

AUSTRALIAN BIOMASS FOR BIOENERGY ASSESSMENT (ABBA)

GRAMPIANS CENTRAL WEST (GCW) 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 2,209,686 tonnes of organic wastes were generated in the GCW Region in 2014–15, representing 22% of the state's total. A breakdown of this is provided in Table and Figure below.

The following streams are of particular interest in this region:

- Straw and chaff production from broadacre crops
- Bark residues from plantation forests and woodchip generation from sawmills
- Poultry litter from chicken farming and layer and pullets.
- 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.

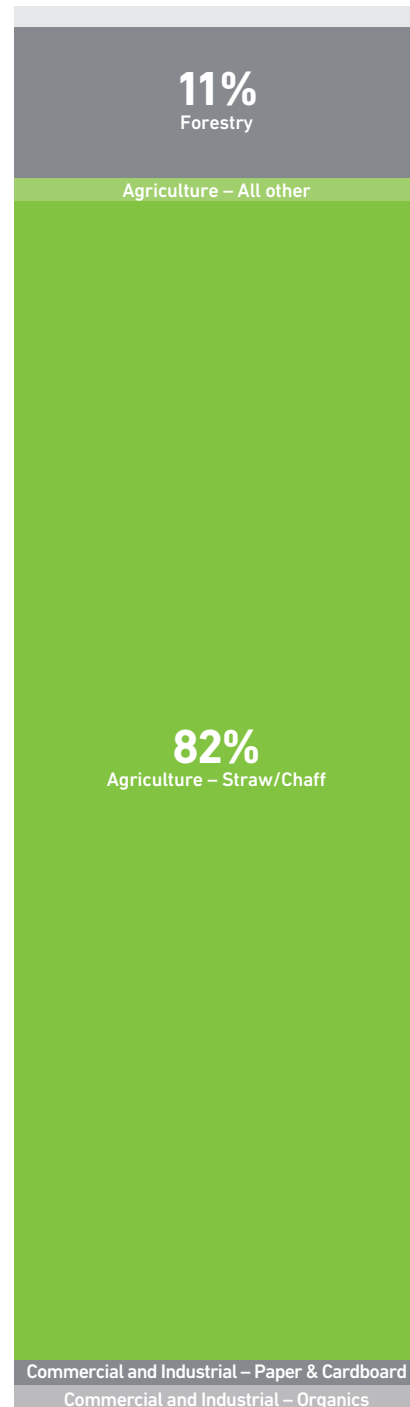


Figure: Grampians Central West estimated approximate biomass composition*

* For details please see overleaf

Table: Grampians Central West Biomass Assessment Summary

Sector	Stream	Tonnes generated per annum
Agricultural	Straw/chaff	1,818,844
	Grape marc	370
	Cull fruit and vegetable	2,706
	Dairy manure/effluent	3,615
	Cattle manure	4,233
	Poultry litter	10,465
	Pig manure/effluent	12,957
	Almond Hull and Shells	5
Commercial and Industrial - other	Paper & Cardboard	44,977
	Organics	41,307
Commercial and Industrial - manufacturing	Effluent	512
	Paunch	-
	Blood	360
	Wastewater	-
	Processing solid waste	-
Forestry - Sawmills	Woodchips	55,940
	Bark	12,431
	Sawdust and Shavings	25,350
Forestry - Plantations	Stump	18,872
	Branch	42,259
	Bark	84,943
Municipal Solid Waste	Organics	-
	Paper & Cardboard	449
	Biosolids	-
Construction and Demolition	Food Organics	42
	Garden Organics	5,508
	Timber	23,542
Total Generated		2,209,686

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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