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Litter Strategy Monitoring Wave 78 – November 2019 Report

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Project No: 10705

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Section 1

Introduction

- 1.1 This document has been prepared by McGregor Tan Research to report on Wave 78 of the quarterly KESAB Litter Monitor. Surveys for the current wave were conducted in South Australia during November 2019.

Background

- 1.2 Regular monitoring of the litter stream is necessary in order to maintain a clear picture of its components, such as the various material types that contribute to the litter stream as well as the distribution of litter across different area types. Keep South Australia Beautiful (KESAB) had been monitoring the State's litter stream for many years, but the level of detail required during the South Australian Government's moratorium on changes to Container Deposit Legislation was considerably greater than previously recorded.
- 1.3 An expanded monitoring program commenced in February 1998, and McGregor Tan Research was commissioned at that time to undertake the actual count and to report regularly on the outcomes. This expanded program was continued throughout 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019 and is planned to continue.
- 1.4 The count was completed quarterly, with the exception of August 2002, carried out in February, May, August and November of each year until 2015. Since then, the data has been counted twice a year, in May and November.
- 1.5 During each Wave of the survey, litter counts are undertaken at 151 sites across South Australia. In conjunction with the national litter count, a review of all South Australian sites showed that 11 of the sites surveyed were disproportionately represented in the data. These original sites were found to be unusual in nature, and were replaced with 11 revised sites.
- 1.6 The data collection form utilised for the count was jointly developed by McGregor Tan Research and KESAB. A copy of this form is provided in Appendix 2.
- 1.7 In January 2003, Container Deposit Legislation (CDL) was extended to cover most beverages under 1 litre, such as juice cartons, fruit boxes, flavoured milk cartons, etc. As a result, a new method of analysing the data had to be adopted so that the changes to the CDL, and the effect on the total litter stream could be evaluated.

- 1.8 Prior to the August 2004 Litter Count, the data collection form was re-evaluated and re-designed to take into account the changes to the CDL and also to incorporate new categories for litter items that were previously coded as 'other' or in an inappropriate category. The changes that were made to the data collection form include:
- Plastic bags were separated into 3 types of litter:
 - Supermarket type lightweight shopping bags
 - Heavier glossy, typically branded carry bags
 - Sacks, sheeting and other bags
 - Bottle and can tops were moved and separated from the Miscellaneous Category into both 'plastic bottle top' and 'metal bottle and can tops'.
 - The following four litter types were also added to the Plastic Category:
 - Bread bag tags
 - Lollipop sticks
 - Spoons/ cutlery
 - Drink pouches
 - The Metal Cans category name was changed to Metal.
 - Foil take away was moved from Miscellaneous to Metal.
 - Cigarette butts were separated from the Miscellaneous Category.
 - Two extra items were added to the Paper/paperboard Category:
 - Paper bags
 - Shopper dockets & related shopping paper
- 1.9 In previous waves, the data collection form separated each litter type into CDL and non-CDL categories. However, extended Container Deposit Legislation (CDL) has now meant that the litter categories alone (e.g. Flavoured milk, < 1 litre) can be used to establish whether or not beverage containers are covered under CDL or not.
- 1.10 In order to determine the effectiveness of the current CDL (as of January 2003,) and for comparative purposes, it was necessary to re-calculate the number of current CDL items from the waves prior to the extension. References to CDL items in Waves prior to Wave 17 (waves 1-16) therefore denote beverage containers that are currently covered by CDL – not the items that were covered by the legislation prior to this time.
- 1.11 During the Wave 29 Monitor estimates of the volumes for each litter item category were defined. The assignments of volume estimates to each litter item category were based on actual measurements of containers/ items, the condition that these items were most commonly found (which was based on the audits of at least three Waves), and the most common or average size of the items that were found within each

category.

- 1.12 The auditors were an important part of the volume formulation process, and they were able to record the number, size and type of different items within each category over a number of waves. Volumes ascribed to each item represented the average size for that category across all site types.
- 1.13 The final volume attributed to each litter item category furthermore took into account the fact that some items were often found crushed and weathered. For example, some drink cans and cartons are often crushed and/ or weathered when they are identified by the auditors and counted. The same volume measurements have been used for all subsequent Waves.
- 1.14 Two noteworthy events that have taken place since the beginning of this longitudinal study include:
- The deposit on drink containers was increased from 5 cents to 10 cents in September 2008.
 - The ban on thin plastic shopping bags came into effect in May 2009.
- 1.15 This document reports on Wave 78 of the longitudinal study. The litter count was conducted during November 2019. Section 2 of this report outlines the litter characteristics of the 151 sites, which include 11 revised sites (replacing 11 of the original 151). Appendix 1 contains charts tracking results back across all prior Monitors, and includes weighted results to facilitate meaningful comparison of results established at the 151 original sites with results derived from the 151 revised sites.

Section 2

Wave 78

Executive Summary

The following Executive Summary covers the findings of the November 2019 KESAB Litter Monitor (Wave 78). Where possible, results have been tracked against those derived from any previous Waves which incorporated revised sites. All 151 sites were counted during the November 2019 count.

Items Counted

A total of 8,205 litter items were counted across the 151 South Australian sites during Wave 78. This figure is higher than the previous monitor in May 2019 (6,918) and also below monitor conducted in November 2018 (7,270) at the same time last year.

Cigarette butts remained the main contributor (27%) to the litter count with 2,232 butts counted in Wave 78, up from Wave 77 (2,209) in May 2019 but down from Wave 76 (2,527) in November 2018 conducted at the same time in the previous year.

The overall increase in number of items counted was most strongly demonstrated by several litter types in Wave 78, including:

- PAPER/PAPERBOARD - Other paper (including tissues) – 1,426 items, up from 1,005 items in Wave 77 (42% increase)
- PLASTIC - Other plastic - 1096 items, up from 675 items in Wave 77 (62% increase)
- GLASS - Other glass - 478 items, up from 156 items in Wave 77 (206% increase)
- MISCELLANEOUS - Clothing & materials - 168 items, up from 68 items in Wave 77 (147% increase)
- METAL - Metal bottle tops and can pull rings - 270 items, up from 176 items in Wave 77 (53% increase)
- METAL - Other foil - 197 items, up from 125 items in Wave 77 (58% increase)
- MISCELLANEOUS - Rubber pieces (not tyres) - 112 items, up from 46 items in Wave 77 (143% increase)
- METAL - Metal pieces - 110 items, up from 59 items in Wave 77 (86% increase)
- PLASTIC - Plastic bottle tops - 270 items, up from 237 items in Wave 77 (14% increase)

Litter types that experienced larger decreases in the number of items in Wave 78 included:

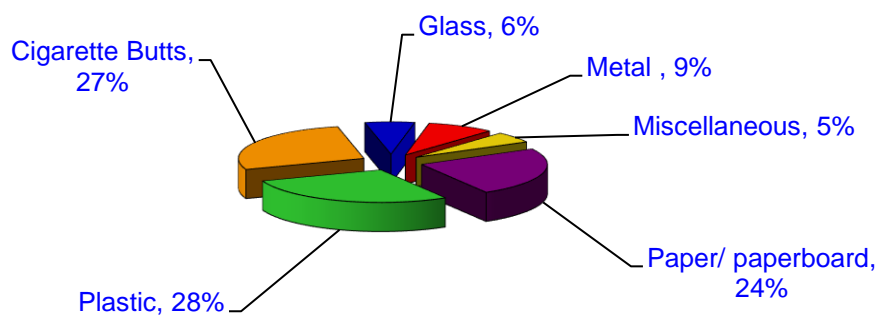
- PLASTIC - Snack bags & confectionery wrappers – 213 items, down from 314 items in Wave 77 (32% decrease)
- PAPER/PAPERBOARD - Coffee cups - 58 items, down from 114 items in Wave 77 (49% decrease)
- PAPER/PAPERBOARD - Cigarette packets - 48 items, down from 85 items in Wave 77 (44% decrease)
- PLASTIC - Styrene foam boxes, sheets, etc. - items, down from 39 items, down from 74 items in Wave 77 (47% decrease)

- GLASS - Beer, all colours of glass, 750ml+ - 0 items, down from 27 items in Wave 77 (100% decrease)
- PAPER/PAPERBOARD - Cups/take away containers - 118 items, down from 144 items in Wave 77 (18% decrease)
- PLASTIC - Take away & cups - 167 items, down from 192 in Wave 77 (13% decrease)
- PLASTIC – Straws - 179 items, down from 199 items in Wave 77 (10% decrease)

Plastic items (28%, down from 30% in Wave 77) and cigarette butts (27%, down from 32% in Wave 77) accounted for the largest proportion of all litter items counted in Wave 78. Other material types represented the following proportions of the litter items counted:

- Paper/ paperboard (24%, down from 25% in Wave 77)
- Metal items (9%, up from 7% in Wave 77)
- Glass items (6%, up 3% in Wave 77)
- Miscellaneous items (5%, up from 3% in Wave 77)

Items as Proportions of Total by Material Type



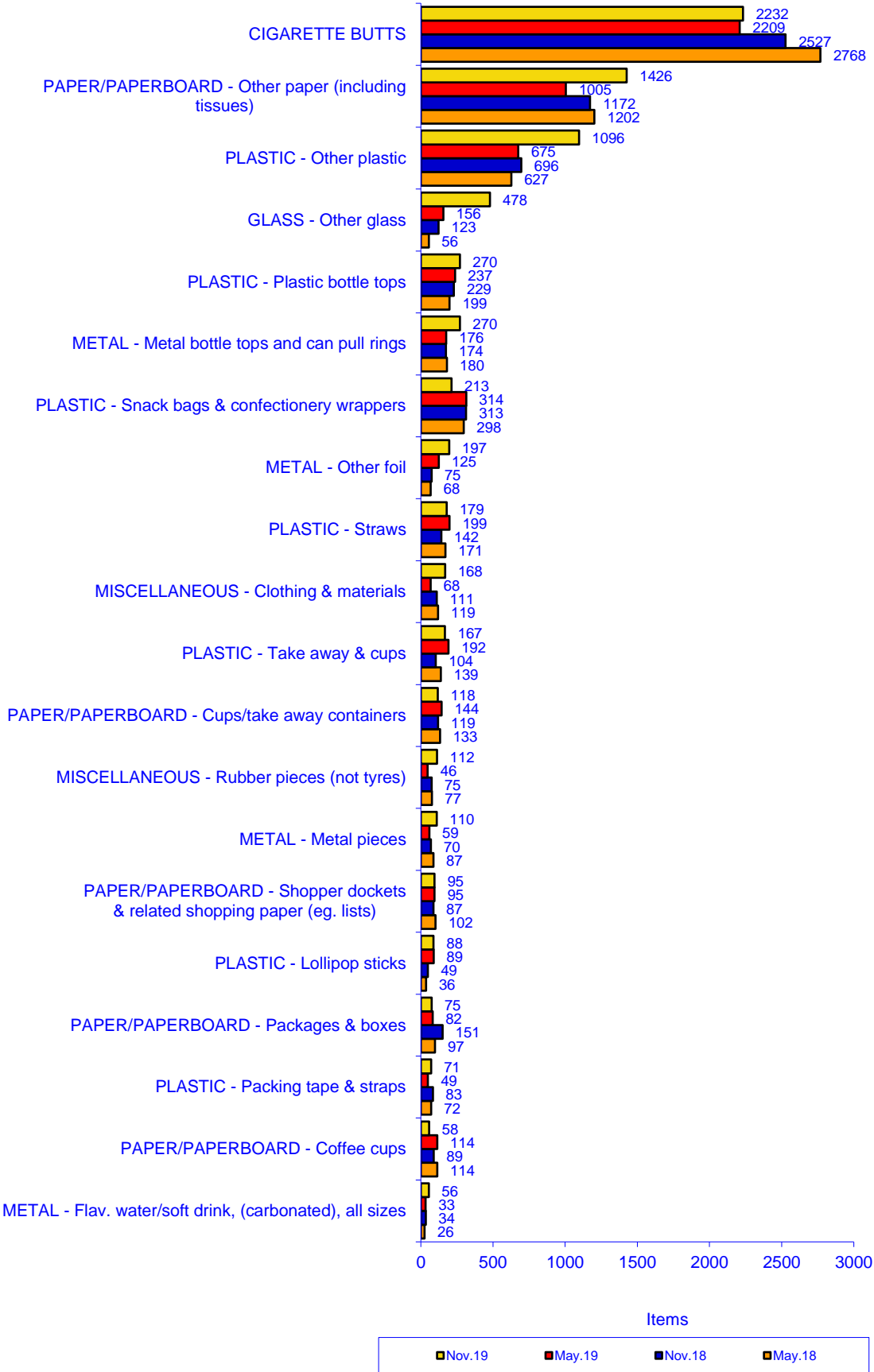
The top 20 ranking of litter type by number of items in Wave 78 was similar to the results for Wave 77, with new items entering the Top 20:

- MISCELLANEOUS - Rubber pieces (not tyres)
- METAL – Flavoured water / soft drink, carbonated, all sizes

With new entrants, there are always those items that exit from the top 20 item list, in Wave 78 these items were:

- PAPER/PAPERBOARD – Cigarette packs
- PLASTIC – Styrene foam boxes, sheets etc.

TOP 20 CATEGORIES - HIGHEST COUNTS



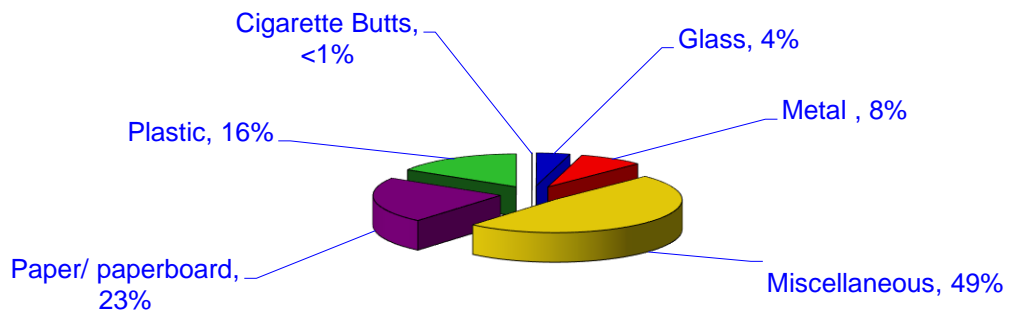
Litter Volume

The total volume of litter recorded in November 2019 amounted to 0.744 cubic metres, lower than the estimated litter volume of May 2019 (0.810m³) and lower than of November 2018 (0.930m³) conducted at the same time in the previous year.

The largest proportion of litter volume for Wave 77 was contributed by miscellaneous items (49%, up from 28% in Wave 77). Other material types represented the following proportions of the total volume of litter items counted:

- Paper Items (23%, down from 30% in Wave 77)
- Plastic items (16%, down from 30% in Wave 77)
- Metal (5%, unchanged from 5% in Wave 77)
- Glass (6%, up from 6% in Wave 77)
- Cigarette butts (<1%, unchanged from Wave 77)

Litter Volume as a Proportion of Total Volume



MISCELLANEOUS - Illegal dumping accounted for the highest volume of litter in Wave 78, with an estimated volume of 0.336m³ (up from 0.216m³ in Wave 77). Other items associated with large estimated litter volumes in Wave 78 included:

- PAPER/PAPERBOARD - Cups/take away containers - 0.086m³ (down from 0.105m³ in Wave 77)
- PLASTIC – Take away & cups - 0.035m³ (down from 0.040m³ in Wave 77)
- PAPER/PAPERBOARD – Coffee cups - 0.028m³ (down from 0.056m³ in Wave 77)
- PLASTIC - Containers, domestic type - 0.025m³ (down from 0.125m³ in Wave 77)

- METAL – Flavoured water / soft drink (carbonated), all sizes - 0.024m³ (up from 0.014m³ in Wave 77)
- PLASTIC - Containers, industrial e.g. oil - 0.022m³ (up from nil in Wave 77)
- METAL – Foil take away - 0.019m³ (up from 0.011m³ in Wave 77)
- MISCELLANEOUS – Construction materials - 0.014m³ (up from 0.003m³ in Wave 77)
- GLASS– Beer, all colours of glass, <750ml - 0.012m³ (unchanged from 0.012m³ in Wave 77)
- PAPER/PAPERBOARD – Cigarette packets - 0.010m³ (down from 0.019m³ in Wave 77)
- PAPER/PAPERBOARD – Flavoured milk <1 litre - 0.010m³ (down from 0.012m³ in Wave 77)

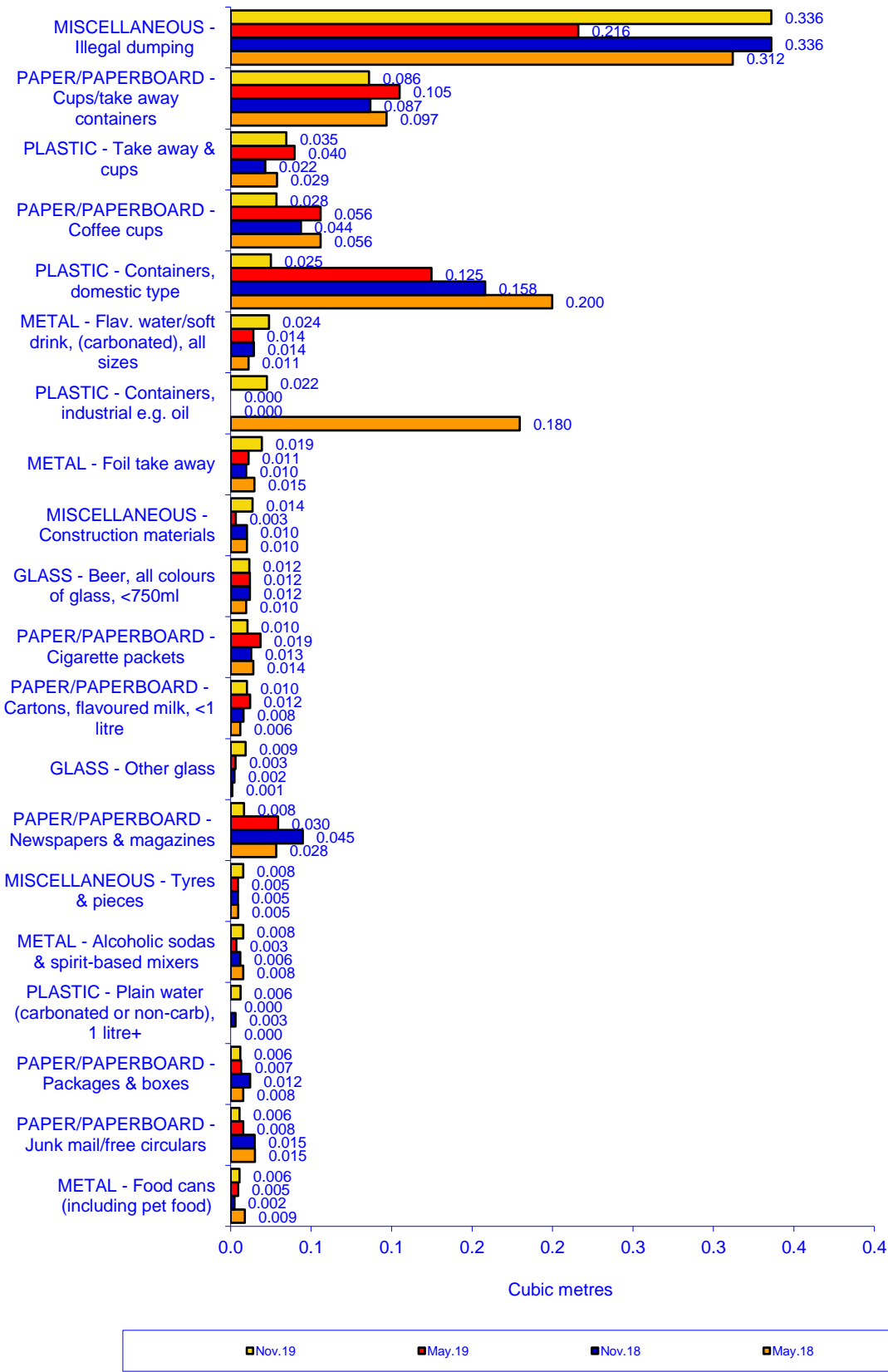
The top 20 ranking of litter items by volume in Wave 78 was similar to the results for Wave 77, with 7 new items entering the Top 20. These items were:

- PLASTIC – Containers, industrial e.g. oil
- MISCELLANEOUS – Construction materials
- GLASS – Other glass
- MISCELLANEOUS – Tyres & pieces
- METAL – Alcoholic sodas & spirit-based mixers
- PLASTIC – Plain water (carbonated or non-carbonated) 1 litre+
- METAL – Food cans (including pet food)

With new entrants, there are always those items that exit from the top 20 volume list, in Wave 78 the following items were removed:

- PLASTIC – Plain water (carbonated or non-carbonated) <1 litre
- PLASTIC – White milk, all sizes
- PLASTIC – Flavoured water/soft drink (carbonated) <1 litre
- PLASTIC – Flavoured milk <1 litre
- PLASTIC – Flavoured water/fruit juice drink / sports drink (non-carbonated), <1 litre
- METAL – Beer, aluminium, all types, all sizes
- GLASS – Beer, all colours of glass, 750ml+

TOP 20 CATEGORIES - LARGEST VOLUMES

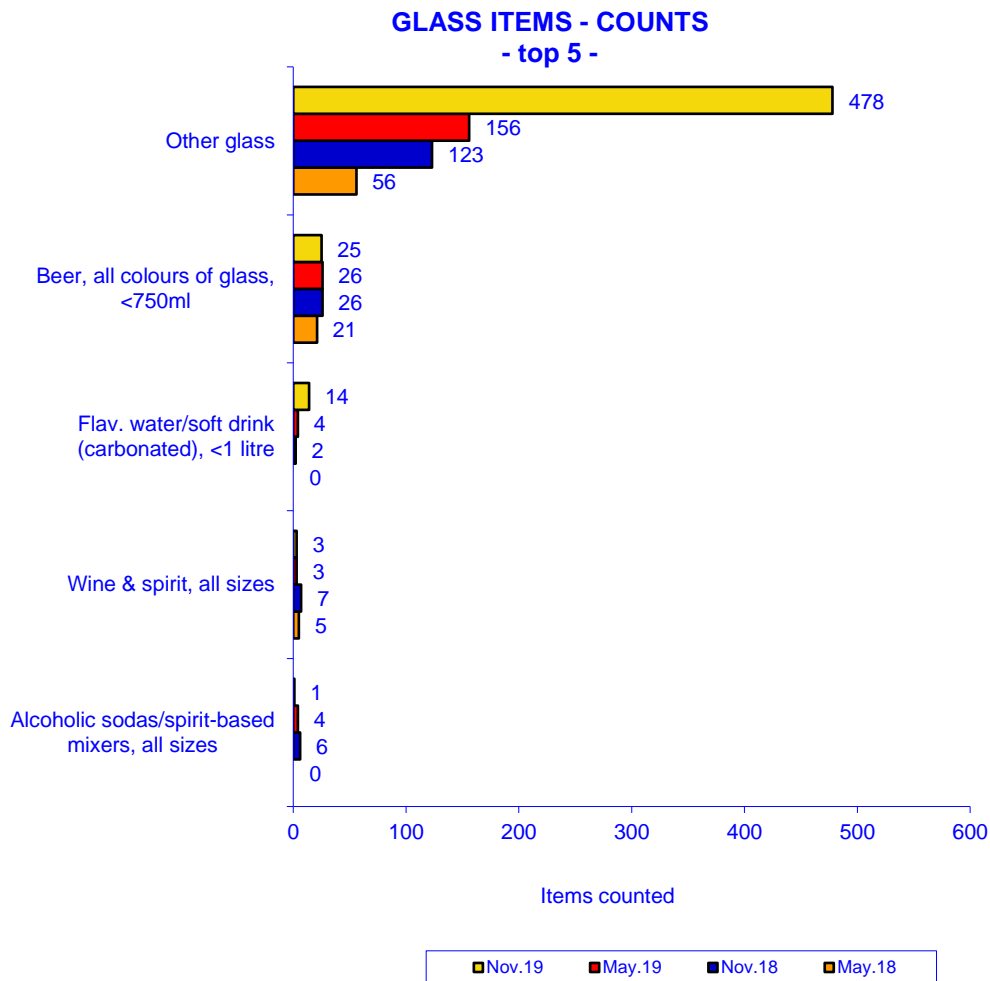


3.1 Glass

Items

A total of 495 glass litter items (up from 227 items in Wave 77) were counted during Wave 78. The most frequently recorded glass items included:

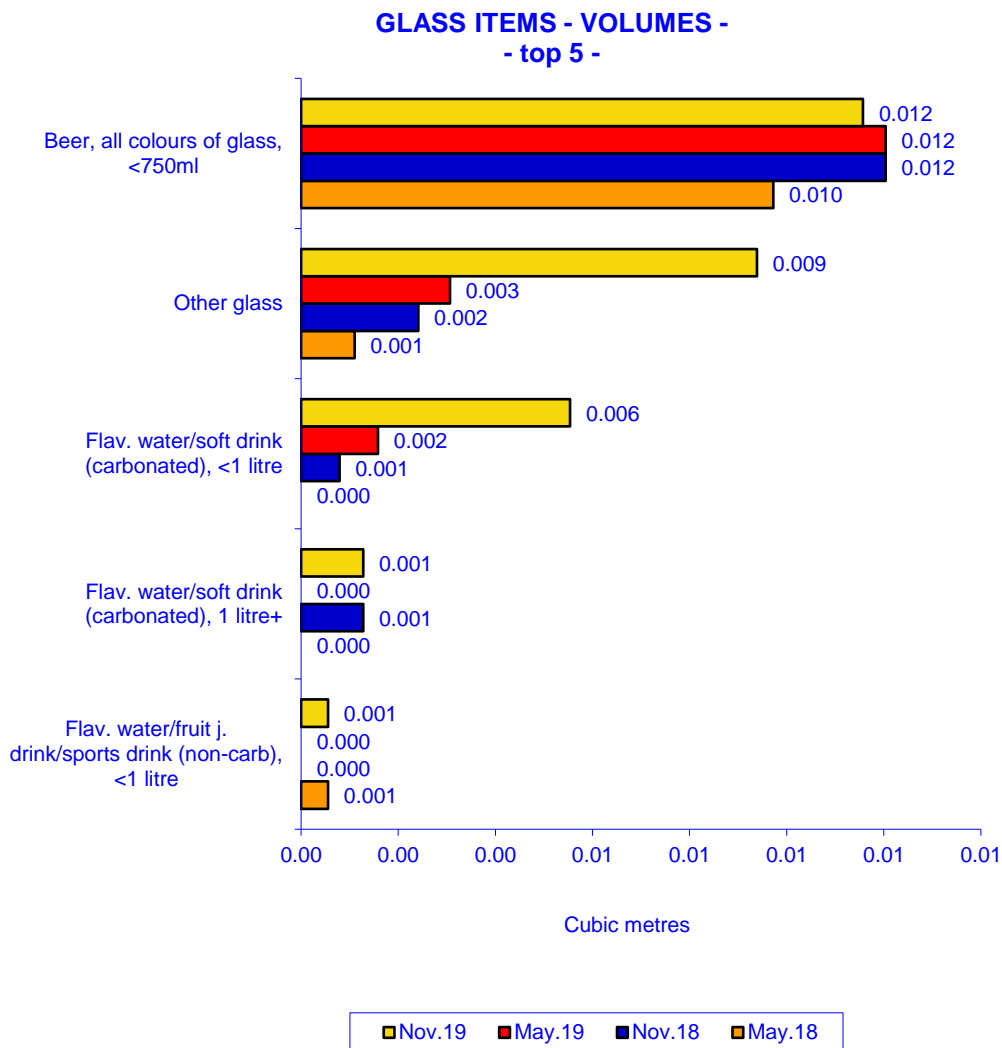
- Other glass (478 items, up from 156 items in Wave 77)
- Beer, all colours of glass <750ml (25 items, down from 26 items in Wave 77)
- Flavoured water/ soft drink (carbonated), < 1 litre (14 items, up from 4 item in Wave 77)
- Wine & spirits, all sizes (3 items, unchanged from 3 items in Wave 77)
- Alcoholic sodas / spirit-based mixers, all sizes (1 item, down from 4 item in Wave 77)



Volume

Glass litter items accounted for 0.032m³ (down from 0.049m³ in Wave 77) in estimated litter volume during Wave 78. Glass items which contributed the largest volumes to the total included:

- Beer, all colours of glass <750ml (0.012m³, unchanged from 0.012m³ in Wave 77)
- Other glass (0.009m³, up from 0.003m³ in Wave 77)
- Flavoured water / soft drink (carbonated), < 1 litre (0.006m³, up from 0.002m³ in Wave 77)
- Flavoured water / soft drink (carbonated), 1 litre+ (0.001m³, up from 0.000m³ in Wave 77)
- Flavoured water / fruit juice / soft drink (non-carbonated), < 1 litre (0.001m³, up from 0.000m³ in Wave 77)

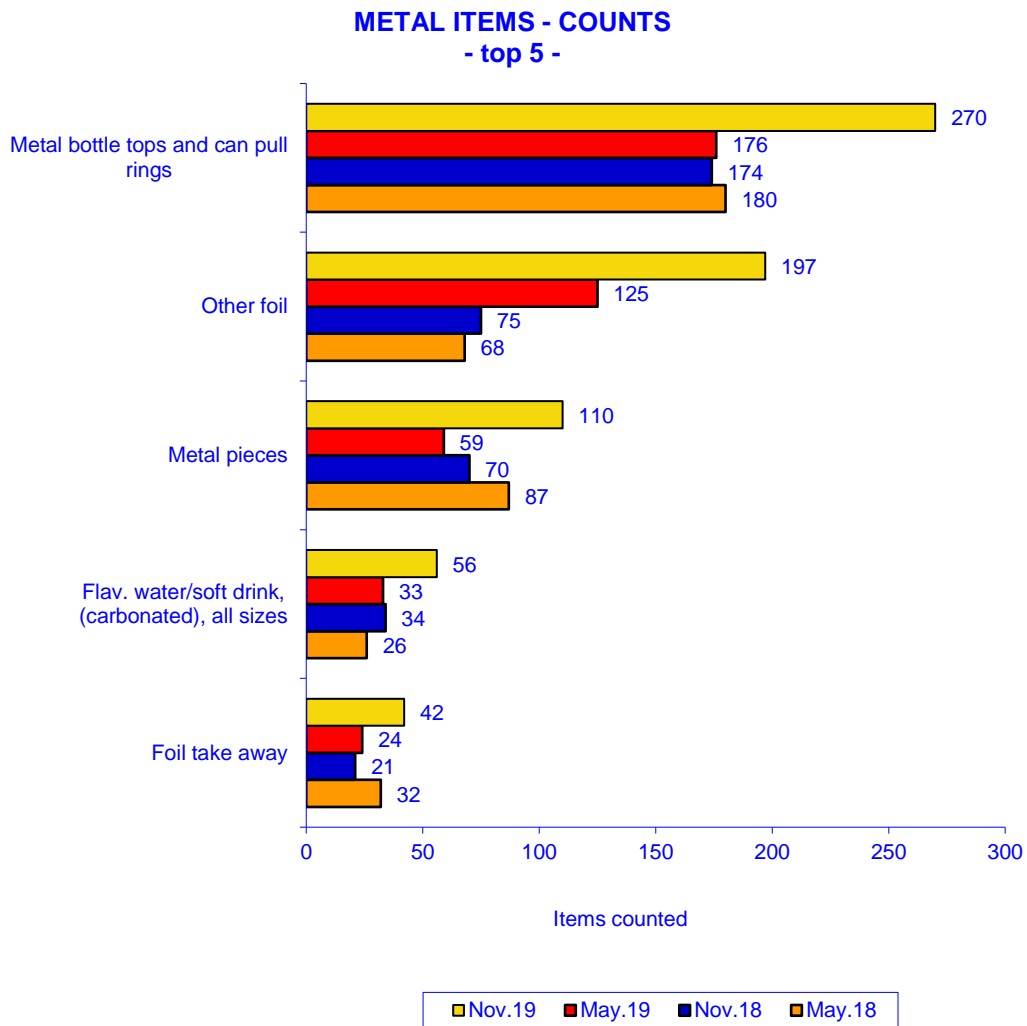


3.2 Metal

Items

A total of 709 metal litter items (up from 455 items in Wave 77) were counted during Wave 78. The most frequently counted metal litter items included:

