

Macalister Demonstration Farm, Dairy Australia, Extension Project

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Macalister Demonstration Farm Update 252 (Week ending June 10, 2011)

The Macalister Demonstration Farm is milking 261 cows, grazing 73 hectares, a stocking rate of 3.6 cows per hectare. Last year at this time, the stocking rate was 3.1 cows per hectare. The daily allocation for the week is one 50th of the grazing area, and the grazing rest time is 42 days.

Compared to last week, milk production is down from 1.50 to 1.40 kg milk solids (MS) per cow per day. Litres per cow per day are down from 17.8 to 15.8. Milk fat test has risen from 4.56% to 4.89% (fat yield is down from 0.81 to 0.77 kg per cow per day). The protein test has risen from 3.90% to 3.95% (protein yield is down from 0.69 to 0.63 kg per cow per day). This time last year, milk production was 17.1 litres, 1.40 kg MS, 0.72 kg fat, and 0.68 kg protein per cow per day.

The daily pasture consumption from the grazing area is down from 27 to 25 dry matter (DM) per hectare per day. The pasture consumption per cow is down from 7.5 to 6.9 kg DM per cow per day. This time last year, pasture consumption was 28 kg DM per hectare per day, and 9.1 kg DM per cow per day.

1.1 kg nitrogen element, 0.07 kg potassium, no phosphorus, no irrigation, no topping, 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 is the same at \$1.64 per hectare per day. Based on those inputs only, pasture price is estimated to be \$67 per tonne of dry matter, up from \$61.

The soil phosphorus levels on the farm are high. From 11 recent tests, the Olsen P maximum was 96, the minimum was 23 (on the recently laser graded area), and average 45 ppm. The nil-potash squares, showing differing grass growth, have stimulated the establishment of a couple of phosphorus test strips

