route	*280*	*35*	*16*	*331*
Urban Road	*4,266*	*961*	*1,173*	*6,400*

Table 10 - Sample sizes

Does seatbelt compliance vary by county?

Meath showed the lowest levels of seatbelt compliance overall (allowing for combination of driver and passengers).

Cavan, Kildare, Roscommon, Tipperary and Waterford showed the highest level of compliance.

Rear passengers showed the lowest levels of compliance, however, as shown in Table 12 Table , the sample size for rear occupants can be quite low compared to front occupants.

Seatbelt Compliance/ County	Occupant Type			
	Driver	Front passenger	Rear passenger	Overall
Carlow	-	100%	90%	**91%**
Cavan	-	100%	99%	**100%**
Clare	99%	98%	100%	**99%**
Cork	95%	96%	94%	**95%**
Donegal	99%	100%	98%	**99%**
Dublin	99%	100%	96%	**98%**
Galway	100%	99%	96%	**99%**
Kerry	98%	90%	92%	**96%**
Kildare	100%	100%	100%	**100%**
Kilkenny	100%	97%	99%	**96%**
Laois	96%	96%	94%	**99%**
Leitrim	-	100%	98%	**99%**
Limerick	100%	100%	93%	**99%**
Longford	99%	98%	86%	**97%**
Louth	100%	99%	93%	**99%**
Mayo	100%	97%	100%	**99%**
Meath	100%	100%	71%	**89%**
Monaghan	99%	97%	80%	**98%**
Offaly	97%	94%	93%	**97%**
Roscommon	100%	99%	100%	**100%**
Sligo	-	100%	82%	**93%**
Tipperary	100%	100%	97%	**100%**
Waterford	100%	100%	87%	**100%**
Westmeath	97%	94%	88%	**95%**
Wexford	98%	100%	98%	**99%**
Wicklow	98%	100%	98%	**99%**

Table 11 - Seatbelt compliance by county and occupant type. Sample sizes can be found in Table 12.

Sample Size/ County	Occupant Type			
	Driver	Front passenger	Rear passenger	Overall
Carlow	-	6	101	107
Cavan	-	140	99	239
Clare	440	51	5	496
Cork	1,672	637	201	2,510
Donegal	1,055	206	91	1,352
Dublin	2,659	843	478	3,980
Galway	1,171	296	214	1,681
Kerry	385	78	51	514
Kildare	140	93	34	267
Kilkenny	478	143	161	782
Laois	292	74	17	383
Leitrim	-	33	40	73
Limerick	560	243	179	982
Longford	449	80	86	615
Louth	280	179	83	542
Mayo	420	63	21	504
Meath	280	36	179	495
Monaghan	420	60	20	500
Offaly	383	66	15	464
Roscommon	273	128	68	469
Sligo	-	125	79	204
Tipperary	700	350	158	1,208
Waterford	700	90	23	813
Westmeath	624	187	189	1000
Wexford	234	183	50	467
Wicklow	126	50	54	230

Table 12 - Sample sizes associated with Table 11

Trend Analysis – 1991-2021

The below table shows the trend for seatbelt compliance from historical surveys, observing drivers and adult front passengers only.

Year / Occupant	1991	1999	2002	2003	2004	2006	2007	2008	2009	2011	2012	2013	2014	2015	2016	2017	2018	2021
Male	-	-	81%	81%	82%	82%	86%	87%	87%	92%	90%	81%	91%	93%	90%	95%	92%	98%
Female	-	-	65%	89%	92%	92%	93%	93%	94%	95%	94%	89%	94%	96%	95%	98%	97%	99%
Overall	**53%**	**57%**	**72%**	**84%**	**86%**	**86%**	**88%**	**90%**	**90%**	**94%**	**92%**	**84%**	**92%**	**94%**	**92%**	**96%**	**94%**	**98%**

Table 13 - Seatbelt compliance for drivers and adult front passengers, from 1991 to present day