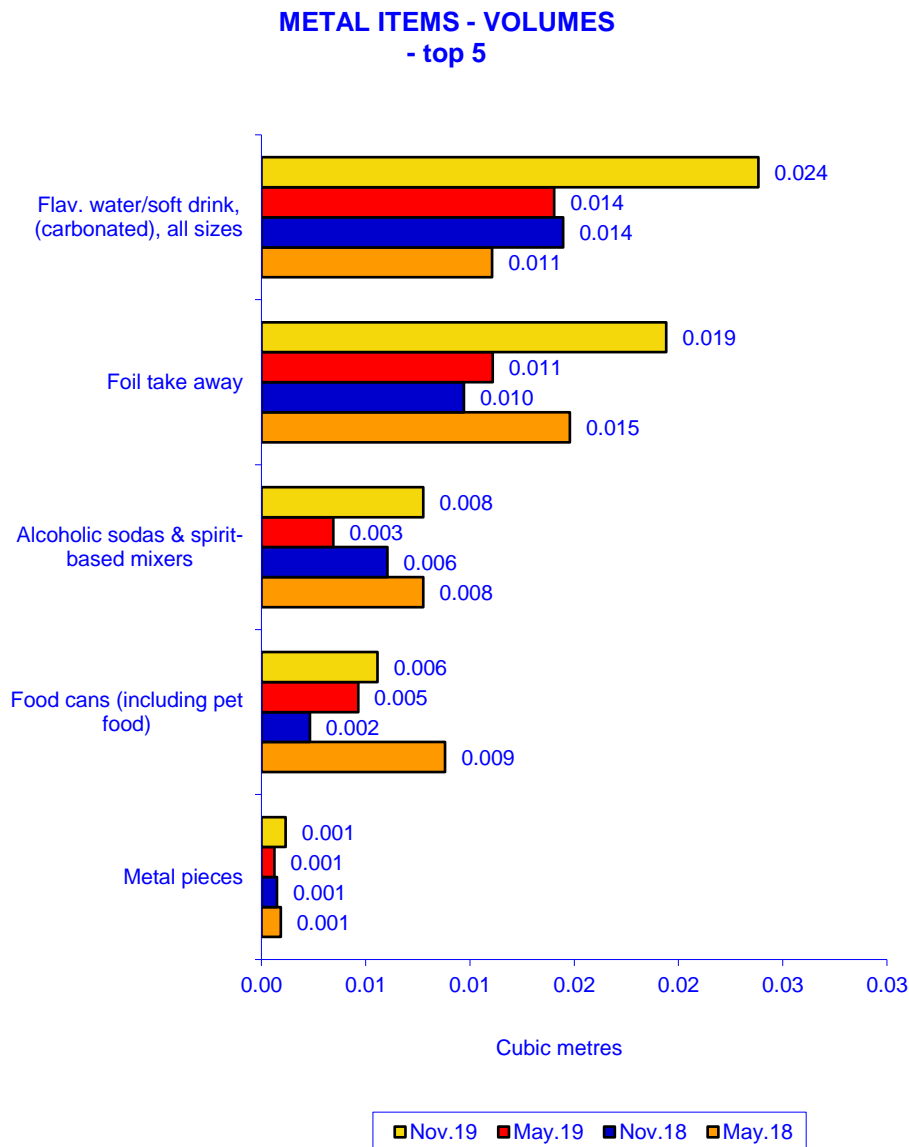
- Metal bottle tops and can pull rings (270 items, up from 176 items in Wave 77)
- Other foil (197 items, up from 125 items in Wave 77)
- Metal pieces (110 items, up from 59 items in Wave 77)
- Flavoured water/soft drink (carbonated), all sizes (56 items, up from 33 items in Wave 77)
- Foil take away (42 items, up from 24 items in Wave 77)



Volume

Metal litter items accounted for a total estimated litter volume of 0.061m³ (up from 0.044m³ in Wave 77). The metal items associated with the largest estimated volumes of litter during Wave 78 included:

- Flavoured water/soft drink (carbonated), all sizes (0.024m³, up from 0.014m³ in Wave 77)
- Foil take away (0.019m³, up from 0.011m³ in Wave 77)
- Alcoholic sodas & spirit-based mixers (0.008m³, up from 0.003m³ in Wave 77)
- Food cans (including pet food) (0.006m³, up from 0.005m³ in Wave 77)
- Metal pieces (0.001m³, unchanged from 0.001m³ in Wave 77)

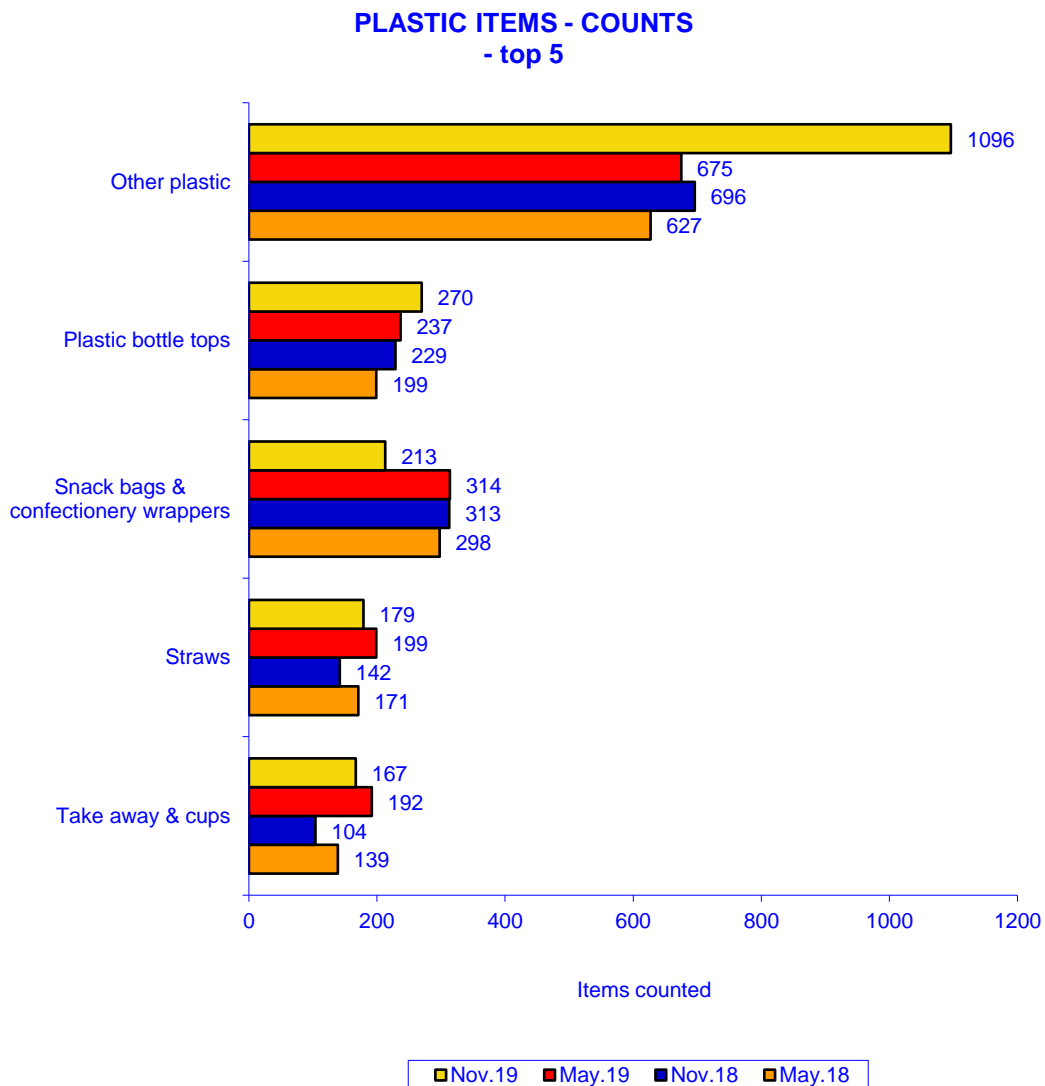


3.3 Plastic

Items

A total of 2,297 plastic litter items (up from 2,069 items in Wave 77) were counted during Wave 78. The most frequently counted plastic litter items included:

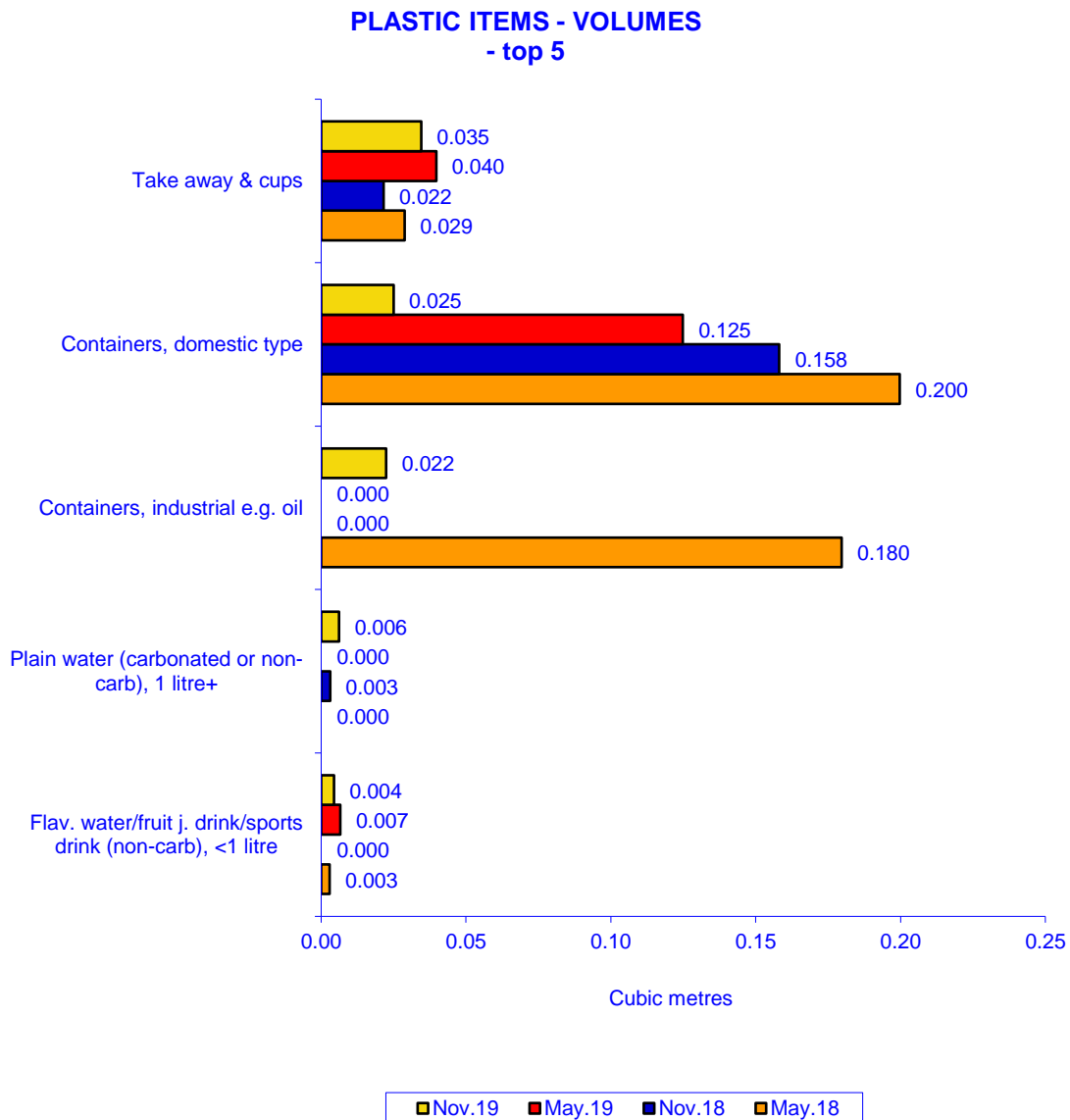
- Other plastic (1,096 items, up from 675 items in Wave 77)
- Plastic bottle tops (270 items, up from 237 items in Wave 77)
- Snack bags & confectionery wrappers (213 items, down from 314 items in Wave 77)
- Straws (179 items, down from 199 items in Wave 77)
- Take away & cups (167 items, down from 192 items in Wave 77)



Volume

Plastic items were associated with an estimated litter volume of 0.121m³ (down from 0.242m³ in Wave 77). Items which represented the largest volumes within the Wave 78 litter count included:

- Take away & cups (0.035m³, down from 0.040m³ in Wave 77)
- Containers, domestic type (0.025m³, down from 0.125m³ in Wave 77)
- Containers, industrial type (0.022m³, up from nil in Wave 77)
- Plain water carbonated or non-carbonated, 1 litre+ (0.006m³, up from nil in Wave 77)
- Flavoured water/soft drink (non-carbonated), <1 litre (0.004m³, down from 0.007m³ in Wave 77)



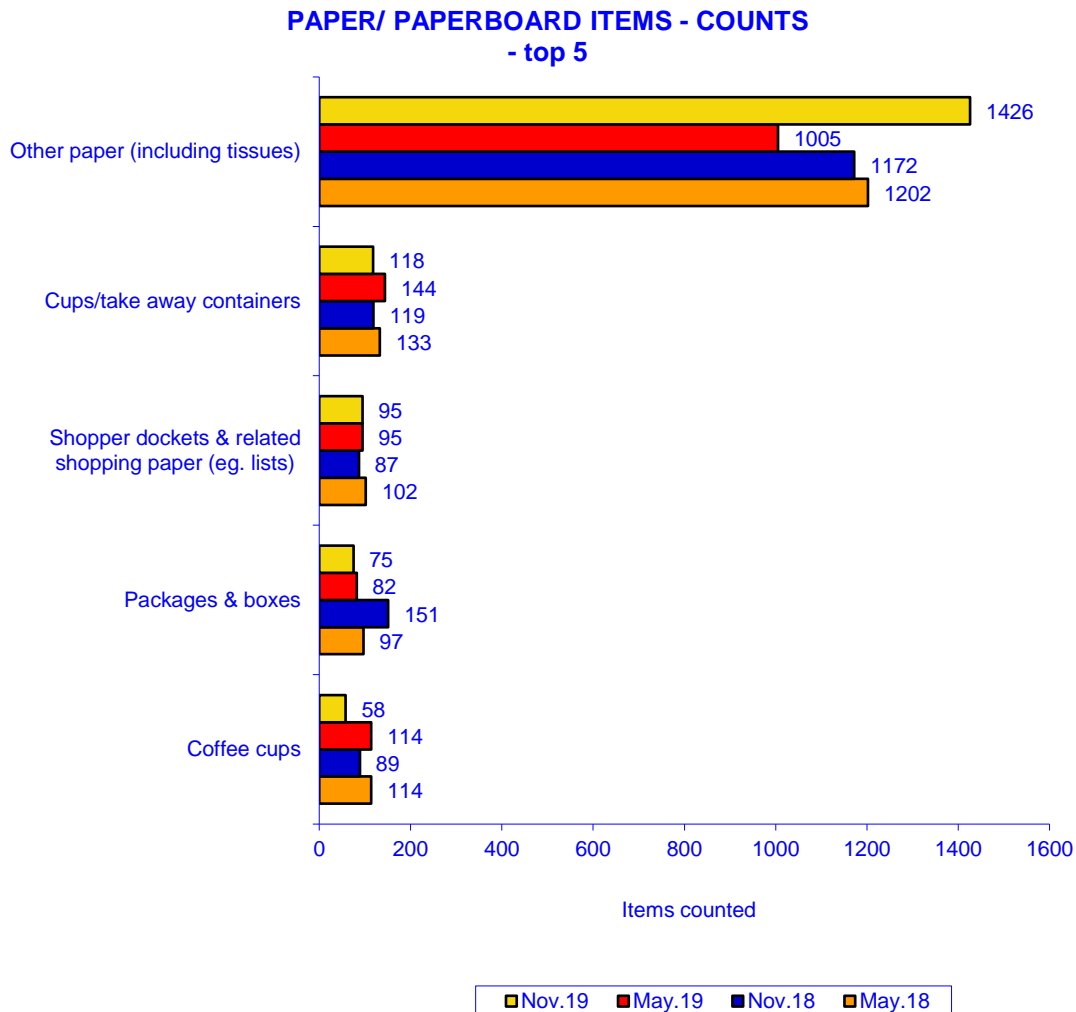
3.4 Paper/ Paperboard

Items

A total of 1,999 paper/paperboard litter items (up from 1,743 items in Wave 77) were recorded during Wave 78.

The most frequently identified items within this material type were:

- Other paper – including tissues (1,426 items, up from 1,005 items in Wave 77)
- Cups/ take away containers (118 items, down from 144 items in Wave 77)
- Shopper docket & related shopping paper (e.g. lists) (95 items, unchanged from 95 items in Wave 77)
- Packages & boxes (75 items, down from 82 items in Wave 77)
- Coffee cups (58 items, down from 114 items in Wave 77)



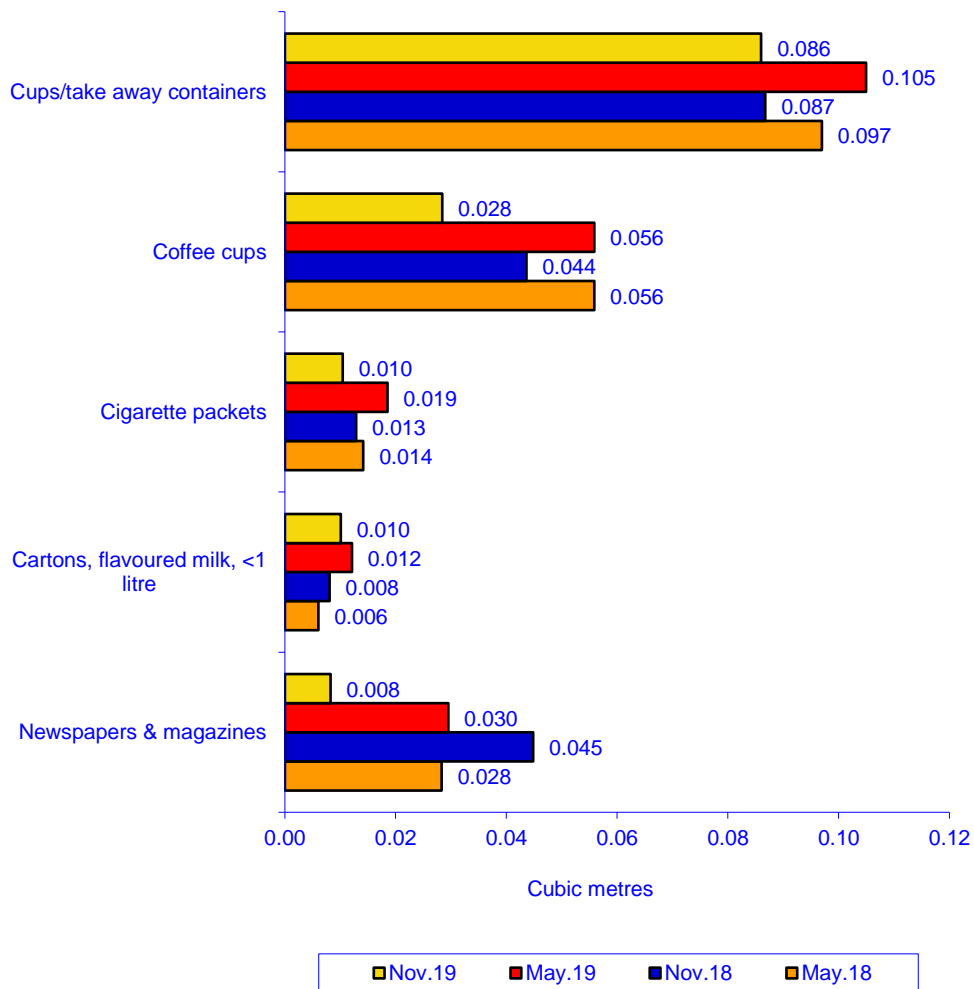
Volume

Paper/ Paperboard items accounted for 0.168m³ in estimated litter volume (down from 0.245m³ in Wave 77) in November 2019.

Paper/ paperboard items which contributed the largest volumes to the total included:

- Cups/take away containers (0.086m³, down from 0.105m³ in Wave 77)
- Coffee cups (0.028m³, down from 0.056m³ in Wave 77)
- Cigarette packets (0.010m³, down from 0.019m³ in Wave 77)
- Cartons, flavoured milk, < 1 litre (0.010m³, down from 0.012m³ in Wave 77)
- Newspapers & magazines (0.008m³, down from 0.030m³ in Wave 77)

**PAPER/ PAPERBOARD ITEMS - VOLUMES
- top 5**



3.5 Miscellaneous

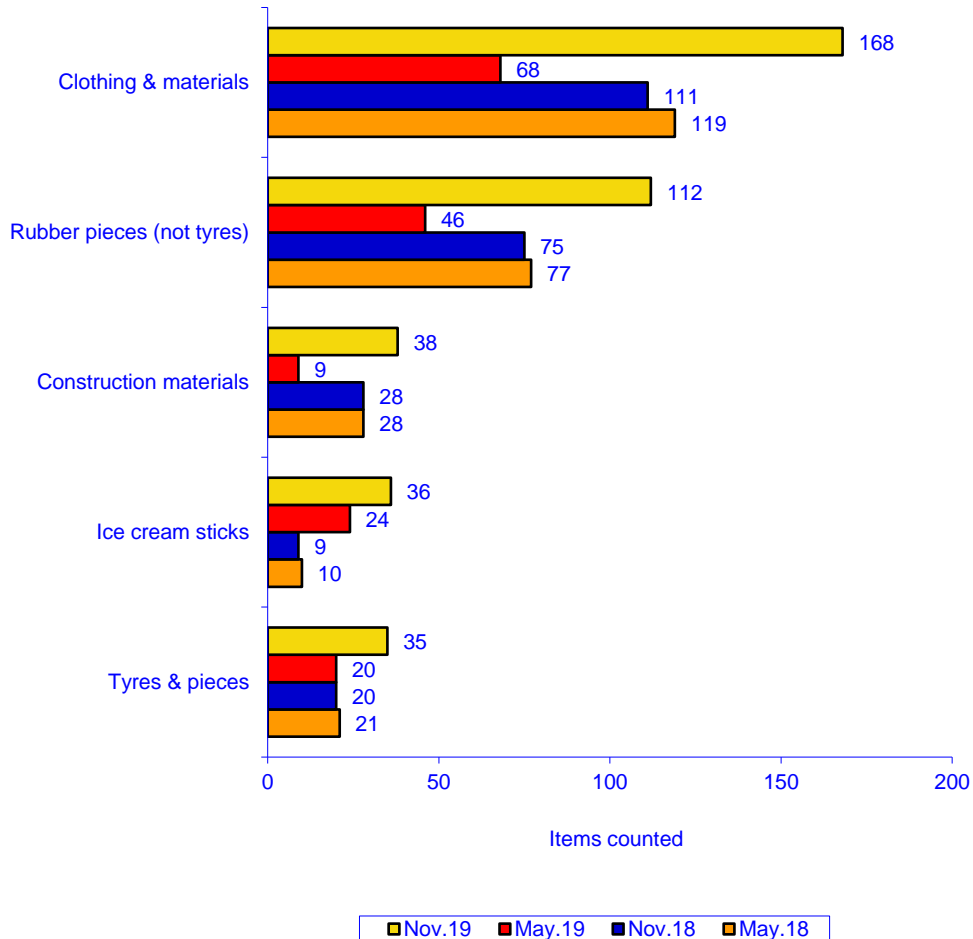
Items

A total of 444 miscellaneous items (up from 215 items in Wave 77) were counted during Wave 78.

The most frequently recorded items included:

- Clothing & materials (168 items, up from 68 items in Wave 77)
- Rubber pieces – not tyres (112 items, up from 46 items in Wave 77)
Rubber pieces in this category include vehicle rubber mouldings, hose pipes and tubing, bicycle handlebar grips and casings, pram mouldings and strips.
- Construction materials (38 items, up from 9 items in Wave 77)
- Ice cream sticks (36 items, up from 24 items in Wave 77)
- Tyres & pieces (35 items, up from 20 items in Wave 77)

MISCELLANEOUS ITEMS - COUNTS
- top 5



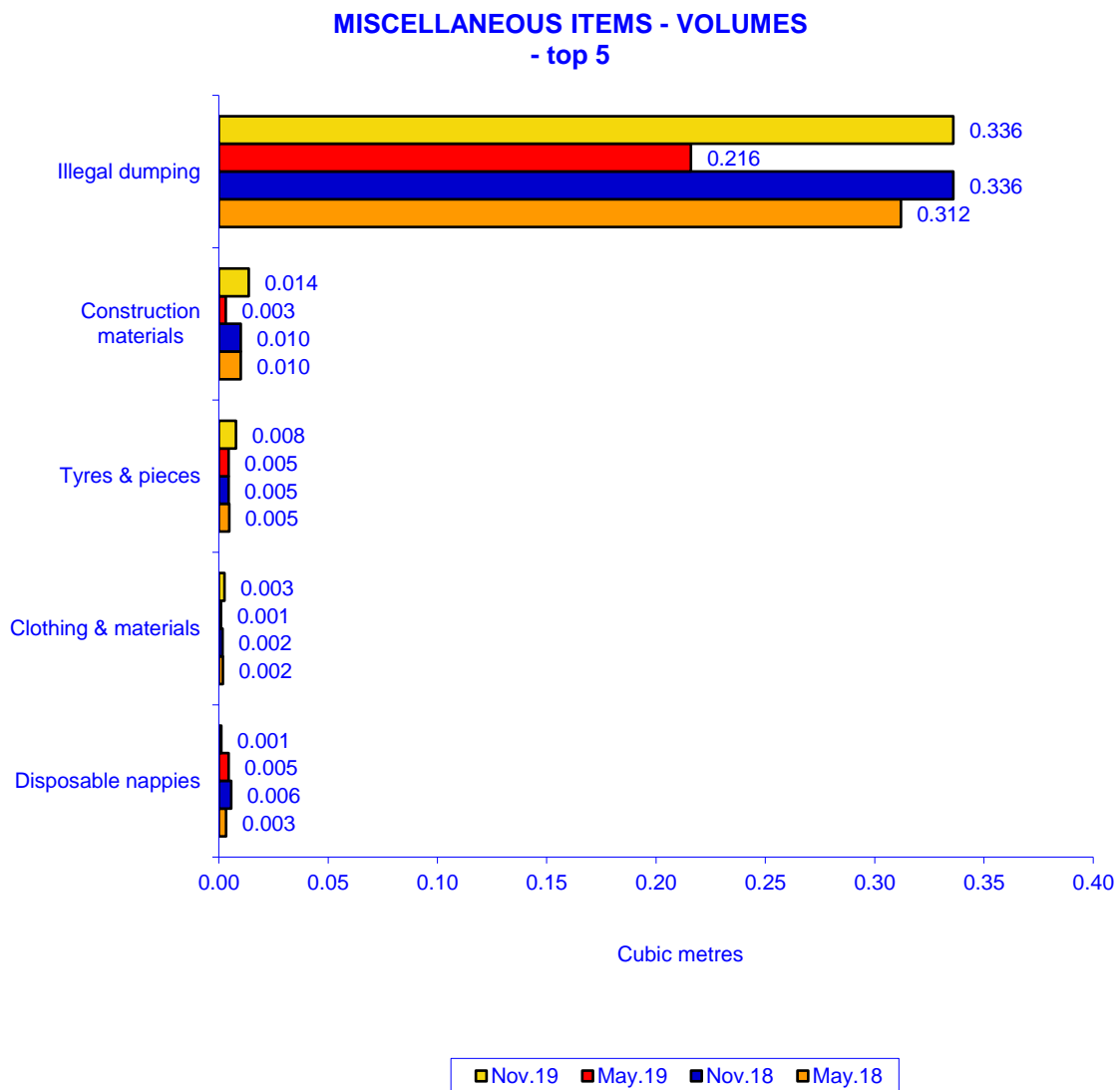
Volume

Miscellaneous litter was associated with an estimated litter volume of 0.362m³ (up from 0.230m³ in Wave 77) during Wave 78.

Illegal dumping remained the major contributor to the total volume of miscellaneous items, with an estimated total volume of 0.336m³ (up from 0.216m³ in Wave 77).

Other miscellaneous items which contributed to the litter stream volume included:

- Construction materials (0.014m³, up from 0.003m³ in Wave 77)
- Tyres & pieces (0.008m³, up from 0.005m³ in Wave 77)
- Clothing and materials (0.003m³, up from 0.002m³ in Wave 77)
- Disposable nappies (0.001m³, down from 0.006m³ in Wave 77)



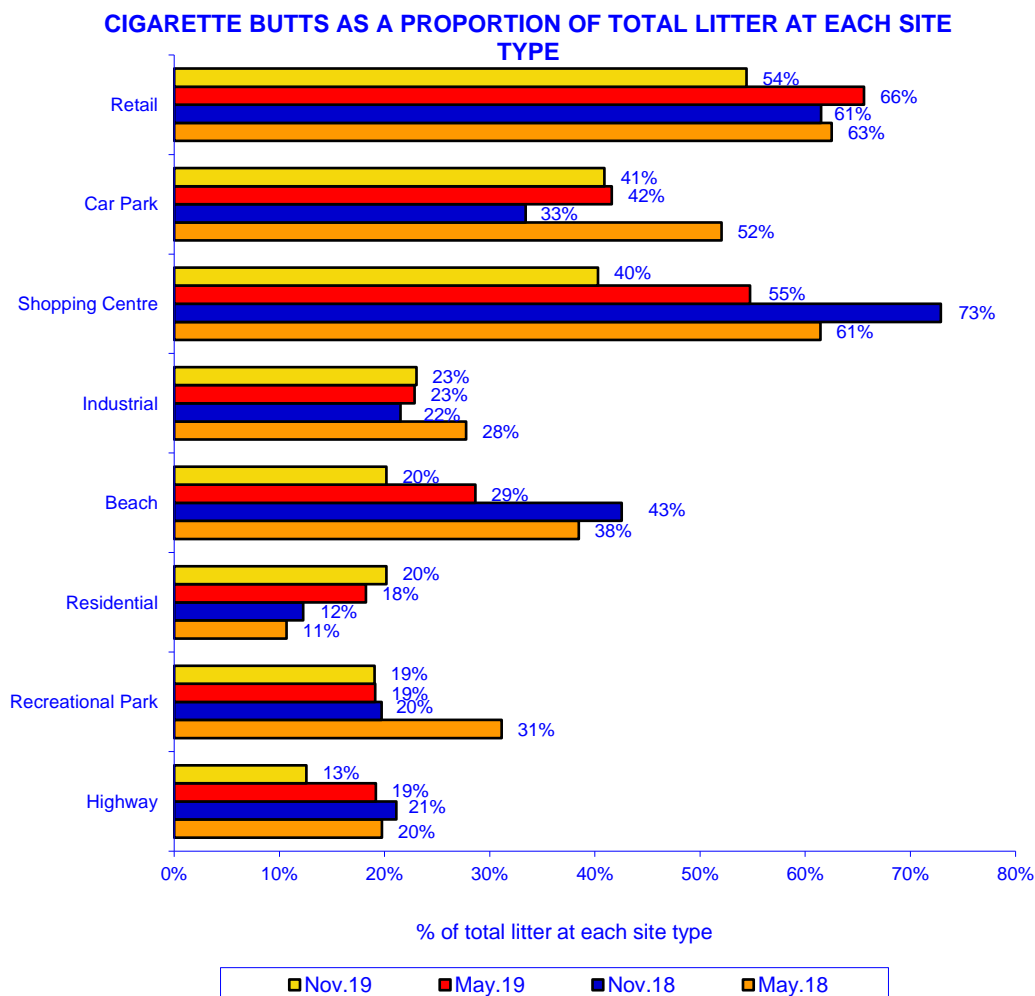
3.6 Cigarette Butts

Items

The total number of cigarette butts recorded during Wave 78 was 2,232, up from 2,209 in Wave 77 and also 2,527 in Wave 76 at the same time the previous year.

The proportion of cigarette butts against the total number of litter items was highest at Retail sites (54%, down from 66% in Wave 77). Cigarette butts also contributed the following proportions of total litter at the following site types:

- Car parks (41%, down from 42% in Wave 77)
- Shopping centres (40%, down from 55% in Wave 77)
- Industrial sites (23%, unchanged from 23% in Wave 77)
- Beaches (20%, down from 29% in Wave 77)
- Residential sites (20%, up from 18% in Wave 77)
- Recreational parks (19%, unchanged from 19% in Wave 77)
- Highway sites (13%, down from 19% in Wave 77)



Volume

Despite cigarette butts being the most numerous type of litter item, they accounted for less than 1% of the total volume of litter recorded during the current Wave.

3.7 Dispersion of Litter by Site Type

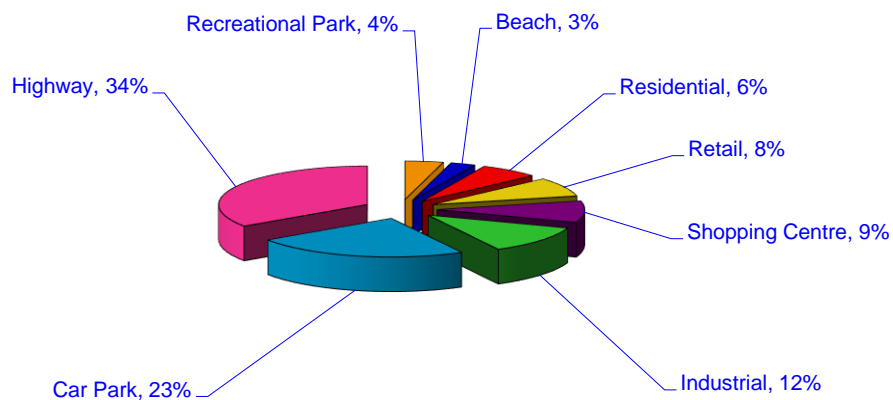
Items

Highways remained the most significant contributor to the total number of litter items counted in November 2019 with 34% (unchanged from 34% in Wave 77) of the total litter items counted at highway locations.

