



# STATISTICAL NEWS

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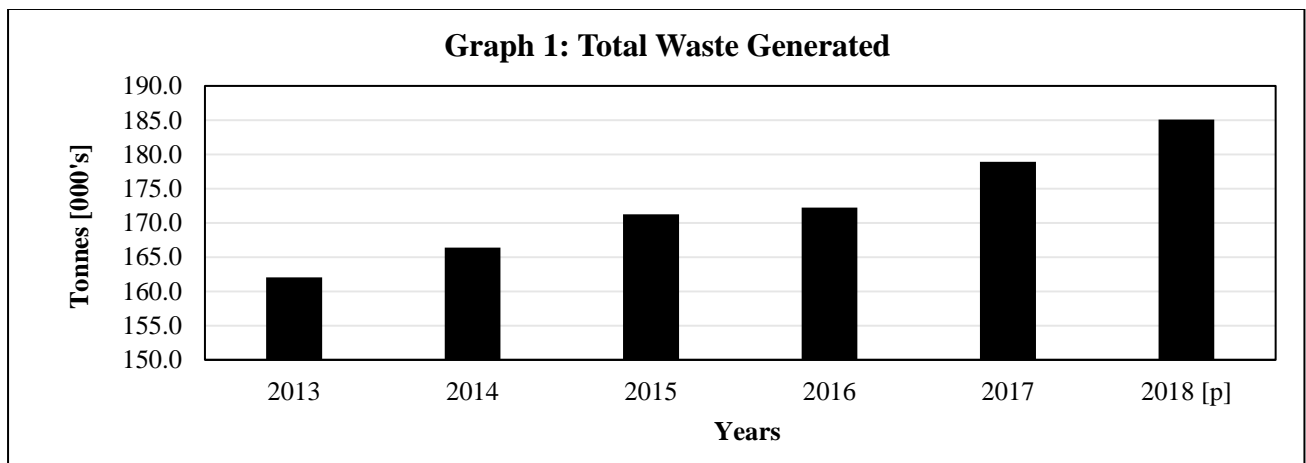
30<sup>th</sup> September, 2019

## Fiji's Experimental Environmental Account for Solid Waste 2018

The environmental account for waste is a framework that describes in detail the production, reuse, disposal and the various types of residuals generated by the different units in the economy. This release captures the physical flows of residuals from the economy to the environment and within the economy.

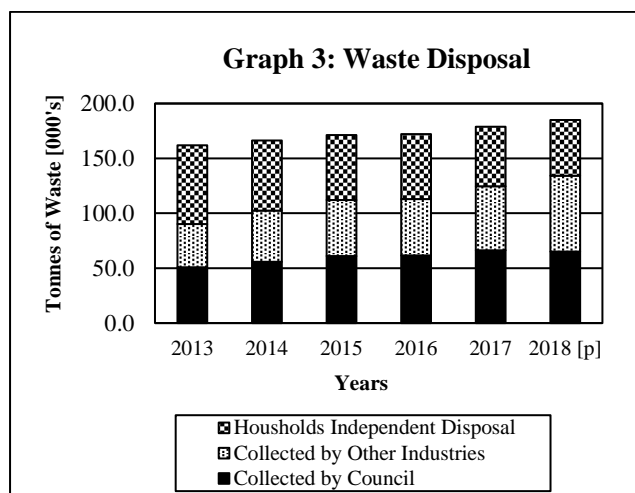
The account contains information on Waste gathered by the Department of Environment via the local town and city councils (Naboro and Vunato dumpsites); and estimates on Waste generated by households, that is disposed of independently i.e. not collected by the council or private companies.

### Waste Generated



An overall increasing trend in waste generation is observed over the years. The graph above clearly depicts the increasing waste concern for the nation. On average for the last six years, since 2013, total waste generated consists of general (87.4%), green (6.0%) and special waste (6.6%). The proportion has remained relatively constant over the years for the three categories.

