

# **KAB** NATIONAL LITTER INDEX 2019-2020

AUGUST 2020 | REF 11486





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#### INTRODUCTION

2019-20 Keep Australia Beautiful (KAB) National Litter Index marks the fourteenth year in which the survey has been conducted on a national basis.

The 2019/20 survey reports the results of biannual litter counts at the same, undisclosed 983 sites across the country. While over time additional rural highway sites and surveys of critical litter infrastructure have been added, the heart of the survey remains and the KAB 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.

While data continues to be collected in the same way as it always has, in this report individual surveyed items have been consolidated into a few major categories: cigarette related; CDL beverage containers; takeaway food and beverage packaging; and, general other categories. We have also extracted from the data the major other categories, other paper, other plastic and other glass. Full details on this consolidation is contained in the next section of the report.

The report places greater emphasis on the actual litter count and the number of litter items per 1,000m<sup>2</sup>. We have done this because we believe items counted is a more precise measure and also easier to visualise the nature of the litter stream. Those familiar with the survey will be aware that the items counted in the survey are also converted to a volumetric measure using an assumption for the volume of each of the surveyed categories, while the report does include details and commentary on volumetric impacts, the majority of the chart and tables reflect items counted and the number of litter items per 1,000m<sup>2</sup>. Determining whether to use items counted or volume will require readers to apply their own judgement and consider the purpose for which the data is being used.

It is interesting to note that a reduction in "items counted" overall does not automatically result in a corresponding "equivalent volume" reduction. There are some instances where a reduction in overall items counted has resulted in increased litter volumes. We endeavour to report with clarity, and as such both methods of measure (by item & by volume), both of which are referred to in this report and provide important perspectives on litter.



#### METHODOLOGY

This data collection for 2019-2020 was conducted by McGregor Tan in 2 waves: Wave 1: November 2019, Wave 2: May 2020

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The purpose of the research is to provide insight regarding the presence of litter items at sites within broadly comparable regions.

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. <u>E</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 and major cities). Generalization of findings to regional locations must therefore be made with caution.

The total area surveyed across all sites nationally was 1,499,791m<sup>2</sup>. This area spanned a total of 983 sites, and the average site size was 1,526 m<sup>2</sup>.

All sites incorporated within the survey were categorised according to 8 different site types : Residential, beach, industrial, car park, shopping center, retail strip / shop, recreational park, highway.

Uniform guidelines were conformed to during site selection.

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We have achieved this through the vision of our researchers which is underpinned by a strong company ethos respecting tradition while driving innovation and new technologies.



#### SITES & CATEGORIES REPRESENTATION

Site type representation

The following table outlines the number of sites within each of the 8 distinct site types that were sampled within each state:

Site type	ACT / NT / TAS	All other states	Total sites Nationally
Beach	8	16	104
Car Park	11	23	148
Highway	13	27	174
Industrial	9	17	112
Recreational Park	7	13	86
Residential	13	26	169
Retail	8	15	99
Shopping Centre	7	14	91
Total	76	151	983

#### Reporting

Litter counts have been conducted bi-annually in November and May across the years from 2005/06, unless stated otherwise, the 2019/20 results are reported on an annual basis incorporating average figures corresponding to November 2019 and May 2020 counts.

#### Litter per 1,000 m<sup>2</sup>

When calculating the overall average number of litter items per 1,000m<sup>2</sup> the average result is calculated using the overall number of litter items and the total square metres of all sites. The following example outlines the calculation to calculate overall averages.

Site Types	Total area (m²)	Total number of litter items	Number of litter items per 1,000m <sup>2</sup>
Type 1	1,000	40	40
Type 2	2,000	80	40
Туре 3	7,000	70	10
All Site Types	10,000	190	19



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#### 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 table.

Most of the groupings should be self-evident but it is worth explaining the beverage container category in more detail. In this instance we have included in the beverage container category only those items currently classified as eligible containers as part of the SA, NT, NSW and QLD CDS schemes. These schemes exclude items that would, under different circumstances, be regarded as a beverage container. However, given that many of the other State jurisdictions have announced an intention to adopt similar schemes we felt it was easiest to use the SA/NT/NSW "definition" and apply that to all states. It is acknowledged that this is not a legislated policy in other states and is simply an attempt to enable a level of consistency in the way the KAB NLI data is interpreted.

