



**NATIONAL LITTER INDEX
2018 - 2019**

NORTHERN TERRITORY RESULTS

KEEP AUSTRALIA BEAUTIFUL NATIONAL ASSOCIATION
August 2019

www.kab.org.au

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Introduction

The 2018/19 survey reports the results of biannual litter counts at the same, undisclosed 76 sites across the Northern Territory. While over time additional rural highway sites have been added, the heart of the survey remains and the NLI is Australia's only long term, consistent survey of litter. Also unchanged is its aim to build a deeper understanding of what is being littered, and where, and how that is changing over time.

The National Litter count was initiated in during November 2005, with a second count conducted in May 2006. The National KAB reporting commenced in 2006/07, the 2019/19 National litter counts were conducted during November 2018 and May 2019.

Purpose

The purpose of the National Litter Index is to provide insight regarding:

- The presence of litter items at sites within broadly comparable regions.
- Estimated volumes of litter objects within the litter stream, based upon a volume-per-item model.
- The contribution of objects recognised within established litter categories to the overall litter stream.

It is expected that the information derived from this research will be used by governments and community organisations to develop policies/ programs that will reduce litter and create increased pride in communities.

Limitations

The National Litter Index is not a study of littering behaviour. It is exclusively intended as an assessment of the presence of litter objects within surveyed regions. As such, no corrections for population densities are carried out. The information derived from the Index provides no indication of whether residents of a particular region litter more or less frequently than those in a different region. It does, however, provide insight regarding (a) the relative presence or absence of litter objects and particular material types within the regions surveyed, and (b) result trends over time. As such, findings are considered to be broadly but tentatively standardised to regions of a similar type.

Methodology

Scope

Sites surveyed within the research program were sampled primarily from urban and near-urban areas (i.e. generally within 50km of the urban areas surrounding each state capital). Generalisation of findings to regional locations must therefore be made with caution.

The total area surveyed across all NLI sites in the Northern Territory was 116,172m². This area spanned a total of 76 sites.

Sites

All sites incorporated within the survey were categorised according to 8 different site types. Uniform guidelines were conformed to during site selection. Site specifications vary from 500 square metres (beaches) to 3,000 square metres (highways).

Residential

A street area approximately 150 metres in length, along both sides of the road from the front of the properties on each side of that road extending to the gutter including litter in the gutter.

Beach

An area of approximately 50 metres long and 10 metres wide, positioned on one or across both sides of a jetty, boat ramp or main entry access point to beach.

Industrial

A street area approximately 150 metres long within an industrial area, the count area to be from the fence line or immediate front of the properties to the gutter including litter in the gutter

Car Park

An area of approximately 30 by 50 metres in an open space public car park at a point distant from the entrance to the car park.

Shopping Centre

An area approximately 50 metres long and 25 metres wide, directly outside of the main shopping centre building and including one or across both sides of a major entrance.

Retail Strip/ Shops - Street Precinct

An area approximately 150 metres long in front of a strip of shops, extending from the front of the shops to the street gutter and including litter in the gutter.

Recreational Park

An area of approximately 40 by 50 metres in a park area which includes a playground but which is not in the immediate vicinity of a shop or kiosk. The areas should be within a frequently used park.

Highway

Highways include open major roadways bounded by a vegetated area that may include an open drain.

The count area commences from the area beginning at the edge of the road, and extending out from the road to the nearest fence/ boundary or up to a distance of 10 metres out from the road side if no such fence/ boundary exists. Two such areas should be collected from, one on each side of the road. Each region should extend for a length of approximately 200 metres along the road.

Site Type Representation

The following table outlines the number of sites within each of the 8 distinct site types that were sampled within the Northern Territory.

	All Other States
Beach	8
Car Park	11
Highway	13
Industrial	9
Recreational Park	7
Residential	13
Retail	8
Shopping Centre	7
Total	76

Litter Counter Training

The litter categorisations and assumptions used during the counts of designated sites were broadly as follows:

- A standard data collection form, was used when conducting the litter counts. A copy of this form is provided in the Appendices.
- Counters were trained to carefully analyse the litter to ensure that it was properly identified before recording it on the survey form. For example, to determine whether an item is glass and not clear plastic, or to differentiate between fruit juice and fruit drink as these are recorded on different sections of the form.
- Broken bottles were counted as one bottle, a bag of dumped garbage was considered to be one item of “illegal dumping”, and scattered newspaper pages were counted as one newspaper.
- While individual cigarette butts are counted, where there are large volumes of cigarette butts an estimated count is acceptable.
- For the purpose of the Litter Count, all waste located within any count site is litter apart from that properly disposed of in a waste receptacle.
- Organic matter (including food, chewing gum, and dog faeces) was not recorded during the count.

Reporting

Litter counts have been conducted bi-annually in November and May across the years from 2005/06, unless stated otherwise, the 2018/19 results are reported on an annual basis incorporating average figures corresponding to November 2018 and May 2019 counts.

Category Consolidation

The NLI is a data rich survey and as a result is complex to interpret. To simplify we have consolidated various litter items into broader categories as represented in the following table.

Most of the groupings should be self-evident but it is worth explaining the beverage container category in more detail. In this instance included in the beverage container category are only those items currently classified as eligible containers as part of the SA, NT, NSW, QLD and ACT CDS schemes.

Consolidated Category	Historical Classification
Butts & Packaging	Cigarette Butts Paper/Paperboard - Cigarette packets
Beverage Containers	Glass - Alcoholic sodas / spirit-based mixers, all sizes Glass - Beer, all colours of glass, <750ml Glass - Beer, all colours of glass, 750ml+ Glass - Cider/fruit based etc. Glass - Flav. water/soft drink (carbonated) <1 litre Glass - Flav. water/soft drink (carbonated) 1 litre+ Glass - Flav.wtr/fruit j. dr/sprts dr, (non-carb), <1 litre Glass - Flav.wtr/fruit j. dr/sprts dr, (non-carb), 1 litre+ Glass - Fruit juice, <1 litre Glass - Plain water (carbonated or non-carb.), <1 litre Glass - Plain water (carbonated or non-carb.), 1 litre+ Glass - Wine cooler, all sizes Metal - Alcoholic sodas & spirit-based mixers Metal - Beer, aluminium, all types, all sizes Metal - Cider/fruit based etc. Metal - Flav. water/soft drink, (carbonated), all sizes Metal - Flav. water/soft drink, (non-carb), all sizes Paper/Paperboard - Cartons, flavoured milk <1 litre Paper/Paperboard - Cartons, fruit juice, <1 litre Paper/Paperboard - Flav. water / fruit j. drink/ sports drink, (non-carb), 1 litre+ Paper/Paperboard - Flav. water/fruit j. drink/sports drink, non-carb, <1 litre Plastic - Drink pouches Plastic - Flav. milk, <1 litre Plastic - Flav. water/soft drink (carbonated) <1 litre Plastic - Flav. wtr/fruit j. dr, sprts dr etc.(non-carb) 1 litre+ Plastic - Flav.wtr/fruit j. dr, sprts dr etc.(non-carb) <1 litre Plastic - Fruit juice <1 litre Plastic - Plain water (carbonated or non-carb) <1 litre Plastic - Plain water (carbonated or non-carb) 1 litre+
Take Away	Metal - Foil take away Metal - Metal bottle tops and can pull rings Miscellaneous - Ice cream sticks Paper/Paperboard - Coffee cups Paper/Paperboard - Cups/take away containers Paper/Paperboard - Ice cream wrappers Plastic - Lollipop sticks Plastic - Plastic bottle tops Plastic - Snack bags & confectionary wrappers Plastic - Spoons/ cutlery Plastic - Straws Plastic - Take away & cups
Other Glass	Glass - Other glass
Other Paper	Paper/Paperboard - Other paper
Other Plastic	Plastic - Other plastic
Plastic Bags	Plastic - Bags - heavier glossy typically branded carry bags Plastic - Bags - supermarket type light weight carry bags
General Other	Glass - Fruit juice, 1 litre+ Glass - Wine & spirit, all sizes Metal - Aerosols - pressure packs Metal - Food cans (including pet food) Metal - Industrial cans - all types Metal - Metal pieces Metal - Other foil Miscellaneous - Clothing & materials Miscellaneous - Condoms Miscellaneous - Construction materials Miscellaneous - Disposable nappies Miscellaneous - Other miscellaneous Miscellaneous - Rubber pieces (not tyres) Miscellaneous - Syringes Miscellaneous - Tyres & pieces Paper/Paperboard - Cartons, flavoured milk 1 litre+ Paper/Paperboard - Cartons, fruit juice, 1 litre+ Paper/Paperboard - Cartons, milk, plain (white) all sizes Paper/Paperboard - Junk mail / free circulars Paper/Paperboard - Newspapers & magazines Paper/Paperboard - Packages & boxes Paper/Paperboard - Paper bags Paper/Paperboard - Shopper docketts & related shopping paper (eg, lists) Paper/Paperboard - Tickets, e.g. bus, ATM, vending machine etc. Plastic - 6 ring can holders Plastic - Bread bag tags Plastic - Containers, domestic type Plastic - Containers, industrial e.g. oil Plastic - Flav. milk, 1 litre+ Plastic - Flav. water/soft drink (carbonated) 1 litre+ Plastic - Fruit juice, 1 litre+ Plastic - Packing tape & straps Plastic - Sacks - sheeting - other bags Plastic - Styrene foam boxes, sheets, etc Plastic - White milk, all sizes Plastic - Wine cask bladders
Illegal Dumping	Illegal Dumping