Other sites contributed the following proportions of the total number of litter items counted during Wave 78:

- Car Park (23%, up from 17% in Wave 77)
- Industrial (12%, down from 14% in Wave 77)
- Shopping Centre (9%, down from 13% in Wave 77)
- Retail (8%, unchanged from 8% in from Wave 77)
- Residential (6%, down from 7% in Wave 77)
- Recreational Park (4%, up from 3% in Wave 77)
- Beach (3%, down from 4% from Wave 77)

PROPORTION OF TOTAL LITTER ITEMS COUNTED WITHIN SITE TYPE



A comparison of the proportions of litter items found at each site type revealed that highway locations and car parks contributed large amounts to the total number of litter items in the May Monitor, based on the proportion of the number of these sites as outlined below:

- Highway sites represented only 18% of the total number of sites surveyed and contributed 34% (unchanged from 34% in Wave 77) of the total litter items counted in Wave 78.
- Car parks incorporated 15% of the sites surveyed and contributed 23% (up from 17% in Wave 77) of the litter items counted in Wave 78.

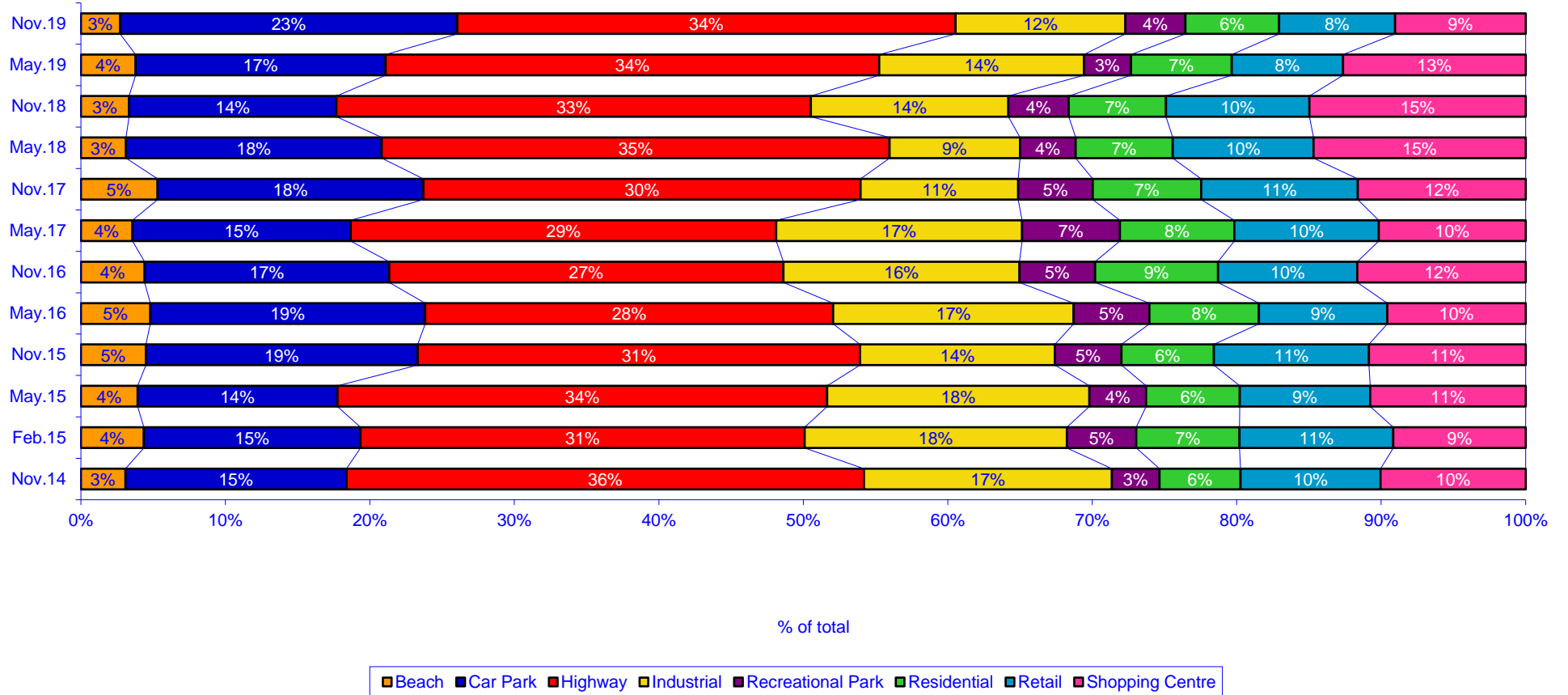
Conversely, residential locations and beaches contributed smaller proportions of litter items to the total litter count than anticipated based upon the proportion of these sites within the overall sample of locations as detailed below:

- Residential areas incorporated 17% of the sites surveyed but contributed only 6% (down from 7% in Wave 77) of the litter items counted in Wave 78.
- Beaches represented 11% of the sites surveyed but contributed only 3% (down from 4% in Wave 77) of the litter counted in Wave 78.

The remaining sites contributed around the expected proportions of litter based on the proportion of these sites among the overall number of sites counted during May 2019, the proportions were:

- Industrial sites incorporated 11% of the sites surveyed and contributed 12% (down from 14% in Wave 77) of the total litter items counted in Wave 78.
- Retail areas - incorporated 10% of the sites surveyed and contributed 8% (unchanged from 8% in Wave 77) of the litter items counted in Wave 78.
- Shopping centres - incorporated 9% of the sites surveyed and contributed 9% (down from 13% in Wave 77) of the litter items counted in Wave 78.
- Recreational Parks represented 9% of sites surveyed and contributed 4% (up from 3% in Wave 77) of the litter counted in Wave 78.

PROPORTION OF TOTAL LITTER ITEMS COUNTED WITHIN SITE TYPE
- tracking -

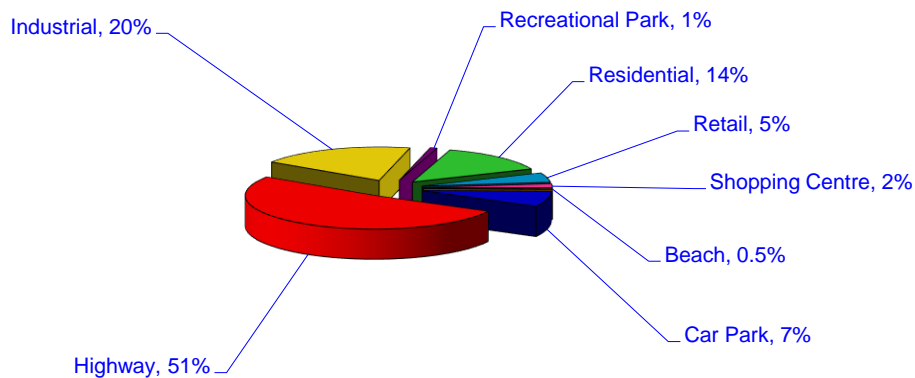


Volume

Just over half (51%, up from 45% in Wave 77) of the total volume of litter estimated during Wave 78 was associated with litter items in highway locations, while one fifth (20%, down from 34% in Wave 77) was associated with litter items in industrial sites.

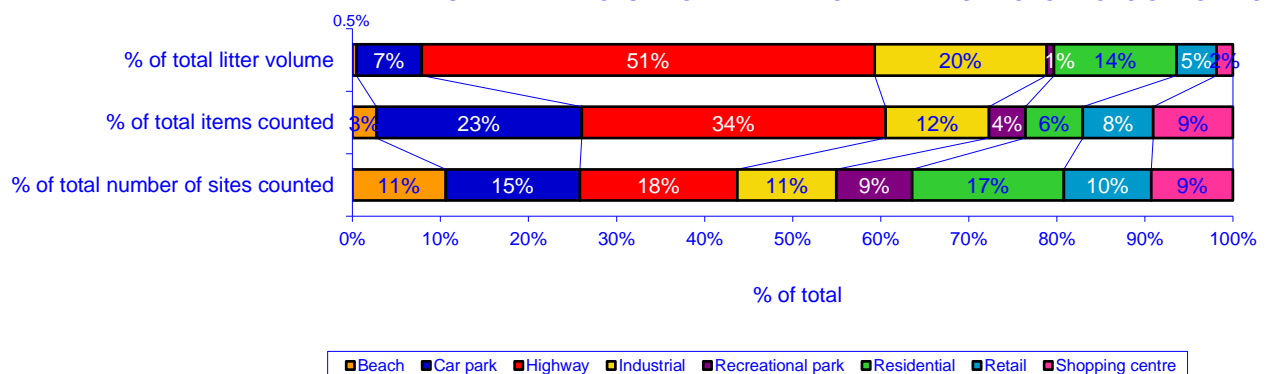
Lower volumes of litter were contributed to the total litter volume by residential sites (14%, up from 4% in Wave 77), car park sites (7%, up from 10% in Wave 77), retail sites (5%, up from 0.5% in Wave 77), shopping centres (2%, down from 3% in Wave 77), recreational park sites (1%, unchanged from 1% in Wave 77) and beaches (0.5%, down from 1% in Wave 77) during Wave 78.

PROPORTION OF TOTAL LITTER VOLUME BY SITE TYPE



A comparison of the litter volume, number of litter items and proportion of sites represented within location types shows that highway locations contributed a larger number and volume of litter items than would be expected given their representations within the sample.

NUMBER AND VOLUME OF LITTER BY SITE TYPE AS PROPORTIONS OF TOTALS



3.8 CDL Beverage Containers

The majority (98%, up from 97% in Wave 77) of litter items counted in November 2019 were non-beverage items.

The total number of CDL beverage containers counted was 172 items, up from 218 items in Wave 77.

CDL beverage containers accounted for 96% (up from 94% in Wave 77) of all beverage containers counted during Wave 78.

Data Summary - Items

KESAB - Litter Strategy Monitoring Wave 78 - November 2019			Items										
			BEACH	CAR PARK	HIGHWAY	INDUSTRIAL	RECREATIONAL PARK	RESIDENTIAL	RETAIL	SHOPPING CENTRE	METROPOLITAN	REGIONAL	TOTAL ITEMS
CIGARETTE BUTTS		NBEV	45	783	356	222	65	104	358	299	1765	467	2232
GLASS	Alcoholic sodas/spirit-based mixers, all sizes	CDL	0	0	1	0	0	0	0	0	1	0	1
	Beer, all colours of glass, <750ml	CDL	0	2	16	3	0	2	2	0	23	2	25
	Beer, all colours of glass, 750ml+	CDL	0	0	0	0	0	0	0	0	0	0	0
	Cider/fruit based etc.	CDL	0	0	0	0	0	0	0	0	0	0	0
	Flav. water/fruit j. drink/sports drink (non-carb), <1 litre	CDL	0	0	0	0	0	0	1	0	1	0	1
	Flav. water/fruit j. drink/sports drink (non-carb), 1 litre+	CDL	0	0	0	0	0	0	0	0	0	0	0
	Flav. water/soft drink (carbonated), <1 litre	CDL	0	0	8	6	0	0	0	0	2	12	14
	Flav. water/soft drink (carbonated), 1 litre+	CDL	0	0	0	0	0	1	0	0	1	0	1
	Fruit juice, <1 litre	CDL	0	0	0	0	0	0	1	0	1	0	1
	Fruit juice, 1 litre+	BEV	0	0	0	0	0	0	0	0	0	0	0
	Other glass	NBEV	12	67	314	56	2	16	9	2	463	15	478
	Plain water (carbonated or non-carb), <1 litre	CDL	0	0	0	0	0	0	0	0	0	0	0
	Plain water (carbonated or non-carb), 1 litre+	CDL	0	0	0	0	0	0	0	0	0	0	0
	Wine & spirit, all sizes	BEV	0	0	0	0	0	3	0	0	3	0	3
Wine cooler, all sizes	CDL	0	0	0	0	0	0	0	0	0	0	0	
TOTAL			12	69	339	65	2	22	13	2	495	29	524
METAL	Aerosols - pressure packs	NBEV	0	0	1	0	0	0	0	0	1	0	1
	Alcoholic sodas & spirit-based mixers	CDL	0	3	12	2	0	0	0	1	18	0	18
	Beer, aluminium, all types, all sizes	CDL	0	1	1	0	0	0	0	0	2	0	2
	Cider/fruit based etc.	CDL	0	0	0	1	0	0	0	0	1	0	1
	Flav. water/soft drink, (carbonated), all sizes	CDL	0	4	47	3	1	0	1	0	51	5	56
	Flav. water/soft drink, (non-carb), all sizes	CDL	0	0	0	0	0	0	0	0	0	0	0
	Foil take away	NBEV	0	0	23	12	4	0	1	2	29	13	42
	Food cans (including pet food)	NBEV	0	1	5	6	0	0	0	0	11	1	12
	Industrial cans - all types	NBEV	0	0	0	0	0	0	0	0	0	0	0
	Metal bottle tops and can pull rings	NBEV	5	46	113	47	13	12	12	22	245	25	270
	Metal pieces	NBEV	2	15	43	28	0	9	8	5	100	10	110
	Other foil	NBEV	7	60	42	14	13	20	24	17	186	11	197
	TOTAL			14	130	287	113	31	41	46	47	644	65

KESAB - Litter Strategy Monitoring Wave 78 - November 2019			Items										
			BEACH	CAR PARK	HIGHWAY	INDUSTRIAL	RECREATIONAL PARK	RESIDENTIAL	RETAIL	SHOPPING CENTRE	METROPOLITAN	REGIONAL	TOTAL ITEMS
MISCELLANEOUS	Clothing & materials	NBEV	4	21	92	27	6	13	3	2	113	55	168
	Condoms	NBEV	0	0	0	0	0	0	0	0	0	0	0
	Construction materials	NBEV	0	0	12	14	0	12	0	0	33	5	38
	Disposable nappies	NBEV	0	0	0	0	0	1	0	0	0	1	1
	Ice cream sticks	NBEV	3	13	2	2	7	5	1	3	27	9	36
	Illegal dumping	NBEV	0	0	6	4	0	3	1	0	8	6	14
	Other miscellaneous	NBEV	0	10	11	7	2	1	1	1	15	18	33
	Rubber pieces (not tyres)	NBEV	1	12	57	14	5	15	3	5	98	14	112
	Syringes	NBEV	0	3	0	4	0	0	0	0	7	0	7
	Tyres & pieces	NBEV	0	0	33	2	0	0	0	0	33	2	35
TOTAL			8	59	213	74	20	50	9	11	334	110	444
PAPER/PAPERBOARD	Cartons, flavoured milk, <1 litre	CDL	0	0	11	2	0	1	0	1	11	4	15
	Cartons, flavoured milk, 1 litre+	BEV	0	0	0	0	0	0	0	0	0	0	0
	Cartons, fruit juice, <1 litre	CDL	0	0	0	0	0	0	0	0	0	0	0
	Cartons, fruit juice, 1 litre+	BEV	0	0	0	0	0	0	0	0	0	0	0
	Cartons, milk, plain (white), all sizes	BEV	0	1	2	0	0	0	0	0	1	2	3
	Cigarette packets	NBEV	0	6	21	11	0	1	2	7	41	7	48
	Cups/take away containers	NBEV	1	30	70	6	1	3	2	5	70	48	118
	Coffee cups	NBEV	0	5	41	6	0	1	1	4	39	19	58
	Flav. water/fruit j. drink/sports drink (non-carb), <1 litre	CDL	0	0	0	0	0	0	0	0	0	0	0
	Flav. water/fruit j. drink/sports drink (non-carb), 1 litre+	CDL	0	0	2	0	0	0	0	0	0	2	2
	Ice cream wrappers	NBEV	0	6	9	0	0	1	1	0	15	2	17
	Junk mail/free circulars	NBEV	0	0	11	14	0	1	1	5	26	6	32
	Newspapers & magazines	NBEV	0	1	2	2	0	2	0	0	5	2	7
	Other paper (including tissues)	NBEV	54	330	562	128	70	106	75	101	1288	138	1426
	Packages & boxes	NBEV	0	7	43	18	3	2	1	1	37	38	75
	Paper bags	NBEV	0	5	24	11	0	2	0	8	31	19	50
Shopper docketts & related shopping paper (eg. lists)	NBEV	1	27	7	4	0	3	10	43	83	12	95	
Tickets, e.g. bus, ATM, vending machine etc.	NBEV	1	9	0	1	5	2	7	28	47	6	53	
TOTAL			57	427	805	203	79	125	100	203	1694	305	1999

KESAB - Litter Strategy Monitoring Wave 78 - November 2019			Items										
			BEACH	CAR PARK	HIGHWAY	INDUSTRIAL	RECREATIONAL PARK	RESIDENTIAL	RETAIL	SHOPPING CENTRE	METROPOLITAN	REGIONAL	TOTAL ITEMS
PLASTIC	6 ring can holders	NBEV	0	0	0	1	0	0	0	0	1	0	1
	Bags - heavier glossy typically branded carry bags	NBEV	0	2	2	3	0	2	0	0	4	5	9
	Bags - supermarket type light weight carry bags	NBEV	3	2	21	4	0	1	1	5	31	6	37
	Bread bag tags	NBEV	1	6	1	0	9	1	3	7	18	10	28
	Containers, domestic type	NBEV	0	1	1	0	0	1	0	0	1	2	3
	Containers, industrial e.g. oil	NBEV	0	0	1	0	0	0	0	0	0	1	1
	Drink pouches	CDL	0	1	2	1	0	0	0	0	4	0	4
	Flav. water/fruit j. drink/sports drink (non-carb), <1 litre	CDL	1	0	1	0	2	1	1	0	6	0	6
	Flav. water/fruit j. drink/sports drink (non-carb), 1 litre+	CDL	0	0	0	0	0	0	0	0	0	0	0
	Flav. water/soft drink (carbonated), <1 litre	CDL	0	0	3	3	0	0	1	0	6	1	7
	Flav. water/soft drink (carbonated), 1 litre+	CDL	0	0	1	0	0	0	0	0	0	1	1
	Flavoured milk, <1 litre	CDL	0	0	5	2	0	0	0	1	4	4	8
	Flavoured milk, 1 litre+	BEV	0	0	0	0	0	0	0	0	0	0	0
	Fruit juice, <1 litre	CDL	0	1	0	0	0	0	0	0	1	0	1
	Fruit juice, 1 litre+	BEV	0	0	0	0	0	1	0	0	1	0	1
	Lollipop sticks	NBEV	8	29	8	2	17	2	7	15	72	16	88
	Other plastic	NBEV	43	189	427	141	63	118	57	58	1026	70	1096
	Packing tape & straps	NBEV	2	12	39	13	1	2	0	2	65	6	71
	Plain water (carbonated or non-carb), <1 litre	CDL	0	0	3	1	0	0	0	0	4	0	4
	Plain water (carbonated or non-carb), 1 litre+	CDL	0	0	4	0	0	0	0	0	3	1	4
	Plastic bottle tops	NBEV	10	50	90	54	12	22	11	21	245	25	270
	Sacks - sheeting - other bags	NBEV	0	1	7	1	0	2	0	0	1	10	11
	Snack bags & confectionery wrappers	NBEV	9	39	58	19	18	19	28	23	178	35	213
	Spoons/cutlery	NBEV	1	21	5	4	1	4	6	5	41	6	47
	Straws	NBEV	4	52	46	13	16	6	6	36	149	30	179
	Styrene foam boxes, sheets, etc.	NBEV	0	2	25	7	2	1	2	0	37	2	39
	Take away & cups	NBEV	5	38	79	18	3	8	9	7	128	39	167
White milk, all sizes	BEV	0	0	1	0	0	0	0	0	1	0	1	
Wine cask bladders	BEV	0	0	0	0	0	0	0	0	0	0	0	
TOTAL			87	446	830	287	144	191	132	180	2027	270	2297
GRAND TOTAL			223	1914	2830	964	341	533	658	742	6959	1246	8205

Data Summary - Volumes

KESAB - Litter Strategy Monitoring Wave 78 - November 2019		Volume - Cubic Metres											
		BEACH	CAR PARK	HIGHWAY	INDUSTRIAL	RECREATIONAL PARK	RESIDENTIAL	RETAIL	SHOPPING CENTRE	METROPOLITAN	REGIONAL	TOTAL ITEMS	
CIGARETTE BUTTS		NBEV	0.000005	0.000090	0.000041	0.000026	0.000007	0.000012	0.000041	0.000034	0.000020	0.000054	0.000257
GLASS	Alcoholic sodas/spirit-based mixers, all sizes	CDL	0.000000	0.000000	0.000374	0.000000	0.000000	0.000000	0.000000	0.000000	0.000374	0.000000	0.000374
	Beer, all colours of glass, <750ml	CDL	0.000000	0.000926	0.007407	0.001389	0.000000	0.000926	0.000926	0.000000	0.010647	0.000926	0.011573
	Beer, all colours of glass, 750ml+	CDL	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
	Cider/fruit based etc.	CDL	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
	Flav. water/fruit j. drink/sports drink (non-carb), <1 litre	CDL	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000554	0.000000	0.000554	0.000000	0.000554
	Flav. water/fruit j. drink/sports drink (non-carb), 1 litre+	CDL	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
	Flav. water/soft drink (carbonated), <1 litre	CDL	0.000000	0.000000	0.003167	0.002375	0.000000	0.000000	0.000000	0.000000	0.000792	0.004750	0.005542
	Flav. water/soft drink (carbonated), 1 litre+	CDL	0.000000	0.000000	0.000000	0.000000	0.000000	0.001277	0.000000	0.000000	0.001277	0.000000	0.001277
	Fruit juice, <1 litre	CDL	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000424	0.000000	0.000424	0.000000	0.000424
	Fruit juice, 1 litre+	BEV	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
	Other glass	NBEV	0.000236	0.001316	0.006167	0.001100	0.000039	0.000314	0.000177	0.000039	0.009093	0.000295	0.009388
	Plain water (carbonated or non-carb), <1 litre	CDL	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
	Plain water (carbonated or non-carb), 1 litre+	CDL	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
	Wine & spirit, all sizes	BEV	0.000000	0.000000	0.000000	0.000000	0.000000	0.002674	0.000000	0.000000	0.002674	0.000000	0.002674
	Wine cooler, all sizes	CDL	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
TOTAL			0.000236	0.002242	0.017115	0.004864	0.000039	0.005192	0.002081	0.000039	0.025836	0.005971	0.031807
METAL	Aerosols - pressure packs	NBEV	0.000000	0.000000	0.000684	0.000000	0.000000	0.000000	0.000000	0.000000	0.000684	0.000000	0.000684
	Alcoholic sodas & spirit-based mixers	CDL	0.000000	0.001294	0.005177	0.000863	0.000000	0.000000	0.000000	0.000431	0.007765	0.000000	0.007765
	Beer, aluminium, all types, all sizes	CDL	0.000000	0.000431	0.000431	0.000000	0.000000	0.000000	0.000000	0.000000	0.000863	0.000000	0.000863
	Cider/fruit based etc.	CDL	0.000000	0.000000	0.000000	0.000431	0.000000	0.000000	0.000000	0.000431	0.000000	0.000000	0.000431
	Flav. water/soft drink, (carbonated), all sizes	CDL	0.000000	0.001702	0.020000	0.001277	0.000426	0.000000	0.000426	0.000000	0.021702	0.002128	0.023830
	Flav. water/soft drink, (non-carb), all sizes	CDL	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
	Foil take away	NBEV	0.000000	0.000000	0.010635	0.005549	0.001850	0.000000	0.000462	0.000925	0.013409	0.006011	0.019420
	Food cans (including pet food)	NBEV	0.000000	0.000464	0.002319	0.002783	0.000000	0.000000	0.000000	0.000000	0.005102	0.000464	0.005566
	Industrial cans - all types	NBEV	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
	Metal bottle tops and can pull rings	NBEV	0.000020	0.000184	0.000452	0.000188	0.000052	0.000048	0.000048	0.000088	0.000980	0.000100	0.001080
	Metal pieces	NBEV	0.000021	0.000159	0.000456	0.000297	0.000000	0.000095	0.000085	0.000053	0.001060	0.000106	0.001166
	Other foil	NBEV	0.000011	0.000094	0.000066	0.000022	0.000020	0.000031	0.000037	0.000027	0.000290	0.000017	0.000307
	TOTAL			0.000052	0.004328	0.040220	0.011409	0.002347	0.000175	0.001058	0.001524	0.052287	0.008826

KESAB - Litter Strategy Monitoring Wave 78 - November 2019			Volume - Cubic Metres										
			BEACH	CAR PARK	HIGHWAY	INDUSTRIAL	RECREATIONAL PARK	RESIDENTIAL	RETAIL	SHOPPING CENTRE	METROPOLITAN	REGIONAL	TOTAL ITEMS
MISCELLANEOUS	Clothing & materials	NBEV	0.000061	0.000321	0.001408	0.000413	0.000092	0.000199	0.000046	0.000031	0.001729	0.000842	0.002570
	Condoms	NBEV	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
	Construction materials	NBEV	0.000000	0.000000	0.004320	0.005040	0.000000	0.004320	0.000000	0.000000	0.011880	0.001800	0.013680
	Disposable nappies	NBEV	0.000000	0.000000	0.000000	0.000000	0.000000	0.001125	0.000000	0.000000	0.000000	0.001125	0.001125
	Ice cream sticks	NBEV	0.000003	0.000012	0.000002	0.000002	0.000006	0.000005	0.000001	0.000003	0.000025	0.000008	0.000033
	Illegal dumping	NBEV	0.000000	0.000000	0.144000	0.096000	0.000000	0.072000	0.024000	0.000000	0.192000	0.144000	0.336000
	Other miscellaneous	NBEV	0.000000	0.000135	0.000149	0.000095	0.000027	0.000014	0.000014	0.000014	0.000203	0.000243	0.000446
	Rubber pieces (not tyres)	NBEV	0.000000	0.000002	0.000009	0.000002	0.000001	0.000002	0.000000	0.000001	0.000016	0.000002	0.000018
	Syringes	NBEV	0.000000	0.000007	0.000000	0.000009	0.000000	0.000000	0.000000	0.000000	0.000016	0.000000	0.000016
	Tyres & pieces	NBEV	0.000000	0.000000	0.007425	0.000450	0.000000	0.000000	0.000000	0.000000	0.007425	0.000450	0.007875
TOTAL			0.000064	0.000477	0.157312	0.102011	0.000126	0.077664	0.024061	0.000048	0.213293	0.148470	0.361763
PAPER/PAPERBOARD	Cartons, flavoured milk, <1 litre	CDL	0.000000	0.000000	0.007397	0.001345	0.000000	0.000672	0.000000	0.000672	0.007397	0.002690	0.010087
	Cartons, flavoured milk, 1 litre+	BEV	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
	Cartons, fruit juice, <1 litre	CDL	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
	Cartons, fruit juice, 1 litre+	BEV	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
	Cartons, milk, plain (white), all sizes	BEV	0.000000	0.001013	0.002025	0.000000	0.000000	0.000000	0.000000	0.000000	0.001013	0.002025	0.003038
	Cigarette packets	NBEV	0.000000	0.001307	0.004575	0.002397	0.000000	0.000218	0.000436	0.001525	0.008933	0.001525	0.010458
	Cups/take away containers	NBEV	0.000729	0.021869	0.051027	0.004374	0.000729	0.002187	0.001458	0.003645	0.051027	0.034990	0.086016
	Coffee cups	NBEV	0.000000	0.002450	0.020091	0.002940	0.000000	0.000490	0.000490	0.001960	0.019111	0.009310	0.028421
	Flav. water/fruit j. drink/sports drink (non-carb), <1 litre	CDL	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
	Flav. water/fruit j. drink/sports drink (non-carb), 1 litre+	CDL	0.000000	0.000000	0.004140	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.004140	0.004140
	Ice cream wrappers	NBEV	0.000000	0.000014	0.000022	0.000000	0.000000	0.000002	0.000002	0.000000	0.000036	0.000005	0.000041
	Junk mail/free circulars	NBEV	0.000000	0.000000	0.001914	0.002436	0.000000	0.000174	0.000174	0.000870	0.004524	0.001044	0.005568
	Newspapers & magazines	NBEV	0.000000	0.001180	0.002360	0.002360	0.000000	0.002360	0.000000	0.000000	0.005900	0.002360	0.008260
	Other paper (including tissues)	NBEV	0.000183	0.001115	0.001900	0.000433	0.000237	0.000358	0.000254	0.000341	0.004353	0.000466	0.004820
	Packages & boxes	NBEV	0.000000	0.000560	0.003440	0.001440	0.000240	0.000160	0.000080	0.000080	0.002960	0.003040	0.006000
	Paper bags	NBEV	0.000000	0.000053	0.000254	0.000116	0.000000	0.000021	0.000000	0.000085	0.000328	0.000201	0.000529
	Shopper docketts & related shopping paper (eg. lists)	NBEV	0.000002	0.000055	0.000014	0.000008	0.000000	0.000006	0.000020	0.000087	0.000168	0.000024	0.000193
Tickets, e.g. bus, ATM, vending machine etc.	NBEV	0.000001	0.000008	0.000000	0.000001	0.000004	0.000002	0.000006	0.000025	0.000041	0.000005	0.000047	
TOTAL			0.000914	0.029624	0.099159	0.017849	0.001210	0.006651	0.002920	0.009290	0.105791	0.061826	0.167618

KESAB - Litter Strategy Monitoring Wave 78 - November 2019			Volume - Cubic Metres										
			BEACH	CAR PARK	HIGHWAY	INDUSTRIAL	RECREATIONAL PARK	RESIDENTIAL	RETAIL	SHOPPING CENTRE	METROPOLITAN	REGIONAL	TOTAL ITEMS
PLASTIC	6 ring can holders	NBEV	0.000000	0.000000	0.000000	0.000002	0.000000	0.000000	0.000000	0.000000	0.000002	0.000000	0.000002
	Bags - heavier glossy typically branded carry bags	NBEV	0.000000	0.000175	0.000175	0.000263	0.000000	0.000175	0.000000	0.000000	0.000350	0.000438	0.000788
	Bags - supermarket type light weight carry bags	NBEV	0.000102	0.000068	0.000713	0.000136	0.000000	0.000034	0.000034	0.000170	0.001052	0.000204	0.001256
	Bread bag tags	NBEV	0.000000	0.000001	0.000000	0.000000	0.000002	0.000000	0.000001	0.000002	0.000004	0.000002	0.000006
	Containers, domestic type	NBEV	0.000000	0.008324	0.008324	0.000000	0.000000	0.008324	0.000000	0.000000	0.008324	0.016648	0.024972
	Containers, industrial e.g. oil	NBEV	0.000000	0.000000	0.022458	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.022458	0.022458
	Drink pouches	CDL	0.000000	0.000086	0.000173	0.000086	0.000000	0.000000	0.000000	0.000000	0.000345	0.000000	0.000345
	Flav. water/fruit j. drink/sports drink (non-carb), <1 litre	CDL	0.000738	0.000000	0.000738	0.000000	0.001475	0.000738	0.000738	0.000000	0.004426	0.000000	0.004426
	Flav. water/fruit j. drink/sports drink (non-carb), 1 litre+	CDL	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
	Flav. water/soft drink (carbonated), <1 litre	CDL	0.000000	0.000000	0.001866	0.001866	0.000000	0.000000	0.000622	0.000000	0.003733	0.000622	0.004355
	Flav. water/soft drink (carbonated), 1 litre+	CDL	0.000000	0.000000	0.001654	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.001654	0.001654
	Flavoured milk, <1 litre	CDL	0.000000	0.000000	0.002664	0.001065	0.000000	0.000000	0.000000	0.000533	0.002131	0.002131	0.004262
	Flavoured milk, 1 litre+	BEV	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
	Fruit juice, <1 litre	CDL	0.000000	0.000400	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000400	0.000000	0.000400
	Fruit juice, 1 litre+	BEV	0.000000	0.000000	0.000000	0.000000	0.000000	0.002137	0.000000	0.000000	0.002137	0.000000	0.002137
	Lollipop sticks	NBEV	0.000004	0.000015	0.000004	0.000001	0.000009	0.000001	0.000004	0.000008	0.000038	0.000008	0.000047
	Other plastic	NBEV	0.000054	0.000236	0.000534	0.000176	0.000079	0.000148	0.000071	0.000073	0.001283	0.000088	0.001370
	Packing tape & straps	NBEV	0.000001	0.000003	0.000011	0.000004	0.000000	0.000001	0.000000	0.000001	0.000018	0.000002	0.000019
	Plain water (carbonated or non-carb), <1 litre	CDL	0.000000	0.000000	0.002364	0.000788	0.000000	0.000000	0.000000	0.000000	0.003152	0.000000	0.003152
	Plain water (carbonated or non-carb), 1 litre+	CDL	0.000000	0.000000	0.006166	0.000000	0.000000	0.000000	0.000000	0.000000	0.004625	0.001542	0.006166
	Plastic bottle tops	NBEV	0.000080	0.000400	0.000720	0.000432	0.000096	0.000176	0.000088	0.000168	0.001961	0.000200	0.002161
	Sacks - sheeting - other bags	NBEV	0.000000	0.000000	0.000002	0.000000	0.000000	0.000001	0.000000	0.000000	0.000000	0.000003	0.000003
	Snack bags & confectionery wrappers	NBEV	0.000070	0.000305	0.000454	0.000149	0.000141	0.000149	0.000219	0.000180	0.001394	0.000274	0.001668
	Spoons/cutlery	NBEV	0.000010	0.000202	0.000048	0.000038	0.000010	0.000038	0.000058	0.000048	0.000394	0.000058	0.000451
	Straws	NBEV	0.000017	0.000215	0.000190	0.000054	0.000066	0.000025	0.000025	0.000149	0.000615	0.000124	0.000738
	Styrene foam boxes, sheets, etc.	NBEV	0.000000	0.000075	0.000938	0.000263	0.000075	0.000038	0.000075	0.000000	0.001388	0.000075	0.001463
	Take away & cups	NBEV	0.001035	0.007867	0.016355	0.003726	0.000621	0.001656	0.001863	0.001449	0.026499	0.008074	0.034572
	White milk, all sizes	BEV	0.000000	0.000000	0.002137	0.000000	0.000000	0.000000	0.000000	0.000000	0.002137	0.000000	0.002137
	Wine cask bladders	BEV	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
	TOTAL			0.002110	0.018373	0.068686	0.009049	0.002574	0.013639	0.003797	0.002779	0.066404	0.054603
GRAND TOTAL			0.003381	0.055134	0.382532	0.145207	0.006304	0.103333	0.033958	0.013714	0.463815	0.279750	0.743564

Appendix 1: Tracking Graphs

Weighting of Previous Results

Since February 2006 (Wave 32), 11 revised sites have been surveyed concurrently with the 151 original sites included within the litter monitor program since its inception in February 1998. The new and old sites were surveyed simultaneously across four Waves of the monitor.

