

## **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 333 (Week ending Jan 25, 2013)**

The Macalister Demonstration Farm is milking 287 cows grazing 71 hectares, a stocking rate of 4.0 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 1.70 to 1.62 kg milk solids (MS) per cow per day. Litres per cow per day are down from 22.8 to 21.1. Milk fat test has risen from 4.11% to 4.39% (fat yield is down from 0.94 to 0.93 kg per cow per day). Milk protein test is down from 3.33% to 3.29% (protein yield is down from 0.76 to 0.70 kg per cow per day). This time last year, milk production was 25.1 litres, 1.77 kg MS, 0.93 kg fat, and 0.85 kg protein per cow per day.

The daily pasture consumption from the grazing area is down from 45 to 44 kg dry matter (DM) per hectare per day. The pasture consumption per cow is down from 11.1 to 10.9 kg DM per cow per day. This time last year, pasture consumption was 39 kg DM per hectare per day, and 9.5 kg DM per cow per day.

5.0 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 \$5.35 per hectare per day. Based on those cash inputs only, the consumed pasture price is estimated to be \$122 per tonne of dry matter, up from \$113.

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.

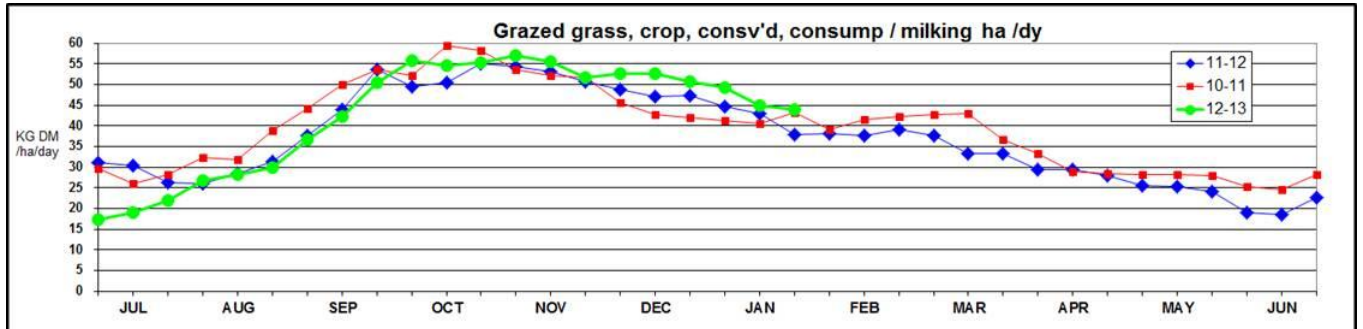
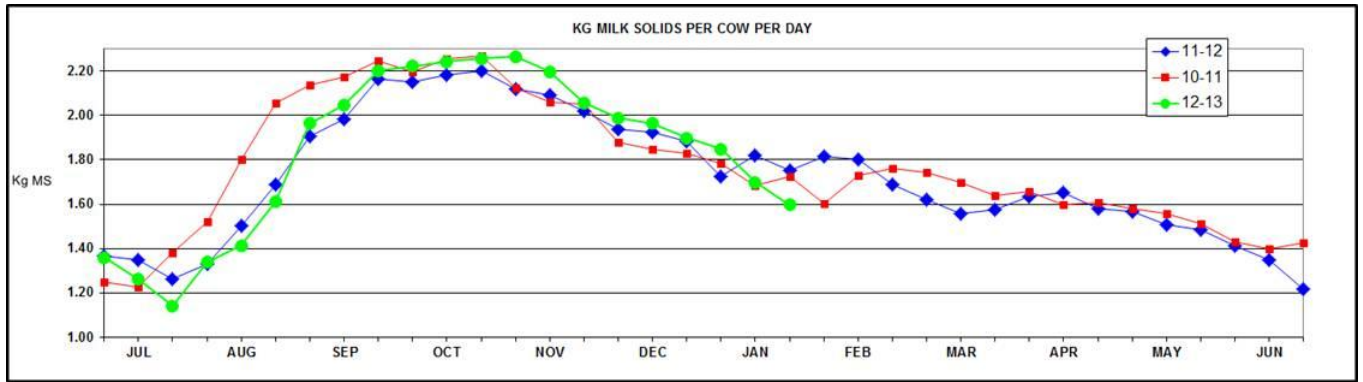
The Bulk Milk Cell Count for the week was 133,000, down from 159,000. This time last year the BMCC was 85,000.