Northern Territory

Key Messages and Insights

- There was a marginal increase of 0.7% in litter counted in 2018/19 which was due primarily to increases in beverage containers and other general litter. The number of items counted was offset to some extent by a decrease in the number of cigarette related items counted.
- There was an increase in the number of litter items observed at beaches, highways and residential sites in 2018/19, while there was decrease in the number of litter items observed at car parks, industrial precincts, recreational parks, retail strips and shopping centres.
- There was 22.5% increase in litter volume (excludes illegal dumping) in NT compared to 2018/19 litter monitor. The overall increase was mainly attributed to increases in beverage containers and takeaway food and beverage packaging litter
- The increase in litter volume was more evident at beaches, car parks and highways.
- Retail and beaches had the highest litter loads by the number of litter items, while beaches had the highest litter loads by volume

Survey Specifics

The national litter index surveys 76 sites across the Northern Territory, with an area surveyed of 116,172 square metres with primary focus on suburban areas around Darwin and Alice Springs. The breakdown is shown in the table below.

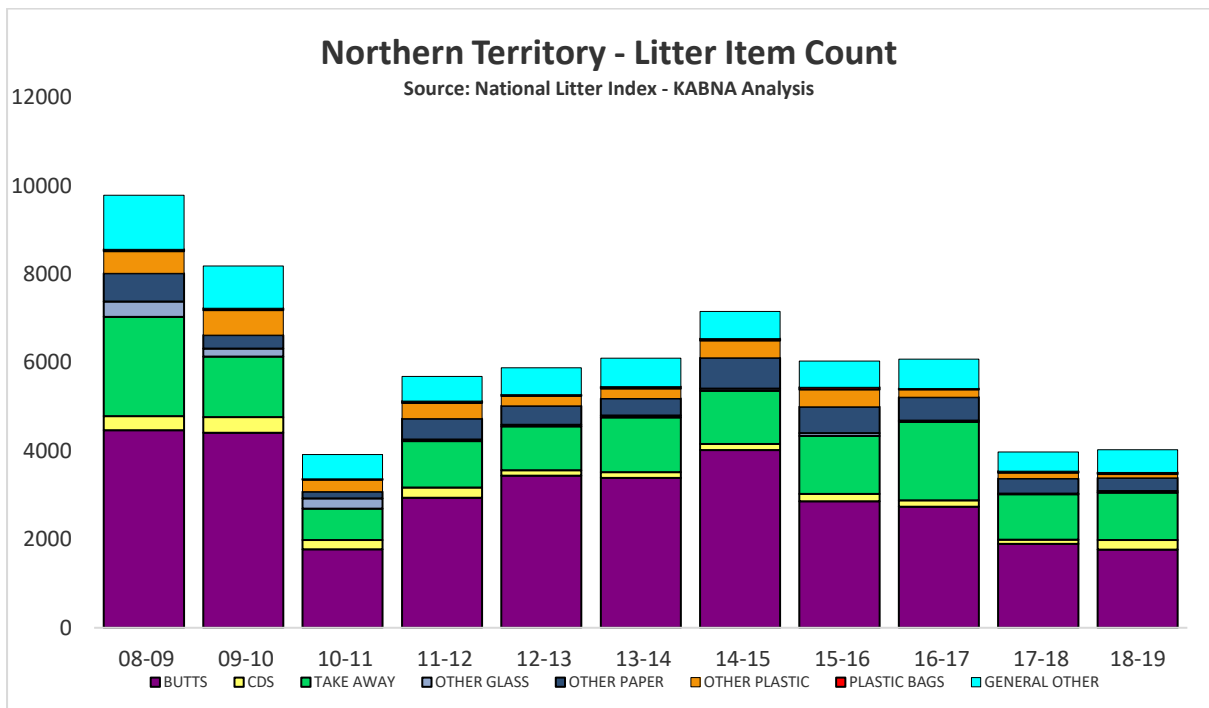
NORTHERN TERRITORY				
Site Types	Number Surveyed			Area Surveyed (sq m)
	Suburban	Regional	Total	
Beaches	5	3	8	4,000
Car Parks	9	2	11	14,680
Major Roads/Highways	8	5	13	43,660
Industrial Precincts	7	2	9	10,800
Recreational Parks	4	3	7	10,550
Residential Streets	11	2	13	18,141
Retail Precincts	5	3	8	5,791
Shopping Centres	6	1	7	8,550
TOTAL	55	21	76	116,172

Litter Counts

As represented in the following table, the 2018/19 litter monitor counted 0.7% more litter items than counted in 2017/18. The overall increase was mostly driven by increases of 111.2% in the number of beverage containers, 18.3% in general other litter and 3.6% in takeaway food and beverage packaging. The increase was offset to some degree by decreases of 34.3% in other plastic, 14.4% in other paper and 7.0% in cigarette related litter.

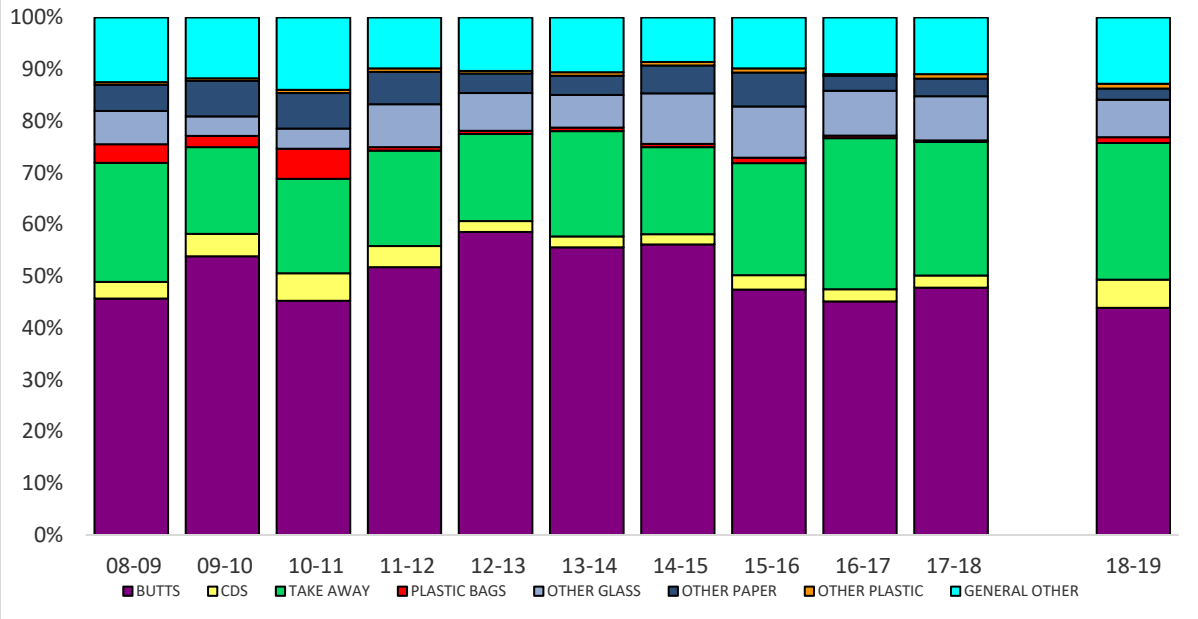
NT		Items								
		Beach	Car Park	Highway	Industrial	Recreational Park	Residential	Retail	Shopping Centre	Total
NT 2018/19	Butts & Packaging	125	447	264	206	12	176	311	228	1768
	Beverage Containers	14	14	121	15	2	21	7	6	198
	Takeaway Food & Beverage	82	148	304	118	32	163	121	98	1066
	Other Glass	5	5	15	6		6	2	4	43
	Other Paper	23	42	63	52	15	43	26	29	292
	Other Plastic	3	14	32	11	3	11	14	4	89
	General Other	41	71	157	75	15	75	40	46	516
	Plastic Bags	7	5	10	7	1	4	3	1	37
	Illegal Dumping		1							1
	GRAND TOTAL	298	745	965	488	79	498	521	414	4007
NT 2017/18	Butts & Packaging	84	472	313	221	86	148	279	300	1901
	Beverage Containers	2	7	50	8	5	11	1	11	94
	Takeaway Food & Beverage	82	188	212	118	51	135	120	125	1028
	Other Glass			9	1		1			11
	Other Paper	20	36	73	55	14	41	76	28	341
	Other Plastic	6	16	31	21	5	25	22	11	136
	General Other	15	61	96	78	12	77	39	60	436
	Plastic Bags	1	5	12	4		8	2	4	34
	Illegal Dumping			1		1	1			2
	GRAND TOTAL	209	783	795	504	173	445	537	538	3981
% REDUCTION	Butts & Packaging	-49.7%	5.2%	15.5%	6.8%	86.0%	-18.6%	-11.7%	24.2%	7.0%
	Beverage Containers	-600.0%	-92.9%	-142.0%	-81.3%	66.7%	-95.2%	-550.0%	42.9%	-111.2%
	Takeaway Food & Beverage	-0.6%	21.1%	-43.7%	-0.4%	36.6%	-20.7%	-0.4%	21.3%	-3.6%
	Other Glass			-61.1%	-450.0%		-500.0%			-290.9%
	Other Paper	-15.4%	-16.9%	13.7%	4.6%	-7.1%	-4.9%	66.2%	-5.5%	14.4%
	Other Plastic	58.3%	15.6%	-3.3%	50.0%	33.3%	55.1%	38.6%	68.2%	34.3%
	General Other	-170.0%	-17.4%	-63.5%	3.2%	-20.8%	2.6%	-3.9%	24.2%	-18.3%
	Plastic Bags	-550.0%	-11.1%	16.7%	-100.0%		46.7%	-66.7%	75.0%	-7.4%
	Illegal Dumping			100.0%		100.0%	100.0%			75.0%
	Grand Total (excluding illegal dumping)	-42.9%	4.9%	-21.5%	3.1%	54.2%	-12.0%	3.0%	23.0%	-0.7%
GRAND TOTAL	-42.9%	4.8%	-21.4%	3.1%	54.5%	-11.9%	3.0%	23.0%	-0.7%	