Within the scope of these surveys overall compliance rates for the occupants in question have increased consistently from 1991-2011, and from 2011 onwards compliance rates have stabilised. A graphical representation of the above data illustrates these trends with more clarity. Data labels indicate the overall seatbelt compliance for the year.
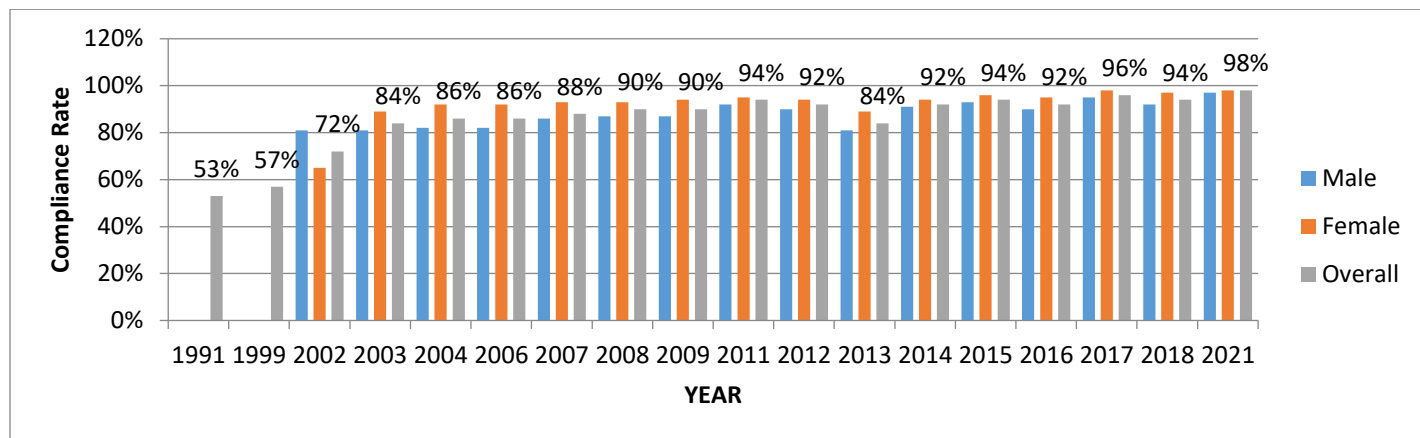

Figure 1 - Seatbelt compliance for drivers and adult front passengers, from 1991 to present day

Female occupants have been almost consistently observed as more compliant than their male counterparts.

When considering only rear occupants, it can be clearly seen that rear passengers are much less likely to be wearing a seatbelt than driver/front passengers.

Year	1991	1999	2002	2003	2004	2006	2007	2008	2009	2011	2012	2013	2014	2015	2016	2017	2018	2021
Overall Compliance – Front	53%	57%	72%	84%	86%	86%	88%	90%	90%	94%	92%	84%	92%	94%	92%	96%	94%	98%
Overall Compliance - Rear	-	-	-	46%	46%	63%	84%	78%	79%	90%	89%	89%	88%	81%	74%	83%	89%	93%

Table 14 - Seatbelt compliance for rear adult passengers only, from 1991 to present day

When observed graphically (below) this distinct difference between front and rear compliance becomes clear, and an apparent decline can be observed in rear compliance in recent years, although compliance has increased slightly this year.
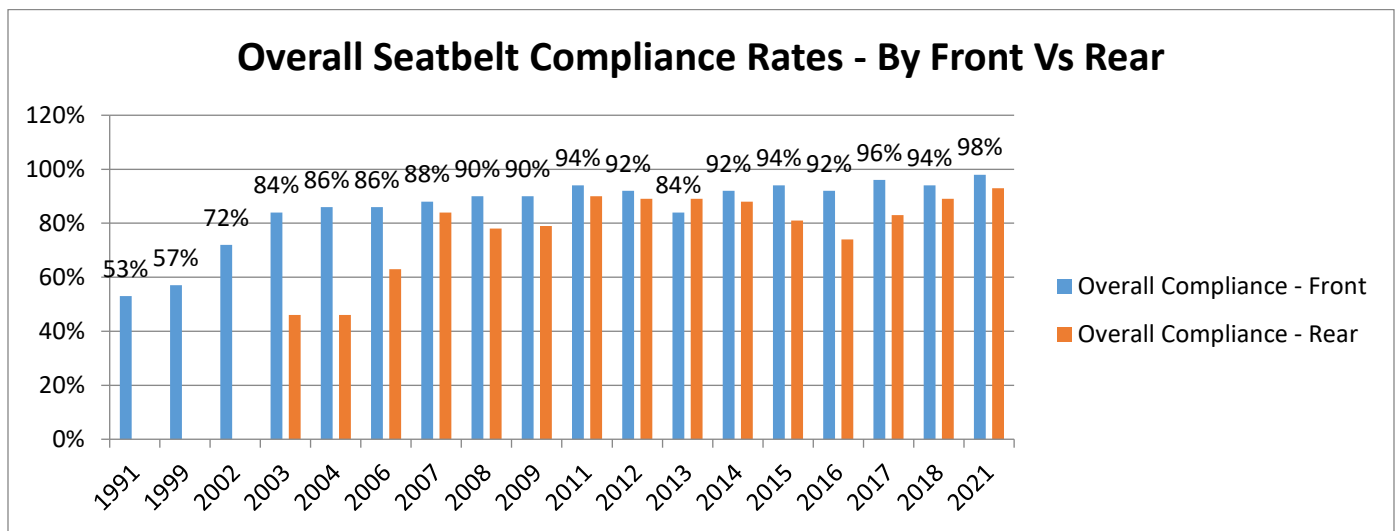

