

Western Australia
Local Government
Waste and Recycling

census

as reported by local governments

2012-13



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Government of Western Australia
Department of Environment Regulation



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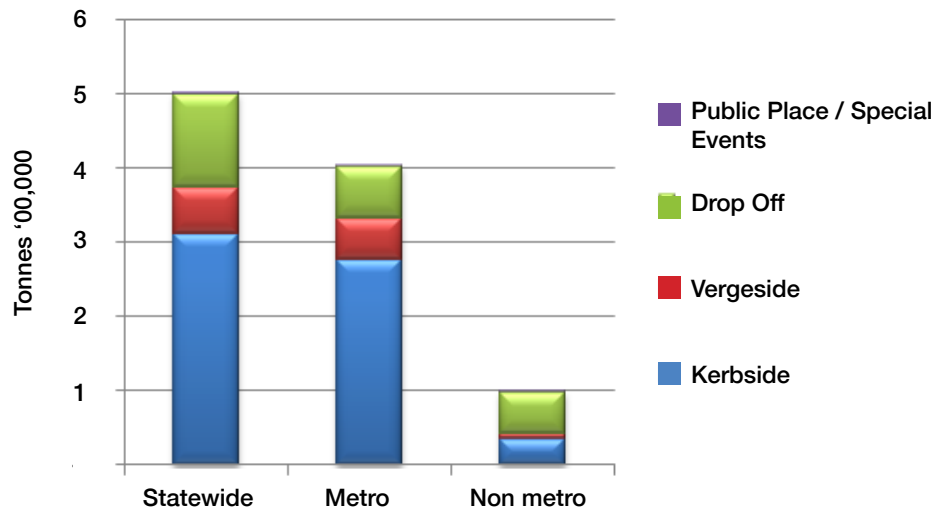


Figure 1 Quantity of recovered materials disaggregated by collection service

The Department of Environment Regulation (formerly the Department of Environment Conservation) conducts an annual census of the waste and recycling (W&R) services provided to households and commercial premises by local government and constituted regional councils in Western Australia. This report presents the results of the 2012-13 census.

The key results from the report are:

The response rate for the 2012-13 census was 99%, with all 30 metropolitan local governments submitting data.

In 2012-13 Western Australian households generated just under 1.5 million tonnes of waste, equivalent to around 29kg per household per week.

Across the State, around 1 million tonnes of household W&R materials were collected by kerbside services. Householders self-hauled another 318,000 tonnes to W&R drop off facilities and around 143,000 tonnes were collected from vergeside pick up services. A small proportion (2%) of W&R materials were collected by councils from public place bins and from sporting and entertainment events.

Around 67% of all W&R materials collected was disposed of to landfill.

The overall recovery rate for the State was 33% (499,000 tonnes). Metropolitan local governments had a recovery rate of 39% and non-metropolitan local governments had a recovery rate of 20%.

Most recovered materials were collected in the metropolitan area, where the majority of recovered materials were collected by kerbside services (68%). In non-metropolitan local governments the majority (57%) of recovered materials were collected from drop-off services. Figure 1 (opposite) shows the quantity of recovered materials disaggregated by collection service.

The Department of Environment Regulation (DER), formerly the Department of Environment Conservation, conducts an annual census of the waste and recycling (W&R) services provided to households and commercial premises by local government and constituted regional councils in Western Australia.

Between August and October 2013, DER collected various data on the W&R services provided during the 2012-13 financial year from local governments in Western Australia.

Information from the census is used by the State Government for:

- the development of policy and programs by DER and the Waste Authority
- the development of policy by the Office of the Minister for Environment
- monitoring progress towards the Waste Strategy targets
- reporting to the Standing Council on Environment and Water on the Implementation of the National Environmental Protection (Used Packaging Materials) Measure.

Where local governments have consented, census data is provided to the Western Australia Local Government Association (WALGA) and the Forum of Regional Councils (FORC).

This report summarises information as reported in the annual census by local governments for financial year 2012-13, as follows:

- Sections 2 and 3 provide details of the census, sources of other relevant data, and census participation.
- Section 4 summarises householder waste generation and recovery for 2012-13 and trends, and provides a check against progress towards the State's waste strategy municipal waste targets.
- Section 5 provides a summary of the total quantities of W&R materials collected, disposed to landfill, and recovered by type of service provided by the metropolitan and non-metropolitan local governments.
- Sections 6, 7, 8 and 9 present a brief summary of each type of W&R service provided by local government to their residents and the quantities of waste collected by these services.
- Section 10 describes the type and quantity of recovered materials collected by local governments.
- Section 11 summarises the costs to local government to deliver W&R services and also householder charges.
- Sections 12, 13 and 14 provide information on waste audits, W&R initiatives and littering and illegal dumping managed by local governments.

The Waste Authority and DER acknowledge the cooperation of local governments in providing the information summarised in this report.

2 Census details and other data sources

DER distributed and collected the 2012-13 census forms, and undertook data consolidation and analysis.

The 2012-13 census form is composed of nine sections, namely:

Section A	Participant's contact details
Section B	Waste and recycling services for domestic premises
Section C	Materials recycled
Section D	Waste audits
Section E	Annual cost and charges of collection/processing and disposal of domestic materials
Section F	Waste and recycling services for commercial premises
Section G	General information on local government's waste and recycling management
Section H	Littering and illegal dumping

Feedback on the completeness and consistency of data was provided to councils. Considerable effort was made to verify the data through emails and phone calls. However, as no data validation was conducted, the accuracy of measurements and estimates provided by local government cannot be guaranteed.

Local governments not equipped to measure the quantity of W&R materials they handled were encouraged to provide estimates based on documented information such as recent waste composition audits and historical data.

In 2012-13, DER provided local governments with example calculations of estimates. Many local governments used these examples as a basis to estimate the amount of waste collected from commercial premises. In previous census years, this waste may have been reported as waste collected from householders.

Many local governments obtained W&R data from their waste contractors. This third party data may not have been audited by the local government and has not been validated by DER.

Some local governments were not able to provide complete information on tonnages and other information such as costs and charges. This may be due to the absence of an established W&R data management system and/or the lack of staff whose function specifically included monitoring and reporting W&R services.

Waste and recycling figures from previous years used in this report were obtained from earlier Department of Environment and Conservation surveys of local government waste and recycling activities (2013, 2012 & 2008).

Since 2011, DER has been working with consultants (Encycle Consulting) to raise awareness and improve W&R data collection and management within local governments. This work has included workshops, one to one reviews of W&R data management systems and the development of online resources to assist local governments. Improvements to W&R data management within local governments confound the analysis of W&R trends over time.

In this report, W&R tonnages per person and per household are presented. The projected population and number of households in each local government for 2012-13 were obtained from the Western Australian Planning Commission (Mulholland, 2012). The statistics for the Shires of Christmas Island and the Cocos (Keeling) Islands were obtained from the *Western Australian Local Government Directory 2012* (Western Australian Local Government, 2012).

3 Local government participation

A 99% census participation rate was achieved for the 2012-13 financial year. Only one local government authority, the Shire of Ngaanyatjarraku, did not provide a survey response. All metropolitan local governments responded to the survey.

Table 3-1 shows the number of participating local governments and regional councils in the metropolitan and non-metropolitan regions across the State.

Type of Council	Number of local governments		
	Total	Participating	% Participation
Metropolitan			
Local government	30	30	100
Regional Councils	5	5	100
Non-metropolitan			
Local government	110	109	99
Regional Councils ¹	3	3	100
Total	148	147	99

¹ Not all regional councils provide services to residents. Some of these councils provided only contact details and confirmation of no services offered via email rather than completing the census.



4 Total domestic waste generation & recovery

In 2012-13, Western Australian householders generated just under 1.5 million tonnes of waste. This is equivalent to each Western Australian household generating around 29kg of waste every week. Metropolitan local governments were responsible for collecting 68% of the material, with 32% collected by local governments outside the metropolitan area.

In the metropolitan area 39%, or around 404,000 tonnes, of this waste generated by householders was recovered for recycling. Outside the metropolitan area, 20% or around 95,000 tonnes of householder waste was recovered for recycling, and the majority of these materials (69,000 tonnes or 72%) were collected in major regional centres ².

Tables 4-1 and 4-2 present the quantities of householder waste collected, disposed to landfill and recovered by local government authorities in 2012-13.