Consolidated Category	Historical Classification
Butts & Packaging	Cigarettes
	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.), ST filtre Glass - Plain water (carbonated or non-carb.)
	Glass - Wine cooler, all sizes
	Metal - Alcoholic sodas & spirit-based mixers
	Metal - Beer, aluminium, all types, all sizes
DL Beverage Containers	Metal - Cider/fruit based etc.
be beverage containers	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 - 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. 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 pop-carb) <1 litre
	Plastic - Plain water (carbonated or non-carb) <1 litre Plastic - Plain water (carbonated or non-carb) 1 litre+
	Metal - Foil take awaγ Metal - Metal bottle tops and can pull rings
	Miscellaneous - Ice cream sticks
	Paper/Paperboard - Coffee cups
	Paper/Paperboard - Cups/take away containers
akeaway Food &	Paper/Paperboard - Ice cream wrappers
everage Packaging	Plastic - Lollipop sticks
	Plastic - Plastic bottle tops
	Plastic - Snack bags & confectionary wrappers
	Plastic - Spoons/ cutlery
	Plastic - Straws
)ther Glass	Plastic - Take away & cups
Other Paper	Glass - Other glass Paper/Paperboard - Other paper
ther Plastic	Plastic - Other plastic
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Ither Plastic	Plastic - Bags - Supermarket type light weight carry bags      Plastic - Bags - Supermarket type light weight carry bags      Glass - Fruit Juice, 1 litre+      Glass - Wine & spirit, all sizes      Metal - Accosols - pressure packs      Metal - Accosols - pressure packs      Metal - Industrial cans - all types      Metal - Industrial cans - all types      Metal - Metal pieces      Metal - Octomer and the second s
Sther Plastic Plastic Bags	Plastic - Bags - Supermarket type light weight carry bags      Plastic - Bags - Supermarket type light weight carry bags      Glass - Fruit Juice, 1 litre+      Glass - Supermarket type light weight carry bags      Metal - Acools - pressure packs      Metal - Acools - pressure packs      Metal - Industrial cars - all types      Metal - Industrial cars - all types      Metal - Metal pieces      Metal - Octomer and the second of the sec
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# EXECUTIVE SUMMARY





# **KEY INSIGHTS**

#### LITTER OVERVIEW

• There has been a continuous decrease in litter items in Australia over the last 10 years and 56,087 items of litter were counted nationally for 2019-20, a decrease of 3.2% compared to the previous year.

- The reduction in litter items was recorded across all regions with the exception of NSW, SA and Queensland.
- Victoria, Tasmania & NT recorded the largest decrease.
- Tasmania (67) recorded the highest number of items per 1,000m<sup>2</sup> followed by Queensland and NSW (46).
- In terms of volumes, these items translate to 5,414 litres of litter volume, a decline of 7.4% compared to last year.

#### CATEGORIES

- The largest contributors to litter items were cigarette butts & packaging (40%) followed by takeaway packaging (16%) and other general items (15%).
- However, in terms of litter volumes the largest contributors were CDL beverage containers (27%) closely followed by illegal dumping (25%), other general items (23%) and takeaway packaging (22%).
- The overall reduction in litter of 3.2% in 2019-20 was attributed to the decline in litter items for the key contributing categories – butts & packaging (9.1%) and takeaway packaging (7.4%).

#### SITE TYPES

- Highways (31%) and car parks (18%) are the main contributors towards litter items at a national level.
   However, in terms of volume, highways (48%) alone contributed to half the litter volume at a national level.
- Litter items reduced across all site types except industrial, car park, shopping centres and beaches.
- Car parks recorded the highest increase in the number of litter items in this year across most regions with the exception of WA and ACT.
- There were increases in the litter at shopping centres recorded in Tasmania, Queensland, ACT and NT, while there were increases at Industrial sites in NSW, WA and Queensland.
- Industrial sites, shopping centres and retail precincts recorded a higher number of litter items per 1,000m<sup>2</sup>.

#### **BUTTS & PACKAGING**

- Butts & packaging litter items decreased by 9.1% recorded across regions except Queensland and NSW.
- Queensland increased in beaches, car park, industrial and residential while NSW in beaches, industrial and residential.
- In addition, litter items increased at car parks across regions except ACT, NSW and WA and at shopping centres in ACT, NT and Tasmania.
- Tasmania (46) recorded the highest number of litter items per 1,000m<sup>2</sup> - three times the national average followed by ACT (16), Queensland and NSW (16).

