

## **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 321 (Week ending Oct 26, 2012)**

The Macalister Demonstration Farm is now milking 282 cows grazing 68 hectares, a stocking rate of 4.1 cows per hectare. The daily allocation is one 35th of the grazing area and the actual grazing rest time 35 days.

Compared to the previous week, milk production per cow is down from 2.25 to 2.24 kg milk solids (MS) per cow per day. Litres per cow per day are down from 31.0 to 30.8. Milk fat test has fallen from 4.08% to 4.07% (fat yield is down from 1.26 to 1.25 kg per cow per day). Milk protein test has risen from 3.20% to 3.21% (protein yield is the same at 0.99 kg per cow per day). This time last year, milk production was 29.6 litres, 2.21 kg MS, 1.23 kg fat, and 0.98 kg protein per cow per day.

The daily pasture consumption from the grazing area is the same at 55 kg dry matter (DM) per hectare per day. The pasture consumption per cow is down from 13.4 to 13.3 kg DM per cow per day. This time last year, pasture consumption was 57 kg DM per hectare per day, and 12.9 kg DM per cow per day.

3.0 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 \$3.95 per hectare per day. Based on those cash inputs only, the consumed pasture price is estimated to be \$71 per tonne of dry matter, down from \$73 last week.

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 \$383 per DM tonne.

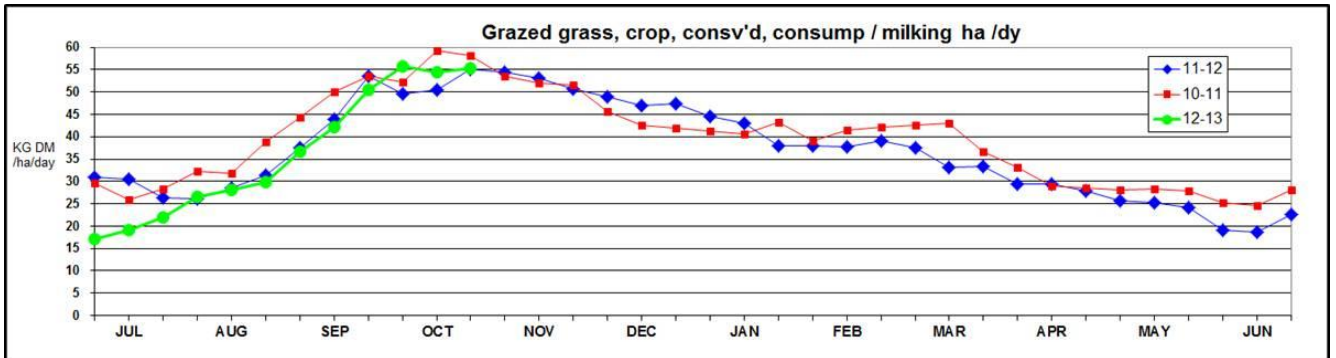
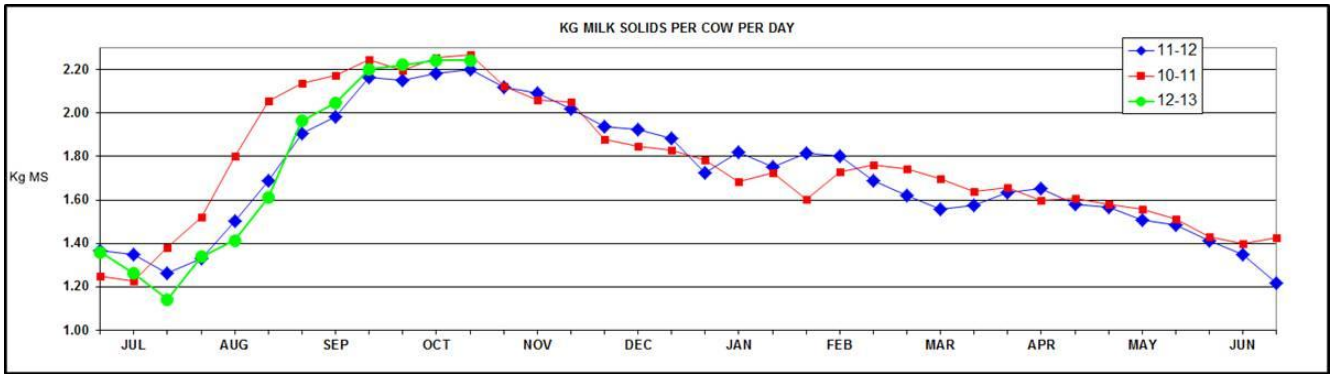
The Bulk Milk Cell Count for the week was 86,000. This time last year the BMCC was 92,000. The BMCC average for period ending 20/10/2012 was 83,000, giving the farm a factory ranking of 10th out of 383 farms.