Table 4-3 shows that total reported waste generation by Western Australian households has increased over the past seven years from around 1.35 million tonnes in 2006-07 to around 1.5 million tonnes in 2012-13. Over the same period, annual waste generation per person has decreased from 0.66 tonnes per person in 2006-07 to 0.61 tonnes per person in 2012-13. Reported recovery of materials has also increased from around 338,200 tonnes to 499,000 tonnes in 2013-14. Trend data should be interpreted with caution, as over time local governments have worked towards improving the quality of data reported to the census.

² Defined in this report as having a population of greater than 10,000 residents.

Geographic Region	Collected	Landfill	Recovered	Recovery Rate
Statewide	1,495,235	996,054	499,181	33%
Metropolitan	1,023,390	619,580	403,810	39%
Non-metropolitan	471,845	376,474	95,371	20%

Table 4-1
Total tonnes of domestic waste collected, disposed to landfill and recovered in 2012-13

	Statewide	Metropolitan	Non-Metropolitan
Population	2,464,232	1,824,500	639,732
Households	986,024	728,720	257,304
Domestic waste generation per person	0.61	0.56	0.74
Landfill per person	0.40	0.34	0.59
Recovered per person	0.20	0.22	0.15
Domestic waste generation per household	1.52	1.40	1.83
Landfill per household	1.01	0.85	1.46
Recovered per household	0.51	0.55	0.37

Table 4-2
Domestic waste collection, disposal and recovery as tonnes per capita and per household in 2012-13

Census Year	Waste Generation (tonnes)		Recovery (tonnes)	
	Statewide	Per Person	Statewide	Per Person
2006-07 ³	1,353,420	0.66	338,200	0.16
2010-11	1,416,301	0.60	443,090	0.19
2011-12	1,536,648	0.64	565,604	0.23
2012-13	1,495,235	0.61	499,181	0.20

Table 4-3
Statewide total Waste generation & Recovery

³ Population reference used here (Mulholland, 2012) is different to that used in the original report (DEC 2008), so per person waste generation & recovery figures are different to those quoted in the original report

4.1 Waste strategy targets

The *Western Australian Waste Strategy Creating the Right Environment* (WA Waste Authority 2012) has recovery-based targets for the municipal sector (principally householder generated waste). The Strategy has a recovery target of 50% for the metropolitan area in 2015 and 30% in major regional centres. Recovery rates have increased from 29% in metropolitan areas and 17% in non-metropolitan areas in 2006-07 to 39% and 20% respectively in 2012-13. Recently constructed recovery infrastructure such as Alternative Waste Treatment plants and Material Recovery Facilities (see Section 13 for details), and programs such as the Waste Authority's Better Bins program (launched January 2014) should see the recovery rate increase in areas with access to these facilities and programs.

5 Waste and recycling services to households

In this report, waste and recycling (W&R) materials collected by local government are differentiated according to the type of collection service, namely:

- Kerbside
- Vergeside
- Drop-off
- Public place and special events (PP&SE).

Collected materials are further disaggregated according to their destination, namely:

- Disposed to landfill
- Recovered for recycling or re-use.

5.1 Collection of waste and recycling materials

Figure 5-1 shows the Statewide local governments' total W&R collection by type of service and a comparison of the collection levels by the metropolitan and non-metropolitan local governments.

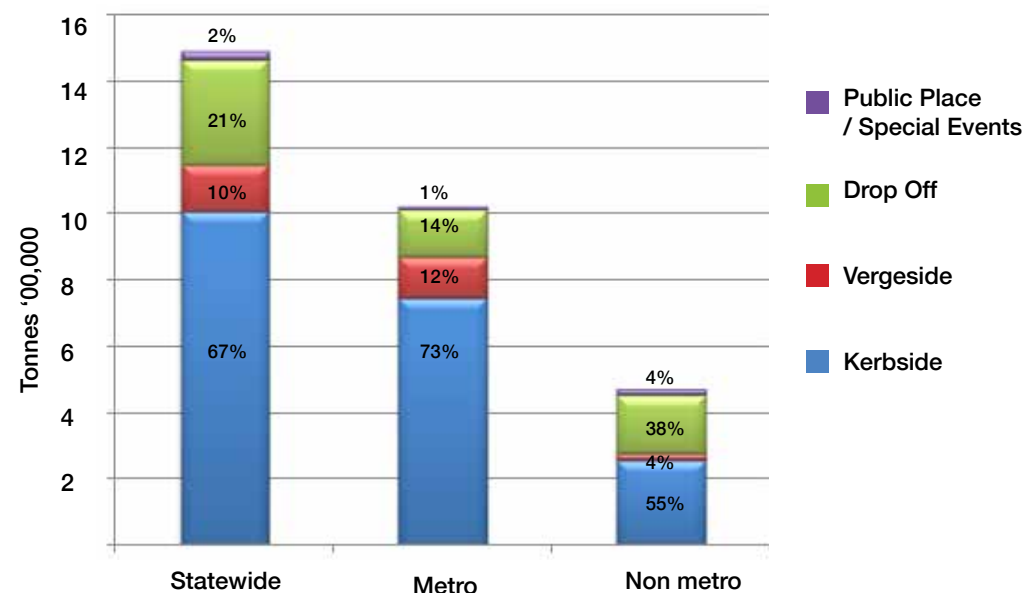


Figure 5-1 Quantity of W&R materials collected by service type across the State, and in the metropolitan and non-metropolitan local governments

Appendix A lists the waste and recycling services provided by individual local governments to their residents.

In summary

Statewide:

- Total kerbside collection was about 1 million tonnes or 67% of the total collection across the State
- Drop-off collection contributed about 318,00 tonnes or 21%
- Vergeside collection was about 143,00 tonnes or 10%
- PP&SE collection was about 28,000 tonnes or 2%.

Of the total W&R materials collected by metropolitan councils:

- Kerbside collection was about 749,000 tonnes or 73%
- Drop-off collection contributed about 141,000 tonnes or 14%
- Vergeside collection about 123,000 tonnes or 12%
- PP&SE was about 11,000 tonnes or 1%.
- Vergeside collection was about 20,000 tonnes or 4%
- PP&SE was about 17,000 tonnes or 4%.

Of the total W&R materials collected by non-metropolitan councils:

- Kerbside collection in these regions was about 257,000 tonnes or 55%
- Drop-off collections contributed about 177,000 tonnes or 38%

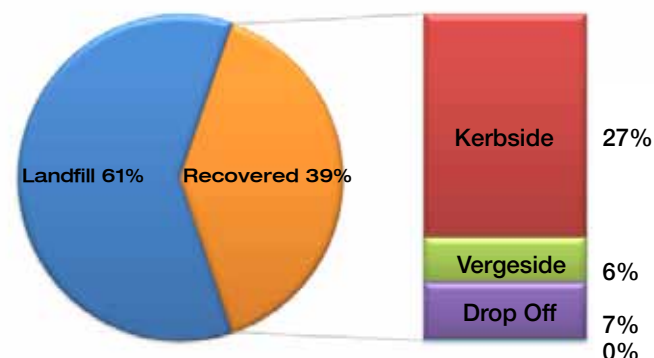


Figure 5-2 Proportion of waste handled by metropolitan local governments by destination, and the disaggregation of recovered materials by type of collection service

5.2 Destination of waste and recycling materials

The breakdown of the quantity of materials recovered and the quantity directed to landfill by the metropolitan and non-metropolitan local governments is shown in Figures 5-2 and 5-3, respectively. In these figures, the materials recovered are also disaggregated by type of collection service.

Metropolitan local governments recovered about 404,000 tonnes, or 39%, and disposed about 620,000 tonnes, or 61%, to landfill (see Figure 5.2). Most of the recovered material was from kerbside collection services (27%), and around 12% from the combined drop-off, vergeside and PP&SE collections.

Figure 5-3 shows that non-metropolitan local governments recovered 95,000 tonnes, or 20%, of all materials collected, and disposed about 376,000 tonnes to landfill, or 80%, of their total collection. Materials recovered by non-metropolitan local governments were largely from drop-off services (12%), with a smaller proportion from kerbside services (7%) and vergeside and PP&SE recovered materials (2%).

