

Macalister Demonstration Farm, Dairy Australia, Extension Project

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Macalister Demonstration Farm Update 316 (Week ending Sep 21, 2012)

The Macalister Demonstration Farm is now milking 203 cows grazing 57 hectares, a stocking rate of 3.6 cows per hectare. The daily allocation is one 45th of the grazing area and the actual grazing rest time 49 days.

Compared to the previous week, milk production per cow is down from 2.12 to 2.03 kg milk solids (MS) per cow per day. Litres per cow per day are down from 28.8 to 27.9. Milk fat test has fallen from 3.79% to 3.73% (fat yield is down from 1.09 to 1.05 kg per cow per day). Milk protein test has fallen from 3.55% to 3.52% (protein yield has fallen from 1.02 to 0.99 kg per cow per day). This time last year, milk production was 25.9 litres, 2.03 kg MS, 1.13 kg fat, and 0.90 kg protein per cow per day.

The daily pasture consumption from the grazing area is up from 40 to 43 kg dry matter (DM) per hectare per day. The pasture consumption per cow is down from 12.5 to 12.2 kg DM per cow per day. This time last year, pasture consumption was 49 kg DM per hectare per day, and 12.7 kg DM per cow per day.

0.5 mm of irrigation water, 0.8 kg of nitrogen element, 0.05 kg phosphorus element, 0.19 kg of potassium 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 \$2.20 per hectare per day. Based on those cash inputs only, the consumed pasture price is estimated to be \$51 per tonne of dry matter, up from \$51 last week.

Supplementary feed includes crushed wheat, and a pellet containing 25% protein, minerals, Rumensin, and Tylan, totalling 4.5 kg DM, average price of \$369 per DM tonne, and 0.7 kg DM PKE per cow per day, average price of \$289 per DM tonne.

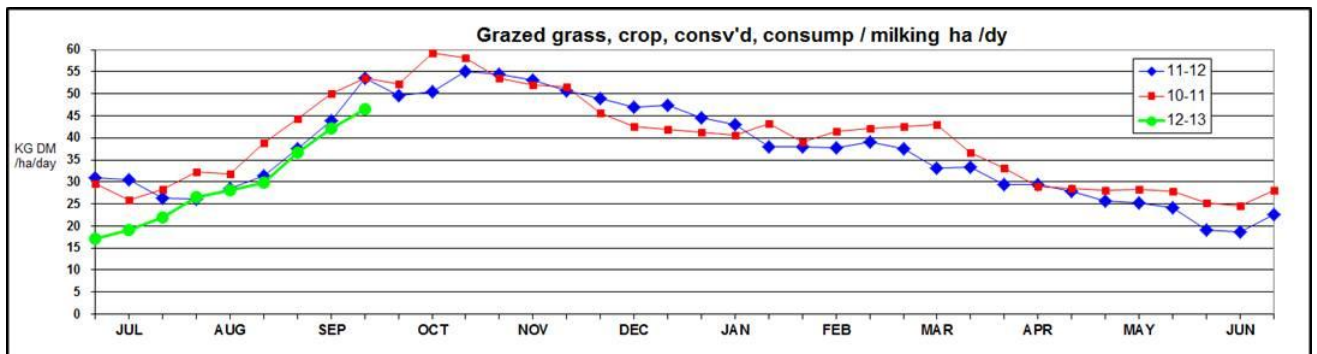
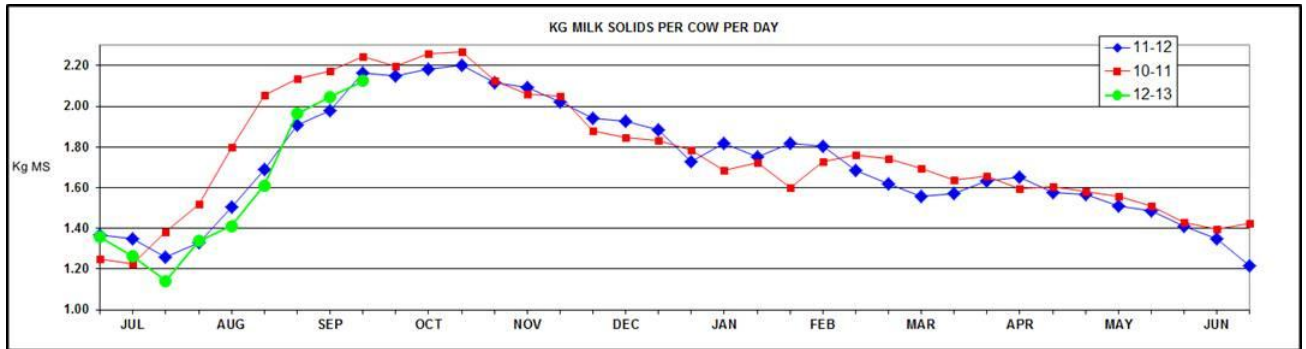
The Bulk Milk Cell Count for the week was 77,000. This time last year the BMCC was 130,000.

