

## **Macalister Demonstration Farm, Dairy Australia, Extension Project**

**Projects on the farm are funded by Dairy Australia, the Gardiner Foundation, Sustainability Victoria, DPI VIC, Department of Agriculture Food and Fisheries, with support provided by GippsDairy.**

### **Macalister Demonstration Farm Update 317 (Week ending Sep 28, 2012)**

The Macalister Demonstration Farm is now milking 237 cows grazing 64 hectares, a stocking rate of 3.7 cows per hectare. The daily allocation is one 44th of the grazing area and the actual grazing rest time 48 days.

Compared to the previous week, milk production per cow is up from 2.03 to 2.18 kg milk solids (MS) per cow per day. Litres per cow per day are up from 27.9 to 30.2. Milk fat test has risen from 3.73% to 3.87% (fat yield is up from 1.05 to 1.17 kg per cow per day). Milk protein test has fallen from 3.52% to 3.36% (protein yield has risen from 0.99 to 1.05 kg per cow per day). This time last year, milk production was 28.3 litres, 2.18 kg MS, 1.21 kg fat, and 0.97 kg protein per cow per day.

The daily pasture consumption from the grazing area is up from 43 to 50 kg dry matter (DM) per hectare per day. The pasture consumption per cow is up from 12.2 to 13.5 kg DM per cow per day. This time last year, pasture consumption was 55 kg DM per hectare per day, and 13.6 kg DM per cow per day.

1.0 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 \$2.55 per hectare per day. Based on those cash inputs only, the consumed pasture price is estimated to be \$52 per tonne of dry matter, up from \$51 last week.

Supplementary feed includes crushed wheat, and a pellet containing 25% protein, minerals, Rumensin, and Eskalin, totalling 4.1 kg DM, average price of \$408 per DM tonne, and 0.7 kg DM PKE per cow per day, average price of \$311 per DM tonne.

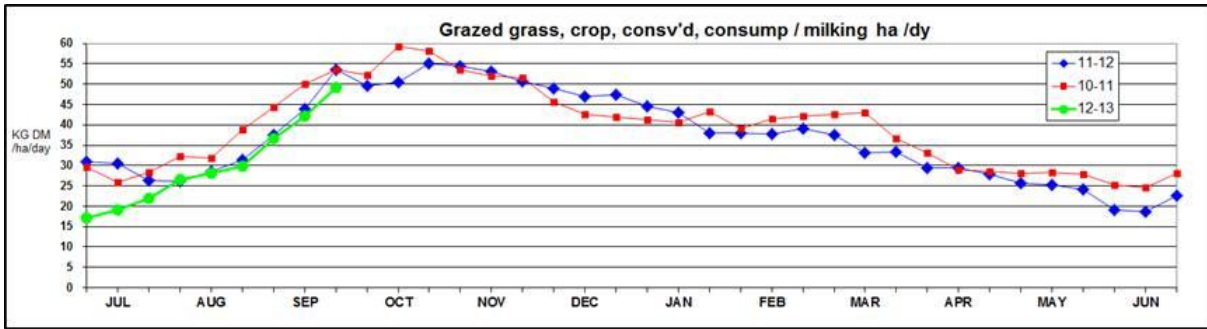
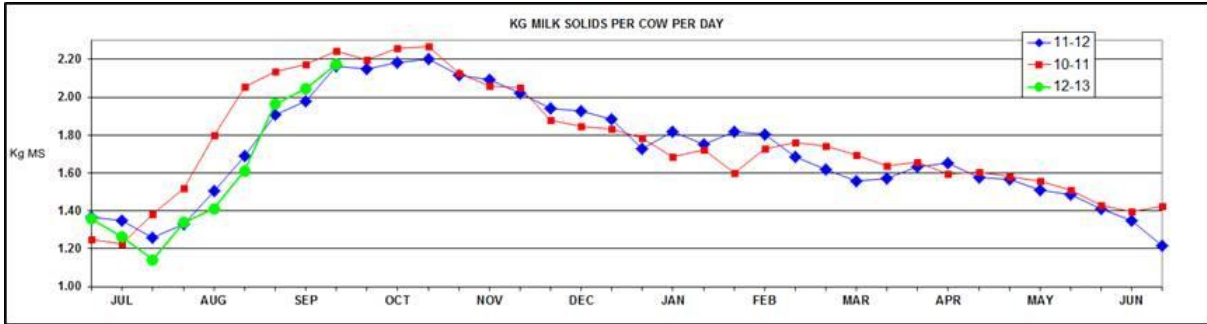
The Bulk Milk Cell Count for the week was 77,000. This time last year the BMCC was 130,000. The BMCC average for period ending 20/09/2012 was 76,000, giving the farm a factory ranking of 9th out of 384 farms.