Figure 2 - Seatbelt compliance of front occupants vs rear occupants, from 1991 to present day

It should be noted that sample sizes for rear occupants are considerably lower than sample sizes for front occupants. Sample sizes for 2021 can be found in Table 3.

2021 Results and Analysis – Children

The following statistics were generated using data from the "Primary School Children" and "Secondary School Children" surveys for seatbelt compliance. As such these samples contain only data regarding children, and therefore any reference to occupants within this section relate only to them.

At a glance…

Overall 99% of children were observed wearing seatbelts, with little clear bias between gender.

Seatbelt Compliance	Occupant Gender		
	Male	Female	Overall
Yes	98%	99%	**99%**
No	2%	1%	**1%**
Yes	*1,298*	*1,609*	***2,907***
No	*27*	*13*	***40***

Table 15 - Seatbelt compliance of children by gender

Does seatbelt compliance vary by front vs rear occupancy?

Children present as a front passengers had a slightly higher level of compliance (99%) than those in the rear (98%).

Seatbelt Compliance	Occupant Type		
	Front	Rear	Overall
Yes (%)	99%	98%	**99%**
No (%)	1%	2%	**1%**
Yes – sample size	*1,828*	*1,079*	***2,907***
No – sample size	*15*	*25*	***40***

Table 16 - Seatbelt compliance of children by occupant type

Does seatbelt compliance vary according to age?

Primary school children and secondary school children were both observed as equally compliant.

Seatbelt Compliance	Age of Child		
	Primary School	Secondary School	Overall
Yes (%)	98%	99%	99%
No (%)	2%	1%	1%
Yes – sample size	*1,259*	*1,648*	***2,907***
No – sample size	*21*	*19*	***40***

Table 17 - Seatbelt compliance of children by age of child

When age is considered alongside front vs rear occupancy, compliance is quite similar.

Seatbelt Compliance	Occupant Type					
	Primary School			Secondary School		
	Front	Rear	Overall	Front	Rear	Overall
Yes (%)	99%	98%	**98%**	99%	98%	**99%**
No (%)	1%	2%	**2%**	1%	2%	**1%**
Yes – sample size	*691*	*568*	***1,259***	*1,137*	*511*	***1,648***
No – sample size	*9*	*12*	***21***	*6*	*13*	***19***