The following chart demonstrates the downward trend of litter items in NT from 2014/15, with the most notable decline over that time amongst cigarette related litter. The most notable change this year has been an increase in the number of beverage containers.



Northern Territory - % Litter Items

Source: National Litter Index - KABNA Analysis



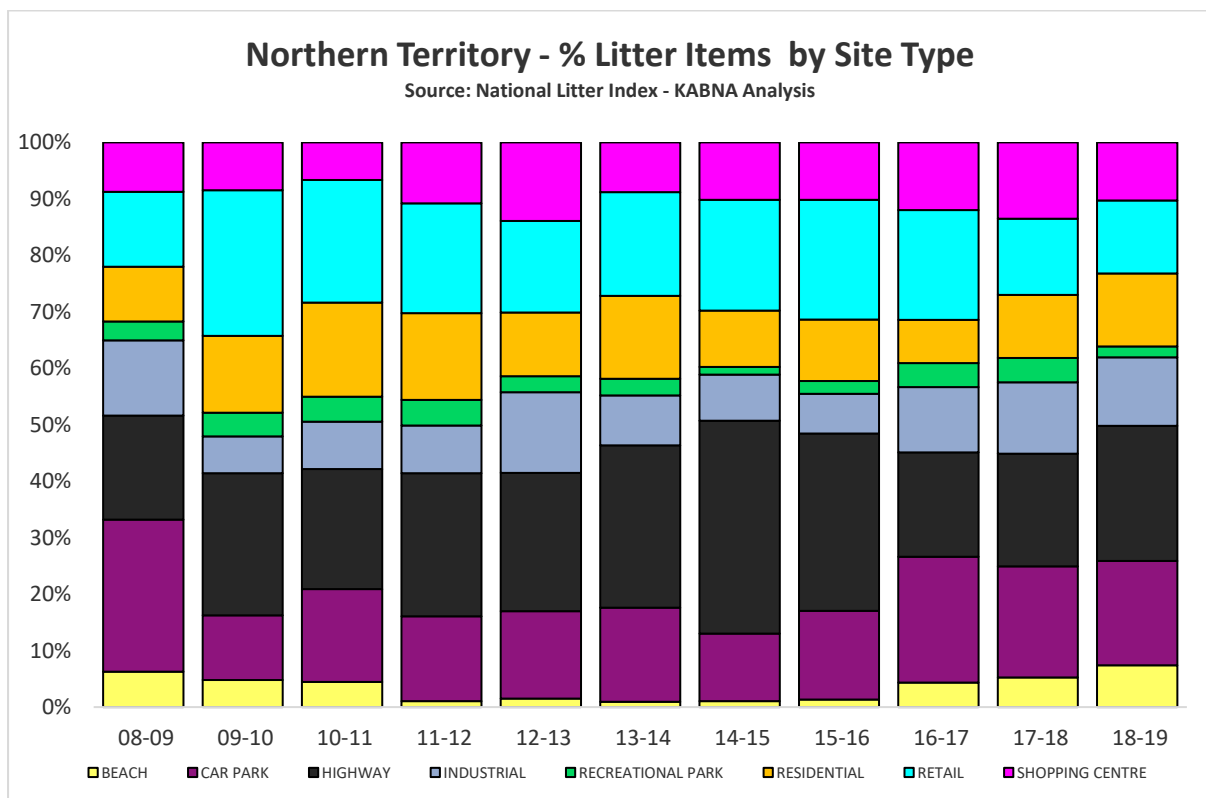
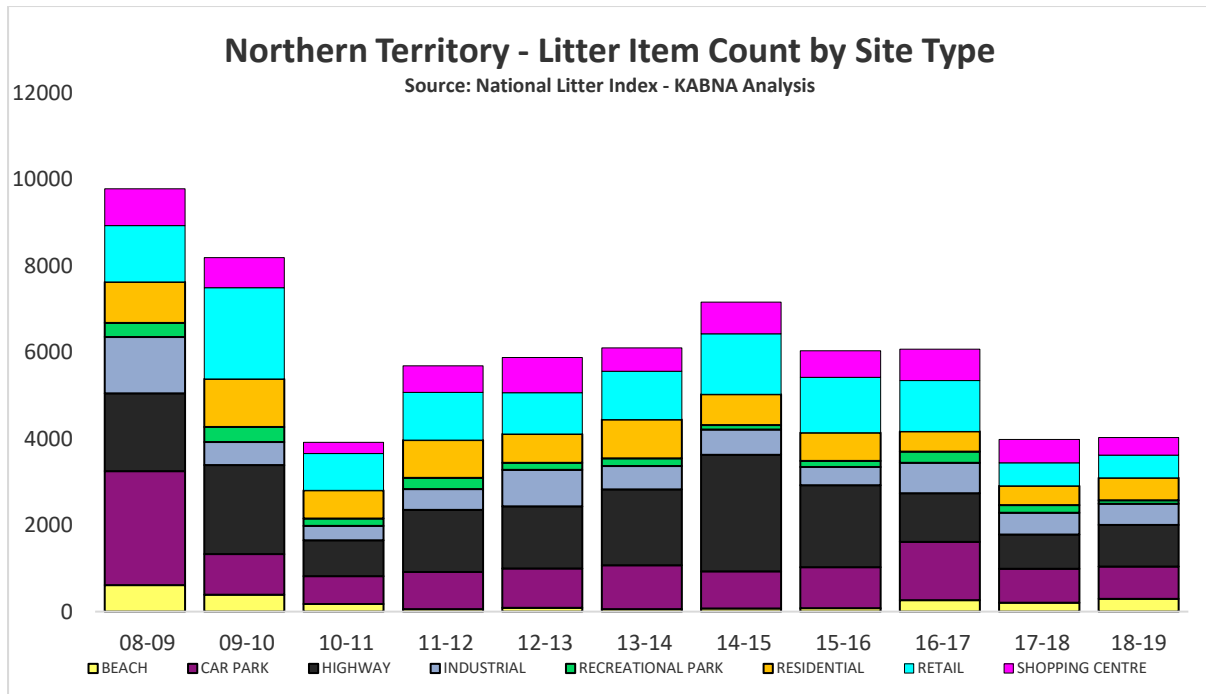
Volumetric Impacts

There was 22.5% increase in litter volume (excludes illegal dumping) in NT compared to 2017/18 litter monitor. The overall increase was mainly attributed to increases of 92.4% in beverage containers and 27.4% in takeaway food and beverage packaging litter in the litter stream. The increase in litter volume was more evident at beaches, car parks and highways.

