

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

<u>Scope</u>

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.

<u>Sites</u>

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).

<u>Residential</u>

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.

<u>Beach</u>

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.

<u>Industrial</u>

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

<u>Car Park</u>

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.

<u>Highway</u>

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.

<u>Reporting</u>

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
Surra de l'actogning	Paper/Paperboard - Cigarette packets
	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
Beverage Containers	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. mink, <1 filte Plastic - Flav. water/soft drink (carbonated) <1 litre
	Plastic - Flav. water/solid units (carbonated) <1 me
	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+
	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
ake Away	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
Ū	Plastic - Bags - supermarket type light weight carry bags
	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 Baper (Baperboard, Cattors, flavoured milk 1 litre)
	Paper/Paperboard - Cartons, flavoured milk 1 litre+ Paper/Paperboard - Cartons, fruit juice, 1 litre+
	Paper/Paperboard - Cartons, fruit juice, 1 litre+ Paper/Paperboard - Cartons, milk, plain (white) all sizes
General Other	Paper/Paperboard - Junk mail / free circulars
	Paper/Paperboard - Newspapers & magazines
	Paper/Paperboard - Packages & boxes
	Paper/Paperboard - Paper bags
	Paper/Paperboard - Shopper dockets & related shopping paper (eg, lists)
	Paper/Paperboard - Shopper dockets & related shopping paper (eg, lists) Paper/Paperboard - Tickets, e.g. bus, ATM, vending machine etc.
	Paper/Paperboard - Shopper dockets & related shopping paper (eg, lists) Paper/Paperboard - Tickets, e.g. bus, ATM, vending machine etc. Plastic - 6 ring can holders
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	Paper/Paperboard - Shopper dockets & 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, industrial e.g. oil Plastic - Flav, milk, 1 litre+
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	Paper/Paperboard - Shopper dockets & related shopping paper (eg, lists) Paper/Paperboard - Tickets, e.g. bus, ATM, vending machine etc. Plastic - 6 ring can holders Plastic - Containers, domestic type Plastic - Containers, domestic type Plastic - Containers, industrial e.g. oil Plastic - Flav, milk, 1 litre+ Plastic - Flav, water/soft drink (carbonated) 1 litre+ Plastic - Flaving & Straps
	Paper/Paperboard - Shopper dockets & 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, industrial e.g. oil Plastic - Containers, industrial e.g. oil Plastic - Flav. milk, 1 litre+ Plastic - Flav. water/soft drink (carbonated) 1 litre+ Plastic - Fuit juice, 1 litre+
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Illegal Dumping	Paper/Paperboard - Shopper dockets & 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, industrial e.g. oil Plastic - Containers, industrial e.g. oil Plastic - Flav. milk, 1 litre+ Plastic - Flav. water/soft drink (carbonated) 1 litre+ Plastic - Fuit Juice, 1 litre+ Plastic - Packing tape & straps Plastic - Styrene foam boxes, sheets, etc

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

NORTHERN TERRITORY												
Site Types	Number Surveyed Area Surveye											
	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								

Survey Specifics

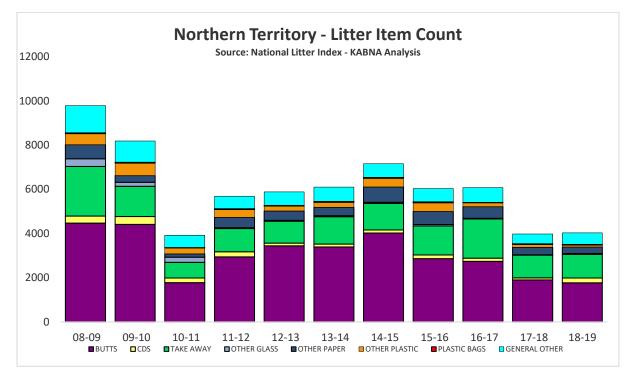
The national litter index surveys 76 sites across the Northern Territory, with an area surveyed of 116,172 square metres with primary focus on suburban areas around Darwin and Alice Springs. The breakdown is shown in the table below.

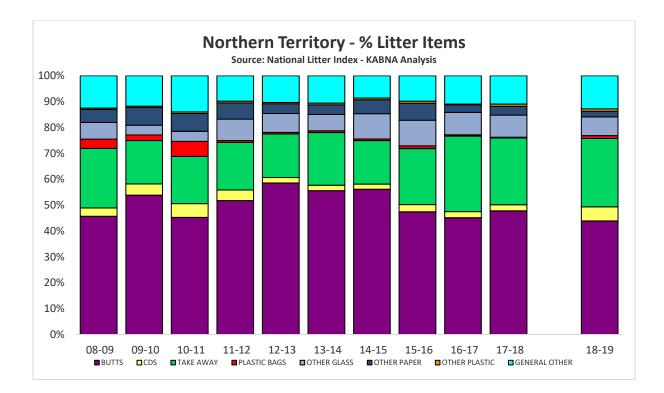
Litter Counts

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.

