



**NATIONAL LITTER INDEX
2016 - 2017**

TASMANIA RESULTS

**KEEP AUSTRALIA BEAUTIFUL NATIONAL ASSOCIATION
September 2017**

**E john@kesab.asn.au
www.kab.org.au**

Tasmania

Key Messages and Insights

- An increase of 6% litter items counted in the 2016/17 from the previous year, with rises in cigarettes (+6.4%), plastic bags (+107.7%), takeaway food packaging (+2.0%), other paper (+24.4%), and general other litter items (+17.7%).
- Cigarette litter remained the same proportion (69%) of the overall litter stream, despite cigarette related litter increasing by over 6%.
- Longer term trends showing litter reducing in most sites except retail precincts and shopping centres.
- Retail precincts, shopping centres and industrial precincts are the most littered locations
- Volumetric loads also increased by 1.1% with industrial precincts recording the highest volumetric litter loads

Survey Specifics

The national litter index surveys 76 sites across Tasmania, with an area surveyed of 99,740 square metres. While the primary focus of the survey is across Hobart suburban areas, a number of regional/rural sites, are also surveyed. A further 8 rural highway/road sites are surveyed and reported separately.

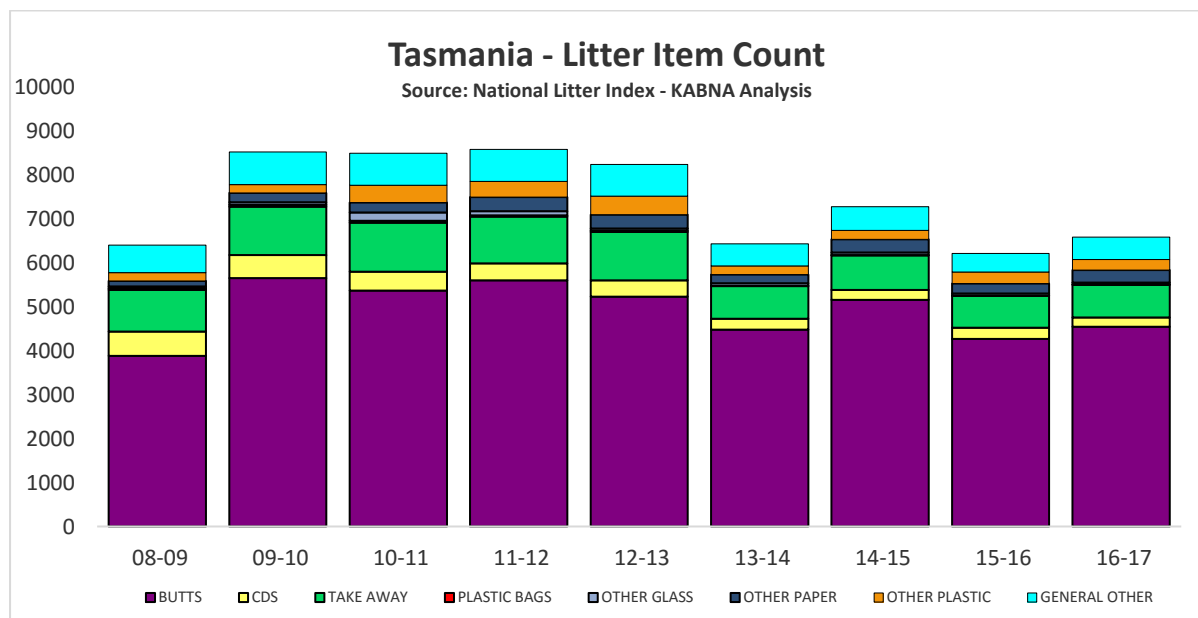
Site Types	Number Surveyed			Area Surveyed (sq m)
	Suburban	Regional	Total	
Beaches	5	3	8	4,050
Car Parks	9	2	11	16,378
Major Roads/Highways	8	5	13	36,200
Industrial Precincts	7	2	9	4,540
Recreational Parks	4	3	7	14,000
Residential Streets	11	2	13	10,650
Retail Precincts	5	3	8	5,172
Strip Shopping Precincts	6	1	7	8,750
TOTAL	55	21	76	99,740

Litter Counts

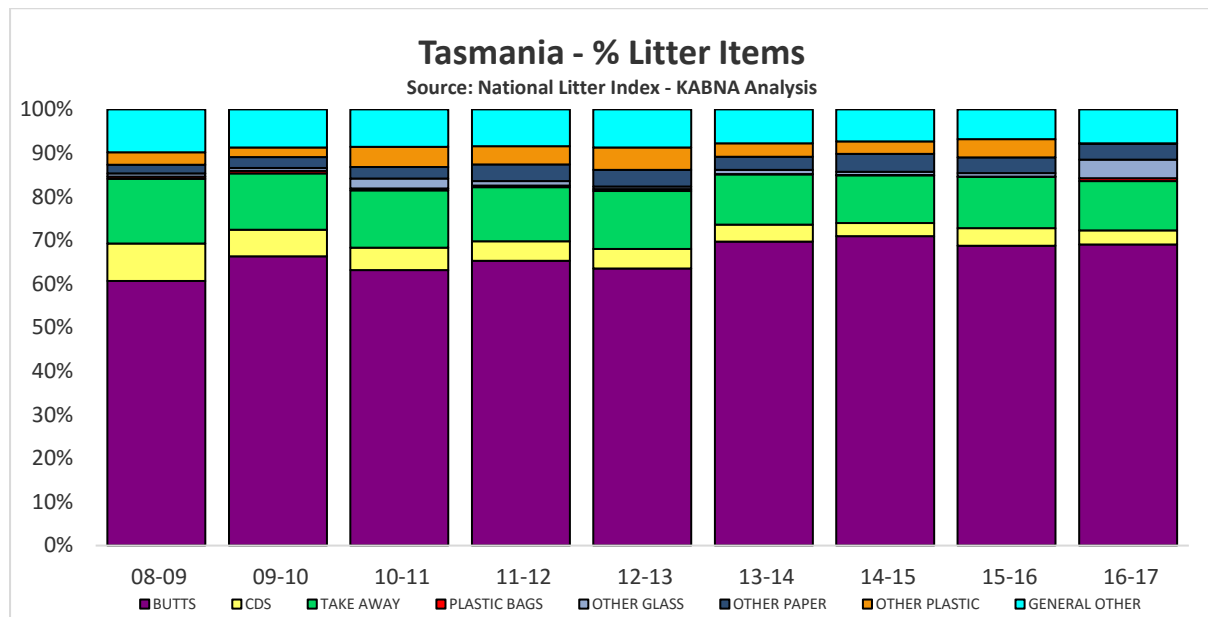
As demonstrated in the following table, the 2016/17 litter monitor recorded an 6.0% increase in litter items from 2015/16, which was primarily due to increases in several different categories including cigarette butts (6.4%), plastic bags (107.7%), takeaway food packaging (2.0%), other paper (24.4%), and general other litter items (17.7%). The increases were offset by reductions in beverage container litter (-11.7%), other glass (-16.2%) and other plastic (-6.6%) litter.

