

Macalister Demonstration Farm, Dairy Australia, Extension Project

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Macalister Demonstration Farm Update 344 (Week ending Apr 12, 2013)

The Macalister Demonstration Farm is milking 280 cows grazing 73 hectares, a stocking rate of 3.8 cows per hectare. The daily allocation is one 40th of the grazing area and the actual grazing rest time is 27 days.

Compared to the previous week, milk production per cow is up from 1.40 to 1.52 kg milk solids (MS) per cow per day. Litres per cow per day are up from 16.4 to 17.9. Milk fat test has fallen from 4.94% to 4.79% (fat yield is up from 0.81 to 0.86 kg per cow per day). Milk protein test is up from 3.60% to 3.70% (protein yield is up from 0.59 to 0.66 kg per cow per day). This time last year, milk production was 19.7 litres, 1.64 kg MS, 0.89 kg fat, and 0.75 kg protein per cow per day.

The daily pasture consumption from the grazing area is up from 25 to 29 kg dry matter at (DM) per hectare per day. The pasture consumption per cow is up from 6.3 to 7.5 kg DM per cow per day. This time last year, pasture consumption was 28 kg DM per hectare per day, and 7.3 kg DM per cow per day.

3.0 mm of irrigation water, 0.6 kg of nitrogen element, and \$0.19 of pasture renovation, all per hectare per day, have contributed to the current pasture consumption. The daily spend on these pasture inputs totals \$3.15 per hectare per day. Based on those cash inputs only, the consumed pasture price is estimated to be \$110 per tonne of dry matter.

Supplementary feed includes 5.3 kg DM per cow of a complete pellet containing minerals and Rumensin, at a price of \$397 per DM tonne, and 2.7 kg DM of PKE.

The Bulk Milk Cell Count for the week was 147,000, down from 155,000. This time last year the BMCC was 162,000.

The milk price (less compulsory levies) the MDF anticipates receiving for the week's milk is \$5.65 per kg milk solids, or 48.0 cents per litre. This time last year it was \$6.17 and 51.2 cents.

Milk income per cow per day is up from \$7.51 to \$8.59, made up of \$3.09 for the fat (up from \$2.82), \$5.97 for the protein (up from \$5.12), and minus \$0.47 for the litres. This time last year milk income per cow per day was \$10.11.

Feed cost per cow per day (including pasture and supplements) are down from \$3.88 to \$3.81 per cow per day, leaving a Margin over All Feed (MOAF) per cow of \$4.78, up from \$3.63. This time last year the feed margin per cow was \$6.74. The margin over all feed per hectare is \$18.33 (last year \$26.11). The whole farm feed margin is \$1,338, up from \$1,017 per day. This time last year the whole farm feed margin was \$1,854 per day.

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WEEKLY FEEDING PERFORMANCE	Last Year	Last week	This week	Units
Week to date:	13-Apr	5-Apr	12-Apr	
Milker graze area	71	71	73	ha
Milker nos	275	280	280	head
Stocking rate	3.9	3.9	3.8	cows/ha
Grazing allocation 1/	36	40	40	th of graze area
Average graze rest time	29	28	27	days
mm irrigation/hectare/day	0.0	3.0	3.0	mm water/ha/day
Element Nitrogen	0.9	0.6	0.6	kg element/ha/day
Element Phosphorus	0.03	0.00	0.00	kg element/ha/day
Element Potassium	0.15	0.00	0.00	kg element/ha/day
Renovation	\$0.19	\$0.19	\$0.19	\$/ha/day
Topping	\$0.39	\$0.00	\$0.00	\$/ha/day
Estm'd pasture consmp'n (incl cons'vd forage)	28	25	29	kg DM/ha/dy
Pasture consum'd per cow	7.3	6.3	7.5	kg DM/cow/dy
Daily spend / milking ha	\$2.25	\$3.15	\$3.15	\$/ha/day
Estm'd pasture price	\$79	\$129	\$110	\$/T DM
Conc (incl additives)supp fed/cow	7.1	5.3	5.3	kg DM/cow/dy
Hay/silage supp fed/cow	0.0	0.6	0.0	kg DM/cow/dy
PKE supp fed/cow	1.5	2.7	2.7	kg DM/cow/dy
Estim'd supp waste	3%	4%	4%	%
Conc (incl additives)supp avg price	\$333	\$397	\$397	\$/T DM
Purch hay/silage supp avg price	\$0	\$0	\$0	\$/T DM
PKE supp price	\$271	\$322	\$322	\$/T DM
Total feed intake/cow	15.7	14.6	15.2	kg DM/cow/dy
Estm'd body cond'tn change	0.10	0.00	0.00	kg LWT/cow/dy
Litres/cow	19.7	16.4	17.9	l/cow/day
Fat test	4.51%	4.94%	4.79%	%
Protein test	3.80%	3.60%	3.70%	%
Fat per cow	0.889	0.812	0.858	kg/cow/dy
Protein per cow	0.749	0.591	0.663	kg/cow/dy
MS per cow	1.64	1.40	1.52	kg/cow/dy
Anticipated final milk price (less levies)	\$6.17	\$5.35	\$5.65	\$/kg MS
Anticipated final milk price (/litre)	\$0.512	\$0.457	\$0.480	\$ per litre
Fat return per cow	\$3.42	\$2.82	\$3.09	\$/cow/dy
Protein return per cow	\$7.20	\$5.12	\$5.97	\$/cow/dy
Volume charge per cow	\$0.52	\$0.43	\$0.47	\$/cow/dy
Milk income/cow	\$10.11	\$7.51	\$8.59	\$/cow/dy
All feed cost/cow	\$3.37	\$3.88	\$3.81	\$/cow/dy
Margin over all Feed/cow	\$6.74	\$3.63	\$4.78	\$/cow/dy
MOAF /ha /day	\$26.11	\$14.32	\$18.33	\$/ha/day
Farm MOAF per DAY	\$1,854	\$1,017	\$1,338	\$/day

MOAF per month	\$56,534	\$31,003	\$40,814	\$/month
Energy density of diet	12.2	11.8	11.8	MJ ME/kg DM
Crude protein % of diet	18.4%	22.2%	22.5%	% CP
NDF Fibre level of diet	30.4%	34.9%	34.9%	% NDF
FCE kg MS per tonne DM food	103	93	98	
Tonne feed /day	4.4	4.0	4.4	tonne DM /day
Milk Return /tonne feed	\$632	\$522	\$553	\$/tonne DM
Average Price of feed	\$211	\$271	\$245	\$/tonne DM
Margin /tonne feed	\$422	\$251	\$307	\$/tonne DM
BMCC	162	155	147	