

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 264 (Week ending Sep 2, 2011)

The Macalister Demonstration Farm is now milking 107 cows, grazing 35 hectares, a stocking rate of 3.0 cows per hectare. Last year at this time, there were 161 milkers, and the stocking rate was 3.3 cows per hectare. The daily allocation for last week was one 45th of the grazing area, and the actual grazing rest time was 49 days.

Compared to last week, milk production per cow is up from 1.58 to 1.80 kg milk solids (MS) per cow per day. Litres per cow per day are up from 19.0 to 21.3. Milk fat test has risen from 4.57% to 4.66% (fat yield is up from 0.86 to 0.99 kg per cow per day). The protein test has risen from 3.76% to 3.78% (protein yield is up from 0.71 to 0.81 kg per cow per day). This time last year, milk production was 27.2 litres, 2.09 kg MS, 1.16 kg fat, and 0.94 kg protein per cow per day.

The daily pasture consumption from the grazing area is up from 30 to 36 kg dry matter (DM) per hectare per day. The pasture consumption per cow is up from 11.5 to 11.7 kg DM per cow per day. This time last year, pasture consumption was 43 kg DM per hectare per day, and 13.2 kg DM per cow per day.

0.9 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 \$1.62 per hectare per day. Based on those cash inputs only, the consumed pasture price is estimated to be \$46 per tonne of dry matter, down from \$56.

Supplementary concentrates include crushed wheat and minerals totalling 4.2 kg DM per cow per day, at an average price of \$337 per DM tonne. The cows have access to some oaten hay at the dairy, and eat 0.4 kg DM per day.

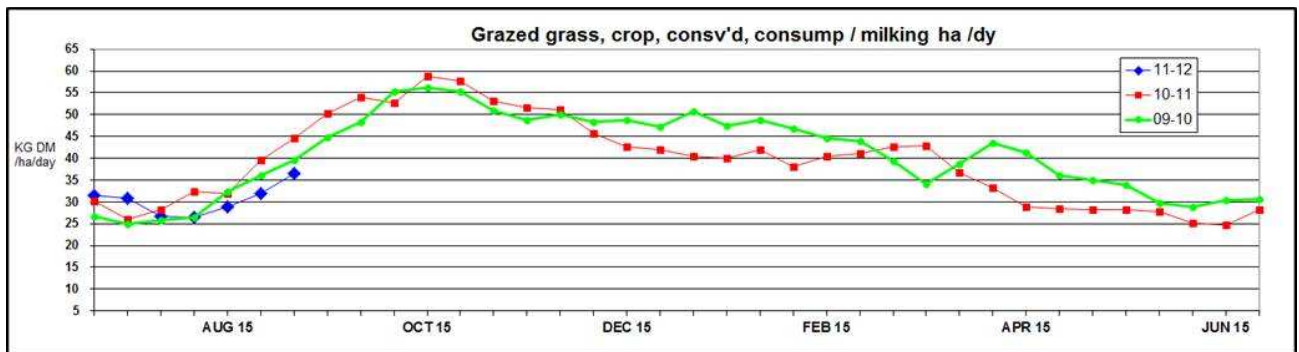
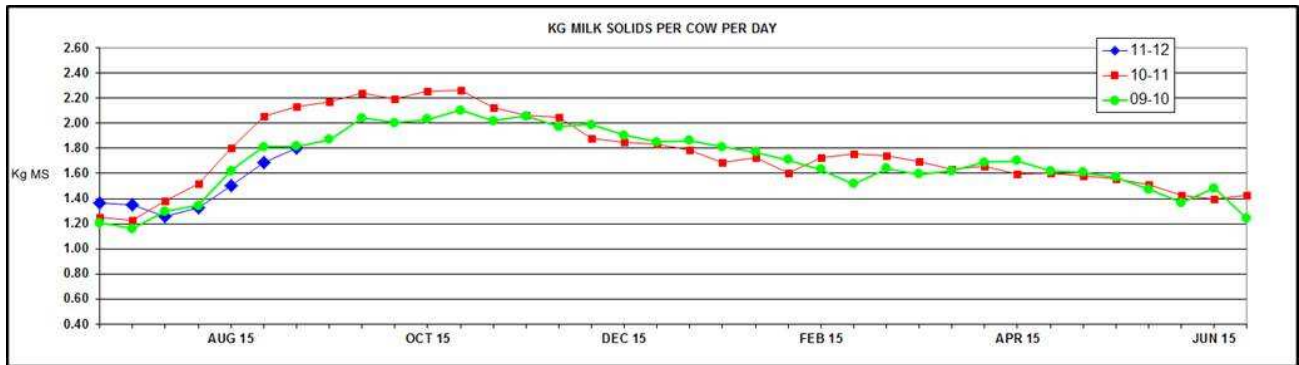
The BMCC has fallen from 170 to 136. This time last year the BMCC was 157.

