

Macalister Demonstration Farm, Dairy Australia, Extension Project

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Macalister Demonstration Farm Update 334 (Week ending Feb 1, 2013)

The Macalister Demonstration Farm is milking 284 cows grazing 71 hectares, a stocking rate of 4.0 cows per hectare. The daily allocation is one 30th of the grazing area and the actual grazing rest time is 27 days.

Compared to the previous week, milk production per cow is down from 1.62 to 1.61 kg milk solids (MS) per cow per day. Litres per cow per day are down from 21.1 to 20.9. Milk fat test has risen from 4.39% to 4.40% (fat yield is down from 0.93 to 0.92 kg per cow per day). Milk protein test is up from 3.29% to 3.32% (protein yield is down from 0.70 to 0.69 kg per cow per day). This time last year, milk production was 25.0 litres, 1.77 kg MS, 0.92 kg fat, and 0.86 kg protein per cow per day.

The daily pasture consumption from the grazing area is the same at 44 kg dry matter at (DM) per hectare per day. The pasture consumption per cow is the same at 10.9 kg DM per cow per day. This time last year, pasture consumption was 37 kg DM per hectare per day, and 9.1 kg DM per cow per day.

5.0 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 \$5.35 per hectare per day. Based on those cash inputs only, the consumed pasture price is estimated to be \$122 per tonne of dry matter.

Supplementary feed includes crushed wheat, and a pellet containing 25% protein, minerals, Rumensin, and Eskalin, totalling 5.3 kg DM, at an average price of \$443 per DM tonne.

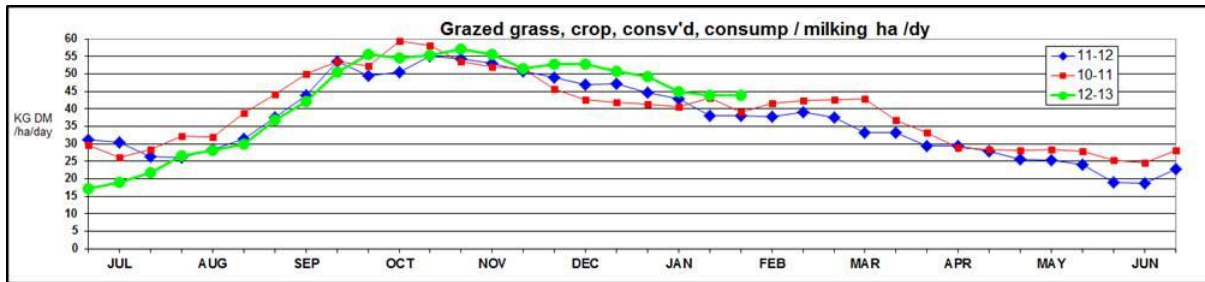
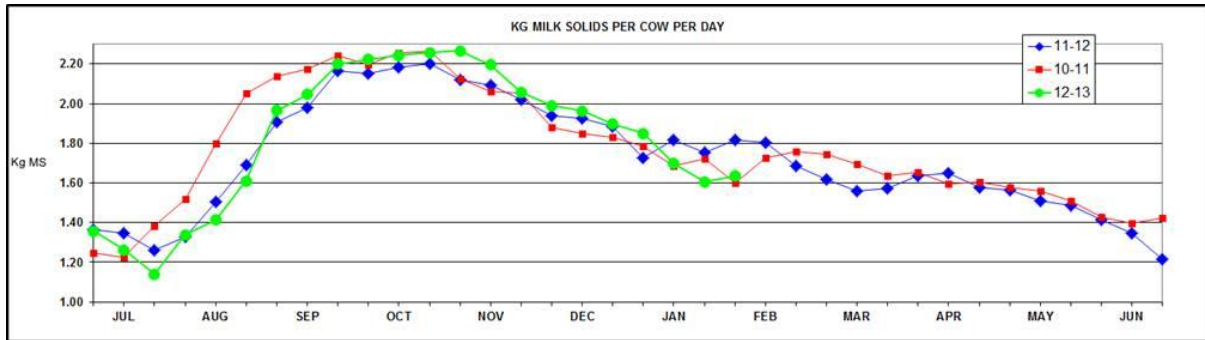
The Bulk Milk Cell Count for the week was 134,000, up from 133,000. This time last year the BMCC was 117,000.

The milk price (less compulsory levies) the MDF anticipates receiving for the week's milk is \$4.49 per kg milk solids, or 34.7 cents per litre. This time last year it was \$5.16 and 36.6.

