THE INFLUENCE OF CONCENTRATE AND MINERAL BLOCK FORMULATION ON SPECIFIC GRAVITY AND MILK FAT CONTENT OF DAIRY CATTLE

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ABSTRACT

The aim of this research is to know the influence of concentrate and mineral block formulation on specific gravity and milk fat content of dairy cattle. The research was conducted on eight cross breed Friesian Holstein cows with ± 450 kg body weight and aged 2-4 years with milk production 8-11 liter / head / day. The experimental design study was completely randomized design with two treatment and each treatment was repeated four times : P0 (grass, tofu waste) and P1 (grass, tofu waste, formulation concentrate, formulation mineral block). The data was analysed using independent sample t test and the software that was used to analysed the data is Statistical Program for Social Science (SPSS) version 20 for Windows. The results showed that concentrate feeding and mineral block did not significantly affect the specific gravity of milk and milk fat (p > 0.05). The mean density of milk in the combination of feed P0 is 1.0255 and in the combination of feed P1 is 1.0253. Meanwhile the average milk fat content in the combination of feed P0 is 3.27% and in the combination of feed P1 is 3.45%.

Keywords: formulation concentrate, formulation mineral block, specific gravity, fat content, dairy cows