

Performance and Economics of Goats Fed Poultry Litter and Rumen Content

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Abstract : The study was conducted to evaluate the growth performance and nutrients utilization using 20 entire males of Sahelian goats fed Rumen content (fore-stomach digest) and poultry litter waste (PLW) at various levels of inclusion. The experimental animals were randomly allocated to diet A (Control), B (10% each of FSD and PLW), C (6.67%PLW and 13.33 FSD) and D(13.33% PLW and 6.67% FDS) at the rate of five animals per treatment. After 90 days of feeding trial, It was observed that Diets D had best feed intake and body weight gain which might be due to the good palatability of PLW and less odour of FSD in the diet. Diet C had the least feed cost then followed by diet B and while diet A(control) was more expensive than other treatments. There was the significant difference ($P < 0.05$) between the treatments in the cost of daily feed consumption. Treatment A had the highest value while treatment C recorded the lowest cost of daily feed consumption. There was no significant difference ($P > 0.05$) between all treatments in terms of Cost of feed kg/ live weight gain, where treatment B had the highest value while the lowest obtained in treatment D. However, it is recommended that more research trial should be carried out to ascertain the true value of incorporating poultry litter waste and fore-stomach digest.

Keywords : poultry litter, rumen content, weight gain, economics

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