

## Production in 2013

In 2013, 78 rendering establishments operated in Australia. Almost 1.3 million tonnes of rendered products were produced from about 2.8 million tonnes of raw material. The total value of rendered products in 2013 was about \$970 million.

All operating rendering plants were surveyed to determine the 2013 production of rendered products.

**Table1: Total production of animal protein meals in 2013**

Commodity	Production ('000 tonnes)	Value (A\$ '000,000)
Mixed meat and bone meal*	217.54	136.503
Bovine meat and bone meal	261.58	164.143
Ovine meat and bone meals	38.39	41.150
<b>Total meat and bone meal</b>	<b>517.51</b>	<b>341.800</b>
Poultry meal	79.15	71.154
Feather meal	37.85	26.612
Blood meal	28.06	27.226
<b>Total animal protein meal</b>	<b>662.57</b>	<b>466.788</b>

\*Includes small amounts of porcine and fish meal

**Table 2: Total production of animal fats in 2013**

Commodity	Production ('000 tonnes)	Value (A\$ '000,000)
Tallow	532.11	444.967
Poultry oil	66.22	57.285
<b>Total animal fats</b>	<b>598.33</b>	<b>502.252</b>

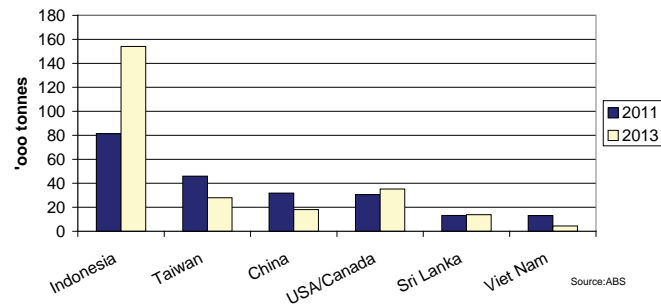
**Table 3: Production of rendered products by state in 2013**

State	Number of rendering establishments	Animal protein meals ('000 tonnes)	Animal fats ('000 tonnes)
Queensland	23	223.40	224.91
NSW	23	159.76	141.11
Victoria	13	148.70	120.22
South Australia	7	76.03	59.82
Western Australia	7	44.80	40.83
Tasmania	5	9.87	11.45

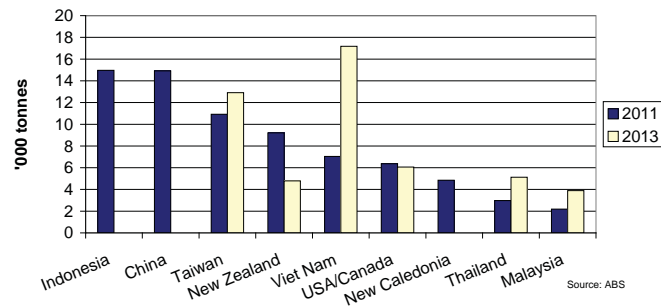
## Exports and other uses

About 52% of mammalian protein meals, 45% of poultry meals and about 72% of animal fats were exported in 2013. Figures 1 and 2 show the major destinations for Australian animal protein meals and Figure 3 shows major destination for animal fats in 2011 and 2013.

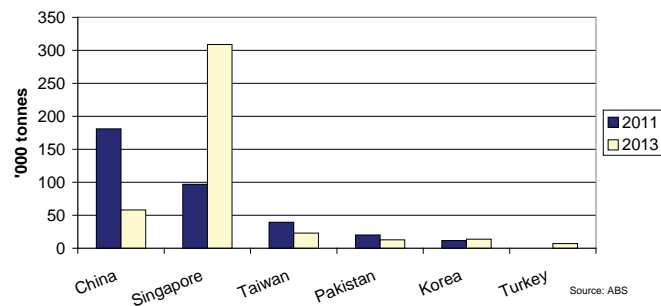
**Figure 1: Main destinations for mammalian MBM 2011 and 2013**



**Figure 2: Main destinations for poultry and feather meals 2011 and 2013**



**Figure 3: Main destinations for animal fats 2011 and 2013**



Total export volumes and estimates for the domestic use of animal protein meals and animal fats are shown in Table 4 and 5.

