

Macalister Demonstration Farm, Dairy Australia, Extension Project

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Macalister Demonstration Farm Update 262 (Week ending Aug 19, 2011)

The Macalister Demonstration Farm is now milking 40 cows, grazing 16 hectares, a stocking rate of 2.5 cows per hectare. Last year at this time, there were 86 milkers, and the stocking rate was 2.9 cows per hectare. The daily allocation for the week is one 50th of the grazing area, and the actual grazing rest time is also 50 days.

Compared to last week, milk production per cow is up from 1.38 to 1.49 kg milk solids (MS) per cow per day. Litres per cow per day are up from 17.1 to 18.4. Milk fat test has risen from 4.01% to 4.08% (fat yield is up from 0.70 to 0.75 kg per cow per day). The protein test has fallen from 4.06% to 4.02% (protein yield is up from 0.70 to 0.74 kg per cow per day). This time last year, milk production was 22.9 litres, 1.86 kg MS, 1.03 kg fat, and 0.82 kg protein per cow per day.

The daily pasture consumption from the grazing area is up from 28 to 29 kg dry matter (DM) per hectare per day. The pasture consumption per cow is up from 10.9 to 11.4 kg DM per cow per day. This time last year, pasture consumption was 33 kg DM per hectare per day, and 11.3 kg DM per cow per day.

1.0 kg nitrogen element, 0.07 kg potassium, no phosphorus, no irrigation, no topping, 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 is \$1.78 per hectare per day. Based on those cash inputs only, the consumed pasture price is estimated to be \$62 per tonne of dry matter, down from \$63.

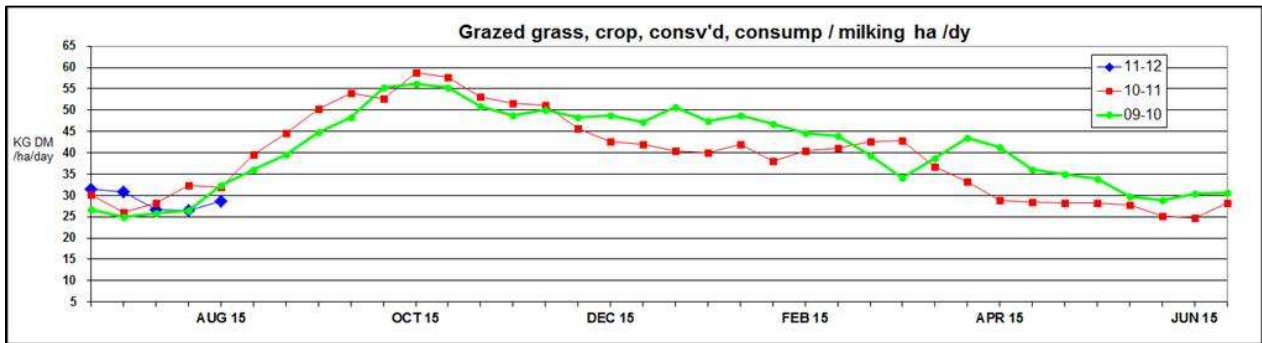
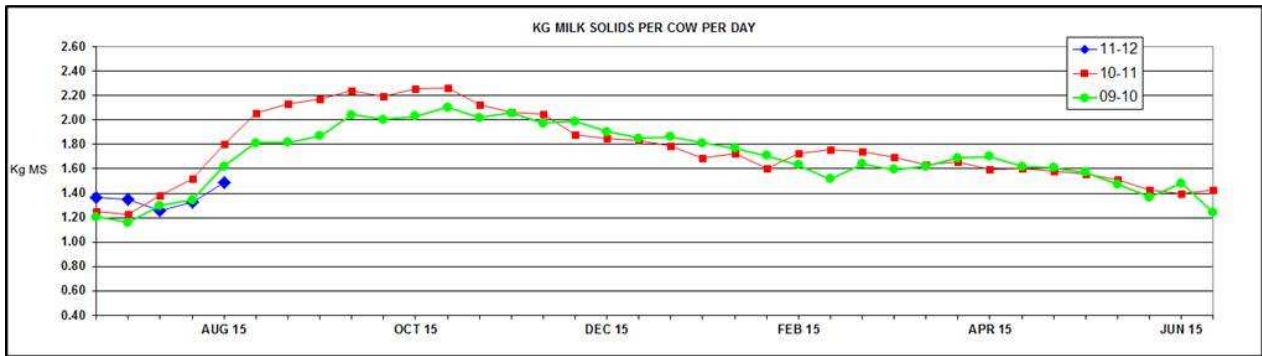
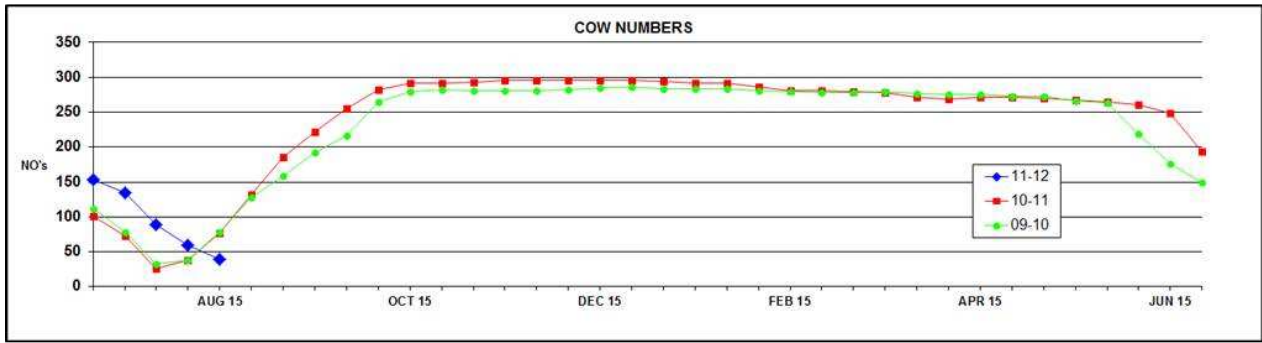
Supplementary concentrates include crushed wheat and minerals totalling 5.4 kg DM per cow per day, at an average price of \$330 per DM tonne. The cows have access to some oaten hay at the dairy, but eat very little.

