

Macalister Demonstration Farm, Dairy Australia, Extension Project

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Macalister Demonstration Farm Update 325 (Week ending Nov 23, 2012)

The Macalister Demonstration Farm is milking 293 cows grazing 71 hectares, a stocking rate of 4.1 cows per hectare. The daily allocation is one 37th of the grazing area and the actual grazing rest time is 33 days.

Compared to the previous week, milk production per cow is down from 2.23 to 2.15 kg milk solids (MS) per cow per day. Litres per cow per day are down from 30.4 to 29.7. Milk fat test has fallen from 4.14% to 4.09% (fat yield is down from 1.26 to 1.22 kg per cow per day). Milk protein test has fallen from 3.17% to 3.15% (protein yield has fallen from 0.97 to 0.94 kg per cow per day). This time last year, milk production was 28.0 litres, 2.06 kg MS, 1.13 kg fat, and 0.93 kg protein per cow per day.

The daily pasture consumption from the grazing area is down from 57 to 54 kg dry matter (DM) per hectare per day. The pasture consumption per cow is down from 13.7 to 13.1 kg DM per cow per day. This time last year, pasture consumption was 52 kg DM per hectare per day, and 12.1 kg DM per cow per day.

3.0 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 \$3.95 per hectare per day. Based on those cash inputs only, the consumed pasture price is estimated to be \$73 per tonne of dry matter, up from \$70 last week.

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 \$432 per DM tonne. A small amount of cereal hay is being fed.

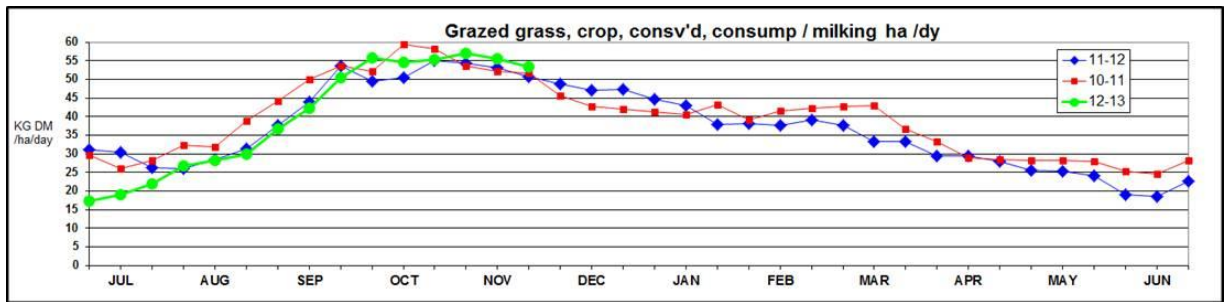
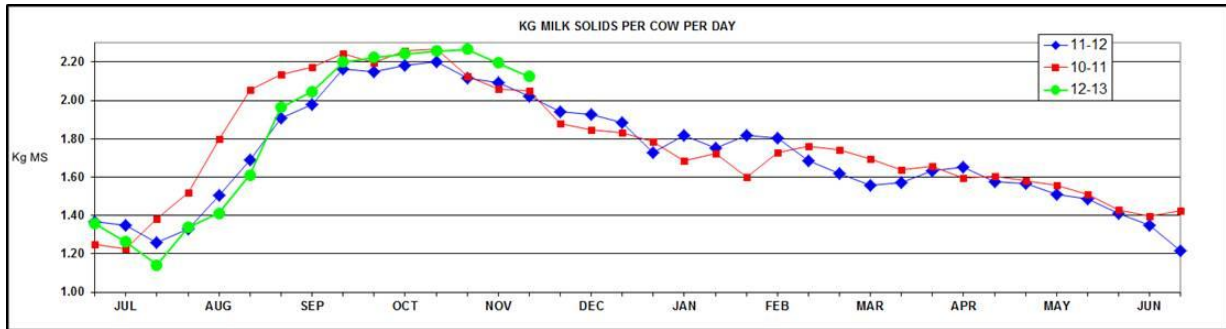
The Bulk Milk Cell Count for the week was 114,000, down from 135,000. This time last year the BMCC was 82,000.

The milk price (less compulsory levies) the MDF anticipates receiving for the week's milk is \$4.17 per kg milk solids, or 30.2 cents per litre.