#### TAKEAWAY PACKAGING

- Takeaway packaging litter items decreased by 7.4% decreases recorded across regions except NSW and ACT
- NSW increased at car parks, industrial and residential while ACT increased across all sites except car park and industrial.
- In addition, litter items increased at highways in Tasmania and WA and car parks in Queensland, SA and Tasmania.
- NSW (9), Queensland, Tasmania (8) and NT recorded the highest number of litter items per 1,000m<sup>2</sup>.
- In terms of type of packaging, plastic (63%) contributed the most followed by metal (17%) and paper / paperboard (17%).



# **KEY INSIGHTS**

#### CDL BEVERAGE CONTAINERS

- CDL beverage containers contributed to 5% of litter items and decreased by 19.2%, while in terms of volumes it contributed the most (27%) and decreased by 22.3%.
- All regions recorded a decrease in the litter items for CDL containers except NT.
- While the litter items for CDL beverage containers have decreased at an overall level across regions, there is an increase recorded at: highways in Tasmania, industrial in NSW and NT, car parks across regions except NSW, WA, SA and beaches in Queensland and WA.
- WA (4.4) recorded the highest number of litter items per 1,000m<sup>2</sup>
  double the national average followed by NSW (2.5).
- In terms of type of packaging, metal (43%) alone contributes to nearly half the litter items for CDL beverage containers followed by plastic items (30%), a decrease in litter recorded across packaging types.

#### PLASTIC BAGS

- Plastic bags contributed to less than 1% of litter and decreased by 11.8% - decreases recorded across regions except NSW and Tasmania.
- NSW also recorded the highest litter items per 1000 m<sup>2</sup>.

#### GENERAL OTHERS

- Other general items contributes to 15% of litter items and recorded an increase of 9.7% increase in litter across regions except SA and NT where it decreased.
- Queensland and NSW (19%) are the key contributors to general litter items and also recorded the highest number of litter items per 1000 m<sup>2</sup>.
- Increase in other general items at Highways across regions except Queensland, SA, WA; Industrial across all regions except ACT, NT, Queensland, SA.
- In terms of the type of items, the increase in litter items is recorded across all material types with paper board (36% contribution) increasing the most (12%)

#### COFFEE CUPS

- The total litter for coffee cups contributes to 1% of litter items and has decreased by 14.6% - decreases recorded across
   regions with the exception of Queensland where it increased by 4.5%.
- NSW (0.9) recorded the highest number of coffee cups per 1000
  m<sup>2</sup> compared to the national average (0.4).

#### BRANDED LITTER

 11% of the total litter is branded with McDonalds contributing the most to branded litter items followed by Coca Cola.

#### SINGLE USE PLASTIC

- Single use plastic contributes to 9% of the overall litter and has reduced by 9.5% over the last year.
- The reduction in litter for single use plastic is recorded across all regions except NSW where it increased by 5.0%.
- NSW (5.8) also recorded the highest number of items for single use plastic per 1,000 m<sup>2</sup> followed by Tasmania (5.1).
- Snack bags and confectionary wrappers (30%) are the biggest contributor to the overall litter for single use plastic followed by straws (25%) and takeaway & cups (19%).

#### ILLEGAL DUMPING

- Illegal dumping (25% contribution) increased by 22.6% this year across regions except Queensland and Tasmania.
- NSW (1.8), SA (1.2) and WA (1.2) recorded the highest volume of illegal dumping per 1,000 m<sup>2</sup>.

#### COVID IMPACT (MAY 2020)

- The overall litter items decreased by 5.9% during May 2020 compared to May 2019, there was a decrease in the items recorded in NT, Victoria, SA and Tasmania.
- Highways, retail and recreational parks recorded a reduction in litter for most of the regions indicating a possible impact due to COVID restrictions.
- The litter increased at shopping centres across almost all regions except NSW, WA and NT and all beaches except Victoria and NT.



# OVERALL LITTER INDEX



#### OVERVIEW OF LITTER INDEX

There were 56,087 items of litter counted nationally for 2019-20, a decrease of 3.2% compared to the previous year (37 items per 1,000m<sup>2</sup>, down from 39 items per 1,000m<sup>2</sup> in 2018-19). There has been a continuous decline in litter items in Australia over the last 10 years.

In terms of litter volumes, these items translate to 5,414 litres of litter volume nationally and a decrease in volume of 7.4% compared to the previous year (3.6 litres per 1,000m<sup>2</sup>, down from 3.9 litres per 1,000m<sup>2</sup> in 2018-19).