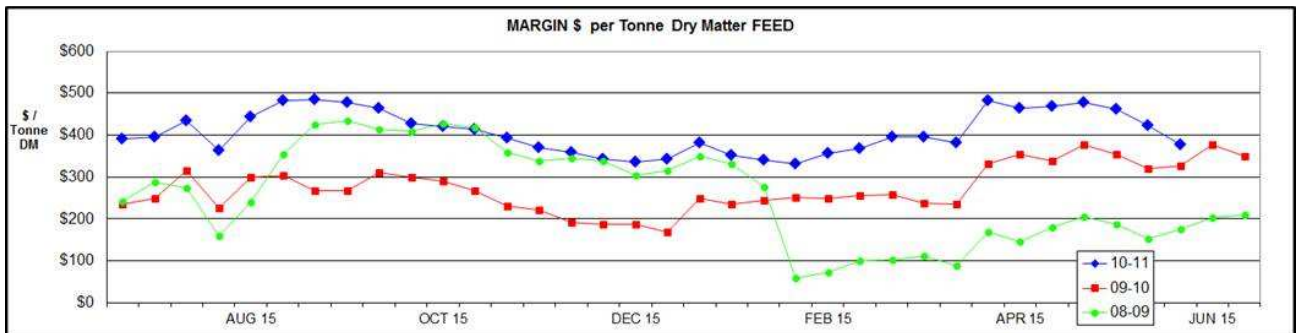
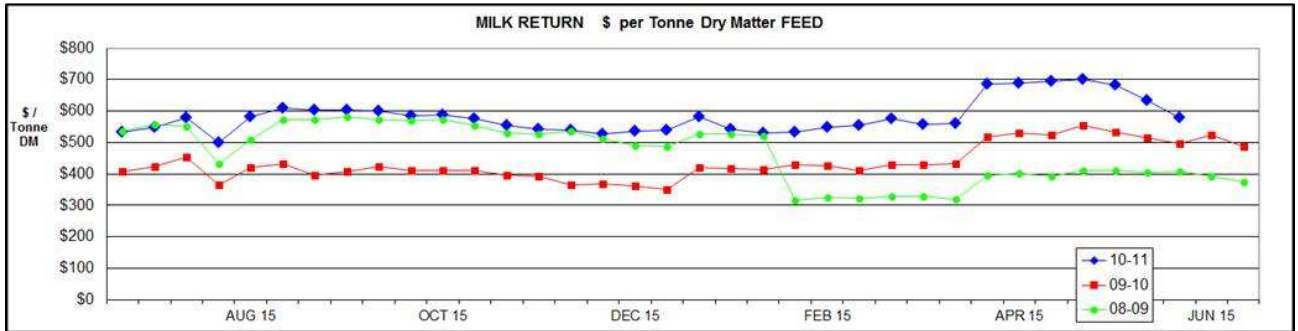
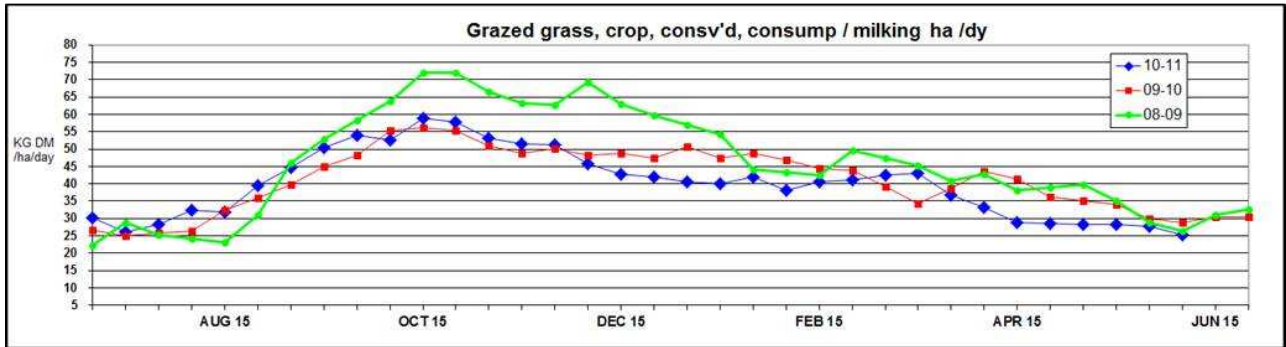
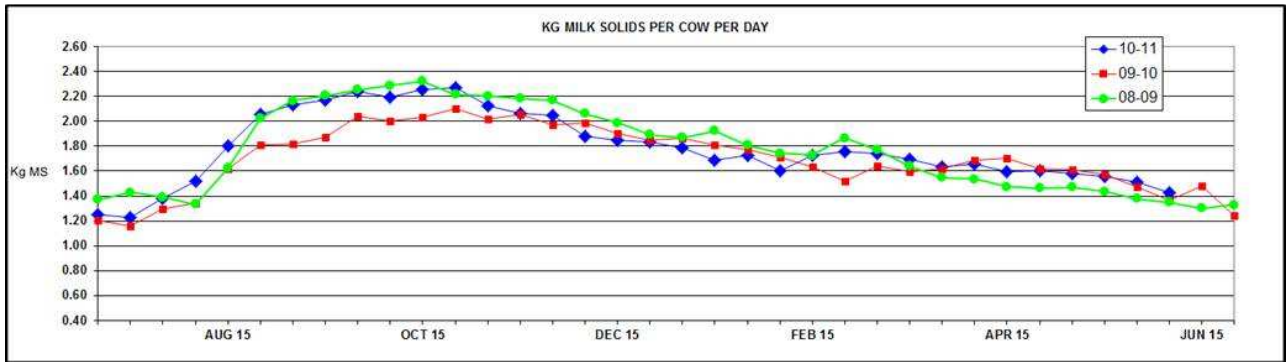
Supplementary concentrates include crushed wheat, and a wheat, PKE, copra, Rumensin, Tylan and mineral mix, totalling 7.2 kg DM per cow per day, at an average price of \$337 per DM tonne. 2.5 kg DM per cow per day of hay, at \$186 per tonne DM, is being fed also.

The BMCC has risen from 117 to 139. This time last year it was 127.

The milk price (less compulsory levies) that the MDF anticipates receiving for the week is \$6.75 per kg milk solids, or 59.7 cents per litre. Milk income per cow per day is \$9.43, down from \$10.11, made up of \$3.26 for the fat, \$6.59 for the protein, and minus \$0.41 for the litres. This time last year milk income per cow per day was \$8.50.