These 11 revised sites have previously been surveyed concurrently with the 151 original sites to replace 11 of the original sites that were found to be unusual in nature, and analyses have typically focused on results for the 151 sites including the 11 new sites and the 151 sites including the 11 old sites separately.

However, in counts since the February 2007 Monitor only the 151 revised sites (incorporating the 11 new locations) have been surveyed. In order to facilitate tracking comparisons, figures prior to February 2007 have been weighted based upon the variations between results corresponding to the 151 sites including the 11 new sites and the 151 sites including the 11 old sites.

Weighting techniques were based upon comparisons of figures for items and volumes recorded during Waves 32, 33, 34 and 35 across all sites incorporating either the 11 original or 11 revised sites. Differences between such figures provided indices of the degree of consistent variation between original and revised site litter data, and reliable weightings were thereby established.

Figures which have been weighted included:

- **Absolute values (counts and volumes) within material categories and site types**, since the inclusion of the revised sites resulted in differences in nearly all absolute values of counted litter.
- **Comparisons between proportional representation of litter across site types**, due to the fact that site revision altered the proportions of litter contributed to the total litter stream within certain site categories whilst others remained unchanged.

However, preliminary investigations demonstrated that proportional contribution to the total litter stream within material types was consistently similar between the original and revised site sets. This finding supports the assumption that whilst the quantities of litter recorded differed between old and new sites, the types of materials present within such litter were relatively consistent. For this reason, proportional figures within material types did not require weighting.

Items within material categories across all 151 sites including either 11 original or 11 revised sites	Wave 32				Wave 33				Wave 34				Wave 35			
	Old	New	Diff	New as % of Old	Old	New	Diff	New as % of Old	Old	New	Diff	New as % of Old	Old	New	Diff	New as % of Old
Glass	419	311	108	0.74224344	349	293	56	0.83954155	321	281	40	0.87538941	305	249	56	0.81639344
Metal	1505	1218	287	0.80930233	1450	1099	351	0.75793103	1440	1086	354	0.75416667	1517	1183	334	0.77982861
Plastic	5447	3819	1628	0.70111988	5261	3866	1395	0.73484128	5057	3575	1482	0.70694087	5332	3827	1505	0.71774194
Paper/ paperboard	4299	2969	1330	0.69062573	3820	3003	817	0.78612565	4017	2961	1056	0.73711725	3616	2752	864	0.76106195
Miscellaneous	1286	975	311	0.75816485	1057	814	243	0.77010407	1025	815	210	0.79512195	1150	944	206	0.82086957
Cigarette Butts	7600	5744	1856	0.75578947	9606	6814	2792	0.70934832	10950	6959	3991	0.63552511	10875	6474	4401	0.59531034
TOTAL	20556	15036	5520	0.73146527	21543	15889	5654	0.73754816	22810	15677	7133	0.68728628	22795	15429	7366	0.67685896
AVERAGE New as % of Old				0.74124442				0.76220572				0.74164965				0.73829497
OVERALL Mean New as % of Old	0.7458															

Items within site type across all 151 sites including either 11 original or 11 revised sites		Residential	Beach	Industrial	Car Park	Shopping Centre	Retail	Recreational Park	Highway	Metropolitan	Regional	TOTAL
Wave 32	Old	1187	1016	2395	2194	1261	1517	617	10369	17020	3536	20556
	New	1187	1016	2196	2064	1292	1517	617	5147	11500	3536	15036
	Diff	0	0	199	130	-31	0	0	5222	5520	0	5520
	New as % of Old	1	1	0.92	0.94	1.02	1	1	0.50	0.68	1	7.3786248
Wave 33	Old	1227	737	2573	3142	2323	1659	590	9292	17788	3755	21543
	New	1227	737	2428	2722	1919	1659	590	4607	12134	3755	15889
	Diff	0	0	145	420	404	0	0	4685	5654	0	5654
	New as % of Old	1	1	0.94	0.87	0.83	1	1	0.50	0.68	1	7.1318625
Wave 34	Old	1185	721	2498	3365	1853	1670	479	11039	18749	4061	22810
	New	1185	721	2077	2724	1155	1670	479	5666	11616	4061	15677
	Diff	0	0	421	641	698	0	0	5373	7133	0	7133
	New as % of Old	1	1	0.83	0.81	0.62	1	1	0.51	0.62	1	6.7775595
Wave 35	Old	1134	728	2705	2601	2232	1801	729	10865	18640	4155	22795
	New	1134	728	2399	2156	1157	1801	729	5325	11274	4155	15429
	Diff	0	0	306	445	1075	0	0	5540	7366	0	7366
	New as % of Old	1	1	0.89	0.83	0.52	1	1	0.49	0.60	1	6.7242631
Average New as % of Old		1	1	0.89	0.86	0.75	1	1	0.50	0.65	1	7.0030775

Proportions of total items within site type across all 151 sites including either 11 original or 11 revised sites		Residential	Beach	Industrial	Car Park	Shopping Centre	Retail	Recreational Park	Highway	Metropolitan	Regional	TOTAL
Wave 32	Old	1187	1016	2395	2194	1261	1517	617	10369	17020	3536	20556
	New	1187	1016	2196	2064	1292	1517	617	5147	11500	3536	15036
	Old % of total items	5.8%	4.9%	11.7%	10.7%	6.1%	7.4%	3.0%	50.4%	82.8%	17.2%	
	New % of total items	7.9%	6.8%	14.6%	13.7%	8.6%	10.1%	4.1%	34.2%	76.5%	23.5%	
	% change from Old to New	2.1%	1.8%	3.0%	3.1%	2.5%	2.7%	1.1%	-16.2%	-6.3%	6.3%	
Wave 33	Old	1227	737	2573	3142	2323	1659	590	9292	17788	3755	21543
	New	1227	737	2428	2722	1919	1659	590	4607	12134	3755	15889
	Old % of total items	5.7%	3.4%	11.9%	14.6%	10.8%	7.7%	2.7%	43.1%	82.6%	17.4%	
	New % of total items	7.7%	4.6%	15.3%	17.1%	12.1%	10.4%	3.7%	29.0%	76.4%	23.6%	
	% change from Old to New	2.0%	1.2%	3.3%	2.5%	1.3%	2.7%	1.0%	-14.1%	-6.2%	6.2%	
Wave 34	Old	1185	721	2498	3365	1853	1670	479	11039	18749	4061	22810
	New	1185	721	2077	2724	1155	1670	479	5666	11616	4061	15677
	Old % of total items	5.2%	3.2%	11.0%	14.8%	8.1%	7.3%	2.1%	48.4%	82.2%	17.8%	
	New % of total items	7.6%	4.6%	13.2%	17.4%	7.4%	10.7%	3.1%	36.1%	74.1%	25.9%	
	% change from Old to New	2.4%	1.4%	2.3%	2.6%	-0.8%	3.3%	1.0%	-12.3%	-8.1%	8.1%	
Wave 35	Old	1134	728	2705	2601	2232	1801	729	10865	18640	4155	22795
	New	1134	728	2399	2156	1157	1801	729	5325	11274	4155	15429
	Old % of total items	5.0%	3.2%	11.9%	11.4%	9.8%	7.9%	3.2%	47.7%	81.8%	18.2%	
	New % of total items	7.3%	4.7%	15.5%	14.0%	7.5%	11.7%	4.7%	34.5%	73.1%	26.9%	
	% change from Old to New	2.4%	1.5%	3.7%	2.6%	-2.3%	3.8%	1.5%	-13.2%	-8.7%	8.7%	
Average % difference from Old to New		2%	1%	3%	3%	0%	3%	1%	-14%	-7%	7%	

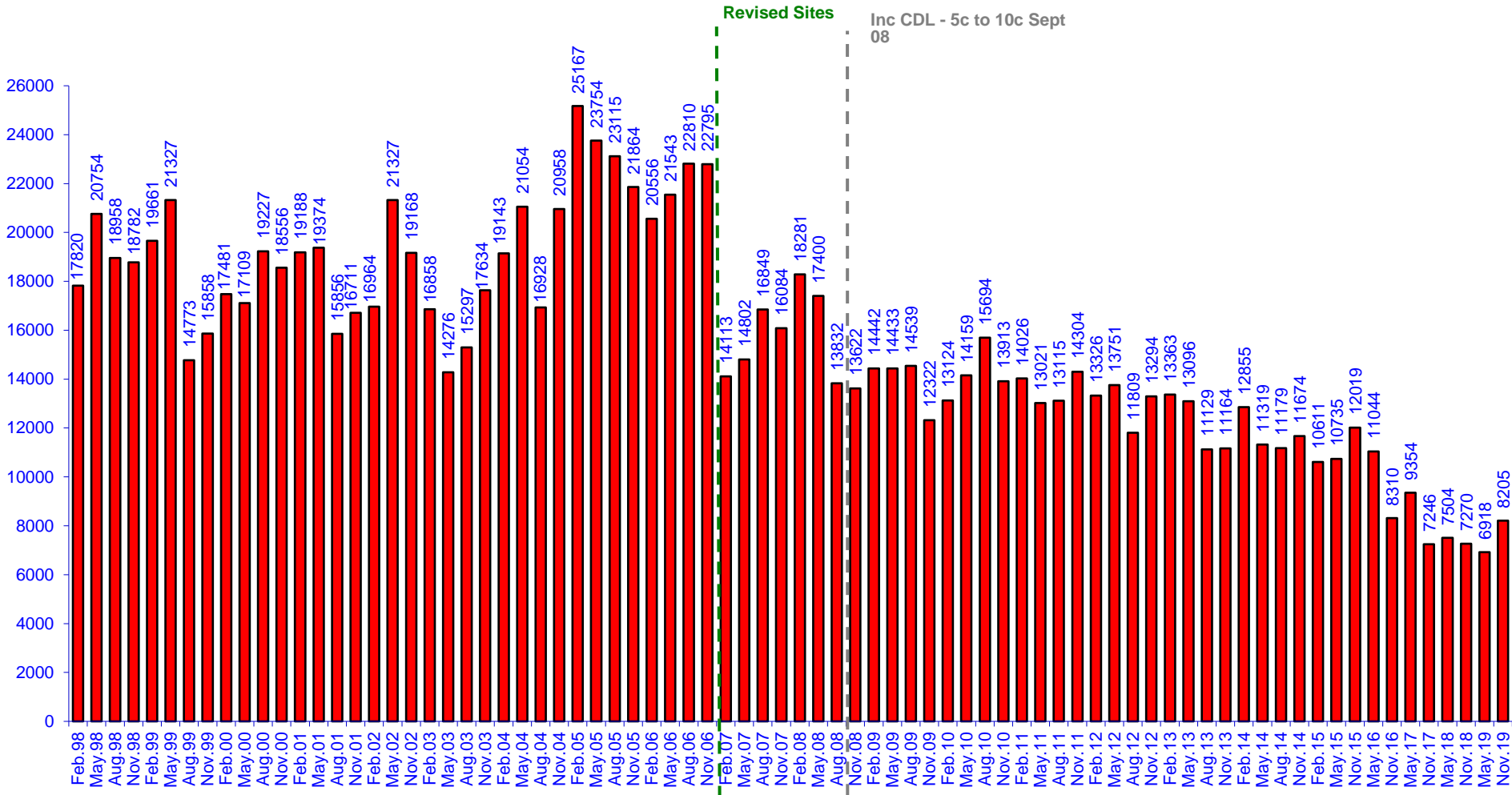
Volumes within material categories across all 151 sites including either 11 original or 11 revised sites	Wave 32				Wave 33				Wave 34				Wave 35			
	Old	New	Diff	New as % of Old	Old	New	Diff	New as % of Old	Old	New	Diff	New as % of Old	Old	New	Diff	New as % of Old
Glass	0.11965	0.09027	0.02939	0.75438	0.08663	0.06859	0.01804	0.79173	0.08559	0.07086	0.01473	0.82789	0.06907	0.05316	0.01591	0.76962
Metal	0.22261	0.19846	0.02415	0.8915	0.15196	0.13181	0.02015	0.86741	0.15085	0.10952	0.04132	0.72605	0.17499	0.15130	0.02369	0.86463
Plastic	1.16278	0.72042	0.44235	0.61957	0.90407	0.71848	0.18559	0.79472	0.93411	0.63312	0.30099	0.67778	0.88814	0.67589	0.21225	0.76102
Paper/ paperboard	0.71375	0.41932	0.29443	0.58749	0.47904	0.36017	0.11888	0.75184	0.54568	0.35535	0.19033	0.6512	0.50410	0.35413	0.14998	0.70249
Miscellaneous	1.11014	0.83415	0.27599	0.75139	0.84900	0.61172	0.23727	0.72052	0.78143	0.71261	0.06882	0.91194	2.14021	1.97182	0.16839	0.92132
Cigarette Butts	0.00009	0.00007	0.00002	0.75515	0.00011	0.00008	0.00003	0.70935	0.00013	0.00008	0.00005	0.63553	0.00013	0.00007	0.00005	0.59531
TOTAL	3.32902	2.26269	1.06633	0.67969	2.47082	1.89085	0.57996	0.76528	2.49778	1.88155	0.61624	0.75329	3.77664	3.20638	0.57026	0.849
AVERAGE New as % of Old				0.71988				0.77155				0.74052				0.78049
OVERALL MEAN DIFFERENCE	0.7531															

Volumes within site type across all 151 sites including either 11 original or 11 revised sites		Residential	Beach	Industrial	Car Park	Shopping Centre	Retail	Recreational Park	Highway	Metropolitan	Regional	TOTAL
Wave 32	Old	0.05441	0.02998	0.57970	0.13090	0.01177	0.01877	0.02922	2.47428	2.54585	0.78318	3.32902
	New	0.05441	0.02998	0.57922	0.17275	0.00965	0.01877	0.02922	1.36868	1.47951	0.78318	2.26269
	Diff			0.00048	-0.04186	0.00212			1.10559	1.06633		
	New as % of Old	1	1	0.99917	1.31979	0.82005	1	1	0.55317	0.58115	1	
Wave 33	Old	0.06600	0.03600	0.54200	0.07100	0.03000	0.02100	0.04100	1.66400	1.85500	0.61500	2.47100
	New	0.06600	0.03600	0.53900	0.07000	0.01000	0.02100	0.04100	1.10700	1.27500	0.61500	1.89000
	Diff			0.00300	0.00100	0.02000			0.55700	0.58000		
	New as % of Old	1	1	0.99446	0.98592	0.33333	1	1	0.66526	0.68733	1	
Wave 34	Old	0.07800	0.06500	0.41100	0.14100	0.05000	0.01200	0.00600	1.73400	1.87300	0.62500	2.49700
	New	0.07800	0.06500	0.40000	0.14000	0.00900	0.01200	0.00600	1.17100	1.25700	0.62500	1.88100
	Diff			0.01100	0.00100	0.04100			0.56300	0.61600		
	New as % of Old	1	1	0.97324	0.99291	0.18000	1	1	0.67532	0.67112	1	
Wave 35	Old	0.17400	0.01700	0.58800	0.13000	0.05300	0.05900	0.01700	2.73700	2.12500	1.65200	3.77500
	New	0.17400	0.01700	0.58600	0.14600	0.03700	0.05900	0.01700	2.16900	1.55500	1.65200	3.20500
	Diff			0.00200	-0.01600	0.01600			0.56800	0.57000		
	New as % of Old	1	1	1.00	1.12	0.70	1	1	0.79	0.73	1	
Average New as % of Old		1	1	0.99	1.11	0.51	1	1	0.67	0.67	1	

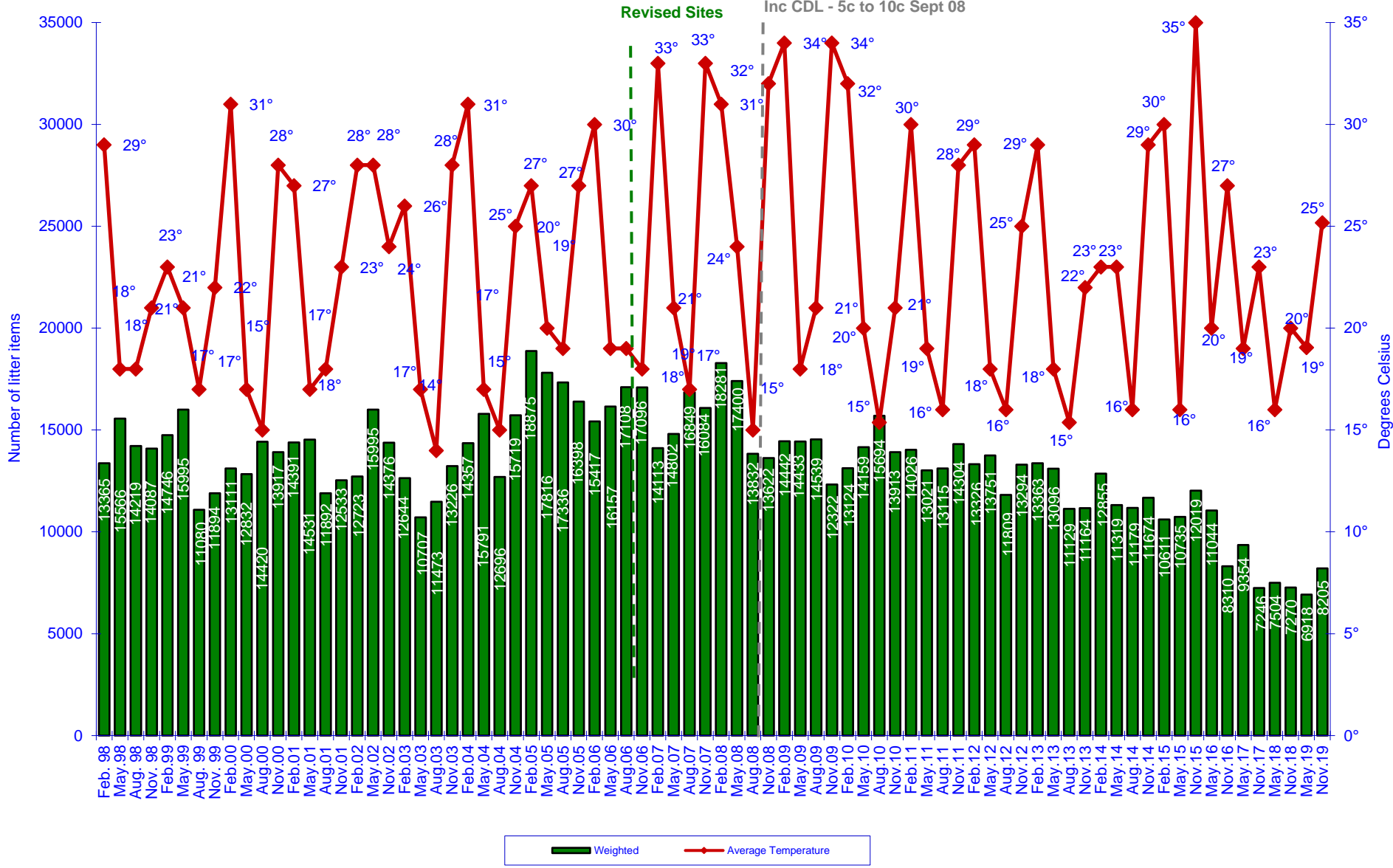
Proportions of total volume within site type across all 151 sites including either 11 original or 11 revised sites		Residential	Beach	Industrial	Car Park	Shopping Centre	Retail	Recreational Park	Highway	Metropolitan	Regional	TOTAL
Wave 32	Old	0.05441	0.02998	0.57970	0.13090	0.01177	0.01877	0.02922	2.47428	2.54585	0.78318	3.32902
	New	0.05441	0.02998	0.57922	0.17275	0.00965	0.01877	0.02922	1.36868	1.47951	0.78318	2.26269
	Old % of total volume	1.6%	0.9%	17.4%	3.9%	0.4%	0.6%	0.9%	74.3%	76.5%	23.5%	
	New % of total volume	2.4%	1.3%	25.6%	7.6%	0.4%	0.8%	1.3%	60.5%	65.4%	34.6%	
	% change from Old to New	0.8%	0.4%	8.2%	3.7%	0.1%	0.3%	0.4%	-13.8%	-11.1%	11.1%	
Wave 33	Old	0.06600	0.03600	0.54200	0.07100	0.03000	0.02100	0.04100	1.66400	1.85500	0.61500	2.47100
	New	0.06600	0.03600	0.53900	0.07000	0.01000	0.02100	0.04100	1.10700	1.27500	0.61500	1.89000
	Old % of total volume	2.7%	1.5%	21.9%	2.9%	1.2%	0.8%	1.7%	67.3%	75.1%	24.9%	
	New % of total volume	3.5%	1.9%	28.5%	3.7%	0.5%	1.1%	2.2%	58.6%	67.5%	32.5%	
	% change from Old to New	0.8%	0.4%	6.6%	0.8%	-0.7%	0.3%	0.5%	-8.8%	-7.6%	7.7%	
Wave 34	Old	0.07800	0.06500	0.41100	0.14100	0.05000	0.01200	0.00600	1.73400	1.87300	0.62500	2.49700
	New	0.07800	0.06500	0.40000	0.14000	0.00900	0.01200	0.00600	1.17100	1.25700	0.62500	1.88100
	Old % of total volume	3.1%	2.6%	16.5%	5.6%	2.0%	0.5%	0.2%	69.4%	75.0%	25.0%	
	New % of total volume	4.1%	3.5%	21.3%	7.4%	0.5%	0.6%	0.3%	62.3%	66.8%	33.2%	
	% change from Old to New	1.0%	0.9%	4.8%	1.8%	-1.5%	0.2%	0.1%	-7.2%	-8.2%	8.2%	
Wave 35	Old	0.17400	0.01700	0.58800	0.13000	0.05300	0.05900	0.01700	2.73700	2.12500	1.65200	3.77500
	New	0.17400	0.01700	0.58600	0.14600	0.03700	0.05900	0.01700	2.16900	1.55500	1.65200	3.20500
	Old % of total volume	4.6%	0.5%	15.6%	3.4%	1.4%	1.6%	0.5%	72.5%	56.3%	43.8%	
	New % of total volume	5.4%	0.5%	18.3%	4.6%	1.2%	1.8%	0.5%	67.7%	48.5%	51.5%	
	% change from Old to New	0.8%	0.1%	2.7%	1.1%	-0.2%	0.3%	0.1%	-4.8%	-7.8%	7.8%	
Average % difference from Old to New		1%	0%	6%	2%	-1%	0%	0%	-9%	-9%	9%	

Unweighted Tracking Graphs - Items

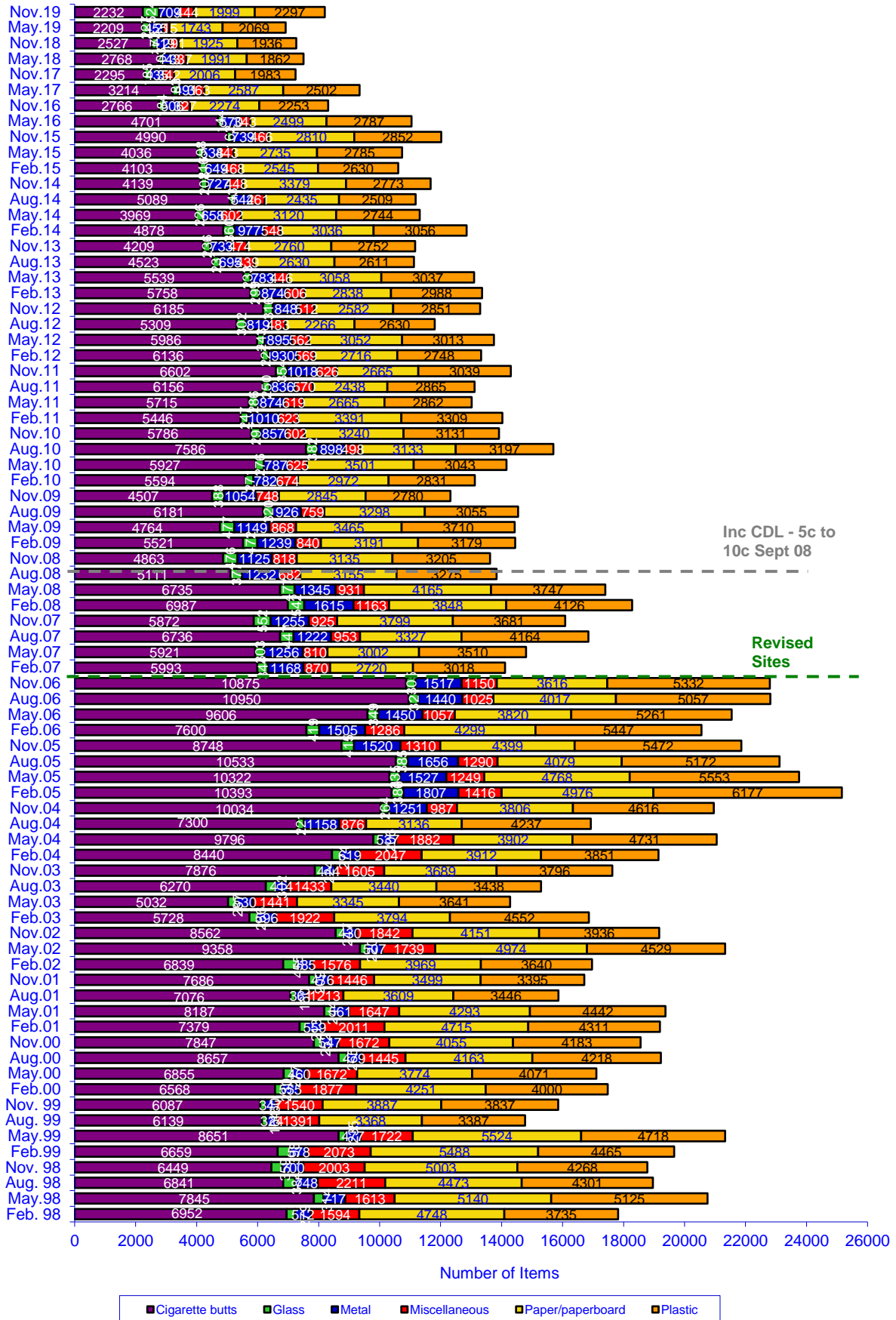
Total Litter - Number of Items



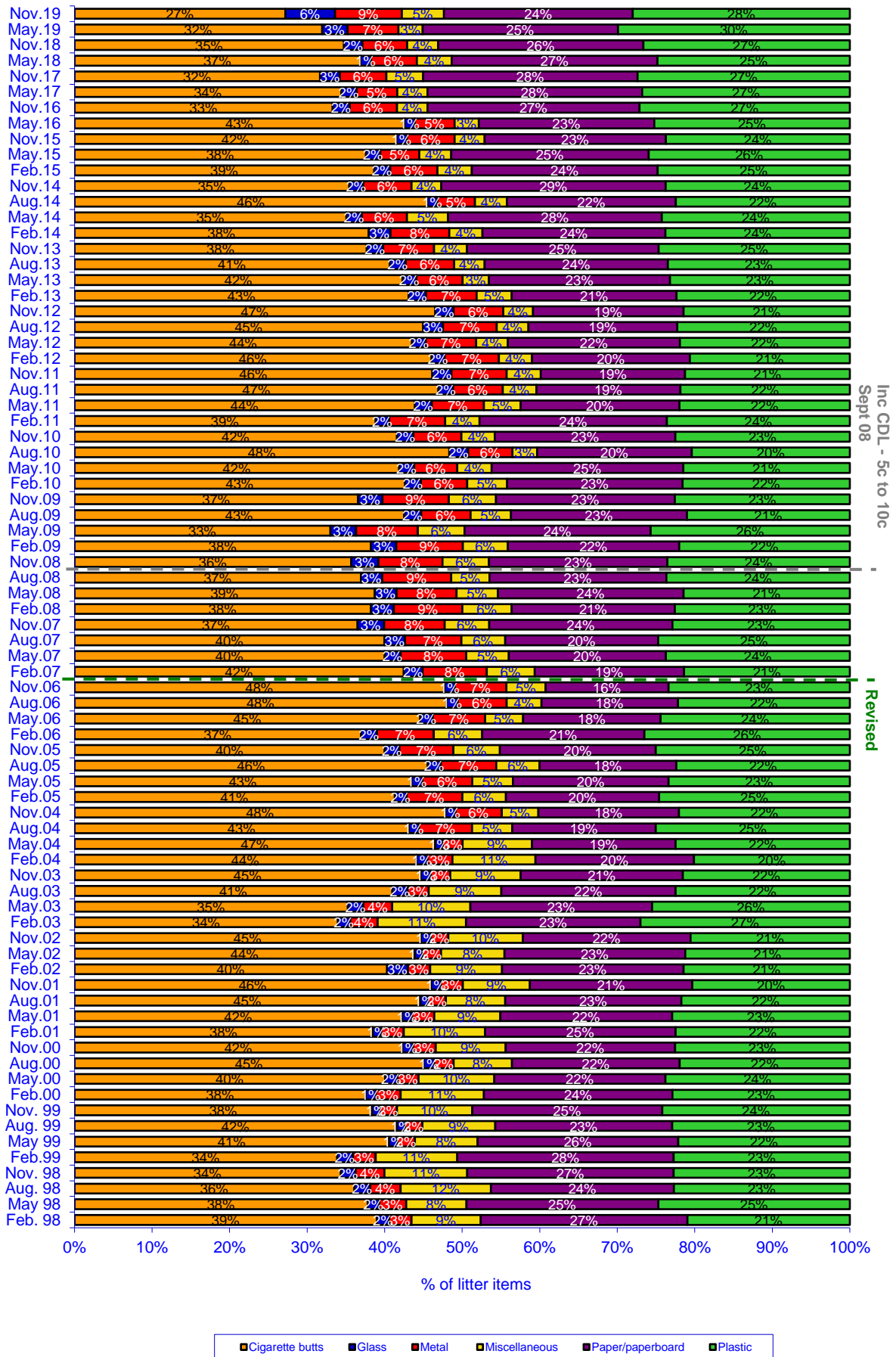
Weather Temperature and Total Number of Litter Items