The BMCC has risen from 123 to 134. This time last year the BMCC was 168. For the period ending 10th August 2011, the MDF's BMCC was 118,000 and was ranked 11th out of 357 suppliers.

The milk price (less compulsory levies) that the MDF anticipates receiving for the week is \$5.50 per kg milk solids, or 44.5 cents per litre. Milk income per cow per day is up from \$7.70 to \$8.16, made up of \$2.49 for the fat, \$6.15 for the protein, and minus \$0.48 for the litres. This time last year milk income per cow per day was \$9.59.

Feed cost per cow per day (including pasture and supplements) is up from \$2.47 to \$2.50 per cow per day, leaving a Margin over All Feed (MOAF) per cow of \$5.67, up from \$5.23 per day. The margin over all feed per hectare is \$14.17. The whole farm feed margin is \$227, down from \$268 per day. This time last year the whole farm feed margin was \$636 per day.

The MDF achieved an Earnings before Interest and Tax (EBIT) for 2010-2011 of \$194,269, up from \$40,995 in 2010-09. This amount includes all operating costs, all staff costs, depreciation, and livestock trading. It has to pay for only interest on debt and capital improvements. Being a co-operative, the MDF pays no tax. The MDF Margin Over all Feed was \$480,317 up from \$313,473. The milk price was \$5.45 per kg MS (\$0.42 per litre), up from \$4.42 (\$0.34 per litre).



WEEKLY FEEDING PERFORMANCE	Last Year	Last week	This week	Units
Week to date:	20-Aug	12-Aug	19-Aug	
Milker graze area	30	20	16	ha
Milker nos	86	52	40	head
Average days in milk		315	315	days
Stocking rate	2.9	2.6	2.5	cows/ha
Grazing allocation 1/	52	50	50	th of graze area
Average graze rest time	55	50	50	days
Element N/hectare/day	1.2	1.0	1.0	kg element/ha/day
mm irrigation/hectare/day	0.0	0.0	0.0	mm water/ha/day
Estm'd pasture consmp'n (incl cons'vd forage)	33	28	29	kg DM/ha/dy
Pasture consum'd per cow	11.3	10.9	11.4	kg DM/cow/dy
Daily spend / milking ha	\$2.06	\$1.78	\$1.78	\$/ha/day
Estm'd pasture price	\$65	\$63	\$62	\$/T DM
Conc (incl additives)supp fed/cow	4.2	5.4	5.4	kg DM/cow/dy
Hay/silage supp fed/cow	0.9	0.0	0.0	kg DM/cow/dy
PKE supp fed/cow	0.0	0.0	0.0	kg DM/cow/dy
Estim'd supp waste	5%	3%	3%	%
Conc (incl additives)supp avg price	\$316	\$330	\$330	\$/T DM
Hay/silage supp avg price	\$241	\$0	\$0	\$/T DM
PKE supp price	\$0	\$0	\$0	\$/T DM
Total feed intake/cow	16.1	16.1	16.7	kg DM/cow/dy
Estm'd body cond't'n change	-0.20	0.40	0.40	kg LWT/cow/dy
Litres/cow	22.9	17.1	18.4	l/cow/day
Fat test	4.52%	4.01%	4.08%	%
Protein test	3.61%	4.06%	4.02%	%
Fat per cow	1.028	0.696	0.748	kg/cow/dy
Protein per cow	0.822	0.699	0.737	kg/cow/dy
MS per cow	1.86	1.38	1.49	kg/cow/dy
Anticipated final milk price (less levies)	\$5.19	\$5.52	\$5.50	\$/kg MS
Anticipated final milk price (/litre)	\$0.421	\$0.447	\$0.445	\$ per litre
Fat return per cow	\$3.40	\$2.32	\$2.49	\$/cow/dy
Protein return per cow	\$6.79	\$5.83	\$6.15	\$/cow/dy
Volume charge per cow	\$0.59	\$0.45	\$0.48	\$/cow/dy
Milk income/cow	\$9.59	\$7.70	\$8.16	\$/cow/dy
All feed cost/cow	\$2.25	\$2.47	\$2.50	\$/cow/dy
Margin over all Feed/cow	\$7.35	\$5.23	\$5.67	\$/cow/dy
MOAF /ha /day	\$21.21	\$13.59	\$14.17	\$/ha/day
Farm MOAF per DAY	\$636	\$268	\$227	\$/day
MOAF per month	\$19,406	\$8,168	\$6,915	\$/month
Energy density of diet	12.3	12.3	12.3	MJ ME/kg DM
Crude protein % of diet	21.1%	19.9%	20.0%	% CP
NDF Fibre level of diet	33.9%	30.5%	30.7%	% NDF
FCE kg MS per tonne DM food	113	86	88	
Tonne feed /day	1.4	0.8	0.7	tonne DM /day
Milk Return /tonne feed	\$587	\$473	\$485	\$/tonne DM
Average Price of feed	\$138	\$152	\$148	\$/tonne DM
Margin /tonne feed	\$449	\$321	\$337	\$/tonne DM
BMCC	168	123	134	