Feed cost per cow per day (including pasture and supplements) is down from \$3.43 to \$3.34 per cow per day, leaving a Margin Over All Feed (MOAF) per cow of \$6.09, down from \$6.68 per day. The margin over all feed per hectare is \$21.77. The whole farm feed margin is \$1,589, down from \$1,743 per day. This time last year the whole farm feed margin was \$1,145 per day.

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WEEKLY FEEDING PERFORMANCE	Last Year	Last week	This week	Units
Week to date:	11-Jun	03-Jun	10-Jun	
Milker graze area	65	73	73	ha
Milker nos	200	261	261	head
Average days in milk		282	288	days
Stocking rate	3.1	3.6	3.6	cows/ha
Grazing allocation 1/	50	50	50	th of graze area
Average graze rest time	44	41	42	days
Element N/hectare/day	1.2	1.1	1.1	kg element/ha/day
mm irrigation/hectare/day	0.0	0.0	0.0	mm water/ha/day
Estm'd pasture consmp'n (incl cons'vd forage)	28	27	25	kg DM/ha/dy
Pasture consum'd per cow	9.1	7.5	6.9	kg DM/cow/dy
Daily spend / milking ha	\$2.10	\$1.64	\$1.64	\$/ha/day
Estm'd pasture price	\$76	\$61	\$67	\$/T DM
Conc (incl additives)supp fed/cow	6.0	7.2	7.2	kg DM/cow/dy
Hay/silage supp fed/cow	0.0	2.5	2.5	kg DM/cow/dy
PKE supp fed/cow	1.8	0.0	0.0	kg DM/cow/dy
Estim'd supp waste	5%	5%	5%	%
Conc (incl additives)supp avg price	\$282	\$349	\$337	\$/T DM
Hay/silage supp avg price	\$0	\$186	\$186	\$/T DM
PKE supp price	\$228	\$0	\$0	\$/T DM
Total feed intake/cow	16.5	16.7	16.1	kg DM/cow/dy
Estm'd body cond't'n change	0.50	0.30	0.30	kg LWT/cow/dy
Litres/cow	17.1	17.8	15.8	l/cow/day
Fat test	4.19%	4.56%	4.89%	%
Protein test	3.98%	3.90%	3.95%	%
Fat per cow	0.717	0.810	0.773	kg/cow/dy
Protein per cow	0.681	0.693	0.625	kg/cow/dy
MS per cow	1.40	1.50	1.40	kg/cow/dy
Anticipated final milk price (less levies)	\$6.08	\$6.73	\$6.75	\$/kg MS
Anticipated final milk price (/litre)	\$0.497	\$0.569	\$0.597	\$ per litre
Fat return per cow	\$2.65	\$3.37	\$3.26	\$/cow/dy
Protein return per cow	\$6.30	\$7.21	\$6.59	\$/cow/dy
Volume charge per cow	\$0.45	\$0.46	\$0.41	\$/cow/dy
Milk income/cow	\$8.50	\$10.11	\$9.43	\$/cow/dy
All feed cost/cow	\$2.78	\$3.43	\$3.34	\$/cow/dy
Margin over all Feed/cow	\$5.73	\$6.68	\$6.09	\$/cow/dy
MOAF /ha /day	\$17.62	\$23.88	\$21.77	\$/ha/day
Farm MOAF per DAY	\$1,145	\$1,743	\$1,589	\$/day
MOAF per month	\$34,932	\$53,167	\$48,461	\$/month
Energy density of diet	12.1	11.7	11.7	MJ ME/kg DM
Crude protein % of diet	19.8%	18.8%	18.0%	% CP
NDF Fibre level of diet	33.9%	31.2%	30.9%	% NDF
FCE kg MS per tonne DM food	83	88	84	
Tonne feed /day	3.4	4.5	4.3	tonne DM /day
Milk Return /tonne feed	\$506	\$589	\$570	\$/tonne DM
Average Price of feed	\$165	\$200	\$202	\$/tonne DM
Margin /tonne feed	\$340	\$389	\$367	\$/tonne DM
BMCC	127	117	139	