TAS		Items								
		Beach	Car Park	Highway	Industrial	Recreational Park	Residential	Retail	Shopping Centre	Total
TAS 2016/17	Butts & Packaging	129	669	1343	340	104	272	793	900	4549
	Beverage Containers	6	10	128	30	10	7	10	8	207
	Takeaway Food & Beverage	37	74	235	84	105	45	108	58	744
	Other Glass	11	5	17	6			2	1	44
	Other Paper	24	21	83	54	9	19	37	34	280
	Other Plastic	24	24	83	38	11	26	23	16	243
	General Other	21	44	170	95	20	32	64	70	512
	Plastic Bags	2	1	9	2		1			14
	Illegal Dumping				1	1				1
	GRAND TOTAL	252	847	2066	647	260	401	1037	1085	6592
TAS 2015/16	Butts & Packaging	71	521	1471	221	200	287	722	784	4275
	Beverage Containers	6	8	132	50	13	16	6	6	235
	Takeaway Food & Beverage	29	54	208	64	171	79	67	60	730
	Other Glass	9	10	19	3		3	4	1	53
	Other Paper	18	23	66	43	19	18	20	19	225
	Other Plastic	25	20	94	35	27	33	14	13	260
	General Other	19	33	135	96	34	34	35	53	435
	Plastic Bags	1		4	2		1			7
	Illegal Dumping					1				1
	GRAND TOTAL	177	668	2128	512	463	469	867	936	6217
% REDUCTION	Butts & Packaging	-82.3%	-28.4%	8.7%	-54.0%	47.9%	5.1%	-9.9%	-14.8%	-6.4%
	Beverage Containers		-33.3%	2.7%	41.0%	20.0%	58.1%	-66.7%	-25.0%	11.7%
	Takeaway Food & Beverage	-25.9%	-37.4%	-13.0%	-31.5%	38.7%	42.7%	-62.4%	3.3%	-2.0%
	Other Glass	-22.2%	52.6%	13.2%	-120.0%		100.0%	50.0%		16.2%
	Other Paper	-37.1%	8.7%	-26.0%	-25.6%	52.6%	-5.6%	-85.0%	-76.3%	-24.4%
	Other Plastic	4.0%	-20.0%	12.2%	-7.1%	58.5%	21.5%	-66.7%	-19.2%	6.6%
	General Other	-7.9%	-33.3%	-25.6%	0.5%	41.2%	5.9%	-82.9%	-31.1%	-17.7%
	Plastic Bags	-50.0%		-157.1%						-107.7%
	Illegal Dumping									
	Grand Total (excluding illegal dumping)	-42.5%	-26.9%	2.9%	-26.3%	44.0%	14.5%	-19.6%	-15.9%	-6.0%
GRAND TOTAL	-42.5%	-26.9%	2.9%	-26.4%	44.0%	14.5%	-19.6%	-15.9%	-6.0%	

The following demonstrate the longer-range trends in litter counted across the Tasmanian NLI sites. Litter counts were relatively unchanged from 2009/10 until 2012/13. In 2013/14 there was a major reduction in litter counted although the following year saw litter increase only to fall again in the 2015/16 monitor. The lack of a discernible trend makes it difficult to draw conclusions and so future monitors will be required to ascertain the sustainability of recent reductions.



Overall, cigarette litter represents an increasingly larger proportion of Tasmania's litter stream with beverage containers and takeaway food packaging reducing in proportion. These three categories, however, consistently represent 80-85% of Tasmania's litter stream which is significantly higher than that seen in other jurisdictions.



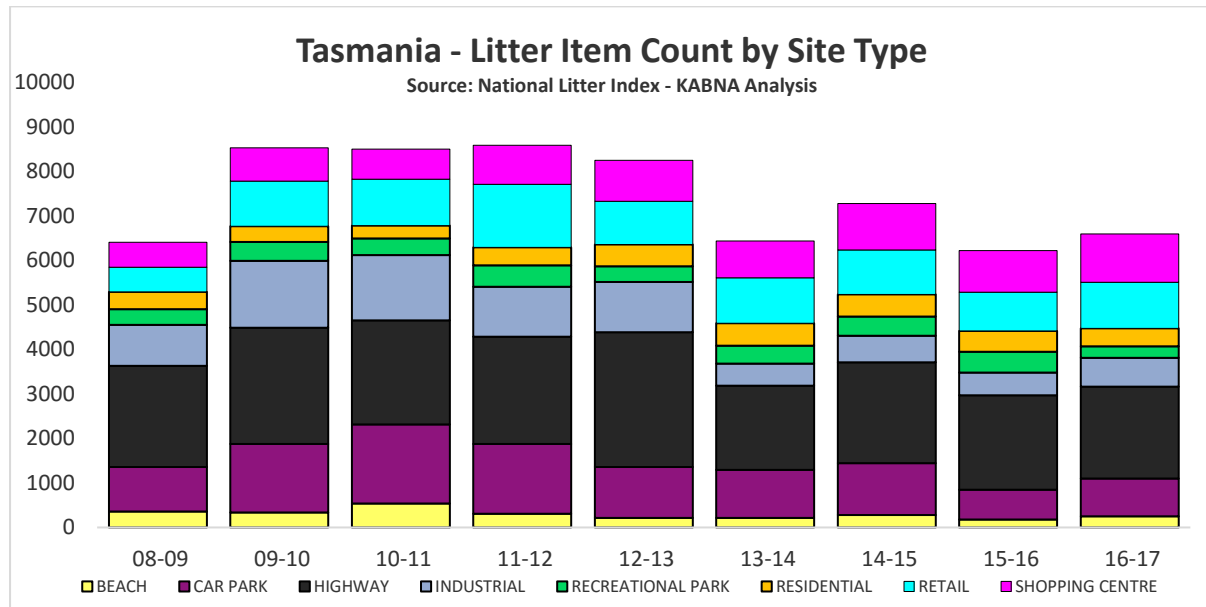
Volumetric Impacts

Tasmania's 6.0% increase in litter items counted corresponded with a 1.1% rise in litter volume (excluding illegal dumping). The main contributor to the litter volume increasing marginally was the more non-specific general litter items counted.