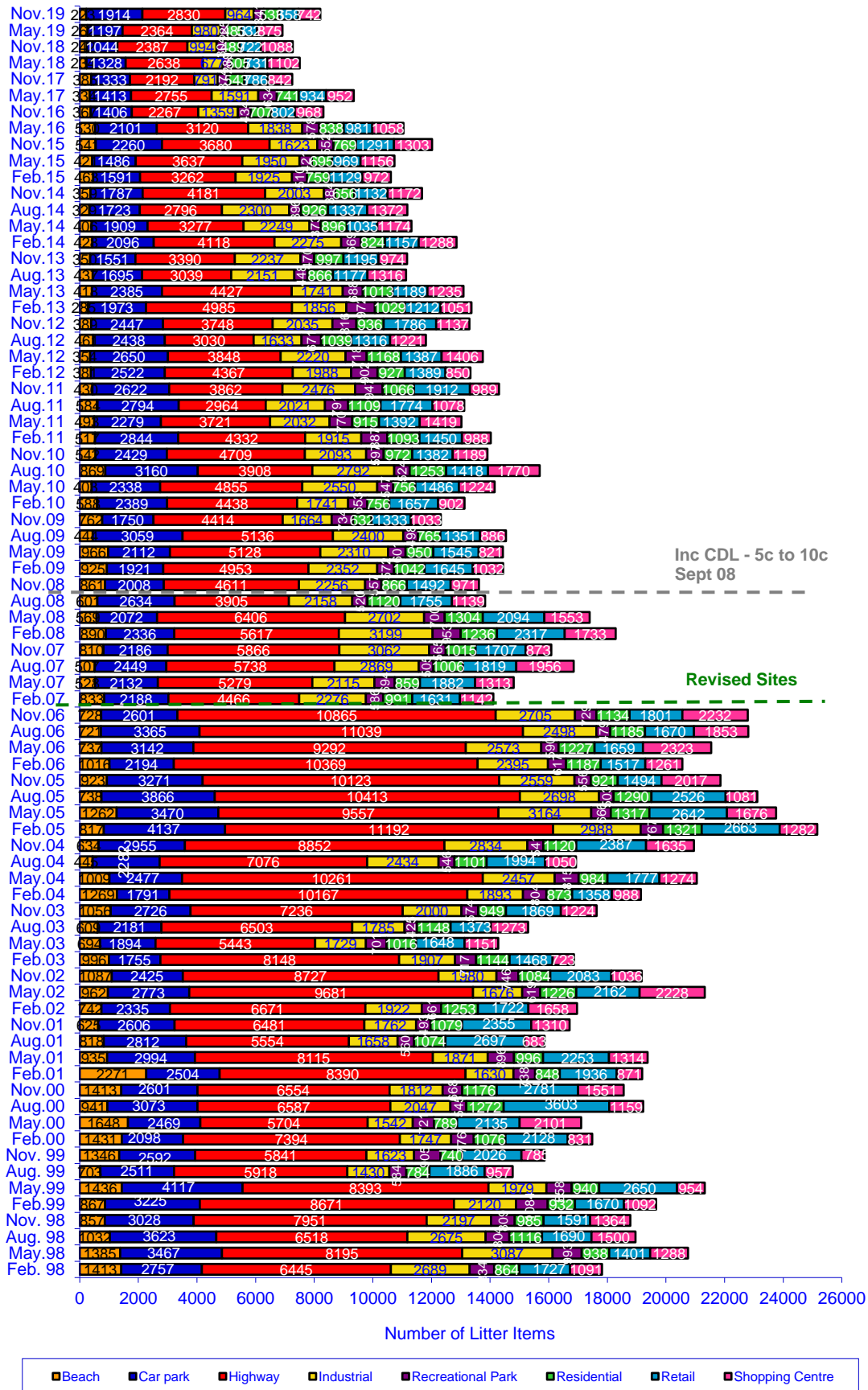
Number of Litter Items by Material Type



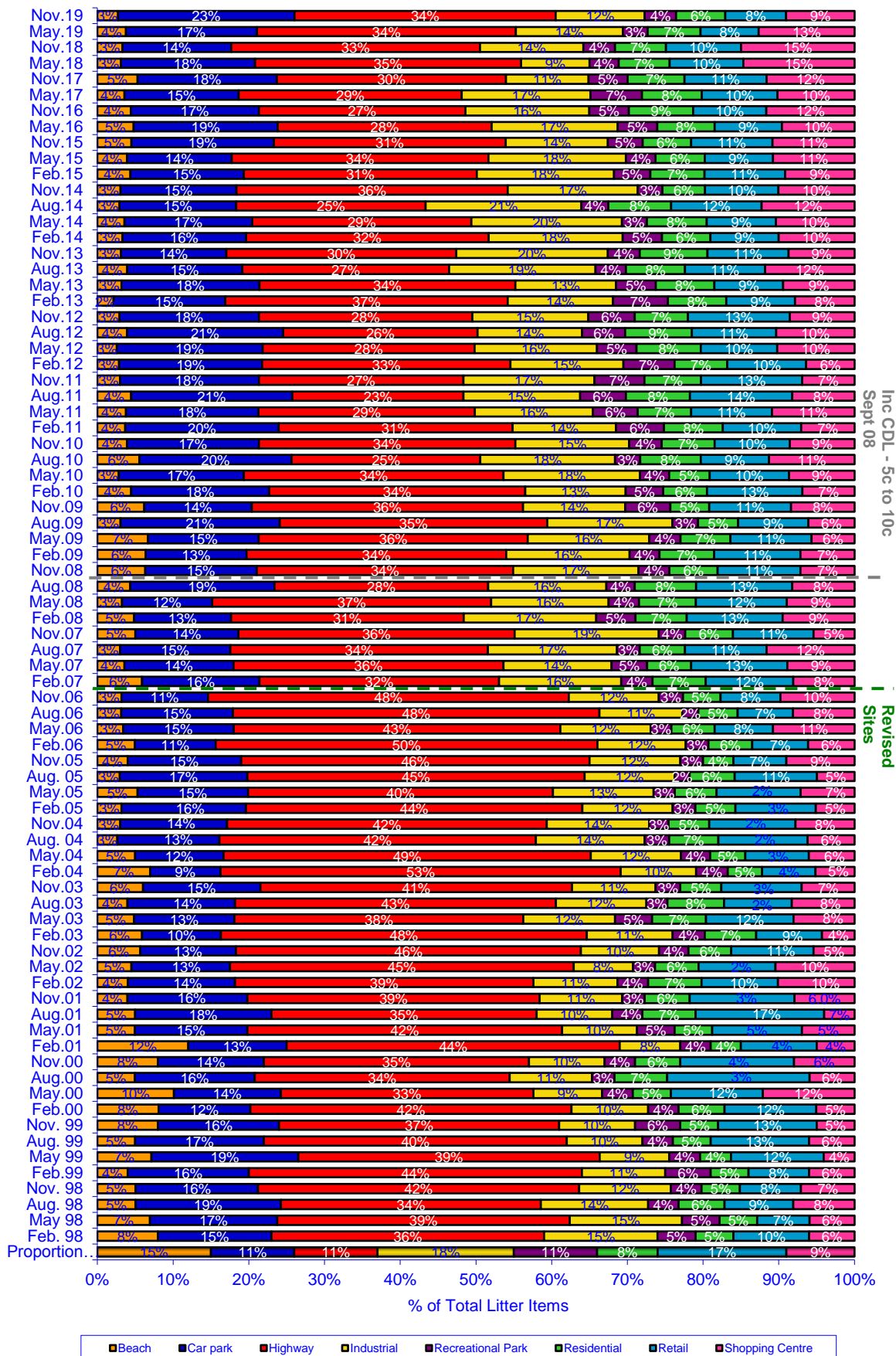
Proportion of Total Litter Stream by Material Type



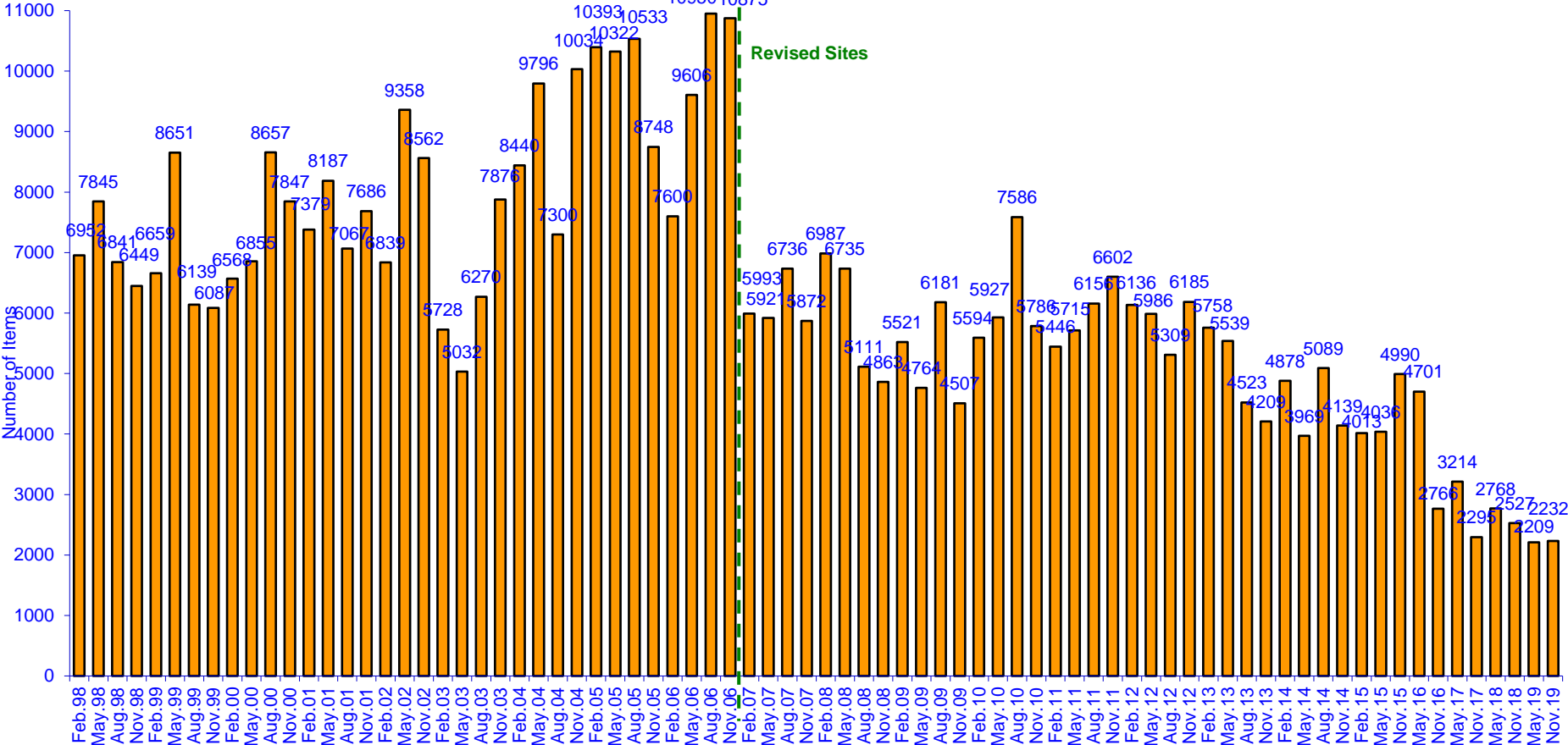
Number of Litter Items by Site Type



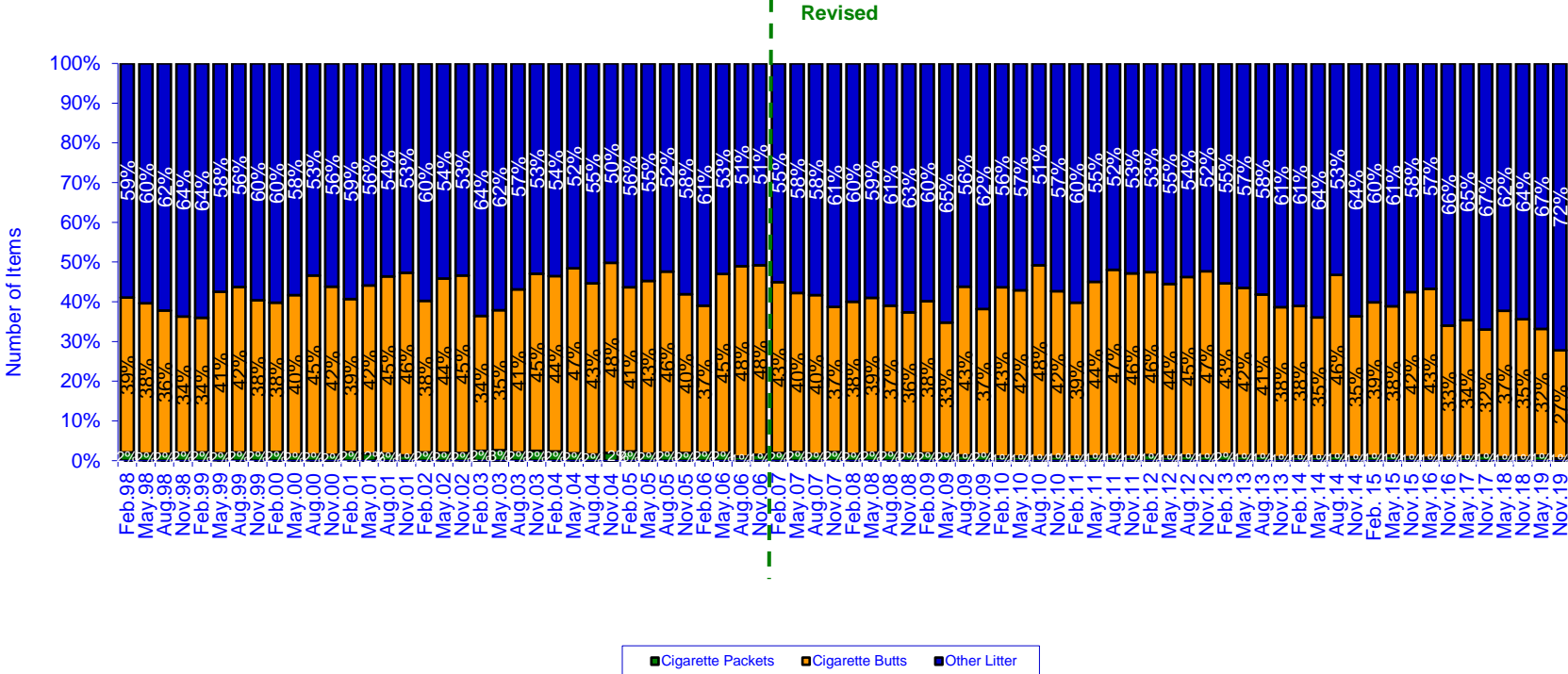
Proportion of Total Litter by Site Type



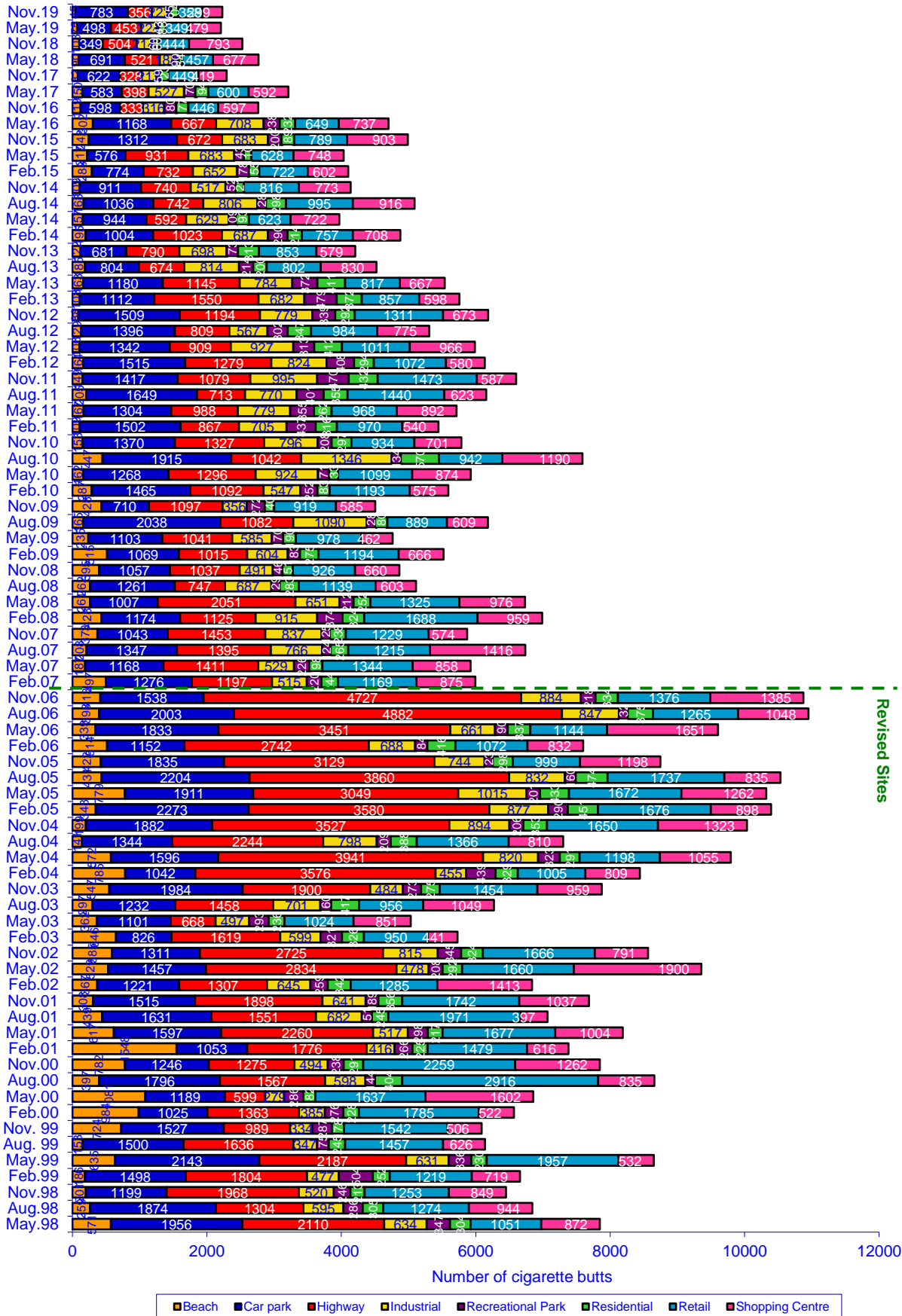
Total Number of Cigarette Butts



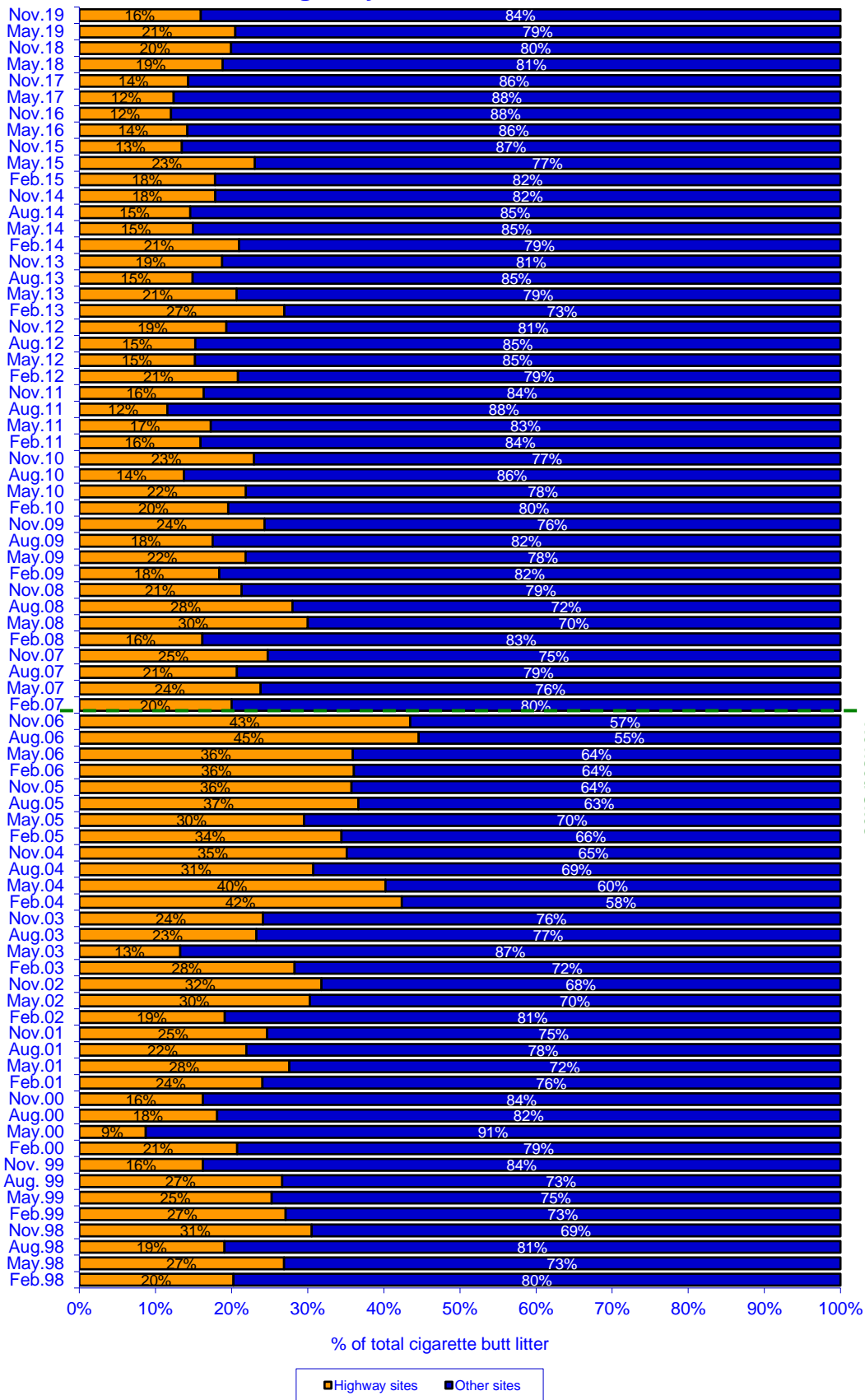
Proportion of Cigarette Related Litter Items in Total Litter Stream



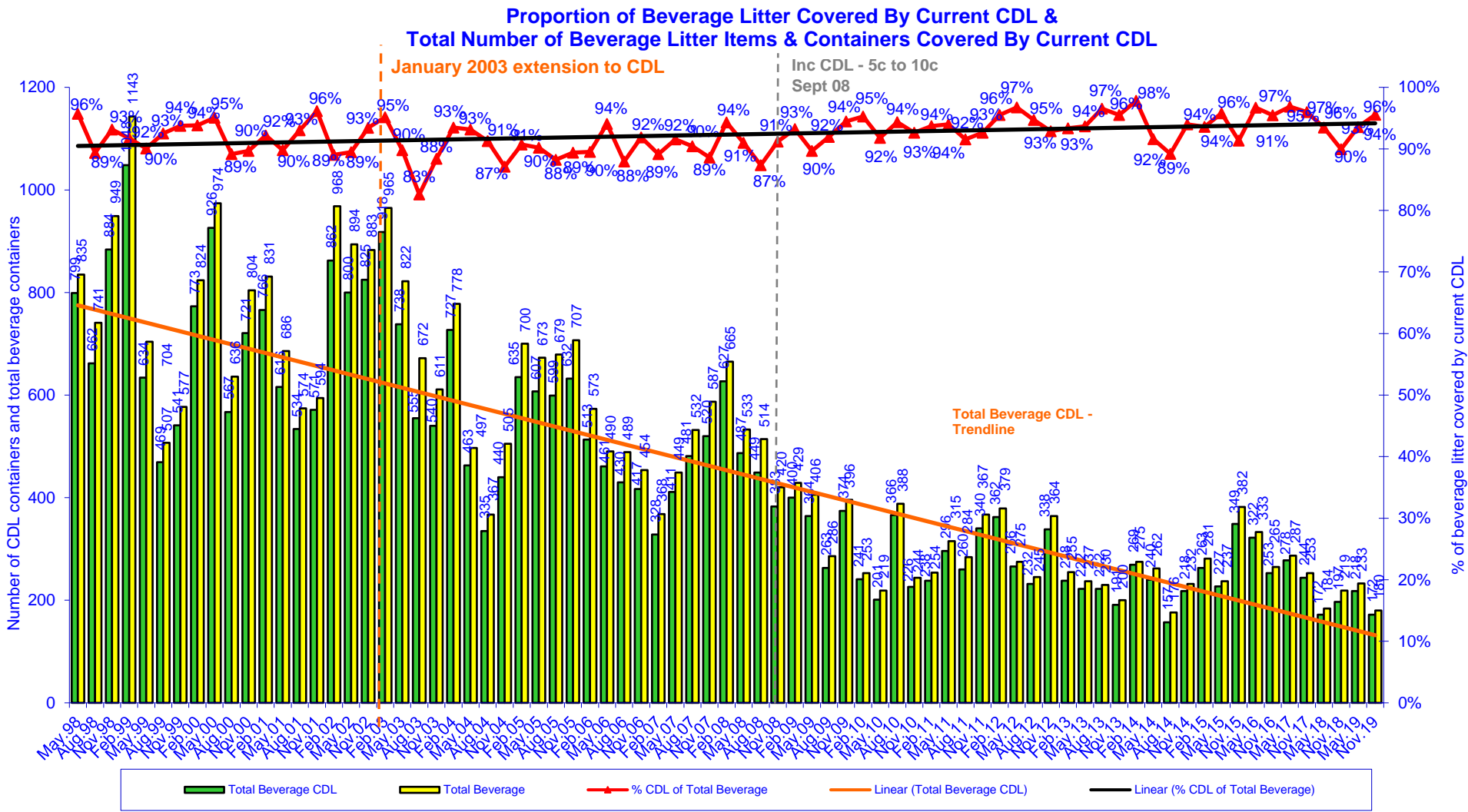
Number of Cigarette Butts by Site Type



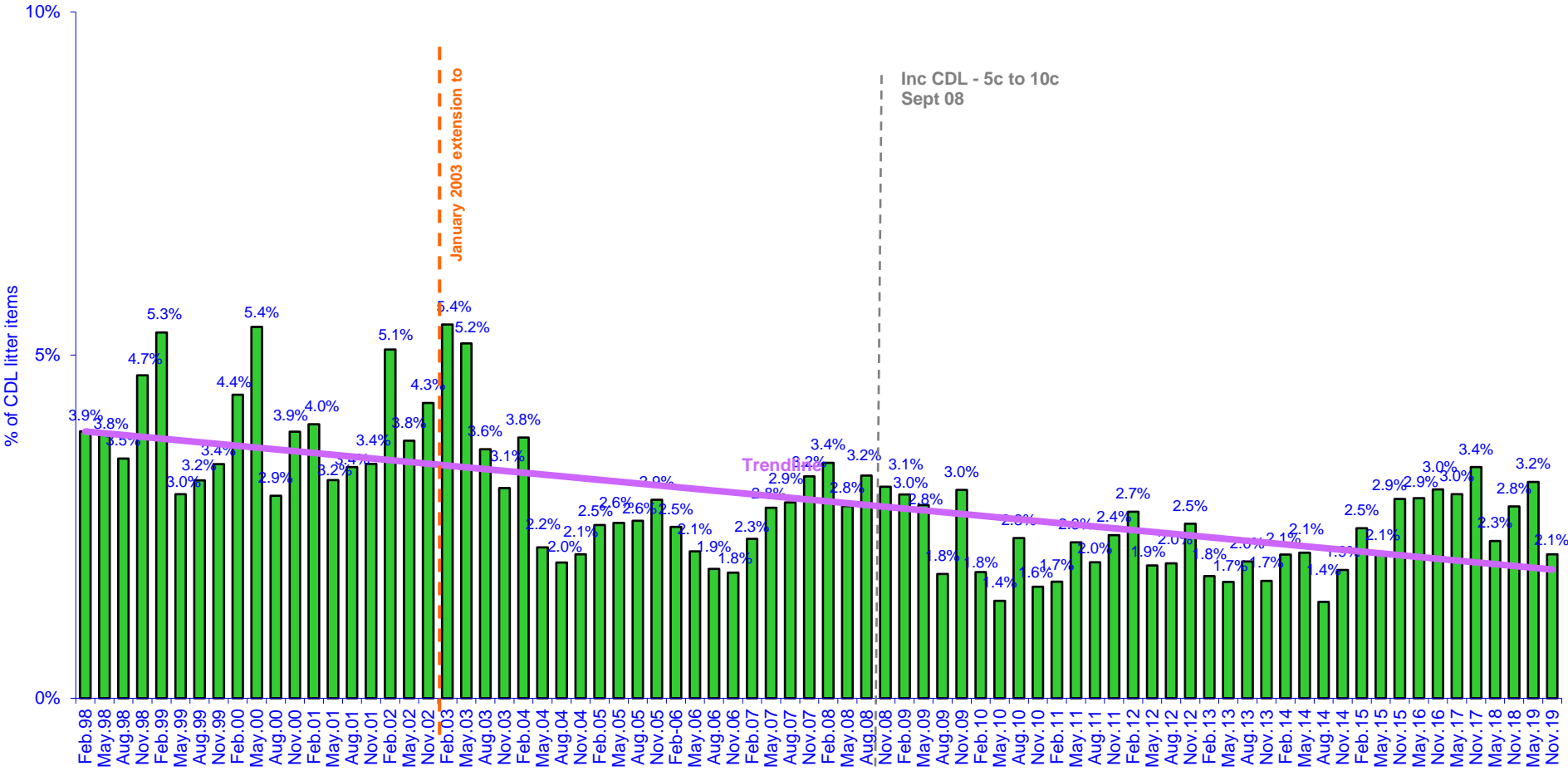
Proportion of Total Cigarette Butt Litter at Highway sites & Other sites