States contribution to litter



56,087

(-3.2%) Litter items in 2019-20

# **37** (-2 items)

Items per 1,000m<sup>2</sup>

# 5,414 litre

(-7.4%) Litter volume in 2019-20

# 3.6 litre

(-0.3 litre) Volume per 1,000m<sup>2</sup>



# REGIONS





## LITTER BY REGIONS

In terms of the raw litter data, Queensland, NSW (18%) and WA (15%) were associated with higher contributions to the national litter compared to the other regions. While in terms of volume of litter, NSW and WA have a higher contribution in 2019-20.

However, when the number of sites and area surveyed is taken into account, Tasmania (67) recorded the highest number of litter items per 1,000m<sup>2</sup> followed by Queensland and NSW (46).



#### Litter items per 1,000m<sup>2</sup>





46

NSW

WA

35 ACT



13



#### LITTER ITEMS BY REGIONS

At an overall level, litter items decreased by 3.2% in 2019-20 compared to the previous year. The reduction in litter was recorded across all states with the exception of NSW, SA and Queensland.

Victoria, Tasmania and NT recorded the largest decrease in litter items in 2019-20.



Change from 2018-19



# CONTRIBUTION TO CHANGE (LITTER ITEMS)



Contribution to change by region



# LITTER ITEMS PER 1,000m<sup>2</sup> BY REGIONS

Tasmania recorded the highest number of litter items per 1,000m<sup>2</sup>, however this was lower compared to the previous year.

Queensland and NSW also recorded higher numbers of litter items per 1,000m<sup>2</sup> when compared to the national average.

#### Average number of items per thousand m<sup>2</sup>





#### LITTER VOLUME BY REGIONS

The overall litter volume decreased by 7.4% over the previous year, mainly attributed to falls in WA, NSW, Queensland and SA. Conversely, NT, Victoria, ACT and Tasmania recorded an increase in the volume of litter this year.





# LITTER VOLUME PER 1,000m<sup>2</sup> BY REGIONS

Average litres per thousand m<sup>2</sup>



# CATEGORIES





#### LITTER BY CATEGORIES

In terms of categories, the largest contributors to number of litter items were cigarette butts & packaging (40%) followed by takeaway packaging (16%) and other general items (15%). However, in terms of litter volumes the largest contributors were CDL beverage containers (27%) closely followed by illegal dumping (25%), other general items (23%) and takeaway packaging (22%).

Takeaway packaging has increased in terms of contribution to both litter items and volumes over the last 10 years.

# Butts & Packaging Takeaway Packaging Other Paper Other Glass Plastic Bags Illegal Dumping 25% 13% 15% 16% 27% 23% 23% Liter items Volume

Contribution - 2019-20

**15** Butts & packaging Items per 1,000m<sup>2</sup>

Takeaway packaging Items per 1,000m<sup>2</sup> **1 litre** CDL containers volume per 1,000m<sup>2</sup> 0.9 litre

volume per 1,000m<sup>2</sup>

20



#### LITTER BY CATEGORIES X REGIONS

Cigarette butts & packaging had a higher contribution to litter items in ACT, NT, Tasmania and Victoria.

Takeaway packaging had a higher contribution in NSW and NT compared to national average.

WA had the highest contribution for CDL containers compared to the other states.

#### Categories by region - Items





## **EVOLUTION OF CATEGORIES MIX**





## LITTER ITEMS BY CATEGORIES

The overall reduction in litter of 3.2% in 2019-20 was attributed to a decrease in litter items for the key contributing categories – butts & packaging and takeaway packaging. However, there was an increase in litter items for other general, paper, plastic, glass items and illegal dumping.

CDL containers were also associated with a 19.2% decrease and plastic items 11.8% with decrease in litter items at a national level.



Change from 2018-19



# CONTRIBUTION TO CHANGE (LITTER ITEMS)

Contribution to change by category





# LITTER ITEMS PER 1,000m<sup>2</sup> BY CATEGORIES

Similar to the overall contribution, cigarette butts & packaging had the highest number of litter items per 1,000m<sup>2</sup> followed by takeaway packaging.





#### LITTER VOLUME BY CATEGORIES

There was a decrease in litter volume across categories with the exception of illegal dumping, other glass, paper and plastic litter.





# LITTER VOLUME PER 1,000m<sup>2</sup> BY CATEGORIES





# **SITE TYPES**





## LITTER BY SITE TYPES

Highways (31%) and car parks (18%) were the main contributors towards litter items at a national level. However, in terms of volume, highways (48%) alone contributed to half the litter volume at a national level.

In terms of litter items per 1,000m<sup>2</sup>, retail strips, shopping centres, industrial sites and car parks recorded higher numbers of litter items compared to the national average.