The milk price (less compulsory levies) the MDF anticipates receiving for the week's milk is \$4.46 per kg milk solids, or 34.3 cents per litre. This time last year it was \$5.06 and 35.8.

Milk income per cow per day is down from \$7.69 to \$7.24, made up of \$2.71 for the fat (down from \$2.74), \$5.08 for the protein (down from \$5.55), and minus \$0.55 for the litres. This time last year milk income per cow per day was \$8.98.

Feed cost per cow per day (including pasture and supplements) is up from \$3.60 to \$3.68 per cow per day, leaving a Margin over All Feed (MOAF) per cow of \$3.57, down from \$4.09. This time last year the feed margin per cow was \$5.41. The margin over all feed per hectare is \$14.42. The whole farm feed margin is \$1,024, down from \$1,173 per day. This time last year the whole farm feed margin was \$1,566 per day.

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WEEKLY FEEDING PERFORMANCE	Last Year	Last week	This week	Units
Week to date:	27-Jan	18-Jan	25-Jan	
Milker graze area	70	71	71	ha
Milker nos	290	287	287	head
Stocking rate	4.1	4.0	4.0	cows/ha
Grazing allocation 1/	30	30	30	th of graze area
Average graze rest time	29	30	30	days
mm irrigation/hectare/day	3.9	4.6	5.0	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	\$0.19	\$0.00	\$0.00	\$/ha/day
Estm'd pasture consmp'n (incl cons'vd forage)	39	45	44	kg DM/ha/dy
Pasture consum'd per cow	9.5	11.1	10.9	kg DM/cow/dy
Daily spend / milking ha	\$4.56	\$5.05	\$5.35	\$/ha/day
Estm'd pasture price	\$117	\$113	\$122	\$/T DM
Conc (incl additives)supp fed/cow	7.2	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	3%	3%	3%	%
Conc (incl additives)supp avg price	\$321	\$441	\$441	\$/T DM
Hay/silage supp avg price	\$0	\$0	\$0	\$/T DM
PKE supp price	\$289	\$0	\$0	\$/T DM
Total feed intake/cow	17.0	16.3	16.1	kg DM/cow/dy
Estm'd body cond't'n change	0.10	0.00	0.07	kg LWT/cow/dy
Litres/cow	25.1	22.8	21.1	l/cow/day
Fat test	3.70%	4.11%	4.39%	%
Protein test	3.38%	3.33%	3.29%	%
Fat per cow	0.927	0.937	0.928	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	0.847	0.759	0.696	kg/cow/dy
MS per cow	1.77	1.70	1.62	kg/cow/dy
Anticipated final milk price (less levies)	\$5.06	\$4.53	\$4.46	\$/kg MS
Anticipated final milk price (/litre)	\$0.358	\$0.338	\$0.343	\$ per litre
Fat return per cow	\$2.93	\$2.74	\$2.71	\$/cow/dy
Protein return per cow	\$6.70	\$5.55	\$5.08	\$/cow/dy
Volume charge per cow	\$0.66	\$0.60	\$0.55	\$/cow/dy
Milk income/cow	\$8.98	\$7.69	\$7.24	\$/cow/dy
All feed cost/cow	\$3.58	\$3.60	\$3.68	\$/cow/dy
Margin over all Feed/cow	\$5.41	\$4.09	\$3.57	\$/cow/dy
MOAF /ha /day	\$22.24	\$16.53	\$14.42	\$/ha/day
Farm MOAF per DAY	\$1,566	\$1,173	\$1,024	\$/day
MOAF per month	\$47,750	\$35,786	\$31,228	\$/month
Energy density of diet	12.0	11.9	11.9	MJ ME/kg DM
Crude protein % of diet	18.0%	19.9%	19.9%	% CP
NDF Fibre level of diet	30.9%	33.1%	32.5%	% NDF
FCE kg MS per tonne DM food	103	103	100	
Tonne feed /day	5.0	4.7	4.7	tonne DM /day
Milk Return /tonne feed	\$520	\$467	\$446	\$/tonne DM
Average Price of feed	\$207	\$219	\$226	\$/tonne DM
Margin /tonne feed	\$313	\$248	\$220	\$/tonne DM
BMCC	85	159	133	