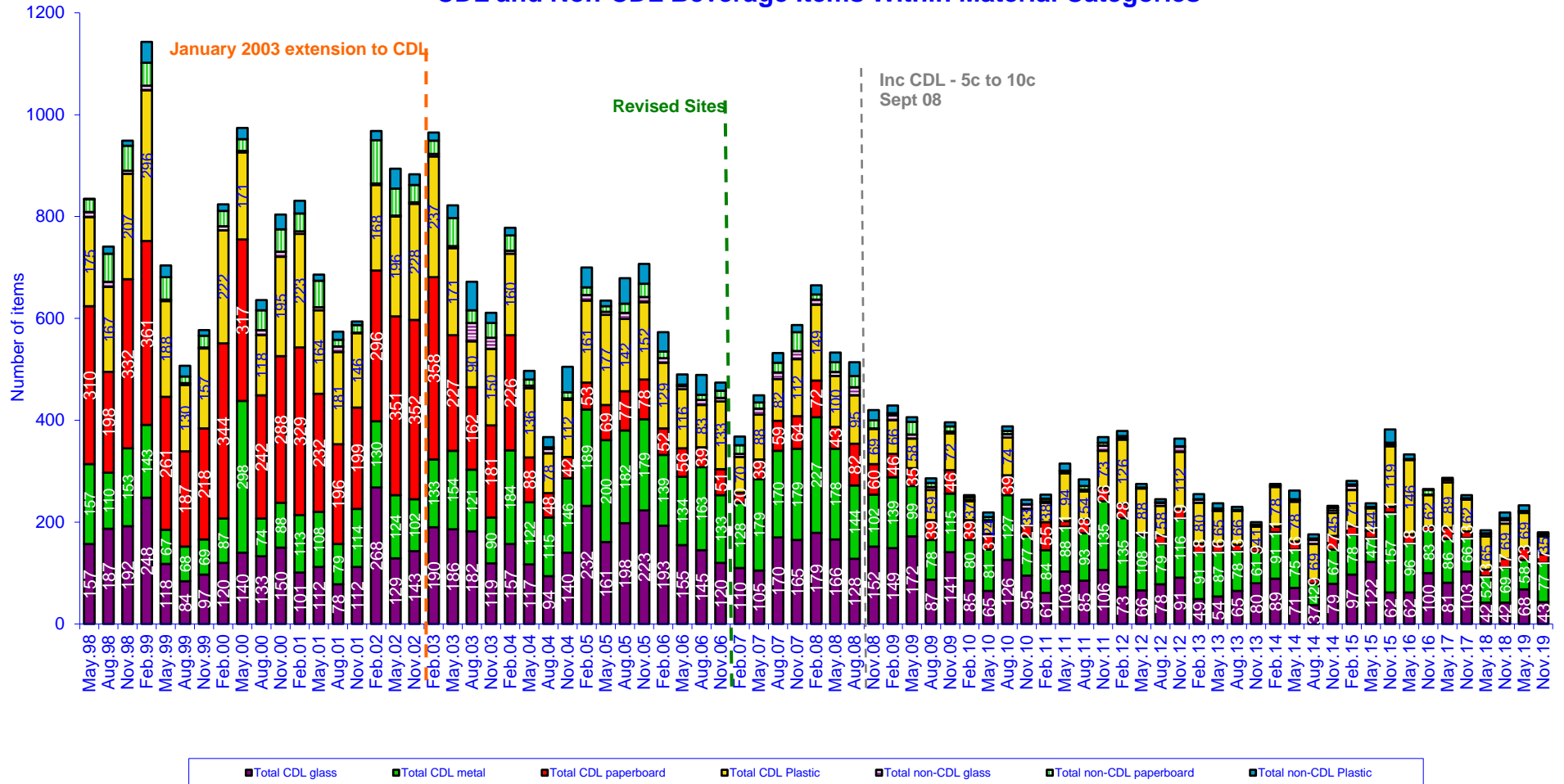
Revised Sites



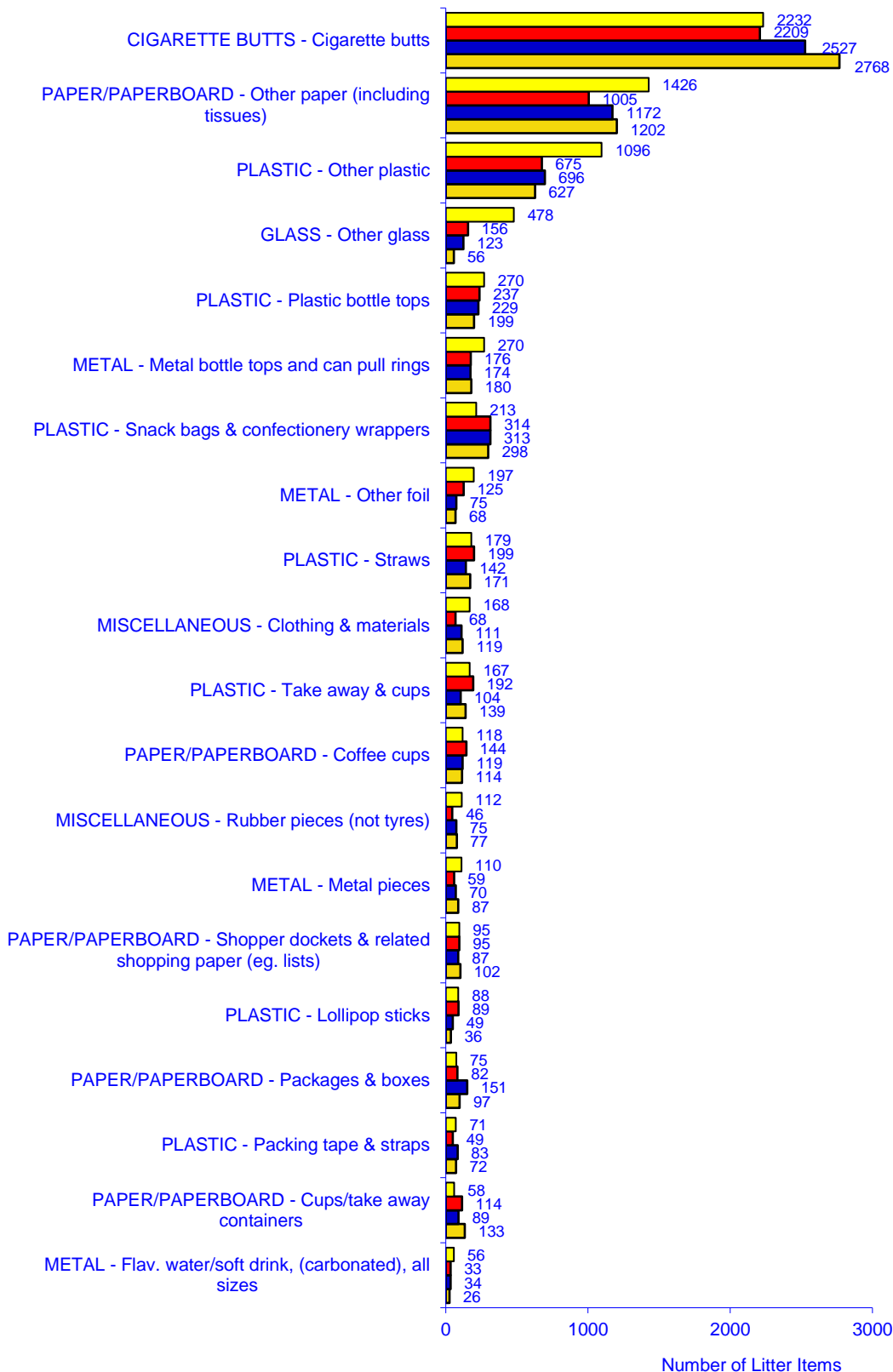
Proportion of Current CDL Litter Items in Total Litter Stream



CDL and Non-CDL Beverage Items Within Material Categories



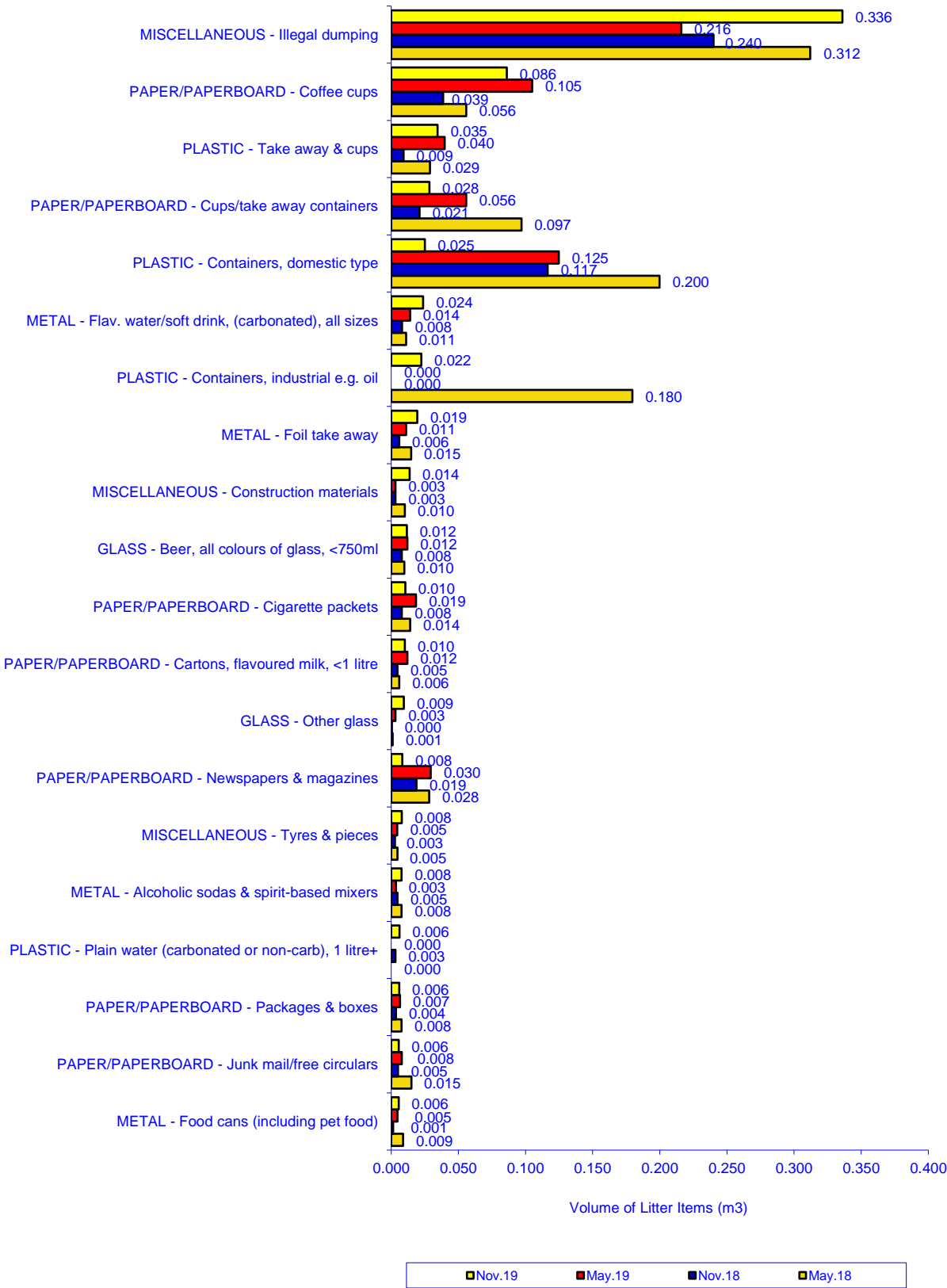
Top 20 Litter Items - Highest Counts



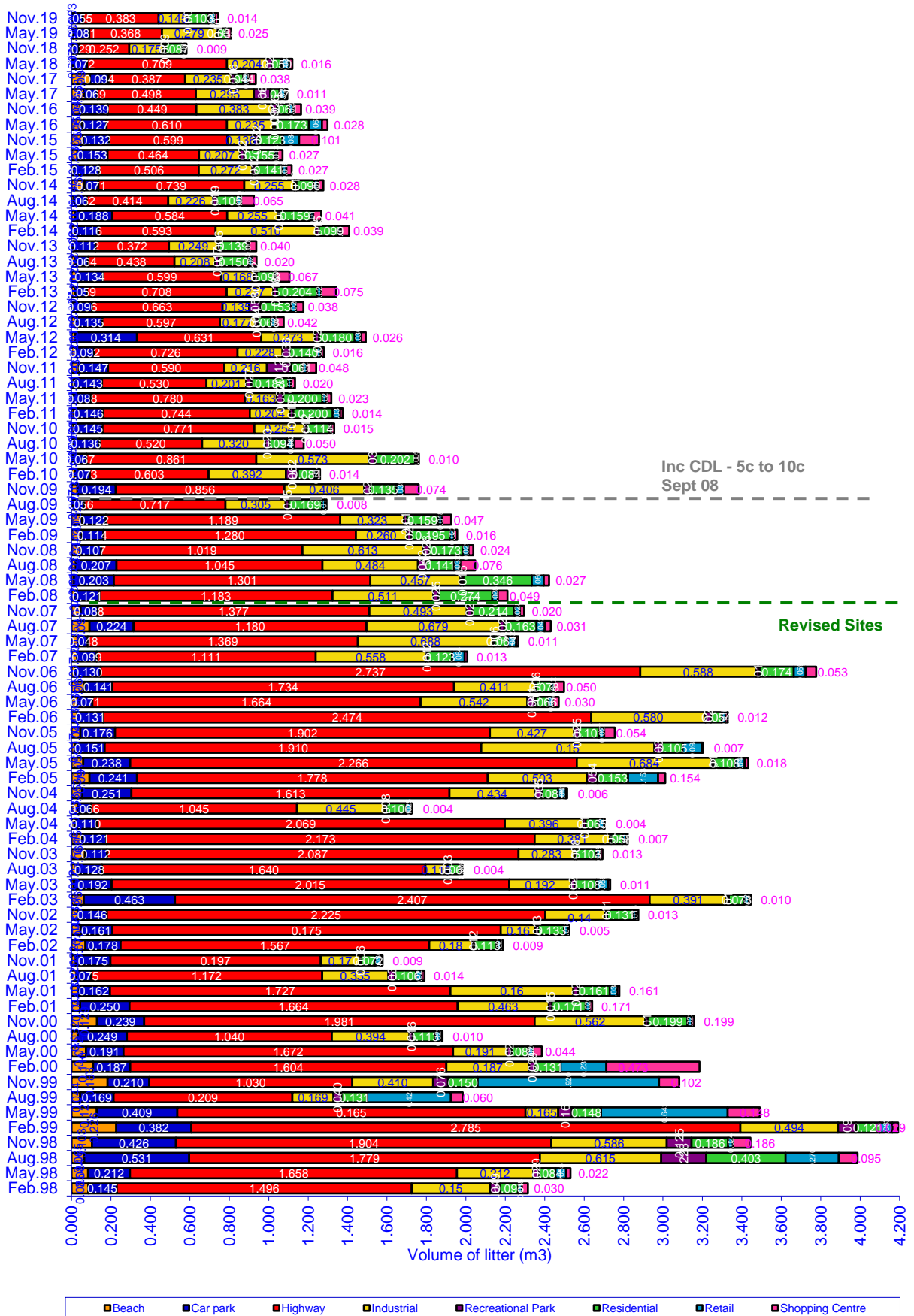
■ Nov.19 ■ May.19 ■ Nov.18 ■ May.18

Unweighted Tracking Graphs - Volume

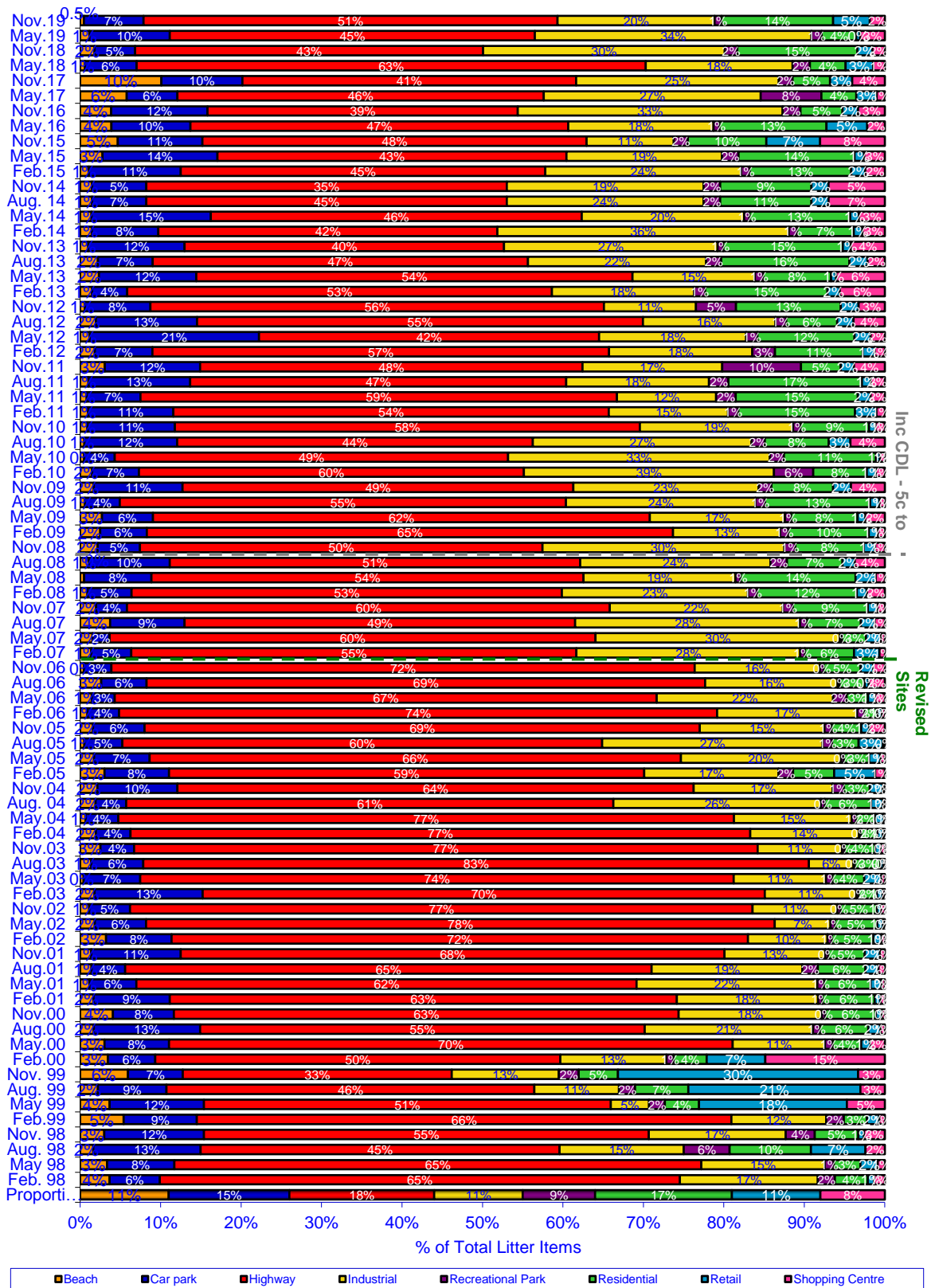
Top 20 Litter Items by Volume



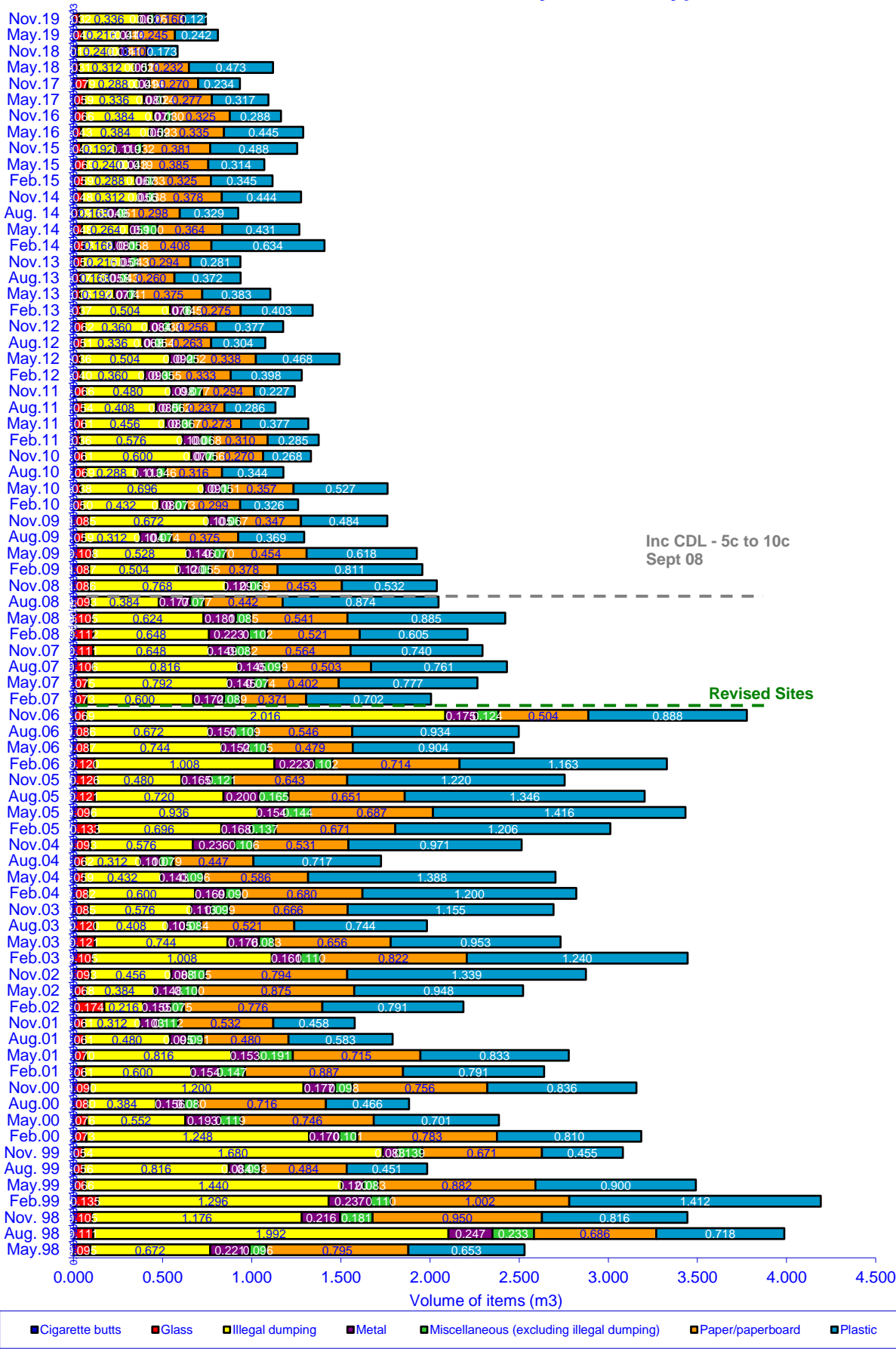
Volume of Litter by Site Type



Proportion of Litter Volume in Total Litter Stream by Site Type

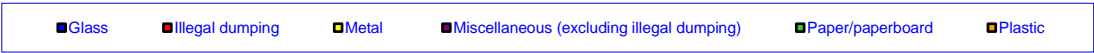
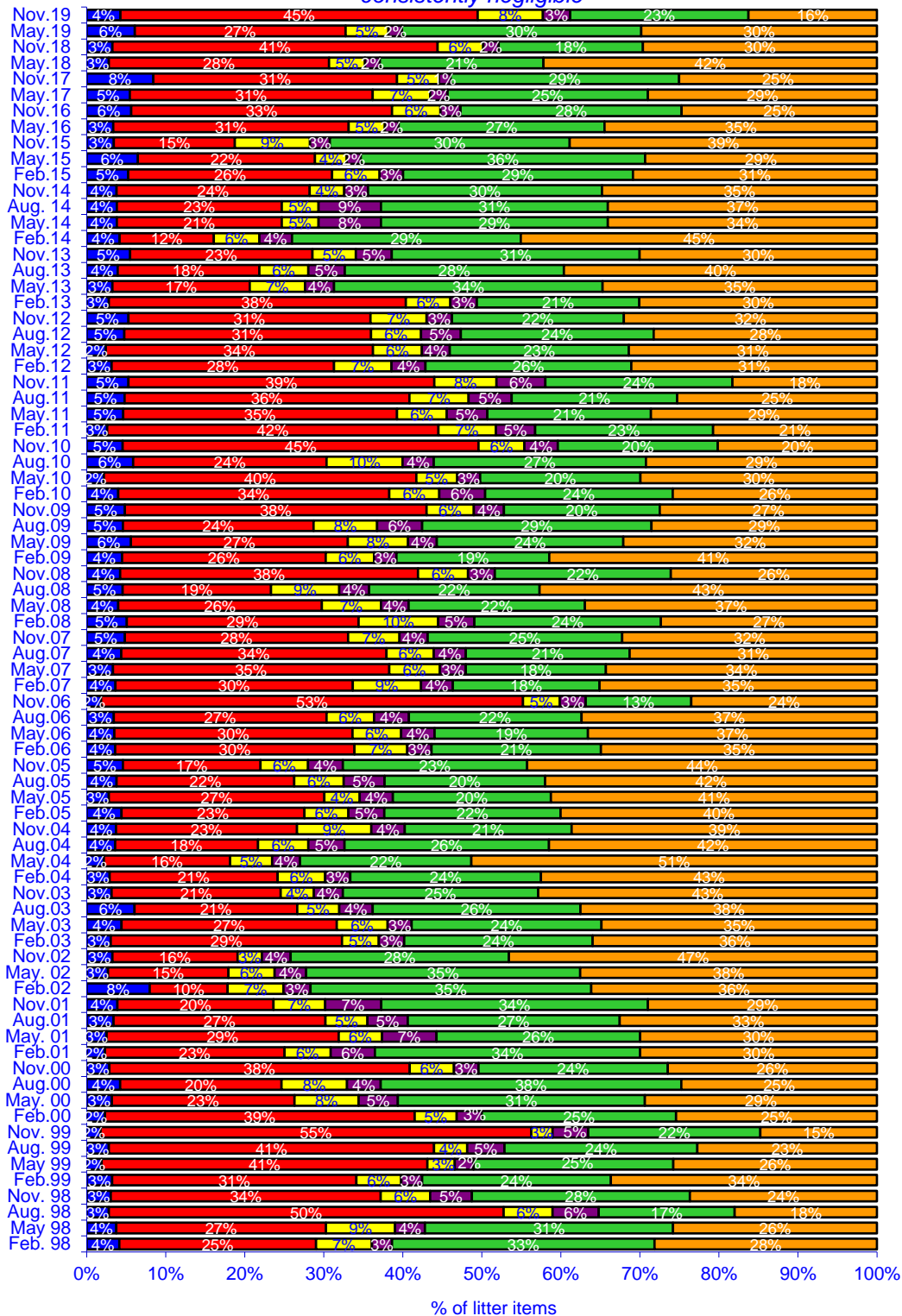


Volume of Litter Items by Material Type

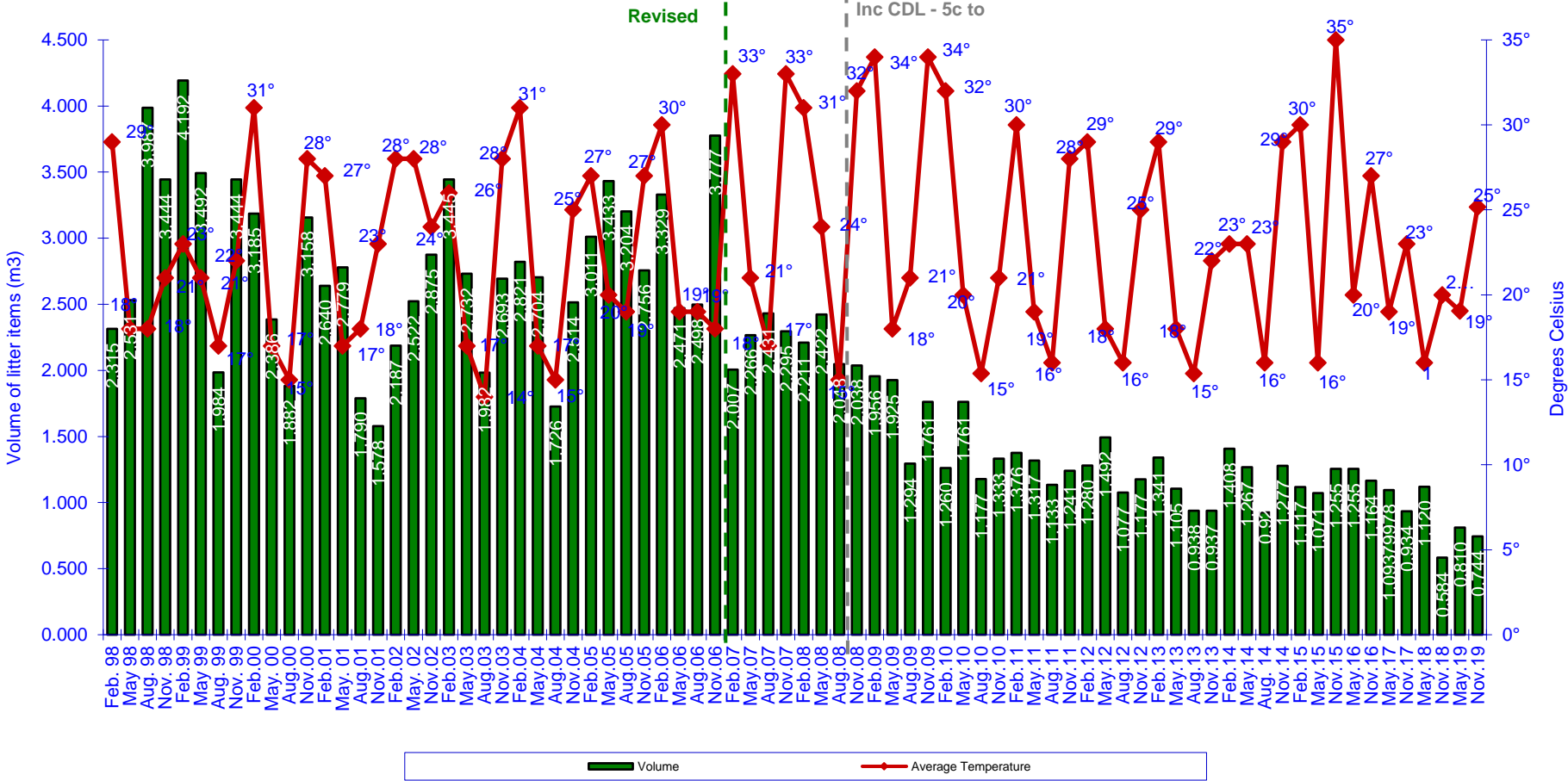


Proportion of Total Litter Volume by Material Type

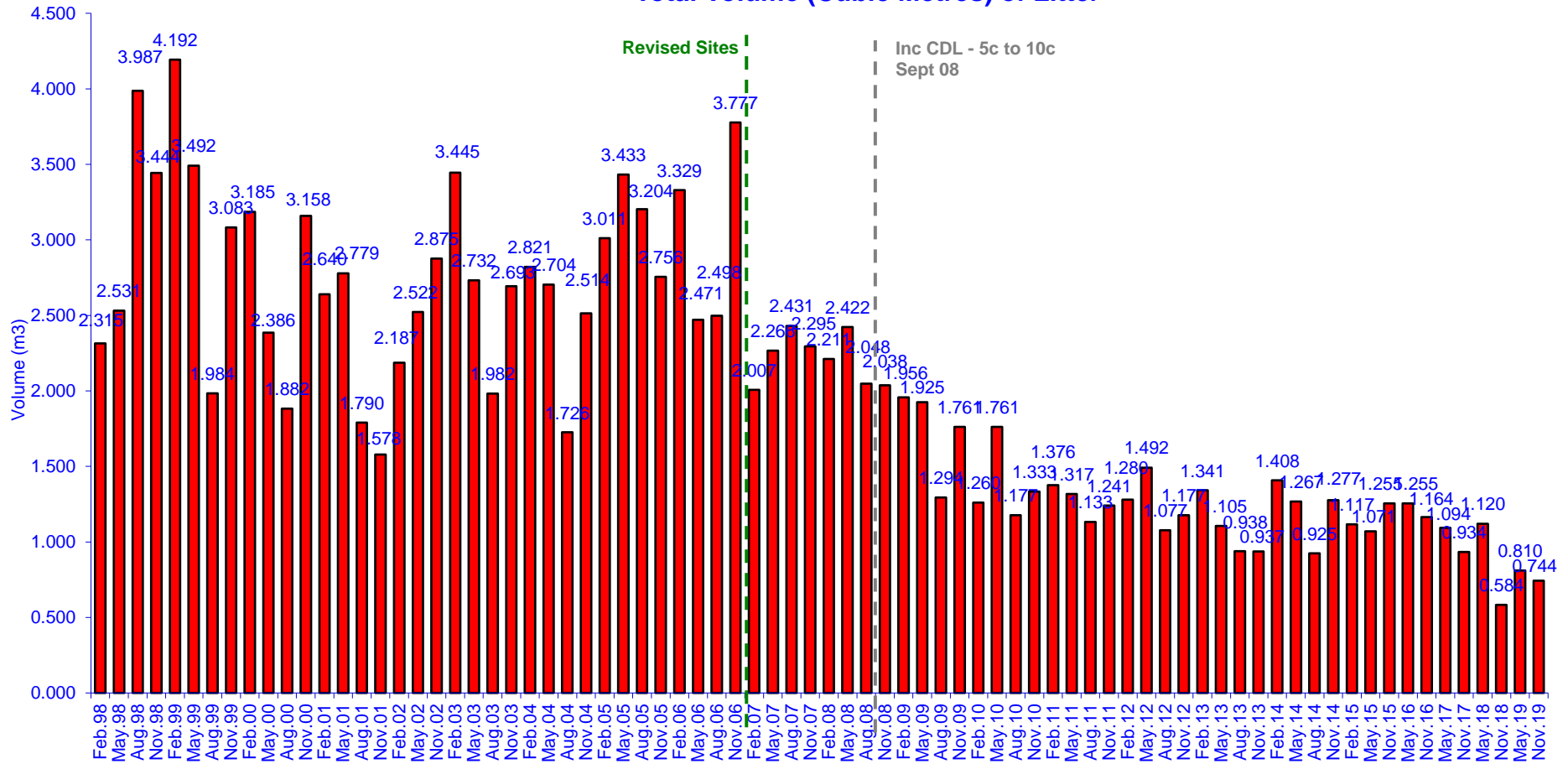
- Please note that cigarette butts are not included as the volumes of such are consistently negligible -



