

ẢNH HƯỞNG CỦA VIỆC SỬ DỤNG KHÔ DẦU DỪA VÀ CỎ VOI Ủ CHUA TRONG KHẨU PHẦN ĐẾN KHẢ NĂNG SẢN XUẤT, PHÁT THẢI KHÍ MÊTAN TỪ ĐẠ CỎ Ở BÒ THỊT

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ABSTRACT

Effects of coconut expeller and elephant grass silage in the diets on performance and enteric methane emission of beef cattle

The aim of this study was to determine effects of coconut expeller and elephant grass silage in the diet on feed intake, nutrient digestibility, live weight gain and enteric methane (CH₄) emission of beef cattle.

Total 12 crossbred (Charolais x Laisind) crossbred cattle with initial body weight of 357.7 ± 10.3 kg (mean ± SD) were arranged in a completely randomized design of two factors. The first factor was with or without 10% coconut expeller in the concentrate, and the second factor was either fresh or silage elephant grass as a dietary forage source in diets.

Results showed that feed intake, nutrient digestibility and live weight gain of cattle were not significantly affected by using coconut expeller in the concentrate, fresh or silage elephant grass as a dietary forage source, and the interaction between the use of coconut expeller and type of elephant grass. Enteric CH₄ emission of cattle fed the concentrate with 10% of coconut expeller was 419.7 l/day, 9.35% lower than that of diet without the coconut expeller. Enteric CH₄ emission of cattle fed elephant grass silage was 423.2 l/d, 7.9% lower than that of cattle fed fresh elephant grass. No significant interaction effects between using coconut expeller in the concentrate and type of elephant grass on enteric CH₄ emission of cattle were found.

Key words: *Coconut expeller, grass silage, performance, methane emission*