

Macalister Demonstration Farm, Dairy Australia, Extension Project

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Macalister Demonstration Farm Update 306 (Week ending Jun 29, 2012)

The Macalister Demonstration Farm has started drying off cows, and is milking 201 cows (down from 235) grazing 67 hectares, a stocking rate of 3.0 cows per hectare. Last year at this time, there were 178 milkers, and the stocking rate was 3.5 cows per hectare. The daily allocation for the recent week was one 55th of the grazing area, and the actual grazing rest time was 46 days.

Compared to the previous week, milk production per cow is down from 1.32 to 1.20 kg milk solids (MS) per cow per day. Litres per cow per day are down from 16.9 to 14.9. Milk fat test has risen from 3.67% to 3.92% (fat yield is down from 0.62 to 0.60 kg per cow per day). Milk protein test has risen from 4.09% to 4.16% (protein yield has fallen from 0.69 to 0.64 kg per cow per day). This time last year, milk production was 16.1 litres, 1.36 kg MS, 0.72 kg fat, and 0.65 kg protein per cow per day. It is estimated that the cows gained 0.35 kg liveweight during the week.

The daily pasture consumption from the grazing area is up from 20 to 24 kg dry matter (DM) per hectare per day. The pasture consumption per cow is up from 6.1 to 8.0 kg DM per cow per day. This time last year, pasture consumption was 29 kg DM per hectare per day, and 8.2 kg DM per cow per day.

No irrigation water, 0.8 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 \$1.79 per hectare per day. Based on those cash inputs only, the consumed pasture price is estimated to be \$76 per tonne of dry matter, down from \$107 last week.

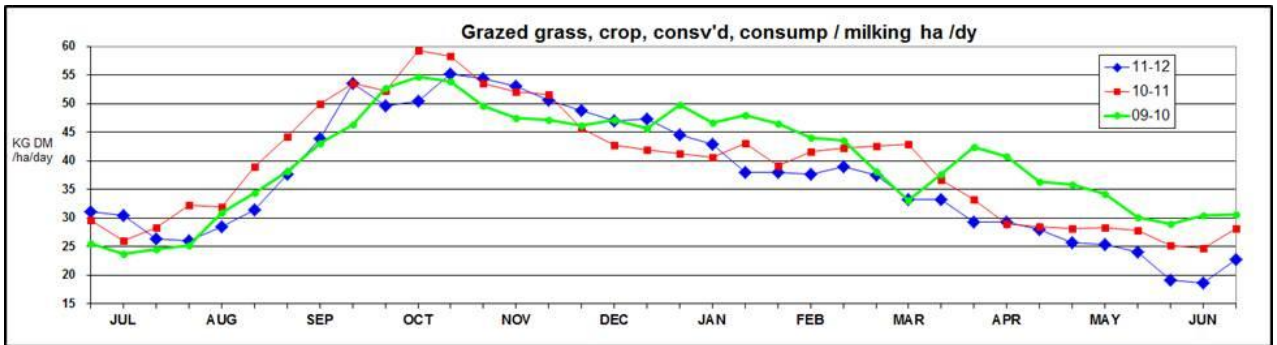
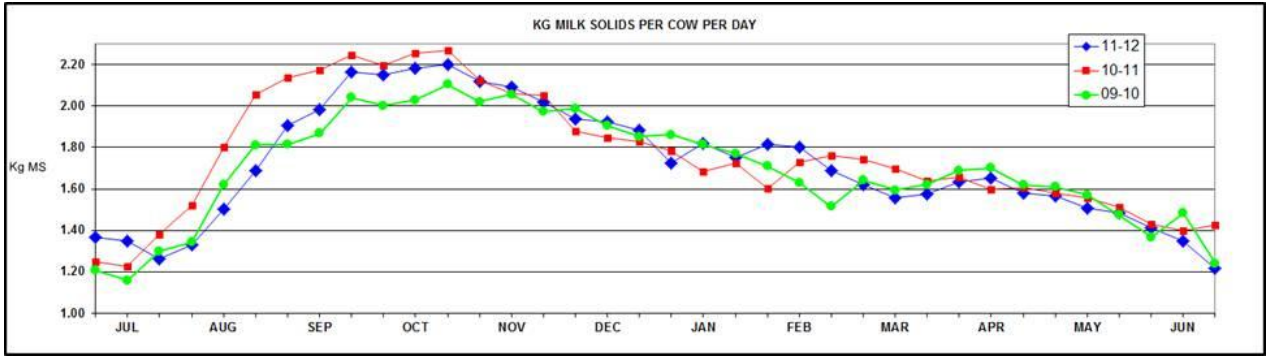
Supplementary feed includes crushed wheat, and a pellet containing 25% protein, minerals, Rumensin, and Tylan, totalling 5.1 kg DM per cow per day, at an average price of \$333 per DM tonne, and 1.3 kg DM of PKE at \$268 per DM tonne.