		Volume - Litres									
TAS		Beach	Car Park	Highway	Industrial	Recreational Park	Residential	Retail	Shopping Centre	Total	
TAS 2016/17	Butts & Packaging	0.124	0.621	3.203	1.237	0.012	0.358	0.527	0.757	6.838	
	Beverage Containers	2.536	5.107	71.094	18.310	4.932	3.056	5.509	4.391	114.937	
	Takeaway Food & Beverage	3.233	7.471	29.633	11.730	1.630	3.197	3.968	1.481	62.344	
	Other Glass	0.216	0.088	0.324	0.108	0.069	0.039	0.028	0.019	0.864	
	Other Paper	0.081	0.071	0.279	0.183	0.030	0.064	0.125	0.113	0.946	
	Other Plastic	0.030	0.030	0.103	0.047	0.014	0.032	0.028	0.019	0.303	
	General Other	24.238	1.204	32.325	23.647	1.833	1.855	2.789	1.446	89.337	
	Plastic Bags	0.051	0.034	0.547	0.078		0.044			0.753	
	Illegal Dumping				12.000						12.000
	GRAND TOTAL		30.509	14.626	137.509	67.339	8.520	8.606	12.985	8.227	288.322
TAS 2015/16	Butts & Packaging	0.117	0.604	4.742	1.767	0.132	0.468	0.736	0.417	8.984	
	Beverage Containers	2.542	4.276	64.864	26.237	6.720	9.488	3.312	3.254	120.694	
	Takeaway Food & Beverage	2.372	6.145	32.901	8.020	3.307	6.952	2.734	2.361	64.791	
	Other Glass	0.177	0.187	0.373	0.049	0.088	0.059	0.079	0.020	1.031	
	Other Paper	0.059	0.078	0.221	0.145	0.064	0.061	0.068	0.064	0.761	
	Other Plastic	0.031	0.025	0.118	0.044	0.033	0.041	0.017	0.009	0.318	
	General Other	4.690	2.351	24.673	30.298	0.169	10.509	2.336	1.182	76.207	
	Plastic Bags	0.061	0.253	0.078			0.044			0.435	
	Illegal Dumping										
	GRAND TOTAL		10.048	13.666	128.144	66.639	10.514	27.622	9.281	7.306	273.221
% REDUCTION	Butts & Packaging	-5.7%	-2.8%	32.5%	30.0%	90.9%	23.6%	28.5%	-81.6%	23.9%	
	Beverage Containers	0.2%	-19.4%	-9.6%	30.2%	26.6%	67.8%	-66.3%	-35.0%	4.8%	
	Takeaway Food & Beverage	-36.3%	-21.6%	9.9%	-46.3%	50.7%	54.0%	-45.1%	37.3%	3.8%	
	Other Glass	-22.2%	52.6%	13.2%	-120.0%	22.2%	100.0%	50.0%		16.2%	
	Other Paper	-37.1%	8.7%	-26.0%	-25.6%	52.6%	-5.6%	-85.0%	-76.3%	-24.4%	
	Other Plastic	4.0%	-20.0%	12.2%	-7.1%	58.5%	21.5%	-66.7%	-106.7%	4.5%	
	General Other	-416.8%	48.8%	-31.0%	22.0%	-982.8%	82.3%	-19.4%	-22.3%	-17.2%	
	Plastic Bags	16.2%		-116.2%						-73.1%	
	Illegal Dumping										
	Grand Total (excluding illegal dumping)	-203.6%	-7.0%	-7.3%	17.0%	19.0%	68.8%	-39.9%	-12.6%	-1.1%	
GRAND TOTAL	-203.6%	-7.0%	-7.3%	-1.1%	19.0%	68.8%	-39.9%	-12.6%	-5.5%		

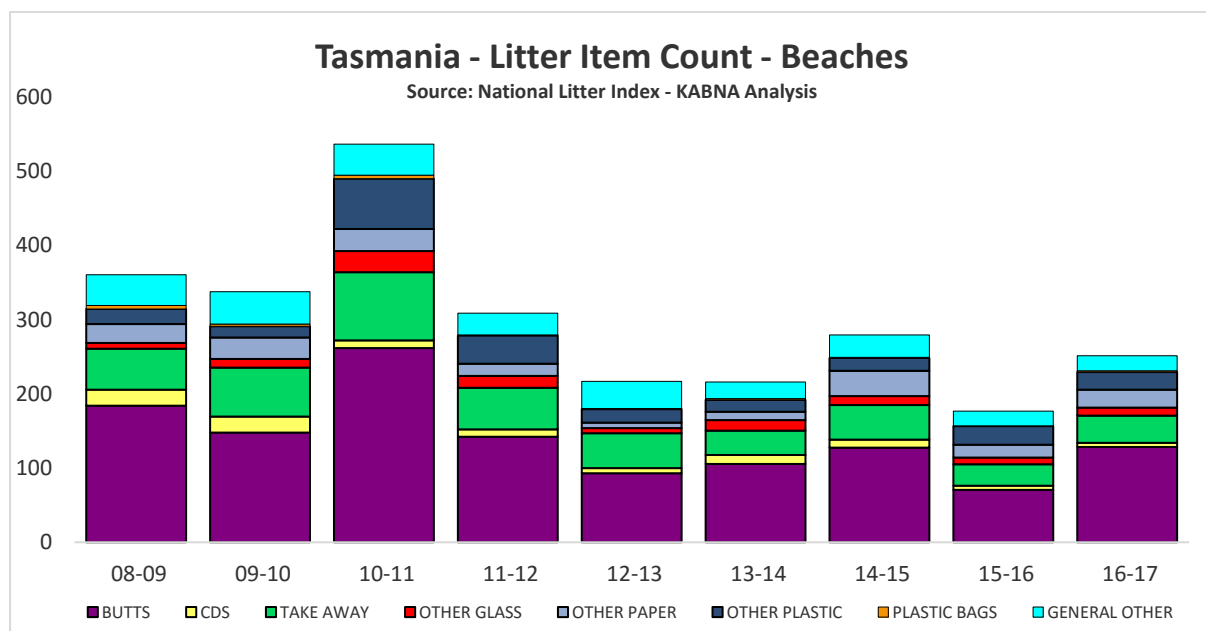
Littering Location

Increases in litter were recorded at most site types including beaches (+42.5%), car parks (+26.9%), industrial precincts (+26.4%), retail precincts (+19.6%) and shopping centres (15.9%) with smaller increases observed elsewhere. The largest reduction in litter was observed at recreational parks (-43.8%), with smaller reductions at residential streets (-14.5%) and major roads and highways (-2.9%).



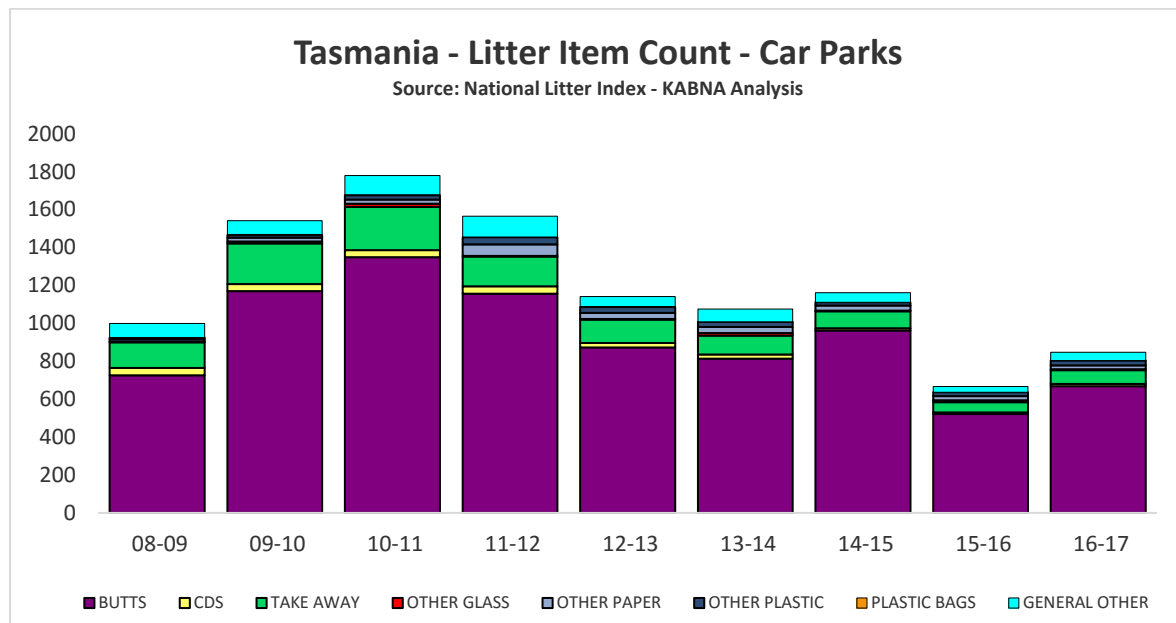
Beaches

Tasmania's beaches recorded a rise of 42.5% in the 2016/17 litter count, predominantly due to an 82.3% increase in cigarette litter. Almost all other categories recorded increases with the exception of beverage containers and other plastic. Over the longer term, litter on Tasmanian beaches has been steadily falling.



