

Effect of combined application of composted pressmud, coirpith and farmyard manure on the yield and growth characteristics of green gram (*Vigna radiata* L.)

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SUMMARY

A field experiment was carried out at Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore for assessing the effect of composted coirpith, composted pressmud, farmyard manure and NPK on vegetative and yield parameters of green gram (*Vignaradiata* L.). On 25th day after sowing a significant increase in root length in T₂(composted coirpith), shoot length in T₅ (NPK 100%), number of leaves in T₇ (composted pressmud+50%NPK), number of nodules in T₄(FYM), fresh weight in T₁₀(composted pressmud+25%NPK) and dry weight in T₁₁(FYM + 25%NPK) was noted. On 45th day an increase in root length in T₁₀(composted pressmud+25%NPK), shoot length in T₆(composted coirpith + 50%NPK), number of leaves in T₃(composted pressmud), number of nodules in T₄(FYM), number of flowers in T₈(FYM + 50%NPK), fresh weight in T₈(FYM + 50%NPK), dry weight in T₈(FYM + 50%NPK) was observed. On 55th day a significant increase in root length in T₅(NPK 100%), shoot length in T₃ (composted pressmud), number of nodules in T₃(composted pressmud), number of fruits in T₆(composted coirpith + 50%NPK), fresh weight and dry weight in T₁₂(composted coirpith + composted pressmud + FYM) was observed. There was an increase in yield parameters number of pods/plant was increase in T₁₁(FYM +25%NPK), length of pods in T₁₀(composted pressmud + 25%NPK), weight of pods in T₁₀(composted pressmud+25%NPK), number of seeds / pod in T₅(NPK 100%), weight of seeds/pod in T₈(FYM + 50%NPK), pods fresh weight in T₁₀(composted pressmud +25%NPK) and pods dry weight in T₂(composted coirpith). The positive effect obtained from composted coirpith, composted pressmud and farmyard manure in this study favour the recycling of agrowastes for sustainable crop production.

Key Words : Green gram, Composted coirpith, Composted pressmud, Farm yard manure

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