## Waste Management



**Table 1: Percentage of Waste Collected**

Year	% of Total Waste Collected by Town and City Council	% of Total Waste Collected by Other industries	% of Total Waste by Independent disposal
2013	31.3	24.3	44.4
2014	33.6	27.9	38.5
2015	35.7	29.8	34.5
2016	35.9	29.7	34.4
2017 [r]	37.1	32.6	30.3
2018 [p]	35.2	37.3	27.5

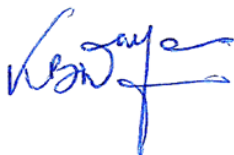
On average, since 2013, 34.8% and 30.3% of waste generated is collected by the town/city councils and private companies respectively while 34.9% is disposed of independently by households. The total waste generated in 2018, 72.2% of the waste ends up in the landfill, 0.3% is recycled, and 27.5% independently disposed of by households.

**Please find attached the following Appendices for your reference:**

- **Appendix 1** – Fiji’s Solid Waste Account; and
- **Appendix 2** – Technical Notes.

The following contact persons are available to attend to any further enquiries:

1. Mr. Bimlesh Krishna – Chief Statistician [Economic Statistics Division] on email bkrishna@statsfiji.gov.fj or telephone 331 5822 (ext: 386 233).
2. Ms. Litia Kurisaqila – Assistant Statistician [Sector Satellite Accounts] on email lkurisaqila@statsfiji.gov.fj or telephone 331 5822 (ext: 386 237).



Kemueli Naiqama [Mr]  
**Deputy Government Statistician**

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Appendix 1

Fiji's Solid Waste Account – Waste Collectors  
[Tonnes]

Year	Town/City Councils				Other Industries				Total Collected by Councils and other Industries				Uncollected Waste	Total Waste Generated			
	General Waste	Green waste	Special waste	Total	General Waste	Green waste	Special waste	Total	General Waste	Green waste	Special waste	Total		General Waste	Green waste	Special waste	Total
2006	27,127	7,758	75	34,960	21,313	72	3,854	25,238	48,440	7,829	3,928	60,198	90,429	138,869	7,829	3,928	150,626
2007	27,293	7,431	56	34,780	21,443	69	2,901	24,412	48,735	7,500	2,957	59,192	94,403	143,138	7,500	2,957	153,595
2008	24,735	3,659	62	28,456	19,433	34	3,214	22,681	44,168	3,693	3,276	51,137	112,123	156,291	3,693	3,276	163,260
2009	25,377	5,493	70	30,940	19,937	51	3,612	23,600	45,314	5,544	3,682	54,540	107,823	153,137	5,544	3,682	162,363
2010	26,972	6,830	67	33,868	21,191	63	3,443	24,697	48,163	6,893	3,510	58,566	102,947	151,109	6,893	3,510	161,512
2011	28,319	7,100	75	35,494	22,249	66	3,872	26,186	50,568	7,165	3,947	61,680	100,178	150,745	7,165	3,947	161,857
2012	29,013	6,298	55	35,366	22,794	58	2,829	25,681	51,807	6,357	2,883	61,047	103,693	155,500	6,357	2,883	164,740
2013	41,695	8,948	126	50,769	32,758	83	6,500	39,340	74,453	9,030	6,626	90,109	71,942	146,396	9,030	6,626	162,052
2014	45,590	10,094	205	55,889	35,818	93	10,557	46,468	81,408	10,188	10,761	102,357	64,016	145,261	10,188	10,761	166,373
2015	50,129	10,755	225	61,109	39,384	99	11,617	51,101	89,513	10,854	11,843	111,814	59,018	148,472	10,854	11,843	171,228
2016	50,532	11,029	222	61,783	37,701	102	11,445	51,247	90,233	11,131	11,666	113,030	59,210	149,442	11,131	11,666	172,240
2017[r]	56,773	9,292	264	66,329	44,603	86	13,633	58,322	101,376	9,378	13,897	124,651	54,253	155,628	9,378	13,897	178,904
2018[p]	55,008	10,181	15	65,204	53,121	1,578	14,229	68,928	108,129	11,759	1,593	121,481	50,942	159,071	11,759	14,244	185,074