#### Contribution - 2019-20 Car Park Shopping Centre Highway Industrial Retail Beach Residential Recreational Park 203% 4% 3% 12% 18% Litter items Volume

#### ITEMS PER 1,000M<sup>2</sup>

37 TOTAL



63 Industrial 66 Shopping centre

Retail



## LITTER BY SITE TYPES X REGIONS

Queensland, SA and WA were associated with higher contributions from highways compared to the national average.





#### LITTER ITEMS BY SITE TYPES

Litter items decreased overall by 3.2% in 2019-20 compared to the previous year with reductions in litter items across all site types except industrial, car parks, beaches and shopping centres.



CHANGE FROM 2018-19

Highways



Car park

Shopping centre

Retail

Residential

**Recreational park** 

+1% Beach



## CHANGE IN LITTER ITEMS

Car parks recorded the highest increase in the number of litter items this year across all regions with the exception of WA and ACT.

There were increases in the litter at shopping centres recorded in Tasmania, Queensland, ACT and NT, while there were increases at Industrial sites in NSW, WA and Queensland.

Litter at beaches increased only in Queensland, SA and WA.



#### Contribution to change by site type





# LITTER ITEMS PER 1,000m<sup>2</sup> BY SITE TYPE

Industrial sites, shopping centres and retail precincts recorded a higher number of litter items per 1,000m<sup>2</sup>.

Car parks also recorded higher numbers of litter items when compared to the overall average.





#### LITTER VOLUME BY SITE TYPES

A reduction in the volume of litter was mainly associated with highways, industrial and retail sites while all other sites were associated with an increase in the volume of litter in 2019-20.

Industrial sites (6.6 litres) contributed the highest volume of litter per 1,000m<sup>2</sup> followed by highways (4.7 litres).



CHANGE FROM 2018-19

-16% Highways

-11% +7%

Industrial

Car park

+10% Residential -5%

Retail

+28% Shopping centre



#### LITTER VOLUME BY SITE TYPE





# EVALUATING KEY CATEGORIES


### **BUTTS & PACKAGING**

Butts & packaging contributed 40% of litter items and decreased by 9.1% in 2019-20 compared to last year. The contribution in terms of volume was low at 2% of the overall litter volume in 2019-20.

Tasmania (20%), Queensland and NSW (16%) contributed the highest counts of cigarette related litter.

Tasmania (46) recorded the highest number of cigarette related litter items per 1,000m<sup>2</sup>.



#### States contribution to litter



22,390

(-9.1%)

litter items in 2019-20

# **15** (-1 items)

items per 1,000m<sup>2</sup>

## 92 litre

(-29.6%) Litter volume in 2019-20

## 0.06 litre

(-0.03 litre) Volume per 1,000m<sup>2</sup>



### BUTTS & PACKAGING (LITTER ITEMS)

The overall number of cigarette butts and packaging litter items reduced by 9.1% over the last year across most regions with the exception of Queensland and NSW.

Tasmania recorded three times the litter items for butts & packaging per 1,000m<sup>2</sup> compared to the national average.

ACT, Queensland and NSW also recorded a higher number of litter items per 1,000m<sup>2</sup> compared to the national average.





### **BUTTS & PACKAGING (LITTER ITEMS)**

Prioritise focus on

- Queensland high contributing, fastest growing site.
- NSW high contributing, fast growing site.
- WA rate of reduction lower than the overall national average.





### **BUTTS & PACKAGING (LITTER ITEMS)**

Increase in litter for butts & packaging at:

- NSW Beach, industrial, residential.
- WA Beach, highway, industrial.

In addition, litter items increased at car parks across most regions except ACT, NSW and WA, and at shopping centres in ACT and Tasmania.



Change from 18-19



#### Sites contribution – National





### TAKEAWAY PACKAGING

Takeaway packaging contributed 16% of litter items and decreased by 7.4% in 2019-20 compared to last year. In terms of volume, takeaway packaging contributed 22% of overall litter volume in 2019-20, a decrease of 1.6% from the previous year. NSW (23%), Queensland and SA (15%) contributed the most litter items for takeaway & packaging.

NSW, Queensland, Tasmania and NT had a higher than national average number of litter items per 1000 m<sup>2</sup>.