Weather Temperature and Total Volume of Litter Items

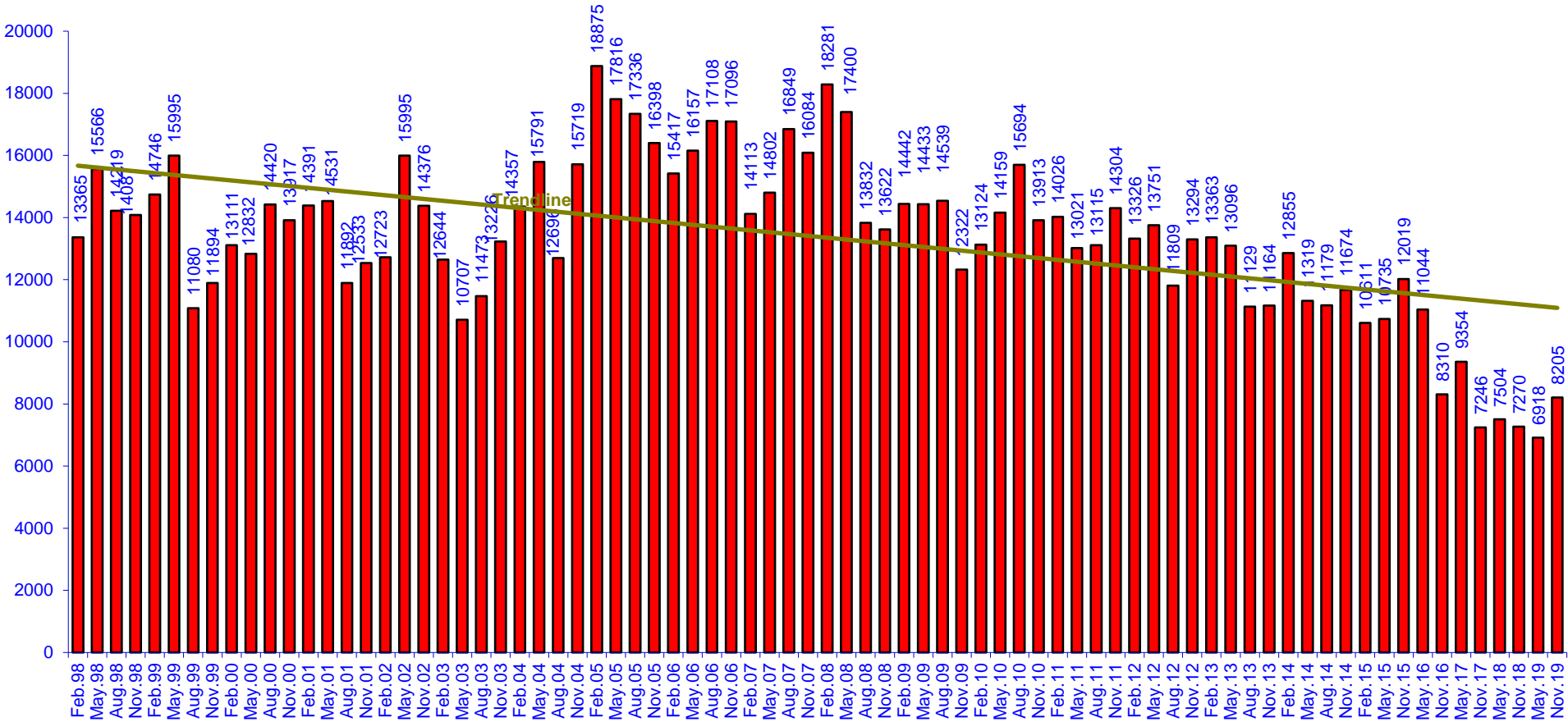


Total Volume (Cubic Metres) of Litter

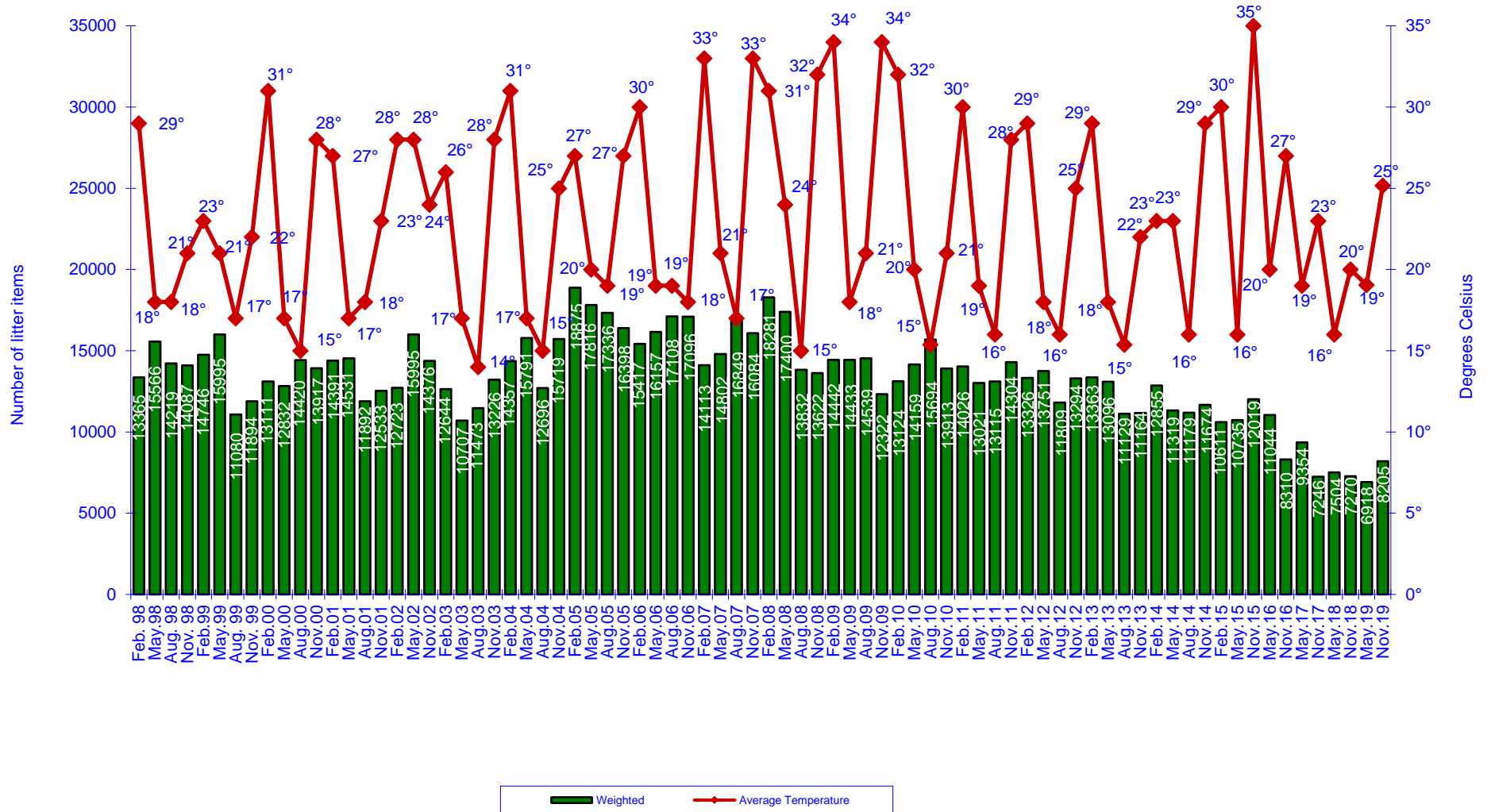


Weighted Tracking Graphs - Items

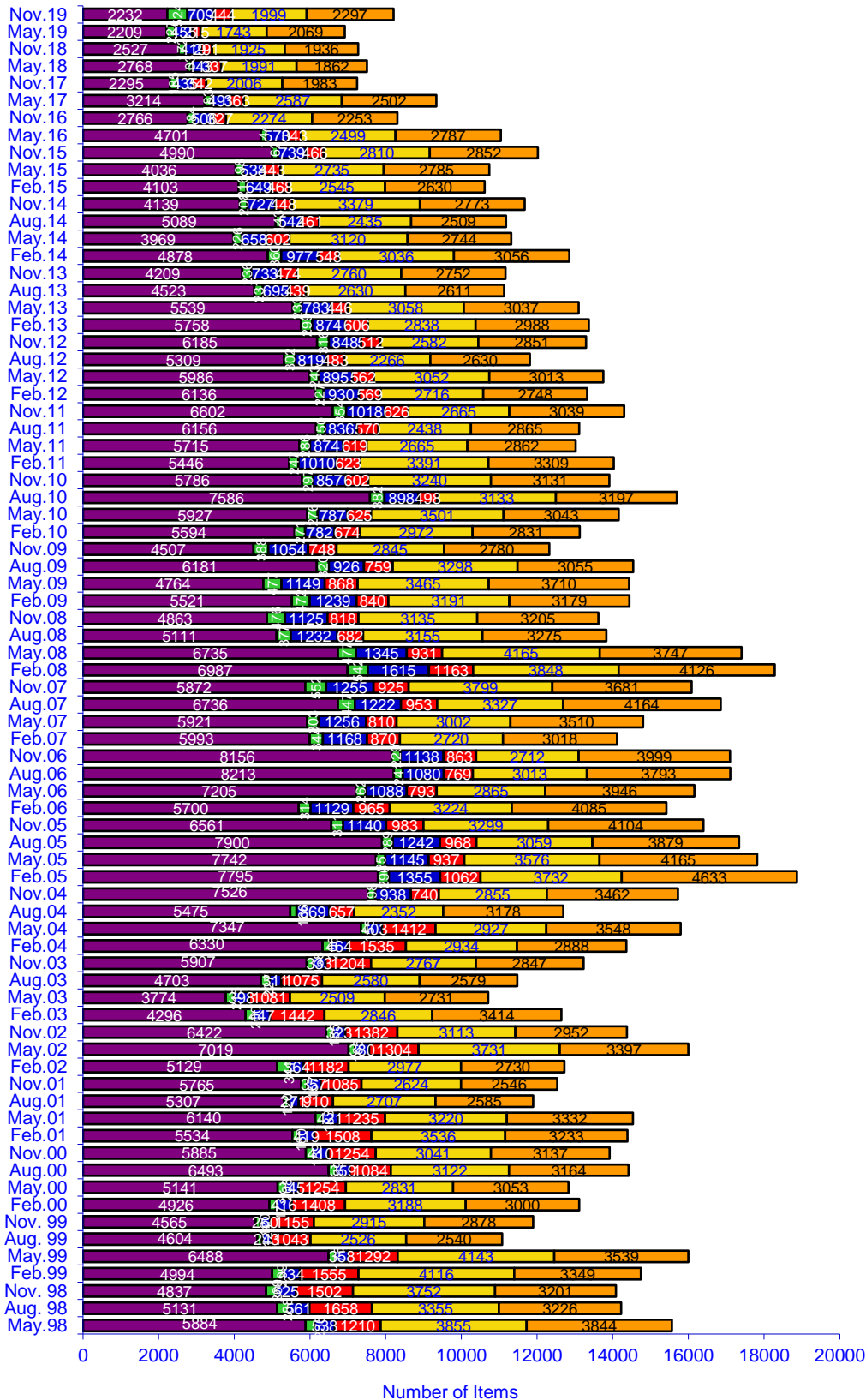
Total Litter - Number of Items - Weighted



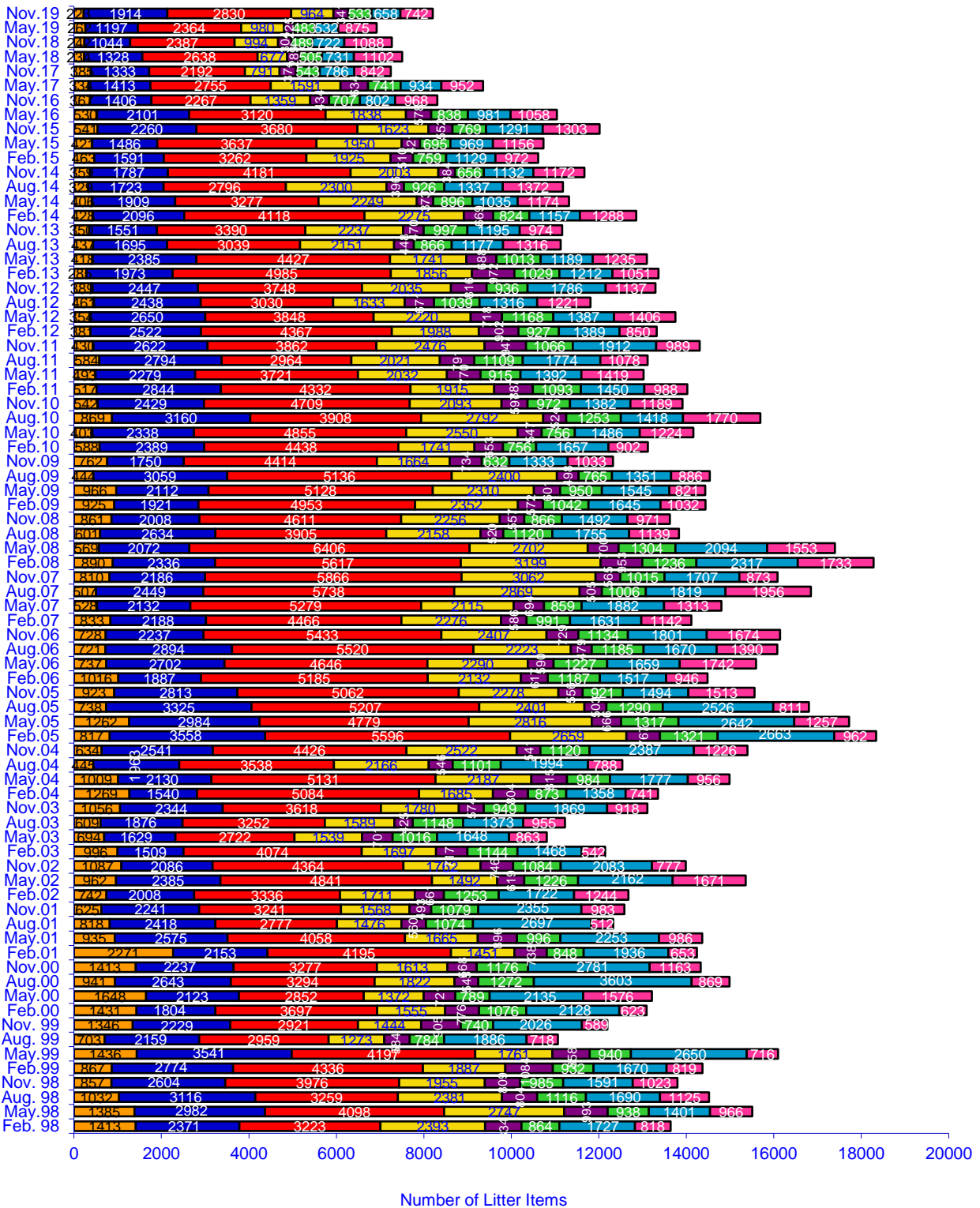
Weather Temperature and Total Number of Litter Items - Weighted



Number of Litter Items by Material Type - Weighted

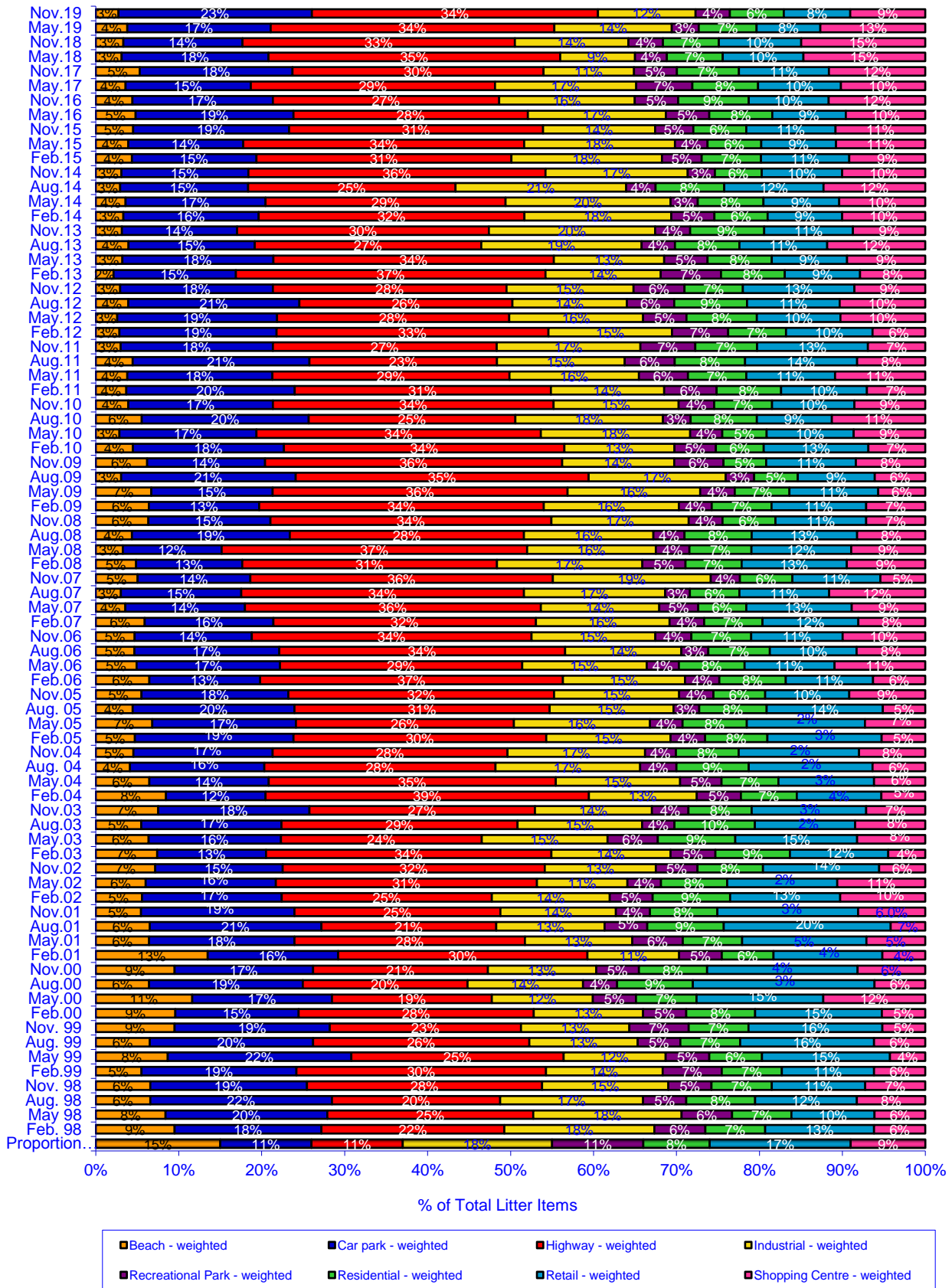


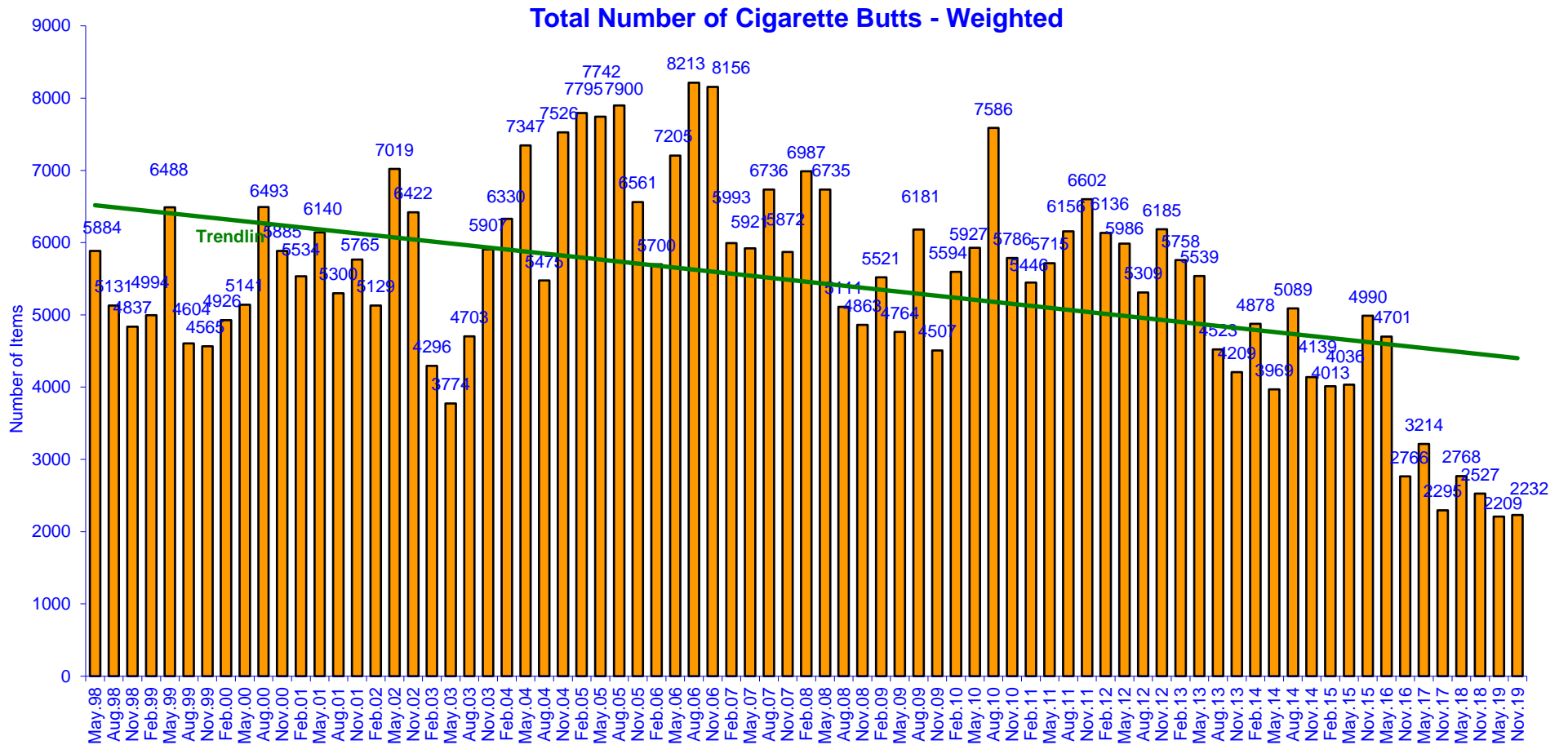
Number of Litter Items by Site Type - Weighted



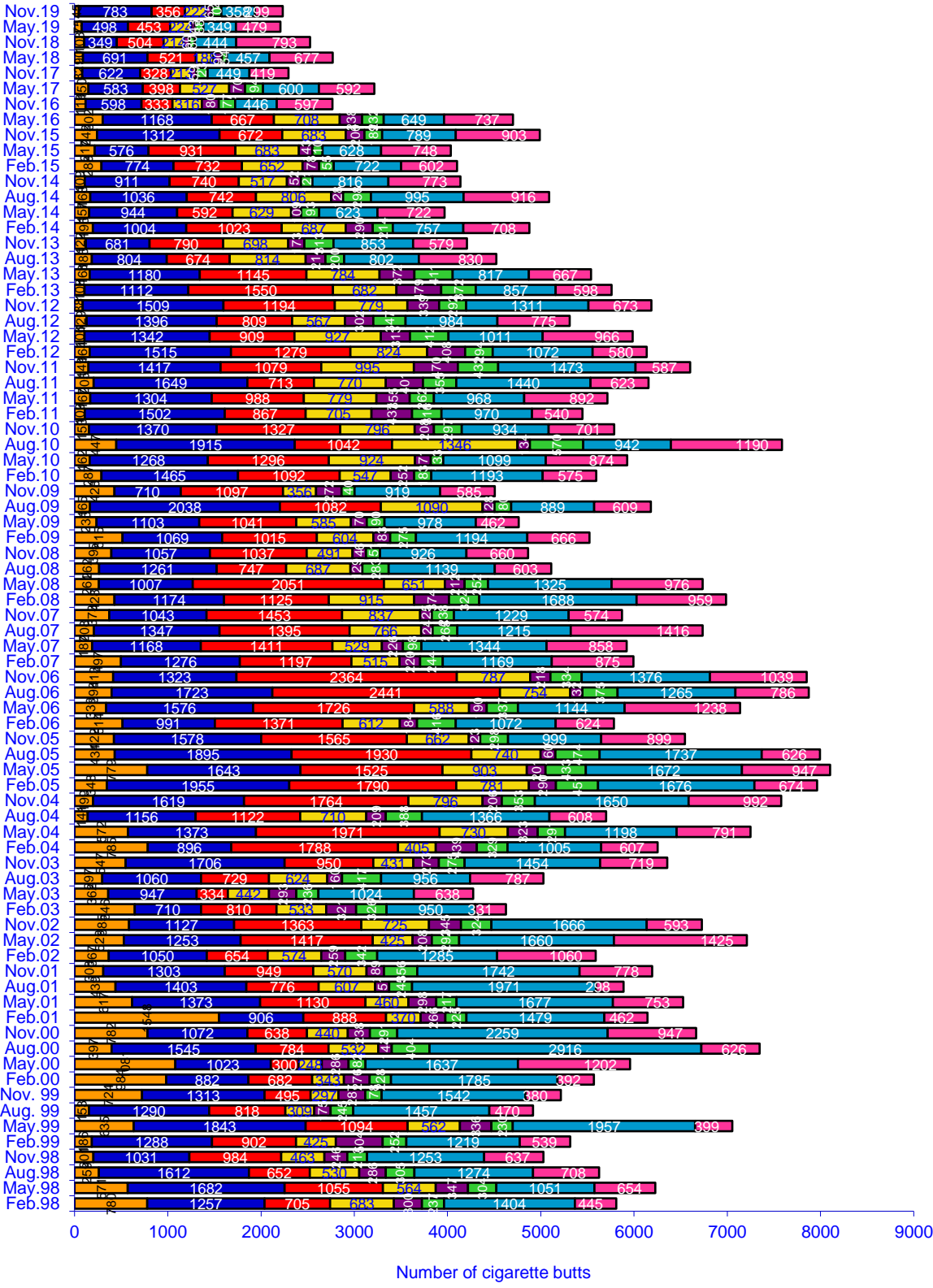
- Beach - weighted
- Car park - weighted
- High way - weighted
- Industrial - weighted
- Recreational Park - weighted
- Residential - weighted
- Retail - weight
- Shopping Centre - weighted

Proportion of Total Litter by Site Type - Weighted



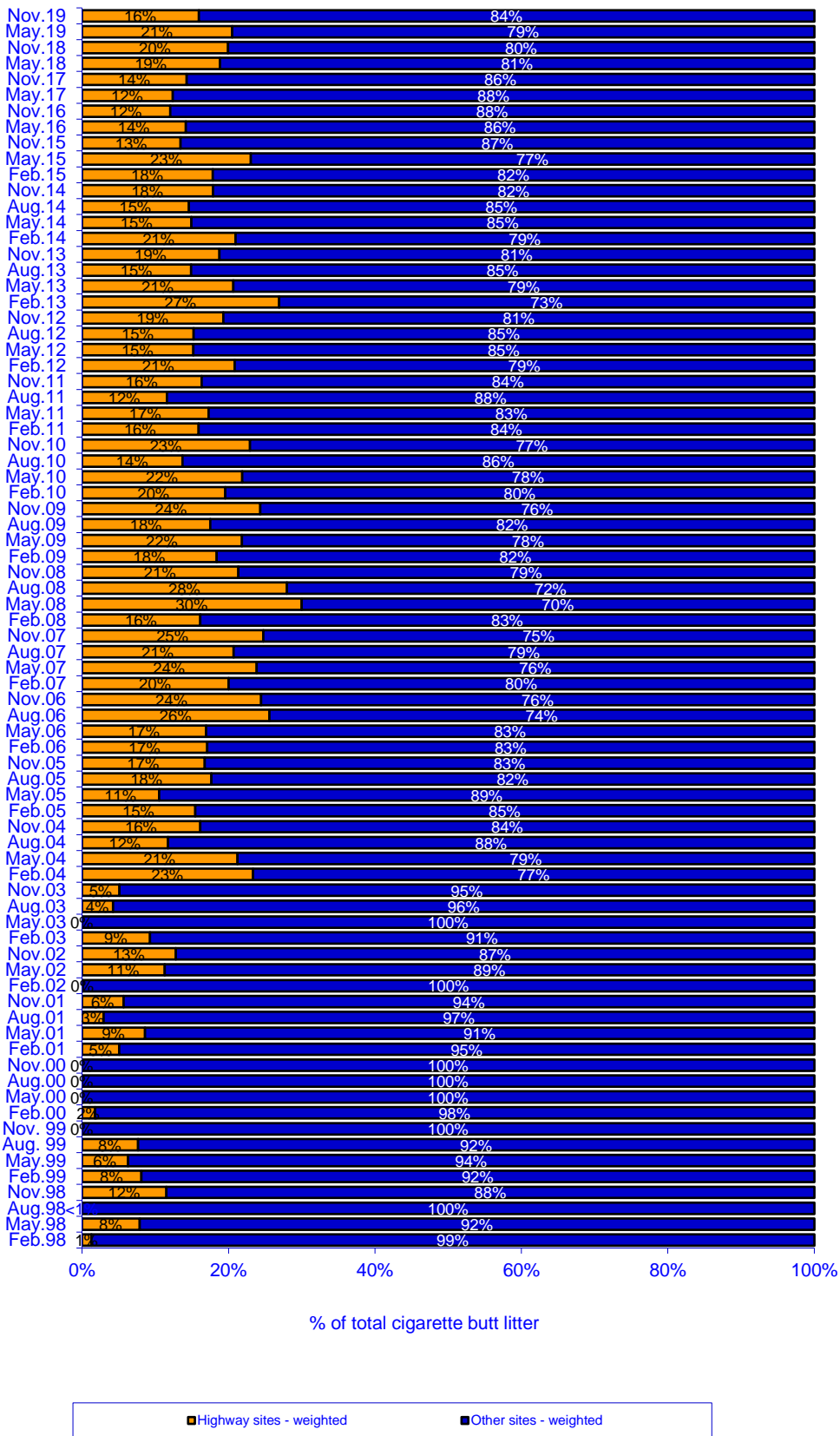


Number of Cigarette Butts by Site Type - Weighted

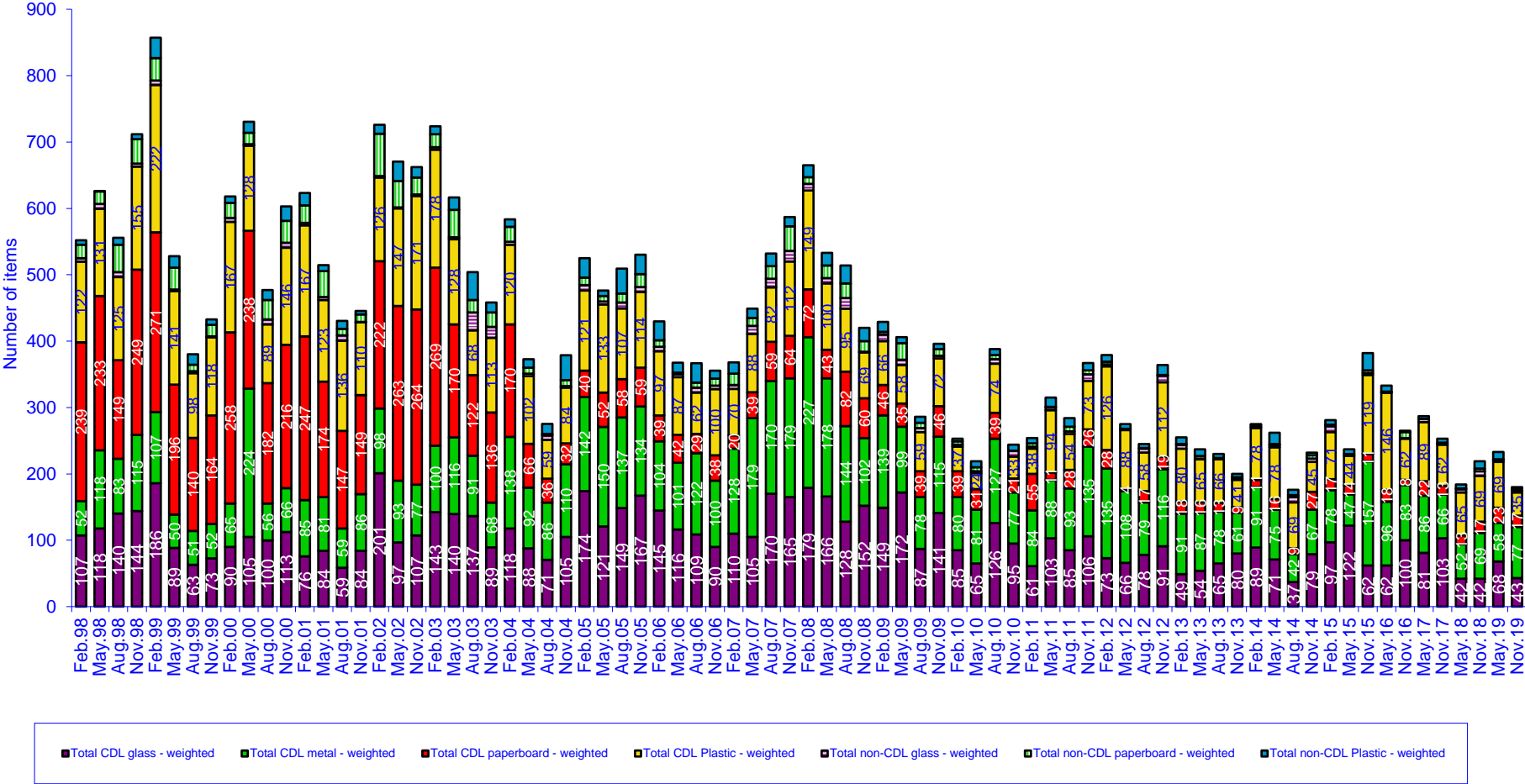


Beach - weighted	Car park - weighted	Highway - weighted	Industrial - weighted
Recreational Park - weighted	Residential - weighted	Retail - weighted	Shopping Centre - weighted