		Volume - Litres								
NT		Beach	Car Park	Highway	Industrial	Recreational Park	Residential	Retail	Shopping Centre	Total
NT 2018/19	Butts & Packaging	0.559	0.705	1.990	0.677	0.110	1.000	0.580	0.571	6.192
	Beverage Containers	8.845	7.243	68.891	6.590	0.913	9.769	3.069	2.647	107.967
	Takeaway Food & Beverage	7.856	8.137	34.641	11.521	1.730	13.653	9.027	7.633	94.198
	Other Glass	0.098	0.098	0.285	0.108	0.039	0.118	0.029	0.069	0.845
	Other Paper	0.076	0.140	0.213	0.176	0.051	0.145	0.086	0.098	0.985
	Other Plastic	0.003	0.017	0.039	0.013	0.004	0.014	0.017	0.004	0.111
	General Other	11.585	10.415	53.968	22.589	0.320	47.301	12.137	3.962	162.278
	Plastic Bags	0.355	0.277	0.554	0.318	0.017	0.189	0.139	0.061	1.910
	Illegal Dumping			12.000						12.000
	GRAND TOTAL		29.377	39.031	160.582	41.992	3.184	72.189	25.085	15.044
NT 2017/18	Butts & Packaging	0.007	0.599	1.451	0.570	0.119	0.779	0.462	0.470	4.456
	Beverage Containers	0.791	3.449	30.908	4.850	1.878	7.535	0.533	6.167	56.111
	Takeaway Food & Beverage	4.497	9.559	19.954	13.427	2.675	7.860	5.567	10.415	73.954
	Other Glass			0.177	0.020		0.020			0.216
	Other Paper	0.066	0.120	0.247	0.184	0.047	0.139	0.255	0.093	1.151
	Other Plastic	0.008	0.020	0.038	0.026	0.006	0.031	0.029	0.014	0.171
	General Other	6.041	11.030	43.170	40.004	1.542	41.892	14.042	10.462	168.182
	Plastic Bags	0.061	0.153	0.568	0.199		0.389	0.051	0.163	1.583
	Illegal Dumping			12.000		24.000	12.000			48.000
	GRAND TOTAL		11.469	24.930	108.513	59.280	30.267	70.643	20.940	27.783
% REDUCTION	Butts & Packaging	-8205.6%	-17.7%	-37.1%	-18.8%	7.2%	-28.4%	-25.6%	-21.4%	-38.9%
	Beverage Containers	-1018.7%	-110.0%	-122.9%	-35.9%	51.4%	-29.6%	-475.4%	57.1%	-92.4%
	Takeaway Food & Beverage	-74.7%	14.9%	-73.6%	14.2%	35.3%	-73.7%	-62.1%	26.7%	-27.4%
	Other Glass			-61.1%	-450.0%		-500.0%			-290.9%
	Other Paper	-15.4%	-16.9%	13.7%	4.6%	-7.1%	-4.9%	66.2%	-5.5%	14.4%
	Other Plastic	58.3%	15.6%	-3.3%	50.0%	33.3%	55.1%	41.3%	68.2%	34.8%
	General Other	-91.8%	5.6%	-25.0%	43.5%	79.2%	-12.9%	13.6%	62.1%	3.5%
	Plastic Bags	-483.8%	-81.4%	2.5%	-59.6%		51.3%	-172.1%		-20.6%
	Illegal Dumping			100.0%		100.0%	100.0%			75.0%
	Grand Total (excluding illegal dumping)	-156.1%	-8.4%	-66.4%	29.2%	49.2%	-23.1%	-19.8%	-19.8%	45.9%
GRAND TOTAL	-156.1%	-56.6%	-48.0%	29.2%	89.5%	-2.2%	-19.8%	45.9%	-9.2%	

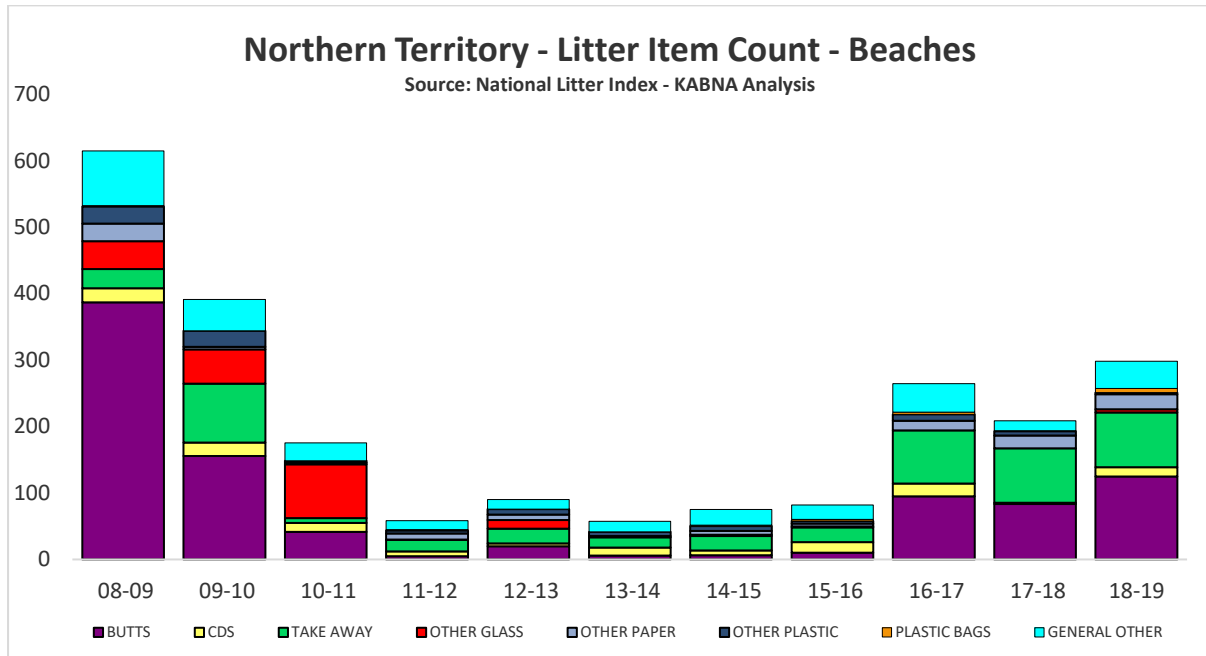
Littering Location

The breakdown of the location of the litter in the 2018/19 litter monitor is demonstrated in the following chart. Compared to the 2017/18 survey there was more litter items observed at beaches, highways and residential sites, while there was decrease in the number of litter items observed at car parks, industrial precincts, recreational parks, retail strips and shopping centres.



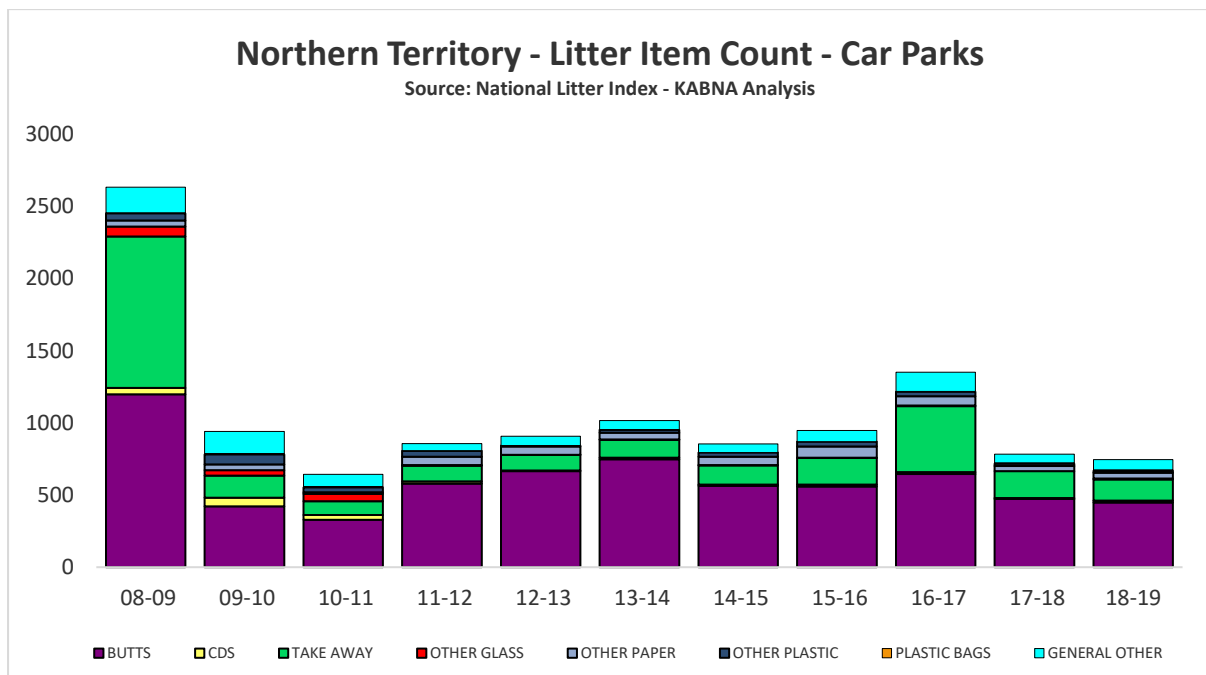
Beaches and Recreational Swimming Locations

Litter levels on the NT beaches rose by 42.9% from 2017/18, with the overall increase mainly attributed to increases of 600.0% in beverage containers, 170% in general other litter and 49.7% in cigarette related litter.



