

AWI Monitoring and Evaluation Review

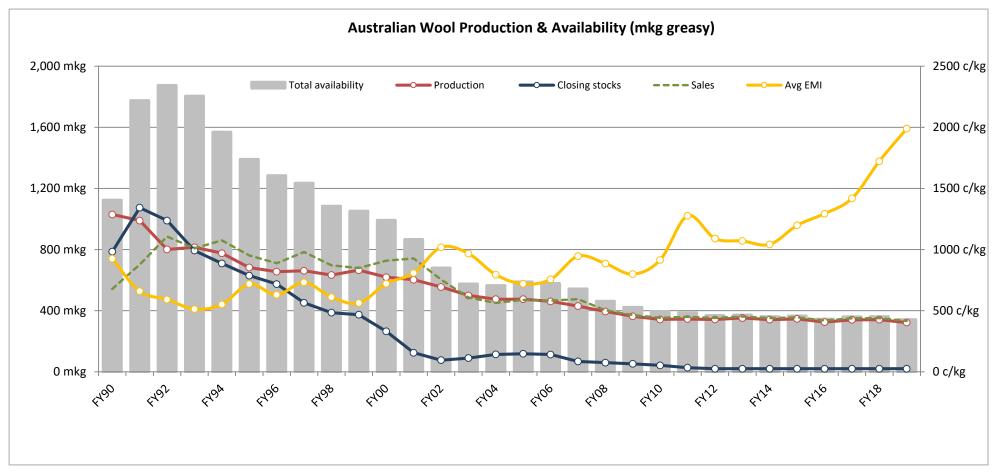
Key measures for analysing wool grower profitability

January 2019 AWI: M&E Review



Source: ABARES.

Australian wool production continues to shrink despite strong price signals ...

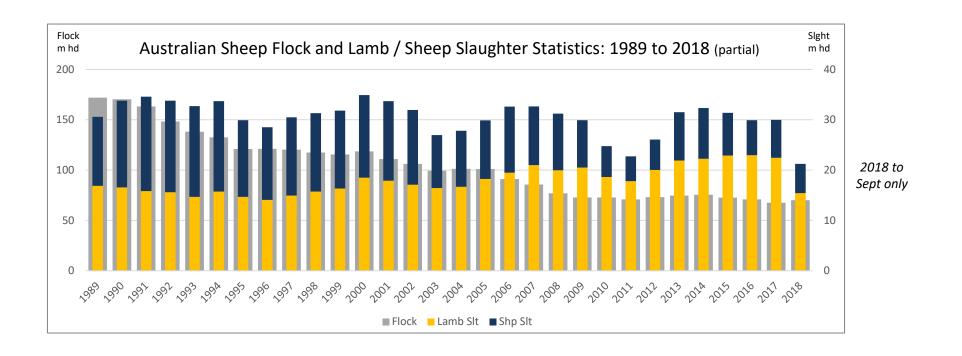


... indicating that wool price alone is not enough to reverse the contractionary trend



Source: ABARES.

The sheep sector has clearly moved to meat as the primary driver for running sheep ...

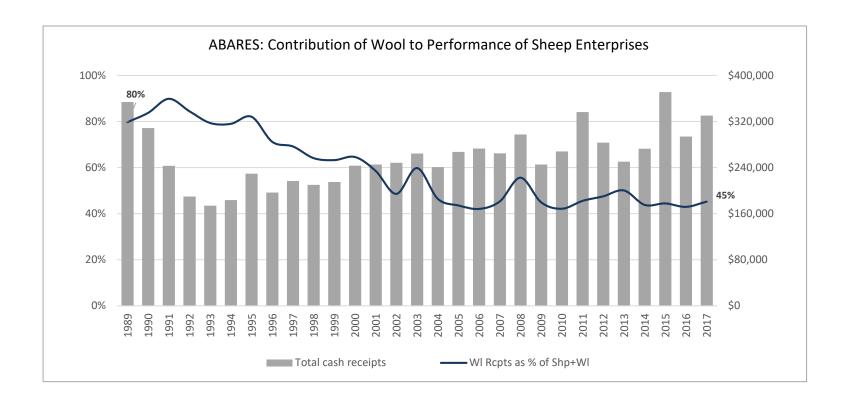


... with wool being a co-product – albeit of increasing value



Source: ABARES

Wool has shifted from being 80% of the revenue stream from running sheep to less than half ...