Table 18 - Seatbelt compliance of children by age of child and occupant type

Appendix A – Site List

Site No.	Survey Type	Road Class	Location	County	Latitude, Longitude	No. Vehicles Surveyed	Speed Limit (kmph)
1	Front & Rear Adult Only	Rural National Secondary Route	N67, Kilkee	Clare	52.67876, -9.64203	140	50
2	Front & Rear Adult Only	Rural National Secondary Route	N57, Foxford-Swinford	Mayo	53.98271, -9.11208	140	50
3	Front & Rear Adult Only	Rural National Secondary Route	N62, Thurles-Templemore	Tipperary	52.68635, -7.81344	140	50
4	Front & Rear Adult Only	Rural National Secondary Route	N56, Dungloe	Donegal	54.95077, -8.35391	140	50
5	Front & Rear Adult Only	Rural National Secondary Route	N65, Portumna	Galway	53.09131, -8.22286	140	50
6	Front & Rear Adult Only	Rural National Primary Route	N4, Drumsna-Dromod	Leitrim	53.86673, -7.91171	103	100
7	Front & Rear Adult Only	Rural National Secondary Route	N55, Edgeworthstown	Longford	53.69395, -7.6125	140	50
8	Front & Rear Adult Only	Rural National Secondary Route	N62, Templemore	Tipperary	52.79286, -7.84393	121	50
9	Front & Rear Adult Only	Rural National Primary Route	N24, Monard-Oola	Limerick	52.49871, -8.20593	140	50
10	Front & Rear Adult Only	Rural National Primary Route	N9, Paulstown	Kilkenny	52.68592, -7.01429	140	50
11	Front & Rear Adult Only	Rural National Primary Route	N15, Lifford	Donegal	54.83043, -7.48409	140	50
12	Front & Rear Adult Only	Rural National Primary Route	N15, Donegal Town	Donegal	54.66039, -8.08369	140	100
13	Front & Rear Adult Only	Rural National Primary Route	N17, South of Clareview	Galway	53.49287, -8.90637	140	100
14	Front & Rear Adult Only	Rural National Primary Route	N21, Castleisland-Tralee	Kerry	52.25576, -9.62975	140	60
15	Front & Rear Adult Only	Urban National Secondary Route	N60, Westport	Mayo	53.7980294, -9.5294575	140	50
16	Front & Rear Adult Only	Rural National Primary Route	N2, Carrickmacross	Monaghan	53.98541, -6.71286	140	100
17	Front & Rear Adult Only	Rural National Primary Route	N6, Moate-Horseleap	Westmeath	53.404, -7.28359	140	80
18	Front & Rear Adult Only	Rural National Secondary Route	N52, Nenagh	Tipperary	52.87055, -8.23079	140	100
19	Front & Rear Adult Only	Rural National Primary Route	N25, Near Wexford Town	Wexford	52.338148, -6.516362	140	100
20	Front & Rear Adult Only	Urban National Primary Route	N8, Fermoy	Cork	52.14195, -8.27638	140	50
21	Front & Rear Adult Only	Rural National Primary Route	N15, Ballyshannon	Donegal	54.49851, -8.18315	140	100
22	Front & Rear Adult Only	Urban National Primary Route	N22, Killarney	Kerry	52.06052, -9.48263	140	100
23	Front & Rear Adult Only	Rural National Primary Route	N9, Waterford	Kilkenny	52.26953, -7.1313	140	100
24	Front & Rear Adult Only	Urban National Primary Route	N7, Portlaoise	Laois	53.01731, -7.35263	140	80
25	Front & Rear Adult Only	Rural National Primary Route	N2/L1013	Meath	53.66313, -6.33133	140	100
26	Front & Rear Adult Only	Urban National Secondary Route	N51, Navan	Meath	53.65775, -6.67993	140	50
27	Front & Rear Adult Only	Urban National Primary Route	N4, Palmerstown Avenue junction	Dublin	53.35331, -6.37329	140	60
28	Front & Rear Adult Only	Urban National Primary Route	N7, Inchicore	Dublin	53.31885, -6.36983	140	80
29	Front & Rear Adult Only	Urban National Primary Route	N6, Galway	Galway	53.28863, -9.01253	140	50