		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$								
	NT	Beach	Car Park	Highway	Industrial	Recreational Park	Residential	Retail	Shopping Centre	Total
	Butts & Packaging	125	447	264		12	176	311	228	1768
	Beverage Containers									198
	Takeaway Food & Beverage					32	163			1066
	Other Glass	5	5	15			6	2	4	43
NT	Other Paper	23	42	63	52	15	43	26	228 6 98 4 29 4 46 1 1 414 300 11 125 28 11 60 4 538 24.2% 42.9%	292
2018/19	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
	Butts & Packaging	84			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						1			11
NT	Other Paper								28	341
2017/18	Other Plastic		16	31					11 125 28 11 60	136
	General Other	15	61	96	78	12	77	39		436
	Plastic Bags	1	5	12	4		8	2	4	34
	Illegal Dumping						1			2
	GRAND TOTAL	209	783	795	504	173	445	537	538	3981
	Butts & Packaging									7.0%
	Beverage Containers									-111.2%
	Takeaway Food & Beverage	-0.6%	21.1%			36.6%		-0.4%	21.3%	-3.6%
	Other Glass									-290.9%
%	Other Paper	-15.4%	-16.9%	13.7%	4.6%	-7.1%	-4.9%	66.2%		14.4%
REDUCTION	Other Plastic	58.3%	15.6%	-3.3%	50.0%	33.3%	55.1%	38.6%		34.3%
REDUCTION	General Other	-170.0%	-17.4%	-63.5%	3.2%	-20.8%	2.6%	-3.9%		-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.





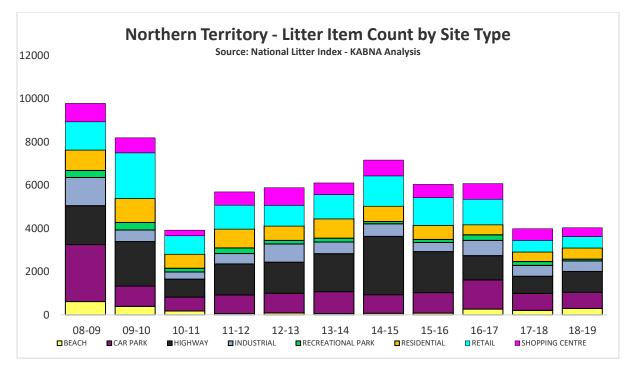
Volumetric Impacts

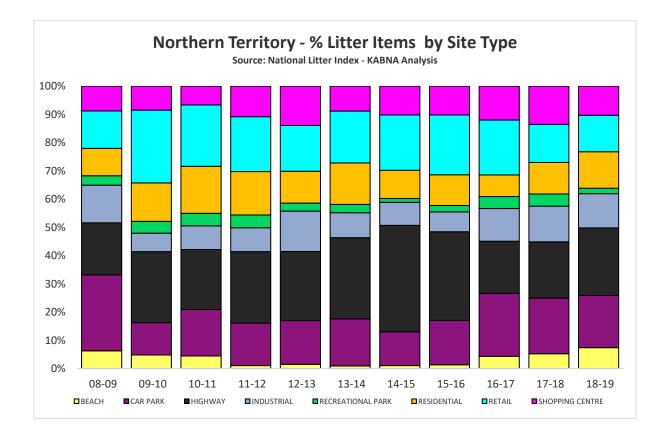
There was 22.5% increase in litter volume (excludes illegal dumping) in NT compared to 2017/18 litter monitor. The overall increase was mainly attributed to increases of 92.4% in beverage containers and 27.4% in takeaway food and beverage packaging litter in the litter stream. The increase in litter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

					۱	/olume - Litre	s			
	NT	Beach	Car Park	Highway	Industrial	Recreational Park	Residential	Retail	Shopping Centre	Total
	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
NT	Other Paper	0.076	0.140	0.213	0.176	0.051	0.145	0.086	0.098	0.985
2018/19	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	386.484
	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
NT	Other Paper	0.066	0.120	0.247	0.184	0.047	0.139	0.255	0.093	1.151
2017/18	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	353.824
		17.908	14.102	52.069	-17.288	-27.082	1.546	4.145	-12.739	32.660
	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%
REDUCTION	Other Plastic	58.3%	15.6%	-3.3%	50.0%	33.3%	55.1%	41.3%	0.014 10.462 0.163 27.783 -12.739 -21.4% 57.1% 26.7% 68.2% 68.2% 62.1%	34.8%
REDUCTION	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%	62.6%	-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%	45.9%	-22.5%
	GRAND TOTAL	-156.1%	-56.6%	-48.0%	29.2%	89.5%	-2.2%	-19.8%	45.9%	-9.2%

Littering Location

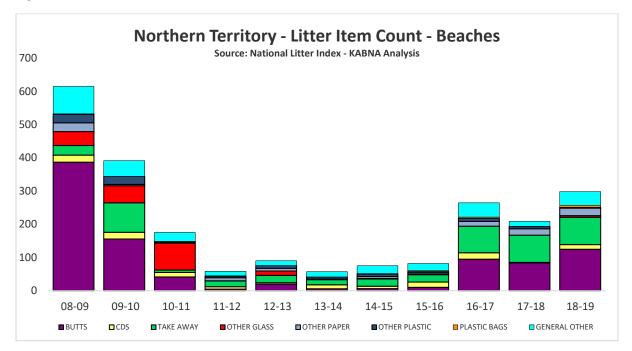
The breakdown of the location of the litter in the 2018/19 litter monitor is demonstrated in the following chart. Compared to the 2017/18 survey there was more litter items observed at beaches, highways and residential sites, while there was decrease in the number of litter items observed at car parks,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





