

Production in 2015/16

In FY 2015/16, 77 rendering establishments operated in Australia. Over 1.25 million tonnes of rendered products were produced from about 2.7 million tonnes of raw material. The total value of rendered products was about \$880 million.

All operating rendering plants were surveyed to determine the 2015/16 production. The total production of the various products is shown in Tables 1 and 2. Table 3 shows production according to states.

Table 1: Total production of animal protein meals in 2015/16

Commodity	Production ('000 tonnes)	Value (A\$ '000,000)
Mixed meat and bone meal*	190.804	111.811
Bovine meat and bone meal	267.414	156.705
Ovine meat and bone meals	41.54	41.540
Total meat and bone meal	499.76	310.056
Poultry meal	85.62	78.770
Feather meal	38.97	24.161
Blood meal	27.61	25.871
Total animal protein meal	651.96	438.858

*Includes small amounts of porcine and fish meal

Table 2: Total production of animal fats in 2015/16

Commodity	Production ('000 tonnes)	Value (A\$ '000,000)
Tallow	542.08	385.961
Poultry oil	69.09	54.962
Total animal fats	611.18	440.922

Table 3: Production of rendered products by state in 2015/16

State	Number of rendering establishments	Animal protein meals ('000 tonnes)	Animal fats ('000 tonnes)
Queensland	22	216.75	230.84
NSW	21	160.17	149.33
Victoria	14	138.62	112.36
South Australia	8	74.86	64.74
Western Australia	7	49.06	41.98
Tasmania	5	12.65	11.90

Exports and other uses

About 50% of mammalian protein meals, 52% of poultry and feather meals and 73% of animal fats were exported in 2015/16. Figures 1 and 2 show the major destinations for Australian animal protein meals in 2015/16 and Figure 3 shows major destinations for animal fats.

Figure 1: Main destinations for mammalian MBM 2011, 2013 and 2015/16

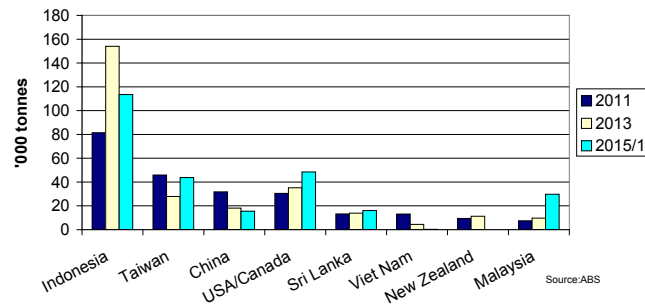


Figure 2: Main destinations for poultry and feather meals 2011, 2013 and 2015/16

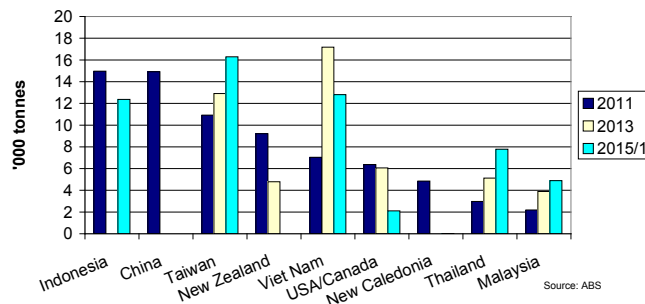
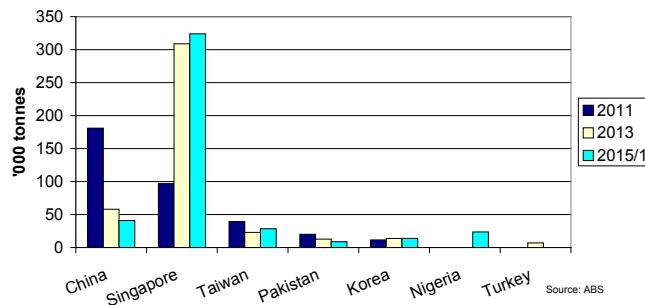


