

Macalister Demonstration Farm, Dairy Australia, Extension Project

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Macalister Demonstration Farm Update 330 (Week ending Jan 4, 2013)

The Macalister Demonstration Farm is milking 289 cows grazing 71 hectares, a stocking rate of 4.1 cows per hectare. The daily allocation is one 30th of the grazing area and the actual grazing rest time is 30 days.

Compared to the previous week, milk production per cow is down from 1.91 to 1.88 kg milk solids (MS) per cow per day. Litres per cow per day are down from 26.2 to 25.6. Milk fat test has fallen from 4.19% to 4.04% (fat yield is down from 1.10 to 1.04 kg per cow per day). Milk protein test is up from 3.11% to 3.28% (protein yield is up from 0.82 to 0.84 kg per cow per day). This time last year, milk production was 23.8 litres, 1.71 kg MS, 0.94 kg fat, and 0.78 kg protein per cow per day.

The daily pasture consumption from the grazing area is down from 51 to 50 kg dry matter (DM) per hectare per day. The pasture consumption per cow is down from 12.6 to 12.2 kg DM per cow per day. This time last year, pasture consumption was 50 kg DM per hectare per day, and 11.9 kg DM per cow per day.

3.4 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 \$4.45 per hectare per day. Based on those cash inputs only, the consumed pasture price is estimated to be \$89 per tonne of dry matter, down from \$94.

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.

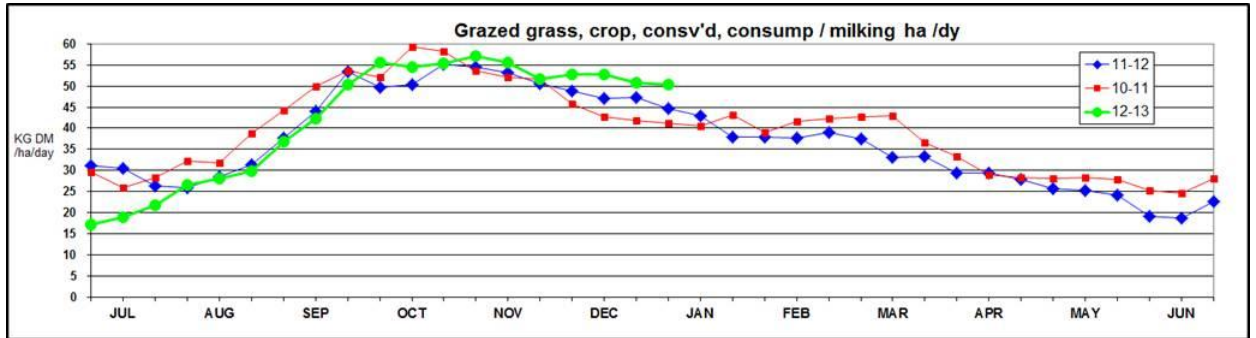
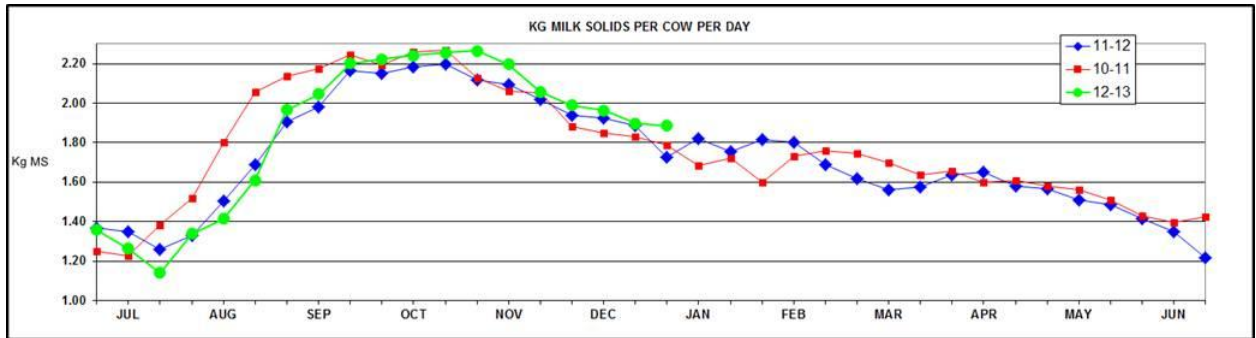
The Bulk Milk Cell Count for the week was 166,000, up from 142,000. This time last year the BMCC was 133,000.

