

Macalister Demonstration Farm, Dairy Australia, Extension Project

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Macalister Demonstration Farm Update 302 (Week ending Jun 1, 2012)

The Macalister Demonstration Farm is milking 252 cows (2 less than last week) grazing 73 hectares, a stocking rate of 3.5 cows per hectare. Last year at this time, there were 261 milkers, and the stocking rate was 3.6 cows per hectare. The daily allocation for the recent week was one 52nd of the grazing area, and the actual grazing rest time was 40 days.

Compared to last week, milk production per cow is down from 1.50 to 1.48 kg milk solids (MS) per cow per day. Litres per cow per day are the same at 18.4. Milk fat test has fallen from 4.18% to 4.00% (fat yield is down from 0.77 to 0.74 kg per cow per day). Milk protein test has risen from 3.99% to 4.05% (protein yield is up from 0.73 to 0.74 kg per cow per day). This time last year, milk production was 17.8 litres, 1.50 kg MS, 0.81 kg fat, and 0.69 kg protein per cow per day. It is estimated that the cows are gaining 0.35 kg live weight per cow per day.

The daily pasture consumption from the grazing area is down from 25 to 24 kg dry matter (DM) per hectare per day. The pasture consumption per cow is down from 7.0 to 6.9 kg DM per cow per day. This time last year, pasture consumption was 27 kg DM per hectare per day, and 7.5 kg DM per cow per day.

No irrigation water, 1.0 kg of nitrogen element, 0.05 kg phosphorus element, 0.15 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 \$2.09 per hectare per day. Based on those cash inputs only, the consumed pasture price is estimated to be \$87 per tonne of dry matter, down from \$88 last week.

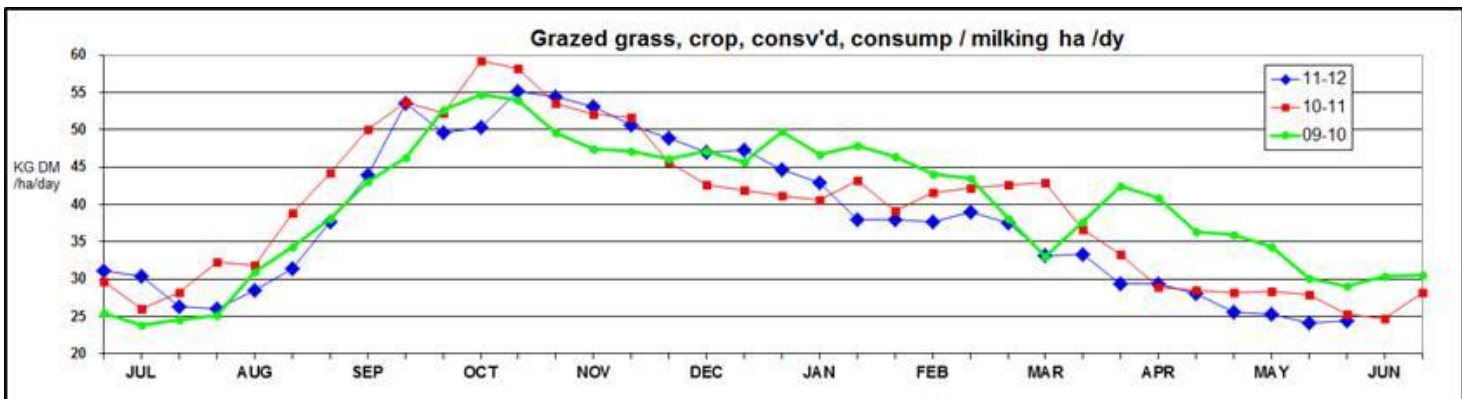
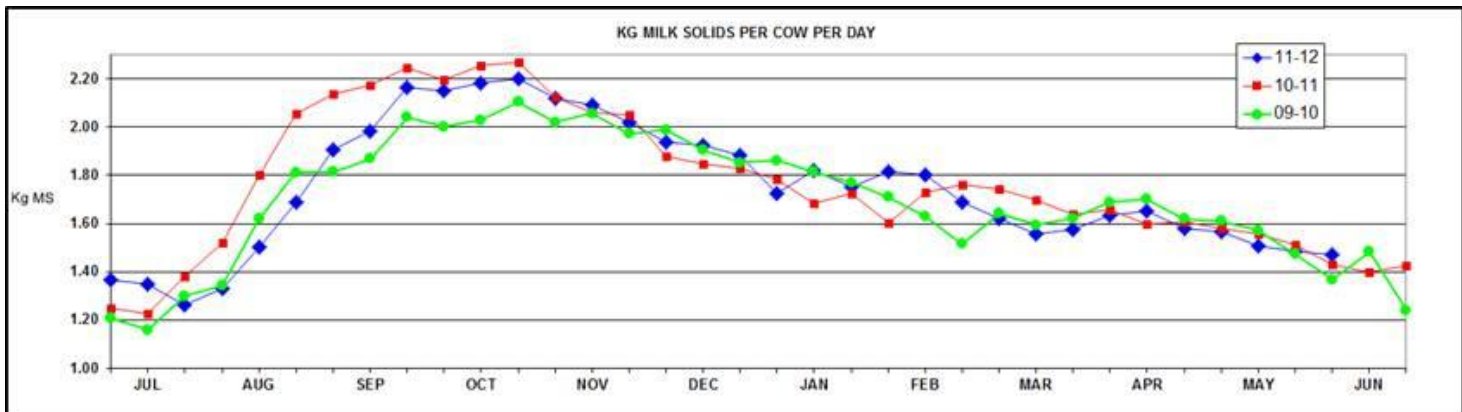
Supplementary feed includes crushed wheat, and a pellet containing 25% protein, minerals, Rumensin, and Tylan, totalling 7.1 kg DM per cow per day, at an average price of \$339 per DM tonne, and 1.8 kg DM of PKE at \$266 per DM tonne.

