Journal of Animal & Plant Sciences, 2011. Vol. 10, Issue 2: 1276- 1282.
Publication date: 30/5/2011, http://www.biosciences.elewa.org/JAPS; ISSN 2071 - 7024

The effect of *Leucaena* leaf supplementation to maize residues on village goat performance

Fasae O.A. [+], Adesope A.I. and Ojo V.O.A.*
Department of Animal Production and Health, University of Agriculture, P.M.B. 2240, Abeokuta, Nigeria.
**Department of Pasture and Range Management, University of Agriculture, Abeokuta, Nigeria.*
[+] Corresponding author email: animalexp@yahoo.co.uk
Keywords: West African Dwarf goat, supplementation, maize residues, Leucaena, weight gain

1 SUMMARY

The maize producing areas in the south west Nigeria offers some potential for raising goatsAA 56 day feeding trial studied the effect of Leucaena leaf supplementation on maize residues on goats. Twenty West African Dwarf goats randomly selected from a village herd were stratified according to their weight, and then randomly allocated to four dietary treatments namely: village feeding (VF) containing free ranging with crop residues supplementation, village feeding with maize residues (VF+MR), village feeding with dried Leucaena leaves (VF+LL), village feeding, maize residues and *Leucaena* leaves (VF+MR+LL) for diets 1 to 4, respectively. Leucaena leaf supplementation significantly increased ($P < 0.05$) the Dry Matter intake and body weights of goats. Diet 4 containing (VF+MR+LL) produced the best performance for optimum growth of goats. *Leucaena* leaves could therefore play a valuable role in supplying supplemental nitrogen to goats fed maize residues under the village system of management.