

**B-89 : EFFECT OF POULTRY LITTER ON YIELD AND FEEDING
VALUE OF GUINEA "A" GRASS (*Panicum maximum* JACQ.)**

S Premaratne, A P Mallika; Faculty of Agriculture, University of Peradeniya.

An experiment was conducted to study the effect of poultry litter nitrogen on dry matter yield and feeding value of Guinea "A" grass (*Panicum maximum* Jacq.), in the mid country wet zone of Sri Lanka.

Four levels of nitrogen, namely, 0, 150, 300 and 450 kg/ha/yr were applied as poultry litter after each harvest as a split application. Guinea grass was harvested every month and fresh weights were recorded. Sub samples were taken to measure the dry matter percentage, crude protein, leaf to stem ratio and disappearance of dry matter and organic matter.

According to the results, application of nitrogen increased (P) the dry matter yield of Guinea 'A' grass and the highest value was recorded with 450 kg N/ha/yr. However, nitrogen application did not have any significant effect on the crude protein content, leaf to stem ratio, dry matter degradation and organic matter degradation of Guinea grass.