The Bulk Milk Cell Count for the week is down from 176,000 to 150,000. 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 \$6.72 per kg milk solids, or 54.1 cents per litre. Milk income per cow per day is up from \$9.87 to \$9.93, made up of \$2.95 for the fat, \$7.46 for the protein, and minus 0.48 for the litres. This time last year milk income per cow per day was \$10.04.

Feed cost per cow per day (including pasture and supplements) is the same at \$3.50 per cow per day, leaving a Margin over All Feed (MOAF) per cow of \$6.43, up from \$6.37. The margin over all feed per hectare is \$22.27. The whole farm feed margin is \$1,626, up from \$1,625 per day. This time last year the whole farm feed margin was \$1,723 per day.

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WEEKLY FEEDING PERFORMANCE	Last Year	Last week	This week	Units
Week to date:	03-Jun	25-May	01-Jun	
Milker graze area	73	73	73	ha
Milker nos	261	255	253	head
Stocking rate	3.6	3.5	3.5	cows/ha
Grazing allocation 1/	50	47	52	th of graze area
Average graze rest time	41	38	40	days
mm irrigation/hectare/day	0.0	0.0	0.0	mm water/ha/day
Element Nitrogen	1.1	1.0	1.0	kg element/ha/day
Element Phosphorus	0.00	0.04	0.05	kg element/ha/day
Element Potassium	0.07	0.15	0.15	kg element/ha/day
Renovation	\$0.19	\$0.19	\$0.19	\$/ha/day
Topping	\$0.00	\$0.10	\$0.00	\$/ha/day
Estm'd pasture consmp'n (incl cons'vd forage)	27	25	24	kg DM/ha/dy
Pasture consum'd per cow	7.5	7.0	6.9	kg DM/cow/dy
Daily spend / milking ha	\$1.64	\$2.15	\$2.09	\$/ha/day
Estm'd pasture price	\$61	\$88	\$87	\$/T DM
Conc (incl additives)supp fed/cow	7.2	7.1	7.1	kg DM/cow/dy
Hay/silage supp fed/cow	2.5	0.0	0.0	kg DM/cow/dy
PKE supp fed/cow	0.0	1.8	1.8	kg DM/cow/dy
Estim'd supp waste	5%	3%	3%	%
Conc (incl additives)supp avg price	\$349	\$338	\$339	\$/T DM
Hay/silage supp avg price	\$186	\$0	\$0	\$/T DM
PKE supp price	\$0	\$263	\$266	\$/T DM
Total feed intake/cow	16.7	15.6	15.6	kg DM/cow/dy
Estm'd body cond't'n change	0.30	0.35	0.35	kg LW/cow/dy
Litres/cow	17.8	18.4	18.4	l/cow/day
Fat test	4.56%	4.18%	4.00%	%
Protein test	3.90%	3.99%	4.05%	%
Fat per cow	0.810	0.768	0.735	kg/cow/dy
Protein per cow	0.693	0.732	0.743	kg/cow/dy
MS per cow	1.50	1.50	1.48	kg/cow/dy
Anticipated final milk price (less levies)	\$6.68	\$6.58	\$6.72	\$/kg MS
Anticipated final milk price (/litre)	\$0.565	\$0.538	\$0.541	\$ per litre
Fat return per cow	\$3.34	\$3.06	\$2.95	\$/cow/dy
Protein return per cow	\$7.16	\$7.29	\$7.46	\$/cow/dy
Volume charge per cow	\$0.46	\$0.48	\$0.48	\$/cow/dy
Milk income/cow	\$10.04	\$9.87	\$9.93	\$/cow/dy
All feed cost/cow	\$3.43	\$3.50	\$3.50	\$/cow/dy
Margin over all Feed/cow	\$6.60	\$6.37	\$6.43	\$/cow/dy
MOAF /ha /day	\$23.61	\$22.26	\$22.27	\$/ha/day
Farm MOAF per DAY	\$1,723	\$1,625	\$1,626	\$/day
MOAF per month	\$52,560	\$49,573	\$49,594	\$/month
Energy density of diet	11.7	12.4	12.4	MJ ME/kg DM
Crude protein % of diet	18.8%	18.3%	18.3%	% CP
NDF Fibre level of diet	31.2%	30.8%	30.8%	% NDF
FCE kg MS per tonne DM food	88	94	93	
Tonne feed /day	4.5	4.1	4.0	tonne DM /day
Milk Return /tonne feed	\$585	\$619	\$626	\$/tonne DM
Average Price of feed	\$200	\$219	\$221	\$/tonne DM
Margin /tonne feed	\$385	\$400	\$405	\$/tonne DM
BMCC	117	176	150	