Milk income per cow per day is up from \$7.24 to \$7.25, made up of \$2.70 for the fat (down from \$2.71), \$5.09 for the protein (up from \$5.09), and minus \$0.55 for the litres. This time last year milk income per cow per day was \$9.15.

Feed cost per cow per day (including pasture and supplements) is up from \$3.68 to \$3.70 per cow per day, leaving a Margin over All Feed (MOAF) per cow of \$3.54, down from \$3.57. This time last year the feed margin per cow was \$5.34. The margin over all feed per hectare is \$14.18 (last year \$21.72). The whole farm feed margin is \$1,007, down from \$1,024 per day. This time last year the whole farm feed margin was \$1,542 per day.

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WEEKLY FEEDING PERFORMANCE	Last Year	Last week	This week	Units
Week to date:	03-Feb	25-Jan	01-Feb	
Milker graze area	71	71	71	ha
Milker nos	289	287	284	head
Stocking rate	4.1	4.0	4.0	cows/ha
Grazing allocation 1/	30	30	30	th of graze area
Average graze rest time	30	30	27	days
mm irrigation/hectare/day	4.0	5.0	5.0	mm water/ha/day
Element Nitrogen	1.2	0.8	0.8	kg element/ha/day
Element Phosphorus	0.00	0.05	0.05	kg element/ha/day
Element Potassium	0.05	0.19	0.19	kg element/ha/day
Renovation	\$0.19	\$0.19	\$0.19	\$/ha/day
Topping	\$0.30	\$0.00	\$0.00	\$/ha/day
Estm'd pasture consmp'n (incl cons'vd forage)	37	44	44	kg DM/ha/dy
Pasture consum'd per cow	9.1	10.9	10.9	kg DM/cow/dy
Daily spend / milking ha	\$4.76	\$5.35	\$5.35	\$/ha/day
Estm'd pasture price	\$129	\$122	\$122	\$/T DM
Conc (incl additives)supp fed/cow	7.6	5.3	5.3	kg DM/cow/dy
Hay/silage supp fed/cow	0.0	0.0	0.0	kg DM/cow/dy
PKE supp fed/cow	0.5	0.0	0.0	kg DM/cow/dy
Estim'd supp waste	3%	3%	3%	%
Conc (incl additives)supp avg price	\$329	\$441	\$443	\$/T DM
Hay/silage supp avg price	\$0	\$0	\$0	\$/T DM
PKE supp price	\$289	\$0	\$0	\$/T DM
Total feed intake/cow	16.9	16.1	16.1	kg DM/cow/dy
Estm'd body cond't'n change	0.10	0.07	0.10	kg LWT/cow/dy
Litres/cow	25.0	21.1	20.9	l/cow/day
Fat test	3.67%	4.39%	4.40%	%
Protein test	3.42%	3.29%	3.32%	%
Fat per cow	0.917	0.928	0.919	kg/cow/dy
Protein per cow	0.855	0.696	0.693	kg/cow/dy
MS per cow	1.77	1.62	1.61	kg/cow/dy
Anticipated final milk price (less levies)	\$5.16	\$4.46	\$4.49	\$/kg MS
Anticipated final milk price (/litre)	\$0.366	\$0.343	\$0.347	\$ per litre

WEEKLY FEEDING PERFORMANCE	Last Year	Last week	This week	Units
Fat return per cow	\$2.94	\$2.71	\$2.70	\$/cow/dy
Protein return per cow	\$6.86	\$5.08	\$5.09	\$/cow/dy
Volume charge per cow	\$0.65	\$0.55	\$0.55	\$/cow/dy
Milk income/cow	\$9.15	\$7.24	\$7.25	\$/cow/dy
All feed cost/cow	\$3.81	\$3.68	\$3.70	\$/cow/dy
Margin over all Feed/cow	\$5.34	\$3.57	\$3.54	\$/cow/dy
MOAF /ha /day	\$21.72	\$14.42	\$14.18	\$/ha/day
Farm MOAF per DAY	\$1,542	\$1,024	\$1,007	\$/day
MOAF per month	\$47,043	\$31,228	\$30,709	\$/month
Energy density of diet	12.1	11.9	11.9	MJ ME/kg DM
Crude protein % of diet	18.3%	19.9%	19.9%	% CP
NDF Fibre level of diet	30.0%	32.5%	32.3%	% NDF
FCE kg MS per tonne DM food	103	100	99	
Tonne feed /day	5.0	4.7	4.6	tonne DM /day
Milk Return /tonne feed	\$532	\$446	\$446	\$/tonne DM
Average Price of feed	\$222	\$226	\$228	\$/tonne DM
Margin /tonne feed	\$310	\$220	\$218	\$/tonne DM
BMCC	117	133	134	