

Macalister Demonstration Farm, Dairy Australia, Extension Project

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Macalister Demonstration Farm Update 326 (Week ending Nov 30, 2012)

The Macalister Demonstration Farm is milking 291 cows grazing 71 hectares, a stocking rate of 4.1 cows per hectare. The daily allocation is one 32nd of the grazing area and the actual grazing rest time is 32 days.

Compared to the previous week, milk production per cow is down from 2.15 to 2.03 kg milk solids (MS) per cow per day. Litres per cow per day are down from 29.7 to 28.3. Milk fat test has risen from 4.09% to 4.10% (fat yield is down from 1.22 to 1.16 kg per cow per day). Milk protein test has fallen from 3.16% to 3.07% (protein yield has fallen from 0.94 to 0.87 kg per cow per day). This time last year, milk production was 27.2 litres, 2.00 kg MS, 1.10 kg fat, and 0.89 kg protein per cow per day.

The daily pasture consumption from the grazing area is down from 55 to 51 kg dry matter (DM) per hectare per day. The pasture consumption per cow is down from 13.1 to 12.4 kg DM per cow per day. This time last year, pasture consumption was 50 kg DM per hectare per day, and 11.6 kg DM per cow per day.

3.5 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 \$4.30 per hectare per day. Based on those cash inputs only, the consumed pasture price is estimated to be \$85 per tonne of dry matter, up from \$74 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 \$441 per DM tonne. A small amount of cereal hay is being fed.

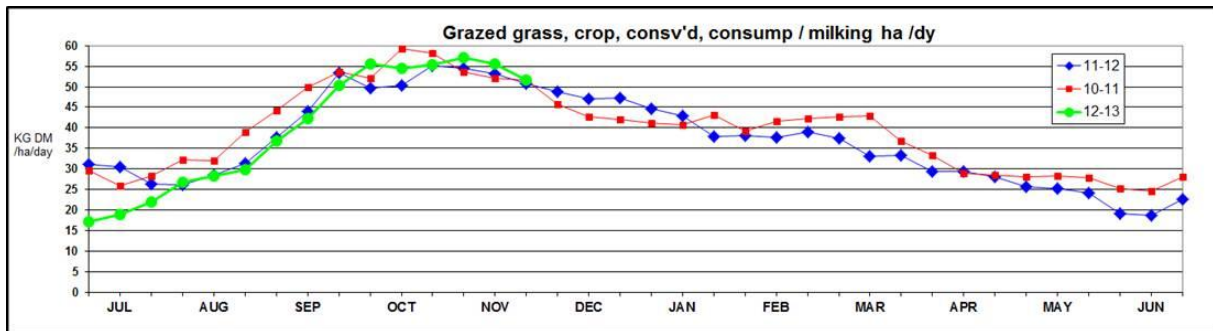
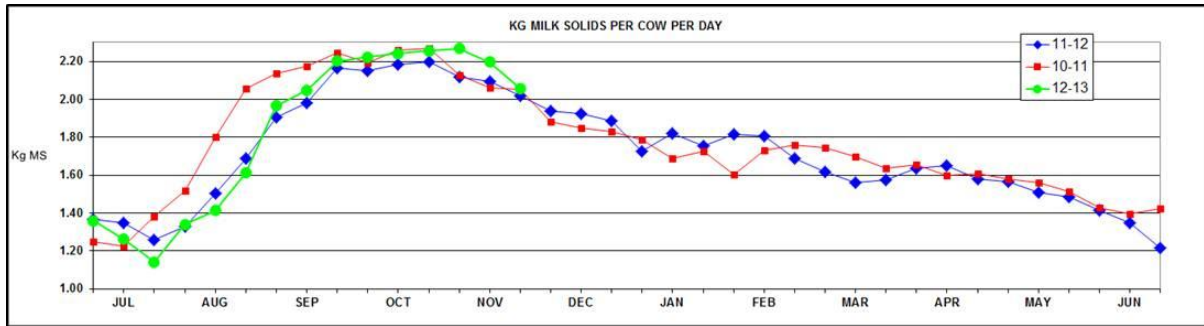
The Bulk Milk Cell Count for the week was 83,000, down from 117,000. This time last year the BMCC was 78,000.