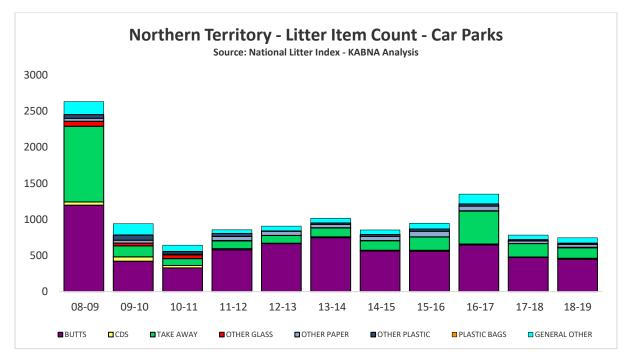
Beaches and Recreational Swimming Locations

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.



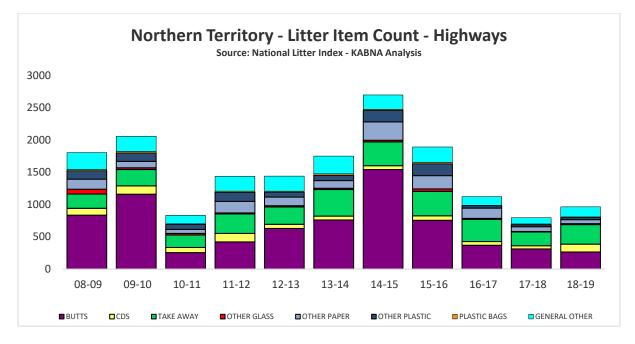
Car Parks

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.



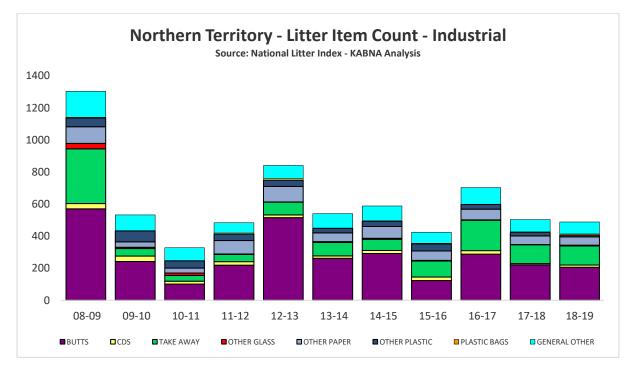
Major Roads/Highways

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.



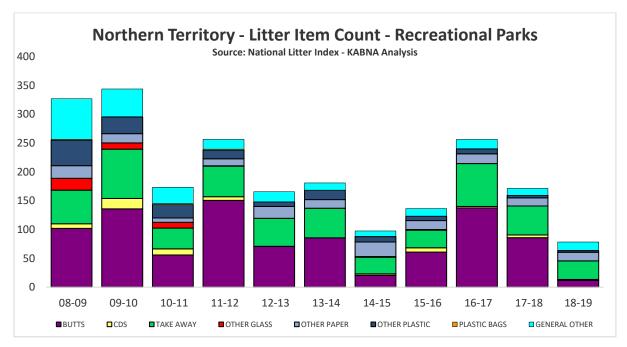
Industrial Precincts

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.



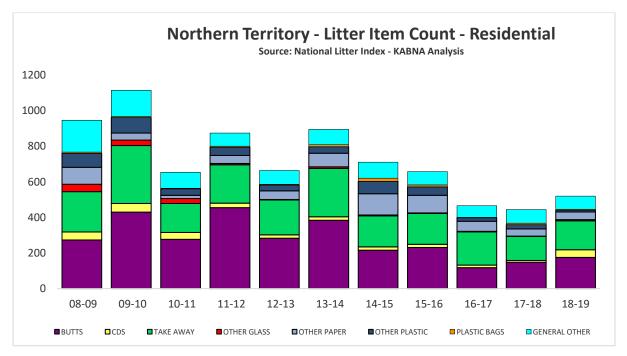
Recreational Parks

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.



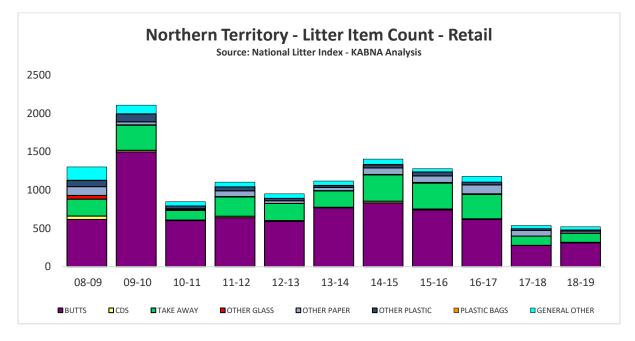
Residential Streets

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.



