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ABSTRACTS

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Effects of supplemented diets with garlic organic extract and streptomycin sulphate on intestinal microflora and nutrients digestibility in broilers	 concluded that the non-genetic factors had exerted significant effects on the reproductive performance of Fogera Cattle breed, great effort should be made towards mitigating negative impacts of those non-genetic factors. Keywords: Age at first calving, calving interval, days open, Fogera cattle, gestation length Original Research, A16 Dieumou, F.E., Tegui A., Kuiate, J.R., Tamokou, J.D., Doma, U.D., Abdullahi, U.S., Chiroma, A.E. Online J. Anim. Feed Res., 1(3): 107-113.2011. ABSTRACT: This experiment was carried out to study the effects of garlic organic extract and streptomycin sulphate on intestinal microflora and nutrients digestibility in broilers. Forty eight Hubbard line one day old chicks with equal numbers of males and females were randomly divided into four treatments to conduct a 4x2 factorial experiment in a completely randomised design. The diets were supplemented with: no supplement (control), garlic organic extract at 40 ppm/kg (GOE 40ppm), garlic organic extract at 60 ppm/kg (GOE 60ppm) and streptomycin sulphate at 30 ppm/kg (SS 30ppm) administered by oral gavage from day 13 to day 47 of experiment. There were two birds (males or females) per experimental unit, replicated three times in twenty four deep litter pens. The colony forming units of Escherichia coli were significantly lower (P<0.001). The colonies of Salmonella and Shigella spp were statistically similar between streptomycin sulphate and garlic organic extract treated groups (1.65 x 10⁵). but they were significantly (P<0.001) in duced or paper digest of birds on streptomycin sulphate (3.33 x 10⁵) followed by the garlic organic extract treated groups (1.65 x 10⁵). But they were significantly (P<0.001) in the ileo-cæcal digesta of birds on streptomycins auron directeriaceae, Salmonella and Shigella spp and Staphylococcus aureus in their ileo ceal digesta than the males. Even within the treatment and sex interaction, female birds generally (P<0.001) forming units a co	
Influence of the nature of the energy source in the concentrate on the concentration and molar proportions of volatile fatty acids in rumen of sicilo- sarde sheep breed.	digestibility, streptomycin sulphate. Original Research, A17 Selmi, H., Tibaui, G., Ben Gara, A., Jemmali, B., Rekik, B. and Rouissi H. 2011. Online J. Anim. Feed Res., 1(3): 114-120. ABSTRACT: The effect of the nature of the source of energy supplementation on ruminal pH, concentration of volatile fatty acids (VFA) and the proportions of the main acids in the rumen of the dairy Sicilo-Sarde breed were evaluated. Four rams with an average live weight at the beginning of the experience of 45.25 ± 3.5 kg and aged $4.8 \pm$ 0.5 years, fitted with permanent cannulas in the rumen were used in this experiment. The animals had a common basal diet at 1.5 kg DM / head / day of oat hay supplemented in turn by four concentrate at 500 g / head / d. Concentrates differed by the nature of energy ingredients they contain. The concentrate A: included 10% barley, 43.3% corn, 25% wheat bran, 17.7 % soybean meal and 4% CMV; the concentrate B was made of 66% white sorghum, 30 % beans and 4% CMV; the concentrate C had 71% triticale, 18% horse bean, 7% soybean meal and 4% CMV; and finally the D concentrate included 71.5% barley, 17.5% field bean, 7% soybean meal, and 4% CMV. 50 ml samples were taken before, 2, 5 and 8 hours after the distribution of the morning meal, and were filtered through four layers of surgical gaze. These samples were used for the analysis of volatile fatty acids (VFA) concentrates. It was in favour of C and D (P<0.05) concentrates but it has stabilized at the end of the day (P>0.05). The concentration of total VFA was significantly higher (P<0.05) for diets C and D just after the distribution of the meal before it became comparable (P>0.05) among concentrates after 5 and 8 hours post prandial. The proportion of acetate and butyrate (C2 and C4) acids evolved in the same way during the day regardless of the regimen but were in a reversed manner for the propionic acid (C3). Keywords: Acetate, butyrate, supplements, energy source, pH, propionate	PPPF

Reproductive performance of Rahmani and Chios sheep and their lambs under Upper Egypt conditions



Original Research, A18

Abd-Allah, M., Abass, S.F., Allam, F.M. Online J. Anim. Feed Res.,1(3): 121-129.2011.

ABSTRACT: The differences of fertility and prolificacy traits for Rahmani and Chios ewes were studied in this investigation. The study was conducted during two consecutive years that included three lambing season with a total of 273 ewes (162 Rahmani and 111 Chios) bred, 230 ewes lambing, 280 lambs born and 237 lambs weaned. Breed of ewes had a significant effect on fecundity, lambing rate and weaning rate. Mating season and year did not significantly affect fertility traits. Age of ewes had a significant effect on fecundity, lambing rate and weaning rate. Mating season and year did not significantly affect fertility traits. Age of ewes had a significant effect on fecundity, lambing rate and weaning rate. Breed of ewes had a significant (P<0.01) effect on prolificacy traits. Mating season and year had no significant effect on prolificacy traits. Age of ewes had a significant effect on prolificacy traits. Age of ewes had a significant effect on prolificacy traits, except litter weight at weaning, Chios ewe lambs reached puberty and maturity at younger age and they had heavier body weight than Rahmani ewe lambs. The effects of birth type and weaning system on reproductive traits of ewe lambs were not significant. Early weaned lambs, birth type and weaning system had no significant on age and weight at puberty of ram lambs, except age at puberty which was significantly affected (P<0.05) by weaning system.

Keywords: Reproductive performance, Rahmani sheep, Chios sheep, puberty, sexual maturity.

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