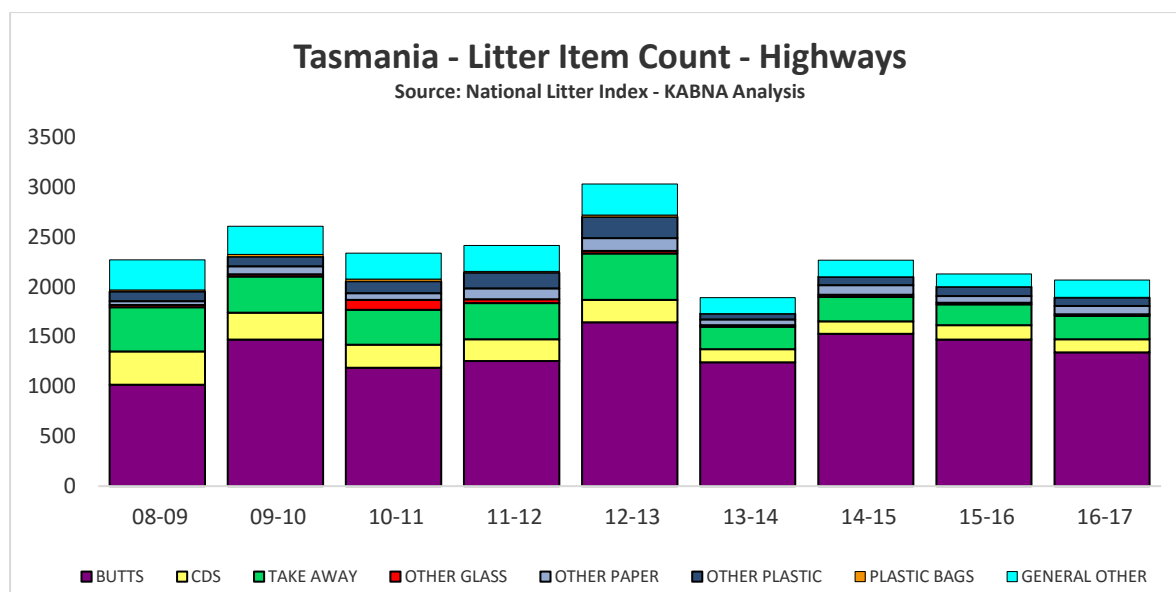
Car Parks

There was also a significant rise in litter in car parks (+26.9%) driven primarily by a 28.4% increase in cigarette litter. With the exception of other glass and other paper, increases were also observed across all other categories. The 2016/17 monitor is consistent with a longer-term trend of declining litter levels in Tasmanian carparks.



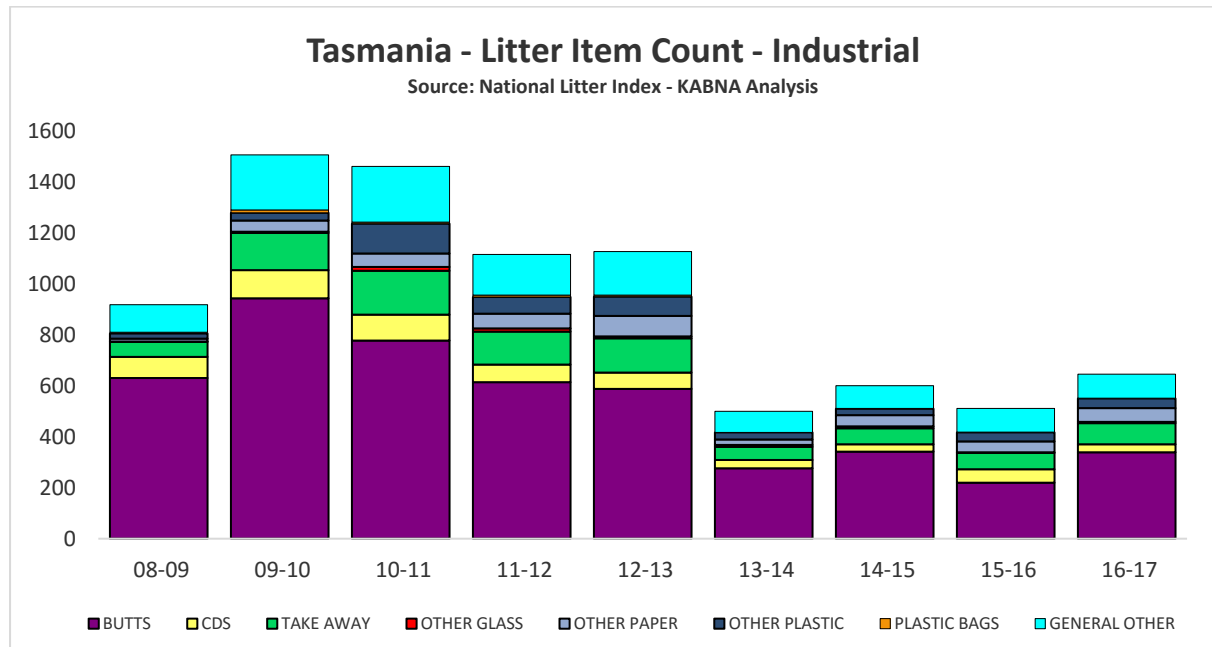
Major Roads/Highways

The 2016/17 litter monitor recorded 2.9% less litter on Tasmania's major roads and highways from the previous year. Decreased quantities of cigarettes, beverage containers, other glass and other plastic offset increased litter across all other categories. The longer-term trend identifies an overall reduction in litter items over time.



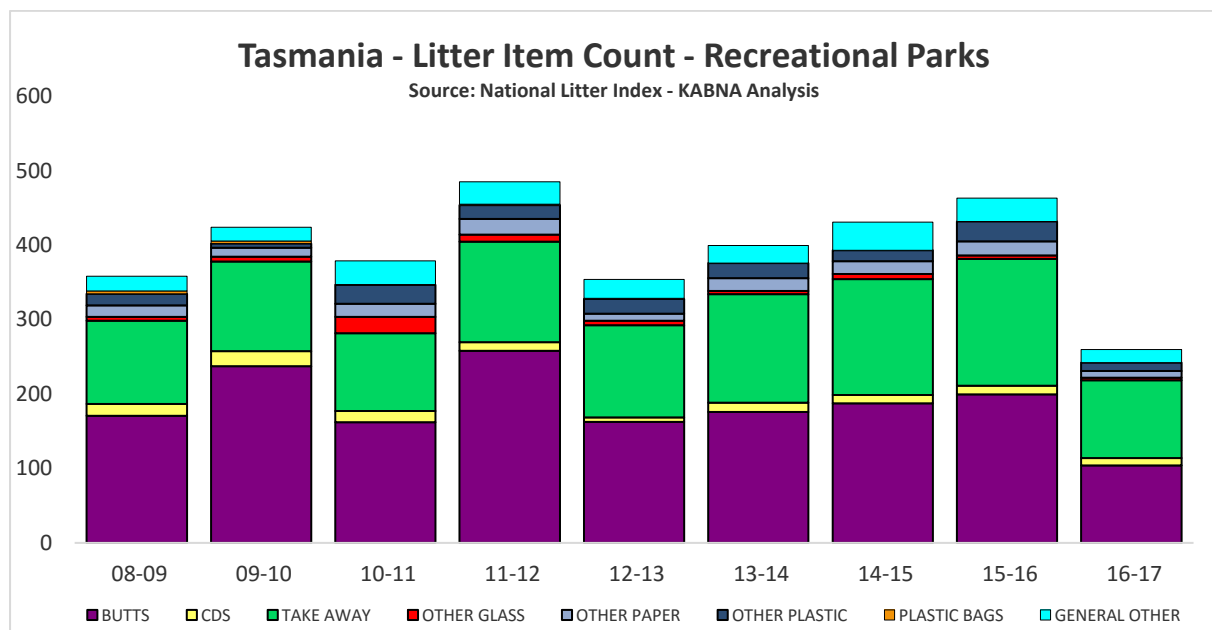
Industrial Precincts

While the 2016/17 litter monitor counted 26.4% more litter items at industrial precincts, the results are similar to the 2014/15 results. The main contributor to the increase of items in the litter stream was cigarettes.



