

COMPARATIVE EVALUATION OF MILK OF WEST AFRICAN DWARF AND RED SOKOTO GOATS

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ABSTRACT

Sixteen West African Dwarf (WAD) and Red Sokoto (RS) does were milked once a week for twelve weeks commencing from two days after kidding. Milk samples were analysed for total solids, fat, lactose, protein, ash, phosphorus and calcium. The mean ($X \pm SE$) composition (%) of the colostrum of WAD and RS was: Total solids, (TS) 19.06 ± 1.20 and 18.86 ± 1.20 ; protein, 6.84 ± 0.61 and 8.96 ± 0.61 ; fat, 7.92 ± 0.35 and 7.87 ± 0.35 ; ash 0.78 ± 0.02 and 1.14 ± 0.02 ; lactose, 3.30 ± 0.16 and 3.67 ± 0.16 ; (g/100g) calcium (Ca), 77.39 ± 6.04 and 73.88 ± 6.04 ; phosphorus (p), 73.50 ± 4.44 and 149.05 ± 4.44 and respectively; The colostrum of WAD goats contained significantly higher protein. ($P < 0.05$), phosphorus ($P < 0.05$) and ash ($P < 0.05$) than those of RS goats. The contents (%) of mature milk of WAD and RS goats ($X \pm SE$) were: TS, 16.48 ± 0.37 and 16.33 ± 0.37 ; protein, 5.29 ± 0.17 and 4.77 ± 0.17 ; fat, 4.73 ± 0.16 and 4.69 ± 0.16 ; ash 0.69 ± 0.04 and 0.64 ± 0.04 ; lactose, 3.87 ± 0.24 and 4.22 ± 0.24 ; (g/100g) Ca 58.41 ± 2.32 and 62.00 ± 2.32 ; P, 59.87 ± 1.78 and 142.65 ± 177 ; and 8-h milk yield, 52.57 ± 2.74 and 58.55 ± 2.83 ml, respectively. The mature milk of WAD goats also contained significantly higher protein and phosphorus than that of RS goats.