The Bulk Milk Cell Count for the week is up from 138,000 to 213,000. This time last year the BMCC was 132,000. The BMCC average for the ten day period ending 19/06/2012 was 163,000 giving the farm a factory ranking 43rd out of 331 farms.

The milk price (less compulsory levies) the MDF anticipates receiving for the week's milk is \$6.92 per kg milk solids, or 55.8 cents per litre. Milk income per cow per day is down from \$9.18 to \$8.53, made up of \$2.45 for the fat, \$6.48 for the protein, and minus 0.40 for the litres. This time last year milk income per cow per day was \$9.18.

Feed cost per cow per day (including pasture and supplements) is down from \$3.55 to \$2.64 per cow per day, leaving a Margin over All Feed (MOAF) per cow of \$5.89, up from \$5.63. The margin over all feed per hectare is \$17.48. The whole farm feed margin is \$1,152, down from \$1,323 per day. This time last year the whole farm feed margin was \$1,077 per day.

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WEEKLY FEEDING PERFORMANCE	Last Year	Last week	This week	Units
Week to date:	01-Jul	22-Jun	29-Jun	
Milker graze area	51	73	67	ha
Milker nos	178	235	201	head
Stocking rate	3.5	3.2	3.0	cows/ha
Grazing allocation 1/	50	53	55	th of graze area
Average graze rest time	46	43	46	days
mm irrigation/hectare/day	0.0	0.0	0.0	mm water/ha/day
Element Nitrogen	1.0	1.0	0.8	kg element/ha/day
Element Phosphorus	0.00	0.05	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	\$0.00	\$0.00	\$/ha/day
Estm'd pasture consmp'n (incl cons'vd forage)	29	20	24	kg DM/ha/dy
Pasture consum'd per cow	8.2	6.1	8.0	kg DM/cow/dy
Daily spend / milking ha	\$1.52	\$2.09	\$1.79	\$/ha/day
Estm'd pasture price	\$54	\$107	\$76	\$/T DM
Conc (incl additives)supp fed/cow	7.2	7.1	5.1	kg DM/cow/dy
Hay/silage supp fed/cow	1.1	0.0	0.0	kg DM/cow/dy
PKE supp fed/cow	0.0	1.8	1.3	kg DM/cow/dy
Estim'd supp waste	4%	3%	3%	%
Conc (incl additives)supp avg price	\$339	\$340	\$333	\$/T DM
Hay/silage supp avg price	\$186	\$0	\$0	\$/T DM
PKE supp price	\$0	\$268	\$268	\$/T DM
Total feed intake/cow	16.2	14.7	14.2	kg DM/cow/dy
Estm'd body cond't'n change	0.40	0.35	0.35	kg LWT/cow/dy
Litres/cow	16.1	16.9	14.9	l/cow/day
Fat test	4.46%	3.67%	3.92%	%
Protein test	4.00%	4.09%	4.16%	%
Fat per cow	0.720	0.622	0.599	kg/cow/dy
Protein per cow	0.647	0.694	0.635	kg/cow/dy
MS per cow	1.36	1.32	1.20	kg/cow/dy
Anticipated final milk price (less levies)	\$6.72	\$6.98	\$6.92	\$/kg MS
Anticipated final milk price (/litre)	\$0.568	\$0.542	\$0.558	\$ per litre
Fat return per cow	\$2.96	\$2.54	\$2.45	\$/cow/dy
Protein return per cow	\$6.64	\$7.08	\$6.48	\$/cow/dy
Volume charge per cow	\$0.42	\$0.44	\$0.40	\$/cow/dy
Milk income/cow	\$9.18	\$9.18	\$8.53	\$/cow/dy
All feed cost/cow	\$3.09	\$3.55	\$2.64	\$/cow/dy
Margin over all Feed/cow	\$6.10	\$5.63	\$5.89	\$/cow/dy
MOAF /ha /day	\$21.32	\$18.12	\$17.48	\$/ha/day
Farm MOAF per DAY	\$1,077	\$1,323	\$1,152	\$/day
MOAF per month	\$32,847	\$40,341	\$35,142	\$/month
Energy density of diet	12.0	12.4	12.4	MJ ME/kg DM
Crude protein % of diet	18.6%	18.0%	19.1%	% CP
NDF Fibre level of diet	29.3%	29.9%	31.9%	% NDF
FCE kg MS per tonne DM food	83	88	85	
Tonne feed /day	2.9	3.5	2.9	tonne DM /day
Milk Return /tonne feed	\$555	\$612	\$590	\$/tonne DM
Average Price of feed	\$187	\$237	\$183	\$/tonne DM
Margin /tonne feed	\$368	\$375	\$407	\$/tonne DM
BMCC	132	138	213	