Milk income per cow per day is down from \$9.29 to \$8.98, made up of \$3.33 for the fat, \$6.43 for the protein, and minus \$0.78 for the litres. This time last year milk income per cow per day was \$9.55.

Feed cost per cow per day (including pasture and supplements) is up from \$3.27 to \$3.47 per cow per day, leaving a Margin over All Feed (MOAF) per cow of \$5.51, down from \$6.02. The margin over all feed per hectare is \$22.75. The whole farm feed margin is \$1,615, down from \$1,765 per day. This time last year the whole farm feed margin was \$2,115 per day.

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WEEKLY FEEDING PERFORMANCE	Last Year	Last week	This week	Units
Week to date:	25-Nov	16-Nov	23-Nov	
Milker graze area	70	71	71	ha
Milker nos	299	293	293	head
Stocking rate	4.3	4.1	4.1	cows/ha
Grazing allocation 1/	30	35	37	th of graze area
Average graze rest time	30	29	33	days
mm irrigation/hectare/day	0.0	3.0	3.0	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	0.02	0.19	0.19	kg element/ha/day
Renovation	\$0.19	\$0.19	\$0.19	\$/ha/day
Topping	\$0.10	\$0.00	\$0.00	\$/ha/day
Estm'd pasture consmp'n (incl cons'vd forage)	52	57	54	kg DM/ha/dy
Pasture consum'd per cow	12.1	13.7	13.1	kg DM/cow/dy
Daily spend / milking ha	\$2.12	\$3.95	\$3.95	\$/ha/day
Estm'd pasture price	\$41	\$70	\$73	\$/T DM
Conc (incl additives)supp fed/cow	6.1	5.3	5.3	kg DM/cow/dy
Hay/silage supp fed/cow	0.0	0.0	0.6	kg DM/cow/dy
PKE supp fed/cow	0.0	0.0	0.0	kg DM/cow/dy
Estim'd supp waste	3%	3%	3%	%
Conc (incl additives)supp avg price	\$326	\$432	\$441	\$/T DM
Hay/silage supp avg price	\$0	\$0	\$282	\$/T DM
PKE supp price	\$0	\$0	\$0	\$/T DM
Total feed intake/cow	18.0	18.9	18.8	kg DM/cow/dy
Estm'd body cond't'n change	-0.10	-0.10	0.00	kg LWT/cow/dy
Litres/cow	28.0	30.4	29.7	l/cow/day
Fat test	4.04%	4.14%	4.09%	%
Protein test	3.30%	3.17%	3.15%	%
Fat per cow	1.132	1.262	1.215	kg/cow/dy
Protein per cow	0.925	0.966	0.937	kg/cow/dy
MS per cow	2.06	2.23	2.15	kg/cow/dy
Anticipated final milk price (less levies)	\$4.64	\$4.17	\$4.17	\$/kg MS

WEEKLY FEEDING PERFORMANCE	Last Year	Last week	This week	Units
Anticipated final milk price (/litre)	\$0.341	\$0.305	\$0.302	\$ per litre
Fat return per cow	\$3.38	\$3.46	\$3.33	\$/cow/dy
Protein return per cow	\$6.90	\$6.62	\$6.43	\$/cow/dy
Volume charge per cow	\$0.73	\$0.80	\$0.78	\$/cow/dy
Milk income/cow	\$9.55	\$9.29	\$8.98	\$/cow/dy
All feed cost/cow	\$2.48	\$3.27	\$3.47	\$/cow/dy
Margin over all Feed/cow	\$7.07	\$6.02	\$5.51	\$/cow/dy
MOAF /ha /day	\$30.22	\$24.86	\$22.75	\$/ha/day
Farm MOAF per DAY	\$2,115	\$1,765	\$1,615	\$/day
MOAF per month	\$64,511	\$53,832	\$49,257	\$/month
Energy density of diet	12.1	12.3	12.2	MJ ME/kg DM
Crude protein % of diet	20.6%	21.5%	21.2%	% CP
NDF Fibre level of diet	31.8%	32.9%	33.6%	% NDF
FCE kg MS per tonne DM food	113	117	113	
Tonne feed /day	5.4	5.6	5.6	tonne DM /day
Milk Return /tonne feed	\$524	\$487	\$472	\$/tonne DM
Average Price of feed	\$136	\$172	\$182	\$/tonne DM
Margin /tonne feed	\$388	\$316	\$290	\$/tonne DM
BMCC	82	135	114	