The milk price (less compulsory levies) the MDF anticipates receiving for the week's milk is \$4.16 per kg milk solids, or 30.0 cents per litre.

Milk income per cow per day is up from \$8.63 to \$9.07, made up of \$3.11 for the fat, \$6.75 for the protein, and minus \$0.79 for the litres. This time last year milk income per cow per day was \$10.11.

Feed cost per cow per day (including pasture and supplements) is up from \$2.45 to \$2.57 per cow per day, leaving a Margin over All Feed (MOAF) per cow of \$6.50, up from \$6.17. The margin over all feed per hectare is \$23.87. The whole farm feed margin is \$1,538, up from \$1,240 per day. This time last year the whole farm feed margin was \$2,031 per day.

Frank Tyndall Sale 0409 940 782 [ftyndall@ozemail.com.au](mailto:ftyndall@ozemail.com.au)



WEEKLY FEEDING PERFORMANCE	Last Year	Last week	This week	Units
Week to date:	30-Sep	21-Sep	28-Sep	
Milker graze area	63	57	64	ha
Milker nos	255	203	237	head
Stocking rate	4.0	3.6	3.7	cows/ha
Grazing allocation 1/	37	45	43	th of graze area
Average graze rest time	35	49	48	days
mm irrigation/hectare/day	1.5	0.5	1.0	mm water/ha/day
Element Nitrogen	0.9	0.8	0.8	kg element/ha/day
Element Phosphorus	0.00	0.05	0.05	kg element/ha/day
Element Potassium	0.06	0.19	0.19	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)	55	43	50	kg DM/ha/dy
Pasture consum'd per cow	13.6	12.2	13.5	kg DM/cow/dy
Daily spend / milking ha	\$2.52	\$2.20	\$2.55	\$/ha/day
Estm'd pasture price	\$46	\$51	\$52	\$/T DM
Conc (incl additives)supp fed/cow	4.4	4.5	4.1	kg DM/cow/dy
Hay/silage supp fed/cow	0.1	0.0	0.0	kg DM/cow/dy
PKE supp fed/cow	0.3	0.7	0.7	kg DM/cow/dy
Estim'd supp waste	3%	3%	3%	%
Conc (incl additives)supp avg price	\$326	\$369	\$408	\$/T DM
Hay/silage supp avg price	\$216	\$0	\$0	\$/T DM
PKE supp price	\$289	\$289	\$311	\$/T DM
Total feed intake/cow	18.1	17.2	18.1	kg DM/cow/dy
Estm'd body cond't'n change	-0.20	-0.18	-0.20	kg LWT/cow/dy
Litres/cow	28.3	27.9	30.2	l/cow/day
Fat test	4.27%	3.73%	3.87%	%
Protein test	3.43%	3.52%	3.36%	%
Fat per cow	1.210	1.046	1.167	kg/cow/dy

<b>WEEKLY FEEDING PERFORMANCE</b>	<b>Last Year</b>	<b>Last week</b>	<b>This week</b>	<b>Units</b>
Protein per cow	0.970	0.988	1.014	kg/cow/dy
MS per cow	2.18	2.03	2.18	kg/cow/dy
Anticipated final milk price (less levies)	\$4.64	\$4.24	\$4.16	\$/kg MS
Anticipated final milk price (/litre)	\$0.357	\$0.308	\$0.300	\$ per litre
Fat return per cow	\$3.61	\$2.79	\$3.11	\$/cow/dy
Protein return per cow	\$7.24	\$6.57	\$6.75	\$/cow/dy
Volume charge per cow	\$0.74	\$0.73	\$0.79	\$/cow/dy
Milk income/cow	\$10.11	\$8.63	\$9.07	\$/cow/dy
All feed cost/cow	\$2.14	\$2.45	\$2.57	\$/cow/dy
Margin over all Feed/cow	\$7.98	\$6.17	\$6.50	\$/cow/dy
MOAF /ha /day	\$32.03	\$21.97	\$23.87	\$/ha/day
Farm MOAF per DAY	\$2,031	\$1,240	\$1,538	\$/day
MOAF per month	\$61,957	\$37,808	\$46,909	\$/month
Energy density of diet	12.4	12.5	12.5	MJ ME/kg DM
Crude protein % of diet	22.2%	21.2%	22.9%	% CP
NDF Fibre level of diet	33.1%	33.0%	33.8%	% NDF
FCE kg MS per tonne DM food	119	117	119	
Tonne feed /day	4.7	3.5	4.3	tonne DM /day
Milk Return /tonne feed	\$553	\$498	\$497	\$/tonne DM
Average Price of feed	\$117	\$142	\$141	\$/tonne DM
Margin /tonne feed	\$436	\$356	\$356	\$/tonne DM
BMCC	88	77	118	