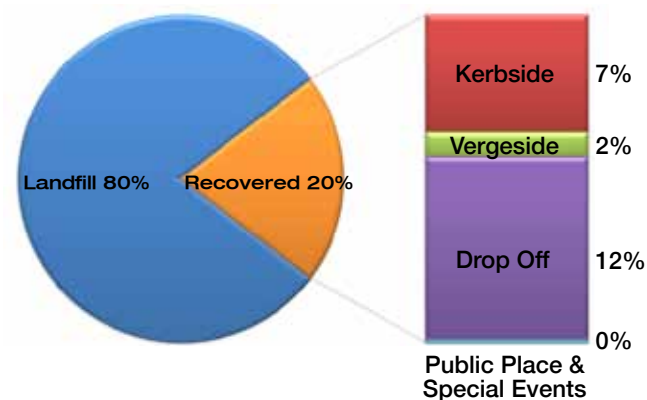


Figure 5-3 Proportion of waste handled by non-metropolitan local governments by destination, and the disaggregation of recovered materials by type of collection service

6 Kerbside services

Kerbside services are defined as containerised, regular, frequent collection of waste and/or recyclables from the front of residential premises.

6.1 Kerbside wastes for disposal to landfill

Across the state, 128 local governments (21 metropolitan and 107 non-metropolitan) reported providing a kerbside waste collection for disposal to landfill service. Of the 11 local governments that did not provide this service, nine were metropolitan local governments that directed all kerbside waste to an Alternative Waste Treatment (AWT) and two were non-metropolitan governments that largely depended on drop-off collection services.

The metropolitan local governments offered this service to almost 100% of their households, with a participation rate of 96%. The non-metropolitan local governments offered this service to about 83% of their households, with a participation rate of about 91%.

About 62% of the metropolitan and 80% of the non-metropolitan local governments providing kerbside waste collection outsourced this service, while the rest utilised in-house resources.

In 2012-13, around 554,000 tonnes of kerbside waste was collected in Western Australia for disposal to landfill. Table 6.1 provides quantities collected in the metropolitan and non-metropolitan areas from this service.

Table 6-1 Quantities collected from kerbside waste for disposal to landfill services in 2012-13

Geographic Region	Number LGAs with service	Tonnes Collected	Tonnes collected per household ⁴	Tonnes collected per person ⁵
Statewide	128	553,714	0.74	0.29
Metropolitan	21	338,439	0.66	0.26
Non-metropolitan	107	215,275	0.94	0.34

⁴ Calculated from total quantity collected and total number of households offered this service

⁵ Calculated from total quantity collected and total population of all local governments with this service

6.2 Kerbside wastes disposed to an Alternative Waste Treatment (AWT) facility

A total of 11 local governments, all located in the metropolitan region, provided kerbside waste collection for disposal to an AWT facility in 2012-13. All local governments offered this service to 100% of their households, with an average resident participation rate of 85%.

Six of the councils providing a waste to AWT service outsourced the provision of this service, while the rest utilised in-house resources.

Local governments reported that around 241,000 tonnes of materials were collected for treatment at an AWT in 2012-13. Around 57% of the material collected was recovered. Contaminants, inorganic materials, facility capacity limitations and facility shut downs all result in a proportion of waste collected from this service being disposed of to landfill. Table 6.2 details the quantities.

Table 6-2 Quantities collected and recovered from kerbside waste to AWT services in 2012-13

Geographic Region	Number LGAs with service	Tonnes Collected	Tonnes to landfill	Tonnes Recovered	Tonnes collected per household ⁶	Tonnes collected per person ⁷
Statewide	11	241,166	102,642	138,524	0.67	0.27
Metropolitan	11	241,166	102,642	138,524	0.67	0.27
Non-metropolitan	0	0	0	0	0.00	0.00

⁶ Calculated from total quantity collected and total number of households offered this service

⁷ Calculated from total quantity collected and total population of all local governments with this service

6.3 Kerbside recycling

Co-mingled & separated dry recyclables

A total of 91 local governments (29 metropolitan and 62 non-metropolitan) provided kerbside recycling collection services. Table 6-3 lists the number of local governments by frequency of kerbside recycling service, the type and size of container and the type of recyclable materials. It shows the majority (93%) of local governments that provided co-mingled dry recycling service collected these bins fortnightly.

Table 6-3 also shows that a few local governments provided separate kerbside recycling services solely for packaging containers, and paper and cardboard.

The metropolitan local governments that provided a co-mingled kerbside collection service offered it to almost 100% of their households, with an average participation rate of 91%. The non-metropolitan local governments offered this service to 72% of their households, with an average participation rate of 87%.

About 75% of the metropolitan and 98% of the non-metropolitan local governments that provided a co-mingled kerbside collection service outsourced it to a private contractor. The rest utilised in-house resources.

Statewide around 200,000 tonnes of recyclable materials were collected from kerbside services in 2012-13. Over 159,000 tonnes, or around 80%, of these materials were recovered. Table 6.4 details the quantities collected and recovered from this service in 2012-13.

Table 6-3 Number of local governments providing kerbside recycling services, by container type and size, and frequency of collection service

Service	Container Size	Frequency	Number of Local Governments ^a
Co-mingled Service	240MGB	Weekly	4
	240MGB	Fortnightly	82
	240MGB	Monthly	2
Containers only	120L	Weekly	2
	240L	Fortnightly	1
Paper and Cardboard	120MGB	Weekly	1
	Bag	Monthly	1
	Other (tied bundles)	Monthly	1

^a Some local governments offered more than 1 type of kerbside recycling service in 2012-13

Table 6-4 Quantities collected and recovered from kerbside recycling services in 2012-13

Geographic Region	Number LGAs with service	Tonnes Collected	Tonnes to landfill	Tonnes Recovered	Tonnes collected per household ⁹	Tonnes collected per person ¹⁰
Statewide	91	200,204	40,891	159,313	0.26	0.10
Metropolitan	29	159,563	31,165	128,398	0.25	0.10
Non-metropolitan	62	40,641	9,726	30,915	0.31	0.09

⁹ Calculated from total quantity collected and total number of households offered this service

¹⁰ Calculated from total quantity collected and total population of all local governments with this service

Green Waste

Five local governments (three metropolitan and two non-metropolitan) offered a kerbside green waste collection service in 2012-13.

The metropolitan local governments that provided this service offered it to 82% of their households, with a participation rate close to 100%. The two non-metropolitan local governments offered this service to 94% of their households. Only one of these councils provided a participation rate, which was 95%.

Statewide, around 11,000 tonnes of green waste was collected from kerbside services in 2012-13. Over 10,000 tonnes, or around 92%, of the green waste was recovered. Table 6-5 details the quantities collected and recovered from this service in 2012-13.

Table 6-5 Quantities collected and recovered from kerbside green waste services in 2012-13

Geographic Region	Number LGAs with service	Tonnes Collected	Tonnes to landfill	Tonnes Recovered	Tonnes collected per household ¹¹	Tonnes collected per person ¹²
Statewide	5	11,407	922	10,485	0.21	0.06
Metropolitan	3	9,685	881	8,804	0.24	0.08
Non-metropolitan	2	1722	41	1681	0.06	0.02

¹¹ Calculated from total quantity collected and total number of households offered this service

¹² Calculated from total quantity collected and total population of all local governments with this service

7 Vergeside services

Vergeside collection services are intermittent, non-containerised collection of bulky wastes, such as green wastes (e.g. grass or flower cuttings and hedge trimmings) and hard wastes (e.g. furniture, mattresses and white goods).

Across the State, 63 local governments provided vergeside green waste collection 77 provided hard waste collection and 60 offered both services.

Table 7-1 lists the number of local governments by frequency of vergeside green waste and hard waste collection. It shows the majority of councils collect vergeside green and hardwaste either annually or biannually with only a smaller proportion offering a different frequency of collection.

Table 7-1 Frequency of vergeside services in 2012-13

Green waste service				Hard waste service		
Frequency	Statewide	Metropolitan	Non-Metropolitan	Statewide	Metropolitan	Non-Metropolitan
Monthly	1		1	1		1
Quarterly	7	6	1	2	1	1
6-monthly	20	10	10	17	10	7
Annually	24	5	19	45	11	34
On-demand	3	2	1	3	1	2
Other	8	6	2	9	7	2
Grand total	63	29	34	77	30	47

7.1 Vergeside green waste

As shown in Table 7-1 (previous page), 29 metropolitan local governments provided a vergeside green waste collection to householders. Nineteen of them reported outsourcing this service. Metropolitan local governments presented this service to an average of about 98% of the total number of households in their area.

Thirty-four non-metropolitan local governments provided vergeside green waste collection, 11 of which outsourced this service. Non-metropolitan local governments offered this service to about 87% of the households in their area.