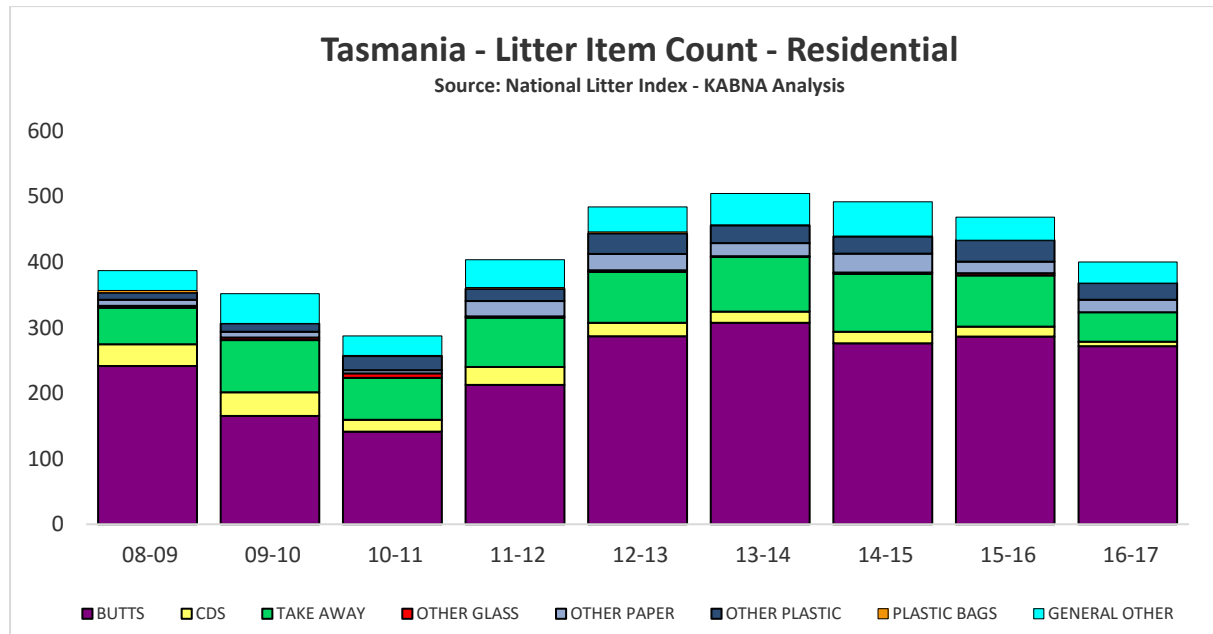
Recreational Parks

Recreational parks experienced a substantial reduction of litter counted in the most recent monitor, after a period of steady increases. The monitor recorded 43.8% less litter items with all litter categories declining. Cigarette litter and takeaway packaging recorded the largest decreases but still remain the dominant categories of litter types observed at recreational parks.



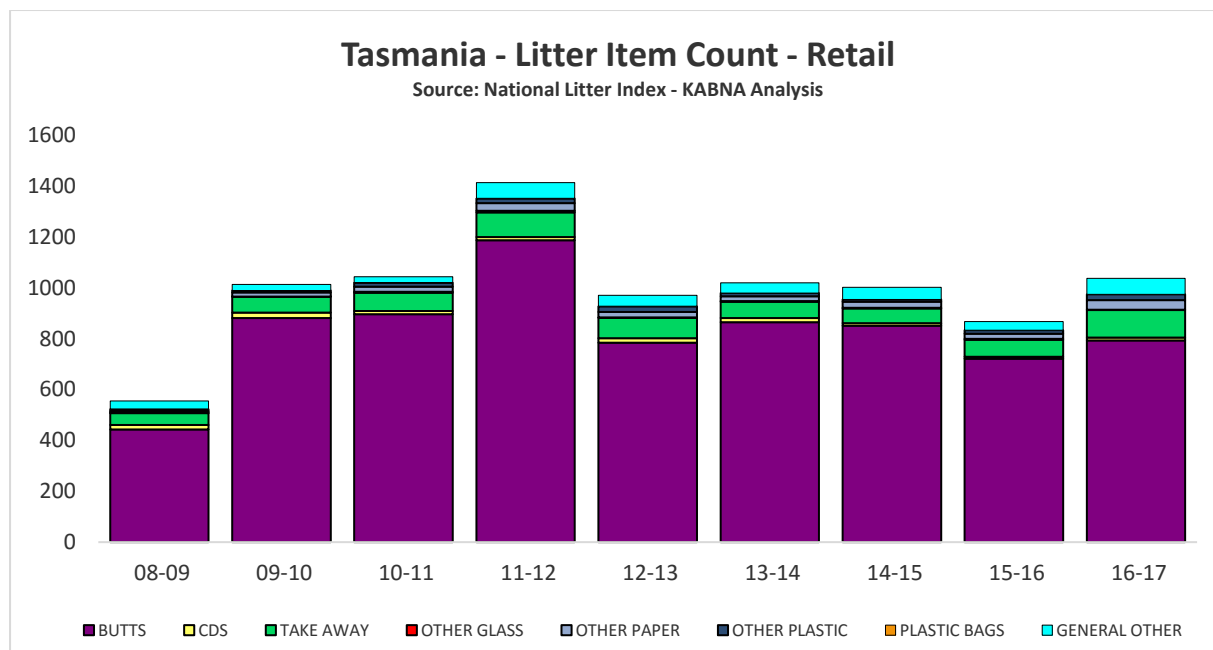
Residential Streets

Litter in Tasmania's residential areas fell again in the 2015/16 count by 14.5%, the third consecutive fall after 3 years of significant increases. Less cigarettes, beverage containers, takeaway food packaging, other glass, other plastic and general other litter was offset marginally by an increase in other paper litter items.



