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Response of garden bean to organic manures and biofertilizers on growth, yield and quality attributes

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ABSTRACT : The response of garden bean variety Konkan Bushan to organic manures along with biofertilisers as a substitute to chemical fertilizers was studied at olericulture unit, Department of Horticulture, Faculty of Agriculture, Annamalai University. Among the treatments tested inoculation of *Rhizobium* and Vesicular arbuscular mycorrhizae (VAM) along with vermicompost and vermiwash yielded better than uninoculated and controlled treatments. As a result of increased nutrient uptake, nodulation and biological nitrogen fixation of *Rhizobium*, colonization of VAM and supplementation of nutrients through vermiwash and vermicompost derived from vegetable waste was found to be superior. Earliness in flowering was observed in the treatment Pressmud based vermicompost, VAM, *Rhizobium* along with vermiwash. The treatment supplied with *Rhizobium* and VAM along with flower waste vermicompost and spraying of vermiwash registered highest protein content. The treatment which received with pressmud based vermicompost, biofertilizer and vermiwash recorded highest fibre content. These result indicate that the garden bean being responds very well for inoculation of *Rhizobium*, VAM and vermicompost and its wash for providing all necessary nutrients in available form.

KEY WORDS : Garden bean, *Rhizobium*, VAM, Vermiwash, Pressmud, Vegetable waste based vermicompost

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