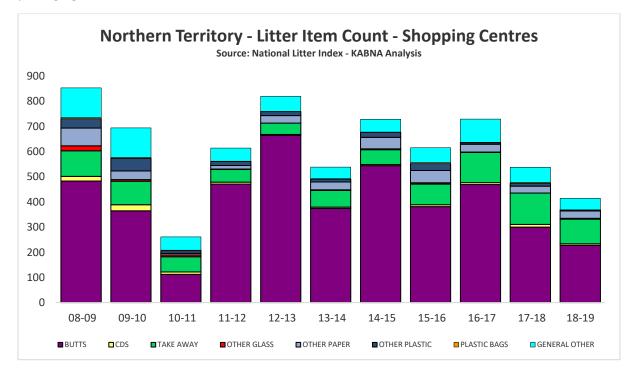
Retail Precincts

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:

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.

						Items				
	NT	Beach	Car Park	Highway	Industrial	Recreational Park	Residential	Retail	Shopping Centre	Total
NT	Areas Surveyed	4000	14680	43660	10800	10550	18141	5791	8550	116172
2018/19	Items counted (excl illegal dumping)	298	745	965	488	79	498	521	414	4007
2010/19	Per 1,000 sq m	75	51	22	45	7	27	90	48	34
NT	Areas Surveyed	4000	14680	43660	10800	10550	18141	5791	8550	116172
2017/18	Items counted excl illegal dumping)	209	783	795	504	172	444	537	538	3979
201//10	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.

					\	/olume - Litre	s			
	NT	Beach	Car Park	Highway	Industrial	Recreational Park	Residential	Retail	Shopping Centre	Total
NT	Areas Surveyed	4000	14680	43660	10800	10550	18141	5791	8550	116172
2018/19	Volume (excl illegal dumping)	29.377	27.031	160.582	41.992	3.184	72.189	25.085	15.044	374.484
2010/13	Per 1,000 sq m	7.34	1.84	3.68	3.89	0.30	3.98	4.33	1.76	3.22
NT	Areas Surveyed	4000	14680	43660	10800	10550	18141	5791	8550	116172
2017/18	Volume (excl illegal dumping)	11.469	24.930	96.513	59.280	6.267	58.643	20.940	27.783	305.824
2017/18	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