**Fiji's Solid Waste Account – Waste Management**  
[Tonnes]

Year	Landfill				Recycle				Uncollected Waste
	General Waste	Green waste	Special waste	Total	General Waste	Green waste	Special waste	Total	General Waste
2006	48,440	7,829	3,928	60,198	n/a	-	-	-	90,429
2007	48,735	7,500	2,957	59,192	n/a	-	-	-	94,403
2008	44,168	3,693	3,276	51,137	n/a	-	-	-	112,123
2009	45,314	5,544	3,682	54,540	n/a	-	-	-	107,823
2010	48,163	6,893	3,510	58,566	n/a	-	-	-	102,947
2011	50,568	7,165	3,947	61,680	n/a	-	-	-	100,178
2012	51,807	6,357	2,883	61,047	n/a	-	-	-	103,693
2013	74,202	9,030	6,626	89,858	251	0	0	382	71,942
2014	81,087	10,188	10,765	102,036	321	0	0	433	64,016
2015	89,117	10,854	11,843	111,814	396	0	0	475	59,018
2016	89,850	11,131	11,666	112,647	383	0	0	517	54,758
2017 [r]	100,946	9,378	13,897	124,221	430	0	0	430	54,253
2018 [p]	107,670	11,759	14,244	133,673	459	0	0	459	50,942

## Appendix 2: Technical Notes

### Definition (SEEA 2012 – UNSD)

**SEEA 2012 Central Framework** – is a multipurpose conceptual framework for understanding the interactions between the economy and the environment, and for describing stocks and changes in stocks of environmental assets.

**Solid Waste** - Discarded products arising from all human activities and those arising from the plants and animals that are normally solid or semi-solid at room temperature are termed as solid wastes. Municipal solid waste (MSW) is a term used to represent all the garbage created by households, commercial sites (restaurants, grocery and other stores, offices and public places etc.) and institutions (educational establishments, museums etc.). Industrial solid wastes (ISW) are those wastes arising from the human developmental (industrial) activities. (*Environment Management Act 2005 (Act No 1. of 2005). (Legal Notice No. 1)*)

**General Waste** - also called residual waste, is material from businesses and households that cannot be recycled. It includes materials such as non-recyclable plastics, polythene, some packaging and kitchen scraps, etc. (SUEZ Environment, 2016)

**Green Waste** - biodegradable waste that can be composed of garden or park waste, such as grass or flower cuttings and hedge trimmings, as well as domestic and commercial food waste. The differentiation green identifies it as high in nitrogen, as opposed to brown waste, which is primarily carbonaceous. (Green Waste Wikipedia, n.d.)

**Special Waste** – means white goods discarded as waste including waste from chemical metal processing and pharmaceutical or agrochemical wastes. (*Environment Management Act 2005 (Act No 1. of 2005). (Legal Notice No. 1)*)

**Independent disposal** – Waste disposed of by households i.e. burnt or buried in the backyards, composted or disposed of in creeks and rivers or other bodies of water and other forms of disposal. This waste is not collected by town councils or private companies.

**2013**

**SUPPLY OF WASTE**

	Industries & Households	Imports	Environment	Total waste generated
Waste Residuals				
General Waste	146,399	0	0	146,399
Green waste	8,974	0	0	8,974
Special waste	6,679	0	0	6,679
<b>TOTALS</b>	<b>162,052</b>	<b>0</b>	<b>0</b>	<b>162,052</b>

**Who Collects the Waste**

Town/City Councils	Recycling Companies	Other Industries	Uncollected Waste	Total Collection
41,697		32,759	71,942	146,399
8,892		82		8,974
127		6,552		6,679
<b>50,716</b>		<b>39,393</b>	<b>71,942</b>	<b>162,052</b>

**USE OF WASTE**

Land Fill	Incineration	Recycling/ Reuse	Other Treatment	Export	TOTAL DISPOSAL
74,457			71,942		146,399
8,974					8,974
6,679					6,679
<b>90,109</b>			<b>71,942</b>		<b>162,052</b>

**2014**

**SUPPLY OF WASTE**

	Industries & Households	Imports	Environment	Total waste generated
Waste Residuals				
General Waste	64,016	0	0	64,016
Green waste	0	0	0	0
Special waste	0	0	0	0
<b>TOTALS</b>	<b>64,016</b>	<b>0</b>	<b>0</b>	<b>64,016</b>

