

fertilizer. This may be further enhanced by the introduction of green manuring. The system will involve 20-30% of the crop for animal feeding and additional crops which do not compete significantly with the palm (Duran, 1995).

The oil palm industry, with diverse products and by-products, offers two opportunities for the promotion of animal production. Firstly, the products and by-products from the industry are valuable feed resources with the potential to be utilised for expanding animal production. Secondly, the forages in the inter-rows can be consumed by ruminants. Integrating animal production with oil palm plantations should take into account all the available resources, i.e. the products and by-products of the industry as well as the forages grown in the inter-rows (Jalaludin, 1997). This study will exploring implementations of Integration of palmfruit plantation with cattle's feedlotting.

MATERIAL AND METHOD

Sixteen steers with average of body weight $153 + 5,3$ kg were grouped into two groups. Each group consists of 8 BX steers. Control group were given forages while treatment group has feed ratios consists of stem-midrib of palm, CPO sludge and salt. Each ratios were formulated to have same dry matter percentage. They were treated 2 month. Observed parameters were dry matter consumption (%), dry matter digestibility (%), average daily gain (kg/day) and body condition score (range of 1-8).

Table 1. below describe the composition of ratios given to each group. Each group were offered ratio 2 times day⁻¹ with almost same dry matter percentage.

Table 1. Ingridient and nutrient composition of ratio

Ingridient	Control	Treatments
Forages (kg)	20	10
Palm oil Midrib-stem (kg)	-	3
Palm oil sludge (kg)	-	1
salt (g)	-	100
Composition		
Dry Matter (%)	42	41.2
Organic Matter (%)	95.3	92.6
Crude Protein (%)	6.4	5.8
Crude Fat (%)	5.2	11.8
Crude Fibre (%)	12.2	10.8
Ash (%)	4.2	7.1

RESULT AND DISCUSSION

Data shows that although control group has higher dry matter digestibility (7,91 vs 5,42 kg day⁻¹) but the percentage of dry matter consumption is lower. From calculation we could generated ratio's efficiency on treatment is insignificantly difference than ratio's control (0,38 vs 0,39), however the ADG's and BCS of treatment group is higher than control.