A total of around 61,000 tonnes of green waste material was reported collected from vergeside services in 2012-13. Around 58,000 tonnes, or 95%, of this material was recovered. Table 7-2 details the quantities collected and recovered from this service in 2012-13. These quantities are likely to be underestimates, with a few local governments (6%) offering this service unable to quantify the amount of green waste collected and recovered in 2012-13.

Table 7-2 Quantities collected and recovered from vergeside green waste services in 2012-13

	Number LGAs with service	Tonnes Collected	Tonnes to landfill	Tonnes Recovered	Tonnes collected per household ¹³	Tonnes collected per person ¹⁴
Statewide	63	61,154	3,195	57,959	0.08	0.03
Metropolitan	29	52,594	47	52,547	0.08	0.03
Non-metropolitan	34	8,560	3,148	5,412	0.07	0.03

¹³ Calculated from total quantity collected and total number of households offered this service

¹⁴ Calculated from total quantity collected and total population of all local governments with this service

7.2 Vergeside hard waste

All 30 metropolitan local governments provided vergeside hard waste collection. Of these, 21 local governments reported outsourcing this service. Metropolitan local governments presented this service to close to 100% of the total number of metropolitan households.

Forty-seven non-metropolitan local governments provided vergeside hard waste collection, 18 of which outsourced this service. Non-metropolitan local governments offered this service to about 86% of the households in their area.

A total of around 82,000 tonnes of hard waste was collected from vergeside services in 2012-13. Around 6,000 tonnes, or 7%, of this material was recovered. Table 7-3 details the quantities collected and recovered from this service in 2012-13. These quantities are likely to be underestimates, with 15% of local governments with this service unable to estimate quantities collected and recovered in 2012-13.

Table 7-3 Quantities collected and recovered from vergeside hard waste services in 2012-13

	Number LGAs with service	Tonnes Collected	Tonnes to landfill	Tonnes Recovered	Tonnes collected per household	Tonnes collected per person
Statewide	77	82,123	76,330	5,792	0.10	0.09
Metropolitan	30	70,223	66,247	3,976	0.10	0.10
Non-metropolitan	47	11,900	10,083	1,817	0.07	0.07

8 Drop-off services

Drop-off services are provided at central locations, usually at a waste depot, where residents can bring their waste for disposal or recycling using cars, utes or trailers. Householder drop-off services are sometimes called 'mums and dads' waste and recycling collection.

Non-metropolitan local governments that do not provide kerbside and/or vergeside services may provide drop-off recycling services at a local landfill or a transfer station. In some non-metropolitan local governments recycling services are provided by not-for-profit organisations such as the Lions Club. Both metropolitan and non-metropolitan householders with kerbside recycling services may also have access to drop-off facilities at landfills or transfer stations operated by local government or regional councils.

Table 8-1 shows the number of local governments that operated their own drop-off facilities and those that had access to drop-off facilities operated by private and/or not-for-profit groups. In addition to these facilities, five regional councils provided drop-off facilities for householders: Southern Metropolitan Regional Council, Eastern Metropolitan Regional Council, Mindarie Regional Council, Western Regional Council, and Bunbury-Harvey Regional Council.

Table 8-1 Number of local governments that provided drop-off W&R services in 2012-13

Type of service	Metro	Non-Metro	Total
Drop-off waste service			
In-house	9	99	108
Private and not-for-profit groups	5	10	15
Drop-off recycling service (combined container & hardwaste recyclable collection)			
In-house	15	77	92
Private and not-for-profit groups	3	25	28
Drop-off green waste service			
In-house	10	71	81
Private and not-for-profit groups	3	7	10

8.1 Drop-off mixed waste

A total of around 202,000 tonnes of mixed waste was dropped off by householders in 2012-13. Around 18,000 tonnes, or 9%, of this material was recovered. Table 8-2 details the quantities collected and recovered from this service in 2012-13. These quantities are likely to underestimate the actual quantities collected, with more than 25% of local governments with this service unable to estimate quantities collected and recovered from drop off services in 2012-13.

Regional council facilities received around 11% of all householder dropped-off mixed waste in 2012-13.

Table 8-2 Quantities collected and recovered from drop-off mixed waste services in 2012-13

	Collected	Landfill	Recovered	Recovered %
Statewide	201,541	183,320	18,220	9%
Metropolitan	83,058	68,154	14,905	18%
Non-metropolitan	118,482	115,167	3,316	3%

8.2 Drop-off recyclables and hardwaste

A total of around 45,000 tonnes of dry recyclables and hardwaste was dropped off by householders for recycling in 2012-13. Around 40,000 tonnes, or 88% of this material was recovered. Table 8-3 details the quantities collected and recovered from this service in 2012-13. These quantities are likely to underestimate the actual quantities collected, with up to 20% of local governments with a drop-off recycling service unable to estimate quantities collected and recovered from these drop-off services in 2012-13.

Regional council facilities received around 14% of all householder recyclables in 2012-13.

Table 8-3 Quantities collected and recovered from drop-off recyclables & hardwaste services in 2012-13

	Collected	Landfill	Recovered	Recovered %
Statewide	45,348	5,632	39,716	88%
Metropolitan	23,576	3,423	20,153	85%
Non-metropolitan	21,772	2,209	19,563	90%

8.3 Drop-off green waste

A total of around 71,000 tonnes of green waste was dropped off by householders for recycling in 2012-13. Around 66,000 tonnes, or 93% of this material was recovered. Table 8-4 details the quantities collected and recovered from this service in 2012-13. As with other drop-off services, a significant number of local governments (27%) were not able to measure the quantity of materials collected or recovered from this service and the reported quantities are likely to be underestimates.

Regional council facilities received around 25% of all domestic dropped-off green waste in 2012-13.

Table 8-4 Quantities collected and recovered from drop-off green waste services in 2012-13

	Collected	Landfill	Recovered	Recovered %
Statewide	71,025	5,035	65,989	93%
Metropolitan	34,225	0	34,225	100%
Non-metropolitan	36,800	5,035	31,764	86%

9 Public place and Special Events (PP&SE) Services

Local governments collect waste and recycling in public places using street litter bins and permanent bins in parks. For special events such as festivals and similar gatherings, temporary bins are put in place. This also includes extra bins (in addition to permanent ones) for sports events.

The majority (88%) of local governments reported providing PP&SE waste collection services. A smaller proportion (32%) reported providing PP&SE recycling collection services.

A total of around 28,000 tonnes of waste was collected from these services in 2012-13, with recovery of around 3000 tonnes (12%) of materials.

Most local governments were unable to provide a direct measure of the quantity of W&R materials collected from public place bins, because they were typically collected with householder kerbside waste. However, the majority (84%) were able to estimate tonnes collected based on the number of bin lifts and an estimation of average bin weight or as a proportion of the domestic bin collection run. Similarly, quantities of W&R materials collected from temporary bins placed at special events were not typically measured by local government. The reported quantity was likely to be a 'best guess' by the local government officer completing the census.

10 Recycled materials

10.1 Recycled materials statewide

Councils were asked to provide tonnages of recycled materials for each type of collection service¹⁵ and by material type. Figure 10-1 shows the quantities of materials recycled statewide as reported by councils. A total of around 326,000 tonnes of W&R materials were reported in this section of the census. This is about 65% of all recovered materials (499,000 tonnes) reported to the census.

The majority (72%) of recycled materials were collected through services provided by metropolitan councils. Green waste constitutes the largest portion (42%) of recycled material, followed by paper and cardboard (30%).