**Who Collects the Waste**

Town/City Councils	Recycling Companies	Other Industries	Uncollected Waste	Total Collection
45,499		35,746	64,016	145,261
10,252		95		10,347
205		10,560		10,765
<b>55,956</b>		<b>46,401</b>	<b>64,016</b>	<b>166,373</b>

**USE OF WASTE**

Land Fill	Incineration	Recycling/ Reuse	Other Treatment	Export	TOTAL DISPOSAL
81,245			64,016		145,261
10,347					10,347
10,765					10,765
<b>102,357</b>			<b>64,016</b>		<b>166,373</b>

**2015**

**SUPPLY OF WASTE**

	Industries & Households	Imports	Environment	Total waste generated
Waste Residuals				
General Waste	59,018	0	0	59,018
Green waste	0	0	0	0
Special waste	0	0	0	0
<b>TOTALS</b>	<b>59,018</b>	<b>0</b>	<b>0</b>	<b>59,018</b>

**Who Collects the Waste**

Town/City Councils	Recycling Companies	Other Industries	Uncollected Waste	Total Collection
50,096		39,358	59,018	148,472
10,736		99		10,835
227		11,694		11,921
<b>61,058</b>		<b>51,151</b>	<b>59,018</b>	<b>171,228</b>

**USE OF WASTE**

Land Fill	Incineration	Recycling/ Reuse	Other Treatment	Export	TOTAL DISPOSAL
89,454			59,018		148,472
10,835					10,835
11,921					11,921
<b>112,210</b>			<b>59,018</b>		<b>171,228</b>

**2016**

**SUPPLY OF WASTE**

	Industries & Households	Imports	Environment	Total waste generated
Waste Residuals				
General Waste	54,758	0	0	54,758
Green waste	0	0	0	0
Special waste	0	0	0	0
<b>TOTALS</b>	<b>54,758</b>	<b>0</b>	<b>0</b>	<b>54,758</b>

**Who Collects the Waste**

Town/City Councils	Recycling Companies	Other Industries	Uncollected Waste	Total Collection
54,439		42,770	54,758	151,967
11,943		110		12,053
246		12,710		12,957
<b>66,628</b>		<b>55,591</b>	<b>54,758</b>	<b>176,977</b>

**USE OF WASTE**

Land Fill	Incineration	Recycling/ Reuse	Other Treatment	Export	TOTAL DISPOSAL
97,209			54,758		151,967
12,053					12,053
12,957					12,957
<b>122,219</b>			<b>54,758</b>		<b>176,977</b>

**2017**

**SUPPLY OF WASTE**

	Industries & Households	Imports	Environment	Total waste generated
Waste Residuals				
General Waste	155,628	0	0	155,628
Green waste	9,378	0	0	9,378
Special waste	13,897	0	0	13,897
<b>TOTALS</b>	<b>178,904</b>	<b>0</b>	<b>0</b>	<b>178,904</b>

**Who Collects the Waste**

Town/City Councils	Recycling Companies	Other Industries	Uncollected Waste	Total Collection
55,263		43,417	54,253	152,933
11,532		107		11,639
273		14,060		14,333
67,067		57,584	54,253	178,904

**USE OF WASTE**

Land Fill	Incineration	Recycling/ Reuse	Other Treatment	Export	TOTAL DISPOSAL
98,680			54,253		152,933
11,639					11,639
14,333					14,333
124,651			54,253		178,904

**2018**

**SUPPLY OF WASTE**

	Industries & Households	Imports	Environment	Total waste generated
Waste Residuals				
General Waste	159,071	0	0	159071.09
Green waste	11,759	0	0	11758.8
Special waste	14,244	0	0	14244.23
<b>TOTALS</b>	<b>185,074</b>	<b>0</b>	<b>0</b>	<b>185074.12</b>

**Who Collects the Waste**

Town/City Councils	Recycling Companies	Other Industries	Uncollected Waste	Total Collection
55,008		53,121	50,942	159,071
10,181		1,578		11,759
15		14,229		14,244
65,204	0	68,928	50,942	185,074

**USE OF WASTE**

Land Fill	Incineration	Recycling/ Reuse	Other Treatment	Export	TOTAL DISPOSAL
107,670		459	50,942		159,071
11,759					11,759
14,244					14,244
133,673	0	459	50,942	0	185,074