						Items					Beverage	Containers	Takeaw	ay Food
	NT - NOV 2018 & MAY 19 AVERAGE	Beach	Car Park	Highway	Industrial	Recreational Park	Residential	Retail	Shopping Centre	Total	Beverage container	tems	fakeaway Food	tems
	CIGARETTE BUTTS	123			203					1740			–	
	Alcoholic sodas / spirit-based mixers, all sizes Beer, all colours of glass, <750ml	1	6223500000000000000000000000000000000000	1 41	1	1	1 31	2		2 89	y y	2 89		
	Beer, all colours of glass, 750ml+ Cider/fruit based etc.	1		4	1		1		1	6 4	у	6 4		
	Flav.wtr/fruit j. dr/sprts dr, (non-carb), <1 litre						1			4	y y	4		
	Flav.wtr/fruit j. dr/sprts dr, (non-carb), 1 litre+ Flav. water/soft drink (carbonated) <1 litre										у			
GLASS	Flav. water/soft drink (carbonated) 1 litre+			1						1	y y	1		
GL	Fruit juice, < 1 litre Fruit juice, 1 litre+			1						1	у	1		
	Other glass	5	5		6	2	6	2	4	43				
	Plain water (carbonated or non-carb.), <1 litre Plain water (carbonated or non-carb.), 1 litre+			2						2	y y	2		
	Wine & spirit, all sizes	4		2			2		CONTRACTOR CONTRACTOR	9				
	Wine cooler, all sizes Total	15	12	68 68	11	3	43	6	4	2 160	у	2		
	ILLEGAL DUMPING		1							1				
	Aerosols - pressure packs Alcoholic sodas & spirit-based mixers			9			2		1	3 9	у	9		
	Beer, aluminium, all types, all sizes Cider/fruit based etc.	2		15			1	1		18 1	ý	18 1		
	Flav. water/soft drink, (carbonated), all sizes	2	3	19	6		5	2	4	39	y y	39		
METAL	Flav. water/soft drink, (non-carb), all sizes Foil take away	6	1				1		3	3 47	у	3	V	47
WE	Food cans (including pet food)			3			2			10			y	
	Industrial cans - all types Metal bottle tops and can pull rings	22	47	70	35	7	45	41	25	289			v	289
	Metal pieces	2	1	10	2	2	2	1		19				
	Other foil Total	33	59	14	58	10	67	54	35	29 465		69		336
	Clothing & materials Condoms	6	8	11	4	2	4	3	2	38 2				
SUC	Construction materials			4	3		2			8				
ANEC	Disposable nappies Ice cream sticks	2			1	2	1			5 28			v	28
	Other miscellaneous		3		1		2	2		22			,	20
MISCELLANEOUS	Rubber pieces (not tyres) Syringes	1	1	7	1	2	2	1	1	<u>12</u> 3				
2	Tyres & pieces	9	40	9 52	1	6	1 13	200000000000000000000000000000000000000		11 127				28
	Total Cartons, flavoured milk < 1 litre	9	16 1	52	11	6	13	12	9 1	9	у	9		28
	Cartons, flavoured milk 1 litre+ Cartons, fruit juice, < 1 litre			1	1	1	1			2	v	2		
	Cartons, fruit juice, 1 litre+			1			1			2	У	2		
	Cartons, milk, plain (white) all sizes Cigarette packets	3	3	1 9	1	1	5	3	3	1 28				
PAPER/PAPERBOARD	Cups/take away containers	3	2	30	5		6	3	5	52			у	52
RB	Coffee cups Flav. water/fruit j. drink/sports drink, non-carb, <1 litre	3	5	1	5	2	1	6	4	38 1	у	1	у	38
APE	Flav. water / fruit j. drink/ sports drink, (non-carb), 1 litre+ Ice cream wrappers	1	1	8			2	2	0	15	ý		v	15
ERVE	Junk mail / free circulars	2	7	13	9		12	8	6	56			У	15
PAP	Newspapers & magazines Other paper	3					5 43			28 292				
	Packages & boxes	5	8	14	9	2	5	1	2	45				
	Paper bags Shopper dockets & related shopping paper (eg, lists)	3			7		9			45 52				
	Tickets, e.g. bus, ATM, vending machine etc.	42	6	4	2	22	4 104	59	2	16		40		405
	Total 6 ring can holders	43 6			100 3		104	2		679 19		12		105
	Bags - heavier glossy typically branded carry bags Bags - supermarket type light weight carry bags	3			2	1	1	1		13 24				
	Bread bag tags	1		1	1		3	1		11				
	Containers, domestic type Containers, industrial e.g. oil			1	1		1			2				
	Drink pouches Flav. milk, <1 litre			2	1		1		1	2	у	2		
	Flav. milk, 1 litre+			2							у			
	Flav.wtr/fruit j. dr, sprts dr etc.(non-carb) <1 litre Flav. wtr/fruit j. dr, sprts dr etc.(non-carb) 1 litre+	1		1		1		1		2	y V	2		
	Flav. water/soft drink (carbonated) <1 litre	2		8	1					11	ý	11		
U	Flav. water/soft drink (carbonated) 1 litre+ Fruit juice <1 litre		1	4						4	y y	4 3		
PLASTIC	Fruit juice, 1 litre+ Lollipop sticks		1	2			1			3 10				10
L1	Other plastic	3	14	32	11		11	14	4	89			У	10
	Packing tape & straps Plain water (carbonated or non-carb) <1 litre	1		3	9		1	1		15 5	y	5		
	Plain water (carbonated or non-carb) 1 litre+	1	1	3					-	4	у	4		007
	Plastic bottle tops Sacks - sheeting - other bags	15		12	3		35			223 19			у	223
	Snack bags & confectionary wrappers Spoons/ cutlery	5	18	47	4	9	24	15	12	132 53			у	132 53
	Straws	13	21	27	23	2	15	13		128			y y	128
	Styrene foam boxes, sheets, etc Take away & cups	3		2	6				1	13 53			v	53
	White milk, all sizes												y	55
	Wine cask bladders Total	6	3 117	6 262	2	28	2 123	3 82	66	21 859		32		598
	GRAND TOTAL	298	745	965	488	79	520	521	414	4030		220		1066

