B-110: Effect of poultry litter nitrogen on dry matter yield and quality of Guathamala grass *(Tripsacum laxum)* in the mid country

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An experiment was conducted to study the effect of poultry litter nitrogen on yield and feeding value of Guathamala grass *(Tripsacum laxum)* in the mid country of Sri Lanka. Three levels of nitrogen namely 0, 100, and 200 kg N/ha/year were applied as poultry litter after each harvest as a spilt application. Guathamala grass was harvested at 6 week interval and fresh weights were recorded. Representative sub-samples were taken to measure the dry matter %, crude protein % (CP), leaf to stem ratio, *in vitro* dry matter digestibility (IVDMD) and *in vitro* organic matter digestibility (IVOMD).

According to the results, application of nitrogen increased ($p < 0.05$) the dry matter yield and leaf to stem ratio of Guathamala grass and the highest dry matter yield was recorded with 200 kg N/ha/year. However, nitrogen application did not have any significant effect on the CP, IVDMD, and IVOMD of Guathamala grass.