8,846

(-7.4%)

litter items in 2019-20

5.9

## 1,180 litre

(-0.5 items)

items per 1,000m<sup>2</sup>

(-1.6%) Litter volume in 2019-20 0.8 litre

(-0.01 litre) Volume per 1,000m<sup>2</sup>

#### States contribution to litter

42



### TAKEAWAY PACKAGING (LITTER ITEMS)

The overall number of takeaway packaging litter items decreased by 7.4% over the last year with the reduction in litter items observed across most regions except NSW and ACT.

NSW was also associated with the highest number of takeaway packaging litter items per thousand metre square (9.3 items per 1,000m<sup>2</sup>).





### TAKEAWAY PACKAGING (LITTER ITEMS)

Prioritise focus on

- NSW highest contributing, fast growing site.
- ACT- fastest growing.
- Queensland & WA high contribution, decreasing at a slower than the national average.





### TAKEAWAY PACKAGING (LITTER ITEMS)

Change from 18-19



Increase in litter for takeaway packaging at:

- ACT Across all site types except car park and industrial.
- NSW Car park, industrial, residential.

In addition, litter items increased at highways in Tasmania and WA and car parks in SA and Tasmania.



### TAKEAWAY PACKAGING MATERIAL

Plastic packaging items were the biggest contributor to overall takeaway packaging litter items and decreased by 9.2% over the last year.

However, in terms of volumes, paper / paperboard contributed the most and decreased by 3.0% this year.





-1.8% Item change for Metal

-5.5% Item change for Paper / paperboard

-3.0% Volume change Paper / paperboard



### TAKEAWAY PACKAGING MATERIAL (LITTER ITEMS)

The reduction in litter items in 2019-20 was driven by decreased litter for all takeaway packaging types.





### TAKEAWAY PACKAGING MATERIAL (LITTER ITEMS) – BY SITE TYPE

While the litter items decreased at a national level across takeaway packaging types, there was an increase in plastic litter items in NSW, ACT; metal items across regions and paper / paperboard packaging in ACT.

PLASTIC	Contribution in 19-20	Change from 18- 19	METAL	Contribution in 19-20	Change from 18- 19	PAPER / PAPERBOARD	Contribution in 19-20	Change from 18-19
NSW	23%	3%	NSW	19%	15%	NSW	26%	-9%
QLD			QLD			QLD		
SA	15%	-14%	SA	17%	34%	WA	17%	0%
WA	13%	-6%	WA	13%	3%	SA	14%	-15%
NT			NT			ACT	9%	2%
TAS	9%	-10%	TAS	10%	25%	NT		
ACT	7%	15%	ACT	7%	18%	TAS	5%	-1%
VIC			VIC			VIC		
TOTAL		-9%	TOTAL		-2%	TOTAL		-6%

### CDL BEVERAGE CONTAINERS

CDL beverage containers contributed 5% of litter items and decreased by 19.2% this year, while in terms of volumes it contributed the largest volume (27%) and decreased by 22.3%.

More than a third of litter items counted for CDL beverage containers were from WA (39%) followed by NSW (21%). These states also had the highest number of litter items per 1000 m<sup>2</sup>.



#### States contribution to litter



2,676

(-19.2%) litter items in 2019-20 **1.8** (-0.4 items)

items per 1,000m<sup>2</sup>

1,454 litre

(-22.3%) Litter volume in 2019-20 1 litre

(-0.3 litre) Volume per 1,000m<sup>2</sup>



### CDL BEVERAGE CONTAINERS

There was a decrease in the litter items for CDL beverage containers (-19.2%) compared to last year. The decrease was recorded across all regions except NT which remains static.





### CDL BEVERAGE CONTAINERS

Prioritise focus on

- WA highest contributing, decreasing at a slower rate (-15.2%) when compared to national average (-19.2%).
- NT Overall litter items in NT declining while litter for CDL is static





### CDL BEVERAGE CONTAINERS (LITTER ITEMS)

Change from 18-19

While the litter items for CDL beverage containers decreased at an overall level across regions, there was an increase recorded at :

- Highways in Tasmania.
- Industrial in NSW.
- Car parks across most regions except NSW, WA, SA.
- Beaches in WA.





### CDL BEVERAGE CONTAINERS MATERIAL

Metal (43%) contributed the most to litter items for CDL beverage containers followed by plastic items (30%).

There was a sharp decrease in the litter items across packaging types for CDL beverage containers except glass items which increased by 5.0% in this year.