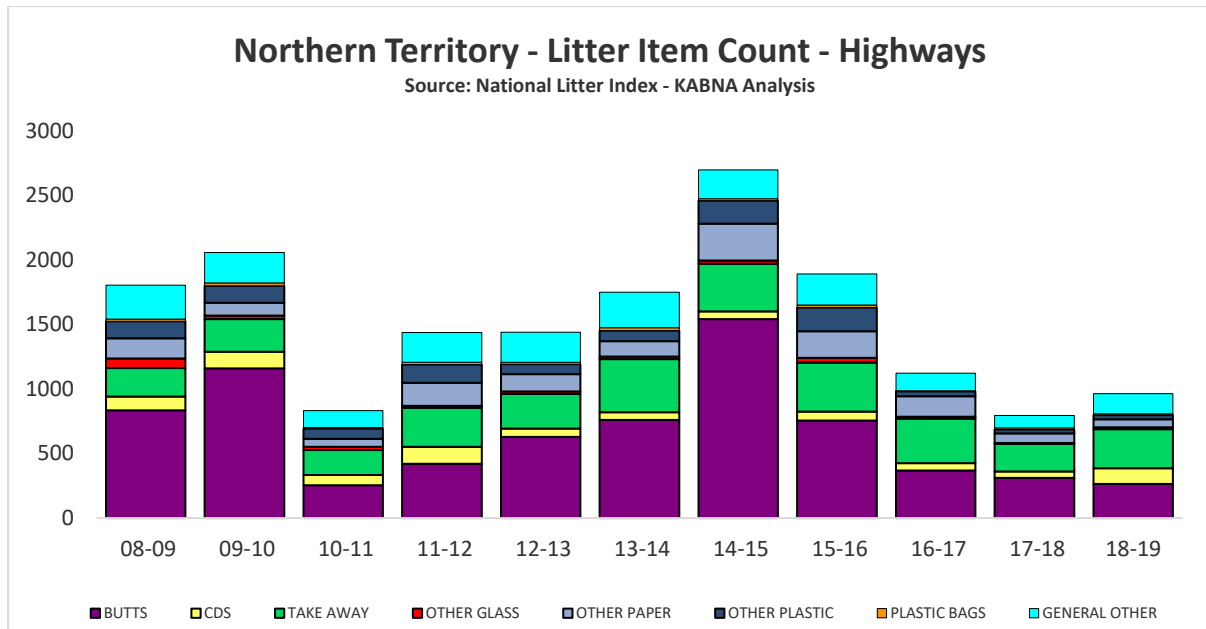
Car Parks

Litter in NT car parks fell by 4.8% in 2018/19, with the lower levels of litter mainly attributed to decreases of 5.2% in cigarette related litter and 21.1% in takeaway packaging litter.



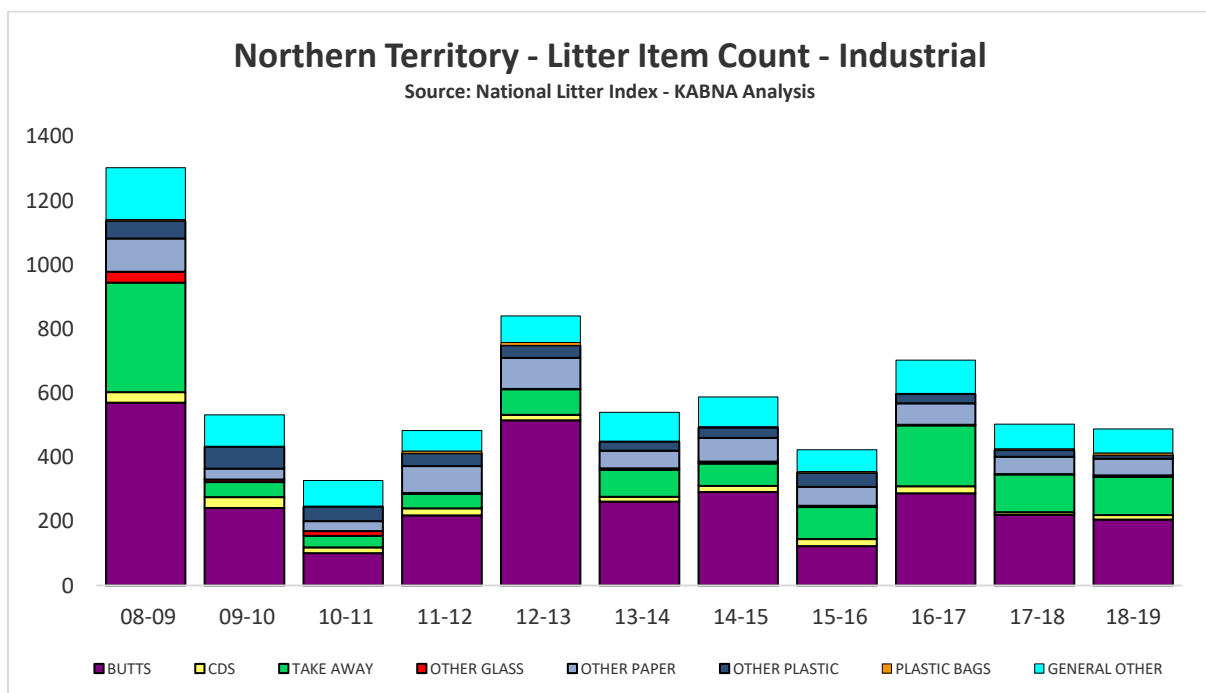
Major Roads/Highways

The 2018/19 litter monitor recorded 21.4% more litter on major roads/highways, compared to 2017/18, with the largest contributions attributed to increases of 142.0% in beverage containers, 63.5% in general other litter and 43.7% in takeaway packaging. The overall increase was offset to some degree by a 15.5% decrease in cigarette related litter.



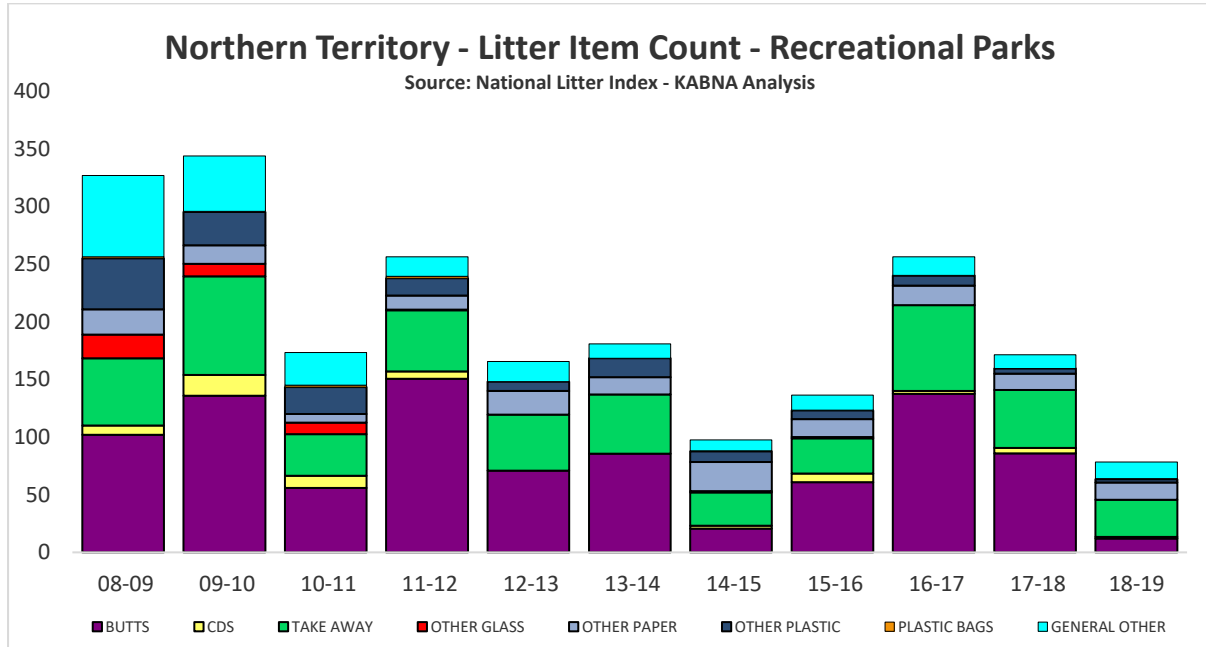
Industrial Precincts

There was a 3.1% decline in litter items recorded at NT industrial precincts in 2018/19. The decrease in litter was mainly attributed to decreases of 50.0% in other plastic items and 6.8% in cigarette related litter.



