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Effect of different solid and liquid forms of organic manure on growth and yield of soybean [*Glycine max* (L.) Merrill]

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ABSTRACT : Field experiment was carried out during the *Kharif* season of 2012-13 at the Crop Research Farm, Department of Agronomy (SHIATS Model Organic Farm, Block-E) Allahabad School of Agriculture, SHIATS, Allahabad (U. P.) to evaluate the effect of different solid and liquid forms of organic manure on growth and yield of soybean. The experiment was laid out in Randomized Block Design with three replications. The treatment consisted of three sources of solid (Vermicompost 2.6 t ha⁻¹, Farm yard manure 16 t ha⁻¹ and Poultry manure 2.2 t ha⁻¹) and liquid (*Panchgavya* and fish amino acid) forms of organic manures and two cultivars (JS 335 and JS 95-60). The experimental results revealed that FYM + *Panchgavya* + variety JS 335 recorded at all stages (growth stages) maximum plant height (47.26), number of branches plant⁻¹ (10.46), dry weight (21.33), crop growth rate (44.43) and stover yield (3876.66 kg ha⁻¹). There were significant difference between treatments, except relative growth rate (0.03) at 60-75 days interval and seed yield (2198.33 kg ha⁻¹).

KEY WORDS : Organic farming, Farm yard manure, Vermicompost, *Panchgavya*, Variety JS 335, CGR

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