

## Macalister Demonstration Farm

### Macalister Demonstration Farm Update 455 (Week ending August 11th, 2017)

*What's been going on at the MDF?*

MACALISTER DEMONSTRATION FARM	Farm Location: Maffra		
Description: The MDF is located at Maffra in Gippsland Victoria in the Macalister Irrigation District. The farm has a milking area of 73 ha and is fully irrigated.	Two weeks ago	28/07/2017	
<u>Production</u>			
Cow numbers (herd and vat)	65 milkers with 31 of these fresh	107 milkers	
Cow production/day	15.4	15.0	litres
Fat %	3.83	4.1%	%
Protein %	4.09	3.85%	%
Kg milk solids/cow /day	1.22		kgMS
BMCC	220,000	205,000	
<u>Grazing and Feeding</u>			
Concentrates	2.9	3.6	kgDM/day
Cost of concentrate (wheat)	\$0.32	\$0.32	c/kg DM
Additive (mineral)	0.18c	0.18c	c/cow
Cost of hay	0	0	c/kgDM
Silage	0	0	kgDM/day
Cost of silage	0	0	c/kgDM
Pasture demand (milkers)	11.4	11.4	kg DM/cow/day
Pasture demand (kgDM/ha/day) (total of all stock on the farm)	22.6	27	kg DM/ha/day
Area in rotation (ha)	58	58	ha
Rotation length milkers (days)	73	73	days
Grazing Area (ha per 24 hours)	0.8	0.7 milkers	ha
<u>Daily Income over Supplementary Feed Costs (IOSFC)</u>			
Milk Price (on current tests)	\$5.40	\$4.75	\$/kg milk solids
Milk Price	42.2	37.7	c/litre
**Income/cow	\$6.59	\$	\$/cow/day
Supplementary Feed Cost/cow	\$1.11	\$1.11	\$/cow/day
IOSFC/cow	\$5.48	\$	\$/cow/day
IOSFC/milking ha	\$4.88	\$	\$/ha/day
Net litres/cow	13		Litres/day
Irrigated pasture cost	0	0	\$/cow/day
Irrigated pasture cost	\$0.14	\$0.14	c/kg DM
Net margin after supplements and irrigated pasture	\$4.88	\$	\$/cow/day

- 124 Dry cows are getting around 3kgDM pasture and 6kgDM dry cow hay;
- 62 Springers are getting ad lib oaten hay, strip of pasture and 3kg lead feed pellets;
- 36 calving heifers are getting strip of grass, 1kg grain in the dairy and dry cow hay.
- There are 28 fresh cows in a separate herd.

- Only two milk fever cases to date from around 100 calved cows.

### 2016/17 final results:

Here is a summary of the 2016/17 compared to the 2015/16 physical and financial results for the Macalister Demonstration Farm. In my opinion, given the low milk price, the results are very strong and are a credit to the labour force. A focus on pasture consumption, cost reduction, efficient feeding, and a system that is simple and effective, has helped to deliver a strong result. What should also be noted is the highly efficient labour. There were 2.3 Full Time Equivalent labour units generating 66,862kgMS/labour unit. This is nothing short of excellent and credit needs to be given to Mahesh and Tim.

	2015/16	2016/17
<b>Cows</b>	290	300
<b>Total milk solids</b>	141,956	151,108
<b>Milk solids per cow</b>	490kg	504kg
<b>Milk solids per effective ha</b>	1938kg	2070kg
<b>Pasture consumed per effective ha</b>	12.6tDM/ha	13.3tDM
<b>Pasture consumed per cow</b>	3.2tDM	3.2tDM
<b>kgMS/FTE</b>	62,812kgMS	66,862kgMS
<b>Milk price</b>	\$5.27/kgMS	\$4.66/kgMS
<b>Herd costs per cow</b>	\$203	\$349
<b>Per kgMS</b>	\$0.42	\$0.69
<b>Shed costs per cow</b>	\$85	\$93
<b>Per kgMS</b>	\$0.17	\$0.18
<b>Feed costs per cow</b>	\$1,496	\$1,093
<b>Per kgMS</b>	\$3.07	\$2.17
<b>Overhead costs per cow</b>	\$273	\$238
<b>perkgMS</b>	\$0.56	\$0.47
<b>Total labour per cow</b>	\$589	\$535
<b>Per kgMS</b>	\$1.21	\$1.06
<b>Finance costs per cow</b>	\$198	\$196
<b>Per kgMS</b>	\$0.40	\$0.39
<b>Cash surplus</b>	-\$3,802	+\$36,617
<b>EBIT total</b>	\$39,424	\$82,735
<b>Per cow</b>	\$136	\$276
<b>Return on Assets</b>	1.5%	3.22%

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