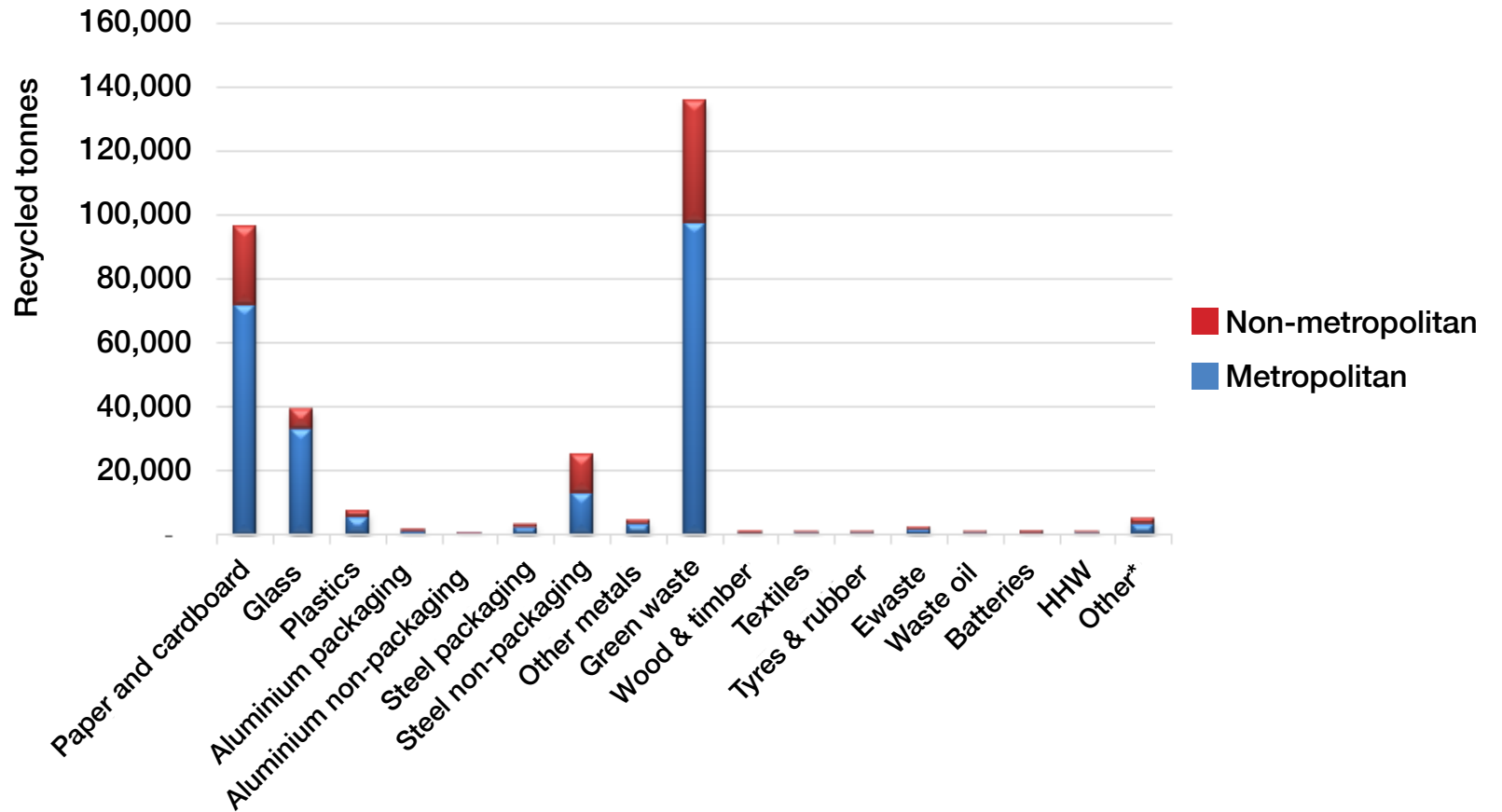


Figure 10-1 Quantity of recycled materials collected by metropolitan and non-metropolitan local governments

¹⁵ Not all local governments were able to provide a service breakdown and reported only total recycled materials, as a result, the sum of total recycled by material type and the sum of tonnes by service type are not equal.

10.2 Recycled materials as reported by metropolitan local governments

Figure 10-2 shows the disaggregation of recycled materials by type of collection service provided by metropolitan councils. The figure shows that paper and cardboard (72,000 tonnes) and green waste (98,000 tonnes) contributed the largest quantities of recycled materials collected by metropolitan councils. It also shows that the majority (56%) of all recyclable materials were collected from kerbside services, although only 19% of all recycled green waste was collected from kerbside services in the metropolitan area.

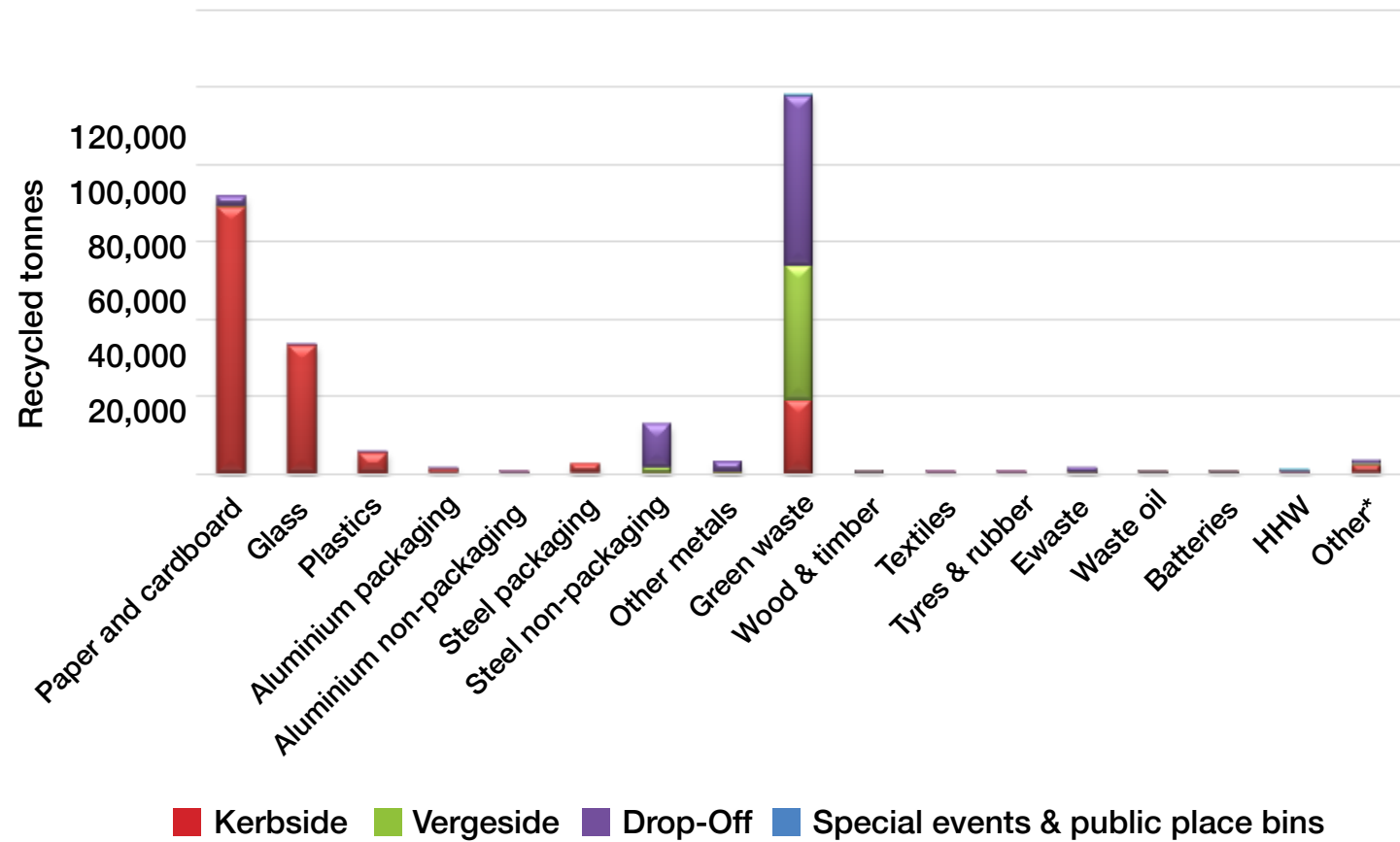


Figure 10-2 Quantity of recycled materials reported by metropolitan local governments, by type of collection service

10.3 Recycled materials as reported by non-metropolitan local governments

Figure 10-3 shows the disaggregation of recycled materials by type of collection service provided by non-metropolitan councils. The figure shows that paper and cardboard (24,000 tonnes) and green waste (38,000 tonnes) contributed the largest quantities of recycled materials collected by non-metropolitan councils. It also shows that in non-metropolitan local governments, the majority (56%) of recyclable materials were collected from householder drop-off services.