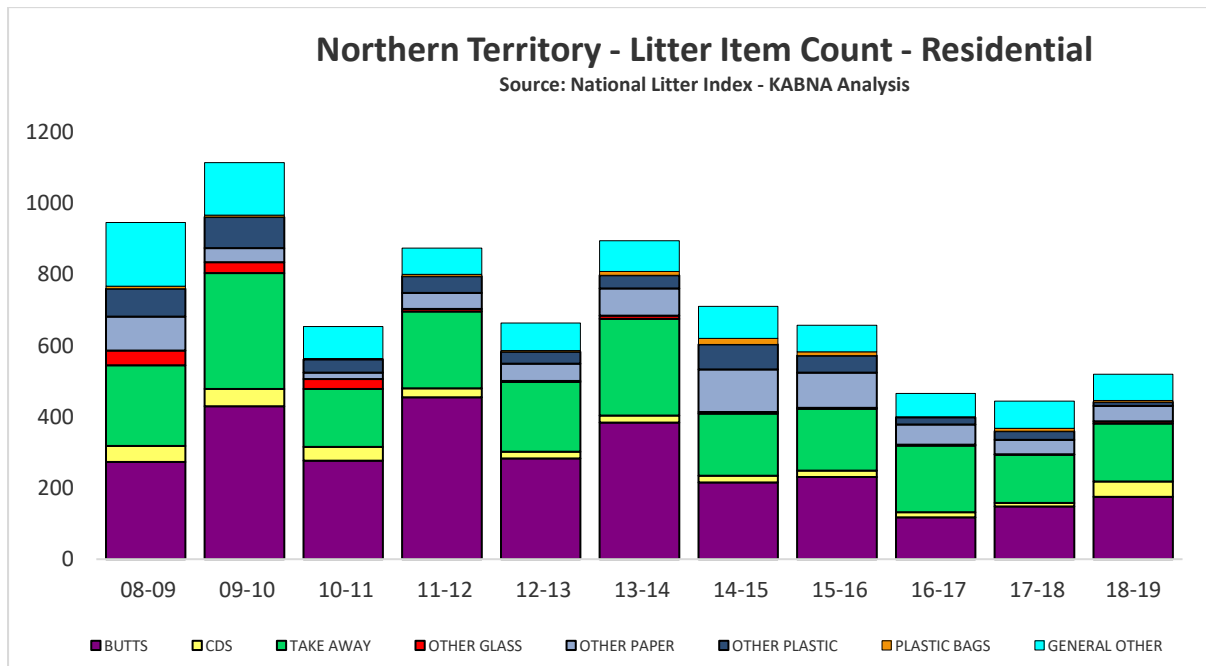
Recreational Parks

There was also a 54.5% drop in litter items recorded at NT recreational parks in 2018/19, with the fall mainly attributed to decreases of 86.0% in cigarette related litter and a 36.6% decrease in takeaway packaging food and beverage litter.



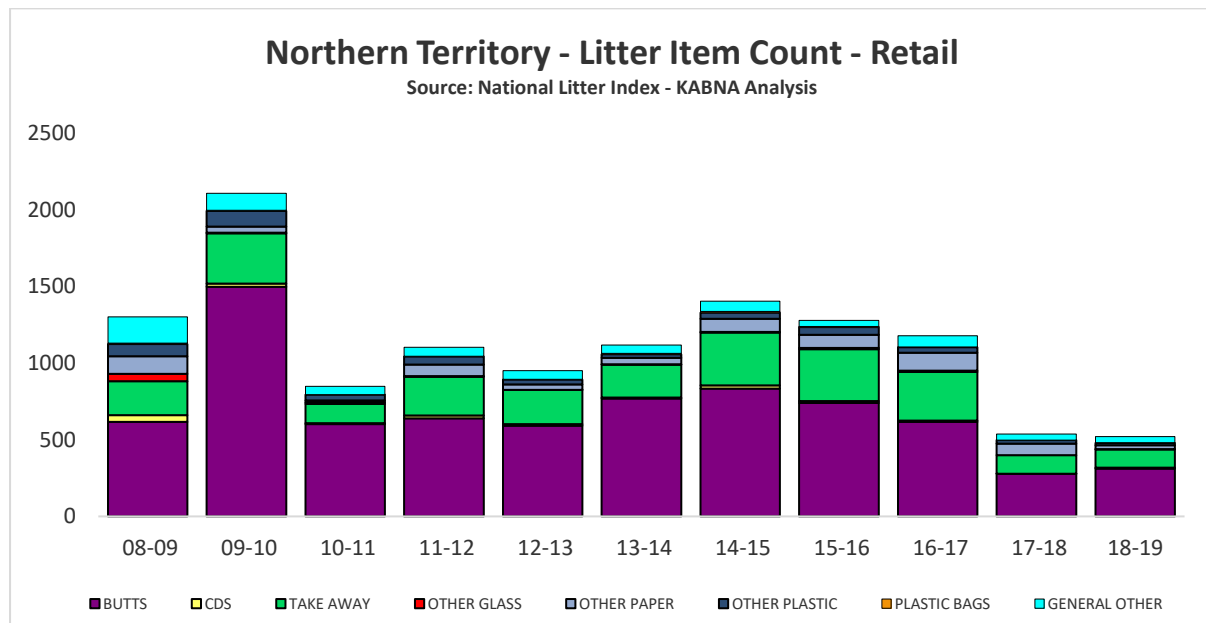
Residential Streets

Litter in residential streets experienced a 11.9% increase in 2018/19. The rise was mainly attributed to increases of 95.2% in beverage containers, 20.7% in takeaway packaging and 18.6% in cigarette related litter. The overall increase was offset to some extent by a 55.1% decrease in other plastic litter.



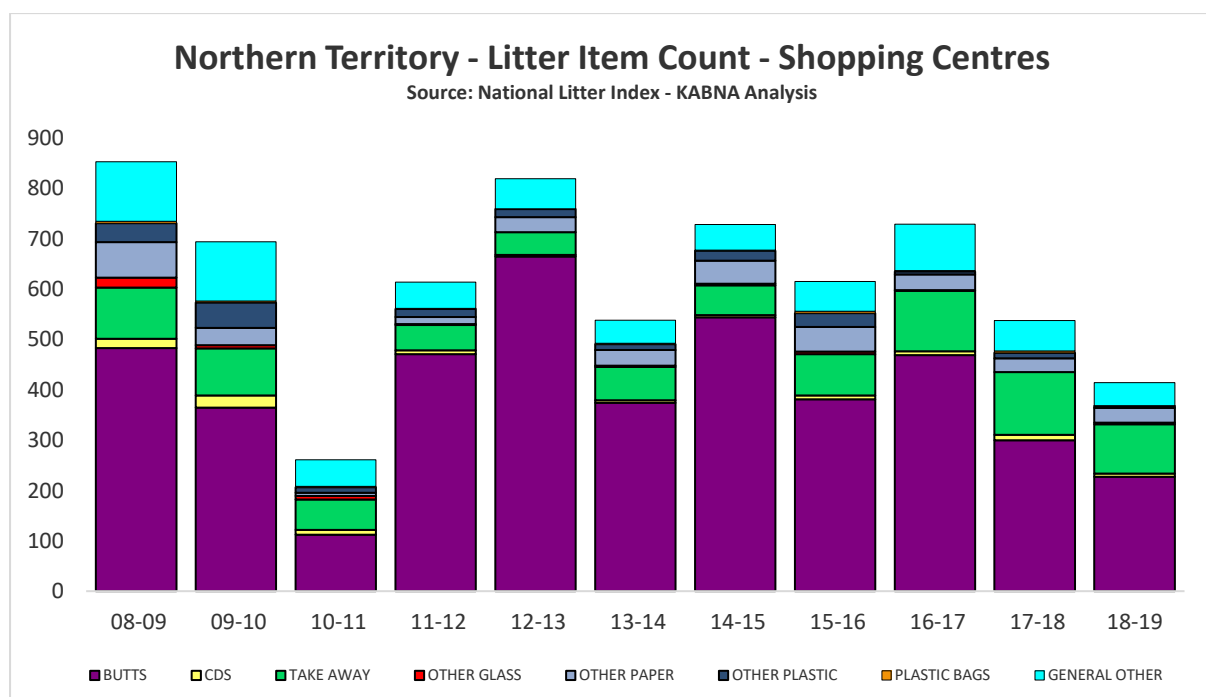
Retail Precincts

There was a drop of 3.0% in litter levels at retail precincts in 2018/19 with lower litter mainly attributed to decreases of 66.2% in other paper litter and 38.6% in other plastic litter. The overall decrease was offset to some degree by and an increase of 11.7% in cigarette butts.



Shopping Centres

Litter counts at Northern Territory shopping centres continued to fall after a drop in the previous year, with a 23.0% decrease in 2018/19. The lower levels of litter were attributed to decrease of 24.2% in cigarette related litter, 24.2% in general other litter and 21.3% in takeaway food and beverage packaging litter.



Normalisation for Area Surveyed

The data below has been normalised to the number of items per 1,000m² and litres per 1,000m² to be able to compare the amounts and volumes of litter by different site types.

The method to normalise the data uses the following calculation:

$$\text{Items or litres per 1,000m}^2 = \frac{\text{the number of items counted}}{\text{divided by the area of sites}} \times \text{multiplied by 1,000}$$

Litter items per 1,000m²

As demonstrated in the tables below, when the area surveyed is taken in to account, there was on average of 34 litter items per 1000m² across NT sites in 2018/19, unchanged from 34 litter items per 1000m² in the 2017/18 monitor. Retail precincts and beaches had higher litter loads compared to other site types.