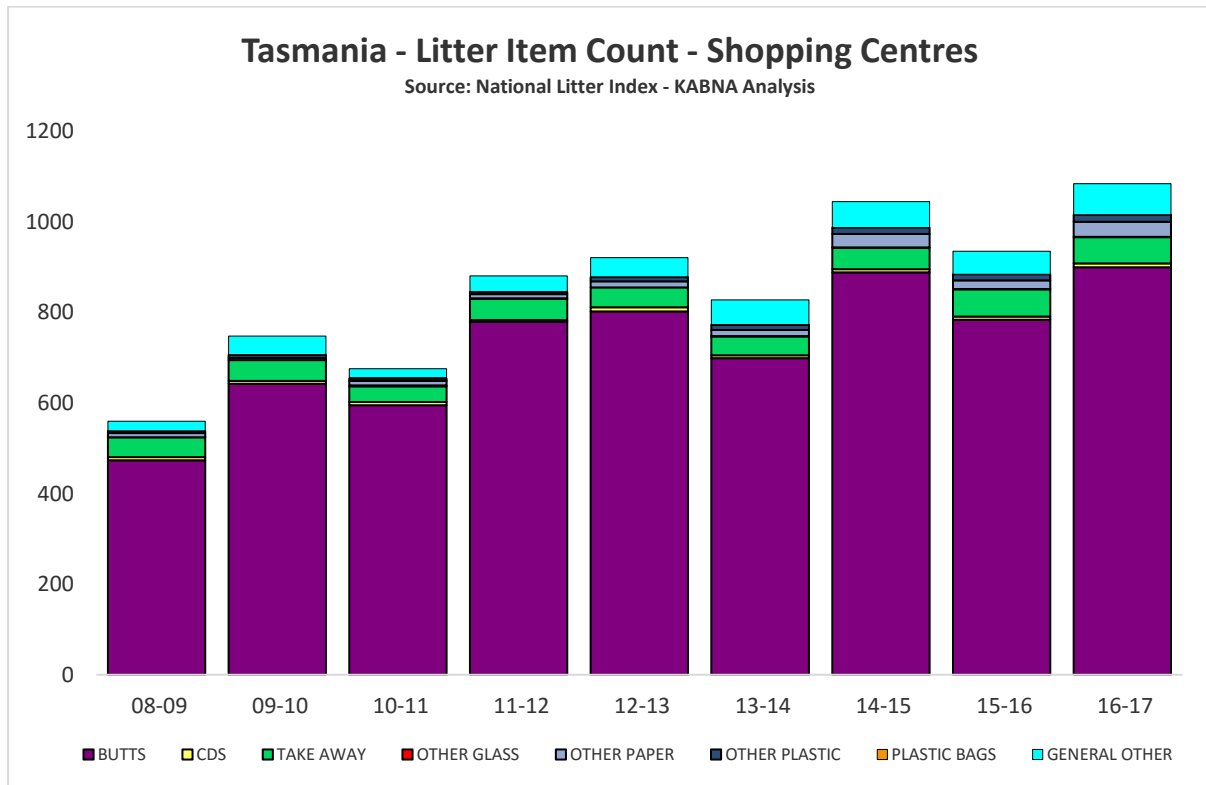
Retail Precincts

Tasmania's retail shopping strips showed a 19.6% rise in litter over the 2016/17 period, continuing a four-year trend of relative stability. The increase was driven mostly by an increase in takeaway food packaging litter (+62.4%) and cigarettes (+9.9%), while general other litter items (+85.3%) and other paper (+85%) also recorded increases.



Shopping Centres

The 2016/17 litter monitor recorded an increase of 15.9% more litter items at shopping centres in Tasmania – continuing the longer-term trend of increasing litter levels at these site types. The main contributor to the increase was cigarette litter (+14.8%).



Normalisation for Area Surveyed

Litter items per 1,000m²

As outlined in the table below, when the area surveyed is taken into account, there were an average of 66 litter items per 1000m² in Tasmania, an increase from 62 items per 1000m² in the 2015/16 monitor. Retail strips have the highest litter loads in Tasmania, with 200 litter items per 1000m².

TAS		Items								
		Beach	Car Park	Highway	Industrial	Recreational Park	Residential	Retail	Shopping Centre	Total
TAS 2016/17	Areas Surveyed	4050	16378	36200	4540	14000	10650	5172	8750	99740
	Items counted (excl illegal dumping)	252	847	2066	646	260	401	1037	1085	6592
	Per 1,000 sq m	62	52	57	142	19	38	200	124	66
TAS 2015/16	Areas Surveyed	4050	16378	36200	4540	14000	10650	5172	8750	99740
	Items counted (excl illegal dumping)	177	668	2128	512	463	469	867	936	6217
	Per 1,000 sq m	44	41	59	113	33	44	168	107	62

Litter volume per 1,000m² (excluding illegal dumping)

There was a marginal increase in litter volume with 2.77 litres per 1000m², up from 2.74 litres per 1000m² in 2015/16. In volumetric terms, industrial precincts have the highest volumetric litter loads (12.19 litres per 1000m²) despite volumes in industrial precincts decreasing from 2015/16 (14.68 litres per 1000m²). Beaches had the second highest incidence of volumetric litter levels with 7.53 litres per 1000m², increasing from 2.48 litres per 1000m² in 2015/16.

TAS		Volume - Litres								
		Beach	Car Park	Highway	Industrial	Recreational Park	Residential	Retail	Shopping Centre	Total
TAS 2016/17	Areas Surveyed	4050	16378	36200	4540	14000	10650	5172	8750	99740
	Volume (excl illegal dumping)	30.509	14.626	137.509	55.339	8.520	8.606	12.985	8.227	276.322
	Per 1,000 sq m	7.53	0.89	3.80	12.19	0.61	0.81	2.51	0.94	2.77
TAS 2015/16	Areas Surveyed	4050	16378	36200	4540	14000	10650	5172	8750	99740
	Volume (excl illegal dumping)	10.048	13.666	128.144	66.639	10.514	27.622	9.281	7.306	273.221
	Per 1,000 sq m	2.48	0.83	3.54	14.68	0.75	2.59	1.79	0.84	2.74