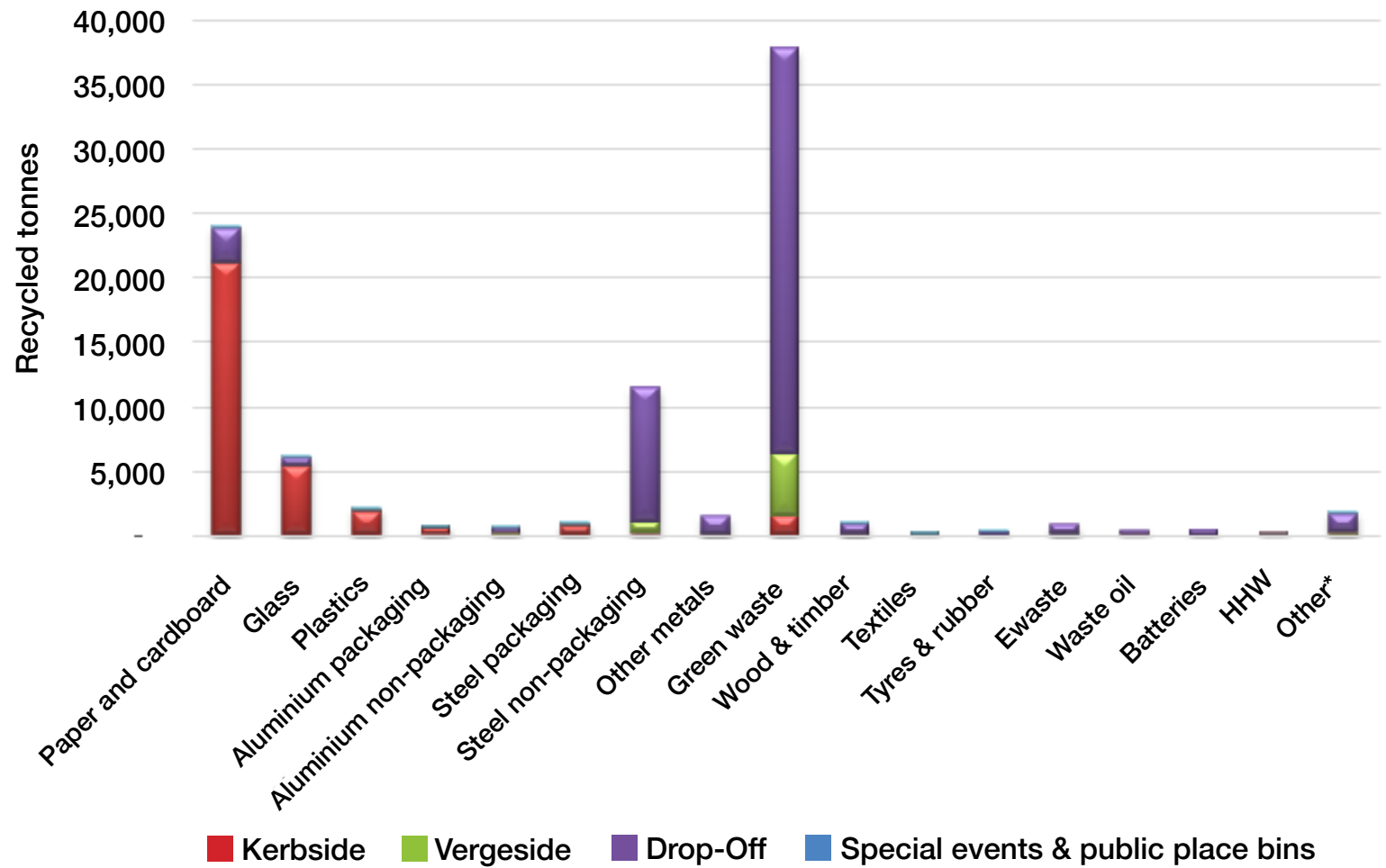


Figure 10-3 Quantity of recycled materials reported by non-metropolitan local governments, by type of collection service

Local governments were asked to provide the costs of providing W&R services to their residents disaggregated by service type. While the majority of local governments provided disaggregated costs, many provided lump sum costs for all their W&R services. Statewide, local governments reported spending \$225 million providing waste and recycling service to householders. Reported annual costs to local government per household ¹⁶ were highly variable ranging - from around \$50 to well over \$1000. This reflects the range of W&R services provided by individual local governments across the state.

Local governments were also asked how much householders were charged for the provision of W&R services. There were quite a number of local governments that were not able to separate the charges for W&R services from the councils' annual rates for residential premises. Statewide, local government reported charging householders a total of around \$273 million for providing W&R services to householders in 2012-13. Again, the charge per household was variable-ranging from \$50 to \$601.

Figure 8-1 shows the median per premise cost and median per premise charge for all W&R services provided by local governments grouped according to population as shown in Table 8-1

¹⁶ Not provided directly, calculated from total costs divided by number of households in local government area

Table 11-1 Distribution of local government by population

Group	Population	Metropolitan	Non-Metropolitan	Statewide
A	Greater than 50,000	12	1	13
B	10,000-50,000	13	16	29
C	5,000-9,999	4	12	16
D	Less than 5000	1	81	82

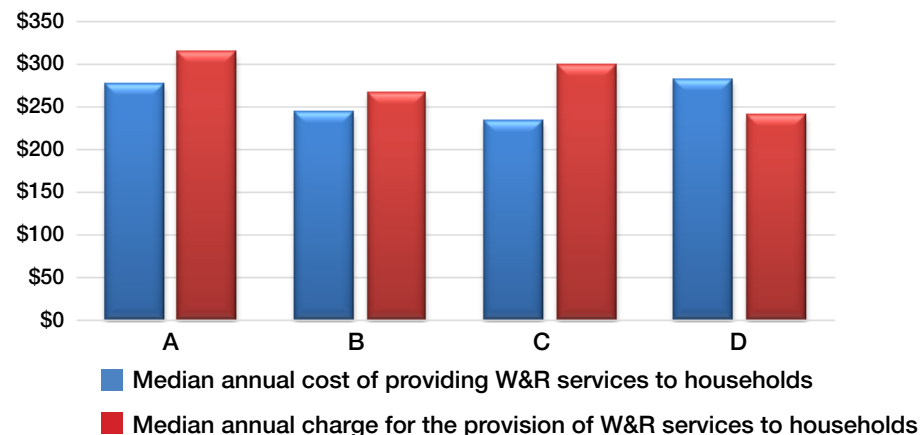


Figure 11-1 Reported median annual costs and charges for the provision of W&R services to householders

12 Waste composition audits

Fifteen local governments statewide conducted waste composition audits in 2012-13. Ten of these were in the metropolitan area and five outside the metropolitan area.

13 Local government initiatives

The census gathered information on local government W&R initiatives during 2012-13:

- Twenty-four local governments and regional councils reported new W&R infrastructure in 2012-13. This infrastructure included major new facilities constructed by the regional councils such as a new Material Recovery Facility (MRF) for the Southern Metropolitan Regional Council, an Alternative Waste Treatment (AWT) facility for the Western Metropolitan Regional Council and composting facility for the Bunbury-Harvey Regional Council. It also included the construction of a number of transfer stations, landfill facility upgrades and the purchase of compaction units.
- Forty-three local governments reported recycling their own construction and demolition waste and 75 reported recycling green waste from their own operations.
- Forty-five local governments and regional councils reported having a Sustainable Purchasing Policy or Green Purchasing Policy.
- Seventy-two local governments and regional councils reported spending a total of around \$2.9 million dollars in W&R education programs in 2012-13. Over 40% of this was expended by the metropolitan regional councils.

14 Littering and illegal dumping

Statewide, local governments reported issuing 1,154 infringement notices for littering and illegal dumping 2012-13. The majority of the littering infringements were issued in the metropolitan area (75%) and the majority (67%) of illegal dumping notices issued outside the metropolitan area. In addition, one metropolitan and one non-metropolitan local government authority reported commencing court proceedings for illegal dumping in 2012-13. Local governments reported a total cost of around \$5.6 million for cleaning up illegally dumped material across the state in 2012-13.

The majority of local governments had programs in place to prevent illegal dumping (122 LGAs) and / or littering (64 LGAs). These programs commonly included:

- Education through media releases, newsletters and school programs
- Providing better public access to appropriate waste disposal sites / bins
- Signs
- Participation in the Tidy Towns program, town beautification strategies and Clean Up Australia Day support
- Monitoring of known illegal dumping sites
- 'Dob in a dumper' campaigns.

