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Annals of Biological Research

Abstract

[Effect of genotype, stage of lactation, season and parity on milk](#)

composition of goat, in Mubi, Adamawa State, Nigeria

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Three most common breed of goats; Sokoto Red (SR), Sahel goat (SG), and West African dwarf (WAD) in Mubi were studied to investigate the effect of breed, stage of lactation, season and parity on milk composition. Significant ($P < 0.001$) breed variations were recorded on crude protein, (CP), Fat (F), and lactose (L) content. Highest ($3.84 \pm 0.03\%$) CP content value was observed on SR and least ($3.27 \pm 0.04\%$) on WAD, SG however recorded highest ($5.16 \pm 0.02\%$) fat content and least ($4.38 \pm 0.02\%$) on SR while on lactose content, SR had the highest ($4.90 \pm 0.03\%$) and least ($4.29 \pm 0.04\%$) was on WAD goat. Stage of lactation was also found to influence CP, fat and lactose level of milk with highest contents during colostrum stage as follows; ($3.85 \pm 0.04\%$), ($5.35 \pm 0.03\%$) and ($5.02 \pm 0.04\%$) respectively. Least content of CP (3.20 ± 0.04), fat ($4.13 \pm 0.03\%$) and lactose ($4.07 \pm 0.04\%$) were noted to be at the end of lactation. Significant ($P < 0.001$) seasonal difference was evident on fat and lactose levels with highest values during wet season ($5.04 \pm 0.02\%$ and $4.85 \pm 0.03\%$ respectively). Like the seasonal effect, parity had seasonal effect only on fat and lactose content of milk with third parity having the highest values ($5.54 \pm 0.03\%$ and 5.30 ± 0.05 respectively). Generally proper husbandry practices will improve milk production and composition in goats.

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