Figure 3: Main destinations for animal fats 2011, 2013 and 2015/16



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

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

Total production	651,960 tonnes
Exports	340,890 tonnes
Domestic poultry feeds (broiler and layer)	155,000 tonnes
Domestic pig feeds	75,000 tonnes
Domestic aquaculture feeds	40,000 tonnes
Domestic pet food	34,000 tonnes
Domestic fertilizer	7,000 tonnes

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

Total production	611,180 tonnes
Exports	448,120 tonnes
Domestic oleo-chemical and industrial	7,000 tonnes
Domestic edible applications	35,000 tonnes
Domestic intensive animal production	50,000 tonnes
Domestic aquaculture feeds	16,000 tonnes
Domestic pet food	30,000 tonnes
Domestic biodiesel and fuel	25,000 tonnes

Rendering production compared to 2013 and meat production

The previous ARA survey of production was in 2013. In 2013 there were about 78 rendering establishments in Australia compared with the 77 that were operating and were surveyed in 2015/16. There are another six specialty renderers that produce small quantities of products such as duck fat and emu oil.

Cattle slaughter numbers were down by about 150,000 head in 2015/16 compared with 2013. Combined sheep and lamb slaughter numbers were down by about 250,000 head.

Pig slaughter numbers increased by about 5% in 2015/16 compared with 2013. Poultry production increased by about 9%. Slaughter numbers and carcase weight production in 2013 and 2015/16 are shown in Table 6.

Production of animal protein meals was about 1.6% lower in 2015/16. Production of fats and oils was about 2% higher. Table 7 shows production in 2015/16 compared with 2013.

Exports of animal protein meals and tallow were higher in 2015/16 compared with 2013. Tallow exports increased by about 20,000 tonnes. However, tallow prices were lower compared with 2013 prices. In 2013, tallow prices were at a premium compared with palm stearine and other competing oils due to demand for tallow in biofuels. In 2015/16 prices returned to a more traditional relationship with other biofuel feed-stocks and the prices of those feed-stocks was weaker than in 2013. The overall value of rendered products

in 2015/16 was about \$90 million lower compared with 2013. The lower value of rendered products was mainly due to lower tallow prices but production of meat and bone meal was slightly weaker and prices of animal protein meals were also lower than in 2013.

Exports of poultry and feather meals picked up and there was access to Indonesia. The Chinese market remained closed to poultry products and while 2015/16 exports of poultry and feather meals was 65,360 tonnes compared with 53,000 tonnes in 2013 it was still less than 2011 exports of 77,000 tonnes.

Table 6: Slaughter numbers and meat production in 2015/16 and 2013

	2015/16 Slaughter number (‘000 head)	2015/16 Carcase Production (‘000 tonnes)	2013 Slaughter number (‘000 head)	2013 Carcase production (‘000 tonnes)
Adult cattle	8,188.80	2,316.00	8,344.00	2,318.7
Sheep	8,126.60	196.04	9,614.60	216.60
Lambs	23,131.2	516.48	21,886.00	469.90
Pigs	4,999.50	377.64	4,777.30	359.90
Poultry	623,276.50	1,154.36	572,091.30	1066.50

Source: ABS

Table 7: Production of rendered products in 2015/16 and 2013

	2015/16 production (‘000 tonnes)	2013 production (‘000 tonnes)	% change
Mammalian and mixed species protein meals	499.76	517.51	-3.4
Poultry meal	85.62	79.15	+8.2
Feather meal	38.97	37.90	+2.8
Blood meal	27.61	28.06	-1.6
Tallow	542.08	532.11	+1.9
Poultry oil	69.09	66.22	+4.3

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, examples of 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, cattle slaughtered for domestic consumption, or bulls and cows.

Table 8: Typical yields per head of slaughtered stock

	Meat and bone meal (kg)	Blood meal (kg)	Tallow (kg)
Cattle	40-50	2-4	40-50
Sheep/lamb	2.2-3.6	0.3-0.38	3-5



AUSTRALIAN RENDERERS ASSOCIATION INC



2015 - 16

RENDERING FACTS

Australian Renderers Association Inc.

PO Box 963

WARWICK QLD 4370

Telephone: 07 4661 9911

Facsimile: 07 4667 0199

E-mail: dennis.king@ausrenderers.com.au

Website: www.ausrenderers.com.au