

INCREASING MEAT PRODUCTION AND RETURNS FROM CULL COWS

2. POOR CONDITIONED PREGNANT COWS

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Up to 60% of cull cows are pregnant at slaughter in northern Australian abattoirs. Many are in poor body condition (subcutaneous rump fat depth **1-3mm**) and with **carcase** weights less than **160kg** (Ladds *et al* 1975) financial returns are low. An alternative may be to transfer these pregnant cows to finishing pastures (eg Central Queensland), then selling both cows and calves post calving.

This experiment **examined** cows transferred to Central Queensland and grazed on buffel grass pastures with the following treatments:

I- Initial slaughter group of pregnant cows in July.

3M- Slaughter both cows and suckling calves 3 months post calving in February.

6M- Slaughter both cows and suckling 6 months post calving in May.

EW- Calves early weaned in February onto pasture and fed a grain ration (75 % grain, 25 % concentrates) until May, with cows grazing similar pastures.

CF- Calves creep fed a grain ration (75% grain, 25 % **conc.**) with access to the cow (Feb. to May).

G- Both cows and suckling calf fed an *Ad lib* grain ration (86 % gram, 14% **conc.**) from Feb. to May.

Ration intakes for the EW and CF calves and **G** cows and calves were 4.5, 0.8 and 10.3 kg/unit/day respectively.

Table 1 Liveweight, carcase attributes and values of cows and calves at slaughter.

Treatment	Turnoff liveweight (kg)	Carcase weight (kg)	Calculated carcase gain ¹ (kg)	Rump fat depth (mm)	Carcase value (\$/head)	Total cow/calf value (\$/unit)	Benefit:Cost ratio
COWS							
I	413	186	-	5	315	315	-
3M	451	197	8	4	339	484	3.47:1
6M	460	198	7	7	342	545	3.58:1
EW	489	225	35	13	403	587	2.32:1
CF	461	189	-2	5	323	540	2.50:1
G	473	213	23	11	374	570	1.25:1
CALVES							
I	-	-	-	-	0		
3M	126	69		3	145		
6M	195	112		3	203		
EW	189	103		4	184		
CF	210	118		5	217		
G	196	106		6	196		

¹ Calculated carcase weight gain from July to February for 3M, from February to May for other treatments

The **EW** and **G** treatments resulted in heavier cow **carcases** with greater subcutaneous fat cover than other treatments (Table 1). There was little difference in the growth rates and **carcase** attributes of the treated calves, with the **EW** calves growing slowest (**0.77kg/hd/day**) and the **CF** fastest (**0.89kg/hd/day**). The greatest increase in value of the cow/calf unit of each treatment over **I** is due to the sale value of the calf. Treatments which produced a calf (**3M** and **6M**), even without greatly improving the **carcase** weight and value of the cow, improved returns and recorded the most attractive **benefit:cost** ratios. Improving cow **carcase** weights and obtaining the calf (treatments **EW** and **G**) further improved the value of the cow/calf unit. While all treatments were positive, the extra input costs of the **EW**, **G** and **CF** treatments are reflected in lower **benefit:cost** ratios.

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Ladds, P. W., Summers, P.M. and Humphrey, J.D. (1975). *Aust. Vet. J.* **51:472**.

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