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

ANJU SINGH AND A.VIJA YALAKSHMI

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 (Vigna radiata L.). On 25th day after sowing a significant increase in root length in T2, shoot length in T4 (NPK 100%), number of leaves in T1 (composted pressmud+50% NPK), number of nodules in T5 (FYM), fresh weight in T6 (composted pressmud +25% NPK) and dry weight in T7 (FYM + 25% NPK) was noted. On 45th day an increase in root length in T8 (composted pressmud +25% NPK), shoot length in T9 (composted coirpith + 50% NPK), number of leaves in T10 (composted pressmud), number of nodules in T11 (FYM), number of flowers in T12 (FYM + 50% NPK), fresh weight in T13 (FYM + 50% NPK), dry weight in T14 (composted coirpith + 50% NPK) was observed. On 55th day a significant increase in root length in T15 (NPK 100%), shoot length in T16 (composted pressmud), number of nodules in T17 (composted pressmud), number of fruits in T18 (composted coirpith + 50% NPK), fresh weight and dry weight in T19 (composted coirpith + composted pressmud + FYM) was observed. There was an increase in yield parameters number of pods/plant was increase in T20 (FYM +25% NPK), length of pods in T21 (composted pressmud + 25% NPK), weight of pods in T22 (composted pressmud +25% NPK), number of seeds / pod in T23 (NPK 100%), weight of seeds/pod in T24 (FYM + 50% NPK), pods fresh weight in T25 (composted pressmud +25% NPK) and pods dry weight in T26 (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


Article chronicle: Received : 11.12.2012; Revised : 03.06.2013; Accepted : 21.06.2013