Detailed Litter Volume Tables – NT

INT-NOV 2018 & MUT 9 No No <th></th> <th></th> <th></th> <th></th> <th></th> <th>١</th> <th>/olume - L</th> <th>itres</th> <th></th> <th></th> <th></th> <th>Beverage</th> <th>Containers</th> <th>Takeaw</th> <th>ay Food</th>						١	/olume - L	itres				Beverage	Containers	Takeaw	ay Food
Proof with physical size, and siz		AVERAGE		Car	_	_						container			Items
Bio Control (Sale), Change Control (Sale) Contro (Sale) Control (Sa				0.051060			0.001323		0.035478	0.025875		M	0.749		
Particle and partine and particle and particle and particle and particle			1.851697	3.240469	18.979890		0.231462	14.350649	0.694386		41.200249		41.200		
Image: section of the sectio			0.907292			0.457050			0.000007	0.000007		У			
Image: section interval i					0.228927	0.457853			0.228927	0.228927					
Processe		Flav.wtr/fruit j. dr/sprts dr, (non-carb), 1 litre+										у			
Image: marrie manual sectors and sectors an	SS				1.277246						1,277246		1 277		
Image: marrie manual sectors and sectors an	PIA	Fruit juice, < 1 litre			0.424115						0.424115				
Participational manual (118) water discover (128) (2000) Participational (2000) (2000) Partiter (2000) (2000) Participational (2000) (2000)<	U		0.098200	0.098200		0.108020	0.039280	0.117840	0.029460	0.068740					
Image: particular bands: Image:		Plain water (carbonated or non-carb.), <1 litre	0.098200	0.098200	0.204700	0.108020	0.039280	0.117040	0.025400	0.000740	0.044520	y			
Marcale Marcale Lange Lange Lange Marcale Lange Marcale Marcae Marcae Marcae<			2.505000					4.007400	4 007400			у	2.119		
Image: sec: sec: sec: sec: sec: sec: sec: se			3.363600									v	0.749		
Partial present pair/s Partial present pair/s<		Total	6.609939		29.654969	2.604720	0.270742	18.099321	2.664173	0.297667			54.118		
Note: Calabitity colors A gives and even in the second of th				12.000000	0.684240			1.026260		0.242120					
Open to the state is a set of the state is								1.020300		0.342120		у	3.667		
Image: Note:			0.862800					0.215700	0.215700						
Pic. unit of the formation in the second of the s			0.638303	1.063838		2.340444		1.914909	0.851071	1.702141					
International and marging In	AL	Flav. water/soft drink, (non-carb), all sizes		0.190800	0.190800	0.381600		0.381600			1.144800				
International and marging In	MET		2.543090	2.543090			0.462380			1.387140				у	21.732
Instrument Option Long Long <thlong< th=""> Long Long</thlong<>	-	Industrial cans - all types													
Other is Control Contro Control <thcontrol< th=""> <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>0.028000</td><td></td><td></td><td></td><td></td><td></td><td></td><td>у</td><td>1.156</td></th<></thcontrol<>							0.028000							у	1.156
Opposite Control of manual Control of manua Control of manual Con							0.003120								
Opport Control Control <th< td=""><td></td><td>Total</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>29.391</td><td></td><td>22.888</td></th<>		Total											29.391		22.888
Opport Control continuing U Local Local <thlocal< th=""> Local <thlocal< th=""></thlocal<></thlocal<>			0.084150				0.022950	0.053550	0.038250	0.030600					
Type: Control Control <thcontrol< th=""> <thcontrol< th=""> <thcon< td=""><td>SUC</td><td></td><td></td><td>0.000100</td><td></td><td></td><td></td><td>0.540000</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></thcon<></thcontrol<></thcontrol<>	SUC			0.000100				0.540000							
Type: Control Control <thcontrol< th=""> <thcontrol< th=""> <thcon< td=""><td>NEC</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0.005</td></thcon<></thcontrol<></thcontrol<>	NEC														0.005
Type: Control Control <thcontrol< th=""> <thcontrol< th=""> <thcon< td=""><td>LLA</td><td></td><td>0.001380</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>У</td><td>0.025</td></thcon<></thcontrol<></thcontrol<>	LLA		0.001380											У	0.025
Torea Description Diverse	SCE	Rubber pieces (not tyres)	0.000082				0.000329		0.000082						
Total Total Total Total Total Same Total Total <tht< td=""><td>W</td><td></td><td></td><td>0.001130</td><td></td><td></td><td></td><td></td><td></td><td>0.001130</td><td></td><td></td><td></td><td></td><td></td></tht<>	W			0.001130						0.001130					
Carbon, Shourd mikit lines Image I			1.773112	0.729532			0.031409		1.757892	0.068782					0.025