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Appendix

Appendix A: Domestic W&R services			Kerbside Service				Vergeside		Drop Off Facilities			
LGA	Region	Households	Landfill	AWT	Co-mingled Recyclables	Green waste	Green waste	Hard waste	Mixed Waste	Dry Recyclables	Green waste	Hard waste
City of Albany	Non-metro	15,800	Yes	No	Yes	Yes	Yes	Yes	Yes	No	No	No
City of Armadale	Metro	25,800	Yes	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
City of Bayswater	Metro	26,300	Yes	No	Yes	Yes	No	Yes	Yes	No	No	No
City of Belmont	Metro	15,200	Yes	No	Yes	No	Yes	Yes	No	No	No	Yes
City of Bunbury	Non-metro	14,600	Yes	No	Yes	Yes	Yes	Yes	No	No	No	No
City of Busselton	Non-metro	14,500	Yes	No	Yes	No	No	No	Yes	Yes	Yes	Yes
City of Canning	Metro	37,400	Yes	No	Yes	No	Yes	Yes	Yes	No	Yes	Yes
City of Cockburn	Metro	37,500	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
City of Fremantle	Metro	13,700	No	Yes	Yes	No	Yes	Yes	No	Yes	Yes	Yes
City of Gosnells	Metro	44,100	Yes	No	Yes	No	Yes	Yes	No	No	No	Yes
City of Greater Geraldton	Non-metro	17,000	Yes	No	No	No	Yes	Yes	Yes	No	Yes	Yes
City of Joondalup	Metro	64,900	Yes	yes	Yes	No	Yes	Yes	No	No	No	No
City of Kalgoorlie-Boulder	Non-metro	12,100	Yes	No	Yes	No	No	Yes	Yes	No	No	No
City of Mandurah	Non-metro	36,500	Yes	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
City of Melville	Metro	42,900	No	Yes	Yes	No	Yes	Yes	No	No	No	No
City of Nedlands	Metro	9,400	Yes	No	Yes	Yes	Yes	Yes	No	Yes	No	No

Appendix A: Domestic W&R services *continued*

			Kerbside Service				Vergeside		Drop Off Facilities			
LGA	Region	Households	Landfill	AWT	Co-mingled Recyclables	Green waste	Green waste	Hard waste	Mixed Waste	Dry Recyclables	Green waste	Hard waste
City of Perth	Metro	11,700	Yes	No	Yes	No	Yes	Yes	No	No	No	No
City of Rockingham	Metro	45,200	Yes	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
City of South Perth	Metro	20,600	Yes	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
City of Stirling	Metro	86,700	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes
City of Subiaco	Metro	9,000	Yes	No	No	No	Yes	Yes	No	Yes	No	No
City of Swan	Metro	47,400	Yes	No	Yes	No	Yes	Yes	No	Yes	Yes	Yes
City of Vincent	Metro	14,700	No	Yes	Yes	No	Yes	Yes	No	No	No	No
City of Wanneroo	Metro	66,000	No	Yes	Yes	No	Yes	Yes	No	No	Yes	No
Shire of Ashburton	Non-metro	2,300	Yes	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes
Shire of Augusta, Margaret River	Non-metro	5,500	Yes	No	Yes	No	No	No	Yes	Yes	Yes	Yes
Shire of Beverley	Non-metro	790	Yes	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
Shire of Boddington	Non-metro	650	Yes	No	Yes	No	No	No	Yes	Yes	Yes	Yes
Shire of Boyup Brook	Non-metro	730	Yes	No	No	No	No	No	Yes	Yes	Yes	Yes
Shire of Bridgetown	Non-metro	2,100	Yes	No	Yes	No	No	Yes	Yes	No	Yes	Yes
Shire of Brookton	Non-metro	410	Yes	No	Yes	No	No	No	Yes	No	No	No
Shire of Broome	Non-metro	6,800	Yes	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes
Shire of Broomehill/ Tambellup	Non-metro	490	Yes	No	Yes	No	No	No	Yes	Yes	No	No

Appendix A: Domestic W&R services *continued*

			Kerbside Service				Vergeside		Drop Off Facilities			
LGA	Region	Households	Landfill	AWT	Co-mingled Recyclables	Green waste	Green waste	Hard waste	Mixed Waste	Dry Recyclables	Green waste	Hard waste
Shire of Bruce Rock	Non-metro	400	Yes	No	Yes	No	No	Yes	No	Yes	Yes	No
Shire of Capel	Non-metro	5,800	Yes	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
Shire of Carnamah	Non-metro	320	Yes	No	No	No	No	No	No	No	No	No
Shire of Carnarvon	Non-metro	2,300	Yes	No	No	No	No	Yes	No	No	No	No
Shire of Chapman Valley	Non-metro	460	Yes	No	No	No	No	Yes	Yes	No	No	No
Shire of Chittering	Non-metro	2,000	No	No	No	No	No	No	Yes	Yes	Yes	No
Shire of Christmas Island	Non-metro	622	Yes	No	No	No	Yes	Yes	Yes	No	No	No
Shire of Cocos (Keeling) Islands	Non-metro	172	Yes	No	No	No	Yes	No	No	Yes	Yes	Yes
Shire of Collie	Non-metro	3,700	Yes	No	Yes	No	No	No	Yes	No	Yes	No
Shire of Coolgardie	Non-metro	1,600	Yes	No	No	No	No	Yes	Yes	Yes	Yes	Yes
Shire of Coorow	Non-metro	430	Yes	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes
Shire of Corrigin	Non-metro	570	Yes	No	Yes	No	No	No	Yes	Yes	Yes	Yes
Shire of Cranbrook	Non-metro	520	Yes	No	No	No	No	No	Yes	No	No	No
Shire of Cuballing	Non-metro	330	No	No	No	No	No	No	Yes	Yes	Yes	Yes
Shire of Cue	Non-metro	100	Yes	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes
Shire of Cunderin	Non-metro	460	Yes	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes
Shire of Dalwallinu	Non-metro	480	yes	No	Yes	No	No	Yes	Yes	Yes	No	No
Shire of Dandaraga	Non-metro	1,500	Yes	No	Yes	No	No	No	Yes	Yes	Yes	Yes

Appendix A: Domestic W&R services *continued*

			Kerbside Service				Vergeside		Drop Off Facilities			
LGA	Region	Households	Landfill	AWT	Co-mingled Recyclables	Green waste	Green waste	Hard waste	Mixed Waste	Dry Recyclables	Green waste	Hard waste
Shire of Dardanup	Non-metro	5,600	Yes	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
Shire of Denmark	Non-metro	2,600	Yes	No	Yes	No	No	No	Yes	Yes	Yes	No
Shire of Derby / West Kimberley	Non-metro	2,500	Yes	No	No	No	yes	Yes	Yes	No	Yes	No
Shire of Donnybrook-Balingup	Non-metro	2,200	Yes	No	Yes	No	No	No	Yes	Yes	Yes	Yes
Shire of Dowerin	Non-metro	280	Yes	No	Yes	No	No	No	Yes	Yes	Yes	Yes
Shire of Dumbleyung	Non-metro	260	Yes	No	Yes	No	No	No	Yes	Yes	Yes	Yes
Shire of Dundas	Non-metro	490	Yes	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes
Shire of East Pilbara	Non-metro	4,000	Yes	No	Yes	No	No	Yes	Yes	No	Yes	No
Shire of Esperance	Non-metro	6,100	Yes	No	Yes	No	No	No	Yes	Yes	Yes	Yes
Shire of Exmouth	Non-metro	990	Yes	No	No	No	Yes	Yes	Yes	Yes	No	Yes
Shire of Gingin	Non-metro	2,100	Yes	No	No	No	No	No	Yes	Yes	Yes	Yes
Shire of Gnowangerup	Non-metro	550	Yes	No	Yes	No	Yes	No	Yes	No	Yes	Yes
Shire of Goomalling	Non-metro	460	Yes	No	No	No	No	No	Yes	No	No	No
Shire of Halls Creek	Non-metro	1,100	Yes	No	No	No	Yes	Yes	Yes	No	Yes	Yes
Shire of Harvey	Non-metro	9,700	Yes	No	Yes	No	No	No	Yes	No	Yes	Yes
Shire of Irwin	Non-metro	1,600	Yes	No	No	No	No	No	Yes	Yes	Yes	Yes
Shire of Jerramungup	Non-metro	430	Yes	No	Yes	No	No	No	Yes	Yes	Yes	Yes