NT		Items								
		Beach	Car Park	Highway	Industrial	Recreational Park	Residential	Retail	Shopping Centre	Total
NT 2018/19	Areas Surveyed	4000	14680	43660	10800	10550	18141	5791	8550	116172
	Items counted (excl illegal dumping)	298	745	965	488	79	498	521	414	4007
	Per 1,000 sq m	75	51	22	45	7	27	90	48	34
NT 2017/18	Areas Surveyed	4000	14680	43660	10800	10550	18141	5791	8550	116172
	Items counted excl illegal dumping)	209	783	795	504	172	444	537	538	3979
	Per 1,000 sq m	52	53	18	47	16	24	93	63	34

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

Similarly, when the area surveyed is taken in to account there was on average of 3.32 litres per 1000m² of litter across NT sites in 2018/19, up from 2.63 litres per 1000m² in 2017/18. Retail precincts and beaches also had higher litter loads compared to other site types in volumetric terms.

NT		Volume - Litres								
		Beach	Car Park	Highway	Industrial	Recreational Park	Residential	Retail	Shopping Centre	Total
NT 2018/19	Areas Surveyed	4000	14680	43660	10800	10550	18141	5791	8550	116172
	Volume (excl illegal dumping)	29 377	27 031	160 582	41 992	3 184	72 189	25 085	15 044	374 484
	Per 1,000 sq m	7.34	1.84	3.68	3.89	0.30	3.98	4.33	1.76	3.22
NT 2017/18	Areas Surveyed	4000	14680	43660	10800	10550	18141	5791	8550	116172
	Volume (excl illegal dumping)	11 469	24 930	96 513	59 280	6 267	58 643	20 940	27 783	305 824
	Per 1,000 sq m	2.87	1.70	2.21	5.49	0.59	3.23	3.62	3.25	2.63

Detailed Litter Count Tables – NT

NT - NOV 2018 & MAY 19 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		123	444	255	203	12	171	309	225	1740				
GLASS	Alcoholic sodas / spirit-based mixers, all sizes	1		1	1		1			2	y	2		
	Beer, all colours of glass, <750ml	4	7	41	4	1	31	2		89	y	89		
	Beer, all colours of glass, 750ml+	1		4			1			6	y	6		
	Cider/fruit based etc.			1	1		1	1	1	4	y	4		
	Flav.vtr/fruit j. dr/sprts dr. (non-carb.) <1 litre						1			1	y	1		
	Flav.vtr/fruit j. dr/sprts dr. (non-carb.) 1 litre+										y			
	Flav. water/soft drink (carbonated) <1 litre										y			
	Flav. water/soft drink (carbonated) 1 litre+			1						1	y	1		
	Fruit juice, < 1 litre			1						1	y	1		
	Fruit juice, 1 litre+			1						1	y	1		
	Other glass	5	5	15	6	2	6	2	4	43				
	Plain water (carbonated or non-carb.) <1 litre										y			
	Plain water (carbonated or non-carb.) 1 litre+				2					2	y	2		
	Wine & spirit, all sizes	4		2			2	2		9				
Wine cooler, all sizes			1			1	1		2	y	2			
Total	15	12	68	11	3	43	6	4	160		108			
ILLEGAL DUMPING			1							1				
METAL	Aerosols - pressure packs			1			2		1	3				
	Alcoholic sodas & spirit-based mixers						9			9	y	9		
	Beer, aluminium, all types, all sizes	2		15			1	1		18	y	18		
	Cider/fruit based etc.			1						1	y	1		
	Flav. water/soft drink, (carbonated), all sizes	2	3	19	6		5	2	4	39	y	39		
	Flav. water/soft drink, (non-carb), all sizes		1	1	1		1			3	y	3		
	Foil take away	6	6	10	9	1	8	6	3	47			y	47
	Food cans (including pet food)			3	3		2	2		10				
	Industrial cans - all types													
	Metal bottle tops and can pull rings	22	47	70	35	7	45	41	25	289			y	289
	Metal pieces	2	1	10	2		2	1	2	19				
Other foil	1	3	14	3	2	4	3	1	29					
Total	33	59	150	58	10	67	54	35	465		69		336	
MISCELLANEOUS	Clothing & materials	6	8	11	4	2	4	3	2	38				
	Condoms		1	1	1					2				
	Construction materials			4	3		2			8				
	Disposable nappies	2	1	1			1	2		5				
	Ice cream sticks	2	3	9	1	2	3	6	4	28			y	28
	Other miscellaneous		3	12	1	1	2	2	3	22				
	Rubber pieces (not tyres)	1	1	7		2	2	1	1	12				
	Syringes		1	1	1	1	1		1	3				
	Tyres & pieces			9	1		1			11				
Total	9	16	52	11	6	13	12	9	127				28	
PAPER/PAPERBOARD	Cartons, flavoured milk < 1 litre		1	6			1	1	1	9	y	9		
	Cartons, flavoured milk 1 litre+													
	Cartons, fruit juice, < 1 litre			1	1	1	1			2	y	2		
	Cartons, fruit juice, 1 litre+			1			1	1		2				
	Cartons, milk, plain (white) all sizes			1	1					1				
	Cigarette packets	3	3	9	3	1	5	3	3	28				
	Cups/take away containers	3	2	30	5		6	3	5	52			y	52
	Coffee cups	3	5	7	5	2	7	6	4	38			y	38
	Flav. water/fruit j. drink/sports drink, non-carb. <1 litre			1						1	y	1		
	Flav. water / fruit j. drink/ sports drink, (non-carb.) 1 litre+										y			
	Ice cream wrappers	1	1	8			2	2	2	15			y	15
	Junk mail / free circulars	2	7	13	9	1	12	8	6	56				
	Newspapers & magazines	3	5	7	4		5	4	2	28				
	Other paper	23	42	63	52	15	43	26	29	292				
Packages & boxes	5	8	14	9	2	5	1	2	45					
Paper bags	3	6	14	7		9	4	4	45					
Shopper dockets & related shopping paper (eg. lists)	1	14	5	4	1	7	4	19	52					
Tickets, e.g. bus, ATM, vending machine etc.		6	4	2		4		2	16					
Total	43	97	179	100	22	104	59	76	679		12		105	
PLASTIC	6 ring can holders	6	3	3	3		3	2	2	19				
	Bags - heavier glossy typically branded carry bags	3	2	4	2		1	1	1	13				
	Bags - supermarket type light weight carry bags	4	3	6	6	1	3	2	1	24				
	Bread bag tags	1	4	1	1	1	3	1		11				
	Containers, domestic type			1			1			2				
	Containers, industrial e.g. oil			1	1		1			3				
	Drink pouches			1			1		1	2	y	2		
	Flav. milk, <1 litre			2						2	y	2		
	Flav. milk, 1 litre+													
	Flav.vtr/fruit j. dr. sprts dr etc. (non-carb) <1 litre			1			1		1	2	y	2		
	Flav. vtr/fruit j. dr. sprts dr etc. (non-carb) 1 litre+	1		1						2	y	2		
	Flav. water/soft drink (carbonated) <1 litre	2		8	1					11	y	11		
	Flav. water/soft drink (carbonated) 1 litre+		1	4						4	y	4		
	Fruit juice <1 litre		1	2						3	y	3		
	Fruit juice, 1 litre+		1	2			1			3				
	Lollipop sticks		1	2			5	3		10			y	10
	Other plastic	3	14	32	11	3	11	14	4	89				
	Packing tape & straps	1	1	3	9		1	1		15				
	Plain water (carbonated or non-carb) <1 litre	2		3	1					5	y	5		
	Plain water (carbonated or non-carb) 1 litre+	1	1	3						4	y	4		
	Plastic bottle tops	15	29	69	27	8	35	19	22	223			y	223
	Sacks - sheeting - other bags	1		12	3	1	2	2		19				
	Snack bags & confectionary wrappers	5	18	47	4	9	24	15	12	132			y	132
	Spoons/ cutlery	8	10	10	7	2	8	5	6	53			y	53
	Straws	13	21	27	23	2	15	13	16	128			y	128
	Styrene foam boxes, sheets, etc	3		2	6	1	2		1	13				
	Take away & cups	8	8	17	4	1	10	4	3	53			y	53
White milk, all sizes														
Wine cask bladders	6	3	6	2		2	3	1	21					
Total	77	117	262	107	28	123	82	66	859		32		598	
GRAND TOTAL	298	745	965	488	79	520	521	414	4030		220		1066	