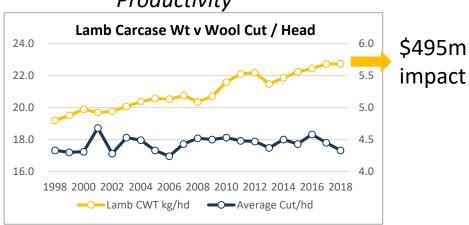


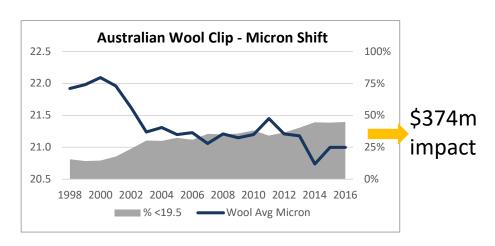
... despite the significant lift in wool prices in recent years



The value per unit of lamb production is outpacing wool ...

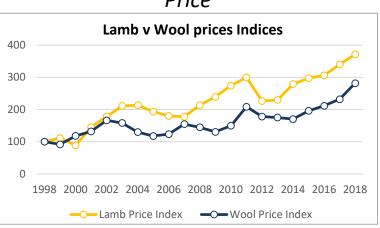






Source: ABARES, AWI, MLA - National data

Price



<u>Simplification</u>: *Wool demand and price driven by* fashion, growing middle class and competing fibres – meat demand and price by overall population growth, GDP growth, urbanisation and westernisation of diets in developing countries

The production decision is driven by profitability

... from both productivity and pricing perspectives



Source: ABARES.

Australian broadacre operations utilise ~\$350 billion of assets Specialist sheep (meat / wool) operations generate returns on assets below the average for broadacre enterprises ...

	Enterprise	Cropping	Mixed	Beef	Sheep- Beef	Sheep	All
Ungeared % return on farm assets	1989	5.2	4.7	1.1	2.6	4.5	3.5
managed across	1989-2017	3.7	1.4	0.4	0.4	0.2	1.4
enterprise types (Broadacre)	2013-2017	4.6	2.4	0.6	1.2	1.0	2.0
	2017	6.0	3.9	2.1	2.8	2.4	3.2

... although recent higher meat and wool prices have lifted performance



Segmenting the ABARES analysis by scale and management quartile identifies the opportunities for improvement ...

Australia: Sheep Enterprises – Ungeared % return on farm assets managed. 2013 to 2017 (average)

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	Scale / Quartile	Q4	Q3	Q2	Q1	All	
Ungeared % return	> 1m	1.1	3.3	5.4	8.1	4.2	
on farm assets managed for	500k – 1m	-0.3	1.6	3.4	6.1	2.6	Scale
specialist sheep /	200k – 500k	-2.0	0.1	1.3	3.3	0.7	
wool enterprises	< 200k	-5.2	-2.4	-0.8	0.8	-1.6	
	All	-1.8	0.5	1.9	3.3	1.0	

Management / adoption of productivity initiatives

... as well as those segments at risk from further restructuring / consolidation

Source: ABARES. Farm gate returns – scale depicted by range of value of EVAO – estimated value of agricultural operations. Returns also segmented into quartiles indicating management impact.



Segmenting the ABARES analysis by scale and management quartile identifies the opportunities for improvement ...

Australia: Sheep Enterprises – Ungeared % return on farm assets managed. 2013 to 2017 (average)

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Scale / Quartile	Q4	Q3	Q2	Q1	All	
> 1m				~25%	4.2	1
500k – 1m			~50%		2.6	Scale
200k – 500k		he wool clip d by farm			0.7	
< 200k	-	es that are eroding equity	y		-1.6	
All	-1.8	0.5	1.9	3.3	1.0	

Management / adoption of productivity initiatives and best practice

... as well as those segments at risk from further restructuring / consolidation

Source: ABARES. Farm gate returns – scale depicted by range of value of EVAO – estimated value of agricultural operations. Returns also segmented into quartiles indicating management impact



Specialist sheep (meat / wool) producers ultimately pursue a return on farm assets managed...

