

Macalister Demonstration Farm, Dairy Australia, Extension Project

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Macalister Demonstration Farm Update 328 (Week ending Dec 14, 2012)

The Macalister Demonstration Farm is milking 290 cows grazing 71 hectares, a stocking rate of 4.1 cows per hectare. The daily allocation is one 31st of the grazing area and the actual grazing rest time is 31 days.

Compared to the previous week, milk production per cow is up from 1.97 to 2.02 kg milk solids (MS) per cow per day. Litres per cow per day are up from 27.2 to 27.3. Milk fat test has risen from 4.16% to 4.28% (fat yield is up from 1.13 to 1.17 kg per cow per day). Milk protein test has risen from 3.08% to 3.10% (protein yield is up from 0.84 to 0.85 kg per cow per day). This time last year, milk production was 27.0 litres, 1.95 kg MS, 1.05 kg fat, and 0.90 kg protein per cow per day.

The daily pasture consumption from the grazing area is up from 52 to 54 kg dry matter (DM) per hectare per day. The pasture consumption per cow is up from 12.7 to 13.2 kg DM per cow per day. This time last year, pasture consumption was 49 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 \$4.50 per hectare per day. Based on those cash inputs only, the consumed pasture price is estimated to be \$83 per tonne of dry matter, same as last week.

Supplementary feed includes crushed wheat, and a pellet containing 25% protein, minerals, Rumensin, and Eskalin, totalling 4.5 kg DM, at an average price of \$453 per DM tonne, and 0.9 PKE at \$311 per DM tonne.

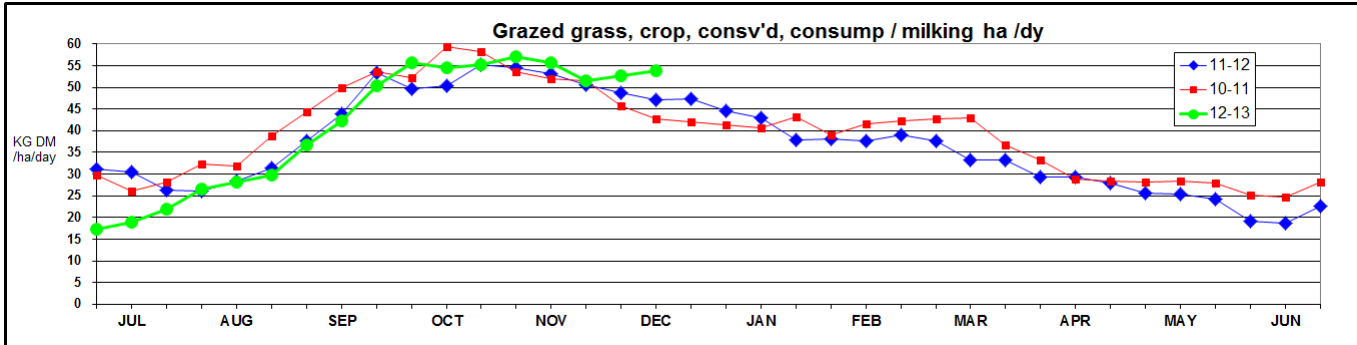
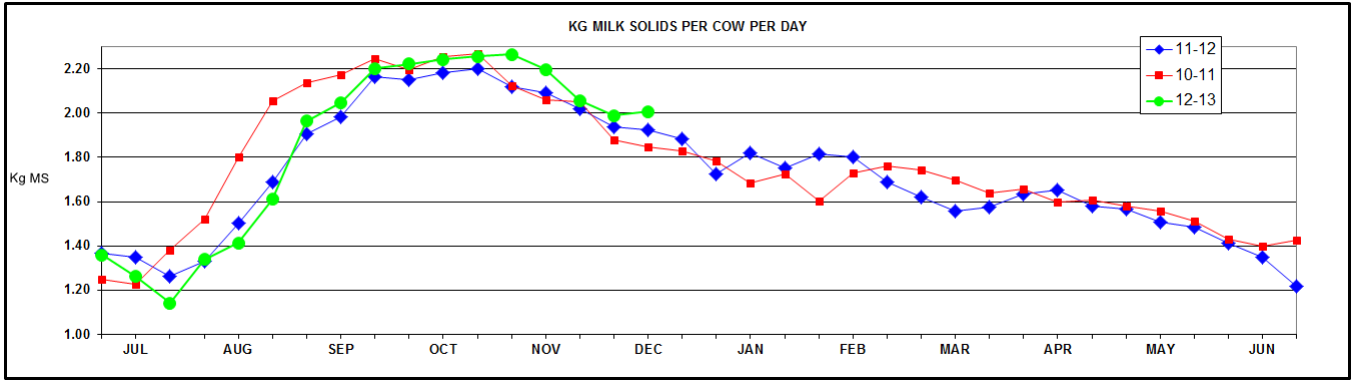
The Bulk Milk Cell Count for the week was 110,000, down from 132,000. This time last year the BMCC was 81,000.