Detailed Litter Volume Tables – NT

NT - NOV 2018 & MAY 19 AVERAGE		Volume - Litres									Beverage Containers		Takeaway Food		
		Beach	Car Park	Highway	Industrial	Recreational Park	Residential	Retail	Shopping Centre	Total	Beverage containers	Items	Takeaway Food	Items	
CIGARETTE BUTTS		0.014088	0.051060	0.029325	0.023288	0.001323	0.019665	0.035478	0.025875	0.200100					
GLASS	Alcoholic sodas / spirit-based mixers, all sizes	0.187150		0.187150	0.187150		0.187150			0.748600	y	0.749			
	Beer, all colours of glass, <750ml	1.851697	3.240469	18.979890	1.851697	0.231462	14.350649	0.694386		41.200249	y	41.200			
	Beer, all colours of glass, 750ml+	0.907292		3.629168			0.907292			5.443752	y	5.444			
	Cider/fruit based etc.			0.228927	0.457853		0.457853	0.228927	0.228927	1.602486	y	1.602			
	Flav wtr/fruit j. dr/sprts dr. (non-carb), <1 litre						0.554287			0.554287	y	0.554			
	Flav wtr/fruit j. dr/sprts dr. (non-carb), 1 litre+										y				
	Flav. water/soft drink (carbonated) <1 litre										y				
	Flav. water/soft drink (carbonated) 1 litre+			1.277246						1.277246	y	1.277			
	Fruit juice, < 1 litre			0.424115						0.424115	y	0.424			
	Fruit juice, 1 litre+			0.555244						0.555244					
	Other glass	0.098200	0.098200	0.284780	0.108020	0.039280	0.117840	0.029460	0.068740	0.844620					
	Plain water (carbonated or non-carb.), <1 litre										y				
	Plain water (carbonated or non-carb.), 1 litre+			2.118500						2.118500	y	2.119			
	Wine & spirit, all sizes	3.565600		1.782800			1.337100	1.337100		8.022600					
Wine cooler, all sizes			0.187150			0.187150	0.374300		0.748600	y	0.749				
Total	6.609939	3.338669	29.654969	2.604720	0.270742	18.099321	2.664173	0.297667	63.540198		54.118				
ILLEGAL DUMPING			12.000000						12.000000						
METAL	Aerosols - pressure packs			0.684240			1.026360		0.342120	2.052720					
	Alcoholic sodas & spirit-based mixers			3.666900						3.666900	y	3.667			
	Beer, aluminium, all types, all sizes	0.862800		6.471000			0.215700	0.215700		7.765200	y	7.765			
	Cider/fruit based etc.			0.431400						0.431400	y	0.431			
	Flav. water/soft drink. (carbonated), all sizes	0.638303	1.063838	7.872402	2.340444		1.914909	0.851071	1.702141	16.383108	y	16.383			
	Flav. water/soft drink. (non-carb), all sizes		0.190800	0.190800	0.381600		0.381600			1.144800	y	1.145			
	Foil take away	2.543090	2.543090	4.392610	4.161420	0.462380	3.467850	2.774280	1.387140	21.731860			y	21.732	
	Food cans (including pet food)			1.391400	1.391400		0.927600	0.695700		4.406100					
	Industrial cans - all types														
	Metal bottle tops and can pull rings	0.086000	0.186000	0.280000	0.138000	0.028000	0.178000	0.162000	0.096000	1.156000			y	1.156	
	Metal pieces	0.015900	0.010600	0.100700	0.021200		0.021200	0.010600	0.015900	0.196100					
	Other foil	0.000780	0.004680	0.021060	0.004680	0.003120	0.005460	0.003900	0.001560	0.045240					
	Total	4.146873	3.999008	25.052612	8.436744	0.493500	8.138679	4.713251	3.546861	58.979428		29.391		22.888	
	MISCELLANEOUS	Clothing & materials	0.084150	0.122400	0.160650	0.061200	0.022950	0.053550	0.032520	0.030600	0.573750				
Condoms			0.000160	0.000160	0.000160					0.000480					
Construction materials				1.440000	0.900000		0.540000			2.880000					
Disposable nappies		1.687500	0.562500	0.562500			1.250000	1.687500		5.625000					
Ice cream sticks		0.001380	0.002760	0.007820	0.000920	0.001380	0.002760	0.005060	0.003220	0.025300			y	0.025	
Other miscellaneous			0.040500	0.155250	0.013500	0.006750	0.020250	0.027000	0.033750	0.297000					
Rubber pieces (not tyres)		0.000082	0.000082	0.001069		0.000329	0.000247	0.000082	0.000082	0.001974					
Syringes			0.001130	0.001130	0.001130		0.001130		0.001130	0.005650					
Tyres & pieces			0.025000	0.225000		0.112500				2.362500					
Total		1.773112	0.729532	4.353579	1.201910	0.031409	1.855437	1.757892	0.068782	11.771654		0.025			
PAPER/PAPERBOARD		Cartons, flavoured milk < 1 litre		0.336240	3.698640			0.672480	0.336240	0.672480	5.716080	y	5.716		
		Cartons, flavoured milk 1 litre+													
		Cartons, fruit juice, < 1 litre			0.312375	0.312375	0.312375	0.312375			1.249500	y	1.250		
		Cartons, fruit juice, 1 litre+			1.035000			1.035000	1.035000		3.105000				
	Cartons, milk, plain (white) all sizes			0.506330	0.506330					1.012660					
	Cigarette packets	0.544675	0.653610	1.960830	0.653610	0.108935	0.980415	0.544675	0.544675	5.991425					
	Cups/take away containers	1.822375	1.093425	21.868500	3.644750		4.092225	2.186850	3.280275	37.905400			y	37.905	
	Coffee cups	1.470077	2.205115	3.430179	2.450128	0.980051	3.430179	2.695141	1.960102	18.620974			y	18.621	
	Flav. water/fruit j. drink/sports drink, non-carb, <1 litre		0.302400							0.302400	y	0.302			
	Flav. water / fruit j. drink/ sports drink. (non-carb), 1 litre+										y				
	Ice cream wrappers	0.002400	0.002400	0.018000			0.003600	0.004800	0.003600	0.034800			y	0.035	
	Junk mail / free circulars	0.261000	1.218000	2.175000	1.566000	0.087000	2.088000	1.305000	1.044000	9.744000					
	Newspapers & magazines	2.950000	5.310000	7.670000	4.720000		5.900000	4.720000	1.770000	33.040000					
	Other paper	0.076050	0.140270	0.212940	0.175760	0.050700	0.145340	0.086190	0.098020	0.985270					
Packages & boxes	0.360000	0.600000	1.120000	0.720000	0.160000	0.400000	0.080000	0.160000	3.600000						
Paper bags	0.026450	0.058190	0.148120	0.068770		0.089930	0.037030	0.042320	0.470810						
Shopper dockets & related shopping paper (eg. lists)	0.001015	0.028420	0.009135	0.007105	0.002030	0.013195	0.007105	0.037555	0.105560						
Tickets, e.g. bus, ATM, vending machine etc.		0.004840	0.003520	0.001320		0.003080		0.001320	0.014080						
Total	7.514042	11.952910	44.168569	14.826148	1.701091	19.082819	13.038031	9.614347	121.897959		7.268		56.561		
PLASTIC	6 ring can holders	0.008250	0.003750	0.003750	0.003750		0.003750	0.002250	0.003000	0.028500					
	Bags - heavier glossy typically branded carry bags	0.219000	0.175200	0.350400	0.131400		0.087600	0.087600	0.043800	1.095000					
	Bags - supermarket type light weight carry bags	0.135760	0.101820	0.203640	0.186670	0.016970	0.101820	0.050910	0.016970	0.814560					
	Bread bag tags	0.000115	0.000805	0.000230	0.000230	0.000230	0.000575	0.000230		0.002415					
	Containers, domestic type			4.162000			8.324000			12.486000					
	Containers, industrial e.g. oil			22.458000	11.229000		22.458000			56.145000					
	Drink pouches				0.043125		0.043125		0.043125	0.129375	y	0.129			
	Flav. milk, <1 litre			0.799050						0.799050	y	0.799			
	Flav. milk, 1 litre+														
	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	1.244220	0.311055	4.665825	0.622110					6.843210	y	6.843			
	Flav. water/soft drink (carbonated) 1 litre+			0.827000	5.789000					6.616000	y	6.616			
	Fruit juice <1 litre			0.200023	0.800093					1.000116	y	1.000			
	Fruit juice, 1 litre+		1.068345	3.205035			1.068345			5.341725					
	Lollipop sticks		0.005030	0.001060			0.002385	0.001325	0.004375	0.005300			y	0.005	
	Other plastic	0.003125	0.016875	0.039375	0.013125	0.003750	0.013750	0.016875	0.004375	0.112500					
	Packing tape & straps	0.000270	0.000135	0.000810	0.002430		0.000135	0.000135		0.003915					
	Plain water (carbonated or non-carb) <1 litre	1.181850		1.969750	0.393950					3.545550	y	3.546			
	Plain water (carbonated or non-carb) 1 litre+	0.770785	0.770785	3.853925						5.395495	y	5.395			
	Plastic bottle tops	0.116073	0.232145	0.548343	0.216135	0.064040	0.276173	0.152095	0.176110	1.781113			y	1.781	
	Sacks - sheeting - other bags	0.000158		0.003623	0.000788	0.000315	0.000630	0.000473		0.005985					
	Snack bags & confectionary wrappers	0.035235	0.140940	0.368010	0.027405	0.070470	0.184005	0.117450	0.090045	1.033560			y	1.034	
	Spoons/ cutlery	0.072000	0.091200	0.096000	0.062400	0.014400	0.072000	0.048000	0.052800	0.508800			y	0.509	
	Straws	0.051563	0.086625	0.111375	0.094875	0.006188	0.059813								