The milk price (less compulsory levies) the MDF anticipates receiving for the week's milk is \$4.20 per kg milk solids, or 30.6 cents per litre.

Milk income per cow per day is down from \$9.45 to \$9.41, made up of \$3.44 for the fat, \$6.77 for the protein, and minus \$0.80 for the litres. This time last year milk income per cow per day was \$10.24.

Feed cost per cow per day (including pasture and supplements) is down from \$3.02 to \$3.00 per cow per day, leaving a Margin over All Feed (MOAF) per cow of \$6.41, down from \$6.43. The margin over all feed per hectare is \$26.58. The whole farm feed margin is \$1,808, up from \$1,753 per day. This time last year the whole farm feed margin was \$2,377 per day.

Frank Tyndall    Consultant    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:	28-Oct	19-Oct	26-Oct	
Milker graze area	70	68	68	ha
Milker nos	306	272	282	head
Stocking rate	4.4	4.0	4.1	cows/ha
Grazing allocation 1/	32	35	35	th of graze area
Average graze rest time	28	33	35	days
mm irrigation/hectare/day	1.0	3.0	3.0	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	\$0.00	\$0.00	\$0.00	\$/ha/day
Estm'd pasture consmp'n (incl cons'vd forage)	57	55	55	kg DM/ha/dy
Pasture consum'd per cow	12.9	13.4	13.3	kg DM/cow/dy
Daily spend / milking ha	\$2.62	\$3.95	\$3.95	\$/ha/day
Estm'd pasture price	\$46	\$73	\$71	\$/T DM
Conc (incl additives)supp fed/cow	5.4	5.3	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	0.5	0.0	0.0	kg DM/cow/dy
Estim'd supp waste	4%	3%	3%	%
Conc (incl additives)supp avg price	\$326	\$383	\$383	\$/T DM
Hay/silage supp avg price	\$0	\$0	\$0	\$/T DM
PKE supp price	\$289	\$0	\$0	\$/T DM
Total feed intake/cow	18.5	18.6	18.5	kg DM/cow/dy
Estm'd body cond't'n change	-0.30	-0.30	-0.30	kg LWT/cow/dy
Litres/cow	29.6	31.0	30.8	l/cow/day
Fat test	4.17%	4.08%	4.07%	%
Protein test	3.33%	3.20%	3.21%	%
Fat per cow	1.232	1.263	1.253	kg/cow/dy
Protein per cow	0.983	0.992	0.988	kg/cow/dy
MS per cow	2.21	2.25	2.24	kg/cow/dy
Anticipated final milk price (less levies)	\$4.62	\$4.19	\$4.20	\$/kg MS
Anticipated final milk price (/litre)	\$0.347	\$0.305	\$0.306	\$ per litre
Fat return per cow	\$3.68	\$3.46	\$3.44	\$/cow/dy
Protein return per cow	\$7.34	\$6.80	\$6.77	\$/cow/dy
Volume charge per cow	\$0.77	\$0.81	\$0.80	\$/cow/dy
Milk income/cow	\$10.24	\$9.45	\$9.41	\$/cow/dy
All feed cost/cow	\$2.47	\$3.02	\$3.00	\$/cow/dy
Margin over all Feed/cow	\$7.77	\$6.43	\$6.41	\$/cow/dy
MOAF /ha /day	\$33.95	\$25.78	\$26.58	\$/ha/day
Farm MOAF per DAY	\$2,377	\$1,753	\$1,808	\$/day
MOAF per month	\$72,485	\$53,457	\$55,137	\$/month
Energy density of diet	12.1	12.3	12.3	MJ ME/kg DM
Crude protein % of diet	20.3%	22.3%	21.1%	% CP
NDF Fibre level of diet	33.6%	31.3%	32.5%	% NDF
FCE kg MS per tonne DM food	118	120	120	
Tonne feed /day	5.7	5.1	5.3	tonne DM /day
Milk Return /tonne feed	\$546	\$504	\$504	\$/tonne DM
Average Price of feed	\$132	\$161	\$161	\$/tonne DM
Margin /tonne feed	\$414	\$343	\$343	\$/tonne DM
BMCC	92	86	86	