Detailed Litter Count Tables – Tasmania

TAS - NOV 2016 & MAY 17 AVERAGE		Items									Beverage Containers		Takeaway Food	
		Beach	Car Park	Highway	Industrial	Recreational Park	Residential	Retail	Shopping Centre	Total	Beverage container	Items	Takeaway Food	Items
CIGARETTE BUTTS		128	666.5	1328.5	334	104	270.5	791	897	4520				
GLASS	Alcoholic sodas / spirit-based mixers, all sizes			1						1	y	1		
	Beer, all colours of glass, <750ml		0.5	12	2		1	2	1	19	y	19		
	Beer, all colours of glass, 750ml+			0.5						1	y	1		
	Cider/fruit based etc.				1					1	y	1		
	Flav.wtr/fruit j. dr/sprts dr. (non-carb), <1 litre		1	0.5	1					3	y	3		
	Flav.wtr/fruit j. dr/sprts dr. (non-carb), 1 litre+									1	y	1		
	Flav. water/soft drink (carbonated) <1 litre								0.5	1	y	1		
	Flav. water/soft drink (carbonated) 1 litre+									1	y	1		
	Fruit juice, <1 litre					0.5				1	y	1		
	Fruit juice, 1 litre+													
	Other glass	11	4.5	16.5	5.5	3.5		2	1	44				
	Plain water (carbonated or non-carb), <1 litre			0.5						1	y	1		
Plain water (carbonated or non-carb), 1 litre+										y				
Wine & spirit, all sizes			0.5	2					3	y	3			
Wine cooler, all sizes				1					1	y	1			
Total	11	6	33	12	4	1	4	3	73		26			
ILLEGAL DUMPING					0.5					1				
METAL	Aerosols - pressure packs	1		3		0.5				5				
	Alcoholic sodas & spirit-based mixers	0.5	1	15	4		0.5	0.5		22	y	22		
	Beer, aluminium, all types, all sizes	1	1.5	13.5	1.5			0.5	0.5	19	y	19		
	Cider/fruit based etc.	1	1		0.5					3	y	3		
	Flav. water/soft drink, (carbonated), all sizes	2.5	2.5	51	9.5	6	3.5	4.5	3	83	y	83		
	Flav. water/soft drink, (non-carb), all sizes				1					1	y	1		
	Foil take away			1.5	1					3			y	3
	Food cans (including pet food)			8	0.5	0.5	1.5	1		12				
	Industrial cans - all types			0.5						1				
	Metal bottle tops and can pull rings	1.5	12	31.5	4	14	3.5	14	11.5	92			y	92
	Metal pieces	1.5	7	15.5	7.5	1	6	1.5	2.5	43				
	Other foil	2.5	6	10.5	4.5	2	3.5	3	6	38				
Total	12	31	151	33	24	19	25	24	318		127		95	
MISCELLANEOUS	Clothing & materials	2	1	11.5	6	0.5	1.5	1	0.5	24				
	Condoms													
	Construction materials				0.5					1				
	Disposable nappies					0.5				1				
	Ice cream sticks	3.5	4	6.5	5	7.5	1	5	2	35			y	35
	Other miscellaneous	1							2	3				
	Rubber pieces (not tyres)		2.5	4.5	1.5	1.5	1.5	0.5	1.5	14				
	Syringes			1	0.5					2				
	Tyres & pieces	1.5		2.5						4				
	Total	7	9	26	14	10	4	9	4	82				35
PAPER/PAPERBOARD	Cartons, flavoured milk <1 litre		0.5	1.5	0.5	2	1	0.5		6	y	6		
	Cartons, flavoured milk 1 litre+													
	Cartons, fruit juice, <1 litre		0.5		0.5				0.5	2	y	2		
	Cartons, fruit juice, 1 litre+													
	Cartons, milk, plain (white) all sizes													
	Cigarette packets	0.5	2.5	14	5.5		1.5	2	3	29				
	Cups/take away containers	2.5	7.5	30	12.5	0.5	2.5	3.5	1	60			y	60
	Flav. water/fruit j. drink/sports drink, non-carb, <1 litre										y			
	Flav. water / fruit j. drink/ sports drink, (non-carb), 1 litre+				0.5					1	y	1		
	Ice cream wrappers	2		1.5						4			y	4
	Junk mail / free circulars		1.5	8.5	3		5	1.5	1	21				
	Newspapers & magazines	0.5		3.5	2	0.5		0.5		7				
	Other paper	24	21	82.5	54	9	19	37	33.5	280				
Packages & boxes	0.5	3	16.5	14	0.5	2	6	4	47					
Paper bags	1.5	1.5	12	5	2.5	1.5	4	1	29					
Shopper dockets & related shopping paper (eg. lists)	2	6.5	12	2.5	1.5	2.5	29	34	90					
Tickets, e.g. bus, ATM, vending machine etc.		7.5	4	2	0.5	1	4	6.5	26					
Total	34	52	185	104	17	36	88	85	599		8		64	
PLASTIC	6 ring can holders			1						1				
	Bags - heavier glossy typically branded carry bags			4.5	0.5		0.5			6				
	Bags - supermarket type light weight carry bags	1.5	1	4.5	1					8				
	Bread bag tags		3	2.5		1.5	0.5	1	0.5	9				
	Containers, domestic type			1	0.5					2				
	Containers, industrial e.g. oil	1			0.5					2				
	Drink pouches										y			
	Flav. milk, <1 litre		1	8	3			1.5	1.5	15	y	15		
	Flav. milk, 1 litre+										y			
	Flav.wtr/fruit j. dr. sprts dr etc (non-carb) <1 litre				1	0.5			0.5	2	y	2		
	Flav.wtr/fruit j. dr. sprts dr etc (non-carb) 1 litre+				1	0.5				2	y	2		
	Flav. water/soft drink (carbonated) <1 litre		0.5	11.5	3	1		0.5	0.5	17	y	17		
	Flav. water/soft drink (carbonated) 1 litre+			7	1.5			0.5	0.5	10	y	10		
	Fruit juice <1 litre			1.5		0.5				2	y	2		
	Fruit juice, 1 litre+													
	Lollipop sticks	1	4	6.5	2	14	4	11.5	2.5	46			y	46
	Other plastic	24	24	82.5	37.5	11	25.5	22.5	15.5	243				
	Packing tape & straps	1	0.5	8.5	9	0.5	0.5	2.5	0.5	23				
	Plain water (carbonated or non-carb) <1 litre	0.5	1	9.5	2.5			0.5	1	15	y	15		
	Plain water (carbonated or non-carb) 1 litre+				0.5					1	y	1		
	Plastic bottle tops	3	4	25.5	8	15.5	6	13.5	6	82			y	82
	Sacks - sheeting - other bags	4	2	25.5	25	3.5	5	4.5	10	80				
	Snack bags & confectionary wrappers	15.5	24	73.5	36.5	28	16	46.5	26	266			y	266
Spoons/ cutlery	0.5	6	4.5	0.5	7	3.5	1.5	1.5	25			y	25	
Straws	1	4	26.5	4	14.5	3	8.5	5.5	67			y	67	
Styrene foam boxes, sheets, etc	1.5		6	5.5			0.5		14					
Take away & cups	6	8	29	8.5	3.5	5.5	4	2	67			y	67	
White milk, all sizes				1					1					
Wine cask bladders				1					1					
Total	61	83	343	151	101	70	120	74	1001		63		552	
GRAND TOTAL	252	847	2066	647	260	401	1037	1085	6592		223		744	