-20% Item and volume change for Metal

-29% Item and volume change for Plastic

+5% Item change for Glass

-7% Volume change for Glass



### CDL BEVERAGE CONTAINERS MATERIAL (LITTER ITEMS)





### CDL BEVERAGE CONTAINERS MATERIAL (LITTER ITEMS) BY SITE TYPE

The increase for glass items for CDL beverage containers was recorded in NSW and Tasmania

METAL	Contribution in 19-20	Change from 18 19
WA	39%	-14%
NSW	21%	-7%
TAS	9%	-14%
SA	5%	-17%
АСТ	3%	-21%
Total		-20%
GLASS	Contribution in 19-20	Change from 18- 19
WA	34%	-13%
١SW	16%	43%
5A	6%	-40%
-AS	4%	31%
	1%	-27%
ACT	170	2770

PLASTIC	Contribution in 19-20	Change from 18- 19
WA	43%	-17%
NSW	20%	-40%
TAS	5%	-7%
SA	4%	-56%
АСТ	3%	-17%
TOTAL		-29%

PAPER / PAPERBOARD	Contribution in 19-20	Change from 18- 19
NSW	39%	10%
WA	29%	-24%
SA	7%	-53%
TAS	5%	-25%
АСТ	2%	200%
TOTAL		-24%

### **PLASTIC BAGS**

Plastic bags contributed to less than 1% of litter – both in terms of items (0.5%) and volume (0.2%). Plastic bag litter items decreased by 11.8% this year.

NSW (30%), WA (16%), Queensland and SA (14%) were associated with a higher contribution of plastic bag litter compared to other regions.

NSW also recorded the highest litter items per 1,000m<sup>2</sup>.



#### States contribution to litter



273



## 13 litre

## 0.01 litre

(-11.8%) litter items in 2019-20

items per 1,000m<sup>2</sup>

(-17.1%) Litter volume in 2019-20

Volume per 1,000m<sup>2</sup>



### PLASTIC BAGS (LITTER ITEMS)

The reduction in litter items was recorded across most states except NSW, ACT and Tasmania.







### PLASTIC BAGS (LITTER ITEMS)

Priority order:

- NSW highest contributing, fast growing.
- ACT fastest growing for plastic bags while overall litter in ACT decreased (-1.8%).





### PLASTIC BAGS (LITTER ITEMS)

Increase in litter for plastic bags at:

- ACT Across all site types except residential.
- NSW Across all site types except beach, highway and shopping centre.
- Tasmania Highway, recreational park, residential, retail and shopping centre.





#### Sites contribution – National







### **GENERAL OTHER**

Other general items contributed to 15% of litter items and recorded an increase of 9.7% compared to last year, while in terms of volume it contributed 23% and decreased by 14.6%.

Queensland and NSW (19%) were the main contributors to general other litter items and also recorded the highest number of litter items per 1,000m<sup>2</sup>.



#### States contribution to litter



8,225

(+9.7%) litter items in 2019-20 5.5

(+0.5items)

items per 1,000m<sup>2</sup>

1,259 litre

(-14.6%) Litter volume in 2019-20 0.8 litre

(-0.14 litre) Volume per 1,000m<sup>2</sup>

61



### GENERAL OTHER (LITTER ITEMS)

The increase in general other litter items was recorded across all regions with the exception of SA and NT.





### GENERAL OTHER (LITTER ITEMS)

Priority order:

- Victoria high contributing, fastest increase in litter items.
- Queensland highest contributing, litter for general others growing faster than the overall litter in the state.
- WA high contribution, litter for general others is static while the overall litter (-1.4%) decreased in the state.





### GENERAL OTHER (LITTER ITEMS)

- Highways increased for all regions except SA, WA.
- Industrial also increased across all regions except ACT, SA.
- Car parks increased across all regions except ACT, Tasmania, WA.





#### Sites contribution – National



### GENERAL OTHER MATERIAL (LITTER ITEMS)

The increase in general other litter items was recorded across all material types with the exception of glass items which only contribute to 1% of the litter for general other items.













### **GENERAL OTHER MATERIAL - (LITTER ITEMS)**

Metal recorded higher litter across regions, while paper / paper board litter decreased in most of the regions with the exception of ACT.

Plastic litter increased in most of the regions with the exception of SA and ACT.

