EFFECT OF LEAF CLIPPING AND NITROGEN FERTILIZER ON GROWTH AND YIELD OF MUNGBEAN

Marjana Yeasmin*

Executive Summary

Mungbean is a source of protein and essential micro nutrients. It can fix atmospheric nirogen and improve soil fertility but production is extremely insufficient. An experiment was conducted at the research plot of the Sher-e-Bangla Agricultural University farm, Dhaka during the period of July 2018 to October 2018 to study the effect of leaf clipping and nitrogen fertilizer on growth and yield of Mungbean. In this experiment, the treatment consisted of two leaf clipping viz. C_0 = No. leaf clipping (Control), C_1 = Leaf clipping (Removal of leaves having no inflorescence) and five nitrogen doses viz. N_0 = 0 kg N ha^{-1}, N_1 = 25 kg N ha^{-1}, N_2 = 50 kg N ha^{-1}, N_3 = 75 kg N ha^{-1}, N_4 = 110 kg N ha^{-1}. The experiment was laid out in a split-plot design having three replications. Data on different growth parameters, physiological parameters and yield contributing parameters of Mungbean were recorded. The collected data were statistically analyzed for evaluation of the treatment effect. A significant variation among the treatment was found while different level of leaf clipping and with different doses of nitrogen. The longest pod length (9.06 cm), the highest number of pod $plant^{-1}$ (10.67), highest number of seeds pod^{-1} (12.7), maximum weight of 1000-seed (47.64g), the highest seed yield (1.34 ton ha^{-1}) were recorded in C_1N_2 (50 kg N ha^{-1} with leaf clipping) The highest seed yield (1.34 ton ha^{-1}) was obtained from 50 kg N ha^{-1} and leaf clipping (C_1N_2). So, this treatment combination (C_1N_2) can be treated as the best treatment combination under the present study.

*Assistant Professor, Dept. of Agronomy, SAU, Dhaka.