Australia: **Sheep** Enterprises – Capital employed per head of sheep. 2013 to 2017 (average)

Scale / Quartile	Q4	Q3	Q2	Q1	All
> 1m	1,150	1,002	738	557	840
500k – 1m	1,061	937	1,370	838	1,031
200k – 500k	1,362	1,194	1,068	784	1,054
< 200k	1,148	1,053	1,128	969	1,061
All	1,162	1,045	1,053	818	1,002

Average capital per head of sheep = \$1,002 Australia: **Sheep** Enterprises – Capital employed per kg of wool produced. 2013 to 2017 (average)

Scale / Quartile	Q4	Q3	Q2	Q1	All
> 1m	219	202	149	102	163
500k – 1m	231	184	312	193	223
200k – 500k	345	276	243	187	249
< 200k	297	285	306	248	279
All	262	237	242	188	228

Average capital per kilo of wool (greasy) of sheep = \$228

... and must match alternative commodities competing for the finite capital applied in agriculture

Source: ABARES. Farm gate returns – scale depicted by range of value of EVAO – estimated value of agricultural operations. Returns also segmented into quartiles indicating management impact. Capital inefficiency may be influenced by producers' capacity to fully stock subject to capital availability

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The direct allocation of farm assets to wool production is estimated at ~\$27 billion ...



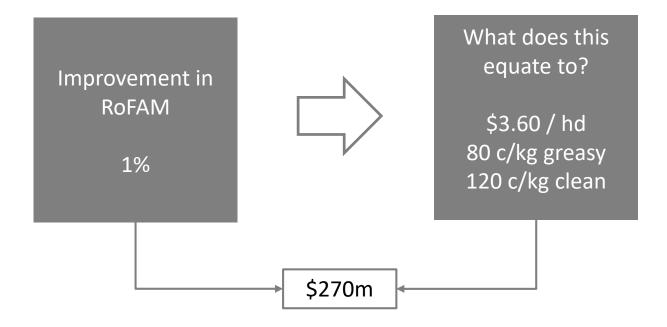
- To achieve a 1% increase in Return on Farm Assets Employed (RoFAM) related to wool production an increase in profitability of \sim \$3.60 per head of sheep or \$0.80 per kilogram of greasy wool is required (or a mix of the two)
- Alternatively, reducing the capital employed for a given unit of production (via productivity) will also increase capital yields

... implying each 1% increase in returns requires a net improvement of \$270m



Focussing on improving RoFAM simplifies the process of evaluating programs...

Example only



... with every contributing project assessed on the impact is has on RoFAM



Focussing on improving RoFAM simplifies the process of evaluating programs ...

Example only

SBTM = Sheep's back to mill

A 1% lift in RoFAM would equate to the following ...

Portfolio	Allocation	c/hd		c/kg greasy		c/kg clean	
Marketing	60%					72	6.4% of current EMI
Production	25%	90	or	20	or	30	1.6% of EMI / 8.3% of SBTM
Off-farm / extension	15%	54	or	12	or	18	1.0% of EMI / 5.0% of SBTM
		-		-		-	

Collectively generating gross \$270m per annum to wool producers

Question to ask: How does an initiative impact on the costs, revenues or capital employed across the wool value chain?

... with every contributing project assessed on the impact it has on RoFAM



Focussing on improving RoFAM simplifies the process of setting targets and evaluating programs...

	Return on Farn	n Assets Managed	
PRODUCTIVITY	EFFICIENCY	DEMAND	PRICE
Sheep Production Woolgrower Services	Sheep Production Woolgrower Services PIEE	Marketing Digital PIEE	Marketing Digital PIEE
Research Adoption	Research Adoption Supply chain	Market Access e.g. Emerging markets & new products Accessibility e.g. WoolQ	Marketing Campaigns Supply Chain



Identifying measurable outcomes will define the baseline measures required ...





Outcomes /
Key Metrics /
Baselines

On farm

- ABS
- ABARES
- SBTM
- AWI Surveys
- Project based

Supply chain

- SBTM
- IWTO
- AWI Surveys

Demand side

- IWTO
- Nielsen
- FAO
- EIU
- AWI Surveys



Q & A