

AUSTRALIAN BIOMASS FOR BIOENERGY ASSESSMENT (ABBA)

LODDON MALLEE (LM) 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 2,207,965 tonnes of organic wastes were generated in the LM region in 2014–15, representing 22% 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:

- › Straw and chaff production from broadacre crops
- › Almond hull and shell generation from almond processing
- › Poultry litter from chicken farming and layer and pullets.
- › Dairy manure and effluent from the dairy cattle industry
- › Pig manure and effluent from the pig farming 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.

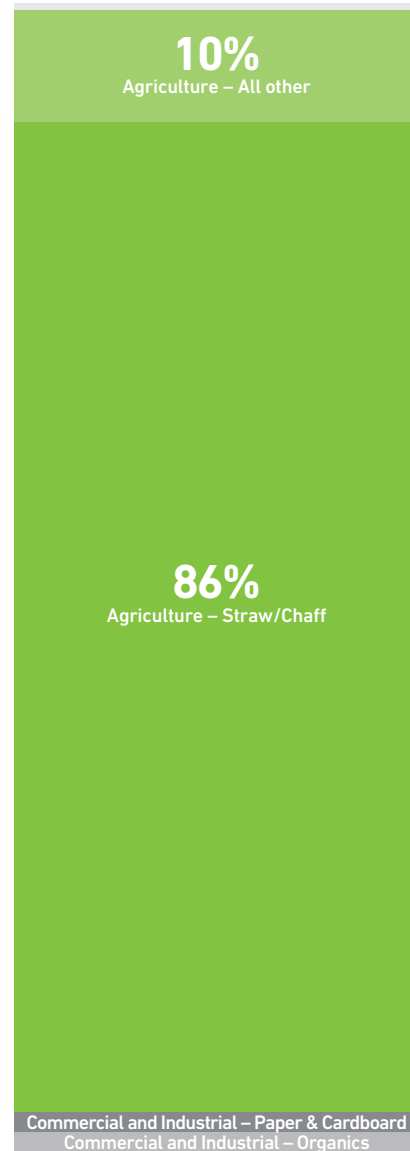


Figure: Loddon Mallee estimated approximate biomass composition*

* For details please see overleaf

Table: Loddon Mallee Biomass Assessment Summary

Sector	Stream	Tonnes generated per annum
Agricultural	Straw/chaff	1,898,830
	Grape marc	21,435
	Cull fruit and vegetable	15,336
	Dairy manure/effluent	31,366
	Cattle manure	3,549
	Poultry litter	20,723
	Pig manure/effluent	20,341
	Almond Hull and Shells	104,193
Commercial and Industrial - other	Paper & Cardboard	43,033
	Organics	33,476
Commercial and Industrial - manufacturing	Effluent	911
	Paunch	460
	Blood	-
	Wastewater	169
	Processing solid waste	-
Forestry - Sawmills	Woodchips	3,300
	Bark	733
	Sawdust and Shavings	1,495
Forestry - Plantations	Stump	580
	Branch	1,568
	Bark	2,375
Municipal Solid Waste	Organics	155
	Paper & Cardboard	-
	Biosolids	-
Construction and Demolition	Food Organics	3
	Garden Organics	920
	Timber	3,016
Total Generated		2,207,965

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

Further Information

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