The milk price (less compulsory levies) the MDF anticipates receiving for the week's milk is \$4.40 per kg milk solids, or 32.2 cents per litre, up from 30.2 cents.

Milk income per cow per day is up from \$7.91 to \$8.26, made up of \$2.95 for the fat (down from \$3.01), \$5.98 for the protein (up from \$5.58), and minus \$0.67 for the litres. This time last year milk income per cow per day was \$8.41.

Feed cost per cow per day (including pasture and supplements) is down from \$3.49 to \$3.45 per cow per day, leaving a Margin over All Feed (MOAF) per cow of \$4.81, up from \$4.43. This time last year the feed margin per cow was \$5.77. The margin over all feed per hectare is \$19.61. The whole farm feed margin is \$1,392, up from \$1,284 per day. This time last year the whole farm feed margin was \$1,678 per day.

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WEEKLY FEEDING PERFORMANCE	Last Year	Last week	This week	Units
Week to date:	06-Jan	28-Dec	04-Jan	
Milker graze area	70	71	71	ha
Milker nos	291	290	289	head
Stocking rate	4.2	4.1	4.1	cows/ha
Grazing allocation 1/	30	31	30	th of graze area
Average graze rest time	30	31	30	days
mm irrigation/hectare/day	2.7	4.0	3.4	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	\$0.20	\$0.20	\$/ha/day
Estm'd pasture consmp'n (incl cons'vd forage)	50	51	50	kg DM/ha/dy
Pasture consum'd per cow	11.9	12.6	12.2	kg DM/cow/dy
Daily spend / milking ha	\$3.75	\$4.85	\$4.45	\$/ha/day
Estm'd pasture price	\$80	\$94	\$89	\$/T DM
Conc (incl additives)supp fed/cow	4.5	4.5	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	0.6	0.9	0.0	kg DM/cow/dy
Estim'd supp waste	3%	3%	3%	%
Conc (incl additives)supp avg price	\$403	\$453	\$441	\$/T DM
Hay/silage supp avg price	\$0	\$0	\$0	\$/T DM
PKE supp price	\$289	\$311	\$0	\$/T DM
Total feed intake/cow	16.9	17.8	17.4	kg DM/cow/dy
Estm'd body cond't'n change	0.10	0.00	0.00	kg LWT/cow/dy
Litres/cow	23.8	26.2	25.6	l/cow/day
Fat test	3.93%	4.19%	4.04%	%
Protein test	3.26%	3.11%	3.28%	%

WEEKLY FEEDING PERFORMANCE	Last Year	Last week	This week	Units
Fat per cow	0.938	1.098	1.036	kg/cow/dy
Protein per cow	0.776	0.815	0.840	kg/cow/dy
MS per cow	1.71	1.91	1.88	kg/cow/dy
Anticipated final milk price (less levies)	\$4.91	\$4.14	\$4.40	\$/kg MS
Anticipated final milk price (/litre)	\$0.353	\$0.302	\$0.322	\$ per litre
Fat return per cow	\$2.94	\$3.01	\$2.95	\$/cow/dy
Protein return per cow	\$6.09	\$5.58	\$5.98	\$/cow/dy
Volume charge per cow	\$0.62	\$0.68	\$0.67	\$/cow/dy
Milk income/cow	\$8.41	\$7.91	\$8.26	\$/cow/dy
All feed cost/cow	\$2.64	\$3.49	\$3.45	\$/cow/dy
Margin over all Feed/cow	\$5.77	\$4.43	\$4.81	\$/cow/dy
MOAF /ha /day	\$23.97	\$18.08	\$19.61	\$/ha/day
Farm MOAF per DAY	\$1,678	\$1,284	\$1,392	\$/day
MOAF per month	\$51,183	\$39,153	\$42,455	\$/month
Energy density of diet	11.9	12.0	12.0	MJ ME/kg DM
Crude protein % of diet	19.1%	20.3%	20.0%	% CP
NDF Fibre level of diet	35.8%	36.3%	33.7%	% NDF
FCE kg MS per tonne DM food	100	107	107	
Tonne feed /day	5.0	5.2	5.1	tonne DM /day
Milk Return /tonne feed	\$492	\$441	\$470	\$/tonne DM
Average Price of feed	\$155	\$194	\$196	\$/tonne DM
Margin /tonne feed	\$337	\$247	\$273	\$/tonne DM
BMCC	133	142	166	