30	Front & Rear Adult Only	Urban National Primary Route	N25, Waterford City	Kilkenny	52.25893, -7.10831	140	80
101	Front & Rear Adult Only	Urban	Monahan Road	Cork	51.8954, -8.45032	140	50
102	Front & Rear Adult Only	Urban	Mt. Pleasant Road	Cork	51.88817, -8.47276	140	50
103	Front & Rear Adult Only	Urban	Clanricard Park	Cork	51.8913489, -8.4431479	140	50
104	Front & Rear Adult Only	Urban	N Main Street	Cork	51.89944, -8.47817	140	50
105	Front & Rear Adult Only	Urban	Cathederal Road	Cork	51.90468, -8.47925	140	50
106	Front & Rear Adult Only	Urban	Walkinstown Park	Dublin	53.3196, -6.33871	103	50
107	Front & Rear Adult Only	Urban	St Finbarrs Rd	Dublin	53.36795, -6.29577	140	50
108	Front & Rear Adult Only	Urban	Old County Road	Dublin	53.32724, -6.30408	140	50
109	Front & Rear Adult Only	Urban	Kinvara Avenue	Dublin	53.36896, -6.31746	140	50
111	Front & Rear Adult Only	Urban	Tonlegee road	Dublin	53.39082, -6.18337	140	50
112	Front & Rear Adult Only	Urban	Richmond Road	Dublin	53.366005, -6.248474	140	50
113	Front & Rear Adult Only	Urban	Dolphin Road	Dublin	53.33481, -6.30155	140	50
114	Front & Rear Adult Only	Urban	Pearse Street	Dublin	53.3438, -6.24758	140	50
115	Front & Rear Adult Only	Urban	Malahide Road	Dublin	53.38398, -6.20349	140	50
116	Front & Rear Adult Only	Urban	Mount Street Upper	Dublin	53.33786, -6.24649	140	30
117	Front & Rear Adult Only	Urban	Fairview	Dublin	53.36619, -6.23988	140	50
118	Front & Rear Adult Only	Urban	Ardmore Park	Dublin	53.2816654, -6.1488681	102	50
119	Front & Rear Adult Only	Urban	Sallynoggin Road	Dublin	53.27998, -6.13583	140	50
120	Front & Rear Adult Only	Urban	Sandycove Road	Dublin	53.28605, -6.11688	140	50
121	Front & Rear Adult Only	Urban	Claughan Fort	Limerick	52.66159, -8.60422	140	50
122	Front & Rear Adult Only	Urban	Brookville Avenue	Limerick	52.67336, -8.6479	140	50
123	Front & Rear Adult Only	Urban	Shellbourne Road	Limerick	52.67266, -8.64038	140	50
201	Front & Rear Adult Only	Urban	Seapoint Prom.	Galway	53.26092, -9.07217	140	50
202	Front & Rear Adult Only	Urban	Fr. Bourke Road	Galway	53.26667, -9.05911	76	50
203	Front & Rear Adult Only	Urban	Dominick Street	Galway	53.27085, -9.05894	140	50
204	Front & Rear Adult Only	Urban	Platin Road	Louth	53.70692, -6.35347	140	30
205	Front & Rear Adult Only	Urban	Strand Street	Westmeath	53.42282, -7.93921	83	50
206	Front & Rear Adult Only	Urban	Michael Street	Kilkenny	52.65494, -7.25063	90	50
207	Front & Rear Adult Only	Urban	Main Street, Carrick-on-Suir	Tipperary	52.34532, -7.41116	140	50
208	Front & Rear Adult Only	Urban	St. Josephs Road	Longford	53.72512, -7.79613	78	50
209	Front & Rear Adult Only	Urban	Great Water Street	Longford	53.73019, -7.79928	140	50
210	Front & Rear Adult Only	Urban	High Street, Skibbereen	Cork	51.54904, -9.26559	140	50
301	Front & Rear Adult Only	County Road	Bartlemy	Cork	52.04883, -8.26514	54	50
302	Front & Rear Adult Only	County Road	Dirk-Long Strand	Cork	51.56747, -9.00247	140	50