Appendix A: Domestic W&R services *continued*

			Kerbside Service				Vergeside		Drop Off Facilities			
LGA	Region	Households	Landfill	AWT	Co-mingled Recyclables	Green waste	Green waste	Hard	Mixed Waste	Dry Recyclables	Green waste	Hard waste
Shire of Kalamunda	Metro	22,200	Yes	No	Yes	No	Yes	Yes	Yes	Yes	Yes	No
Shire of Katanning	Non-metro	1,900	yes	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
Shire of Kellerberin	Non-metro	580	Yes	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes
Shire of Kent	Non-metro	210	Yes	No	Yes	No	No	No	Yes	Yes	Yes	Yes
Shire of Kojonup	Non-metro	960	Yes	No	Yes	No	No	Yes	Yes	1	No	No
Shire of Kondinin	Non-metro	430	Yes	No	Yes	No	No	No	Yes	Yes	Yes	Yes
Shire of Koorda	Non-metro	200	Yes	No	No	No	Yes	Yes	Yes	No	No	No
Shire of Kulin	Non-metro	340	Yes	No	Yes	No	No	No	Yes	Yes	Yes	Yes
Shire of Lake Grace	Non-metro	580	Yes	No	Yes	No	No	No	Yes	No	No	No
Shire of Laverton	Non-metro	350	Yes	No	No	No	Yes	Yes	Yes	No	No	No
Shire of Leonora	Non-metro	670	Yes	No	No	No	No	Yes	Yes	No	No	No
Shire of Manjimup	Non-metro	4,000	Yes	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes
Shire of Meekatharra	Non-metro	410	Yes	No	No	No	No	No	No	1	No	No
Shire of Menzies	Non-metro	80	Yes	No	No	No	No	No	Yes	No	No	No
Shire of Merredin	Non-metro	1,400	Yes	No	Yes	No	No	No	Yes	Yes	Yes	Yes
Shire of Mingenew	Non-metro	170	Yes	No	No	No	No	No	Yes	No	No	No
Shire of Moora	Non-metro	1,100	Yes	No	Yes	No	No	No	Yes	Yes	34	Yes
Shire of Morawa	Non-metro	410	Yes	No	No	No	No	No	Yes	Yes	Yes	Yes
Shire of Magnet	Non-metro	230	Yes	No	No	No	No	No	Yes	No	No	1

Appendix A: Domestic W&R services *continued*

			Kerbside Service				Vergeside		Drop Off Facilities			
LGA	Region	Households	Landfill	AWT	Co-mingled Recyclables	Green waste	Green waste	Hard waste	Mixed Waste	Dry Recyclables	Green waste	Hard waste
Shire of Mt Marshall	Non-metro	270	Yes	No	Yes	No	No	No	Yes	No	No	No
Shire of Mukinbudin	Non-metro	200	Yes	No	Yes	No	Yes	Yes	Yes	No	No	No
Shire of Mundaring	Metro	15,800	Yes	No	Yes	No	Yes	Yes	Yes	No	No	No
Shire of Murchison	Non-metro	55	Yes	No	No	No	No	No	Yes	No	No	No
Shire of Murray	Non-metro	7,600	Yes	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
Shire of Nannup	Non-metro	590	Yes	No	Yes	No	No	No	Yes	Yes	Yes	Yes
Shire of Narembeen	Non-metro	350	Yes	No	Yes	No	No	No	Yes	Yes	Yes	Yes
Shire of Narrogin	Non-metro	480	Yes	No	Yes	No	No	No	No	No	No	No
Shire of Northam	Non-metro	4,900	Yes	No	No	No	No	Yes	Yes	Yes	Yes	Yes
Shire of Northampton	Non-metro	1,600	Yes	No	No	No	yes	Yes	Yes	Yes	Yes	Yes
Shire of Nungarin	Non-metro	85	Yes	No	Yes	No	No	No	Yes	Yes	Yes	Yes
Shire of Peppermint Grove	Metro	720	Yes	No	Yes	No	Yes	Yes	No	No	No	No
Shire of Perenjori	Non-metro	190	Yes	No	No	No	Yes	Yes	Yes	No	No	No
Shire of Pingelly	Non-metro	530	Yes	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes
Shire of Plantagenet	Non-metro	2,100	Yes	No	Yes	No	No	No	Yes	Yes	Yes	Yes
Shire of Quairading	Non-metro	450	Yes	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
Shire of Ravensthorpe	Non-metro	1,200	Yes	No	No	No	No	No	Yes	No	Yes	Yes
Shire of Roebourne	Non-metro	7,500	Yes	No	No	No	Yes	No	Yes	No	No	Yes

Appendix A: Domestic W&R services *continued*

			Kerbside Service				Vergeside		Drop Off Facilities			
LGA	Region	Households	Landfill	AWT	Co-mingled Recyclables	Green waste	Green waste	Hard waste	Mixed Waste	Dry Recyclables	Green waste	Hard waste
Shire of Sandstone	Non-metro	55	Yes	No	No	No	No	No	Yes	No	No	Yes
Shire of Serpentine Jarrahdale	Metro	8,000	Yes	No	Yes	No	Yes	Yes	No	No	No	Yes
Shire of Sharkbay	Non-metro	450	Yes	No	No	No	Yes	Yes	Yes	No	Yes	Yes
Shire of Tammin	Non-metro	150	Yes	No	No	No	No	No	Yes	Yes	Yes	Yes
Shire of Three Springs	Non-metro	280	Yes	No	No	No	Yes	Yes	Yes	No	Yes	No
Shire of Toodyay	Non-metro	2,100	Yes	No	No	No	No	No	Yes	No	No	No
Shire of Trayning	Non-metro	160	Yes	No	Yes	No	No	No	Yes	No	No	No
Shire of Upper Gascoyne	Non-metro	120	Yes	No	No	No	No	No	Yes	No	No	No
Shire of Victoria Plains	Non-metro	380	Yes	No	Yes	No	No	No	Yes	No	No	Yes
Shire of Wagin	Non-metro	810	Yes	No	Yes	No	No	No	Yes	Yes	Yes	Yes
Shire of Wandering	Non-metro	170	Yes	No	Yes	No	No	No	No	No	No	No
Shire of Waroona	Non-metro	1,600	Yes	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes
Shire of West Arthur	Non-metro	330	Yes	No	Yes	No	No	No	Yes	Yes	Yes	Yes
Shire of Westonia	Non-metro	75	Yes	No	No	No	No	No	Yes	Yes	Yes	No
Shire of Wickepin	Non-metro	310	Yes	No	Yes	No	No	No	Yes	Yes	Yes	Yes
Shire of Williams	Non-metro	380	Yes	No	Yes	No	No	No	Yes	Yes	Yes	Yes
Shire of Wiluna	Non-metro	370	Yes	No	No	No	No	No	Yes	No	No	No

Appendix A: Domestic W&R services *continued*

			Kerbside Service				Vergeside		Drop Off Facilities			
LGA	Region	Households	Landfill	AWT	Co-mingled Recyclables	Green waste	Green waste	Hard waste	Mixed Waste	Dry Recyclables	Green waste	Hard waste
Shire of Wongan-Ballidu	Non-metro	560	Yes	No	Yes	No	Yes	Yes	No	No	No	No
Shire of Woodanilling	Non-metro	170	Yes	No	Yes	No	No	No	Yes	Yes	Yes	Yes
Shire of Wyalkatchem	Non-metro	210	Yes	No	No	No	Yes	Yes	Yes	Yes	No	No
Shire of Wyndham, East Kimberly	Non-metro	2,900	Yes	No	No	No	Yes	Yes	Yes	No	Yes	Yes
Shire of Yalgoo	Non-metro	120	Yes	No	No	No	No	No	Yes	No	No	No
Shire of Yilgarn	Non-metro	530	Yes	No	Yes	No	No	No	Yes	Yes	Yes	No
Shire of York	Non-metro	1,700	Yes	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
Town of Bassendean	Metro	6,300	Yes	No	Yes	No	Yes	Yes	No	No	No	No
Town of Cambridge	Metro	11,400	No	Yes	Yes	Yes	Yes	Yes	No	No	No	Yes
Town of Claremont	Metro	4,800	No	Yes	Yes	No	Yes	Yes	No	No	No	No
Town of Cottesloe	Metro	3,500	Yes	No	Yes	No	Yes	Yes	No	No	No	No
Town of East Fremantle	Metro	3,200	No	Yes	Yes	No	Yes	Yes	No	No	No	No
Town of Kwinana	Metro	13,500	Yes	No	Yes	No	Yes	Yes	No	No	No	No
Town of Mosman Park	Metro	4,500	Yes	No	Yes	No	Yes	Yes	No	No	No	No
Town of Narrogin	Non-metro	2,300	Yes	No	No	No	No	No	Yes	Yes	Yes	Yes
Town of Victoria Park	Metro	16,300	No	Yes	Yes	No	Yes	Yes	No	No	No	No
Town of Port Hedland	Non-metro	5,400	Yes	No	No	No	No	Yes	No	No	Yes	Yes