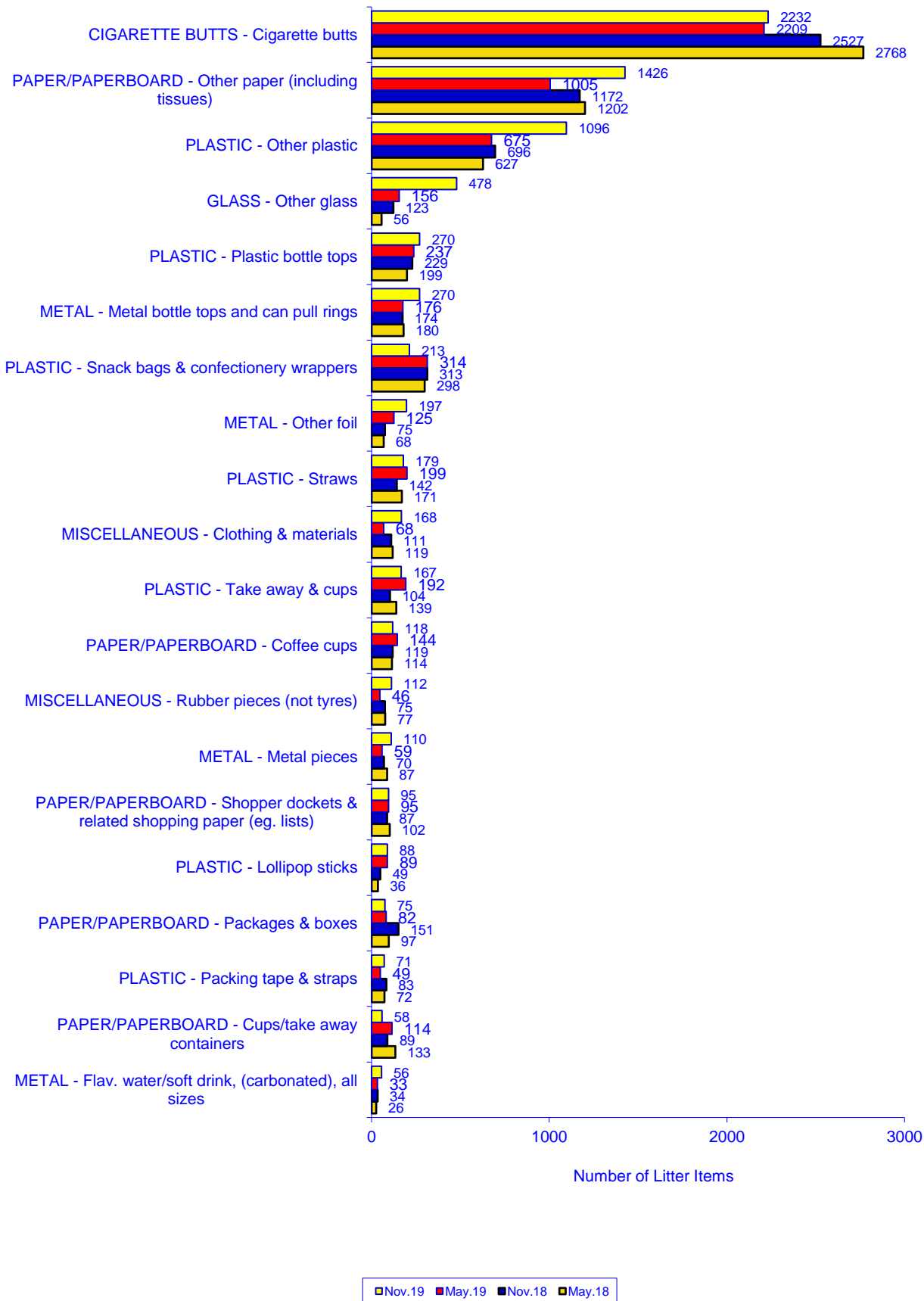
Proportion of Total Cigarette Butt Litter at Highway sites & Other sites - Weighted



CDL and Non-CDL Beverage Items Within Material Categories - Weighted

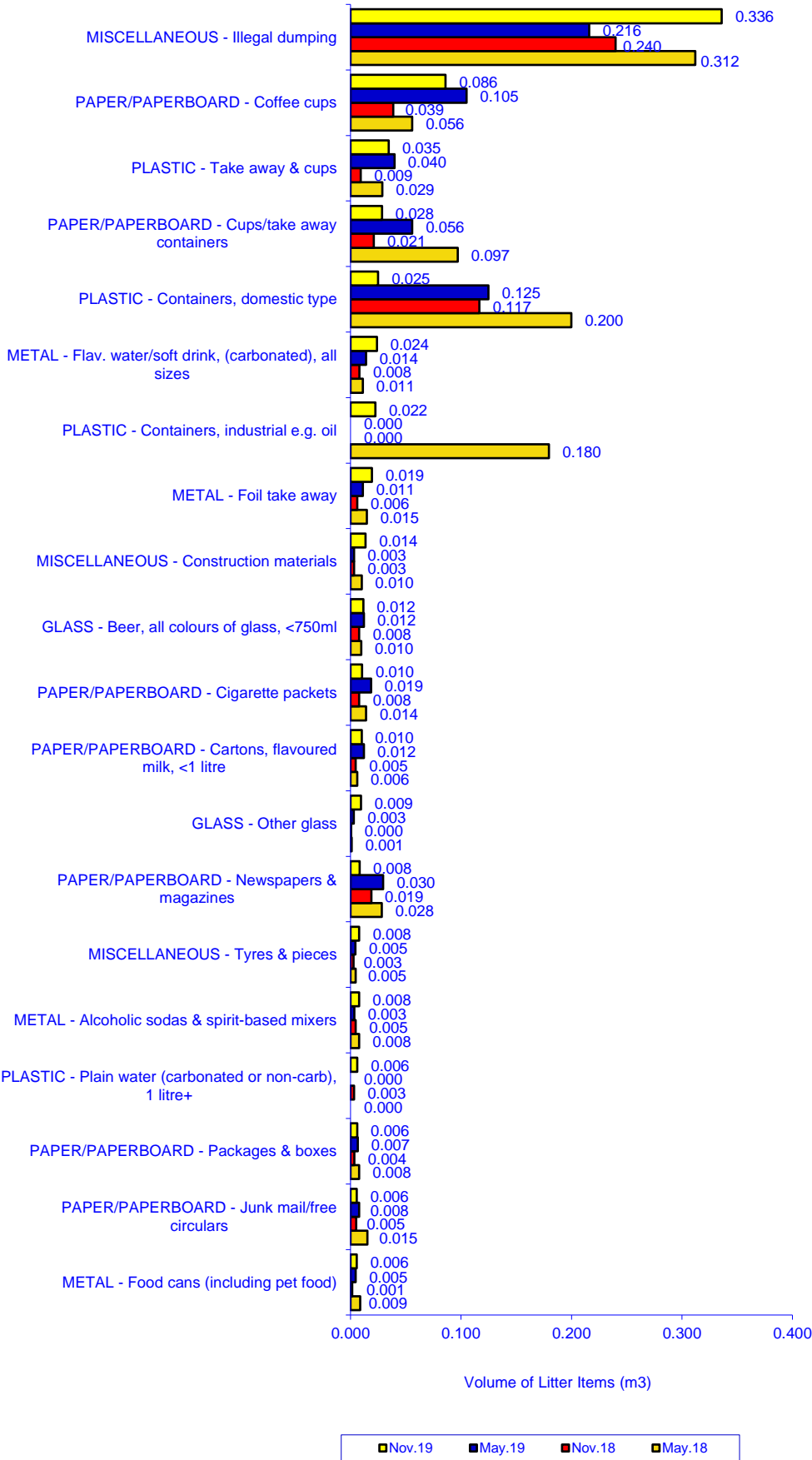


Top 20 Litter Items - Highest Counts - Weighted

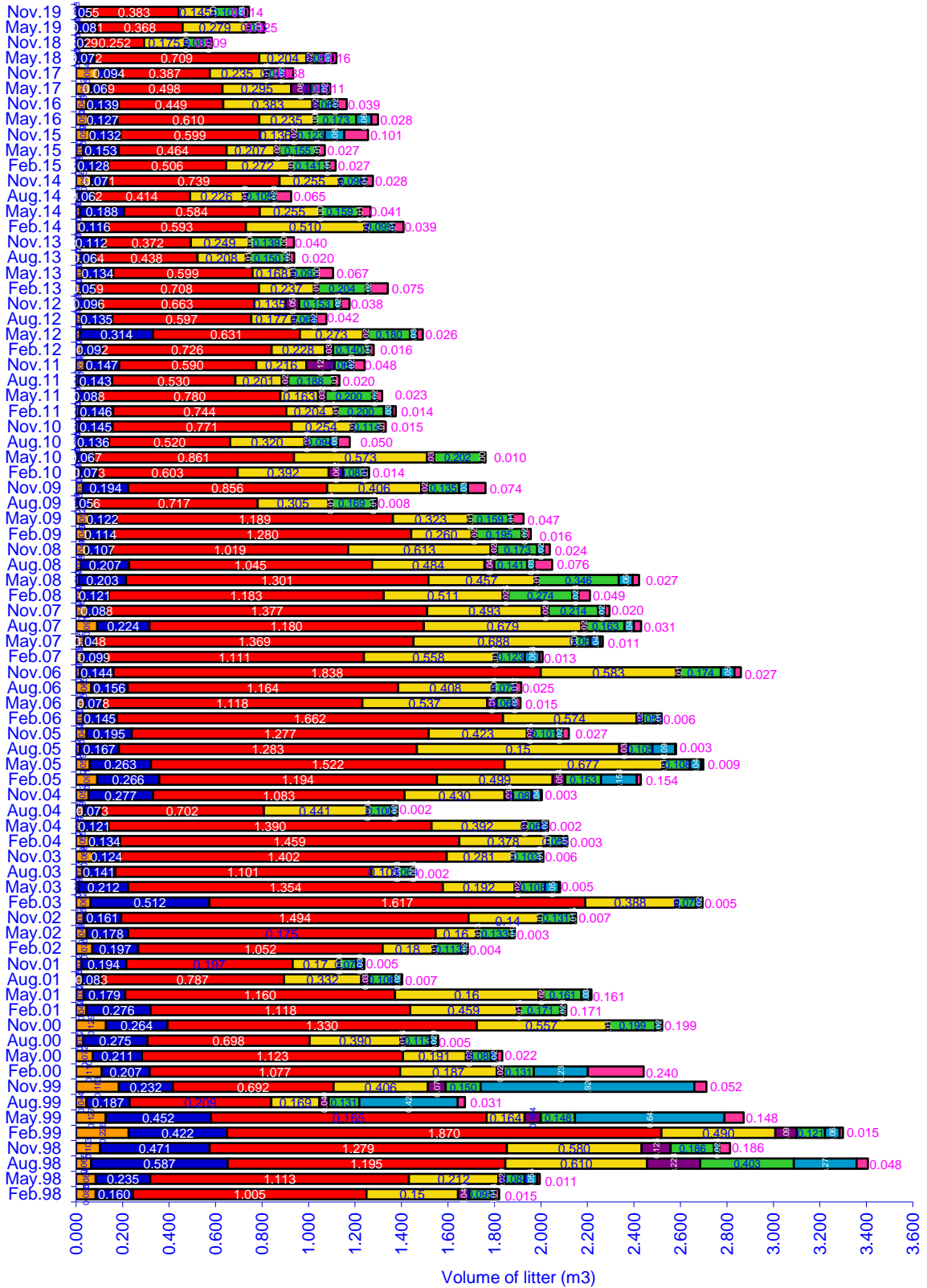


Weighted Tracking Graphs - Volumes

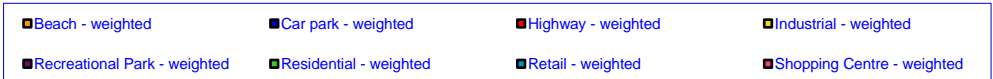
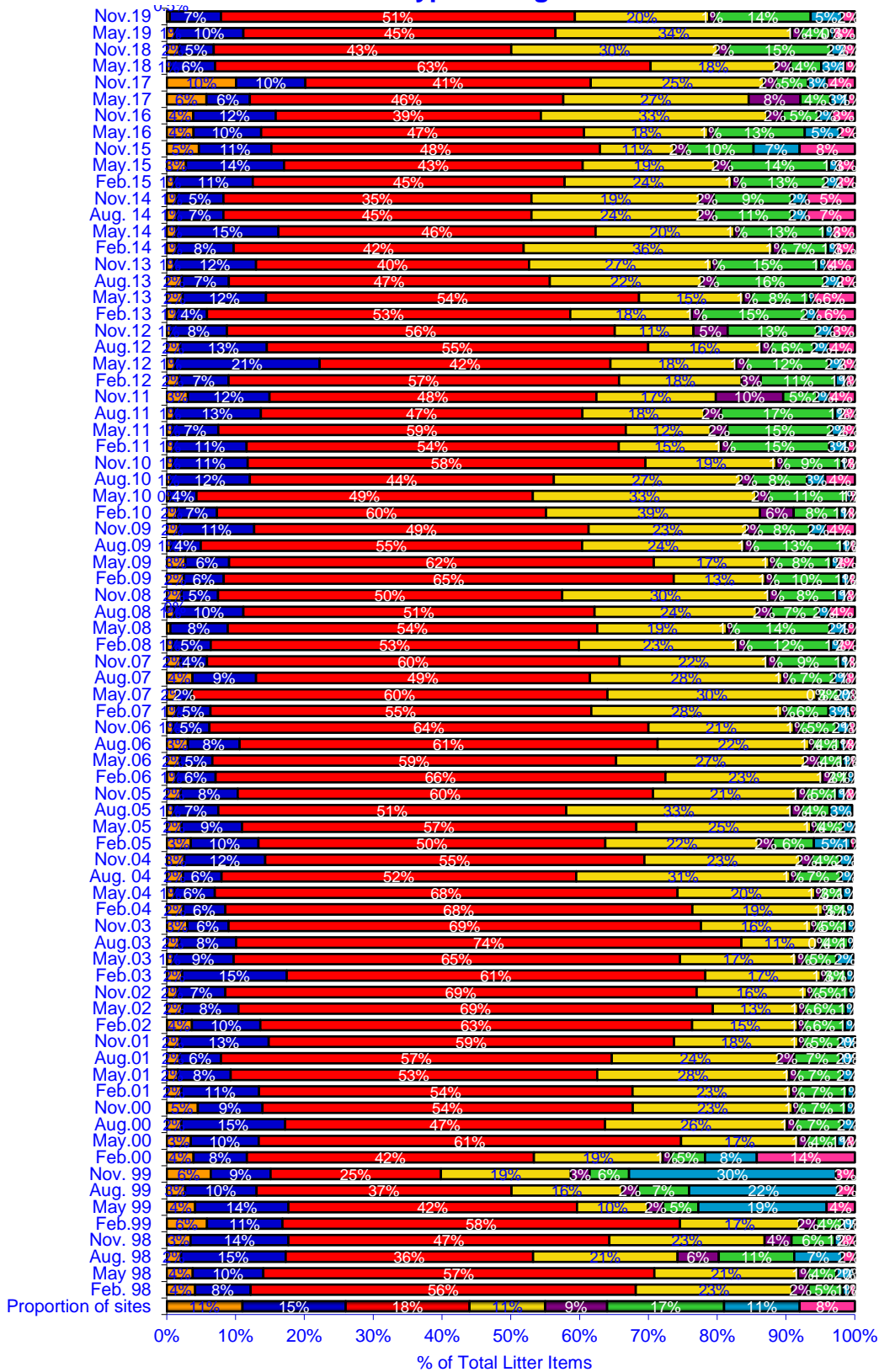
Top 20 Litter Items by Volume - Weighted



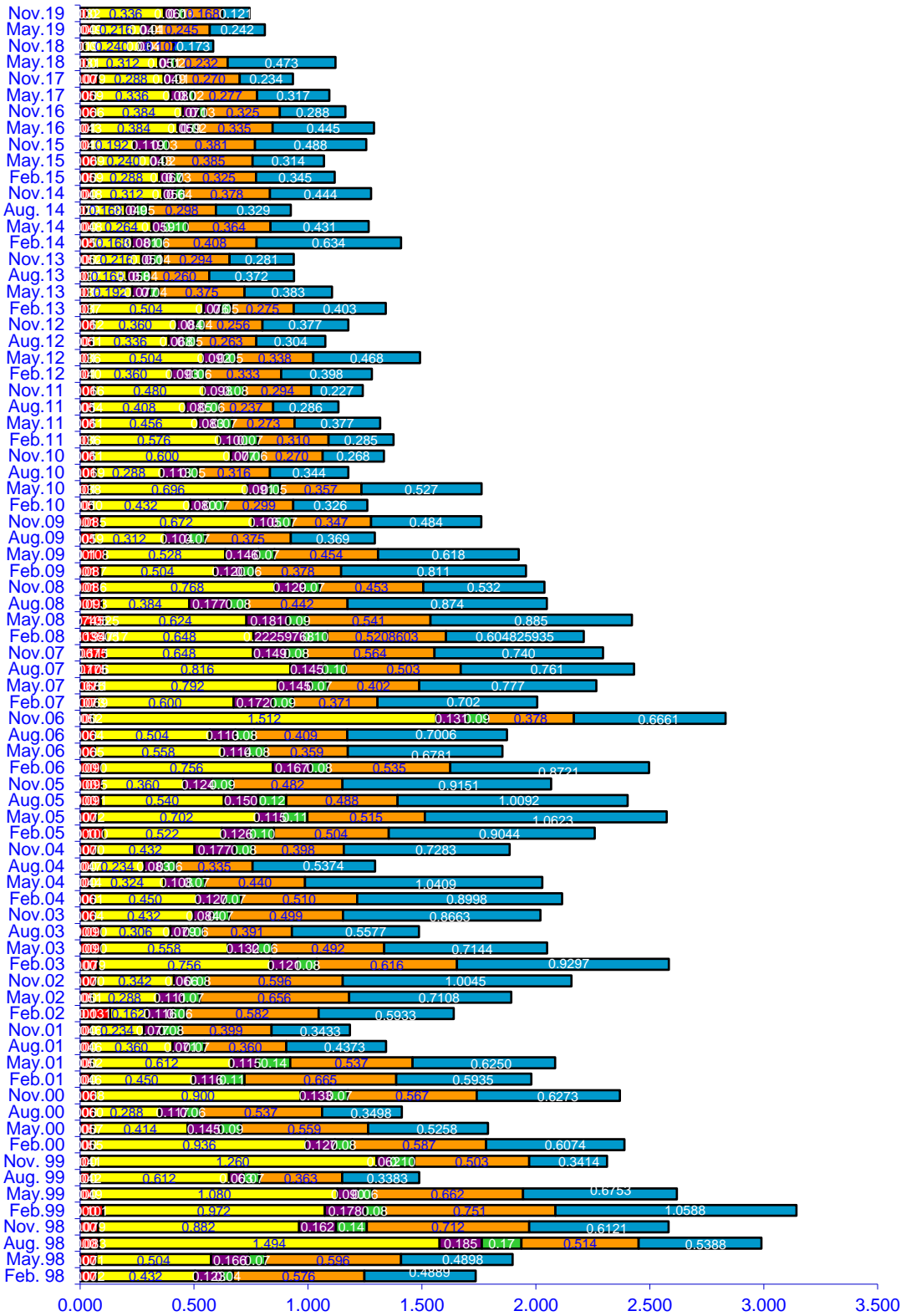
Volume of Litter by Site Type - Weighted



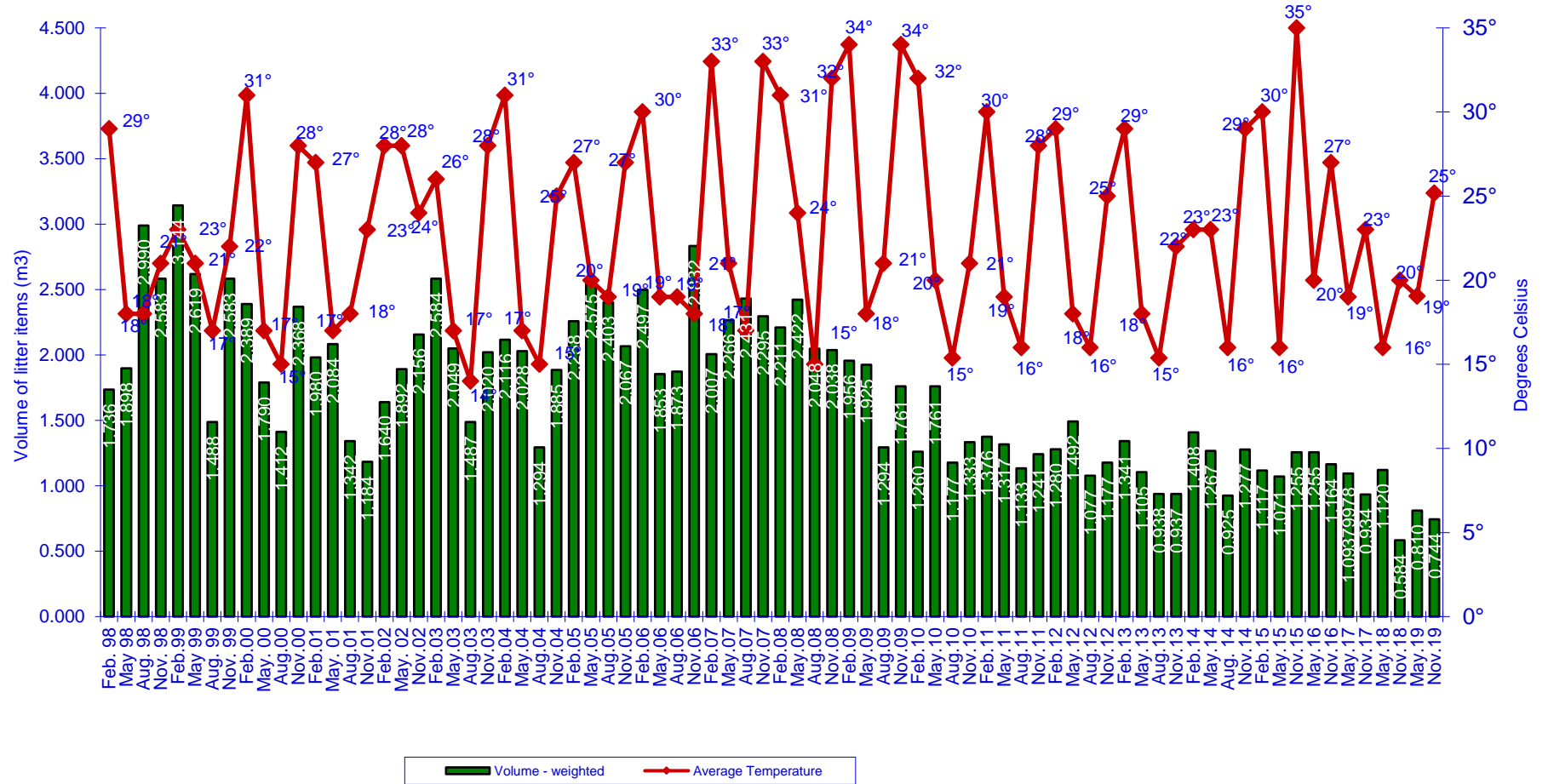
Proportion of Litter Volume in Total Litter Stream by Site Type - Weighted



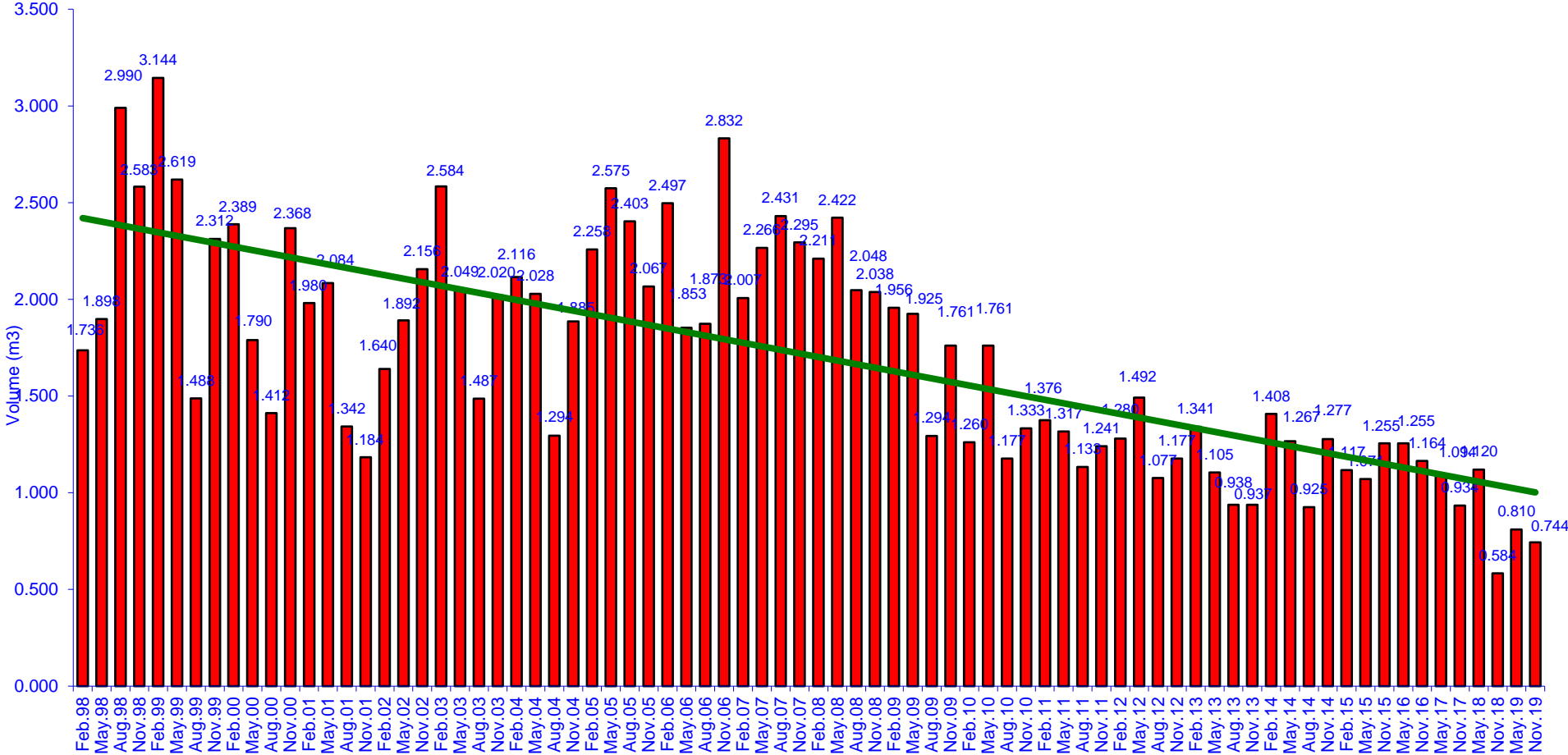
Volume of Litter Items by Material Type - Weighted



Weather Temperature and Total Volume of Litter Items - Weighted



Total Volume (Cubic Metres) of Litter - Weighted



Appendix 2: Data Collection Form

KESAB - LITTER COUNT COVER SHEET

SITE CODE:

PLEASE ENSURE THAT A COPY OF THIS COVER SHEET IS FILLED OUT AND ATTACHED TO THE COMPLETED LITTER COUNT FORM FOR EVERY SITE.

Date of count: ___/___/___ Site description: _____

Site responsible person: _____

Wet? (Y/N)

Windy? (Y/N)

Temp? °C

Conditions: (Circle appropriate numbers)

1. Area appeared to be cleaned before count.
2. Area was mowed before count causing proliferation
3. Very recent storm/flood damage litter build-up
4. Very recent or current high winds causing build-up
5. Recent public event held in area – **specify:** _____
6. Uncovered load spilled in area causing litter

Please record number and type of bins in site area

No. of litter bins: _____

No. of butt bins: _____

No. and type of other bins: _____

Illegal dumping incidents (Xc)

No. of Illegal dumpings:

Illegal dumpings description:

Plastic Domestic Containers (Pm)

No. of incidents:

Description:

Plastic Industrial Containers (PI)

No. of incidents:

Messages:

Litter Signage

No. of signs:

Messages:

Graffiti

None

Medium (2m² to 10m²)

Low (less than 2m²)

High (more than 10m²)

(REF: 10705)

SITE CODE:				SITE RESPONSIBLE PERSON:				DATE:			
Item Type		Brand	Work Area	Total	Item Type		Brand	Work Area	Total		
GLASS	Ga	Plain water (carbonated or non-carb.), 1 litre+	NONE		METAL	Ma	Beer, aluminium, all types, all sizes				
	Gb	Plain water (carbonated or non-carb.), <1 litre	NONE								
	Gc	Flavoured water/soft drink (carbonated) 1 litre+	NONE					Mb	Alcoholic sodas & spirit-based mixers		
	Gd	Flavoured water/soft drink (carbonated) <1 litre	NONE								
	Ge	Flav. water / fruit juice drink/ sports drink, (non carb), 1 litre+	NONE			Mc	Cider/fruit based etc.				
	Gf	Flav. water / fruit juice drink/ sports drink, (non carb), <1 litre	NONE								
	Gg	Fruit juice, 1 litre or more	NONE			Md	Water, carbonated & flavoured/soft drink				
	Gh	Fruit juice, < 1 litre	NONE								
	Gi	Wine cooler, all sizes	NONE			Me	Water, non-carbonated & flavoured, all sizes				
	Gj	Alcoholic sodas / spirit-based mixers, all sizes	NONE								
	Gk	Cider/fruit based etc.	NONE			Mf	Food cans (including pet food)				
	Gl	Wine & spirit, all sizes	NONE								
	Gm	Beer, 750ml or more, all colours of glass	NONE			Mg	Industrial cans - all types				
	Gn	Beer, < 750ml, all colours of glass	NONE								
	Go	Other glass	NONE			Mh	Aerosols – pressure packs				
	CIGARETTE BUTTS							MISCELLANEOUS	Mi	Metal bottle tops and can pull rings	
				Mj	Metal pieces						
				Mk	Foil take away						
				Ml	Other foil						
				Xa	Tyres & pieces						
			Xb	Clothing & materials							
			Xc	Illegal dumping							
			Xd	Syringes - Do Not Touch							
			Xe	Ice creamsticks							
			Xf	Rubber pieces (not tyres)							
			Xg	Condoms							
			Xh	Construction materials							
			Xi	Disposable nappies							
				OTHER MISC -(Please specify item types and brands below)							

PAPER / PAPERBOARD					PLASTIC				
Item Type	Brand	Work Area	Total	Item Type	Brand	Work Area	Total		
Ka Packages & boxes	NONE			Pt Plain water (carbonated or non-carb), 1 litre+	NONE				
Kb Cigarette packets	NONE			Pg Plain water (carbonated or non-carb), <1 litre	NONE				
Kc Cartons, milk, plain (white), all sizes	NONE			Ph Flav. water/soft drink (carbonated) 1 litre+	NONE				
Kd Cartons, flavoured milk, 1 litre+	NONE			Pi Flav. water/soft drink (carbonated) <1 litre	NONE				
Ke Cartons, flavoured milk, <1 litre	NONE			Pj Flav. water/fruit juice drinks, sports drinks etc. (non-carb), 1 litre+	NONE				
Kf Cartons, flav. water/fruit juice drink/sports drink, (non-carb), 1 litre+	NONE			Pk Flav. water/fruit juice drinks, sports drinks etc. (non-carb), <1 litre	NONE				
Kg Cartons, flav. water/fruit juice drink/sports drink, (non-carb), <1 litre	NONE			Pl Containers, industrial e.g. oil	NONE				
Kh Cartons, fruit juice, 1 litre+	NONE			Pm Containers, domestic type	NONE				
Ki Cartons, fruit juice, <1 litre	NONE			Pn Bags - light weight plastic shopping type carry bags	NONE				
Kj Newspapers & magazines	NONE			Po Bags - heavier glossy typically branded carry bags	NONE				
Kk Junk mail / free circulars	NONE			Pp Sacks - sheeting - other bags	NONE				
Kl Coffee cups	NONE			Pq Wine cask bladders	NONE				
Kr Other cups/take away containers	NONE			Pr Straws	NONE				
Km Tickets, e.g. bus, ATM, vending machine etc.	NONE			Ps 6 ring can holders	NONE				
Kn Ice cream wrappers	NONE			Pt Snack bags & confectionery wrappers	NONE				
Ko Paper bags	NONE			Pu Styrene foam boxes, sheets, etc.	NONE				
Kp Shopper docket & related shopping paper (eg, lists)	NONE			Pv Packing tape & straps	NONE				
Kq Other paper (including tissues)	NONE			Pw Take away & cups	NONE				
Pa White milk, all sizes	NONE			Px Plastic bottle tops	NONE				
Pb Flavoured milk, 1 litre+	NONE			Py Bread bag tags	NONE				
Pc Flavoured milk, <1 litre	NONE			Pz Lollipop sticks	NONE				
Pd Fruit juice, 1 litre+	NONE			P1 Spoons/cutlery	NONE				
Pe Fruit juice, <1 litre	NONE			P2 Drink pouches	NONE				
	NONE			P3 Other plastic	NONE				