Detailed Litter Volume Tables – Tasmania

TAS - NOV 2016 & MAY 17 AVERAGE		Volume - Litres									Beverage Containers		Takeaway Food	
		Beach	Car Park	Highway	Industrial	Recreational Park	Residential	Retail	Shopping Centre	Total	Beverage container	Items	Takeaway Food	Items
CIGARETTE BUTTS		0.014720	0.076648	0.152778	0.038410	0.011960	0.031108	0.090965	0.103155	0.519743				
GLASS	Alcoholic sodas / spirit-based mixers, all sizes			0.374300						0.374300	y	0.374		
	Beer, all colours of glass, <750ml		0.231462	5.555090	0.925848		0.462924	0.925848	0.462924	8.564097	y	8.564		
	Beer, all colours of glass, 750ml+			0.453646						0.453646	y	0.454		
	Cider/fruit based etc.				0.457853					0.457853	y	0.458		
	Flav wtr/fruit j, dr/sprts dr, (non-carb), <1 litre		0.554287	0.277143	0.554287					1.385717	y	1.386		
	Flav wtr/fruit j, dr/sprts dr, (non-carb), 1 litre+										y			
	Flav. water/soft drink (carbonated) <1 litre								0.197920	0.197920	y	0.198		
	Flav. water/soft drink (carbonated) 1 litre+										y			
	Fruit juice, < 1 litre					0.212058				0.212058	y	0.212		
	Fruit juice, 1 litre+										y			
	Other glass	0.216040	0.088380	0.324060	0.109020	0.068740		0.039280	0.019640	0.864160				
	Plain water (carbonated or non-carb), <1 litre			0.290534						0.290534	y	0.291		
Plain water (carbonated or non-carb), 1 litre+										y				
Wine & spirit, all sizes			0.445700	1.782000					2.228500					
Wine cooler, all sizes			0.374300						0.374300					
Total	0.216040	0.874129	8.094774	3.828908	0.280798	0.462924	0.965128	0.680484	15.403085		11.936			
ILLEGAL DUMPING					12.000000				12.000000					
METAL	Aerosols - pressure packs	0.684240		2.052720		0.342120				3.079080				
	Alcoholic sodas & spirit-based mixers	0.215700	0.431400	6.471000	1.725600		0.215700	0.215700	9.275100	y	9.275			
	Beer, aluminium, all types, all sizes	0.431400	0.647100	5.823900	0.647100		0.215700	0.215700	8.196600	y	8.197			
	Cider/fruit based etc.	0.431400	0.431400		0.215700				1.078500	y	1.079			
	Flav. water/soft drink, (carbonated), all sizes	1.063838	1.063838	21.702299	4.042585	2.553212	1.489373	1.914909	1.276806	35.106680	y	35.107		
	Flav. water/soft drink, (non-carb), all sizes			0.381600						0.381600	y	0.382		
	Foil take away			0.693570	0.462380					1.155950			y	1.156
	Food cans (including pet food)			3.710400	0.231900	0.231900	0.695700	0.463800		5.333700				
	Industrial cans - all types			2.285020						2.285020				
	Metal bottle tops and can pull rings	0.006000	0.048000	0.126000	0.018000	0.056000	0.014000	0.056000	0.046000	0.388000				0.368
	Metal pieces	0.015900	0.074200	0.164300	0.079500	0.010600	0.063600	0.015900	0.026500	0.450500				
	Other foil	0.003900	0.009360	0.016380	0.007020	0.003120	0.005460	0.004680	0.009360	0.059280				
Total	2.852378	2.705298	43.427189	7.427785	3.196652	2.886689	1.574166	6.679990			54.038		1.524	
MISCELLANEOUS	Clothing & materials	0.030600	0.015300	0.175950	0.091800	0.007650	0.022950	0.015300	0.007650	0.387200				
	Condoms				0.180000					0.180000				
	Construction materials									0.562500				
	Disposable nappies					0.562500				0.562500				
	Ice cream sticks	0.003220	0.003680	0.005980	0.004600	0.006900	0.000920	0.004600	0.001840	0.031740			y	0.032
	Other miscellaneous	0.033750	0.033750	0.006750	0.013500	0.013500	0.033750	0.020250		0.152520				
	Rubber pieces (not tyres)		0.000165	0.000494	0.000247	0.000082	0.000082			0.001069				
	Syringes													
	Tyres & pieces	0.337500		0.562500						0.900000				
	Total	0.371320	0.052895	0.778674	0.283397	0.590632	0.037452	0.053650	0.029740	2.197759				0.032
PAPER/PAPERBOARD	Cartons, flavoured milk < 1 litre		0.336240	1.008720	0.336240	1.344960	0.672480	0.336240		4.034880	y	4.035		
	Cartons, flavoured milk 1 litre+													
	Cartons, fruit juice, < 1 litre		0.312375		0.312375				0.312375	0.937125	y	0.937		
	Cartons, fruit juice, 1 litre+													
	Cartons, milk, plain (white), all sizes													
	Cigarette packets	0.108935	0.544675	3.050180	1.198285		0.326805	0.435740	0.653610	6.318230				
	Cups/take away containers	1.822375	5.467125	21.868500	9.111875	0.364475	1.822375	2.551325	0.728950	43.737000			y	43.737
	Flav. water/fruit j, drnk/sports drink, non-carb, <1 litre				1.035000					1.035000	y	1.035		
	Flav. water / fruit j, drnk / sports drink, (non-carb), 1 litre+				0.003600					0.003600	y			0.008
	Ice cream wrappers	0.004800											y	
	Junk mail / free circulars		0.261000	1.479000	0.522000		0.870000	0.281000	0.174000	3.567000				
	Newspapers & magazines	0.590000		4.130000	2.360000	0.590000		0.590000		8.260000				
	Other paper	0.081120	0.070980	0.278850	0.182520	0.030420	0.064220	0.125060	0.113230	0.946400				
	Packages & boxes	0.040000	0.240000	1.320000	1.120000	0.040000	0.160000	0.480000	0.320000	3.720000				
	Paper bags	0.015870	0.015870	0.126960	0.052900	0.028450	0.015870	0.042320	0.010580	0.306820				
Shopper dockets & related shopping paper (eg. lists)	0.004060	0.013195	0.024360	0.005075	0.003045	0.005075	0.058870	0.069020	0.182700					
Tickets, e.g. bus, ATM, vending machine etc.	0.006600	0.003520	0.001760	0.006440	0.000880	0.003520	0.005720		0.022440					
Total	2.667160	7.268060	33.290090	16.241630	2.399790	3.937705	4.884075	2.387485	73.075995		6.007		43.745	
PLASTIC	6 ring can holders			0.001500						0.001500				
	Bags - heavier glossy typically branded carry bags			0.394200	0.043800		0.043800			0.481800				
	Bags - supermarket type light weight carry bags	0.050910	0.033840	0.152730	0.033940					0.271520				
	Bread bag tags		0.000690	0.000575		0.000345	0.000115	0.000230	0.000115	0.002070				
	Containers, domestic type			8.324000	4.162000					12.486000				
	Containers, industrial e.g. oil	22.458000			11.229000					33.687000				
	Drink pouches										y			
	Flav. milk, <1 litre		0.532700	4.281600	1.598100			0.799050	0.799050	7.990500	y	7.991		
	Flav. milk, 1 litre+										y			
	Flav.wtr/fruit j, dr, sprts dr etc (non-carb) <1 litre			0.737620	0.368810			0.368810		1.475240	y	1.475		
	Flav. wtr/fruit j, dr, sprts dr etc (non-carb) 1 litre+			1.201103	0.600551					1.801654	y	1.802		
	Flav. water/soft drink (carbonated) <1 litre		0.311055	7.154265	1.866330	0.622110		0.311055	0.311055	10.575870	y	10.576		
	Flav. water/soft drink (carbonated) 1 litre+			11.578000	2.481000			0.827000	0.827000	15.713000	y	15.713		
	Fruit juice <1 litre			0.800070		0.200023				0.800093	y	0.800		
	Fruit juice, 1 litre+										y			
	Lollipop sticks	0.000530	0.002120	0.003445	0.001060	0.007420	0.002120	0.006095	0.001325	0.024415			y	0.024
	Other plastic	0.030000	0.030000	0.103125	0.046875	0.013750	0.031875	0.028125	0.019375	0.303125				
	Packing tape & straps	0.000270	0.000135	0.002295	0.002430	0.000135	0.000135	0.000675	0.000135	0.006210				
	Plain water (carbonated or non-carb) <1 litre	0.393950	0.787900	7.485050	1.989750			0.393950	0.787900	11.818500	y	11.819		
	Plain water (carbonated or non-carb) 1 litre+				0.770785					0.770785	y	0.771		
	Plastic bottle tops	0.024015	0.032020	0.204128	0.064040	0.124078	0.048030	0.108068	0.048030	0.652408			y	0.652
	Sacks - sheeting - other bags	0.001260	0.000630	0.008033	0.007875	0.001103	0.001575	0.001418	0.003150	0.025043				
	Snack bags & confectionary wrappers	0.121365	0.187920	0.575505	0.285795	0.219240	0.125280	0.364095	0.203580	2.082780			y	2.083
Spoons/ cutlery	0.004800	0.057600	0.043200	0.004800	0.067200	0.033600	0.014400	0.014400	0.240000			y	0.240	
Straws	0.004125	0.016500	0.109313	0.018500	0.059813	0.012375	0.035063	0.022688	0.276375			y	0.276	
Styrene foam boxes, sheets, etc	0.056250		0.225000	0.206250			0.018750		0.506250					
Take away & cups	1.242120	1.656160	6.003580	1.759670	0.724570	1.138610	0.828080	0.414040	13.766830			y	13.767	
White milk, all sizes			2.136690						2.136690					
Wine cask bladders			0.460000						0.460000					
Total	24.387695	3.649370	51.765025	<										