The milk price (less compulsory levies) that the MDF anticipates receiving for the week is \$5.17 per kg milk solids, or 43.6 cents per litre. Milk income per cow per day is up from \$8.33 to \$9.30, made up of \$3.25 for the fat, \$6.61 for the protein, and minus \$0.56 for the litres. This time last year milk income per cow per day was \$10.59.

Feed cost per cow per day (including pasture and supplements) is down from \$2.16 to \$2.05 per cow per day, leaving a Margin over All Feed (MOAF) per cow of \$7.25, up from \$6.17 per day. The margin over all feed per hectare is \$22.04. The whole farm feed margin is \$769, up from \$367 per day. This time last year the whole farm feed margin was \$1,354 per day.

This report is coming from Gwyn Jones' dairy farm in West Sussex. He has grass galore and his 300 all-year round calving cows (great big fat Holsteins) are doing 25 litres and the current milk price is 28.5 p (about 44.5 cents).

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WEEKLY FEEDING PERFORMANCE	Last Year	Last week	This week	Units
Week to date:	03-Sep	26-Aug	02-Sep	
Milker graze area	49	23	35	ha
Milker nos	161	59	107	head
Stocking rate	3.3	2.6	3.0	cows/ha
Grazing allocation 1/	45	49	45	th of graze area
Average graze rest time	49	50	49	days
Element N/hectare/day	1.2	0.9	0.9	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)	43	30	36	kg DM/ha/day
Pasture consum'd per cow	13.2	11.5	11.7	kg DM/cow/dy
Daily spend / milking ha	\$2.06	\$1.66	\$1.62	\$/ha/day
Estm'd pasture price	\$48	\$56	\$46	\$/T DM
Conc (incl additives)supp fed/cow	4.2	4.2	4.2	kg DM/cow/dy
Hay/silage supp fed/cow	0.2	0.4	0.4	kg DM/cow/dy
PKE supp fed/cow	0.0	0.0	0.0	kg DM/cow/dy
Estim'd supp waste	4%	4%	4%	%
Conc (incl additives)supp avg price	\$356	\$337	\$337	\$/T DM
Hay/silage supp avg price	\$241	\$216	\$216	\$/T DM
PKE supp price	\$0	\$0	\$0	\$/T DM
Total feed intake/cow	17.4	16.0	16.2	kg DM/cow/dy
Estm'd body cond't'n change	-0.33	0.18	0.00	kg LWT/cow/dy
Litres/cow	27.2	19.0	21.3	l/cow/day
Fat test	4.25%	4.57%	4.66%	%

Protein test	3.44%	3.76%	3.78%	%
Fat per cow	1.157	0.864	0.993	kg/cow/dy
Protein per cow	0.937	0.712	0.807	kg/cow/dy
MS per cow	2.09	1.58	1.80	kg/cow/dy
Anticipated final milk price (less levies)	\$5.06	\$5.28	\$5.17	\$/kg MS
Anticipated final milk price (/litre)	\$0.389	\$0.440	\$0.436	\$ per litre
Fat return per cow	\$3.73	\$2.88	\$3.25	\$/cow/dy
Protein return per cow	\$7.56	\$5.94	\$6.61	\$/cow/dy
Volume charge per cow	\$0.71	\$0.50	\$0.56	\$/cow/dy
Milk income/cow	\$10.59	\$8.33	\$9.30	\$/cow/dy
All feed cost/cow	\$2.17	\$2.16	\$2.05	\$/cow/dy
Margin over all Feed/cow	\$8.41	\$6.17	\$7.25	\$/cow/dy
MOAF /ha /day	\$27.49	\$16.00	\$22.04	\$/ha/day
Farm MOAF per DAY	\$1,354	\$367	\$769	\$/day
MOAF per month	\$41,289	\$11,198	\$23,463	\$/month
Energy density of diet	12.3	12.2	12.2	MJ ME/kg DM
Crude protein % of diet	21.9%	20.2%	20.3%	% CP
NDF Fibre level of diet	33.5%	32.6%	32.7%	% NDF
FCE kg MS per tonne DM food	119	97	110	
Tonne feed /day	2.8	1.0	1.7	tonne DM /day
Milk Return /tonne feed	\$602	\$514	\$568	\$/tonne DM
Average Price of feed	\$124	\$134	\$125	\$/tonne DM
Margin /tonne feed	\$478	\$381	\$443	\$/tonne DM
BMCC	157	170	136	