The milk price (less compulsory levies) the MDF anticipates receiving for the week's milk is \$4.14 per kg milk solids, or 29.7 cents per litre.

Milk income per cow per day is down from \$8.99 to \$8.39, made up of \$3.18 for the fat, \$5.95 for the protein, and minus \$0.74 for the litres. This time last year milk income per cow per day was \$9.24.

Feed cost per cow per day (including pasture and supplements) is up from \$3.48 to \$3.56 per cow per day, leaving a Margin over All Feed (MOAF) per cow of \$4.83, down from \$5.51. The margin over all feed per hectare is \$19.83. The whole farm feed margin is \$1,408, down from \$1,614 per day. This time last year the whole farm feed margin was \$1,981 per day.

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WEEKLY FEEDING PERFORMANCE	Last Year	Last week	This week	Units
Week to date:	02-Dec	23-Nov	30-Nov	
Milker graze area	70	71	71	ha
Milker nos	299	293	291	head
Stocking rate	4.3	4.1	4.1	cows/ha
Grazing allocation 1/	30	37	32	th of graze area
Average graze rest time	30	33	32	days
mm irrigation/hectare/day	0.0	3.1	3.5	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)	50	54	51	kg DM/ha/dy
Pasture consum'd per cow	11.6	13.1	12.4	kg DM/cow/dy
Daily spend / milking ha	\$2.12	\$4.00	\$4.30	\$/ha/day
Estm'd pasture price	\$43	\$74	\$85	\$/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	0.6	0.6	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	\$327	\$441	\$441	\$/T DM
Hay/silage supp avg price	\$0	\$282	\$282	\$/T DM
PKE supp price	\$289	\$0	\$0	\$/T DM
Total feed intake/cow	17.9	18.8	18.1	kg DM/cow/dy
Estm'd body cond't'n change	0.00	0.00	0.00	kg LWT/cow/dy
Litres/cow	27.2	29.7	28.3	l/cow/day
Fat test	4.06%	4.09%	4.10%	%
Protein test	3.28%	3.16%	3.07%	%
Fat per cow	1.104	1.216	1.159	kg/cow/dy
Protein per cow	0.891	0.938	0.868	kg/cow/dy
MS per cow	2.00	2.15	2.03	kg/cow/dy

WEEKLY FEEDING PERFORMANCE	Last Year	Last week	This week	Units
Anticipated final milk price (less levies)	\$4.63	\$4.17	\$4.14	\$/kg MS
Anticipated final milk price (/litre)	\$0.340	\$0.303	\$0.297	\$ per litre
Fat return per cow	\$3.30	\$3.34	\$3.18	\$/cow/dy
Protein return per cow	\$6.65	\$6.43	\$5.95	\$/cow/dy
Volume charge per cow	\$0.71	\$0.78	\$0.74	\$/cow/dy
Milk income/cow	\$9.24	\$8.99	\$8.39	\$/cow/dy
All feed cost/cow	\$2.61	\$3.48	\$3.56	\$/cow/dy
Margin over all Feed/cow	\$6.63	\$5.51	\$4.83	\$/cow/dy
MOAF /ha /day	\$28.31	\$22.73	\$19.83	\$/ha/day
Farm MOAF per DAY	\$1,981	\$1,614	\$1,408	\$/day
MOAF per month	\$60,433	\$49,228	\$42,931	\$/month
Energy density of diet	12.1	12.2	12.2	MJ ME/kg DM
Crude protein % of diet	20.4%	21.2%	21.1%	% CP
NDF Fibre level of diet	32.3%	33.6%	33.3%	% NDF
FCE kg MS per tonne DM food	110	113	111	
Tonne feed /day	5.4	5.6	5.3	tonne DM /day
Milk Return /tonne feed	\$509	\$473	\$459	\$/tonne DM
Average Price of feed	\$144	\$183	\$195	\$/tonne DM
Margin /tonne feed	\$365	\$290	\$264	\$/tonne DM
BMCC	78	117	83	