303	Front & Rear Adult Only	County Road	Castletown	Laois	52.97727, -7.49635	65	50
304	Front & Rear Adult Only	County Road	Convert Road/Rush Main Street	Dublin	53.51937, -6.09204	84	50
305	Front & Rear Adult Only	County Road	Rathgormack	Waterford	52.31844, -7.55174	107	80
306	Front & Rear Adult Only	County Road	Ballyhooly	Cork	52.14595, -8.39806	140	50
307	Front & Rear Adult Only	County Road	Quigleys Point	Donegal	55.11717, -7.20588	140	100
308	Front & Rear Adult Only	County Road	Killenboy/Carrickboy	Longford	53.6101, -7.67098	56	100
309	Front & Rear Adult Only	County Road	Caherlean	Clare	52.73036, -9.58978	23	80
310	Front & Rear Adult Only	County Road	Meelin	Cork	52.26545, -9.03326	104	50
311	Front & Rear Adult Only	County Road	Letterkenny-Trentagh	Donegal	55.00603, -7.85133	59	80
312	Front & Rear Adult Only	County Road	Castlemurray, Donegal	Donegal	54.61772, -8.37635	60	80
313	Front & Rear Adult Only	County Road	Doonwood Golflinks	Galway	53.48451, -8.48736	140	100
314	Front & Rear Adult Only	County Road	Drumclough School	Kerry	52.40622, -9.52759	140	80
315	Front & Rear Adult Only	County Road	Killenure	Laois	53.02927, -7.52658	103	80
316	Front & Rear Adult Only	County Road	Castleplunket	Roscommon	53.76465, -8.39767	66	80
317	Front & Rear Adult Only	County Road	Knockaville, Westmeoth	Westmeath	53.47985, -7.25038	47	80
318	Front & Rear Adult Only	County Road	Dunganstown	Wexford	52.34529, -6.98041	106	80
319	Front & Rear Adult Only	County Road	Ballytarina	Wexford	52.67002, -6.50037	140	80
320	Front & Rear Adult Only	Regional Road	R576, Coolagh Jnc	Cork	52.21773, -9.2036	140	80
321	Front & Rear Adult Only	Regional Road	R262, Donegal-Glenties	Donegal	54.75897, -8.30655	140	80
322	Front & Rear Adult Only	Regional Road	R671, Knockadskagh	Waterford	52.12358, -7.77429	97	80
323	Front & Rear Adult Only	County Road	R474, Caherbarnagh	Cork	52.04671, -9.20281	45	80
325	Front & Rear Adult Only	County Road	Clonmany-Lennan	Donegal	55.26235, -7.41001	140	50
326	Front & Rear Adult Only	County Road	Rahan-Ballycumber	Offaly	53.33883, -7.63058	140	80
327	Front & Rear Adult Only	Regional Road	Aug Na Glanna Bridge	Clare	52.83653,-9.00564	140	50
328	Front & Rear Adult Only	Regional Road	R339, Monivea	Galway	53.3448472, -8.7760185	140	80
329	Front & Rear Adult Only	Regional Road	R336, Irish College Spiddal	Galway	53.274, -9.04825	140	60
330	Front & Rear Adult Only	Regional Road	R414, Mountrice	Kildare	53.1643, -7.03715	140	80
331	Front & Rear Adult Only	Regional Road	R697 Bennets Bridge	Kilkenny	52.5822, -7.27132	140	60
332	Front & Rear Adult Only	Regional Road	R695, Damma	Kilkenny	52.62976, -7.34872	133	60
333	Front & Rear Adult Only	Regional Road	R513, Kilglass	Cork	52.28665, -8.28414	140	60
334	Front & Rear Adult Only	Regional Road	R319, Mulranny-Achill	Mayo	53.9073652, -9.8007356	140	80
335	Front & Rear Adult Only	Regional Road	R178, Rakeeragh	Monaghan	53.99449, -6.78047	140	100
336	Front & Rear Adult Only	Regional Road	R188, Drumbear	Monaghan	54.23343, -6.96870	140	50
337	Front & Rear Adult Only	Regional Road	R437, Broughal	Offaly	53.18767, -7.75081	63	50
338	Front & Rear Adult Only	Regional Road	R440, Cadamstown	Offaly	53.12705, -7.66136	88	50