The milk price (less compulsory levies) the MDF anticipates receiving for the week's milk is \$4.12 per kg milk solids, or 30.4 cents per litre.

Milk income per cow per day is up from \$8.15 to \$8.31, made up of \$3.21 for the fat, \$5.81 for the protein, and minus \$0.71 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 \$3.37 to \$3.40 per cow per day, leaving a Margin over All Feed (MOAF) per cow of \$4.91, up from \$4.78. The margin over all feed per hectare is \$20.04. The whole farm feed margin is \$1,423, up from \$1,389 per day. This time last year the whole farm feed margin was \$1,881 per day.

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WEEKLY FEEDING PERFORMANCE	Last Year	Last week	This week	Units
Week to date:	16-Dec	07-Dec	14-Dec	
Milker graze area	70	71	71	ha
Milker nos	295	291	290	head
Stocking rate	4.2	4.1	4.1	cows/ha
Grazing allocation 1/	30	32	31	th of graze area
Average graze rest time	30	32	31	days
mm irrigation/hectare/day	0.0	3.5	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	\$0.20	\$/ha/day
Estm'd pasture consmp'n (incl cons'vd forage)	49	52	54	kg DM/ha/dy
Pasture consum'd per cow	11.6	12.7	13.2	kg DM/cow/dy
Daily spend / milking ha	\$2.12	\$4.30	\$4.50	\$/ha/day
Estm'd pasture price	\$43	\$83	\$83	\$/T DM
Conc (incl additives)supp fed/cow	6.5	4.8	4.5	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	0.5	0.9	kg DM/cow/dy
Estim'd supp waste	3%	3%	3%	%
Conc (incl additives)supp avg price	\$324	\$448	\$453	\$/T DM
Hay/silage supp avg price	\$0	\$0	\$0	\$/T DM
PKE supp price	\$289	\$311	\$311	\$/T DM
Total feed intake/cow	18.4	17.9	18.4	kg DM/cow/dy
Estm'd body cond'n change	0.10	0.00	0.00	kg LWT/cow/dy
Litres/cow	27.0	27.2	27.3	l/cow/day
Fat test	3.90%	4.16%	4.28%	%
Protein test	3.32%	3.08%	3.10%	%

WEEKLY FEEDING PERFORMANCE	Last Year	Last week	This week	Units
Fat per cow	1.054	1.133	1.169	kg/cow/dy
Protein per cow	0.899	0.839	0.848	kg/cow/dy
MS per cow	1.95	1.97	2.02	kg/cow/dy
Anticipated final milk price (less levies)	\$4.68	\$4.13	\$4.12	\$/kg MS
Anticipated final milk price (/litre)	\$0.338	\$0.300	\$0.304	\$ per litre
Fat return per cow	\$3.15	\$3.11	\$3.21	\$/cow/dy
Protein return per cow	\$6.71	\$5.75	\$5.81	\$/cow/dy
Volume charge per cow	\$0.71	\$0.71	\$0.71	\$/cow/dy
Milk income/cow	\$9.15	\$8.15	\$8.31	\$/cow/dy
All feed cost/cow	\$2.77	\$3.37	\$3.40	\$/cow/dy
Margin over all Feed/cow	\$6.38	\$4.78	\$4.91	\$/cow/dy
MOAF /ha /day	\$26.87	\$19.57	\$20.04	\$/ha/day
Farm MOAF per DAY	\$1,881	\$1,389	\$1,423	\$/day
MOAF per month	\$57,366	\$42,379	\$43,390	\$/month
Energy density of diet	11.9	12.1	12.0	MJ ME/kg DM
Crude protein % of diet	19.0%	20.8%	20.4%	% CP
NDF Fibre level of diet	33.3%	34.7%	36.5%	% NDF
FCE kg MS per tonne DM food	105	109	108	
Tonne feed /day	5.5	5.2	5.4	tonne DM /day
Milk Return /tonne feed	\$490	\$452	\$447	\$/tonne DM
Average Price of feed	\$149	\$187	\$183	\$/tonne DM
Margin /tonne feed	\$342	\$265	\$264	\$/tonne DM
BMCC	81	132	110	