PAPER / PAPERBOARD	Contribution in 19-20	Change from 18-19
VIC		
NSW	19%	-18%
QLD		
SA	9%	-35%
WA	9%	-26%
NT		
АСТ	6%	18%
TAS	5%	-9%
TOTAL		12%

METAL	Contribution in 19-20	Change from 18- 19
QLD		
NSW	23%	16%
WA	15%	8%
SA	13%	47%
АСТ	9%	6%
TAS	5%	16%
NT		
VIC		
TOTAL		7%

PLASTIC	Contribution in 19-20	Change from 18- 19
QLD		
NSW	22%	21%
WA	16%	17%
SA	11%	-24%
VIC		
TAS	9%	13%
АСТ	5%	-12%
NT		
TOTAL		11%



## ADDITIONAL ANALYSIS



### LITTER BINS

72% of the total sites audited were without bins. ACT and WA were the regions that had the least proportion of sites with bins.

In terms of the site types, retail, shopping centre and recreational parks were more likely to have sites with bins than the other sites.



## 28%

Sites with bins

Retail without bins

30%

25%

Shopping centres without bins

76%

Beaches without bins



### LITTER BINS BY SITE TYPE



### **CIGARETTES BUTT BINS**

Most of the regions had no cigarette bins (92%).

NT and Queensland had a relatively higher number of sites with butt bins compared to other regions.





Sites with butt bins

Retail without bins

79%

70%

Shopping centres without bins

93%

Beaches without bins



### **CIGARETTES BUTT BINS**

Most of the site types had no cigarette bins.

Retail and shopping centre recorded a higher proportion of sites with bins compared to the



**Butt Bins** 

Proportion of sites
Sites without bins

#### overall average.

### COFFEE CUPS

The total litter for coffee cups contributed 1% of litter items and decreased by 14.6%. The litter for coffee cups fell across most regions with the exception of Queensland where it increased.

NSW recorded the highest number of coffee cups per 1,000m<sup>2</sup>.





-14.6% Decline versus 2018-19





Sites contribution & growth over last year (2019-20 over 2018-19)


#### SINGLE USE PLASTIC

Single use plastic contributed 9% of the overall litter and fell by 9.5% over the last year.

The reduction in litter for single use plastic was observed across all regions except NSW where it increased by 5.0%.

NSW also recorded the highest number of litter items for single use plastic per 1,000m<sup>2</sup> followed by Tasmania.

Litter items per 1000 m<sup>2</sup>





QLD

SA

WA

NT



4,914 litter items in 2019-20



NSW – Items per 1,000 m<sup>2</sup>

5.1 TAS – Items per 1,000 m<sup>2</sup>



#### SINGLE USE PLASTIC BY SITE TYPE



Litter item count - Single use plastic



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Single use plastics excludes plastic shopping bags and beverage containers

#### SINGLE USE PLASTIC – ITEM TYPE

Snack bags and confectionary wrappers (30%) were the biggest contributor to the overall litter for single use plastic followed by straws (25%) and takeaway & cups (19%).

The decrease for single use plastics in 2019-20 was observed across the main contributing item types except takeaway & cups and spoons / cutlery.



# -3.0%

Straws

-24.4%

Snack bags & confectionery wrappers

4.2%

Takeaway & cups



#### SINGLE USE PLASTIC BY TYPE OF ITEM





#### **ILLEGAL DUMPING**

Illegal dumping contributed 25% of the litter volume and increased by 22.6% this year. The increase in illegal dumping was recorded across all regions with the exception of Queensland and Tasmania.

NSW (1.8), SA (1.2) and WA (1.2) recorded the highest volume of illegal dumping per 1,000  $m^2$ .



## **57** (+22.6%) litter items in 2019-20

## **1,368 litre** (+22.6%) Litter volume in 2019-20

0.9 litre (+0.2 litre)

Volume per 1,000m<sup>2</sup>





#### **ILLEGAL DUMPING**

Litter volume per 1000 m2



Growth over 2018-19



1.8

#### **BRANDS RESPONSIBLE FOR LITTER**

11% of the total litter was branded with McDonalds contributing the most to branded litter items followed by Coca Cola.





# **McDonalds**

Coca Cola

Cadbury

Red Bull V Energy drink

KFC

## IMPACT OF COVID (MAY DATA)



The overall litter items decreased by 5.9% during May 2020 compared to May 2019, there was a decrease in the items recorded in NT, Victoria, SA, Tasmania and Victoria.





NSW

+1.2%

WA

-19.6%

TAS

-10.2%

+0.5%





KAB | NLI 2019-2020

82



Highways, retail and recreational parks recorded reduced litter for most of the regions indicating a possible impact due to COVID restrictions.

Litter increased at shopping centres across almost all regions except NSW, WA and NT and all beaches except Victoria and NT.







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**RESEARCH.** STRATEGY. SOLUTIONS.

### THANK YOU