339	Front & Rear Adult Only	Regional Road	R400, Mullingar	Westmeath	53.51977, -7.33999	140	50
340	Front & Rear Adult Only	Regional Road	R392, Mullingar	Westmeath	53.51727, -7.38454	140	50
341	Front & Rear Adult Only	Regional Road	R760, Ballyorney Road	Wicklow	53.17945, -6.17348	140	50
342	Front & Rear Adult Only	County Road	Ballyknockane	Cork	52.05973, -8.61416	31	60
343	Front & Rear Adult Only	County Road	Ballymackeagh	Cork	51.92558, -7.98483	69	60
344	Front & Rear Adult Only	County Road	Ballineanig	Kerry	52.15963, -10.3925	65	60
345	Front & Rear Adult Only	County Road	Kilfenora	Clare	52.9899, -9.21756	127	50
346	Front & Rear Adult Only	County Road	Cappaquin-Youghal	Waterford	52.14602, -7.84987	106	50
401	Front & Rear Adult Only	County Road	Tobersoole Lane	Dublin	53.6281839, -6.2308853	62	60
402	Front & Rear Adult Only	Regional Road	R125, Bonestown	Meath	53.52134, -6.51965	140	80
403	Front & Rear Adult Only	County Road	Millview Road Malahide	Dublin	53.4475, -6.17731	140	50
506	Front & Rear Adult Only	County Road	Glanworth	Cork	52.18794, -8.35724	140	50
601	Rear Only Adult Only	Urban	Rathlone Near Bridge At Roundtowe	Westmeath	53.42361, -7.94266	44	50
602	Rear Only Adult Only	Urban	Carlow Junction of Main Street & N9	Carlow	52.84609, -6.90795	140	50
603	Rear Only Adult Only	Urban	Near Jack Lynch Tunnel, Cork	Cork	51.90659, -8.3967	69	50
604	Rear Only Adult Only	Urban	Old N1 Drogheda	Louth	53.7130668, -6.3483937	122	50
605	Rear Only Adult Only	Urban	Dundalk Main Street	Louth	54.0042788, -6.4020628	140	50
606	Rear Only Adult Only	Urban	Longford Town Main Street	Longford	53.72818, -7.801	29	50
607	Rear Only Adult Only	Urban	Main St, Mullingar	Westmeath	53.5258, -7.341	48	30
608	Rear Only Adult Only	Urban	Newcastle West Main Street	Limerick	52.45141, -9.06034	38	50
609	Rear Only Adult Only	Urban	Salthill	Galway	53.26012, -9.07318	40	50
610	Rear Only Adult Only	Urban	Seatown Roundabout Swords	Dublin	53.46075, -6.21249	140	50
611	Rear Only Adult Only	Urban	Sligo Town	Sligo	54.27058, -8.47156	90	50
612	Rear Only Adult Only	Urban	Thurles N62 Main Street	Tipperary	52.67819, -7.81391	140	50
613	Rear Only Adult Only	Urban	Main Street, Tralee	Kerry	52.27105, -9.70623	21	50
404	Primary School	Unclassified	Aine Naofa	Galway	53.06723, -8.81924	30	50
405	Primary School	Unclassified	St Aidans National School	Dublin	53.286666, -6.404721	51	30
406	Primary School	Unclassified	Oatlands National School	Dublin	53.291574, -6.205066	46	50
407	Primary School	Unclassified	Holy Family Baloonagh Primary School	Kerry	52.27105, -9.71121	132	50
408	Primary School	Unclassified	Holy Family National School	Donegal	54.495187, -8.200673	104	50
409	Primary School	Unclassified	Mountmellick Primary School	Laois	53.11853, -7.32997	86	50
410	Primary School	Unclassified	Naomh Padraig	Dublin	53.49252, -6.13537	140	50
411	Primary School	Unclassified	Rathdrum Boys National School	Wicklow	52.932297, -6.23111	28	50
412	Primary School	Unclassified	Presentation College	Tipperary	52.68028, -7.80672	140	50
413	Primary School	Unclassified	Rath Eoghan	Westmeath	53.65533, -7.51929	39	50

414	Primary School	Unclassified	Scoil na Molua	Limerick	52.6554, -8.6331	97	50
415	Primary School	Unclassified	Schoil Spirit Naomh	Cork	51.8787, -8.52695	54	50
416	Primary School	Unclassified	St Michaels Primary School	Cavan	53.98283, -7.23649	33	50
417	Secondary School	Unclassified	St Jarlaths College, Tuam	Galway	53.51583, -8.84566	140	50
418	Secondary School	Unclassified	Tullow Community School	Carlow	52.80018, -6.73458	140	50
419	Secondary School	Unclassified	Ardee Community School	Louth	53.85882, -6.54076	140	50
420	Secondary School	Unclassified	Muckross Park College	Dublin	53.321757, -6.242551	54	50
421	Secondary School	Unclassified	Ballyfermot VEC (Kylemore College)	Dublin	53.345208, -6.351727	40	30
422	Secondary School	Unclassified	CBS Kilkenny Secondary School	Kilkenny	52.652944, -7.256201	74	50
423	Secondary School	Unclassified	Colaiste Mhuire, Cobh	Cork	51.85387, -8.2937	140	50
424	Secondary School	Unclassified	Carrick-On- Shanon Community School	Leitrim	53.94845, -8.08527	140	50
425	Secondary School	Unclassified	Drumcollogher Community	Limerick	52.34177, -8.90316	140	50
426	Secondary School	Unclassified	Leixlip Community	Kildare	53.3626, -6.49968	140	50
427	Secondary School	Unclassified	Creagh college Gorey	Wexford	52.675327, -6.313957	123	50
428	Secondary School	Unclassified	Scoil Mhuire Greenhill	Tipperary	52.34886, -7.39983	140	50
429	Secondary School	Unclassified	Scoil Muire Gan Smal	Roscommon	53.62756, -8.19672	68	50
430	Secondary School	Unclassified	St. Joseph's, Rochefortbridge	Westmeath	53.4138, -7.3015	78	50
431	Secondary School	Unclassified	St. Mary's School Ballisodare	Sligo	54.20991, - 8.51185	140	50

Appendix B – Table of Figures