The milk price (less compulsory levies) the MDF anticipates receiving for the week's milk is \$4.24 per kg milk solids, or 30.8 cents per litre.

Milk income per cow per day is down from \$8.96 to \$8.63, made up of \$2.79 for the fat, \$6.57 for the protein, and minus \$0.73 for the litres. This time last year milk income per cow per day was \$9.43.

Feed cost per cow per day (including pasture and supplements) is down from \$2.47 to \$2.45 per cow per day, leaving a Margin over All Feed (MOAF) per cow of \$6.17, down from \$6.49. The margin over all feed per hectare is \$21.97. The whole farm feed margin is \$1,240, up from \$942 per day. This time last year the whole farm feed margin was \$1,739 per day.

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WEEKLY FEEDING PERFORMANCE	Last Year	Last week	This week	Units
Week to date:	23-Sep	14-Sep	21-Sep	
Milker graze area	63	45	57	ha
Milker nos	238	145	203	head
Stocking rate	3.8	3.2	3.6	cows/ha
Grazing allocation 1/	40	45	45	th of graze area
Average graze rest time	38	51	49	days
mm irrigation/hectare/day	1.1	0.0	0.5	mm water/ha/day
Element Nitrogen	0.9	0.8	0.8	kg element/ha/day
Element Phosphorus	0.00	0.05	0.05	kg element/ha/day
Element Potassium	0.06	0.19	0.19	kg element/ha/day
Renovation	\$0.19	\$0.19	\$0.19	\$/ha/day
Topping	\$0.00	\$0.00	\$0.00	\$/ha/day
Estm'd pasture consmp'n (incl cons'vd forage)	49	40	43	kg DM/ha/dy
Pasture consum'd per cow	12.7	12.5	12.2	kg DM/cow/dy
Daily spend / milking ha	\$2.26	\$1.85	\$2.20	\$/ha/day
Estm'd pasture price	\$46	\$46	\$51	\$/T DM
Conc (incl additives)supp fed/cow	4.2	5.3	4.5	kg DM/cow/dy
Hay/silage supp fed/cow	0.4	0.0	0.0	kg DM/cow/dy
PKE supp fed/cow	0.0	0.0	0.7	kg DM/cow/dy
Estim'd supp waste	4%	3%	3%	%
Conc (incl additives)supp avg price	\$337	\$354	\$369	\$/T DM
Hay/silage supp avg price	\$216	\$0	\$0	\$/T DM
PKE supp price	\$0	\$0	\$289	\$/T DM
Total feed intake/cow	17.2	17.7	17.2	kg DM/cow/dy
Estm'd body cond't'n change	-0.20	-0.10	-0.18	kg LWWT/cow/dy
Litres/cow	25.9	28.8	27.9	l/cow/day
Fat test	4.36%	3.79%	3.73%	%

WEEKLY FEEDING PERFORMANCE	Last Year	Last week	This week	Units
Protein test	3.48%	3.55%	3.52%	%
Fat per cow	1.131	1.093	1.046	kg/cow/dy
Protein per cow	0.902	1.021	0.988	kg/cow/dy
MS per cow	2.03	2.12	2.03	kg/cow/dy
Anticipated final milk price (less levies)	\$4.64	\$4.24	\$4.24	\$/kg MS
Anticipated final milk price (/litre)	\$0.364	\$0.312	\$0.308	\$ per litre
Fat return per cow	\$3.37	\$2.91	\$2.79	\$/cow/dy
Protein return per cow	\$6.74	\$6.79	\$6.57	\$/cow/dy
Volume charge per cow	\$0.68	\$0.75	\$0.73	\$/cow/dy
Milk income/cow	\$9.43	\$8.96	\$8.63	\$/cow/dy
All feed cost/cow	\$2.11	\$2.47	\$2.45	\$/cow/dy
Margin over all Feed/cow	\$7.32	\$6.49	\$6.17	\$/cow/dy
MOAF /ha /day	\$27.60	\$20.75	\$21.97	\$/ha/day
Farm MOAF per DAY	\$1,739	\$942	\$1,240	\$/day
MOAF per month	\$53,040	\$28,733	\$37,808	\$/month
Energy density of diet	12.3	12.5	12.5	MJ ME/kg DM
Crude protein % of diet	21.1%	20.8%	21.2%	% CP
NDF Fibre level of diet	33.0%	31.0%	33.0%	% NDF
FCE kg MS per tonne DM food	117	119	117	
Tonne feed /day	4.1	2.6	3.5	tonne DM /day
Milk Return /tonne feed	\$542	\$502	\$498	\$/tonne DM
Average Price of feed	\$121	\$139	\$142	\$/tonne DM
Margin /tonne feed	\$420	\$364	\$356	\$/tonne DM
BMCC	130	84	77	