

AUSTRALIAN BIOMASS FOR BIOENERGY ASSESSMENT (ABBA)

BARWON SOUTH WEST (BSW) REGION PROFILE

The following region profile has been generated from Victorian biomass data collected as part of the national ABBA project to inform discussions around bioenergy opportunities.

Data is available via the Australian Renewable Energy Mapping Infrastructure (AREMI) – <https://nationalmap.gov.au/renewables/>

Based on modelled data, an estimated 1,336,138 tonnes of organic wastes were generated in the BSW Region in 2015–16, representing 15% of the state's total. A breakdown of this is provided in the Table and Figure below.

The following streams are of particular interest in this region:

- › The forestry sector the largest contributing sector in this region, accounting for 47% of organics generation.
- › Straw and chaff production from broadacre crops
- › Poultry litter from chicken meat farming
- › Dairy manure and effluent from dairy cow industry.
- › Paper and cardboard and organics (food, garden and timber) from other Commercial and Industrial sectors

For each residue, total waste generation has been modelled. Generally, this has involved considering a baseline production figure and applying a residue figure to this. The baseline production figures were derived from ABS data for primary production and from a combination of National Pollutant Inventory (NPI) data on businesses, raw survey data and desktop research for other sectors. In deciding whether to model a residue or not, the type and its validity in the context of bioenergy applications and its current use was assessed.

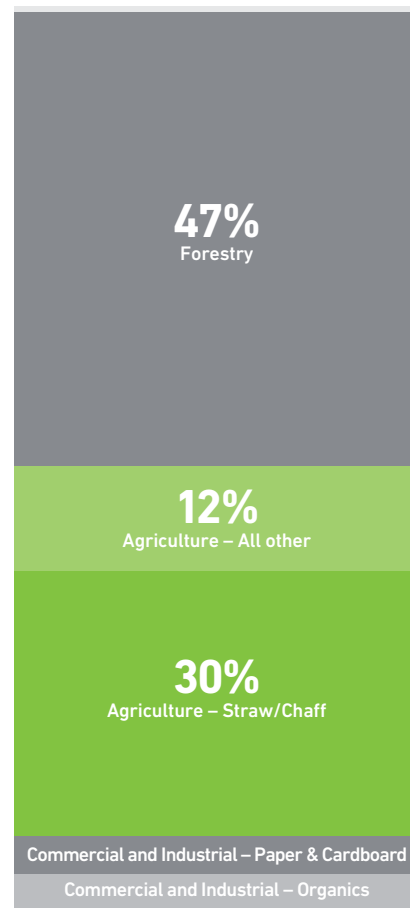


Figure: Barwon South West estimated approximate biomass composition*

* For details please see overleaf

Table: Barwon South West Biomass Assessment Summary

Sector	Stream	Tonnes generated per annum
Agricultural	Straw/chaff	398,932
	Grape marc	137
	Cull fruit and vegetable	900
	Dairy manure/effluent	147,358
	Cattle manure	15,901 ¹
	Poultry litter	3,033
	Pig manure/effluent	2,279
	Almond Hull and Shells	-
Commercial and Industrial - other	Paper & Cardboard	70,076
	Organics	56,133
Commercial and Industrial - manufacturing	Effluent	4,219
	Paunch	1,916
	Blood	300
	Dairy wastewater	1,505
	Processing solid waste	-
Forestry - Sawmills	Woodchips	110,561
	Bark	24,571
	Sawdust and Shavings	50,102
Forestry - Plantations	Stump	65,232
	Branch	141,093
	Bark	249,326
Municipal Solid Waste	Organics	-
	Paper & Cardboard	288
	Biosolids	-
Construction and Demolition	Food Organics	8
	Garden Organics	1,836
	Timber	6,641
Total Generated		1,336,138

For MSW fraction, only the quantities that are landfilled as reported in the Victorian Local Government Annual Survey (2014-15) are included.
¹ Requires updating

Further Information

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