**Table 4: Uses of animal protein meals (meat and bone meal, poultry meal, feather meal and blood meal)**

Total production	662,564 tonnes
Exports	337,700 tonnes
Domestic poultry feeds (broiler and layer)	161,000 tonnes
Domestic pig feeds	85,000 tonnes
Domestic aquaculture feeds	40,000 tonnes
Domestic pet food	34,000 tonnes
Domestic fertilizer	5,000 tonnes

**Table 5: Uses of animal fats (tallow and poultry oil)**

Total production	598,336 tonnes
Exports	428,700 tonnes
Domestic oleo-chemical and industrial	10,000 tonnes
Domestic edible applications	35,000 tonnes
Domestic intensive animal production	45,000 tonnes
Domestic aquaculture feeds	20,000 tonnes
Domestic pet food	28,000 tonnes
Domestic biodiesel and fuel	30,000 tonnes
Other	1,500 tonnes

## Rendering production compared to 2011 and meat production

The previous ARA survey was in 2011. In 2011 there were about 81 rendering establishments in Australia compared with the 78 that were operating and were surveyed in 2013. There are an additional 6 specialty renderers that produce small quantities of products such as duck fat and emu oil.

Cattle, sheep and pig slaughter numbers were higher in 2013 than in 2011. Beef production increased by about 10% and sheep and lamb production increased by about 30%. Poultry production increased by about 5%. Slaughter numbers and carcass weight production in 2011 and 2013 are shown in Table 6.

The increase in slaughter numbers affected production of rendered products. Table 7 shows the difference in production in 2011 and 2013.

Exports of animal protein meals and tallow were higher in 2013 compared with 2011. There was strong demand and price premiums for meat and bone meal in export markets, particularly in Indonesia. Exports of poultry and feather meals were lower in 2013 compared with 2011. There were no exports to Indonesia and China due to

market restrictions following cases of avian influenza. Total exports of poultry meals were 53,000 tonnes in 2013 compared with 77,000 tonnes in 2011.

Tallow exports increased due to reduced domestic demand following the closure of Symex. Singapore was the major export market where tallow was used to produce renewable fuel.

**Table 6: Slaughter numbers and meat production in 2013 and 2011**

	2013 slaughter number (‘000 head)	2013 carcase production (‘000 tonnes)	2011 slaughter number (‘000 head)	2011 carcase production (‘000 tonnes)
Adult cattle	8,344.00	2,318.7	7,259.9	2,098.1
Sheep	9,614.6	216.6	4,832.6	129.0
Lambs	21,886.0	469.9	17,792.9	404.3
Pigs	4,777.3	359.9	4,718.7	341.6
Poultry	572,091.3	1066.5	546,758.1	1,012.5

**Table 7: Production of rendered products in 2013 and 2011**

	2013 production (‘000 tonnes)	2011 production (‘000 tonnes)	% change
Mammalian and mixed protein meals	545.56	501.8	+8.7
Poultry meal	79.15	76.2	+3.9
Feather meal	37.90	36.6	+3.5
Tallow	532.11	487.0	+9.3
Poultry oil	66.22	59.7	+10.9

## Yields

Production of rendered products was compared with carcase production at individual establishments. While yields, particularly tallow yields, depend on carcase types and other factors, typical yields per head are shown in Table 8. The yields in Table 8 relate to typical steer carcasses and do not include yields from long-term grain fed cattle or bulls and cows.

**Table 8: Typical yields per head of slaughtered stock**

	Meat and bone meal	Blood meal	Tallow
Cattle	40-45 kg	3 kg	45-55 kg
Sheep/lamb	2.4-2.9 kg	0.3 kg	3-4 kg



# AUSTRALIAN RENDERERS ASSOCIATION INC

## 2013

# RENDERING FACTS



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