Cartons, hui jace, 1 lites Cartons, hui jace, 1 lites Cartons, nik, jace, 1 lites Cartons, jace, 1 lites <thc< td=""><td></td><td></td><td></td><td>0.336240</td><td>3.698640</td><td></td><td></td><td>0.672480</td><td>0.336240</td><td>0.672480</td><td>5.716080</td><td>у</td><td>5.716</td><td></td><td></td></thc<>				0.336240	3.698640			0.672480	0.336240	0.672480	5.716080	у	5.716		
Carden, fuel jac, 1 lines i 1.00000					0.312375	0.312375	0.312375	0.312375			1.249500	v	1.250		
Classitie survey containers 0.54477 0.55010 0.60000 0.60000 0.54475 0.54475 5.94425 1 0 0 0.7395		Cartons, fruit juice, 1 litre+						1.035000	1.035000						
Clipstate array containers 1.8227 1.88407 3.48479 0 4.80225 2.18860 3.20275 7.56400 v 7.726 <	0		0.544675	0.653610			0.108935	0.980415	0.544675	0.544675					
Deschapes & boxes 0.980000 0.98000	ARI	Cups/take away containers	1.822375	1.093425	21.868500	3.644750		4.009225	2.186850	3.280275	37.905400			у	
Deschapes & boxes 0.980000 0.98000	RBC		1.470077		3.430179	2.450128	0.980051	3.430179	2.695141	1.960102		V	0.302	У	18.621
Deschapes & boxes 0.980000 0.98000	APE										0.002400		0.302		
Deschapes & boxes 0.980000 0.98000	RIP					1.566000	0.027000							у	0.035
Deschapes & boxes 0.980000 0.98000	APE						0.007000				33.040000				
Pager base 0.02840 0.058190 0.148120 0.067700 0.04230 0.03330 0.04370 0.03030	Ы	Other paper							0.086190						
Shoper dockets & related shopping pager (g., lists) 0.0116 0.02492 0.01395 0.01255 0.01395 0.01255 0.01655 0.01255 0.01655 0.01255 0.016							0.160000								
Total 7.54402 11.958290 44.86889 44.86889 14.982844 1.701991 19.082819 0.81434 0.218929 7.268 56.561 6 ing can holders 0.00375 0.00375 0.00375 0.00375 0.00375 0.00376 0.00476 0.044860 0.0488860 0.048876 0.0		Shopper dockets & related shopping paper (eg, lists)		0.028420	0.009135	0.007105	0.002030	0.013195		0.037555	0.105560				
Fing can holders 0.00250 0.002750 0.002760			7 544042				4 704004		42.028024				7 269		56 561
Bgghearder glossy typically branded carry bags 0.21900 0.175200 0.03200 0.087500 0.043800 1.04800 1.04800 Bgghearder stype light weight carry bags 0.00115 0.00204 0.10820 0.00020 0.00220 0.0152 0.00220 0		6 ring can holders					1.101031						1.200		30.301
Bread bag tags 0.000115 0.000200 0.000230 0.000230 0.000230 0.000230 0.000246 0.000246 Containers, diversity (regime for the section of the sectin of the section of the section of the section of the se		Bags - heavier glossy typically branded carry bags	0.219000	0.175200	0.350400	0.131400	0.040076	0.087600	0.087600	0.043800					
Containers, domestic type 4.1620 8.32400 12.48600 Res Res <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.016970</td> <td></td> <td></td> <td></td> <td></td> <td></td>										0.016970					
Drink pouches mail 0.043125 0.043125 0.043125 0.043125 0.1229 mail Flax. milk, <1 litre		Containers, domestic type											Keelin to to to		
Flar. milk, <1 litre Image 0.79905 m <th< td=""><td></td><td></td><td></td><td></td><td>22.458000</td><td></td><td></td><td></td><td></td><td>0.043125</td><td></td><td>V</td><td>0.129</td><td></td><td></td></th<>					22.458000					0.043125		V	0.129		
Flaw.wtr/fruit_j dr. sprts dr.etc.(non-carb) <1 litre+ 1.244220 0.38810 0.388810 1.47520 y 1.475 Flaw.wtr/fruit_j dr. sprts dr.etc.(non-carb) 1 litre+ 1.244220 0.31105 4.66525 0.62210 - 6.643210 y 6.643 Flaw.wtr/fruit_j dr. sprts dr.etc.(non-carb) 1 litre+ 0.22700 5.78000 - - 6.643210 y 6.616 - Flaw.wtr/fruit_j dr. sprts dr.etc.(non-carb) 1 litre+ 0.20200 5.89000 - - 6.640200 y 6.616 - Flaw.wtr/fruit_j dr. sprts dr.etc.(non-carb) 1 litre+ 0.020230 0.800093 - - 6.64020 y 0.6043 Flaw.wtr/fruit_j dr. sprts dr.etc.(non-carb) 1 litre+ 0.000330 0.00160 - 0.02285 0.001325 0.00152 0.00152 0.00152 0.00152 0.00152 0.00152 0.00152 0.00152 0.00152 0.00152 0.00152 0.00152 0.00152 0.00153 0.0015 0.00152 0.00154 0.00154 0.00155 0.00155 0.00155 0.00155					0.799050										
File: withfluit J. dr. spits diret (non-carb) 1 litre+ 120103 0.00551 0 1.00154 ý.0 1.802 0 File: withfluit J. dr. spits diret (canonated) 1.1024 0.311055 4.68525 0.62110 0 6.643210 ý.0 6.643.31 File: withfluit J. dr. spits diret (canonated) 1 litre+ 0.20003 5.78000 5.78000 5.645000 ý.0 6.643 0 Full juice 1 litre 0.20003 5.20003 1.008345 5.347125 0.000156 y.0 0.00125 0.000135					0.727620		0.269940		0.269940		4 475240		4 475		
Flar. water/soft drink (carbonated) <1 litre+ 1.244220 0.31055 4.68230 0.62210 0.0000 6.643210 y 6.643 0 Flar. water/soft drink (carbonated) 1 litre+ 0.20003 7.78900 5.78900 0.00015 0.00015 0.00015 0.00015 0.00015 0.00015 0.00016 y 1.000116 y 0.00015 0.00015 0.00125 0.00125 0.00125 0.00135 0.0			1.201103				0.366610		0.368810						
OPD Fruit price <1 litre 0.2000/3 0.8000/9 w w n.000116 y 1.000 Fruit price <1 litre 1.00034 0.2000/3 0.8000/9 w n.000116 y 1.000 w Fruit price <1 litre 1.000345 2.2000/3 0.8000/9 w 1.0002285 0.00125 0.000300 y 0.000500 Other plastic 0.000270 0.000370 0.01125 0.000170 0.001370 0.013750 0.01375 0.001375 0.0003915 w 0.0003915 0.0003915 0.0003915 0.0013915		Flav. water/soft drink (carbonated) <1 litre			4.665825	0.622110					6.843210	у	6.843		
Fruit juice 1, litre+ 1.08345 1.08345 1.08345 1.08345 0.00125 0.00130 0.00125 </td <td>υ</td> <td></td>	υ														
Packing tape & straps 0.000270 0.000135 0.000210 0.000135 0.000315 0.000315 0.000135 0.000135 0.000135 0.0000135 0.000135 0.00013	STIK	Fruit juice, 1 litre+		1.068345	3.205035						5.341725	,			
Packing tape 8.straps 0.000270 0.000135 0.000210 0.000135	PLA		0.003125			0.013125	0.003750			0.004375				у	0.005
Plan water (carbonated or non-carb) 1 litre+ 0.770785 0.8783925 v 5.396436 ý 5.395 v Plastic bottle tops 0.116073 0.232145 0.548343 0.26135 0.064040 0.276710 0.15203 0.176110 1.7281113 V 5.396436 V 1.781 V 0.781 0.99045 1.03356 V 0.6518 0.09045 1.03356 0.99045 1.781 V V 0.599 V 0.599 <t< td=""><td>_</td><td>Packing tape & straps</td><td>0.000270</td><td></td><td>0.000810</td><td>0.002430</td><td></td><td></td><td></td><td></td><td>0.003915</td><td></td><td></td><td></td><td></td></t<>	_	Packing tape & straps	0.000270		0.000810	0.002430					0.003915				
Plastic bottle tops 0.116073 0.232145 0.54343 0.216153 0.06404 0.276173 0.152055 0.176110 1.781113 y 1 y 1.781 Sacks - sheeting - other bags 0.00158 0.000788 0.00788 0.00780 0.00780 0.000015 0.0000955 0.000956 0.000956 0.000956 0.000956 0.000956 0.009565 0.009565 0.000956 0.00196 0.00196 0.00196 0.00196 0.00196 0.01200 0.90400 0.11756 0.05230 0.05230 0.05230 0.05230 0.05230 0.05230 0.05230 0.05230 0.05230 0.05230 0.05230 0.05230 0.05230 0.018230 0.05230 0.018230 0.51750 0.48750 V 0.52530 0.018750 0.48750 V 0.05230 0.018750 0.48750 V 0.02530 0.251750 0.487500 V 0.25200 V 0.05230 0.21750 0.487500 0.018750 0.487500 V 0.05230 0.21750 0.487500 <				0.770705		0.393950									
Sacks - sheeting - other bags 0.001015 0.000352 0.000355 0.000355 0.000636 0.000536 0.001750 0.001850								0.276173		0.176110		у	3.333	у	1.781
Spoons/cutlery 0.072000 0.091200 0.096000 0.062400 0.04800 0.052800 0.668800 y 0.509 Straws 0.051563 0.08625 0.11175 0.04875 0.006880 0.063930 0.652400 0.048750 0.063800 0.052800 0.058800 y 0.509 Straws 0.051563 0.08625 0.11175 0.04875 0.005813 0.058430 0.0524930 0.922493 0.05260 0.018750 0.487500 0 0.05250 0.018750 0.487500 0 0.018750 0.487500 0.0524938 y 10.869 Take away & cups 1.656160 1.552650 3.519340 0.724570 0.103510 1.966890 0.828020 0.517550 10.868550 y 10.869 White mik, all sizes		Sacks - sheeting - other bags	0.000158		0.003623	0.000788	0.000315	0.000630	0.000473	0.0000015	0.005985				
Straws 0.051863 0.05825 0.11375 0.094875 0.005188 0.05583 0.05383 0.628938 0.628938 0.528938 Styrene foam boxes, sheets, etc 0.093750 0.055250 0.25500 0.055250 0.018750 0.048750 0.487500 0.018750 0.487500 0.018750 0.487500 0.018750 0.018750 0.487500 0.018750 <td></td>															
Take away & cups 1.656160 1.552650 3.519340 0.724570 0.103510 1.966690 0.828080 0.51750 10.86850 y 10.869 White milk, all sizes -<		Straws	0.051563		0.111375	0.094875	0.006188	0.059813		0.063938	0.525938				
White milk, all sizes 253000 253000 0.50000 0.80000 115000 0.46000 9.660000 26.0000 14.723 Total 9.319415 6.559883 66.873064 14.86963 0.680120 35.409455 1.80000 125.0100 27.606 14.723				1 552650					0.828080					14	10.869
Wine cask bladders 2,50000 1.38000 2,50000 0,92000 0,69000 1,15000 9,66000 9,66000 27,606 14,723 Total 9,319415 6,959833 56,873054 14,89693 0,686182 36,409045 2,875795 1,490463 128,510800 27,606 14,723		White milk, all sizes	1.000100	1.002000	0.010040	0.124010	0.100010	1.000000		0.017000				y	10.003
		Wine cask bladders					0.000100						27.000		44 700
120/001/2 10/002/003 100/002/003 100/002/003 10		GRAND TOTAL	9.319415 29.377468		56.873054 160.582009			35.409045 82.604965	2.875795 25.084619	1.490463 15.043995	128.510800 396.900139		27.606		14./23 94.198